CAPITAL SECURITY PROJECT
THEODORE LEVIN U.S. COURTHOUSE
CONSTRUCTION DOCUMENTS

231 WEST LAFAYETTE
DETROIT, MI 48226

AE# 1905-28

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Controlled by: GSA, Seth LaRocque, seth.larocque@gsa.gov, 312-505-6393

ARCHITECT
G.H. FORBES ASSOCIATES
816 E. 4TH STREET
ROYAL OAK, MI 48067

HISTORIC PRESERVATION
DESIGNSMITHS
200 E DIVISION STREET
ROCKWOOD, MI 49341

MECHANICAL, ELECTRICAL, LIGHTING, PLUMBING
PETER BASSO ASSOCIATES
5145 LIVERNOIS ROAD #100
TROY, MI 48098

STRUCTURAL
WISS, JANNEY, ELSTNER ASSOCIATES
30700 TELEGRAPH ROAD #3580
BINGHAM FARMS, MI 48025

FIRE PROTECTION
JENSEN HUGHES
475 BOND STREET, SUITE 120
LINCOLNSHIRE, IL 60069

HAZARDOUS MATERIAL ENGINEERING
WILLEM ENVIRONMENTAL CONSULTING
344 E. HAZELHURST STREET
FERNDALE, MI 48220

VERTICAL TRANSPORTATION
VERTRAN ENTERPRISES
14 OAK COURT
ANNAPOLIS, MD 21401

INTERIOR DESIGN
ISCG
612 NORTH MAIN STREET
ROYAL OAK, MI 48067

ABBREVIATIONS

A.B.	ANCHOR BOLTS
A.C.T.	ACOUSTICAL CEILING TILE
ADDN.	ADDITIONAL
ADJ.	ADJACENT
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
A.H.J.	AUTHORITY HAVING JURISDICTION
A.H.U.	AIR HANDLING UNIT
ALT.	ALTERNATE
ANCH.	ANCHOR
A.N.S.I.	AMERICAN NATIONAL STANDARDS INSTITUTE
A.P.	ACCESS PANEL
APPROX.	APPROXIMATE
ARCH.	ARCHITECT, ARCHITECTURAL
A.S.T.M.	AMERICAN SOCIETY FOR TESTING MATERIALS
B.A.S.	BUILDING AUTOMATION SYSTEM
B/B	BACK TO BACK
B.C.	BOTTOM CHORD
B.E.	BOTTOM ELEVATION
BET.	BETWEEN
B.F.	BARRIER FREE
B.F.F	BELOW FINISHED FLOOR
BLDG.	BUILDING
BLK.	BLOCK
BM.	BEAM
B.O.S.	BOTTOM OF STEAL
BOTT.	BOTTOM
BRCG.	BRACING
BRG.	BEARING
BRKT.	BRACKET
BSMT.	BASEMENT
BULL.	BULLETIN
C.	CHANNEL OR CONDUIT
C/C	CENTER TO CENTER
CERT.	CERTIFIED
C.G.	CORNER GUARD
CHKD. PL.	CHECKERED PLATE
C.J.	CONSTRUCTION/CONTROL JOINT
C.L.	CENTER LINE
CLG.	CEILING
CLR.	CLEAR
CM.	CENTIMETER
C.M.U.	CONCRETE MASONRY UNIT
CNVR.	CONVEYOR
COL.	COLUMN
CONN.	CONNECT/CONNECTION
CONSTR.	CONSTRUCTION
CONT.	CONTINUATION/CONTINUOUS
CONTR.	CONTRACTOR
COV.	COVER
CTR.	CENTER
DEG.	DEGREE
DEMO	DEMOLITION
DET.	DETAIL
D.H.	DOOR HEADER
DIA.	DIAMETER
DIAG.	DIAGONAL
DIM.	DIMENSION
D.J.	DOOR JAMB
DN.	DOWN
D.O.	DOOR OPENING
DN.	DOOR
D.S.	DOWN SPOUT
DWG.	DRAWING
DWL.	DOWEL
EA.	EACH
E.J.	EXPANSION JOINT
EL.	ELEVATION
ELEC.	ELECTRICAL
EMB.	EMBEDMENT
EQ.	EQUAL
EQUIP.	EQUIPMENT
EQUIV.	EQUIVALENT
E.W.	EACH WAY
EXC.	EXCAVATED
EXP.	EXPANSION
EXP.B.	EXPANSION BOLT
(E)	EXISTING
EXIST.	EXISTING
EXT.	EXTERIOR
F/F	FACE TO FACE
F.D.	FLOOR DRAIN
FDN.	FOUNDATION
F.F.E.	FINISH FLOOR ELEVATION
FIN.	FINISH, FINISHED
FL.	FLOOR
F.S.	FAR SIDE
FT.	FEET
FTG.	FOOTING
FUT.	FUTURE
GA.	GAGE
GALV.	GALVANIZED
G.C.	GENERAL CONTRACTOR
GEN.	GENERAL
G.L.	GIRT LINE
GRAT.	GRATING
GRT.	GROUT
GWB.	GYPSUM WALL BOARD
H.	HIGH
HGR.	HANGER
H.A.	HOLLOW METAL
HT.	HEIGHT
HORIZ.	HORIZONTAL
H.P.	HIGH POINT
H.R.	HANDRAIL
H.S.	HIGH STRENGTH
I.D.	INSIDE DIAMETER
I.E.	INVERT ELEVATION
IN.	INCHES
INCL.	INCLUDE, INCLUDING
INFO.	INFORMATION
J.C.	JANITOR'S CLOSET
JT.	JOINT
K.B.	KNEE BRACE
K.O.P.	KNOCK OUT PANEL
K.P.	KICK PLATE
L.	LENGTH
LAD.	LADDER
LAM.	LAMINATE
LAV.	LAVATORY
LB.	POUND
LEV.	LEVEL
L.F.	LINEAR FEET
LG.	LONG
LGTH.	LENGTH
L.H.	LOUVER HEAD
L.J.	LOUVER JAMB
L.L.	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
L.O.	LOUVER OPENING
L.P.	LOW POINT
L.S.	LOUVER SILL
LVR.	LOUVER
M	METER
MACH.	MACHINE
MAINT.	MAINTENANCE
MAS.	MASONRY
MAX.	MAXIMUM
MECH.	MECHANICAL
MET.	METAL
MEZZ.	MEZZANINE
MFR.	MANUFACTURER
M.I.	MISCELLANEOUS IRON
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MM.	MILLIMETER
M.O.	MASONRY OPENING
M.R.A.C.T.	MOISTURE RESISTANT
M.T.	METRIC TON
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
NOM.	NOMINAL
N.S.	NEAR SIDE
N.T.S	NOT TO SCALE
O/O	OUT TO OUT
O.D.	OUTSIDE DIAMETER
OHD.	OVERHEAD
OPNG.	OPENING
OPP.	OPPOSITE
OPP. HD.	OPPOSITE HAND
P-LAM	PLASTIC LAMINATE
PAR.	PARALLEL
PC.	PIECE
P/C	PRECAST
P.C.F.	POUNDS PER CUBIC FOOT
PEN.	PENETRATION
PH.	PHASE
PL.	PLATE
PLWD.	PLYWOOD
PREFAB.	PREFABRICATION
PROJ.	PROJECT, PROJECTION
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
PT.	POINT
QTY.	QUANTITY
RAD.	RADIUS
R.C.P.	REFLECTED CEILING PLAN
R	RISER
R.D.	ROOF DRAIN
RTU	ROOF TOP UNIT
REF.	REFERENCE
REFL.	REFLECTED
REINF.	REINFORCEMENT
REM.	REMOVABLE
REQD.	REQUIRED
R.R.	RAILROAD
RM.	ROOM
SCHED.	SCHEDULE
SECT.	SECTION
S.F.	SQUARE FEET
SGL.	SINGLE
SHT.	SHEET
SIM.	SIMILAR
SP.	SPACE
SPEC.	SPECIFICATIONS
SQ.	SQUARE
S.S.	STAINLESS STEEL
SSTL.	STRUCTURAL STEEL
STAGG.	STAGGERED
STD.	STANDARD
STIFF.	STIFFENER
STL.	STEEL
STL. PL.	STEEL PLATE
STRUCT.	STRUCTURAL
SUPP.	SUPPORT
SURF.	SURFACE
SYM.	SYMMETRICAL
T	TREAD
T&B	TOP AND BOTTOM
T.C.	TOP CHORD
T/E	TOP OF EAVE OR PARAPET STEEL
TEMP.	TEMPERATURE, TEMPORARY
THD.	THREAD
THK.	THICKNESS
T.L.	TOTAL LOAD
T/M	TOP OF MASONRY
T.O.F.	TOP OF FOOTING
T/STL.	TOP OF STEEL
T/S	TOP OF SLAB
TYP.	TYPICAL
U/S	UNDERSIDE
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
V.C.T.	VINYL COMPOSITE TILE
W/	WITH
W/O	WITHOUT
WD.	WOOD
W.H.	WINDOW HEAD
W.J.	WINDOW JAMB
W.O.	WINDOW OPENING
WPT.	WORKING POINT
W.S.	WATER STOP
WT.	WEIGHT
YD.	YARD
ZC.	ZINC COATED

KEY PLAN

GRAPHIC SCALE

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
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DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

STAMP OR SEAL

OWNER IDENTIFICATION

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

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E102	FIRST FLOOR - SOUTH FORT STREET ELECTRICAL PLAN
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Grand total: 204

KEY PLAN

GRAPHIC SCALE

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
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DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

STAMP OR SEAL

OWNER IDENTIFICATION

General Services Administration
Public Buildings Service
Great Lakes

Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

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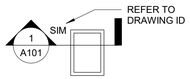
APPLICABLE CODES, REGULATIONS AND STANDARDS TO BE USED FOR CONSTRUCTION INCLUDE, BUT ARE NOT LIMITED TO:

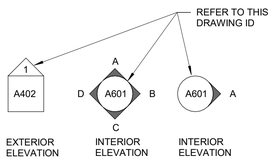
- INTERNATIONAL BUILDING CODE, 2021
- INTERNATIONAL MECHANICAL CODE, 2021
- INTERNATIONAL PLUMBING CODE, 2021
- INTERNATIONAL EXISTING ELECTRICAL CODE, 2021
- INTERNATIONAL ENERGY CONSERVATION CODE, 2021
- INTERNATIONAL FIRE CODE, 2021
- NATIONAL ELECTRICAL CODE, 2020
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES, NFPA 101 - 2021, NFPA 13 - 2019, NFPA 72 - 2019, NFPA 70 - 2020
- ASHRAE HANDBOOKS AND STANDARDS FOR HVAC, ASHRAE 90.1, 2019 ENERGY STANDARD
- SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION STANDARDS, 2019
- ASHRAE/ANSI 135 BACnet:A DATA COMMUNICATION PROTOCOL FOR BUILDING AUTOMATION AND CONTROL NETWORKS, 2016
- AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE 7 WITH SUPPLEMENT 1), 2016
- AMERICAN SOCIETY OF CIVIL ENGINEERS SEISMIC EVALUATION OF EXISTING BUILDINGS (ASCE 31), 2003
- AMERICAN SOCIETY OF CIVIL ENGINEERS SEISMIC EVALUATION OF EXISTING BUILDINGS (ASCE 41), 2017
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION DESIGN GUIDE 11 GUIDE 11 VIBRATIONS OF STEEL FRAMED STRUCTURAL SYSTEMS DUE TO HUMAN ACTIVITY, SECOND EDITION
- NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY, STANDARDS OF SEISMIC SAFETY FOR EXISTING FEDERALLY OWNED AND LEASED BUILDINGS, ICSSC RECOMMENDED PRACTICE 8 (NIST GCD 11-917-12)
- ASME A17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS, 2019
- ASME A18.1 SAFETY CODE FOR PLATFORM AND STAIRWAY CHAIR LIFTS, 2020
- ARCHITECTURAL WOODWORK STANDARDS (AWS) SECOND EDITION, 2014
- PBS-P100, 2018
- ABAAS, AMERICANS WITH DISABILITIES ACT AND ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARDS, 2015
- U.S. MARSHALS SERVICES (USMS) PUBLICATION 64, VOLUMES I AND II, 2014 AND VOLUME III, 2017
- U.S. COURTS DESIGN GUIDE, 2007 WITH 2016 UPDATES
- ISC FACILITY SECURITY COMMITTEES STANDARD FOR RISK MANAGEMENT, 2021
- CAPITAL SECURITY HANDBOOK, 2018
- THEODORE LEVIN U.S. COURTHOUSE HISTORIC BUILDING PRESERVATION PLAN (HBPP), 1995, WITH ZONING UPDATE
- GSA P120 PBS COST ESTIMATING POLICY, 2017, WITH 2021 COST ESTIMATING WORKBOOK
- GSA PBS NATIONAL BUSINESS SPACE ASSIGNMENT POLICY, 2017
- GSA BIM GUIDE (DATES VARY PER SECTIONS 1 THRU 8)
- FIRST IMPRESSIONS PROGRAM GUIDE, 2017
- GSA DESIGN EXCELLENCE
- CITY OF DETROIT, DEPARTMENT OF PUBLIC WORKS, CITY ENGINEERING DIVISION, STREET AND ALLEY STANDARD PLANS, 2009
- CITY OF DETROIT, DEPARTMENT OF PUBLIC WORKS, CITY ENGINEERING DIVISION, STANDARD SPECIFICATIONS FOR PAVING AND RELATED CONSTRUCTION, 2009

SYMBOLS & ANNOTATIONS

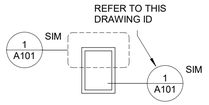
SYMBOL-BUILDING SECTION / WALL SECTION



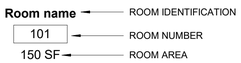
SYMBOL-EXTERIOR ELEVATION / INTERIOR ELEVATION



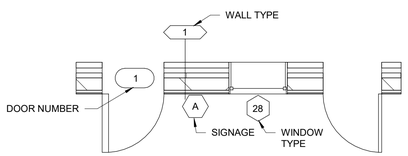
SYMBOL-DETAIL CALLOUT



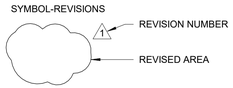
SYMBOL-ROOM TAG



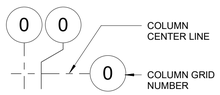
SYMBOL-WALL / DOOR / WINDOW



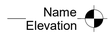
SYMBOL-REVISIONS



SYMBOL-COLUMN GRID

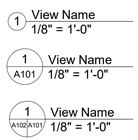


SYMBOL-FINISHED FLOOR ELEVATION

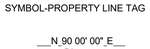


SYMBOL-SPOT ELEVATION

SYMBOL-VIEW LABEL



SYMBOL-PROPERTY LINE TAG

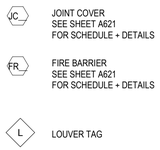


SYMBOL-FIXTURE / FURNITURE / EQUIPMENT TAG

SYMBOL-STAIR TAG

20R @ 7 1/2"

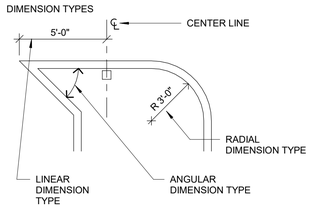
SYMBOL-CEILING TAG



SYMBOL - GRAPHIC SCALE

SYMBOL - MACHINE

DIMENSION TYPES



GENERAL CONSTRUCTION NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. ALL EXISTING CONDITIONS ARE TO BE FIELD VERIFIED BY THE G.C. AND ANY DISCREPANCIES BROUGHT TO THE ARCHITECTS ATTENTION.
2. PRIOR TO THE START OF CONSTRUCTION, CONTRACTOR TO VERIFY CONDITION OF EXISTING CONSTRUCTION. DOCUMENT ANY EXISTING CONDITION THAT COULD BE MISCONSTRUED AS DAMAGED DURING NEW CONSTRUCTION. NOTIFY THE GOVERNMENT OF EXISTING CONDITIONS IN WRITING PRIOR TO THE COMMENCEMENT OF WORK.
3. ALL PARTITIONS TO BE CONSTRUCTED OF NON COMBUSTIBLE MATERIALS IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, LATEST EDITION.
4. WHERE NEW CONSTRUCTION ABUTS EXISTING CONSTRUCTION AND APPEARS TO ALIGN FLUSH WITH EXISTING CONSTRUCTION, THE NEW CONSTRUCTION SHALL ALIGN AND BE FLUSH WITH NO VISIBLE JOINT.
5. DRAWINGS ARE NOT TO BE SCALED FOR ANY DIMENSIONS.
6. ALL WORK MUST COMPLY WITH THE DRAWINGS AND SPECIFICATIONS. ANY REVISIONS REQUIRED DUE TO FIELD CONDITIONS MUST BE REVIEWED AND APPROVED BY THE GSA CONTRACTING OFFICER PRIOR TO CONSTRUCTION.
7. PATCH AND REPAIR EXISTING WALLS, FLOORS AND COLUMNS THROUGHOUT TO ACHIEVE A SMOOTH AND BLEMISH FREE SURFACE SUITABLE FOR RECEIVING SPECIFIED FINISH. MODIFICATIONS AND/OR REPAIRS TO HISTORIC MATERIALS SHALL COMPLY WITH HISTORIC PRESERVATION REQUIREMENTS IN THE SPECIFICATIONS.
8. ALL ROUGH FRAMING WOOD (E.G. PLYWOOD ETC.) BEING INSTALLED SHALL BE TREATED WITH FIRE-RETARDANT CHEMICALS BY A PRESSURE-IMPREGNATION PROCESS OR OTHER METHODS WHICH TREAT THE MATERIAL THROUGHOUT (AS OPPOSED TO A SURFACE TREATMENT) TO MAKE IT FIRE SAFE.
9. 'EXIT' SIGNAGE AND EMERGENCY LIGHTING SHALL MEET THE REQUIREMENTS OF NFPA, LIFE SAFETY CODE, LATEST EDITION.
10. ALL CONDUIT AND PIPE PENETRATIONS IN WALLS SHALL BE SEALED. ALL PENETRATIONS IN FIRE RATED WALLS AND IN ALL FLOORS SHALL BE FIRE STOPPED. PROVIDE FLOOR-TO-FLOOR FIRESTOPPING AT ANY VERTICAL PIPING OR CONDUIT PENETRATIONS, WHICH ARE EXPOSED IN THE COURSE OF THIS RENOVATION WORK.
11. RELOCATE CONDUITS, SPRINKLERS LINES, ETC. TO ACCOMMODATE LIGHT FIXTURES, HVAC ACCESSORIES AND VARIOUS DEVICES. THE CMC CONTRACTOR SHALL FIELD VERIFY THE PROPOSED LOCATIONS FOR NEW EQUIPMENT AND SHALL INCLUDE ALL COSTS ASSOCIATED WITH RELOCATING EXITING EQUIPMENT IN THEIR PROPOSAL(S).
12. PROVIDE ADDITIONAL WIRING, CONDUIT AND ACCESSORIES FOR DEVICES TO BE RELOCATED.
13. ALL WALL MOUNTED DEVICES SHALL BE FULLY CONCEALED EXCEPT WHERE MOUNTED ON EXISTING WALLS. U.N.O.
14. PROVIDE ESCUTCHEONS FOR ALL VISIBLE FLOOR AND WALL PENETRATIONS.
15. ALL FIRE SPRINKLER SYSTEM MODIFICATION SHALL BE IN ACCORDANCE WITH NFPA STANDARD NO.13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, LATEST EDITION.
16. ALL SPRINKLER EQUIPMENT (E.G. PIPING, SPRINKLERS, ETC.) OUTSIDE THE AREA BEING RENOVATED SHALL REMAIN ACTIVE AT ALL TIMES (EXCEPT FOR CAPPING THE MAIN PIPE OR PIPES THAT FEED THE AREA TO BE RENOVATED). THE WORK SHALL BE RESTORED TO A FULLY OPERATING CONDITION PRIOR TO THE CONTRACTOR LEAVING THE WORK SITE EACH DAY. ALL SPRINKLER EQUIPMENT IN THE RENOVATED SPACE CAN BE TAKEN OUT OF SERVICE WHILE WORK IS BEING ACCOMPLISHED EACH DAY, BUT SHALL BE RESTORED TO FULLY OPERATION BEFORE THE CONTRACTOR VACATES THE WORK SITE EACH DAY.
17. ALL FIRE ALARM SYSTEM MODIFICATIONS SHALL BE IN ACCORDANCE WITH NFPA STANDARD NO.72, NATIONAL FIRE ALARM CODE, LATEST EDITION. EXISTING FIRE ALARM EQUIPMENT IN RENOVATED SPACE AND ADJACENT SPACES SHALL REMAIN FULLY OPERATIONAL THROUGHOUT CONSTRUCTION.
18. ALL NOISY AND/OR DISRUPTIVE WORK IS TO BE PERFORMED AFTER HOURS.
19. THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH SECURITY AND ALL GSA SUBCONTRACTORS.
20. THE TERM "CONTRACT LIMITS" IS INTENDED ONLY TO PROVIDE A GENERAL AREA OF WHERE THE WORK IS TO OCCUR. WORK, AS DESCRIBED IN THE DOCUMENTS, WILL NEED TO OCCUR OUTSIDE OF THE CONTRACT LIMITS FOR A COMPLETE PROJECT.
21. ALL ELEVATOR HALL FIXTURES ARE TO BE FLUSH MOUNT. NO EXTERNAL BOXES ARE TO BE USED.
22. CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL PERMITS REQUIRED FOR NEW WORK OUTSIDE OF THE BUILDING. COORDINATE WITH THE CITY OF DETROIT AS REQUIRED.
23. THE LEVIN U.S. COURTHOUSE IS LISTED ON THE NATIONAL REGISTER OF HISTORIC PLACES. SECTION 106 OF THE NATIONAL PRESERVATION ACT APPLIES AND THE SECRETARY OF THE INTERIOR'S STANDARDS FOR THE TREATMENT OF HISTORIC PROPERTIES MUST BE COMPLIED WITH. SEE ALSO SECTION 01 35 10 HISTORIC BUILDING TREATMENT PROCEDURES OF THE SPECIFICATIONS.

GENERAL DEMOLITION NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
2. PRIOR TO THE START OF CONSTRUCTION, CONTRACTOR TO VERIFY CONDITION OF EXISTING CONSTRUCTION. DOCUMENT ANY EXISTING CONDITION THAT COULD BE MISCONSTRUED AS DAMAGED DURING NEW CONSTRUCTION. NOTIFY THE GOVERNMENT OF EXISTING CONDITIONS IN WRITING PRIOR TO THE COMMENCEMENT OF WORK.
3. CONFIRM USAGE OF EXISTING POWER WIRING PRIOR TO REMOVAL TO VERIFY THAT THE WIRING DOES NOT POWER OTHER DEVICES OUTSIDE OF THE CONTRACT LIMITS.
4. PATCH & REPAIR FLOOR SLAB AND WALLS AS REQUIRED TO PROVIDE A SMOOTH, EVEN FINISH SUITABLE FOR THE APPLICATION OF SPECIFIED FINISHES. WHERE ELECTRICAL DEVICES ARE TO BE REMOVED FROM COLUMNS OR WALLS, REMOVE WIRING TO SOURCE. PATCH WALL WHERE DEVICES ARE REMOVED. MODIFICATIONS AND/OR REPAIRS TO HISTORIC MATERIALS SHALL COMPLY WITH HISTORIC PRESERVATION REQUIREMENTS IN THE SPECIFICATIONS.
5. ITEMS TO BE RELOCATED SHALL BE REMOVED, STORED, CLEANED AND REINSTALLED BY THE CONTRACTOR. COORDINATE WITH SPECIFICATIONS.
6. GOVERNMENT SHALL OCCUPY THE BUILDING OUTSIDE OF THE CONTRACT LIMITS DURING CONSTRUCTION. COORDINATE DEMOLITION EFFORTS WITH THE GOVERNMENT TO MINIMIZE DISTURBANCES.
7. ITEMS NOTED AS BEING REMOVED SHALL BE DISPOSED OF BY THE CONTRACTOR U.N.O.
8. COORDINATE DEMOLITION WITH MECHANICAL AND ELECTRICAL DRAWINGS.
9. LIGHT FIXTURES TO BE REMOVED SHALL INCLUDE ASSOCIATED WIRING, CONDUITS AND BOXES. COORDINATE WITH ADJACENT OFFICE SPACES SUCH THAT THEIR LIGHT FIXTURES REMAIN OPERATIONAL.
10. THE TERM "CONTRACT LIMITS" IS INTENDED ONLY TO PROVIDE A GENERAL AREA OF WHERE THE WORK IS TO OCCUR. WORK AS DESCRIBED IN THE DOCUMENTS, WILL NEED TO OCCUR OUTSIDE OF THE CONTRACT LIMITS FOR A COMPLETE PROJECT.
11. PATCH AND REPAIR WHERE EXISTING ITEMS (I.E. PLUMBING/MECHANICAL FIXTURES, RECEPTACLES) ARE TO BE REMOVED FROM WALLS OR FLOORS. MODIFICATIONS AND/OR REPAIRS TO HISTORIC MATERIALS SHALL COMPLY WITH HISTORIC PRESERVATION REQUIREMENTS IN THE SPECIFICATIONS. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS.
12. MODIFY THE EXISTING WET PIPE SPRINKLER AND FIRE ALARM SYSTEMS. MAINTAIN THESE SYSTEMS AS FULLY OPERATIONAL FOR THE ADJACENT OCCUPIED SPACES.
13. MAINTAIN ALL PATHS OF EGRESS FROM CONSTRUCTION SPACE AND FROM ADJACENT OCCUPIED SPACES CLEAR OF DEBRIS, MATERIALS AND EQUIPMENT.
14. SEE TITLE SHEET FOR ABBREVIATIONS.
15. WHERE CEILINGS ARE REMOVED, THE EXISTING SPRINKLERS MUST BE REPLACED AS UPRIGHT SPRINKLERS AND THEIR ASSOCIATED ARMOVER/SPRIG-UP'S, ETC. MUST BE MODIFIED TO PROVIDE THE NEW TEMPORARY UPRIGHT SPRINKLERS AND THEIR ASSOCIATED DEFLECTOR TO BE PROVIDED WITHIN 12" OF STRUCTURE OR CEILING ABOVE. ONCE THE NEW SUSPENDED CEILING HAS BEEN PROVIDED THE SPRINKLER CONTRACTOR CAN REMOVE THE EXISTING TEMPORARY UPRIGHT SPRINKLERS.
16. HAZARDOUS MATERIALS ARE PRESENT THROUGHOUT THE PROJECT AREA. THE CONTRACTOR SHALL FOLLOW LEAD PAINT REMEDIATION INSTRUCTION PER SPECIFICATION 02 83 00 AND ABATE ASBESTOS PER SPECIFICATION 02 82 00.
17. CONTRACTOR TO PROVIDE TEMPORARY BARRIERS AS REQUIRED FOR WORK. REFER TO SPECIFICATIONS FOR BASIS OF DESIGN PRODUCT.
18. THE CONSTRUCTION DOCUMENTS INCLUDE TERMS SUCH AS "REFER TO", "COORDINATE WITH", "SEE DRAWING/SPEC...", ETC. AS A MEANS TO DRAW ATTENTION TO SPECIFIC ITEMS WHICH NEED TO BE CROSS REFERENCED BETWEEN THE VARIOUS DOCUMENTS. THIS IS DONE GENERALLY AS A CONVENIENCE TO THE CONTRACTOR TO HELP FACILITATE THEIR REVIEW OF THE REQUIREMENTS. THE DESIGNER OF RECORD AND/OR OWNER DO NOT INTEND TO USE THESE TERMS IN EVERY OCCASION WHERE SUCH COORDINATION IS REQUIRED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY COORDINATE ALL OF THE REQUIREMENTS LISTED IN THE CONTRACT DOCUMENTS WHETHER OR NOT THE TERMS "REFER TO", "COORDINATE WITH", "SEE DRAWING/SPEC..." ARE LISTED.
19. THE LEVIN U.S. COURTHOUSE IS LISTED ON THE NATIONAL REGISTER OF HISTORIC PLACES. SECTION 106 OF THE NATIONAL PRESERVATION ACT APPLIES AND THE SECRETARY OF THE INTERIOR'S STANDARDS FOR THE TREATMENT OF HISTORIC PROPERTIES MUST BE COMPLIED WITH. SEE ALSO SECTION 01 35 10 HISTORIC BUILDING TREATMENT PROCEDURES OF THE SPECIFICATIONS.

KEY PLAN

GRAPHIC SCALE

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

STAMP OR SEAL

OWNER IDENTIFICATION

General Services Administration
Public Buildings Service
Great Lakes

Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	GENERAL NOTES & SYMBOLS
SHEET NUMBER AND FILENAME	G 003

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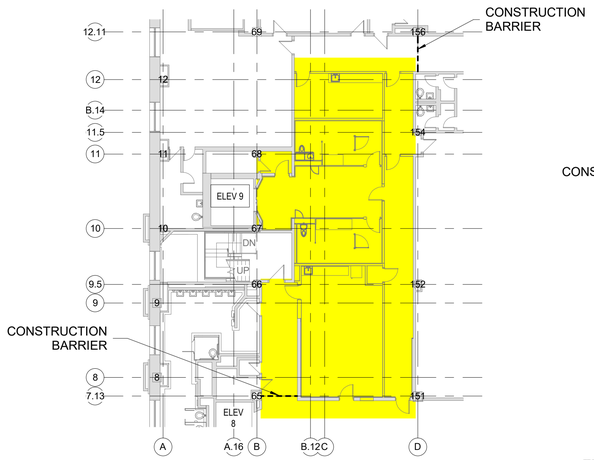
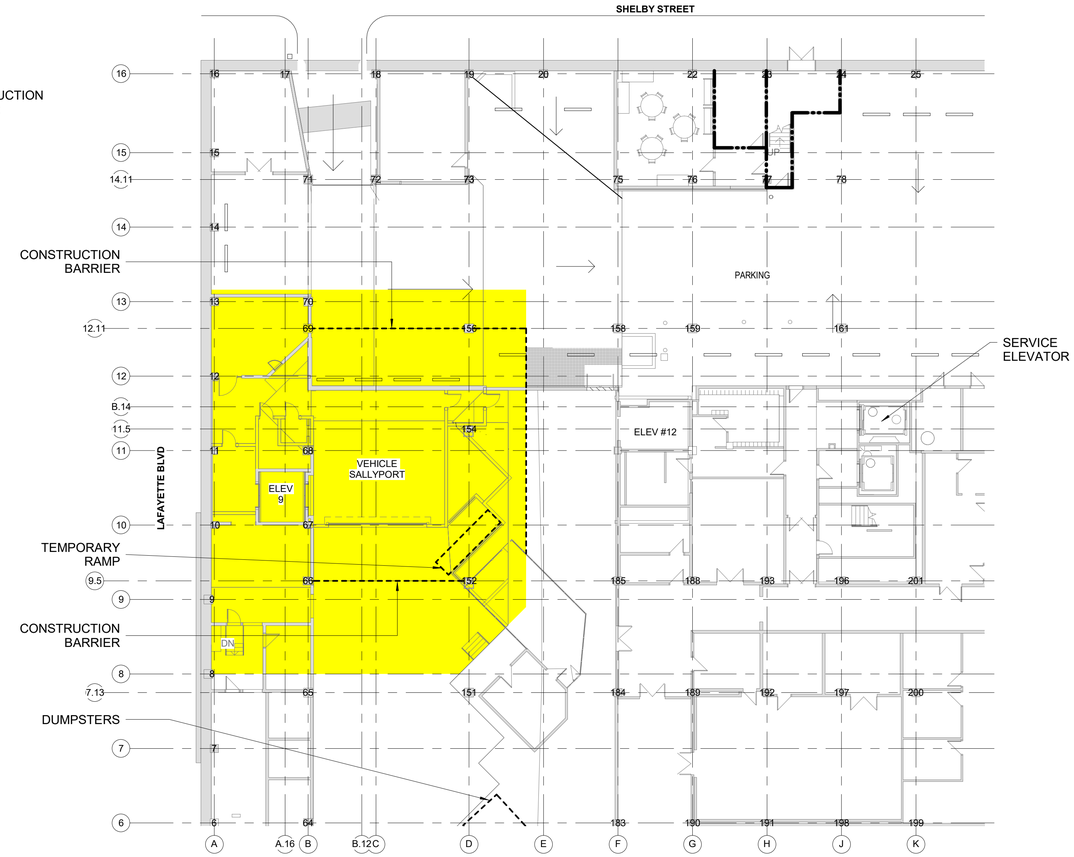
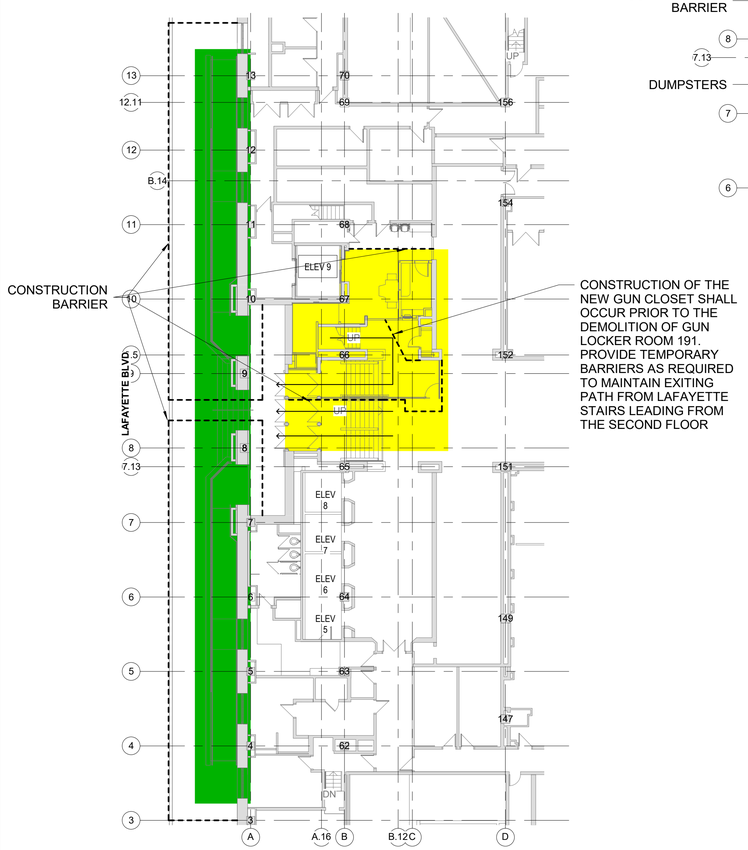


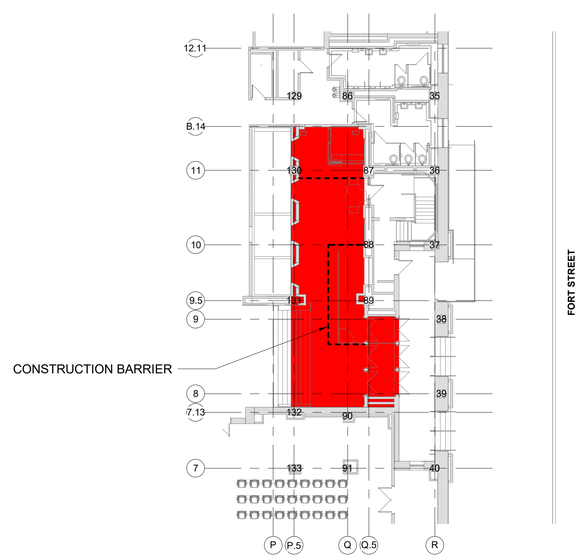
N 4 G 004 SECOND FLOOR - PHASING PLAN 1/16" = 1'-0"



N 2 G 004 BASEMENT FLOOR - PHASING PLAN 1/16" = 1'-0"



N 3 G 004 FIRST FLOOR - LAFAYETTE PHASING PLAN 1/16" = 1'-0"



N 1 G 004 FIRST FLOOR - FORT STREET PHASING PLAN 1/16" = 1'-0"

PHASING NOTES

THE WORK RELATED TO VEHICLE SALLYPORT, ELEVATOR 9, AND OPTION #1 FOR THE 2ND FLOOR (IF AWARDED) MAY BE COMPLETED AT ANY TIME OVER THE COURSE OF THE CONSTRUCTION DURATION. THE WORK RELATED TO THE LAFAYETTE BLVD ENTRANCE MUST BE COORDINATED AND A TEMPORARY RAMP AND STAIR PROVIDED SUCH THAT IT REMAINS A FUNCTIONING ENTRANCE/EXIT FOR THE DURATION OF THE PROJECT. THE WORK SHALL BE COORDINATED SUCH THAT THERE IS ALWAYS A FUNCTIONING SECURITY/ SCREENING STATION E.G. X-RAY, MAGNETOMETER, ETC. AT BOTH ENTRANCES AND SHALL REMAIN IN SERVICE DURING ALL PHASES. IN ADDITION, THE WORK SHALL BE PLANNED TO LIMIT THE TRANSITION TIME BETWEEN THE EXISTING STATIONS AND THE NEW ONES.

PHASE 1 (RED) - FIRST FLOOR FORT STREET ENTRANCE

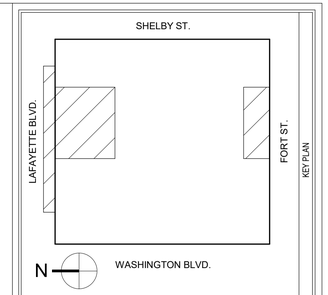
PHSAE 2 (YELLOW) - BASEMENT VEHICLE SALLYPORT, FIRST FLOOR LAFAYETTE ENTRANCE, ELEVATOR 9, AND OPTION 1 SECOND FLOOR

PHASE 3 (GREEN) - EXTERIOR LAFAYETTE RAMP ADDITIONS

BASIS OF DESIGN CONSTRUCTION TEMPORARY BARRIERS IS SWIFTWALL. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

PROJECT TURNOVER

ONLY THE LAFAYETTE BLVD ENTRANCE PHASE 1 SHALL BE FULLY COMMISSIONED AND TURNED OVER TO THE GOVERNMENT PRIOR TO THE COMPLETION OF THE ENTIRE PROJECT. THE WARRANTY FOR THE PHASE 1 RELATED WORK WILL BEGIN ON THE DATE OF THE AREA RECEIVES A CERTIFICATION OF OCCUPANCY FROM THE GSA FIRE & LIFE SAFETY AUTHORITY HAVING JURISDICTION. THE BUILDING'S O&M CONTRACTOR WILL TAKE OVER THE MAINTENANCE FOR THE PHASE 1 RELATED EQUIPMENT ON THE DATE OF THE CERTIFICATE, UNLESS NOTED OTHERWISE FOR A PARTICULAR PRODUCT IN THE SPECIFICATIONS. ALL OTHER COMPONENTS AND PHASES SHALL BE COMMISSIONED, FULLY ACCEPTED AND WARRANTED UPON THE RECEIPT OF THE CERTIFICATION OF OCCUPANCY FROM THE GSA FIRE & LIFE SAFETY AUTHORITY HAVING JURISDICTION AT THE CONCLUSION OF THE ENTIRE PROJECT.



KEY PLAN

1/16"=1'-0" 0 16' 32'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

CONSULTANT IDENTIFICATION

STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047664
LICENSED ARCHITECT

STAMP OR SEAL

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	VARIOUS
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	PHASING
SHEET NUMBER AND FILENAME	G 004

SHEET

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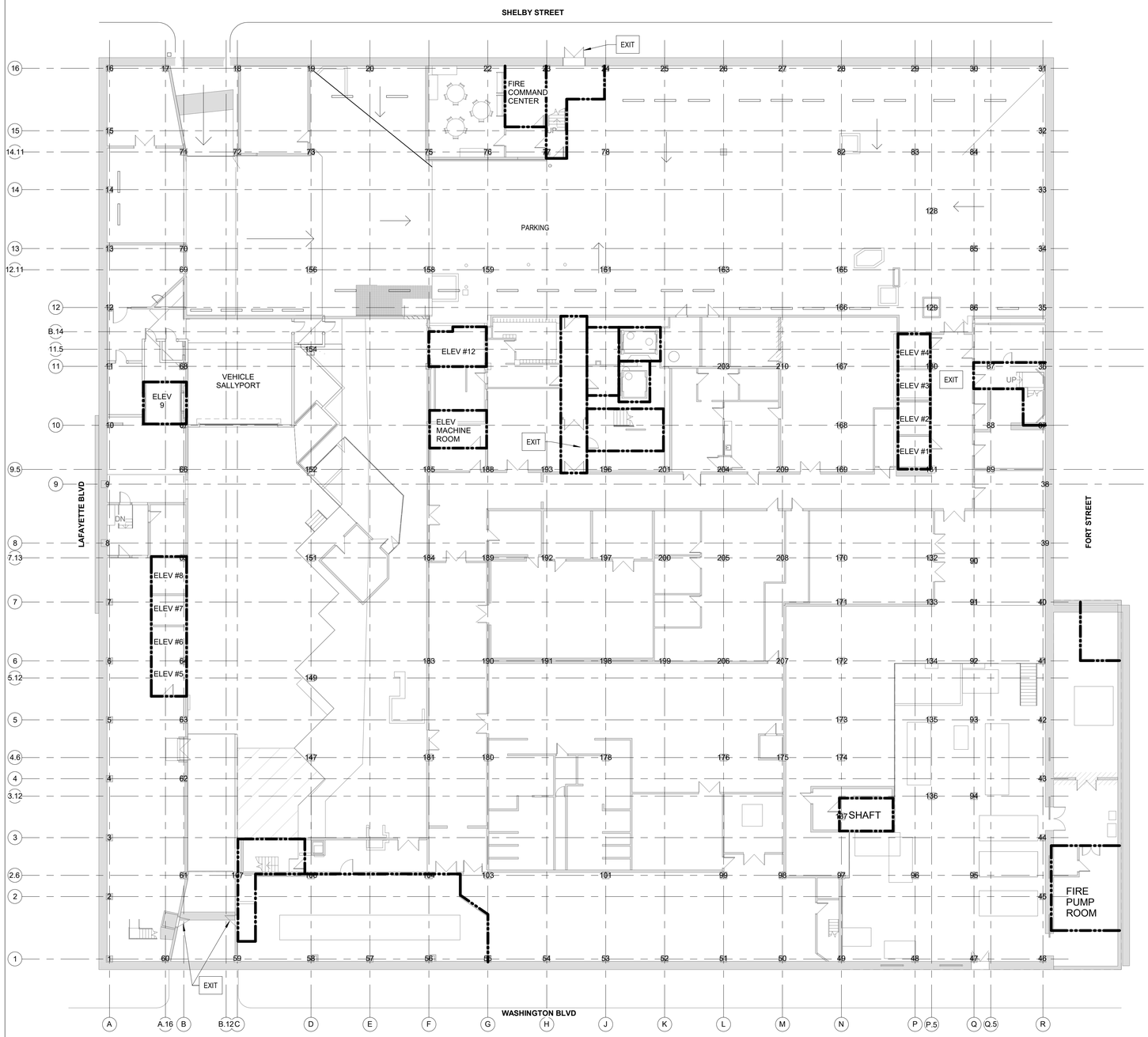

N

1 G 005 BASEMENT LIFE SAFETY PLAN
1/16" = 1'-0"

LIFE SAFETY LEGEND

TWO HOUR

CONSTRUCTION TYPE: THE EXISTING BUILDING IS CLASSIFIED AS A TYPE I-B CONSTRUCTION. ALL BUILDING ELEMENTS ALTERED OR ADDED SHALL BE RATED AS FOLLOWS:

FIRE RESISTIVE RATINGS: 1-B CONSTRUCTION (TYPE 222)
EXTERIOR WALLS, BEARING: NON-COMBUSTIBLE, 2 HOUR FIRE RESISTIVE
EXTERIOR WALLS, NON-BEARING: NON-COMBUSTIBLE, 0 HOUR FIRE RESISTIVE
INTERIOR WALLS, BEARING: NON-COMBUSTIBLE, 2 HOUR FIRE RESISTIVE
STRUCTURAL FRAME: NON-COMBUSTIBLE, 2 HOUR FIRE RESISTIVE
FLOOR-CEILING: NON-COMBUSTIBLE, 2 HOUR FIRE RESISTIVE
ROOF-CEILING: NON-COMBUSTIBLE, 1 HOUR FIRE RESISTIVE
SHAFT ENCLOSURES: NON-COMBUSTIBLE, 2 HOUR FIRE RESISTIVE
INTERIOR WALLS, NON-BEARING: NON-COMBUSTIBLE, 0 HOUR FIRE RESISTIVE

FIRE SEPARATIONS:

FIRE COMMAND CENTER:	1 HOUR
FIRE PUMP ROOM:	2 HOUR
ELEVATOR MACHINE ROOMS:	2 HOUR
MAINTENANCE SHOPS:	1 HOUR
VERTICAL OPENINGS:	2 HOUR
EXIT ENCLOSURES:	2 HOUR

OCCUPANCY SEPARATION: OCCUPANCY SEPARATIONS ARE NOT REQUIRED BETWEEN THE BUSINESS AND ASSEMBLY OCCUPANCIES OR BETWEEN THESE OCCUPANCIES AND INCIDENTAL USE AREAS.

FIRE PROTECTION: AUTOMATIC SPRINKLERS REQUIRED THROUGHOUT THE BUILDING. REFER TO FIRE PROTECTION DRAWINGS.

FIRE ALARM: FIRE ALARM SYSTEM IS REQUIRED THROUGHOUT THE BUILDING. REFER TO FIRE ALARM DRAWINGS.

FIRE DEPARTMENT COMMUNICATION SYSTEM: TWO-WAY TELEPHONE COMMUNICATION SERVICE IS REQUIRED FOR FIRE DEPARTMENT USE. THE SYSTEM SHALL BE IN ACCORDANCE WITH NFPA 72. THE COMMUNICATIONS SYSTEM SHALL OPERATE BETWEEN THE CENTRAL CONTROL ROOM AND EVERY ELEVATOR CAR, ELEVATOR LOBBY, FIRE PUMP ROOM, EMERGENCY GENERATOR ROOM AND EACH FLOOR LEVEL OF EXIT STAIRS.

NOTES:

1. MAXIMUM EXIT TRAVEL DISTANCE PER NFPA 101 LIFE SAFETY CODE 2021 IS 250 FEET WITH A SPRINKLER SYSTEM, PER CHAPTER 7 SECTION 7.6.6. THE TRAVEL DISTANCE MUST COMPLY WITH AT LEAST ONE EXIT.
2. SEE REFLECTED CEILING PLANS FOR EXIT LIGHT LOCATIONS.

OCCUPANT LOAD FOR BASEMENT EXITING
BASED ON NFPA 101 (2021)

LOCATION BASEMENT	AREA TYPE	AREA (SF)	FACTOR/SF	OCCUPANTS	BENCH LENGTH	FACTOR/LF	OCCUPANTS	FIXED SEATING OCCUPANTS	TOTAL OCCUPANTS
GSA AND USDC STORAGE	S(1)	7860	500	16	N/A	N/A	0	N/A	**16**
LOADING DOCK	S(2)	9317	500	19	N/A	N/A	0	N/A	**19**
USDC FITNESS ROOM	EKQ	4955	50	100	N/A	N/A	0	N/A	**100**
PROBATION / PRETRIAL FITNESS TRAINING	ER	1565	15	105	N/A	N/A	0	N/A	**105**
JUDGES PARKING	PG	N/A	N/A	0	N/A	N/A	32	N/A	**32**
MARSHALS VEHICLE SALLYPORT	PGD	N/A	N/A	0	N/A	N/A	16	N/A	**16**
CSO BREAKROOM *	B(3)	654	30	22	N/A	N/A	0	N/A	**22**
USDC MAIL ROOM	B(1)	958	150	7	N/A	N/A	0	N/A	**7**
JANITORIAL OFFICE	B(1)	437	150	3	N/A	N/A	0	N/A	**3**
O&M CONTRACTOR OFFICE	B(1)	1520	150	11	N/A	N/A	0	N/A	**11**
								GRAND TOTAL	**331**

*PER 4/12/22 TELECONF, FLS AGREED THE CSO's BREAK ROOM SHOULD BE 30/SF OCCUPANT LOAD IN LIEU OF 15/SF.

S(1) = Storage (Low Hazard) [GROSS]
S(2) = Load Dock (Storage - Low Hazard) [GROSS]
ER = Exercise Room without Equipment [GROSS]
EKQ = Exercise Room with Equipment [GROSS]
PG = Parking Garage (Judicial) (Ordinary Hazard) - Occ based on number of parking spaces w 1 person per vehicle [COUNT]
PGD = Parking Garage Detention (USMS) (Ordinary Hazard) - Occ based on number of parking spaces w 8 persons per vehicle [COUNT]
B(1) = Business - Office Use [GROSS]
B(3) = Business - Collaboration = 450 [GROSS]

REQUIRED EXIT WIDTH FOR BASEMENT
BASED ON NFPA 101 (2021)

NUMBER OF OCCUPANTS	OCCUPANT WIDTH (IN.)	TOTAL INCHES REQ'D
331	0.2	67

AVAILABLE EXITING [SUBTRACT 1.5" PER EA DOOR LEAF]		
FORT STREET (1 36" DOOR)	34.5	
LAFAYETTE II	0	
SHELBY (1 36" DOOR)	34.5	
WASHINGTON (1 36" DOOR)	34.5	
TOWER (1 36" DOOR)	34.5	138
	DIFFERENCE	**-71**

No exit stair for Lafayette from Basement

EXCEEDS MIN REQUIREMENT BY 71"

SHELBY ST.
LAFAYETTE BLVD.
FORT ST.
WASHINGTON BLVD.
N
KEY PLAN

1/16"=1'-0" 0 16' 32'
GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

CONSULTANT IDENTIFICATION

STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047664
LICENSED ARCHITECT

STAMP OR SEAL

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	BASEMENT FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	LIFE SAFETY
SHEET NUMBER AND FILENAME	G 005

SHEET

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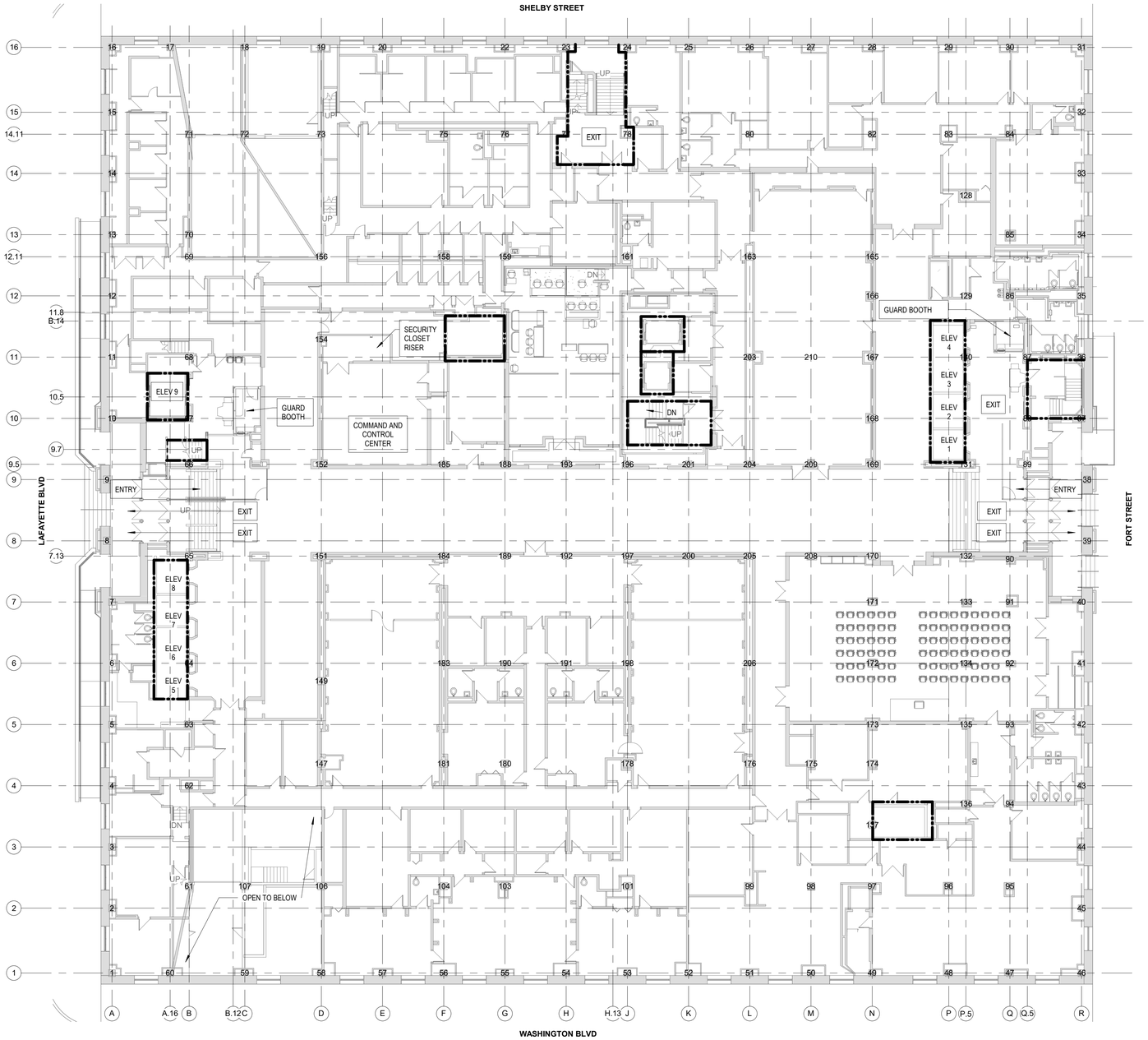


N

1 G 006 FIRST FLOOR - LIFE SAFETY PLAN
1/16" = 1'-0"

LIFE SAFETY LEGEND

TWO HOUR

CONSTRUCTION TYPE: THE EXISTING BUILDING IS CLASSIFIED AS A TYPE I-B CONSTRUCTION. ALL BUILDING ELEMENTS ALTERED OR ADDED SHALL BE RATED AS FOLLOWS:

FIRE RESISTIVE RATINGS: 1-B CONSTRUCTION (TYPE 222)
EXTERIOR WALLS, BEARING: NON-COMBUSTIBLE, 2 HOUR FIRE RESISTIVE
EXTERIOR WALLS, NON-BEARING: NON-COMBUSTIBLE, 0 HOUR FIRE RESISTIVE
INTERIOR WALLS, BEARING: NON-COMBUSTIBLE, 2 HOUR FIRE RESISTIVE
STRUCTURAL FRAME: NON-COMBUSTIBLE, 2 HOUR FIRE RESISTIVE
FLOOR-CEILING: NON-COMBUSTIBLE, 2 HOUR FIRE RESISTIVE
ROOF-CEILING: NON-COMBUSTIBLE, 1 HOUR FIRE RESISTIVE
SHAFT ENCLOSURES: NON-COMBUSTIBLE, 2 HOUR FIRE RESISTIVE
INTERIOR WALLS, NON-BEARING: NON-COMBUSTIBLE, 0 HOUR FIRE RESISTIVE

FIRE SEPARATIONS:

FIRE COMMAND CENTER:	1 HOUR
FIRE PUMP ROOM:	2 HOUR
ELEVATOR MACHINE ROOMS:	2 HOUR
MAINTENANCE SHOPS:	1 HOUR
VERTICAL OPENINGS:	2 HOUR
EXIT ENCLOSURES:	2 HOUR

OCCUPANCY SEPARATION: OCCUPANCY SEPARATIONS ARE NOT REQUIRED BETWEEN THE BUSINESS AND ASSEMBLY OCCUPANCIES OR BETWEEN THESE OCCUPANCIES AND INCIDENTAL USE AREAS.

FIRE PROTECTION: AUTOMATIC SPRINKLERS REQUIRED THROUGHOUT THE BUILDING. REFER TO FIRE PROTECTION DRAWINGS.

FIRE ALARM: FIRE ALARM SYSTEM IS REQUIRED THROUGHOUT THE BUILDING. REFER TO FIRE ALARM DRAWINGS.

FIRE DEPARTMENT COMMUNICATION SYSTEM: TWO-WAY TELEPHONE COMMUNICATION SERVICE IS REQUIRED FOR FIRE DEPARTMENT USE. THE SYSTEM SHALL BE IN ACCORDANCE WITH NFPA 72. THE COMMUNICATIONS SYSTEM SHALL OPERATE BETWEEN THE CENTRAL CONTROL ROOM AND EVERY ELEVATOR CAR, ELEVATOR LOBBY, FIRE PUMP ROOM, EMERGENCY GENERATOR ROOM AND EACH FLOOR LEVEL OF EXIT STAIRS.

NOTES:

1. MAXIMUM EXIT TRAVEL DISTANCE PER NFPA 101 LIFE SAFETY CODE 2021 IS 250 FEET WITH A SPRINKLER SYSTEM, PER CHAPTER 7 SECTION 7.6.6. THE TRAVEL DISTANCE MUST COMPLY WITH AT LEAST ONE EXIT.
2. SEE REFLECTED CEILING PLANS FOR EXIT LIGHT LOCATIONS.

OCCUPANT LOAD FOR 1ST FLOOR + 1M EXITING
BASED ON NFPA 101 (2021)

LOCATION	AREA TYPE	AREA (SF)	FACTOR/SF	OCCUPANTS	BENCH LENGTH	FACTOR/LF	OCCUPANTS	FIXED SEATING OCCUPANTS	TOTAL OCCUPANTS
1ST FLOOR									
ARRAIGNMENT COURTROOM 180 (no jury)	A(1)	N/A	N/A	0	130.5	1.5	87	14	**101**
COURTROOM 108	A(1)	N/A	N/A	0	82.833	1.5	56	30	**86**
COURTROOM 110	A(1)	N/A	N/A	0	82.833	1.5	56	30	**86**
COURTROOM 115	A(1)	N/A	N/A	0	175.917	1.5	118	30	**148**
DETROIT ROOM 128A	A(2)	3045	7	435	N/A	N/A	0	N/A	**435**
VESTIBULE WAITING 111	A(3)	823	3	275	N/A	N/A	0	N/A	**275**
CHAMBERS, OFFICES AND ASSOC. SPACES	B(1)	18518	150	124	N/A	N/A	0	N/A	**124**
SMALL CONFERENCE	B(2)	610	30	21	N/A	N/A	0	N/A	**21**
JURY ROOMS	B(4)	N/A	N/A	0	N/A	N/A	48	N/A	**48**
IT CONFERENCE ROOM 128Q	B(3)	651	15	44	N/A	N/A	0	N/A	**44**
DETENTION (USMS CELLBLOCK)	D	6822	120	57	N/A	N/A	0	N/A	**57**
MEZZANINE									
BREAK ROOM 1M31D*	B(3)	1610	30	54	N/A	N/A	0	N/A	**54**
OFFICES	B(1)	1308	150	9	N/A	N/A	0	N/A	**9**
								GRAND TOTAL	**1488**

*PER 4/12/22 TELECONF, FLS AGREED THE CSO's BREAK ROOM SHOULD BE 30/SF OCCUPANT LOAD IN LIEU OF 15/SF.
"MAXIMUM OCCUPANCY": SIGN SHOULD BE POSTED SHOULD BE POSTED.

A(1) = ASSEMBLY- BASED ON LINEAR FEET OF BENCH SEATING + ACTUAL NUMBER OF SEATS FOR JUDGE, CLERK, PROSECUTION, DEFENSE, DEFENDANT, WITNESS AND JURY WHERE APPLICABLE.
A(2) = ASSEMBLY - CONCENTRATED USE WITHOUT FIXED SEATING [NET]
A(3) = ASSEMBLY - WAITING SPACES [NET]
B(1) = BUSINESS - OFFICE USE [GROSS]
B(2) = BUSINESS - COLLABORATION SPACES < 450 SF [GROSS]
B(3) = BUSINESS - COLLABORATION SPACES > 450 SF [GROSS]
B(4) = BUSINESS - COLLABORATION SPACES - JURY ROOM OF 16 PERSONS
D = DETENTION AND CORRECTIONAL USE [GROSS]

REQUIRED EXIT WIDTH FOR 1ST FLOOR + 1M EXITING
BASED ON NFPA 101 (2021)

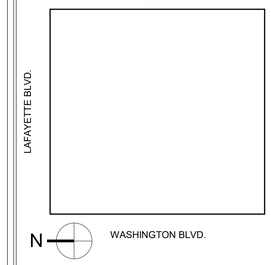
NUMBER OF OCCUPANTS	OCCUPANT WIDTH (IN.)	TOTAL INCHES REQ'D
1488	0.2	298

AVAILABLE EXITING (SUBTRACT 1.5" PER EA DOOR LEAF)		
FORT STREET (2 PAIRS OF 30" DOORS)	114	
LAFAYETTE (2 PAIRS OF 30" DOORS)	114	
SHELBY (1 PAIR OF 36" DOORS)	69	
WASHINGTON	0	
TOWER	0	297
	DIFFERENCE	**1**

DEFICIENT OF MIN REQMT BY 1"

NOTES:
1. BASEMENT AND 2ND FLOOR EXITING ALL HAVE EXITING CONTIGUOUS TO DIRECT EXITING FROM THE BUILDING EXCEPT FOR LAFAYETTE BLVD STAIRS. THEREFORE THOSE OCCUPANTS ARE NOT ADDED TO THE 1ST FLOOR TO DETERMINE THE 1ST FLOOR'S EXIT CAPACITY.
2. LAFAYETTE BLVD STAIRS HAVE ONLY A SINGLE 36" DOOR. IT IS ASSUMED THAT EXIT ROUTE WOULD REJOIN THE SECURITY ENTRANCE QUEUE AND EXIT THROUGH THE PAIR OF 30" DOORS THROUGH WHICH THEY ENTERED THE BUILDING.

KEY PLAN



GRAPHIC SCALE

1/16"=1'-0" 0 16' 32'

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

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John C. Kluczynski Federal Building
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Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	LIFE SAFETY
SHEET NUMBER AND FILENAME	G 006

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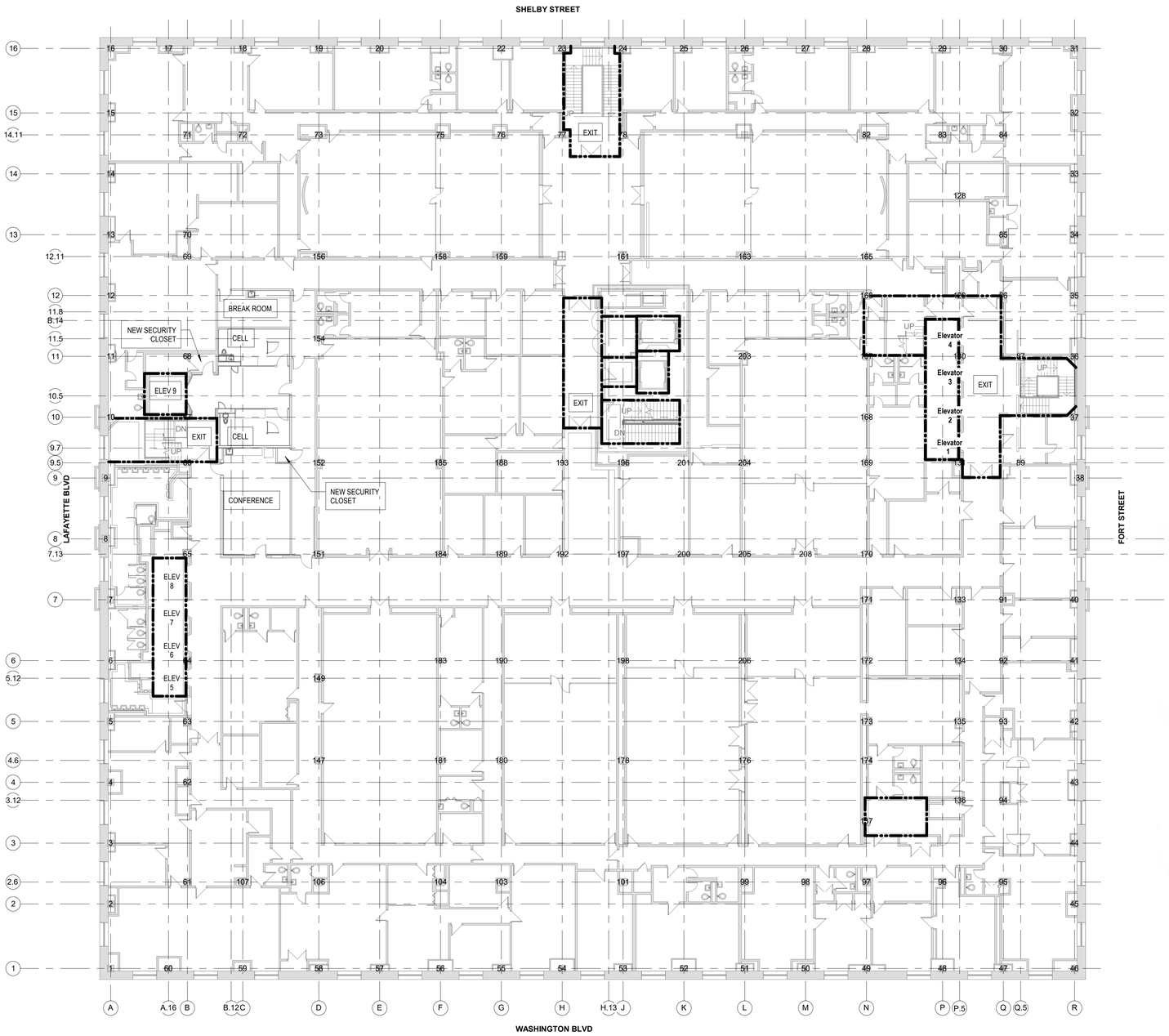

N

1 / G 007 SECOND FLOOR - LIFE SAFETY PLAN
1/16" = 1'-0"

LIFE SAFETY LEGEND

TWO HOUR

CONSTRUCTION TYPE: THE EXISTING BUILDING IS CLASSIFIED AS A TYPE I-B CONSTRUCTION. ALL BUILDING ELEMENTS ALTERED OR ADDED SHALL BE RATED AS FOLLOWS:

FIRE RESISTIVE RATINGS: 1-B CONSTRUCTION (TYPE 222)
EXTERIOR WALLS, BEARING: NON-COMBUSTIBLE, 2 HOUR FIRE RESISTIVE
EXTERIOR WALLS, NON-BEARING: NON-COMBUSTIBLE, 0 HOUR FIRE RESISTIVE
INTERIOR WALLS, BEARING: NON-COMBUSTIBLE, 2 HOUR FIRE RESISTIVE
STRUCTURAL FRAME: NON-COMBUSTIBLE, 2 HOUR FIRE RESISTIVE
FLOOR-CEILING: NON-COMBUSTIBLE, 2 HOUR FIRE RESISTIVE
ROOF-CEILING: NON-COMBUSTIBLE, 1 HOUR FIRE RESISTIVE
SHAFT ENCLOSURES: NON-COMBUSTIBLE, 2 HOUR FIRE RESISTIVE
INTERIOR WALLS, NON-BEARING: NON-COMBUSTIBLE, 0 HOUR FIRE RESISTIVE

FIRE SEPARATIONS:

FIRE COMMAND CENTER:	1 HOUR
FIRE PUMP ROOM:	2 HOUR
ELEVATOR MACHINE ROOMS:	2 HOUR
MAINTENANCE SHOPS:	1 HOUR
VERTICAL OPENINGS:	2 HOUR
EXIT ENCLOSURES:	2 HOUR

OCCUPANCY SEPARATION: OCCUPANCY SEPARATIONS ARE NOT REQUIRED BETWEEN THE BUSINESS AND ASSEMBLY OCCUPANCIES OR BETWEEN THESE OCCUPANCIES AND INCIDENTAL USE AREAS.

FIRE PROTECTION: AUTOMATIC SPRINKLERS REQUIRED THROUGHOUT THE BUILDING. REFER TO FIRE PROTECTION DRAWINGS.

FIRE ALARM: FIRE ALARM SYSTEM IS REQUIRED THROUGHOUT THE BUILDING. REFER TO FIRE ALARM DRAWINGS.

FIRE DEPARTMENT COMMUNICATION SYSTEM: TWO-WAY TELEPHONE COMMUNICATION SERVICE IS REQUIRED FOR FIRE DEPARTMENT USE. THE SYSTEM SHALL BE IN ACCORDANCE WITH NFPA 72. THE COMMUNICATIONS SYSTEM SHALL OPERATE BETWEEN THE CENTRAL CONTROL ROOM AND EVERY ELEVATOR CAR, ELEVATOR LOBBY, FIRE PUMP ROOM, EMERGENCY GENERATOR ROOM AND EACH FLOOR LEVEL OF EXIT STAIRS.

NOTES:

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2. SEE REFLECTED CEILING PLANS FOR EXIT LIGHT LOCATIONS.

OCCUPANT LOAD FOR 2ND EXITING
BASED ON NFPA 101 (2021)

LOCATION	AREA TYPE	AREA (SF)	FACTOR/SF	OCCUPANTS	BENCH LENGTH	FACTOR/LF	OCCUPANTS	FIXED SEATING OCCUPANTS	TOTAL OCCUPANTS
2ND FLOOR									
COURTROOM (BERG)	A(1)	N/A	N/A	0	182.85	1.5	122	30	**152**
COURTROOM (BITTANI)	A(1)	N/A	N/A	0	196.5	1.5	131	30	**161**
COURTROOM 219	A(1)	N/A	N/A	0	133.25	1.5	89	30	**119**
COURTROOM (HOOD)	A(1)	N/A	N/A	0	97.5	1.5	65	30	**95**
COURTROOM (MURPHY)	A(1)	N/A	N/A	0	97.5	1.5	65	30	**95**
COURTROOM (MICHELSON)	A(1)	N/A	N/A	0	104.66	1.5	70	30	**100**
COURTROOM (PARKER)	A(1)	N/A	N/A	0	104.66	1.5	70	30	**100**
COURTROOM 207	A(1)	N/A	N/A	0	138.5	1.5	93	30	**123**
JUDGES CHAMBERS	B(1)	33914	150	227	N/A	N/A	0	N/A	**227**
SMALL CONFERENCE ROOMS	B(2)	1489	30	50	N/A	N/A	0	N/A	**50**
JURY ROOMS	B(4)	N/A	N/A	0	N/A	N/A	128	N/A	**128**
LARGE USDC CONFERENCE ROOM (LAF SIDE)	B(3)	598	15	40	N/A	N/A	0	N/A	**40**
USDC TRAINING ROOMS	B(3)	1395	15	93	N/A	N/A	0	N/A	**93**
DETENTION (USMS CELLBLOCK)	D	903	120	8	N/A	N/A	0	N/A	**8**

GRAND TOTAL	1491

*PER 4/12/22 TELECONF, FLS AGREED THE CSO's BREAK ROOM SHOULD BE 30/SF OCCUPANT LOAD IN LIEU OF 15/SF.
"MAXIMUM OCCUPANCY" SIGN SHOULD BE POSTED SHOULD BE POSTED.

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A(2) = ASSEMBLY - CONCENTRATED USE WITHOUT FIXED SEATING [NET]
A(3) = ASSEMBLY - WAITING SPACES [NET]
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B(2) = BUSINESS - COLLABORATION SPACES < 450 SF [GROSS]
B(3) = BUSINESS - COLLABORATION SPACES > 450 SF [GROSS]
B(4) = BUSINESS - COLLABORATION SPACES - JURY ROOM OF 16 PERSONS
D = DETENTION AND CORRECTIONAL USE [GROSS]

REQUIRED EXIT WIDTH FOR 2ND FLOOR EXITING
BASED ON NFPA 101 (2021)

NUMBER OF OCCUPANTS	OCCUPANT WIDTH (IN.)	TOTAL INCHES REQ'D
1491	0.2	299

AVAILABLE EXITING (SUBTRACT 1.5" PER EA DOOR LEAF)		
FORT STREET (2 PAIRS OF 36" DOORS)	57	
LAFAYETTE (1 36" DOOR)	34.5	
SHELBY (1 PAIR OF 36" DOORS)	57	
WASHINGTON	0	
TOWER (1 36" DOOR)	34.5	183
	DIFFERENCE	**116**

DEFICIENT OF MIN REQMT BY 116".

SHELBY ST.
LAFAYETTE BLVD.
FORT ST.
WASHINGTON BLVD.
N
KEY PLAN

1/16"=1'-0" 0 16' 32'
GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
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DESIGNER IDENTIFICATION

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BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	SECOND FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	LIFE SAFETY
SHEET NUMBER AND FILENAME	G 007

SHEET

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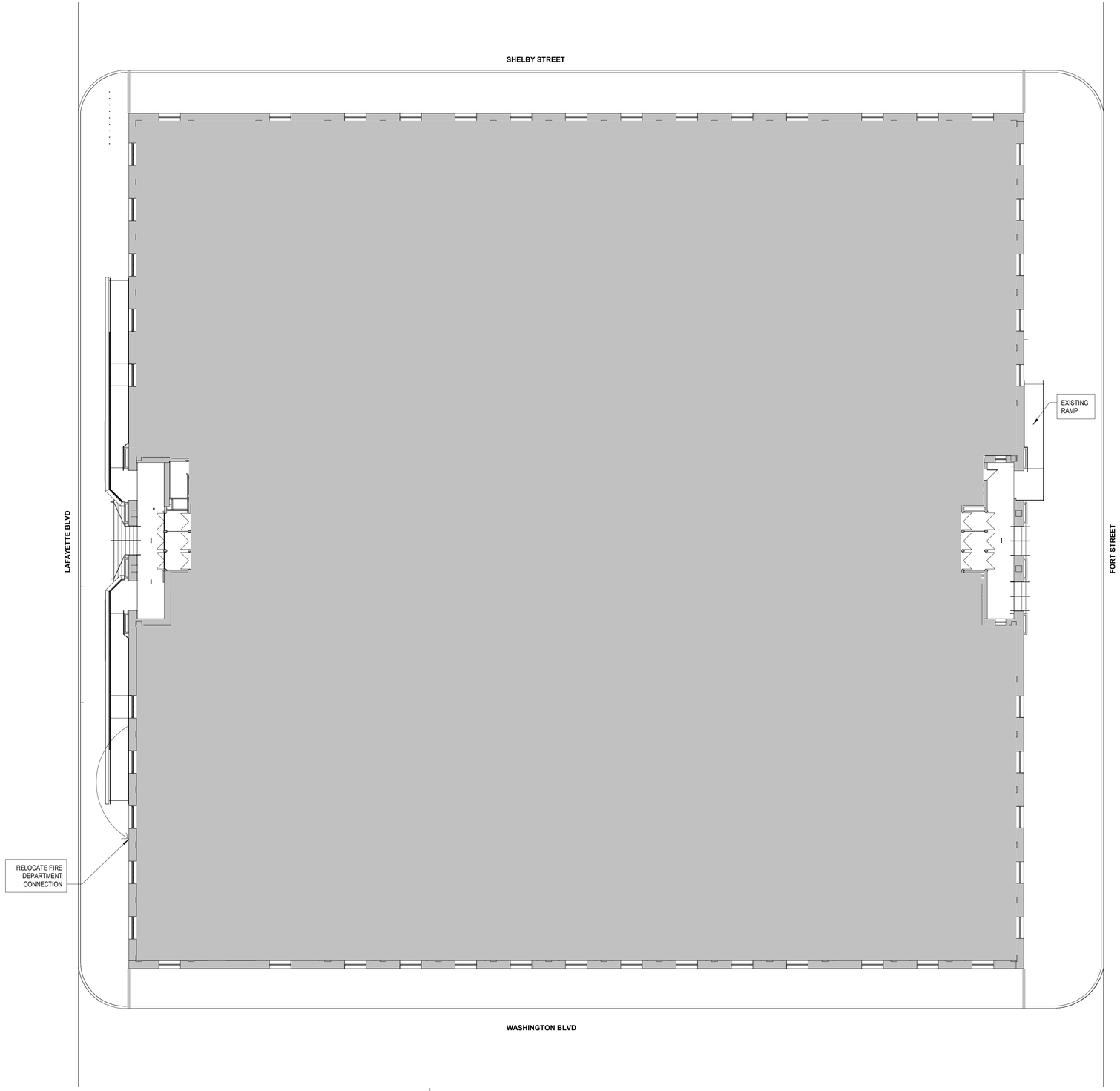


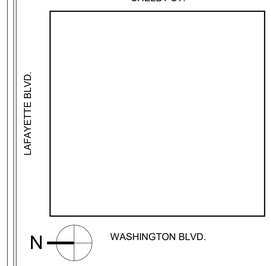
N

1 G 008 SITE PLAN - NEW
1/16" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
2. DIMENSIONS ARE MEASURED TO THE FACE OF PARTITION U.N.O.
3. ALL SWINGING DOORS WITHOUT KEY NUMBERS ARE EXISTING TO REMAIN. U.N.O.
4. WHERE EVER THE TERMINOLOGY (ABAAS) OCCURS, REFERENCE IS MADE TO THE ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARDS.
5. COORDINATE WORK WITH ALL OTHER TRADES.
6. WORK OUTSIDE THE CONTRACT LIMITS MAY BE REQUIRED FOR TIE-INS AND CONNECTIONS. CONTRACTOR TO WORK OUTSIDE OF THE CONTRACT LIMITS AS REQUIRED TO COMPLETE THE ENTIRE SCOPE OF WORK FOR THE PROJECT.
7. PATCH ANY OPENINGS, CORES, FASTENER HOLES, ETC. RESULTING FROM DEMOLITION.
8. CONTRACTOR SHALL LAYOUT WALL LOCATIONS AND REVIEW WITH ARCHITECT PRIOR TO CONSTRUCTING ANY PARTITIONS.
9. ALL DOORS REQUIRED CLEARANCE OF 18" PULL SIDE AND 12" PUSH SIDE U.N.O.
10. PROVIDE IN-WALL BLOCKING FOR WALL STOPS. REFER TO DOOR SCHEDULE.
11. CONTRACTOR TO REVIEW AND COORDINATE WALLS TO DECK WITH DEVICES SUPPORTED FROM STRUCTURAL DECK ABOVE INCLUDING BUT NOT LIMITED TO FIRE ALARM CONDUIT, JUNCTION BOXES, MECHANICAL DUCTWORK, ETC. CONTRACTOR TO JOG WALLS ABOVE CEILING AS REQUIRED TO AVOID CONFLICTS.

KEY PLAN



GRAPHIC SCALE

1/16"=1'-0" 0 16' 32'

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

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Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	SITE PLAN
SHEET NUMBER AND FILENAME	G 008

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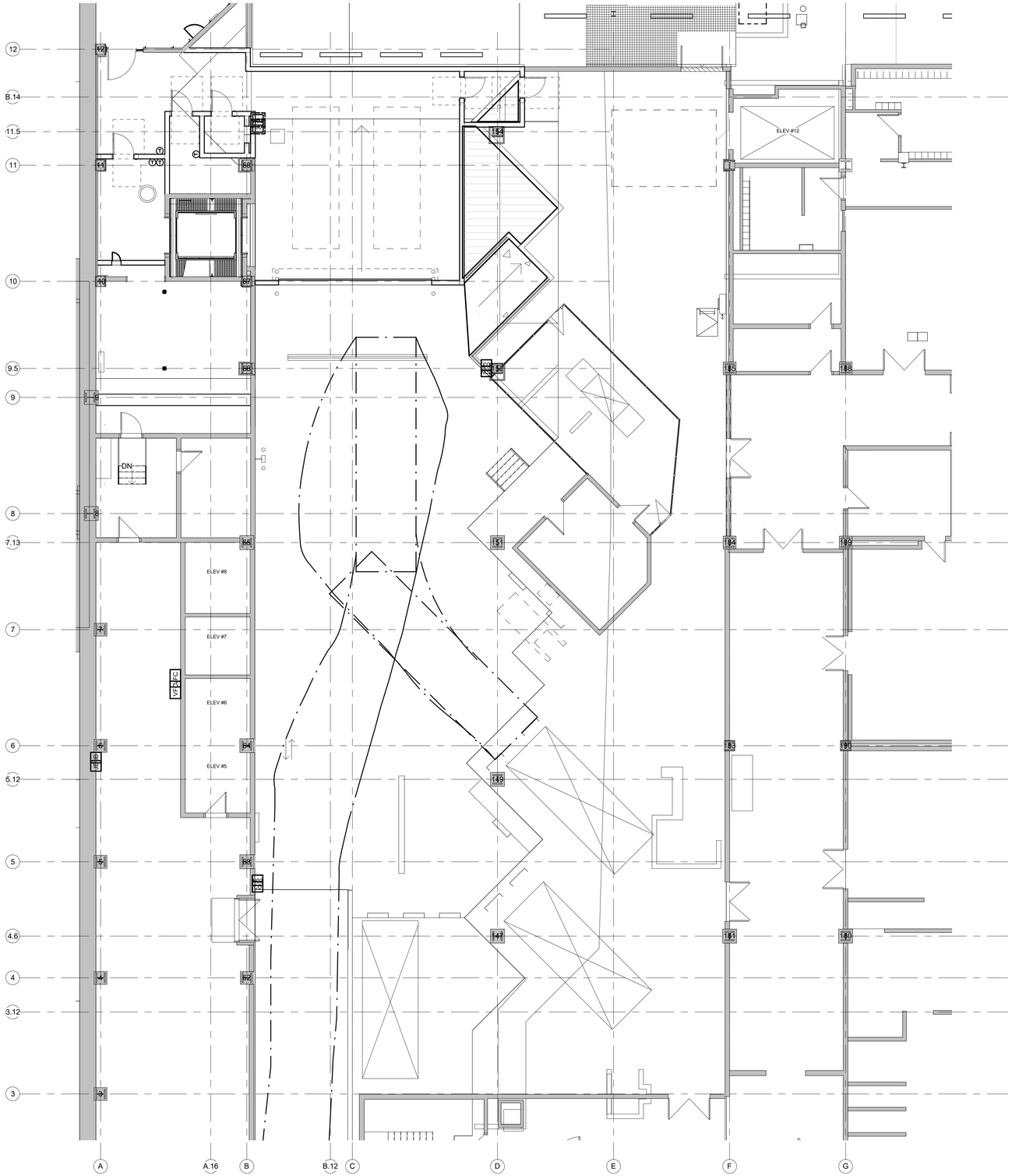
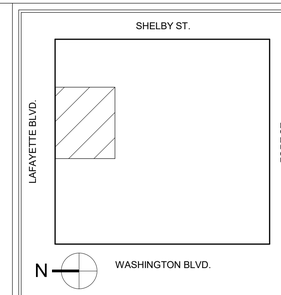


LEGEND

—— · —— LOADING TRUCK DRIVING PATH

N

1 / G 009 BASEMENT FLOOR - LOADING TRUCK DIAGRAM
1/8" = 1'-0"



KEY PLAN

GRAPHIC SCALE

1/8"=1'-0" 0 8' 16'

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

STAMP OR SEAL

STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047664
LICENSED ARCHITECT

OWNER IDENTIFICATION

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
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PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	BASEMENT FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	BASEMENT TRUCK DIAGRAM
SHEET NUMBER AND FILENAME	G 009

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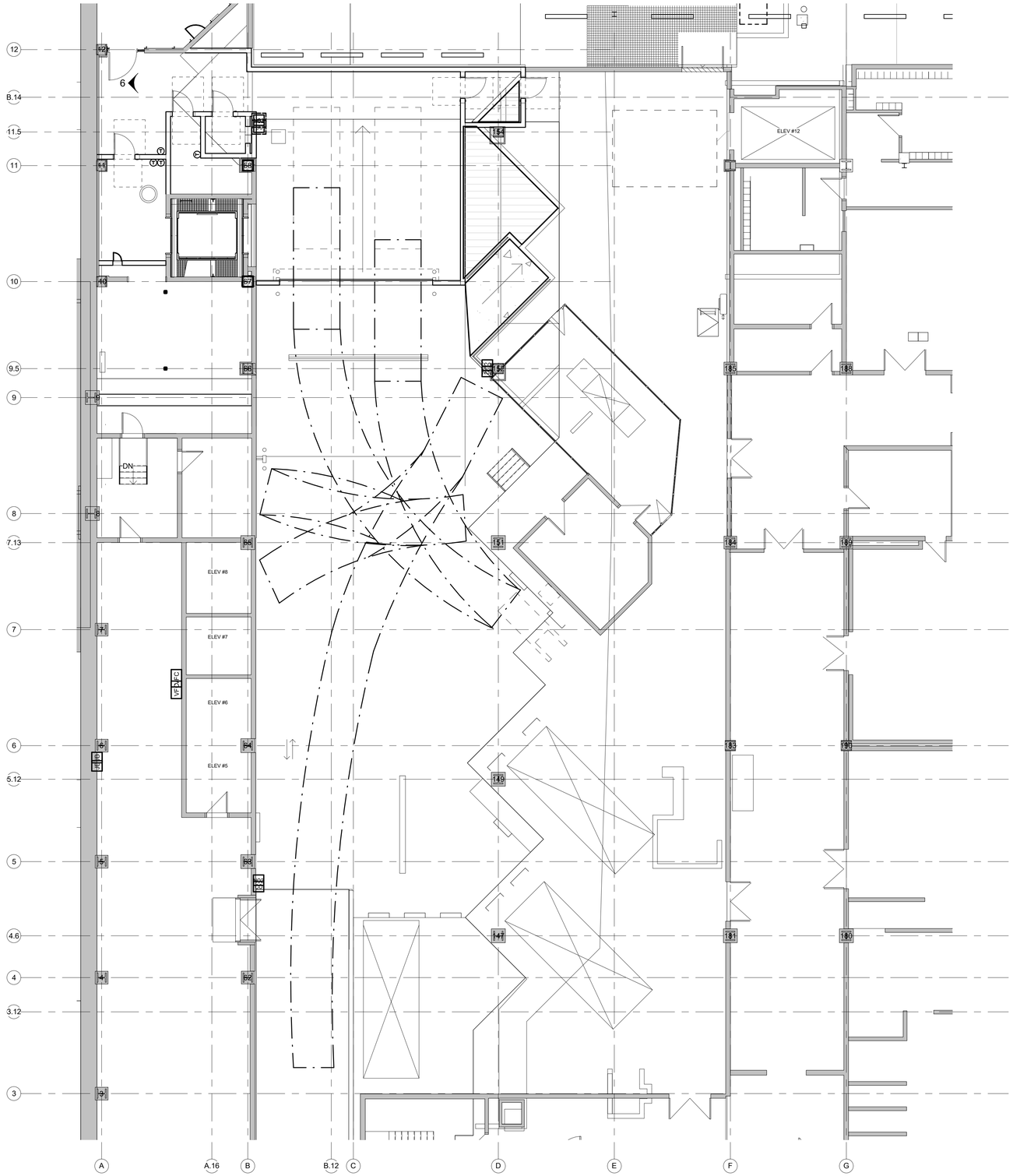


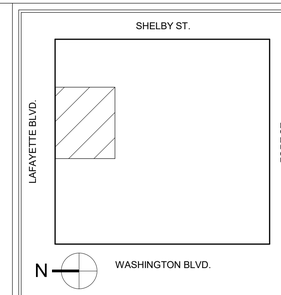
N

1 / G 010 BASEMENT FLOOR - USMS VAN DIAGRAM
1/8" = 1'-0"

LEGEND

USMS VEHICLE DRIVING PATH

OUTLINE OF USMS VAN (79.20"W X 244.10"L X 82.90"H)



KEY PLAN

1/8"=1'-0" 0 8' 16'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

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DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

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GSA PROJECT NO.	VMI00051
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SUBMISSION DATE	02/15/2023

PROJECT

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DISCIPLINE	ARCHITECTURAL
PLAN TYPE	BASEMENT USMS DIAGRAM
SHEET NUMBER AND FILENAME	G 010

SHEET

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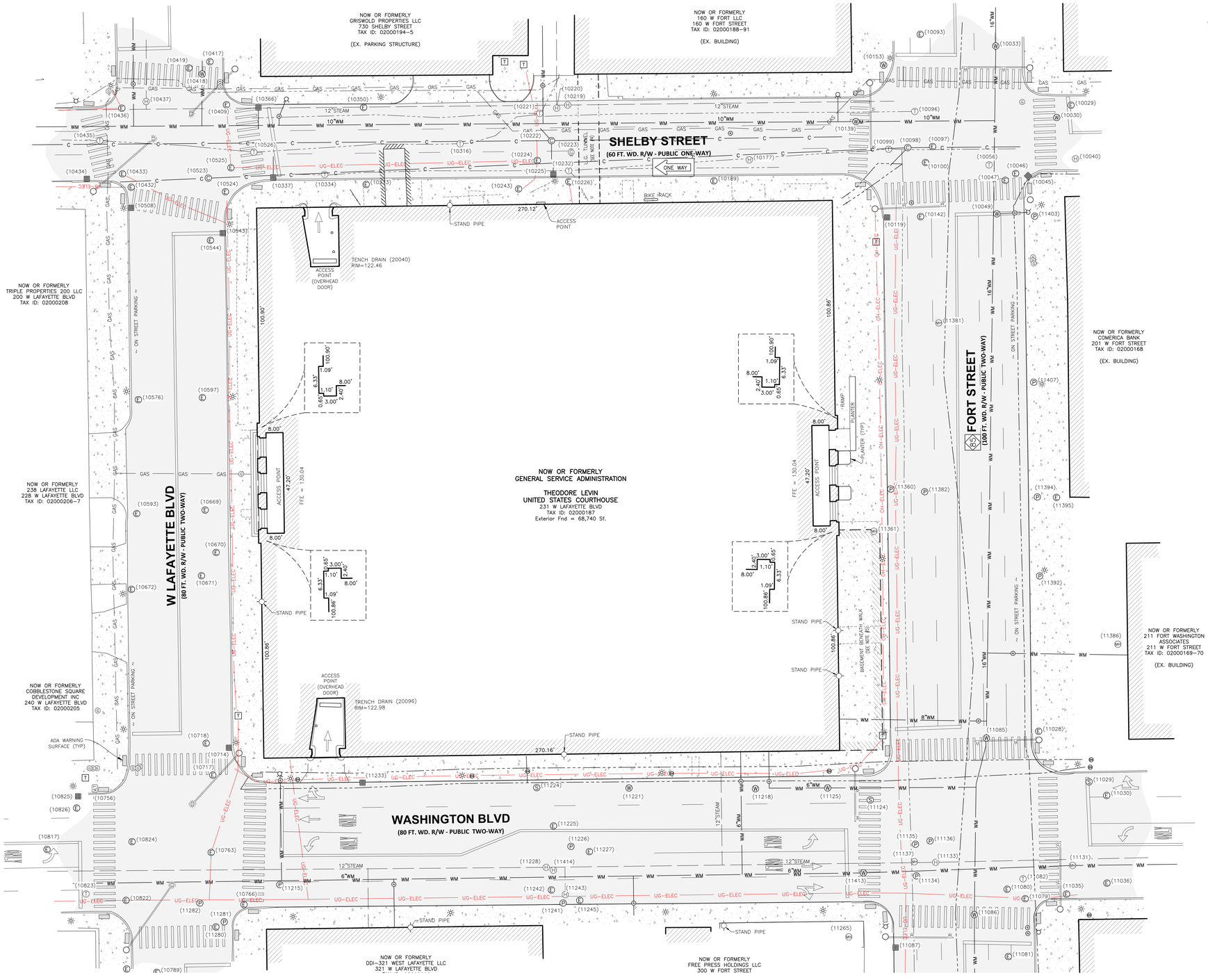
231 W. LAFAYETTE BLVD

UTILITY SURVEY

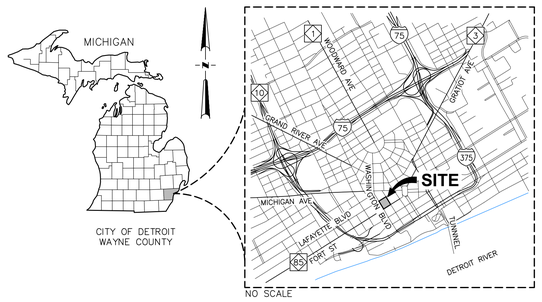
1"=20'

0 10 20 40

(30x42)



LOCATION MAP



EXISTING LEGEND

- UG TELE, MH, TELE PED, CABLE PED
- UG FIBER, PED, LINE MARKER
- UG ELEC, MH, TRANSFORMER, AC UNIT, METER
- OH ELEC, UTIL POLE, GUY WIRE
- GROUND LIGHT, POLE, POLE W/ ARM LT
- LIGHT MH, LT CTRL BOX, PH. BOOTH, PARK. METER
- ELEC HAND HOLE, OUTLET, SIGNAL MH, SIGNAL BOX
- UG GAS, MH, VALVE, LINE MARKER
- GAS WELL, METER, VENT
- WATER MAIN, MH, VALVE IN BOX, HYDRANT
- WATER WELL, METER, STOP BOX, POST INDICATOR VALVE
- IRRIGATION CONTROL VALVE, SPRINKLER HEAD
- STORM SEWER, MH, CB, INLET, YARD DRAIN
- CULVERT/ END SECTION
- SANITARY SEWER, MH, CLEAN OUT
- COMBINED SEWER, MH
- STEAM LINE, MH
- MISC. MANHOLE, HAND HOLE, HAND BOX
- SIGN, FLAG POLE, GUARD POST, ROCK
- SURVEY CONTROL POINT, BENCHMARK
- FOUND IRON ROD (FIR), FD MON, FD PK
- SET IRON ROD (SIR), SET PK, MAG NAIL
- SPOT ELEVATION
- CONTOUR
- FENCE
- GUARD RAIL
- ASPHALT
- CONCRETE

UTILITY SOURCE KEY

1. Miss Dig markings on the ground.
2. Observed Surface Evidence in conjunction with Plans provided by Utility owners.
3. Observed Surface Evidence & Manhole field measurements (as denoted in structure schedule)
4. Significant Anomaly (SA) * (as identified by Ground Penetrating Radar. Performed by: RXM Resources, LLC)
5. Possible Obstruction (PO) ** (as identified by Ground Penetrating Radar. Performed by: RXM Resources, LLC)

* Significant anomalies appearing in the data read-out from the ground penetrating radar (GPR) equipment, which have characteristics of the target facility items.

** Possible obstructions are anomalies appearing in the data read-out from the GPR equipment, which have very faint characteristics of the target facility items.

GPR Note:
Subsurface Imaging Radar (SIR), at this time, is only detecting differences in subsurface densities (dielectric constants), rather than the exact composition of the items beneath the surface. Although assumptions of these varying subsurface densities may be hypothesized, the only way to know for sure what the radar is detecting is to exposed and visually inspect the areas of concern.

MISCELLANEOUS NOTES

1. The posted address on site is 231 W. Lafayette Blvd.
2. At the time of this survey, there was no observable evidence of any recent changes in street right-of-way lines either completed or proposed, and available from the controlling jurisdiction.
3. At the time of this survey, there was no observable evidence of any recent street or sidewalk construction or repairs on the subject property side of the streets.
4. The underground (U.G.) tunnel indicated on the East side of the building beneath Shelby Street is shown based on a combination of "SA" markings and an original Site Plan drawing for the Courthouse dated 1932 indicating a tunnel between the courthouse building and the Federal Reserve Bank on the opposite side of Shelby Street. This is also shown on Detroit Thermal's Steam Line Plans, indicating a sleeve where the line runs through the tunnel. Actual survey measurements have not been taken neither exterior nor interior to guarantee the accuracy of this underground area.
5. The subbasement beneath the sidewalk on the South Side of the Courthouse along Fort Street is shown based on a combination of "SA" markings and record drawings and CAD files indicating the basement extending out toward Fort Street. Actual survey measurements have not been taken neither exterior nor interior to guarantee the accuracy of this underground area.

KEY PLAN

GRAPHIC SCALE

1" = 20' 0 20' 40'

REVISION BLOCK

MARK	DATE	DESCRIPTION
1	9-15-16	Bulletin 001R- Corr. Final CD

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CONTRACT

A/E CONTRACT NO.	GS-05P-14-SV-C-0056
DELIVER ORDER NO.	
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

ENGINEERS · SURVEYORS · CONSULTANTS · LANDSCAPE ARCHITECTS · LAND PLANNERS

Monument Engineering Group Associates, Inc.

638 SOUTH GRAND AVE.
FOWLERVILLE,
MICHIGAN 48836
(OFFICE) 517-223-3512
(FAX) 517-223-9987

STAMP OR SEAL

STATE OF MICHIGAN
ALLAN W. PRUSS
PROFESSIONAL SURVEYOR
NO. 44284
LICENSED PROFESSIONAL SURVEYOR

OWNER IDENTIFICATION

GSA

General Services Administration
Public Buildings Service
Great Lakes

Professional Services Division
John C. Kluczynski Federal Building
230 South Dearborn St.
Chicago, IL 60604

BUILDING

BUILDING NAME	Theodore Levin US Courthouse
ADDRESS	231 West Lafayette Blvd
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	Theodore Levin US Courthouse Prospectus Alteration
GSA PROJECT NO.	GS-05P-14-SV-C-0056
SUBMISSION STAGE	
SUBMISSION DATE	7-22-16

SHEET

DRAWN BY	
CHECKED BY	
FLOOR NO.	
DISCIPLINE	
PLAN TYPE	
SHEET NUMBER AND FILENAME	V001

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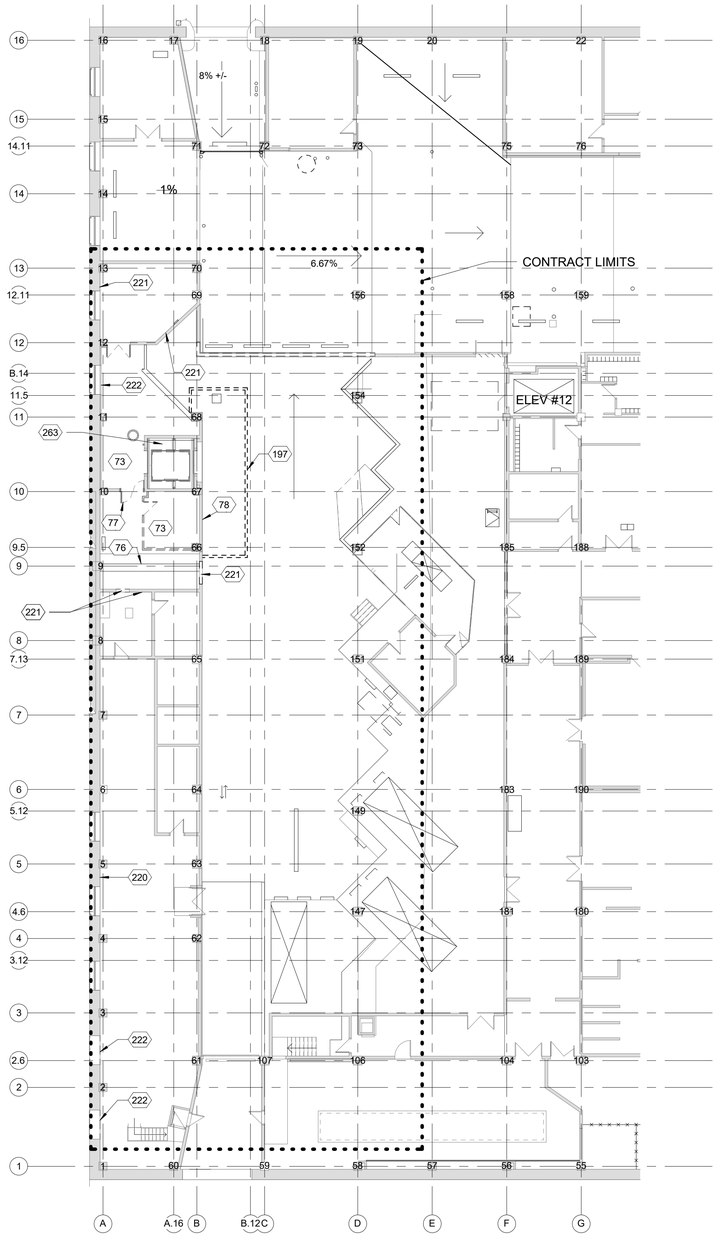


N

1 HAZ100 BASEMENT FLOOR HAZARDOUS MATERIALS - DEMO
1/16" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
2. CONTRACTOR SHALL PROTECT ALL EXISTING CONSTRUCTION AND FINISHES TO REMAIN THROUGHOUT THE PREMISES AND IN ADJACENT AREAS.
3. EXISTING FINISHES ON COLUMNS AND CORE WALLS ARE TO REMAIN U.N.O.
4. DO NOT SCALE DRAWINGS OR MODEL TO OBTAIN REQUIRED DIMENSIONAL INFORMATION. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. ALL EXISTING CONDITIONS ARE TO BE FIELD VERIFIED BY THE G.C. AND ANY DISCREPANCIES BROUGHT TO THE ARCHITECT'S ATTENTION.
5. THE CONTRACTOR SHALL MAINTAIN EGRESS PATHS FROM THE CONSTRUCTION SITE AT ALL TIMES. PROVIDE TEMPORARY DOORS AND PARTITIONS AS REQUIRED WHERE DOORS TO GENERAL CORRIDORS ARE NOTED TO BE REPLACED.
6. CONTRACTOR TO PROVIDE SIGNAGE, DUST PROTECTION, AND FLOOR PROTECTION AS REQUIRED FROM THE PROJECT AREA THROUGH PUBLIC CORRIDORS AND ELEVATOR LOBBIES TO PROTECT EXISTING FINISHES TO REMAIN.
7. A HAZARDOUS MATERIALS ASSESSMENT OF THE EXISTING BUILDING IN RELATIONSHIP TO THE CONTRACT LIMITS HAS BEEN COMPLETED. REFER TO THE PRE-ALTERATION AND ASSESSMENT REPORT WITHIN THE CONTRACT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. MAINTAIN ALL LIFE-SAFETY RELATED SYSTEMS IN FULLY OPERATIONAL STATE THROUGHOUT ALL DEMOLITION AND CONSTRUCTION WORK, INCLUDING BUT NOT LIMITED TO FIRE ALARM SYSTEM INCLUDING PANELS, SIGNAL/NOTIFICATION DEVICES, FIRE SUPPRESSION SYSTEM, AND EMERGENCY LIGHTING.
9. WORK OUTSIDE THE CONTRACT LIMITS MAY BE REQUIRED FOR TIE-INS AND CONNECTIONS. CONTRACTOR TO WORK OUTSIDE OF THE CONTRACT LIMITS AS REQUIRED TO COMPLETE THE ENTIRE SCOPE OF WORK FOR THE PROJECT.
10. COORDINATE WORK WITH ALL OTHER TRADES.

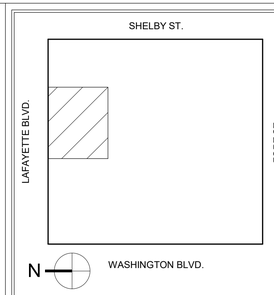
LEGEND

REMOVE EXISTING ASBESTOS FLOOR TILE.

REMOVE EXISTING ASBESTOS FLOOR TILE AND MASTIC.

KEYED NOTES

NUMBER	DESCRIPTION
73	REMOVE ASBESTOS-CONTAINING PIPE AND FITTING INSULATION. REFER TO SPECIFICATION SECTION 02 82 00 AND PRE-ALTERATION REPORT IN SPECIFICATION APPENDIX A.
76	LEAD BASED PAINT IS PRESENT ON PIPING TO BE REMOVED/RELOCATED. REFER TO SPECIFICATION SECTION 02 83 00 AND PRE-ALTERATION REPORT IN SPECIFICATION APPENDIX A.
77	LEAD BASED PAINT IS PRESENT ON THE METAL DOOR FRAME TO BE REMOVED. REFER TO SPECIFICATION SECTION 02 83 00 AND PRE-ALTERATION REPORT IN SPECIFICATION APPENDIX A.
78	LEAD BASED PAINT IS PRESENT ON THE METAL WALL PLATE. MITIGATE AS REQUIRED FOR NEW CONSTRUCTION. REFER TO SPECIFICATION SECTION 02 83 00 AND PRE-ALTERATION REPORT IN SPECIFICATION APPENDIX A.
197	CONSTRUCT ASBESTOS ABATEMENT ENCLOSURE IN THIS APPROXIMATE LOCATION TO ALLOW FOR CONTINUED USE OF THE LOADING DOCK AREA AND ACCESS TO THE NORTH SIDE OF ELEVATOR 9.
220	ABATE ASBESTOS CONTAINING PIPE AND FITTING INSULATION AT FIRE DEPARTMENT CONNECTION TO BE RELOCATED. REFER TO SPECIFICATION SECTION 02 82 00 AND PRE-ALTERATION REPORT IN SPECIFICATION APPENDIX A.
221	WALL IS ASSUMED TO BE PAINTED WITH LEAD BASED PAINT. REMOVE AS REQUIRED FOR NEW WORK. REFER TO SPECIFICATION SECTION 02 83 00 AND PRE-ALTERATION REPORT IN SPECIFICATION APPENDIX A.
222	WINDOW FRAME IS PAINTED WITH LEAD BASED PAINT. REMOVE AS REQUIRED FOR NEW WORK. REFER TO SPECIFICATION SECTION 02 83 00 AND PRE-ALTERATION REPORT IN SPECIFICATION APPENDIX A.
263	OFF-WHITE PAINTED WALLS IN ELEVATOR PIT AND HOISTWAY ARE PAINTED WITH LEAD BASED PAINT. REMOVE AS REQUIRED FOR NEW WORK. REFER TO SPECIFICATION SECTION 02 83 00 AND PRE-ALTERATION REPORT IN SPECIFICATION APPENDIX A.



KEY PLAN

1/16"=1'-0" 0 16' 32'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

CONSULTANT IDENTIFICATION

STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047664
LICENSED ARCHITECT

STAMP OR SEAL

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John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	BASEMENT FLOOR
DISCIPLINE	HAZARDOUS MATERIAL
PLAN TYPE	DEMO FLOOR PLAN
SHEET NUMBER AND FILENAME	HAZ100

SHEET

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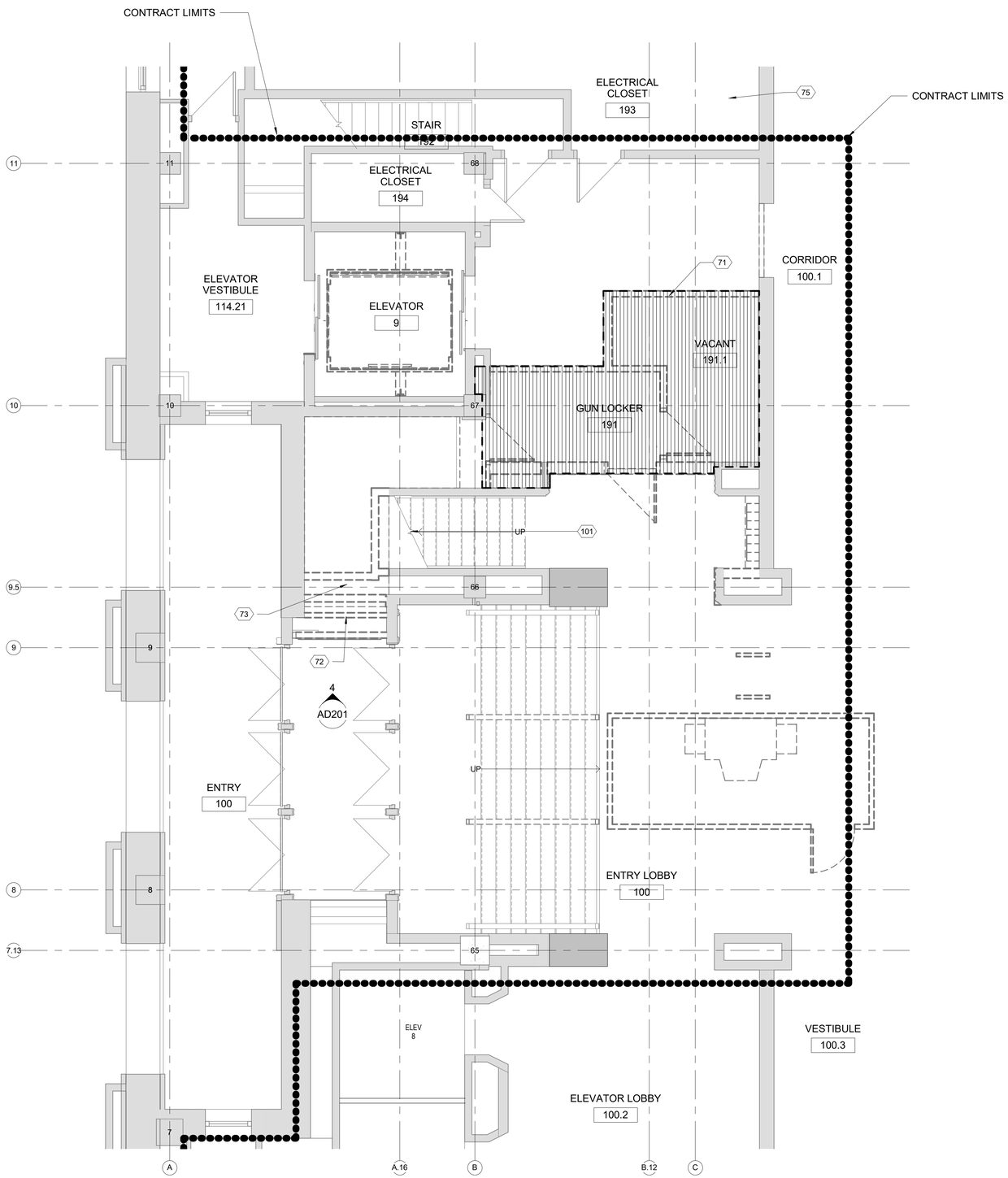

LAFAYETTE BLVD. ENTRANCE
HAZARDOUS MATERIALS - DEMO
1 HAZ101 1/4" = 1'-0"

GENERAL NOTES

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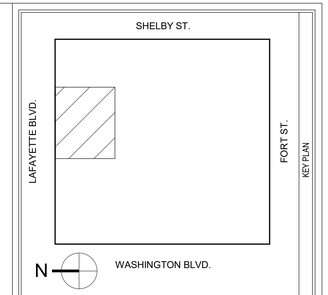
LEGEND

REMOVE EXISTING ASBESTOS FLOOR TILE.

REMOVE EXISTING ASBESTOS FLOOR TILE AND MASTIC.

KEYED NOTES

NUMBER	DESCRIPTION
71	REMOVE ASBESTOS-CONTAINING FLOOR TILE. MASTIC DOES NOT CONTAIN ASBESTOS. REFER TO SPECIFICATION SECTION 02 82 00 AND PRE-ALTERATION REPORT IN SPECIFICATION APPENDIX A.
72	REMOVE ASBESTOS-CONTAINING MATERIAL IN WALL BEHIND METAL BACKING OF UNIT HEATER. REFER TO SPECIFICATION SECTION 02 82 00 AND PRE-ALTERATION REPORT IN SPECIFICATION APPENDIX A.
73	REMOVE ASBESTOS-CONTAINING PIPE AND FITTING INSULATION. REFER TO SPECIFICATION SECTION 02 82 00 AND PRE-ALTERATION REPORT IN SPECIFICATION APPENDIX A.
75	TAKE PRECAUTIONS TO AVOID DISTURBING ASBESTOS-CONTAINING MASTIC WHICH IS PRESENT, NO FLOOR TILE IS PRESENT. REFER TO SPECIFICATION SECTION 02 82 00 AND PRE-ALTERATION REPORT IN SPECIFICATION APPENDIX A.
101	ASBESTOS - CONTAINING FLOOR TILE IS PRESENT ON THE FIRST FLOOR AND LEAD-CONTAINING PAINT (LCP) IS PRESENT ON THE CEILING IN THE BASEMENT IN THIS CORING LOCATION. THE ASBESTOS WILL NEED TO BE REMOVED IN ACCORDANCE 02 82 00 AND CORING WILL NEED TO BE PERFORMED IN ACCORDANCE WITH 02 83 00 FOR LCP.



KEY PLAN

1/4"=1'-0" 0 4' 8'
GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

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GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	HAZARDOUS MATERIAL
PLAN TYPE	DEMO FLOOR PLAN
SHEET NUMBER AND FILENAME	HAZ101

SHEET

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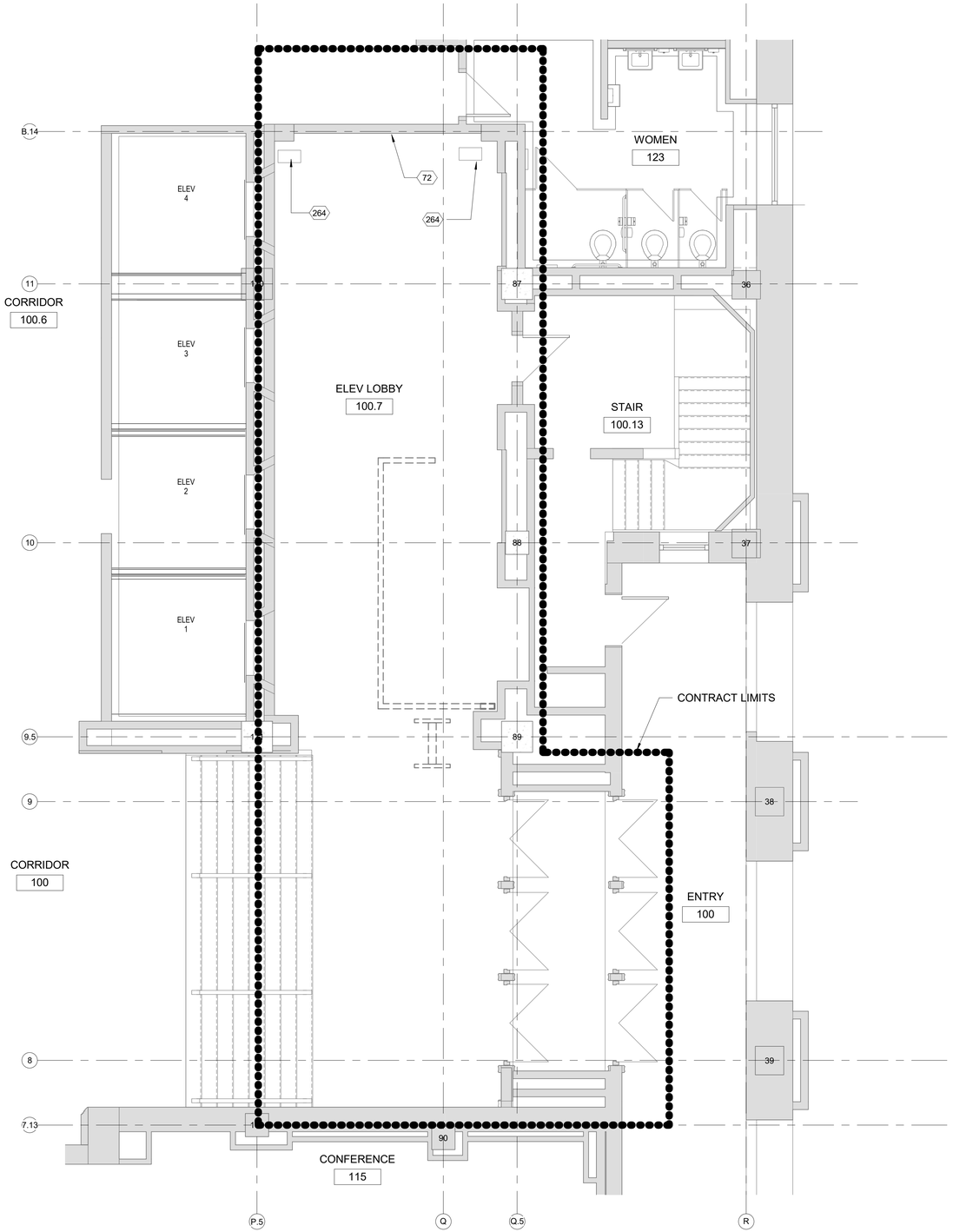

N

1 HAZ102 FORT ST. ENTRANCE HAZARDOUS MATERIALS - DEMO
1/4" = 1'-0"

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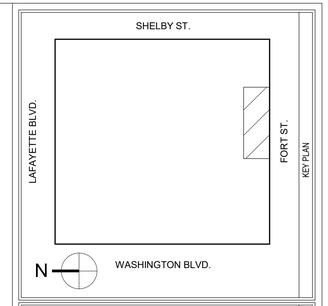
KEYED NOTES

NUMBER	DESCRIPTION
72	REMOVE ASBESTOS-CONTAINING MATERIAL IN WALL BEHIND METAL BACKING OF UNIT HEATER. REFER TO SPECIFICATION SECTION 02 82 00 AND PRE-ALTERATION REPORT IN SPECIFICATION APPENDIX A.
264	LEAD-CONTAINING PAINT (LCP) IS PRESENT ON THE CEILING IN THE BASEMENT IN THIS CORING LOCATION. THE CORING WILL NEED TO BE PERFORMED IN ACCORDANCE WITH 02 83 00 FOR LCP.



KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

CONSULTANT IDENTIFICATION

STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047664
LICENSED ARCHITECT

STAMP OR SEAL

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	HAZARDOUS MATERIAL
PLAN TYPE	DEMO FLOOR PLAN
SHEET NUMBER AND FILENAME	HAZ102

SHEET

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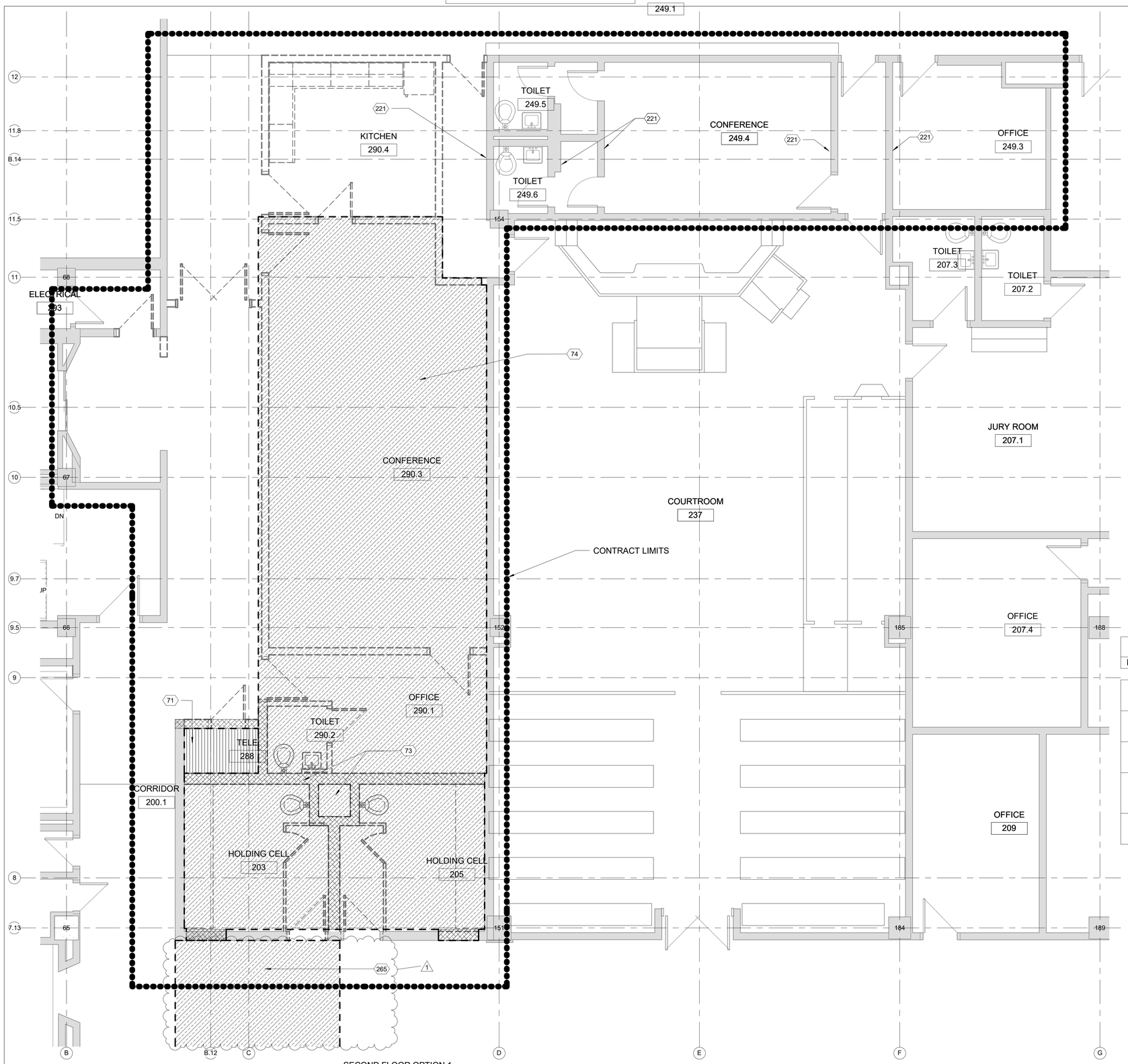


SECOND FLOOR OPTION 1
HAZARDOUS MATERIALS - DEMO
1 HAZ103 1/4" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
2. CONTRACTOR SHALL PROTECT ALL EXISTING CONSTRUCTION AND FINISHES TO REMAIN THROUGHOUT THE PREMISES AND IN ADJACENT AREAS.
3. EXISTING FINISHES ON COLUMNS AND CORE WALLS ARE TO REMAIN U.N.O.
4. DO NOT SCALE DRAWINGS OR MODEL TO OBTAIN REQUIRED DIMENSIONAL INFORMATION. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. ALL EXISTING CONDITIONS ARE TO BE FIELD VERIFIED BY THE G.C. AND ANY DISCREPANCIES BROUGHT TO THE ARCHITECT'S ATTENTION.
5. THE CONTRACTOR SHALL MAINTAIN EGRESS PATHS FROM THE CONSTRUCTION SITE AT ALL TIMES. PROVIDE TEMPORARY DOORS AND PARTITIONS AS REQUIRED WHERE DOORS TO GENERAL CORRIDORS ARE NOTED TO BE REPLACED.
6. CONTRACTOR TO PROVIDE SIGNAGE, DUST PROTECTION, AND FLOOR PROTECTION AS REQUIRED FROM THE PROJECT AREA THROUGH PUBLIC CORRIDORS AND ELEVATOR LOBBIES TO PROTECT EXISTING FINISHES TO REMAIN.
7. A HAZARDOUS MATERIALS ASSESSMENT OF THE EXISTING BUILDING IN RELATIONSHIP TO THE CONTRACT LIMITS HAS BEEN COMPLETED. REFER TO THE PRE-ALTERATION AND ASSESSMENT REPORT WITHIN THE CONTRACT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. MAINTAIN ALL LIFE-SAFETY RELATED SYSTEMS IN FULLY OPERATIONAL STATE THROUGHOUT ALL DEMOLITION AND CONSTRUCTION WORK, INCLUDING BUT NOT LIMITED TO FIRE ALARM SYSTEM INCLUDING PANELS, SIGNAL/NOTIFICATION DEVICES, FIRE SUPPRESSION SYSTEM, AND EMERGENCY LIGHTING.
9. WORK OUTSIDE THE CONTRACT LIMITS MAY BE REQUIRED FOR TIE-INS AND CONNECTIONS. CONTRACTOR TO WORK OUTSIDE OF THE CONTRACT LIMITS AS REQUIRED TO COMPLETE THE ENTIRE SCOPE OF WORK FOR THE PROJECT.
10. COORDINATE WORK WITH ALL OTHER TRADES.

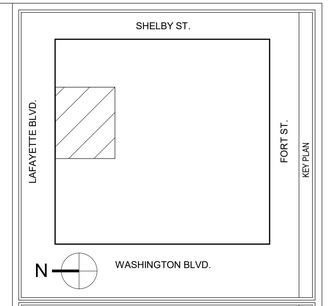
LEGEND

REMOVE EXISTING ASBESTOS FLOOR TILE.

REMOVE EXISTING ASBESTOS FLOOR TILE AND MASTIC.

KEYED NOTES

NUMBER	DESCRIPTION
71	REMOVE ASBESTOS-CONTAINING FLOOR TILE. MASTIC DOES NOT CONTAIN ASBESTOS. REFER TO SPECIFICATION SECTION 02 82 00 AND PRE-ALTERATION REPORT IN SPECIFICATION APPENDIX A.
73	REMOVE ASBESTOS-CONTAINING PIPE AND FITTING INSULATION. REFER TO SPECIFICATION SECTION 02 82 00 AND PRE-ALTERATION REPORT IN SPECIFICATION APPENDIX A.
74	REMOVE ASBESTOS-CONTAINING FLOOR TILE AND MASTIC. REFER TO SPECIFICATION SECTION 02 82 00 AND PRE-ALTERATION REPORT IN SPECIFICATION APPENDIX A.
221	WALL IS ASSUMED TO BE PAINTED WITH LEAD BASED PAINT. REMOVE AS REQUIRED FOR NEW WORK. REFER TO SPECIFICATION SECTION 02 83 00 AND PRE-ALTERATION REPORT IN SPECIFICATION APPENDIX A.
265	REMOVE ASBESTOS CONTAINING FLOOR FILLER AND BLACK MASTIC. REFER TO SPECIFICATION 02 82 00 AND PRE-ALTERATION REPORT IN SPECIFICATION APPENDIX A.



KEY PLAN

GRAPHIC SCALE

1/4"=1'-0" 0 4' 8'

REVISION BLOCK

MARK	DATE	DESCRIPTION
1	02/15/2023	100% Revision

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

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BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	SECOND FLOOR
DISCIPLINE	HAZARDOUS MATERIAL
PLAN TYPE	DEMO FLOOR PLAN
SHEET NUMBER AND FILENAME	HAZ103

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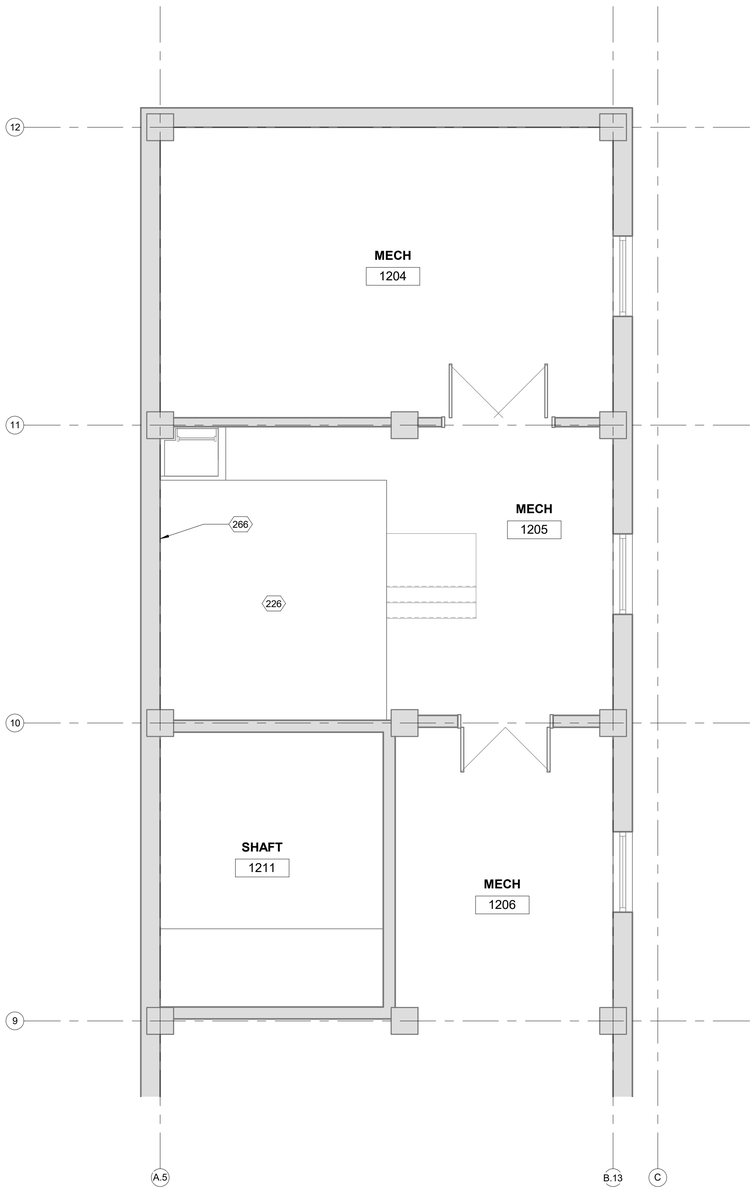
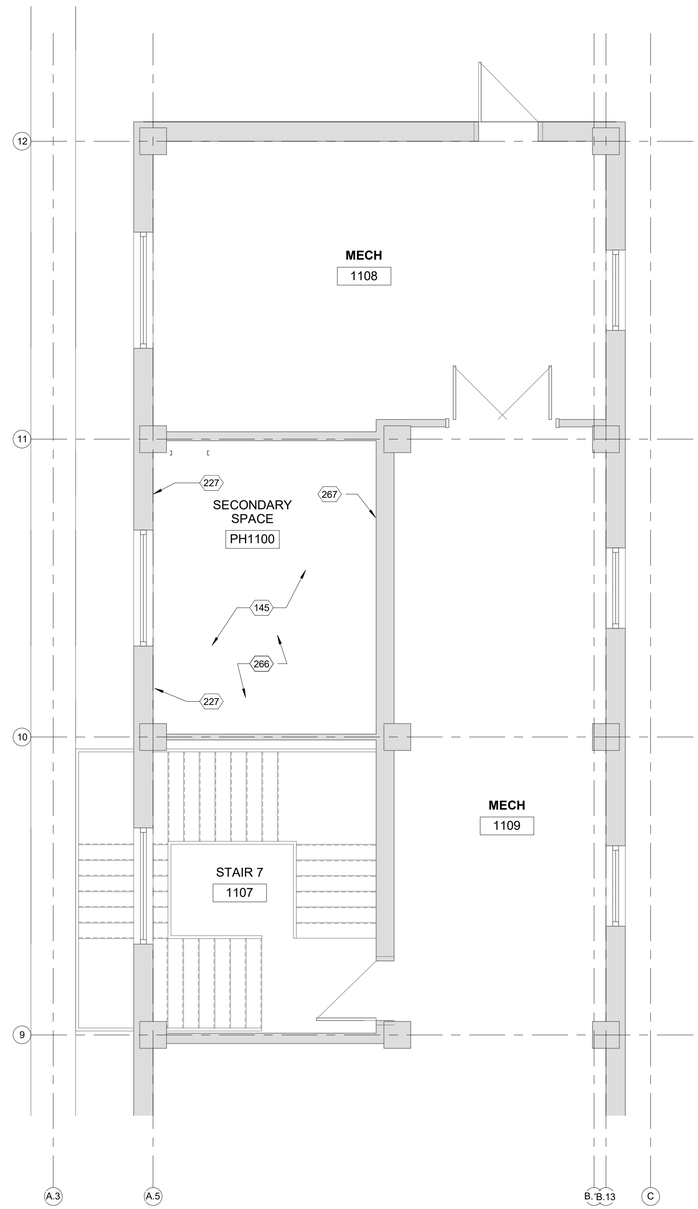


N

2 HAZ104 TWELFTH FLOOR NORTH PENTHOUSE HAZARDOUS MATERIALS - DEMO
1/4" = 1'-0"



N

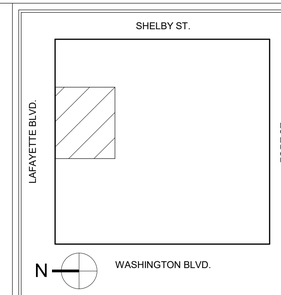
1 HAZ104 ELEVENTH FLOOR ELEVATOR 9 SECONDARY SPACE HAZARDOUS MATERIALS - DEMO
1/4" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
2. CONTRACTOR SHALL PROTECT ALL EXISTING CONSTRUCTION AND FINISHES TO REMAIN THROUGHOUT THE PREMISES AND IN ADJACENT AREAS.
3. EXISTING FINISHES ON COLUMNS AND CORE WALLS ARE TO REMAIN U.N.O.
4. DO NOT SCALE DRAWINGS OR MODEL TO OBTAIN REQUIRED DIMENSIONAL INFORMATION. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. ALL EXISTING CONDITIONS ARE TO BE FIELD VERIFIED BY THE G.C. AND ANY DISCREPANCIES BROUGHT TO THE ARCHITECT'S ATTENTION.
5. THE CONTRACTOR SHALL MAINTAIN EGRESS PATHS FROM THE CONSTRUCTION SITE AT ALL TIMES. PROVIDE TEMPORARY DOORS AND PARTITIONS AS REQUIRED WHERE DOORS TO GENERAL CORRIDORS ARE NOTED TO BE REPLACED.
6. CONTRACTOR TO PROVIDE SIGNAGE, DUST PROTECTION, AND FLOOR PROTECTION AS REQUIRED FROM THE PROJECT AREA THROUGH PUBLIC CORRIDORS AND ELEVATOR LOBBIES TO PROTECT EXISTING FINISHES TO REMAIN.
7. A HAZARDOUS MATERIALS ASSESSMENT OF THE EXISTING BUILDING IN RELATIONSHIP TO THE CONTRACT LIMITS HAS BEEN COMPLETED. REFER TO THE PRE-ALTERATION AND ASSESSMENT REPORT WITHIN THE CONTRACT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. MAINTAIN ALL LIFE-SAFETY RELATED SYSTEMS IN FULLY OPERATIONAL STATE THROUGHOUT ALL DEMOLITION AND CONSTRUCTION WORK, INCLUDING BUT NOT LIMITED TO FIRE ALARM SYSTEM INCLUDING PANELS, SIGNAL/NOTIFICATION DEVICES, FIRE SUPPRESSION SYSTEM, AND EMERGENCY LIGHTING.
9. WORK OUTSIDE THE CONTRACT LIMITS MAY BE REQUIRED FOR TIE-INS AND CONNECTIONS. CONTRACTOR TO WORK OUTSIDE OF THE CONTRACT LIMITS AS REQUIRED TO COMPLETE THE ENTIRE SCOPE OF WORK FOR THE PROJECT.
10. COORDINATE WORK WITH ALL OTHER TRADES.

KEYED NOTES

NUMBER	DESCRIPTION
145	REMOVE APPROXIMATELY 100 SQ.FT. OF FLAKING LEAD CONTAINING PAINT. REFER TO SPECIFICATION 02 83 00 AND PRE-ALTERATION REPORT IN SPECIFICATION APPENDIX A.
226	GRAY CONCRETE FLOOR PAINT IS LEAD BASED PAINT. REMOVE AS REQUIRED FOR NEW WORK. REFER TO SPECIFICATION SECTION 02 83 00 AND PRE-ALTERATION REPORT IN SPECIFICATION APPENDIX A.
227	ASBESTOS - CONTAINING PIPING AND FITTING INSULATION PRESENT. CONTRACTOR TO TAKE PRECAUTION NOT TO DISTURB MATERIAL. ABATE AS REQUIRED FOR NEW WORK. REFER TO SPECIFICATION SECTION 02 82 00 AND PRE-ALTERATION REPORT IN SPECIFICATION APPENDIX A.
266	WHITE BRICK WALLS AND BLACK BEAMS ARE PAINTED WITH LEAD CONTAINING PAINT. REMOVE AS REQUIRED FOR NEW WORK. REFER TO SPECIFICATION SECTION 02 83 00 AND PRE-ALTERATION REPORT IN SPECIFICATION APPENDIX A.
267	EXISTING PIPE INSULATION WITHIN THE ELEVATOR 9 MACHINE ROOM SECONDARY SPACE CONTAINS ASBESTOS. TAKE PRECAUTION TO NOT DISTURB MATERIAL. PIPING AND FITTINGS ARE SCHEDULED TO REMAIN.



KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
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Royal Oak, MI 48067
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DESIGNER IDENTIFICATION

CONSULTANT IDENTIFICATION

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Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	ELEVENTH / TWELFTH FLOOR
DISCIPLINE	HAZARDOUS MATERIAL
PLAN TYPE	DEMO FLOOR PLAN
SHEET NUMBER AND FILENAME	HAZ104

SHEET

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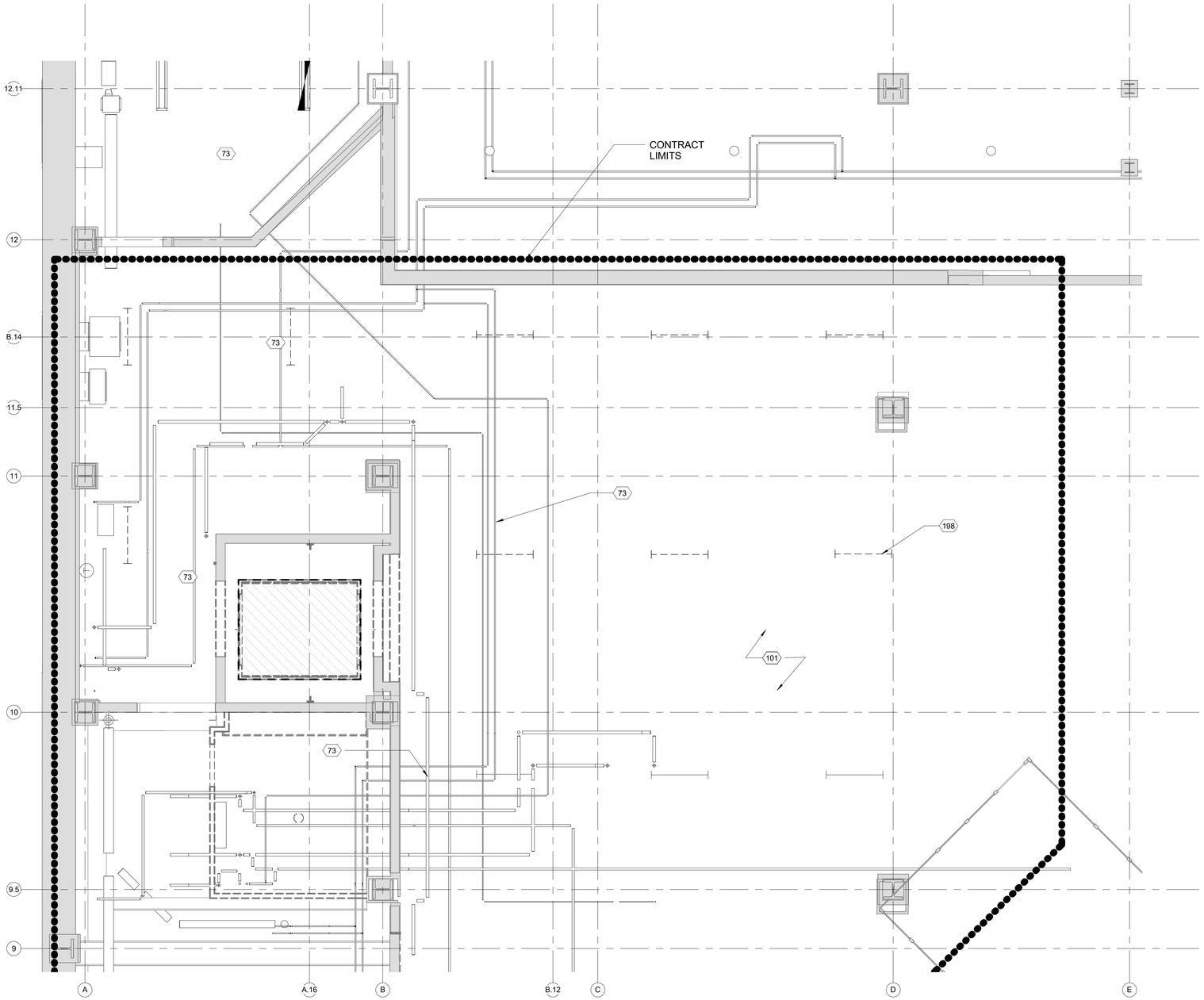

N

1 HAZ105 VEHICLE SALLYPORT HAZARDOUS MATERIALS REFLECTED CEILING PLAN - DEMO
1/4" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
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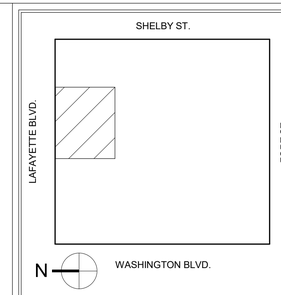
10. COORDINATE WORK WITH ALL OTHER TRADES.
11. HISTORIC PLASTER CEILING IS PRESUMED TO BE PRESENT IN AREAS OF WORK UNO. TYP PLASTER CEILING IS 19'-0" A.F.F. (1ST FLOOR) AND 16'- 4" (2ND FLOOR). REUSE EXISTING OPENINGS IN PLASTER CEILING WHEN POSSIBLE.

KEYED NOTES

NUMBER	DESCRIPTION
73	REMOVE ASBESTOS-CONTAINING PIPE AND FITTING INSULATION. REFER TO SPECIFICATION SECTION 02 82 00 AND PRE-ALTERATION REPORT IN SPECIFICATION APPENDIX A.
101	ASBESTOS - CONTAINING FLOOR TILE IS PRESENT ON THE FIRST FLOOR AND LEAD-CONTAINING PAINT (LCP) IS PRESENT ON THE CEILING IN THE BASEMENT IN THIS CORING LOCATION. THE ASBESTOS WILL NEED TO BE REMOVED IN ACCORDANCE 02 82 00 AND CORING WILL NEED TO BE PERFORMED IN ACCORDANCE WITH 02 83 00 FOR LCP.
198	PROPERLY REMOVE AND DISPOSE OF FLUORESCENT LAMPS AND BALLASTS - TYPICAL ALL FIXTURES. REFER TO SPECIFICATION 02 08 70.



KEY PLAN

GRAPHIC SCALE

1/4"=1'-0" 0 4' 8'

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

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Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	BASEMENT FLOOR
DISCIPLINE	HAZARDOUS MATERIAL
PLAN TYPE	DEMO CEILING PLAN
SHEET NUMBER AND FILENAME	HAZ105

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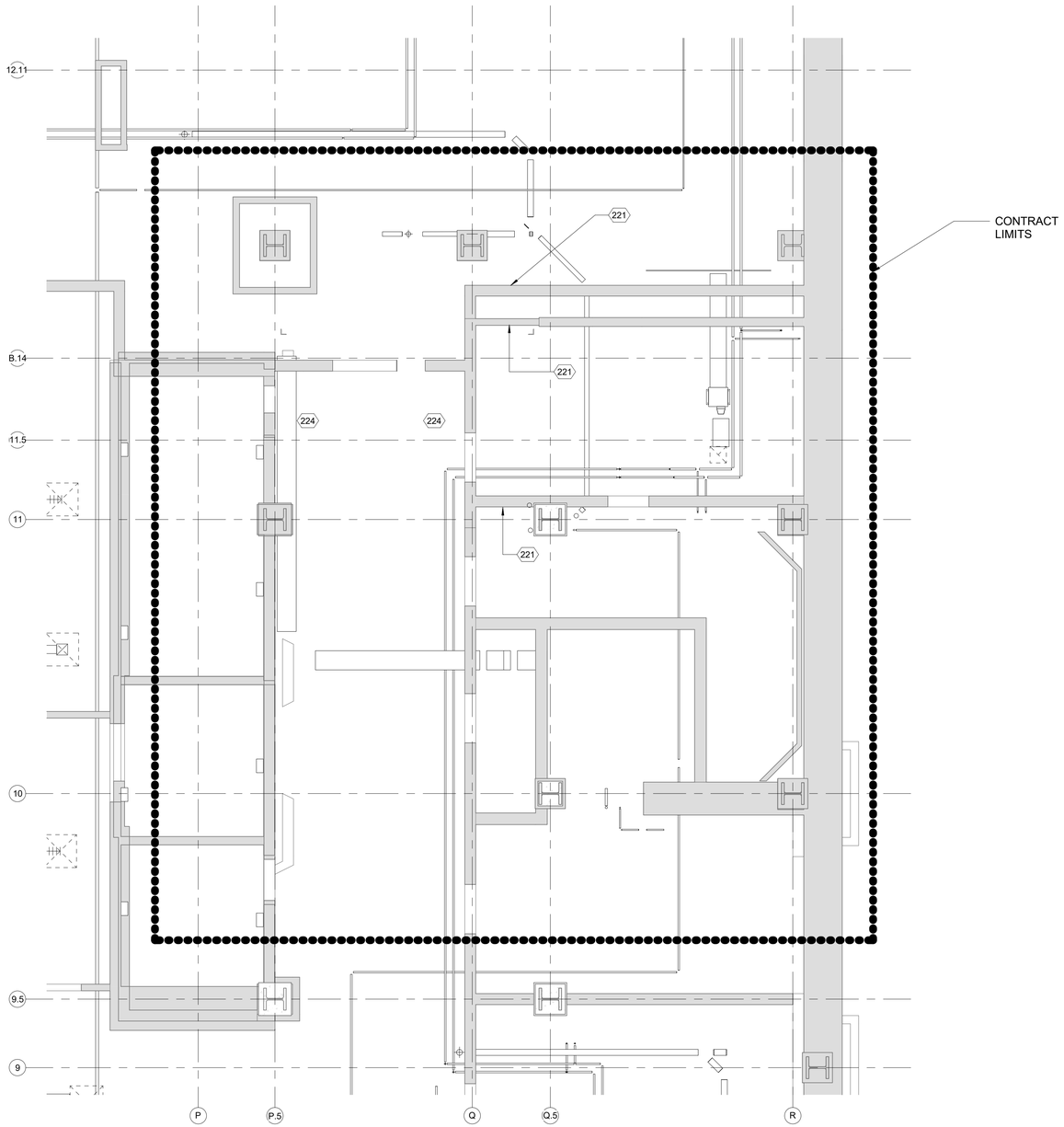

N

1
HAZ106

BASEMENT FLOOR FORT STREET HAZARDOUS MATERIALS REFLECTED CEILING PLAN - DEMO
1/4" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
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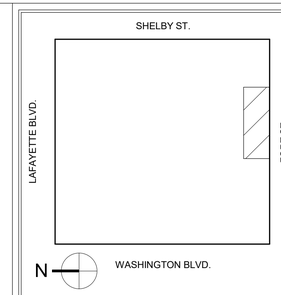
9. WORK OUTSIDE THE CONTRACT LIMITS MAY BE REQUIRED FOR TIE-INS AND CONNECTIONS. CONTRACTOR TO WORK OUTSIDE OF THE CONTRACT LIMITS AS REQUIRED TO COMPLETE THE ENTIRE SCOPE OF WORK FOR THE PROJECT.
10. COORDINATE WORK WITH ALL OTHER TRADES.
11. HISTORIC PLASTER CEILING IS PRESUMED TO BE PRESENT IN AREAS OF WORK UNO. TYP PLASTER CEILING IS 19'-0" A.F.F. (1ST FLOOR) AND 16'- 4" (2ND FLOOR). REUSE EXISTING OPENINGS IN PLASTER CEILING WHEN POSSIBLE.

KEYED NOTES

NUMBER	DESCRIPTION
221	WALL IS ASSUMED TO BE PAINTED WITH LEAD BASED PAINT. REMOVE AS REQUIRED FOR NEW WORK. REFER TO SPECIFICATION SECTION 02 83 00 AND PRE-ALTERATION REPORT IN SPECIFICATION APPENDIX A.
224	WHITE CONCRETE CEILING IS PAINTED WITH LEAD CONTAINING PAINT. REMOVE LEAD BASED PAINT AS REQUIRED FOR NEW OPENINGS FOR MECHANICAL AND PIPING. REFER TO SPECIFICATION SECTION 02 83 00 AND PRE-ALTERATION REPORT IN SPECIFICATION APPENDIX A.



KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

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BUILDING

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GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	BASEMENT FLOOR
DISCIPLINE	HAZARDOUS MATERIAL
PLAN TYPE	DEMO CEILING PLAN
SHEET NUMBER AND FILENAME	HAZ106

SHEET

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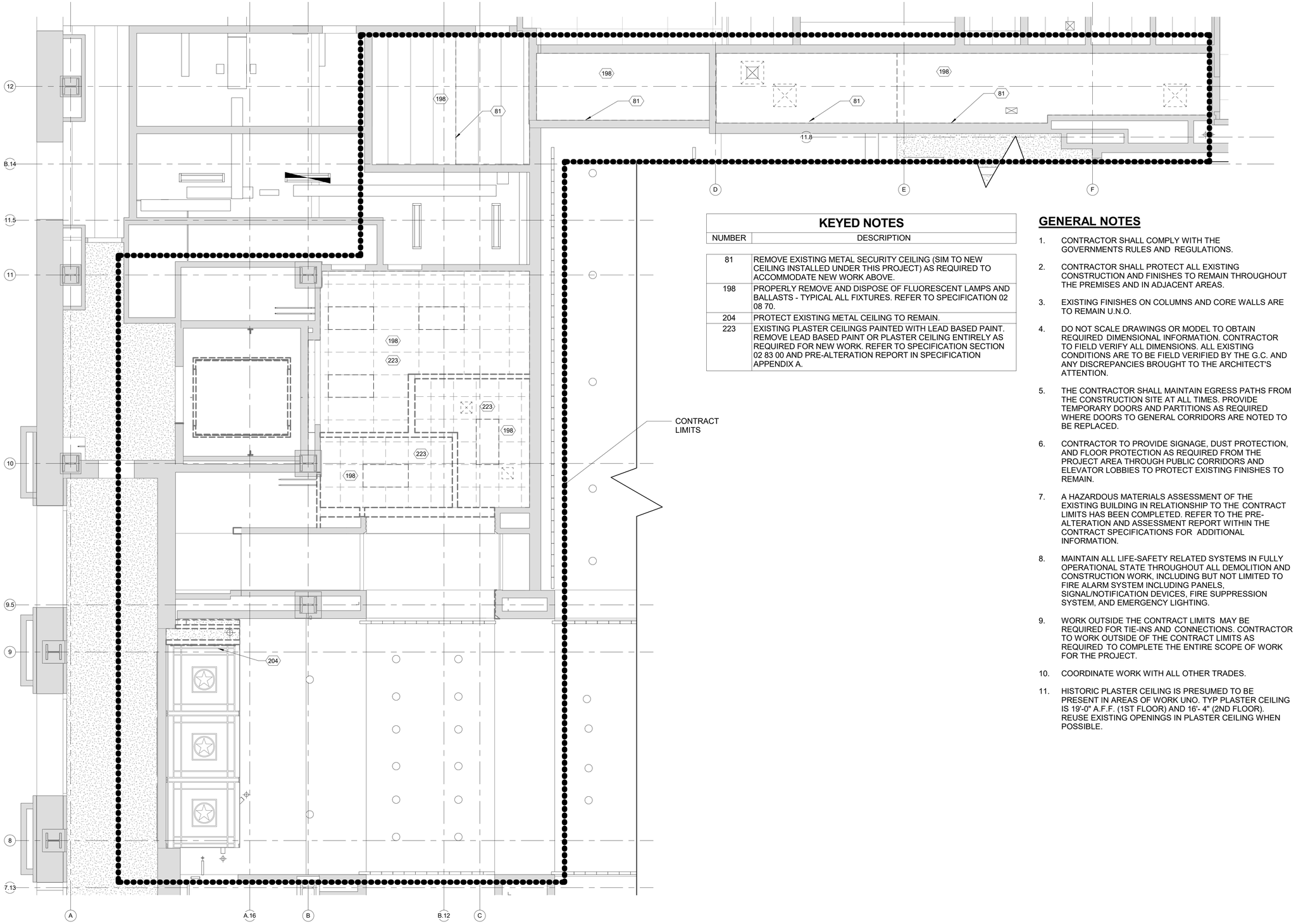

LAFAYETTE BLVD. ENTRANCE REFLECTED CEILING PLAN - DEMO

1 HAZ107 1/4" = 1'-0"

N

KEYED NOTES

NUMBER	DESCRIPTION
81	REMOVE EXISTING METAL SECURITY CEILING (SIM TO NEW CEILING INSTALLED UNDER THIS PROJECT) AS REQUIRED TO ACCOMMODATE NEW WORK ABOVE.
198	PROPERLY REMOVE AND DISPOSE OF FLUORESCENT LAMPS AND BALLASTS - TYPICAL ALL FIXTURES. REFER TO SPECIFICATION 02 08 70.
204	PROTECT EXISTING METAL CEILING TO REMAIN.
223	EXISTING PLASTER CEILINGS PAINTED WITH LEAD BASED PAINT. REMOVE LEAD BASED PAINT OR PLASTER CEILING ENTIRELY AS REQUIRED FOR NEW WORK. REFER TO SPECIFICATION SECTION 02 83 00 AND PRE-ALTERATION REPORT IN SPECIFICATION APPENDIX A.

GENERAL NOTES

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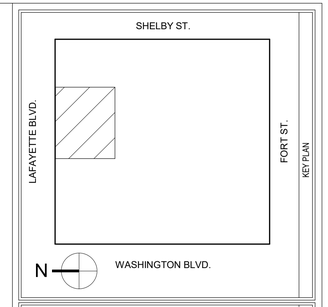
4. DO NOT SCALE DRAWINGS OR MODEL TO OBTAIN REQUIRED DIMENSIONAL INFORMATION. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. ALL EXISTING CONDITIONS ARE TO BE FIELD VERIFIED BY THE G.C. AND ANY DISCREPANCIES BROUGHT TO THE ARCHITECT'S ATTENTION.
5. THE CONTRACTOR SHALL MAINTAIN EGRESS PATHS FROM THE CONSTRUCTION SITE AT ALL TIMES. PROVIDE TEMPORARY DOORS AND PARTITIONS AS REQUIRED WHERE DOORS TO GENERAL CORRIDORS ARE NOTED TO BE REPLACED.
6. CONTRACTOR TO PROVIDE SIGNAGE, DUST PROTECTION, AND FLOOR PROTECTION AS REQUIRED FROM THE PROJECT AREA THROUGH PUBLIC CORRIDORS AND ELEVATOR LOBBIES TO PROTECT EXISTING FINISHES TO REMAIN.
7. A HAZARDOUS MATERIALS ASSESSMENT OF THE EXISTING BUILDING IN RELATIONSHIP TO THE CONTRACT LIMITS HAS BEEN COMPLETED. REFER TO THE PRE-ALTERATION AND ASSESSMENT REPORT WITHIN THE CONTRACT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. MAINTAIN ALL LIFE-SAFETY RELATED SYSTEMS IN FULLY OPERATIONAL STATE THROUGHOUT ALL DEMOLITION AND CONSTRUCTION WORK, INCLUDING BUT NOT LIMITED TO FIRE ALARM SYSTEM INCLUDING PANELS, SIGNAL/NOTIFICATION DEVICES, FIRE SUPPRESSION SYSTEM, AND EMERGENCY LIGHTING.
9. WORK OUTSIDE THE CONTRACT LIMITS MAY BE REQUIRED FOR TIE-INS AND CONNECTIONS. CONTRACTOR TO WORK OUTSIDE OF THE CONTRACT LIMITS AS REQUIRED TO COMPLETE THE ENTIRE SCOPE OF WORK FOR THE PROJECT.
10. COORDINATE WORK WITH ALL OTHER TRADES.
11. HISTORIC PLASTER CEILING IS PRESUMED TO BE PRESENT IN AREAS OF WORK UNO. TYP PLASTER CEILING IS 19'-0" A.F.F. (1ST FLOOR) AND 16'- 4" (2ND FLOOR). REUSE EXISTING OPENINGS IN PLASTER CEILING WHEN POSSIBLE.



KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

CONSULTANT IDENTIFICATION

STAMP OR SEAL

GSA

General Services Administration
Public Buildings Service
Great Lakes

Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	HAZARDOUS MATERIAL
PLAN TYPE	DEMO CEILING PLAN
SHEET NUMBER AND FILENAME	HAZ107

SHEET

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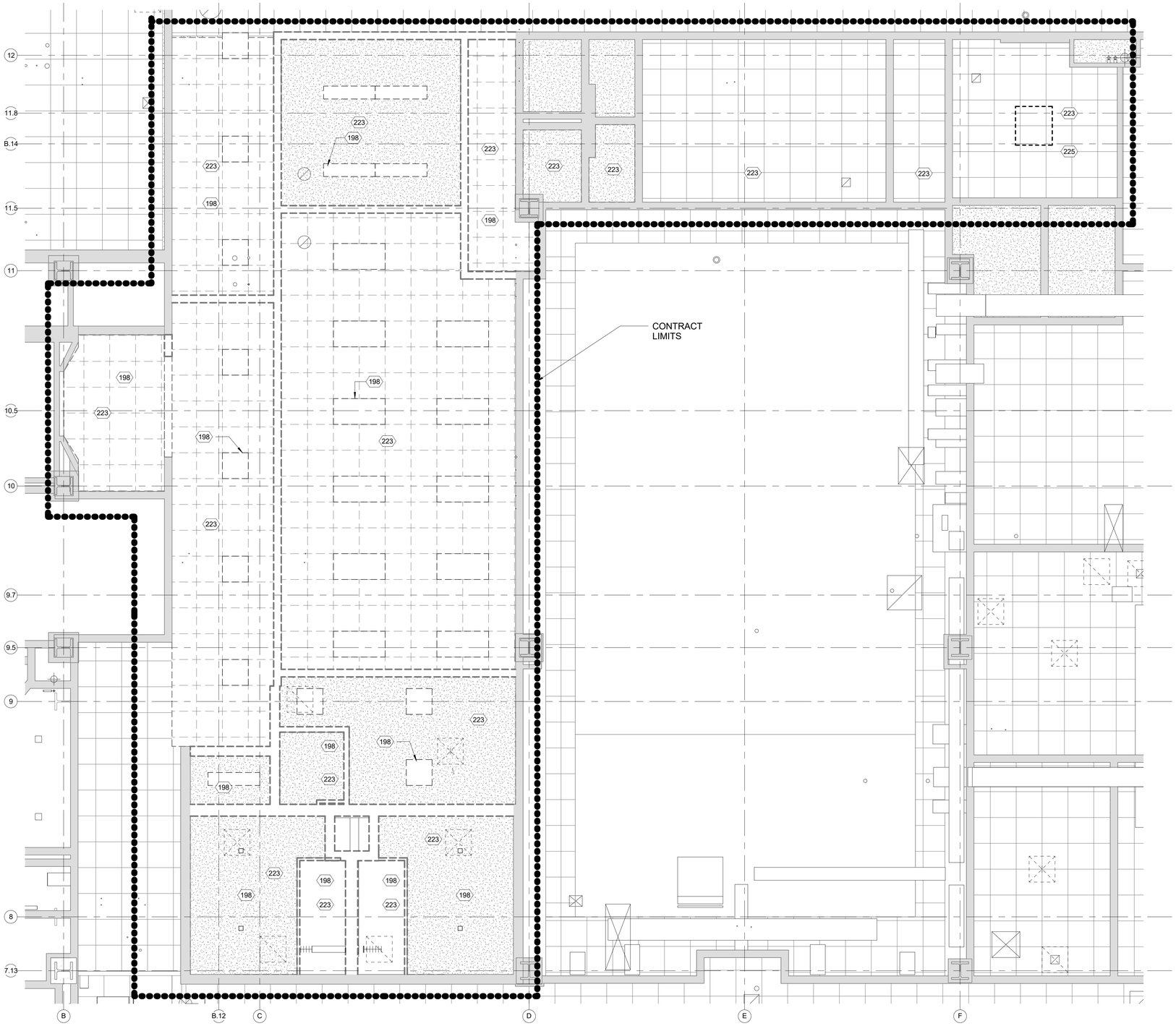

N

1 HAZ108 SECOND FLOOR - OPTION 1 HAZARDOUS MATERIALS - DEMO
1/4" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
2. CONTRACTOR SHALL PROTECT ALL EXISTING CONSTRUCTION AND FINISHES TO REMAIN THROUGHOUT THE PREMISES AND IN ADJACENT AREAS.
3. EXISTING FINISHES ON COLUMNS AND CORE WALLS ARE TO REMAIN U.N.O.
4. DO NOT SCALE DRAWINGS OR MODEL TO OBTAIN REQUIRED DIMENSIONAL INFORMATION. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. ALL EXISTING CONDITIONS ARE TO BE FIELD VERIFIED BY THE G.C. AND ANY DISCREPANCIES BROUGHT TO THE ARCHITECT'S ATTENTION.
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10. COORDINATE WORK WITH ALL OTHER TRADES.
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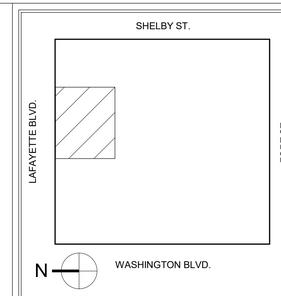
KEYED NOTES

NUMBER	DESCRIPTION
198	PROPERLY REMOVE AND DISPOSE OF FLUORESCENT LAMPS AND BALLASTS - TYPICAL ALL FIXTURES. REFER TO SPECIFICATION 02 08 70.
223	EXISTING PLASTER CEILINGS PAINTED WITH LEAD BASED PAINT. REMOVE LEAD BASED PAINT OR PLASTER CEILING ENTIRELY AS REQUIRED FOR NEW WORK. REFER TO SPECIFICATION SECTION 02 83 00 AND PRE-ALTERATION REPORT IN SPECIFICATION APPENDIX A.
225	EXISTING CONCRETE DECK AND PLASTER CEILING PAINTED WITH LEAD BASED PAINT. CONTRACTOR TO AVOID DISTURBANCE OF PLASTER CEILING PAINT FOR NEW DUCTWORK. REMOVE LEAD BASED PAINT OR PLASTER CEILING ENTIRELY AS REQUIRED FOR NEW WORK. REFER TO SPECIFICATION SECTION 02 83 00 AND PRE-ALTERATION REPORT IN SPECIFICATION APPENDIX A.



KEY PLAN

GRAPHIC SCALE

1/4"=1'-0" 0 4' 8'

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

STAMP OR SEAL

STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047664
LICENSED ARCHITECT

OWNER IDENTIFICATION

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
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Chicago, IL 60604

BUILDING

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ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	SECOND FLOOR
DISCIPLINE	HAZARDOUS MATERIAL
PLAN TYPE	DEMO CEILING PLAN
SHEET NUMBER AND FILENAME	HAZ108

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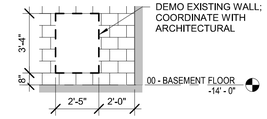
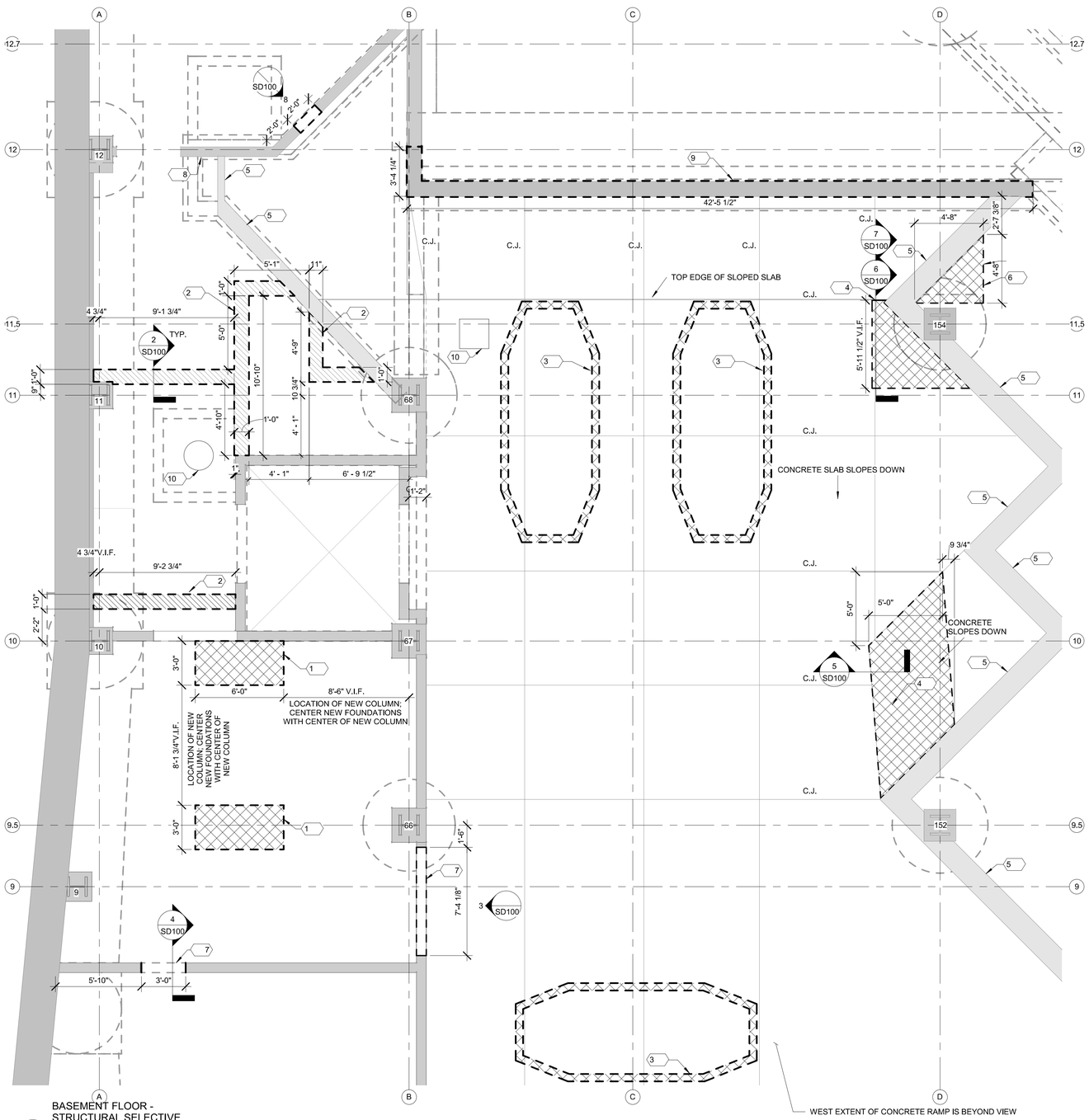


8 SD100 NEW OPENING DEMO
1/4" = 1'-0"



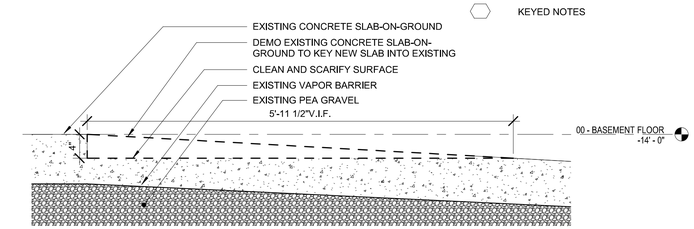
1 SD100 BASEMENT FLOOR - STRUCTURAL SELECTIVE DEMOLITION PLAN
1/4" = 1'-0"

KEYED NOTES:

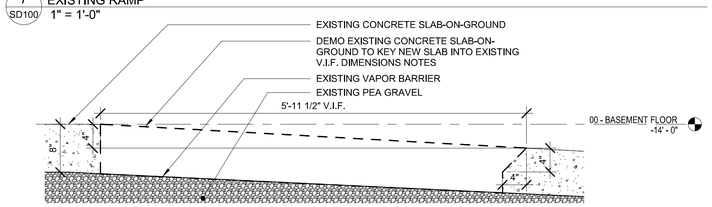
1. DEMO AREA FOR NEW FOUNDATION FOR NEW COLUMN
2. ORIGINAL LOADING DOCK PLATFORM WITH NEWER INFILL SLAB. REMOVE 12" STRIPS OF 3-1/2" INFILL SLAB FOR REPLACEMENT WITH NEW CONCRETE BEARING DIRECTLY ON ORIGINAL CONCRETE SLAB-ON-GROUND. REDUCE WIDTH AT COLUMN 11 TO ACCOMMODATE CONCRETE COLUMN ENCASEMENT.
3. REMOVE TOP 2" OF CONCRETE SLAB FOR INSTALLATION OF SECURITY SYSTEM. COORDINATE WITH ARCHITECTURAL AND SECURITY
4. SELECTIVE DEMO OF EXISTING CONCRETE SLAB TO ACCEPT NEW CONCRETE SLAB INFILL; SEE CORRESPONDING DETAILS.
5. CHECKERED STEEL PLATE AT EDGE OF ORIGINAL LOADING DOCK PLATFORM NOT TO BE REMOVED OR MODIFIED
6. REMOVE WOOD BLOCK FLOORING SYSTEM. CLEAN AND SCARIFY EXISTING SLAB TOP SURFACE FOR NEW CONCRETE SLAB-ON-GROUND
7. DEMO EXISTING WALL FULL HEIGHT; SEE DETAIL 4/SD100
8. NEW OPENING IN WALL FOR MEP; COORDINATE LOCATION AND SIZE WITH ARCHITECTURAL AND MEP
9. DEMO EXISTING STUD & GYPSUM WALL ABOVE CONCRETE RETAINING WALL
10. MANHOLE TO REMAIN

LEGEND:

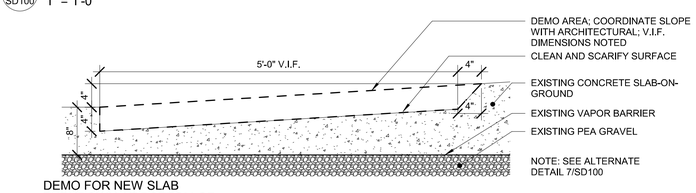
- EXISTING WALL
- EXISTING WALL/STRUCTURE BELOW EXISTING BASEMENT SLAB TO REMAIN
- EXISTING WALL TO BE DEMOLISHED; SEE KEYED NOTES FOR SPECIFICS
- EXTENT OF EXISTING SLAB TO BE DEMOLISHED; SEE PLAN AND DETAILS AND COORDINATE WITH ARCHITECTURAL AND SECURITY
- EXTENT OF EXISTING WOOD BLOCKING FLOORING TO BE DEMOLISHED
- EXTENT OF EXISTING TOPPING SLAB TO BE DEMOLISHED; SEE 2/SD100
- EXISTING SLAB ON GROUND CONTROL JOINTS
- XX COLUMN NUMBER
- KEYED NOTES



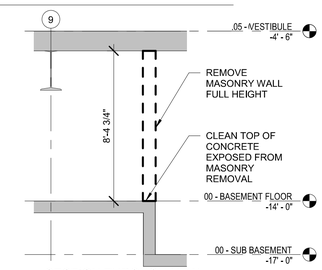
7 SD100 ALTERNATE - DEMO FOR NEW SLAB TURNDOWN AT TOP OF EXISTING RAMP
1" = 1'-0"



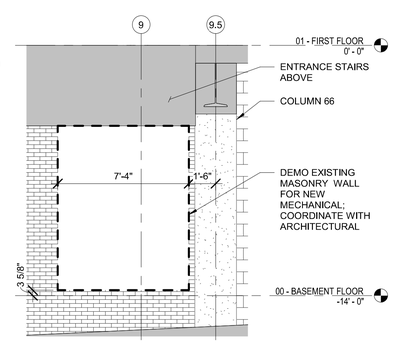
6 SD100 DEMO FOR NEW SLAB TURNDOWN AT TOP OF EXISTING RAMP
1" = 1'-0"



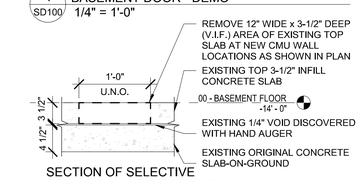
5 SD100 DEMO FOR NEW SLAB TURNDOWN AT BOTTOM OF NEW RAMP
1" = 1'-0"



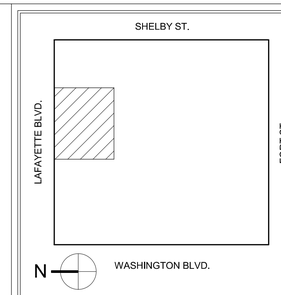
4 SD100 SECTION THROUGH NEW BASEMENT DOOR - DEMO
1/4" = 1'-0"



3 SD100 VEHICLE SALLYPORT ELEVATION SOUTH - DEMO
1/4" = 1'-0"



2 SD100 SECTION OF SELECTIVE DEMOLITION OF EXISTING TOP SLAB AT NEW CMU WALL LOCATIONS
1" = 1'-0"



KEY PLAN

1/4"=1'-0" 0 4' 8'
*UNLESS NOTED OTHERWISE

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	WJE NO. 2021.1905
DELIVER ORDER NO.	
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

WJE ENGINEERS ARCHITECTS MATERIALS SCIENTISTS
Wiss, Janney, Elstner Associates, Inc.
30700 Telegraph Road, Suite 3580
Bingham Farms, Michigan 48025
248.593.0900 tel | 248.593.8532 fax
www.wje.com

CONSULTANT IDENTIFICATION

STATE OF MICHIGAN
CHERYL L. EARLY
ENGINEER No. 046795
LICENSED PROFESSIONAL ENGINEER
Cheryl L. Early, P.E.
2023.02.14 12:46:19-05'00'

STAMP OR SEAL

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

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ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	LD / JR
CHECKED BY	CE / JH
FLOOR NO.	
DISCIPLINE	STRUCTURAL
PLAN TYPE	
SHEET NUMBER AND FILENAME	SD100

SHEET

PROPERTY OF THE UNITED STATES GOVERNMENT. This is controlled unclassified information. Do not remove the CUI marking. Properly destroy or return documents when no longer needed.

GENERAL NOTES:

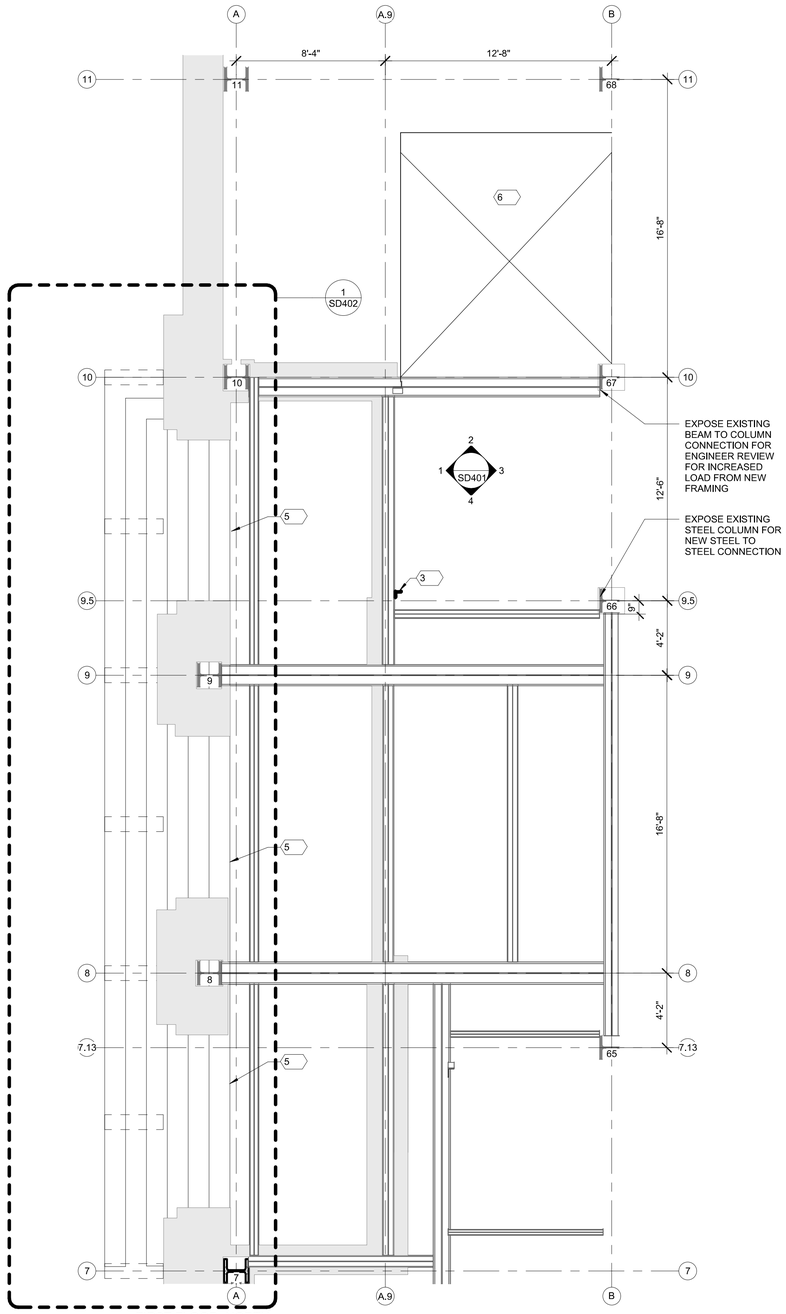
1. VESTIBULE CEILINGS AND HVAC UNITS ABOVE TO REMAIN

LEGEND:

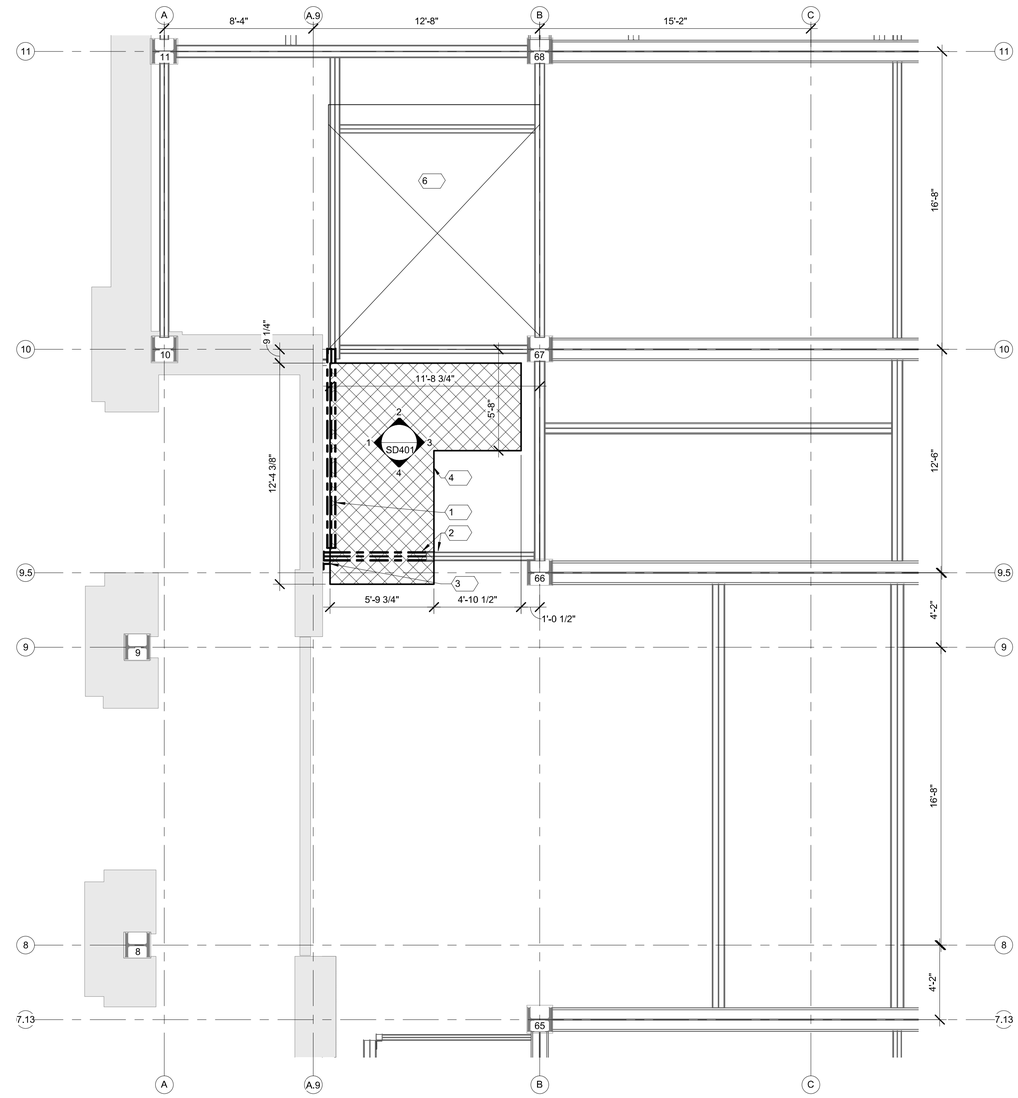
- EXISTING EXTERIOR WALL
- EXISTING BEAM TO REMAIN
- EXISTING BEAM TO BE REMOVED
- EXISTING SLAB TO BE DEMOLISHED
- XX COLUMN NUMBER
- KEYED NOTES

KEYED NOTES:

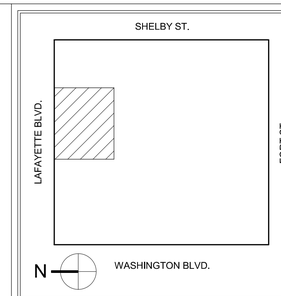
1. ENCASED STRUCTURAL STEEL BEAM TO BE REMOVED; VERIFY IF BEAM IS SUPPORTING MASONRY WALL AND STAIR FRAMING ABOVE AND COORDINATE WITH A/E. PROVIDE TEMPORARY SHORING FOR BEAM REMOVAL EFFORT AS REQUIRED
2. REMOVE ENCASED STEEL BEAM FOR PARTIAL LENGTH AS SHOWN; PROTECT EXISTING CONCRETE FIREPROOFING AROUND STEEL FRAMING TO REMAIN
3. REMOVE STEEL ANGLE VERTICAL SUPPORT MEMBER, COORDINATE WITH A/E; ANGLE MAY BE ENCASED IN BRICK MASONRY AND MAY BE ABLE TO REMAIN DEPENDING UPON FIELD CONDITIONS
4. REMOVE EXISTING FLOOR TEE-JOIST/SLAB SYSTEM IN SHADED AREA; PROVIDE TEMPORARY SHORING AND BRACING FOR WALLS ABOVE FLOOR TO BE REMOVED; DO NOT COMPROMISE CONCRETE FIREPROOFING AROUND STEEL BEAMS TO REMAIN
5. SEE SD402 REGARDING EXISTING EXTERIOR STAIRS AND GRANITE STONE STEPS, COORDINATE WITH ARCHITECTURAL
6. EXISTING ELEVATOR SHAFT



N 1 SD101 FIRST FLOOR -NORTH LAFAYETTE ENTRY FLOOR STRUCTURE - SELECTIVE DEMOLITION PLAN TOP OF STEEL ELEVATION (-5'-6")
1/4" = 1'-0"



N 2 SD101 FIRST FLOOR -NORTH LAFAYETTE FIRST FLOOR STRUCTURE - SELECTIVE DEMOLITION PLAN FINISH FLOOR ELEVATION(0'-0")
1/4" = 1'-0"



KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

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A/E CONTRACT NO.	WJE NO. 2021.1905
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PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	LD / JR
CHECKED BY	CE / JH
FLOOR NO.	
DISCIPLINE	STRUCTURAL
PLAN TYPE	
SHEET NUMBER AND FILENAME	SD101

SHEET

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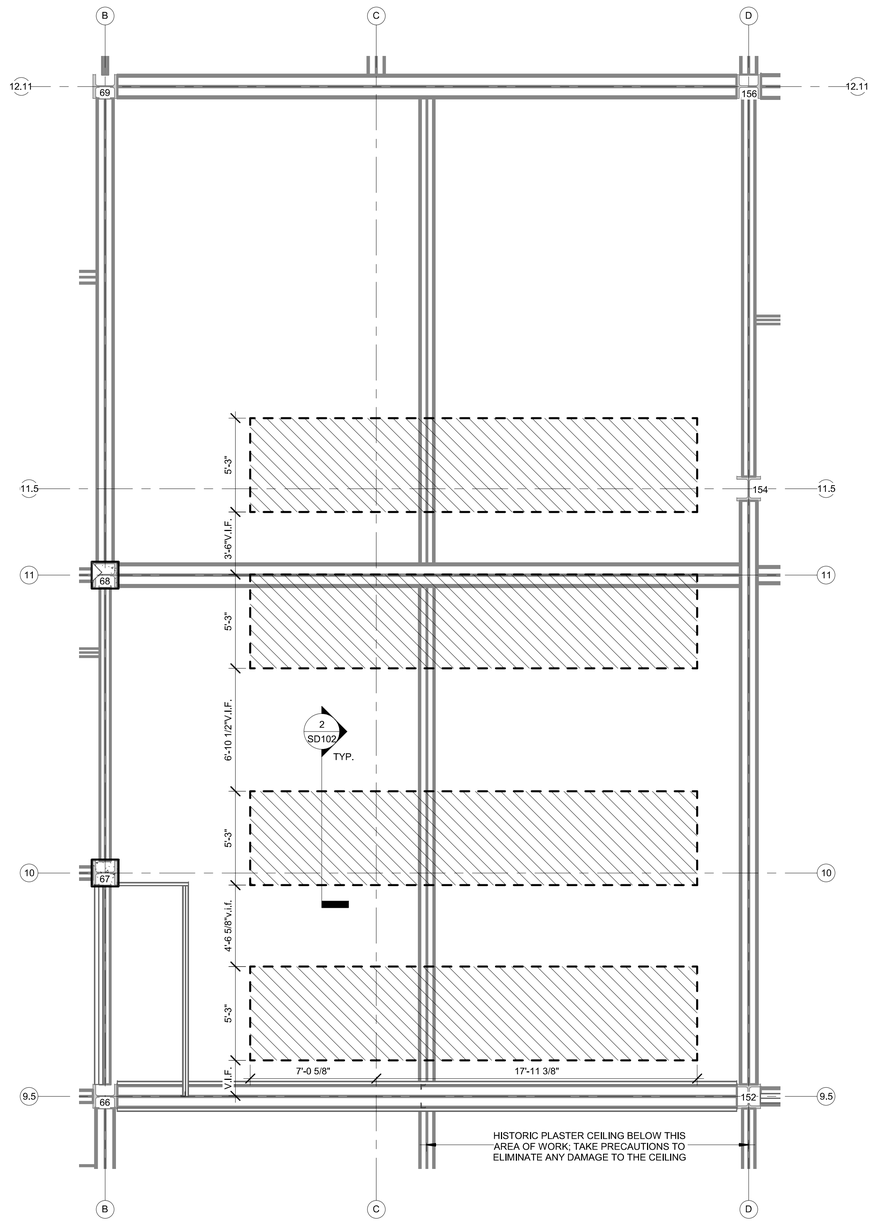


1 SD102 SECOND FLOOR STRUCTURE - SELECTIVE DEMOLITION PLAN
1/4" = 1'-0"

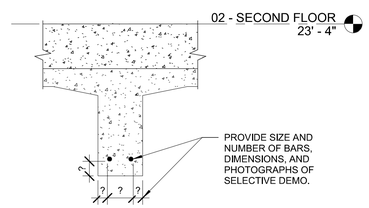
LEGEND:

EXTENT OF EXISTING TOPPING SLAB TO BE DEMOLISHED

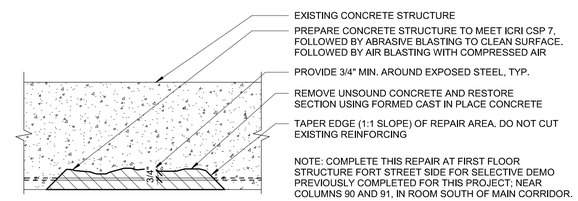
XX COLUMN NUMBER

GENERAL NOTES:

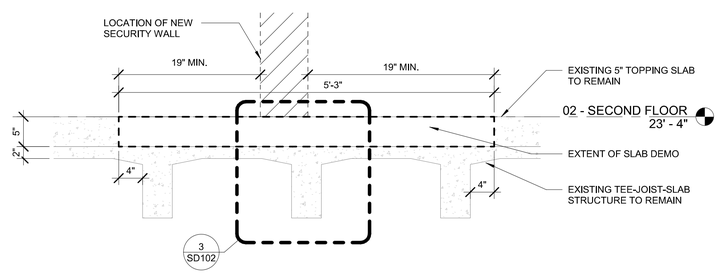
AT LOCATION WHERE UNDERSIDE OF SECOND FLOOR IS EXPOSED IN THIS AREA OF WORK, CHIP AWAY AT BOTTOM OF A JOIST TO VERIFY SIZE, NUMBER, CONCRETE COVER AND SPACING OF BOTTOM REINFORCING BARS. PROVIDE PHOTOGRAPHS OF SELECTIVE DEMO. CONTACT A/E WITH INFORMATION PRIOR TO INSTALLING NEW WORK. COMPLETE CONCRETE REPAIR BEFORE ENCLOSING THE AREA.



3 SD102 GENERAL INFO TO BE PROVIDED TO A/E FROM SELECTIVE DEMO
1 1/2" = 1'-0"

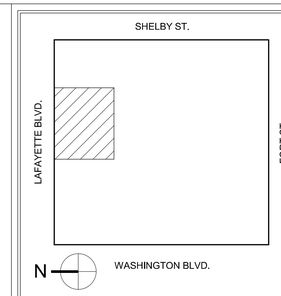


4 SD102 TYPICAL CONCRETE REPAIR DETAIL
1 1/2" = 1'-0"



SECTION OF SELECTIVE DEMOLITION OF EXISTING TOPPING SLAB AT SECOND FLOOR LEVEL
2 SD102 1" = 1'-0"

KEY PLAN



GRAPHIC SCALE

1/4"=1'-0" 0 4' 8'

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REVISION BLOCK

MARK	DATE	DESCRIPTION

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CHERYL L. EARLY
ENGINEER
No. 046795
LICENSED PROFESSIONAL ENGINEER
Cheryl L. Early, P.E.
2023.02.14 12:46:19-05'00'

OWNER IDENTIFICATION

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	LD
CHECKED BY	CE / JH
FLOOR NO.	
DISCIPLINE	STRUCTURAL
PLAN TYPE	
SHEET NUMBER AND FILENAME	SD102

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LEGEND:

- EXISTING BEAM TO REMAIN
- EXISTING BEAM TO BE REMOVED
- EXISTING BEAM TO BE REMOVED
- EXISTING STEEL ANGLE TO BE REMOVED
- EXISTING SLAB TO BE REMOVED
- KEYED NOTES

KEYED NOTES:

1. REMOVE ENCASED STRUCTURAL STEEL BEAM TO BE REMOVED; VERIFY IF BEAM IS SUPPORTING MASONRY WALL AND STAIR FRAMING ABOVE AND COORDINATE WITH A/E. PROVIDE TEMPORARY SHORING FOR BEAM REMOVAL EFFORT AS REQUIRED

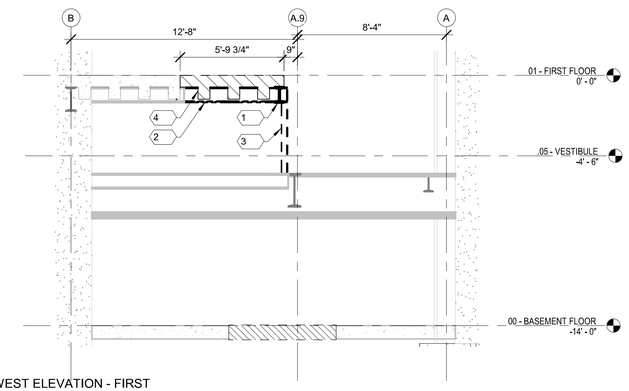
2. REMOVE ENCASED STEEL BEAM FOR PARTIAL LENGTH AS SHOWN; PROTECT EXISTING CONCRETE FIREPROOFING AROUND STEEL FRAMING TO REMAIN

3. REMOVE STEEL ANGLE VERTICAL SUPPORT MEMBER, COORDINATE WITH A/E; ANGLE MAY BE ENCASED IN BRICK MASONRY AND MAY BE ABLE TO REMAIN DEPENDING UPON FIELD CONDITIONS

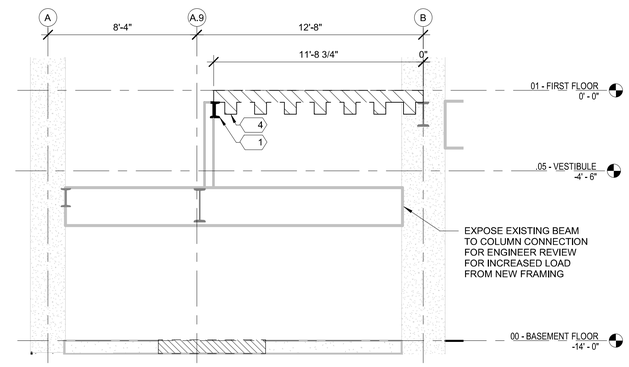
4. REMOVE EXISTING FLOOR TEE-JOIST/SLAB SYSTEM IN SHADED AREA; PROVIDE TEMPORARY SHORING AND BRACING FOR WALLS ABOVE FLOOR TO BE REMOVED; DO NOT COMPROMISE CONCRETE FIREPROOFING AROUND STEEL BEAMS TO REMAIN

GENERAL NOTES:

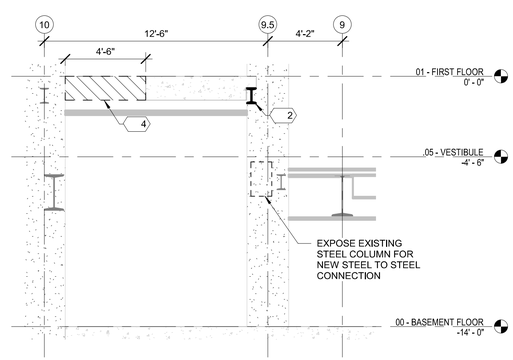
1. ENCASEMENT AROUND BEAMS NOT SHOWN FOR CLARITY



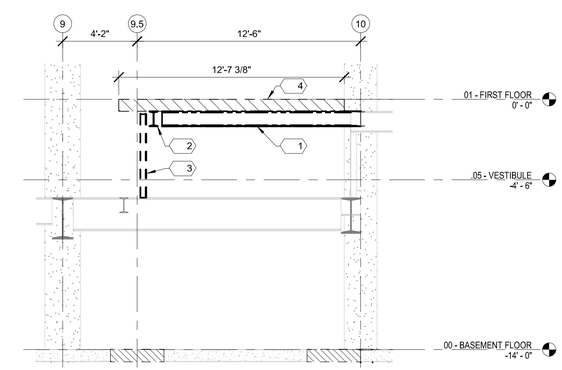
4 SD401 WEST ELEVATION - FIRST FLOOR DEMO
1/4" = 1'-0"



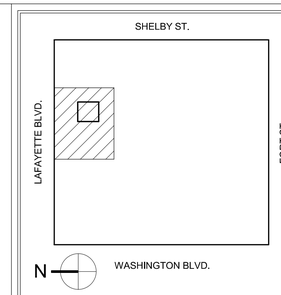
2 SD401 EAST ELEVATION - FIRST FLOOR DEMO
1/4" = 1'-0"



3 SD401 SOUTH ELEVATION - FIRST FLOOR DEMO
1/4" = 1'-0"



1 SD401 NORTH ELEVATION - FIRST FLOOR DEMO
1/4" = 1'-0"



KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	WJE NO. 2021.1905
DELIVER ORDER NO.	
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

WJE ENGINEERS ARCHITECTS MATERIALS SCIENTISTS
Wiss, Janney, Elstner Associates, Inc.
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PROJECT

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FLOOR NO.	
DISCIPLINE	STRUCTURAL
PLAN TYPE	
SHEET NUMBER AND FILENAME	SD401

SHEET

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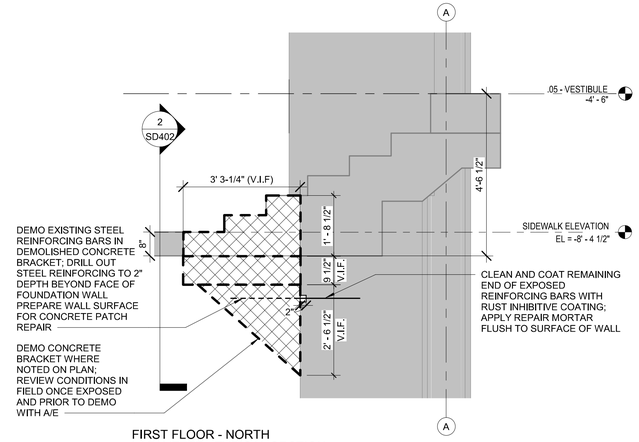
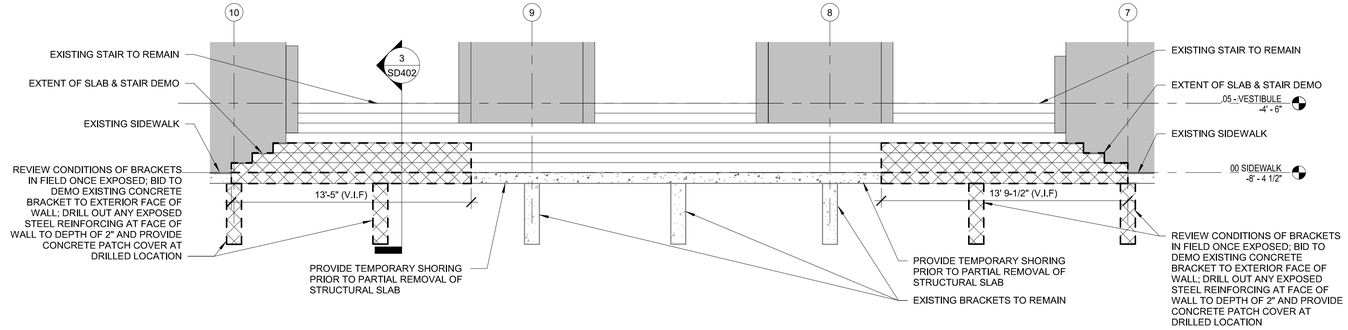
LEGEND:

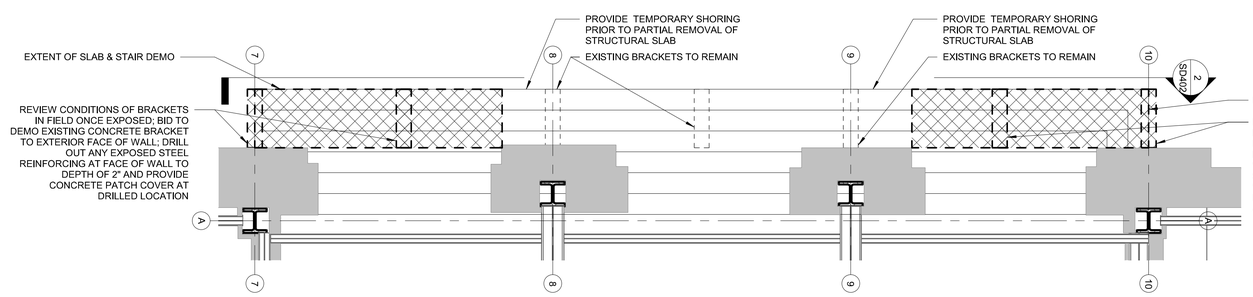
EXTENT OF EXISTING SLAB TO BE DEMOLISHED



3 SD402 FIRST FLOOR - NORTH LAFAYETTE - TYPICAL SECTION THROUGH EXISTING STAIR - SELECTIVE DEMO
1/2" = 1'-0"



2 SD402 FIRST FLOOR - NORTH LAFAYETTE - EXISTING STAIR - SELECTIVE DEMO ELEVATION
1/4" = 1'-0"



1 SD402 1/4" = 1'-0" FIRST FLOOR -NORTH LAFAYETTE FIRST FLOOR STRUCTURE - SELECTIVE DEMOLITION PLAN

SHELBY ST.

LAFAYETTE BLVD.

FORT ST.

WASHINGTON BLVD.

N

KEY PLAN

1/4"=1'-0" 0 4' 8'

*UNLESS NOTED OTHERWISE

GRAPHIC SCALE

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PLAN TYPE	
SHEET NUMBER AND FILENAME	SD402

SHEET

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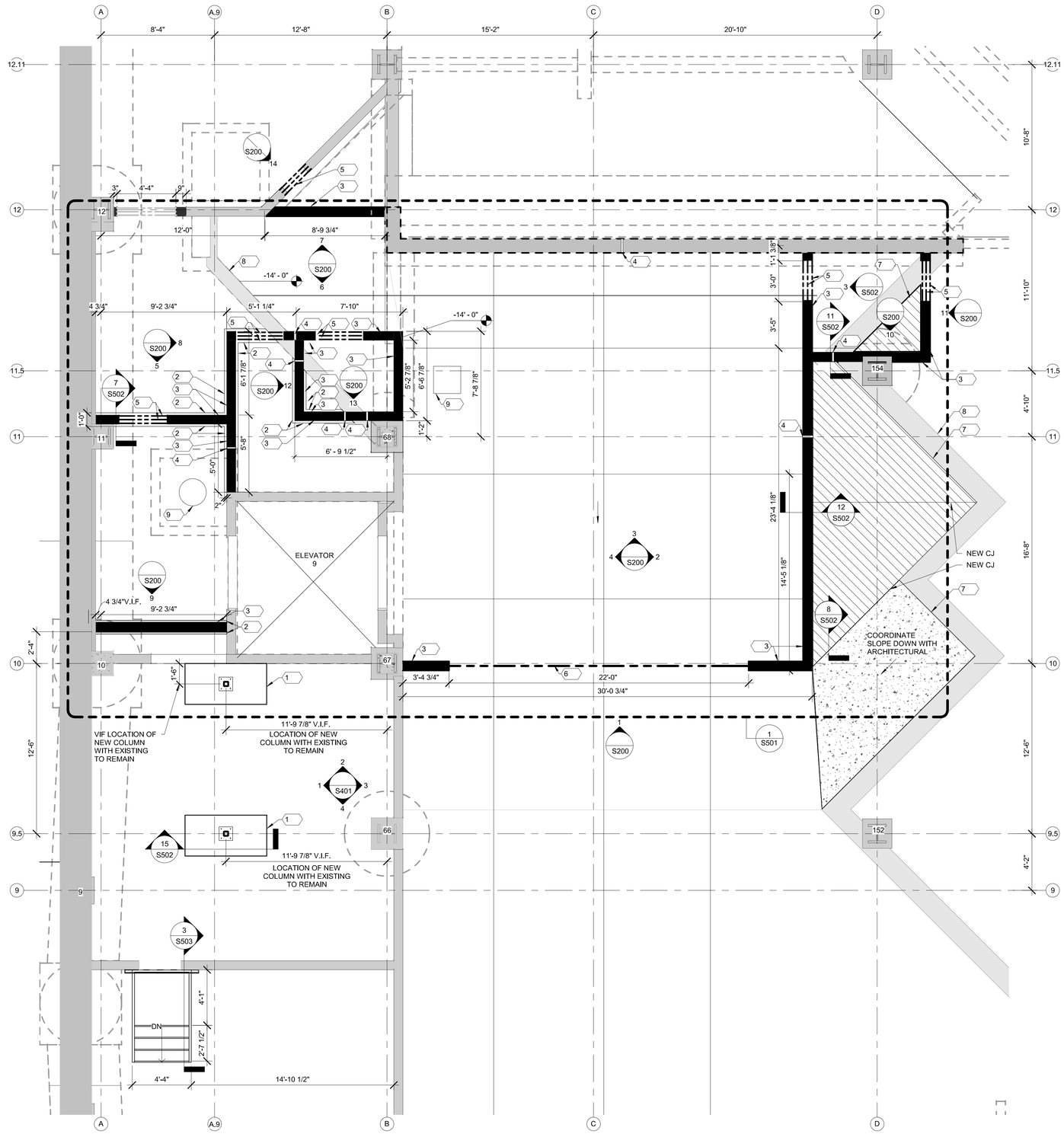


N

1 S100 BASEMENT FLOOR - STRUCTURAL NEW WORK PLAN
1/4" = 1'-0"

KEYED NOTES:

1. NEW 4x4x1/4 HSS COLUMN WITH 1/2"x12"x12" BASE PLATE AND (4) 3/4" DIAMETER x 8" EMBEDMENT ANCHOR BOLTS ON 1/2" +/- NON-SHRINK, NON-METALLIC GROUT ON 12"x36"x12" FOUNDATION WITH (8) NO.5s SHORT ATOP (3) NO.5s LONG ON BOTTOM (3" CLEAR COVER ALL SIDES).

2. INFILL WITH NEW 12"x3.5" CONCRETE SLAB ATOP ORIGINAL SLAB-ON-GROUND AT AREAS OF TOPPING SLAB REMOVED. PROVIDE (2) NO.4 HORIZONTAL BARS CONTINUOUS WITH 3/4" CLEAR COVER ON BOTTOM.

3. NEW GROUTED NOMINAL 8" CMU WITH (1) NO.4 VERTICAL BARS AT 24" O.C. AND (2) NO. 4 HORIZONTAL BARS AT 24" O.C. TO BE ANCHORED INTO SLAB-ON-GROUND AND UNDERSIDE OF FIRST FLOOR SLAB; WALL GROUTED SOLID FULL HEIGHT.

4. VERTICAL CONTROL JOINT IN NEW CMU.

5. NEW (2) 3-1/2x3-1/2x1/4 STEEL ANGLE OR MASONRY BOND WITH (2) NO.4 BARS CONTINUOUS ON BOTTOM LINTEL FOR MINIMUM DOOR OPENING; SEE DETAILS 1, 2, & 3 ON S501 FOR STEEL ANGLE OPTIONS. SEE WALL ELEVATIONS ON S200 FOR CMU LINTEL OPTIONS.

6. NEW W12x26 STEEL LINTEL WITH 6"x7"x1/2" STEEL BEARING PLATES, SEE DETAILS 4, 5, & 6 ON S501.

7. INFILL AREA WITH NEW SLAB OVER EXISTING SLAB TO MEET -14'-0" FLOOR ELEVATION. PROVIDE WWF AT TOP WITH 3/4" CLEAR COVER.

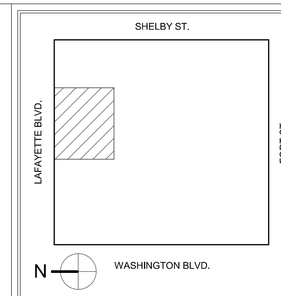
8. EXISTING CHECKERED STEEL PLATE AT EDGE OF ORIGINAL LOADING DOCK PLATFORM NOT TO BE REMOVED OR MODIFIED.

9. MANHOLE TO REMAIN.

LEGEND:

- NEW MASONRY WALL
- EXISTING WALL
- NEW PARTIAL HEIGHT MASONRY WALL
- EXISTING WALL/STRUCTURE BELOW EXISTING BASEMENT SLAB
- NEW FOUNDATION
- NEW CONCRETE INFILL TO LEVEL FLOOR AREA
- NEW CONCRETE RAMP
- NEW STEEL LINTEL
- KEYED NOTES
- XX COLUMN NUMBER
- 8'-4" DIMENSIONS TO FACE OF WALL

KEY PLAN



GRAPHIC SCALE

1/4"=1'-0" 0 4' 8'

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SHEET

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FLOOR NO.	
DISCIPLINE	STRUCTURAL
PLAN TYPE	
SHEET NUMBER AND FILENAME	S100

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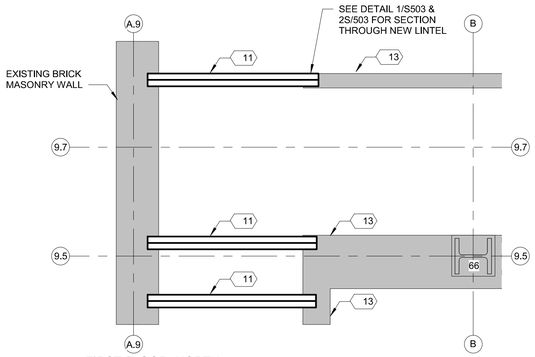
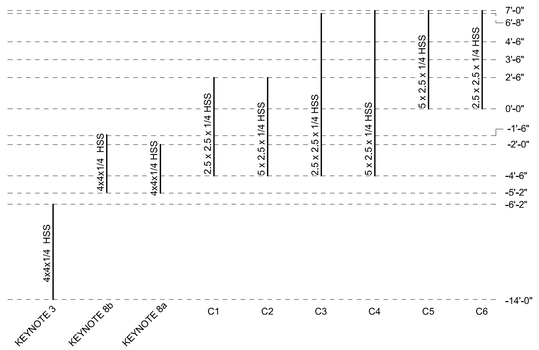


FIRST FLOOR -NORTH
LAFAYETTE FIRST FLOOR
STRUCTURE - NEW WORK PLAN
(8'-0") - NEW LINTELS
3/8" = 1'-0"
3 S101

COLUMN SCHEDULE:



BEAM SCHEDULE:

M1 - NOT USED

M2 - 2.5 x 2.5 x 1/4 HSS

M3 - 5 x 2.5 x 1/4 HSS

M4 - C4x5.4 WITH FLANGES FACING DOWN

BASE PLATE SCHEDULE:

SEE DETAILS ON SHEET S403

BP1 - 1/4" x 5" x 5"

BP2 - 1/4" x 3.5" x 6.5"

BP3 - NOT USED

BP4 - 1/4" x 3.5" x 9"

BP5 - 1/4" x 5" x 7.5"

BP6 - 1/4" x 6" x 9"

WALL PLATE SCHEDULE:

SEE DETAILS ON SHEET S403

WP1 - 1/4" x 4" x 10" WITH (2) 5/16" DIAMETER x 3-1/8" EMBEDMENT EPOXY ANCHOR WITH SCREEN TUBE. PRE-DRILL HOLES WITHOUT CRACKING CLAY TILE. CONTACT A/E IF CLAY TILE IS DAMAGED.

LEGEND:

- EXISTING EXTERIOR WALL
- CLAY MASONRY PARTITION WALL
- EXISTING BEAM
- NEW BEAM
- FOOTPRINT OF NEW LIFT AREA
- NEW SLAB
- NEW MOMENT FRAME
- XX COLUMN NUMBER
- KEYED NOTES

GENERAL NOTES:

1. HSS FRAMES FOR PARTIAL HEIGHT GLASS PARTITION WALLS TO BE MOMENT FRAME; SHOP FABRICATE AS MUCH AS REASONABLY POSSIBLE. ALL MEMBER TO MEMBER CONNECTIONS TO BE COMPLETE JOINT PENETRATION (CJP) WELDS.

2. COORDINATE ALL DIMENSIONS OF GLASS FRAMES WITH ARCHITECTURAL

3. ALL COLUMNS FOR GLASS WALL FRAMES TO HAVE WELDED CAP PLATE OF SAME THICKNESS AS HSS COLUMN

KEYED NOTES:

1. NEW 3" CONCRETE SLAB ON 2" COMPOSITE METAL 18g DECK (5" TOTAL)WITH 4x4 W1.4xW1.4 WWF AT TOP WITH 3/4" CLEAR COVER PROVIDE 3" CONCRETE TOPPING WITH 4x4 W1.4xW1.4 WWF AT TOP WITH 3/4" CLEAR COVER TO MATCH EXISTING FLOOR ELEVATION AT -4'-6" TOP OF SLAB PROVIDE POUR STOPS AT PERIMETER OF SLAB.

2. NEW 3" CONCRETE SLAB ON 2" COMPOSITE METAL 18g DECK (5" TOTAL)WITH 4x4 W1.4xW1.4 WWF AT TOP WITH 3/4" CLEAR COVER. PROVIDE POUR STOPS AT PERIMETER OF SLAB.

3. NEW 4x4x1/4 HSS COLUMN SPANNING FROM NEW FOOTING IN BASEMENT UP TO -6'-2"

4. NEW PARTIAL HEIGHT GLASS WALL SUPPORTED BY MOMENT FRAME AT FIRST FLOOR LEVEL; COORDINATE WITH ARCHITECTURAL.

5. ALIGN NEW BRACE WITH EXISTING C6x8.2 OF VESTIBULE CEILING (SUPPORTING EXISTING 1/4" CHECKERED PLATE). VERIFY IN FIELD THE DIMENSIONS OF BRACING AND COORDINATE WITH A/E PRIOR TO FABRICATION.

6. EXISTING ELEVATOR SHAFT.

7. NEW ADA LIFT.

8a. NEW 4x4x1/4 HSS SPANNING FROM -5'-2" TOP OF STEEL TO -2'-0" V.I.F. (2 LOCATIONS.)

8b. NEW 4x4x1/4 HSS SPANNING FROM -5'-2" TOP OF STEEL TO -1'-6" V.I.F., UNDERSIDE OF EXISTING BEAM (1 LOCATION).

9. NEW W8x15 TOP OF STEEL -1'-4" V.I.F. AS RELATES TO EXISTING SLAB DEPTH THIS LOCATION.

10. NEW W12x35 TOP OF STEEL -5'-2"

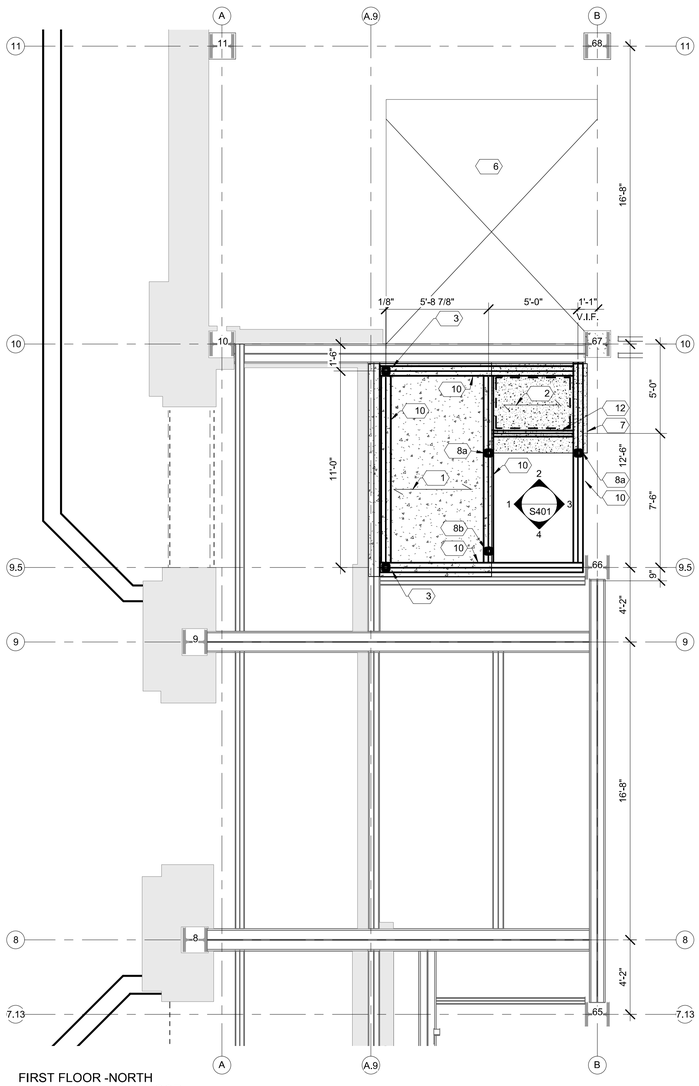
11. NEW (2) 6"x3.5"x3/8" ANGLES; SEE DETAIL 14/S502 (SIMILAR.) COORDINATE LOCATION WITH ARCHITECTURAL. PROVIDE PAPER DAM AND GROUT SOLID (2) COURSES BELOW 8" ANGLE BEARING.

12. NEW W8x15 TOP OF STEEL -5'-2"

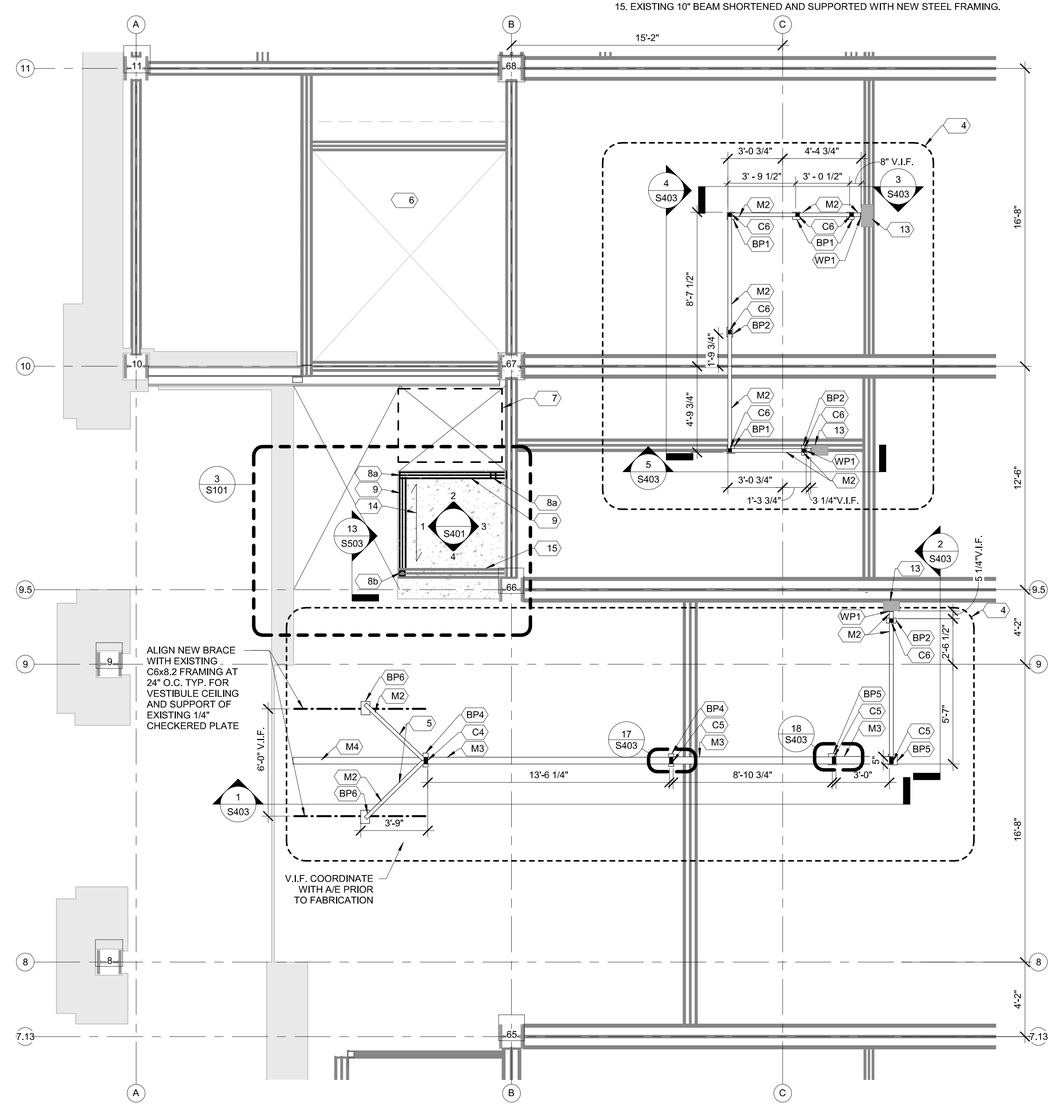
13. EXISTING CLAY MASONRY PARTITION WALL, SEE ARCHITECTURAL.

14. EXISTING TEE-JOIST/SLAB FLOOR SYSTEM, SHORTENED SPAN SUPPORTED WITH NEW STEEL FRAMING.

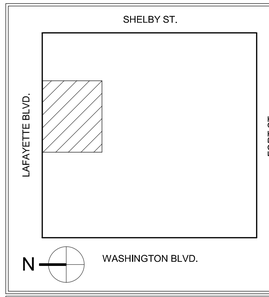
15. EXISTING 10" BEAM SHORTENED AND SUPPORTED WITH NEW STEEL FRAMING.



FIRST FLOOR -NORTH
LAFAYETTE ENTRY FLOOR
STRUCTURE - NEW WORK PLAN
TOP OF STEEL ELEVATION
(-5'-6")
1/4" = 1'-0"
1 S101



FIRST FLOOR -NORTH
LAFAYETTE FIRST FLOOR
STRUCTURE - NEW WORK PLAN
(0'-0")
1/4" = 1'-0"
2 S101



KEY PLAN

GRAPHIC SCALE

1/4"=1'-0" 0 4' 8'

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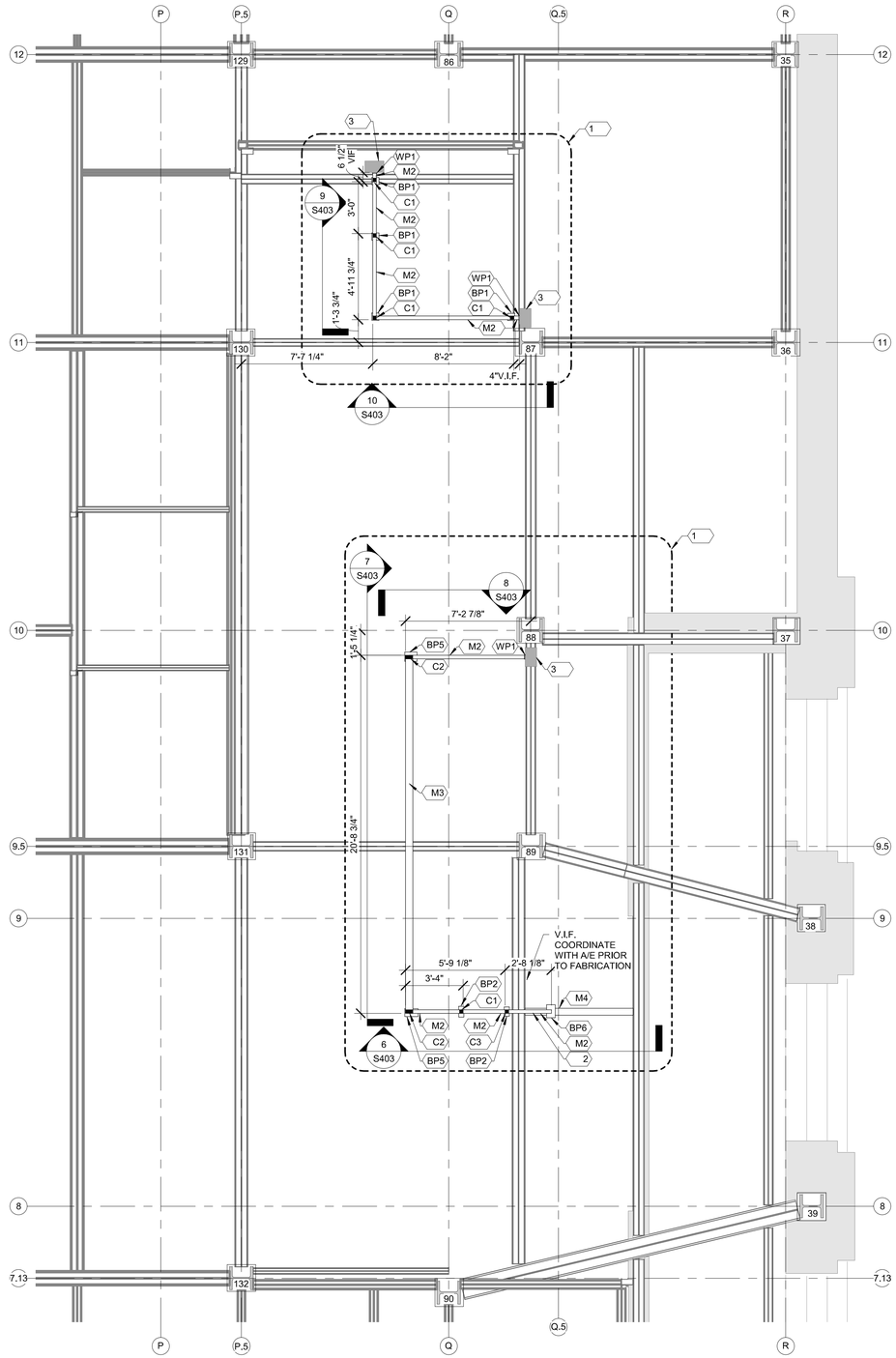

N

1 S101b

FIRST FLOOR - SOUTH FORT STREET FIRST FLOOR STRUCTURE - NEW WORK PLAN
1/4" = 1'-0"

LEGEND:

- EXISTING EXTERIOR WALL
- CLAY MASONRY PARTITION WALL
- EXISTING BEAM
- NEW BEAM
- FOOTPRINT OF NEW LIFT AREA
- NEW SLAB
- NEW MOMENT FRAME
- XX COLUMN NUMBER
- KEYED NOTES

WALL PLATE SCHEDULE:

SEE DETAILS SHEET S403

WP1 - 1/4" x 4" x 10" WITH (2) 5/16" DIAMETER x 3-1/8" EMBEDMENT EPOXY ANCHOR WITH SCREEN TUBE. PRE-DRILL HOLES WITHOUT CRACKING EXISTING CLAY TILE. CONTACT A/E IF CLAY TILE IS DAMAGED

BASE PLATE SCHEDULE:

SEE DETAILS SHEET S403

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BP2 - 1/4" x 3.5" x 6.5"

BP3 - NOT USED

BP4 - 1/4" x 3.5" x 9"

BP5 - 1/4" x 5" x 7.5"

BP6 - 1/4" x 6" x 9"

KEYED NOTES:

1. NEW PARTIAL HEIGHT GLASS WALL SUPPORTED BY STEEL MOMENT FRAME AT FIRST FLOOR LEVEL ; COORDINATE WITH ARCHITECTURAL

2. ALIGN NEW BRACE WITH EXISTING C6x8.2 OF VESTIBULE CEILING (SUPPORTING EXISTING 1/4" CHECKERED PLATE). VERIFY IN FIELD THE DIMENSIONS OF BRACING AND COORDINATE WITH A/E PRIOR TO FABRICATION.

3. EXISTING CLAY MASONRY PARTITION WALL, SEE ARCHITECTURAL

GENERAL NOTES:

1. HSS FRAMES FOR PARTIAL HEIGHT GLASS PARTITION WALLS TO BE MOMENT FRAME; SHOP FABRICATE AS MUCH AS REASONABLY POSSIBLE. ALL MEMBER TO MEMBER CONNECTIONS TO BE COMPLETE JOINT PENETRATION (CJP) WELDS.

2. COORDINATE ALL DIMENSIONS OF GLASS FRAMES WITH ARCHITECTURAL

3. ALL COLUMNS FOR GLASS WALL FRAMES TO HAVE WELDED CAP PLATE OF SAME THICKNESS AS HSS COLUMN

BEAM SCHEDULE:

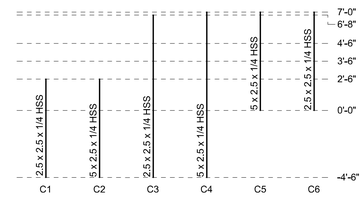
M1 - NOT USED

M2 - 2.5 x 2.5 x 1/4 HSS

M3 - 5 x 2.5 x 1/4 HSS

M4 - C4x5.4 WITH FLANGES FACING DOWN

COLUMN SCHEDULE:



SHELBY ST.
LAFAYETTE BLVD.
FORT ST.
WASHINGTON BLVD.
N
KEY PLAN

1/4"=1'-0" 0 4' 8'
GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	WJE NO. 2021.1905
DELIVER ORDER NO.	
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com
DESIGNER IDENTIFICATION

WJE ENGINEERS ARCHITECTS MATERIALS SCIENTISTS
Wiss, Janney, Elstner Associates, Inc.
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248.593.0900 tel | 248.593.8532 fax
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CONSULTANT IDENTIFICATION

STATE OF MICHIGAN
CHERYL L. EARLY
ENGINEER No. 046795
LICENSED PROFESSIONAL ENGINEER
Cheryl L. Early, P.E.
2023.02.14 12:48:11-05'00'
STAMP OR SEAL

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604
OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	LD / JR
CHECKED BY	CE / JH
FLOOR NO.	
DISCIPLINE	STRUCTURAL
PLAN TYPE	
SHEET NUMBER AND FILENAME	S101b

SHEET

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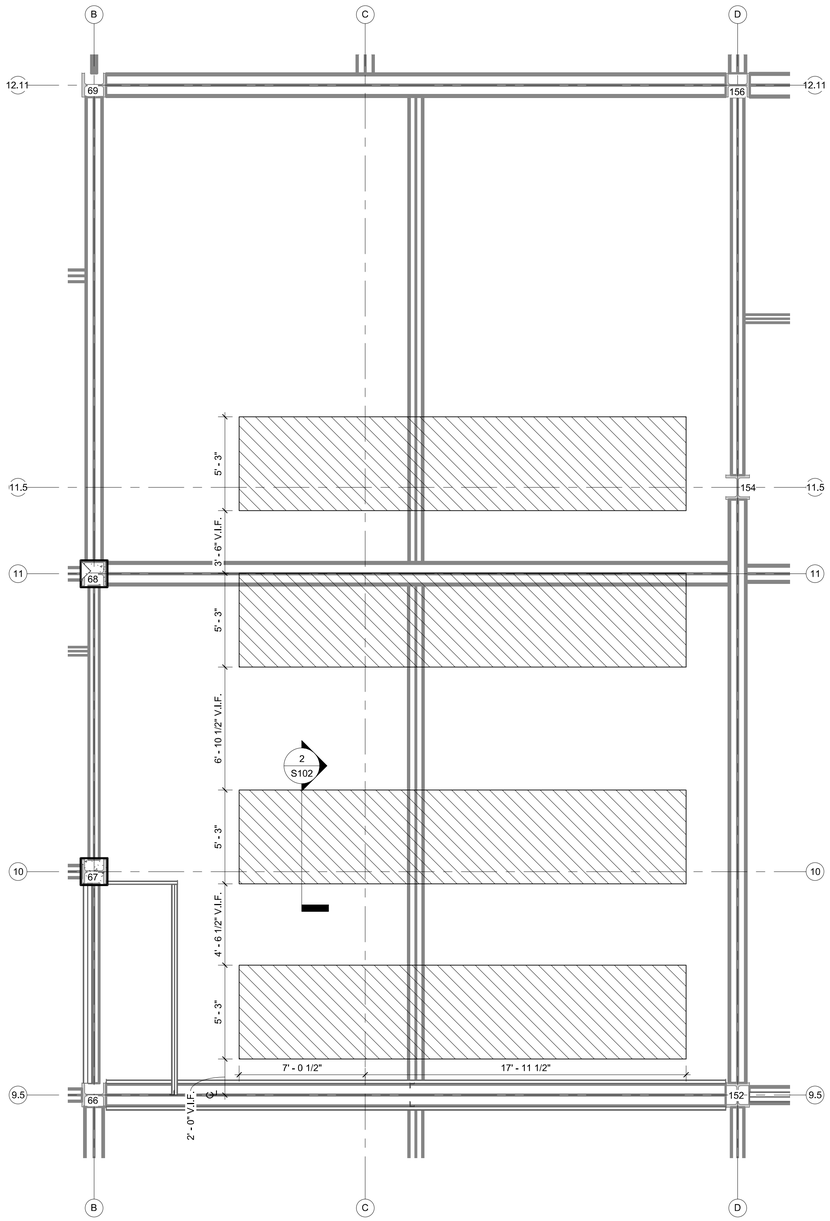
LEGEND:

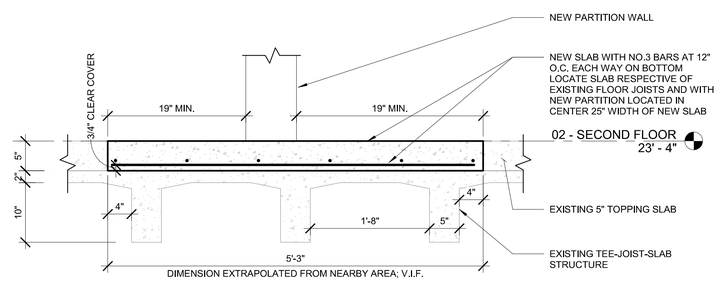
NEW CONCRETE INFILL

XX COLUMN NUMBER



N

1 S102 SECOND FLOOR STRUCTURE - NEW WORK
1/4" = 1'-0"



2 S102 SECTION OF NEW WORK AT SECOND FLOOR SLAB
1" = 1'-0"

SHELBY ST.

LAFAYETTE BLVD.

FORT ST.

WASHINGTON BLVD.

N

KEY PLAN

1/4"=1'-0" 0 4' 8'

* UNLESS NOTES OTHERWISE

GRAPHIC SCALE

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SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	LD
CHECKED BY	CE / JH
FLOOR NO.	
DISCIPLINE	STRUCTURAL
PLAN TYPE	
SHEET NUMBER AND FILENAME	S102

SHEET

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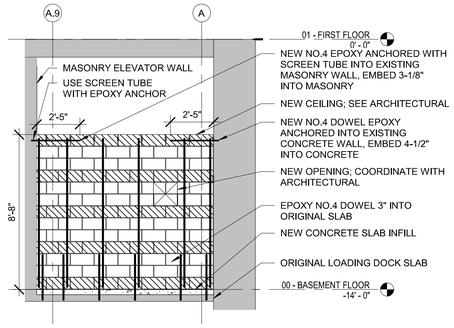
LEGEND:

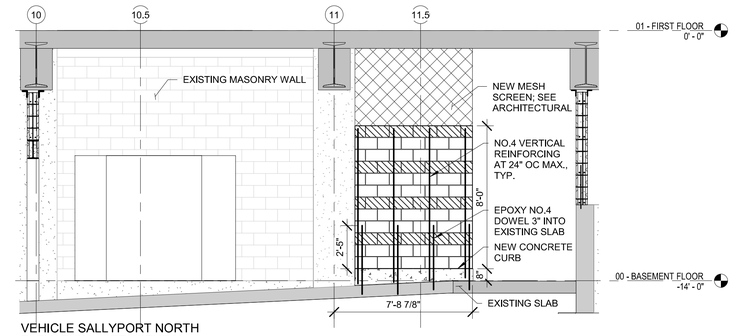
- BOND BEAM COURSE WITH (2) NO.4 HORIZONTAL BARS CONTINUOUS
- W12x26 LINTEL (SEE DETAILS 4, 5, & 6 ON SHEET S501)
- NEW CONCRETE CURB
- EXISTING STEEL STRUCTURE

GENERAL NOTES:

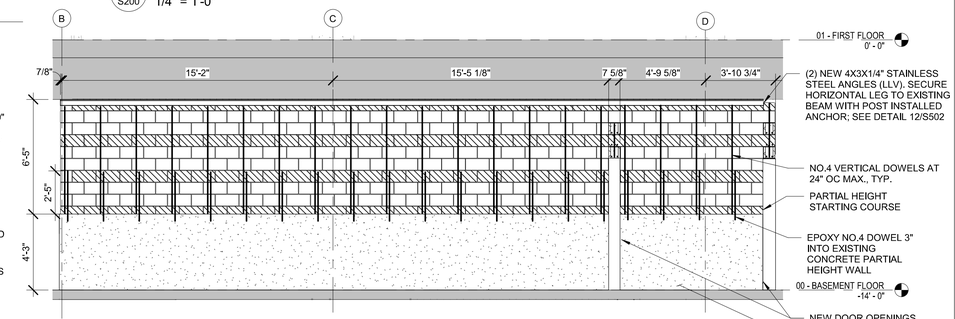
1. LINTELS OVER MAIN DOORS AND MEP OPENINGS TO BE (2) L3-1/2x3-1/2x1/4" LINTEL OR 8" NOMINAL CMU LINTEL WITH (2) NO.4 HORIZONTAL BARS (SEE DETAILS 1, 2, & 3, ON SHEET S501)



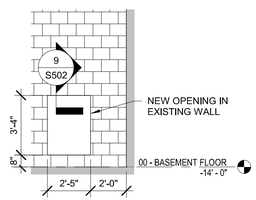
9 S200 SECURE ELEVATOR CORRIDOR WEST WALL - NEW
1/4" = 1'-0"



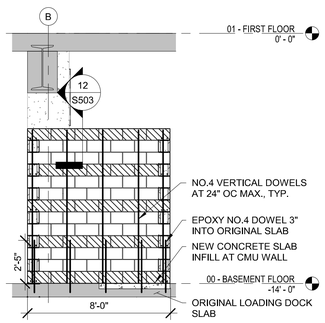
4 S200 VEHICLE SALLYPORT NORTH ELEVATION - STRUCTURAL - NEW
1/4" = 1'-0"



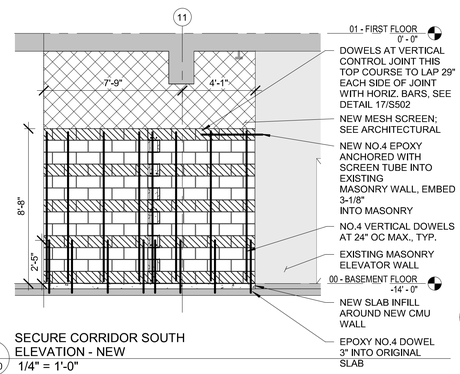
3 S200 VEHICLE SALLYPORT EAST ELEVATION - STRUCTURAL - NEW
1/4" = 1'-0"



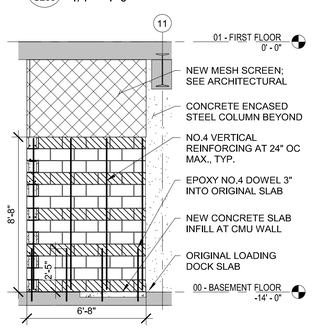
14 S200 NEW OPENING IN EXISTING MASONRY WALL
1/4" = 1'-0"



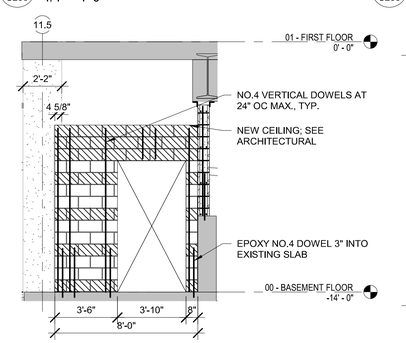
13 S200 VEHICLE SALLYPORT GUN LOCKER WEST WALL NEW
1/4" = 1'-0"



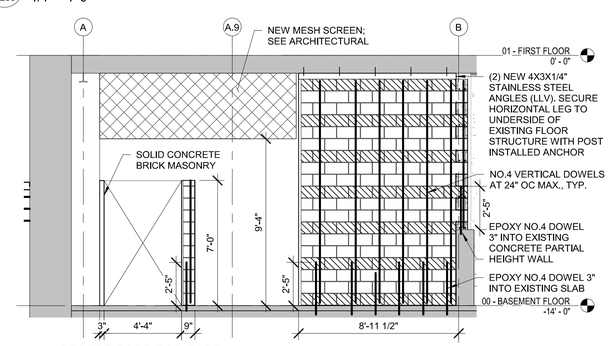
8 S200 SECURE CORRIDOR SOUTH ELEVATION - NEW
1/4" = 1'-0"



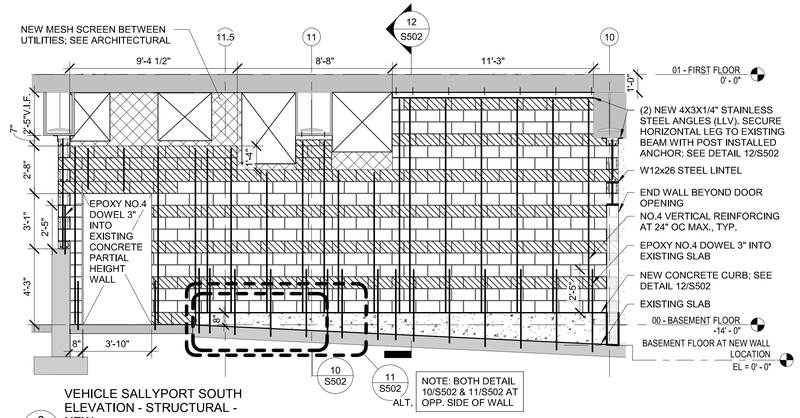
12 S200 SALLYPORT GUN LOCKER NORTH WALL ELEVATION NEW
1/4" = 1'-0"



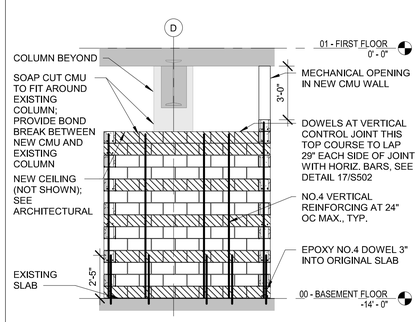
11 S200 VEHICLE SALLY PORT HALLWAY SOUTH WALL -NEW
1/4" = 1'-0"



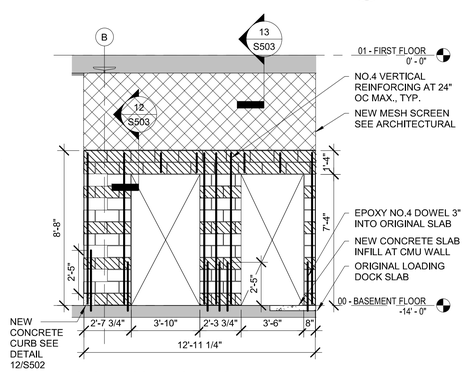
7 S200 SECURE CORRIDOR EAST WALL - NEW
1/4" = 1'-0"



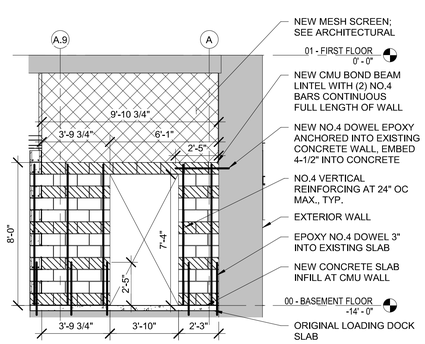
2 S200 VEHICLE SALLYPORT SOUTH ELEVATION - STRUCTURAL - NEW
1/4" = 1'-0"



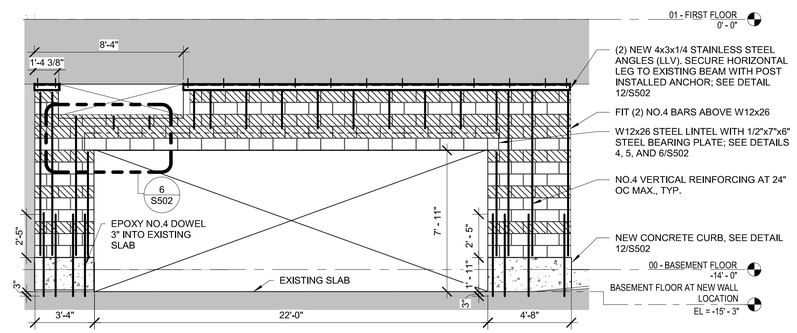
10 S200 VEHICLE SALLYPORT SOUTH HALLWAY ELEVATIONS - WEST WALL - NEW
1/4" = 1'-0"



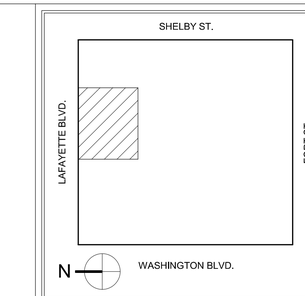
6 S200 SECURE CORRIDOR WEST WALL - 2 - NEW
1/4" = 1'-0"



5 S200 SECURE CORRIDOR WEST WALL - NEW
1/4" = 1'-0"



1 S200 VEHICLE SALLYPORT WEST ELEVATION - STRUCTURAL - NEW
1/4" = 1'-0"



KEY PLAN

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

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BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	LD
CHECKED BY	CE / JH
FLOOR NO.	
DISCIPLINE	STRUCTURAL
PLAN TYPE	
SHEET NUMBER AND FILENAME	S200

SHEET

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LEGEND:

- EXISTING BEAM
- NEW BEAM
- NEW BEAM
- NEW CONCRETE SLAB ON METAL DECK
- NEW 3" CONCRETE TOPPING
- NEW BUILT UP MASONRY
- KEYED NOTES

KEYED NOTES:

1. NEW 3" CONCRETE SLAB ON 2" COMPOSITE METAL DECK (5" TOTAL) WITH 4x4 W1.4xW1.4 WWF AT TOP WITH 3/4" CLEAR COVER

2. NEW 3" CONCRETE TOPPING TO MATCH EXISTING FLOOR ELEVATION AT -4'-6" TOP OF SLAB

3. NEW 4x4x1/4 HSS COLUMN WITH 1/2"x12"x12" BASE PLATE AND (4) 3/4" DIAMETER x 8" EMBEDMENT ANCHOR BOLTS ON 1/2" +/- NON-SHRINK, NON-METALLIC GROUT SPANNING FROM NEW FOOTING IN BASEMENT UP TO -6'-2"

4. NEW 12"x36"x36" FOUNDATION WITH (3) NO.5s EACH WAY ON BOTTOM (3" CLEAR COVER ALL SIDES)

5a. NEW 4x4x1/4 HSS SPANNING FROM -5'-2" TOP OF STEEL TO -1'-8" V.I.F. (2 LOCATIONS)

5b. NEW 4x4x1/4 HSS SPANNING FROM -5'-2" TOP OF STEEL TO -1'-10" V.I.F. (1 LOCATION)

6. NEW W8x15 TOP OF STEEL -1'-4" V.I.F. AS RELATES TO EXISTING SLAB DEPTH THIS LOCATION. PROVIDE NON-SHRINK, NON-METALLIC GROUT BETWEEN EXISTING SLAB AND TOP OF STEEL TO PROVIDE UNIFORM BEARING ALONG BEAM

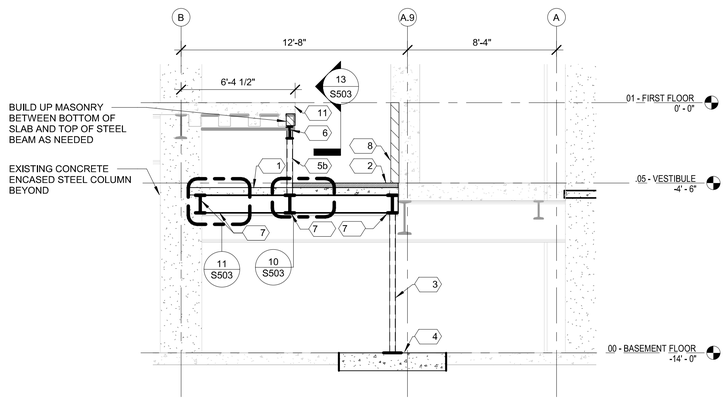
7. NEW W12x26 TOP OF STEEL -5'-2"

8. BUILD UP MASONRY BELOW AND AT EXISTING 8x18.4 I-BEAM TO BE REMOVED

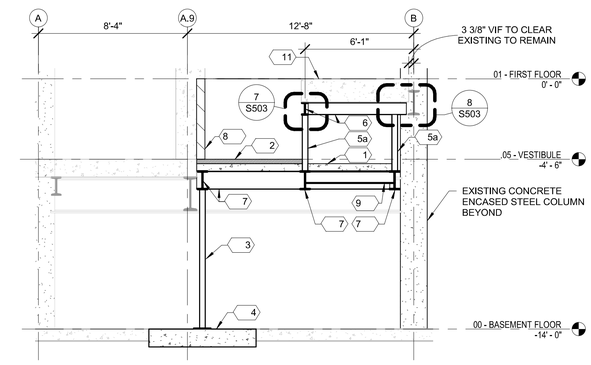
9. NEW 8x15 TOP OF STEEL -5'-2" LOCATE TO SUPPORT LIFT MAST

10. EXISTING 10" BEAM SHORTENED AND SUPPORTED WITH NEW STEEL FRAMING

11. EXISTING TEE-JOIST/SLAB FLOOR SYSTEM, SHORTENED SPAN SUPPORTED WITH NEW STEEL FRAMING



4 S401 WEST ELEVATION - FIRST FLOOR NEW
1/4" = 1'-0"



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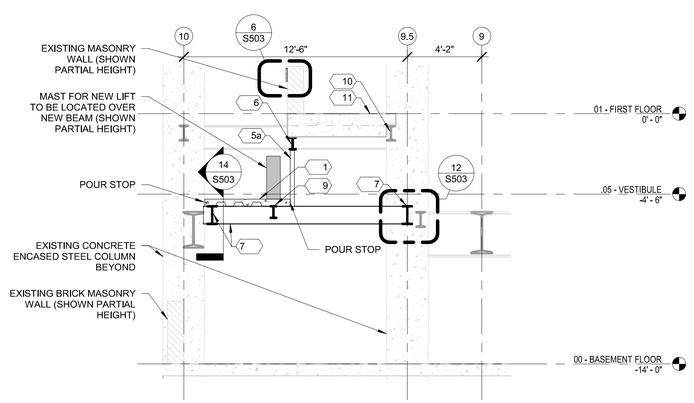
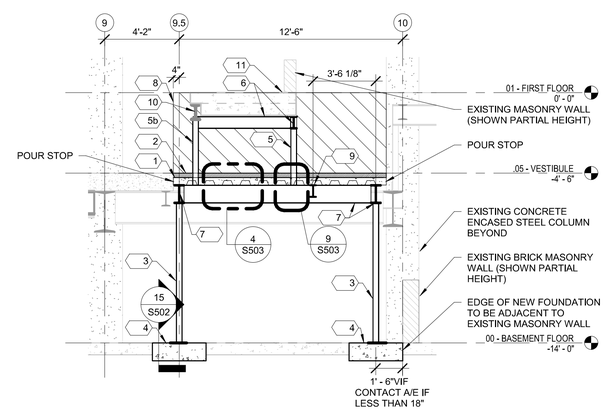
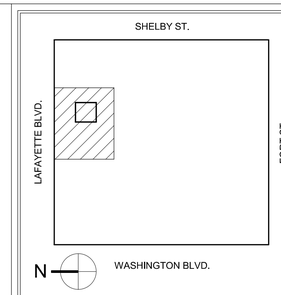
1/4" = 1'-0"



3 S401 SOUTH ELEVATION - FIRST FLOOR NEW
1/4" = 1'-0"



1 S401 NORTH ELEVATION - FIRST FLOOR NEW
1/4" = 1'-0"



KEY PLAN

1/4"=1'-0" 0 4' 8'

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GSA PROJECT NO.	VMI00051
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PROJECT

DRAWN BY	LD / JR
CHECKED BY	CE / JH
FLOOR NO.	
DISCIPLINE	STRUCTURAL
PLAN TYPE	
SHEET NUMBER AND FILENAME	S401

SHEET

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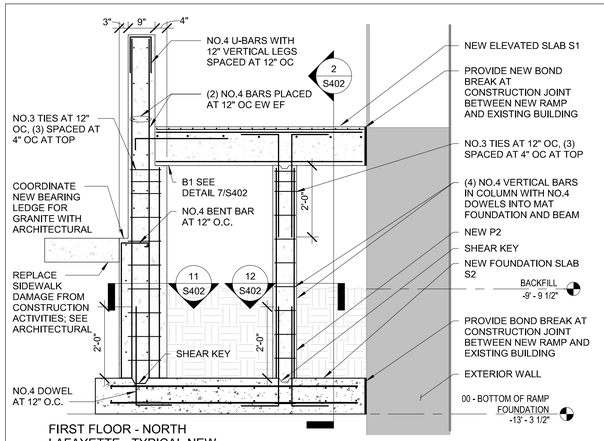
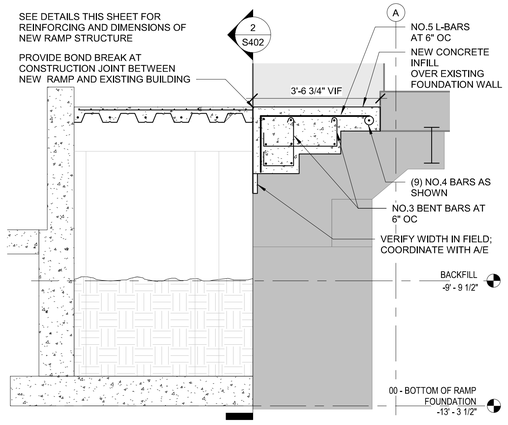
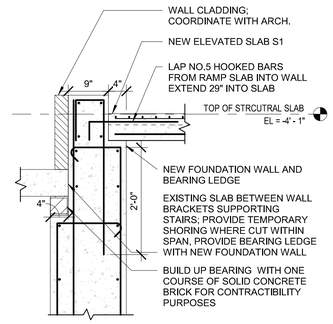


FIRST FLOOR - NORTH LAFAYETTE - TYPICAL NEW WORK SECTION THROUGH RAMP PLATFORM
5 S402 1/2" = 1'-0"



SECTION THROUGH NEW STAIR INFILL
4 S402 1/2" = 1'-0"



9 S402 RAMP TOP EDGE
3/4" = 1'-0"

GENERAL NOTES:

1. COORDINATE TOP ELEVATION OF FOUNDATION WALL WITH ARCHITECTURAL

2. COORDINATE TOP ELEVATION OF FOUNDATION WALL BEARING LEDGE FOR EXISTING SLAB IN FIELD

3. EXCEPTING METAL FORM DECK, REMOVE ALL TEMPORARY SHORING AND BRACING PRIOR TO FULL ENCLOSURE OF UNDERSLAB SPACE

4. METAL FORM DECK ALTERNATE: PROVIDE TEMPORARY WOOD FORM FOR SLAB AND BEAMS. SLAB TO BE 6" TOTAL IN THICKNESS WITH NO.4 BARS AT 12" O.C. ON BOTTOM LONGITUDINALLY WITH 1-1/2" CLEAR COVER, AND 3x3 W3.5xW3.5 WWF MESH ON TOP WITH 1-1/2" CLEAR COVER

SLAB SCHEDULE:

S1 - 3C18 NON-COMPOSITE METAL DECK BY VULCRAFT OR EQUAL WITH 3" CONCRETE (6" TOTAL DEPTH THUS) WITH NO.5S ON BOTTOM AT 12" OC AND 3x3 W3.5 x W3.5 WWF ON TOP; 1-1/2" CLEAR COVER ALL SIDES

S2 - 12" MAT FOUNDATION SLAB WITH NO.5 BARS AT 12" OC EW TOP AND BOTTOM; 3" CLEAR COVER ALL SIDES

BEAM SCHEDULE:

B1 - 8" x 8" WITH (2) NO.4 BARS TOP & BOTTOM, WITH NO.3 STIRRUPS; SEE DETAILS 7/S402 AND 11/S402

PIER SCHEDULE:

P1 - 8x4 WITH REINFORCING AND TIES; SEE DETAILS 5/S402 AND 11/S402

P2 - 8" DIAMETER WITH REINFORCING AND TIES SEE DETAILS 5/S402 AND 12/S402

CONCRETE DETAILING DIMENSIONS:

DEVELOPMENT LENGTH:

3x3 W3.5xW3.5 = 6"

4x4 W4.5xW4.5 = 6"

NO.4 BARS = 18"

NO.5 BARS = 24"

LAP LENGTH:

3x3 W3.5xW3.5 = 9"

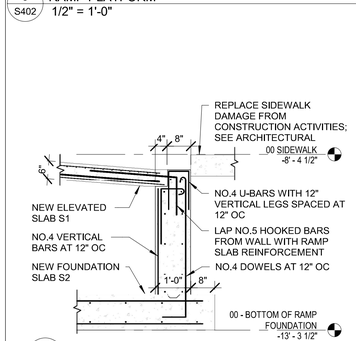
4x4 W4.5xW4.5 = 9"

NO.4 BARS = 24"

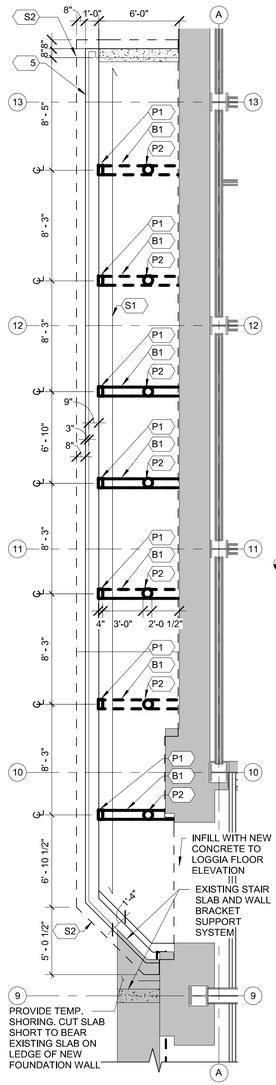
NO.5 BARS = 29"

ABBREVIATIONS:

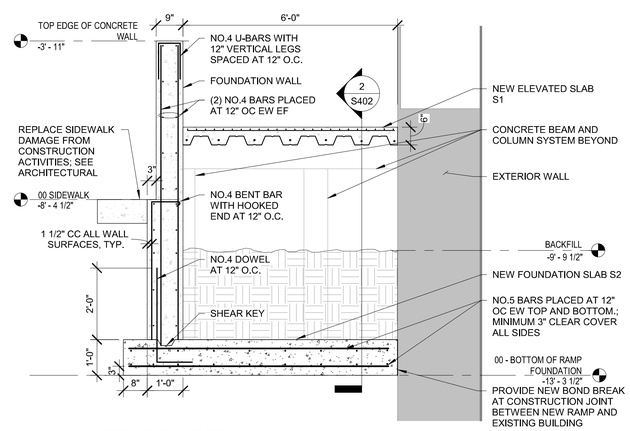
CC	CLEAR COVER
CJ	CONTROL JOINT
CS. J	CONSTRUCTION JOINT
EF	EACH FACE
EW	EACH WAY
OC	ON CENTER



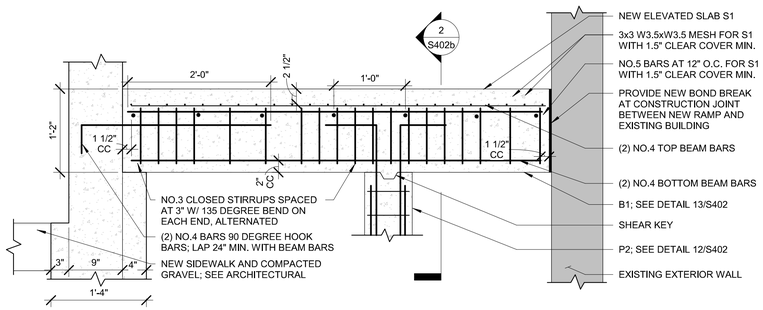
10 S402 END OF RAMP
1/2" = 1'-0"



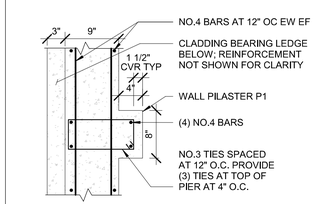
NORTH LAFAYETTE - TYP RAMP NEW WORK FOUNDATION PLAN
3 S402 3/16" = 1'-0"



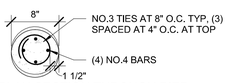
FIRST FLOOR - NORTH LAFAYETTE - TYPICAL NEW WORK SECTION THROUGH RAMP PLATFORM MID SLAB
8 S402 1/2" = 1'-0"



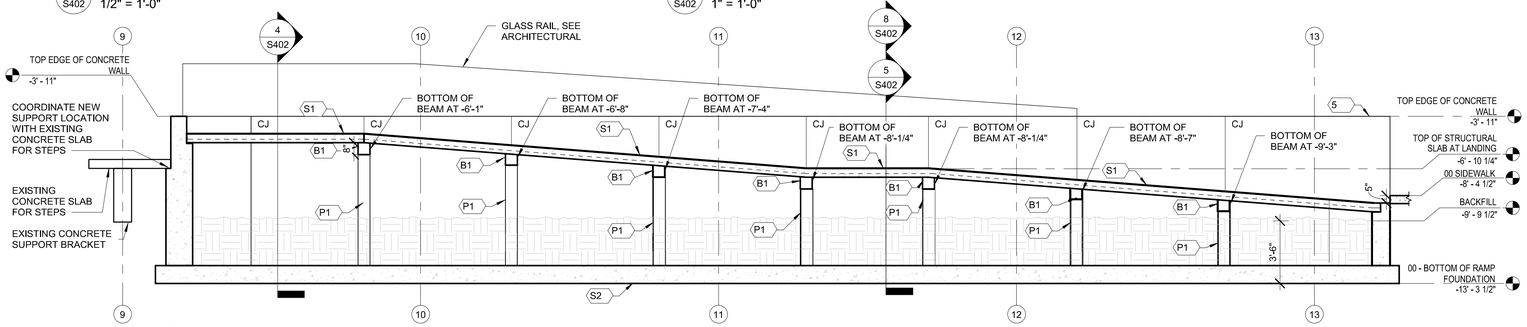
FIRST FLOOR - NORTH LAFAYETTE - TYPICAL NEW RAMP & BEAM REINFORCING
7 S402 1" = 1'-0"



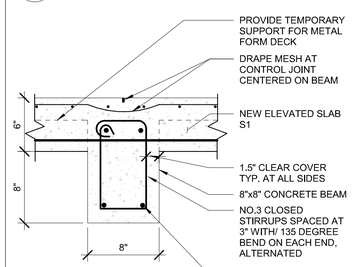
PLAN SECTION THROUGH RAMP WALL PIER (P1)
11 S402 1" = 1'-0"



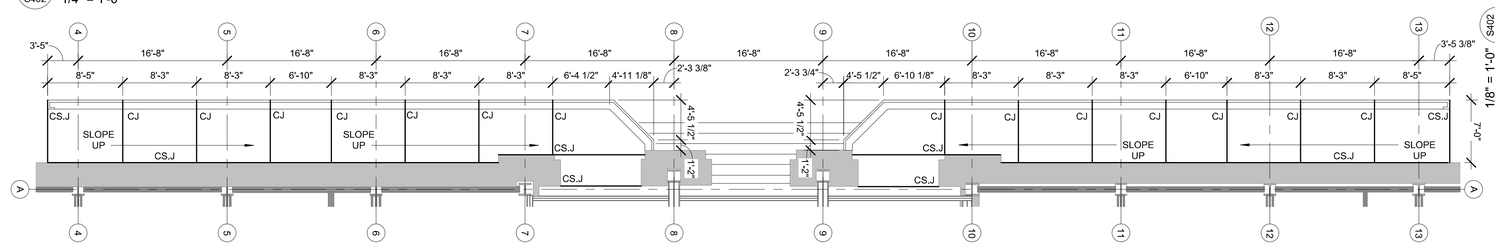
PLAN SECTION THROUGH PIER P2
12 S402 1" = 1'-0"



FIRST FLOOR - NORTH LAFAYETTE RAMP - TYPICAL SECTION
2 S402 1/4" = 1'-0"



FIRST FLOOR - NORTH LAFAYETTE RAMP - TYPICAL BEAM SECTION (B1)
13 S402 1 1/2" = 1'-0"



NORTH LAFAYETTE - RAMP PLAN
1 S402 1/8" = 1'-0"

KEY PLAN

GRAPHIC SCALE
1/4"=1'-0" 0 4" 8"
*UNLESS SHOWN OTHERWISE

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	WJE NO. 2021.1905
DELIVER ORDER NO.	
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

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Wiss, Janney, Elstner Associates, Inc.
30700 Telegraph Road, Suite 3580
Bingham Farms, Michigan 48025
248.593.0900 tel | 248.593.8532 fax
www.wje.com

STAMP OR SEAL

STATE OF MICHIGAN
CHERYL L. EARLY
ENGINEER No. 046795
LICENSED PROFESSIONAL ENGINEER
Cheryl L. Early, P.E.
2023.02.14 12:49:10-05'00'

OWNER IDENTIFICATION

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	LD
CHECKED BY	CE / JH
FLOOR NO.	
DISCIPLINE	STRUCTURAL
PLAN TYPE	
SHEET NUMBER AND FILENAME	S402

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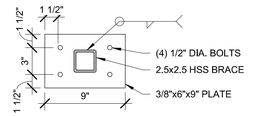
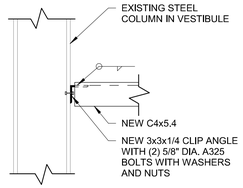
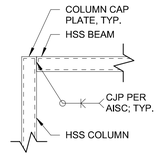


NOTE: CONTACT A/E IF NO ACCESS TO INSTALL AND TIGHTEN BOLTS WITHOUT FURTHER SELECTIVE DEMOLITION THAN WHAT IS DESCRIBED IN THIS PROJECT

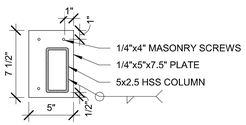
19 S403 TYPICAL GLASS WALL ANCHORAGE DETAIL - BASE PLATE 6 (BP6)
1 1/2" = 1'-0"



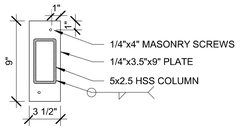
20 S403 TOP MEMBER SUPPORT IN VESTIBULES
1" = 1'-0"



21 S403 TYPICAL HSS CONNECTIONS
1" = 1'-0"



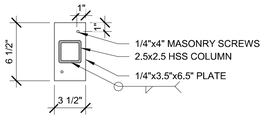
18 S403 TYPICAL GLASS WALL ANCHORAGE DETAIL - BASE PLATE 5 (BP5)
1 1/2" = 1'-0"



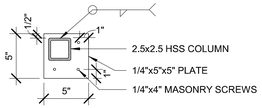
17 S403 TYPICAL GLASS WALL ANCHORAGE DETAIL - BASE PLATE 4 (BP4)
1 1/2" = 1'-0"

NOT USED

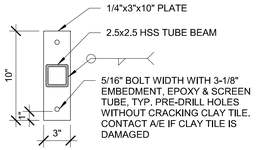
16 S403 NOT USED
1 1/2" = 1'-0"



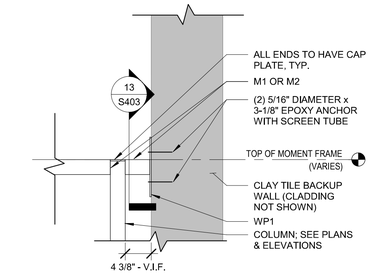
15 S403 TYPICAL GLASS WALL ANCHORAGE DETAIL - BASE PLATE 2 (BP2)
1 1/2" = 1'-0"



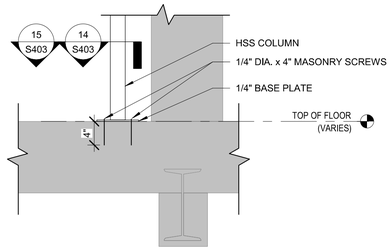
14 S403 TYPICAL GLASS WALL ANCHORAGE DETAIL - BASE PLATE 1 (BP1)
1 1/2" = 1'-0"



13 S403 TYPICAL GLASS WALL ANCHORAGE DETAIL - WALL PLATE 1 (WP1)
1 1/2" = 1'-0"

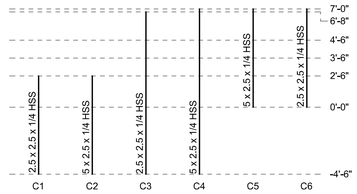


12 S403 SECTION - GLASS WALL ANCHOR TO SECURE INTO WITH CLAY TILE WALL - TYPICAL DETAIL
1" = 1'-0"



11 S403 SECTION - GLASS WALL ANCHOR TIE IN WITH FLOOR - TYPICAL DETAIL
1" = 1'-0"

COLUMN SCHEDULE:



WALL PLATE SCHEDULE:

SEE DETAIL ON SHEET S403

WP1 - 1/4" x 4" x 10" WITH (2) 5/16" DIAMETER x 3-1/8" EPOXY ANCHOR WITH SCREEN TUBE. PRE-DRILL HOLES WITHOUT CRACKING CLAY TILE. CONTACT A/E IF CLAY TILE IS DAMAGED.

GENERAL NOTES:

1. HSS FRAMES FOR PARTIAL HEIGHT GLASS PARTITION WALLS TO BE MOMENT FRAME; SHOP FABRICATE AS MUCH AS REASONABLY POSSIBLE. ALL MEMBER TO MEMBER CONNECTIONS TO BE COMPLETE JOINT PENETRATION (CJP) WELDS.

2. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL

3. ALL COLUMNS FOR GLASS WALL FRAMES TO HAVE CAP PLATE OF SAME THICKNESS AS HSS COLUMN, TYP.

KEYED NOTES:

1. NEW 3x3x1/4" CLIP ANGLES BOLTED TO EXISTING STEEL COLUMN FLANGES WITH (2) 5/8" DIAMETER BOLTS WITH WASHER AND NUTS; SEE DETAIL 20/S403

2. EXISTING STEEL COLUMNS BETWEEN DOORS AT ENTRY VESTIBULE

3. EXISTING 1/4" CHECKERED STEEL PLATE ABOVE ENTRY VESTIBULES

BEAM SCHEDULE:

SEE DETAILS ON SHEET S403

M1 - NOT USED

M2 - 2.5 x 2.5 x 1/4 HSS

M3 - 5 x 2.5 x 1/4 HSS

M4 - C4x5.4 WITH FLANGES FACING DOWN

BASE PLATE SCHEDULE:

SEE DETAILS ON SHEET S403

BP1 - 1/4" x 5" x 5"

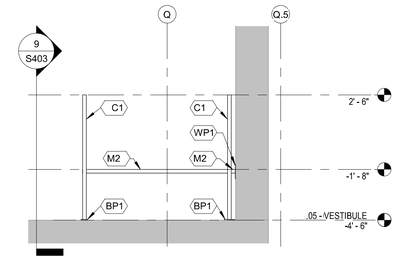
BP2 - 1/4" x 3.5" x 6.5"

BP3 - NOT USED

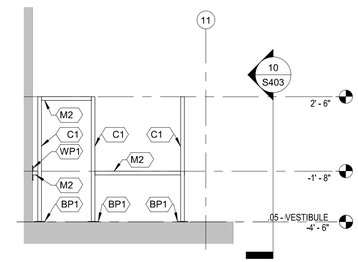
BP4 - 1/4" x 3.5" x 9"

BP5 - 1/4" x 5" x 7.5"

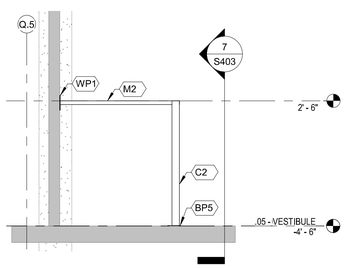
BP6 - 1/4" x 6" x 9"



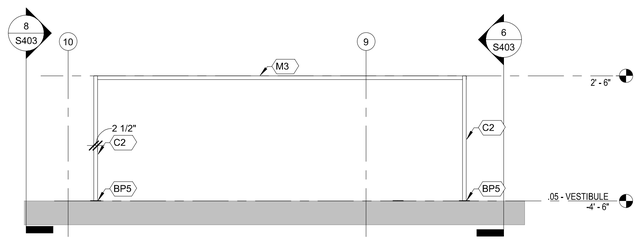
10 S403 FORT STREET ENTRANCE GUARD BOOTH - INTERIOR ELEVATION 2
1/4" = 1'-0"



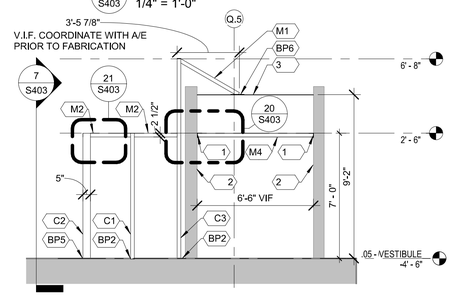
9 S403 FORT STREET ENTRANCE GUARD BOOTH - INTERIOR ELEVATION 1
1/4" = 1'-0"



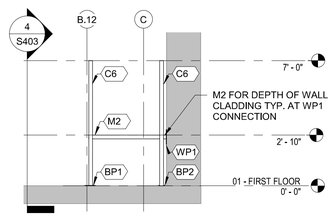
8 S403 FIRST FLOOR - WEST FORT STREET ENTRANCE - INTERIOR ELEVATION 3
1/4" = 1'-0"



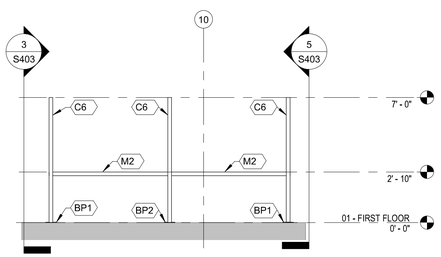
7 S403 FIRST FLOOR - SOUTH FORT STREET ENTRANCE - INTERIOR ELEVATION 2
1/4" = 1'-0"



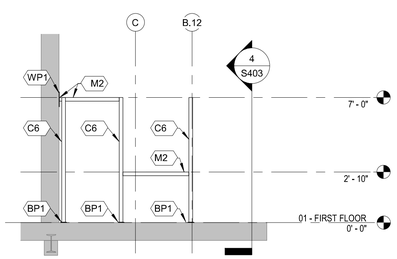
6 S403 FIRST FLOOR - EAST FORT STREET ENTRANCE - INTERIOR ELEVATION
1/4" = 1'-0"



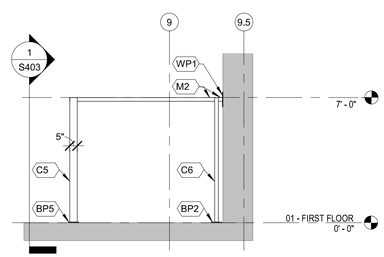
5 S403 LAFAYETTE GUARD BOOTH INTERIOR ELEVATION 3
1/4" = 1'-0"



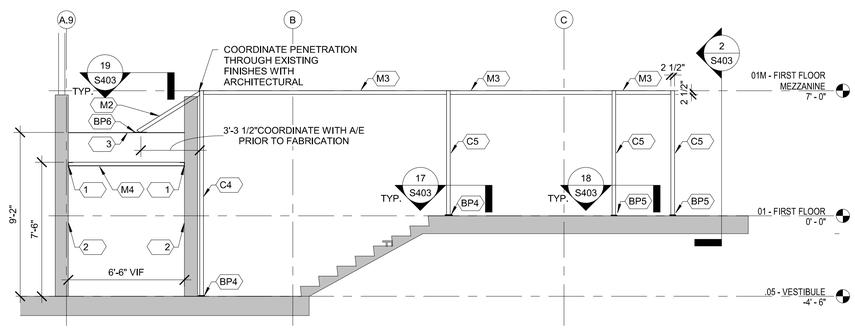
4 S403 LAFAYETTE GUARD BOOTH INTERIOR ELEVATION 2
1/4" = 1'-0"



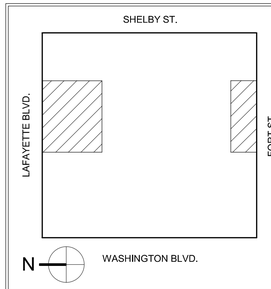
3 S403 LAFAYETTE GUARD BOOTH INTERIOR ELEVATION 1
1/4" = 1'-0"



2 S403 FIRST FLOOR - LAFAYETTE STREET ENTRANCE - INTERIOR ELEVATION 2
1/4" = 1'-0"



1 S403 FIRST FLOOR - NORTH LAFAYETTER ENTRANCE - INTERIOR ELEVATION
1/4" = 1'-0"



KEY PLAN

1/4"=1'-0" 0 4' 8'
*UNLESS SHOWN OTHERWISE

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	WJE NO. 2021.1905
DELIVER ORDER NO.	
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

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CHERYL L. EARLY
ENGINEER No. 046795
LICENSED PROFESSIONAL ENGINEER
Cheryl L. Early, P.E.
2023.02.14 12:49:26-05'00'

STAMP OR SEAL

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	LD
CHECKED BY	CE / JH
FLOOR NO.	
DISCIPLINE	STRUCTURAL
PLAN TYPE	
SHEET NUMBER AND FILENAME	S403

SHEET

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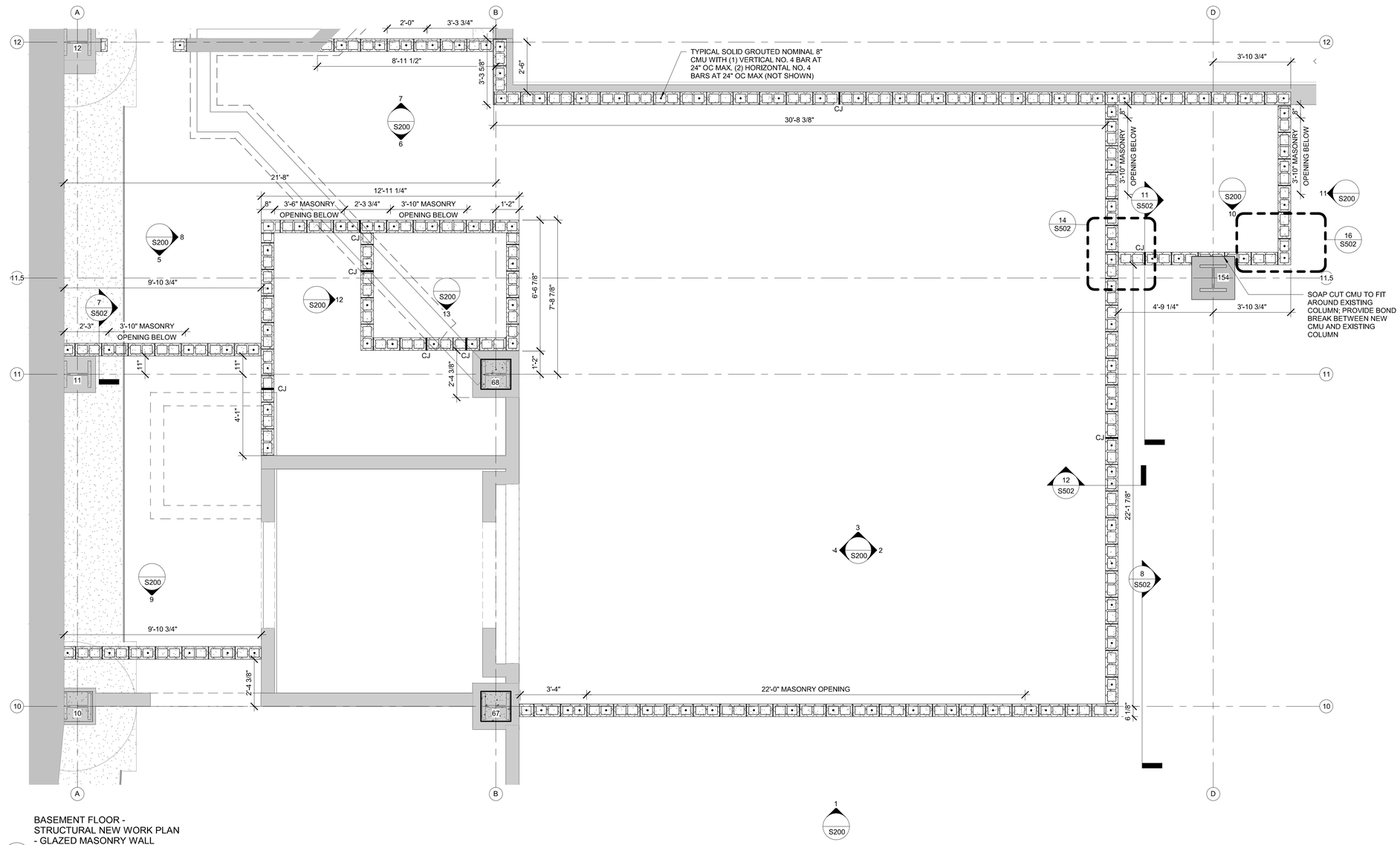
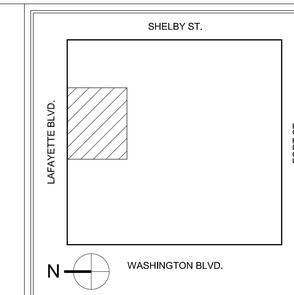


BASEMENT FLOOR - STRUCTURAL NEW WORK PLAN - GLAZED MASONRY WALL DETAIL

1 S501 3/8" = 1'-0"



KEY PLAN

GRAPHIC SCALE

3/8"=1'-0" 0 4' 8'

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2023.02.14 12:49:43-05'00'

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John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

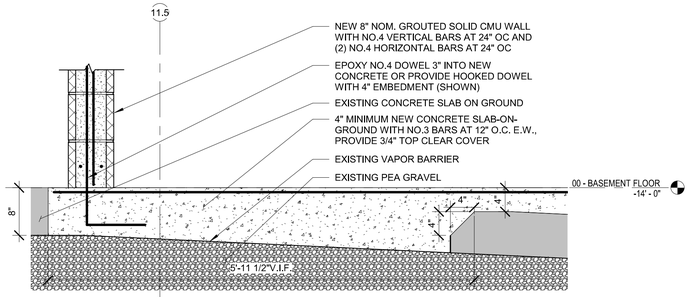
PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

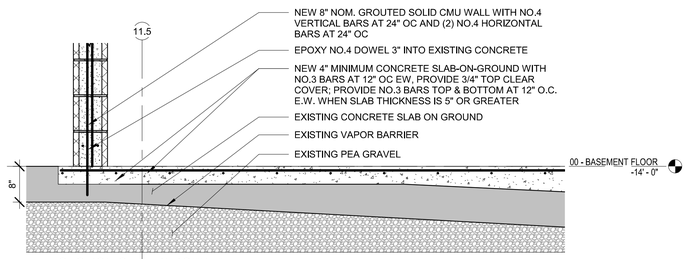
SHEET

DRAWN BY	LD
CHECKED BY	CE / JH
FLOOR NO.	
DISCIPLINE	STRUCTURAL
PLAN TYPE	
SHEET NUMBER AND FILENAME	S501

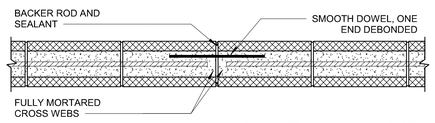
PROPERTY OF THE UNITED STATES GOVERNMENT. This is controlled unclassified information. Do not remove the CUI marking. Properly destroy or return documents when no longer needed.



10 S502 SECTION OF TURNDOWN AT SLAB INFILL
1" = 1'-0"

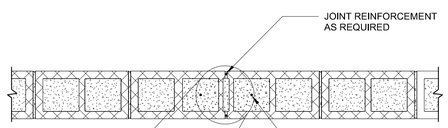


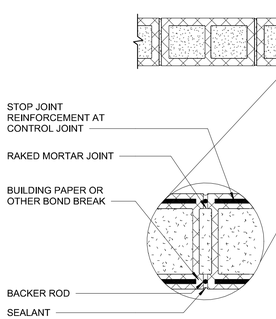
11 S502 SECTION OF TURNDOWN AT SLAB INFILL - ALTERNATE
3/4" = 1'-0"



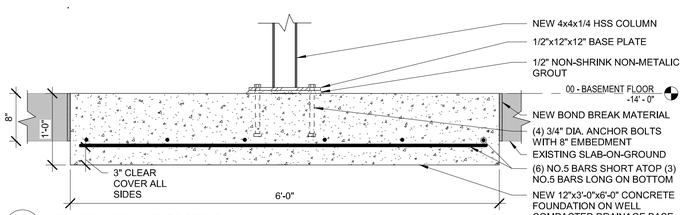
DOWELS TO BE 16-INCHES IN LENGTH UNLESS NOTED OTHERWISE ON S200

17 S502 TYPICAL CONTROL JOINT AT MASONRY BOND BEAMS
1" = 1'-0"

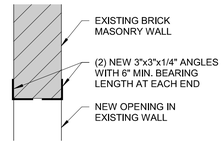




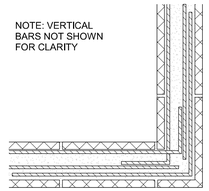
18 S502 TYPICAL VERTICAL CONTROL JOINT
1" = 1'-0"



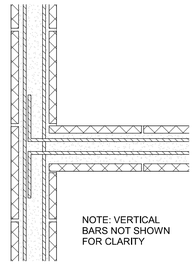
15 S502 NEW COLUMN AND FOOTING
1" = 1'-0"



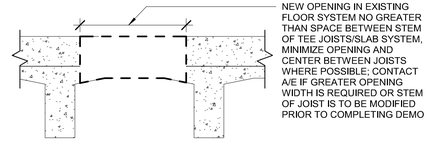
9 S502 NEW OPENING SECTION
1" = 1'-0"



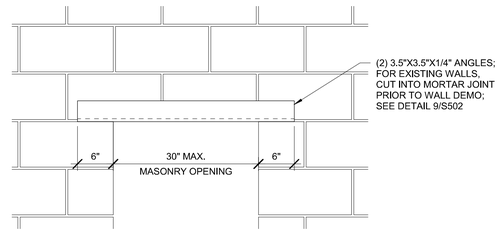
16 S502 TYPICAL CONCRETE/CMU BOND BEAM CORNER DETAIL
1" = 1'-0"



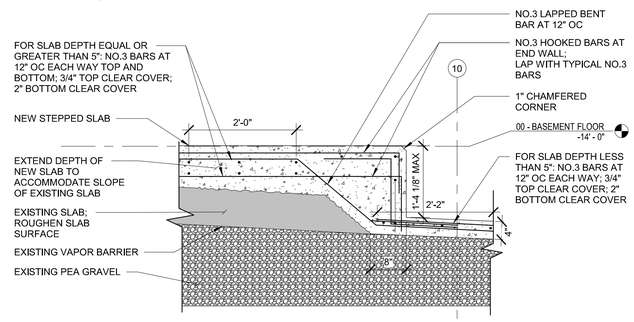
14 S502 TYPICAL CONCRETE/CMU WALL INTERSECTION BOND BEAM DETAIL
1" = 1'-0"



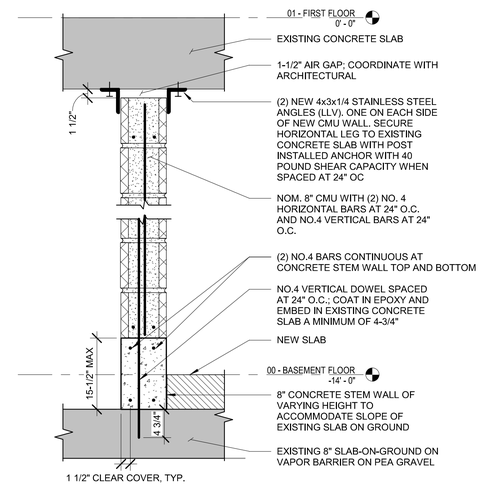
19 S502 TYPICAL OPENING IN EXISTING TEE JOIST-SLAB FLOOR SYSTEM
1" = 1'-0"



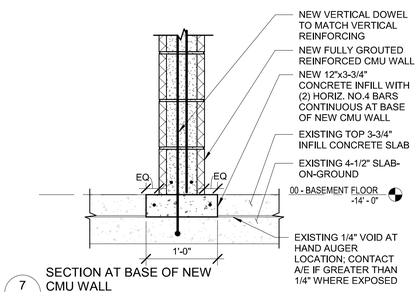
13 S502 TYPICAL LINTEL OPENING FOR MEP
1" = 1'-0"



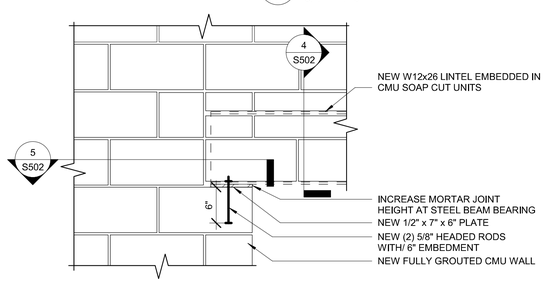
8 S502 SIDE AND END WALL AT NEW RAMP
3/4" = 1'-0"



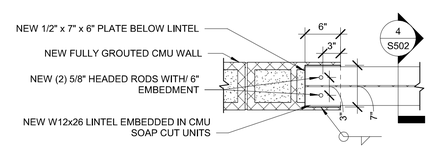
12 S502 SECTION 1 - NEW MASONRY WALL
1" = 1'-0"



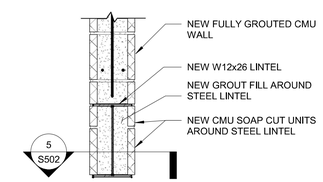
7 S502 SECTION AT BASE OF NEW CMU WALL
1" = 1'-0"



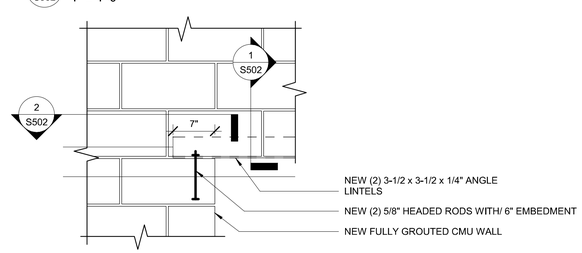
6 S502 INTERIOR ELEVATION OF OVERHEAD DOOR LINTEL - Callout 1
1" = 1'-0"



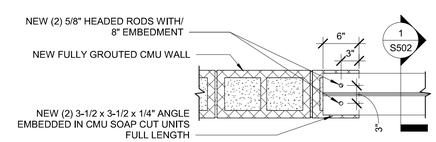
5 S502 NEW PLAN OF OVERHEAD DOOR LINTEL BOLTED CONNECTION
1" = 1'-0"



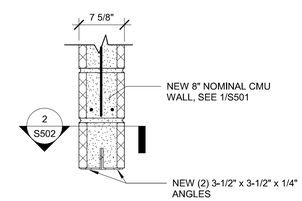
4 S502 NEW LINTEL ABOVE HEAD OF OVERHEAD DOOR
1" = 1'-0"



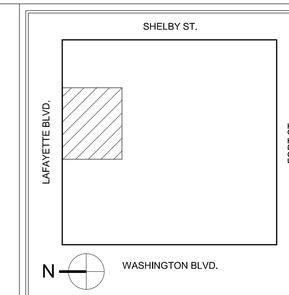
3 S502 INTERIOR ELEVATION OF TYPICAL 3-FOOT WIDE DOOR OPENING IN SALLYPORT
1" = 1'-0"



2 S502 NEW PLAN SECTION OF STEEL ANGLE OPTION TYPICAL MAN DOOR
1" = 1'-0"



1 S502 NEW STEEL ANGLE LINTEL OPTION ABOVE TYPICAL MAN DOOR HEAD
1" = 1'-0"



KEY PLAN

1"=1'-0" 0 1' 2'
*UNLESS SHOWN OTHERWISE

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	WJE NO. 2021.1905
DELIVER ORDER NO.	
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

WJE ENGINEERS ARCHITECTS MATERIALS SCIENTISTS
Wiss, Janney, Elstner Associates, Inc.
30700 Telegraph Road, Suite 3580
Bingham Farms, Michigan 48025
248.593.0900 tel | 248.593.8532 fax
www.wje.com

CONSULTANT IDENTIFICATION

STATE OF MICHIGAN
CHERYL L. EARLY
ENGINEER
No. 046795
LICENSED PROFESSIONAL ENGINEER
Cheryl L. Early, P.E.
2023.02.14 12:49:59-05'00'

STAMP OR SEAL

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	LD / JR
CHECKED BY	CE / JH
FLOOR NO.	
DISCIPLINE	STRUCTURAL
PLAN TYPE	
SHEET NUMBER AND FILENAME	S502

SHEET

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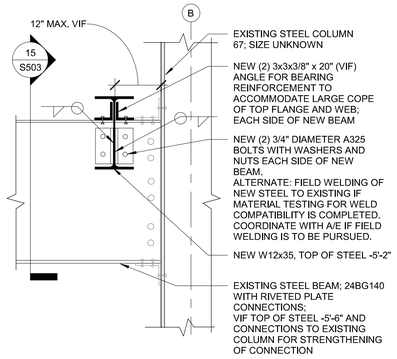
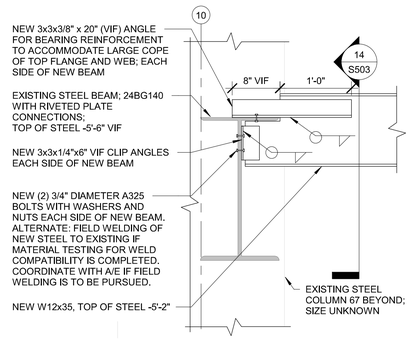
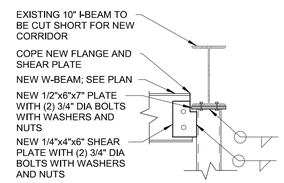


NOTE FOR BID PURPOSES: STRENGTHENING OF EXISTING BEAM TO EXISTING COLUMN CONNECTION TO INCLUDE MATERIAL TESTING FOR POTENTIAL OF ADDING ADDITIONAL WELD MATERIAL OR REMOVING AND REPLACING EXISTING BEAM SEAT AND CONNECTORS.

14 S503 CONNECTION OF NEW STEEL FRAMING TO EXISTING STEEL NEAR COLUMN 67 (EAST SECTION)
1" = 1'-0"

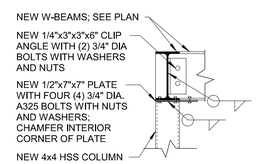


15 S503 CONNECTION OF NEW STEEL FRAMING TO EXISTING STEEL NEAR COLUMN 67 (SOUTH SECTION)
1" = 1'-0"

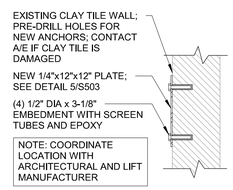


NOTE: VERIFY IN FIELD LOCATION OF EXISTING 10" BEAM PRIOR TO FABRICATION OF NEW STEEL

13 S503 NEW COLUMN TO EXISTING BEAM CONNECTION
1" = 1'-0"

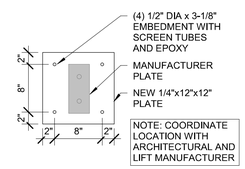


7 S503 NEW BEAM TO NEW COLUMN CONNECTION AT CORNER
1" = 1'-0"



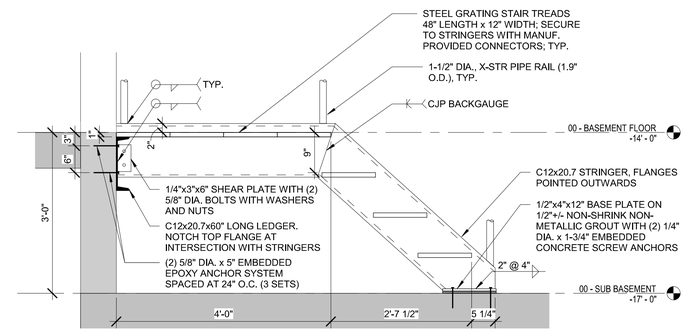
NOTE: COORDINATE LOCATION WITH ARCHITECTURAL AND LIFT MANUFACTURER

6 S503 ANCHORAGE OF LIFT TOWER TO EXISTING CLAY TILE WALL SECTION
1" = 1'-0"

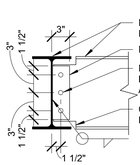


NOTE: COORDINATE LOCATION WITH ARCHITECTURAL AND LIFT MANUFACTURER

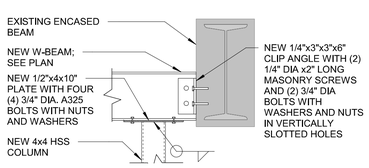
5 S503 ANCHORAGE OF LIFT TOWER TO EXISTING CLAY TILE WALL
1" = 1'-0"



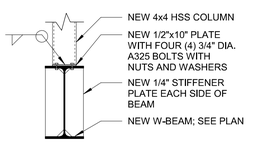
3 S503 SECTION THROUGH BASEMENT STAIR
3/4" = 1'-0"



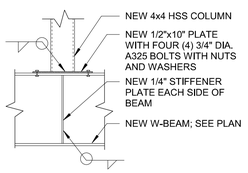
11 S503 NEW STEEL BEAM TO BEAM CONNECTION
1" = 1'-0"



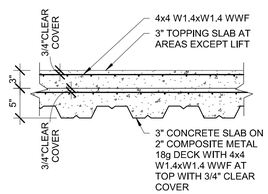
8 S503 NEW BEAM TO NEW COLUMN CONNECTION AT EXISTING ENCASED BEAM
1" = 1'-0"



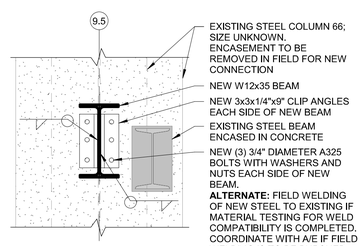
10 S503 NEW COLUMN TO BEAM CONNECTION
1" = 1'-0"



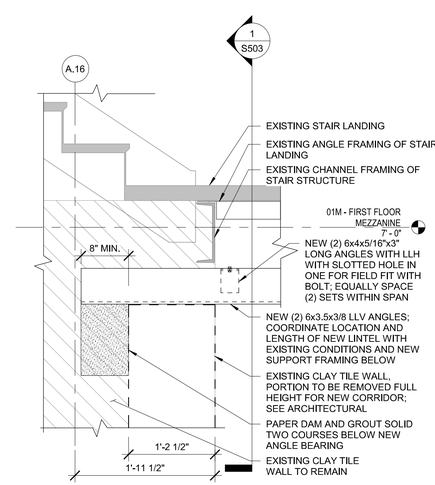
9 S503 NEW COLUMN TO BEAM CONNECTION 2
1" = 1'-0"



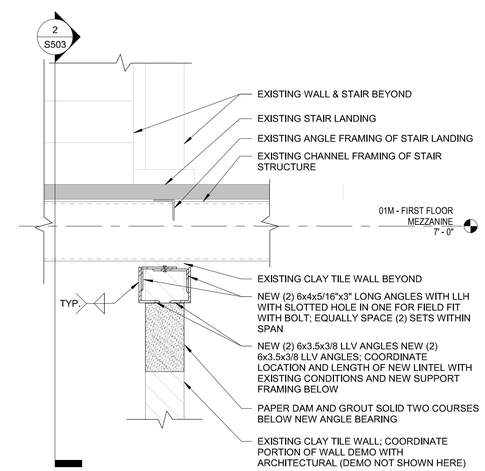
4 S503 CONCRETE SLAB
1" = 1'-0"



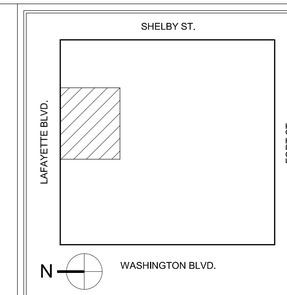
12 S503 CONNECTION OF NEW STEEL FRAMING TO COLUMN 66
1" = 1'-0"



2 S503 NEW SUPPORT BELOW STAIR LANDING CHANNEL AT CLAY TILE WALL (WEST ELEVATION)
1" = 1'-0"



1 S503 NEW SUPPORT BELOW STAIR LANDING CHANNEL AT CLAY TILE WALL (SOUTH ELEVATION)
1" = 1'-0"



KEY PLAN

GRAPHIC SCALE
1"=1'-0" 0 1' 2'
*UNLESS SHOWN OTHERWISE

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	WJE NO. 2021.1905
DELIVER ORDER NO.	
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION
FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION
WJE ENGINEERS ARCHITECTS MATERIALS SCIENTISTS
Wiss, Janney, Elstner Associates, Inc.
30700 Telegraph Road, Suite 3580
Bingham Farms, Michigan 48025
248.593.0900 tel | 248.593.8532 fax
www.wje.com

STAMP OR SEAL
STATE OF MICHIGAN
CHERYL L. EARLY
ENGINEER
No. 046795
LICENSED PROFESSIONAL ENGINEER
Cheryl L. Early, P.E.
2023.02.14 12:50:16-05'00'

OWNER IDENTIFICATION
GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	LD
CHECKED BY	CE / JH
FLOOR NO.	
DISCIPLINE	STRUCTURAL
PLAN TYPE	
SHEET NUMBER AND FILENAME	S503

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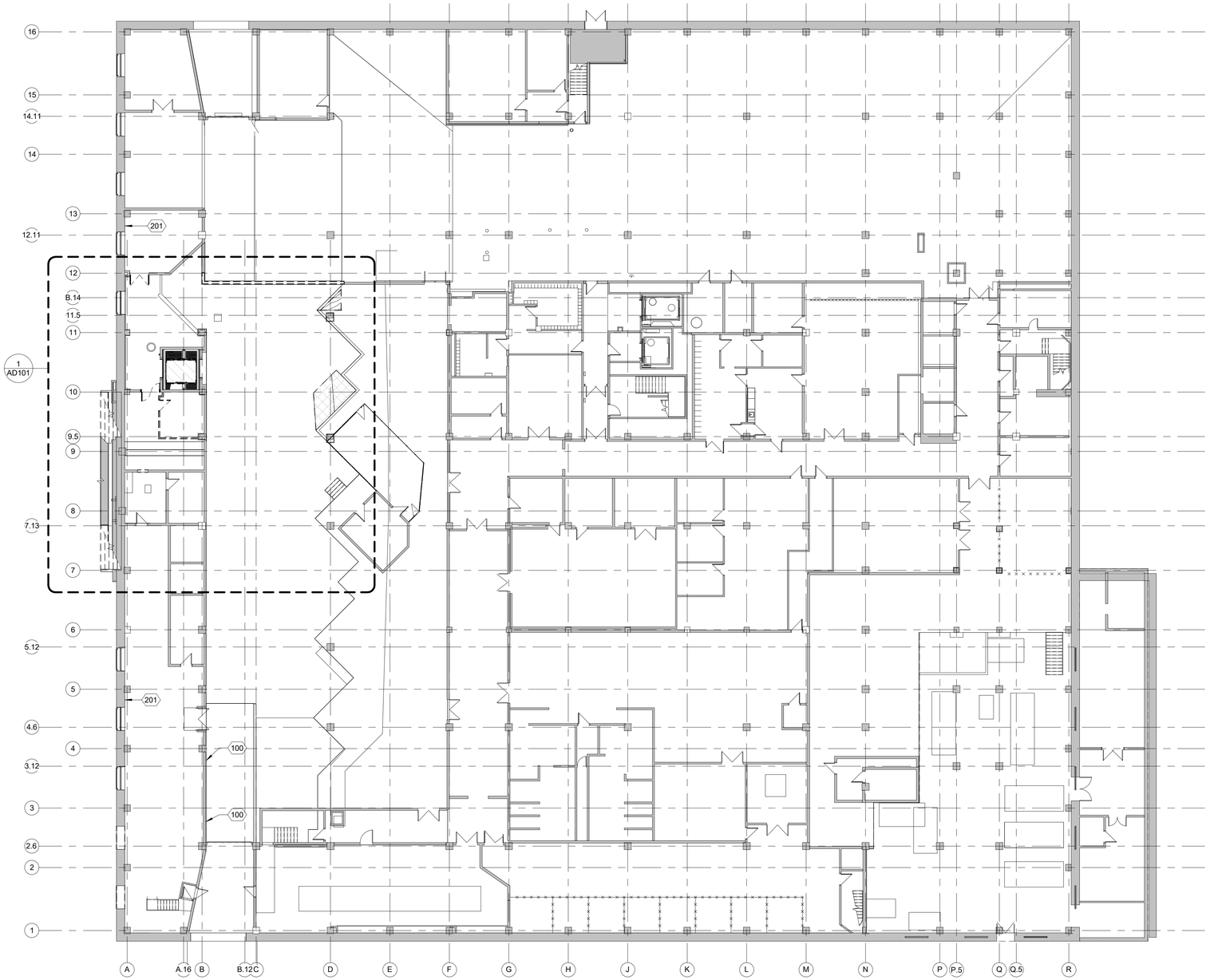


N

1 AD100 BASEMENT FLOOR - DEMO
1/16" = 1'-0"

GENERAL NOTES

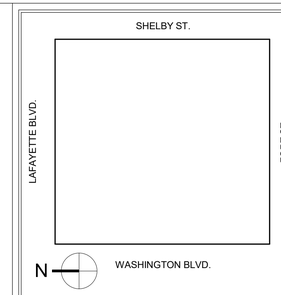
1. CONTRACTOR SHALL COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
2. CONTRACTOR SHALL PROTECT ALL EXISTING CONSTRUCTION AND FINISHES TO REMAIN THROUGHOUT THE PREMISES AND IN ADJACENT AREAS. REFER TO SECTION 01 35 10 HISTORIC TREATMENT PROCEDURES.
3. EXISTING FINISHES ON COLUMNS AND CORE WALLS ARE TO REMAIN U.N.O.
4. DO NOT SCALE DRAWINGS OR MODEL TO OBTAIN REQUIRED DIMENSIONAL INFORMATION. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. ALL EXISTING CONDITIONS ARE TO BE FIELD VERIFIED BY THE G.C. AND ANY DISCREPANCIES BROUGHT TO THE ARCHITECT'S ATTENTION.
5. THE CONTRACTOR SHALL MAINTAIN EGRESS PATHS FROM THE CONSTRUCTION SITE AT ALL TIMES. PROVIDE TEMPORARY DOORS AND PARTITIONS AS REQUIRED WHERE DOORS TO GENERAL CORRIDORS ARE NOTED TO BE REPLACED.
6. CONTRACTOR TO PROVIDE SIGNAGE, DUST PROTECTION, AND FLOOR PROTECTION AS REQUIRED FROM THE PROJECT AREA THROUGH PUBLIC CORRIDORS AND ELEVATOR LOBBIES TO PROTECT EXISTING FINISHES TO REMAIN. REFER TO SECTION 01 35 10 HISTORIC TREATMENT PROCEDURES.
7. A HAZARDOUS MATERIALS ASSESSMENT OF THE EXISTING BUILDING IN RELATIONSHIP TO THE CONTRACT LIMITS HAS BEEN COMPLETED. REFER TO THE PRE-ALTERATION AND ASSESSMENT REPORT WITHIN THE CONTRACT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. MAINTAIN ALL LIFE-SAFETY RELATED SYSTEMS IN FULLY OPERATIONAL STATE THROUGHOUT ALL DEMOLITION AND CONSTRUCTION WORK, INCLUDING BUT NOT LIMITED TO FIRE ALARM SYSTEM INCLUDING PANELS, SIGNAL/NOTIFICATION DEVICES, FIRE SUPPRESSION SYSTEM, AND EMERGENCY LIGHTING.
9. WORK OUTSIDE THE CONTRACT LIMITS MAY BE REQUIRED FOR TIE-INS AND CONNECTIONS. CONTRACTOR TO WORK OUTSIDE OF THE CONTRACT LIMITS AS REQUIRED TO COMPLETE THE ENTIRE SCOPE OF WORK FOR THE PROJECT.
10. COORDINATE WORK WITH ALL OTHER TRADES.
11. CMC SHALL COORDINATE WITH GSA PROPERTY MANAGEMENT REGARDING STORAGE LOCATIONS FOR ITEMS TO BE REMOVED, SALVAGED AND/OR STORED. CMC SHALL BE RESPONSIBLE FOR THE PHYSICAL MOVE OF ITEMS TO THEIR FINAL LOCATION AND SHALL SUBMIT AN INVENTORY LIST OF ITEMS TO BE RETAINED.
12. DEMOLITION SHALL BE EXECUTED IN ACCORDANCE WITH THE HISTORIC TREATMENT PLAN THAT IS SUBMITTED AND APPROVED BY THE CMC AND THEIR QUALIFIED CONSULTANTS.

LEGEND

- EXISTING PARTITION TO REMAIN
- EXISTING PARTITION TO BE REMOVED (REFER TO KEYED NOTES AND LEGEND)
- DOOR AND FRAME TO REMAIN
- DOOR AND FRAME TO BE REMOVED
- REMOVE EXISTING CONCRETE TOPPING OR TOPPING AND SLAB AS REQUIRED FOR NEW WORK. REFER TO STRUCTURAL.
- CMU PARTITION TO BE REMOVED
- REMOVE EXISTING WOOD TOPPING AS REQUIRED FOR NEW WORK.
- REMOVE EXISTING ELEVATOR CAB AND COMPONENTS. REFER TO Q-SHEETS.
- REMOVE CONCRETE SIDEWALK AS REQUIRED FOR NEW WORK. COORDINATE WORK WITH CITY OF DETROIT AND PROJECT PHASING.
- REMOVE EXISTING GRANITE STAIRS AND LANDING AS REQUIRED FOR NEW WORK.
- TEMPORARY SIDEWALK PATH IN STREET AS REQUIRED FOR NEW WORK.

KEYED NOTES

NUMBER	DESCRIPTION
100	CORE GLAZED BRICK WALL AS REQUIRED FOR NEW MECHANICAL EQUIPMENT. REFER TO MECHANICAL/PLUMBING DRAWINGS.
201	CORE THROUGH EXISTING STONE AND CONCRETE PERIMETER WALLS TO RUN POWER TO NEW EAST AND WEST RAMPS RESPECTIVELY, PREFERABLY BELOW GRADE. REFER TO NEW WORK AND ELECTRICAL PLANS.



KEY PLAN

1/16"=1'-0" 0 16' 32'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

CONSULTANT IDENTIFICATION

STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047664
LICENSED ARCHITECT

STAMP OR SEAL

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	BASEMENT FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	DEMO FLOOR PLAN
SHEET NUMBER AND FILENAME	AD100

SHEET

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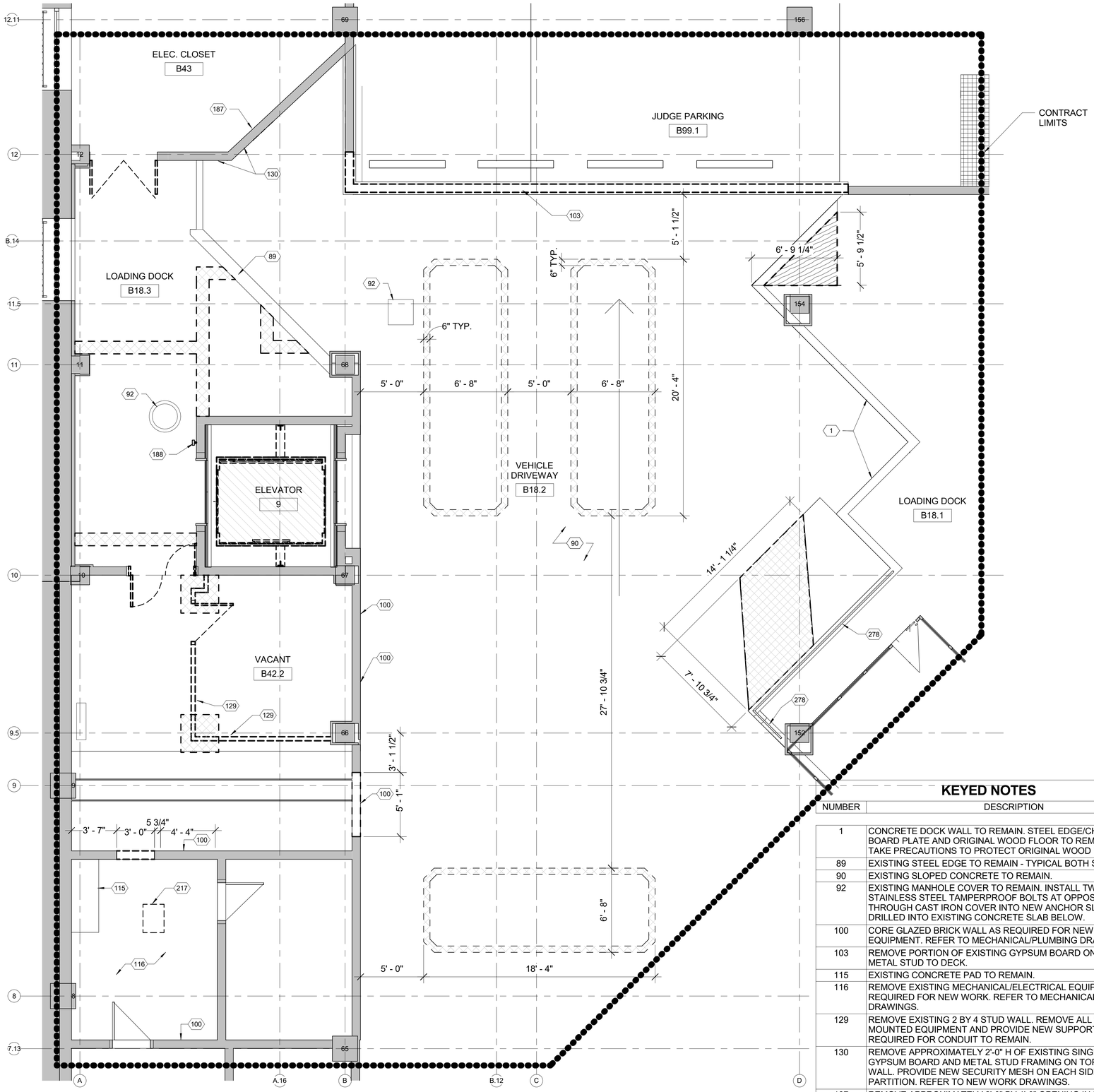

BASEMENT VEHICLE SALLYPORT FLOOR PLAN - DEMO
1/4" = 1'-0"
(1 / AD101)

GENERAL NOTES

1. CONTRACTOR SHALL COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
2. CONTRACTOR SHALL PROTECT ALL EXISTING CONSTRUCTION AND FINISHES TO REMAIN THROUGHOUT THE PREMISES AND IN ADJACENT AREAS. REFER TO SECTION 01 35 10 HISTORIC TREATMENT PROCEDURES.
3. EXISTING FINISHES ON COLUMNS AND CORE WALLS ARE TO REMAIN U.N.O.
4. DO NOT SCALE DRAWINGS OR MODEL TO OBTAIN REQUIRED DIMENSIONAL INFORMATION. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. ALL EXISTING CONDITIONS ARE TO BE FIELD VERIFIED BY THE G.C. AND ANY DISCREPANCIES BROUGHT TO THE ARCHITECT'S ATTENTION.
5. THE CONTRACTOR SHALL MAINTAIN EGRESS PATHS FROM THE CONSTRUCTION SITE AT ALL TIMES. PROVIDE TEMPORARY DOORS AND PARTITIONS AS REQUIRED WHERE DOORS TO GENERAL CORRIDORS ARE NOTED TO BE REPLACED.
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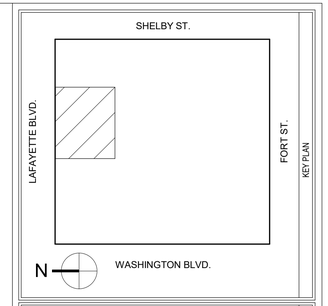
KEYED NOTES

NUMBER	DESCRIPTION
1	CONCRETE DOCK WALL TO REMAIN. STEEL EDGE/CHECKER BOARD PLATE AND ORIGINAL WOOD FLOOR TO REMAIN U.N.O. TAKE PRECAUTIONS TO PROTECT ORIGINAL WOOD FLOORING.
89	EXISTING STEEL EDGE TO REMAIN - TYPICAL BOTH SIDES.
90	EXISTING SLOPED CONCRETE TO REMAIN.
92	EXISTING MANHOLE COVER TO REMAIN. INSTALL TWO 3"L STAINLESS STEEL TAMPERPROOF BOLTS AT OPPOSITE CORNERS THROUGH CAST IRON COVER INTO NEW ANCHOR SLEEVES DRILLED INTO EXISTING CONCRETE SLAB BELOW.
100	CORE GLAZED BRICK WALL AS REQUIRED FOR NEW MECHANICAL EQUIPMENT. REFER TO MECHANICAL/PLUMBING DRAWINGS.
103	REMOVE PORTION OF EXISTING GYPSUM BOARD ON LIGHT GAUGE METAL STUD TO DECK.
115	EXISTING CONCRETE PAD TO REMAIN.
116	REMOVE EXISTING MECHANICAL/ELECTRICAL EQUIPMENT AS REQUIRED FOR NEW WORK. REFER TO MECHANICAL/ELECTRICAL DRAWINGS.
129	REMOVE EXISTING 2 BY 4 STUD WALL. REMOVE ALL SURFACE MOUNTED EQUIPMENT AND PROVIDE NEW SUPPORT AS REQUIRED FOR CONDUIT TO REMAIN.
130	REMOVE APPROXIMATELY 2'-0" H OF EXISTING SINGLE LAYER OF GYPSUM BOARD AND METAL STUD FRAMING ON TOP OF MASONRY WALL. PROVIDE NEW SECURITY MESH ON EACH SIDE OF PARTITION. REFER TO NEW WORK DRAWINGS.
187	REMOVE APPROXIMATELY 2'-0" BY 4'-0" OPENING IN EXISTING GLAZE BRICK WALL FOR NEW WORK.
188	REMOVE AND SALVAGE EXISTING FIRE PROTECTION FOR REINSTALLATION.
217	REMOVE EXISTING CONCRETE PAD COMPLETE.
278	EXISTING SAFETY RAIL TO REMAIN.



GRAPHIC SCALE
1/4"=1'-0" 0 4' 8'

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

CONSULTANT IDENTIFICATION

STAMP OR SEAL
STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047664
LICENSED ARCHITECT

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	BASEMENT FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	DEMO FLOOR PLAN
SHEET NUMBER AND FILENAME	AD101

SHEET

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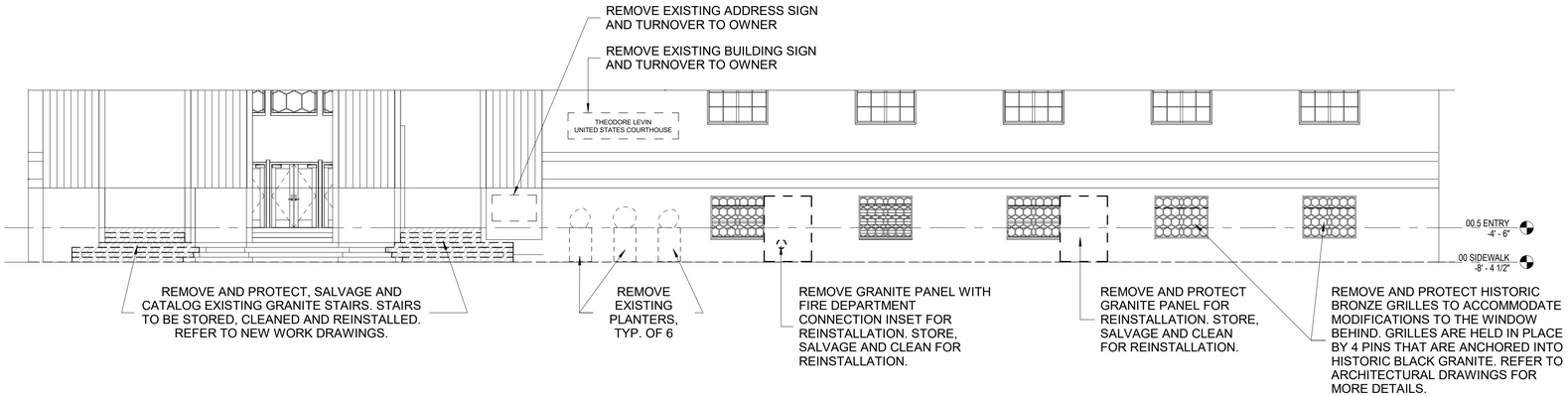
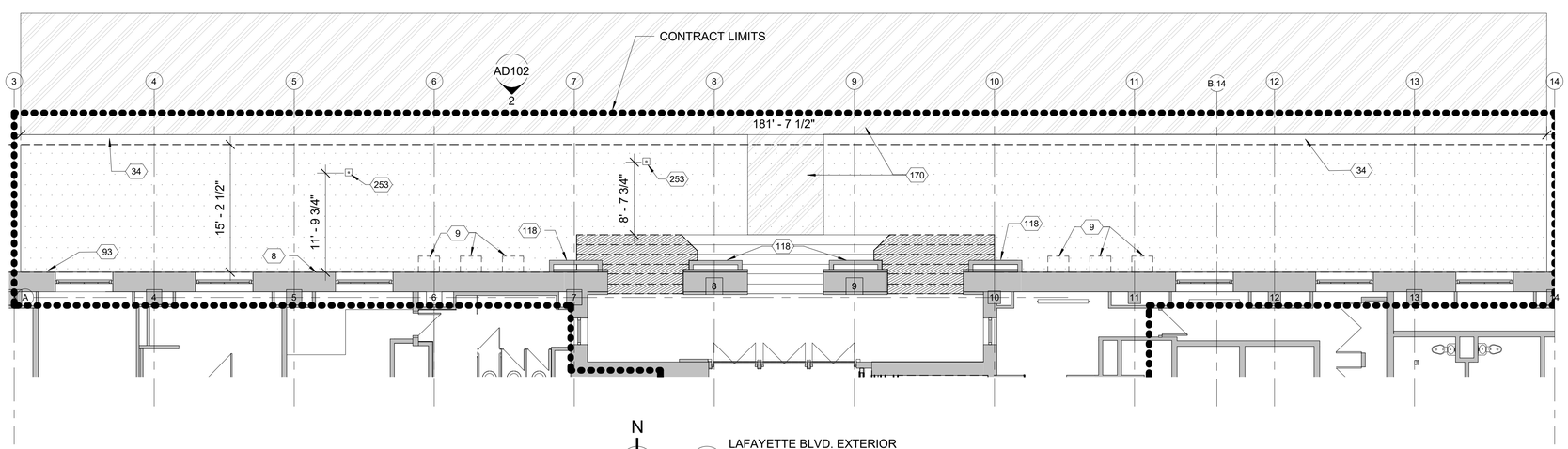
KEYED NOTES

NUMBER	DESCRIPTION
8	REMOVE AND PROTECT (1) GRANITE PANEL WITH FIRE DEPARTMENT CONNECTION INSET. STORE, SALVAGE AND CLEAN PANEL FOR REINSTALLATION. REMOVE AND RELOCATE FIRE DEPARTMENT CONNECTION AS REQUIRED FOR NEW WORK. REFER TO FIRE SUPPRESSION DRAWINGS.
9	REMOVE EXISTING PLANTERS AS REQUIRED FOR NEW WORK, TYP. OF 6. COORDINATE WITH OWNER.
34	REMOVE AND RESET EXISTING GRANITE CURB ON EXISTING CONCRETE CURB FOUNDATION. FOLLOW CITY OF DETROIT DPW STANDARDS.
93	REMOVE AND PROTECT (1) GRANITE PANEL AS REQUIRED FOR RELOCATION OF FIRE DEPARTMENT CONNECTION. STORE, SALVAGE AND CLEAN PANEL FOR REINSTALLATION. REFER TO ELEVATIONS AND NEW WORK PLANS.
118	PROTECT EXISTING EXTERIOR GRANITE/STONE COLUMNS TO REMAIN. PROVIDE HARD PROTECTION AS REQUIRED DURING CONSTRUCTION.
170	REMOVE EXISTING SIDEWALK TO BUILDING CORNERS. A TEMPORARY SIDEWALK TO BE PROVIDED DURING CONSTRUCTION.
253	RELOCATE EXISTING SIGN AND POST.



2 AD102 LAFAYETTE NORTH ELEVATION - DEMO
1/8" = 1'-0"



1 AD102 LAFAYETTE BLVD. EXTERIOR RAMP FLOOR PLAN - DEMO
1/8" = 1'-0"

GENERAL NOTES

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- REMOVE EXISTING ELEVATOR CAB AND COMPONENTS. REFER TO Q-SHEETS.
- REMOVE CONCRETE SIDEWALK AS REQUIRED FOR NEW WORK. COORDINATE WORK WITH CITY OF DETROIT AND PROJECT PHASING.
- REMOVE EXISTING GRANITE STAIRS AND LANDING AS REQUIRED FOR NEW WORK.
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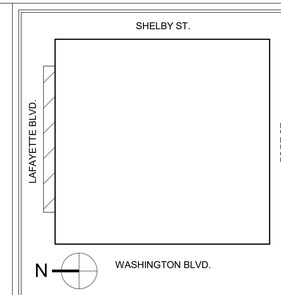

KEY PLAN

GRAPHIC SCALE

1/8"=1'-0" 0 8' 16'

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

CONSULTANT IDENTIFICATION

STAMP OR SEAL

STATE OF MICHIGAN
SCOTT W. GOODSELL
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LICENSED ARCHITECT

General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	EXTERIOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	DEMO FLOOR PLAN
SHEET NUMBER AND FILENAME	AD102

SHEET

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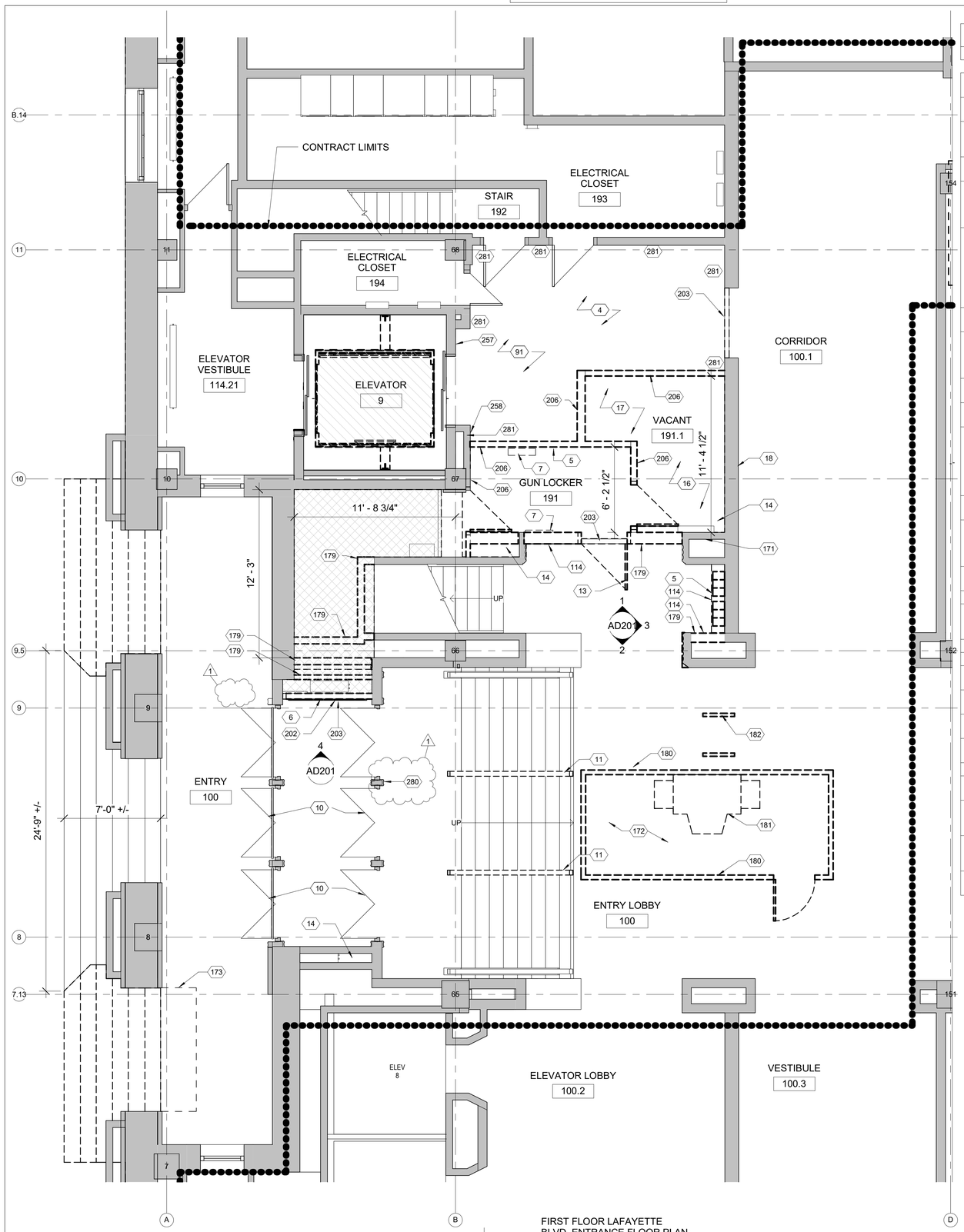

FIRST FLOOR LAFAYETTE BLVD. ENTRANCE FLOOR PLAN-DEMO
1 / AD103
1/4" = 1'-0"

KEYED NOTES

NUMBER	DESCRIPTION
4	REMOVE EXISTING TILE FLOORING AND WALL BASE. PREPARE SUBFLOOR TO RECEIVE NEW FINISH.
5	REMOVE EXISTING CELL PHONE LOCKERS, SALVAGE AND TURN OVER TO OWNER.
6	REMOVE, SALVAGE AND TURN OVER EXISTING DECORATIVE HISTORIC GRILLE TO OWNER. REMOVE, SALVAGE AND REINSTALL EXISTING GRANITE PANELS.
7	REMOVE AND RELOCATE EXISTING ELECTRICAL PANEL BOX AS REQUIRED FOR NEW WORK.
10	REMOVE EXISTING DOOR PULL HANDLE. INSTALL A PAINTED COVER PLATE TO CONCEAL WHERE THE PULL WAS LOCATED. REUSE HOLE LOCATIONS FOR THE FASTENERS TO THE EXTENT POSSIBLE.
11	REMOVE EXISTING METAL HANDRAILS AS REQUIRED FOR NEW WORK. STORE HANDRAILS IN BASEMENT WHERE DIRECTED BY GSA. PATCH TERRAZZO FLOORING AS REQUIRED. PROTECT TERRAZZO TO REMAIN DURING THE DEMOLITION AND CONSTRUCTION PROCESS. PERFORM ALL WORK IN ACCORDANCE WITH THE PRESERVATION PLAN TO BE SUBMITTED PER SECTION 01 35 10 - HISTORIC BUILDING TREATMENT PROCEDURES.
13	REMOVE, SALVAGE AND TURN OVER EXISTING DOOR AND DOOR FRAME TO OWNER.
14	AS PART OF BASE BID, TEMPORARILY PULL BACK CARPET AND CORE FLOOR OPENINGS FOR NEW FLOOR DRAINS. PLACE METAL PLATE COVER OVER OPENING AND READHERE CARPET. COORDINATE WITH MECHANICAL DRAWINGS.
16	REMOVE EXISTING SHELVING AND/OR MILLWORK, AND ALL ASSOCIATED HARDWARE AND COMPONENTS COMPLETE.
17	REMOVE EXISTING ABANDONED FIRE ALARM DEVICES AND PANELS COMPLETE.
18	EXISTING BULLETIN BOARD AND GRANITE COUNTERTOP TO REMAIN. TAKE PRECAUTIONS TO PROTECT EXISTING FURNISHINGS AND FINISHES. PERFORM ALL WORK IN ACCORDANCE WITH THE PRESERVATION PLAN TO BE SUBMITTED PER SECTION 01 35 10 - HISTORIC BUILDING TREATMENT PROCEDURES.
91	REMOVE EXISTING WOOD PANELING FROM WALLS THROUGHOUT. PREPARE SUBSTRATE TO RECEIVE NEW FINISH.
114	REMOVE, SALVAGE, AND PROTECT MANKATO STONE, GRANITE AND GRANITE BASE. SALVAGE MANKATO STONE FOR REINSTALLATION AND ALTERATION. TURN OVER THE REMAINING STONE TO OWNER, PACKAGED AND LABELED.
171	CORE WALL AS REQUIRED FOR NEW PLUMBING. REFER TO PLUMBING DRAWINGS.
172	REMOVE AND PATCH EXISTING TILE FLOORING AS REQUIRED.
173	CAREFULLY GRIND DOWN EDGE OF EXISTING GRANITE STAIR TO ALIGN WITH ADJOINING GRANITE AND ELIMINATE TRIP HAZARD. REPAIR FINISH AS REQUIRED TO MATCH.
179	REMOVE EXISTING CLAY TILE WALL COMPLETE.
180	REMOVE EXISTING FREESTANDING GLASS PARTITIONS.
181	REMOVE EXISTING X-RAY MACHINE. REMOVED BY THE USMS OR THEIR SUBCONTRACTOR, MC DEAN.
182	REMOVE EXISTING MAGNETOMETER MACHINE. REMOVED BY THE USMS OR THEIR SUBCONTRACTOR, MC DEAN.
202	REMOVE AND SALVAGE EXISTING GRANITE BASE AND TURN OVER TO OWNER.
203	REMOVE FLOOR TOPPING TO ACCOMMODATE 1" THICK TRANSITION TO BE FLUSH.
206	REMOVE EXISTING GYPSUM BOARD AND STUD WALL COMPLETE.
257	REMOVE AND PROTECT FIRE DEPARTMENT EMERGENCY (KNOX) BOX FOR RELOCATION TO ACCOMMODATE NEW WORK.
258	REMOVE AND PROTECT (1) PUSH BUTTONS. REMOVE AND RELOCATE ELEVATOR PUSH BUTTONS REQUIRED FOR NEW WORK.
280	REMOVE PORTION OF DECORATIVE PLASTER PARAPET WALL TO PRECISELY FIT WALL KICKER SUPPORT. COORDINATE WITH STRUCTURAL.
281	REMOVE (E) WOOD PANELING AND ASSOCIATED WOOD BASE AND DOOR CASING.

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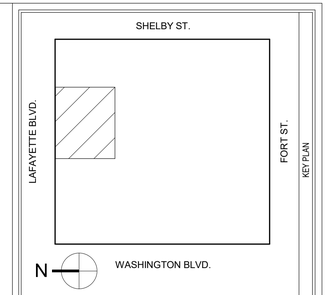
- DOOR AND FRAME TO REMAIN
- DOOR AND FRAME TO BE REMOVED
- REMOVE EXISTING CONCRETE TOPPING OR TOPPING AND SLAB AS REQUIRED FOR NEW WORK. REFER TO STRUCTURAL.
- CMU PARTITION TO BE REMOVED
- REMOVE EXISTING WOOD TOPPING AS REQUIRED FOR NEW WORK.
- REMOVE EXISTING ELEVATOR CAB AND COMPONENTS. REFER TO Q-SHEETS.
- REMOVE CONCRETE SIDEWALK AS REQUIRED FOR NEW WORK. COORDINATE WORK WITH CITY OF DETROIT AND PROJECT PHASING.
- REMOVE EXISTING GRANITE STAIRS AND LANDING AS REQUIRED FOR NEW WORK.
- TEMPORARY SIDEWALK PATH IN STREET AS REQUIRED FOR NEW WORK.



KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION
1	02/15/2023	100% Revision

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

CONSULTANT IDENTIFICATION

STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047664
LICENSED ARCHITECT

STAMP OR SEAL

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	DEMO FLOOR PLAN
SHEET NUMBER AND FILENAME	AD103

SHEET

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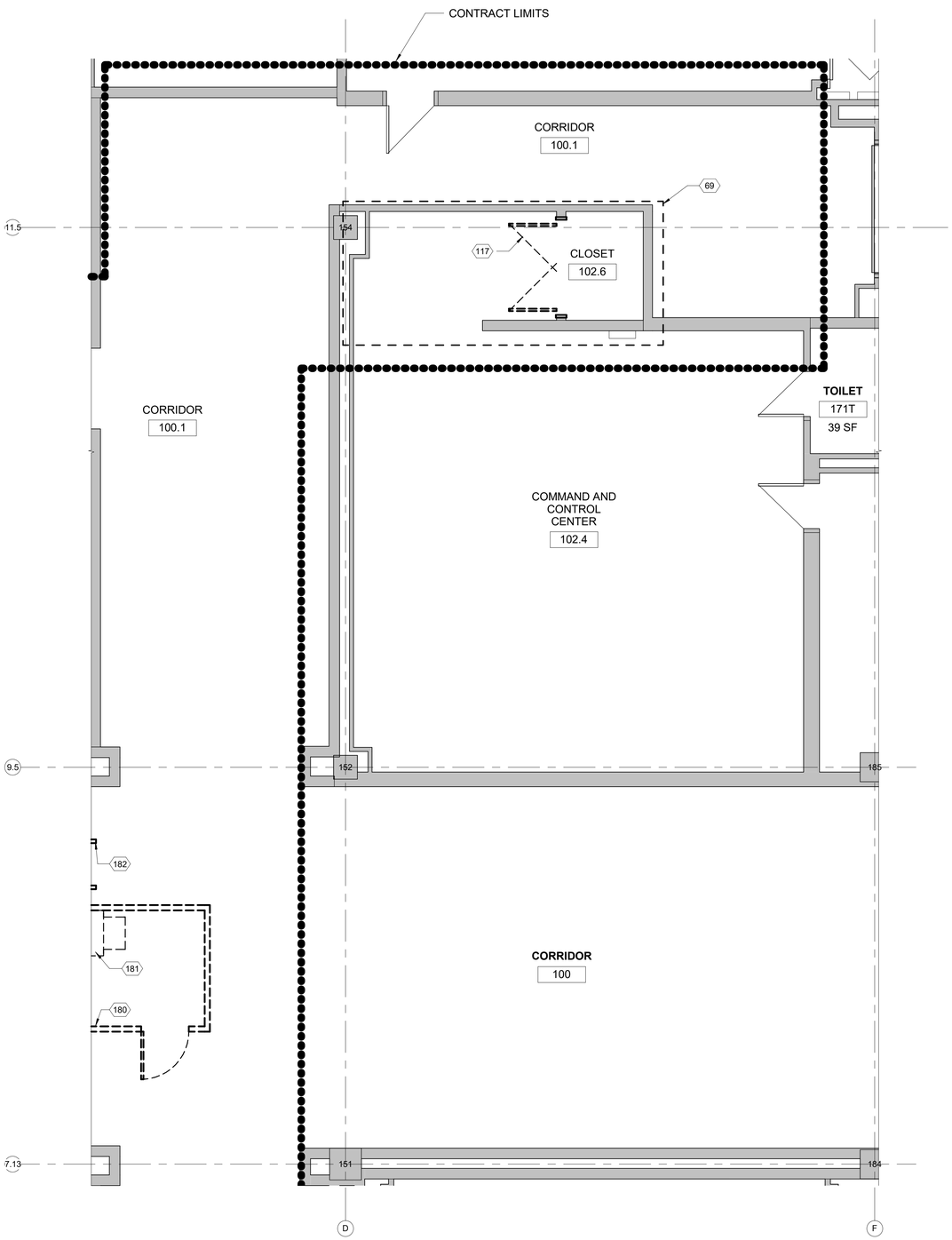

N

1
AD104

FIRST FLOOR - COMMAND AND CONTROL CENTER FLOOR PLAN - DEMO
1/4" = 1'-0"

KEYED NOTES

NUMBER	DESCRIPTION
69	WORK ASSOCIATED WITH ENLARGING SECURITY CLOSET RISER IS TO PRICED AS PART OF OPTION 1.
117	REMOVE EXISTING DOOR LEAVES AND SALVAGE FOR REINSTALLATION IN NEW FRAME. LEAVE EXISTING HOLLOW METAL FRAME AND INFILL HINGE LOCATIONS WITH PLATES. PAINT ENTIRE FRAME TO REMAIN.
180	REMOVE EXISTING FREESTANDING GLASS PARTITIONS.
181	REMOVE EXISTING X-RAY MACHINE. REMOVED BY THE USMS OR THEIR SUBCONTRACTOR, MC DEAN.
182	REMOVE EXISTING MAGNETOMETER MACHINE. REMOVED BY THE USMS OR THEIR SUBCONTRACTOR, MC DEAN.

GENERAL NOTES

1. CONTRACTOR SHALL COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
2. CONTRACTOR SHALL PROTECT ALL EXISTING CONSTRUCTION AND FINISHES TO REMAIN THROUGHOUT THE PREMISES AND IN ADJACENT AREAS. REFER TO SECTION 01 35 10 HISTORIC TREATMENT PROCEDURES.
3. EXISTING FINISHES ON COLUMNS AND CORE WALLS ARE TO REMAIN U.N.O.
4. DO NOT SCALE DRAWINGS OR MODEL TO OBTAIN REQUIRED DIMENSIONAL INFORMATION. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. ALL EXISTING CONDITIONS ARE TO BE FIELD VERIFIED BY THE G.C. AND ANY DISCREPANCIES BROUGHT TO THE ARCHITECT'S ATTENTION.
5. THE CONTRACTOR SHALL MAINTAIN EGRESS PATHS FROM THE CONSTRUCTION SITE AT ALL TIMES. PROVIDE TEMPORARY DOORS AND PARTITIONS AS REQUIRED WHERE DOORS TO GENERAL CORRIDORS ARE NOTED TO BE REPLACED.
6. CONTRACTOR TO PROVIDE SIGNAGE, DUST PROTECTION, AND FLOOR PROTECTION AS REQUIRED FROM THE PROJECT AREA THROUGH PUBLIC CORRIDORS AND ELEVATOR LOBBIES TO PROTECT EXISTING FINISHES TO REMAIN. REFER TO SECTION 01 35 10 HISTORIC TREATMENT PROCEDURES.
7. A HAZARDOUS MATERIALS ASSESSMENT OF THE EXISTING BUILDING IN RELATIONSHIP TO THE CONTRACT LIMITS HAS BEEN COMPLETED. REFER TO THE PRE-ALTERATION AND ASSESSMENT REPORT WITHIN THE CONTRACT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. MAINTAIN ALL LIFE-SAFETY RELATED SYSTEMS IN FULLY OPERATIONAL STATE THROUGHOUT ALL DEMOLITION AND CONSTRUCTION WORK, INCLUDING BUT NOT LIMITED TO FIRE ALARM SYSTEM INCLUDING PANELS, SIGNAL/NOTIFICATION DEVICES, FIRE SUPPRESSION SYSTEM, AND EMERGENCY LIGHTING.
9. WORK OUTSIDE THE CONTRACT LIMITS MAY BE REQUIRED FOR TIE-INS AND CONNECTIONS. CONTRACTOR TO WORK OUTSIDE OF THE CONTRACT LIMITS AS REQUIRED TO COMPLETE THE ENTIRE SCOPE OF WORK FOR THE PROJECT.
10. COORDINATE WORK WITH ALL OTHER TRADES.
11. CMC SHALL COORDINATE WITH GSA PROPERTY MANAGEMENT REGARDING STORAGE LOCATIONS FOR ITEMS TO BE REMOVED, SALVAGED AND/OR STORED. CMC SHALL BE RESPONSIBLE FOR THE PHYSICAL MOVE OF ITEMS TO THEIR FINAL LOCATION AND SHALL SUBMIT AN INVENTORY LIST OF ITEMS TO BE RETAINED.
12. DEMOLITION SHALL BE EXECUTED IN ACCORDANCE WITH THE HISTORIC TREATMENT PLAN THAT IS SUBMITTED AND APPROVED BY THE CMC AND THEIR QUALIFIED CONSULTANTS.

LEGEND

- EXISTING PARTITION TO REMAIN
- EXISTING PARTITION TO BE REMOVED (REFER TO KEYED NOTES AND LEGEND)
- DOOR AND FRAME TO REMAIN
- DOOR AND FRAME TO BE REMOVED
- REMOVE EXISTING CONCRETE TOPPING OR TOPPING AND SLAB AS REQUIRED FOR NEW WORK. REFER TO STRUCTURAL.
- CMU PARTITION TO BE REMOVED
- REMOVE EXISTING WOOD TOPPING AS REQUIRED FOR NEW WORK.
- REMOVE EXISTING ELEVATOR CAB AND COMPONENTS. REFER TO Q-SHEETS.
- REMOVE CONCRETE SIDEWALK AS REQUIRED FOR NEW WORK. COORDINATE WORK WITH CITY OF DETROIT AND PROJECT PHASING.
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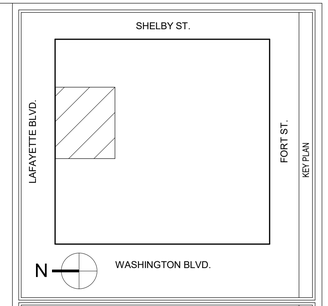

KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

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DELIVER ORDER NO.	47PF0021F0822
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BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	DEMO FLOOR PLAN
SHEET NUMBER AND FILENAME	AD104

SHEET

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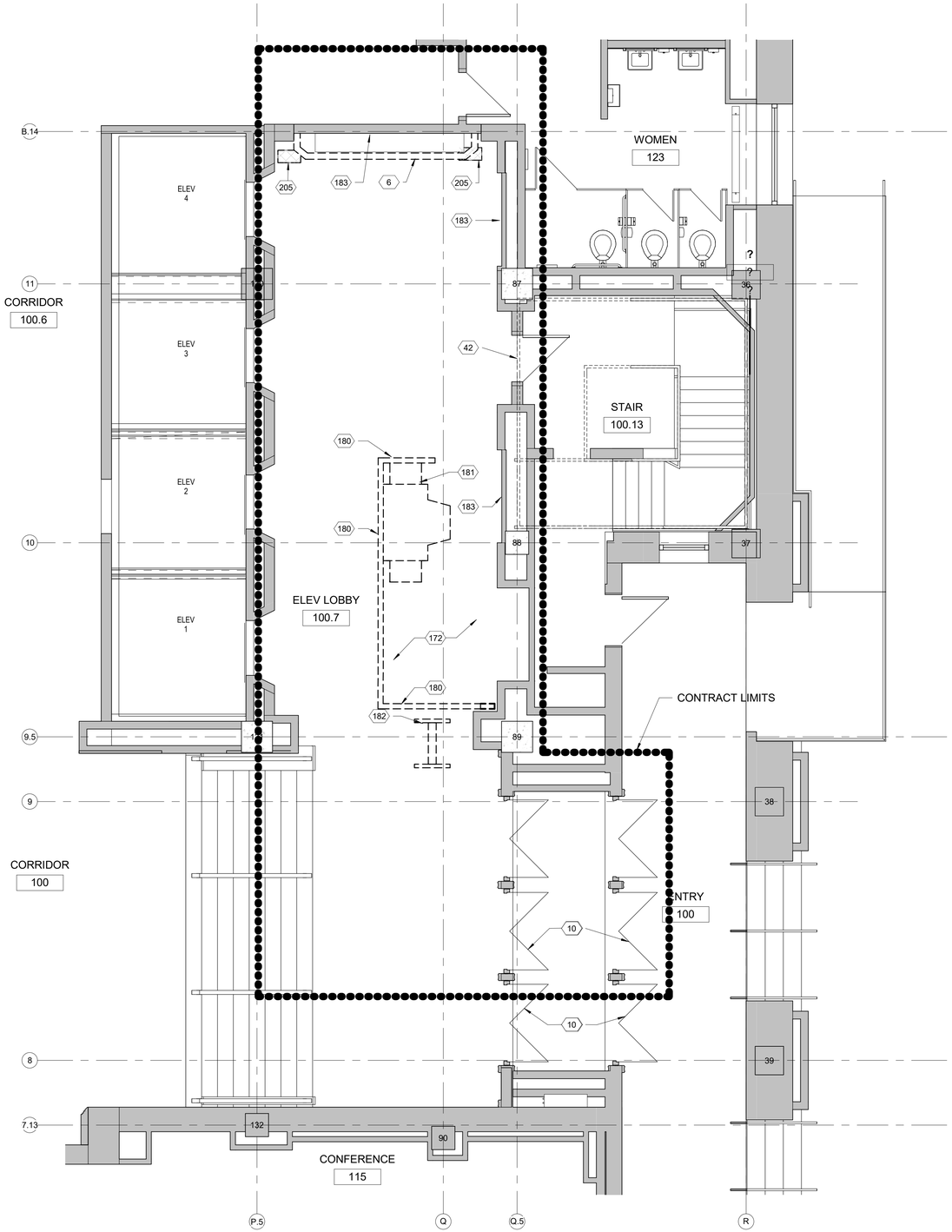

N

1 AD105 FIRST FLOOR FORT ST. ENTRANCE FLOOR PLAN - DEMO
1/4" = 1'-0"

KEYED NOTES

NUMBER	DESCRIPTION
6	REMOVE, SALVAGE AND TURN OVER EXISTING DECORATIVE HISTORIC GRILLE TO OWNER. REMOVE, SALVAGE AND REINSTALL EXISTING GRANITE PANELS.
10	REMOVE EXISTING DOOR PULL HANDLE. INSTALL A PAINTED COVER PLATE TO CONCEAL WHERE THE PULL WAS LOCATED. REUSE HOLE LOCATIONS FOR THE FASTENERS TO THE EXTENT POSSIBLE.
42	EXISTING DOOR AND FRAME TO REMAIN. REMOVE LOCKSET AND TURNOVER TO THE OWNER.
172	REMOVE AND PATCH EXISTING TILE FLOORING AS REQUIRED.
180	REMOVE EXISTING FREESTANDING GLASS PARTITIONS.
181	REMOVE EXISTING X-RAY MACHINE. REMOVED BY THE USMS OR THEIR SUBCONTRACTOR, MC DEAN.
182	REMOVE EXISTING MAGNETOMETER MACHINE. REMOVED BY THE USMS OR THEIR SUBCONTRACTOR, MC DEAN.
183	EXISTING BULLETIN BOARD TO REMAIN.
205	CUT TERRAZZO AND CONCRETE FLOOR STRUCTURE TO ACCOMMODATE NEW MECHANICAL. PROTECT TERRAZZO TO REMAIN DURING THE DEMOLITION AND CONSTRUCTION PROCESS. PERFORM ALL WORK IN ACCORDANCE WITH THE PRESERVATION PLAN TO BE SUBMITTED PER SECTION 01 35 10 - HISTORIC BUILDING TREATMENT PROCEDURES.

GENERAL NOTES

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- REMOVE EXISTING WOOD TOPPING AS REQUIRED FOR NEW WORK.
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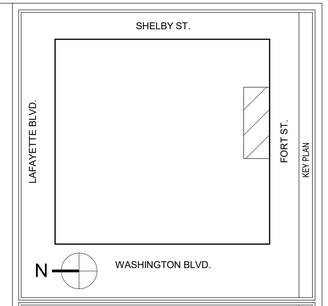

GRAPHIC SCALE

1/4"=1'-0" 0 4' 8'

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

CONSULTANT IDENTIFICATION

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GSA
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John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

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CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	DEMO FLOOR PLAN
SHEET NUMBER AND FILENAME	AD105

SHEET

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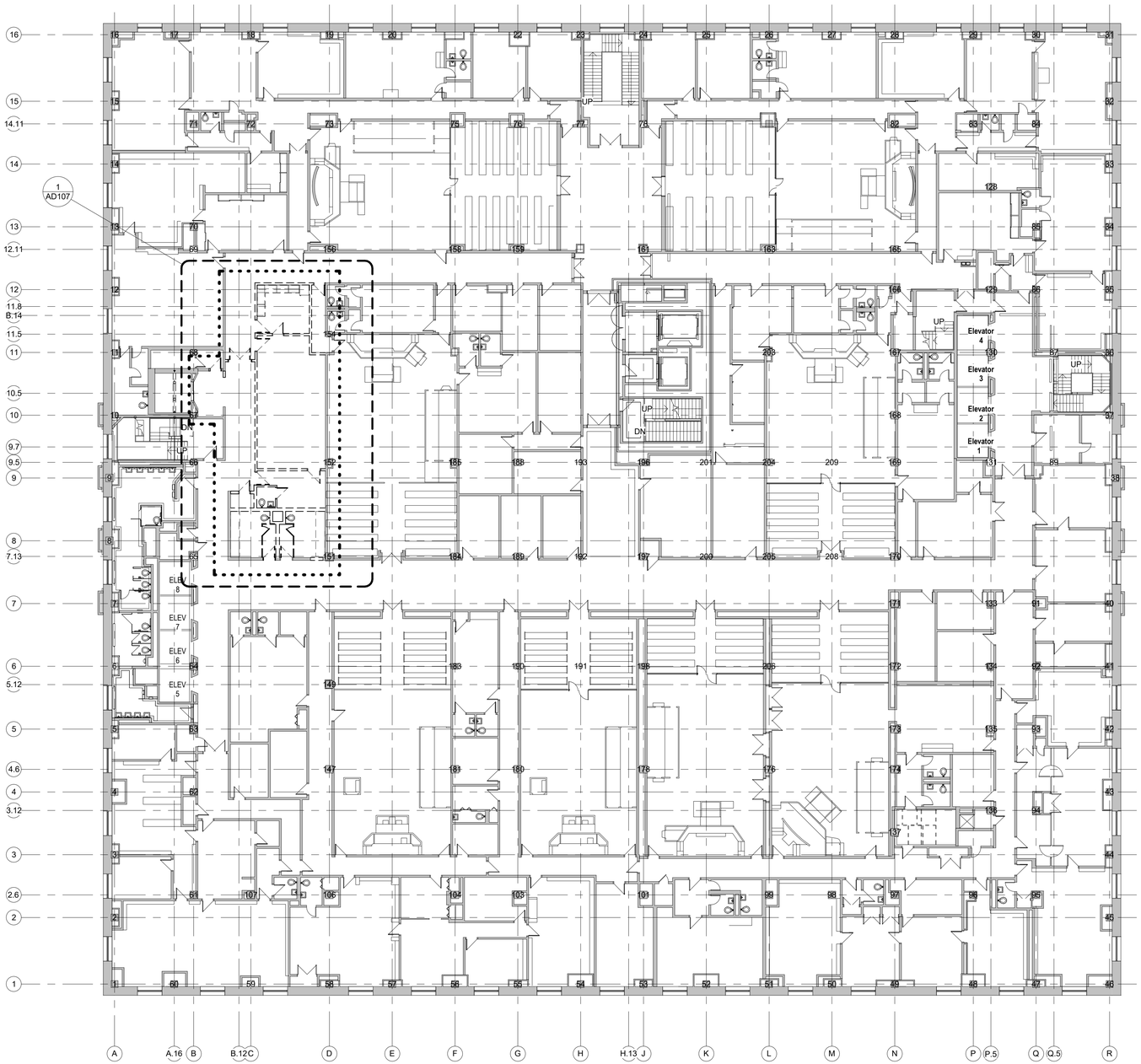

N

1 AD106 SECOND FULL FLOOR PLAN - DEMO
1/16" = 1'-0"

GENERAL NOTES

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2. CONTRACTOR SHALL PROTECT ALL EXISTING CONSTRUCTION AND FINISHES TO REMAIN THROUGHOUT THE PREMISES AND IN ADJACENT AREAS. REFER TO SECTION 01 35 10 HISTORIC TREATMENT PROCEDURES.
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LEGEND

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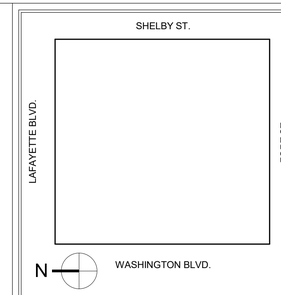
- DOOR AND FRAME TO REMAIN
- DOOR AND FRAME TO BE REMOVED
- REMOVE EXISTING CONCRETE TOPPING OR TOPPING AND SLAB AS REQUIRED FOR NEW WORK. REFER TO STRUCTURAL.
- CMU PARTITION TO BE REMOVED
- REMOVE EXISTING WOOD TOPPING AS REQUIRED FOR NEW WORK.
- REMOVE EXISTING ELEVATOR CAB AND COMPONENTS. REFER TO Q-SHEETS.
- REMOVE CONCRETE SIDEWALK AS REQUIRED FOR NEW WORK. COORDINATE WORK WITH CITY OF DETROIT AND PROJECT PHASING.
- REMOVE EXISTING GRANITE STAIRS AND LANDING AS REQUIRED FOR NEW WORK.
- TEMPORARY SIDEWALK PATH IN STREET AS REQUIRED FOR NEW WORK.

KEY PLAN



GRAPHIC SCALE

1/16"=1'-0" 0 16' 32'

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

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PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	SECOND FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	DEMO FLOOR PLAN
SHEET NUMBER AND FILENAME	AD106

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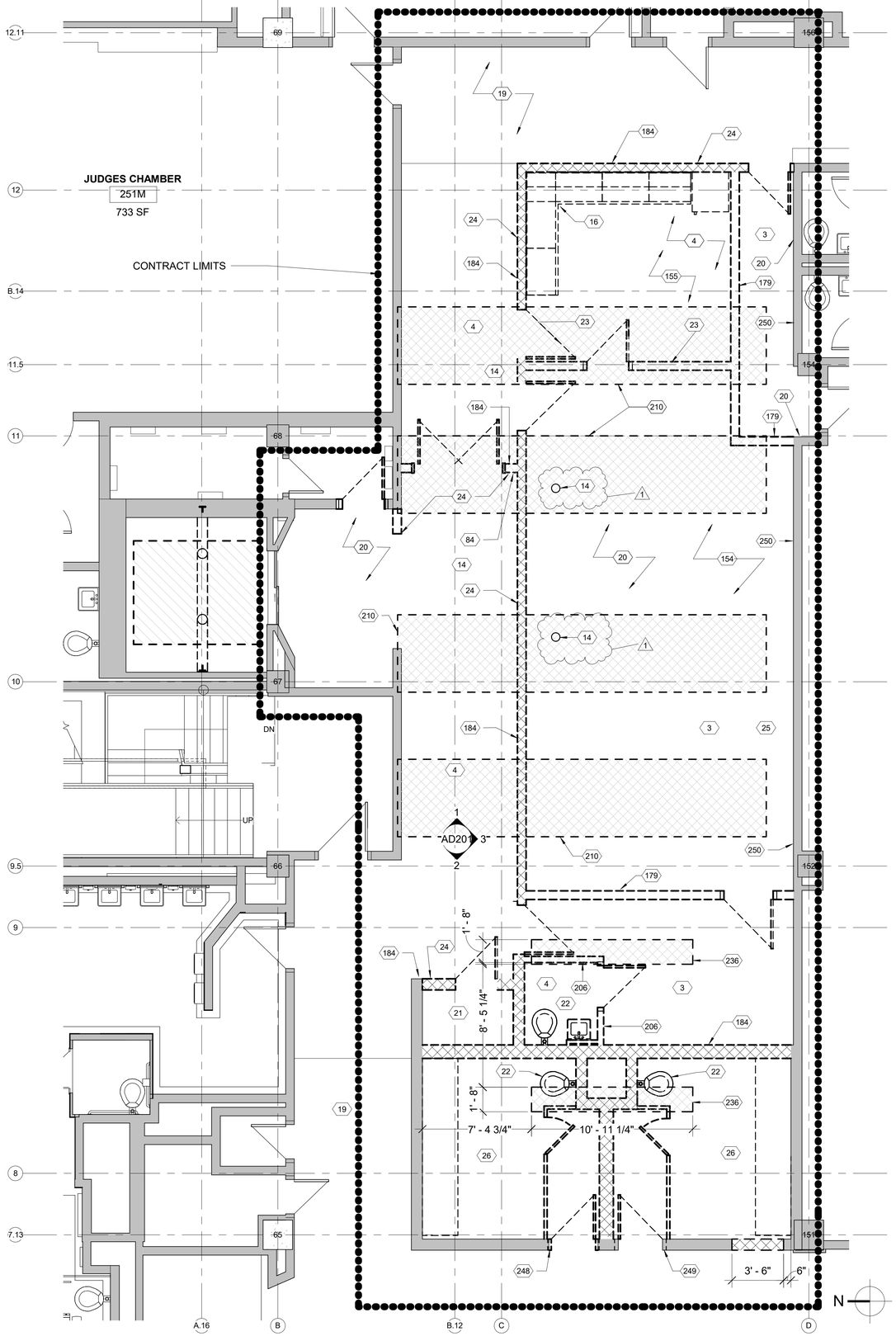

1 AD107 SECOND FLOOR OPTION 1 FLOOR PLAN - DEMO
1/4" = 1'-0"

KEYED NOTES

NUMBER	DESCRIPTION
3	REMOVE EXISTING CARPET TILE, PAD AND WALL BASE. PREPARE SUBFLOOR TO RECEIVE NEW FINISH.
4	REMOVE EXISTING TILE FLOORING AND WALL BASE. PREPARE SUBFLOOR TO RECEIVE NEW FINISH.
14	AS PART OF BASE BID, TEMPORARILY PULL BACK CARPET AND CORE FLOOR OPENINGS FOR NEW FLOOR DRAINS. PLACE METAL PLATE COVER OVER OPENING AND READHERE CARPET. COORDINATE WITH MECHANICAL DRAWINGS.
16	REMOVE EXISTING SHELVING AND/OR MILLWORK, AND ALL ASSOCIATED HARDWARE AND COMPONENTS COMPLETE.
19	TAKE CARE TO PROTECT EXISTING FINISHES TO REMAIN.
20	REMOVE EXISTING WALLCOVERING. PREPARE SUBSTRATE TO RECEIVE NEW FINISH.
21	REMOVE EXISTING ABANDONED ELECTRICAL EQUIPMENT COMPLETE. REMOVE EXISTING PLYWOOD COMPLETE. REFER TO ELECTRICAL DRAWINGS.
22	REMOVE EXISTING PLUMBING FIXTURES AND TOILET ACCESSORIES COMPLETE. REMOVE AND CAP PIPING BACK TO SOURCE. REFER TO PLUMBING DRAWINGS.
23	REMOVE EXISTING WOOD FOLDING PANEL DIVIDER WALL, DOOR AND HARDWARE COMPLETE.
24	REMOVE AND SALVAGE EXISTING GRANITE PANEL FROM WALL AND STONE WALL BASE. STORE IN BASEMENT AS DIRECTED BY GSA. PERFORM ALL WORK IN ACCORDANCE WITH THE PRESERVATION PLAN TO BE SUBMITTED PER SECTION 01 35 10 - HISTORIC BUILDING TREATMENT PROCEDURES.
25	REMOVE EXISTING CHAIR RAIL COMPLETE.
26	REMOVE EXISTING SECURITY DETENTION BENCH, PARTITION, DOOR AND FRAME.
84	REMOVE, SALVAGE AND STORE EXISTING CARD READER FOR REINSTALLATION.
154	TEMPORARILY MOVE LARGE CONFERENCE TABLE, SIDE TABLES AND CHAIRS TO LOCATION ON 2ND FLOOR PER USDC.
155	TEMPORARILY MOVE KITCHEN APPLIANCES TO LOCATION ON 2ND FLOOR PER USDC.
179	REMOVE EXISTING CLAY TILE WALL COMPLETE.
184	REMOVE APPROXIMATELY 16'-3" H EXISTING CMU WITH FURRING WALL.
206	REMOVE EXISTING GYPSUM BOARD AND STUD WALL COMPLETE.
210	REMOVE 5" CONCRETE FLOOR TOPPING AS REQUIRED TO ACCOMMODATE NEW STRUCTURAL REINFORCING. REFER TO STRUCTURAL DRAWINGS.
236	REMOVE 5" CONCRETE FLOOR TOPPING AS REQUIRED TO ACCOMMODATE NEW FLOOR BOXES AND CONDUITS. EXISTING UNDER-FLOOR CONDUITS WILL BE CUT. SOME MAY BE LIVE. CONTRACTOR TO XRAY AREAS NOTED AND SHARE RESULTS WITH GSA AND A/E PRIOR TO CUTTING FLOOR TOPPING. LOCATIONS SHOWN ON PLAN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY CONDITIONS AND LOCATIONS. COORDINATE WITH ALL OTHER TRADES.
248	GROUTED HOLLOW METAL DOOR FRAME AND WOOD JAMB EXTENSIONS TO REMAIN.
249	GROUTED HOLLOW METAL DOOR FRAME TO REMAIN. WOOD JAMB EXTENSIONS TO BE REMOVED.
250	REMOVE (E) WALLCOVERING AND ADHESIVE AND PREPARE WALL AS REQUIRED TO RECEIVE PAINT.

GENERAL NOTES

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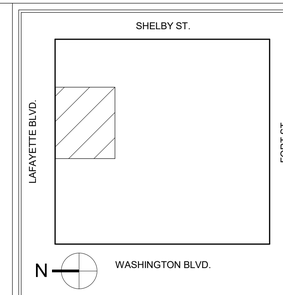
5. THE CONTRACTOR SHALL MAINTAIN EGRESS PATHS FROM THE CONSTRUCTION SITE AT ALL TIMES. PROVIDE TEMPORARY DOORS AND PARTITIONS AS REQUIRED WHERE DOORS TO GENERAL CORRIDORS ARE NOTED TO BE REPLACED.
6. CONTRACTOR TO PROVIDE SIGNAGE, DUST PROTECTION, AND FLOOR PROTECTION AS REQUIRED FROM THE PROJECT AREA THROUGH PUBLIC CORRIDORS AND ELEVATOR LOBBIES TO PROTECT EXISTING FINISHES TO REMAIN. REFER TO SECTION 01 35 10 HISTORIC TREATMENT PROCEDURES.
7. A HAZARDOUS MATERIALS ASSESSMENT OF THE EXISTING BUILDING IN RELATIONSHIP TO THE CONTRACT LIMITS HAS BEEN COMPLETED. REFER TO THE PRE-ALTERATION AND ASSESSMENT REPORT WITHIN THE CONTRACT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. MAINTAIN ALL LIFE-SAFETY RELATED SYSTEMS IN FULLY OPERATIONAL STATE THROUGHOUT ALL DEMOLITION AND CONSTRUCTION WORK, INCLUDING BUT NOT LIMITED TO FIRE ALARM SYSTEM INCLUDING PANELS, SIGNAL/NOTIFICATION DEVICES, FIRE SUPPRESSION SYSTEM, AND EMERGENCY LIGHTING.
9. WORK OUTSIDE THE CONTRACT LIMITS MAY BE REQUIRED FOR TIE-INS AND CONNECTIONS. CONTRACTOR TO WORK OUTSIDE OF THE CONTRACT LIMITS AS REQUIRED TO COMPLETE THE ENTIRE SCOPE OF WORK FOR THE PROJECT.
10. COORDINATE WORK WITH ALL OTHER TRADES.
11. CMC SHALL COORDINATE WITH GSA PROPERTY MANAGEMENT REGARDING STORAGE LOCATIONS FOR ITEMS TO BE REMOVED, SALVAGED AND/OR STORED. CMC SHALL BE RESPONSIBLE FOR THE PHYSICAL MOVE OF ITEMS TO THEIR FINAL LOCATION AND SHALL SUBMIT AN INVENTORY LIST OF ITEMS TO BE RETAINED.
12. DEMOLITION SHALL BE EXECUTED IN ACCORDANCE WITH THE HISTORIC TREATMENT PLAN THAT IS SUBMITTED AND APPROVED BY THE CMC AND THEIR QUALIFIED CONSULTANTS.

LEGEND

- EXISTING PARTITION TO REMAIN
- EXISTING PARTITION TO BE REMOVED (REFER TO KEYED NOTES AND LEGEND)
- DOOR AND FRAME TO REMAIN
- DOOR AND FRAME TO BE REMOVED
- REMOVE EXISTING CONCRETE TOPPING OR TOPPING AND SLAB AS REQUIRED FOR NEW WORK. REFER TO STRUCTURAL.
- CMU PARTITION TO BE REMOVED
- REMOVE EXISTING WOOD TOPPING AS REQUIRED FOR NEW WORK.
- REMOVE EXISTING ELEVATOR CAB AND COMPONENTS. REFER TO Q-SHEETS.
- REMOVE CONCRETE SIDEWALK AS REQUIRED FOR NEW WORK. COORDINATE WORK WITH CITY OF DETROIT AND PROJECT PHASING.
- REMOVE EXISTING GRANITE STAIRS AND LANDING AS REQUIRED FOR NEW WORK.
- TEMPORARY SIDEWALK PATH IN STREET AS REQUIRED FOR NEW WORK.



KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION
1	02/15/2023	100% Revision

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

CONSULTANT IDENTIFICATION

STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047664
LICENSED ARCHITECT

STAMP OR SEAL

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	SECOND FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	DEMO FLOOR PLAN
SHEET NUMBER AND FILENAME	AD107

SHEET

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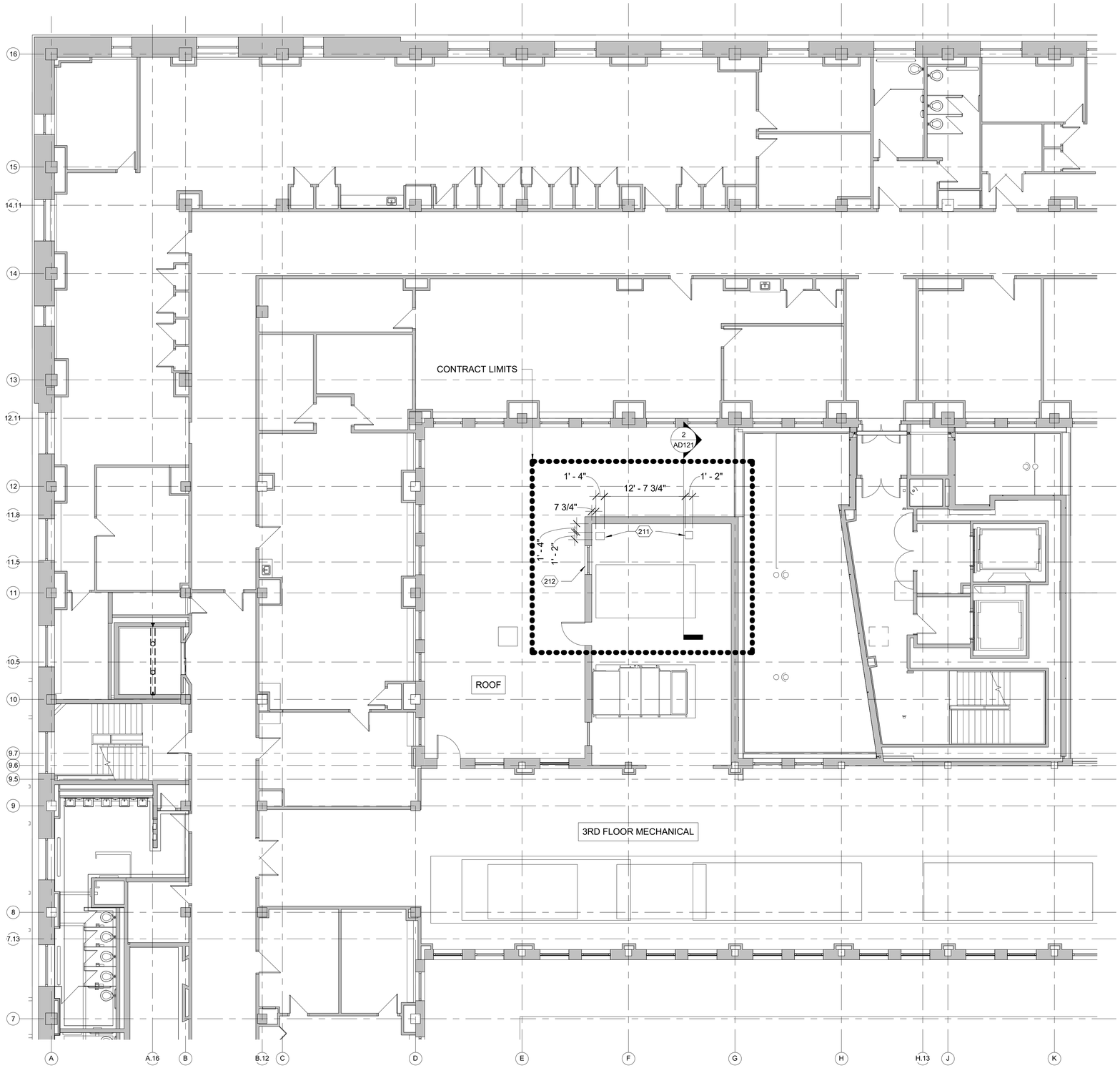


N

1 AD108 THIRD FLOOR - OPTION 1 FLOOR PLAN - DEMO
1/8" = 1'-0"

GENERAL NOTES

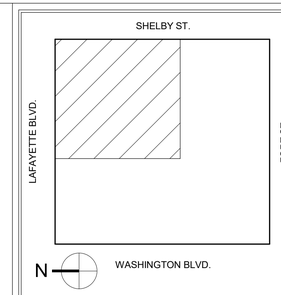
1. CONTRACTOR SHALL COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
2. CONTRACTOR SHALL PROTECT ALL EXISTING CONSTRUCTION AND FINISHES TO REMAIN THROUGHOUT THE PREMISES AND IN ADJACENT AREAS. REFER TO SECTION 01 35 10 HISTORIC TREATMENT PROCEDURES.
3. EXISTING FINISHES ON COLUMNS AND CORE WALLS ARE TO REMAIN U.N.O.
4. DO NOT SCALE DRAWINGS OR MODEL TO OBTAIN REQUIRED DIMENSIONAL INFORMATION. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. ALL EXISTING CONDITIONS ARE TO BE FIELD VERIFIED BY THE G.C. AND ANY DISCREPANCIES BROUGHT TO THE ARCHITECT'S ATTENTION.
5. THE CONTRACTOR SHALL MAINTAIN EGRESS PATHS FROM THE CONSTRUCTION SITE AT ALL TIMES. PROVIDE TEMPORARY DOORS AND PARTITIONS AS REQUIRED WHERE DOORS TO GENERAL CORRIDORS ARE NOTED TO BE REPLACED.
6. CONTRACTOR TO PROVIDE SIGNAGE, DUST PROTECTION, AND FLOOR PROTECTION AS REQUIRED FROM THE PROJECT AREA THROUGH PUBLIC CORRIDORS AND ELEVATOR LOBBIES TO PROTECT EXISTING FINISHES TO REMAIN. REFER TO SECTION 01 35 10 HISTORIC TREATMENT PROCEDURES.
7. A HAZARDOUS MATERIALS ASSESSMENT OF THE EXISTING BUILDING IN RELATIONSHIP TO THE CONTRACT LIMITS HAS BEEN COMPLETED. REFER TO THE PRE- ALTERATION AND ASSESSMENT REPORT WITHIN THE CONTRACT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. MAINTAIN ALL LIFE-SAFETY RELATED SYSTEMS IN FULLY OPERATIONAL STATE THROUGHOUT ALL DEMOLITION AND CONSTRUCTION WORK, INCLUDING BUT NOT LIMITED TO FIRE ALARM SYSTEM INCLUDING PANELS, SIGNAL/NOTIFICATION DEVICES, FIRE SUPPRESSION SYSTEM, AND EMERGENCY LIGHTING.
9. WORK OUTSIDE THE CONTRACT LIMITS MAY BE REQUIRED FOR TIE-INS AND CONNECTIONS. CONTRACTOR TO WORK OUTSIDE OF THE CONTRACT LIMITS AS REQUIRED TO COMPLETE THE ENTIRE SCOPE OF WORK FOR THE PROJECT.
10. COORDINATE WORK WITH ALL OTHER TRADES.
11. CMC SHALL COORDINATE WITH GSA PROPERTY MANAGEMENT REGARDING STORAGE LOCATIONS FOR ITEMS TO BE REMOVED, SALVAGED AND/OR STORED. CMC SHALL BE RESPONSIBLE FOR THE PHYSICAL MOVE OF ITEMS TO THEIR FINAL LOCATION AND SHALL SUBMIT AN INVENTORY LIST OF ITEMS TO BE RETAINED.
12. DEMOLITION SHALL BE EXECUTED IN ACCORDANCE WITH THE HISTORIC TREATMENT PLAN THAT IS SUBMITTED AND APPROVED BY THE CMC AND THEIR QUALIFIED CONSULTANTS.

LEGEND

- EXISTING PARTITION TO REMAIN
- EXISTING PARTITION TO BE REMOVED (REFER TO KEYED NOTES AND LEGEND)
- DOOR AND FRAME TO REMAIN
- DOOR AND FRAME TO BE REMOVED
- REMOVE EXISTING CONCRETE TOPPING OR TOPPING AND SLAB AS REQUIRED FOR NEW WORK. REFER TO STRUCTURAL.
- CMU PARTITION TO BE REMOVED
- REMOVE EXISTING WOOD TOPPING AS REQUIRED FOR NEW WORK.
- REMOVE EXISTING ELEVATOR CAB AND COMPONENTS. REFER TO Q-SHEETS.
- REMOVE CONCRETE SIDEWALK AS REQUIRED FOR NEW WORK. COORDINATE WORK WITH CITY OF DETROIT AND PROJECT PHASING.
- REMOVE EXISTING GRANITE STAIRS AND LANDING AS REQUIRED FOR NEW WORK.
- TEMPORARY SIDEWALK PATH IN STREET AS REQUIRED FOR NEW WORK.

KEYED NOTES

NUMBER	DESCRIPTION
211	PRIOR CUTTING OPENINGS IN FLOOR AND ORDERING / FABRICATING MECHANICAL COMPONENTS, COORDINATE WITH EXISTING CONCRETE JOISTS TO AVOID INTERFERENCE.
212	LOWER TOP SASH EXISTING HISTORIC WINDOW TO ACCOMMODATE NEW LOUVER. MODIFY EXISTING INTERIOR WIRE MESH SECURITY SCREEN AS REQUIRED FOR NEW WORK. REFER TO NEW WORK AND MECHANICAL DRAWINGS.



KEY PLAN

1/8"=1'-0" 0 8' 16'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

CONSULTANT IDENTIFICATION

STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047664
LICENSED ARCHITECT

STAMP OR SEAL

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General Services Administration
Public Buildings Service
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Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

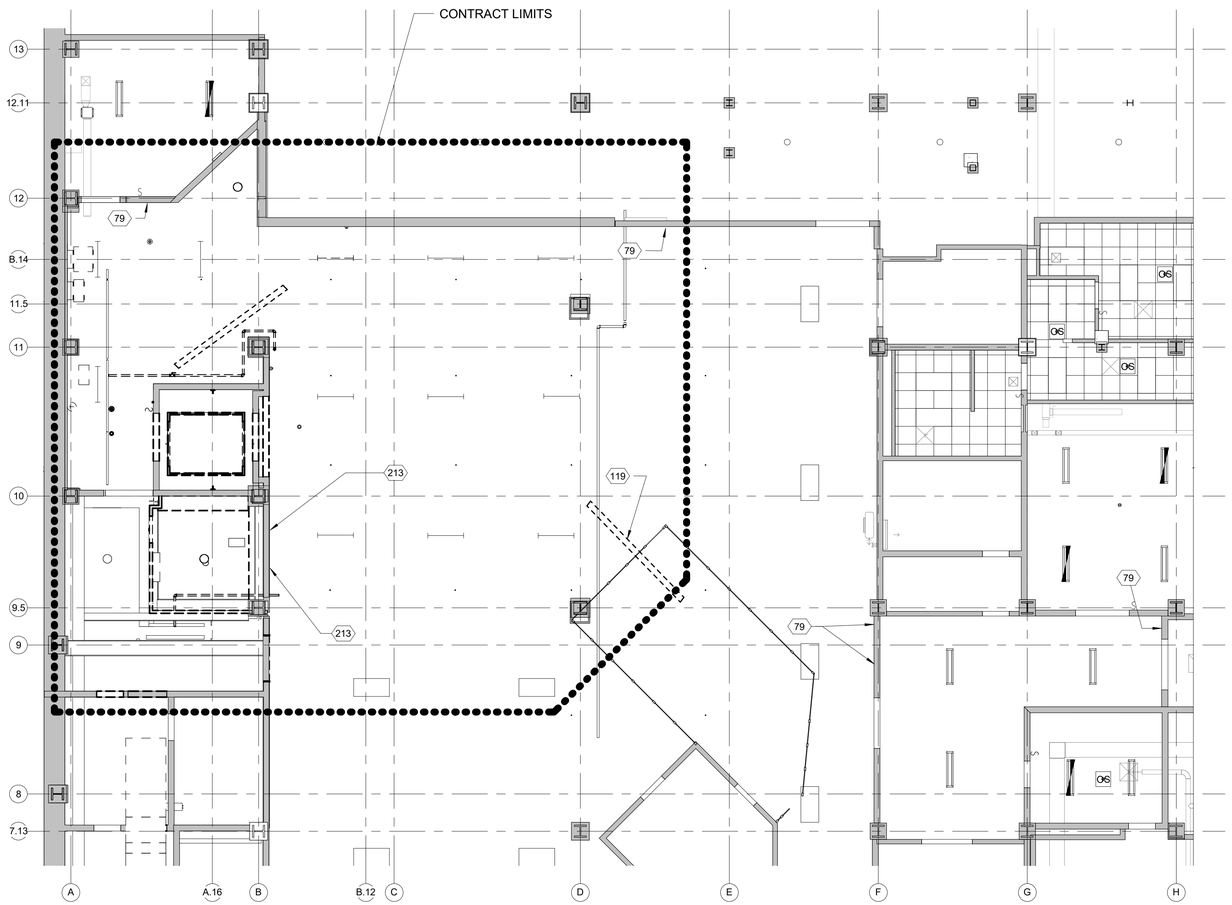
DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	THIRD FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	DEMO PLAN - OPTION 1
SHEET NUMBER AND FILENAME	AD108

SHEET

PROPERTY OF THE UNITED STATES GOVERNMENT. This is controlled unclassified information. Do not remove the CUI marking. Properly destroy or return documents when no longer needed.

KEYED NOTES

NUMBER	DESCRIPTION
79	CUT WALL TO ACCOMMODATE NEW MECHANICAL/PIPING. REFER TO MECHANICAL AND PLUMBING DRAWINGS.
119	REMOVE EXISTING HOIST BEAMS COMPLETE.
213	REUSE EXISTING WALL OPENING TO ACCOMMODATE NEW PIPING. REFER TO PLUMBING DRAWINGS.



N

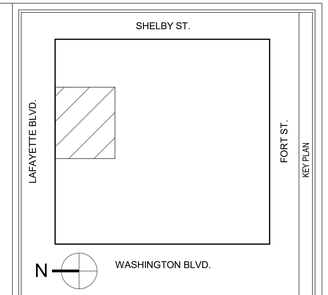
1 AD115 BASEMENT VEHICLE SALLYPORT REFLECTED CEILING PLAN - DEMO
1/8" = 1'-0"

GENERAL NOTES

1. CONTRACTOR TO COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
2. CONTRACTOR SHALL PROTECT ALL EXISTING CONSTRUCTION AND FINISHES TO REMAIN WITHIN THE PREMISES AND IN ADJACENT AREAS.
3. REMOVE EXISTING CEILING MOUNTED EQUIPMENT (LIGHT FIXTURES, DIFFUSERS, SPEAKERS, FIRE ALARMS, ETC.) IN CEILING SYSTEMS INDICATED TO BE REMOVED, U.N.O. PROPERLY STORE EQUIPMENT FOR REINSTALLATION.
4. CEILING MOUNTED LIFE SAFETY EQUIPMENT (SMOKE DETECTORS, ALARMS, SPRINKLERS, EMERGENCY LIGHTING, ETC.) SHALL BE ADDRESSED PER THE LIFE SAFETY DRAWINGS.
5. HISTORIC PLASTER CEILING IS PRESUMED TO BE PRESENT IN AREAS OF WORK UNO. TYP PLASTER CEILING IS 19'-0" A.F.F. (1ST FLOOR) AND 16'- 4" (2ND FLOOR).
6. IF THERE IS NO CEILING NOTED BY EITHER LEGEND OR KEYNOTE, ASSUME ROOM IS OPEN TO STRUCTURE ABOVE.
7. WHERE PARTIAL REMOVAL OF EXISTING CEILING GRID OCCURS, REMOVE GRID TO NEAREST COMPLETE TILE. STORE TILE AND GRID FOR REINSTALLATION, U.N.O. REPLACE ANY DAMAGED TILE AND/OR GRID TO MATCH EXISTING. ADVISE THE ARCHITECT IF A GREATER SCOPE OF DEMOLITION IS REQUIRED.
8. A HAZARDOUS MATERIALS ASSESSMENT OF THE EXISTING BUILDING IN RELATIONSHIP TO THE CONTRACT LIMITS HAS BEEN COMPLETED. REFER TO THE PRE-ALTERATION AND ASSESSMENT REPORT WITHIN THE CONTRACT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. WHERE EXISTING FIXTURES, FITTINGS, DEVICES, ETC. ARE SHOWN OR NOTED TO BE REMOVED FROM EXISTING CONSTRUCTION, OR WHERE EXPOSED BY DEMOLITION OR BY THE REMOVAL OF FURNITURE BY OTHERS, REMOVE ALL CONDUIT PIPING, CABLING, ETC. BACK TO THE POINT WHERE IT WILL NOT BE EXPOSED IN THE FINISHED SPACE, U.N.O. REMOVE ALL ABANDONED WIRING TO NEAREST JUNCTION BOX OUTSIDE OF THE CONTRACT LIMITS AREA.
10. DEMOLITION SHALL BE EXECUTED IN ACCORDANCE WITH THE HISTORIC TREATMENT PLAN THAT IS SUBMITTED AND APPROVED BY THE CMC AND THEIR QUALIFIED CONSULTANTS.

LEGEND

- EXISTING WALL TO REMAIN
- EXISTING PARTITION TO BE REMOVED
- EXISTING CEILING GRID TO BE REMOVED
- EXISTING PLASTER/GYPSUM CEILING TO BE REMOVED
- EXISTING CEILING GRID TO REMAIN
- EXISTING PLASTER/GYPSUM CEILING TO REMAIN
- 2' X 4' EXISTING LIGHTING FIXTURE
- 4' EXISTING LIGHTING FIXTURE
- 2' X 4' EXISTING EMERGENCY LIGHTING FIXTURE
- EXISTING HEAT DETECTOR
- C EXISTING COMBINATION SPEAKER/STROBE APPLIANCE
- EXISTING SPEAKER ONLY
- EXISTING SUPPLY DIFFUSER
- EXISTING UPRIGHT SPRINKLER
- OS EXISTING OCCUPANCY SENSOR



KEY PLAN

1/8"=1'-0" 0 8' 16'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

CONSULTANT IDENTIFICATION

STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047664
LICENSED ARCHITECT

STAMP OR SEAL

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	BASEMENT FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	DEMO RCP
SHEET NUMBER AND FILENAME	AD115

SHEET

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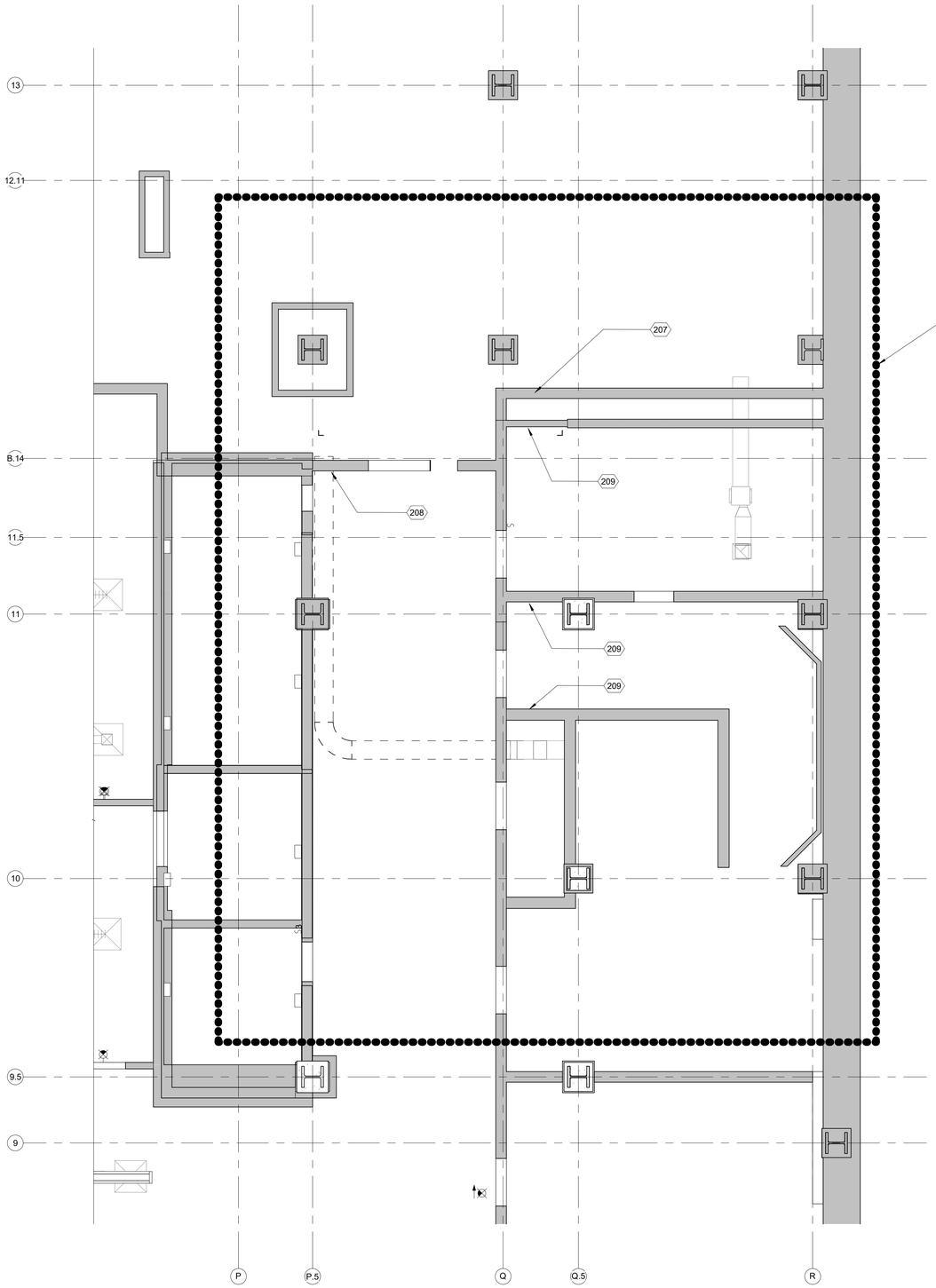


N

1 AD116 BASEMENT FORT STREET REFLECTED CEILING PLAN - DEMO
1/4" = 1'-0"

KEYED NOTES

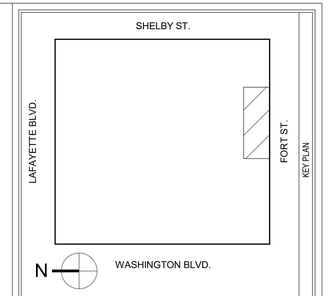
NUMBER	DESCRIPTION
207	CUT DOUBLE WYTHE BRICK WALL TO ACCOMMODATE NEW DUCTWORK/PIPING. PROVIDE PENETRATION FIRESTOPPING AS REQUIRED. REFER TO PLUMBING AND MECHANICAL DRAWINGS.
208	REUSE EXISTING WALL OPENING TO ACCOMMODATE NEW DUCTWORK. REFER TO MECHANICAL DRAWINGS.
209	CUT GYPSUM BOARD PARTITION AS REQUIRED FOR NEW DUCTWORK/PIPING. PROVIDE PENETRATION FIRESTOPPING AS REQUIRED. REFER TO PLUMBING AND MECHANICAL DRAWINGS.

GENERAL NOTES

1. CONTRACTOR TO COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
2. CONTRACTOR SHALL PROTECT ALL EXISTING CONSTRUCTION AND FINISHES TO REMAIN WITHIN THE PREMISES AND IN ADJACENT AREAS.
3. REMOVE EXISTING CEILING MOUNTED EQUIPMENT (LIGHT FIXTURES, DIFFUSERS, SPEAKERS, FIRE ALARMS, ETC.) IN CEILING SYSTEMS INDICATED TO BE REMOVED, U.N.O. PROPERLY STORE EQUIPMENT FOR REINSTALLATION.
4. CEILING MOUNTED LIFE SAFETY EQUIPMENT (SMOKE DETECTORS, ALARMS, SPRINKLERS, EMERGENCY LIGHTING, ETC.) SHALL BE ADDRESSED PER THE LIFE SAFETY DRAWINGS.
5. HISTORIC PLASTER CEILING IS PRESUMED TO BE PRESENT IN AREAS OF WORK UNO. TYP PLASTER CEILING IS 19'-0" A.F.F. (1ST FLOOR) AND 16'- 4" (2ND FLOOR).
6. IF THERE IS NO CEILING NOTED BY EITHER LEGEND OR KEYNOTE, ASSUME ROOM IS OPEN TO STRUCTURE ABOVE.
7. WHERE PARTIAL REMOVAL OF EXISTING CEILING GRID OCCURS, REMOVE GRID TO NEAREST COMPLETE TILE. STORE TILE AND GRID FOR REINSTALLATION, U.N.O. REPLACE ANY DAMAGED TILE AND/OR GRID TO MATCH EXISTING. ADVISE THE ARCHITECT IF A GREATER SCOPE OF DEMOLITION IS REQUIRED.
8. A HAZARDOUS MATERIALS ASSESSMENT OF THE EXISTING BUILDING IN RELATIONSHIP TO THE CONTRACT LIMITS HAS BEEN COMPLETED. REFER TO THE PRE-ALTERATION AND ASSESSMENT REPORT WITHIN THE CONTRACT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. WHERE EXISTING FIXTURES, FITTINGS, DEVICES, ETC. ARE SHOWN OR NOTED TO BE REMOVED FROM EXISTING CONSTRUCTION, OR WHERE EXPOSED BY DEMOLITION OR BY THE REMOVAL OF FURNITURE BY OTHERS, REMOVE ALL CONDUIT PIPING, CABLING, ETC. BACK TO THE POINT WHERE IT WILL NOT BE EXPOSED IN THE FINISHED SPACE, U.N.O. REMOVE ALL ABANDONED WIRING TO NEAREST JUNCTION BOX OUTSIDE OF THE CONTRACT LIMITS AREA.
10. DEMOLITION SHALL BE EXECUTED IN ACCORDANCE WITH THE HISTORIC TREATMENT PLAN THAT IS SUBMITTED AND APPROVED BY THE CMC AND THEIR QUALIFIED CONSULTANTS.

LEGEND

- EXISTING WALL TO REMAIN
- EXISTING PARTITION TO BE REMOVED
- EXISTING CEILING GRID TO BE REMOVED
- EXISTING PLASTER/GYPSUM CEILING TO BE REMOVED
- EXISTING CEILING GRID TO REMAIN
- EXISTING PLASTER/GYPSUM CEILING TO REMAIN
- 2' X 4' EXISTING LIGHTING FIXTURE
- 4' EXISTING LIGHTING FIXTURE
- 2' X 4' EXISTING EMERGENCY LIGHTING FIXTURE
- EXISTING HEAT DETECTOR
- C EXISTING COMBINATION SPEAKER/STROBE APPLIANCE
- EXISTING SPEAKER ONLY
- EXISTING SUPPLY DIFFUSER
- EXISTING UPRIGHT SPRINKLER
- OS EXISTING OCCUPANCY SENSOR



KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
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BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	BASEMENT FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	DEMO RCP
SHEET NUMBER AND FILENAME	AD116

SHEET

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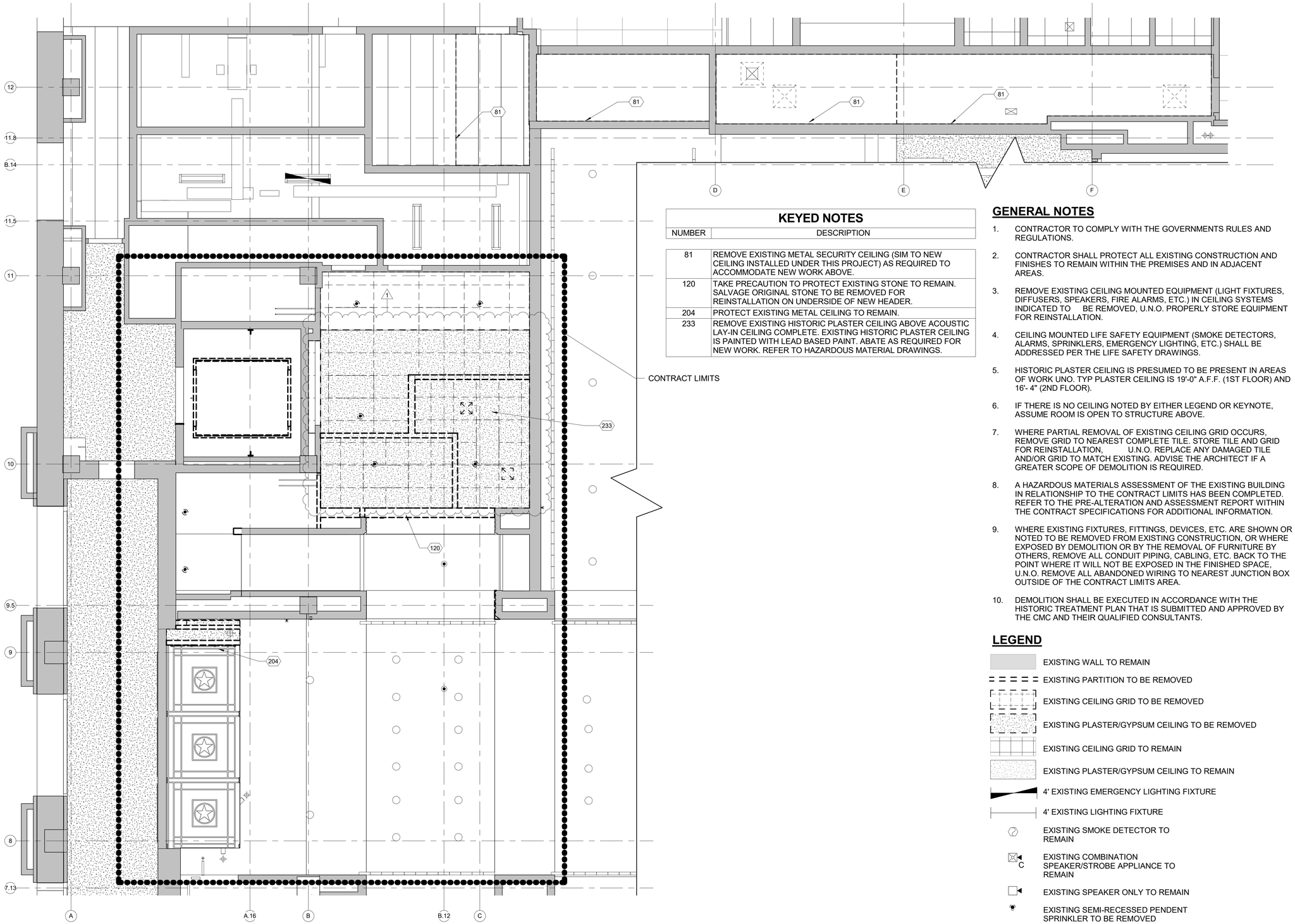


N

1 AD117 FIRST FLOOR LAFAYETTE BLVD. ENTRANCE REFLECTED CEILING PLAN - DEMO
1/4" = 1'-0"

KEYED NOTES

NUMBER	DESCRIPTION
81	REMOVE EXISTING METAL SECURITY CEILING (SIM TO NEW CEILING INSTALLED UNDER THIS PROJECT) AS REQUIRED TO ACCOMMODATE NEW WORK ABOVE.
120	TAKE PRECAUTION TO PROTECT EXISTING STONE TO REMAIN. SALVAGE ORIGINAL STONE TO BE REMOVED FOR REINSTALLATION ON UNDERSIDE OF NEW HEADER.
204	PROTECT EXISTING METAL CEILING TO REMAIN.
233	REMOVE EXISTING HISTORIC PLASTER CEILING ABOVE ACOUSTIC LAY-IN CEILING COMPLETE. EXISTING HISTORIC PLASTER CEILING IS PAINTED WITH LEAD BASED PAINT. ABATE AS REQUIRED FOR NEW WORK. REFER TO HAZARDOUS MATERIAL DRAWINGS.

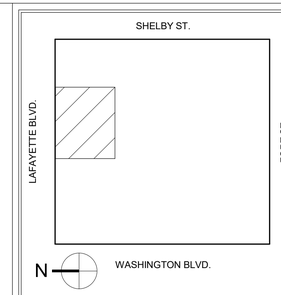
GENERAL NOTES

1. CONTRACTOR TO COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
2. CONTRACTOR SHALL PROTECT ALL EXISTING CONSTRUCTION AND FINISHES TO REMAIN WITHIN THE PREMISES AND IN ADJACENT AREAS.
3. REMOVE EXISTING CEILING MOUNTED EQUIPMENT (LIGHT FIXTURES, DIFFUSERS, SPEAKERS, FIRE ALARMS, ETC.) IN CEILING SYSTEMS INDICATED TO BE REMOVED, U.N.O. PROPERLY STORE EQUIPMENT FOR REINSTALLATION.
4. CEILING MOUNTED LIFE SAFETY EQUIPMENT (SMOKE DETECTORS, ALARMS, SPRINKLERS, EMERGENCY LIGHTING, ETC.) SHALL BE ADDRESSED PER THE LIFE SAFETY DRAWINGS.
5. HISTORIC PLASTER CEILING IS PRESUMED TO BE PRESENT IN AREAS OF WORK UNO. TYP PLASTER CEILING IS 19'-0" A.F.F. (1ST FLOOR) AND 16'- 4" (2ND FLOOR).
6. IF THERE IS NO CEILING NOTED BY EITHER LEGEND OR KEYNOTE, ASSUME ROOM IS OPEN TO STRUCTURE ABOVE.
7. WHERE PARTIAL REMOVAL OF EXISTING CEILING GRID OCCURS, REMOVE GRID TO NEAREST COMPLETE TILE. STORE TILE AND GRID FOR REINSTALLATION, U.N.O. REPLACE ANY DAMAGED TILE AND/OR GRID TO MATCH EXISTING. ADVISE THE ARCHITECT IF A GREATER SCOPE OF DEMOLITION IS REQUIRED.
8. A HAZARDOUS MATERIALS ASSESSMENT OF THE EXISTING BUILDING IN RELATIONSHIP TO THE CONTRACT LIMITS HAS BEEN COMPLETED. REFER TO THE PRE-ALTERATION AND ASSESSMENT REPORT WITHIN THE CONTRACT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. WHERE EXISTING FIXTURES, FITTINGS, DEVICES, ETC. ARE SHOWN OR NOTED TO BE REMOVED FROM EXISTING CONSTRUCTION, OR WHERE EXPOSED BY DEMOLITION OR BY THE REMOVAL OF FURNITURE BY OTHERS, REMOVE ALL CONDUIT PIPING, CABLING, ETC. BACK TO THE POINT WHERE IT WILL NOT BE EXPOSED IN THE FINISHED SPACE, U.N.O. REMOVE ALL ABANDONED WIRING TO NEAREST JUNCTION BOX OUTSIDE OF THE CONTRACT LIMITS AREA.
10. DEMOLITION SHALL BE EXECUTED IN ACCORDANCE WITH THE HISTORIC TREATMENT PLAN THAT IS SUBMITTED AND APPROVED BY THE CMC AND THEIR QUALIFIED CONSULTANTS.

LEGEND

- EXISTING WALL TO REMAIN
- EXISTING PARTITION TO BE REMOVED
- EXISTING CEILING GRID TO BE REMOVED
- EXISTING PLASTER/GYPSUM CEILING TO BE REMOVED
- EXISTING CEILING GRID TO REMAIN
- EXISTING PLASTER/GYPSUM CEILING TO REMAIN
- 4' EXISTING EMERGENCY LIGHTING FIXTURE
- 4' EXISTING LIGHTING FIXTURE
- EXISTING SMOKE DETECTOR TO REMAIN
- C EXISTING COMBINATION SPEAKER/STROBE APPLIANCE TO REMAIN
- EXISTING SPEAKER ONLY TO REMAIN
- EXISTING SEMI-RECESSED PENDENT SPRINKLER TO BE REMOVED
- EXISTING SEMI-RECESSED PENDENT SPRINKLER TO REMAIN
- EXISTING UPRIGHT SPRINKLER TO REMAIN
- EXISTING SUPPLY DIFFUSER TO BE REMOVED
- EXISTING RETURN DIFFUSER TO BE REMOVED

KEY PLAN



GRAPHIC SCALE

1/4"=1'-0" 0 4' 8'

REVISION BLOCK

MARK	DATE	DESCRIPTION
1	02/15/2023	100% Revision

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

STAMP OR SEAL

STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047654
LICENSED ARCHITECT

OWNER IDENTIFICATION

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	DEMO RCP
SHEET NUMBER AND FILENAME	AD117

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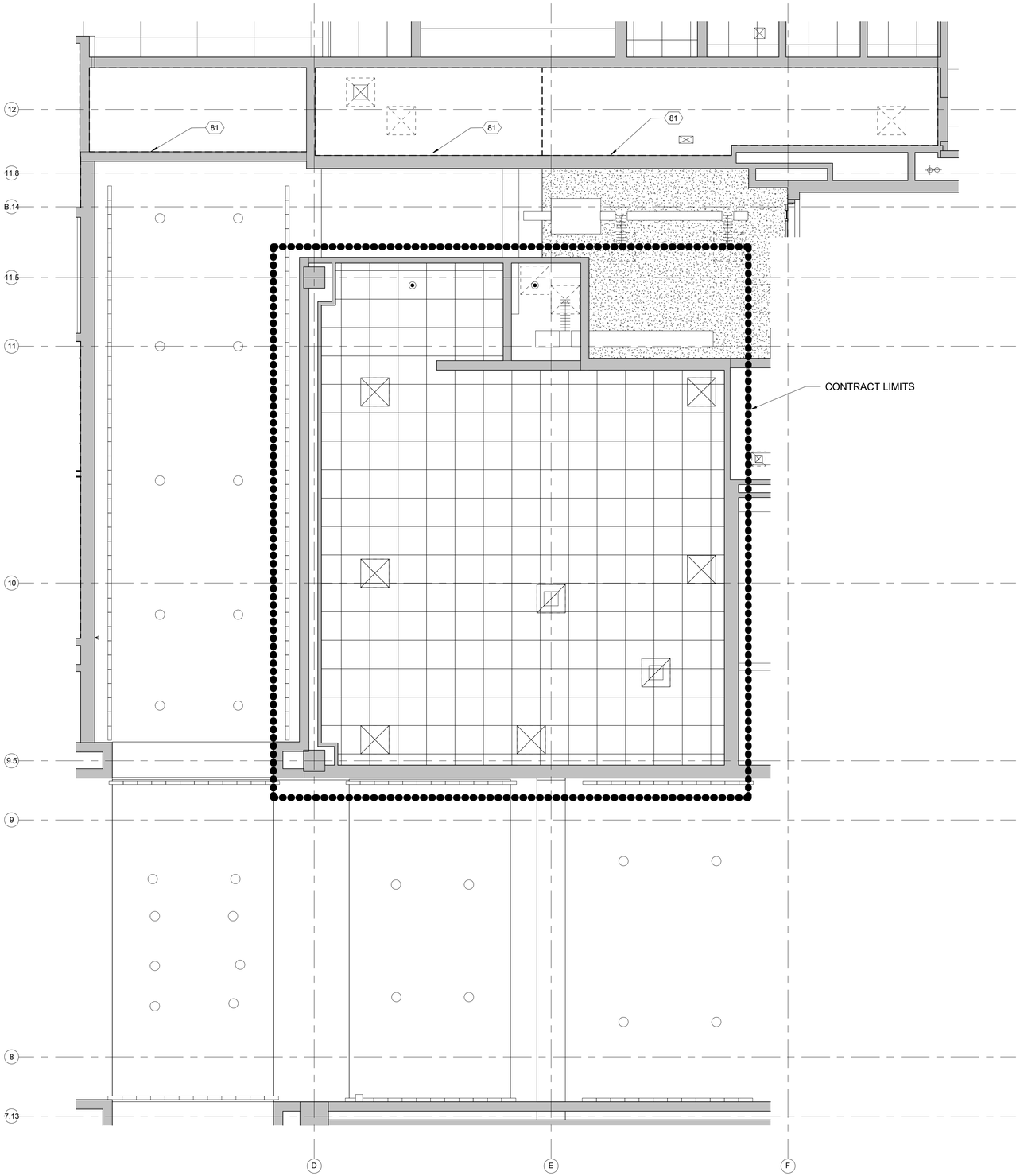

N

1 AD118 FIRST FLOOR COMMAND AND CONTROL CENTER REFLECTED CEILING PLAN - DEMO
1/4" = 1'-0"

GENERAL NOTES

1. CONTRACTOR TO COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
2. CONTRACTOR SHALL PROTECT ALL EXISTING CONSTRUCTION AND FINISHES TO REMAIN WITHIN THE PREMISES AND IN ADJACENT AREAS.
3. REMOVE EXISTING CEILING MOUNTED EQUIPMENT (LIGHT FIXTURES, DIFFUSERS, SPEAKERS, FIRE ALARMS, ETC.) IN CEILING SYSTEMS INDICATED TO BE REMOVED, U.N.O. PROPERLY STORE EQUIPMENT FOR REINSTALLATION.
4. CEILING MOUNTED LIFE SAFETY EQUIPMENT (SMOKE DETECTORS, ALARMS, SPRINKLERS, EMERGENCY LIGHTING, ETC.) SHALL BE ADDRESSED PER THE LIFE SAFETY DRAWINGS.
5. HISTORIC PLASTER CEILING IS PRESUMED TO BE PRESENT IN AREAS OF WORK UNO. TYP PLASTER CEILING IS 19'-0" A.F.F. (1ST FLOOR) AND 16'- 4" (2ND FLOOR).
6. IF THERE IS NO CEILING NOTED BY EITHER LEGEND OR KEYNOTE, ASSUME ROOM IS OPEN TO STRUCTURE ABOVE.
7. WHERE PARTIAL REMOVAL OF EXISTING CEILING GRID OCCURS, REMOVE GRID TO NEAREST COMPLETE TILE. STORE TILE AND GRID FOR REINSTALLATION, U.N.O. REPLACE ANY DAMAGED TILE AND/OR GRID TO MATCH EXISTING. ADVISE THE ARCHITECT IF A GREATER SCOPE OF DEMOLITION IS REQUIRED.
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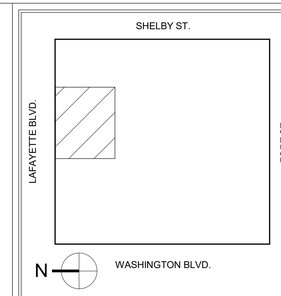
- EXISTING UPRIGHT SPRINKLER TO REMAIN
- EXISTING SUPPLY DIFFUSER TO BE REMOVED
- EXISTING RETURN DIFFUSER TO BE REMOVED

KEYED NOTES

NUMBER	DESCRIPTION
81	REMOVE EXISTING METAL SECURITY CEILING (SIM TO NEW CEILING INSTALLED UNDER THIS PROJECT) AS REQUIRED TO ACCOMMODATE NEW WORK ABOVE.



KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

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CONSULTANT IDENTIFICATION

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SCOTT W. GOODSELL
ARCHITECT
No. 1301047664
LICENSED ARCHITECT

STAMP OR SEAL

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Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

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BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	DEMO RCP
SHEET NUMBER AND FILENAME	AD118

SHEET

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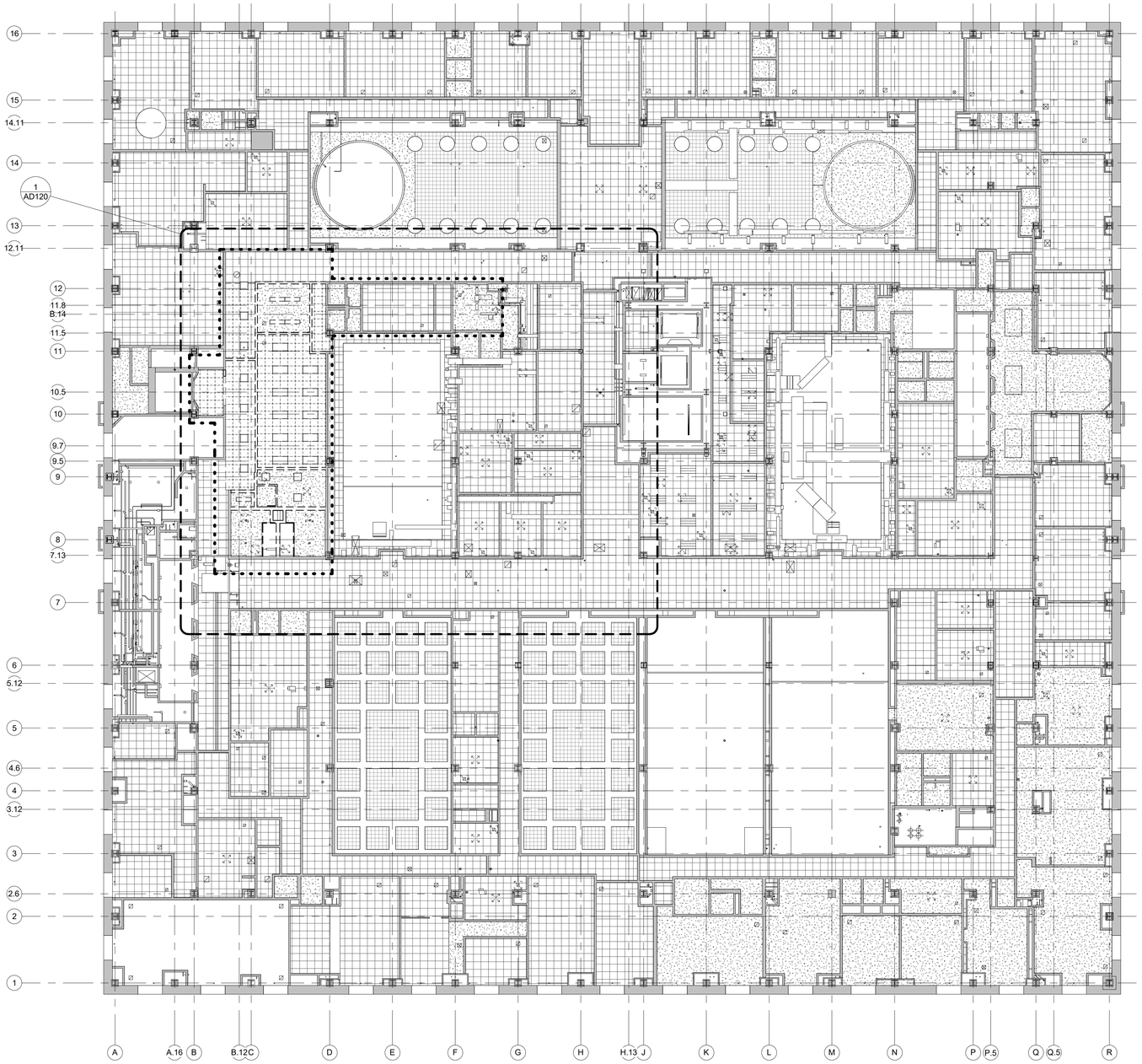

N

1 AD119 SECOND FLOOR OPTION 1 REFLECTED CEILING PLAN - DEMO
1/16" = 1'-0"

GENERAL NOTES

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6. IF THERE IS NO CEILING NOTED BY EITHER LEGEND OR KEYNOTE, ASSUME ROOM IS OPEN TO STRUCTURE ABOVE.
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LEGEND

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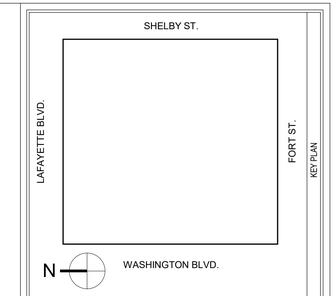
- EXISTING PARTITION TO BE REMOVED
- EXISTING CEILING GRID TO BE REMOVED
- EXISTING PLASTER/GYPSUM CEILING TO BE REMOVED
- EXISTING CEILING GRID TO REMAIN
- EXISTING PLASTER/GYPSUM CEILING TO REMAIN
- 2' X 4' EXISTING LIGHTING FIXTURE
- 2' X 4' EXISTING LIGHTING FIXTURE TO BE REMOVED
- 4' EXISTING LIGHTING FIXTURE TO BE REMOVED



KEY PLAN

1/16"=1'-0" 0 16' 32'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

CONSULTANT IDENTIFICATION

STATE OF MICHIGAN
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ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	SECOND FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	DEMO RCP
SHEET NUMBER AND FILENAME	AD119

SHEET

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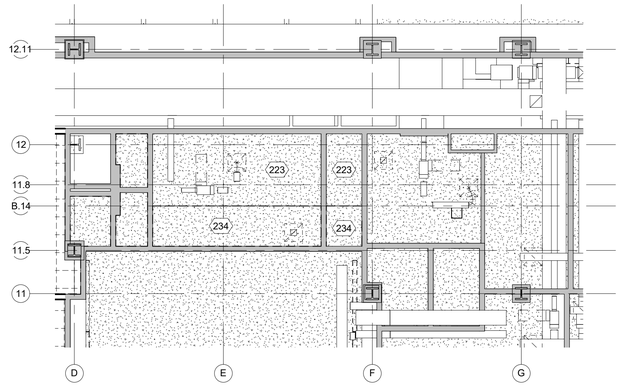
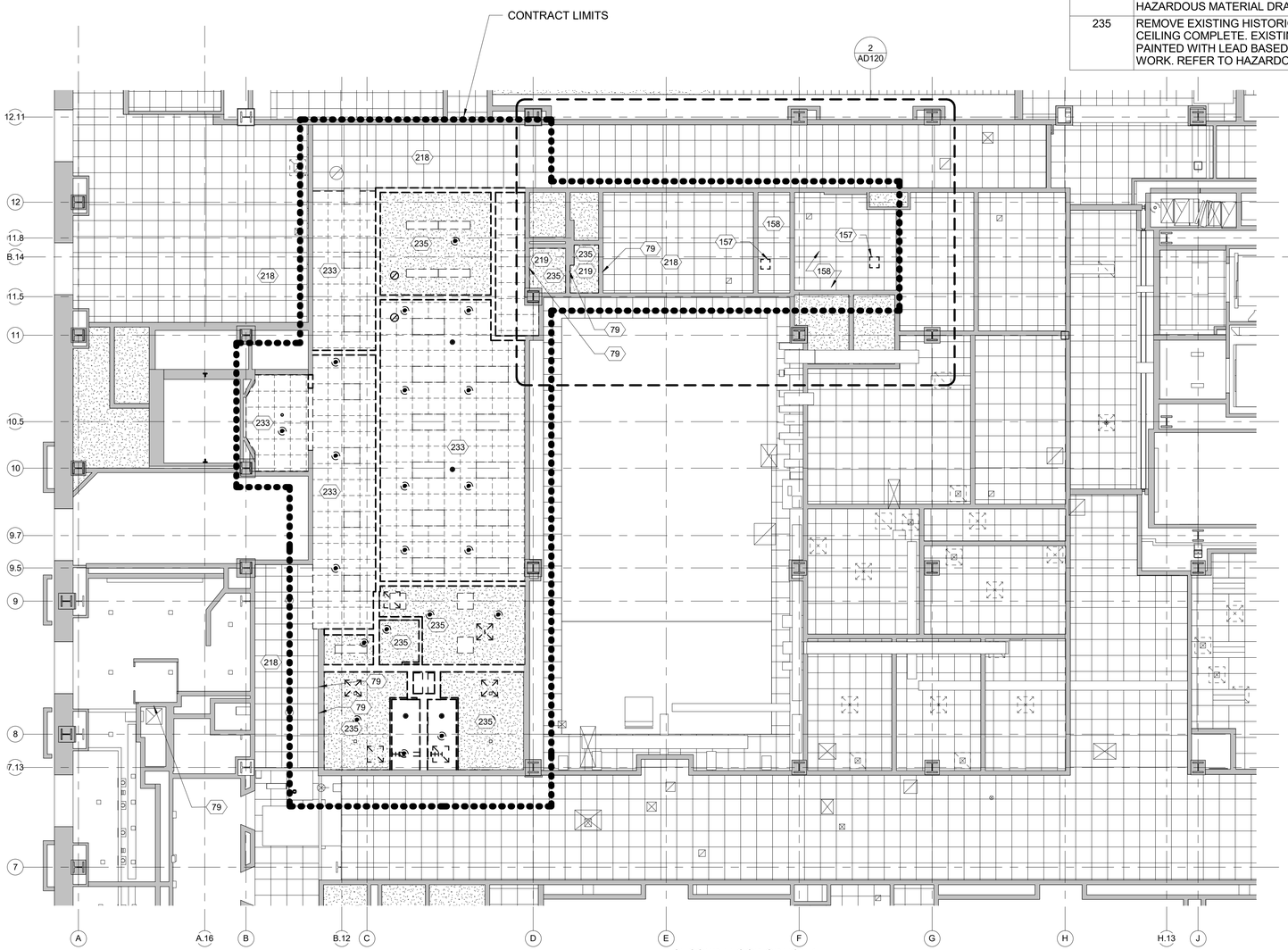


2 AD120 SECOND FLOOR OPTION 1 ENLARGED PLASTER CEILING PLAN - DEMO
1/8" = 1'-0"



N 1 AD120 SECOND FLOOR OPTION 1 REFLECTED CEILING PLAN - DEMO
1/8" = 1'-0"

KEYED NOTES

NUMBER	DESCRIPTION
79	CUT WALL TO ACCOMMODATE NEW MECHANICAL/PIPING. REFER TO MECHANICAL AND PLUMBING DRAWINGS.
157	CUT NEW OPENING IN CONCRETE ROOF DECK OF 3RD FLOOR MECHANICAL RM TO ACCEPT NEW EXHAUST DUCT. FIRE CAULK. EXISTING ROOF IS BALLASTED B.U.R. INSTALL ON NEW ROOF CURB AND FLASH.
158	REMOVE AND REINSTALL LAY-IN CEILING TO ACCOMMODATE LIFT FOR NEW EXHAUST DUCTWORK THROUGH 3RD FLOOR.
218	REMOVE, SALVAGE AND REINSTALL EXISTING ACOUSTIC CEILING TILE AS REQUIRED FOR NEW WORK. PROVIDE NEW ACCESS PANELS IN CEILING FOR MAINTENANCE AS REQUIRED. REFER TO NEW WORK PLANS.
219	REMOVE EXISTING PLASTER CEILING COMPLETE. SALVAGE ALL EXISTING DEVICES FOR REINSTALLATION IN NEW CEILING. PROVIDE NEW ACCESS PANELS IN CEILING FOR MAINTENANCE AS REQUIRED. REFER TO NEW MEP PLANS.
223	EXISTING PLASTER CEILINGS PAINTED WITH LEAD BASED PAINT. REMOVE LEAD BASED PAINT OR PLASTER CEILING ENTIRELY AS REQUIRED FOR NEW WORK. REFER TO SPECIFICATION SECTION 02 83 00 AND PRE-ALTERATION REPORT IN SPECIFICATION APPENDIX A.
233	REMOVE EXISTING HISTORIC PLASTER CEILING ABOVE ACOUSTIC LAY-IN CEILING COMPLETE. EXISTING HISTORIC PLASTER CEILING IS PAINTED WITH LEAD BASED PAINT. ABATE AS REQUIRED FOR NEW WORK. REFER TO HAZARDOUS MATERIAL DRAWINGS.
234	REMOVE PORTION OF EXISTING HISTORIC PLASTER CEILING ABOVE ACOUSTIC LAY-IN CEILING AS REQUIRED FOR NEW WORK. EXISTING HISTORIC PLASTER CEILING IS PAINTED WITH LEAD BASED PAINT. ABATE AS REQUIRED FOR NEW WORK. REFER TO HAZARDOUS MATERIAL DRAWINGS.
235	REMOVE EXISTING HISTORIC PLASTER CEILING ABOVE PLASTER CEILING COMPLETE. EXISTING HISTORIC PLASTER CEILING IS PAINTED WITH LEAD BASED PAINT. ABATE AS REQUIRED FOR NEW WORK. REFER TO HAZARDOUS MATERIAL DRAWINGS.

GENERAL NOTES

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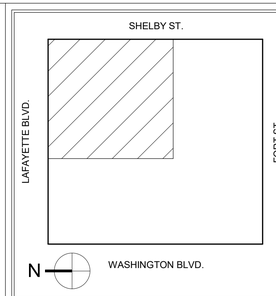

KEY PLAN

1/8"=1'-0" 0 8' 16'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

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BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	SECOND FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	DEMO RCP
SHEET NUMBER AND FILENAME	AD120

SHEET

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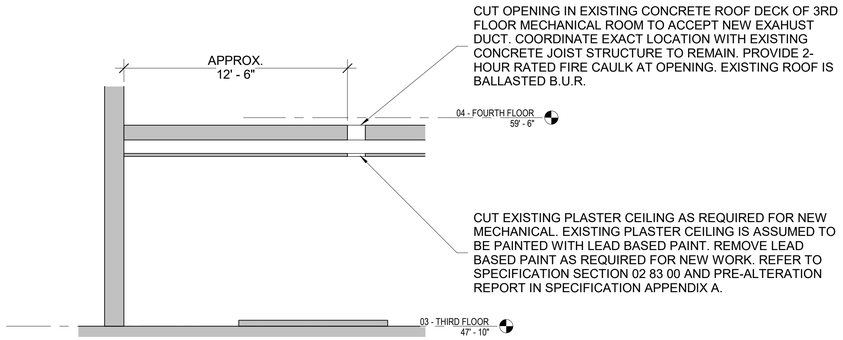
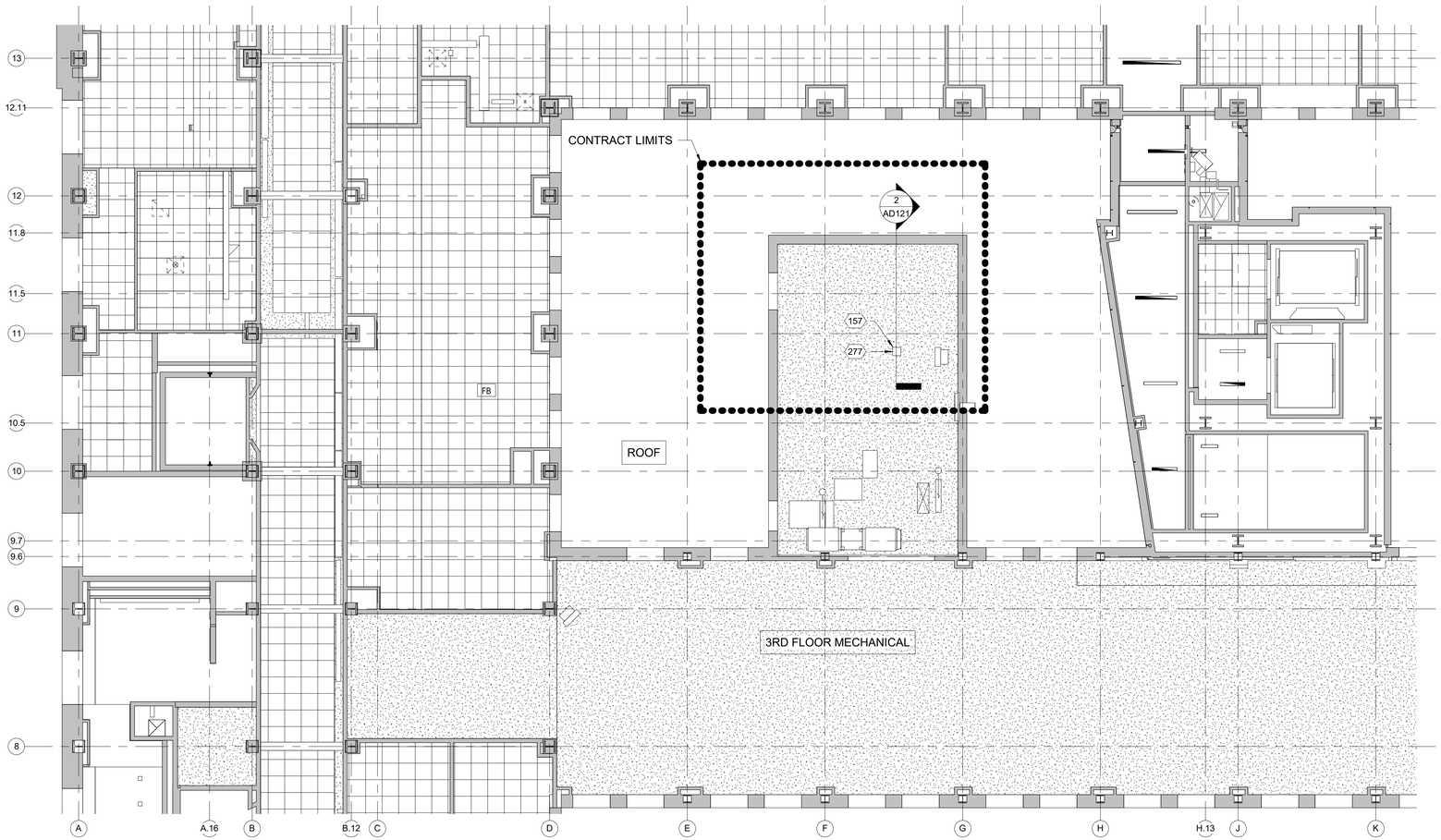


2 AD121 DEMO SECTION AT 3RD FLOOR ROOF
1/4" = 1'-0"



N 1 AD121 THIRD FLOOR - REFLECTED CEILING PLAN - DEMO
1/8" = 1'-0"

GENERAL NOTES

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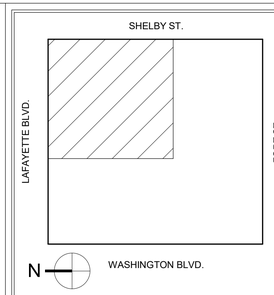
6. IF THERE IS NO CEILING NOTED BY EITHER LEGEND OR KEYNOTE, ASSUME ROOM IS OPEN TO STRUCTURE ABOVE.
7. WHERE PARTIAL REMOVAL OF EXISTING CEILING GRID OCCURS, REMOVE GRID TO NEAREST COMPLETE TILE. STORE TILE AND GRID FOR REINSTALLATION, U.N.O. REPLACE ANY DAMAGED TILE AND/OR GRID TO MATCH EXISTING. ADVISE THE ARCHITECT IF A GREATER SCOPE OF DEMOLITION IS REQUIRED.
8. A HAZARDOUS MATERIALS ASSESSMENT OF THE EXISTING BUILDING IN RELATIONSHIP TO THE CONTRACT LIMITS HAS BEEN COMPLETED. REFER TO THE PRE-ALTERATION AND ASSESSMENT REPORT WITHIN THE CONTRACT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. WHERE EXISTING FIXTURES, FITTINGS, DEVICES, ETC. ARE SHOWN OR NOTED TO BE REMOVED FROM EXISTING CONSTRUCTION, OR WHERE EXPOSED BY DEMOLITION OR BY THE REMOVAL OF FURNITURE BY OTHERS, REMOVE ALL CONDUIT PIPING, CABLING, ETC. BACK TO THE POINT WHERE IT WILL NOT BE EXPOSED IN THE FINISHED SPACE, U.N.O. REMOVE ALL ABANDONED WIRING TO NEAREST JUNCTION BOX OUTSIDE OF THE CONTRACT LIMITS AREA.
10. DEMOLITION SHALL BE EXECUTED IN ACCORDANCE WITH THE HISTORIC TREATMENT PLAN THAT IS SUBMITTED AND APPROVED BY THE CMC AND THEIR QUALIFIED CONSULTANTS.

LEGEND

- EXISTING WALL TO REMAIN
- EXISTING PARTITION TO BE REMOVED
- EXISTING CEILING GRID TO BE REMOVED
- EXISTING PLASTER/GYPSUM CEILING TO BE REMOVED
- EXISTING CEILING GRID TO REMAIN
- EXISTING PLASTER/GYPSUM CEILING TO REMAIN
- 2' X 4' EXISTING LIGHTING FIXTURE
- 2' X 4' EXISTING LIGHTING FIXTURE TO BE REMOVED
- 4' EXISTING LIGHTING FIXTURE TO BE REMOVED

KEYED NOTES

NUMBER	DESCRIPTION
157	CUT NEW OPENING IN CONCRETE ROOF DECK OF 3RD FLOOR MECHANICAL RM TO ACCEPT NEW EXHAUST DUCT. FIRE CAULK. EXISTING ROOF IS BALLASTED B.U.R. INSTALL ON NEW ROOF CURB AND FLASH.
277	PRIOR CUTTING OPENING IN ROOF AND ORDERING / FABRICATING MECHANICAL COMPONENTS, COORDINATE WITH EXISTING CONCRETE JOISTS TO AVOID INTERFERENCE.



KEY PLAN

1/8"=1'-0" 0 8' 16'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION
1	02/15/2023	100% Revision

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

CONSULTANT IDENTIFICATION

STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047664
LICENSED ARCHITECT

STAMP OR SEAL

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	THIRD FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	DEMO RCP
SHEET NUMBER AND FILENAME	AD121

SHEET

1

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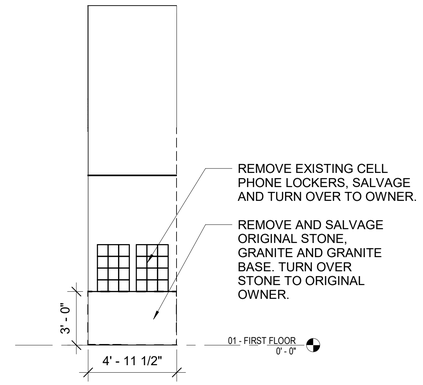
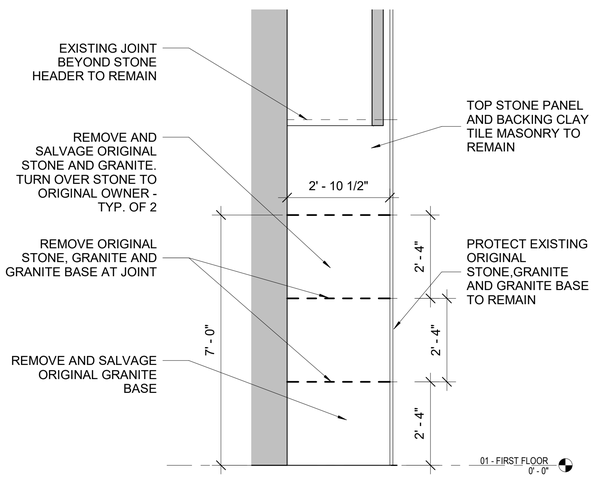
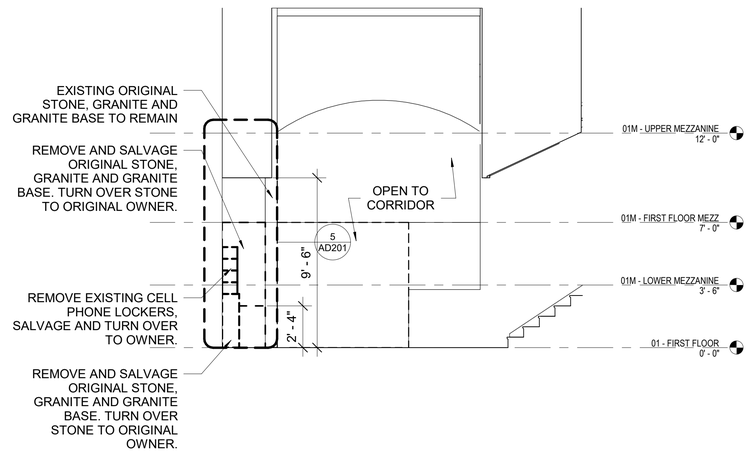


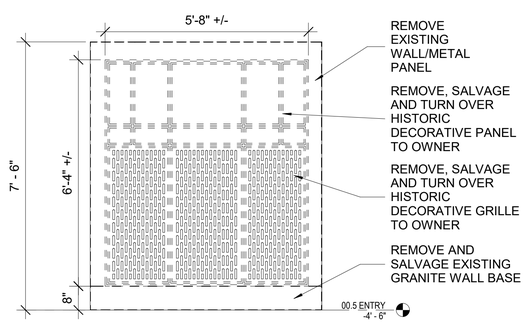
3 AD201 LAFAYETTE BLVD. GUN LOCKER SOUTH - DEMO
1/4" = 1'-0"



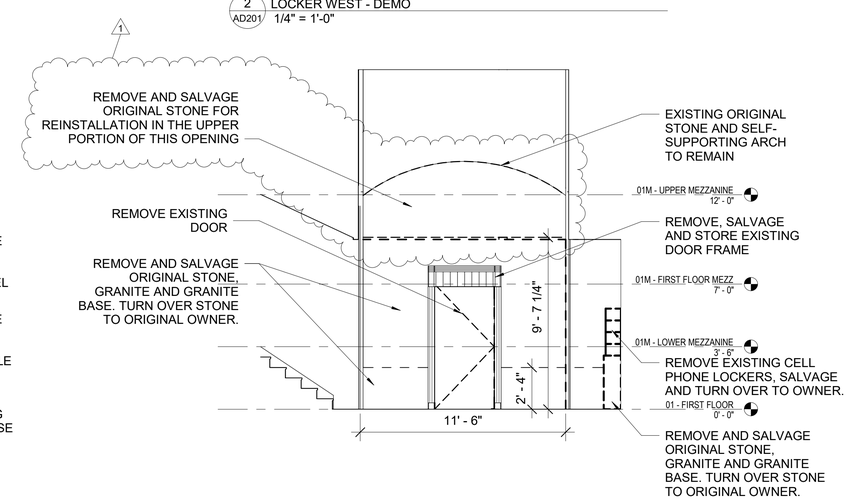
5 AD201 LAFAYETTE BLVD. GUN LOCKER GRANITE REMOVAL
1/2" = 1'-0"



2 AD201 LAFAYETTE BLVD. GUN LOCKER WEST - DEMO
1/4" = 1'-0"



4 AD201 LAFAYETTE LOBBY EAST ELEVATION - DEMO
1/2" = 1'-0"



1 AD201 LAFAYETTE BLVD. LOBBY EAST - DEMO STONE UNDER ARCH
1/4" = 1'-0"

KEY PLAN

GRAPHIC SCALE

1/4"=1'-0" 0 4" 8"

REVISION BLOCK

MARK	DATE	DESCRIPTION
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CONTRACT

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BUILDING NO.	MI0029ZZ

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PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	DEMO ELEVATIONS
SHEET NUMBER AND FILENAME	AD201

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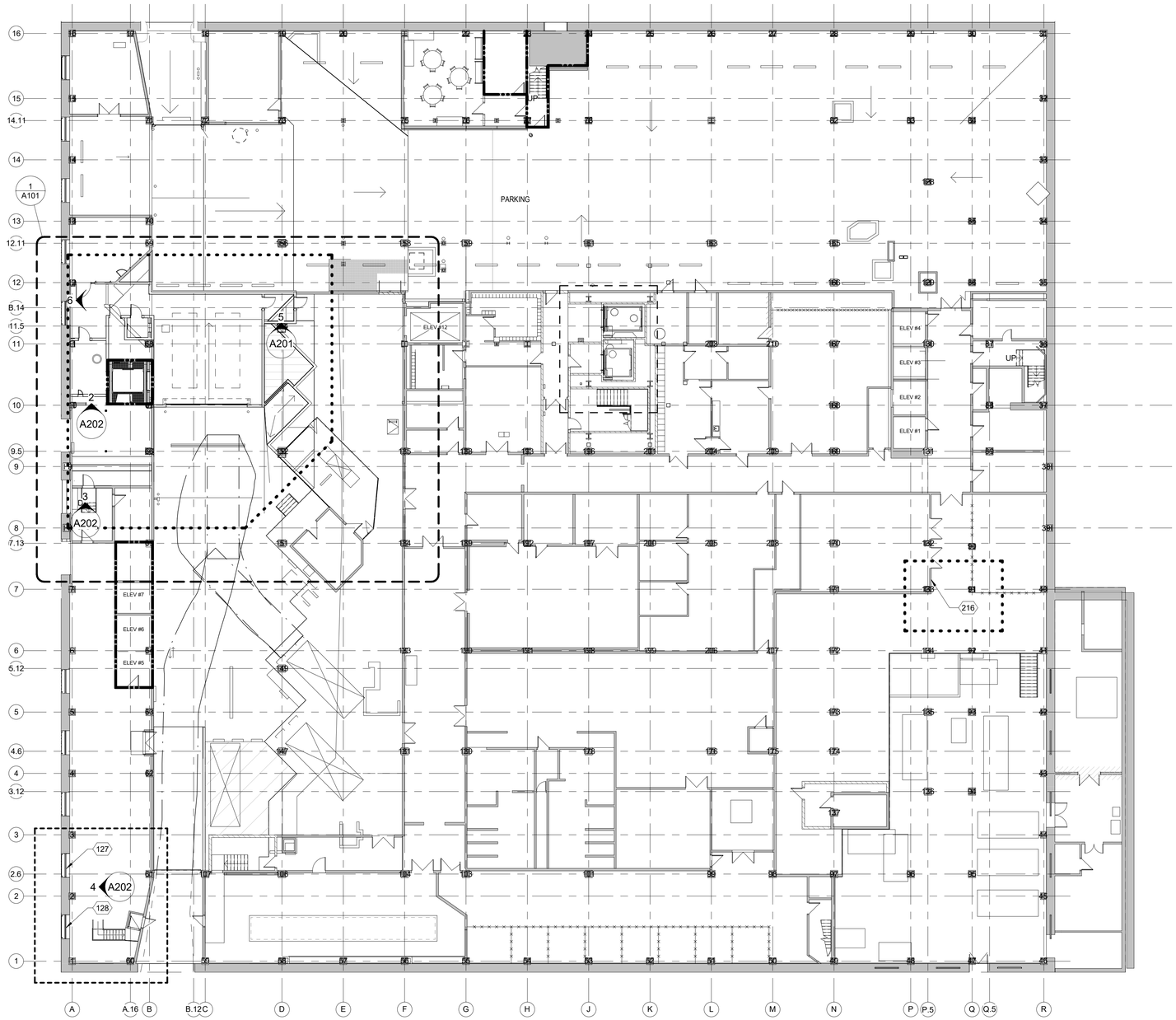

N

1 / A100 BASEMENT FLOOR - VEHICLE SALLYPORT FLOOR PLAN - NEW
1/16" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
2. DIMENSIONS ARE MEASURED TO THE FACE OF PARTITION U.N.O.
3. ALL SWINGING DOORS WITHOUT KEY NUMBERS ARE EXISTING TO REMAIN. U.N.O.
4. WHERE EVER THE TERMINOLOGY (ABAAS) OCCURS, REFERENCE IS MADE TO THE ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARDS.
5. COORDINATE WORK WITH ALL OTHER TRADES.
6. WORK OUTSIDE THE CONTRACT LIMITS MAY BE REQUIRED FOR TIE-INS AND CONNECTIONS. CONTRACTOR TO WORK OUTSIDE OF THE CONTRACT LIMITS AS REQUIRED TO COMPLETE THE ENTIRE SCOPE OF WORK FOR THE PROJECT.
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8. CONTRACTOR SHALL LAYOUT WALL LOCATIONS AND REVIEW WITH ARCHITECT PRIOR TO CONSTRUCTING ANY PARTITIONS.
9. ALL DOORS REQUIRED CLEARANCE OF 18" PULL SIDE AND 12" PUSH SIDE U.N.O.
10. PROVIDE IN-WALL BLOCKING FOR WALL STOPS. REFER TO DOOR SCHEDULE.
11. CONTRACTOR TO REVIEW AND COORDINATE WALLS TO DECK WITH DEVICES SUPPORTED FROM STRUCTURAL DECK ABOVE INCLUDING BUT NOT LIMITED TO FIRE ALARM CONDUIT, JUNCTION BOXES, MECHANICAL DUCTWORK, ETC. CONTRACTOR TO JOG WALLS ABOVE CEILING AS REQUIRED TO AVOID CONFLICTS.

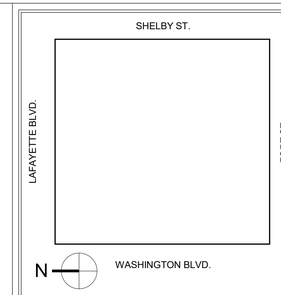
LEGEND

- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- EXISTING DOOR AND FRAME TO REMAIN
- NEW DOOR AND FRAME
- NEW CONCRETE FLOORING
- NEW CONCRETE TOPPING AND/OR SLAB - REFER TO STRUCTURAL
- NEW CONCRETE SIDEWALK
- NEW CONCRETE EMBEDDED SNOW MELT SYSTEM

KEYED NOTES

NUMBER	DESCRIPTION
127	INSTALL NEW INSULATED PANEL. REFER TO DETAILS.
128	INSTALL NEW LOUVER. COORDINATE WITH MECHANICAL. REFER TO DETAILS.
216	NEW MECHANICAL CONTROLS EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.

KEY PLAN



GRAPHIC SCALE

1/16"=1'-0" 0 16' 32'

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

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BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	BASEMENT FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	NEW FLOOR PLAN
SHEET NUMBER AND FILENAME	A100

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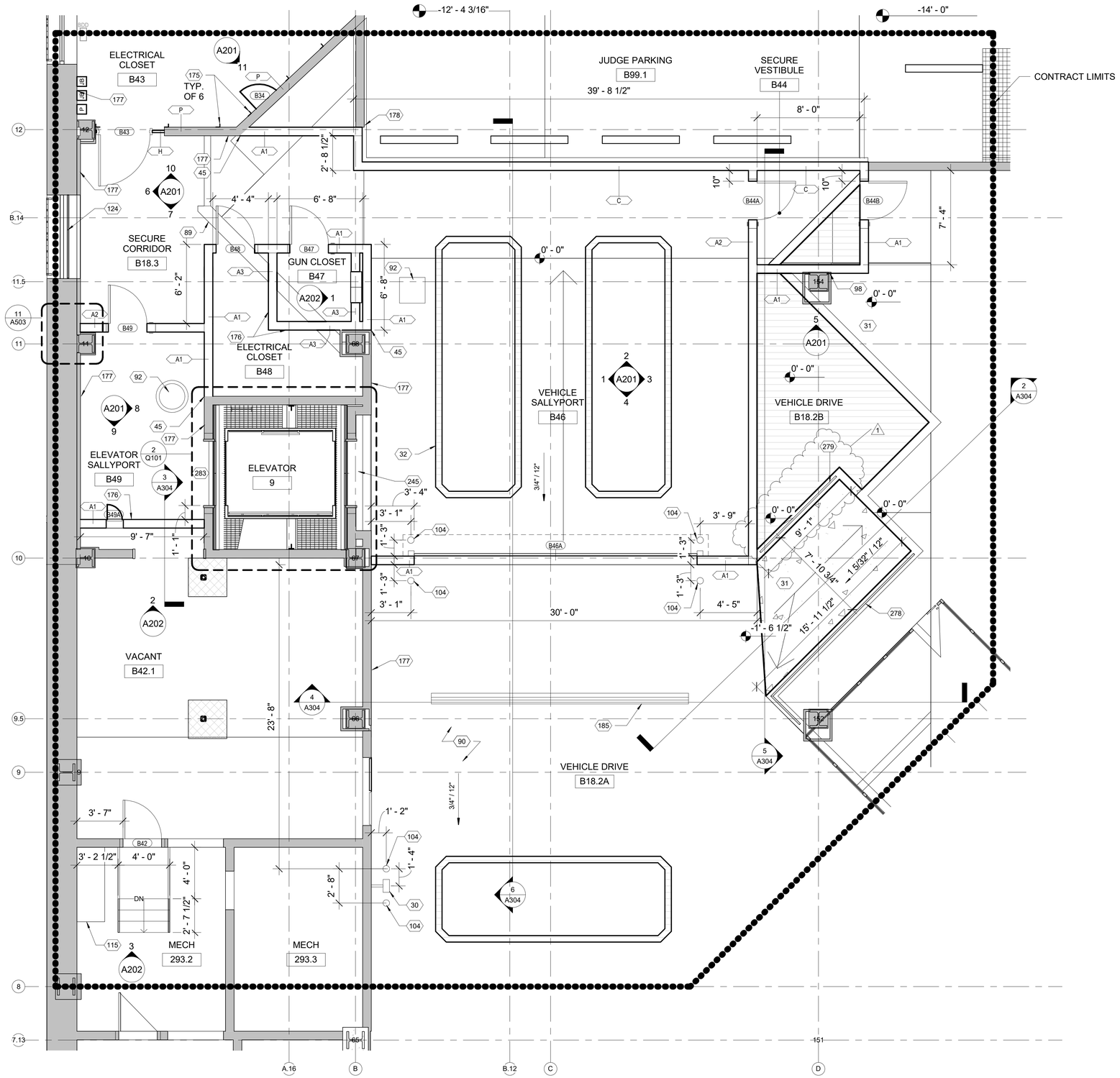

BASEMENT FLOOR - VEHICLE SALLYPORT FLOOR PLAN - NEW
1/4" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
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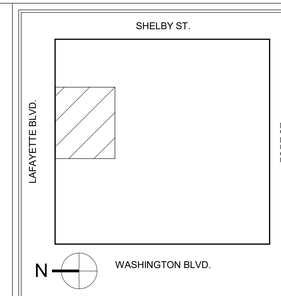
LEGEND

- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- EXISTING DOOR AND FRAME TO REMAIN
- NEW DOOR AND FRAME
- NEW CONCRETE FLOORING
- NEW CONCRETE TOPPING AND/OR SLAB - REFER TO STRUCTURAL
- NEW CONCRETE SIDEWALK
- NEW CONCRETE EMBEDDED SNOW MELT SYSTEM

KEYED NOTES

NUMBER	DESCRIPTION
30	PROVIDE NEW DUAL-HEIGHT, ARM-MOUNTED ACCESS CONTROL STATIONS WITH BOLLARD PROTECTIONS. REFER TO ELECTRICAL DRAWINGS.
31	NEW CONCRETE RAMP TO LOADING DOCK ELEVATION.
32	OUTLINE OF USMS VAN (79.20" W X 244.10" L X 82.90" H)
45	ALIGN NEW CONSTRUCTION WITH EXISTING CONDITION.
89	EXISTING STEEL EDGE TO REMAIN - TYPICAL BOTH SIDES.
90	EXISTING SLOPED CONCRETE TO REMAIN.
92	EXISTING MANHOLE COVER TO REMAIN. INSTALL TWO 3"L STAINLESS STEEL TAMPERPROOF BOLTS AT OPPOSITE CORNERS THROUGH CAST IRON COVER INTO NEW ANCHOR SLEEVES DRILLED INTO EXISTING CONCRETE SLAB BELOW.
98	CUT BLOCK AROUND EXISTING COLUMN AS REQUIRED.
104	NEW PROTECTIVE BOLLARD. CONTRACTOR IS RESPONSIBLE TO PROVIDE GPR SERVICES BEFORE CUTTING / CORING TO AVOID EXISTING UNDERGROUND UTILITIES TO REMAIN. REFER TO TYPICAL BOLLARD DETAIL 2/A502.
115	EXISTING CONCRETE PAD TO REMAIN.
124	PROVIDE NEW MANBARS BEHIND EXISTING LOUVER TO REMAIN AND INSTALL A NEW PRE-FINISHED, INSULATED PANEL WITH CONTINUOUS SEALANT AT ALL EDGES ON THE ROOM SIDE.
175	INSTALL NEW PAINTED STEEL ANGLES TO REINFORCE EXISTING BRICK WALL. COORDINATE WITH EXISTING WALL MOUNTED CONDUIT AND EQUIPMENT.
176	MESH TO DECK NOT REQUIRED AT THIS WALL.
177	EXISTING GLAZED BRICK FINISH TO REMAIN. CLEAN BRICK. PAINT (E) METAL PANEL WALL PROTECTION AT LOWER PORTION OF WALL.
178	REPAIR GYPSUM BOARD AND STUD WALL TO ABUT NEW CMU WALL. INCLUDE EXPANSION JOINT AND SEALANT.
185	INSTALL NEW 20 FT L SPEED HUMP TO HELP PREVENT DUMP TRUCK FROM CONTACTING DOOR.
245	EXISTING STEP UP TO ELEVATOR SILL TO REMAIN.
278	EXISTING SAFETY RAIL TO REMAIN.
279	NEW YELLOW POWDER-COATED 1-5/8" DIA. STEEL PIPE SAFETY RAIL WITH WELDED MIDRAIL. 96"L X 42"H. INCLUDE TWO (2) 5" X 5" MOUNTING PLATES ANCHORED TO THE CONCRETE.
283	PAINT (E) ELEVATOR THRESHOLD WITH EPOXY PAINT SIM IN COLOR TO ADJ TERRAZZO



KEY PLAN

GRAPHIC SCALE

MARK	DATE	DESCRIPTION
1	02/15/2023	100% Revision

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
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CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
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DESIGNER IDENTIFICATION

CONSULTANT IDENTIFICATION

STATE OF MICHIGAN
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No. 1301047654
LICENSED ARCHITECT

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CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	BASEMENT FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	NEW FLOOR PLAN
SHEET NUMBER AND FILENAME	A101

SHEET

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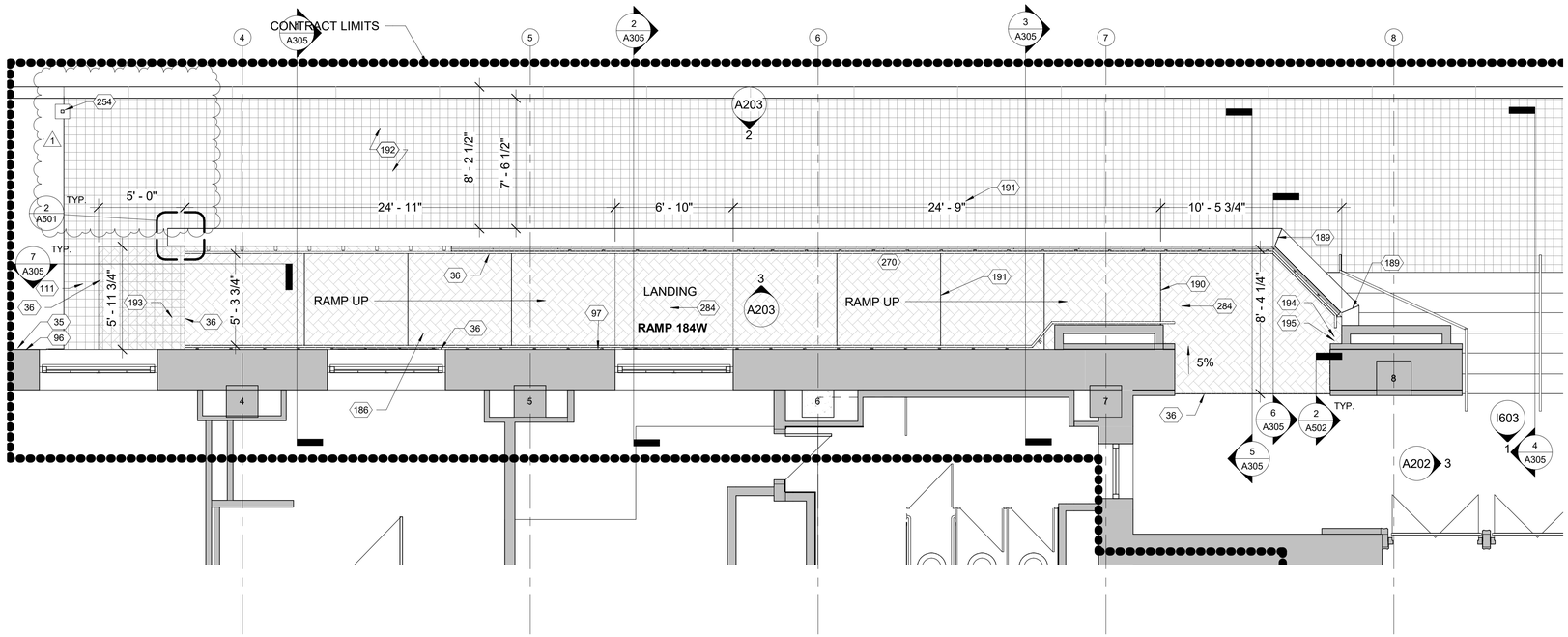
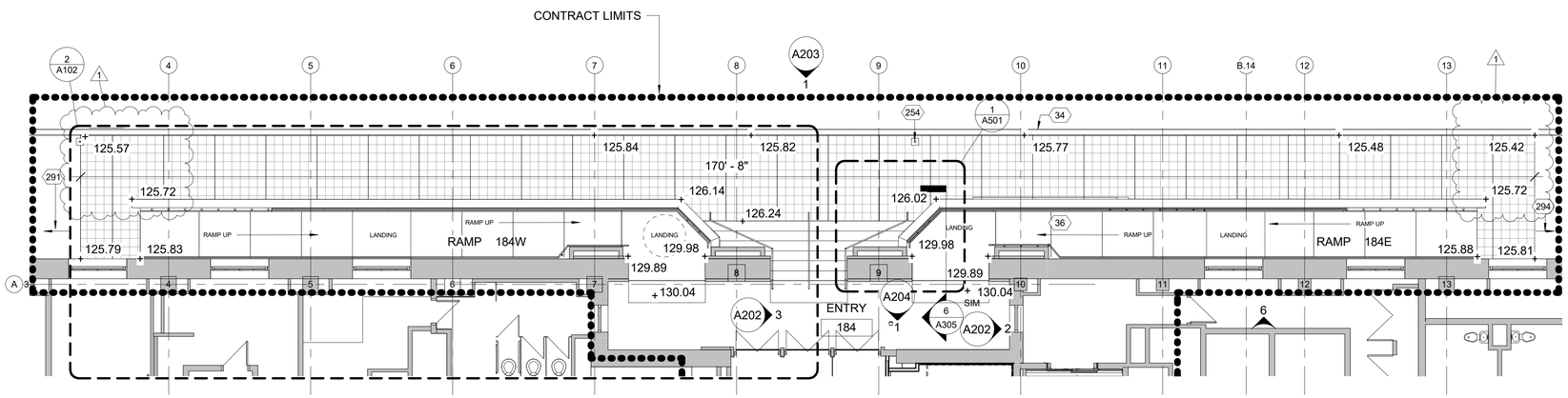


N

LAFAYETTE BLVD. EXTERIOR RAMP ENLARGED FLOOR PLAN - NEW
2 A102
1/4" = 1'-0"



N

LAFAYETTE BLVD. EXTERIOR RAMP - NEW
1 A102
1/8" = 1'-0"

NOTE: POINT ELEVATIONS SHOWN ARE APPROXIMATE. THE INTENT IS TO MEET THE EXISTING EELVATIONS OF THE SIDEWALK AND CURBS TO REMAIN WHILE AVOIDING POINDING AT THE BOTTOM OF THE RAMP AND AGAINST THE RAMP WALLS. VERIFY ALL DIMENSIONS IN THE FIELD.

GENERAL NOTES

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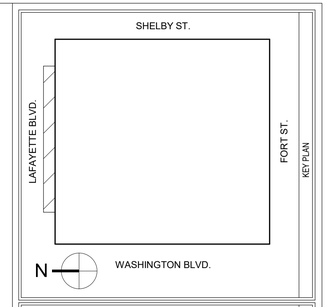
LEGEND

- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- EXISTING DOOR AND FRAME TO REMAIN
- NEW DOOR AND FRAME
- NEW CONCRETE FLOORING
- NEW CONCRETE TOPPING AND/OR SLAB - REFER TO STRUCTURAL
- NEW CONCRETE SIDEWALK
- NEW CONCRETE EMBEDDED SNOW MELT SYSTEM

KEYED NOTES

NUMBER	DESCRIPTION
34	REMOVE AND RESET EXISTING GRANITE CURB ON EXISTING CONCRETE CURB FOUNDATION. FOLLOW CITY OF DETROIT DPW STANDARDS.
35	RELOCATED FIRE DEPARTMENT CONNECTION AS REQUIRED FOR NEW WORK. REFER TO FIRE SUPPRESSION DRAWINGS.
36	PROVIDE EXPANSION JOINT AND SEALANT.
96	INSTALL SALVAGED GRANITE PANEL WITH INSET FIRE DEPARTMENT CONNECTION.
97	INSTALL SALVAGED GRANITE PANEL.
111	NEW SIDEWALK AS REQUIRED. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH CITY OF DETROIT AS REQUIRED FOR WORK. PROVIDE PERMITS AS REQUIRED. REFER TO APPENDIX B FOR THE GEOTECHNICAL REPORT.
186	NEW CONCRETE EMBEDDED SNOW MELT SYSTEM. SEPARATE SYSTEMS FOR EAST AND WEST RAMPS. EXTEND INTO FIRST FLAG OF SIDEWALK - MINIMUM 5 FEET FROM END OF RAMP. INSULATE UNDERSIDE OF TOPPING SLAB.
189	MITER JOINT IN TOP OF SLOPED GRANITE PANEL.
190	CONTROL JOINT AT EACH LEVEL TRANSITION - TYP.
191	SAWCUT CONTROL JOINTS NOT LESS THAN EVERY 5 FEET BUT NOT MORE THAN EVERY 7 FEET - TYP PER CITY OF DETROIT STANDARDS. DO NOT CUT JOINTS DEEPER THAN SNOW MELT MATS.
192	PROVIDE NEW REINFORCED, CONCRETE SIDEWALK FOLLOWING CITY OF DETROIT CONSTRUCTION REQUIREMENTS
193	INSTALL APPROX 16" X 18" 1/4" TH. TEMPERED GLASS PANE WHERE FLEX DUCT HAS BEEN REMOVED.
194	IF REQUIRED BY SNOW MELT MANUFACTURER, INSTALL PAVEMENT-MOUNTED MOISTURE SENSORS. TYP FOR EACH RAMP
195	INSTALL AERIAL MOISTURE SENSOR FOR SNOW MELT SYSTEM FOR RAMP AS REQUIRED BY MANUFACTURER. ROUTE AND LABEL CABLING THROUGH BUILDING ON BRIDAL RINGS.
254	RELOCATED EXISTING SIGN AND POST WITH NEW BAKED ENAMEL 10X10 PLATE AND POST RECEIVER FASTENED WITH 4 ANCHOR BOLTS INTO NEW CONCRETE SIDEWALK.
270	ANCHOR SPACING FOR GLASS TO BE DETERMINED BY GLAZING MANUFACTURER.
284	LANDINGS SHALL HAVE A MINIMUM SLOPE OF 1/8"/FT OR A MAXIMUM SLOPE OF 1/4"/FT IN THE DIRECTION OF DRAINAGE.
291	EXISTING SIDEWALK TO REMAIN. EXISTING SLOPES 0.5% TO BUILDING CORNER.
294	EXISTING SIDEWALK TO REMAIN. EXISTING SLOPES 1% TO BUILDING CORNER.



KEY PLAN

GRAPHIC SCALE

MARK	DATE	DESCRIPTION
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Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	EXTERIOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	NEW FLOOR PLAN
SHEET NUMBER AND FILENAME	A102

SHEET

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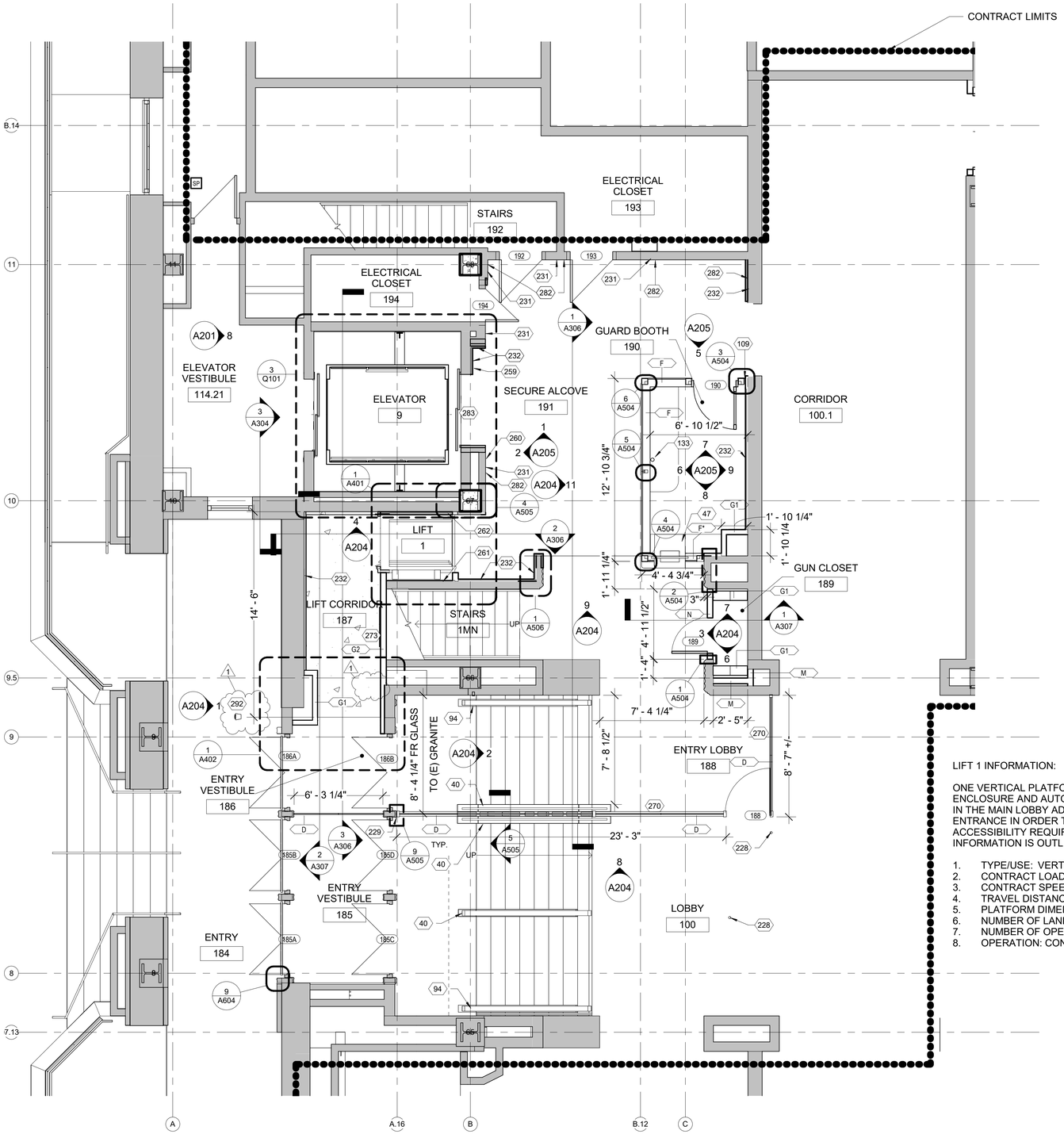

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1 A103 FIRST FLOOR - NORTH LAFAYETTE FLOOR PLAN - NEW
1/4" = 1'-0"

LIFT 1 INFORMATION:

ONE VERTICAL PLATFORM WHEELCHAIR LIFT WITH AN ENCLOSURE AND AUTOMATIC GATES WILL BE INSTALLED IN THE MAIN LOBBY ADJACENT TO THE LAFAYETTE ENTRANCE IN ORDER TO PROVIDE COMPLIANCE WITH ACCESSIBILITY REQUIREMENTS. GENERAL EQUIPMENT INFORMATION IS OUTLINED BELOW.

1. TYPE/USE: VERTICAL PLATFORM LIFT
2. CONTRACT LOAD, IN POUNDS: 750
3. CONTRACT SPEED, IN FPM: 20
4. TRAVEL DISTANCE: 4' – 8" (FIELD VERIFY)
5. PLATFORM DIMENSIONS: 36" WIDE BY 60" DEEP
6. NUMBER OF LANDINGS: TWO (2)
7. NUMBER OF OPENINGS: TWO (2) FRONT AND REAR
8. OPERATION: CONSTANT PRESSURE

GENERAL NOTES

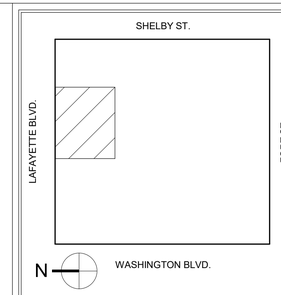
1. CONTRACTOR SHALL COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
2. DIMENSIONS ARE MEASURED TO THE FACE OF PARTITION U.N.O.
3. ALL SWINGING DOORS WITHOUT KEY NUMBERS ARE EXISTING TO REMAIN. U.N.O.
4. WHERE EVER THE TERMINOLOGY (ABAAS) OCCURS, REFERENCE IS MADE TO THE ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARDS.
5. COORDINATE WORK WITH ALL OTHER TRADES.
6. WORK OUTSIDE THE CONTRACT LIMITS MAY BE REQUIRED FOR TIE-INS AND CONNECTIONS. CONTRACTOR TO WORK OUTSIDE OF THE CONTRACT LIMITS AS REQUIRED TO COMPLETE THE ENTIRE SCOPE OF WORK FOR THE PROJECT.
7. PATCH ANY OPENINGS, CORES, FASTENER HOLES, ETC. RESULTING FROM DEMOLITION.
8. CONTRACTOR SHALL LAYOUT WALL LOCATIONS AND REVIEW WITH ARCHITECT PRIOR TO CONSTRUCTING ANY PARTITIONS.
9. ALL DOORS REQUIRED CLEARANCE OF 18" PULL SIDE AND 12" PUSH SIDE U.N.O.
10. PROVIDE IN-WALL BLOCKING FOR WALL STOPS. REFER TO DOOR SCHEDULE.
11. CONTRACTOR TO REVIEW AND COORDINATE WALLS TO DECK WITH DEVICES SUPPORTED FROM STRUCTURAL DECK ABOVE INCLUDING BUT NOT LIMITED TO FIRE ALARM CONDUIT, JUNCTION BOXES, MECHANICAL DUCTWORK, ETC. CONTRACTOR TO JOG WALLS ABOVE CEILING AS REQUIRED TO AVOID CONFLICTS.

LEGEND

- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- EXISTING DOOR AND FRAME TO REMAIN
- NEW DOOR AND FRAME
- NEW CONCRETE FLOORING
- NEW CONCRETE TOPPING AND/OR SLAB - REFER TO STRUCTURAL
- NEW CONCRETE SIDEWALK
- NEW CONCRETE EMBEDDED SNOW MELT SYSTEM

KEYED NOTES

NUMBER	DESCRIPTION
40	NEW STAINLESS STEEL HANDRAIL.
47	NEW TRANSACTION COUNTER.
94	EXISTING HANDRAIL TO REMAIN.
109	PROVIDE CUSTOM METAL ENCLOSURE WITH LEVEL III BALLISTIC MATERIAL BETWEEN DOOR AND WALL.
133	NEW GROMMET.
228	PATCH TERRAZZO FLOOR AT (2) 2" DIA. FLOOR CORES WHERE POWER HAS BEEN DEMOLISHED.
229	CENTER NEW WALL ON EXISTING MULLION TO REMAIN.
231	SCARIFY EXISTING PLASTER WALL AS NEEDED TO INSTALL NEW WALL TILE.
232	PROVIDE 7/8" WALL FURRING TO INSTALL NEW SCHEDULED WALL TILE ON NEW 1/2" CEMENT BOARD. PREPARE SUBSTRATE TO RECEIVE FINISH.
259	RELOCATED FIRE DEPARTMENT EMERGENCY BOX AS REQUIRED FOR NEW WORK. REFER TO FIRE SUPPRESSION DRAWINGS.
260	RELOCATED ELEVATOR PUSH BUTTONS AS REQUIRED FOR NEW WORK. REFER TO ELEVATOR DRAWINGS.
261	PROVIDE NEW 5/8" GYPSUM BOARD. PREPARE SUBSTRATE TO RECEIVE FINISH.
262	PROVIDE 1 1/2" WALL STUD TO INSTALL NEW SCHEDULED WALL TILE ON NEW 1/2" CEMENT BOARD. PREPARE SUBSTRATE TO RECEIVE FINISH.
270	ANCHOR SPACING FOR GLASS TO BE DETERMINED BY GLAZING MANUFACTURER.
273	CUSTOM PAINT UNIT HEATER IN FIELD TO MATCH WALL COLOR
282	REPAIR PLASTER CEILING ABOVE NEW WALL TILE AS REQUIRED TO ACCEPT NEW PAINT.
283	PAINT (E) ELEVATOR THRESHOLD WITH EPOXY PAINT SIM IN COLOR TO ADJ TERRAZZO
292	NEW POST FOR POWER ASSIST DOOR OPENER BUTTON AND CARD READER. VERIFY LOCATION IN FIELD.



KEY PLAN

GRAPHIC SCALE

1/4"=1'-0" 0 4' 8'

REVISION BLOCK

MARK	DATE	DESCRIPTION
1	02/15/2023	100% Revision

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

STAMP OR SEAL

STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047664
LICENSED ARCHITECT

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GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	NEW FLOOR PLAN
SHEET NUMBER AND FILENAME	A103

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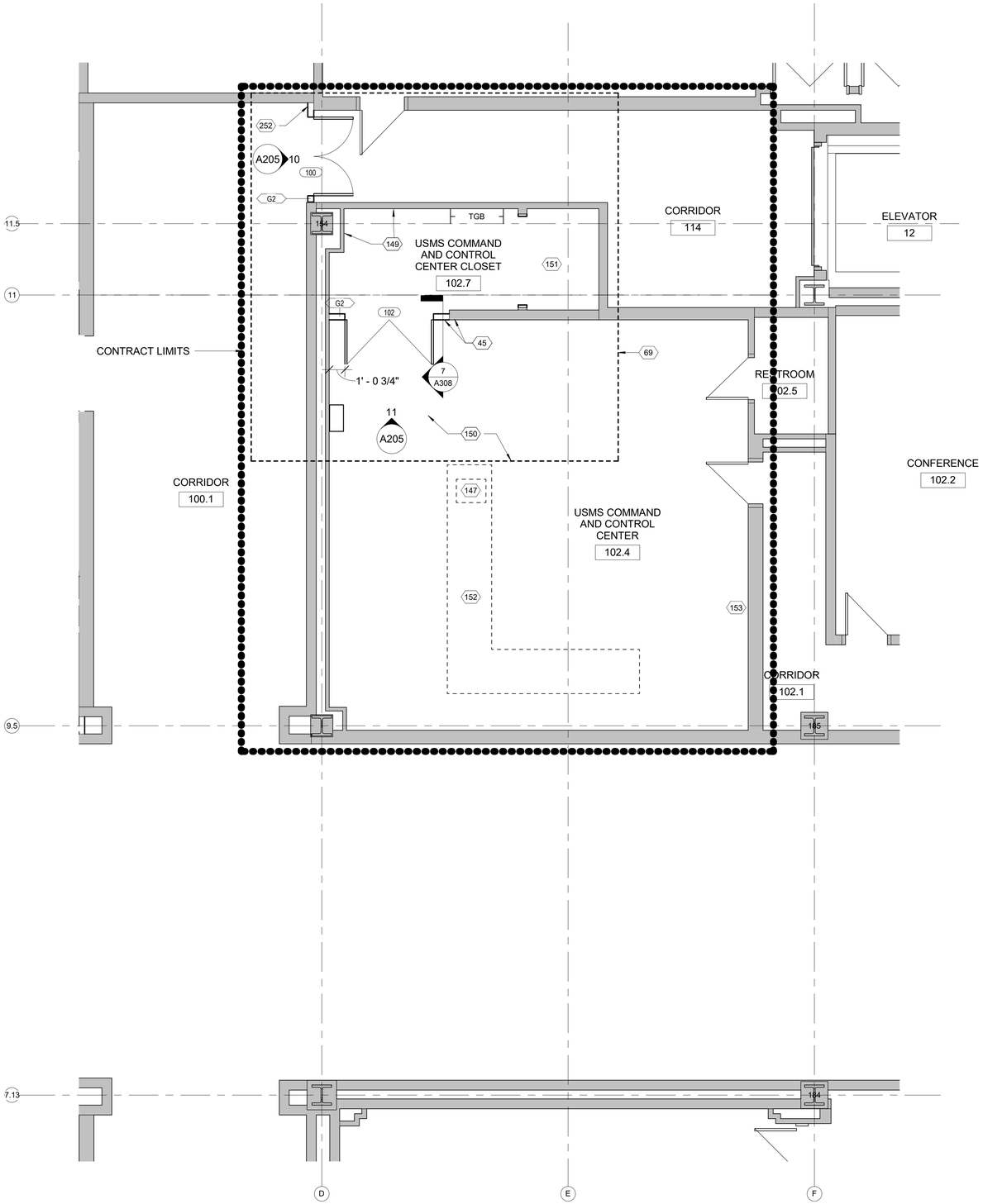

N

1 A104 FIRST FLOOR COMMAND AND CONTROL CENTER FLOOR PLAN - NEW
1/4" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
2. DIMENSIONS ARE MEASURED TO THE FACE OF PARTITION U.N.O.
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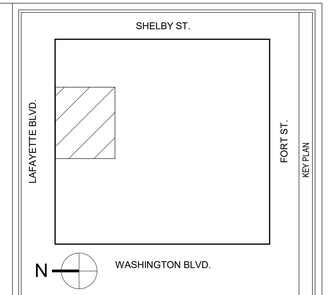
9. ALL DOORS REQUIRED CLEARANCE OF 18" PULL SIDE AND 12" PUSH SIDE U.N.O.
10. PROVIDE IN-WALL BLOCKING FOR WALL STOPS. REFER TO DOOR SCHEDULE.
11. CONTRACTOR TO REVIEW AND COORDINATE WALLS TO DECK WITH DEVICES SUPPORTED FROM STRUCTURAL DECK ABOVE INCLUDING BUT NOT LIMITED TO FIRE ALARM CONDUIT, JUNCTION BOXES, MECHANICAL DUCTWORK, ETC. CONTRACTOR TO JOG WALLS ABOVE CEILING AS REQUIRED TO AVOID CONFLICTS.

LEGEND

- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- EXISTING DOOR AND FRAME TO REMAIN
- NEW DOOR AND FRAME
- NEW CONCRETE FLOORING
- NEW CONCRETE TOPPING AND/OR SLAB - REFER TO STRUCTURAL
- NEW CONCRETE SIDEWALK
- NEW CONCRETE EMBEDDED SNOW MELT SYSTEM

KEYED NOTES

NUMBER	DESCRIPTION
45	ALIGN NEW CONSTRUCTION WITH EXISTING CONDITION.
69	WORK ASSOCIATED WITH ENLARGING SECURITY CLOSET RISER IS TO PRICED AS PART OF OPTION 1.
147	PROVIDE APPROXIMATELY 19"X24" ELEVATOR #9 CONTROL PANEL WITH GRAPHICS, CONTROL BUTTONS AND INDICATOR LIGHTS IN FURNITURE MODULE PROVIDED BY OTHERS. COMPLETE AS A FULL TURN-KEY INSTALLATION.
149	WALL MOUNT CONTROL BOXES AND MODULES REQUIRED FOR A TURN-KEY INSTALLATION OF THE ELEVATOR AND THE DETENTION DOOR CONTROL PANELS ON A NEW PAINTED, FIRE-RESISTANT PLYWOOD BACKBOARD. TWO (2) 4'X8' SHEETS RUN HORIZONTALLY.
150	EXISTING RAISED FLOOR FOR ACCESS TO OPEN WIREWAY.
151	ACCESS TO RAISED FLOOR FROM CLOSET. CORE THROUGH CONCRETE FLOOR SLAB TO ACCOMMODATE NEW CONDUITS RUNNING FOR NEW CONTROL PANELS.
152	COMMAND CENTER FURNITURE MODULE BY OTHERS.
153	PROVIDE WALL MOUNTED ELEVATOR STOP / RETURN TO 1ST FLOOR BUTTON.
252	INSTALL NEW PARTITION IN FRONT OF EXISTING CONSTRUCTION.



KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

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BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	NEW FLOOR PLAN
SHEET NUMBER AND FILENAME	A104

SHEET

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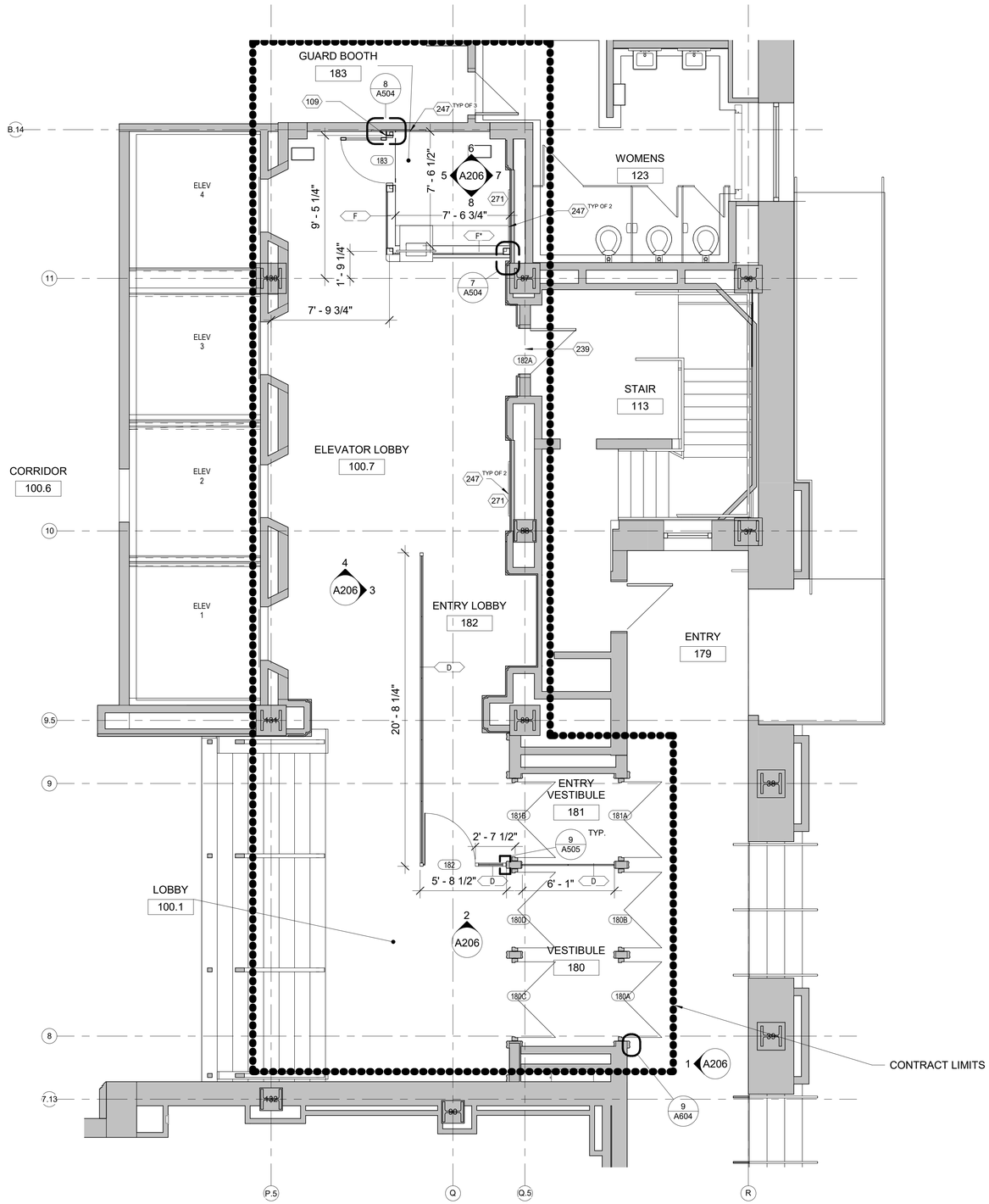

N

1 A105 FIRST FLOOR FORT ST. ENTRANCE FLOOR PLAN - NEW
1/4" = 1'-0"

GENERAL NOTES

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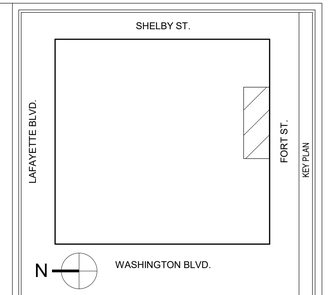
LEGEND

- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- EXISTING DOOR AND FRAME TO REMAIN
- NEW DOOR AND FRAME
- NEW CONCRETE FLOORING
- NEW CONCRETE TOPPING AND/OR SLAB - REFER TO STRUCTURAL
- NEW CONCRETE SIDEWALK
- NEW CONCRETE EMBEDDED SNOW MELT SYSTEM

KEYED NOTES

NUMBER	DESCRIPTION
109	PROVIDE CUSTOM METAL ENCLOSURE WITH LEVEL III BALLISTIC MATERIAL BETWEEN DOOR AND WALL.
239	EXISTING DOOR TO REMAIN. NEW LOCKSET OPERATIONAL ONLY FROM THE STAIR SIDE. SCARIFY LOBBY SIDE OF THE DOOR TO ACCEPT NEW PAINT. RETAIN 90-MINUTE DOOR RATING.
247	PATCH 1.5"+/- DIA. HOLES IN MANKATO STONE WALL.
271	DISASSEMBLE BULLETIN BOARD INNER STOP AND FELT BOARD TO DETERMINE THE CONDITION BEHIND THE BOARD. REASSEMBLE THE BOARD.



KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
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BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	A105

SHEET

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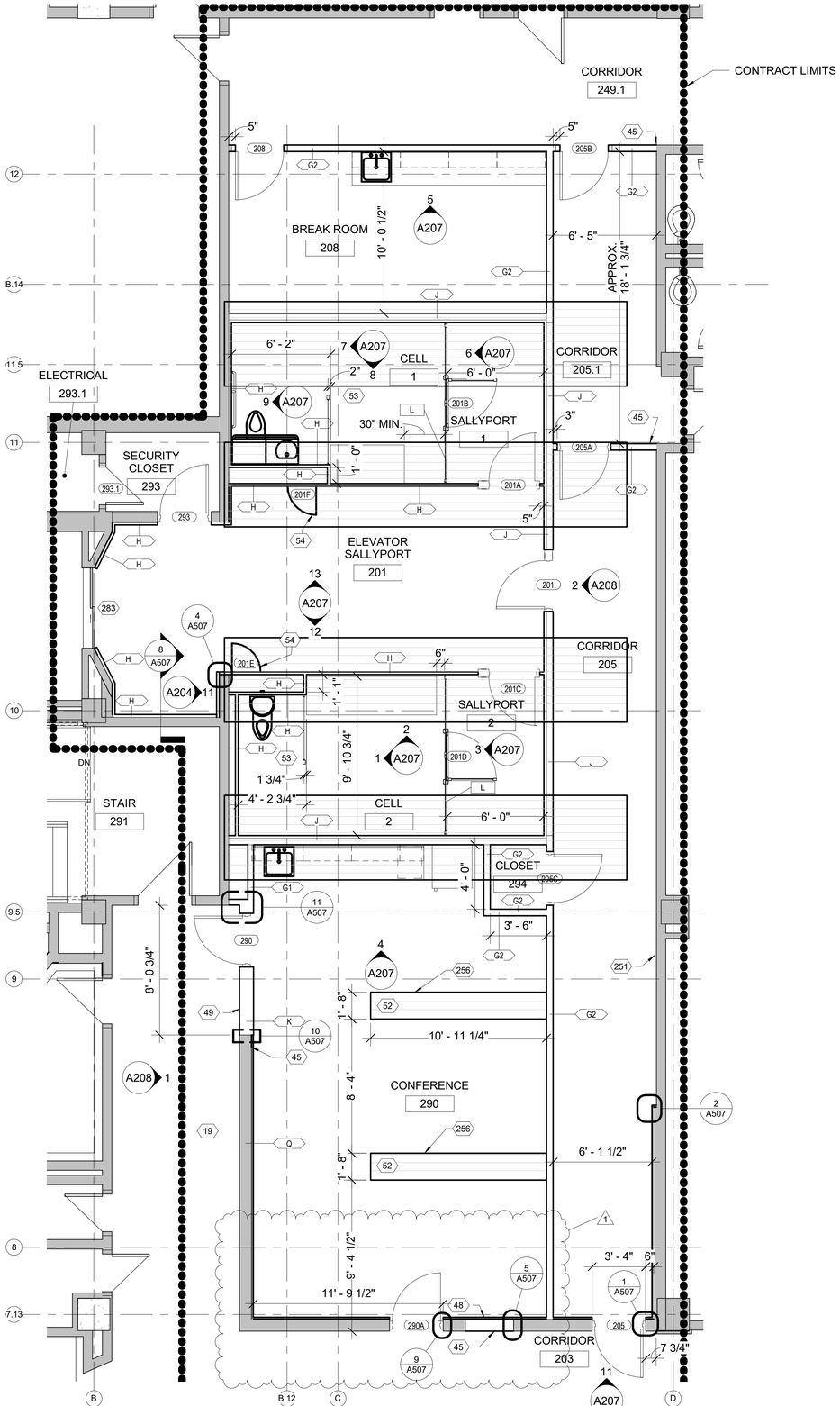

SECOND FLOOR ENLARGED PLAN - OPTION 1 FLOOR PLAN - NEW
1/4" = 1'-0"

GENERAL NOTES

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9. ALL DOORS REQUIRED CLEARANCE OF 18" PULL SIDE AND 12" PUSH SIDE U.N.O.
10. PROVIDE IN-WALL BLOCKING FOR WALL STOPS. REFER TO DOOR SCHEDULE.
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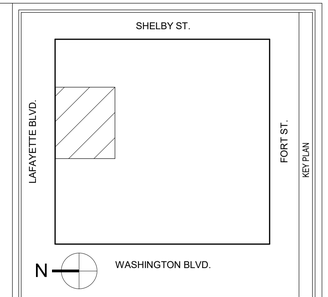
LEGEND

- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- EXISTING DOOR AND FRAME TO REMAIN
- NEW DOOR AND FRAME
- NEW CONCRETE FLOORING
- NEW CONCRETE TOPPING AND/OR SLAB - REFER TO STRUCTURAL
- NEW CONCRETE SIDEWALK
- NEW CONCRETE EMBEDDED SNOW MELT SYSTEM

KEYED NOTES

NUMBER	DESCRIPTION
19	TAKE CARE TO PROTECT EXISTING FINISHES TO REMAIN.
45	ALIGN NEW CONSTRUCTION WITH EXISTING CONDITION.
48	INFILL EXISTING OPENING WITH (2) WALL TYPE G1 PARTITIONS TO FILL EXISTING VOID. ALIGN NEW CONSTRUCTION WITH EXISTING CONSTRUCTION.
49	REINSTALL SALVAGED STONE CLADDING AND BASE IN CORRIDOR AS REQUIRED FOR NEW WORK.
52	CORE FLOOR AS REQUIRED FOR NEW ELECTRICAL WORK. REFER TO ELECTRICAL DRAWINGS.
53	PROVIDE NEW STAINLESS STEEL BENCHES, CELL FRONTS, AND NEW SECURITY DETENTION PLUMBING FIXTURES.
54	PROVIDE NEW ACCESS PANEL FOR FUTURE PLUMBING MAINTENANCE.
251	REPAIR PLASTER WALL WHERE WALL IS REMOVED.
256	A POKE THROUGH BOX IN LIEU OF TOPPING REMOVAL MAY BE INSTALLED AT THE CONTRACTOR'S OPTION.
283	PAINT (E) ELEVATOR THRESHOLD WITH EPOXY PAINT SIM IN COLOR TO ADJ TERRAZZO



KEY PLAN

GRAPHIC SCALE

MARK	DATE	DESCRIPTION
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GSA PROJECT NO.	VMI00051
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SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	SECOND FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	ENLARGED FLOOR PLAN
SHEET NUMBER AND FILENAME	A106

SHEET

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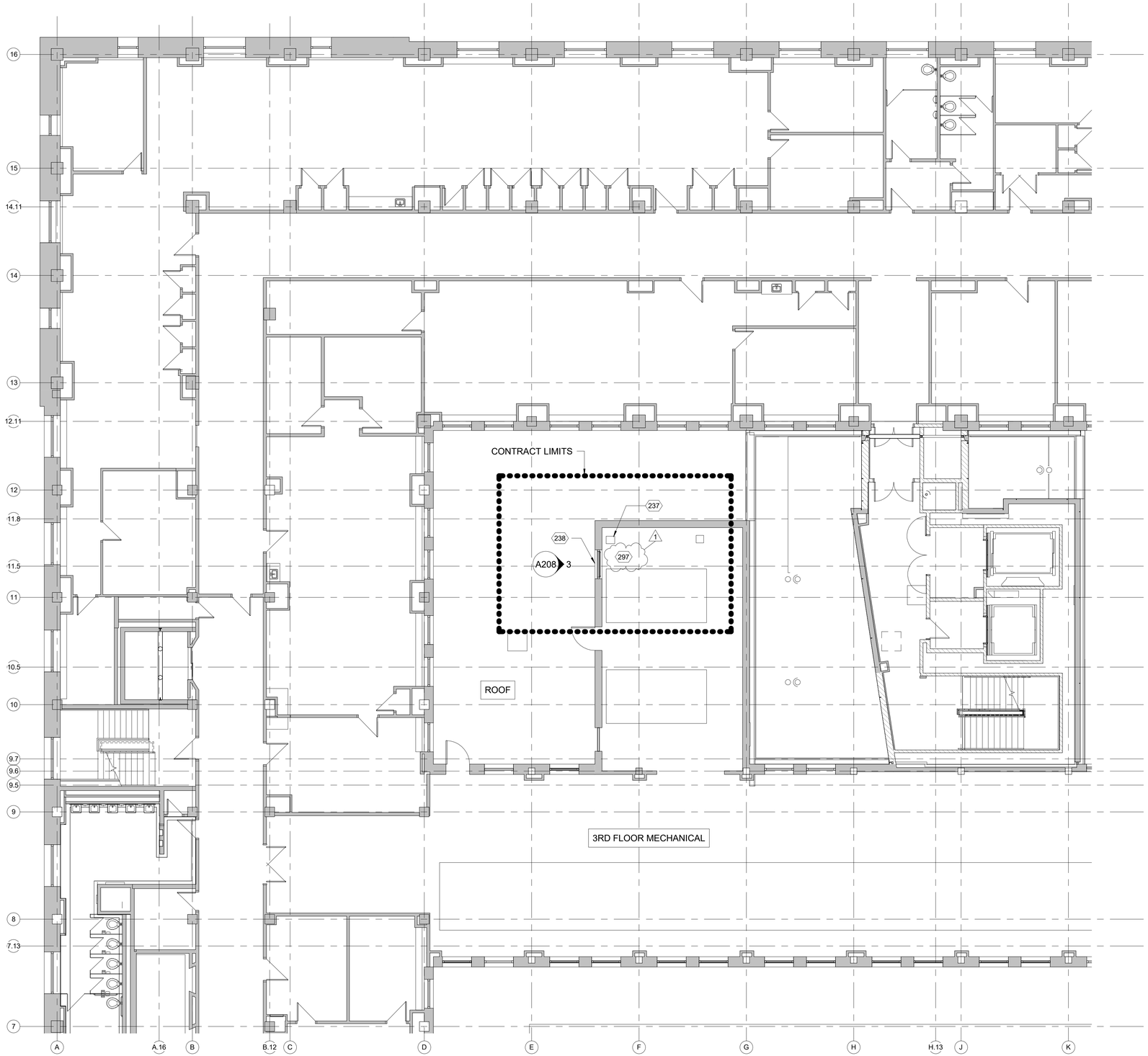

N

1 / A107 THIRD FLOOR - OPTION 1 FLOOR PLAN - NEW
1/8" = 1'-0"

GENERAL NOTES

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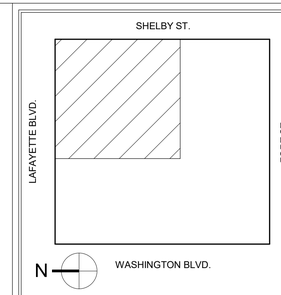
- NEW DOOR AND FRAME
- NEW CONCRETE FLOORING
- NEW CONCRETE TOPPING AND/OR SLAB - REFER TO STRUCTURAL
- NEW CONCRETE SIDEWALK
- NEW CONCRETE EMBEDDED SNOW MELT SYSTEM

KEYED NOTES

NUMBER	DESCRIPTION
237	INSTALL NEW ROOF CURB AND EXHAUST HOOD PER MECHANICAL DRAWINGS. FLASH INTO EXISTING BALLASTED BUILT UP ROOF.
238	INSTALL NEW LOUVER WITH FLANGED EDGE INTO UPPER HALF OF EXISTING HISTORIC STEEL WINDOW FRAME. LOUVER IS APPROXIMATELY 42"X52" IN MILL FINISHED ALUMINUM TO MATCH ADJACENT LOUVER.
297	SUPPORT FOR THE ENERGY RECOVERY UNIT (ERU) IS A DELEGATED DESIGN AND SHALL BE COVERED BY THE CONTRACTOR'S STRUCTURAL ENGINEER OR THE ERU MANUFACTURER.

KEY PLAN



GRAPHIC SCALE

1/8"=1'-0" 0 8' 16'

REVISION BLOCK

MARK	DATE	DESCRIPTION
1	02/15/2023	100% Revision

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

STAMP OR SEAL

STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047664
LICENSED ARCHITECT

OWNER IDENTIFICATION

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	THIRD FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	OPTION 1 - FLOOR PLAN
SHEET NUMBER AND FILENAME	A107

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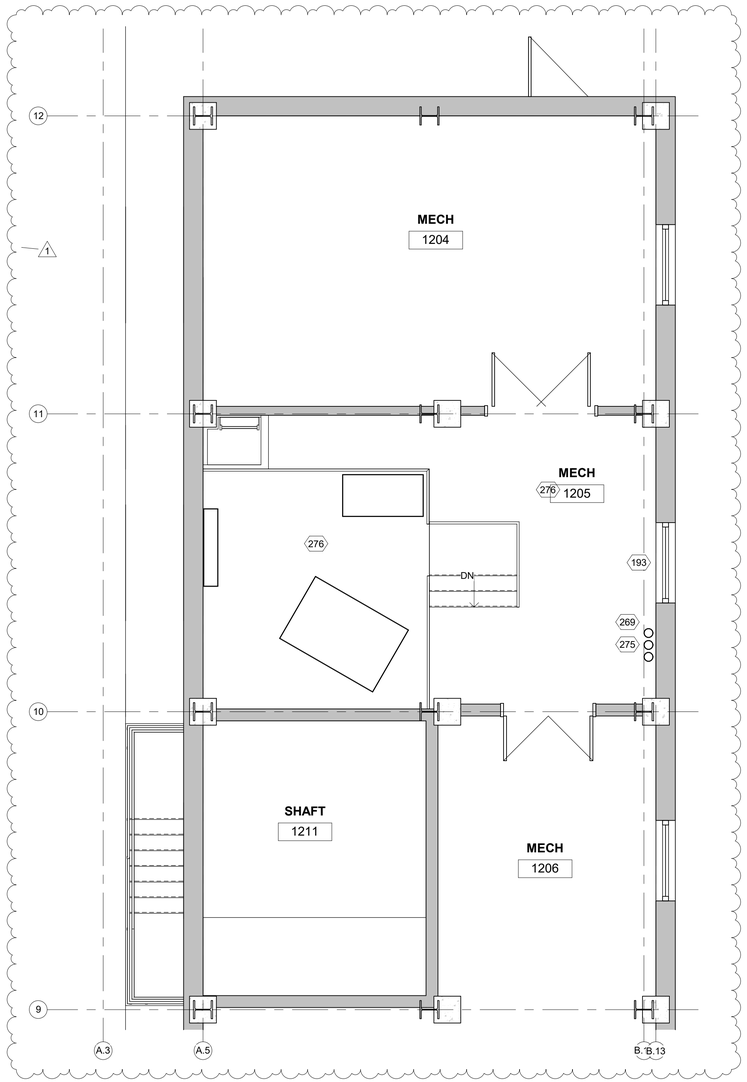
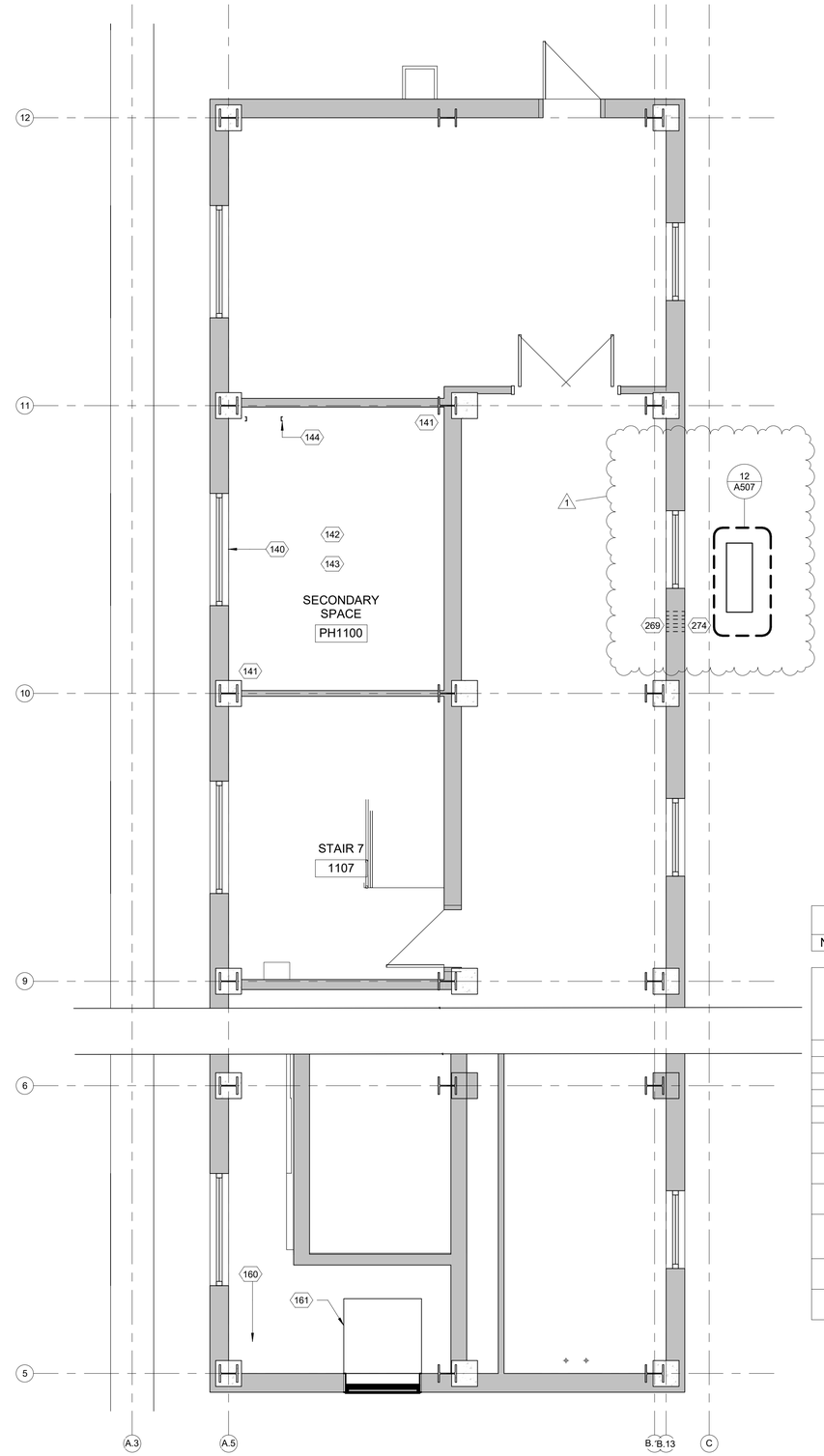


N 2 A108 PENTHOUSE - ELEVATOR 9 MACHINE RM - NEW FLOOR PLAN
1/4" = 1'-0"



N 1 A108 ELEVENTH FLOOR ELEVATOR 9 SECONDARY SPACE FLOOR PLAN - NEW
1/4" = 1'-0"

GENERAL NOTES

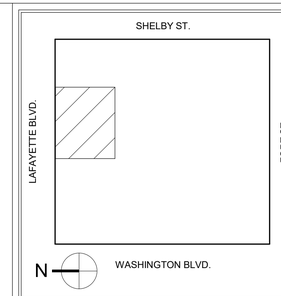
1. CONTRACTOR SHALL COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
2. DIMENSIONS ARE MEASURED TO THE FACE OF PARTITION U.N.O.
3. ALL SWINGING DOORS WITHOUT KEY NUMBERS ARE EXISTING TO REMAIN. U.N.O.
4. WHERE EVER THE TERMINOLOGY (ABAAS) OCCURS, REFERENCE IS MADE TO THE ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARDS.
5. COORDINATE WORK WITH ALL OTHER TRADES.
6. WORK OUTSIDE THE CONTRACT LIMITS MAY BE REQUIRED FOR TIE-INS AND CONNECTIONS. CONTRACTOR TO WORK OUTSIDE OF THE CONTRACT LIMITS AS REQUIRED TO COMPLETE THE ENTIRE SCOPE OF WORK FOR THE PROJECT.
7. PATCH ANY OPENINGS, CORES, FASTENER HOLES, ETC. RESULTING FROM DEMOLITION.
8. CONTRACTOR SHALL LAYOUT WALL LOCATIONS AND REVIEW WITH ARCHITECT PRIOR TO CONSTRUCTING ANY PARTITIONS.
9. ALL DOORS REQUIRED CLEARANCE OF 18" PULL SIDE AND 12" PUSH SIDE U.N.O.
10. PROVIDE IN-WALL BLOCKING FOR WALL STOPS. REFER TO DOOR SCHEDULE.
11. CONTRACTOR TO REVIEW AND COORDINATE WALLS TO DECK WITH DEVICES SUPPORTED FROM STRUCTURAL DECK ABOVE INCLUDING BUT NOT LIMITED TO FIRE ALARM CONDUIT, JUNCTION BOXES, MECHANICAL DUCTWORK, ETC. CONTRACTOR TO JOG WALLS ABOVE CEILING AS REQUIRED TO AVOID CONFLICTS.

LEGEND

- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- EXISTING DOOR AND FRAME TO REMAIN
- NEW DOOR AND FRAME
- NEW CONCRETE FLOORING
- NEW CONCRETE TOPPING AND/OR SLAB - REFER TO STRUCTURAL
- NEW CONCRETE SIDEWALK
- NEW CONCRETE EMBEDDED SNOW MELT SYSTEM

KEYED NOTES

NUMBER	DESCRIPTION
140	INSTALL NEW PRE-FINISHED BLACK ENAMEL (BOTH SIDES) 1/4" STEEL PANEL OVER EXISTING WINDOW. APPROXIMATELY 8'W X 5'H. FASTEN 3X3 PAINTED STEEL ANGLE CONTINUOUS FOR WIDTH OF PANEL TO CONCRETE FLOOR AND STRUCTURE ABOVE. MAKE REMOVABLE FOR FUTURE WINDOW MAINTENANCE.
141	FIRESTOP CLAY TILE WALL OPENING - APPROXIMATELY 6" DIA.
142	PAINT WALLS AND CONCRETE DECK ABOVE WITH LATEX PAINT.
143	PAINT CONCRETE FLOOR WITH WATER-BASED EPOXY PAINT.
144	EXISTING STEEL LADDER AND FLOOR HATCH ABOVE TO REMAIN.
160	MECHANICAL ACCESS BEHIND ELEVATORS.
161	EXISTING 52"W X 60"H NON-INSULATED SHEET METAL DUCT TO REMAIN.
193	INSTALL APPROX 16" X 18" 1/4" TH. TEMPERED GLASS PANE WHERE FLEX DUCT HAS BEEN REMOVED.
269	COORDINATE WITH MECHANICAL AND FASTEN NEW PIPING AND CONDUIT FOR HVAC TO (E) MASONRY WALL.
274	CORE THREE HOLES THRU LIMESTONE WALLS TO ACCOMMODATE NEW PIPING AND CONDUIT. SALVAGE CORES IF FEASIBLE AND TURNOVER TO GSA.
275	CORE THREE HOLES THRU CONCRETE FLOOR TO ACCOMMODATE NEW PIPING AND CONDUIT.
276	PAINT FLOOR AND ELEVATOR EQUIPMENT PLATFORM WITH WATER BASED EPOXY FLOOR COATING.



KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION
1	02/15/2023	100% Revision

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
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CONSULTANT IDENTIFICATION

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OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
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CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	ELEVENTH / TWELFTH FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	NEW FLOOR PLAN
SHEET NUMBER AND FILENAME	A108

SHEET

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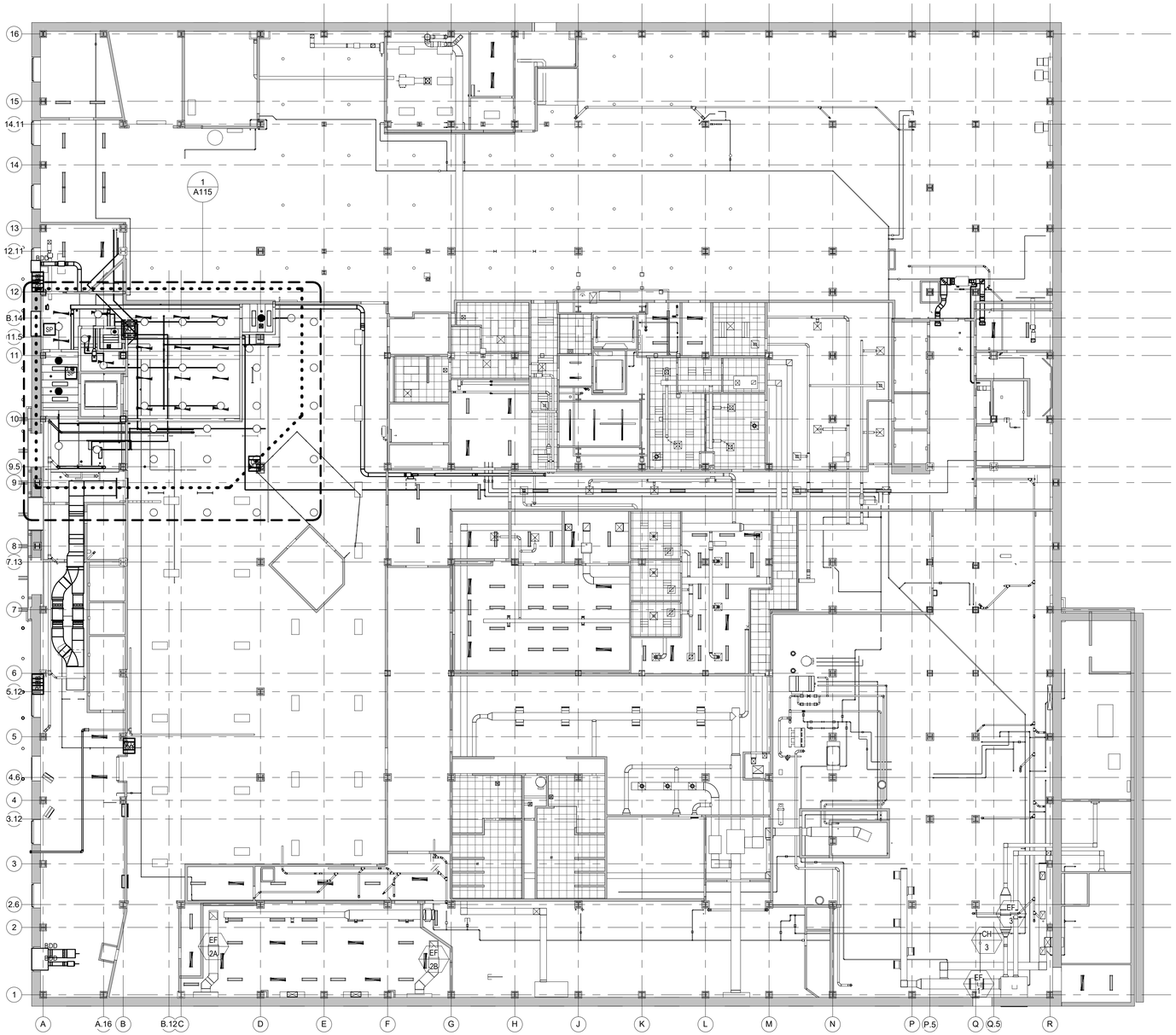


N

1 / A114 BASEMENT REFLECTED CEILING PLAN - NEW
1/16" = 1'-0"

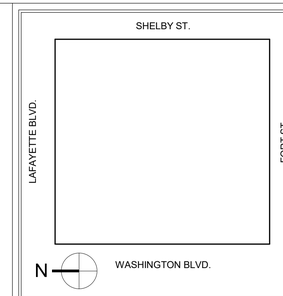
GENERAL NOTES

1. HISTORIC PLASTER CEILING IS PRESUMED TO BE PRESENT IN AREAS OF WORK UNO. TYP PLASTER CEILING IS 19'-0" A.F.F. (1ST FLOOR) AND 16'- 4" (2ND FLOOR). REUSE EXISTING OPENINGS IN PLASTER CEILING WHEN POSSIBLE. PROVIDE ADDITIONAL SUPPORTS AT ENDS OF CEILING AS REQUIRED TO SUPPORT CEILING. EXISTING PLASTER CEILINGS CONTAIN LEAD BASED PAINT. REFER TO HAZARDOUS MATERIALS DRAWINGS AND APPENDIX A PRE-ALTERATION ASSESSMENT IN THE SPECIFICATIONS.
2. RESTORE EXISTING TO REMAIN LIGHT FIXTURES, CEILING DIFFUSERS, LIFE SAFETY, SECURITY, AND AUDIO/VISUAL EQUIPMENT TO ORIGINAL LOCATION UPON COMPLETION OF WORK ABOVE CEILING.
3. PROVIDE AND INSTALL NEW CEILING GRID, HANGERS AND PANELS TO MATCH EXISTING IF DAMAGED.
4. WHERE EXISTING WALL PIPE STUB-OUTS, HOLES, AND DAMAGE WILL BE EXPOSED TO OCCUPIED SPACE, CUT BACK AND CAP PIPING (IF APPLICABLE AND THE WALL IS TO REMAIN), PATCH, REPAIR, AND REFINISH PLASTER WALL AS NECESSARY.
5. PROVIDE EXIT SIGNAGE AND EMERGENCY LIGHTING AS REQUIRED TO COMPLY WITH NFPA 101, LIFE SAFETY CODE 2021. REFER TO ELECTRICAL DRAWINGS.
6. CONTRACTOR TO REVIEW CEILING LAYOUT WITH ARCHITECT PRIOR TO INSTALLATION OF CEILING GRID.
7. CONTRACTOR TO PAINT CUT EDGES OF CEILING TILES.
8. CONTRACTOR TO PROVIDE CEILING SUPPORT FOR CAMERA LOCATIONS.

LEGEND

- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- (E) PLASTER/GYPSUM CEILING TO REMAIN
- (E) CEILING GRID TO REMAIN
- NEW PLASTER/GYPSUM CEILING
- NEW 2'X2' CEILING TILE AND GRID 8'-0" U..N.O.
- NEW GYPSUM CEILING ABOVE CEILING GRID (APPROX 10'-5" UNO)
- REPAIR PLASTER CEILING WHERE WALL TO DECK REMOVED
- PAINT EXPOSED PIPING AND CONDUIT WHITE. TO MATCH EXISTING COLOR.
- TRUSSBILT BARRIERDEK DETENTION METAL CEILING 9'-0" U.N.O.
- LINEAR CHAIN HUNG
- NEW SURFACE MOUNTED
- EXISTING LIGHT FIXTURE
- NEW 2' X 2' LIGHTING FIXTURE
- NEW 2' X 2' EMERGENCY LIGHTING FIXTURE
- NEW SUPPLY DIFFUSER
- NEW RETURN DIFFUSER
- NEW EXHAUST GRILLE
- EXISTING LIGHT FIXTURE TO REMAIN
- = SMOKE DETECTOR
- 1/2-INCH, QUICK RESPONSE, SEMI-RECESSED CHROME PENDENT SPRINKLER
- 1/2-INCH, QUICK RESPONSE, BRASS UPRIGHT SPRINKLER
- C = COMBINATION SPEAKER/STROBE APPLIANCE
- = SPEAKER ONLY
- = HEAT DETECTOR

KEY PLAN



GRAPHIC SCALE

1/16"=1'-0" 0 16' 32'

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

STAMP OR SEAL

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SCOTT W. GOODSELL
ARCHITECT
No. 1301047664
LICENSED ARCHITECT

OWNER IDENTIFICATION

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General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	BASEMENT FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	NEW CEILING PLAN
SHEET NUMBER AND FILENAME	A114

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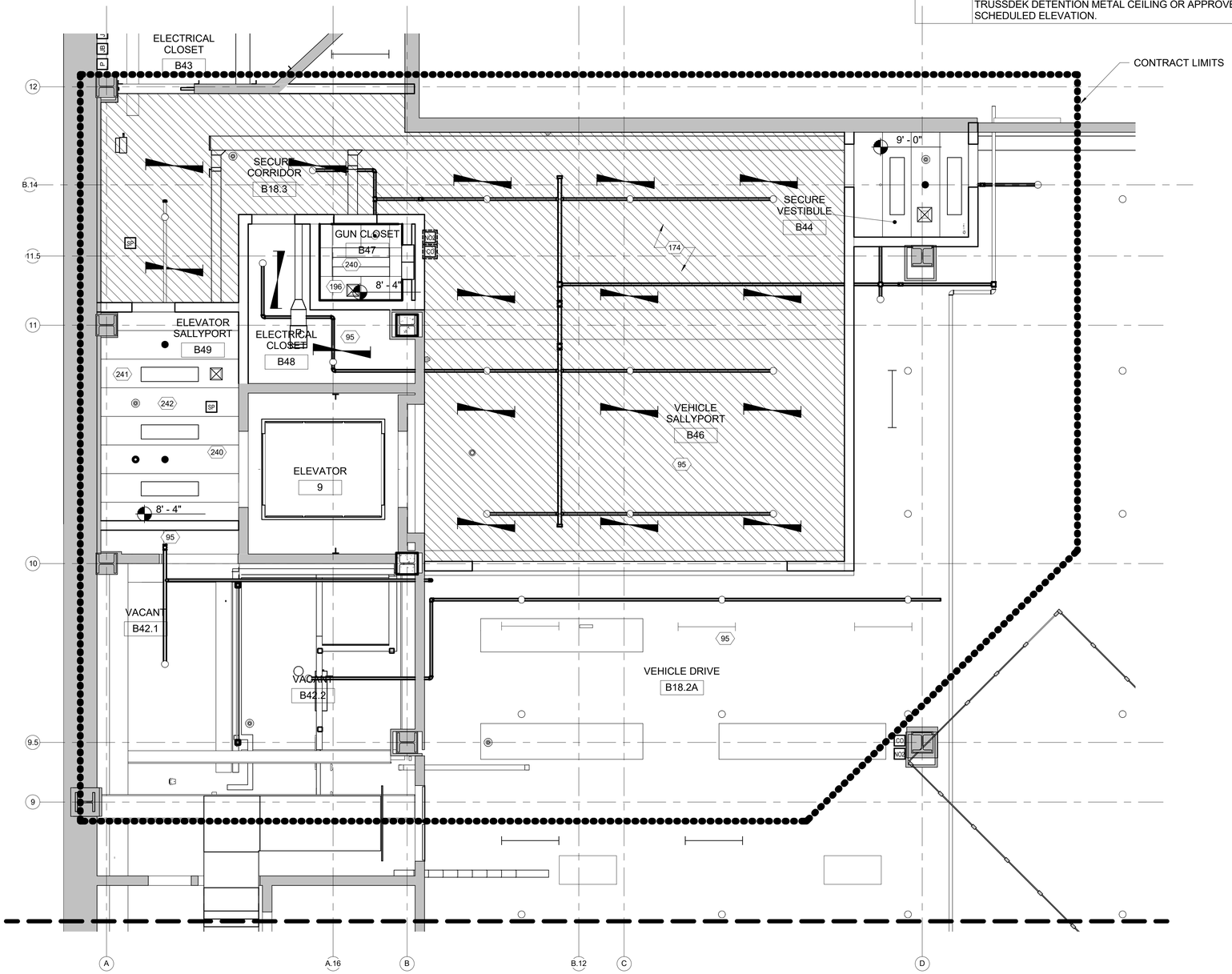
KEYED NOTES

NUMBER	DESCRIPTION
95	OPEN TO STRUCTURE ABOVE.
174	PAINT EXPOSED PIPING AND CONDUIT WHITE - TO MATCH EXISTING COLOR. EXISTING STRUCTURE AND DECK IS ALREADY PAINTED WHITE. DO NOT PAINT INSULATION, DUCTS, FIRE SPRINKLERS OR FIRE ALARM CONDUITS. FIRE SPRINKLERS AND FIRE ALARM CONDUITS SHALL BE RED.
196	EXISTING PIPING AND CONDUIT LOCATED THROUGH OUT THIS AREA. COORDINATE WITH NEW CONSTRUCTION.
240	INSTALL CEILING AS NOTED PER MINIMUM ELEVATION TAG. IF EXISTING AND NEW CONSTRUCTION ALLOWS, INSTALL CEILING HIGHER THAN MINIMUM ELEVATION.
241	PROVIDE STAINLESS STEEL WALL ANGLES TO SUPPORT NEW TRUSSBILT TRUSSDEK CEILING SYSTEM.
242	IN LIEU OF TRUSSBILT BARRIERDEK, PROVIDE TRUSSBILT TRUSSDEK DETENTION METAL CEILING OR APPROVED EQUAL AT SCHEDULED ELEVATION.



N

1 / A115 BASEMENT VEHICLE SALLYPORT REFLECTED CEILING PLAN - NEW
1/4" = 1'-0"

GENERAL NOTES

1. HISTORIC PLASTER CEILING IS PRESUMED TO BE PRESENT IN AREAS OF WORK UNO. TYP PLASTER CEILING IS 19'-0" A.F.F. (1ST FLOOR) AND 16'- 4" (2ND FLOOR). REUSE EXISTING OPENINGS IN PLASTER CEILING WHEN POSSIBLE. PROVIDE ADDITIONAL SUPPORTS AT ENDS OF CEILING AS REQUIRED TO SUPPORT CEILING. EXISTING PLASTER CEILINGS CONTAIN LEAD BASED PAINT. REFER TO HAZARDOUS MATERIALS DRAWINGS AND APPENDIX A PRE-ALTERATION ASSESSMENT IN THE SPECIFICATIONS.
2. RESTORE EXISTING TO REMAIN LIGHT FIXTURES, CEILING DIFFUSERS, LIFE SAFETY, SECURITY, AND AUDIO/VISUAL EQUIPMENT TO ORIGINAL LOCATION UPON COMPLETION OF WORK ABOVE CEILING.
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4. WHERE EXISTING WALL PIPE STUB-OUTS, HOLES, AND DAMAGE WILL BE EXPOSED TO OCCUPIED SPACE, CUT BACK AND CAP PIPING (IF APPLICABLE AND THE WALL IS TO REMAIN), PATCH, REPAIR, AND REFINISH PLASTER WALL AS NECESSARY.
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6. CONTRACTOR TO REVIEW CEILING LAYOUT WITH ARCHITECT PRIOR TO INSTALLATION OF CEILING GRID.
7. CONTRACTOR TO PAINT CUT EDGES OF CEILING TILES.
8. CONTRACTOR TO PROVIDE CEILING SUPPORT FOR CAMERA LOCATIONS.

LEGEND

- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- (E) PLASTER/GYPSUM CEILING TO REMAIN
- (E) CEILING GRID TO REMAIN
- NEW PLASTER/GYPSUM CEILING
- NEW 2'X2' CEILING TILE AND GRID 8'-0" U..N.O.
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- REPAIR PLASTER CEILING WHERE WALL TO DECK REMOVED
- PAINT EXPOSED PIPING AND CONDUIT WHITE. TO MATCH EXISTING COLOR.
- TRUSSBILT BARRIERDEK DETENTION METAL CEILING 9'-0" U.N.O.
- LINEAR CHAIN HUNG
- NEW SURFACE MOUNTED
- EXISTING LIGHT FIXTURE
- NEW 2' X 2' LIGHTING FIXTURE
- NEW 2' X 2' EMERGENCY LIGHTING FIXTURE
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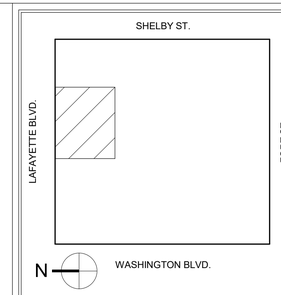

KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
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DESIGNER IDENTIFICATION

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OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	BASEMENT FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	NEW CEILING PLAN
SHEET NUMBER AND FILENAME	A115

SHEET

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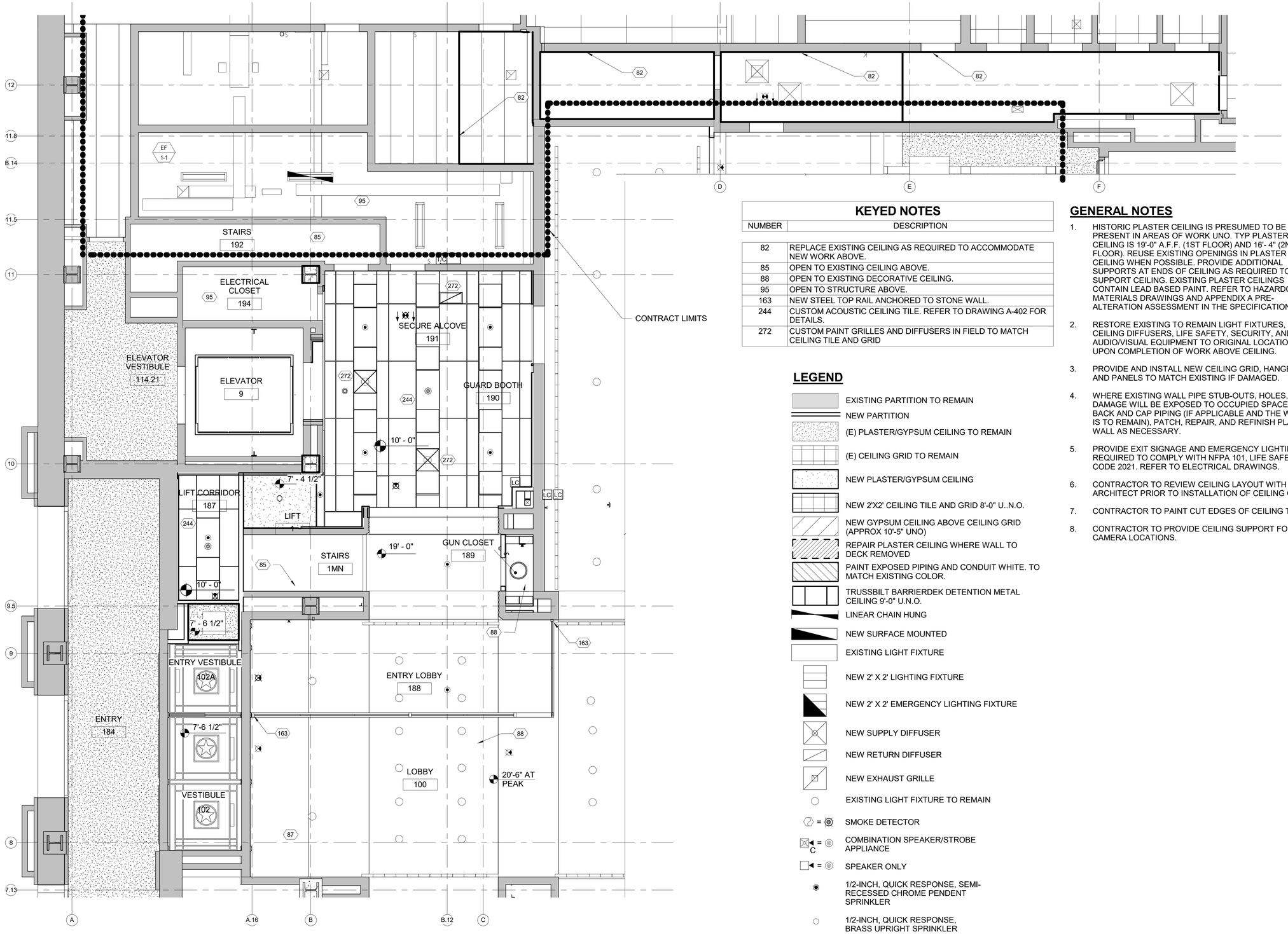

N

1 / A116 FIRST FLOOR LAFAYETTE BLVD. ENTRANCE REFLECTED CEILING PLAN - NEW
1/4" = 1'-0"

KEYED NOTES

NUMBER	DESCRIPTION
82	REPLACE EXISTING CEILING AS REQUIRED TO ACCOMMODATE NEW WORK ABOVE.
85	OPEN TO EXISTING CEILING ABOVE.
88	OPEN TO EXISTING DECORATIVE CEILING.
95	OPEN TO STRUCTURE ABOVE.
163	NEW STEEL TOP RAIL ANCHORED TO STONE WALL.
244	CUSTOM ACOUSTIC CEILING TILE. REFER TO DRAWING A-402 FOR DETAILS.
272	CUSTOM PAINT GRILLES AND DIFFUSERS IN FIELD TO MATCH CEILING TILE AND GRID

LEGEND

- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- (E) PLASTER/GYPSUM CEILING TO REMAIN
- (E) CEILING GRID TO REMAIN
- NEW PLASTER/GYPSUM CEILING
- NEW 2'X2' CEILING TILE AND GRID 8'-0" U..N.O.
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- LINEAR CHAIN HUNG
- NEW SURFACE MOUNTED
- EXISTING LIGHT FIXTURE
- NEW 2' X 2' LIGHTING FIXTURE
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- 1/2-INCH, QUICK RESPONSE, BRASS UPRIGHT SPRINKLER

GENERAL NOTES

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3. PROVIDE AND INSTALL NEW CEILING GRID, HANGERS AND PANELS TO MATCH EXISTING IF DAMAGED.
4. WHERE EXISTING WALL PIPE STUB-OUTS, HOLES, AND DAMAGE WILL BE EXPOSED TO OCCUPIED SPACE, CUT BACK AND CAP PIPING (IF APPLICABLE AND THE WALL IS TO REMAIN), PATCH, REPAIR, AND REFINISH PLASTER WALL AS NECESSARY.
5. PROVIDE EXIT SIGNAGE AND EMERGENCY LIGHTING AS REQUIRED TO COMPLY WITH NFPA 101, LIFE SAFETY CODE 2021. REFER TO ELECTRICAL DRAWINGS.
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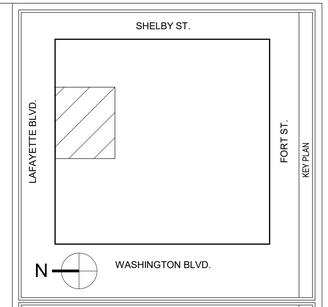

KEY PLAN

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

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BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	NEW CEILING PLAN
SHEET NUMBER AND FILENAME	A116

SHEET

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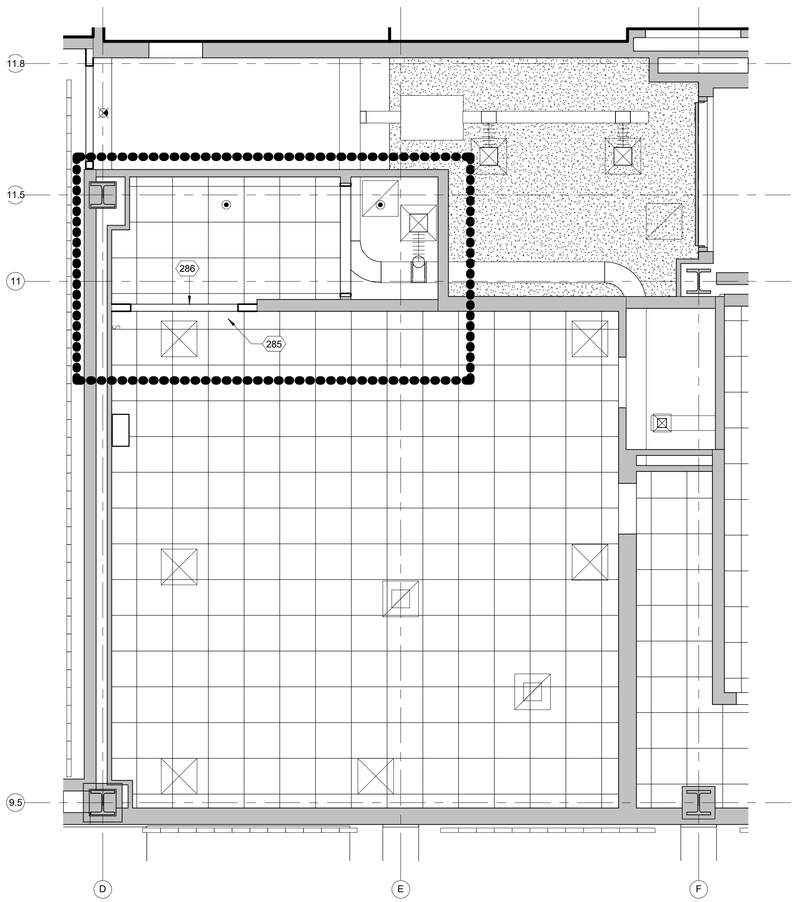


N

1 / A117 FIRST FLOOR COMMAND AND CONTROL CENTER - REFLECTED CEILING PLAN - NEW
1/4" = 1'-0"

KEYED NOTES

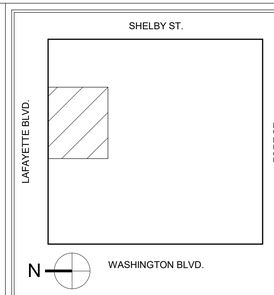
NUMBER	DESCRIPTION
285	REPLACE CEILING TILE WHERE FIRE ALARM DEVICE IS REMOVED.
286	CONSTRUCT NEW WALL TO (E) LAY-IN CEILING APPROX. 9'-0" AFF. FASTEN TO GRID AS REQUIRED.

GENERAL NOTES

1. HISTORIC PLASTER CEILING IS PRESUMED TO BE PRESENT IN AREAS OF WORK UNO. TYP PLASTER CEILING IS 19'-0" A.F.F. (1ST FLOOR) AND 16'- 4" (2ND FLOOR). REUSE EXISTING OPENINGS IN PLASTER CEILING WHEN POSSIBLE. PROVIDE ADDITIONAL SUPPORTS AT ENDS OF CEILING AS REQUIRED TO SUPPORT CEILING. EXISTING PLASTER CEILINGS CONTAIN LEAD BASED PAINT. REFER TO HAZARDOUS MATERIALS DRAWINGS AND APPENDIX A PRE-ALTERATION ASSESSMENT IN THE SPECIFICATIONS.
2. RESTORE EXISTING TO REMAIN LIGHT FIXTURES, CEILING DIFFUSERS, LIFE SAFETY, SECURITY, AND AUDIO/VISUAL EQUIPMENT TO ORIGINAL LOCATION UPON COMPLETION OF WORK ABOVE CEILING.
3. PROVIDE AND INSTALL NEW CEILING GRID, HANGERS AND PANELS TO MATCH EXISTING IF DAMAGED.
4. WHERE EXISTING WALL PIPE STUB-OUTS, HOLES, AND DAMAGE WILL BE EXPOSED TO OCCUPIED SPACE, CUT BACK AND CAP PIPING (IF APPLICABLE AND THE WALL IS TO REMAIN), PATCH, REPAIR, AND REFINISH PLASTER WALL AS NECESSARY.
5. PROVIDE EXIT SIGNAGE AND EMERGENCY LIGHTING AS REQUIRED TO COMPLY WITH NFPA 101, LIFE SAFETY CODE 2021. REFER TO ELECTRICAL DRAWINGS.
6. CONTRACTOR TO REVIEW CEILING LAYOUT WITH ARCHITECT PRIOR TO INSTALLATION OF CEILING GRID.
7. CONTRACTOR TO PAINT CUT EDGES OF CEILING TILES.
8. CONTRACTOR TO PROVIDE CEILING SUPPORT FOR CAMERA LOCATIONS.

LEGEND

- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- (E) PLASTER/GYPSUM CEILING TO REMAIN
- (E) CEILING GRID TO REMAIN
- NEW PLASTER/GYPSUM CEILING
- NEW 2'X2' CEILING TILE AND GRID 8'-0" U..N.O.
- NEW GYPSUM CEILING ABOVE CEILING GRID (APPROX 10'-5" UNO)
- REPAIR PLASTER CEILING WHERE WALL TO DECK REMOVED
- PAINT EXPOSED PIPING AND CONDUIT WHITE. TO MATCH EXISTING COLOR.
- TRUSSBILT BARRIERDEK DETENTION METAL CEILING 9'-0" U.N.O.
- LINEAR CHAIN HUNG
- NEW SURFACE MOUNTED
- EXISTING LIGHT FIXTURE
- NEW 2' X 2' LIGHTING FIXTURE
- NEW 2' X 2' EMERGENCY LIGHTING FIXTURE
- NEW SUPPLY DIFFUSER
- NEW RETURN DIFFUSER
- NEW EXHAUST GRILLE
- EXISTING LIGHT FIXTURE TO REMAIN
- = SMOKE DETECTOR
- C = COMBINATION SPEAKER/STROBE APPLIANCE
- = SPEAKER ONLY
- 1/2-INCH, QUICK RESPONSE, SEMI-RECESSED CHROME PENDENT SPRINKLER
- 1/2-INCH, QUICK RESPONSE, BRASS UPRIGHT SPRINKLER



KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

CONSULTANT IDENTIFICATION

STAMP OR SEAL

General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	NEW CEILING PLAN
SHEET NUMBER AND FILENAME	A117

SHEET

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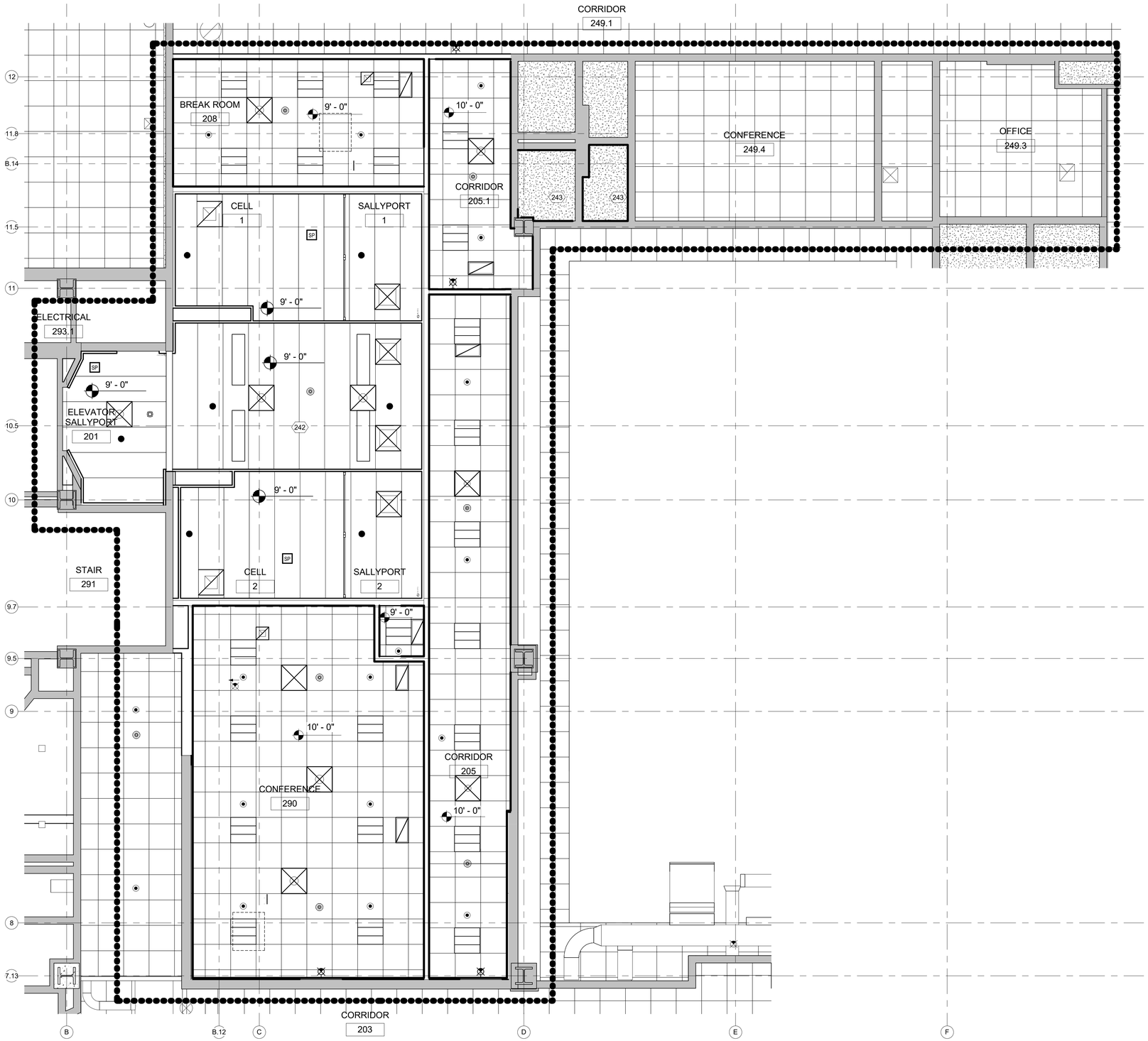

N

1 A118 SECOND FLOOR OPTION 1 REFLECTED CEILING PLAN - NEW
1/4" = 1'-0"

GENERAL NOTES

1. HISTORIC PLASTER CEILING IS PRESUMED TO BE PRESENT IN AREAS OF WORK UNO. TYP PLASTER CEILING IS 19'-0" A.F.F. (1ST FLOOR) AND 16'- 4" (2ND FLOOR). REUSE EXISTING OPENINGS IN PLASTER CEILING WHEN POSSIBLE. PROVIDE ADDITIONAL SUPPORTS AT ENDS OF CEILING AS REQUIRED TO SUPPORT CEILING. EXISTING PLASTER CEILINGS CONTAIN LEAD BASED PAINT. REFER TO HAZARDOUS MATERIALS DRAWINGS AND APPENDIX A PRE-ALTERATION ASSESSMENT IN THE SPECIFICATIONS.
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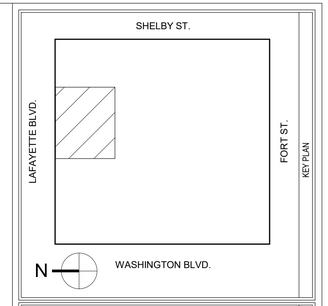
3. PROVIDE AND INSTALL NEW CEILING GRID, HANGERS AND PANELS TO MATCH EXISTING IF DAMAGED.
4. WHERE EXISTING WALL PIPE STUB-OUTS, HOLES, AND DAMAGE WILL BE EXPOSED TO OCCUPIED SPACE, CUT BACK AND CAP PIPING (IF APPLICABLE AND THE WALL IS TO REMAIN), PATCH, REPAIR, AND REFINISH PLASTER WALL AS NECESSARY.
5. PROVIDE EXIT SIGNAGE AND EMERGENCY LIGHTING AS REQUIRED TO COMPLY WITH NFPA 101, LIFE SAFETY CODE 2021. REFER TO ELECTRICAL DRAWINGS.
6. CONTRACTOR TO REVIEW CEILING LAYOUT WITH ARCHITECT PRIOR TO INSTALLATION OF CEILING GRID.
7. CONTRACTOR TO PAINT CUT EDGES OF CEILING TILES.
8. CONTRACTOR TO PROVIDE CEILING SUPPORT FOR CAMERA LOCATIONS.

LEGEND

- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- (E) PLASTER/GYPSUM CEILING TO REMAIN
- (E) CEILING GRID TO REMAIN
- NEW PLASTER/GYPSUM CEILING
- NEW 2'X2' CEILING TILE AND GRID 8'-0" U..N.O.
- NEW GYPSUM CEILING ABOVE CEILING GRID (APPROX 10'-5" UNO)
- REPAIR PLASTER CEILING WHERE WALL TO DECK REMOVED
- PAINT EXPOSED PIPING AND CONDUIT WHITE. TO MATCH EXISTING COLOR.
- TRUSSBILT BARRIERDEK DETENTION METAL CEILING 9'-0" U.N.O.
- LINEAR CHAIN HUNG
- NEW SURFACE MOUNTED
- EXISTING LIGHT FIXTURE
- NEW 2' X 2' LIGHTING FIXTURE
- NEW 2' X 2' EMERGENCY LIGHTING FIXTURE
- NEW SUPPLY DIFFUSER
- NEW RETURN DIFFUSER
- NEW EXHAUST GRILLE
- EXISTING LIGHT FIXTURE TO REMAIN
- = SMOKE DETECTOR
- C = COMBINATION SPEAKER/STROBE APPLIANCE
- = SPEAKER ONLY
- 1/2-INCH, QUICK RESPONSE, INSTITUTIONAL FLUSH SIDEWALL SPRINKLER
- 1/2-INCH, QUICK RESPONSE, INSTITUTIONAL FLUSH PENDENT SPRINKLER
- 1/2-INCH, QUICK RESPONSE, SEMI-RECESSED CHROME PENDENT SPRINKLER

KEYED NOTES

NUMBER	DESCRIPTION
242	IN LIEU OF TRUSSBILT BARRIERDEK, PROVIDE TRUSSBILT TRUSSDEK DETENTION METAL CEILING OR APPROVED EQUAL AT SCHEDULED ELEVATION.
243	REINSTALL SALVAGED DEVICES WITHIN NEW CEILING.



1/4"=1'-0" 0 4' 8'
GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
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BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	SECOND FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	NEW CEILING PLAN
SHEET NUMBER AND FILENAME	A118

SHEET

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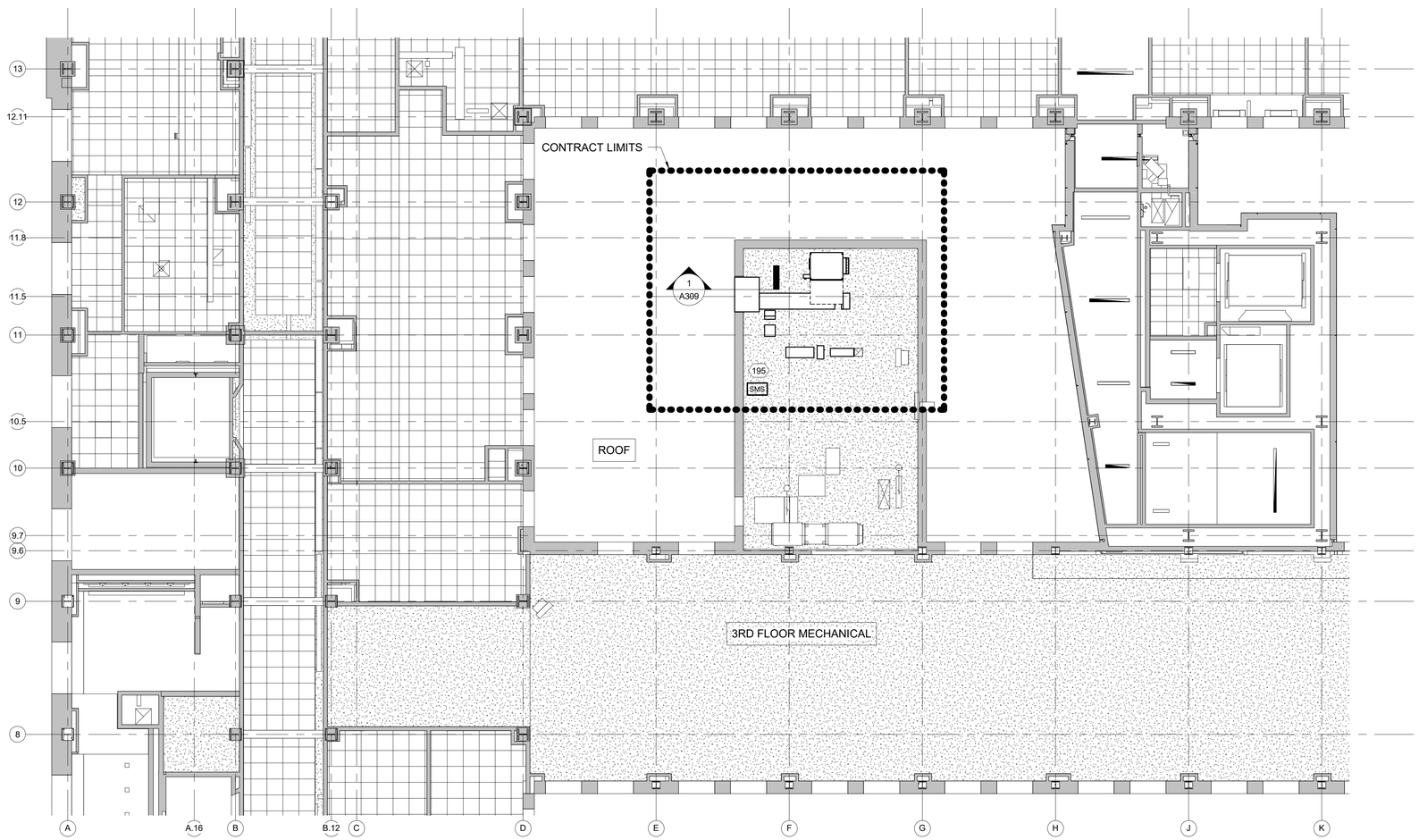

N

1 / A119 THIRD FLOOR - REFLECTED CEILING PLAN - NEW
1/8" = 1'-0"

GENERAL NOTES

1. HISTORIC PLASTER CEILING IS PRESUMED TO BE PRESENT IN AREAS OF WORK UNO. TYP PLASTER CEILING IS 19'-0" A.F.F. (1ST FLOOR) AND 16'- 4" (2ND FLOOR). REUSE EXISTING OPENINGS IN PLASTER CEILING WHEN POSSIBLE. PROVIDE ADDITIONAL SUPPORTS AT ENDS OF CEILING AS REQUIRED TO SUPPORT CEILING. EXISTING PLASTER CEILINGS CONTAIN LEAD BASED PAINT. REFER TO HAZARDOUS MATERIALS DRAWINGS AND APPENDIX A PRE-ALTERATION ASSESSMENT IN THE SPECIFICATIONS.
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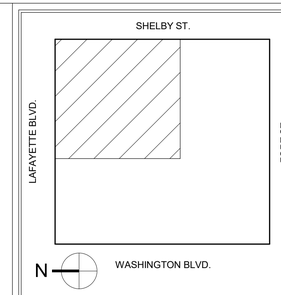
- PAINT EXPOSED PIPING AND CONDUIT WHITE. TO MATCH EXISTING COLOR.
- NEW 2' X 2' LIGHTING FIXTURE
- NEW 2' X 2' EMERGENCY LIGHTING FIXTURE
- NEW SUPPLY DIFFUSER
- NEW RETURN DIFFUSER
- NEW EXHAUST GRILLE

KEYED NOTES

NUMBER	DESCRIPTION
195	INSTALL AERIAL MOISTURE SENSOR FOR SNOW MELT SYSTEM FOR RAMP AS REQUIRED BY MANUFACTURER. ROUTE AND LABEL CABLING THROUGH BUILDING ON BRIDAL RINGS.



KEY PLAN

1/8"=1'-0" 0 8' 16'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION
1	02/15/2023	100% Revision

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
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248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

CONSULTANT IDENTIFICATION

STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047664
LICENSED ARCHITECT

STAMP OR SEAL

GSA
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Public Buildings Service
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John C. Kluczynski Federal Building
230 South Dearborn St.
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ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	THIRD FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	NEW CEILING PLAN
SHEET NUMBER AND FILENAME	A119

SHEET

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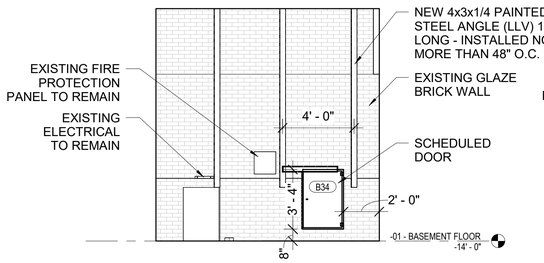
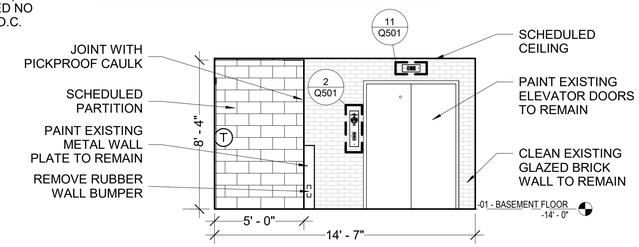
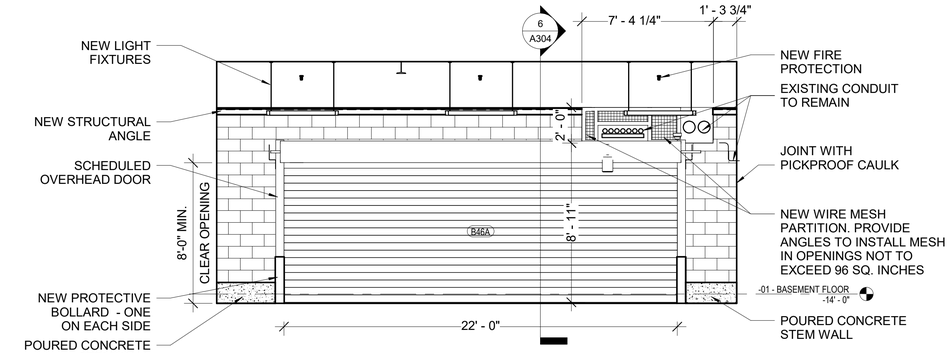
FOR ALL SEALANT THROUGHOUT PRISONER AREAS, INCLUDING BUT NOT LIMITED TO SALLYPORTS, CELLS AND VESTIBULES, THE SEALANT SHALL BE PICKPROOF IN COMPLIANCE WITH USMS PUB 64.



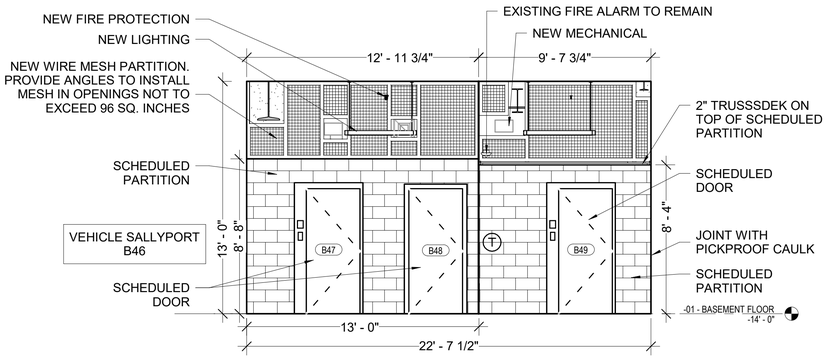
11 A201 BASEMENT SALLYPORT ELECTRICAL CLOSET B43
1/4" = 1'-0"



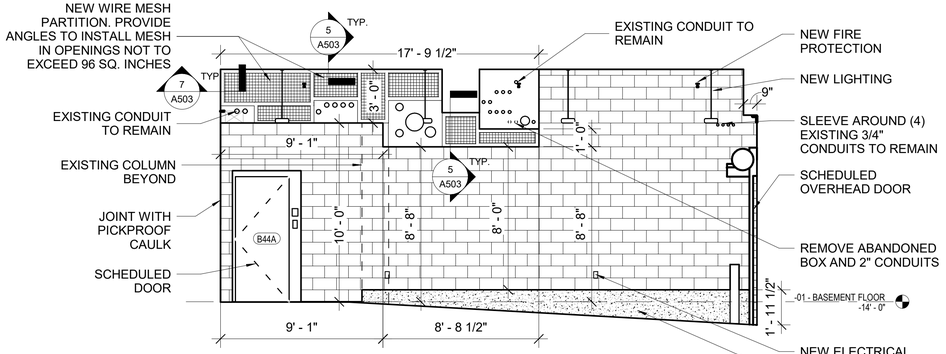
8 A201 ELEVATOR SALLYPORT B49 SOUTH ELEVATION - NEW
1/4" = 1'-0"



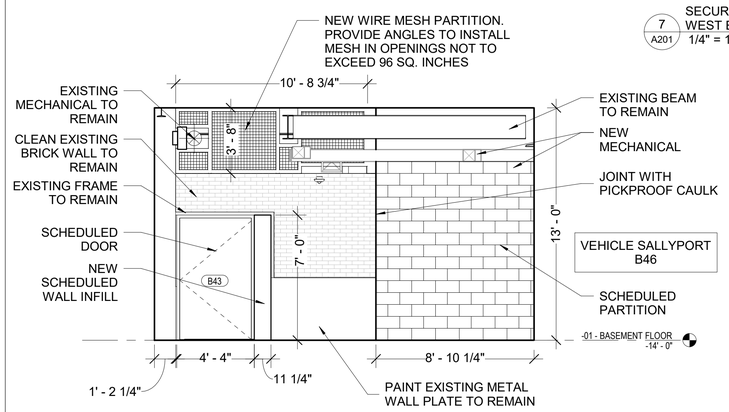
4 A201 VEHICLE SALLYPORT B46 WEST ELEVATION - NEW
1/4" = 1'-0"



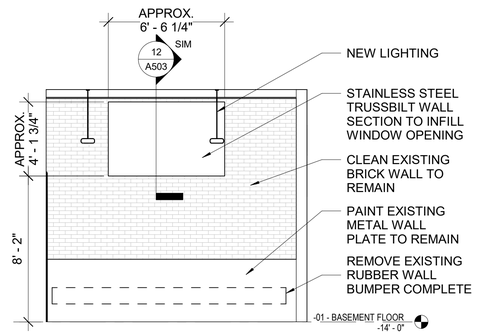
7 A201 SECURE CORRIDOR B18.3 WEST ELEVATION - NEW
1/4" = 1'-0"



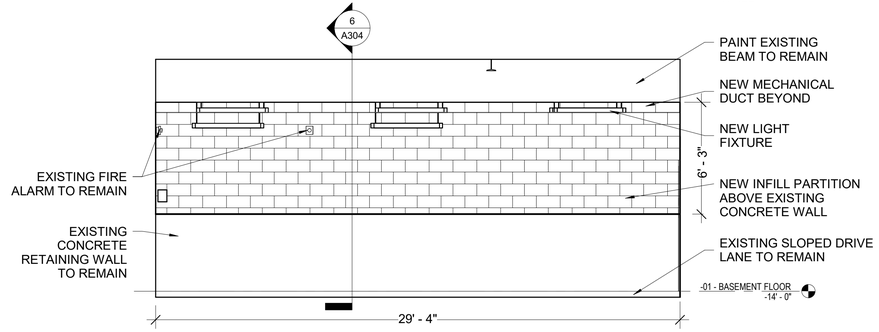
3 A201 VEHICLE SALLYPORT B46 SOUTH ELEVATION - NEW
1/4" = 1'-0"



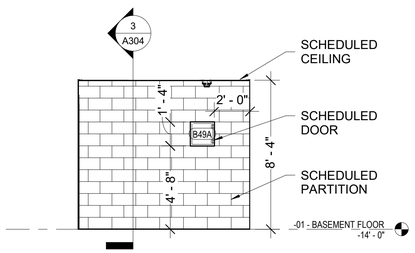
10 A201 SECURE CORRIDOR B18.3 EAST ELEVATION - NEW
1/4" = 1'-0"



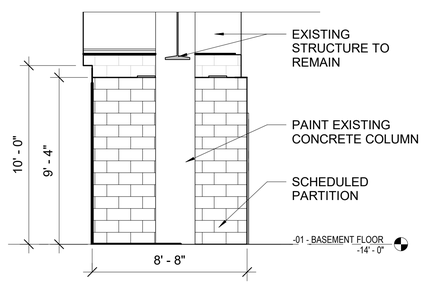
6 A201 SECURE CORRIDOR B18.3 NORTH ELEVATION - NEW
1/4" = 1'-0"



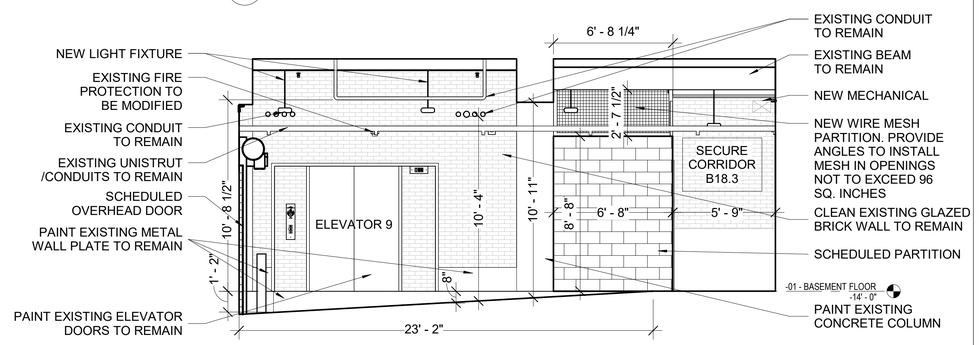
2 A201 VEHICLE SALLYPORT B46 EAST ELEVATION - NEW
1/4" = 1'-0"



9 A201 ELEVATOR SALLYPORT B49 WEST ELEVATION - NEW
1/4" = 1'-0"



5 A201 VEHICLE DRIVE B18.2B EAST ELEVATION - NEW
1/4" = 1'-0"



1 A201 VEHICLE SALLYPORT B46 NORTH ELEVATION - NEW
1/4" = 1'-0"

KEY PLAN

GRAPHIC SCALE

1/4"=1'-0" 0 4" 8"

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
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BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	BASEMENT FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	ELEVATION
SHEET NUMBER AND FILENAME	A201

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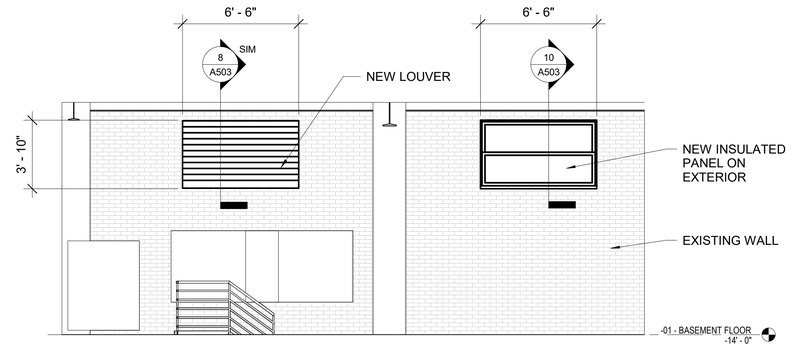
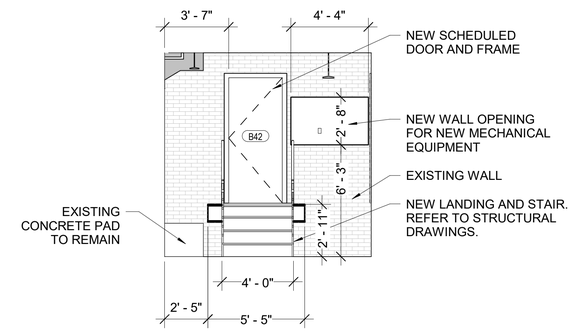
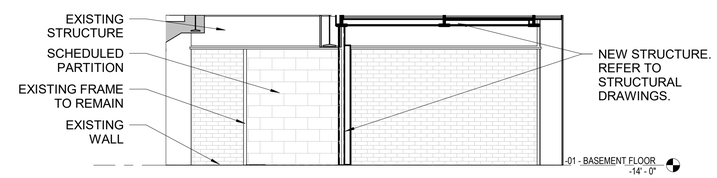


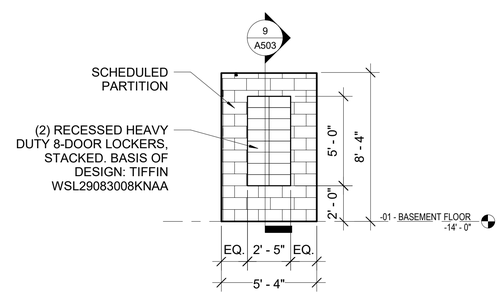
4 A202 BASEMENT ELEVATION LOUVERS - NEW
1/4" = 1'-0"



3 A202 MECHANICAL ROOM 293.2 EAST ELEVATION - NEW
1/4" = 1'-0"



2 A202 VACANT ROOM B42.1 EAST ELEVATION - NEW
1/4" = 1'-0"



1 A202 GUN LOCKER B47 SOUTH ELEVATION - NEW
1/4" = 1'-0"

KEY PLAN

GRAPHIC SCALE

1/4"=1'-0" 0 4' 8'

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

STAMP OR SEAL

STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047664
LICENSED ARCHITECT

OWNER IDENTIFICATION

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	BASEMENT FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	ELEVATIONS
SHEET NUMBER AND FILENAME	A202

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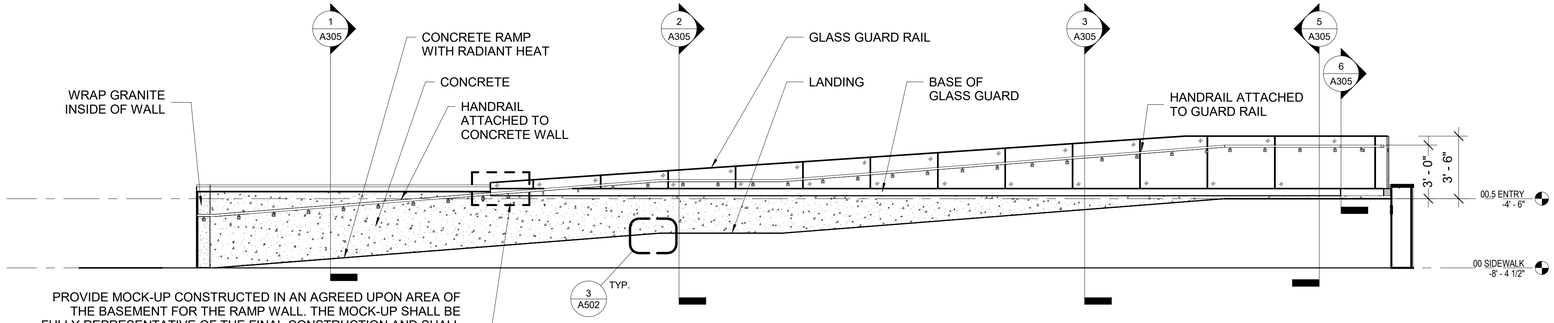
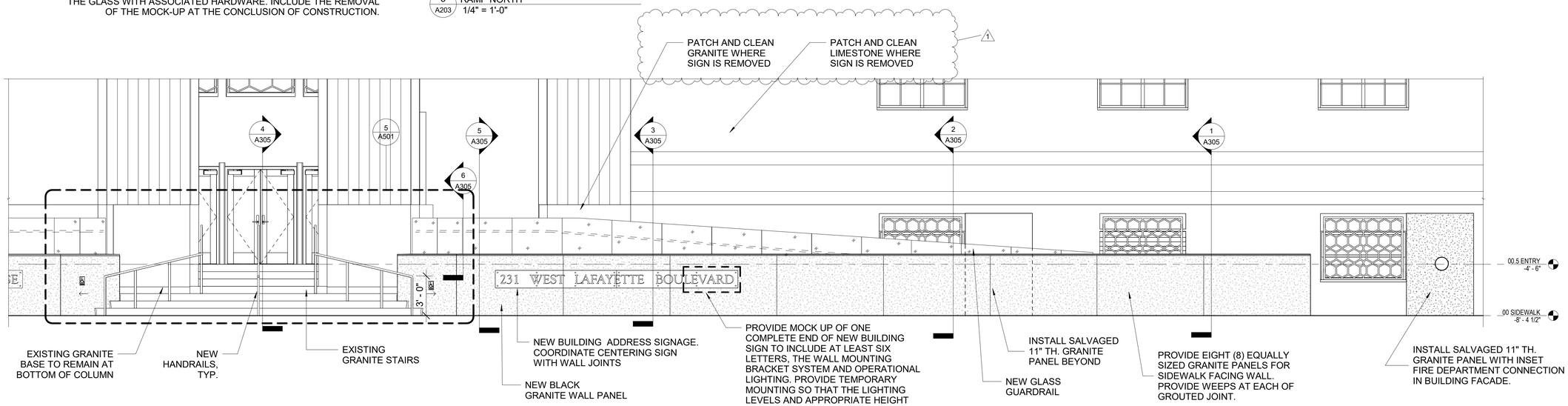
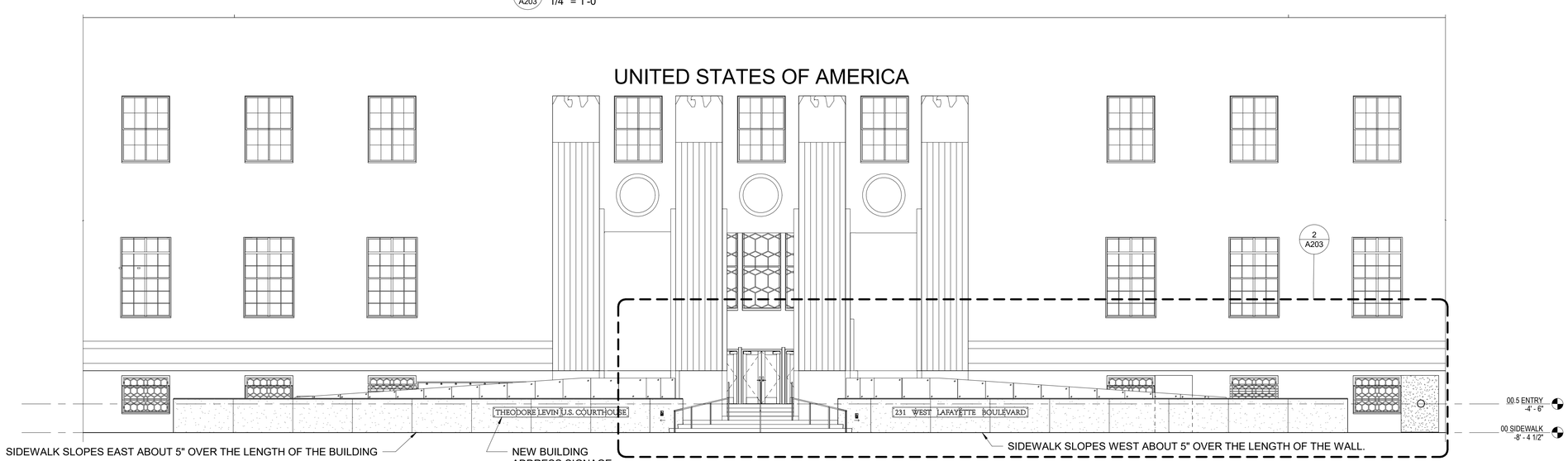


PROVIDE MOCK-UP CONSTRUCTED IN AN AGREED UPON AREA OF THE BASEMENT FOR THE RAMP WALL. THE MOCK-UP SHALL BE FULLY REPRESENTATIVE OF THE FINAL CONSTRUCTION AND SHALL INCLUDE AT LEAST ONE VERTICAL FOOT OF THE CAST CONCRETE WALL WITH STONE CLADDING AND CAP; ENOUGH HANDRAIL TO INCLUDE TWO BRACKETS; ONE FASTENED INTO THE WALL AND ONE FASTENED INTO THE GLASS; AND AT LEAST ONE VERTICAL FOOT OF THE GLASS WITH ASSOCIATED HARDWARE. INCLUDE THE REMOVAL OF THE MOCK-UP AT THE CONCLUSION OF CONSTRUCTION.

3 A203 LAFAYETTE BLVD. EXTERIOR RAMP NORTH
1/4" = 1'-0"



2 A203 LAFAYETTE BLVD. EXTERIOR RAMP ENLARGED _2
1/4" = 1'-0"



1 A203 LAFAYETTE BLVD. EXTERIOR RAMP ENLARGED
1/8" = 1'-0"

KEY PLAN

GRAPHIC SCALE

1/8"=1'-0" 0 8' 16'

REVISION BLOCK

MARK	DATE	DESCRIPTION
1	02/15/2023	100% Revision

CONTRACT

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DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

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GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	RAMP FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	ELEVATION
SHEET NUMBER AND FILENAME	A203

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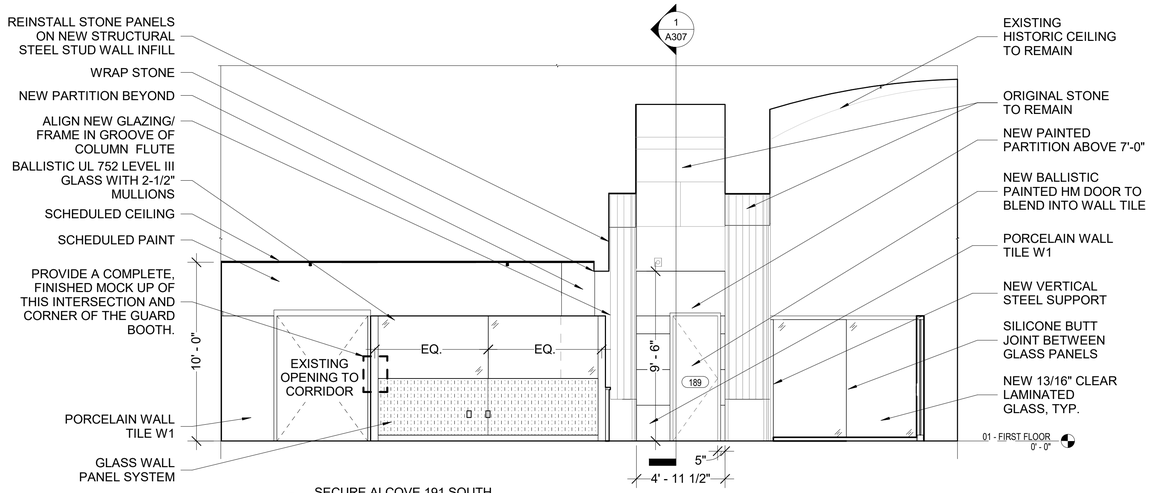
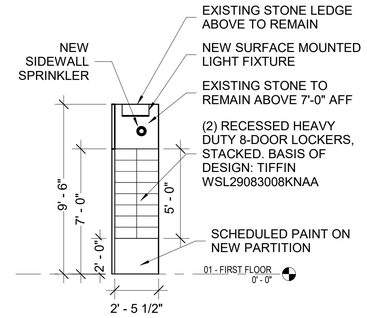
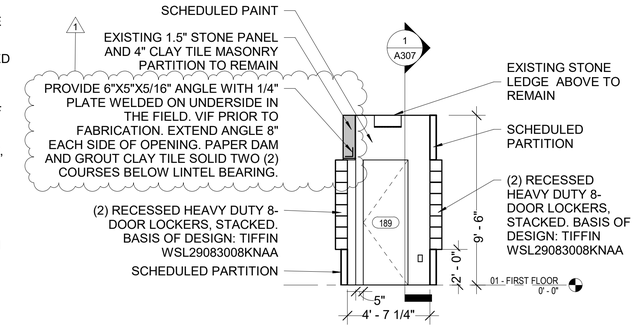


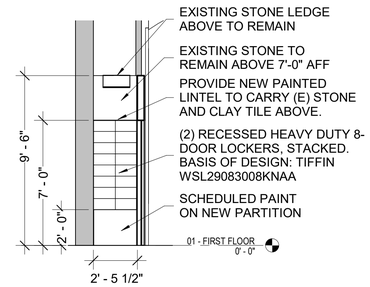
11 A204 SECURE ALCOVE 191 SOUTH ELEVATION - NEW 1/4" = 1'-0"



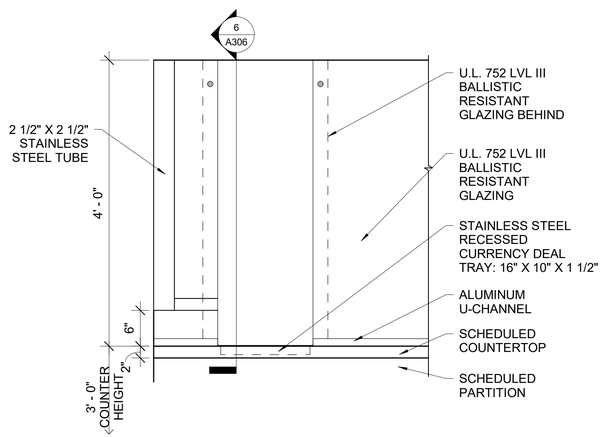
7 A204 GUN CLOSET 189 WEST ELEVATION - NEW 1/4" = 1'-0"



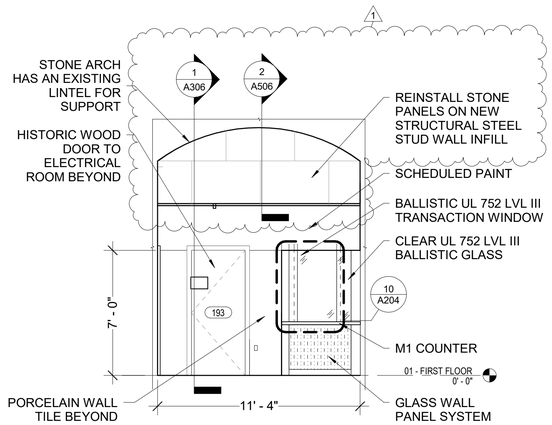
3 A204 GUN CLOSET 189 NORTH ELEVATION - NEW 1/4" = 1'-0"



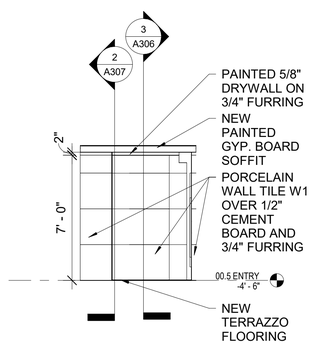
6 A204 GUN CLOSET 189 EAST ELEVATION - NEW 1/4" = 1'-0"



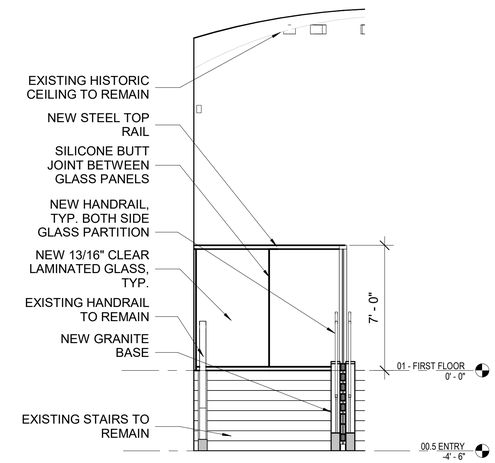
10 A204 TRANSACTION WINDOW ELEVATION DETAIL 1" = 1'-0"



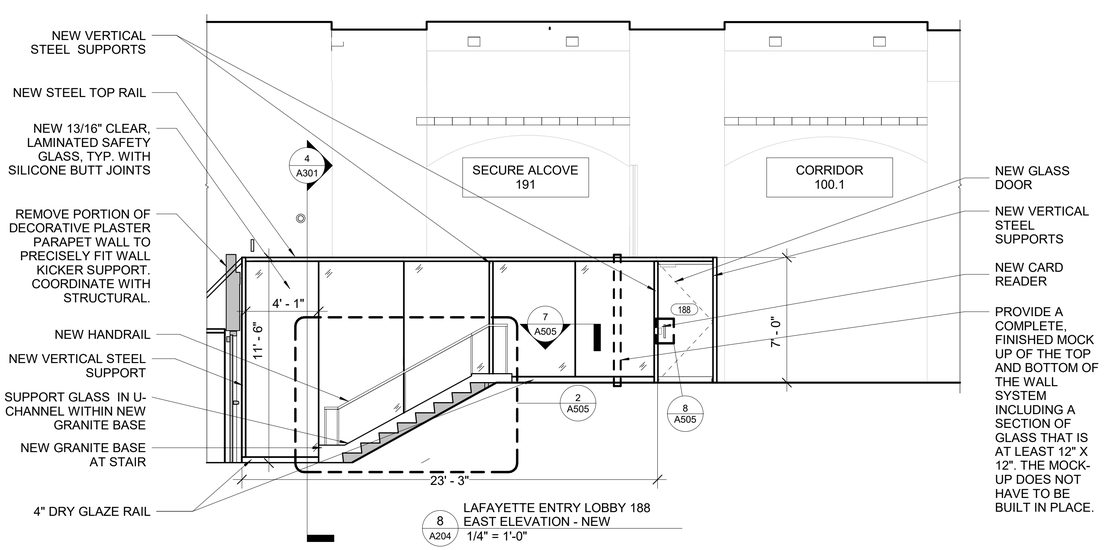
9 A204 ENTRY LOBBY 188 EAST ELEVATION - NEW 1/4" = 1'-0"



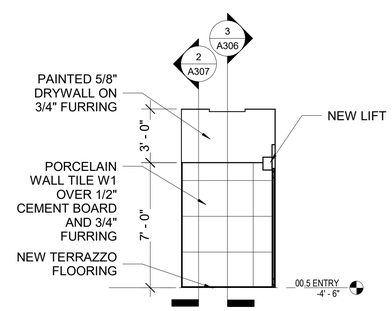
5 A204 LAFAYETTE ENTRY EAST ELEVATION - NEW 1/4" = 1'-0"



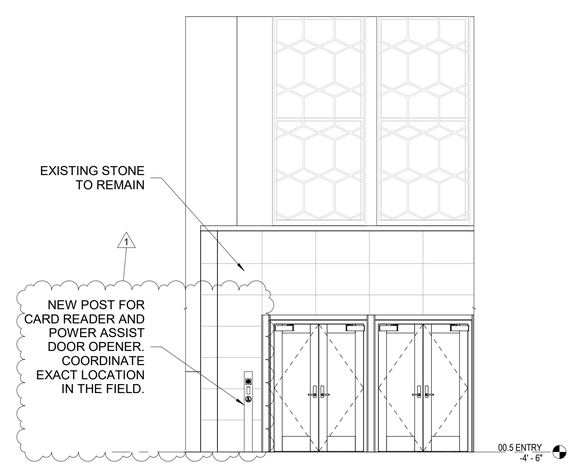
2 A204 LAFAYETTE ENTRY LOBBY 188 SOUTH ELEVATION - NEW 1/4" = 1'-0"



8 A204 LAFAYETTE ENTRY LOBBY 188 EAST ELEVATION - NEW 1/4" = 1'-0"



4 A204 LAFAYETTE LIFT CORRIDOR 187 EAST ELEVATION - NEW 1/4" = 1'-0"



1 A204 LAFAYETTE ENTRANCE SOUTH ELEVATION - NEW 1/4" = 1'-0"

KEY PLAN

GRAPHIC SCALE

1/4"=1'-0" 0 4" 8"

REVISION BLOCK

MARK	DATE	DESCRIPTION
1	02/15/2023	100% Revision

CONTRACT

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DELIVER ORDER NO.	47PF0021F0822
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BUILDING

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ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	ELEVATION
SHEET NUMBER AND FILENAME	A204

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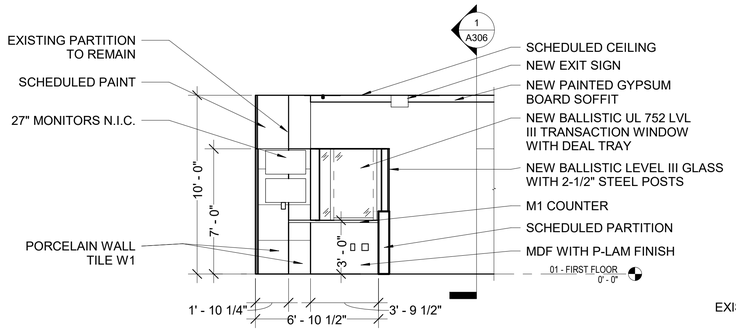
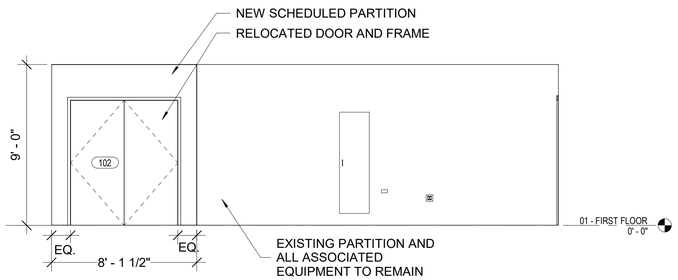
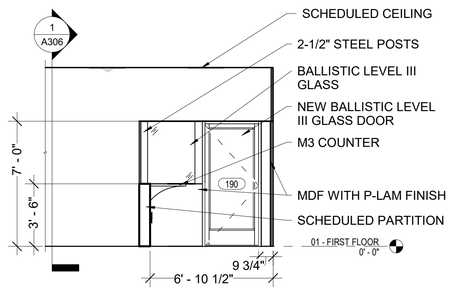


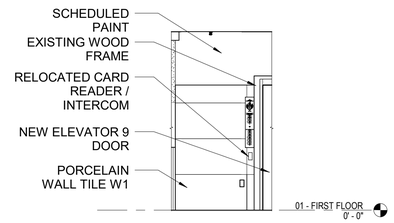
8 A205 LAFAYETTE GUARD BOOTH 190 WEST ELEVATION - NEW
1/4" = 1'-0"



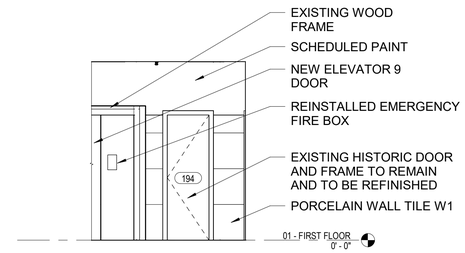
11 A205 LAFAYETTE COMMAND AND CONTROL CENTER 102.4 EAST ELEVATION - NEW - OPTION 1
1/4" = 1'-0"



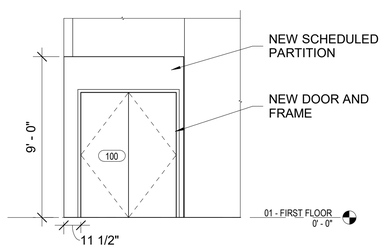
7 A205 LAFAYETTE GUARD BOOTH 190 EAST ELEVATION - NEW
1/4" = 1'-0"



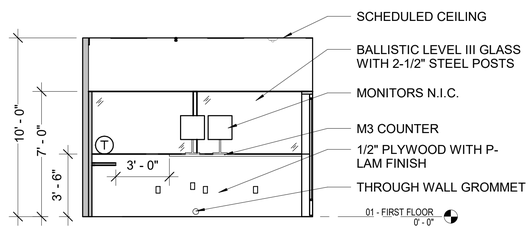
4 A205 LAFAYETTE SECURE ALCOVE 191 NORTH ENLARGED ELEVATION - NEW -
1/4" = 1'-0"



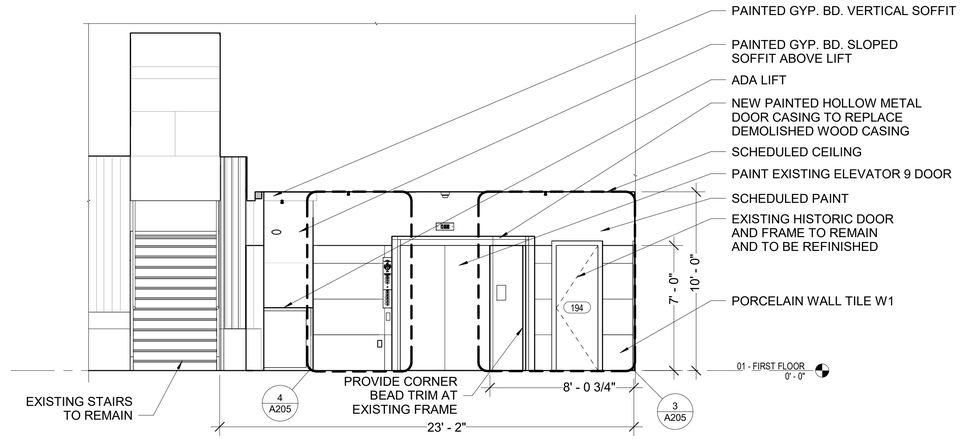
3 A205 LAFAYETTE SECURE ALCOVE 191 NORTH ENLARGED ELEVATION - NEW
1/4" = 1'-0"



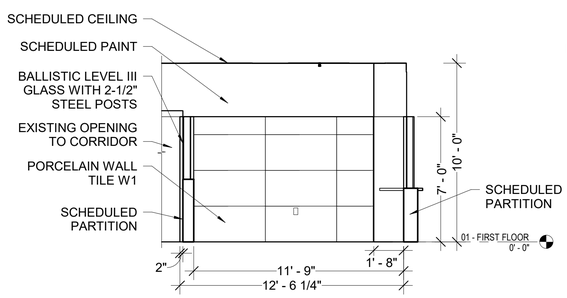
10 A205 LAFAYETTE CORRIDOR 100.1 SOUTH ELEVATION - NEW - OPTION 1
1/4" = 1'-0"



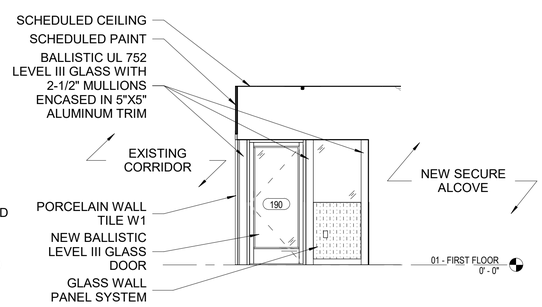
6 A205 LAFAYETTE GUARD BOOTH 190 NORTH ELEVATION - NEW
1/4" = 1'-0"



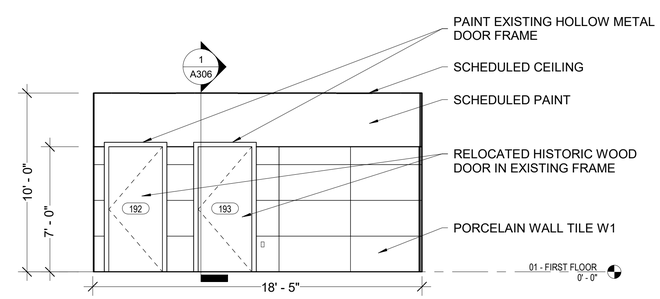
2 A205 SECURE ALCOVE 191 NORTH ELEVATION - NEW
1/4" = 1'-0"



9 A205 LAFAYETTE GUARD BOOTH 190 SOUTH ELEVATION - NEW
1/4" = 1'-0"



5 A205 LAFAYETTE SECURE ALCOVE 191 WEST ENLARGED ELEVATION - NEW
1/4" = 1'-0"



1 A205 SECURE ALCOVE 191 EAST ELEVATION - NEW
1/4" = 1'-0"

KEY PLAN

GRAPHIC SCALE

1/4"=1'-0" 0 4" 8"

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
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CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	ELEVATION
SHEET NUMBER AND FILENAME	A205

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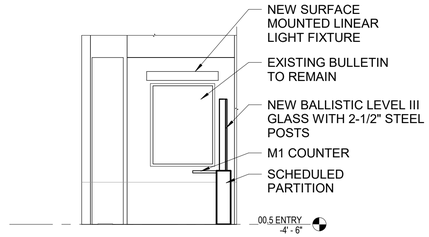
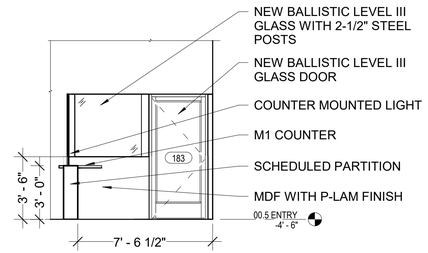
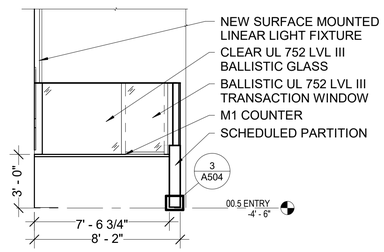


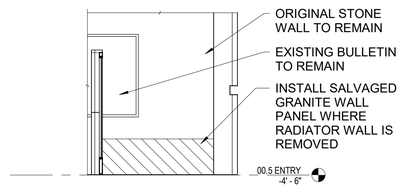
7 A206 FORT STREET GUARD BOOTH 183 SOUTH ELEVATION - NEW
1/4" = 1'-0"



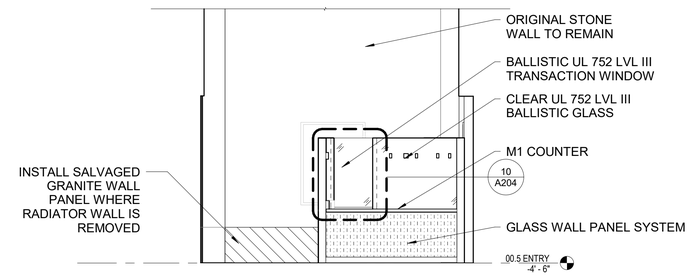
5 A206 FORT STREET GUARD BOOTH 183 NORTH ELEVATION - NEW
1/4" = 1'-0"



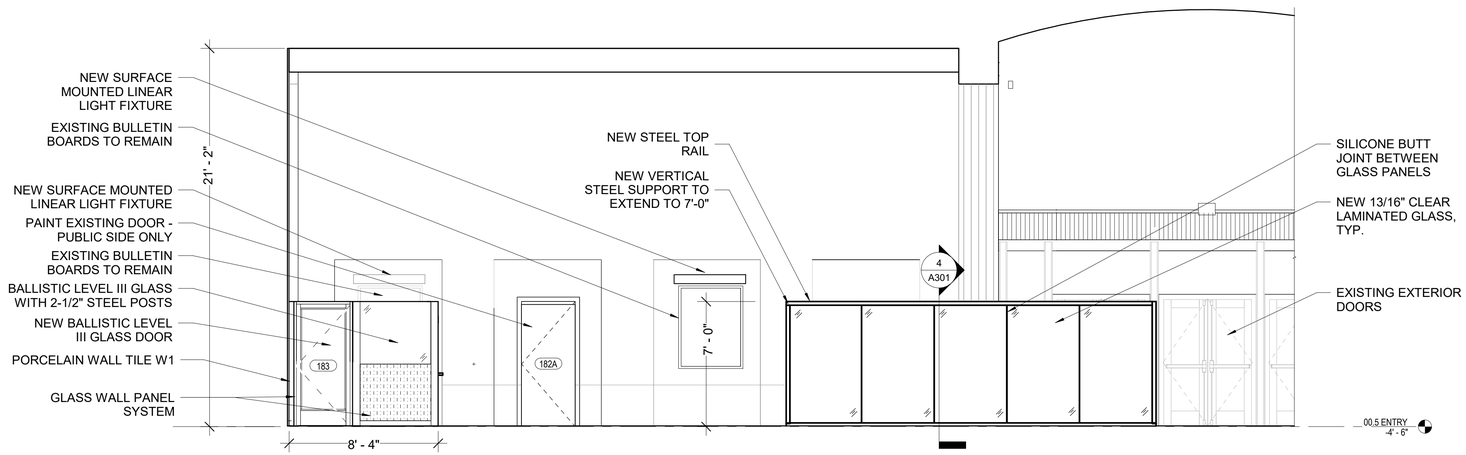
8 A206 FORT STREET GUARD BOOTH 183 WEST ELEVATION - NEW
1/4" = 1'-0"



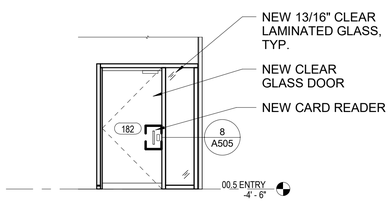
6 A206 FORT STREET GUARD BOOTH 183 EAST ELEVATION - NEW
1/4" = 1'-0"



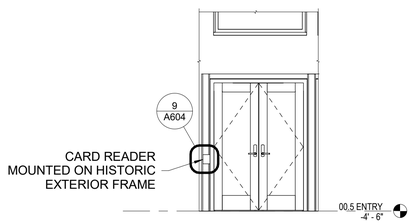
4 A206 FORT STREET ELEVATOR LOBBY 100.7 EAST ELEVATION - NEW
1/4" = 1'-0"



3 A206 FORT STREET ELEVATOR LOBBY 100.7 SOUTH ELEVATION - NEW
1/4" = 1'-0"



2 A206 FORT STREET LOBBY 100.7 EAST ELEVATION - NEW
1/4" = 1'-0"



1 A206 FORT STREET ENTRANCE NORTH ELEVATION - NEW
1/4" = 1'-0"

KEY PLAN

GRAPHIC SCALE
1/4"=1'-0" 0 4' 8'

REVISION BLOCK

MARK	DATE	DESCRIPTION

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PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	ELEVATIONS
SHEET NUMBER AND FILENAME	A206

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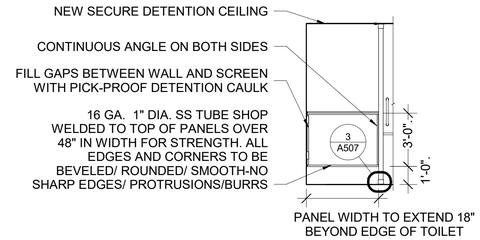
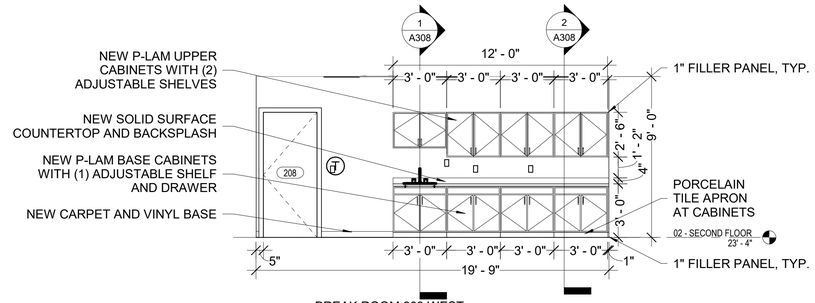
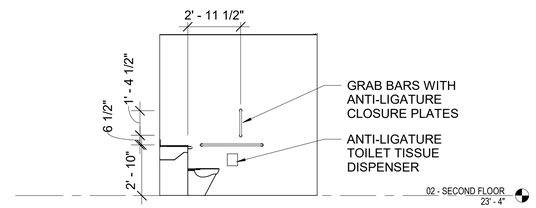
FOR ALL SEALANT THROUGHOUT PRISONER AREAS, INCLUDING BUT NOT LIMITED TO SALLYPORTS, CELLS AND VESTIBULES, THE SEALANT SHALL BE PICKPROOF IN COMPLIANCE WITH USMS PUB 64.



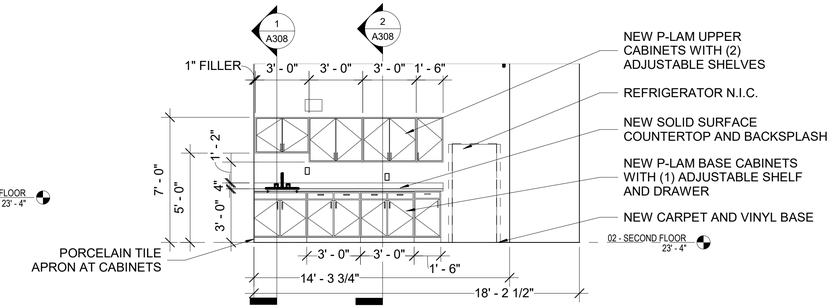
10 A207 MODESTY SCREEN ELEVATION
1/4" = 1'-0"



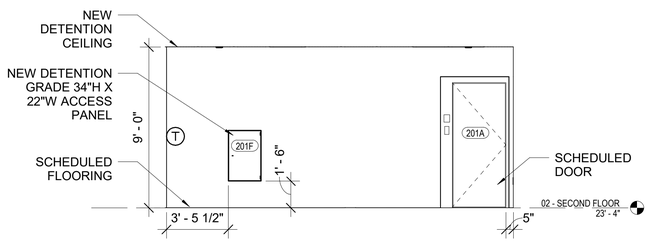
5 A207 BREAK ROOM 208 WEST ELEVATION - NEW
1/4" = 1'-0"



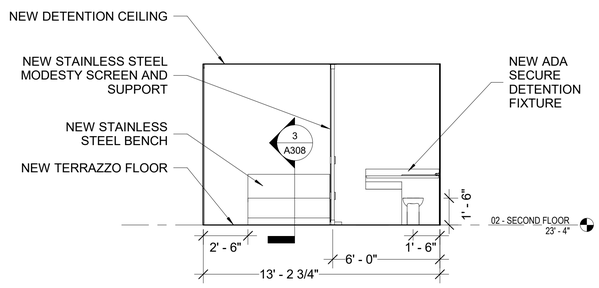
9 A207 CELL 1 SOUTH ELEVATION - NEW
1/4" = 1'-0"



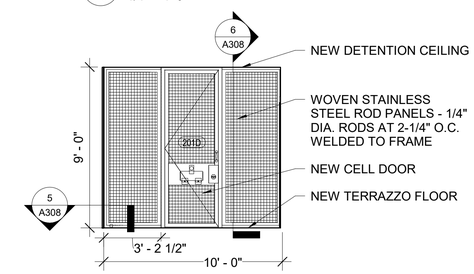
4 A207 CONFERENCE ROOM 290 WEST ELEVATION - NEW
1/4" = 1'-0"



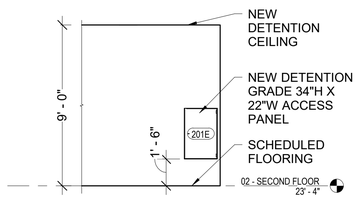
13 A207 ELEVATOR SALLYPORT 201 EAST ELEVATION - NEW
1/4" = 1'-0"



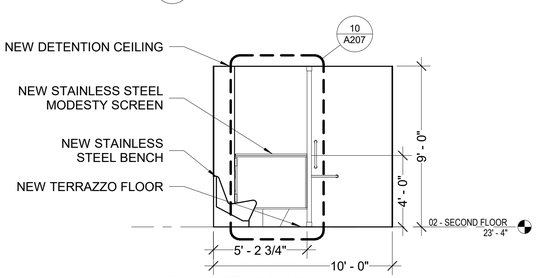
8 A207 CELL 1 WEST ELEVATION - NEW
1/4" = 1'-0"



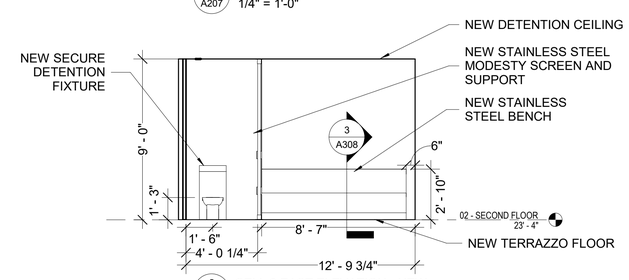
3 A207 SALLYPORT 2 NORTH ELEVATION - NEW
1/4" = 1'-0"



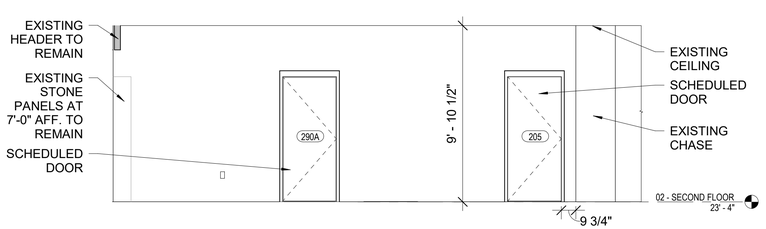
12 A207 ELEVATOR SALLYPORT 201 WEST ELEVATION - NEW
1/4" = 1'-0"



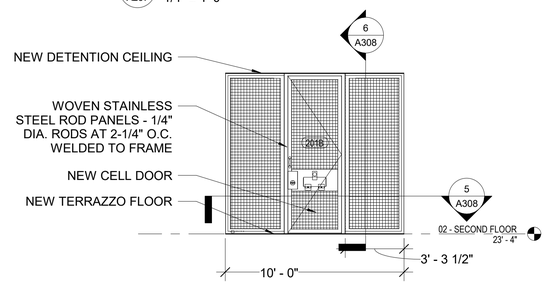
7 A207 CELL 1 NORTH ELEVATION - NEW
1/4" = 1'-0"



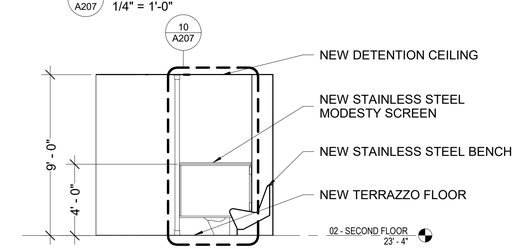
2 A207 CELL 2 EAST ELEVATION - NEW
1/4" = 1'-0"



11 A207 CORRIDOR 203 EAST ELEVATION - NEW
1/4" = 1'-0"



6 A207 SALLYPORT 1 NORTH ELEVATION - NEW
1/4" = 1'-0"



1 A207 CELL 2 NORTH ELEVATION - NEW
1/4" = 1'-0"

KEY PLAN

GRAPHIC SCALE

1/4"=1'-0" 0 4' 8'

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

STAMP OR SEAL

STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047664
LICENSED ARCHITECT

OWNER IDENTIFICATION

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	SECOND FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	ELEVATIONS - OPTION 1
SHEET NUMBER AND FILENAME	A207

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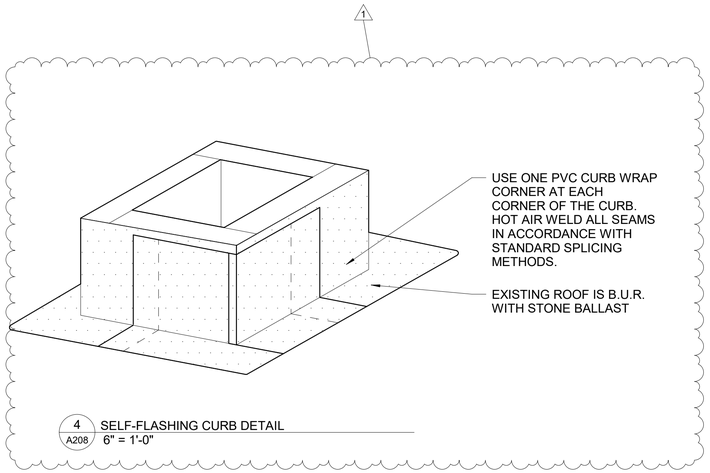
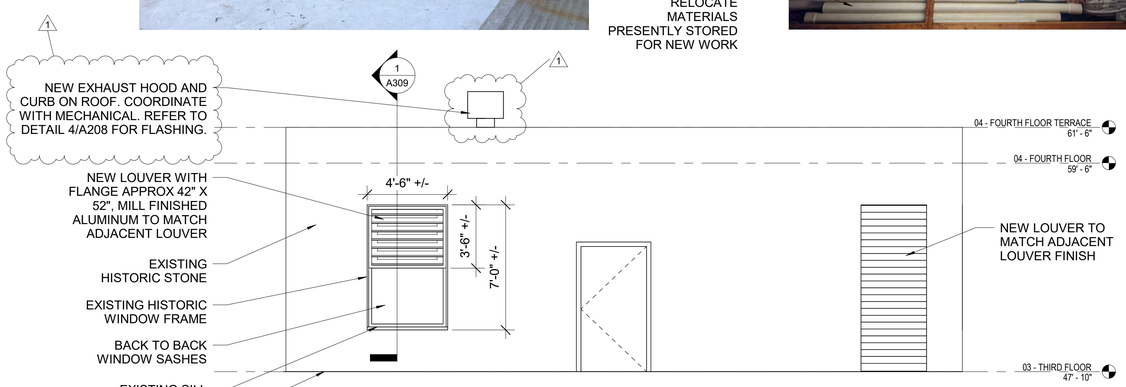
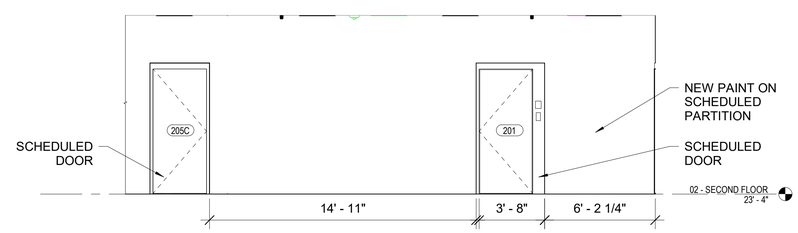


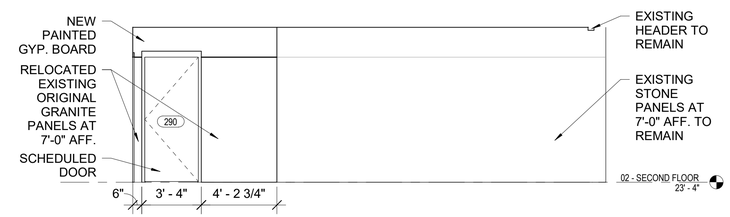
4 / A208 SELF-FLASHING CURB DETAIL
6" = 1'-0"



3 / A208 THIRD FLOOR MECHANICAL ROOM SOUTH EXTERIOR ELEVATION
1/4" = 1'-0"



2 / A208 SECOND FLOOR CORRIDOR 205 NORTH ELEVATION - NEW
1/4" = 1'-0"



1 / A208 SECOND FLOOR CORRIDOR 200.1 SOUTH ELEVATION - NEW
1/4" = 1'-0"

KEY PLAN

GRAPHIC SCALE
1/4"=1'-0" 0 4' 8'

REVISION BLOCK

MARK	DATE	DESCRIPTION
1	02/15/2023	100% Revision

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

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FORBES ASSOCIATES ARCHITECTS
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LICENSED ARCHITECT

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Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	SECOND/THIRD FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	ELEVATIONS - OPTION 1
SHEET NUMBER AND FILENAME	A208

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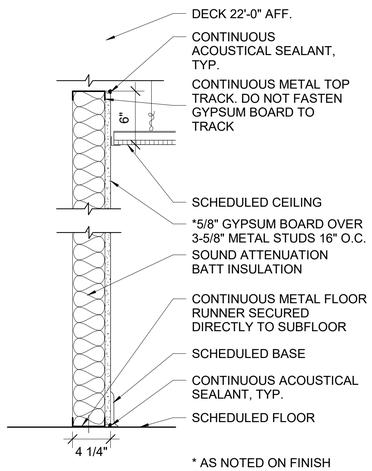
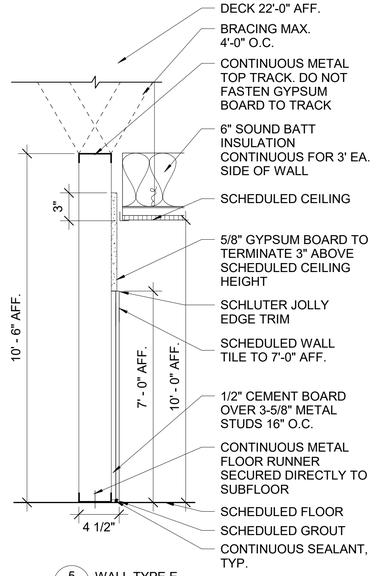
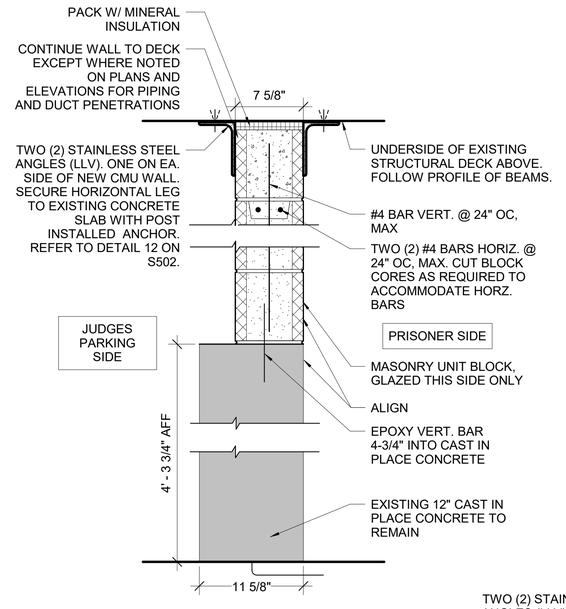


7 A301 WALL TYPE G1
1 1/2" = 1'-0"

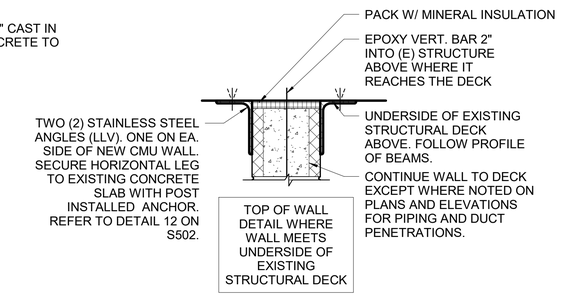
* AS NOTED ON FINISH PLAN SCHEDULED WALL TILE ON 1/2" CEMENT BOARD

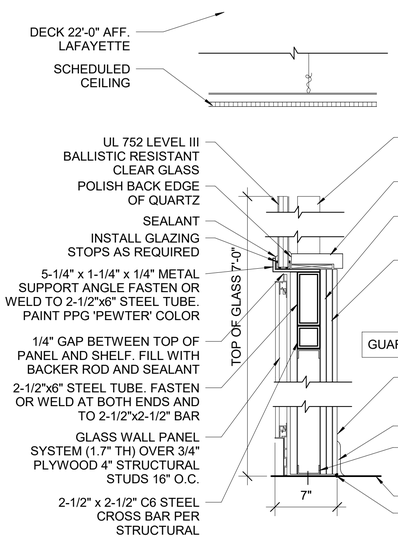


5 A301 WALL TYPE E
1 1/2" = 1'-0"



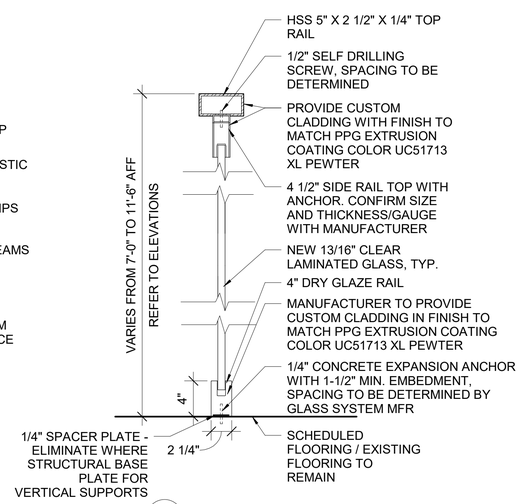
3 A301 WALL TYPE C
1 1/2" = 1'-0"



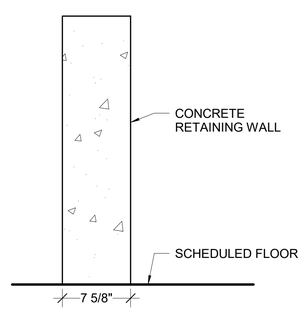


6 A301 WALL TYPE F
1 1/2" = 1'-0"

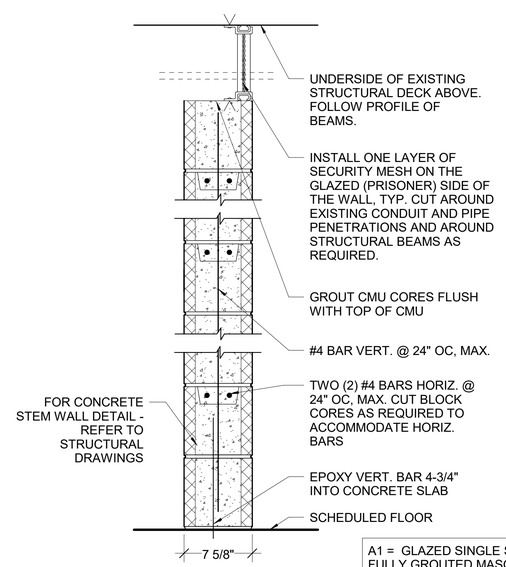
* AS NOTED ON ARCHITECTURAL DRAWINGS THERE IS AN ADDITIONAL 2 1/2" METAL STUD.



4 A301 WALL TYPE D
1 1/2" = 1'-0"



2 A301 WALL TYPE B
1 1/2" = 1'-0"



1 A301 WALL TYPE A1, A2, & A3
1 1/2" = 1'-0"

A1 = GLAZED SINGLE SIDE, FULLY GROUTED MASONRY UNIT BLOCK

A2 = GLAZED DOUBLE SIDE, FULLY GROUTED MASONRY UNIT BLOCK

A3 = PAINTED, FULLY GROUTED MASONRY UNIT BLOCK

KEY PLAN

GRAPHIC SCALE

1 1/2"=1'-0" 0 1' 2'

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
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Public Buildings Service
Great Lakes

Customer Projects Service Center
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230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	VARIOUS
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	WALL TYPES
SHEET NUMBER AND FILENAME	A301

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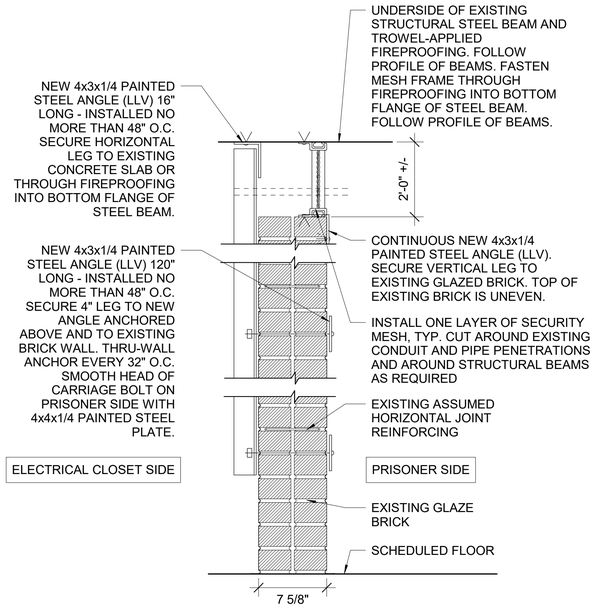
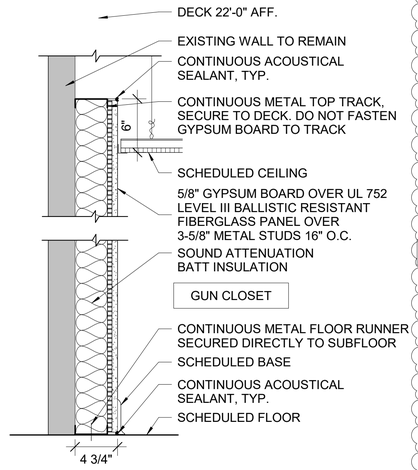
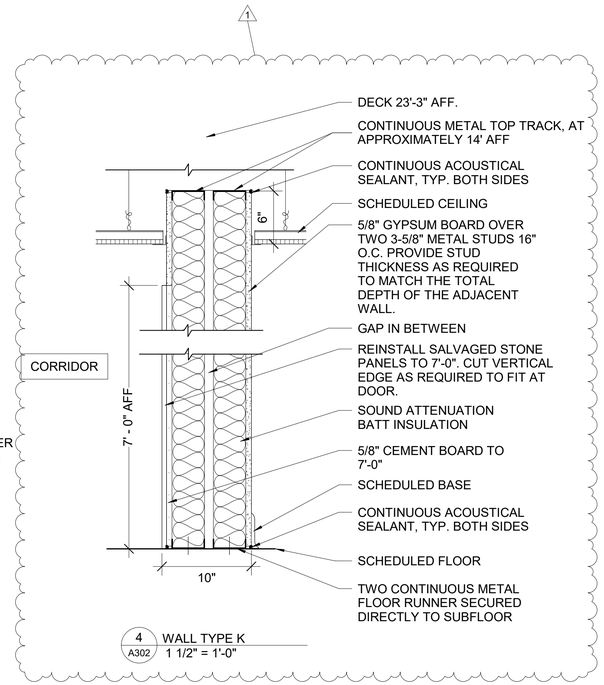


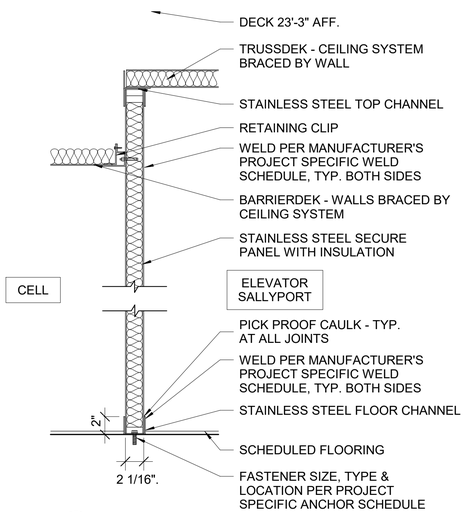
8 A302 WALL TYPE P
1 1/2" = 1'-0"



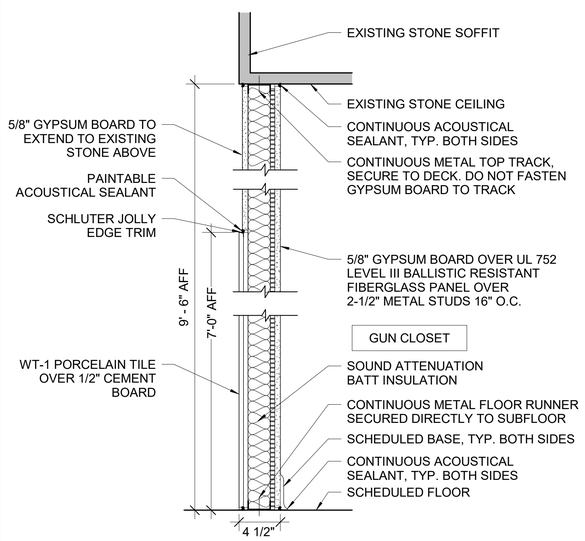
6 A302 WALL TYPE M
1 1/2" = 1'-0"



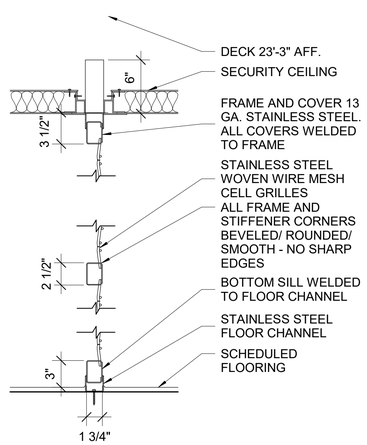
4 A302 WALL TYPE K
1 1/2" = 1'-0"



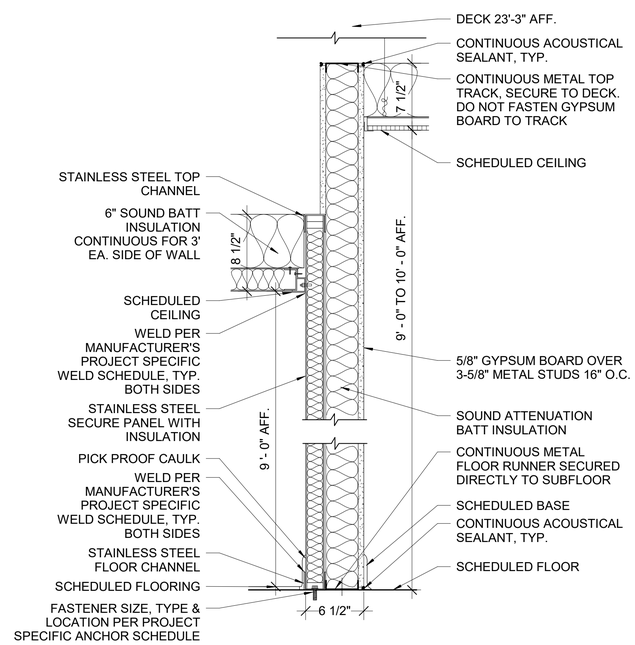
2 A302 WALL TYPE H
1 1/2" = 1'-0"



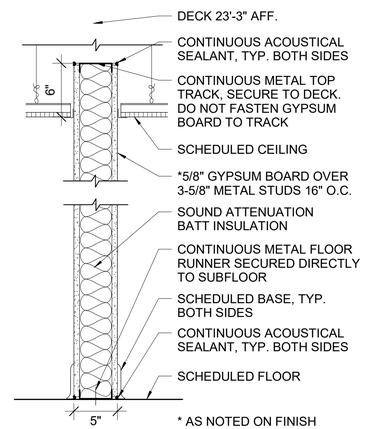
7 A302 WALL TYPE N
1 1/2" = 1'-0"



5 A302 WALL TYPE L
1 1/2" = 1'-0"



3 A302 WALL TYPE J
1 1/2" = 1'-0"



* AS NOTED ON FINISH PLAN SCHEDULED WALL TILE ON 1/2" CEMENT BOARD

1 A302 WALL TYPE G2
1 1/2" = 1'-0"

KEY PLAN

GRAPHIC SCALE
1 1/2"=1'-0" 0 1' 2'

REVISION BLOCK

MARK	DATE	DESCRIPTION
1	02/15/2023	100% Revision

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

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816 E 4th ST.
Royal Oak, MI 48067
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BUILDING

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CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	VARIOUS
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	WALL TYPES
SHEET NUMBER AND FILENAME	A302

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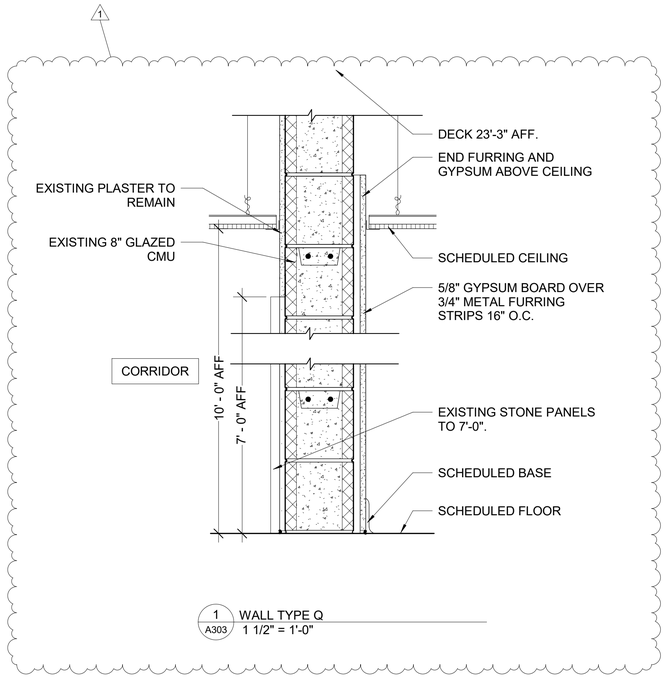
NOTE FOR ALL WIRE MESH DETAILS: REPAIR GRAY ALKYD ENAMEL FINISH AS REQUIRED AFTER INSTALLATION.



1 / A303 WALL TYPE Q
1 1/2" = 1'-0"

KEY PLAN

GRAPHIC SCALE

1 1/2"=1'-0" 0 1' 2'

REVISION BLOCK

MARK	DATE	DESCRIPTION
1	02/15/2023	100% Revision

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
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248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

STAMP OR SEAL

STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047664
LICENSED ARCHITECT

OWNER IDENTIFICATION

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	VARIOUS
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	WALL TYPES
SHEET NUMBER AND FILENAME	A303

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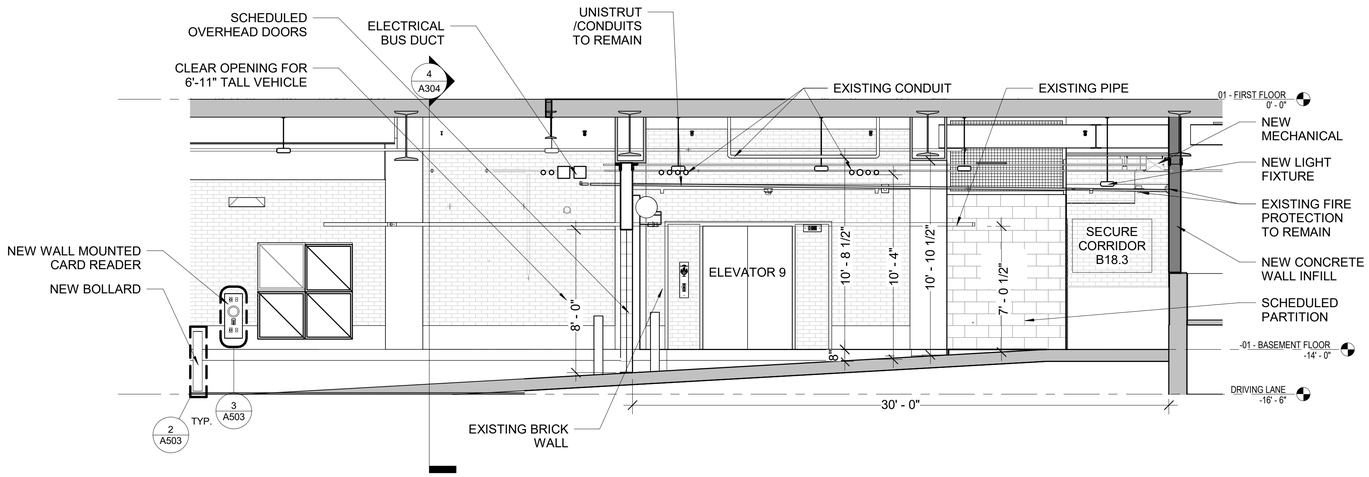
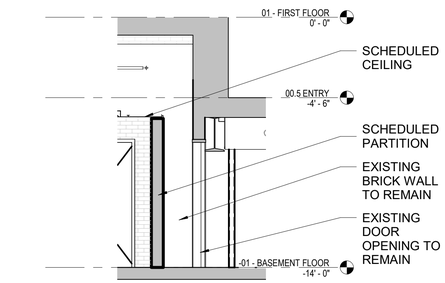
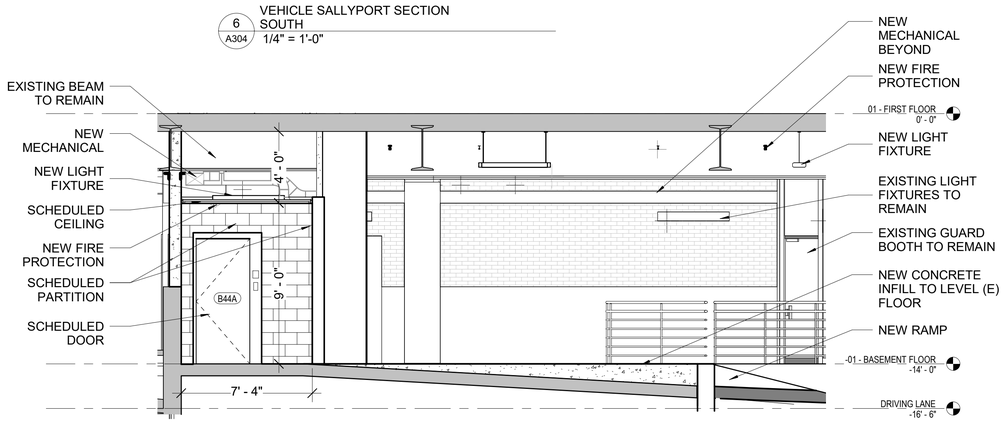
FOR ALL SEALANT THROUGHOUT PRISONER AREAS, INCLUDING BUT NOT LIMITED TO SALLYPORTS, CELLS AND VESTIBULES, THE SEALANT SHALL BE PICKPROOF IN COMPLIANCE WITH USMS PUB 64.



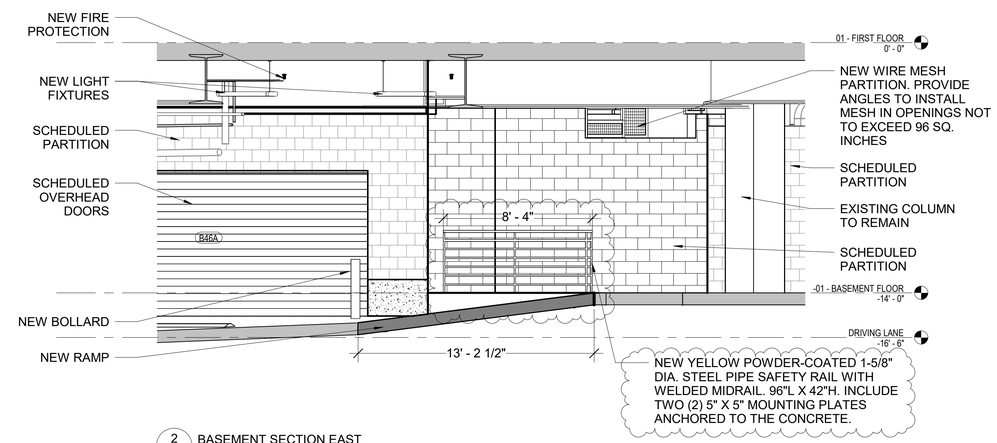
6 A304 VEHICLE SALLYPORT SECTION SOUTH
1/4" = 1'-0"



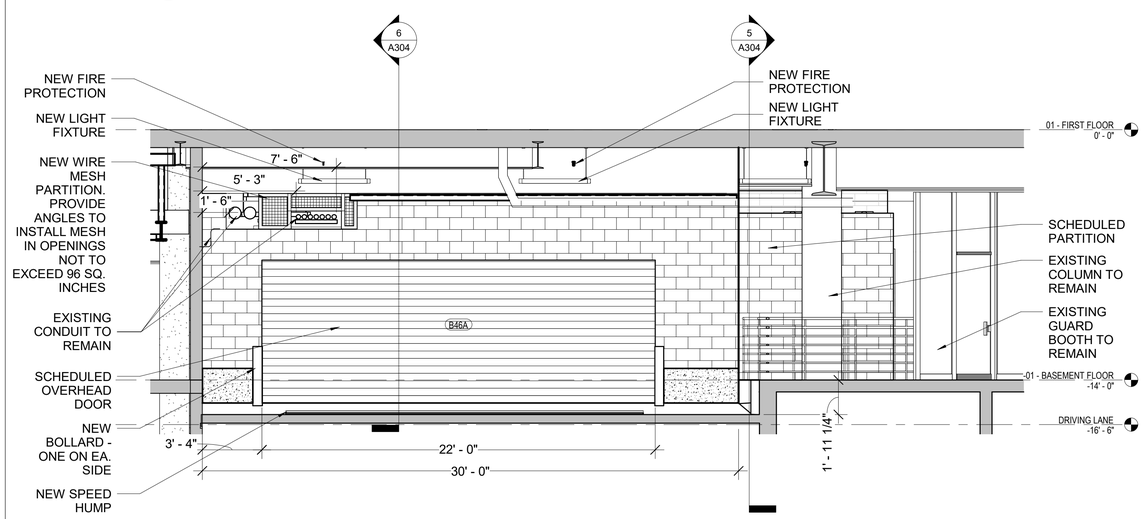
3 A304 VACANT ROOM B42.1 SECTION THUR NEW CHASE
1/4" = 1'-0"



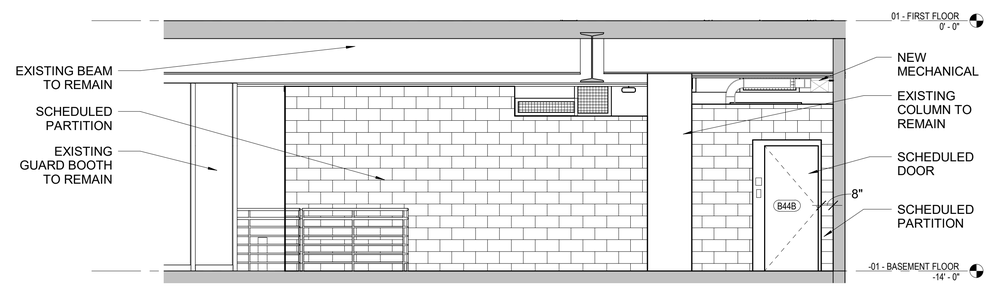
5 A304 VEHICLE SALLYPORT SECTION NORTH - NEW
1/4" = 1'-0"



2 A304 BASEMENT SECTION EAST
1/4" = 1'-0"



4 A304 VEHICLE SALLYPORT SECTION EAST - NEW
1/4" = 1'-0"



1 A304 BASEMENT SECTION SOUTH
1/4" = 1'-0"

KEY PLAN

GRAPHIC SCALE

1/4"=1'-0" 0 4' 8'

REVISION BLOCK

MARK	DATE	DESCRIPTION
1	02/15/2023	100% Revision

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

STAMP OR SEAL

STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047654
LICENSED ARCHITECT

OWNER IDENTIFICATION

GSA
General Services Administration
Public Buildings Service
Great Lakes
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John C. Kluczynski Federal Building
230 South Dearborn St.
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Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
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CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	BASEMENT FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	SECTION
SHEET NUMBER AND FILENAME	A304

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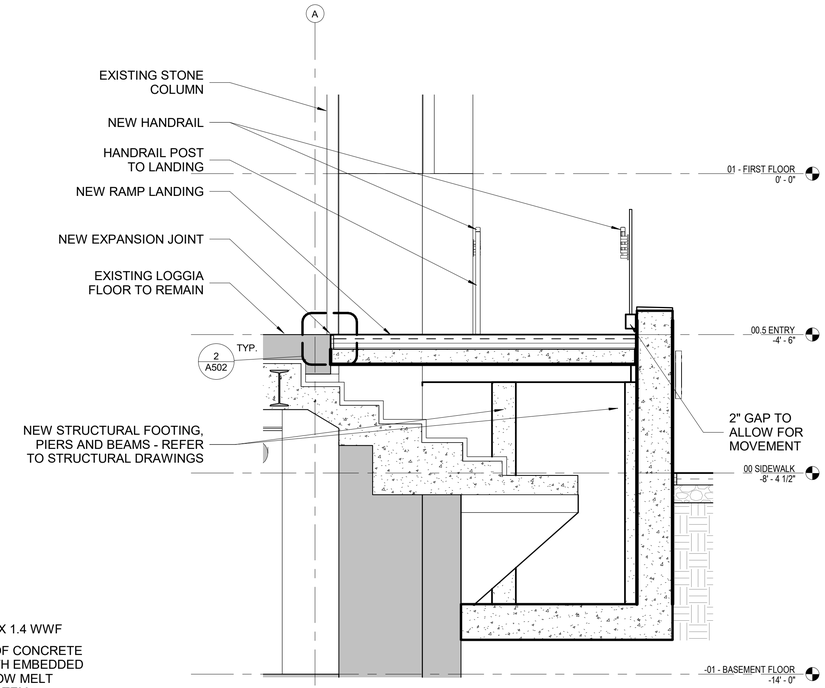
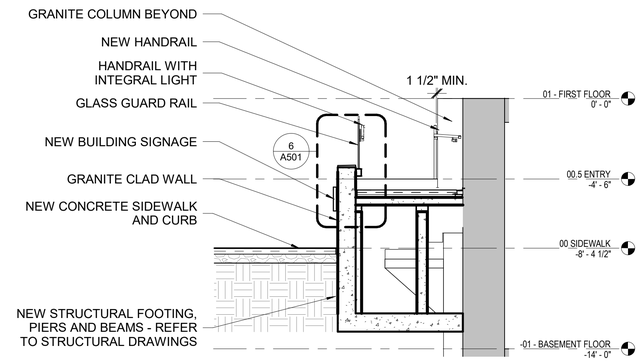
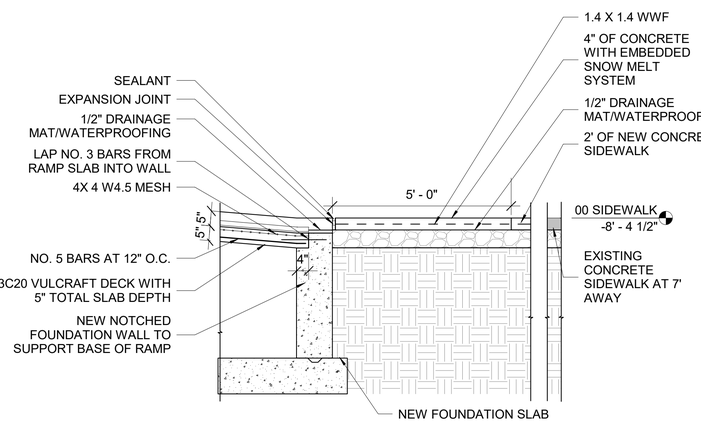


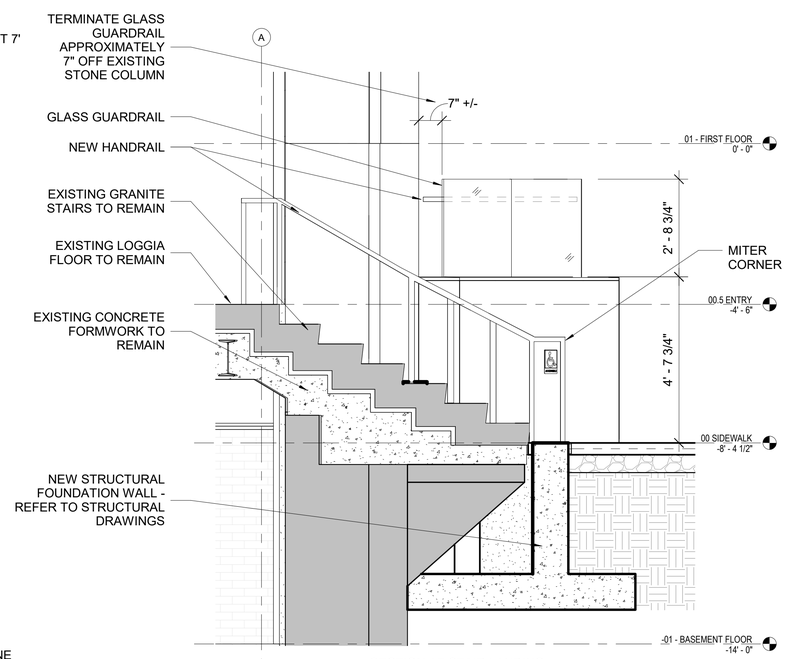
5 A305 SECTION AT RAMP LANDING - NEW
1/2" = 1'-0"



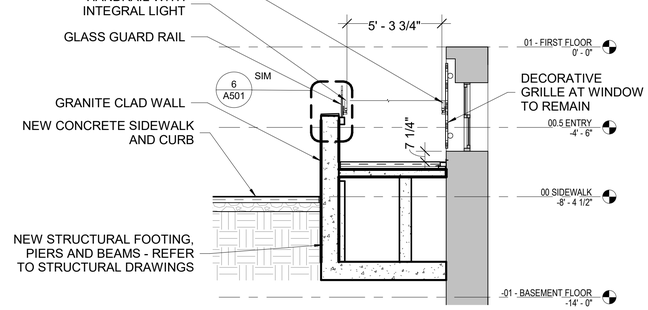
3 A305 RAMP SECTION NEAR LANDING
1/4" = 1'-0"



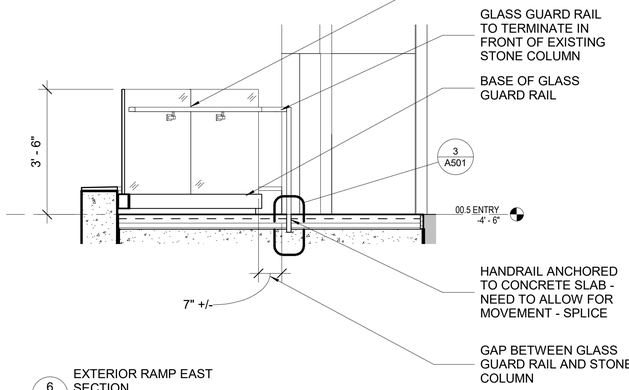
7 A305 TYP. DETAIL FOR NEW RAMP
1/2" = 1'-0"



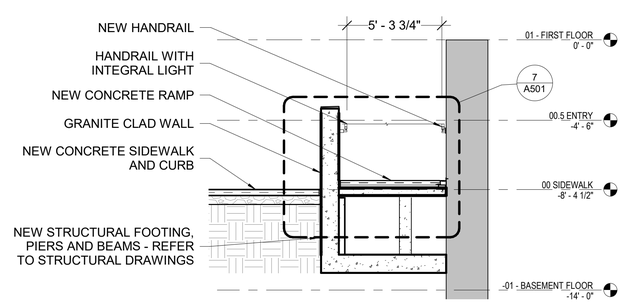
4 A305 SECTION AT STAIR LANDING - NEW
1/2" = 1'-0"



2 A305 RAMP SECTION AT WINDOW
1/4" = 1'-0"



6 A305 EXTERIOR RAMP EAST SECTION
1/2" = 1'-0"



1 A305 RAMP SECTION AT BASE
1/4" = 1'-0"

KEY PLAN

GRAPHIC SCALE
1/4"=1'-0" 0 4" 8"

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

DESIGNER IDENTIFICATION
FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

STAMP OR SEAL
STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047664
LICENSED ARCHITECT

OWNER IDENTIFICATION
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Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	RAMP
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	SECTION
SHEET NUMBER AND FILENAME	A305

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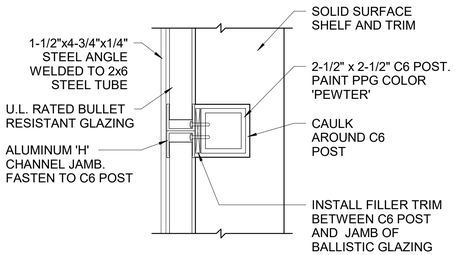
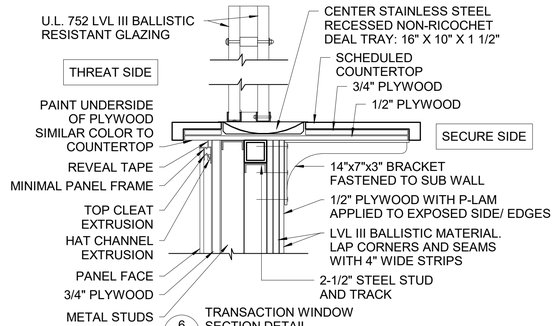
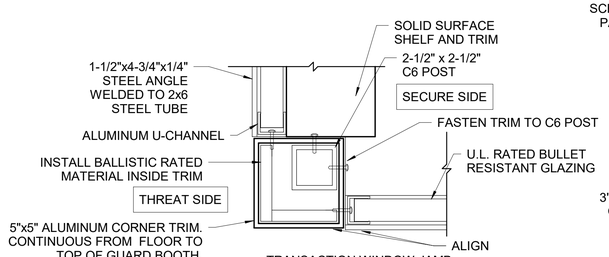


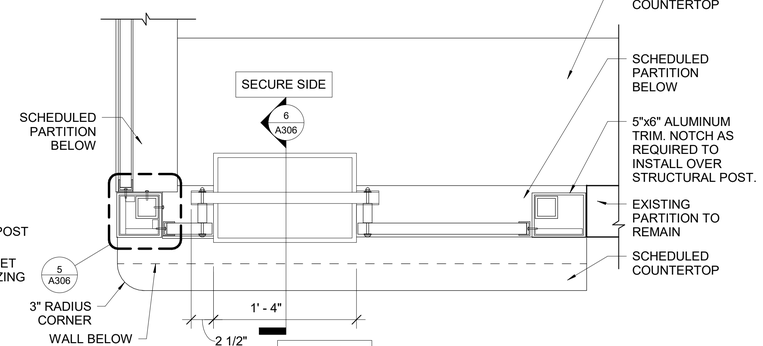
7 A306 GUARD BOOTH BALLISTIC GLAZING JAMB DETAIL
3" = 1'-0"



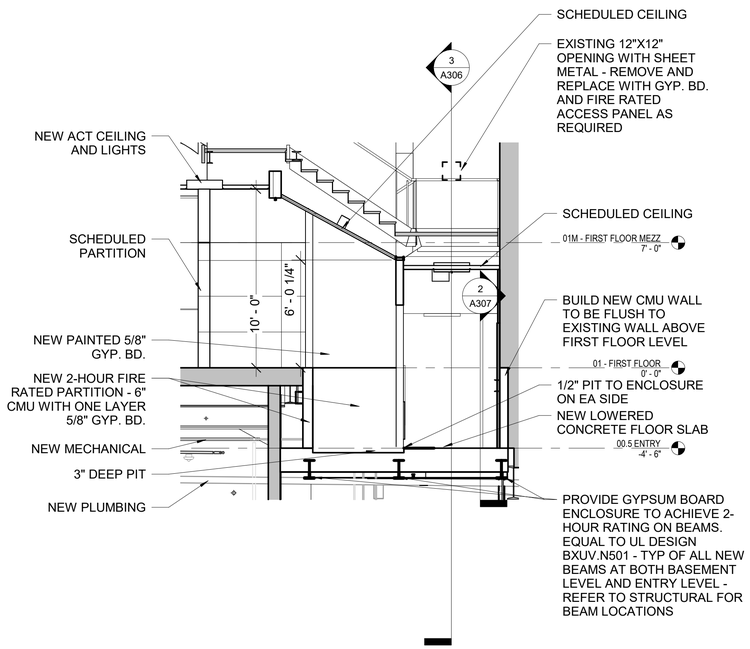
6 A306 TRANSACTION WINDOW SECTION DETAIL
1 1/2" = 1'-0"



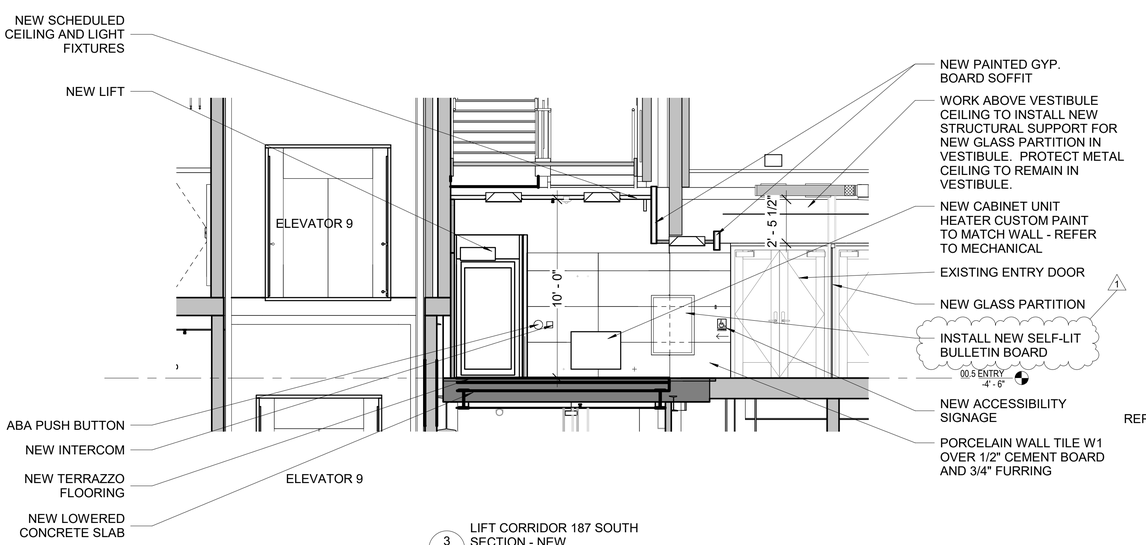
5 A306 TRANSACTION WINDOW JAMB DETAIL
3" = 1'-0"



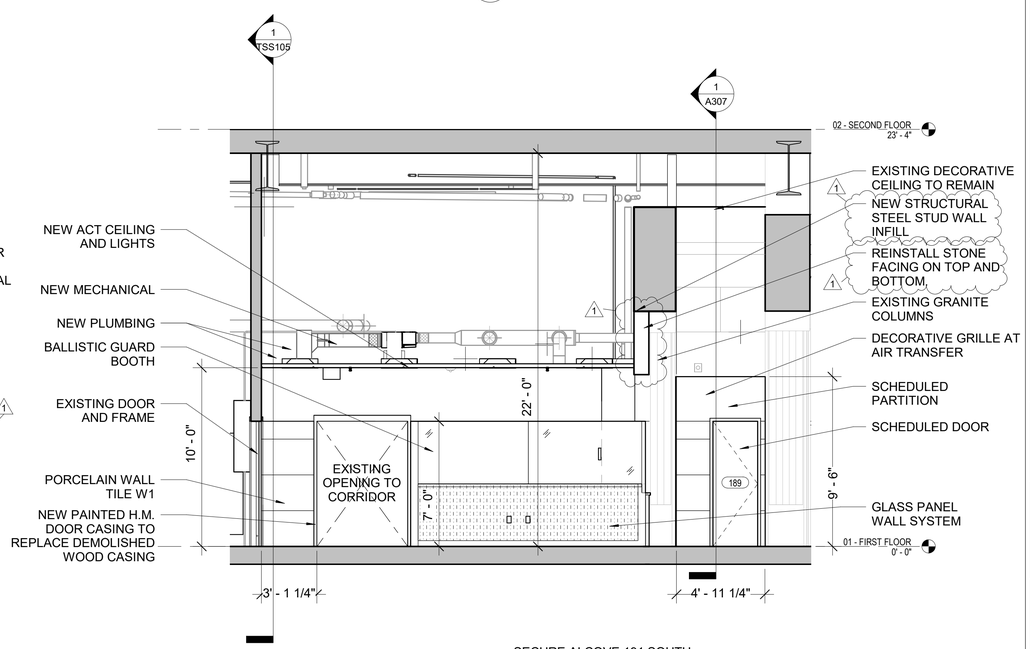
4 A306 TRANSACTION WINDOW PLAN DETAIL
1 1/2" = 1'-0"



2 A306 LIFT CORRIDOR 187 WEST SECTION - NEW
1/4" = 1'-0"



3 A306 LIFT CORRIDOR 187 SOUTH SECTION - NEW
1/4" = 1'-0"



1 A306 SECURE ALCOVE 191 SOUTH SECTION - NEW
1/4" = 1'-0"

KEY PLAN

GRAPHIC SCALE

1/4"=1'-0" 0 4" 8"

REVISION BLOCK

MARK	DATE	DESCRIPTION
1	02/15/2023	100% Revision

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

STAMP OR SEAL

STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047664
LICENSED ARCHITECT

OWNER IDENTIFICATION

GSA
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John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	SECTION
SHEET NUMBER AND FILENAME	A306

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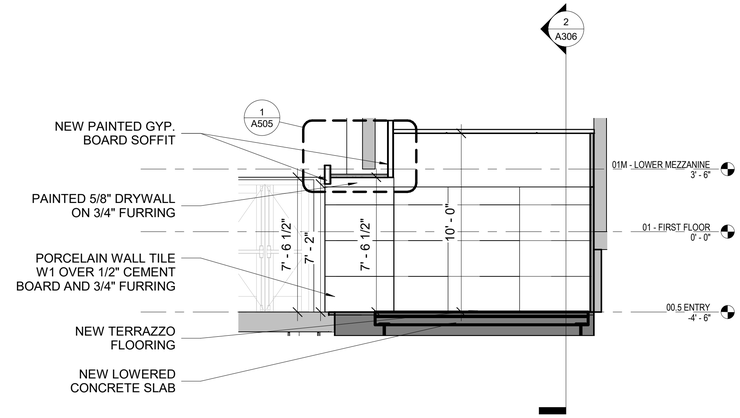
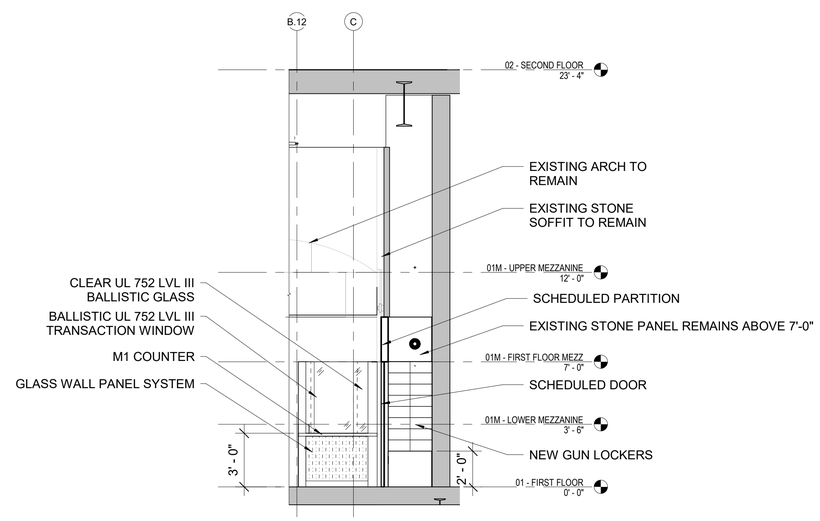


2 A307 LIFT CORRIDOR 187 NORTH SECTION - NEW
1/4" = 1'-0"



1 A307 GUN CLOSET 189 SECTION - NEW
1/4" = 1'-0"

KEY PLAN

GRAPHIC SCALE

1/4"=1'-0" 0 4" 8"

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

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LICENSED ARCHITECT

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ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	SECTIONS
SHEET NUMBER AND FILENAME	A307

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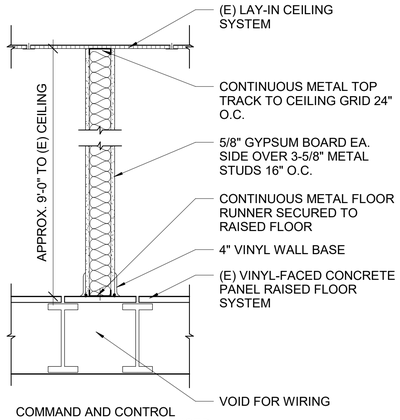
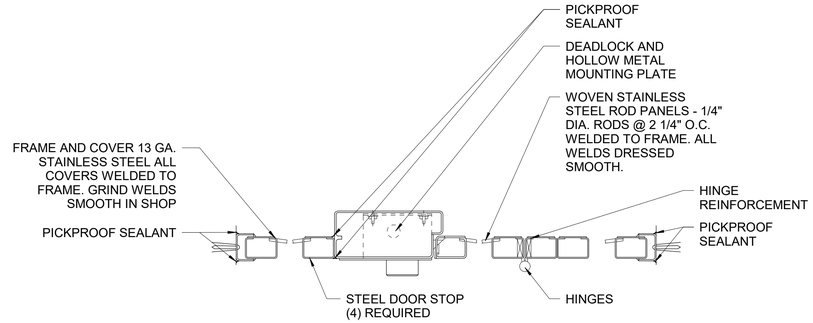
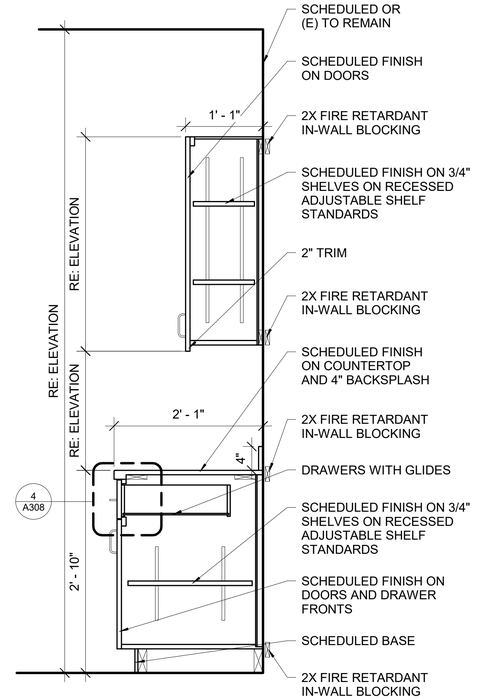


7 A308 COMMAND AND CONTROL CENTER NEW WALL ON RAISED FLOOR - SECTION
1" = 1'-0"

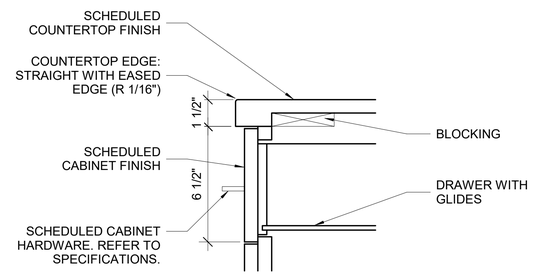


SHOP NOTE: GRIND EDGES SMOOTH IN SHOP

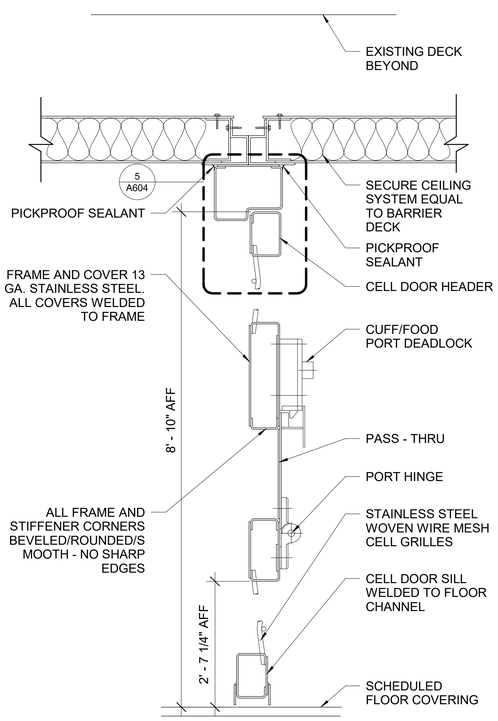
5 A308 CELL DOOR/CELL FRONT - PLAN
3" = 1'-0"



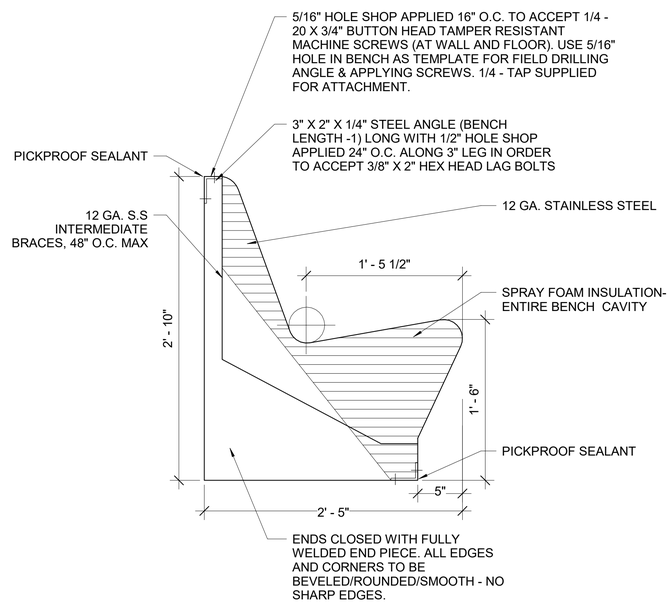
2 A308 MILLWORK SECTION AT CABINETRY
1" = 1'-0"



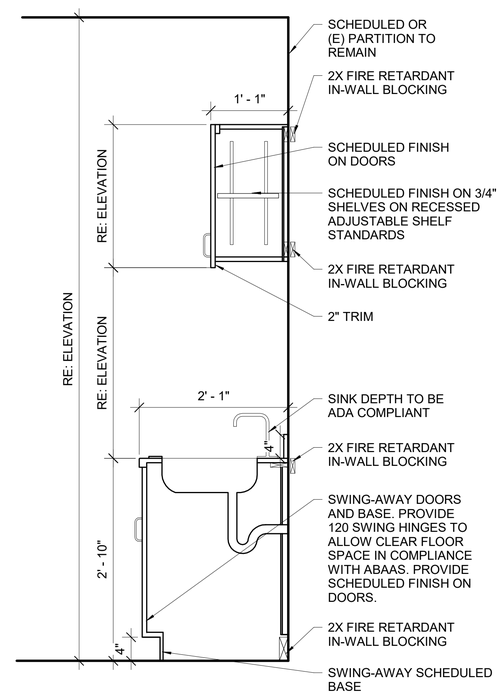
4 A308 TYP. DETAIL AT MILLWORK
3" = 1'-0"



6 A308 CELL DOOR CUFF/FOOD - SECTION
3" = 1'-0"



3 A308 CELL BENCH
1 1/2" = 1'-0"



1 A308 MILLWORK SECTION AT SINK
1" = 1'-0"

KEY PLAN

GRAPHIC SCALE

1"=1'-0" 0 1' 2'

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

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PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	SECOND FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	SECTIONS - OPTION 1
SHEET NUMBER AND FILENAME	A308

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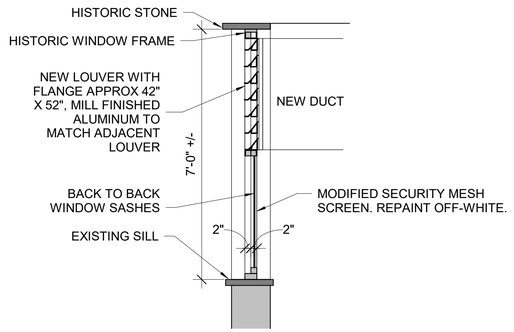

1 / A309 SECTION AT LOUVER
1/2" = 1'-0"

KEY PLAN

GRAPHIC SCALE

1/2"=1'-0" 0 2" 4"

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

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GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	SECTIONS - OPTION 1
SHEET NUMBER AND FILENAME	A309

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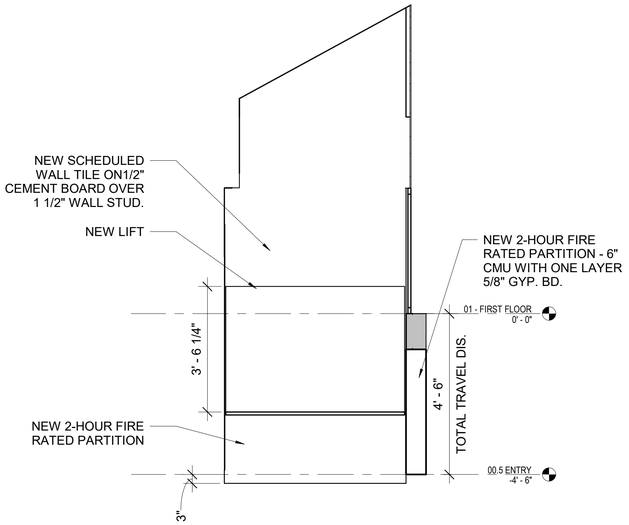
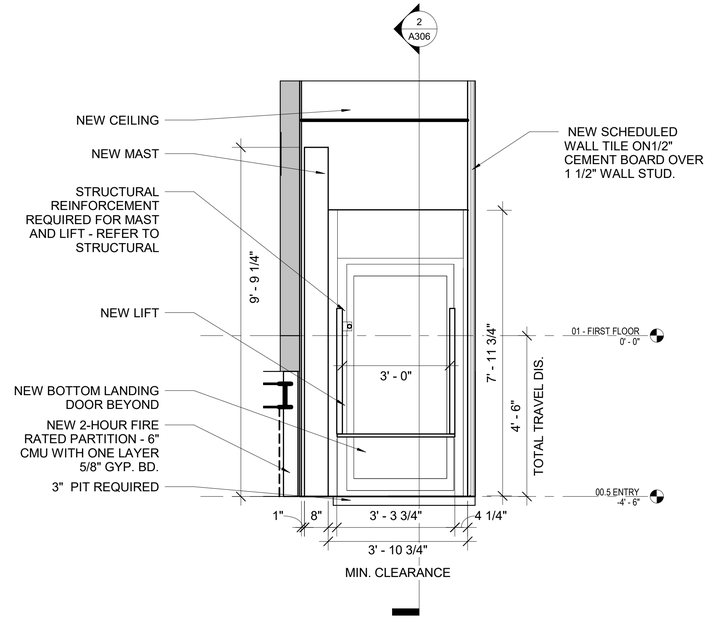
KEYED NOTES

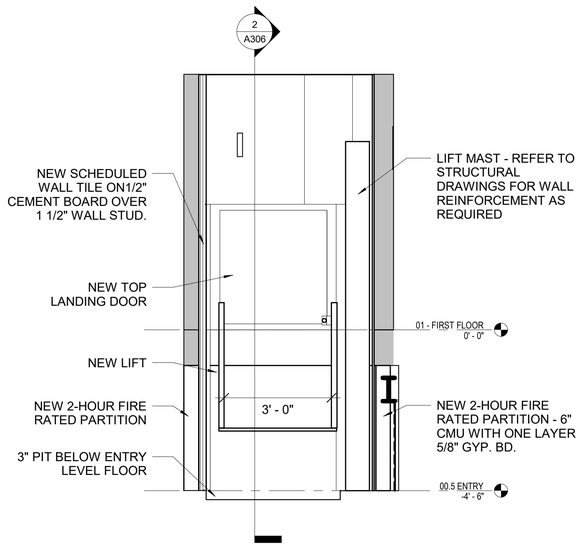
NUMBER	DESCRIPTION
37	NEW ABAAS LIFT FROM ENTRY LEVEL TO 1ST FLOOR LANDING.
51	PROVIDE FURRED OUT PARTITION AS REQUIRED TO PROVIDE SMOOTH FINISH IN NEW AREA AS AN EXTENSION OF THE VESTIBULE. PREPARE SUBSTRATE TO RECEIVE FINISH.



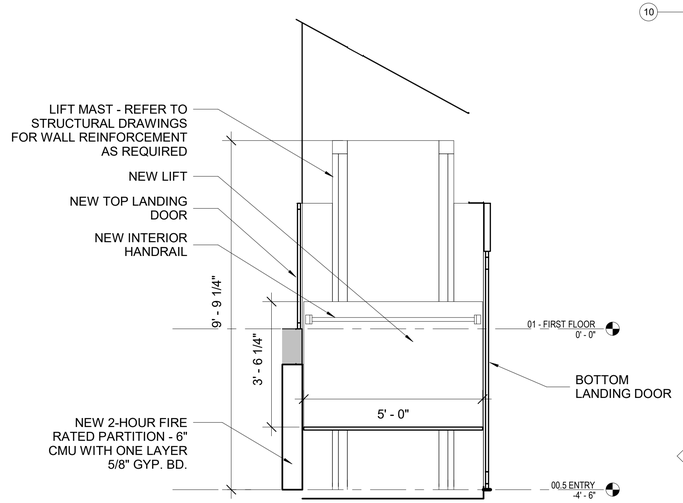
5 A401 LIFT EAST ELEVATION - NEW
1/2" = 1'-0"



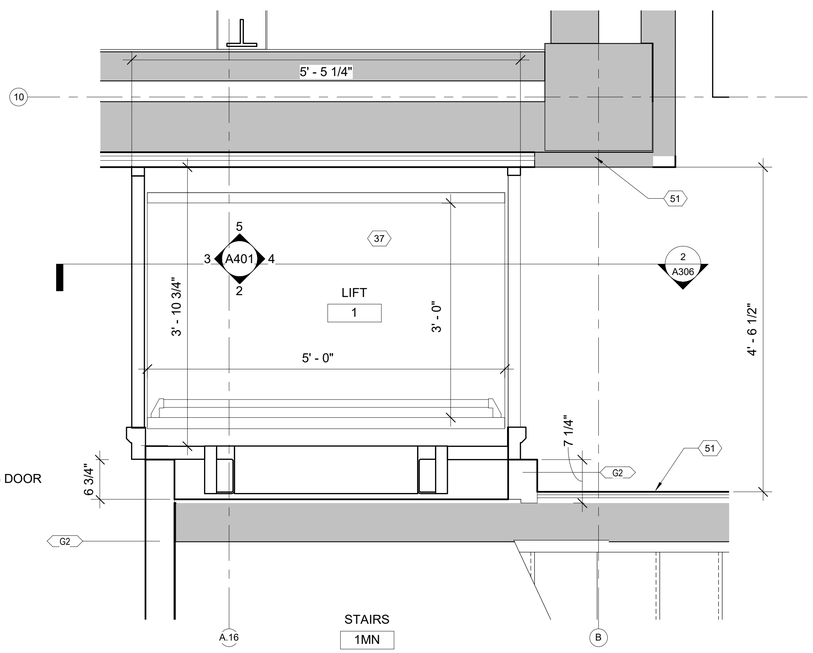
3 A401 LIFT NORTH ELEVATION - NEW
1/2" = 1'-0"



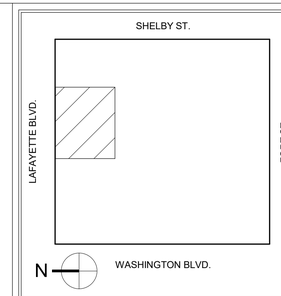
4 A401 LIFT SOUTH ELEVATION - NEW
1/2" = 1'-0"



2 A401 LIFT WEST ELEVATION - NEW
1/2" = 1'-0"



1 A401 FIRST FLOOR ENLARGED PLAN - LIFT FLOOR PLAN - NEW
1" = 1'-0"



KEY PLAN

GRAPHIC SCALE 1/2"=1'-0" 0 2" 4"

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

CONSULTANT IDENTIFICATION

STATE OF MICHIGAN SCOTT W. IGOODSELL ARCHITECT No. 1301047664 LICENSED ARCHITECT

STAMP OR SEAL

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	ENLARGED PLANS / DETAILS
SHEET NUMBER AND FILENAME	A401

SHEET

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CUSTOM CEILING LEGEND

ALL CEILING TILE SAME FINISH - CUSTOM BEIGE TO BE SELECTED

TYPE A - 24" X 24"

TYPE B - 12" X 60"

TYPE C - 28 1/2" X 60"

TYPE D - 18 1/2" X 60"

TYPE E - 24" X 41"

TYPE F - 13 1/2" X 60"

TYPE G - 13 1/2" X 34 1/4"

TYPE H - 18 1/2" X 34 1/4"

TYPE J - 13 1/2" X 24"

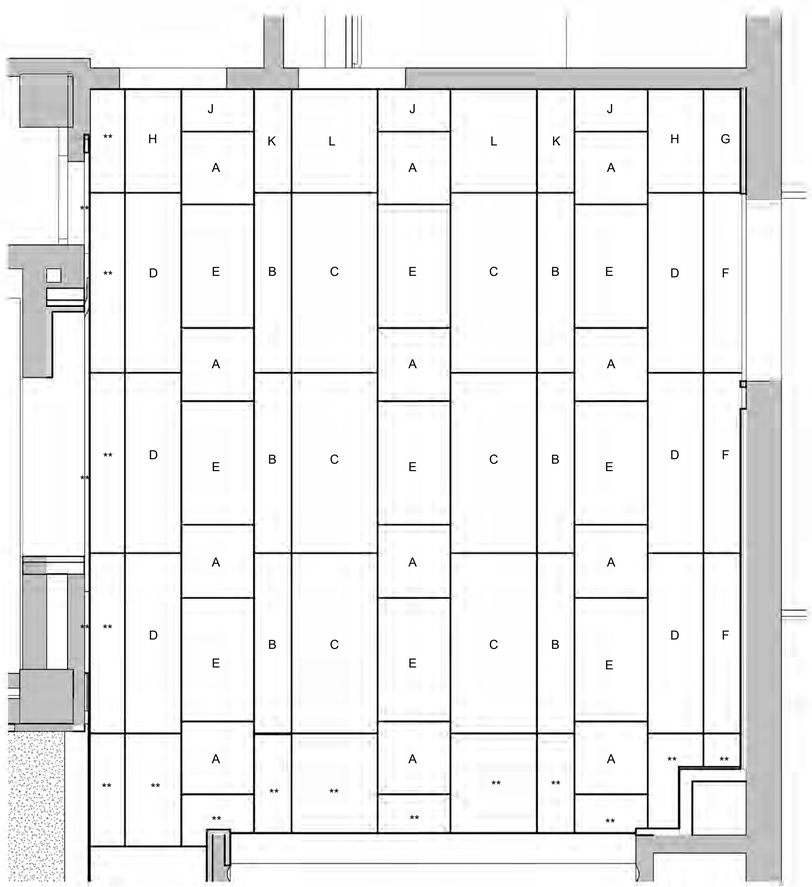
TYPE K - 12" X 34 1/4"

TYPE L - 28 1/2" X 34 1/4"

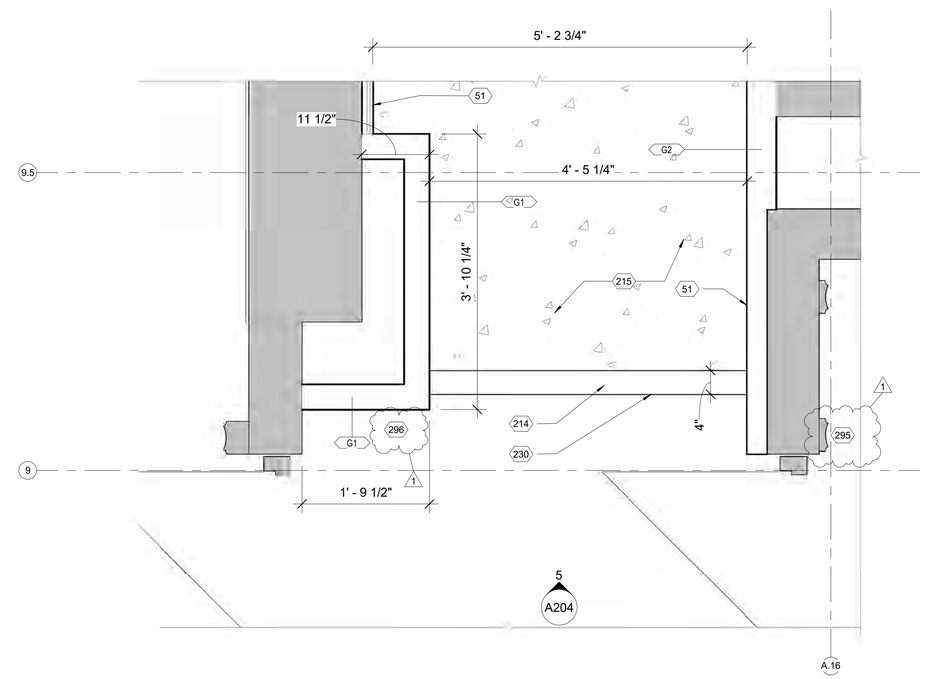
TYPE ** - ALL PERIMETER TILES TO BE CUT TO FIT EXISTING FIELD CONDITIONS

KEYED NOTES

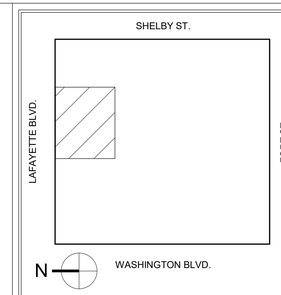
NUMBER	DESCRIPTION
51	PROVIDE FURRED OUT PARTITION AS REQUIRED TO PROVIDE SMOOTH FINISH IN NEW AREA AS AN EXTENSION OF THE VESTIBULE. PREPARE SUBSTRATE TO RECEIVE FINISH.
214	REUSE AND INSTALL ATTIC STOCK OF 4" BLACK GRANITE THRESHOLDS.
215	POUR NEW CONCRETE AS NECESSARY.
230	CUT AND PREPARE EXISTING TERRAZZO FLOOR TO RECEIVE 4" BLACK GRANITE THRESHOLD.
295	PROVIDE POWER ASSIST BUTTON ON WALL BRACKET SIM TO CARD READER METAL PLATE ADAPTER FOR EXTERIOR DOOR DETAIL.
296	PROVIDE TWO (2) FLUSH WALL MOUNTED POWER ASSIST BUTTONS - ONE FOR DOOR 186A AND ONE FOR DOOR 186B.



2 / A402 FIRST FLOOR - NORTH LAFAYETTE CEILING ENLARGED PLAN
1/2" = 1'-0"



1 / A402 FIRST FLOOR ENLARGED - LIFT CORRIDOR NEW SLAB
1" = 1'-0"



KEY PLAN

1/2"=1'-0" 0 2" 4"

GRAPHIC SCALE

MARK	DATE	DESCRIPTION
1	02/15/2023	100% Revision

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

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CONSULTANT IDENTIFICATION

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SCOTT W. GOODSELL
ARCHITECT
No. 1301047654
LICENSED ARCHITECT

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BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	ENLARGED PLAN
SHEET NUMBER AND FILENAME	A402

SHEET

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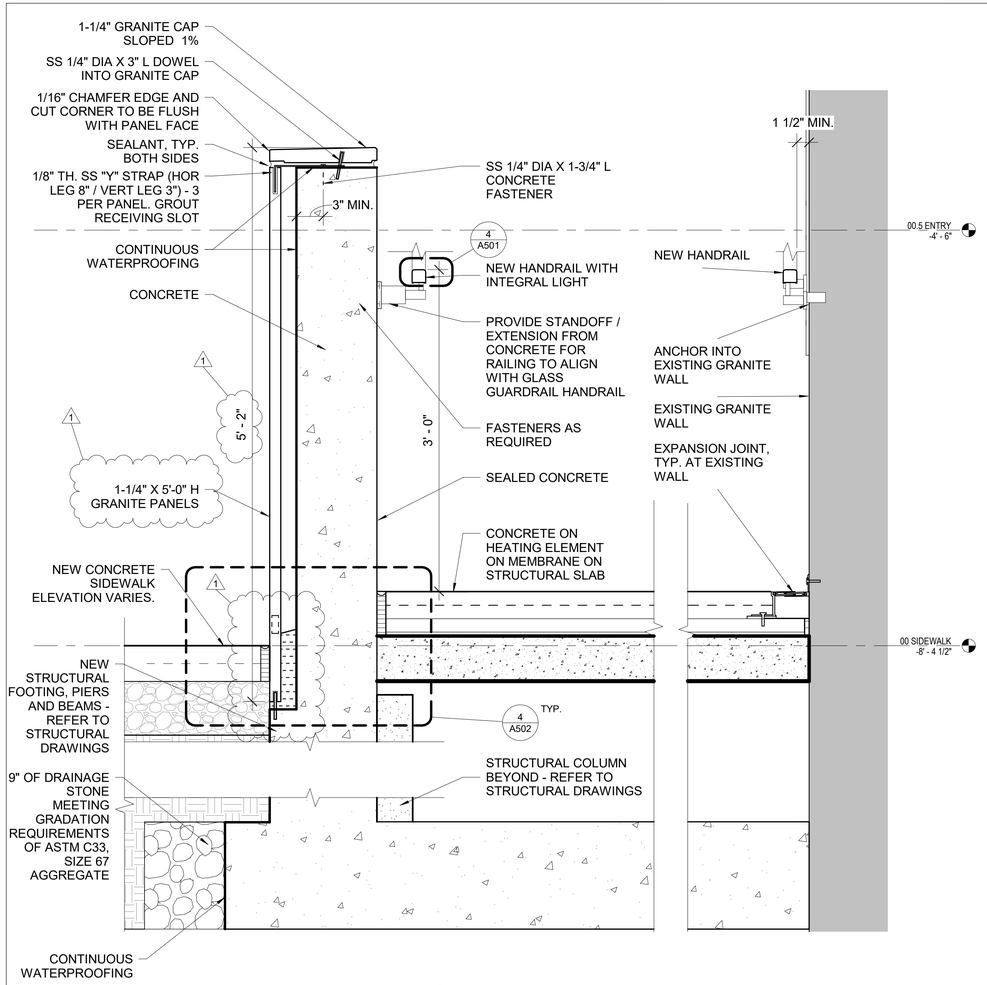
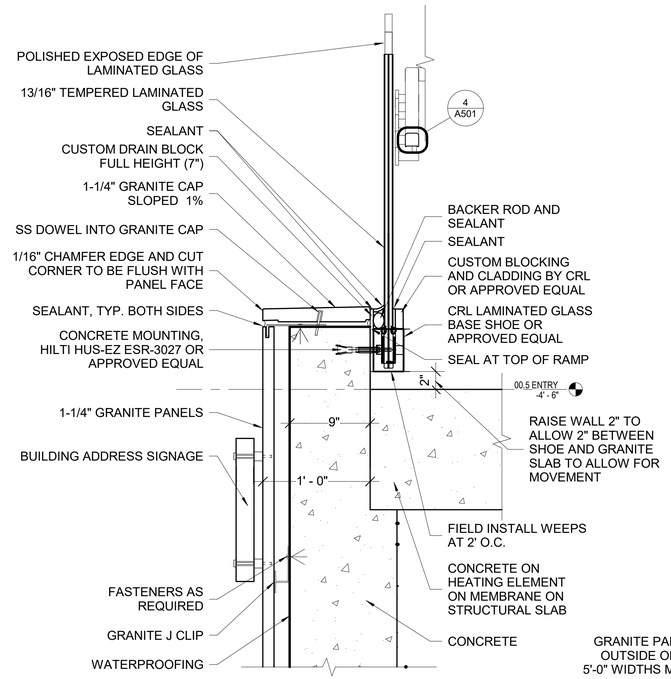
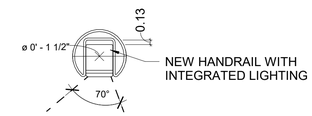


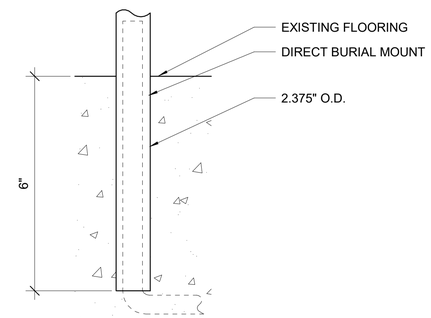
7 A501 DETAIL AT HANDRAILS
1 1/2" = 1'-0"



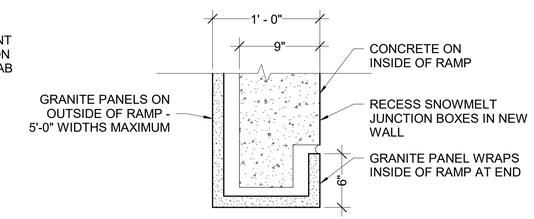
6 A501 GLASS BASE SHOE DETAIL
1 1/2" = 1'-0"



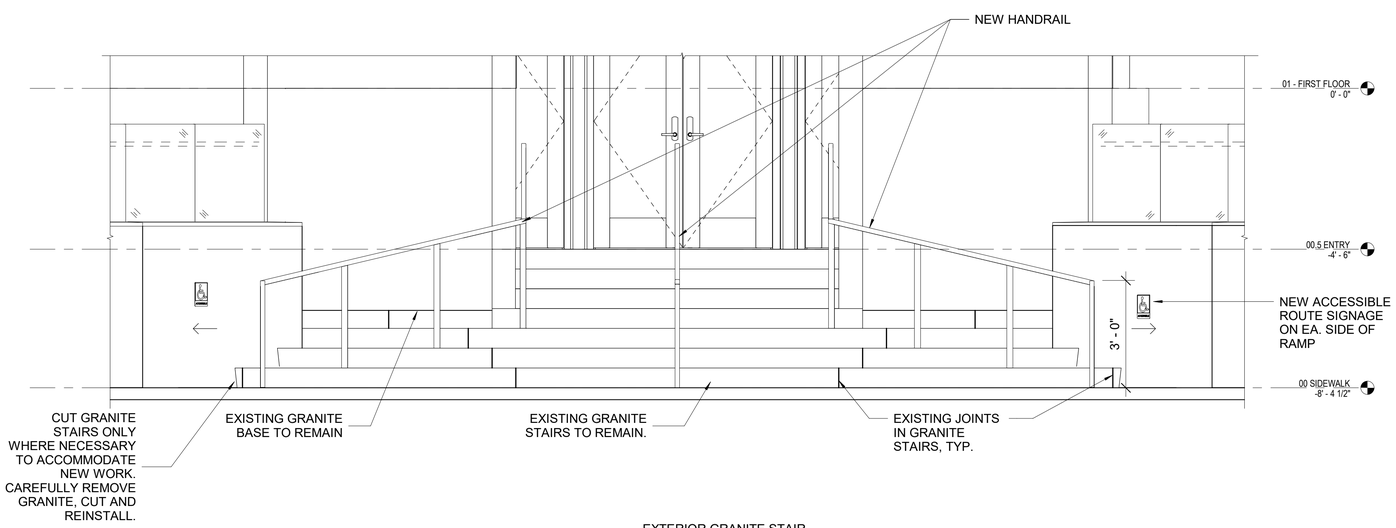
4 A501 HANDRAIL DETAIL LIGHT
6" = 1'-0"



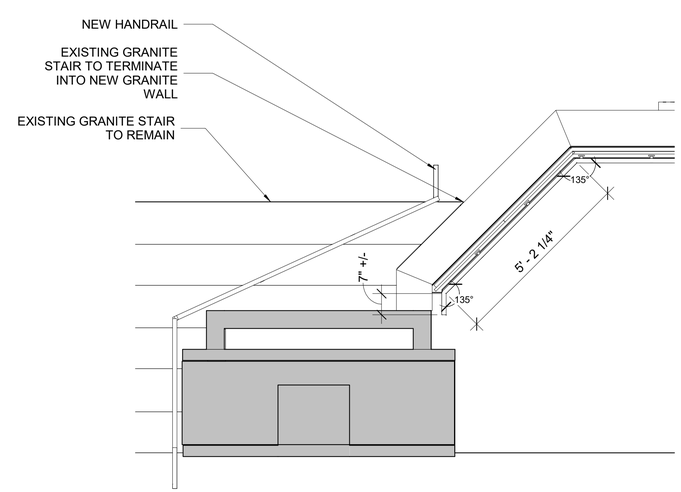
3 A501 HANDRAIL DETAIL POST
6" = 1'-0"



2 A501 GRANITE CLAD WALL DETAIL
1 1/2" = 1'-0"



5 A501 EXTERIOR GRANITE STAIR DETAIL ELEVATION
1/2" = 1'-0"



1 A501 EXTERIOR RAMP AND STAIRS DETAIL
1/2" = 1'-0"

KEY PLAN

GRAPHIC SCALE

1/2"=1'-0" 0 2" 4"

REVISION BLOCK

MARK	DATE	DESCRIPTION
1	02/15/2023	100% Revision

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

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Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

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ARCHITECT
No. 1301047654
LICENSED ARCHITECT

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230 South Dearborn St.
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Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	RAMP
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	RAMP DETAILS
SHEET NUMBER AND FILENAME	A501

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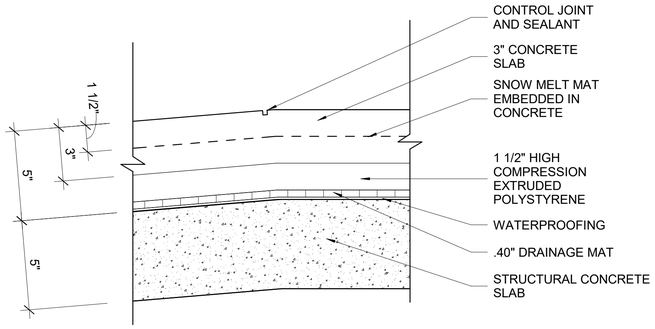
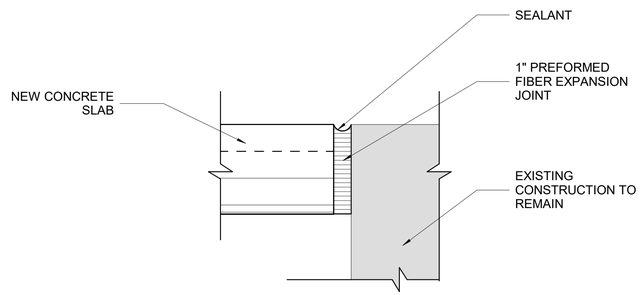
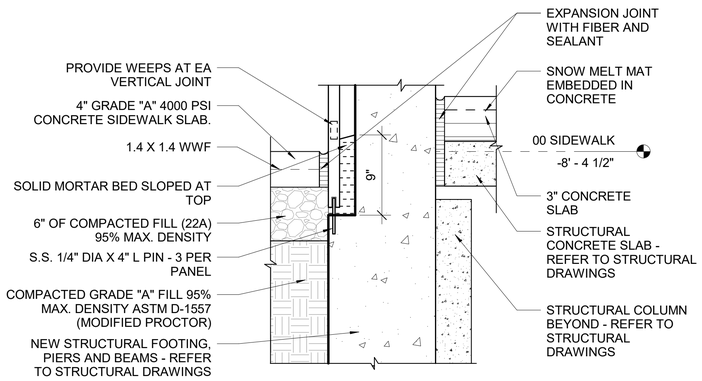


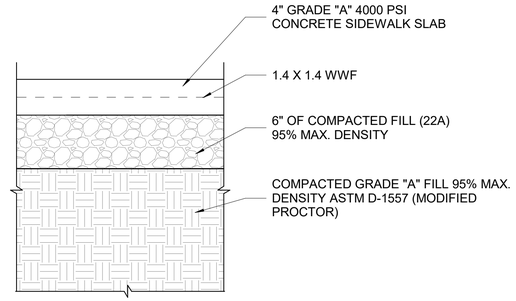
3 A502 TYP. DETAIL FOR NEW RAMP SLAB
3" = 1'-0"



2 A502 TYP DETAIL FOR NEW CONCRETE SLAB ABUTTING (E) CONSTRUCTION TO REMAIN
3" = 1'-0"



4 A502 CITY OF DETROIT SIDEWALK W/ NEW RAMP DETAIL
1 1/2" = 1'-0"



1 A502 CITY OF DETROIT SIDEWALK DETAIL
1 1/2" = 1'-0"

KEY PLAN

GRAPHIC SCALE

1 1/2"=1'-0" 0 1' 2'

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

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SCOTT W. GOODSELL
ARCHITECT
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LICENSED ARCHITECT

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BUILDING

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BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	RAMP
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	RAMP DETAILS
SHEET NUMBER AND FILENAME	A502

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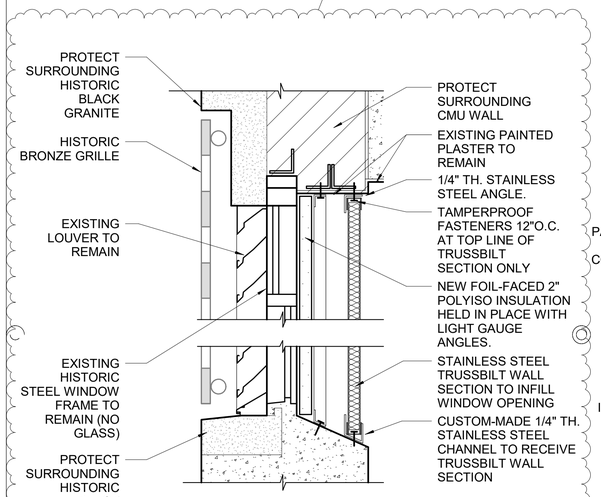
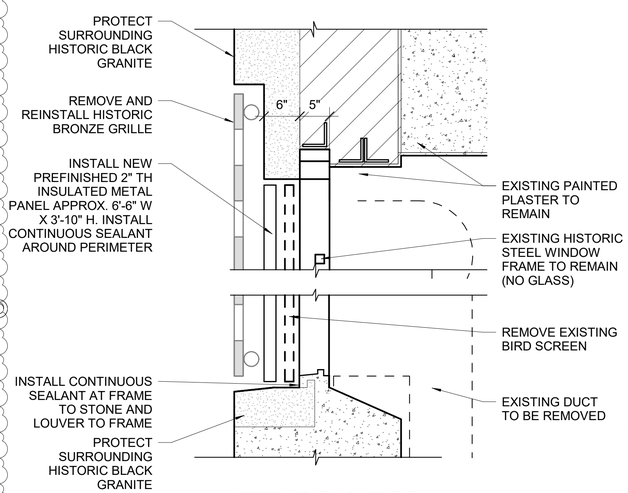
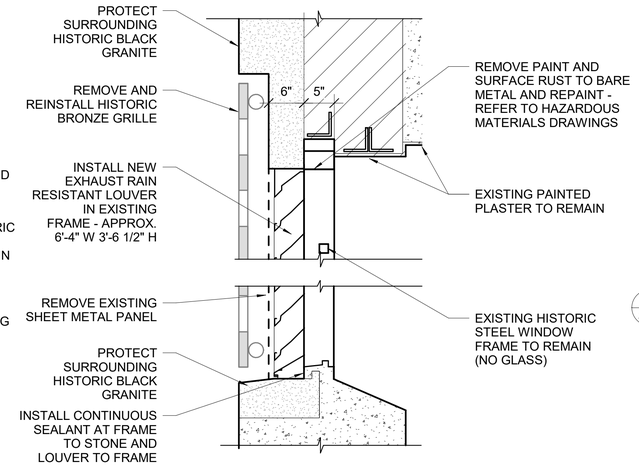


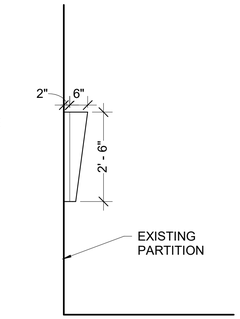
12 A503 SECTION AT NEW BASEMENT (E) LOUVER W/MANBARS
1" = 1'-0"



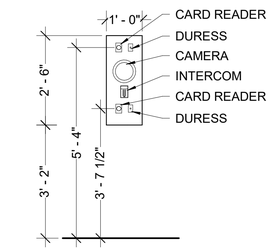
10 A503 SECTION AT NEW BASEMENT PANEL
1" = 1'-0"



8 A503 SECTION AT NEW BASEMENT LOUVER
1" = 1'-0"

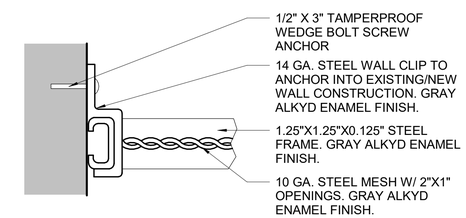


4 A503 WALL MOUNTED CARD READER - SIDE
1/2" = 1'-0"

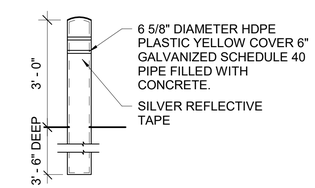


3 A503 WALL MOUNTED CARD READER - FRONT
1/2" = 1'-0"

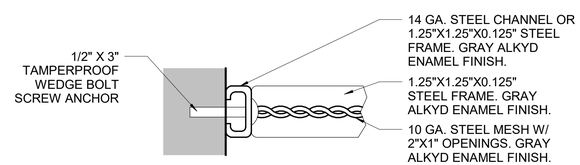
FOR ALL SEALANT THROUGHOUT PRISONER AREAS, INCLUDING BUT NOT LIMITED TO SALLYPORTS, CELLS AND VESTIBULES, THE SEALANT SHALL BE PICKPROOF IN COMPLIANCE WITH USMS PUB 64.



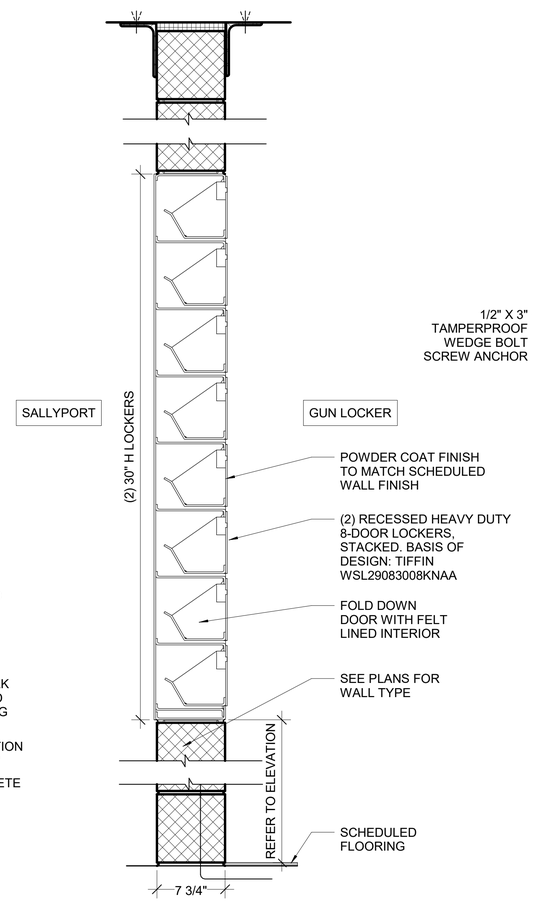
7 A503 WIRE MESH - WALL ANCHOR DETAIL
6" = 1'-0"



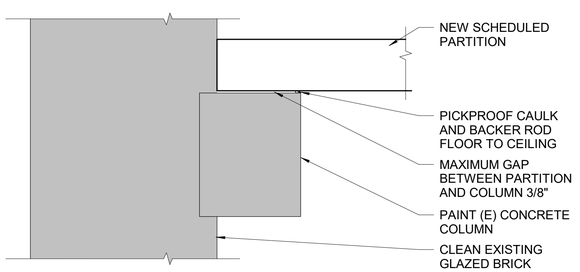
2 A503 CONCRETE BOLLARD
1/2" = 1'-0"



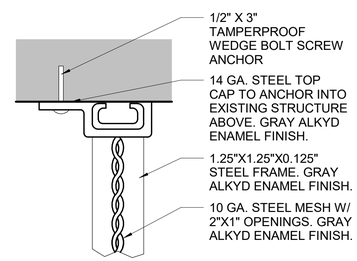
6 A503 WIRE MESH - CHANNEL DETAIL
6" = 1'-0"



9 A503 SECTION AT GUN LOCKER
1 1/2" = 1'-0"

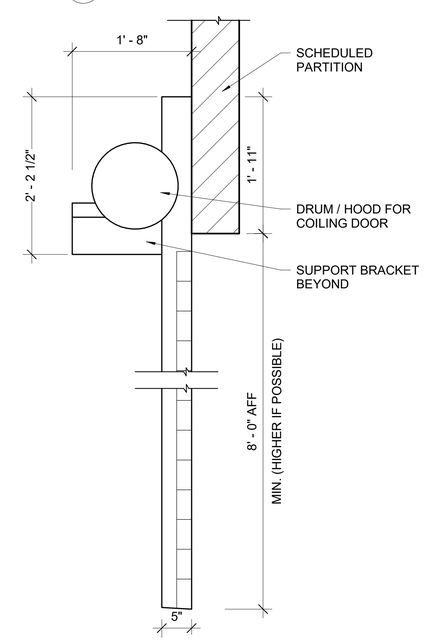


11 A503 SALLYPORT COLUMN PLAN DETAIL
1" = 1'-0"



5 A503 WIRE MESH - ACME TOP CAPPING DETAIL
6" = 1'-0"

NOTE FOR ALL WIRE MESH DETAILS: REPAIR GRAY ALKYD ENAMEL FINISH AS REQUIRED AFTER INSTALLATION.



1 A503 OVERHEAD DOOR DETAIL
1" = 1'-0"

KEY PLAN

GRAPHIC SCALE 1"=1'-0" 0 1' 2'

REVISION BLOCK

MARK	DATE	DESCRIPTION
1	02/15/2023	100% Revision

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BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	VARIOUS
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	DETAIL
SHEET NUMBER AND FILENAME	A503

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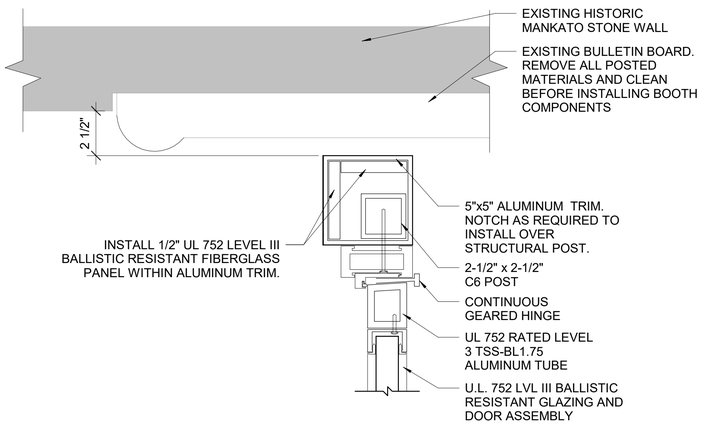
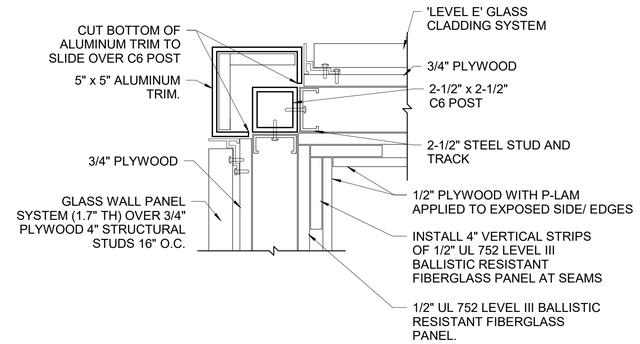
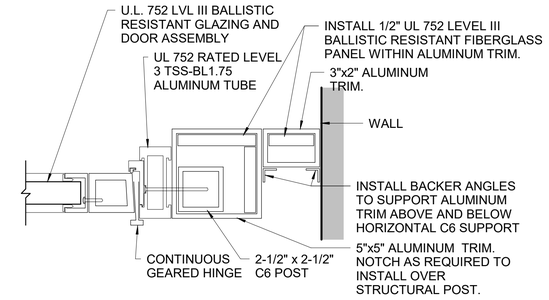


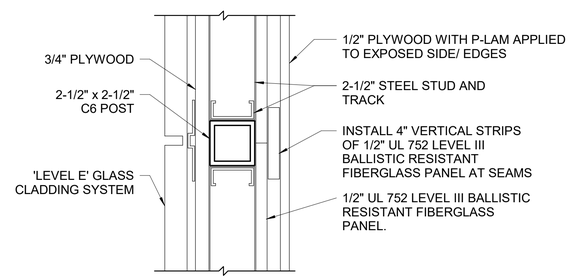
8 A504 FORT STREET (E) BULLETIN BD PLAN DETAIL
3" = 1'-0"



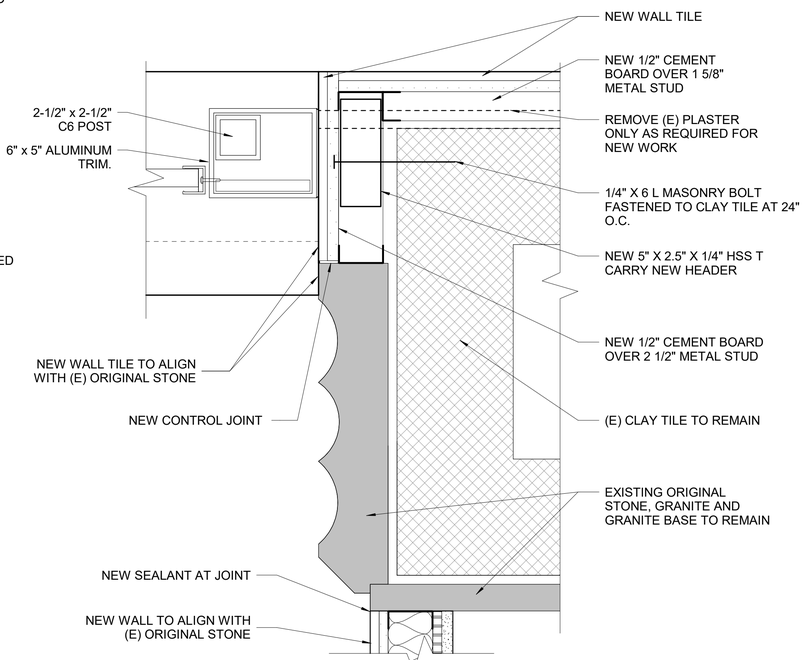
6 A504 GUARD BOOTH CORNER DETAIL
3" = 1'-0"



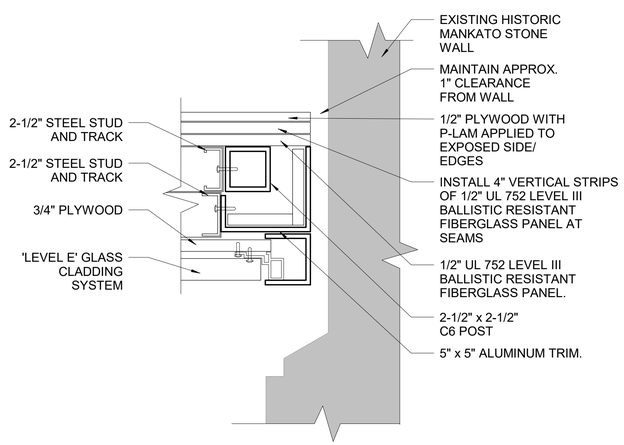
3 A504 GUARD BOOTH DOOR JAMB DETAIL
3" = 1'-0"



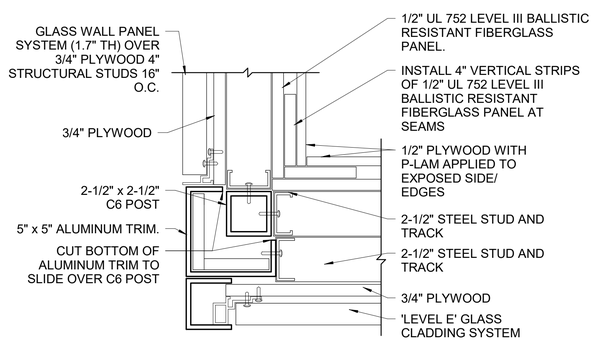
5 A504 GUARD BOOTH LOWER PLAN DETAIL
3" = 1'-0"



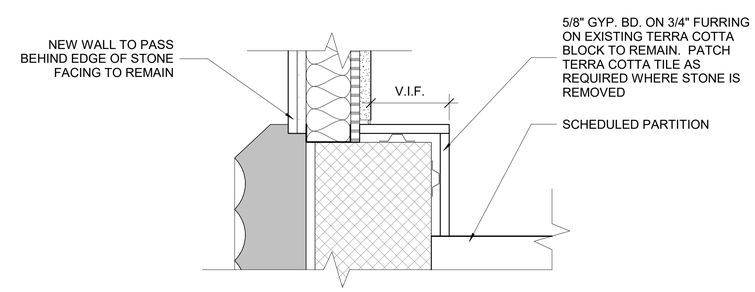
2 A504 LAFAYETTE GUN LOCKER PLAN DETAIL WITH (E) STONE TO REMAIN
3" = 1'-0"



7 A504 FORT STREET SOUTH POST OF BOOTH PLAN DETAIL
3" = 1'-0"



4 A504 GUARD BOOTH CORNER DETAIL W/TRANSACTION WINDOW
3" = 1'-0"



1 A504 LAFAYETTE GUN LOCKER PLAN DETAIL
3" = 1'-0"

KEY PLAN

GRAPHIC SCALE

3"=1'-0" 0 1/2" 1'

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

STAMP OR SEAL

STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047654
LICENSED ARCHITECT

OWNER IDENTIFICATION

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
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CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	DETAIL
SHEET NUMBER AND FILENAME	A504

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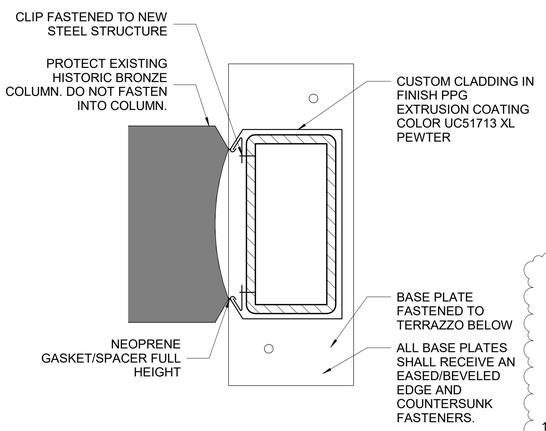
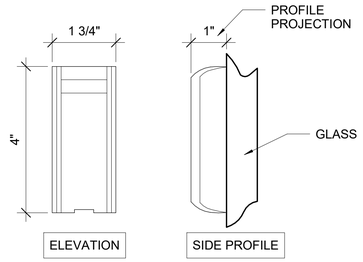
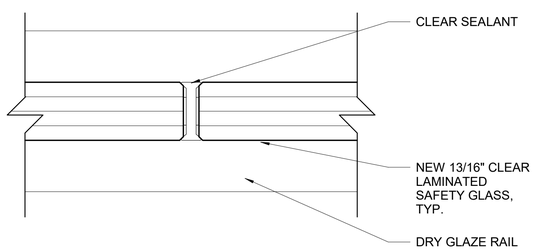


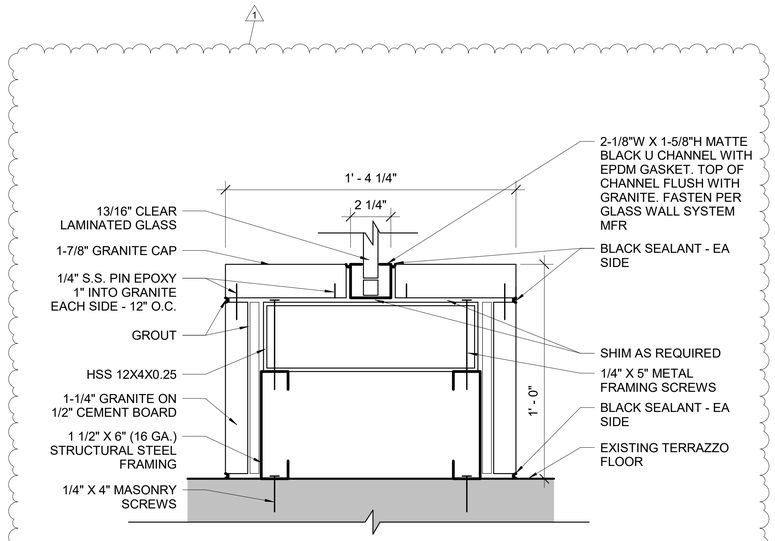
9 A505 LAFT. (E) COLUMN MEETS NEW
6" = 1'-0"



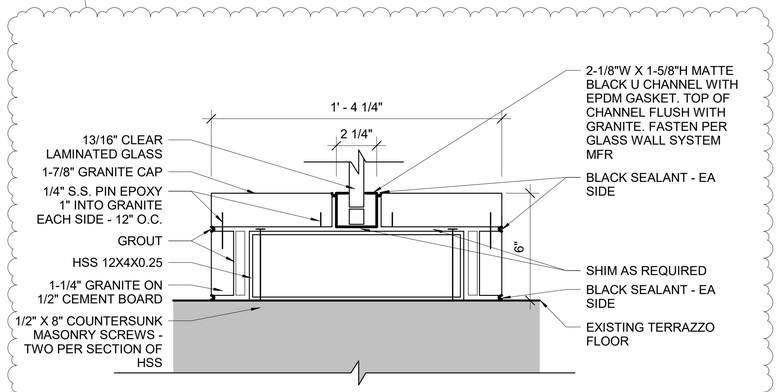
8 A505 CARD READER DETAILS
6" = 1'-0"



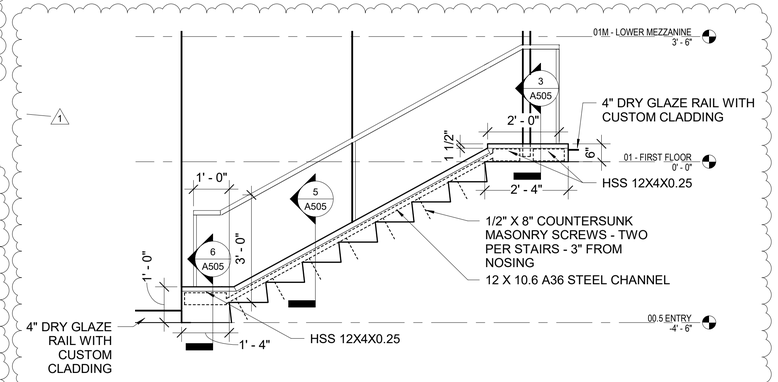
7 A505 GLASS PARTITION JOINT SEALANT DETAIL
12" = 1'-0"



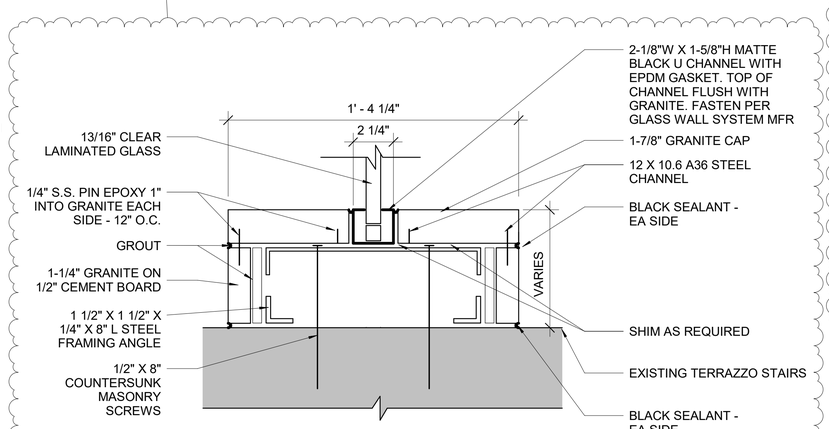
6 A505 LAFAYETTE SECTION AT BOTTOM OF GRANITE SHOE BASE
3" = 1'-0"



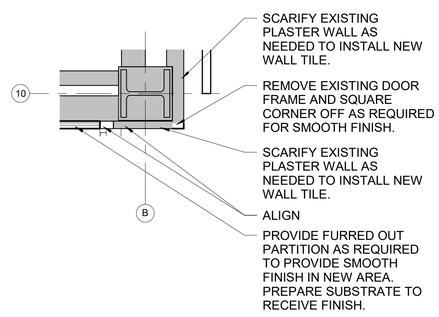
3 A505 LAFAYETTE SECTION AT TOP OF GRANITE SHOE BASE
3" = 1'-0"



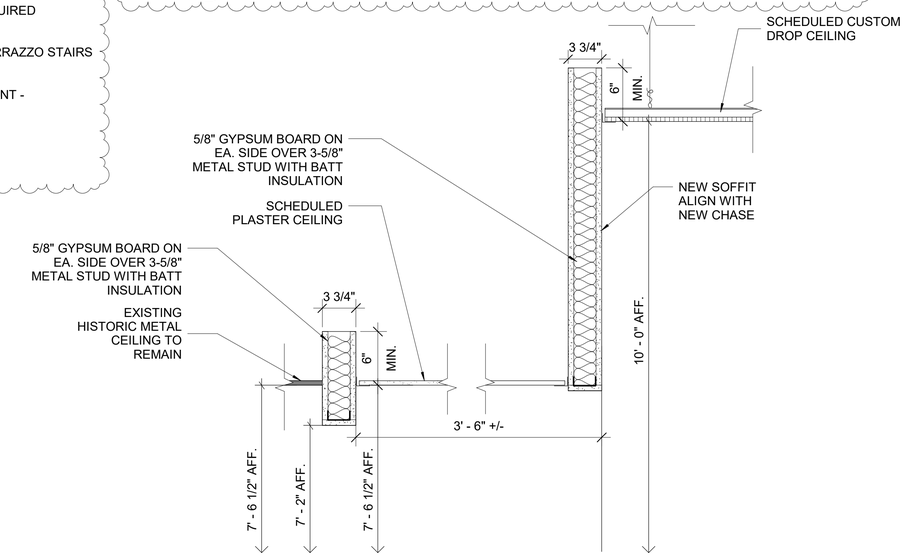
2 A505 LAFAYETTE STAIR ELEVATION DETAIL
1/2" = 1'-0"



5 A505 LAFAYETTE SECTION AT MIDDLE OF GRANITE SHOE BASE
3" = 1'-0"



4 A505 FIRST FLOOR - NORTH LAFAYETTE FLOOR PLAN COLUMN 67 DETAIL
1/2" = 1'-0"



1 A505 LIFT CORRIDOR SOFFIT DETAIL
1 1/2" = 1'-0"

KEY PLAN

GRAPHIC SCALE
1 1/2"=1'-0" 0 1' 2'

REVISION BLOCK

MARK	DATE	DESCRIPTION
1	02/15/2023	100% Revision

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
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CONSULTANT IDENTIFICATION

STAMP OR SEAL

STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047664
LICENSED ARCHITECT

OWNER IDENTIFICATION

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	DETAILS
SHEET NUMBER AND FILENAME	A505

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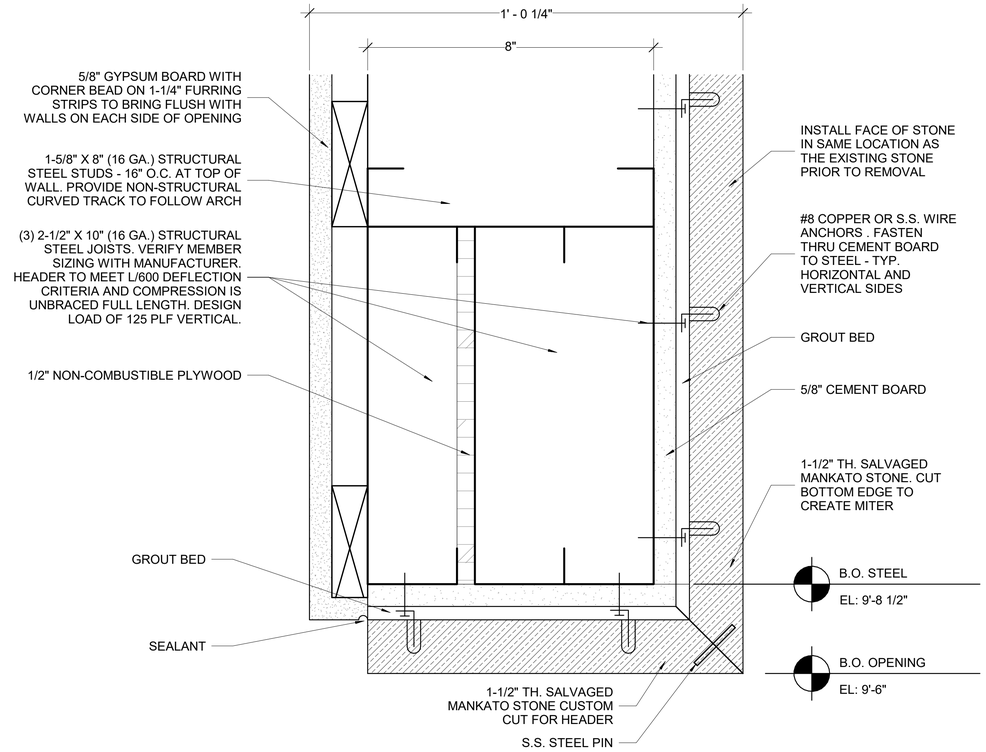
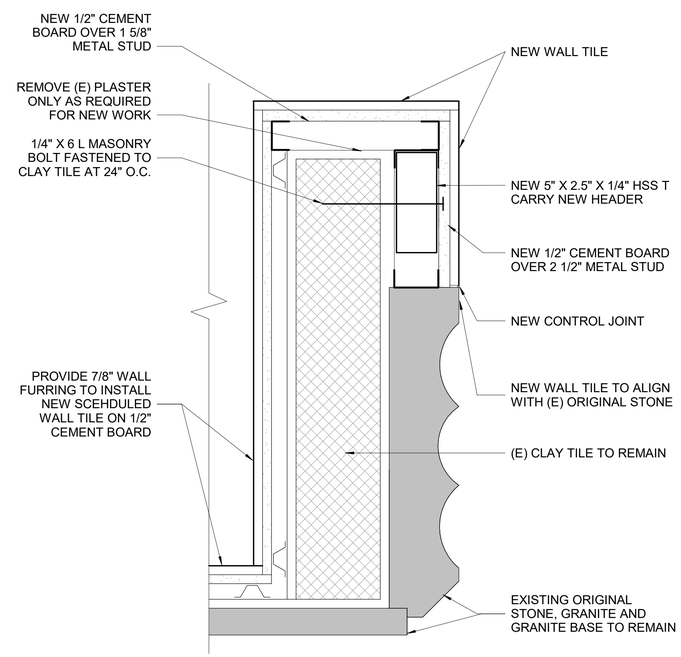


2 A506 REINSTALL SALVAGED STONE HEADER
6" = 1'-0"



1 A506 LAFAYETTE PLAN DETAIL WITH (E) STONE TO REMAIN
3" = 1'-0"

KEY PLAN

GRAPHIC SCALE

3"=1'-0" 0 1/2" 1'

REVISION BLOCK

MARK	DATE	DESCRIPTION
1	02/15/2023	100% Revision

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

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PROJECT

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DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	DETAILS
SHEET NUMBER AND FILENAME	A506

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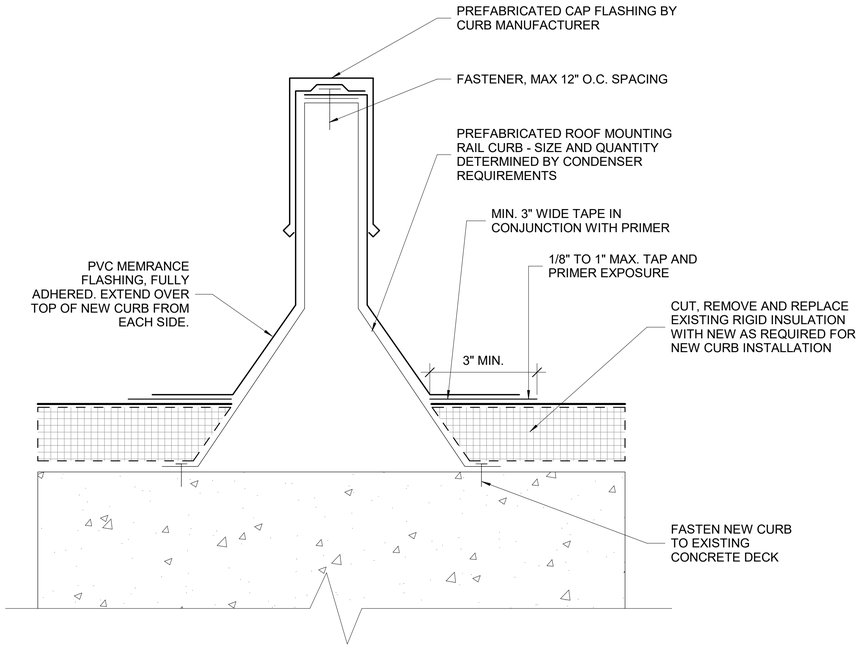
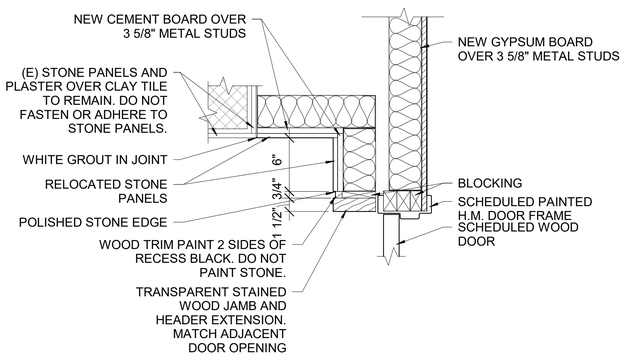
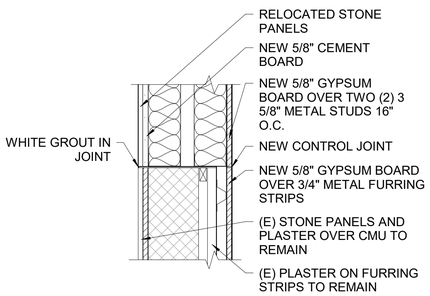


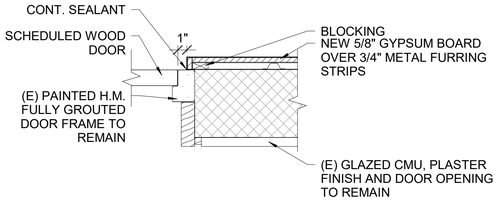
12 / A507 ROOF MOUNTED CURB DETAIL
6" = 1'-0"



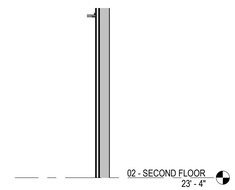
11 / A507 SECOND FLOOR NEW CHASE PLAN DETAIL
1 1/2" = 1'-0"



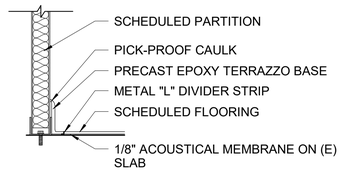
10 / A507 SECOND FLOOR NEW WALL MEETS (E) WALL PLAN DETAIL
1 1/2" = 1'-0"



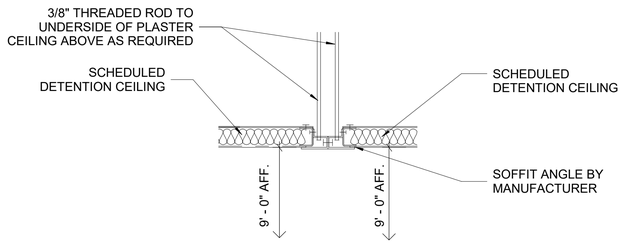
9 / A507 SECOND FLOOR NEW DOOR WITH (E) DOOR FRAME PLAN DETAIL
1 1/2" = 1'-0"



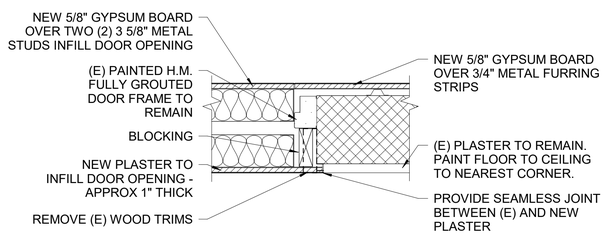
8 / A507 NEW SECTION AT WALL TYPE H ON (E) PARTITION
1/4" = 1'-0"



7 / A507 FLOOR BASE DETAIL
1 1/2" = 1'-0"

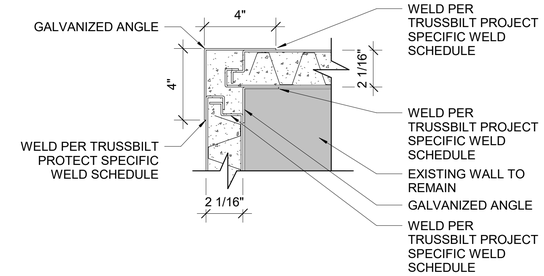


6 / A507 SECOND FLOOR ELEVATOR SALLYPORT SOFFIT - DETAIL
1 1/2" = 1'-0"

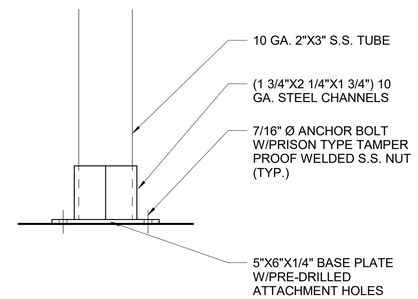


5 / A507 SECOND FLOOR NEW WALL INFILL PLAN DETAIL
1 1/2" = 1'-0"

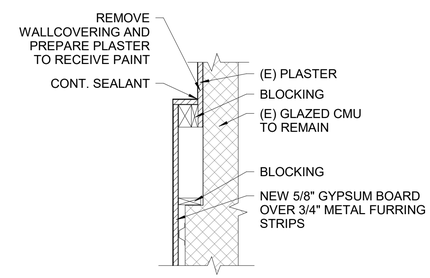
FOR ALL SEALANT THROUGHOUT PRISONER AREAS, INCLUDING BUT NOT LIMITED TO SALLYPORTS, CELLS AND VESTIBULES, THE SEALANT SHALL BE PICKPROOF IN COMPLIANCE WITH USMS PUB 64.



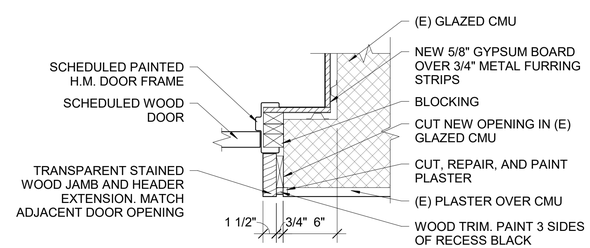
4 / A507 SECOND FLOOR CORNER PLAN DETAIL
3" = 1'-0"



3 / A507 PRIVACY SCREEN - DETAIL
3" = 1'-0"



2 / A507 SECOND FLOOR PLAN DETAIL
1 1/2" = 1'-0"



1 / A507 SECOND FLOOR NEW DOOR PLAN DETAIL
1 1/2" = 1'-0"

KEY PLAN

GRAPHIC SCALE
1 1/2"=1'-0" 0 1' 2'

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

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BUILDING

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BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	SECOND FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	DETAIL
SHEET NUMBER AND FILENAME	A507

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LEVIN CSP DOOR SCHEDULE

DOOR NUMBER	ROOM NAME	DOOR TYPE	DOOR SIZE WIDTH (FEET)	DOOR SIZE HEIGHT (FEET)	DOOR MATERIAL	DOOR FINISH	FRAME PHASE	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	DETAILS HEAD	DETAILS JAMB	HARDWARE SET	FIRE RATING	GLAZING	REMARKS
-01 - BASEMENT FLOOR																
B34	ACCESS PANEL	-	2' - 4"	3' - 4"	DHM	PT	NEW	-	DHM	PT	-	-	-	-	-	5
B42	VACANT	A	3' - 0"	7' - 0"	H.M.	PT	NEW	1	H.M.	PT	4/A603	4/A603	11.0	-	-	
B43	ELECTRICAL CLOSET	G	4' - 0"	7' - 0"	DHM	PT	NEW	10	DHM	PT	10/A603	8/A603	DET1.0	-	-	
B44A	SECURE VESTIBULE	B	3' - 0"	7' - 0"	DHM	PT	NEW	7	DHM	PT	6/A603	2/A603	DET2.0	-	ASTM F1233	
B44B	SECURE VESTIBULE	B	3' - 0"	7' - 0"	DHM	PT	NEW	7	DHM	PT	6/A603	2/A603	DET2.0	-	ASTM F1233	
B46A	VEHICLE SALLYPORT	F	22' - 0"	8' - 0"	ALUM	ANOD	NEW	-	ALUM	ANOD	-	-	16.0	-	-	
B47	GUN LOCKER	A	3' - 0"	7' - 0"	DHM	PT	NEW	7	DHM	PT	6/A603	2/A603	DET3.0	-	-	
B48	ELECTRICAL CLOSET	A	3' - 0"	7' - 0"	DHM	PT	NEW	1	DHM	PT	6/A603	6/A603	DET1.0	-	-	
B49	ELEVATOR SALLYPORT	B	3' - 0"	7' - 0"	DHM	PT	NEW	7	DHM	PT	6/A603	2/A603	DET2.0	-	ASTM F1233	
B49A	ACCESS PANEL	-	1' - 4"	1' - 4"	DHM	PT	NEW	-	DHM	PT	-	-	-	-	-	5
00.5 ENTRY																
180A	ENTRY VESTIBULE	EXST.	5' - 0"	6' - 11"	EXST.	EXST.	EXST	EXST.	EXST.	EXST.	-	-	1.0	-	-	
180B	ENTRY VESTIBULE	EXST.	5' - 0"	6' - 11"	EXST.	EXST.	EXST	EXST.	EXST.	EXST.	-	-	17.0	-	-	1
180C	ENTRY VESTIBULE	EXST.	5' - 0"	6' - 11"	EXST.	EXST.	EXST	EXST.	EXST.	EXST.	-	-	20.0	-	-	
180D	ENTRY VESTIBULE	EXST.	5' - 0"	6' - 11"	EXST.	EXST.	EXST	EXST.	EXST.	EXST.	-	-	20.0	-	-	
181A	ENTRY VESTIBULE	EXST.	5' - 0"	6' - 10"	EXST.	EXST.	EXST	EXST.	EXST.	EXST.	-	-	17.0	-	-	
181B	ENTRY VESTIBULE	EXST.	5' - 0"	6' - 11"	EXST.	EXST.	EXST	EXST.	EXST.	EXST.	-	-	20.0	-	-	
182	ENTRY LOBBY	D	3' - 4"	6' - 9 1/2"	GLASS	CLEAR	NEW	-	ALUM	ANOD	-	-	3.0			
182A	STAIR	A	3' - 0"	7' - 0"	EXST.	EXST.	EXST	EXST.	EXST.	PT	-	-	23.0	-	-	
183	GUARD BOOTH	I	3' - 0"	6' - 9 1/2"	GLASS	CLEAR	NEW	8	ALUM	ANOD	7/A603	1/A603	2.0	-	UL 752 LVL III	
185A	ENTRY VESTIBULE	EXST.	5' - 0"	6' - 11"	EXST.	EXST.	EXST	EXST.	EXST.	EXST.	-	-	1.0	-	-	9/A603
185B	ENTRY VESTIBULE	EXST.	5' - 0"	6' - 11"	EXST.	EXST.	EXST	EXST.	EXST.	EXST.	-	-	17.0	-	-	1
185C	ENTRY VESTIBULE	EXST.	5' - 0"	6' - 11"	EXST.	EXST.	EXST	EXST.	EXST.	EXST.	-	-	20.0	-	-	
185D	ENTRY VESTIBULE	EXST.	5' - 0"	6' - 11"	EXST.	EXST.	EXST	EXST.	EXST.	EXST.	-	-	20.0	-	-	
186A	ENTRY VESTIBULE	EXST.	5' - 0"	6' - 10"	EXST.	EXST.	EXST	EXST.	EXST.	EXST.	-	-	21.0	-	-	9/A603
186B	ENTRY VESTIBULE	EXIST	5' - 0"	6' - 11"	EXST.	EXST.	EXST	EXST.	EXST.	EXST.	-	-	22.0	-	-	9/A603
188	ENTRY LOBBY	D	3' - 2"	6' - 9 1/2"	GLASS	CLEAR	NEW	-	ALUM	ANOD	-	-	3.0			
01 - FIRST FLOOR																
100	CORRIDOR	K	5' - 4"	7' - 0"	WD	STN	NEW	4	HM	PT	4/A603	4/A603	6.0			
102	SECURITY CLOSET	EXIST	6' - 0"	7' - 0"	EXIST	EXST.	NEW	9	EXIST	PT	4/A603	4/A603	EXIST	-	-	OPTION #1
189	GUN LOCKER	C	2' - 6"	7' - 0"	WD	STN.	NEW	2	WD.	PT	6/A603	2/A603	15.0	-	-	3
190	GUARD BOOTH	I	3' - 0"	6' - 9 1/2"	GLASS	CLEAR	NEW	8	ALUM	ANOD	7/A603	1/A603	2.0	-	UL 752 LVL III	
192	STAIR	EXST.	3' - 0"	7' - 0"	WD	STN	EXST	EXST.	EXST.	PT			18.0			2
193	ELECTRICAL CLOSET	EXST.	3' - 0"	7' - 0"	WD	STN.	EXST	EXST.	EXST.	PT	-	-	19.0	-	-	2
194	ELECTRICAL CLOSET	EXST.	2' - 4"	7' - 0"	WD	STN	EXST	EXST.	EXST.	EXST.	-	-	20.0			6,7
02 - SECOND FLOOR																
201	ELEVATOR SALLYPORT	B	3' - 0"	7' - 0"	DHM	PT	NEW	7	DHM	PT	6/A603	2/A603	DET4.0	-	ASTM F1233	OPTION #1
201A	CELL 1	B	3' - 0"	7' - 0"	DHM	PT	NEW	7	DHM	PT	6/A603	2/A603	DET4.0	-	ASTM F1233	OPTION #1
201B	CELL 1	E	3' - 0"	8' - 10"	SS	SS	NEW	7	SS	SS	6/A308	5/A308	DET5.0	-	-	OPTION #1
201C	CELL 2	B	3' - 0"	7' - 0"	DHM	PT	NEW	7	DHM	PT	6/A603	2/A603	DET4.0	-	ASTM F1233	OPTION #1
201D	CELL 2	E	3' - 0"	8' - 10"	SS	SS	NEW	7	SS	SS	6/A308	5/A308	DET5.0	-	ASTM F1233	OPTION #1
201E	ACCESS PANEL	-	1' - 10"	2' - 10"	DHM	PT	NEW	-	DHM	PT	-	-	-	-	-	4, 5 - OPTION #1
201F	ACCESS PANEL	-	1' - 10"	2' - 10"	DHM	PT	NEW	-	DHM	PT	-	-	-	-	-	4, 5 - OPTION #1
205	CORRIDOR	A	3' - 0"	7' - 0"	WD	STN.	NEW	2	WD	STN	-	3/A603	8.0	-	-	OPTION #1
205A	CORRIDOR	A	3' - 0"	7' - 0"	WD	STN	NEW	2	WD	STN	-	3/A603	8.0	-	-	OPTION #1
205B	CORRIDOR	A	3' - 0"	7' - 0"	WD	STN.	NEW	2	WD	STN	-	3/A603	7.0	-	-	OPTION #1
205C	USMS SECURITY PANEL CLOSET	J	3' - 0"	7' - 0"	WD	STN.	NEW	2	WD	STN	-	3/A603	10.0	-	-	OPTION #1
208	BREAK ROOM	A	3' - 0"	7' - 0"	WD	STN.	NEW	2	WD.	PT	-	3/A603	12.0	-	-	OPTION #1
290	CONFERENCE	A	3' - 0"	7' - 0"	WD.	STN.	NEW	2	WD.	STN	-	3/A603	12.0	-	-	OPTION #1
290A	CONFERENCE	A	3' - 0"	7' - 0"	WD.	STN.	NEW	2	WD.	STN	-	3/A603	13.0	-	-	OPTION #1
293	ELECTRICAL CLOSET	A	3' - 0"	7' - 0"	DHM	PT	NEW	1*	DHM	PT	-	6/A603	DET6.0	-	-	OPTION #1
293.1	ELECTRICAL CLOSET	EXST.	2' - 4"	7' - 0"	EXIST	EXIST			EXIST				20.0			OPTION #1
Grand total: 49																

1

GENERAL NOTES:

1. REFER TO SPECIFICATIONS 08 06 71 FOR HARDWARE SET INFORMATION.
2. FOR THE HARDWARE SET COLUMN, THE NUMBER REFERS TO THE SPECIFICATION SECTION 08 06 71 AND IF THE NUMBER IS PRECEDED BY "DET", IT REFERS TO SPECIFICATION SECTION 08 71 63.

DOOR SCHEDULE REMARKS:

1. REMOVE AND SALVAGE EXTERIOR PULL.
2. REINSTALL RELOCATED, EXISTING HISTORIC DOOR FROM ATTIC STOCK. REFINISH WOOD DOOR, STRIP TO BARE WOOD, REPAIR, STAIN AND VARNISH. MODIFY DOOR LEAF AS REQUIRED TO ACCEPT DOOR SWING. MODIFY DOOR LEAF AS REQUIRED TO RECEIVE NEW HARDWARE.
3. UL 752 LEVEL III BALLISTIC WOOD CLAD DOOR PANEL.
4. REFER TO DETAIL 15/A-205.
5. REFER TO SPECIFICATION SECTION 08 34 63 FOR ACCESS PANEL AND LOCK SPECIFICATIONS.
6. REFINISH WOOD DOOR. STRIP TO BARE WOOD, REPAIR, STAIN AND VARNISH. RETAIN EXISTING HARDWARE.
7. REMOVE PAINTED FINISH FROM EXISTING HINGES AND REINSTALL.
8. WHERE BALLISTIC RATINGS ARE CALLED FOR ALL DOOR, FRAME AND GLAZING COMPONENTS SHALL MEET THE LEVEL OF BALLISTIC RESISTANCE SPECIFIED.

LEGEND:

WD.	WOOD
STN.	STAIN
H.M.	HOLLOW METAL
PT	PAINTED
ALUM	ALUMINUM
DHM	DETENTION HOLLOW METAL
RELO	RELOCATED
ST	STEEL
ANOD	ANODIZE
F05	CLASSROOM LOCKSET
F07	STORAGE LOCKSET

KEY PLAN

GRAPHIC SCALE

REVISION BLOCK

MARK	DATE	DESCRIPTION
1	02/15/2023	100% Revision

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

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Public Buildings Service
Great Lakes

Customer Projects Service Center
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230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	VARIOUS
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	DOOR SCHEDULE
SHEET NUMBER AND FILENAME	A601

PROPERTY OF THE UNITED STATES GOVERNMENT. This is controlled unclassified information. Do not remove the CUI marking. Properly destroy or return documents when no longer needed.

	TYPE OF HINGES							PUSH SIDE OF DOOR				PULL SIDE OF DOOR																				
DOOR NUMBER	INST.	DET.	ELEC.	CONT.	STD.	DEADLATCH LOCK 120	ELEC. MORTISE LOCK 600	SCRAMBLE PAD	INTERCOM	INTERCOM W/ DURESS	KEYPAD	SCRAMBLE PAD	INTERCOM	INTERCOM W/ DURESS	KEYPAD	DPS	DPS W/ CLOSER	B.S. CLOSER	IML	DL	MORTISE LOCKSET	FLUSH DOOR PULL	CARD READER	ELEC. STRIKE	VISION SCOPE	SMOKE SEALS	ADB	THRESHOLD	SILENCERS	DETENTION FLOOR STOP	WALL STOP	STENCILED NUMBER ON DOOR - EA SIDE	DOOR NUMBER
B34	X									DURESS										X													B34
B43	X																X		X		X F05								X	X			B43
B44A	X					X (1)		X		X		X		X			X					X								X	X		X	B44A
B44B	X					X (1)		X		X		X		X			X					X								X	X		X	B44B
B47	X					X (4)						X					X								X				X	X		X	B47
B48	X																	X	X		X F07								X	X			B48
B49	X					X (1)		X		X		X		X			X					X								X	X		X	B49
B49A	X																			X													B49A
201	X					X (1)		X		X		X		X			X				X F07	X				X	X	X	X	X		X	201
201A	X					X (1)		X		X		X		X			X									X	X		X	X		X	201A
201C	X					X (1)		X		X		X		X			X									X	X		X	X		X	201C
201B		X				X (2)										X						X (3)							X			X	201B
201D		X				X (2)										X						X (3)							X			X	201D
201E	X																			X													201E
201F	X																			X													201F
293	X															X					X F07		X	X				X	X		X		293

(1) KEYED ON BOTH SIDES
(2) KEYED ON OUTSIDE ONLY, NO FREE EGRESS
(3) PULL ON CORRIDOR SIDE ONLY
(4) KEYED ON OUTSIDE ONLY, FREE EGRESS

LEGEND:

ADB	AUTOMATIC DOOR BOTTOM
B.S.	BUILDING STANDARD
CONT.	CONTINUOUS
DET.	DETENTION
DL	DEADLOCK
DPS	DOOR POSITION SWITCH
ELEC.	ELECTRIC TRANSFER
IML	INSTITUTIONAL MECHANICAL LOCKSET
INST.	INSTITUTIONAL
STD.	BUILDING STANDARD

KEY PLAN

GRAPHIC SCALE

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
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CONST. CONTRACT NO.	

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John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	VARIOUS
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	DOOR SCHEDULE
SHEET NUMBER AND FILENAME	A602

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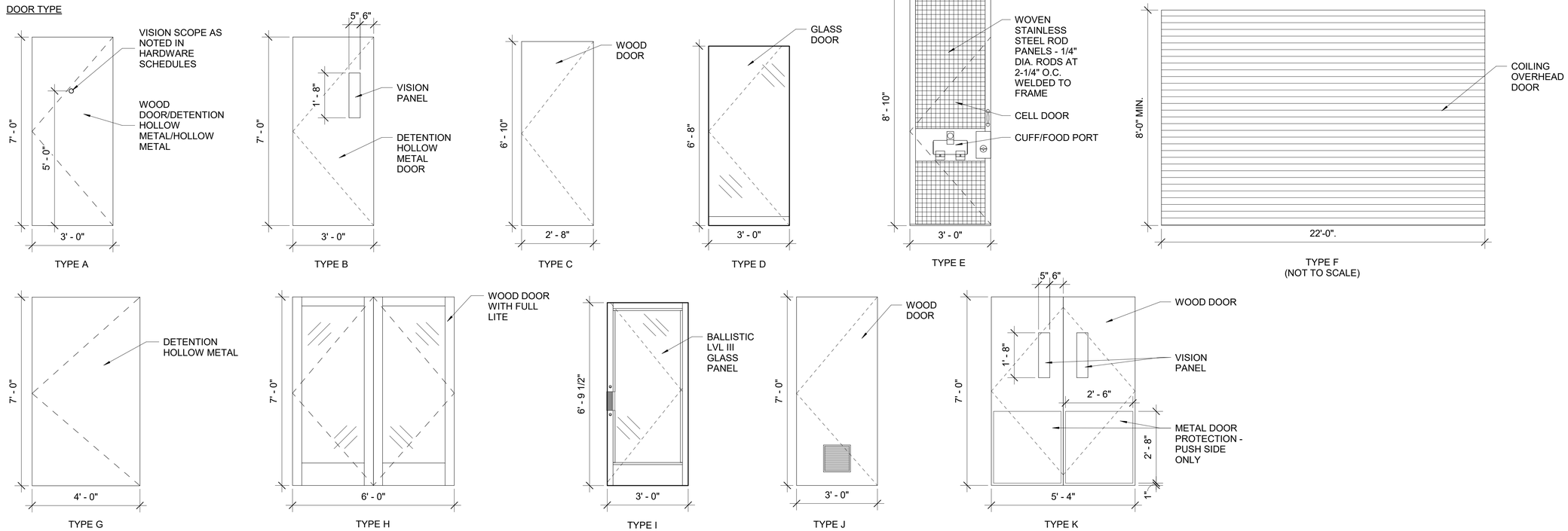
DOOR TYPE



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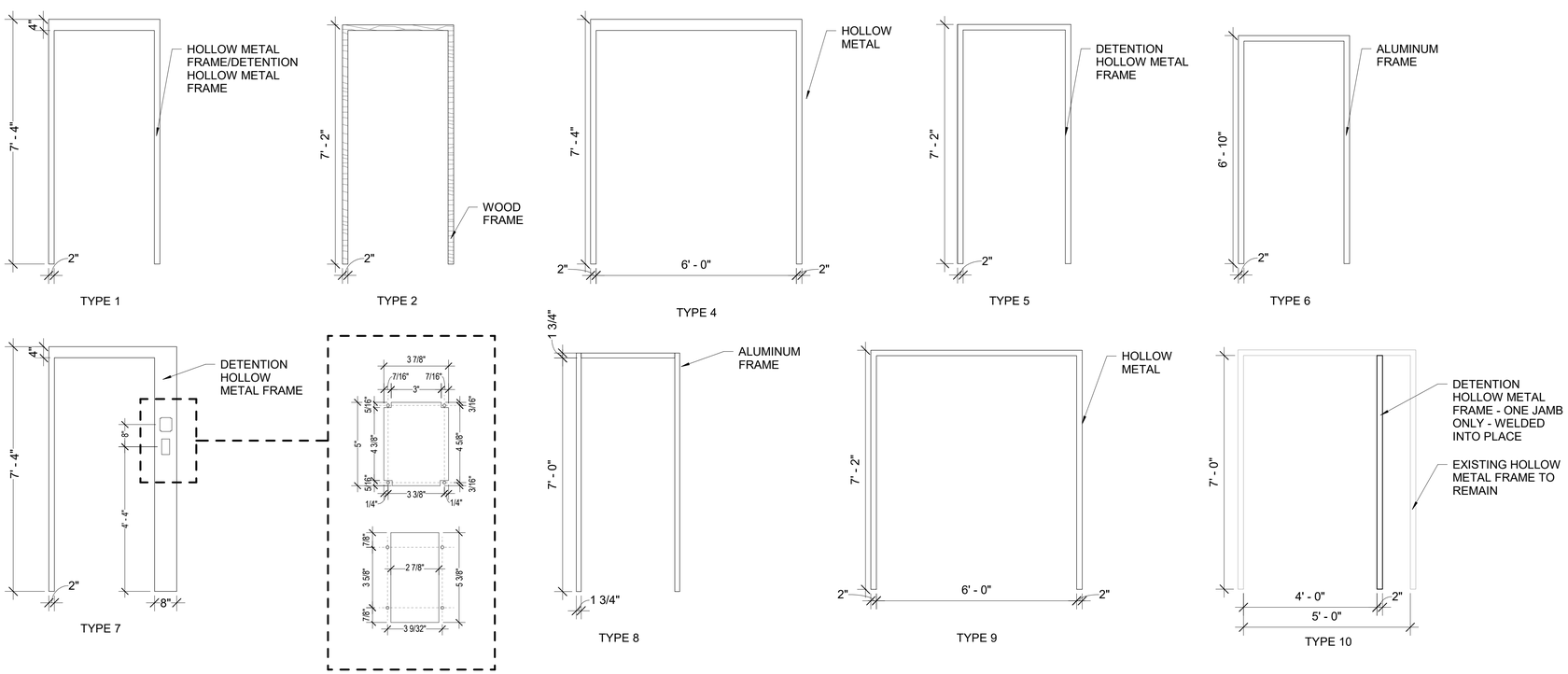

KEY PLAN

GRAPHIC SCALE

1/2"=1'-0" 0 2" 4"

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

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STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047664
LICENSED ARCHITECT

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GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	VARIOUS
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	DOOR DETAILS
SHEET NUMBER AND FILENAME	A603

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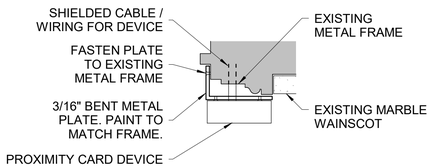
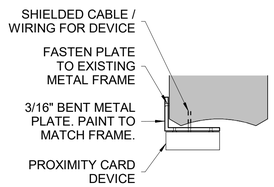
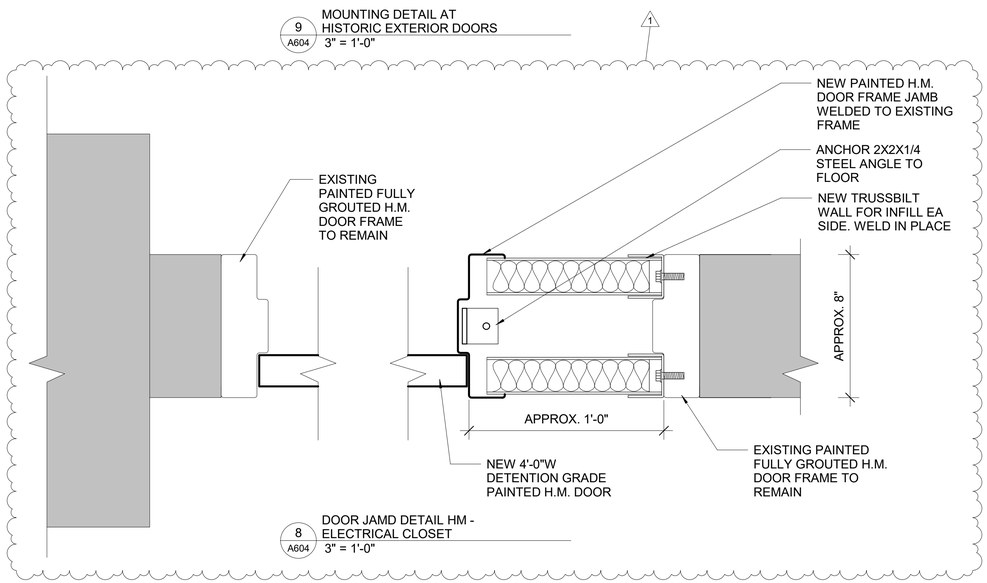


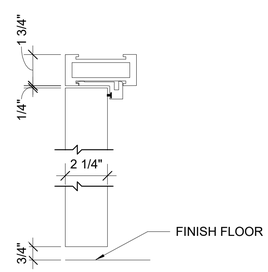
10 A604 MOUNTING DETAIL AT HISTORIC INTERIOR DOORS
3" = 1'-0"



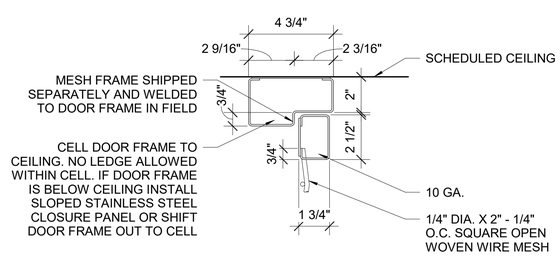
9 A604 MOUNTING DETAIL AT HISTORIC EXTERIOR DOORS
3" = 1'-0"



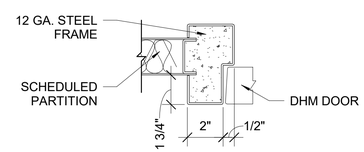
8 A604 DOOR JAMD DETAIL HM - ELECTRICAL CLOSET
3" = 1'-0"



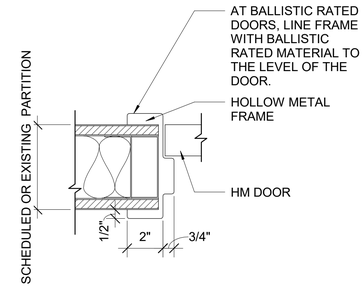
7 A604 DOOR HEAD DETAIL ALUM
3" = 1'-0"



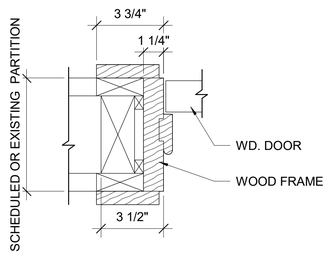
5 A604 DOOR HEAD DETAIL SS
3" = 1'-0"



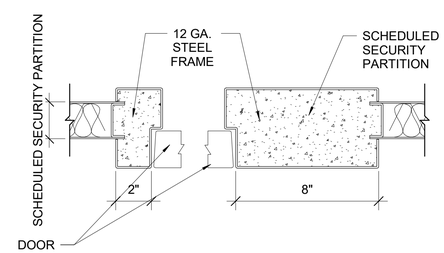
6 A604 DOOR JAMB DETAIL DHM
3" = 1'-0"



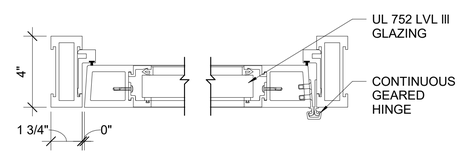
4 A604 DOOR JAMB/HEAD DETAIL HM
3" = 1'-0"



3 A604 DOOR JAMB DETAIL WD
3" = 1'-0"



2 A604 DOOR JAMB DETAIL D
3" = 1'-0"



1 A604 DOOR JAMB DETAIL ALUM
3" = 1'-0"

KEY PLAN

GRAPHIC SCALE

3"=1'-0" 0 1/2" 1'

REVISION BLOCK

MARK	DATE	DESCRIPTION
1	02/15/2023	100% Revision

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PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	VARIOUS
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	DOOR DETAILS
SHEET NUMBER AND FILENAME	A604

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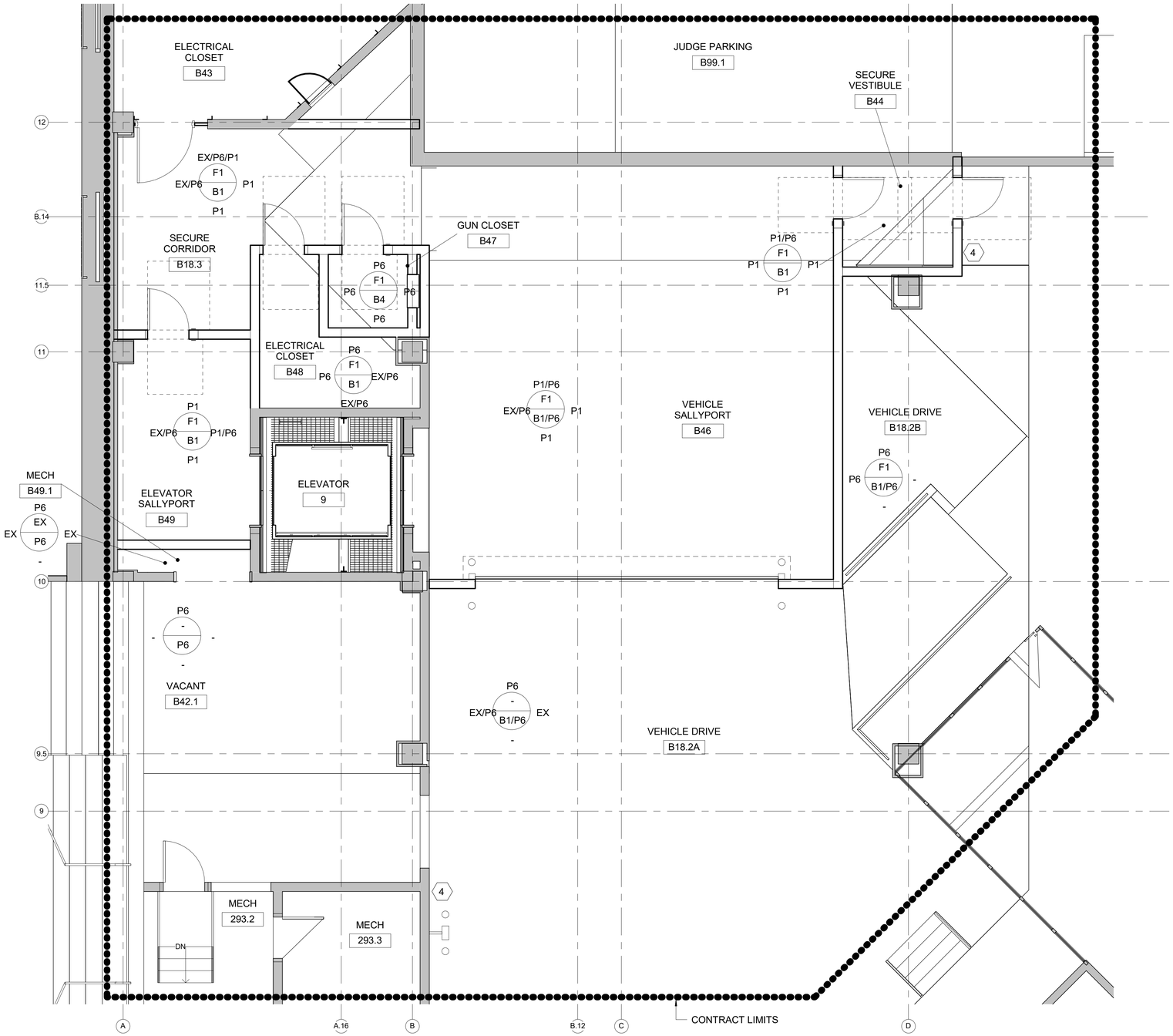


N

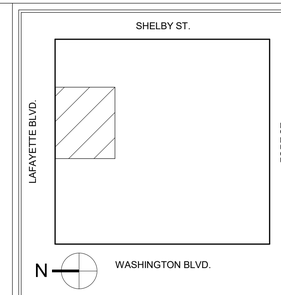
1 / I100 BASEMENT FLOOR - VEHICLE SALLYPORT FINISH PLAN - NEW
1/4" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
2. SAMPLES OF ALL FINISHES SHALL BE SUBMITTED TO GSA AND TENANT AGENCY FOR APPROVAL PRIOR TO INSTALLATION. SUBMITTALS SHALL INCLUDE LOCATIONS FOR ALL FINISHES.
3. ALL INTERIOR FINISHES (WALL COVERING, CEILING TILE, ETC). SHALL COMPLY WITH GSA CRITERIA FOR FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS AND SHALL MEET GSA REQUIREMENTS.
4. PROVIDE COVED BASE FOR ALL FLOORING U.N.O. REFER TO FINISH SCHEDULE I-601.
5. DOOR FRAMES TO BE PAINTED TO MATCH SCHEDULED WALL PAINT WITH SEMI-GLOSS FINISH U.N.O.
6. REFER TO DRAWING I-601 FOR FINISH SCHEDULE.
7. CONTRACTOR IS RESPONSIBLE TO PREPARE ALL SURFACES TO RECEIVE SCHEDULED FINISH. REFER TO SPECIFICATIONS.

LEGEND

- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- EXISTING DOOR AND FRAME TO REMAIN
- NEW DOOR AND FRAME
- X — INDICATES FLOOR MATERIAL USED IN THIS AREA
- X — INDICATES WALL FINISH ON SURFACE TO WHICH ARROW IS POINTING
- X — INDICATES BASE USED IN THIS AREA
- X — INDICATES MILLWORK USED IN THIS AREA
- ABAAS DOOR / EQUIPMENT CLEARANCE
- X — NEW SIGNAGE - REFER TO I-604



KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

CONSULTANT IDENTIFICATION

STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047664
LICENSED ARCHITECT

STAMP OR SEAL

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	BASEMENT FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	NEW FINISH PLAN
SHEET NUMBER AND FILENAME	I100

SHEET

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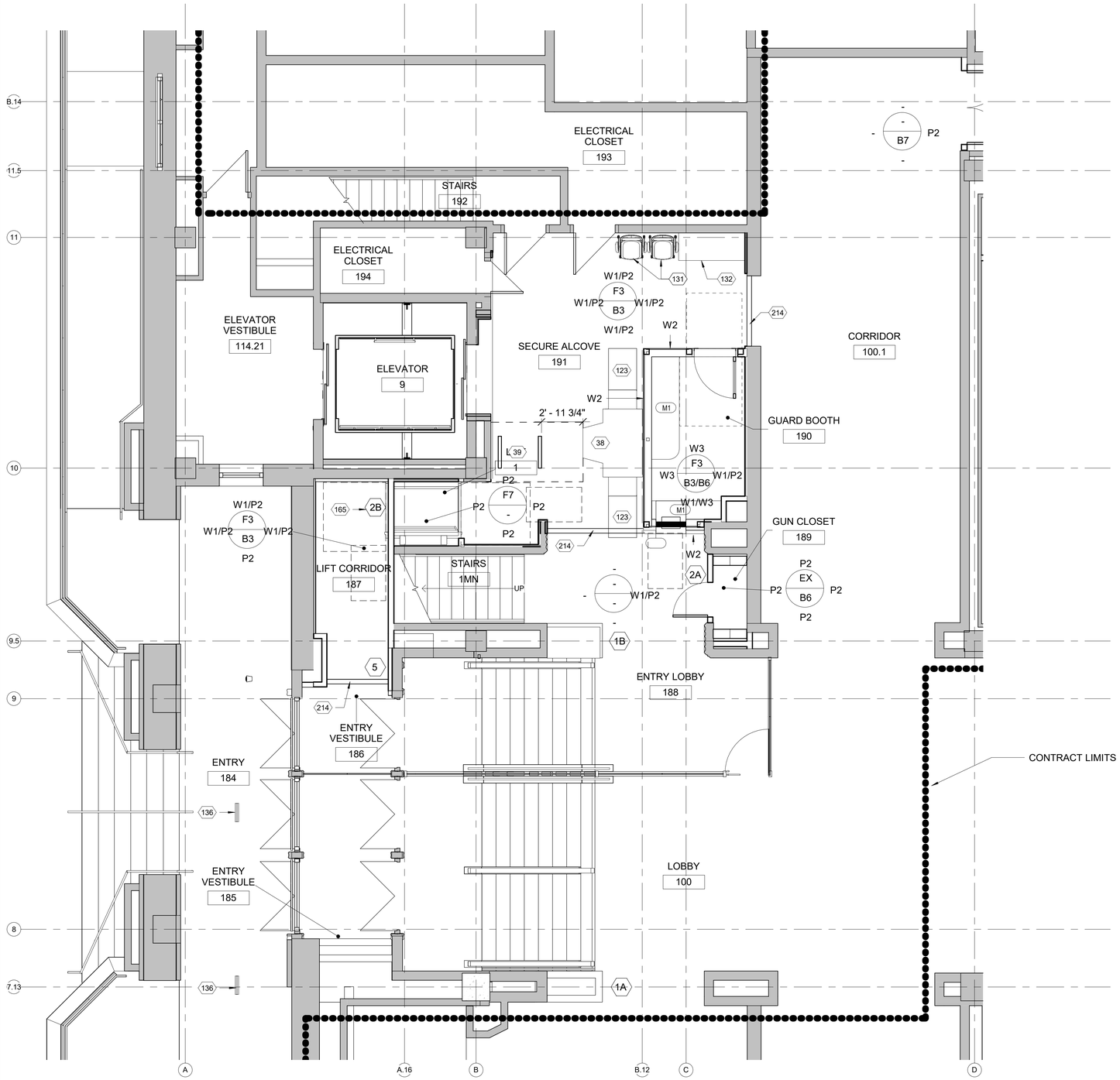


N

1 I101 FIRST FLOOR - LAFAYETTE FURNITURE, FINISH AND EQUIPMENT PLAN - NEW
1/4" = 1'-0"

GENERAL NOTES

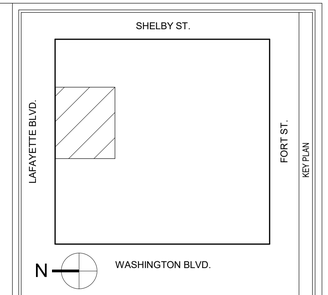
1. CONTRACTOR SHALL COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
2. SAMPLES OF ALL FINISHES SHALL BE SUBMITTED TO GSA AND TENANT AGENCY FOR APPROVAL PRIOR TO INSTALLATION. SUBMITTALS SHALL INCLUDE LOCATIONS FOR ALL FINISHES.
3. ALL INTERIOR FINISHES (WALL COVERING, CEILING TILE, ETC). SHALL COMPLY WITH GSA CRITERIA FOR FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS AND SHALL MEET GSA REQUIREMENTS.
4. PROVIDE COVED BASE FOR ALL FLOORING U.N.O. REFER TO FINISH SCHEDULE I-601.
5. DOOR FRAMES TO BE PAINTED TO MATCH SCHEDULED WALL PAINT WITH SEMI-GLOSS FINISH U.N.O.
6. REFER TO DRAWING I-601 FOR FINISH SCHEDULE.
7. CONTRACTOR IS RESPONSIBLE TO PREPARE ALL SURFACES TO RECEIVE SCHEDULED FINISH. REFER TO SPECIFICATIONS.

LEGEND

- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- EXISTING DOOR AND FRAME TO REMAIN
- NEW DOOR AND FRAME
- X — INDICATES FLOOR MATERIAL USED IN THIS AREA
- X — INDICATES WALL FINISH ON SURFACE TO WHICH ARROW IS POINTING
- X — INDICATES BASE USED IN THIS AREA
- X — INDICATES MILLWORK USED IN THIS AREA
- ABAAS DOOR / EQUIPMENT CLEARANCE
- X — NEW SIGNAGE - REFER TO I-604

KEYED NOTES

NUMBER	DESCRIPTION
38	NEW X-RAY MACHINE N.I.C.
39	NEW MAGNETOMETER MACHINE N.I.C.
123	ROLLER TABLE BY OTHERS.
131	CHAIR BY OTHERS.
132	TABLE BY OTHERS.
136	NEW PEDESTAL SIGN INDICATING ENTRANCE TO THE LEFT.
165	INSTALL SALVAGED ORIGINAL BUILDING SIGN FROM OWNER STORAGE/ATTIC STOCK. REFER TO DRAWING I604.
214	REUSE AND INSTALL ATTIC STOCK OF 4" BLACK GRANITE THRESHOLDS.



KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
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Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

CONSULTANT IDENTIFICATION

STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047664
LICENSED ARCHITECT

STAMP OR SEAL

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Public Buildings Service
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Customer Projects Service Center
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Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

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ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	NEW FFE PLAN
SHEET NUMBER AND FILENAME	I101

SHEET

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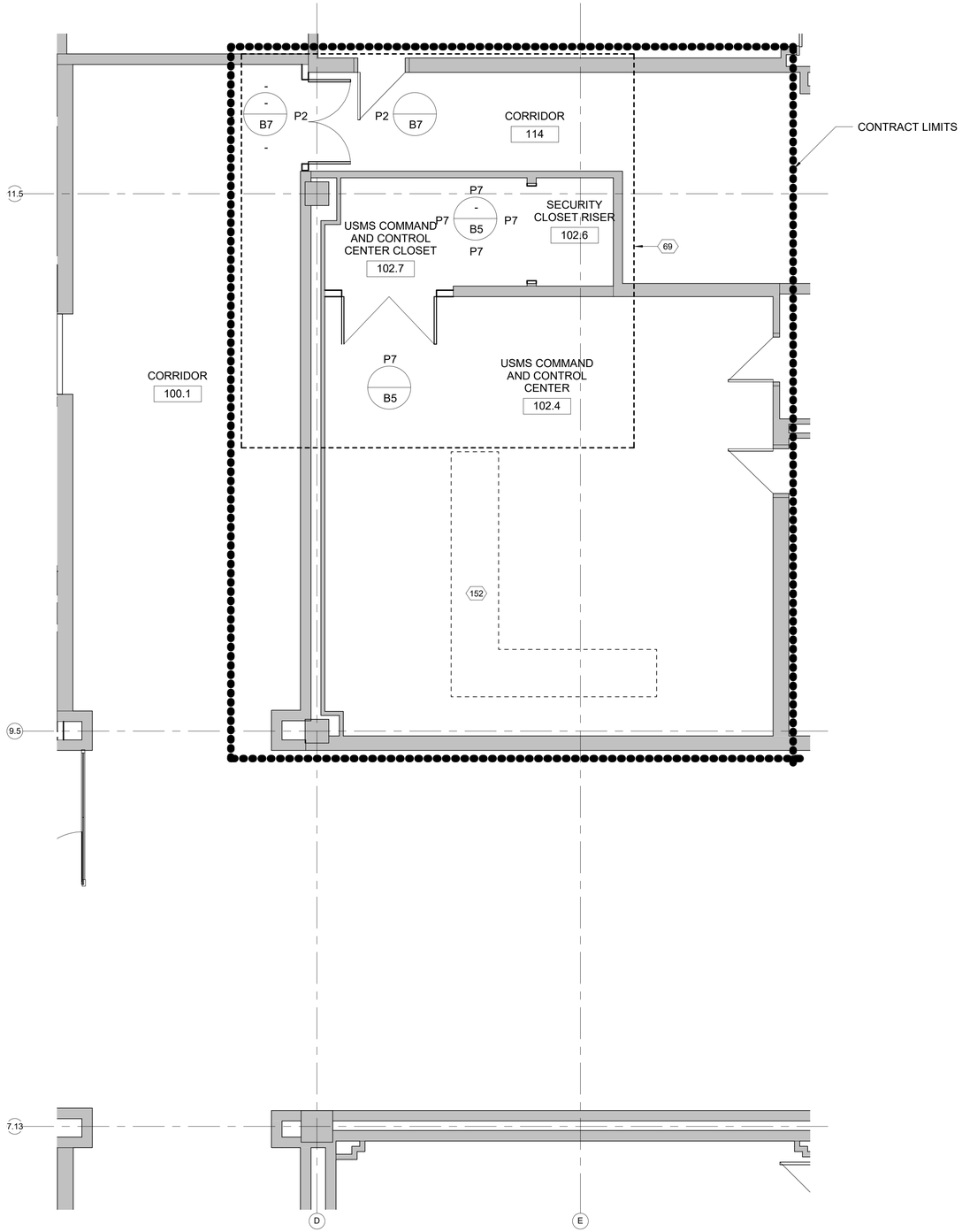


N

1
I102

FIRST FLOOR - COMMAND AND CONTROL CENTER FURNITURE, FINISH AND EQUIPMENT PLAN - NEW
1/4" = 1'-0"

GENERAL NOTES

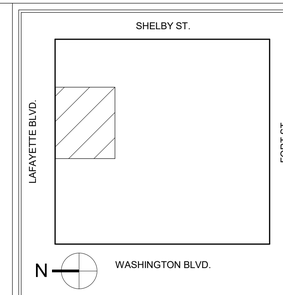
1. CONTRACTOR SHALL COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
2. SAMPLES OF ALL FINISHES SHALL BE SUBMITTED TO GSA AND TENANT AGENCY FOR APPROVAL PRIOR TO INSTALLATION. SUBMITTALS SHALL INCLUDE LOCATIONS FOR ALL FINISHES.
3. ALL INTERIOR FINISHES (WALL COVERING, CEILING TILE, ETC). SHALL COMPLY WITH GSA CRITERIA FOR FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS AND SHALL MEET GSA REQUIREMENTS.
4. PROVIDE COVED BASE FOR ALL FLOORING U.N.O. REFER TO FINISH SCHEDULE I-601.
5. DOOR FRAMES TO BE PAINTED TO MATCH SCHEDULED WALL PAINT WITH SEMI-GLOSS FINISH U.N.O.
6. REFER TO DRAWING I-601 FOR FINISH SCHEDULE.
7. CONTRACTOR IS RESPONSIBLE TO PREPARE ALL SURFACES TO RECEIVE SCHEDULED FINISH. REFER TO SPECIFICATIONS.

LEGEND

- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- EXISTING DOOR AND FRAME TO REMAIN
- NEW DOOR AND FRAME
- INDICATES FLOOR MATERIAL USED IN THIS AREA
- INDICATES WALL FINISH ON SURFACE TO WHICH ARROW IS POINTING
- INDICATES BASE USED IN THIS AREA
- INDICATES MILLWORK USED IN THIS AREA
- ABAAS DOOR / EQUIPMENT CLEARANCE
- NEW SIGNAGE - REFER TO I-604

KEYED NOTES

NUMBER	DESCRIPTION
69	WORK ASSOCIATED WITH ENLARGING SECURITY CLOSET RISER IS TO PRICED AS PART OF OPTION 1.
152	COMMAND CENTER FURNITURE MODULE BY OTHERS.



KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES
ASSOCIATES ARCHITECTS
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CONSULTANT IDENTIFICATION

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SCOTT W. GOODSELL
ARCHITECT
No. 1301047664
LICENSED ARCHITECT

STAMP OR SEAL

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ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	NEW FFE PLAN
SHEET NUMBER AND FILENAME	I102

SHEET

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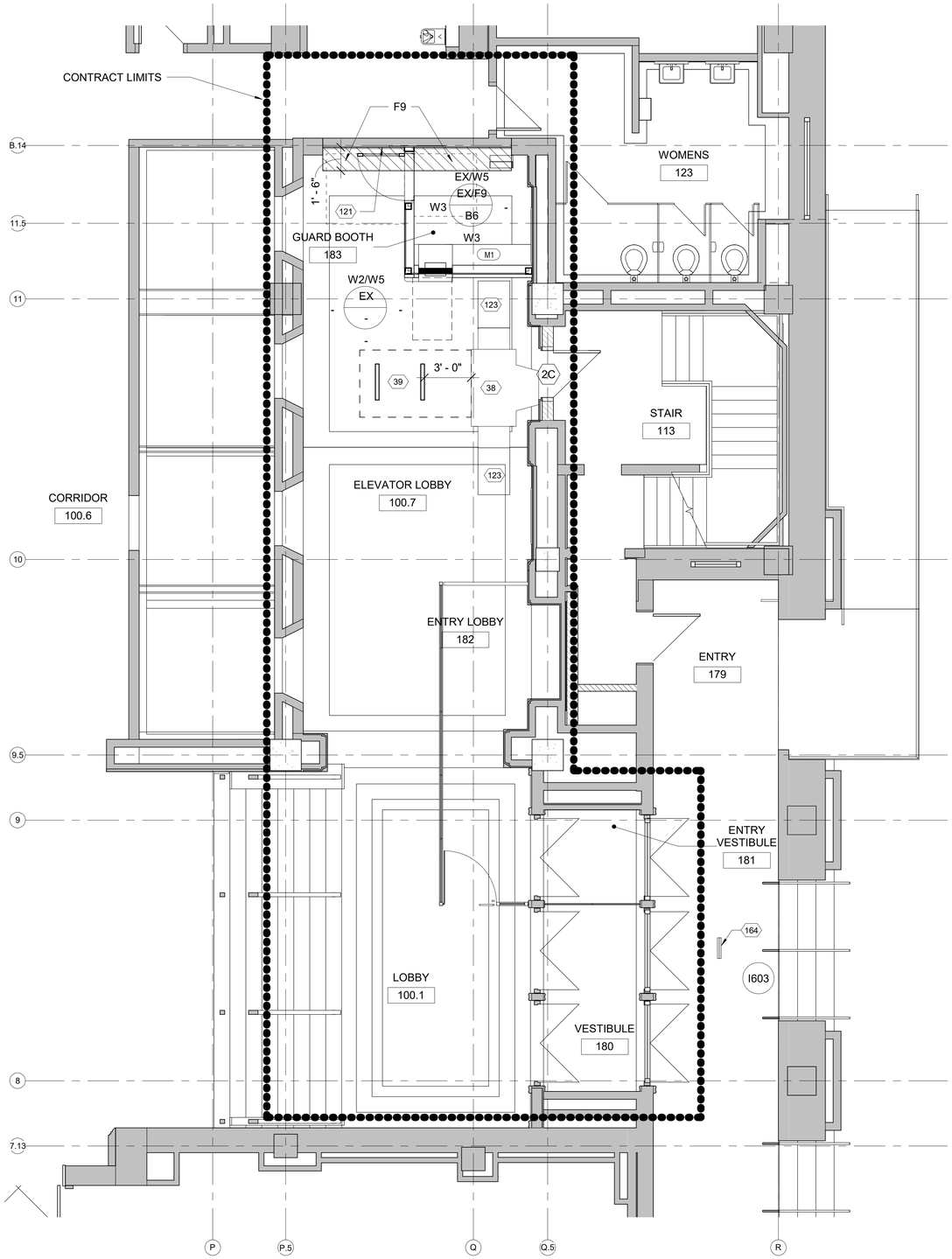

N

1 / I103 FIRST FLOOR - FORT FURNITURE, FINISH AND EQUIPMENT PLAN - NEW
1/4" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
2. SAMPLES OF ALL FINISHES SHALL BE SUBMITTED TO GSA AND TENANT AGENCY FOR APPROVAL PRIOR TO INSTALLATION. SUBMITTALS SHALL INCLUDE LOCATIONS FOR ALL FINISHES.
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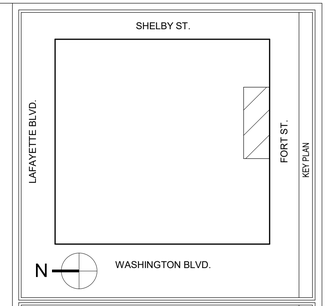
6. REFER TO DRAWING I-601 FOR FINISH SCHEDULE.
7. CONTRACTOR IS RESPONSIBLE TO PREPARE ALL SURFACES TO RECEIVE SCHEDULED FINISH. REFER TO SPECIFICATIONS.

LEGEND

- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- EXISTING DOOR AND FRAME TO REMAIN
- NEW DOOR AND FRAME
- INDICATES FLOOR MATERIAL USED IN THIS AREA
- INDICATES WALL FINISH ON SURFACE TO WHICH ARROW IS POINTING
- INDICATES BASE USED IN THIS AREA
- INDICATES MILLWORK USED IN THIS AREA
- ABAAS DOOR / EQUIPMENT CLEARANCE
- NEW SIGNAGE - REFER TO I-604

KEYED NOTES

NUMBER	DESCRIPTION
38	NEW X-RAY MACHINE N.I.C.
39	NEW MAGNETOMETER MACHINE N.I.C.
121	INSTALL SALVAGED GRANITE PANELS ON EXISTING WALL TO REMAIN.
123	ROLLER TABLE BY OTHERS.
164	NEW PEDESTAL SIGN INDICATING "EMPLOYEE ENTRANCE ONLY. PUBLIC ENTRANCE AT LAFAYETTE STREET".



KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

CONSULTANT IDENTIFICATION

STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047654
LICENSED ARCHITECT

STAMP OR SEAL

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	NEW FINISH PLAN
SHEET NUMBER AND FILENAME	I103

SHEET

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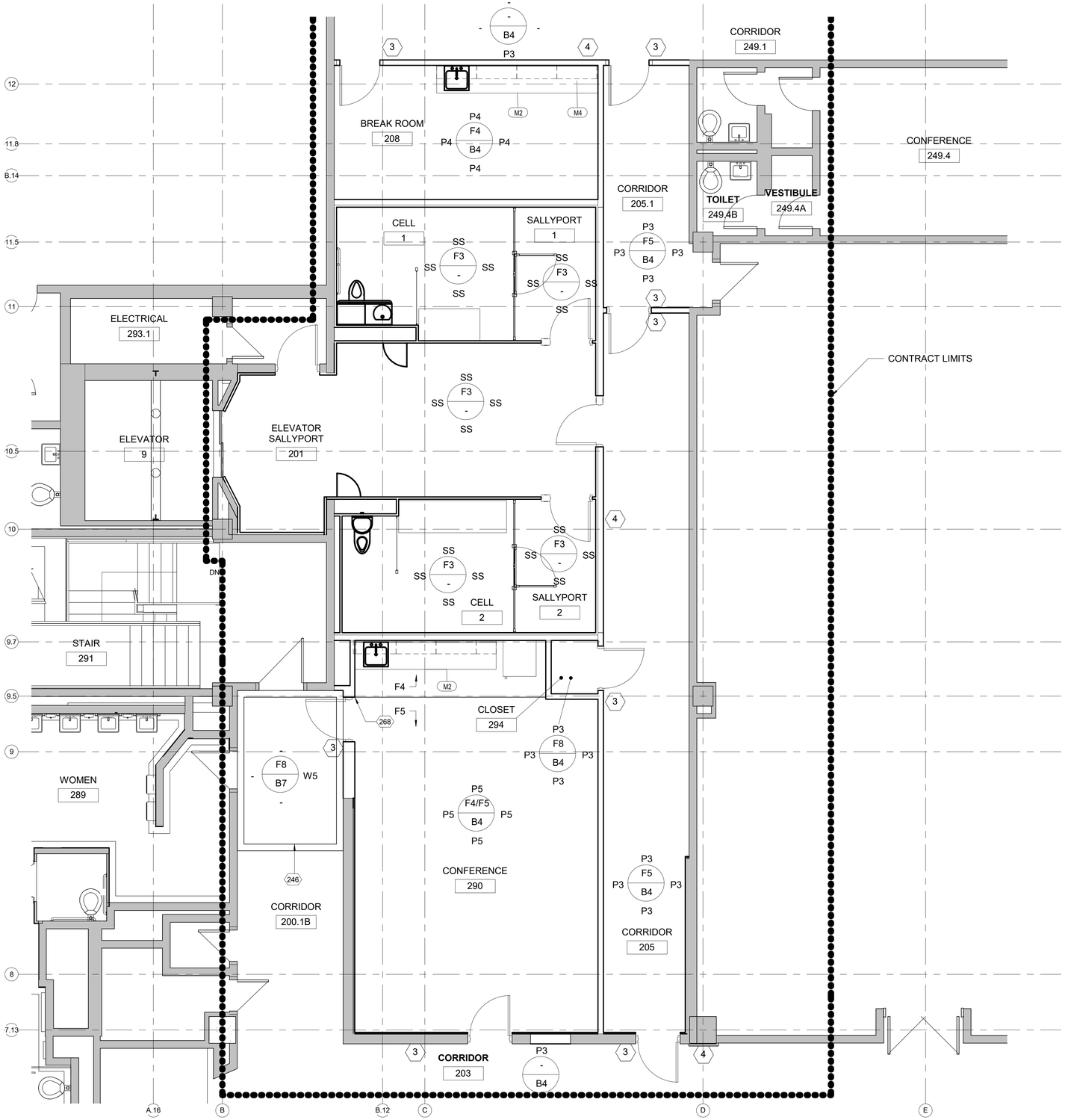

SECOND FLOOR - OPTION 1
FINISH PLAN - NEW
1/4" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
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LEGEND

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- NEW PARTITION
- EXISTING DOOR AND FRAME TO REMAIN
- NEW DOOR AND FRAME
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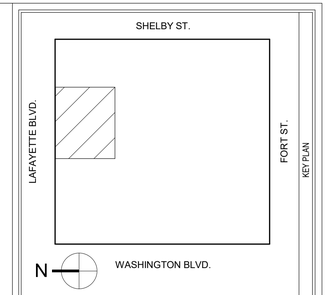
- INDICATES MILLWORK USED IN THIS AREA
- ABAAS DOOR / EQUIPMENT CLEARANCE
- NEW SIGNAGE - REFER TO I-604

KEYED NOTES

NUMBER	DESCRIPTION
246	FILL WITH NEW WHITE VCT WITH BLACK VCT BORDER TO MATCH LEVIN PROSPECTUS PROJECT STANDARD.
268	ALIGN FLOOR TRANSITION WITH OPENING OF DOOR EDGE.



KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

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BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	SECOND FLOOR
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	NEW FINISH PLAN
SHEET NUMBER AND FILENAME	I104

SHEET

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LEVIN CSP FINISH SCHEDULE

Level	Number	Name	FLOOR FINISH	WALL BASE	Ceiling Finish	WALL FINISH - NORTH	WALL FINISH - EAST	WALL FINISH - SOUTH	WALL FINISH - WEST	MILLWORK	Comments
Not Placed											
Not Placed	200	CORRIDOR	-	B4	-	P3	-	-	-		PAINT EXISTING WALL TO NEAREST CORNER OR DOOR OPENING.
Not Placed	200.1A	CORRIDOR	-	B4	-	-	P3	P3	-		PAINT EXISTING WALL TO NEAREST CORNER OR DOOR OPENING.
Not Placed	210.2	CORRIDOR	-	B4		P3	-	-	-		
Not Placed	247	SECURE CORRIDOR	-	B4		P5	P5	P5	P5		
Not Placed	248.3	CORRIDOR	-	B4		-	P5	P5	P5		
-01 - BASEMENT FLOOR											
-01 - BASEMENT FLOOR	293.2	MECH	-	-	-	-	-	-	-	-	
-01 - BASEMENT FLOOR	293.3	MECH	-	-	-	-	-	-	-	-	
-01 - BASEMENT FLOOR	B18.2A	VEHICLE DRIVE	-	B1/P6	CLG-1	EX/P6	P6	-	-		-
-01 - BASEMENT FLOOR	B18.2B	VEHICLE DRIVE	F1	B1/P6	CLG-1	P6	P6	-	-		
-01 - BASEMENT FLOOR	B18.3	SECURE CORRIDOR	F1	B1	CLG-1	EX/P6	EX/P6/P1	P1	P1		-
-01 - BASEMENT FLOOR	B18.3	SECURE CORRIDOR									
-01 - BASEMENT FLOOR	B42.1	VACANT	-	P6	-	-	P6	-	-		-
-01 - BASEMENT FLOOR	B42.2	VACANT									
-01 - BASEMENT FLOOR	B43	ELECTRICAL CLOSET	-	-	-	-	-	-	P6		-
-01 - BASEMENT FLOOR	B44	SECURE VESTIBULE	F1	B1	CLG-2	P1	P1/P6	P1	P1		-
-01 - BASEMENT FLOOR	B46	VEHICLE SALLYPORT	F1	B1/P6	CLG-1	EX/P6	P1/P6	P1	P1		-
-01 - BASEMENT FLOOR	B47	GUN CLOSET	F1	B4	CLG-2	P6	P6	P6	P6		-
-01 - BASEMENT FLOOR	B48	ELECTRICAL CLOSET	F1	B1	CLG-1	P6	P6	EX/P6	EX/P6		-
-01 - BASEMENT FLOOR	B49	ELEVATOR SALLYPORT	F1	B1	CLG-6	EX/P6	P1	P1/P6	P1		-
-01 - BASEMENT FLOOR	B49.1	MECH	EX	P6	-	EX	P6	EX	-	-	
01 - FIRST FLOOR											
01 - FIRST FLOOR	1	LIFT	F7	-	CLG-5	P2	P2	P2	P2		-
01 - FIRST FLOOR	1MN	STAIRS	-	-	-	-	-	W1/P2	-		W1 AND P2 ON NEW PARTITION AT GUN CLOSET
01 - FIRST FLOOR	100	LOBBY	-	-	-	-	-	-	-		-
01 - FIRST FLOOR	100.1	LOBBY	-	-	-	-	-	-	-		-
01 - FIRST FLOOR	100.1	CORRIDOR	-	B7		-	-	P2	-	-	
01 - FIRST FLOOR	102.4	USMS COMMAND AND CONTROL CENTER		B5			P7				
01 - FIRST FLOOR	102.7	USMS COMMAND AND CONTROL CENTER CLOSET	-	B5	-	P7	P7	P7	P7	-	
01 - FIRST FLOOR	114	CORRIDOR		B7		P2					
01 - FIRST FLOOR	114.21	ELEVATOR VESTIBULE	-	-	-	-	-	-	-		-
01 - FIRST FLOOR	184	ENTRY	-	-	-	-	-	-	-		-
01 - FIRST FLOOR	185	ENTRY VESTIBULE	-	-	-	-	-	-	-		
01 - FIRST FLOOR	186	ENTRY VESTIBULE	-	-	-	-	-	-	-		-
01 - FIRST FLOOR	187	LIFT CORRIDOR	F3	B3	CLG-7	W1/P2	W1/P2	W1/P2	P2		-
01 - FIRST FLOOR	188	ENTRY LOBBY	-	-	-	-	-	-	-		-
01 - FIRST FLOOR	189	GUN CLOSET	EX	B6	-	P2	P2	P2	P2		-
01 - FIRST FLOOR	190	GUARD BOOTH	F3	B3/B6	CLG-4	W3	W3	W1/P2	W1/W3	M1	B6 FINISH ONLY AT PLAM WALLS. W1 TILE TO EXTEND TO FLOOR.
01 - FIRST FLOOR	191	SECURE ALCOVE	F3	B3	CLG-4	W1/P2	W1/P2	W1/P2	W1/P2	-	W2 AT GUARD BOOTH WALLS
01 - FIRST FLOOR	192	STAIRS	-	-	-	-	-	-	-		-
01 - FIRST FLOOR	193	ELECTRICAL CLOSET	-	-	-	-	-	-	-		-
01 - FIRST FLOOR	194	ELECTRICAL CLOSET	-	-	-	-	-	-	-		-
01 - FIRST FLOOR	100.7	ELEVATOR LOBBY	EX	-	-	-	W2/W5	-	-		W2 AT GUARD BOOTH WALLS
01 - FIRST FLOOR	113	STAIR	-	-	-	-	-	-	-		-
01 - FIRST FLOOR	179	ENTRY	-	-	-	-	-	-	-		-
01 - FIRST FLOOR	180	VESTIBULE	-	-	-	-	-	-	-		-
01 - FIRST FLOOR	181	ENTRY VESTIBULE	-	-	-	-	-	-	-		-
01 - FIRST FLOOR	182	ENTRY LOBBY	-	-	-	-	-	-	-		-
01 - FIRST FLOOR	183	GUARD BOOTH	EX/F9	B6	-	W3	EX/W5	-	W3	M1	B6 ON PLAM WALLS ONLY
02 - SECOND FLOOR											
02 - SECOND FLOOR	1	CELL	F3	-	CLG-2	SS	SS	SS	SS		-
02 - SECOND FLOOR	1	SALLYPORT	F3	-	CLG-2	SS	SS	SS	SS		-
02 - SECOND FLOOR	2	CELL	F3	-	CLG-2	SS	SS	SS	SS		-
02 - SECOND FLOOR	2	SALLYPORT	F3	-	CLG-2	SS	SS	SS	SS		-
02 - SECOND FLOOR	200.1B	CORRIDOR	F8	B7	-	-	-	W5	-		
02 - SECOND FLOOR	201	ELEVATOR SALLYPORT	F3	-	CLG-6	SS	SS	SS	SS		-
02 - SECOND FLOOR	203	CORRIDOR	-	B4	-		P3				PROTECT EXISTING CARPET TO REMAIN.
02 - SECOND FLOOR	205	CORRIDOR	F5	B4	CLG-3	P3	P3	P3	P3		-
02 - SECOND FLOOR	205.1	CORRIDOR	F5	B4	CLG-5	P3	P3	P3	P3		-
02 - SECOND FLOOR	208	BREAK ROOM	F4	B4	CLG-3	P4	P4	P4	P4	M2/M4	-
02 - SECOND FLOOR	249.1	CORRIDOR	-	B4	-	-	-	-	P3		-
02 - SECOND FLOOR	249.4A	VESTIBULE	-	-	CLG-5	-	-	-	-		
02 - SECOND FLOOR	249.4B	TOILET	-	-	CLG-5	-	-	-	-		
02 - SECOND FLOOR	290	CONFERENCE	F4/F5	B4	CLG-3	P5	P5	P5	P5	M2/M4	F4 APRON AT MILLWORK ONLY
02 - SECOND FLOOR	291	STAIR	-	-	-	-	-	-	-		-

GENERAL NOTES

1. CONTRACTOR SHALL COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
2. SAMPLES OF ALL FINISHES SHALL BE SUBMITTED TO GSA AND TENANT AGENCY FOR APPROVAL PRIOR TO INSTALLATION. SUBMITTALS SHALL INCLUDE LOCATIONS FOR ALL FINISHES.
3. ALL INTERIOR FINISHES (WALL COVERING, CEILING TILE, ETC). SHALL COMPLY WITH GSA CRITERIA FOR FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS AND SHALL MEET GSA REQUIREMENTS.
4. DOOR FRAMES TO BE PAINTED TO MATCH SCHEDULED WALL PAINT WITH SEMI-GLOSS FINISH U.N.O.
5. CONTRACTOR IS RESPONSIBLE TO PREPARE ALL SURFACES TO RECEIVE SCHEDULED FINISH. REFER TO SPECIFICATIONS.

KEY PLAN

GRAPHIC SCALE

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

STAMP OR SEAL

OWNER IDENTIFICATION

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	VARIOUS
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	FINISH SCHEDULE
SHEET NUMBER AND FILENAME	I601

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FINISH SCHEDULE NOTES

FLOORING

F1: URETHANE SYSTEM
MFR: STONHARD
TYPE: STONDECK XD2
COLOR: PEWTER

F2: GRANITE
MFR: TBD
COLOR: TBD

F3: TERRAZZO
MFR: TERRAZZO & MARBLE SUPPLY
TYPE: TERROXY RESIN SYSTEMS
COLOR: TM#23-148

F4: PORCELAIN TILE
MFR: VIRIGINA TILE, CERMAMIC TILES
STYLE: INTERNATIONAL GALLERY
COLOR: TAUPE
SIZE: 12"X12"

F5: CARPET
MFR: BENTLEY
PATTERN: REDACTED 8RF2300221K
COLOR: DOCUMENT 801532

F7: PAINTED CONCRETE FLOOR
MFR: SHERWIN WILLIAMS
TYPE: EPOXY FLOOR COATING (ARMORSEAL 8100 OR SIMILAR)
COLOR: TBD

F8: VINYL TILE (VCT)
MATCH PROPSECTUS
PATTERN: BORDER / FIELD
COLOR: BLACK BORDER WITH WHITE FIELD

F9: MATCH EXISTING TERRAZZO WHERE NOTED FOR PATCHING

CEILING

CLG-1: PAINT STRUCTURE ABOVE
COLOR: OFF-WHITE - TO MATCH EXISTING PAINT
FINISH: MATTE

CLG-2: BARRIERDEK 24" W SECURE CEILING
MFR: TRUSSBILT
COLOR: WHITE

CLG-3: ACOUSTIC CEILING TILE
MFR: ARMSTRING
TYPE: CALLA TEGULAR
SUSPENSION SYSTEM: SUPRAFINE 9/16" SQUARE TEGULAR
SIZE: 24" X 24" X 1"
COLOR: WHITE

CLG-4: CUSTOM ACOUSTIC CEILING TILE
MFR: ARMSTRONG
TYPE: FASTSIZE
PANELS: CALLA TEGULAR
SUSPENSION SYSTEM: SUPRAFINE XL
SIZE: REFER TO DRAWING A-403, 1" THICK
TILE COLOR: FOSSIL
SUSPENSION COLOR: MATCH SW 6074 SPALDING GRAY

CLG-5: PAINTED GYPSUM BOARD
MFR: SHERWIN WILLIAMS
COLOR: TBD
FINISH: MATTE

CLG-6: TRUSSDEK 24" W SECURE CEILING
MFR: TRUSSBILT
COLOR: WHITE

CLG-7: PAINTED GYPSUM BOARD
MFR: SHERWIN WILLIAMS
COLOR: MATCH ARMSTRONG FOSSIL TILE, CLG-4
FINISH: MATTE

MILLWORK:

M1: SOLID SURFACE COUNTERTOP
MFR: WILSONART
COLOR: DESERT ICE 9206CE

M2: SOLID SURFACE COUNTERTOP
MFR: WILSONART
COLOR: SANTIAGO Q4023

M3: PLASTIC LAMINATE CABINETS AND SHELVES
MFR: WILSONART
COLOR: KHAKI BROWN D50-60
FINISH: MATTE

M4: PLASTIC LAMINATE CABINETS AND SHELVES
MFR: WILSONART
COLOR: SHADOW D96-60

WALL BASE

B1: GLAZED BLOCK
MFR: ECHELON MASONRY
TYPE: ASTRA-GLAZE SW+
COLOR: TBD

B3: PORCELAIN - WALL TILE TO CONTINUE TO FLOOR, NO SEPARATE BASE
MFR: VIRIGINA TILE, CROSSVILLE
STYLE: SHADES 2.0
COLOR: CAMEL
FINISH: L.POL
SIZE: 24"X48"

B4: RUBBER
MFR: TARKETT
COLOR: BLACK
STYLE: COVED

B5: MATCH EXISTING BASE

B6: RUBBER
MFR: TARKETT
COLOR: TBD
STYLE: TBD

B7: SALVAGED STONE BASE

WALL:

P1: GLAZED BLOCK
MFR: ECHELON MASONRY
TYPE: ASTRA-GLAZE SW+
COLOR: TBD

P2: PAINT COLOR 1
MFR: SHERWIN WILLIAMS
COLOR: TBD
FINISH: EGGSHELL

P3: PAINT COLOR 2
MFR: SHERWIN WILLIAMS
COLOR: TBD
FINISH: EGGSHELL

P4: PAINT COLOR 3
MFR: SHERWIN WILLIAMS
COLOR: TBD
FINISH: EGGSHELL

P5: PAINT COLOR 4
MFR: SHERWIN WILLIAMS
COLOR: TBD
FINISH: EGGSHELL

P6: ACRYLIC URETHANE PAINT
MFR: SHERWIN WILLIAMS
TYPE: PRO INDUSTRIAL ACROLON 100
COLOR: TBD
FINISH: HIGH GLOSS

P7: MATCH EXISTING PAINT

SS: STAINLESS STEEL WALL PANELS
MFR: TRUSSBILT
TYPE: STAINLESS STEEL

W1: PORCELAIN TILE
MFR: VIRGINIA TILE, CROSSVILLE
STYLE: SHADES 2.0
COLOR: CAMEL
FINISH: L.POL
SIZE: 24"X48"
PROVIDE SCHLUTER JOLLY TRIM AT TOP EDGE OF W1 - TYP.

W2: LEVELe OPAQUE GLASS PANEL SYSTEM
MFR: FORMS & SURFACES
PANEL: MINIMAL PANEL
INSET MATERIAL: VIVIDGLASS, VIVITELA MESH
CONFIGURATION: REFLECT
PATTERN: TWILL
COLOR: BRONZE
FINISH: OPALEX

W3: PLASTIC LAMINATE
MFR: WILSONART
COLOR: KHAKI BROWN D50-60
FINISH: MATTE

W5: SALVAGED ORIGINAL GRANITE PANELS

KEY PLAN

GRAPHIC SCALE

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GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	FINISH SCHEDULE NOTES
SHEET NUMBER AND FILENAME	I602

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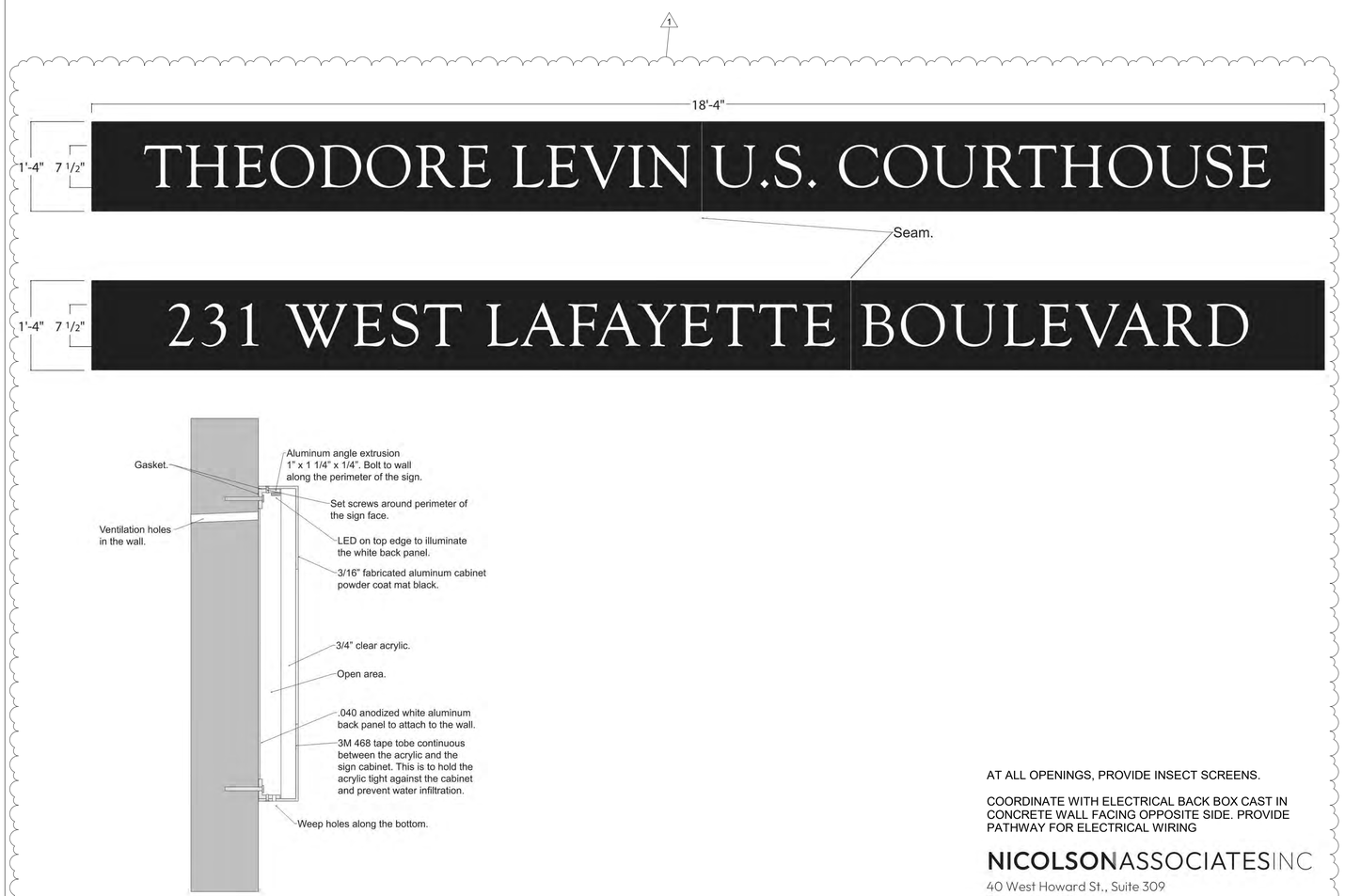
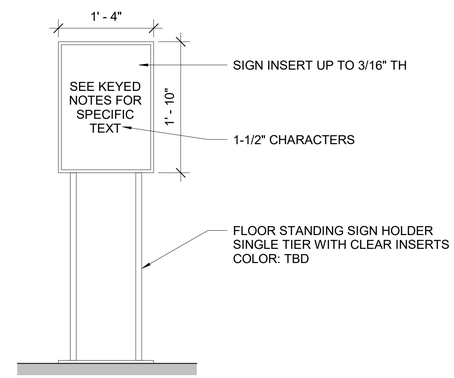


3 / I603 LAFAYETTE BLVD EXTERIOR SIGNAGE DETAILS
1" = 1'-0"

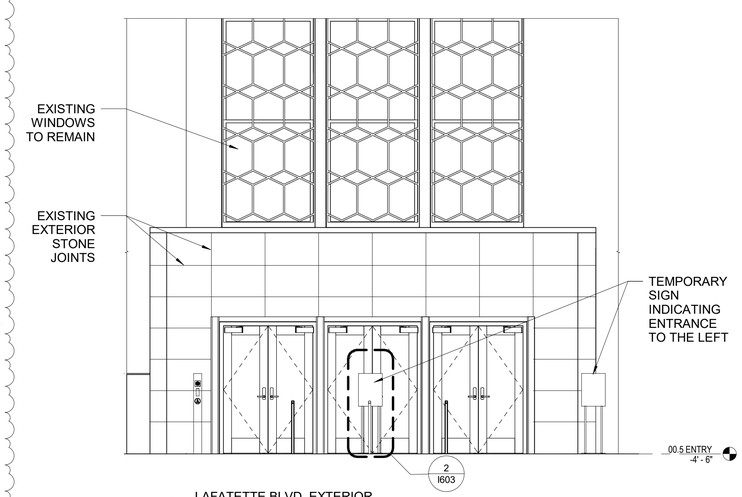
AT ALL OPENINGS, PROVIDE INSECT SCREENS.

COORDINATE WITH ELECTRICAL BACK BOX CAST IN CONCRETE WALL FACING OPPOSITE SIDE. PROVIDE PATHWAY FOR ELECTRICAL WIRING

NICOLSONASSOCIATESINC
40 West Howard St., Suite 309
Pontiac, MI 48342
dnicolson@nicolsonassociates.com
www.NicolsonAssociates.com



2 / I603 FLOOR STANDING SIGNAGE DETAIL
1" = 1'-0"



1 / I603 LAFATETTE BLVD. EXTERIOR FRONT SIGNAGE - NEW
1/4" = 1'-0"

KEY PLAN

GRAPHIC SCALE
1/4"=1'-0" 0 4" 8"

REVISION BLOCK

MARK	DATE	DESCRIPTION
1	02/15/2023	100% Revision

CONTRACT

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ARCHITECT
No. 1301047664
LICENSED ARCHITECT

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GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	SIGNAGE DETAILS
SHEET NUMBER AND FILENAME	I603

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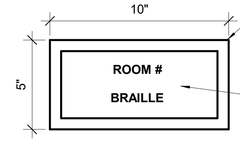
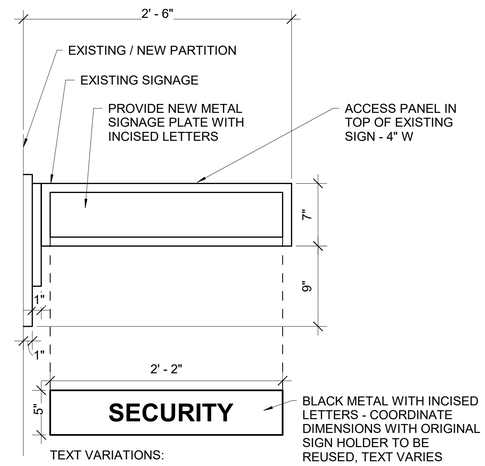


MATCH BUILDING STANDARD SIGNAGE. MAGNET ADHERED TO BACK SIDE OF PANEL - ALIGN WITH RECEPTIVE STRIPS ON FRAME. ACRYLIC PANEL TO BE RECESSED 1/8". PROVIDE PRE-DRILLED HOLES TO MECHANICALLY MOUNT SIGNS.

FONT: GOUDY OLD STYLE
MATERIAL: BRUSHED ALUMINUM
TACTILE GRADE 2 BRAILLE BRUSHED ALUMINUM FRAME
MATTE BLACK 1/8" ACRYLIC BACKGROUND

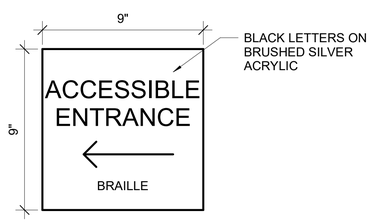
3 / I604 SIGNAGE TYPE 3
3" = 1'-0"



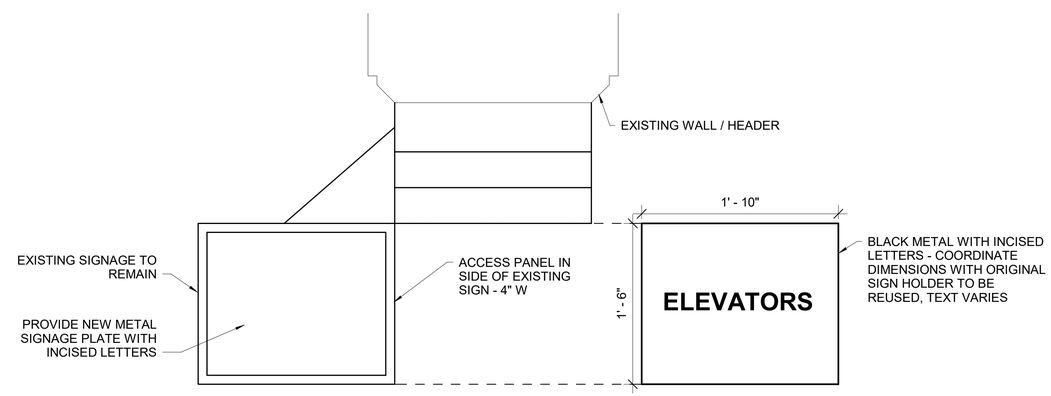
TEXT VARIATIONS:

2A: SECURITY
2B: ADA LIFT
2C: BLANK

2 / I604 SIGNAGE TYPE 2
1 1/2" = 1'-0"



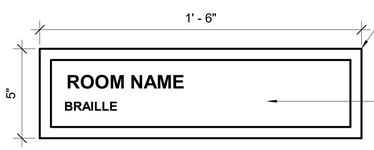
5 / I604 SIGNAGE TYPE 5
3" = 1'-0"



TEXT VARIATIONS:

1A: ELEVATORS
1B: PUBLIC ENTRANCE
1C: ACCESSIBLE EXIT

1 / I604 SIGNAGE TYPE 1
1 1/2" = 1'-0"

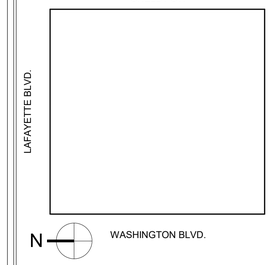


MATCH BUILDING STANDARD SIGNAGE. MAGNET ADHERED TO BACK SIDE OF PANEL - ALIGN WITH RECEPTIVE STRIPS ON FRAME. ACRYLIC PANEL TO BE RECESSED 1/8". PROVIDE PRE-DRILLED HOLES TO MECHANICALLY MOUNT SIGNS.

FONT: GOUDY OLD STYLE
MATERIAL: BRUSHED ALUMINUM
TACTILE GRADE 2 BRAILLE BRUSHED ALUMINUM FRAME
MATTE BLACK 1/8" ACRYLIC BACKGROUND

4 / I604 SIGNAGE TYPE 4
3" = 1'-0"

KEY PLAN



GRAPHIC SCALE

1 1/2"=1'-0" 0 1' 2'

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

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BUILDING

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BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	
DISCIPLINE	ARCHITECTURAL
PLAN TYPE	SIGNAGE DETAILS
SHEET NUMBER AND FILENAME	I604

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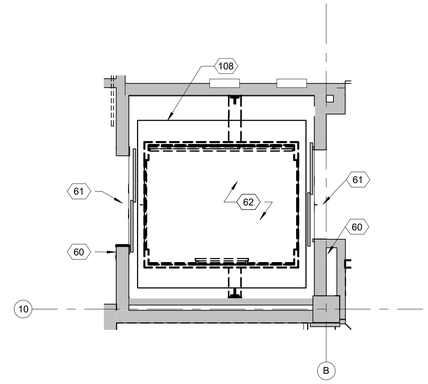
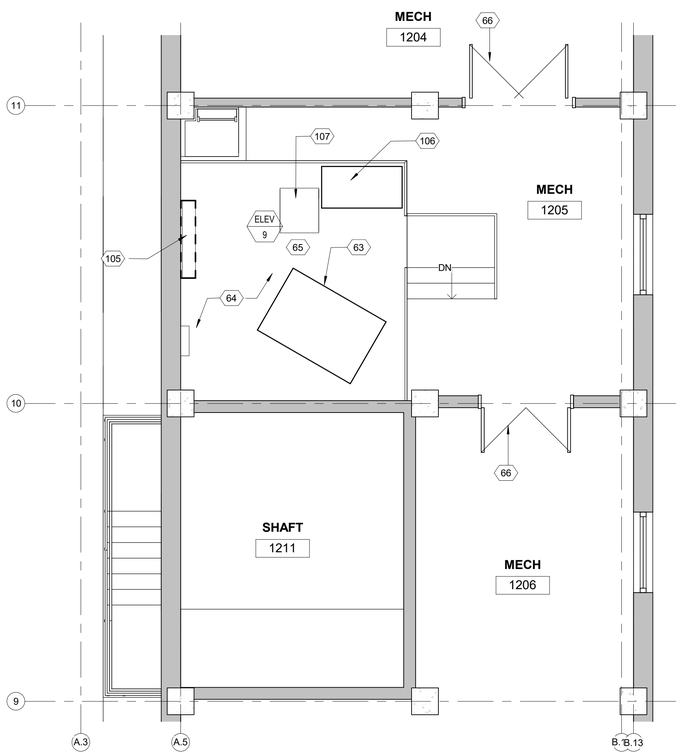
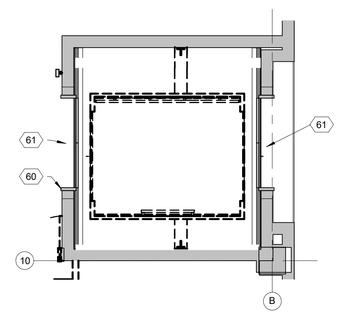


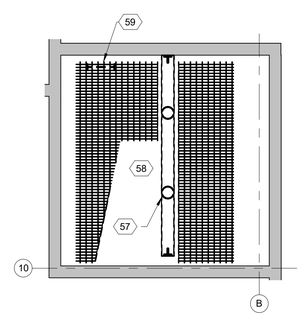
N 3 Q100 FIRST FLOOR - ELEVATOR 9 - DEMO 1/4" = 1'-0"



N 4 Q100 PENTHOUSE ELEVATOR 9 MACHINE RM - DEMO 1/4" = 1'-0"



N 2 Q100 BASEMENT FLOOR - ELEVATOR 9 - DEMO 1/4" = 1'-0"



N 1 Q100 SUB BASEMENT - ELEVATOR 9 - DEMO 1/4" = 1'-0"

GENERAL NOTES

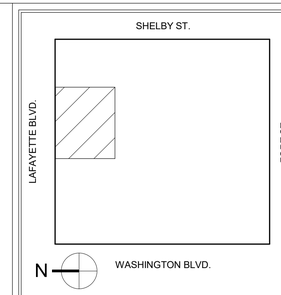
1. CONTRACTOR SHALL COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
2. CONTRACTOR SHALL PROTECT ALL EXISTING CONSTRUCTION AND FINISHES TO REMAIN THROUGHOUT THE PREMISES AND IN ADJACENT AREAS.
4. DO NOT SCALE DRAWINGS OR MODEL TO OBTAIN REQUIRED DIMENSIONAL INFORMATION. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. ALL EXISTING CONDITIONS ARE TO BE FIELD VERIFIED BY THE G.C. AND ANY DISCREPANCIES BROUGHT TO THE ARCHITECT'S ATTENTION.
7. A HAZARDOUS MATERIALS ASSESSMENT OF THE EXISTING BUILDING IN RELATIONSHIP TO THE CONTRACT LIMITS HAS BEEN COMPLETED. REFER TO THE PRE-ALTERATION AND ASSESSMENT REPORT WITHIN THE CONTRACT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. WORK OUTSIDE THE CONTRACT LIMITS MAY BE REQUIRED FOR TIE-INS AND CONNECTIONS. CONTRACTOR TO WORK OUTSIDE OF THE CONTRACT LIMITS AS REQUIRED TO COMPLETE THE ENTIRE SCOPE OF WORK FOR THE PROJECT.
10. COORDINATE WORK WITH ALL OTHER TRADES. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
11. REFER TO SPECIFICATIONS 14 22 11 FOR CAR PUSH BUTTON STATION AND DOOR OPERATING EQUIPMENT DETAILS.
12. ALL WORK AND EQUIPMENT PROVIDED SHALL BE IN ACCORDANCE WITH ASME A17.1-2019, SAFETY CODE FOR ELEVATORS AND ESCALATORS.
13. REFER TO SHEET HAZ104 AND A108 FOR HAZARDOUS MATERIAL AND ARCHITECTURAL WORK REQUIRED IN THE SECONDARY SPACE DIRECTLY BELOW THE ELEVATOR MACHINE ROOM.

LEGEND

- EXISTING PARTITION TO BE REMOVED (REFER TO PARTITION TYPES)
- DOOR AND FRAME TO REMAIN
- EXISTING PARTITION TO REMAIN
- DOOR AND FRAME TO BE REMOVED

KEYED NOTES

NUMBER	DESCRIPTION
57	EXISTING CAR SAFETIES, ROLLER GUIDES, AND BUFFER TO REMAIN.
58	EXISTING CAR AND COUNTERWEIGHT GUIDE RAILS TO REMAIN.
59	EXISTING PIT LADDER AND GRATING TO REMAIN.
60	REMOVE EXISTING HALL PUSH BUTTONS, HALL INDICATORS AND BRAILLE ENTRANCE JAMB PLATES - TYP. OF 17.
61	EXISTING SILLS, ENTRANCE DOORS AND FRAMES TO REMAIN - TYP.
62	REMOVE EXISTING DOOR OPERATORS, CAB SHELL AND HOIST WAY DOOR EQUIPMENT COMPLETE.
63	EXISTING GEARLESS TRACTION MACHINE TO BE RETAINED AND REFURBISHED. INCLUDE SPARE PARTS AS RECOMMENDED. PROVIDE AN ALLOWANCE OF $80,000, INCLUDING ALL MARKUPS, PROFIT, TAXES, ETC.
64	RETAIN AND REUSE EXISTING CAR LIGHTING CIRCUIT BREAKERS, DISCONNECT SWITCHES AND ASSOCIATED EQUIPMENT COMPLETE.
65	EXISTING GOVERNOR, HOIST AND GOVERNOR ROPES TO REMAIN.
66	EXISTING 30X84 PAIR 3 HOUR FIRE RATED DOOR AND FRAME TO REMAIN.
105	REMOVE ABANDONED DE-ENERGIZED ELECTRICAL SWITCHBOARD, DISCONNECT SWITCH AND SIX (6) ASSOCIATED CONDUITS. COORDINATE WITH ELECTRICAL DRAWINGS.
106	EXISTING TRANSFORMER TO REMAIN.
107	EXISTING ELEVATOR CONTROLLER TO REMAIN. PROVIDE USMS MODIFICATIONS AS REQUIRED.
108	EXISTING CAR PLATFORM AND COUNTERWEIGHT TO REMAIN.



KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

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CHECKED BY	SWG
FLOOR NO.	VARIOUS
DISCIPLINE	ELEVATOR EQUIPMENT
PLAN TYPE	ELEVATOR EQUIP. DEMO
SHEET NUMBER AND FILENAME	Q100

SHEET

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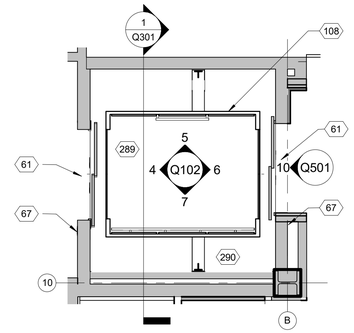
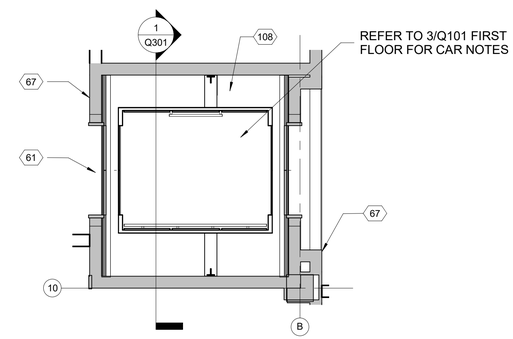
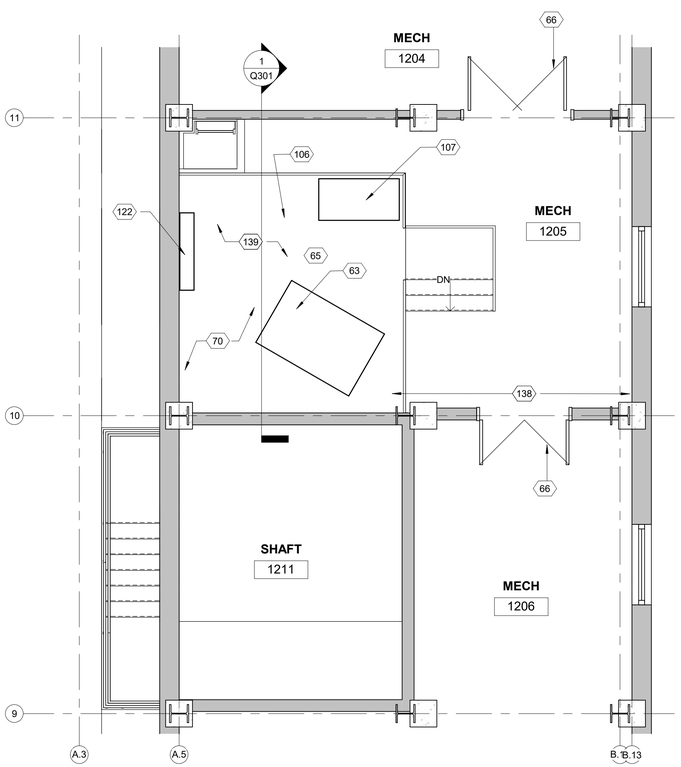


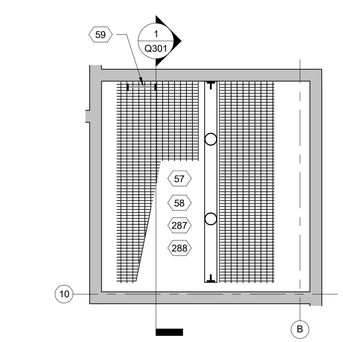
N 3 Q101 FIRST FLOOR - ELEVATOR 9 - NEW
1/4" = 1'-0"



N 2 Q101 BASEMENT ELEVATOR 9 - NEW
1/4" = 1'-0"



N 4 Q101 PENTHOUSE - ELEVATOR 9 MACHINE RM - NEW
1/4" = 1'-0"



N 1 Q101 SB - SUB BASEMENT ELEVATOR 9 - NEW
1/4" = 1'-0"

GENERAL NOTES

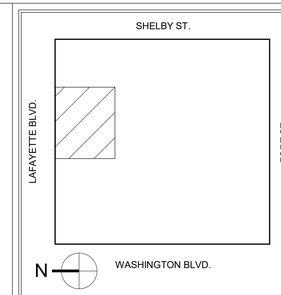
1. CONTRACTOR SHALL COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
2. DIMENSIONS ARE MEASURED TO THE FACE OF PARTITION U.N.O.
3. COORDINATE WORK WITH ALL OTHER TRADES. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
4. WORK OUTSIDE THE CONTRACT LIMITS MAY BE REQUIRED FOR TIE-INS AND CONNECTIONS. CONTRACTOR TO WORK OUTSIDE OF THE CONTRACT LIMITS AS REQUIRED TO COMPLETE THE ENTIRE SCOPE OF WORK FOR THE PROJECT.
5. PATCH ANY OPENINGS, CORES, FASTENER HOLES, ETC. RESULTING FROM DEMOLITION.
6. ALL WORK AND EQUIPMENT PROVIDED SHALL BE IN ACCORDANCE WITH ASME A17.1-2019, SAFETY CODE FOR ELEVATORS AND ESCALATORS.
7. REFER TO SPECIFICATIONS 14 22 11 FOR CAR PUSH BUTTON STATION AND DOOR OPERATING EQUIPMENT DETAILS.
8. REFER TO SHEET HAZ104 AND A108 FOR HAZARDOUS MATERIAL AND ARCHITECTURAL WORK REQUIRED IN THE SECONDARY SPACE DIRECTLY BELOW THE ELEVATOR MACHINE ROOM.
9. PROVIDE REPLACEMENT OF OPERATIONAL, CONTROL AND SECURITY WIRING AS NEEDED.
10. PROVIDE CONNECTION TO THE USMS COMMAND AND CONTROL CENTER ON THE FIRST FLOOR.

LEGEND

- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- EXISTING DOOR AND FRAME TO REMAIN
- NEW DOOR AND FRAME
- NEW CONCRETE FLOORING

KEYED NOTES

NUMBER	DESCRIPTION
57	EXISTING CAR SAFETIES, ROLLER GUIDES, AND BUFFER TO REMAIN.
58	EXISTING CAR AND COUNTERWEIGHT GUIDE RAILS TO REMAIN.
59	EXISTING PIT LADDER AND GRATING TO REMAIN.
61	EXISTING SILLS, ENTRANCE DOORS AND FRAMES TO REMAIN - TYP.
63	EXISTING GEARLESS TRACTION MACHINE TO BE RETAINED AND REFURBISHED. INCLUDE SPARE PARTS AS RECOMMENDED. PROVIDE AN ALLOWANCE OF $80,000, INCLUDING ALL MARKUPS, PROFIT, TAXES, ETC.
65	EXISTING GOVERNOR, HOIST AND GOVERNOR ROPES TO REMAIN.
66	EXISTING 30X84 PAIR 3 HOUR FIRE RATED DOOR AND FRAME TO REMAIN.
67	PROVIDE AND INSTALL NEW HALL PUSH BUTTONS, HALL INDICATORS, CAR TRAVEL LANTERNS AND BRAILLE ENTRANCE JAMB PLATES - TYP. OF 17.
70	RETAIN AND REUSE NEW CAR LIGHTING CIRCUIT BREAKERS, DISCONNECT SWITCHES AND ASSOCIATED EQUIPMENT COMPLETE.
106	EXISTING TRANSFORMER TO REMAIN.
107	EXISTING ELEVATOR CONTROLLER TO REMAIN. PROVIDE USMS MODIFICATIONS AS REQUIRED.
108	EXISTING CAR PLATFORM AND COUNTERWEIGHT TO REMAIN.
122	INSTALL NEW CONDUIT AND WIRE FOR CONNECTION TO ELEVATOR CONTROL EQUIPMENT IN THE HOISTWAY DOWN TO THE BASEMENT LEVEL TO COMMAND AND CONTROL CENTER SECURITY CLOSET. MAINTAIN CONNECTION OF ELEVATOR TO ELEVATOR ANNUNCIATOR PANEL IN FIRE ALARM COMMAND CENTER IN BASEMENT ADJACENT TO SHELBY ST ENTRANCE.
138	INSTALL 2 HOUR FIRE-RATED NEW METAL STUD FRAMING AND 3 LAYERS OF 5/8" TYPE X GYP BOARD AROUND EXISTING ROOF CONDUCTOR. FIRE CAULK AGAINST WALL AND CONCRETE ROOF SURFACES. PAINT GYP BOARD. APPROX 120 SQ.FT. OF SURFACE AREA. PROVIDE COMPLETE TURNKEY INSTALLATION.
139	FILL ELEVEN (11) 3" DIA. HOLES WITH CONCRETE PATCH IN FLOOR OF MACHINE PLATFORM.
287	EXISTING OVERSPEED GOVERNOR TO REMAIN.
288	EXISTING COMPENSATING CHAINS TO REMAIN.
289	PROVIDE NEW ELEVATOR CAB SHELL, INTERIOR FINISHES, FLOORING, LIGHTING, CAR DOORS, SILL AND VENTILATION FAN.
290	PROVIDE NEW TRAVEL CABLE.



KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

CONSULTANT IDENTIFICATION

STAMP OR SEAL

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	VARIOUS
DISCIPLINE	ELEVATOR EQUIPMENT
PLAN TYPE	ELEVATOR EQUIP. NEW
SHEET NUMBER AND FILENAME	Q101

SHEET

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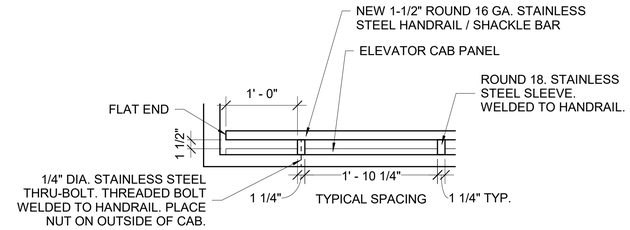
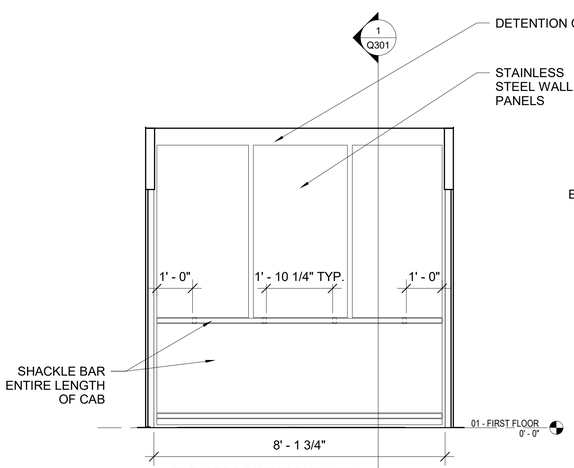
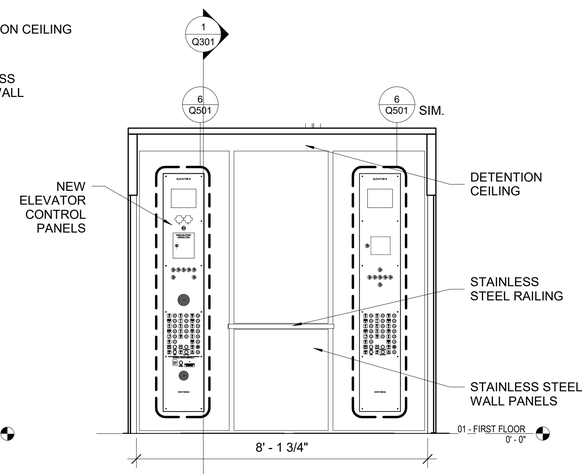


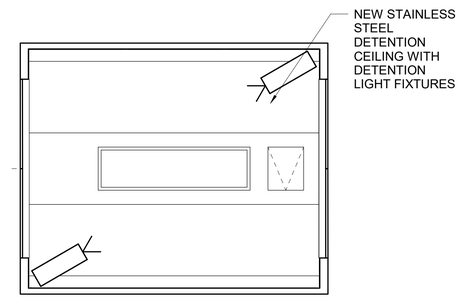
3 Q102 ELEVATOR CAB DETAIL
1" = 1'-0"



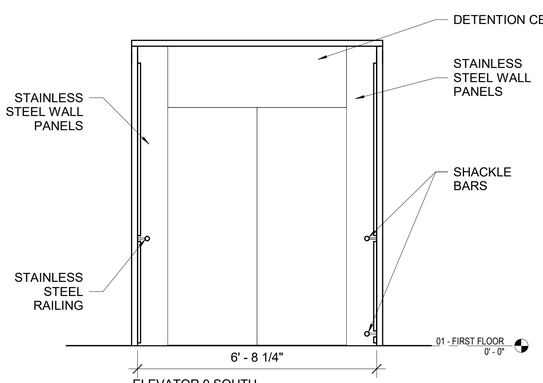
7 Q102 ELEVATOR 9 WEST ELEVATION - NEW
1/2" = 1'-0"



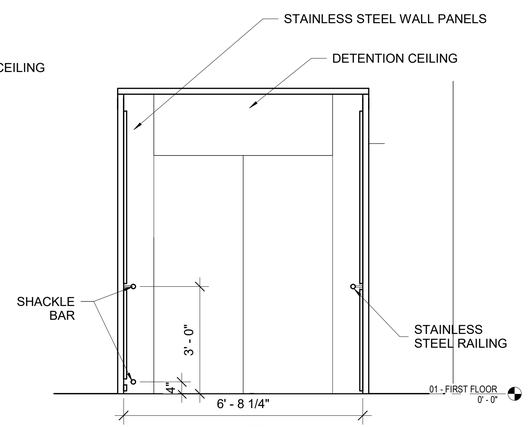
5 Q102 ELEVATOR 9 EAST ELEVATION - NEW
1/2" [redacted]



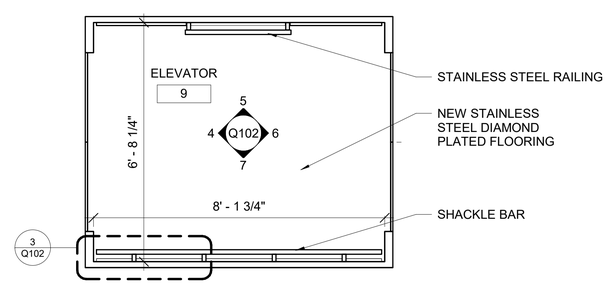
N 2 Q102 ELEVATOR 9 REFLECTED CEILING PLAN - NEW
1/2" = 1'-0"



6 Q102 ELEVATOR 9 SOUTH ELEVATION - NEW
1/2" = 1'-0"



4 Q102 ELEVATOR 9 NORTH ELEVATION - NEW
1/2" = 1'-0"



N 1 Q102 FIRST FLOOR - ELEVATOR 9 ELEVATOR EQUIP. - NEW
1/2" = 1'-0"

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LEGEND

- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- EXISTING DOOR AND FRAME TO REMAIN
- NEW DOOR AND FRAME
- NEW CONCRETE FLOORING

KEY PLAN

GRAPHIC SCALE
1/2"=1'-0" 0 2" 4"

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

STAMP OR SEAL
STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047654
LICENSED ARCHITECT

OWNER IDENTIFICATION
GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
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BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	VARIOUS
DISCIPLINE	ELEVATOR EQUIPMENT
PLAN TYPE	VARIOUS
SHEET NUMBER AND FILENAME	Q102

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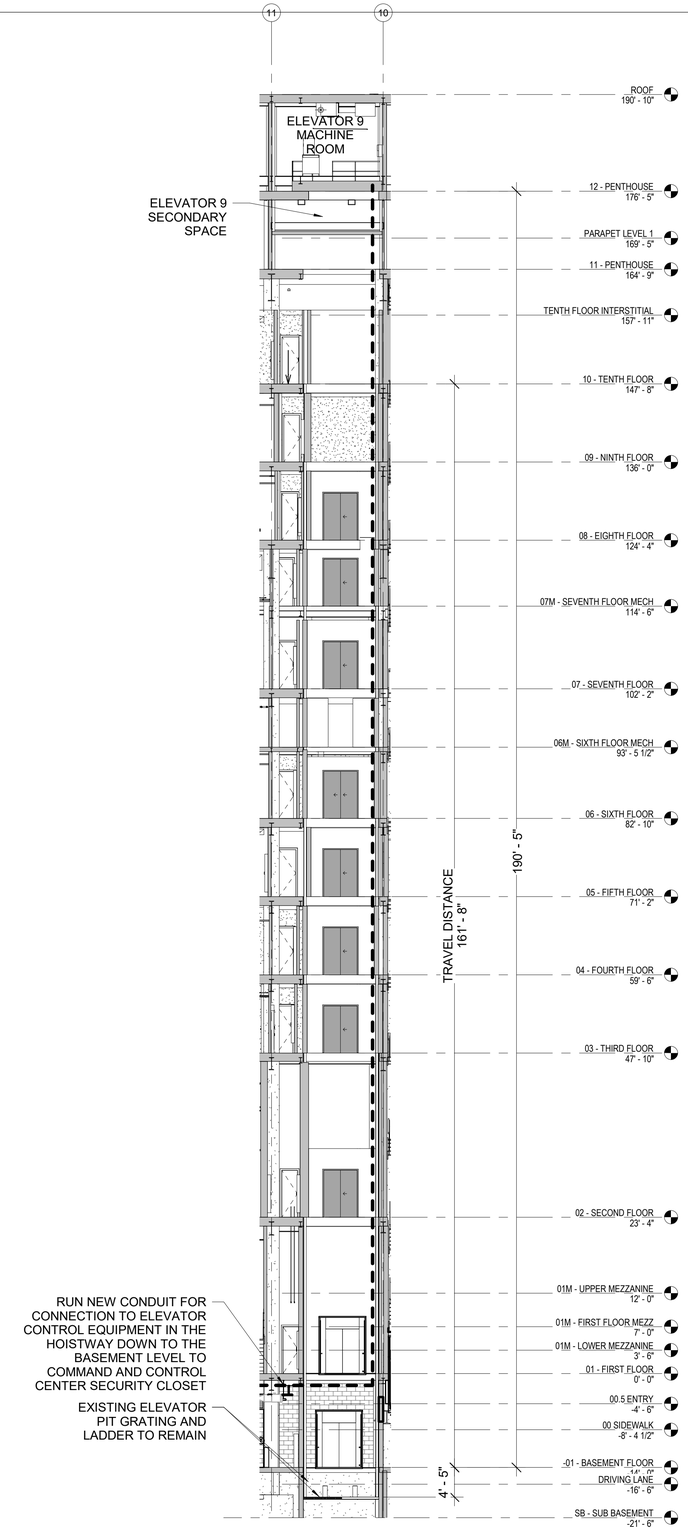

1 Q301 LAFAYETTE ELEVATOR 9 SOUTH SECTION
3/32" = 1'-0"

KEY PLAN

GRAPHIC SCALE

3/32"=1'-0" 0 16" 32"

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

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No. 1301047664
LICENSED ARCHITECT

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GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	VARIOUS
DISCIPLINE	ELEVATOR EQUIPMENT
PLAN TYPE	ELEVATOR EQUIP. SECTION
SHEET NUMBER AND FILENAME	Q301

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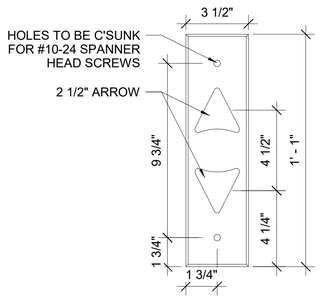
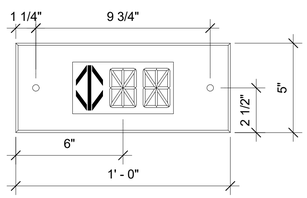
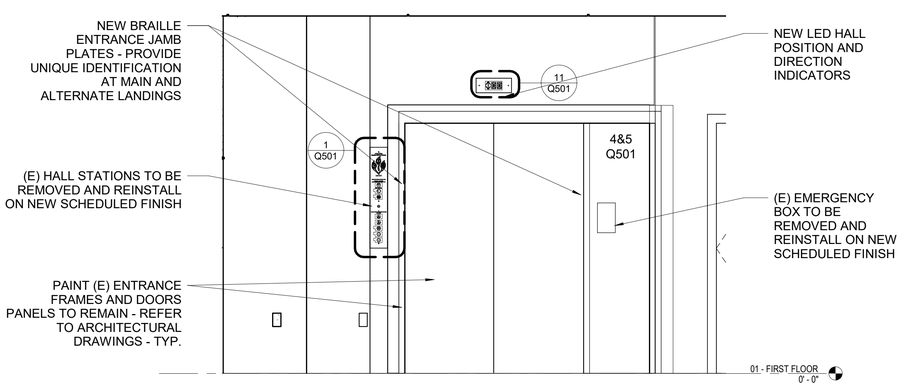


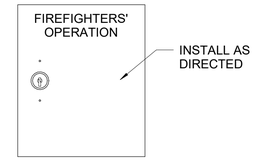
12 Q501 TYP. CAR DIRECTIONAL LANTERN
3" = 1'-0"



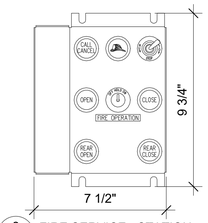
11 Q501 TYP. HALL POSITION INDICATOR
3" = 1'-0"



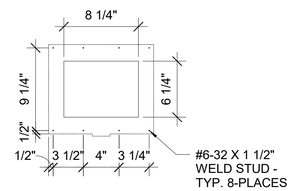
10 Q501 ELEVATOR 9 TYP. MAIN LANDING STATION - NEW
1/2" = 1'-0"



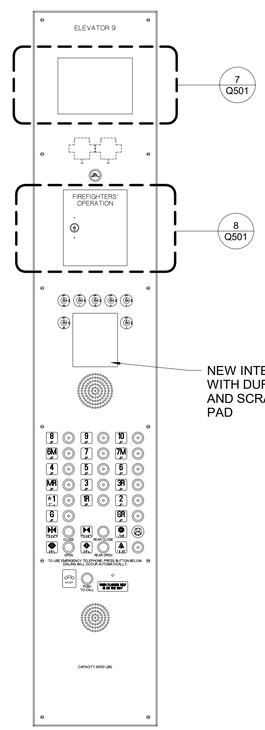
9 Q501 UL - 1037 KEY BOX
3" = 1'-0"



8 Q501 FIRE SERVICE - STATION
3" = 1'-0"



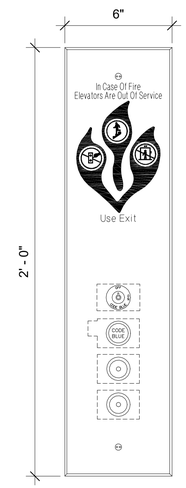
7 Q501 ELITE P.I.
1 1/2" = 1'-0"



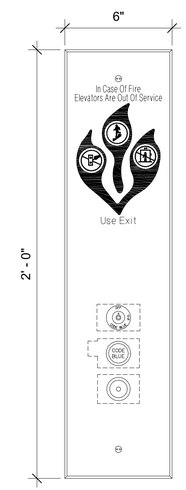
6 Q501 CAR OPERATING PANEL
1 1/2" = 1'-0"

5 Q501 JAMB PLATE - BRAILLE
3" = 1'-0"

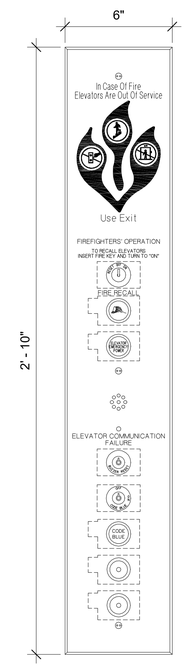
4 Q501 NUMBER TAG - BRAILLE
3" = 1'-0"



3 Q501 TYP. LANDING - STATION
3" = 1'-0"



2 Q501 EGRESS LANDING - STATION
3" = 1'-0"



1 Q501 MAIN EGRESS - STATION
3" = 1'-0"

GENERAL NOTES

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3. ALL WORK AND EQUIPMENT PROVIDED SHALL BE IN ACCORDANCE WITH ASME A17.1-2019, SAFETY CODE FOR ELEVATORS AND ESCALATORS.
4. REFER TO SPECIFICATIONS 14 22 11 FOR CAR PUSH BUTTON STATION AND DOOR OPERATING EQUIPMENT DETAILS.

KEY PLAN

GRAPHIC SCALE

3"=1'-0" 0 1/2" 1'

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

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PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	VARIOUS
DISCIPLINE	ELEVATOR EQUIPMENT
PLAN TYPE	ELEVATOR EQUIP. DETAILS
SHEET NUMBER AND FILENAME	Q501

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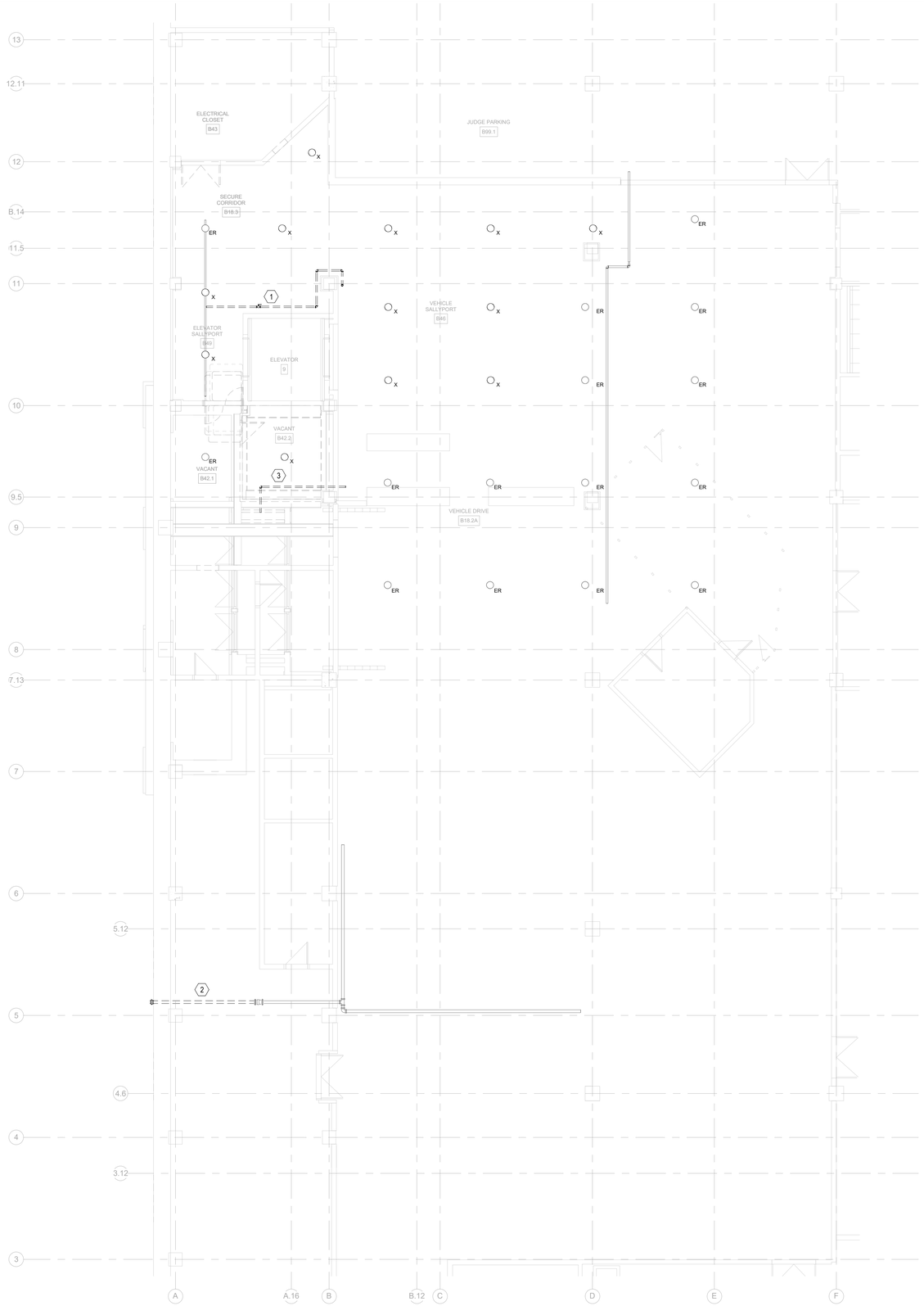


1 -01 - BASEMENT PARTIAL FLOOR-CSP-DEMO-FP
1/8" = 1'-0"

KEYED NOTES:

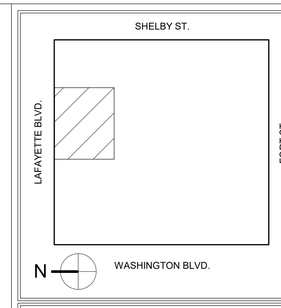
1. RELOCATE EXISTING INSPECTOR'S TEST STATION AND PIPING TO LOCATION SHOWN ON SHEET FP100
2. DISCONNECT AND REMOVE EXISTING FDC AND ASSOCIATED PIPING UP TO EXISTING CHECK VALVE. FDC TO BE RELOCATED TO LOCATION SHOWN ON SHEET FP100
3. DISCONNECT AND REMOVE EXISTING PIPING FROM MAIN TO ABANDONED RISER. CMC TO VERIFY THAT THIS PIPING IS NO LONGER IN SERVICE PRIOR TO DISCONNECTION AND REMOVAL.

SYMBOL LEGEND:

- NEW PIPING
- EXISTING PIPING TO REMAIN
- EXISTING PIPING TO BE REMOVED
- 1/2-INCH, QUICK RESPONSE, SEMI-RECESSED CHROME PENDENT SPRINKLER, NEW
- ER SEMI-RECESSED PENDENT SPRINKLER, EXISTING TO REMAIN
- X SEMI-RECESSED PENDENT SPRINKLER, EXISTING TO BE REMOVED
- 1/2-INCH, QUICK RESPONSE, BRASS UPRIGHT SPRINKLER, NEW
- ER UPRIGHT SPRINKLER, EXISTING TO REMAIN
- X UPRIGHT SPRINKLER, EXISTING TO BE REMOVED
- 1/2-INCH, QUICK RESPONSE, INSTITUTIONAL FLUSH PENDENT SPRINKLER, NEW
- 1/2-INCH, QUICK RESPONSE, HORIZONTAL SIDEWALL SPRINKLER, NEW
- ER 1/2-INCH, HORIZONTAL SIDEWALL SPRINKLER, EXISTING TO REMAIN
- SUPERVISED CONTROL VALVE
- CONNECTION, NEW TO EXISTING

GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE EXISTING SPRINKLER SYSTEM DEACTIVATIONS TO ENSURE THE GSA HAS MADE PROVISIONS TO SAFEGUARD THE AFFECTED AREA. CONTRACTOR SHALL EXECUTE WORK IN SUCH A MANNERS AS TO MINIMIZE THE AMOUNT OF TIME SPRINKLER SYSTEMS ARE NOT OPERATIONAL COORDINATE WITH THE GSA PROJECT MANAGER FOR IMPAIRMENT OF EXISTING BASEMENT SPRINKLER SYSTEM.
2. UPRIGHT SPRINKLERS ARE REQUIRED IN DEMOLITION AREA IF SPRINKLERS ARE TO BE OUT OF SERVICE FOR MORE THAN 30 DAYS.



KEY PLAN

1/8"=1'-0" 0 8' 16'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

JENSEN HUGHES
1500 McConnor Parkway, Suite 500
Schaumburg, IL 60173
+1 847.268.2420

CONSULTANT IDENTIFICATION

STATE OF MICHIGAN
RICK GLENN
ENGINEER No. 6201058980
LICENSED PROFESSIONAL ENGINEER

STAMP OR SEAL

General Services Administration
Public Buildings Service
Great Lakes

Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	TME
CHECKED BY	RGL
FLOOR NO.	BASEMENT
DISCIPLINE	FIRE PROTECTION
PLAN TYPE	RCP
SHEET NUMBER AND FILENAME	FPD100

SHEET

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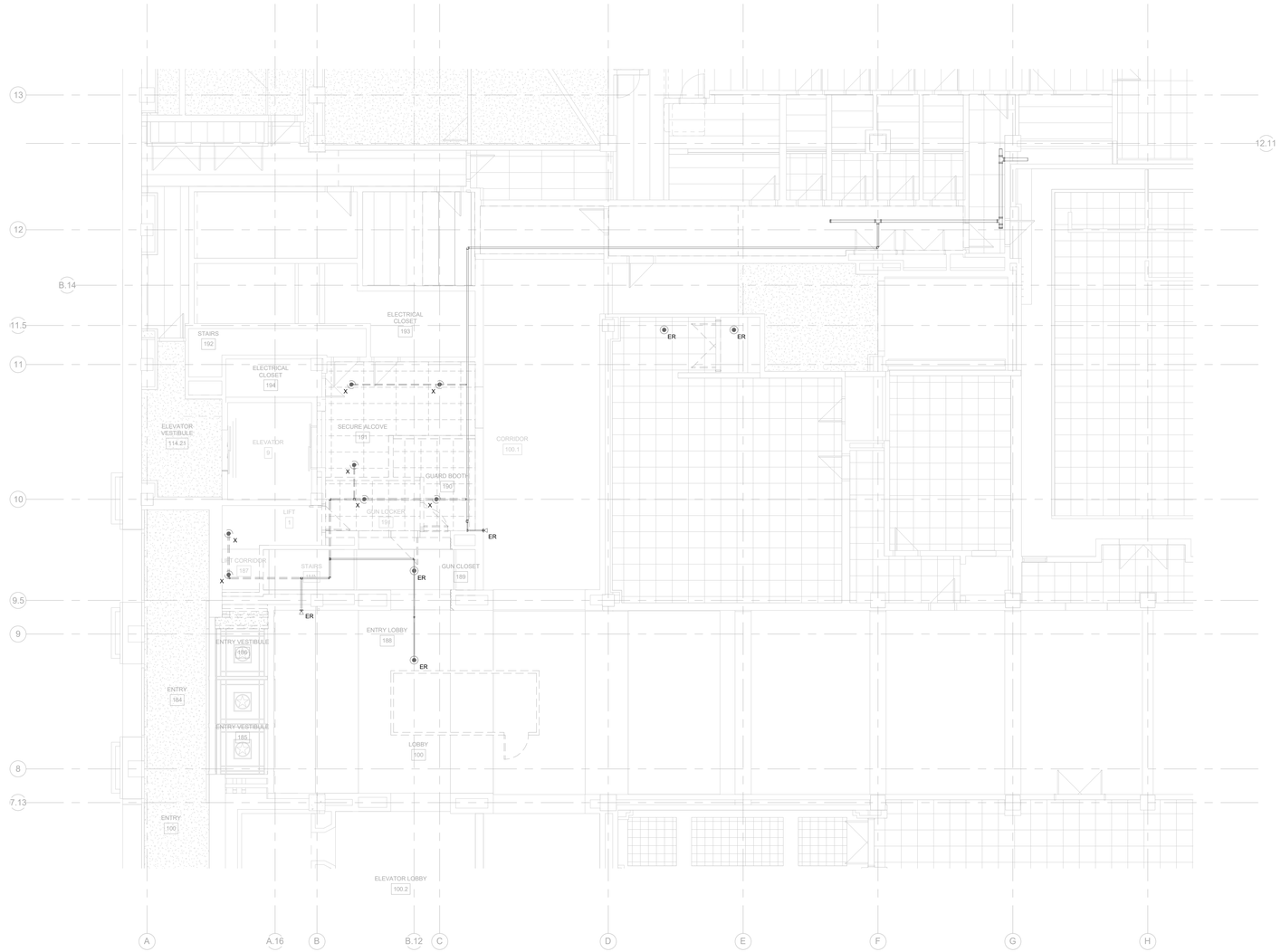

1 01 - FIRST PARTIAL FLOOR-CSP-DEMO-FP
1/8" = 1'-0"

SYMBOL LEGEND:

- NEW PIPING
- EXISTING PIPING TO REMAIN
- EXISTING PIPING TO BE REMOVED
- 1/2-INCH, QUICK RESPONSE, SEMI-RECESSED CHROME PENDENT SPRINKLER, NEW
- ER SEMI-RECESSED PENDENT SPRINKLER, EXISTING TO REMAIN
- X SEMI-RECESSED PENDENT SPRINKLER, EXISTING TO BE REMOVED
- 1/2-INCH, QUICK RESPONSE, BRASS UPRIGHT SPRINKLER, NEW
- ER UPRIGHT SPRINKLER, EXISTING TO REMAIN
- X UPRIGHT SPRINKLER, EXISTING TO BE REMOVED
- 1/2-INCH, QUICK RESPONSE, INSTITUTIONAL FLUSH PENDENT SPRINKLER, NEW
- 1/2-INCH, QUICK RESPONSE, HORIZONTAL SIDEWALL SPRINKLER, NEW
- ER 1/2-INCH, HORIZONTAL SIDEWALL SPRINKLER, EXISTING TO REMAIN
- SUPERVISED CONTROL VALVE
- CONNECTION, NEW TO EXISTING

GENERAL NOTES:

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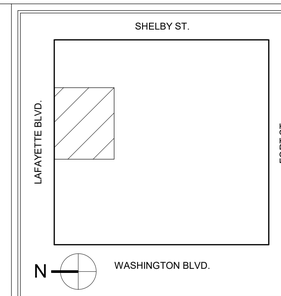
KEY PLAN



GRAPHIC SCALE

1/8"=1'-0" 0 8' 16'

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

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BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
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CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	TME
CHECKED BY	RGL
FLOOR NO.	FIRST FLOOR
DISCIPLINE	FIRE PROTECTION
PLAN TYPE	RCP
SHEET NUMBER AND FILENAME	FPD101

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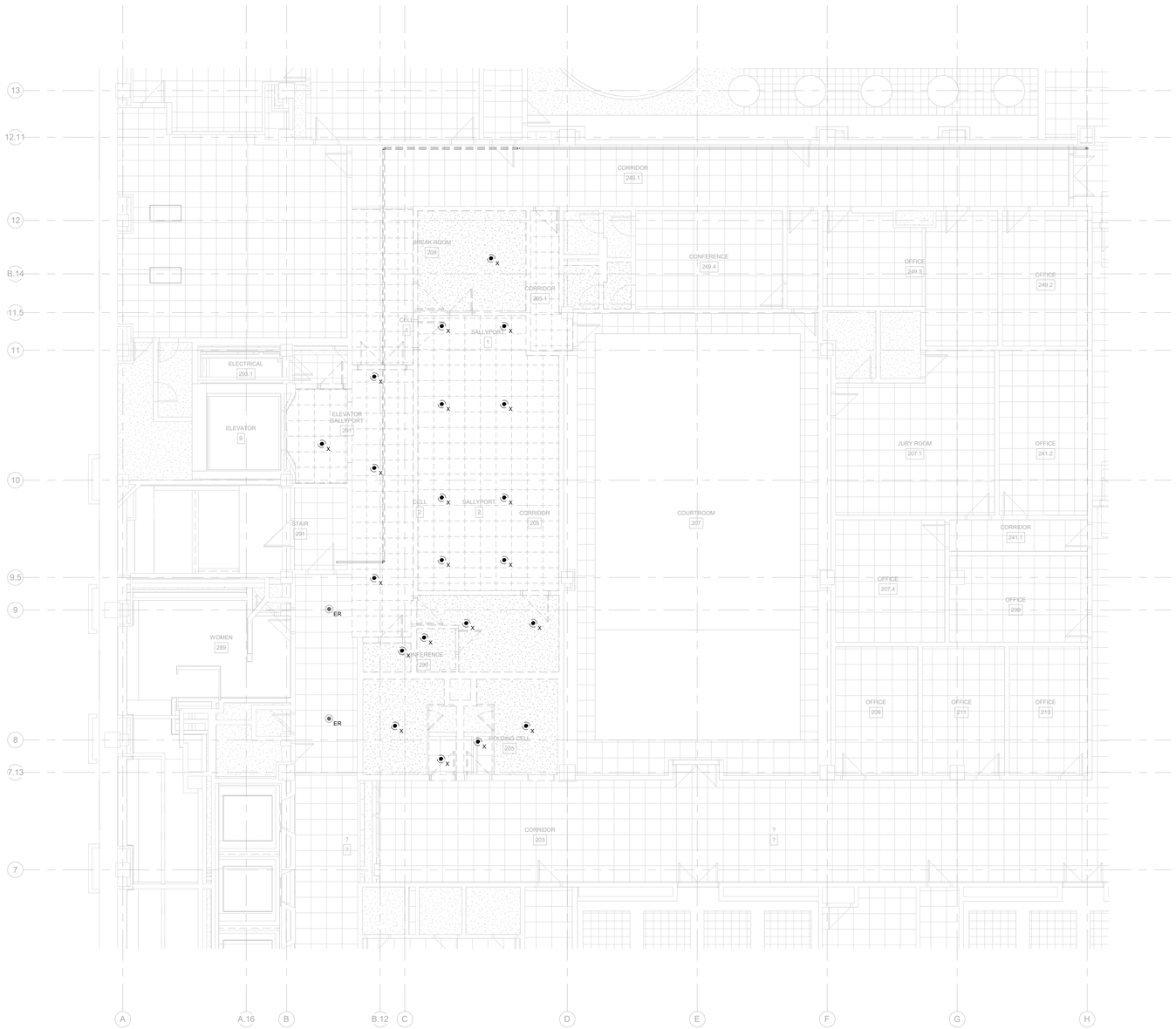

1 02 - SECOND PARTIAL FLOOR-CSP-DEMO-FP
1/8" = 1'-0"

SYMBOL LEGEND:

- NEW PIPING
- EXISTING PIPING TO REMAIN
- EXISTING PIPING TO BE REMOVED
- 1/2-INCH, QUICK RESPONSE, SEMI-RECESSED CHROME PENDENT SPRINKLER, NEW
- ER SEMI-RECESSED PENDENT SPRINKLER, EXISTING TO REMAIN
- X SEMI-RECESSED PENDENT SPRINKLER, EXISTING TO BE REMOVED
- 1/2-INCH, QUICK RESPONSE, BRASS UPRIGHT SPRINKLER, NEW
- ER UPRIGHT SPRINKLER, EXISTING TO REMAIN
- X UPRIGHT SPRINKLER, EXISTING TO BE REMOVED
- 1/2-INCH, QUICK RESPONSE, INSTITUTIONAL FLUSH PENDENT SPRINKLER, NEW
- 1/2-INCH, QUICK RESPONSE, HORIZONTAL SIDEWALL SPRINKLER, NEW
- ER 1/2-INCH, HORIZONTAL SIDEWALL SPRINKLER, EXISTING TO REMAIN
- SUPERVISED CONTROL VALVE
- CONNECTION, NEW TO EXISTING

GENERAL NOTES:

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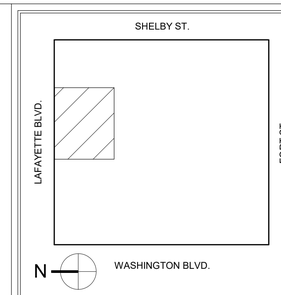
KEY PLAN



GRAPHIC SCALE

1/8"=1'-0" 0 8' 16'

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

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BUILDINGS

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ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	TME
CHECKED BY	RGL
FLOOR NO.	SECOND FLOOR
DISCIPLINE	FIRE PROTECTION
PLAN TYPE	RCP
SHEET NUMBER AND FILENAME	FPD102

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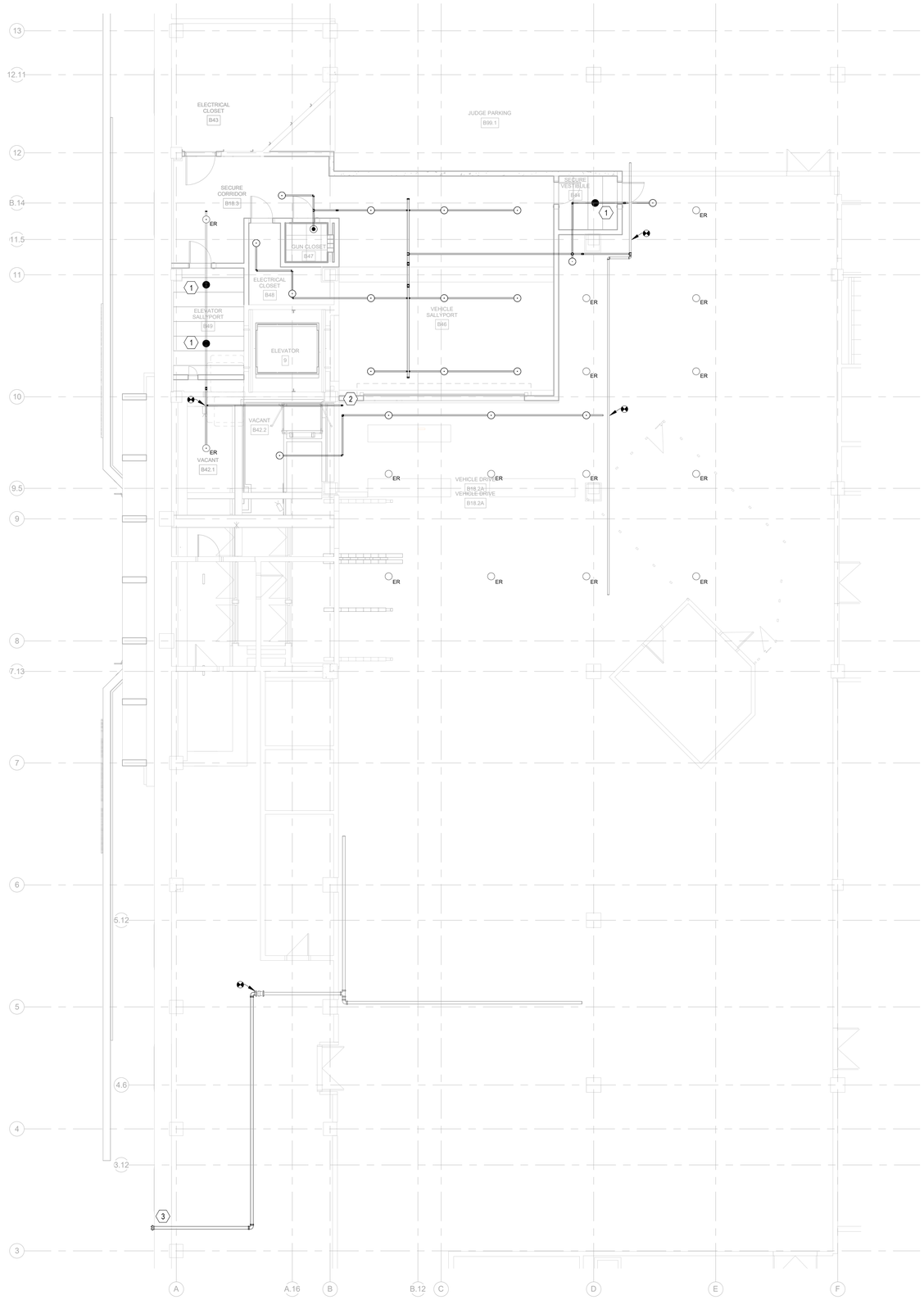


1 -01 - BASEMENT PARTIAL FLOOR-CSP-FP
1/8" = 1'-0"

KEYED NOTES:

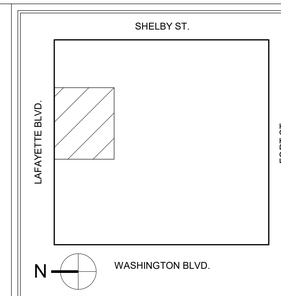
1. PROVIDE INSTITUTIONAL QUICK-RESPONSE, FLUSH PENDENT TYPE, STANDARD COVERAGE SPRINKLER WITH SOLDER-LINK FUSIBLE ELEMENT, TAMPER RESISTANT ESCUTCHEON AND RETAINING FLANGE THAT PREVENTS SPRINKLER MOVEMENT AWAY FROM CEILING.
2. RELOCATE EXISTING INSPECTOR'S TEST CONNECTION AND DRAIN PIPING TO THIS LOCATION
3. RELOCATE EXISTING FDC TO THIS LOCATION

SYMBOL LEGEND:

- NEW PIPING
- EXISTING PIPING TO REMAIN
- EXISTING PIPING TO BE REMOVED
- 1/2-INCH, QUICK RESPONSE, SEMI-RECESSED CHROME PENDENT SPRINKLER, NEW
- SEMI-RECESSED PENDENT SPRINKLER, EXISTING TO REMAIN
- SEMI-RECESSED PENDENT SPRINKLER, EXISTING TO BE REMOVED
- 1/2-INCH, QUICK RESPONSE, BRASS UPRIGHT SPRINKLER, NEW
- UPRIGHT SPRINKLER, EXISTING TO REMAIN
- UPRIGHT SPRINKLER, EXISTING TO BE REMOVED
- 1/2-INCH, QUICK RESPONSE, INSTITUTIONAL FLUSH PENDENT SPRINKLER, NEW
- 1/2-INCH, QUICK RESPONSE, HORIZONTAL SIDEWALL SPRINKLER, NEW
- 1/2-INCH, HORIZONTAL SIDEWALL SPRINKLER, EXISTING TO REMAIN
- SUPERVISED CONTROL VALVE
- CONNECTION, NEW TO EXISTING

GENERAL NOTES:

1. NEW SPRINKLERS SHALL BE SUPPLIED BY CONNECTIONS TO EXISTING PIPING.
2. CONTRACTOR SHALL COORDINATE EXISTING SPRINKLER SYSTEM DEACTIVATIONS TO ENSURE THE GSA HAS MADE PROVISIONS TO SAFEGUARD THE AFFECTED AREA. CONTRACTOR SHALL EXECUTE WORK IN SUCH A MANNERS AS TO MINIMIZE THE AMOUNT OF TIME SPRINKLER SYSTEMS ARE NOT OPERATIONAL. COORDINATE WITH THE GSA PROJECT MANAGER FOR IMPAIRMENT OF EXISTING BASEMENT SPRINKLER SYSTEM.
3. ALL SPRINKLER PIPING INSTALLED IN AREAS WITH SUSPENDING CEILINGS SHALL BE CONCEALED ABOVE THE SUSPENDED CEILINGS.
4. REFER TO ARCHITECTURAL DRAWINGS FOR WALL AND CEILING TYPES.
5. FIRE SPRINKLER SYSTEM MODIFICATIONS SHALL BE HYDRAULICALLY DESIGNED BASED ON THE FOLLOWING FIRE PUMP FLOW TEST DATA:
   STATIC PRESSURE: 125 PSI
   RESIDUAL PRESSURE: 108 PSI
   FLOW: 1004 GPM
   TEST DATE: 11/14/2022



KEY PLAN

1/8"=1'-0" 0 8' 16'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

JENSEN HUGHES
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Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	TME
CHECKED BY	RGL
FLOOR NO.	BASEMENT
DISCIPLINE	FIRE PROTECTION
PLAN TYPE	RCP
SHEET NUMBER AND FILENAME	FP100

SHEET

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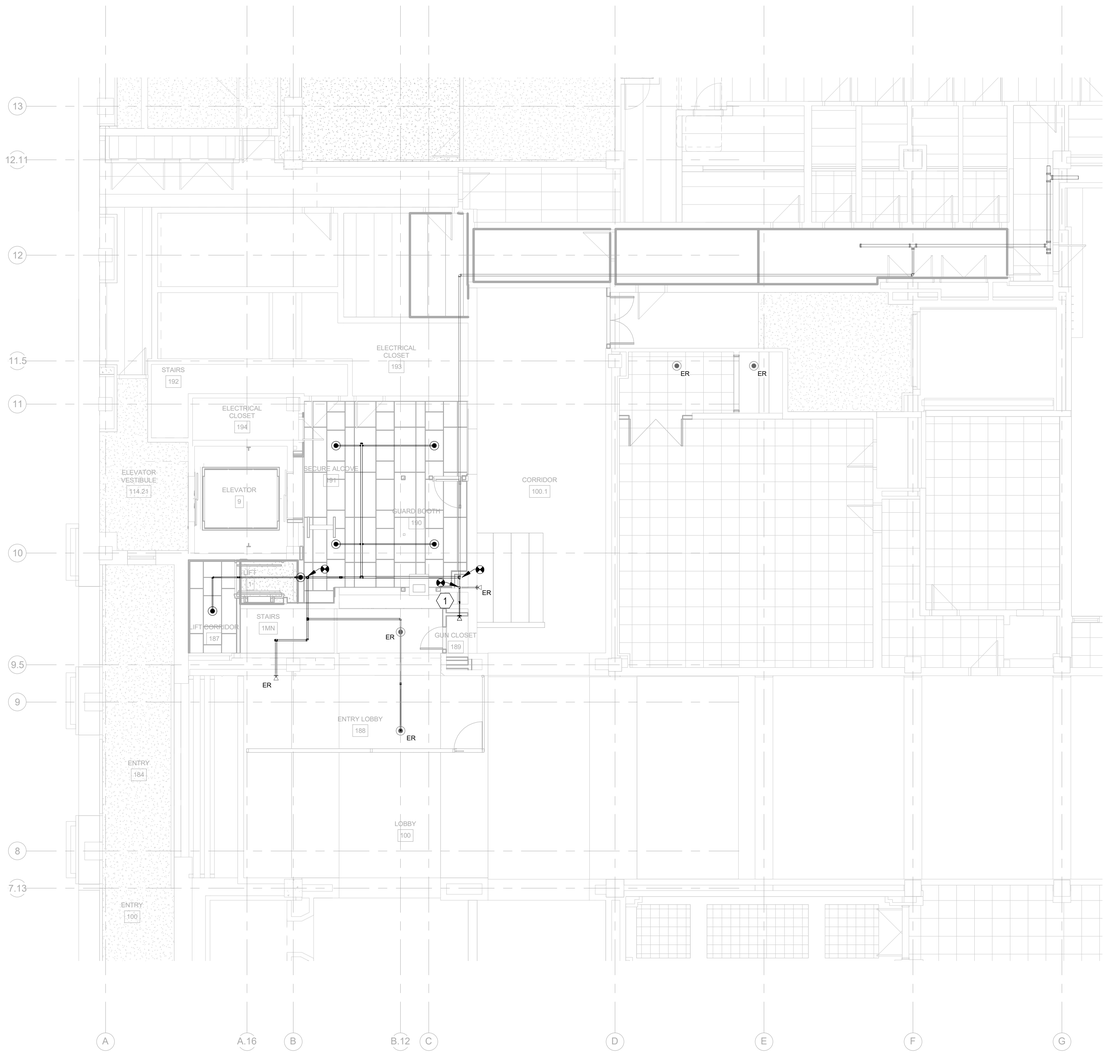

1 01 - FIRST PARTIAL FLOOR-CSP-FP
1/8" = 1'-0"

KEYED NOTES:

1. INSTALL PIPING IN CHASE TO SUPPLY HORIZONTAL SIDEWALL SPRINKLER IN GUN CLOSET.

SYMBOL LEGEND:

- NEW PIPING
- EXISTING PIPING TO REMAIN
- EXISTING PIPING TO BE REMOVED
- 1/2-INCH, QUICK RESPONSE, SEMI-RECESSED CHROME PENDENT SPRINKLER, NEW
- ER SEMI-RECESSED PENDENT SPRINKLER, EXISTING TO REMAIN
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- 1/2-INCH, QUICK RESPONSE, HORIZONTAL SIDEWALL SPRINKLER, NEW
- ER 1/2-INCH, HORIZONTAL SIDEWALL SPRINKLER, EXISTING TO REMAIN
- SUPERVISED CONTROL VALVE
- CONNECTION, NEW TO EXISTING

GENERAL NOTES:

1. NEW SPRINKLERS SHALL BE SUPPLIED BY CONNECTIONS TO EXISTING PIPING.
2. CONTRACTOR SHALL COORDINATE EXISTING SPRINKLER SYSTEM DEACTIVATIONS TO ENSURE THE GSA HAS MADE PROVISIONS TO SAFEGUARD THE AFFECTED AREA. CONTRACTOR SHALL EXECUTE WORK IN SUCH A MANNERS AS TO MINIMIZE THE AMOUNT OF TIME SPRINKLER SYSTEMS ARE NOT OPERATIONAL. COORDINATE WITH THE GSA PROJECT MANAGER FOR IMPAIRMENT OF EXISTING BASEMENT SPRINKLER SYSTEM.
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4. REFER TO ARCHITECTURAL DRAWINGS FOR WALL AND CEILING TYPES.
5. FIRE SPRINKLER SYSTEM MODIFICATIONS SHALL BE HYDRAULICALLY DESIGNED BASED ON THE FOLLOWING FIRE PUMP FLOW TEST DATA:
   STATIC PRESSURE: 125 PSI
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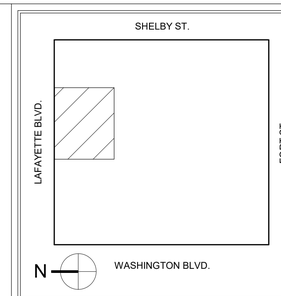
   FLOW: 1004 GPM
   TEST DATE: 11/14/2022



KEY PLAN

1/8"=1'-0" 0 8' 16'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
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BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	TME
CHECKED BY	RGL
FLOOR NO.	FIRST FLOOR
DISCIPLINE	FIRE PROTECTION
PLAN TYPE	RCP
SHEET NUMBER AND FILENAME	FP101

SHEET

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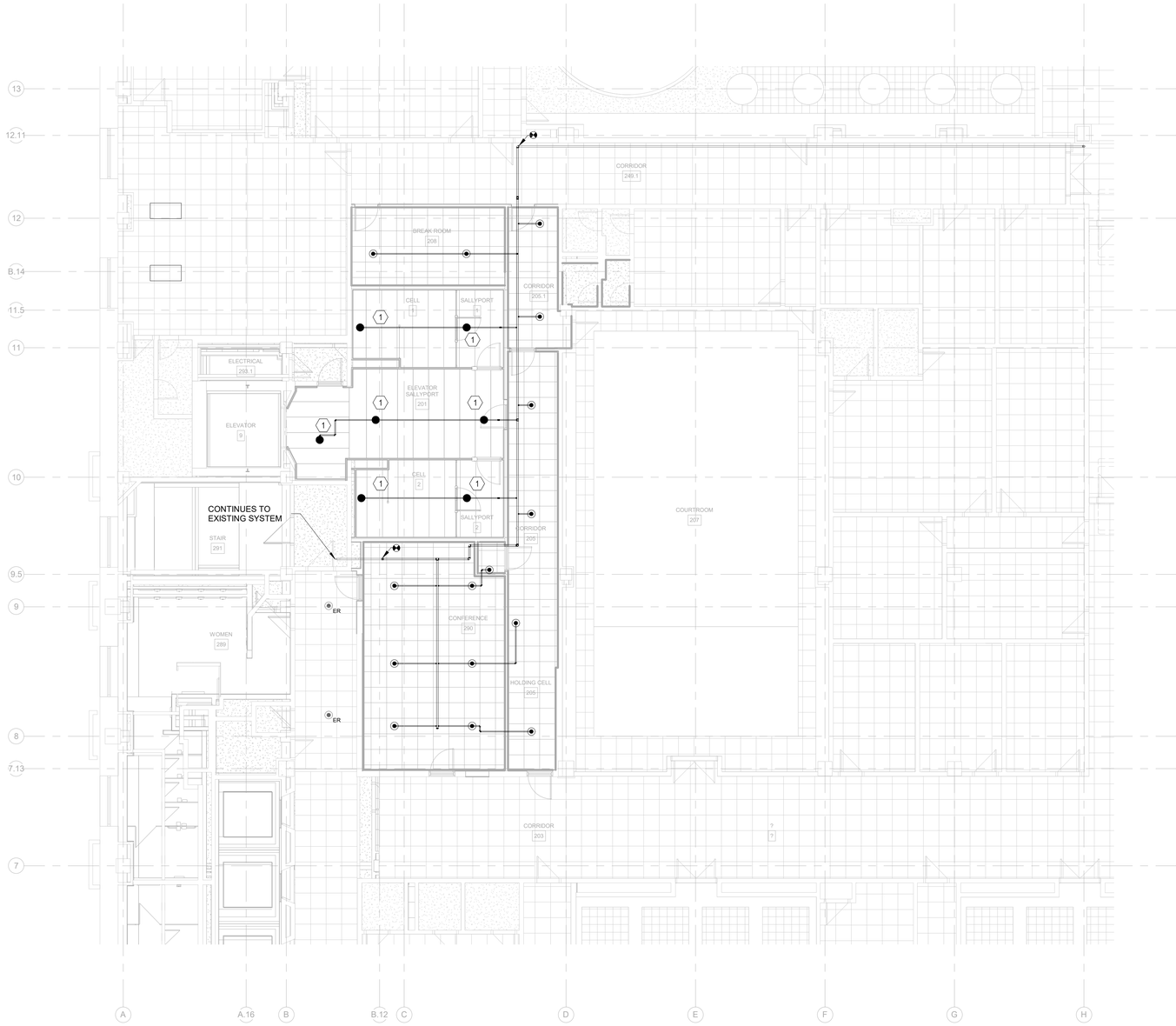

1 02 - SECOND PARTIAL FLOOR-CSP-FP
1/8" = 1'-0"

KEYED NOTES:

1. PROVIDE INSTITUTIONAL QUICK-RESPONSE, FLUSH PENDENT TYPE, STANDARD COVERAGE SPRINKLER WITH SOLDER-LINK FUSIBLE ELEMENT, TAMPER RESISTANT ESCUTCHEON AND RETAINING FLANGE THAT PREVENTS SPRINKLER MOVEMENT AWAY FROM CEILING.

SYMBOL LEGEND:

- NEW PIPING
- EXISTING PIPING TO REMAIN
- EXISTING PIPING TO BE REMOVED
- 1/2-INCH, QUICK RESPONSE, SEMI-RECESSED CHROME PENDENT SPRINKLER, NEW
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- 1/2-INCH, QUICK RESPONSE, HORIZONTAL SIDEWALL SPRINKLER, NEW
- ER 1/2-INCH, HORIZONTAL SIDEWALL SPRINKLER, EXISTING TO REMAIN
- SUPERVISED CONTROL VALVE
- CONNECTION, NEW TO EXISTING

GENERAL NOTES:

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2. CONTRACTOR SHALL COORDINATE EXISTING SPRINKLER SYSTEM DEACTIVATIONS TO ENSURE THE GSA HAS MADE PROVISIONS TO SAFEGUARD THE AFFECTED AREA. CONTRACTOR SHALL EXECUTE WORK IN SUCH A MANNERS AS TO MINIMIZE THE AMOUNT OF TIME SPRINKLER SYSTEMS ARE NOT OPERATIONAL. COORDINATE WITH THE GSA PROJECT MANAGER FOR IMPAIRMENT OF EXISTING BASEMENT SPRINKLER SYSTEM.
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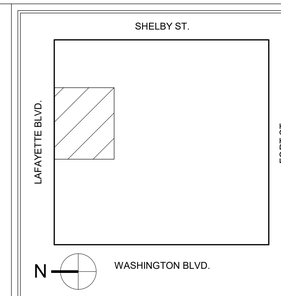
KEY PLAN



GRAPHIC SCALE

1/8"=1'-0" 0 8' 16'

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GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	TME
CHECKED BY	RGL
FLOOR NO.	SECOND FLOOR
DISCIPLINE	FIRE PROTECTION
PLAN TYPE	RCP
SHEET NUMBER AND FILENAME	FP102

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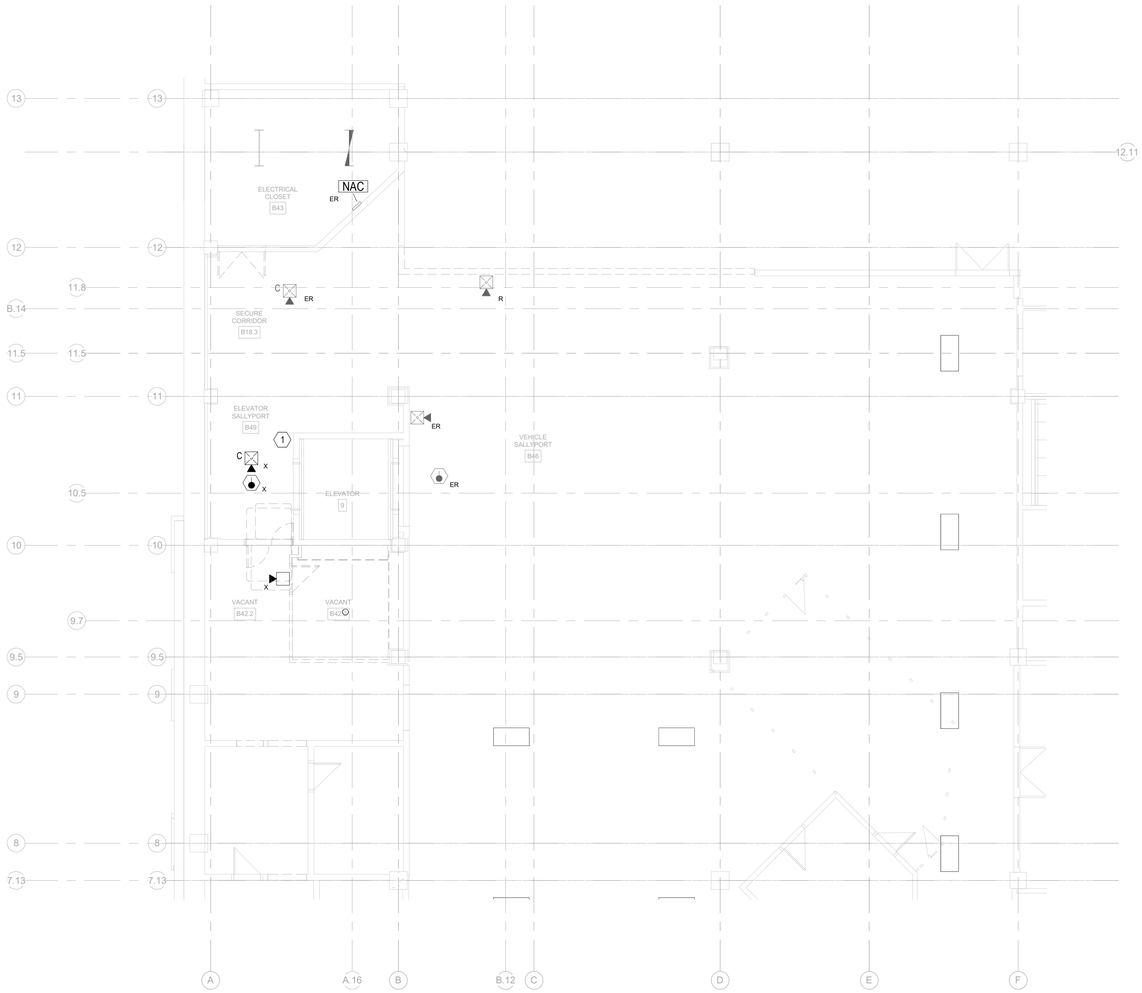


1 -01 - BASEMENT PARTIAL FLOOR-CSP-DEMO-FA
1/8" = 1'-0"

KEYED NOTES:

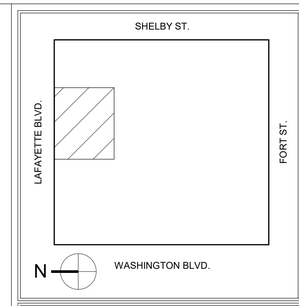
1. RELOCATE EXISTING JUNCTION BOX AND WIRING TO NEW ELECTRICAL CLOSET, SEE SHEET FA100.

SYMBOL LEGEND:

- ER — SMOKE DETECTOR, EXISTING TO REMAIN
- R — SMOKE DETECTOR, EXISTING TO BE RELOCATED
- X — HEAT DETECTOR, EXISTING TO BE REMOVED
- ER — HEAT DETECTOR, EXISTING TO REMAIN
- ER, C — COMBINATION SPEAKER/STROBE APPLIANCE - CEILING-MOUNTED, EXISTING TO REMAIN
- X, C — COMBINATION SPEAKER/STROBE APPLIANCE - CEILING-MOUNTED, EXISTING TO BE REMOVED
- R, C — COMBINATION SPEAKER/STROBE APPLIANCE - CEILING-MOUNTED, EXISTING TO BE RELOCATED
- ER — SPEAKER ONLY, EXISTING TO REMAIN
- X — SPEAKER ONLY, EXISTING TO BE REMOVED
- NAC, ER — NOTIFICATION CIRCUIT POWER SUPPLY PANEL, EXISTING TO REMAIN

GENERAL NOTES:

1. THE WORK UNDER THIS PROJECT INCLUDES DISCONNECTION AND REMOVAL OF EXISTING FIRE ALARM SYSTEM DEVICES, CONDUIT, WIRING AND OTHER ACCESSORIES OR ATTACHMENTS AFTER ACCEPTANCE OF THE NEW SYSTEM, UNLESS NOTED OTHERWISE.
2. CONTRACTOR SHALL COORDINATE EXISTING FIRE ALARM SYSTEM DEACTIVATIONS WITH THE GSA. CONTRACTOR SHALL EXECUTE WORK IN SUCH A MANNER AS TO MINIMIZE THE AMOUNT OF TIME BUILDING FIRE ALARM SYSTEM IS NOT OPERATIONAL. COORDINATE WITH THE CONTRACTING OFFICER FOR DISABLEMENT OF EXISTING FIRE ALARM SYSTEM. EXISTING SYSTEMS SHALL BE REACTIVATED AT THE END OF EACH WORK DAY. FOR ANY FIRE ALARM SYSTEM IMPAIRMENTS OF MORE THAN A TOTAL OF 4 HOURS IN ANY 24 HOUR PERIOD, THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 72. IN ADDITION, THE CONTRACTOR SHALL COMPLY WITH THE GSA REGIONAL FIRE PROTECTION SYSTEM IMPAIRMENT POLICY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROVED FIRE WATCH, AND COORDINATION OF FIRE PROTECTION SYSTEM IMPAIRMENTS IN THE PROJECT AREA WITH GSA PROPERTY MANAGEMENT.
3. CONTRACTOR SHALL PROVIDE AND INSTALL REPLACEMENT CEILING TILES OF SAME TYPE, SIZE, THICKNESS, COLOR AND FINISH TO REPLACE THOSE DAMAGED DURING THE COURSE OF CONTRACTOR'S WORK, AND THOSE WHERE HOLES ARE LEFT FROM DEVICE REMOVALS. REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFIC REQUIREMENTS.
4. THE CONTRACTOR SHALL REFINISH EXISTING WALLS AND CEILINGS WHERE PENETRATIONS, REMOVALS, INSTALLATION OR OTHER ACTIONS BY THE CONTRACTOR HAVE MARRED OR LEFT HOLES IN THESE SURFACES, AND SAME SHALL BE PATCHED, REPAIRED AND PAINTED BY THE CONTRACTOR TO MATCH ADJACENT FINISHES. PAINTING SHALL NOT ONLY INCLUDE REPAIRED PORTION BUT ALSO ENTIRE EXISTING WALL AND/OR CEILING SURFACE TO A POINT WHERE THERE IS A BREAK IN MATERIALS AND/OR A CORNER EDGE EXIST.



KEY PLAN

1/8"=1'-0" 0 8' 16'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

JENSEN HUGHES
1500 McConnor Parkway, Suite 500
Schaumburg, IL 60173
+1 847.268.2420

CONSULTANT IDENTIFICATION

STATE OF MICHIGAN
RICK GLENN
ENGINEER
No. 6201058980
LICENSED PROFESSIONAL ENGINEER

STAMP OR SEAL

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	TME
CHECKED BY	RGL
FLOOR NO.	BASEMENT
DISCIPLINE	FIRE ALARM
PLAN TYPE	RCP
SHEET NUMBER AND FILENAME	FAD100

SHEET

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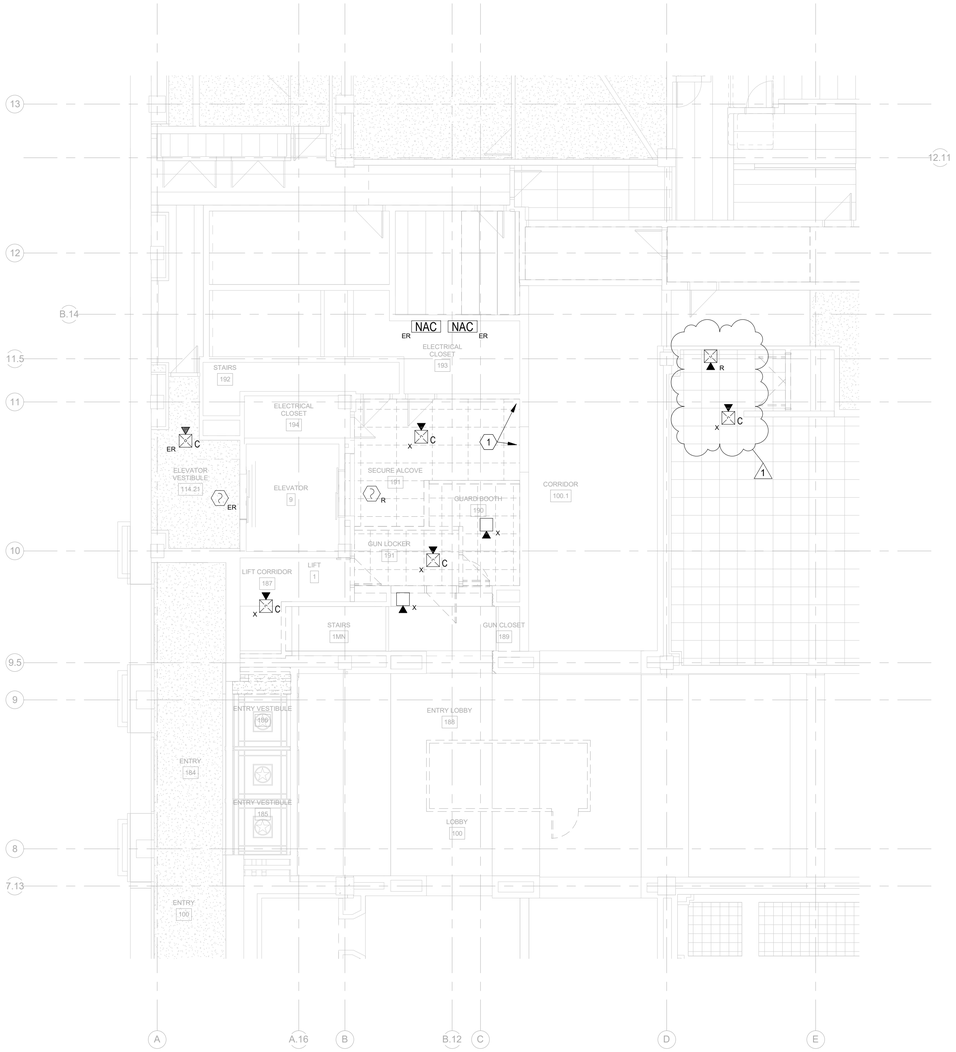

1 01 - FIRST PARTIAL FLOOR-CSP-DEMO-FA
1/8" = 1'-0"

KEYED NOTES:

1. DISCONNECT AND REMOVE EXISTING ABANDONED FIRE ALARM SYSTEM CABINETS, MODULES, AND ASSOCIATED CONDUIT AND WIRING.

SYMBOL LEGEND:

- SMOKE DETECTOR, EXISTING TO REMAIN
- SMOKE DETECTOR, EXISTING TO BE RELOCATED
- HEAT DETECTOR, EXISTING TO BE REMOVED
- HEAT DETECTOR, EXISTING TO REMAIN
- COMBINATION SPEAKER/STROBE APPLIANCE - CEILING-MOUNTED, EXISTING TO REMAIN
- COMBINATION SPEAKER/STROBE APPLIANCE - CEILING-MOUNTED, EXISTING TO BE REMOVED
- COMBINATION SPEAKER/STROBE APPLIANCE - CEILING-MOUNTED, EXISTING TO BE RELOCATED
- SPEAKER ONLY, EXISTING TO REMAIN
- SPEAKER ONLY, EXISTING TO BE REMOVED
- NAC — NOTIFICATION CIRCUIT POWER SUPPLY PANEL, EXISTING TO REMAIN

GENERAL NOTES:

1. THE WORK UNDER THIS PROJECT INCLUDES DISCONNECTION AND REMOVAL OF EXISTING FIRE ALARM SYSTEM DEVICES, CONDUIT, WIRING AND OTHER ACCESSORIES OR ATTACHMENTS AFTER ACCEPTANCE OF THE NEW SYSTEM, UNLESS NOTED OTHERWISE.
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3. CONTRACTOR SHALL PROVIDE AND INSTALL REPLACEMENT CEILING TILES OF SAME TYPE, SIZE, THICKNESS, COLOR AND FINISH TO REPLACE THOSE DAMAGED DURING THE COURSE OF CONTRACTOR'S WORK, AND THOSE WHERE HOLES ARE LEFT FROM DEVICE REMOVALS. REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFIC REQUIREMENTS.
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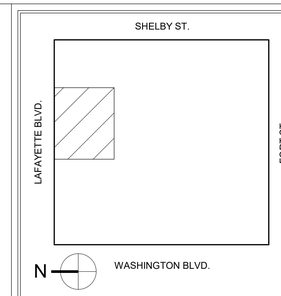

KEY PLAN

1/8"=1'-0" 0 8' 16'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION
1	02/15/2023	100% REVISION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

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BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	TME
CHECKED BY	RGL
FLOOR NO.	FIRST FLOOR
DISCIPLINE	FIRE ALARM
PLAN TYPE	RCP
SHEET NUMBER AND FILENAME	FAD101

SHEET

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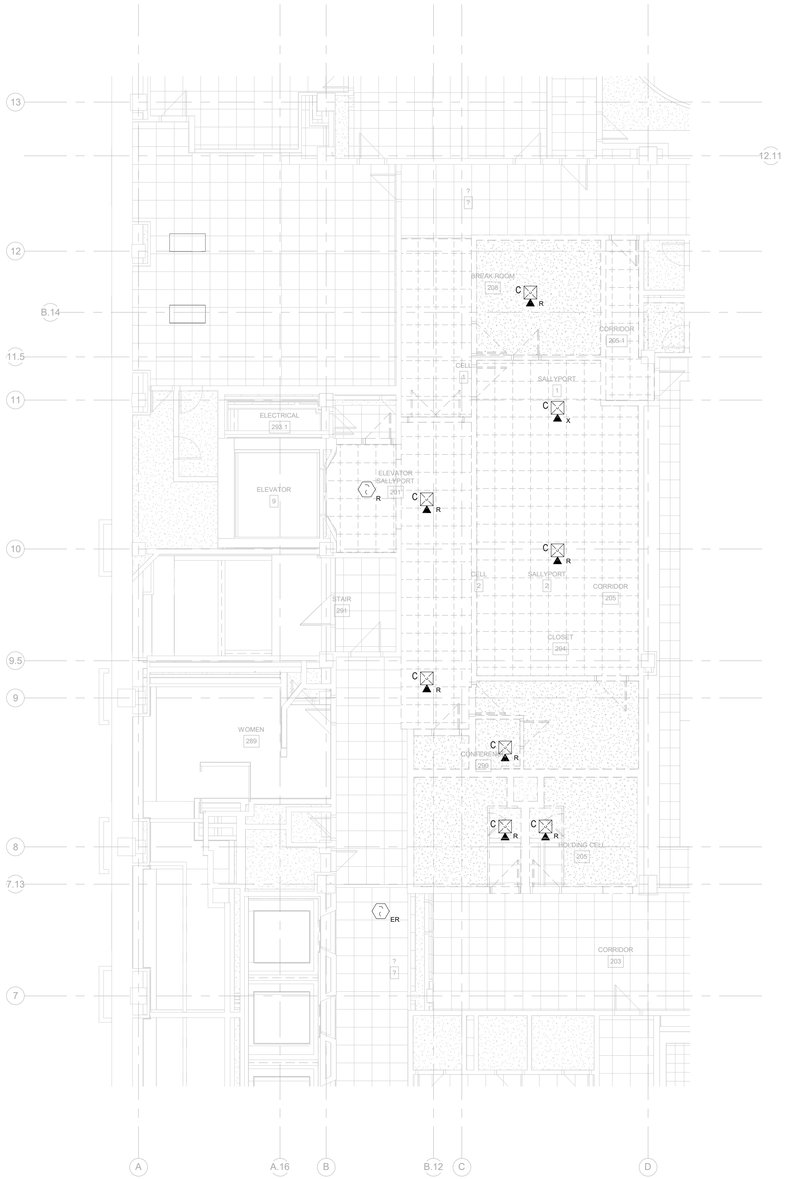

1 02 - SECOND PARTIAL FLOOR-CSP-DEMO-FA
1/8" = 1'-0"

SYMBOL LEGEND:

- ER — SMOKE DETECTOR, EXISTING TO REMAIN
- R — SMOKE DETECTOR, EXISTING TO BE RELOCATED
- X — HEAT DETECTOR, EXISTING TO BE REMOVED
- ER — HEAT DETECTOR, EXISTING TO REMAIN
- ER, C — COMBINATION SPEAKER/STROBE APPLIANCE - CEILING-MOUNTED, EXISTING TO REMAIN
- X, C — COMBINATION SPEAKER/STROBE APPLIANCE - CEILING-MOUNTED, EXISTING TO BE REMOVED
- R, C — COMBINATION SPEAKER/STROBE APPLIANCE - CEILING-MOUNTED, EXISTING TO BE RELOCATED
- ER — SPEAKER ONLY, EXISTING TO REMAIN
- X — SPEAKER ONLY, EXISTING TO BE REMOVED
- NAC ER — NOTIFICATION CIRCUIT POWER SUPPLY PANEL, EXISTING TO REMAIN

GENERAL NOTES:

1. THE WORK UNDER THIS PROJECT INCLUDES DISCONNECTION AND REMOVAL OF EXISTING FIRE ALARM SYSTEM DEVICES, CONDUIT, WIRING AND OTHER ACCESSORIES OR ATTACHMENTS AFTER ACCEPTANCE OF THE NEW SYSTEM, UNLESS NOTED OTHERWISE.

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3. CONTRACTOR SHALL PROVIDE AND INSTALL REPLACEMENT CEILING TILES OF SAME TYPE, SIZE, THICKNESS, COLOR AND FINISH TO REPLACE THOSE DAMAGED DURING THE COURSE OF CONTRACTOR'S WORK, AND THOSE WHERE HOLES ARE LEFT FROM DEVICE REMOVALS. REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFIC REQUIREMENTS.

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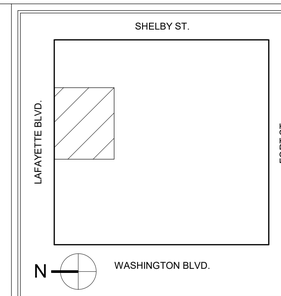

KEY PLAN

GRAPHIC SCALE: 1/8"=1'-0" 0 8' 16'

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

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BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	TME
CHECKED BY	RGL
FLOOR NO.	SECOND FLOOR
DISCIPLINE	FIRE ALARM
PLAN TYPE	RCP
SHEET NUMBER AND FILENAME	FAD102

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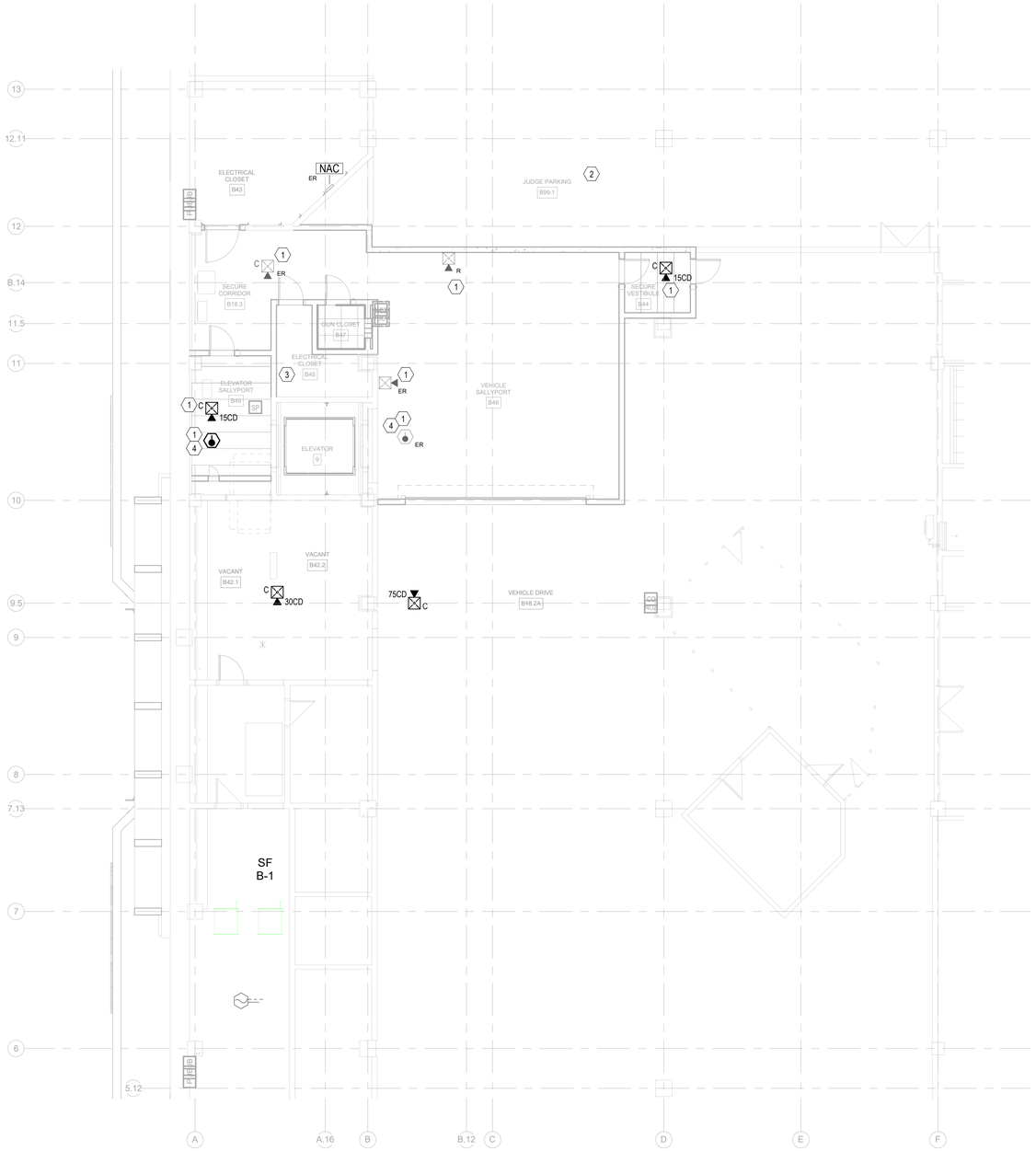

1 -01 - BASEMENT PARTIAL FLOOR-CSP-FA
1/8" = 1'-0"

KEYED NOTES:

1. PROVIDE TAMPER-PROOF SECURITY CAGE OVER DEVICE
2. EXISTING FIRE ALARM DEVICES TO REMAIN
3. RELOCATED JUNCTION BOX AND WIRING
4. VERIFY THAT EXISTING HEAT DETECTORS ARE USED FOR INITIATING ELEVATOR RECALL AT THIS FLOOR. IF EXISTING DEVICES ARE SMOKE DETECTORS, THEY SHALL BE RELOCATED TO PROVIDE THIS FUNCTION.

SYMBOL LEGEND:

- SMOKE DETECTOR, NEW
- DUCT SMOKE DETECTOR, NEW
- ER — SMOKE DETECTOR, EXISTING TO REMAIN
- R — SMOKE DETECTOR, EXISTING TO BE RELOCATED
- HEAT DETECTOR, NEW
- ER — HEAT DETECTOR, EXISTING TO REMAIN
- XXCD — STROBE APPLIANCE - CEILING-MOUNTED, NEW
- C, XXCD — COMBINATION SPEAKER/STROBE APPLIANCE - CEILING-MOUNTED, NEW
- XXCD — COMBINATION SPEAKER/STROBE APPLIANCE - WALL-MOUNTED, NEW
- C, ER — COMBINATION SPEAKER/STROBE APPLIANCE - CEILING-MOUNTED, EXISTING TO REMAIN
- C, R — COMBINATION SPEAKER/STROBE APPLIANCE - CEILING-MOUNTED, EXISTING TO BE RELOCATED
- C — SPEAKER APPLIANCE - CEILING-MOUNTED, NEW
- ER — SPEAKER APPLIANCE - WALL-MOUNTED, EXISTING TO REMAIN
- NAC, ER — NOTIFICATION CIRCUIT POWER SUPPLY PANEL, EXISTING TO REMAIN
- CM — ADDRESSABLE CONTROL MODULE, NEW

GENERAL NOTES:

1. THE SYSTEM COMPONENT DESIGN REQUIREMENTS, (INCLUDING BUT NOT LIMITED TO WIRE SIZE, NUMBER OF CONDUCTORS, CONDUIT SIZE, EQUIPMENT CABINET CAPABILITIES, JUNCTION BOX SIZES, ETC.) AND THE LOCATION OF SUCH COMPONENTS ARE NOT SHOWN ON THE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING NECESSARY SIZES AND ARRANGEMENT OF SYSTEM COMPONENTS THAT ARE REQUIRED BY THE MANUFACTURER FOR THE SPECIFIC EQUIPMENT PROPOSED FOR THIS PROJECT AND SHALL COMPLY WITH THE REFERENCED CODES AND STANDARDS. THE FIRE ALARM SYSTEM MODIFICATIONS SHALL BE COMPLETE IN ALL RESPECTS, COMPLY WITH THE MANUFACTURER'S RECOMMENDATIONS FOR EQUIPMENT PROVIDED, MEET THE REQUIREMENTS OF THE REFERENCED CODES AND STANDARDS, REGARDLESS OF THE INFORMATION SHOWN ON THE DRAWINGS.
2. UNLESS OTHERWISE NOTED, ALL CONDUIT AND WIRING SHALL BE CONCEALED ABOVE FINISHED CEILINGS AND WITHIN WALLS. ANY CONDUIT EXPOSED SHALL BE PAINTED TO MATCH THE ADJACENT SURFACE.
3. IN AREAS WITHOUT CEILINGS, CONDUIT SHALL BE INSTALLED AS UNOBTRUSIVELY AS POSSIBLE, AS CLOSE AS PRACTICAL TO THE FLOOR/CEILING SLAB ABOVE.
4. ALL CONDUIT SHALL BE MINIMUM 3/4"(19mm) TRADE SIZE.
5. FIRE ALARM SPEAKERS SHALL BE LOCATED SUCH THAT A MINIMUM 84 dBA AT 10 FEET (3M) AND A MAXIMUM OF 110 dBA AT THE MINIMUM HEARING DISTANCE ARE ACHIEVED PER SECTION 18.4 OF NFPA 72. FOR ALERT AND EVACUATION SIGNAL TONES, A MINIMUM SOUND LEVEL OF 15 dBA ABOVE AVERAGE AMBIENT AND 5 dBA ABOVE INTERMITTENT SOUNDS HAVING A DURATION OF GREATER THAN 60 SECONDS SHALL BE PROVIDED. ALL OFFICE AREAS AND PUBLIC AREAS SHALL HAVE A MINIMUM SOUND LEVEL OF 70 dBA. FOR VOICE MESSAGES, THE SYSTEM SHALL MEET THE INTELLIGIBILITY REQUIREMENTS OF SECTION 18.4.11 OF NFPA 72. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THESE REQUIREMENTS ARE ACHIEVED IN ALL AREAS OF THE BUILDING.
6. QUANTITIES OF FIRE ALARM SPEAKERS SHOWN ON DRAWINGS ARE THE MINIMUM TO BE PROVIDED. CONTRACTOR SHALL PROVIDE ADDITIONAL SPEAKERS WHERE NECESSARY TO ACHIEVE THE SPECIFIED AUDIBILITY AND INTELLIGIBILITY LEVELS.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDING ALL CONFLICTS WITH LIGHTING FIXTURES, DIFFUSERS, GRILLS, DUCTS, CONDUIT, PIPING, EQUIPMENT AND OTHER OBSTRUCTIONS ENCOUNTERED.
8. ALL CEILING MOUNTED DEVICES LOCATED IN AREAS WITH FINISHED CEILINGS SHALL BE LOCATED IN THE CENTER OF TILE.
9. THE WORK UNDER THIS PROJECT INCLUDES DISCONNECTION AND REMOVAL OF EXISTING FIRE ALARM SYSTEM DEVICES, CONDUIT, WIRING AND OTHER ACCESSORIES OR ATTACHMENTS AFTER ACCEPTANCE OF THE NEW SYSTEM, UNLESS NOTED OTHERWISE.
10. CONTRACTOR SHALL COORDINATE EXISTING FIRE ALARM SYSTEM DEACTIVATIONS WITH THE GSA. CONTRACTOR SHALL EXECUTE WORK IN SUCH A MANNER AS TO MINIMIZE THE AMOUNT OF TIME BUILDING FIRE ALARM SYSTEM IS NOT OPERATIONAL. COORDINATE WITH THE CONTRACTING OFFICER FOR DISABLEMENT OF EXISTING FIRE ALARM SYSTEM. EXISTING SYSTEMS SHALL BE REACTIVATED AT THE END OF EACH WORK DAY. FOR ANY FIRE ALARM SYSTEM IMPAIRMENTS OF MORE THAN A TOTAL OF 4 HOURS IN ANY 24 HOUR PERIOD, THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 72. IN ADDITION, THE CONTRACTOR SHALL COMPLY WITH THE GSA REGIONAL FIRE PROTECTION SYSTEM IMPAIRMENT POLICY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN APPROVED FIRE WATCH, AND COORDINATION OF FIRE PROTECTION SYSTEM IMPAIRMENTS IN THE PROJECT AREA WITH GSA PROPERTY MANAGEMENT.
11. CONTRACTOR SHALL PROVIDE AND INSTALL REPLACEMENT CEILING TILES OF SAME TYPE, SIZE, THICKNESS, COLOR AND FINISH TO REPLACE THOSE DAMAGED DURING THE COURSE OF CONTRACTOR'S WORK, AND THOSE WHERE HOLES ARE LEFT FROM DEVICE REMOVALS. REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFIC REQUIREMENTS.
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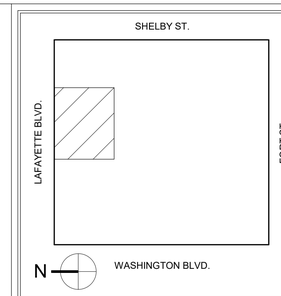

KEY PLAN

1/8"=1'-0" 0 8' 16'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

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DELIVER ORDER NO.	47PF0021F0822
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BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	TME
CHECKED BY	RGL
FLOOR NO.	BASEMENT
DISCIPLINE	FIRE ALARM
PLAN TYPE	RCP
SHEET NUMBER AND FILENAME	FA100

SHEET

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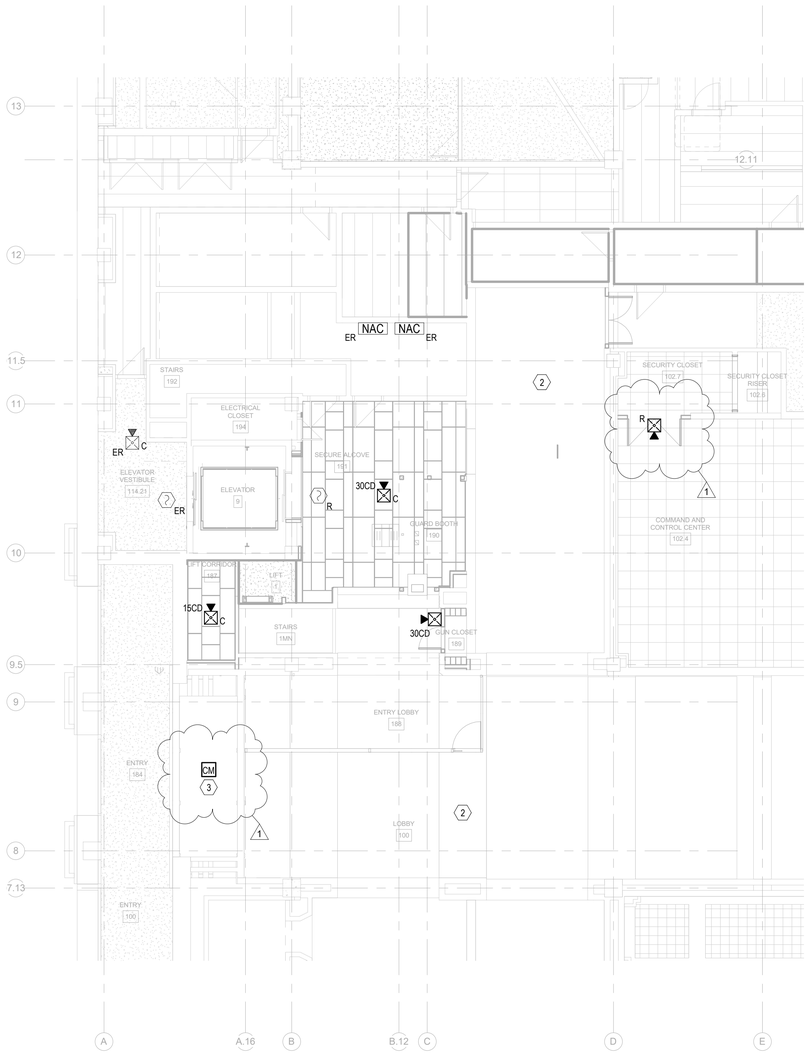

1 01 - FIRST PARTIAL FLOOR-CSP-FA
1/8" = 1'-0"

KEYED NOTES:

1. PROVIDE TAMPER-PROOF SECURITY CAGE OVER DEVICE
2. EXISTING FIRE ALARM DEVICES TO REMAIN
3. PROVIDE FIRE ALARM CONNECTION TO MAGNETIC LOCK AT SINGLE SET OF DOUBLE DOORS AT LAFAYETTE AND FORT STREET. REFER TO TSS SECURITY DRAWINGS.

SYMBOL LEGEND:

- SMOKE DETECTOR, NEW
- DUCT SMOKE DETECTOR, NEW
- SMOKE DETECTOR, EXISTING TO REMAIN
- SMOKE DETECTOR, EXISTING TO BE RELOCATED
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- CM ADDRESSABLE CONTROL MODULE, NEW

GENERAL NOTES:

1. THE SYSTEM COMPONENT DESIGN REQUIREMENTS, (INCLUDING BUT NOT LIMITED TO WIRE SIZE, NUMBER OF CONDUCTORS, CONDUIT SIZE, EQUIPMENT CABINET CAPABILITIES, JUNCTION BOX SIZES, ETC.) AND THE LOCATION OF SUCH COMPONENTS ARE NOT SHOWN ON THE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING NECESSARY SIZES AND ARRANGEMENT OF SYSTEM COMPONENTS THAT ARE REQUIRED BY THE MANUFACTURER FOR THE SPECIFIC EQUIPMENT PROPOSED FOR THIS PROJECT AND SHALL COMPLY WITH THE REFERENCED CODES AND STANDARDS. THE FIRE ALARM SYSTEM MODIFICATIONS SHALL BE COMPLETE IN ALL RESPECTS, COMPLY WITH THE MANUFACTURER'S RECOMMENDATIONS FOR EQUIPMENT PROVIDED, MEET THE REQUIREMENTS OF THE REFERENCED CODES AND STANDARDS, REGARDLESS OF THE INFORMATION SHOWN ON THE DRAWINGS.
2. UNLESS OTHERWISE NOTED, ALL CONDUIT AND WIRING SHALL BE CONCEALED ABOVE FINISHED CEILINGS AND WITHIN WALLS. ANY CONDUIT EXPOSED SHALL BE PAINTED TO MATCH THE ADJACENT SURFACE.
3. IN AREAS WITHOUT CEILINGS, CONDUIT SHALL BE INSTALLED AS UNOBTRUSIVELY AS POSSIBLE, AS CLOSE AS PRACTICAL TO THE FLOOR/CEILING SLAB ABOVE.
4. ALL CONDUIT SHALL BE MINIMUM 3/4"(19mm) TRADE SIZE.
5. FIRE ALARM SPEAKERS SHALL BE LOCATED SUCH THAT A MINIMUM 84 dBA AT 10 FEET (3M) AND A MAXIMUM OF 110 dBA AT THE MINIMUM HEARING DISTANCE ARE ACHIEVED PER SECTION 18.4 OF NFPA 72. FOR ALERT AND EVACUATION SIGNAL TONES, A MINIMUM SOUND LEVEL OF 15 dBA ABOVE AVERAGE AMBIENT AND 5 dBA ABOVE INTERMITTENT SOUNDS HAVING A DURATION OF GREATER THAN 60 SECONDS SHALL BE PROVIDED. ALL OFFICE AREAS AND PUBLIC AREAS SHALL HAVE A MINIMUM SOUND LEVEL OF 70 dBA. FOR VOICE MESSAGES, THE SYSTEM SHALL MEET THE INTELLIGIBILITY REQUIREMENTS OF SECTION 18.4.11 OF NFPA 72. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THESE REQUIREMENTS ARE ACHIEVED IN ALL AREAS OF THE BUILDING.
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11. CONTRACTOR SHALL PROVIDE AND INSTALL REPLACEMENT CEILING TILES OF SAME TYPE, SIZE, THICKNESS, COLOR AND FINISH TO REPLACE THOSE DAMAGED DURING THE COURSE OF CONTRACTOR'S WORK, AND THOSE WHERE HOLES ARE LEFT FROM DEVICE REMOVALS. REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFIC REQUIREMENTS.
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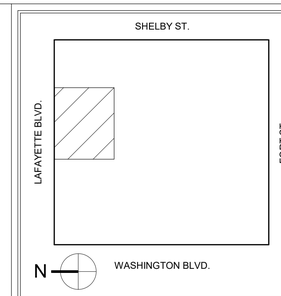

KEY PLAN

1/8"=1'-0" 0 8' 16'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION
1	02/15/2023	100% REVISION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

JENSEN HUGHES
1500 McConnor Parkway, Suite 500
Schaumburg, IL 60173
+1 847.268.2420

CONSULTANT IDENTIFICATION

STATE OF MICHIGAN
RICK GLENN
ENGINEER
No. 6201058980
LICENSED PROFESSIONAL ENGINEER

STAMP OR SEAL

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	TME
CHECKED BY	RGL
FLOOR NO.	FIRST FLOOR
DISCIPLINE	FIRE ALARM
PLAN TYPE	RCP
SHEET NUMBER AND FILENAME	FA101

SHEET

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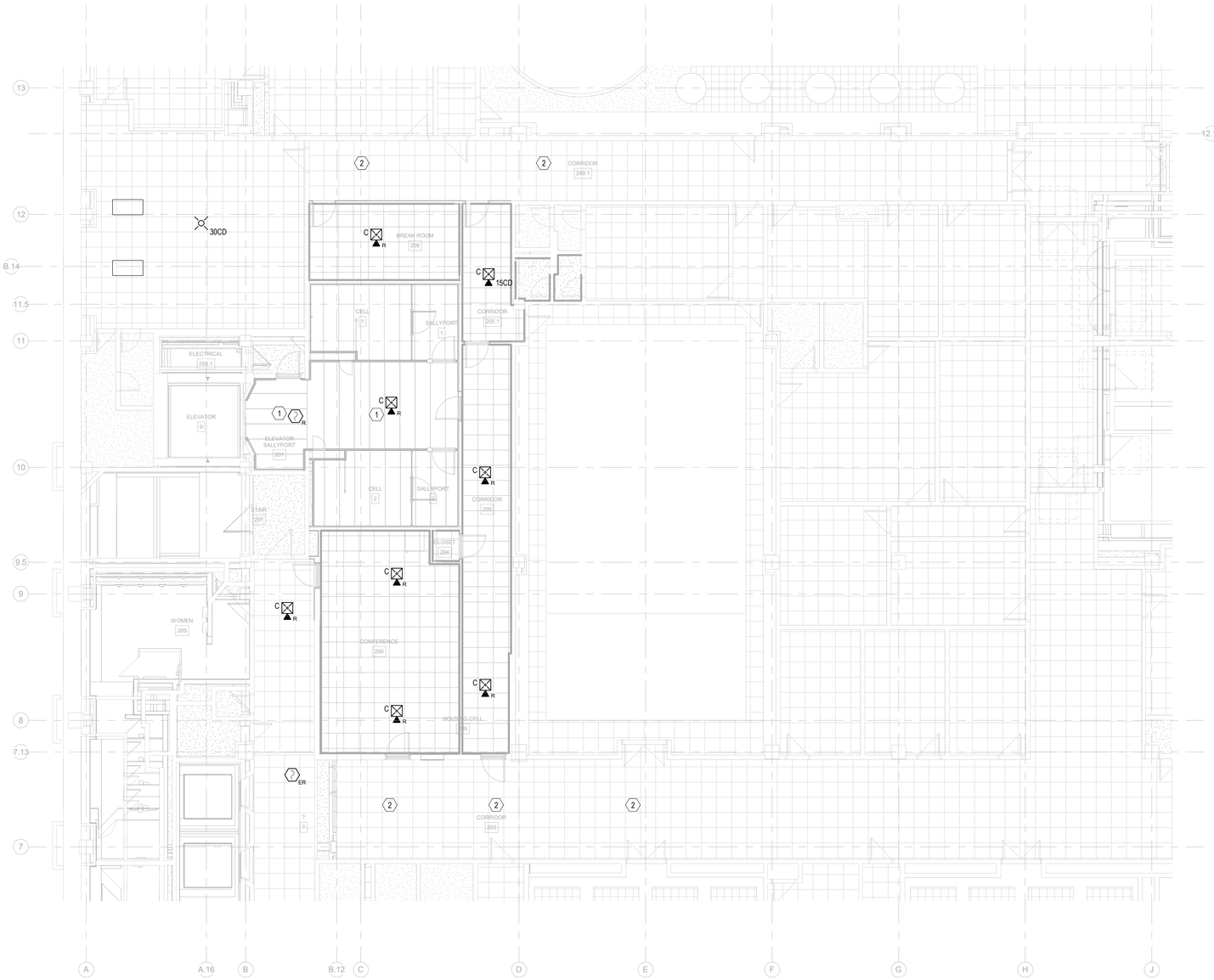

1 02 - SECOND PARTIAL FLOOR-CSP-FA
1/8" = 1'-0"

KEYED NOTES:

1. PROVIDE TAMPER-PROOF SECURITY CAGE OVER DEVICE
2. EXISTING FIRE ALARM DEVICES TO REMAIN

SYMBOL LEGEND:

- SMOKE DETECTOR, NEW
- DUCT SMOKE DETECTOR, NEW
- ER — SMOKE DETECTOR, EXISTING TO REMAIN
- R — SMOKE DETECTOR, EXISTING TO BE RELOCATED
- HEAT DETECTOR, NEW
- ER — HEAT DETECTOR, EXISTING TO REMAIN
- XXCD — STROBE APPLIANCE - CEILING-MOUNTED, NEW
- XXCD, C — COMBINATION SPEAKER/STROBE APPLIANCE - CEILING-MOUNTED, NEW
- XXCD — COMBINATION SPEAKER/STROBE APPLIANCE - WALL-MOUNTED, NEW
- ER, C — COMBINATION SPEAKER/STROBE APPLIANCE - CEILING-MOUNTED, EXISTING TO REMAIN
- R, C — COMBINATION SPEAKER/STROBE APPLIANCE - CEILING-MOUNTED, EXISTING TO BE RELOCATED
- C — SPEAKER APPLIANCE - CEILING-MOUNTED, NEW
- ER — SPEAKER APPLIANCE - WALL-MOUNTED, EXISTING TO REMAIN
- NAC, ER — NOTIFICATION CIRCUIT POWER SUPPLY PANEL, EXISTING TO REMAIN
- CM — ADDRESSABLE CONTROL MODULE, NEW

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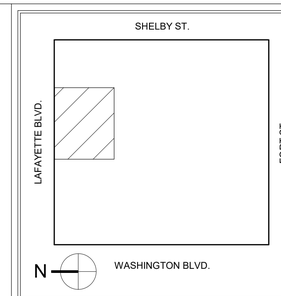

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SHEET NUMBER AND FILENAME	FA102

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MECHANICAL ABBREVIATION LIST

ABBREVIATION	DESCRIPTION
A	COMPRESSED AIR
A(__#)	COMPRESSED AIR (SPECIFIC PSIG)
AAV	AUTOMATIC AIR VENT
ACC	AIR COOLED CONDENSER
ACCU	AIR COOLED CONDENSER UNIT
AD	ACCESS DOOR
AD	AREA DRAIN
AE	AIR EXTRACTOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
AMP	AMPERE
APD	AIR PRESSURE DROP
AR	ARGON
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR-CONDITIONING ENGINEERS
ASR	AUTOMATIC SPRINKLER RISER
ATD	AIR TRANSFER DUCT
AUX	AUXILIARY
AV	ACID VENT
AVTR	ACID VENT THROUGH ROOF
AW	ACID WASTE
BAS	BUILDING AUTOMATION SYSTEM
BCU	BLOWER COIL UNIT
BDD	BACK DRAFT DAMPER
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
BVC	BEVERAGE CONDUIT
BWV	BACKWATER VALVE
C	COMMON
CAP	CAPACITY
CAV	CONSTANT AIR VOLUME
CB	CATCH BASIN
CC	COOLING COIL
CD	COLD DECK
CD	CONDENSATE DRAIN
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHW	CHILLED WATER
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG	COOLING
CNDS	CONDENSATE
CNDS (__#)	CONDENSATE (SPECIFIC PSIG)
CO	CLEAN OUT
CO2	CARBON DIOXIDE
CONT	CONTINUATION OR CONTINUED
CONTR	CONTRACTOR
CONV	CONVECTOR
COP	COEFFICIENT OF PERFORMANCE
CP	CIRCULATING PUMP
CRU	CONDENSATE RETURN UNIT
CSS	CLINICAL SERVICE SINK
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
CW	DOMESTIC COLD WATER
CWF	DOMESTIC COLD WATER - FILTERED
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
D&T	DRIP AND TRAP
DA	DISCHARGE AIR
DAT	DISCHARGE AIR TEMPERATURE
DB	DRY BULB
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE
DFU	DRAINAGE FIXTURE UNITS
DIA	DIAMETER
DMPR	DAMPER
D/N	DAY/NIGHT
DN	DOWN
DNZ	DOWNSPOUT NOZZLE
DS	DUCT SILENCER
DT	DRAIN TILE
DTC	DRAIN TILE CONNECTION
DWH	DOMESTIC WATER HEATER
DWG	DRAWING
(E)	EXISTING
E	EXHAUST GRILLE OR REGISTER
EA	EACH
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	EXPANSION COMPENSATOR
ECUH	ELECTRIC CABINET UNIT HEATER
EDB	ENTERING DRY BULB
EER	ENERGY EFFICIENCY RATIO
EES	EMERGENCY EYE WASH / SHOWER
EEW	EMERGENCY EYE WASH
EF	EXHAUST FAN
EFF	EFFICIENCY
EHC	ELECTRIC HEATING COIL
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
EMS	ENERGY MANAGEMENT SYSTEM
ERL	ENERGY RECOVERY LOOP
ERLR	ENERGY RECOVERY LOOP RETURN
ERLS	ENERGY RECOVERY LOOP SUPPLY
ERU	ENERGY RECOVERY UNIT
ESH	EMERGENCY SHOWER
ESP	EXTERNAL STATIC PRESSURE
EUH	ELECTRIC UNIT HEATER
EWB	ENTERING WET BULB
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
F	FIRE PROTECTION
°F	DEGREES FAHRENHEIT
F&B	FACE AND BYPASS
F&T	FLOAT AND THERMOSTATIC
FA	FACE AREA
FCU	FAN COIL UNIT

ABBREVIATION	DESCRIPTION
FD	FLOOR DRAIN
FFD	FUNNEL FLOOR DRAIN
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
FLA	FULL LOAD AMPS
FLR	FLOOR
FM	FLOW METER
FMS	FLOW MEASURING STATION
FPM	FEET PER MINUTE
FP	FIRE PUMP
FPTU	FAN POWERED (AIR) TERMINAL UNIT
FS	FLOOR SINK
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR
FT	FEET
FTR	FINNED TUBE RADIATION
FV	FACE VELOCITY
G	NATURAL GAS
GA	GAUGE
GAL	GALLON
GRH	GRAVITY RELIEF HOOD
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GSAN	GREASE SANITARY WASTE
H	HYDROGEN
HB	HOSE BIBB
HC	HEATING COIL
HD	HOT DECK
HEPA	HIGH EFFICIENCY PARTICULATE ARRESTANCE
HL	HIGH LIMIT
HO	HUB OUTLET
HOA	HAND/OFF/AUTO
HP	HEAT PUMP
HP	HORSEPOWER
HPCW	HIGH PRESSURE DOMESTIC COLD WATER
HPHW	HIGH PRESSURE DOMESTIC HOT WATER
HPHWR	HIGH PRESSURE DOMESTIC HOT WATER RETURN
HPL	HEAT PUMP LOOP
HPLR	HEAT PUMP LOOP RETURN
HPLS	HEAT PUMP LOOP SUPPLY
HR	HOUR
HTG	HEATING
HV	HEATING VENTILATING
HVAC	HEATING, VENTILATING, AIR CONDITIONING
HWH	HOT WATER HEATING
HWHR	HOT WATER HEATING RETURN
HWHS	HOT WATER HEATING SUPPLY
HW	DOMESTIC HOT WATER
HW(__)	DOMESTIC HOT WATER (SPECIFIC TEMP °F)
HWR	DOMESTIC HOT WATER RETURN
HX	HEAT EXCHANGER
HZ	HERTZ
IAQ	INDOOR AIR QUALITY
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IH	INTAKE HOOD
IN	INCHES
IR	INFRARED HEATER
IW	INDIRECT WASTE
JC	JANITOR'S CLOSET
JP	JOCKEY PUMP
KA	THOUSAND AMP
KW	KILOWATT
KWH	KILOWATT-HOUR
LAT	LEAVING AIR TEMPERATURE
LAB	LABORATORY
LAV	LAVATORY
LBS	POUNDS
LDB	LEAVING DRY BULB
LL	LOW LIMIT
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
LRA	LOCKED ROTOR AMPS
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
MA	MIXED AIR
MAT	MIXED AIR TEMPERATURE
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
MCA	MEDICAL COMPRESSED AIR
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MIL	1/1000th INCH
MIN	MINIMUM
MISC	MISCELLANEOUS
MMBH	MILLION BRITISH THERMAL UNITS PER HOUR
MOP	MAXIMUM OVERCURRENT PROTECTION
M/S	MOTOR STARTER
MTD	MOUNTED
MTR	MOTOR
MV	MANUAL AIR VENT
MVAC	MEDICAL VACUUM
N	NITROGEN
N2O	NITROUS OXIDE
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NCTC	NORMALLY CLOSED TIMED CLOSED
NCTO	NORMALLY CLOSED TIMED OPEN
NFPA	NATIONAL FIRE PROTECTION AGENCY
NOTC	NORMALLY OPEN TIMED CLOSED
NOTO	NORMALLY OPEN TIMED OPEN
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NOM	NOMINAL
NPCW	NON POTABLE COLD WATER

ABBREVIATION	DESCRIPTION
OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE
OB	OUTLET BOX
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER/CENTER TO CENTER
OD	OUTSIDE DIAMETER
OED	OPEN ENDED DUCT
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OI	OIL INTERCEPTOR
OL	OVERLOAD
ORC	OVERFLOW RAIN CONDUCTOR
ORD	OVERFLOW ROOF DRAIN
OS&Y	OUTSIDE SCREW AND YOKE
OV	OUTLET VELOCITY
OWS	OPERATOR WORKSTATION
PACU	PACKAGED AIR CONDITIONING UNIT
PBD	PARALLEL BLADE DAMPER
PC	PUMPED CONDENSATE
PCW	PROCESS COOLING WATER
PCWR	PROCESS COOLING WATER RETURN
PCWS	PROCESS COOLING WATER SUPPLY
PD	PRESSURE DROP (FEET OF WATER)
PH	PERIMETER HEAT
PHR	PERIMETER HEAT RETURN
PHS	PERIMETER HEAT SUPPLY
PNL	PANEL
PPM	PARTS PER MILLION
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSAN	PUMPED SANITARY
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH - ABSOLUTE
PSIG	POUNDS PER SQUARE INCH - GAUGE
PST	PUMPED STORM
PW	PURIFIED WATER
PWR	PURIFIED WATER RETURN
PWS	PURIFIED WATER SUPPLY
(R)	RELOCATED
R	RETURN GRILLE OR REGISTER
RA	RETURN AIR
RAT	RETURN AIR TEMPERATURE
RC	RAIN CONDUCTOR
RCP	RADIANT CEILING PANEL
RD	ROOF DRAIN
REQD	REQUIRED
REF	ROOF EXHAUST FAN
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RL	REFRIGERANT LIQUID
RLFA	RELIEF AIR
RPM	REVOLUTIONS PER MINUTE
RPDA	REDUCED PRESSURE BACKFLOW DETECTION ASSY
RPZA	REDUCED PRESSURE BACKFLOW ZONE ASSY
RS	REFRIGERANT SUCTION
RTU	ROOFTOP UNIT
S	SUPPLY AIR DIFFUSER OR GRILLE
SA	SOUND ATTENUATOR
SA	SUPPLY AIR
SAN	SANITARY WASTE
SAT	SUPPLY AIR TEMPERATURE
SCCR	SHORT CIRCUIT CURRENT RATING
SECT	SECTION
SF	SUPPLY FAN
SH	SHOWER
SK	SINK
SMR	SNOW MELT RETURN
SMS	SNOW MELT SUPPLY
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SQFT	SQUARE FOOT/SQUARE FEET
S/S	START/STOP
SS	SERVICE SINK
ST	STORM
STD	STANDARD
STK	STACK
STM	STEAM
S/W	SUMMER/WINTER
SW	SWITCH
T	TRANSFER GRILLE
TC	TEMPERATURE CONTROL
TC	TEMPERING COIL
TCP	TEMPERATURE CONTROL PANEL
TD	TRENCH DRAIN
TEMP	TEMPERATURE
TEMP	TEMPORARY
TH	TERMINAL HEATING
THA	TOTAL HEAT ABSORBED
THR	TERMINAL HEATING RETURN
THR	TOTAL HEAT REJECTED
THS	TERMINAL HEATING SUPPLY
TMR	TIMER SWITCH
TPD	TEPID WATER
TSP	TOTAL STATIC PRESSURE
TU	(AIR) TERMINAL UNIT
TV	TURNING VANES
TW	TEMPERED WATER
TYP	TYPICAL
UH	UNIT HEATER
UL	UNDERWRITER'S LABORATORY
UON	UNLESS OTHERWISE NOTED
UR	URINAL
UV	UNIT VENTILATOR
V	VALVE
V	VENT
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VB	VACUUM BREAKER
VD	VOLUME DAMPER (MANUALLY ADJUSTABLE)
VOL	VOLUME
VFC	VARIABLE FREQUENCY CONTROLLER
VTR	VENT THROUGH ROOF
VTU	VENTURI TERMINAL UNIT
VUV	VERTICAL UNIT VENTILATOR
W	WASTE
W&V	WASTE AND VENT
WB	WET BULB
WC	WATER CLOSET
WC	WATER COLUMN
WG	WATER GAUGE
WH	WALL HYDRANT
WMSD	WASHING MACHINE SUPPLY AND DRAIN BOX
WPD	WATER PRESSURE DROP
WT	WEIGHT
XFMR	TRANSFORMER
ZVB	ZONE VALVE BOX

TEMPERATURE CONTROL - PARTIAL SYMBOLS LIST

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
CO2	CARBON DIOXIDE SENSOR	OS	OCCUPANCY SENSOR
CO	CARBON MONOXIDE SENSOR	PT	PRESSURE TRANSMITTER
DPT	DIFFERENTIAL PRESSURE TRANSMITTER	SP	STATIC PRESSURE SENSOR OR PROBE
FM	FLOW METER		VALVE - 2 WAY CONTROL VALVE
	GUARD FOR STAT OR SENSOR		VALVE - 3 WAY CONTROL VALVE
H	HUMIDISTAT OR HUMIDITY SENSOR (AS DEFINED ON TC DRAWINGS)	T	THERMOSTAT OR TEMPERATURE SENSOR (AS DEFINED ON TC DRAWINGS)

NOTE: LIST OF ADDITIONAL SYMBOLS & ABBREVIATIONS ASSOCIATED WITH TEMPERATURE CONTROLS ARE IDENTIFIED ON TC DRAWINGS.

MECHANICAL SYMBOL LIST

PIPING SYMBOLS

SYMBOL	DESCRIPTION
AV	AIR VENT - AUTOMATIC
MV	AIR VENT - MANUAL
BFP	BACKFLOW PREVENTER
	CATCH BASIN
	CIRCULATING PUMP
CO	CLEAN OUT - IN FLOOR
CO	CLEAN OUT - FLANGE
	DIRECTION OF FLOW
	DIRECTION OF PITCH - DOWN
	FINNED TUBE RADIATION
	FIRE PROTECTION - SIAMESE CONNECTION - FREE STANDING
	FIRE PROTECTION - SIAMESE CONNECTION - WALL MOUNTED
	FIRE PROTECTION - SPRINKLER HEAD, CONCEALED
	FIRE PROTECTION - SPRINKLER HEAD, PENDANT
	FIRE PROTECTION - SPRINKLER HEAD, UPRIGHT
	FIRE PROTECTION - SPRINKLER HEAD, SIDEWALL
	FLOOR DRAIN
	FLOOR DRAIN - ELEVATION
	FLOOR DRAIN - FUNNEL
	FLOOR DRAIN - FUNNEL, ELEVATION
	FLOW MEASURING DEVICE (FOR TEST AND BALANCING)
FS	FLOW SWITCH
FM	FLOW METER
HB	HOSE BIBB
MH	MANHOLE
	OPEN SITE DRAIN
	PIPE - ANCHOR
	PIPE - CAP OR PLUG
	PIPE - ELBOW DOWN
	PIPE - ELBOW UP
	PIPE - EXPANSION JOINT OR COMPENSATOR
	PIPE - FLANGE
	PIPE - HOSE AND BRAID FLEXIBLE CONNECTION
	PIPE - RUBBER FLEXIBLE CONNECTION
	PIPE - GUIDE
	PIPE - TEE DOWN
	PIPE - TEE UP
	PIPE - UNION
P/T	PRESSURE AND TEMPERATURE TEST PLUG
	PRESSURE GAUGE AND COCK
	REDUCER - CONCENTRIC
	REDUCER - ECCENTRIC
	ROOF/OVERFLOW DRAIN
	STEAM TRAP - FLOAT AND THERMOSTATIC
	STRAINER
	STRAINER WITH VALVE AND BLOW-OFF
	THERMOMETER
	TRAP
	VALVE - ANGLE
	VALVE - BALL
0.5	VALVE - BALANCE (i.e. BALANCE VALVE TO 0.5 GPM)
0.5	VALVE - COMBINATION BALANCE & FLOW MEASURING (i.e. BALANCE VALVE TO 0.5 GPM)
	VALVE - BUTTERFLY
	VALVE - CHECK
	VALVE - SPRING CHECK
	VALVE - GAS (MANUAL)
	VALVE - GLOBE
	VALVE - ISOLATION
	VALVE - NEEDLE
	VALVE - OS&Y
	VALVE - PLUG
	VALVE - PRESSURE REGULATING
	VALVE - PRESSURE REDUCING
	VALVE - PRESSURE RELIEF
	VALVE - PRESSURE & TEMPERATURE RELIEF
VTR	VENT THROUGH ROOF
WH	WALL HYDRANT

DUCTWORK SYMBOLS

SYMBOL	DESCRIPTION
TU-101	AIR TERMINAL UNIT
TU-101	AIR TERMINAL UNIT WITH HEATING COIL
VTU-101	VENTURI AIR TERMINAL UNIT
VTU-101	VENTURI AIR TERMINAL UNIT WITH HEATING COIL
	DAMPER - HORIZONTAL FIRE (EXISTING, NEW)
	DAMPER - HORIZONTAL FIRE / SMOKE (EXISTING, NEW)
	DAMPER - SMOKE (EXISTING, NEW)
	DAMPER - VERTICAL FIRE (EXISTING, NEW)
	DAMPER - VERTICAL FIRE / SMOKE (EXISTING, NEW)
BDD	DAMPER - BACK DRAFT
M	DAMPER - MOTORIZED
	DAMPER - VOLUME (MANUALLY ADJUSTABLE)
	DIFFUSER - BLANK OFF
	DIFFUSER - LINEAR SLOT
	DIFFUSER - SQUARE OR RECTANGULAR
	DUCT CROSS SECTION - SUPPLY
	DUCT CROSS SECTION - RETURN
	DUCT CROSS SECTION - EXHAUST
	DUCT - FLEXIBLE CONNECTION
	DUCT - FLEXIBLE DUCT
	DUCT TAKE-OFF - ROUND CONICAL
	DUCT TAKE-OFF - RECTANGULAR WITH SHOE TAP
	ELBOW - RECTANGULAR WITH TURNING VANES
	ELBOW - RECTANGULAR/ ROUND SMOOTH RADIUS
	ELBOW DOWN - RECTANGULAR
	ELBOW DOWN - ROUND
	ELBOW UP - RECTANGULAR
	ELBOW UP - ROUND
	FAN - AXIAL
	FAN - CENTRIFUGAL (ELEVATION)
	HEATING COIL
	INCLINED DROP IN DIRECTION OF AIRFLOW
	INCLINED RISE IN DIRECTION OF AIRFLOW
	INTAKE OR RELIEF HOOD
	REGISTER - RETURN OR EXHAUST
	REGISTER - RETURN WITH BOOT
	REGISTER - TRANSFER GRILLE
	ROOF EXHAUST FAN
	TRANSITION - CONCENTRIC
	TRANSITION - ECCENTRIC
	UNIT HEATER - HORIZONTAL THROW
	UNIT HEATER - VERTICAL THROW

DOUBLE LINE DUCTWORK SYMBOLS

SYMBOL	DESCRIPTION
	DUCT TAKE-OFF - RECTANGULAR WITH SHOE TAP
	DUCT TAKE-OFF - ROUND CONICAL
	ELBOW - RECTANGULAR WITH TURNING VANES
	ELBOW DOWN - RECTANGULAR
	ELBOW DOWN - ROUND
	ELBOW UP - RECTANGULAR
	ELBOW UP - ROUND
	HEATING COIL
D	INCLINED DROP IN DIRECTION OF AIRFLOW
R	INCLINED RISE IN DIRECTION OF AIRFLOW
	TRANSITION - CONCENTRIC
	TRANSITION -ECCENTRIC

NOTE: SOME SYMBOLS AND ABBREVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT.

MECHANICAL DRAWING INDEX

SHEET NO.	SHEET TITLE
MP001	MECHANICAL AND PLUMBING STANDARDS AND DRAWING INDEX
PD200	BASEMENT FLOOR - VEHICLE SALLYPORT PLUMBING DEMOLITION PLAN
PD201	FIRST FLOOR - NORTH LAFAYETTE PLUMBING DEMOLITION PLAN
PD202	SECOND FLOOR - OPTION 1 PLUMBING DEMOLITION PLAN
PD204	TWELFTH FLOOR ELEVATOR 9 - PLUMBING DEMOLITION PLAN
P200	BASEMENT FLOOR - VEHICLE SALLYPORT PLUMBING PLAN
P200A	BASEMENT FLOOR - SOUTH FORT STREET PLUMBING PLAN
P201	FIRST FLOOR - PLUMBING PLAN
P202	SECOND FLOOR - OPTION 1 PLUMBING PLAN
P203	THIRD FLOOR - PLUMBING PLAN
P204	TWELFTH FLOOR ELEVATOR 9 - PLUMBING PLAN
MD100A	BASEMENT FLOOR - MECHANICAL DEMOLITION PLAN
MD100B	BASEMENT FLOOR - MECHANICAL DEMOLITION PLAN
MD101A	FIRST FLOOR - NORTH LAFAYETTE MECHANICAL DEMOLITION PLAN
MD101B	FIRST FLOOR - SOUTH FORT STREET MECHANICAL DEMOLITION PLAN
MD102	SECOND FLOOR - OPTION 1 MECHANICAL DEMOLITION PLAN
MD104	TWELFTH FLOOR ELEVATOR 9 - MECHANICAL DEMOLITION PLAN
M100A	BASEMENT FLOOR - MECHANICAL PLAN
M100B	BASEMENT FLOOR - MECHANICAL PLAN
M100C	BASEMENT FLOOR - MECHANICAL PLAN
M101A	FIRST FLOOR - NORTH LAFAYETTE MECHANICAL PLAN
M101B	FIRST FLOOR - SOUTH FORT STREET MECHANICAL PLAN
M101C	FIRST FLOOR - EXTERIOR RAMP MECHANICAL PLAN
M102	SECOND FLOOR - OPTION 1 MECHANICAL PLAN
M103	THIRD FLOOR - MECHANICAL PLANS
M104	TWELFTH FLOOR ELEVATOR 9 - MECHANICAL NEW WORK PLAN
M601	MECHANICAL DETAILS
M602	MECHANICAL DETAILS
M603	MECHANICAL DETAILS
M701	MECHANICAL SCHEDULES
M702	MECHANICAL SCHEDULES
M703	MECHANICAL SCHEDULES
M704	MECHANICAL SCHEDULES
M705	MECHANICAL SCHEDULES
M801	TEMPERATURE CONTROL STANDARDS AND GENERAL NOTES
M802	TEMPERATURE CONTROLS
M803	TEMPERATURE CONTROLS
M804	TEMPERATURE CONTROLS

STANDARD METHODS OF NOTATION

S-1 10ø 350-4	SUPPLY DIFFUSER WITH SCHEDULE TAG "1", 10" DIAMETER NECK SIZE 350 CFM TYPICAL FOR 4
R-1 22x22 640-2	RETURN REGISTER WITH SCHEDULE TAG "1", 22"x 22" NECK SIZE 640 CFM TYPICAL FOR 2 EXHAUST REGISTER E DESIGNATION SIMILAR.
TU-101	AIR TERMINAL UNIT WITH HEATING COIL NO. 101 WITH SERVICE CLEARANCE SHOWN
(2)WC-1	PLUMBING FIXTURE UNIT IDENTIFICATION TAG WATER CLOSET TYPE "1" TYPICAL FOR 2
8	PIPE DIAMETER NOTATION ALL SIZES IN INCHES
8ø 22x10 18x14ø	DUCT SIZE NOTATION ALL SIZES IN INCHES
	OVAL DUCT
	RECTANGULAR DUCT
1	CONSTRUCTION KEY NOTE (NUMBER) OR DEMOLITION KEY NOTE (LETTER)
EF 1	EQUIPMENT DESIGNATION, (i.e. EXHAUST FAN NUMBER 1)
	NEW SYSTEM COMPONENT
	EXISTING SYSTEM COMPONENT TO REMAIN
	POINT OF NEW CONNECTION SYMBOL
1 M5.1	SECTION OR PLAN NUMBER
	SHEET WHERE SECTION IS DRAWN
	AREA OF ENLARGEMENT
1 M5.1	PLAN NUMBER
	SHEET WHERE ENLARGED PLAN IS DRAWN
1 M5.1	SECTION OR PLAN NUMBER SECTION OR ENLARGED PLAN SCALE: 1/8" = 1' - 0"
	SHEET WHERE SECTION IS CUT OR ENLARGED PLAN IS REFERENCED
SHEET M1.0 SHEET M1.1	MATCHLINE
	HEAVY LINE WEIGHT INDICATES NEW WORK
	LIGHT LINE WEIGHT INDICATES EXISTING EQUIPMENT OR REFERENCED INFORMATION
	GRAY LINE INDICATES BACKGROUND INFORMATION
	DASHED LINES INDICATE PIPING ROUTED BELOW SLAB OR GRADE
	HATCH MARKS INDICATE EQUIPMENT OR MATERIALS TO BE DISCONNECTED AND REMOVED.

KEY PLAN

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

DESIGNER IDENTIFICATION

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816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

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5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

STAMP OR SEAL

STATE OF MICHIGAN
DAVID ANTHONY CONRAD
ENGINEER
No. 6201055589
LICENSED PROFESSIONAL ENGINEER

OWNER IDENTIFICATION

GSA
General Services Administration
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Customer Projects Service Center
John C. Kluczynski Federal Building
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Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
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BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	RLT
CHECKED BY	DC
FLOOR NO.	N/A
DISCIPLINE	MECHANICAL
PLAN TYPE	INDEX
SHEET NUMBER AND FILENAME	MP001

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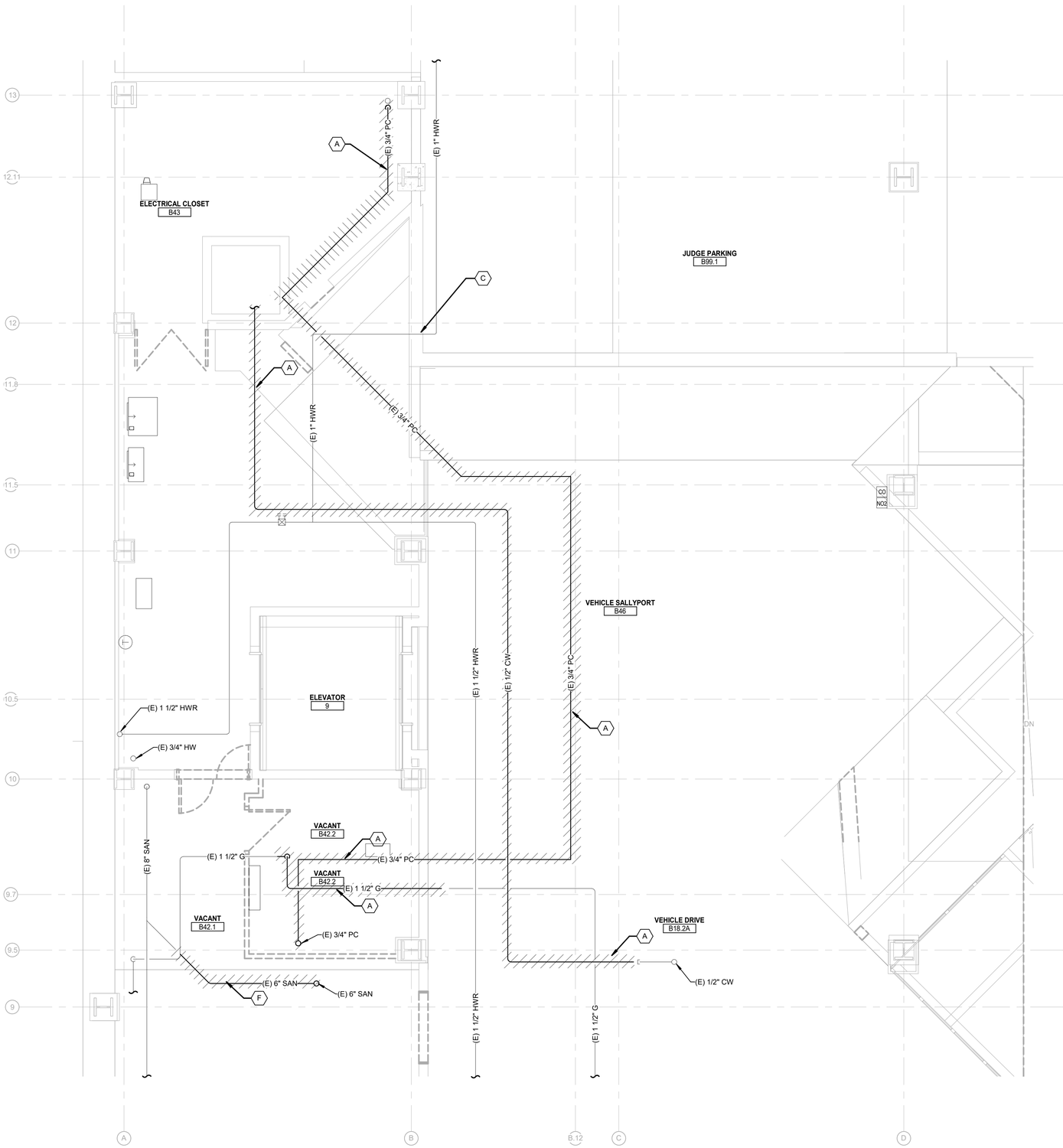


BASEMENT FLOOR - VEHICLE SALLYPORT PLUMBING DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

GENERAL DEMOLITION NOTES:

1 ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE.

2 THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. ACTUAL ROUTING AND SIZES OF EXISTING PIPING AND DUCTWORK MIGHT DIFFER TO A LIMITED EXTENT FROM WHAT IS SHOWN. MAJOR DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL EXISTING CONDITIONS SHALL BE REPORTED TO THE ENGINEER.

3 THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.

4 ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE, INCLUDING ALL RELATED ITEMS SUCH AS HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.

5 DEMOLISHED DOMESTIC COLD WATER, DOMESTIC HOT WATER AND SANITARY PIPES SHALL BE CAPPED WITHIN 2 FEET OF THE MAINS.

DEMOLITION KEYED NOTES:

A REMOVE PIPING COMPLETE INCLUDING HANGERS AND SUPPORTS.

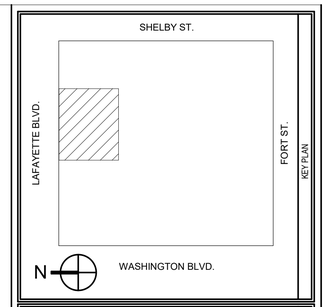
B REMOVE FIXTURES AND PIPING COMPLETE INCLUDING HANGERS AND SUPPORTS. CAP AT MAINS AS REQUIRED.

C PORTION OF WALL SCHEDULED TO BE REMOVED, REFER TO ARCHITECTURAL DRAWINGS. PROTECT EXISTING PIPING TO REMAIN.

D SANITARY TO BE CAPPED BELOW FLOOR AND PATCH FLOOR TO MATCH EXISTING GRADE. NO WORK TO BE DONE WITHIN CEILING BELOW.

E DISCONNECT CNDS PIPING FROM ACU UNIT AND PREPARE PIPING FOR NEW CONNECTION.

F REMOVE PIPING COMPLETE INCLUDING HANGERS AND SUPPORTS. PREPARE PIPING TO REMAIN FOR NEW CONNECTIONS. REFER TO NEW WORK PLANS.



KEY PLAN

1/4"=1'-0" 0 4" 8"

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

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248.542.7866/www.ghfaa.com

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STATE OF MICHIGAN
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ENGINEER
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LICENSED PROFESSIONAL ENGINEER

STAMP OR SEAL

GSA
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BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	BPC
CHECKED BY	WSE
FLOOR NO.	BASEMENT
DISCIPLINE	MECHANICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	PD200

SHEET

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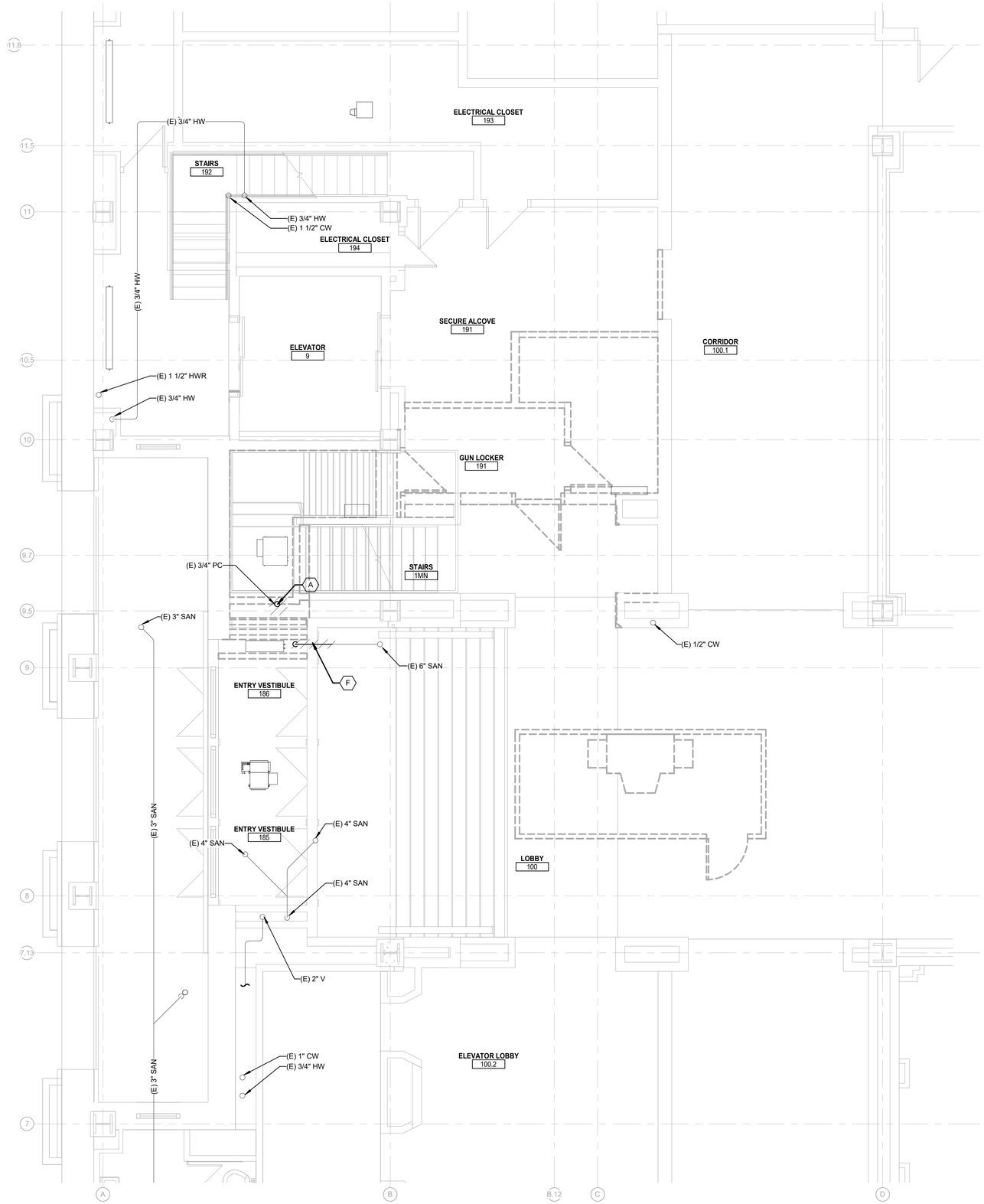

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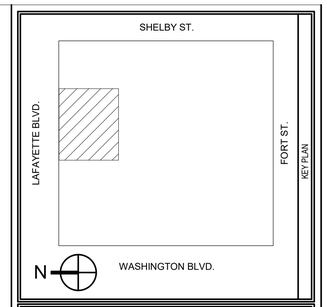
FIRST FLOOR - NORTH LAFAYETTE PLUMBING DEMOLITION PLAN

SCALE: 1/4" = 1'-0"



GRAPHIC SCALE

1/4"=1'-0" 0 4" 8"

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MARK	DATE	DESCRIPTION

CONTRACT

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GSA PROJECT NO.	VMI00051
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SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	BPC
CHECKED BY	WSE
FLOOR NO.	FIRST FLOOR
DISCIPLINE	MECHANICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	PD201

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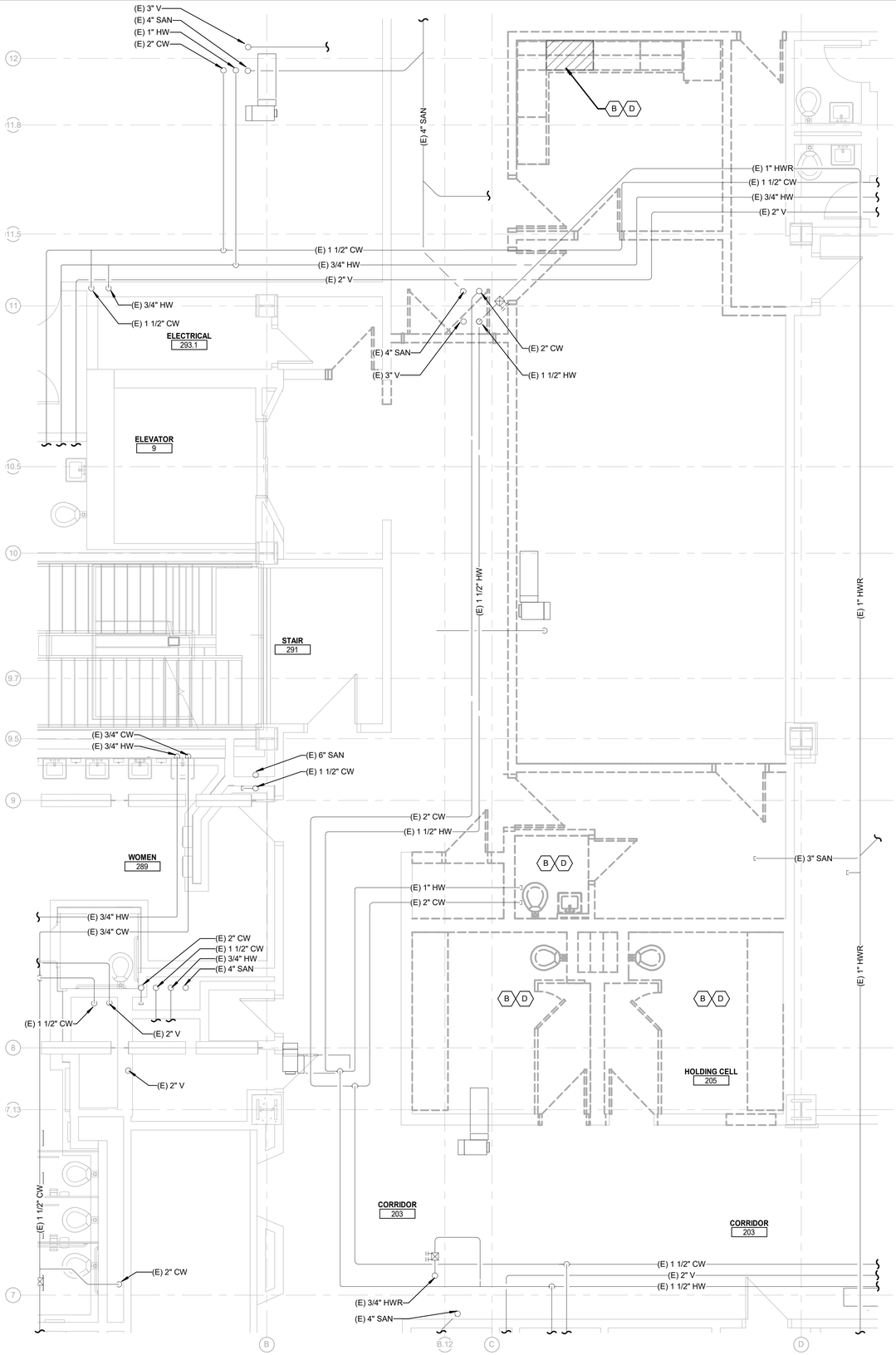

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SECOND FLOOR - OPTION 1 PLUMBING DEMOLITION PLAN

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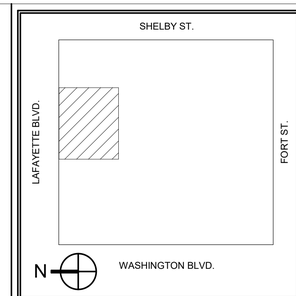

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GRAPHIC SCALE 1/4"=1'-0" 0 4' 8'

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230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	BPC
CHECKED BY	WSE
FLOOR NO.	SECOND FLOOR
DISCIPLINE	MECHANICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	PD202

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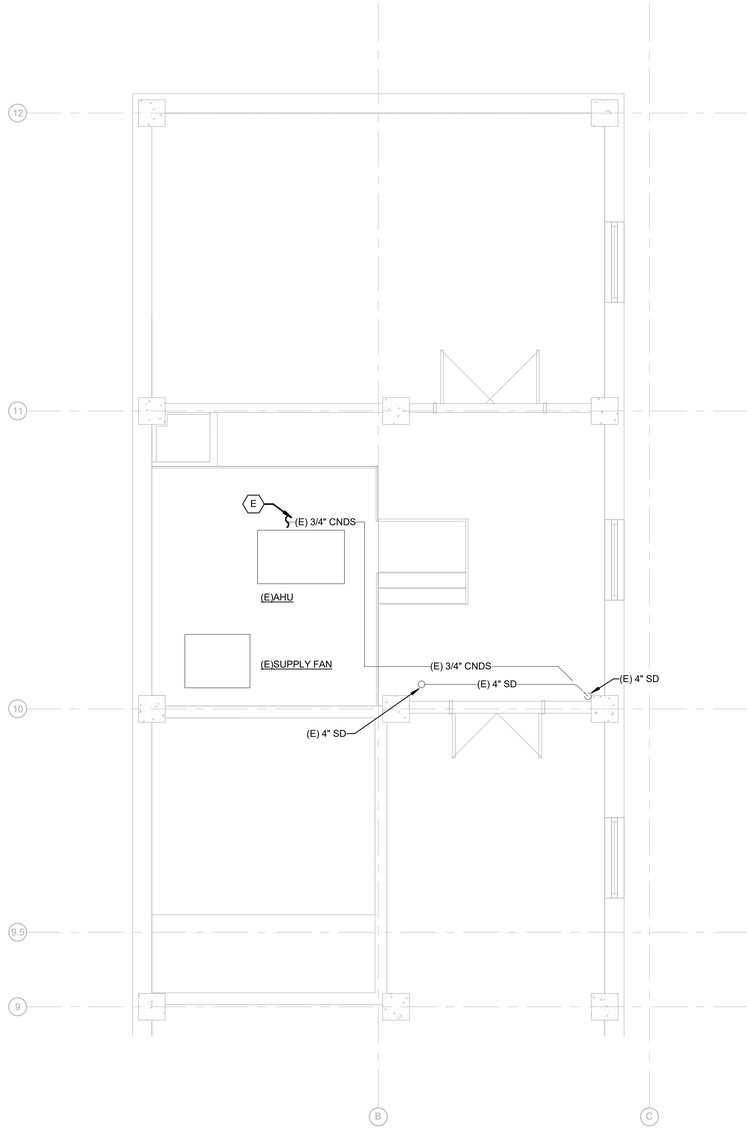


TWELFTH FLOOR ELEVATOR 9 - PLUMBING DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

GENERAL DEMOLITION NOTES:

1 ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE.

2 THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. ACTUAL ROUTING AND SIZES OF EXISTING PIPING AND DUCTWORK MIGHT DIFFER TO A LIMITED EXTENT FROM WHAT IS SHOWN. MAJOR DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL EXISTING CONDITIONS SHALL BE REPORTED TO THE ENGINEER.

3 THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.

4 ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE, INCLUDING ALL RELATED ITEMS SUCH AS HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.

5 DEMOLISHED DOMESTIC COLD WATER, DOMESTIC HOT WATER AND SANITARY PIPES SHALL BE CAPPED WITHIN 2 FEET OF THE MAINS.

DEMOLITION KEYED NOTES:

A REMOVE PIPING COMPLETE INCLUDING HANGERS AND SUPPORTS.

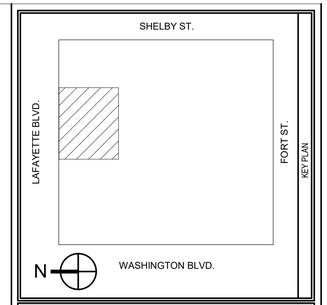
B REMOVE FIXTURES AND PIPING COMPLETE INCLUDING HANGERS AND SUPPORTS. CAP AT MAINS AS REQUIRED.

C PORTION OF WALL SCHEDULED TO BE REMOVED, REFER TO ARCHITECTURAL DRAWINGS. PROTECT EXISTING PIPING TO REMAIN.

D SANITARY TO BE CAPPED BELOW FLOOR AND PATCH FLOOR TO MATCH EXISTING GRADE. NO WORK TO BE DONE WITHIN CEILING BELOW.

E DISCONNECT CNDS PIPING FROM ACU UNIT AND PREPARE PIPING FOR NEW CONNECTION.

F REMOVE PIPING COMPLETE INCLUDING HANGERS AND SUPPORTS. PREPARE PIPING TO REMAIN FOR NEW CONNECTIONS. REFER TO NEW WORK PLANS.



KEY PLAN

GRAPHIC SCALE

1/4"=1'-0" 0 4" 8"

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
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Troy, Michigan 48098-3276
Tel: 248-879-5666
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www.PeterBassoAssociates.com
PBA Project No: 2021-0206

STAMP OR SEAL

STATE OF MICHIGAN
DAVID ANTHONY CONRAD
ENGINEER
No. 62010555580
LICENSED PROFESSIONAL ENGINEER

OWNER IDENTIFICATION

GSA
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SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	BPC
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FLOOR NO.	TWELFTH
DISCIPLINE	MECHANICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	PD204

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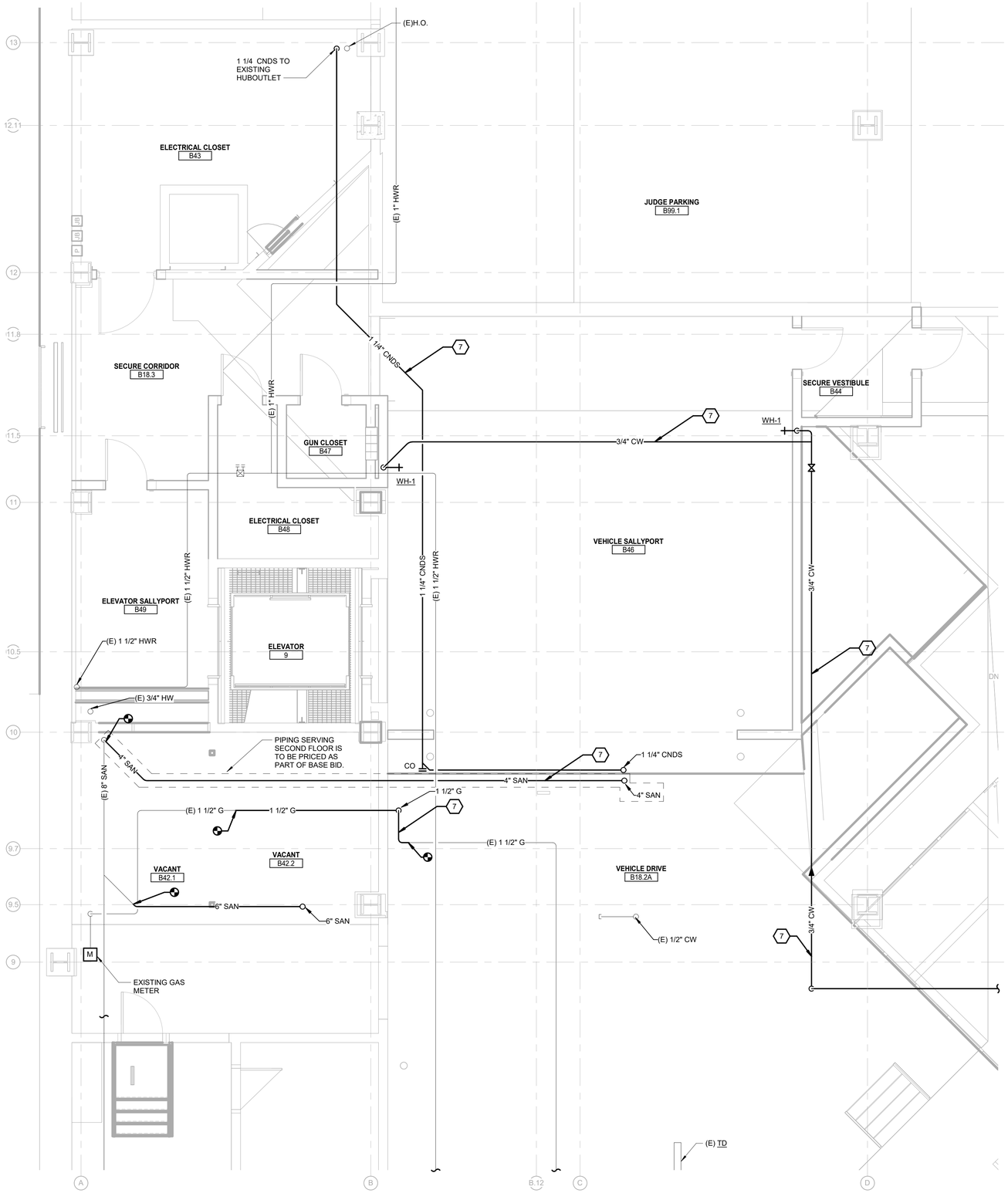

BASEMENT FLOOR - VEHICLE SALLYPORT PLUMBING PLAN

SCALE: 1/4" = 1'-0"

PLUMBING GENERAL NOTES:

1 THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, SHEET METAL, OTHER PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.

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4 PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.

5 REFER TO ARCHITECTURAL PLANS FOR DIMENSIONED LOCATIONS OF PLUMBING FIXTURES.

6 HOT AND COLD WATER PIPING RUN-OUTS TO LAVATORIES AND SINKS SHALL BE 1/2" UNLESS OTHERWISE NOTED.

7 PLUMBING VENT PIPING THROUGH ROOF SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF PARAPET.

8 PROVIDE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.

9 MINIMUM UNDERGROUND PIPE SIZE SHALL BE 3".

CONSTRUCTION KEYED NOTES:

1 2 SAN TO LAV/SINK.

2 4 SAN TO WC.

3 3 SAN TO FLOOR DRAIN/SINK WITH PRIMER CONNECTION.

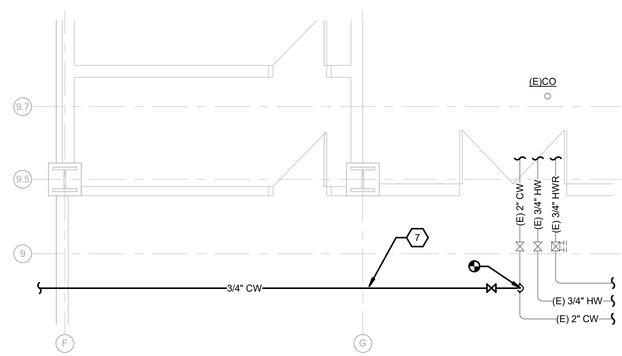
4 1 CNDS TO MIN OF 3" ABOVE FLOOR SINK/DRAIN.

5 3 SAN TO LAV/SINK.

6 4 SAN TO WC/LAV.

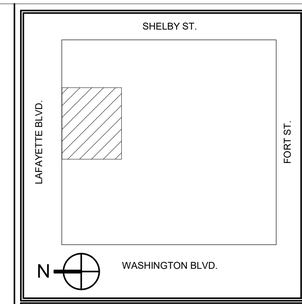
7 ROUTE PIPING AS TIGHT TO STRUCTURE ABOVE AS POSSIBLE. COORDINATE WITH ALL OTHER TRADES.

8 RECONNECT (E)CNDS TO NEW ACU UNIT AS REQUIRED.



BASEMENT FLOOR - VEHICLE SALLYPORT PLUMBING PLAN AREA A

SCALE: 1/4" = 1'-0"



GRAPHIC SCALE: 1/4"=1'-0" 0 4" 8"

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PROJECT

DRAWN BY	BPC
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FLOOR NO.	BASEMENT
DISCIPLINE	MECHANICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	P200

SHEET

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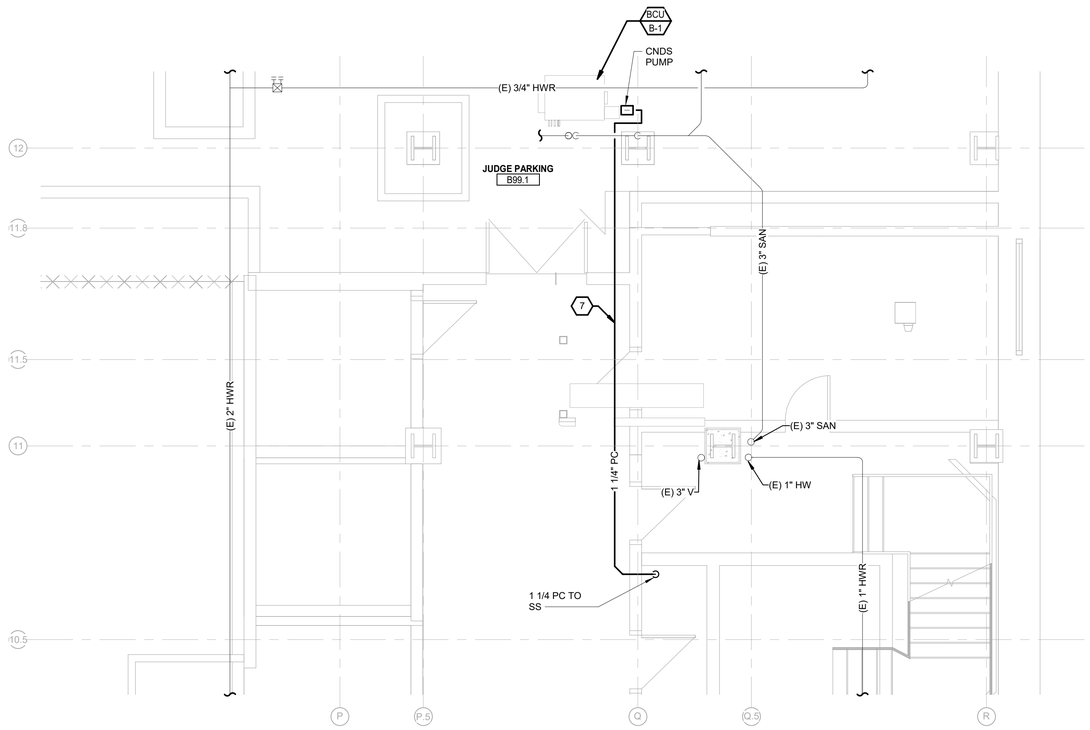

BASEMENT FLOOR - SOUTH FORT STREET PLUMBING PLAN

SCALE: 1/4" = 1'-0"

PLUMBING GENERAL NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, SHEET METAL, OTHER PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.
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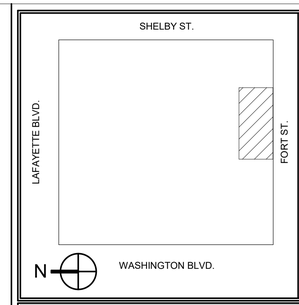
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONED LOCATIONS OF PLUMBING FIXTURES.
6. HOT AND COLD WATER PIPING RUN-OUTS TO LAVATORIES AND SINKS SHALL BE 1/2" UNLESS OTHERWISE NOTED.
7. PLUMBING VENT PIPING THROUGH ROOF SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF PARAPET.
8. PROVIDE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
9. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 3".

CONSTRUCTION KEYED NOTES:

1. 2 SAN TO LAV/SINK.
2. 4 SAN TO WC.
3. 3 SAN TO FLOOR DRAIN/SINK WITH PRIMER CONNECTION.
4. 1 CNDS TO MIN OF 3" ABOVE FLOOR SINK/DRAIN.
5. 3 SAN TO LAV/SINK.
6. 4 SAN TO WC/LAV.
7. ROUTE PIPING AS TIGHT TO STRUCTURE ABOVE AS POSSIBLE. COORDINATE WITH ALL OTHER TRADES.
8. RECONNECT (E)CNDS TO NEW ACU UNIT AS REQUIRED.



KEY PLAN

GRAPHIC SCALE: 1/4"=1'-0" 0 4' 8'

MARK	DATE	DESCRIPTION

REVISION BLOCK

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DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

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PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	BPC
CHECKED BY	WSE
FLOOR NO.	BASEMENT
DISCIPLINE	MECHANICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	P200A

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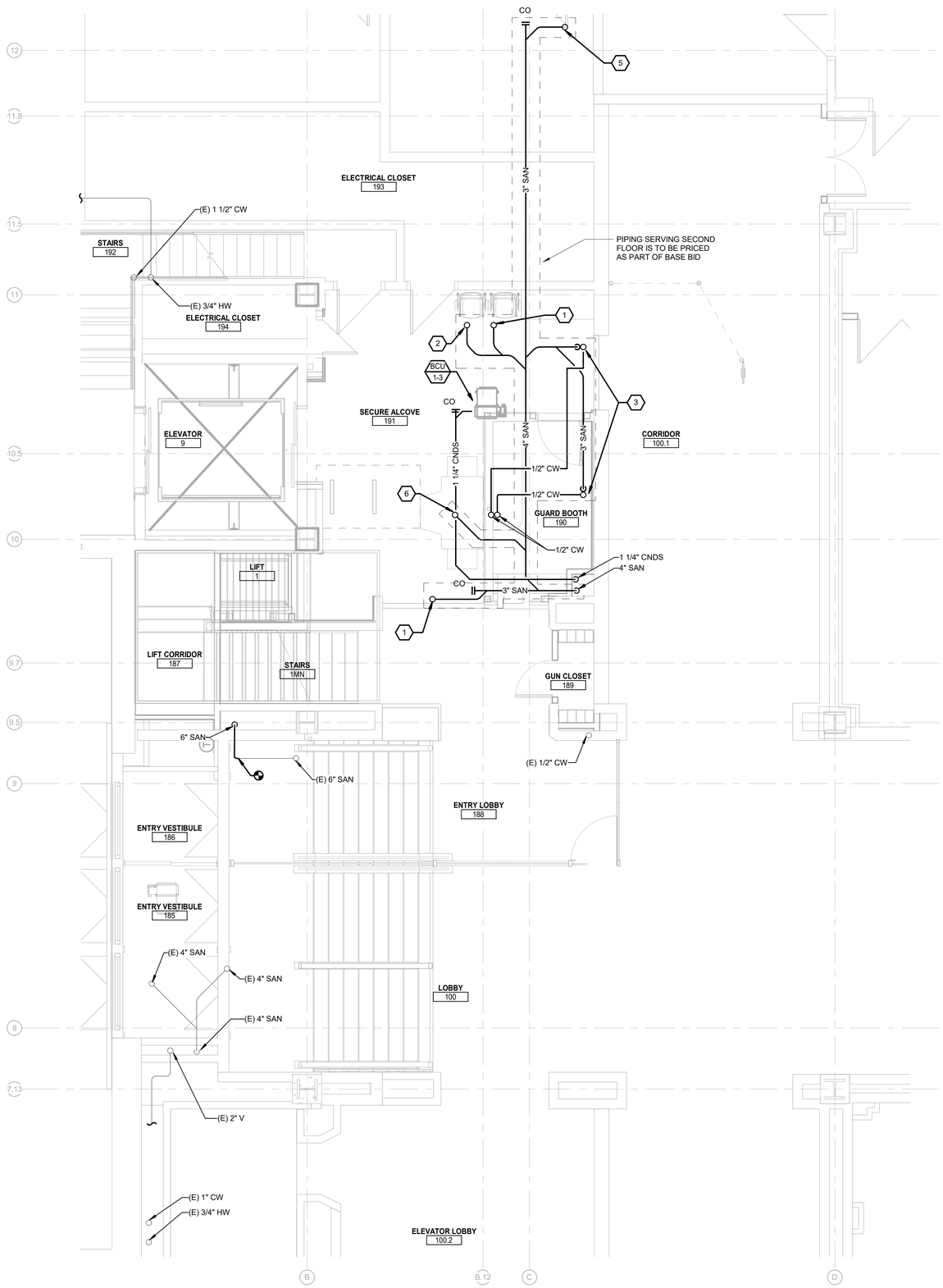

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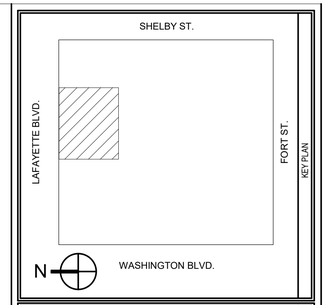
8 RECONNECT (E)CNDS TO NEW ACU UNIT AS REQUIRED.

FIRST FLOOR - PLUMBING PLAN

SCALE: 1/4" = 1'-0"



GRAPHIC SCALE

1/4"=1'-0" 0 4" 8"

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PROJECT

DRAWN BY	BPC
CHECKED BY	WSE
FLOOR NO.	FIRST FLOOR
DISCIPLINE	MECHANICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	P201

SHEET

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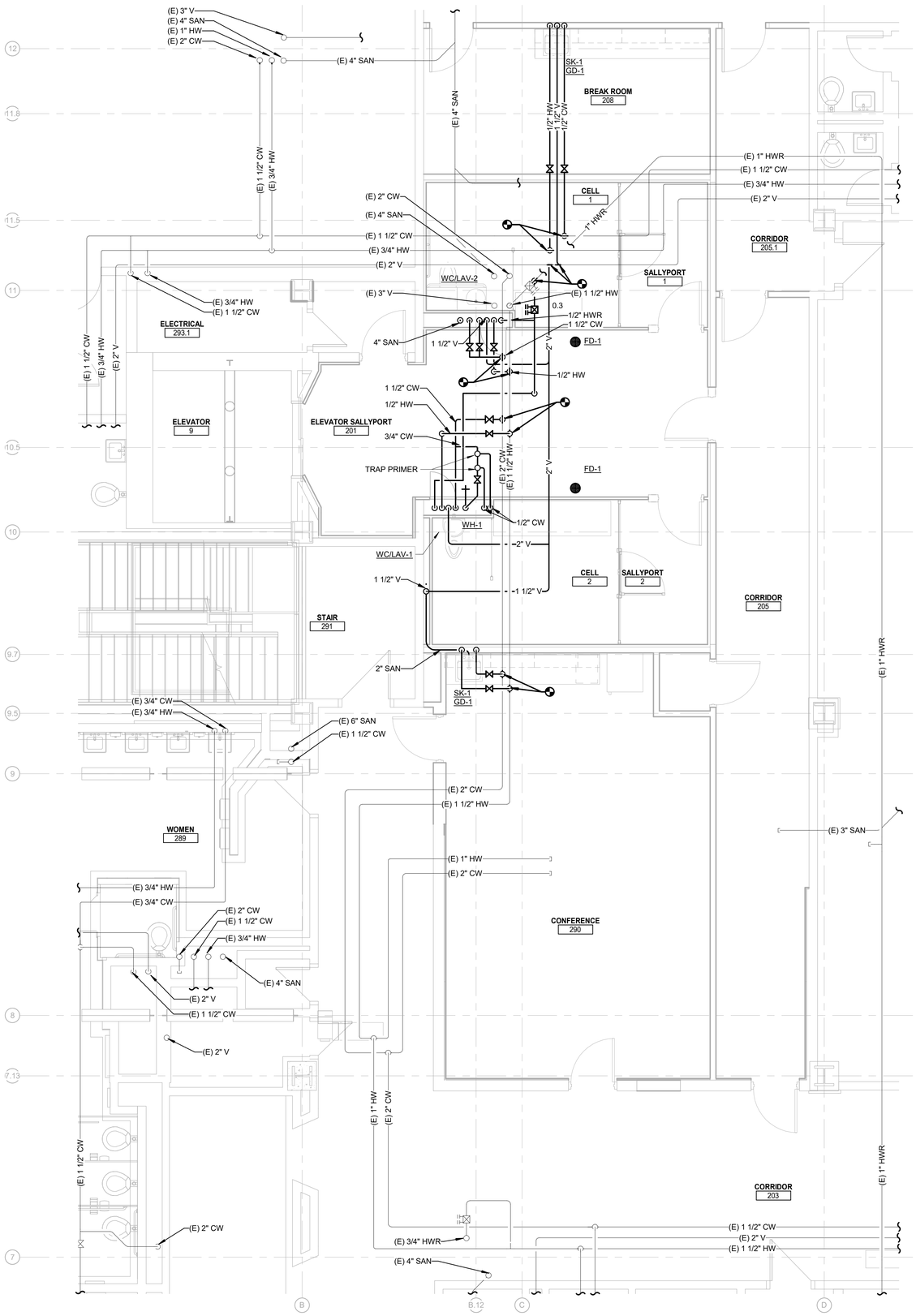

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SECOND FLOOR OPTION 1 PLUMBING PLAN

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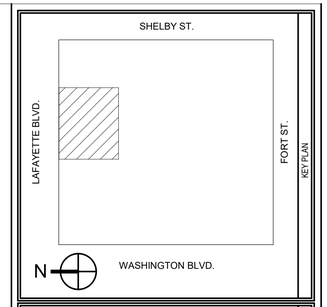

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PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	P202

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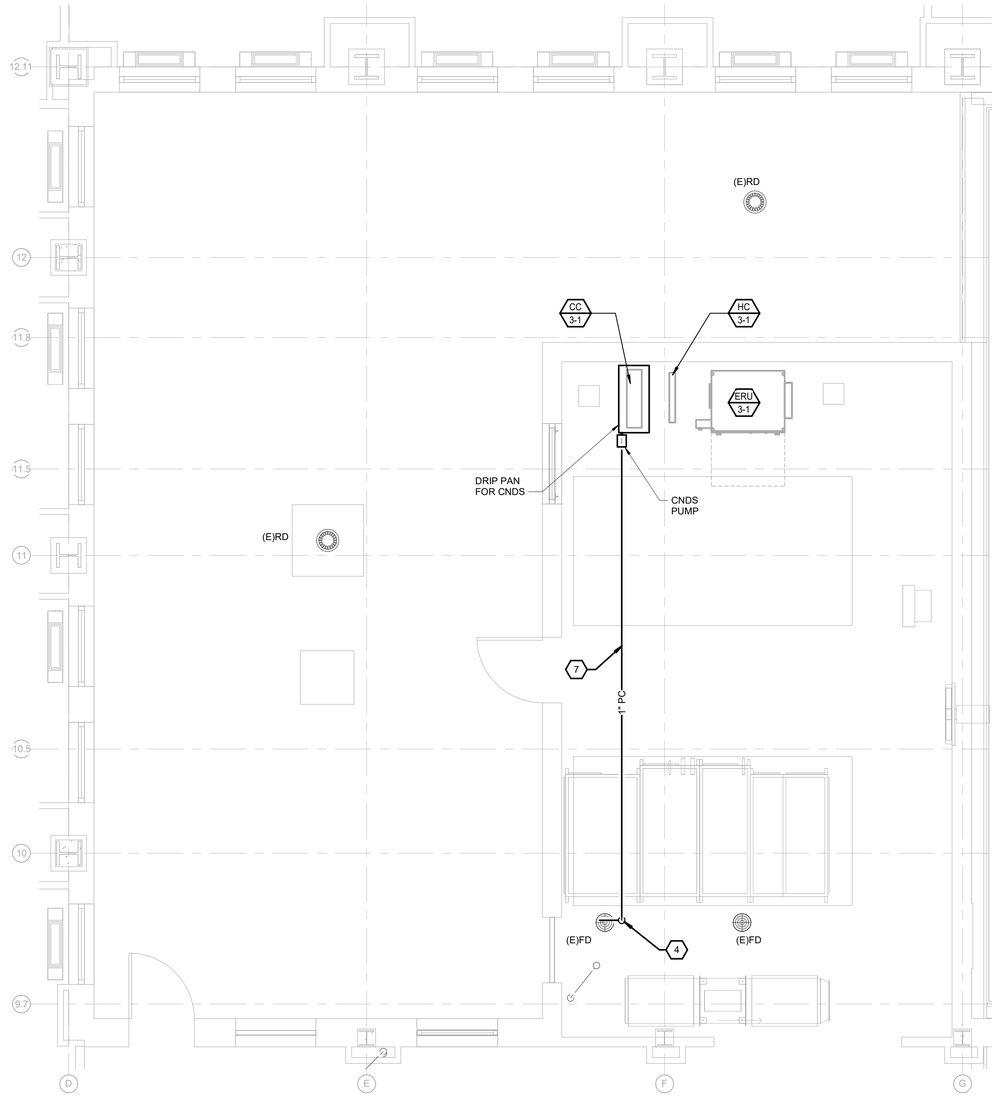


THIRD FLOOR - PLUMBING PLAN

SCALE: 1/4" = 1'-0"

PLUMBING GENERAL NOTES:

1 THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, SHEET METAL, OTHER PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.

2 INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.

3 COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.

4 PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.

5 REFER TO ARCHITECTURAL PLANS FOR DIMENSIONED LOCATIONS OF PLUMBING FIXTURES.

6 HOT AND COLD WATER PIPING RUN-OUTS TO LAVATORIES AND SINKS SHALL BE 1/2" UNLESS OTHERWISE NOTED.

7 PLUMBING VENT PIPING THROUGH ROOF SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF PARAPET.

8 PROVIDE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.

9 MINIMUM UNDERGROUND PIPE SIZE SHALL BE 3".

CONSTRUCTION KEYED NOTES:

1 2 SAN TO LAV/SINK.

2 4 SAN TO WC.

3 3 SAN TO FLOOR DRAIN/SINK WITH PRIMER CONNECTION.

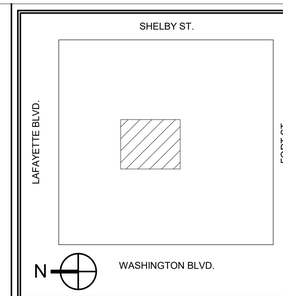
4 1 CNDS TO MIN OF 3" ABOVE FLOOR SINK/DRAIN.

5 3 SAN TO LAV/SINK.

6 4 SAN TO WC/LAV.

7 ROUTE PIPING AS TIGHT TO STRUCTURE ABOVE AS POSSIBLE. COORDINATE WITH ALL OTHER TRADES.

8 RECONNECT (E)CNDS TO NEW ACU UNIT AS REQUIRED.



KEY PLAN

GRAPHIC SCALE

1/4"=1'-0" 0 4" 8"

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

STAMP OR SEAL

STATE OF MICHIGAN
DAVID ANTHONY CONRAD
ENGINEER
No. 6201055589
LICENSED PROFESSIONAL ENGINEER

OWNER IDENTIFICATION

GSA
General Services Administration
Public Buildings Service
Great Lakes

Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	BPC
CHECKED BY	WSE
FLOOR NO.	THIRD FLOOR
DISCIPLINE	MECHANICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	P203

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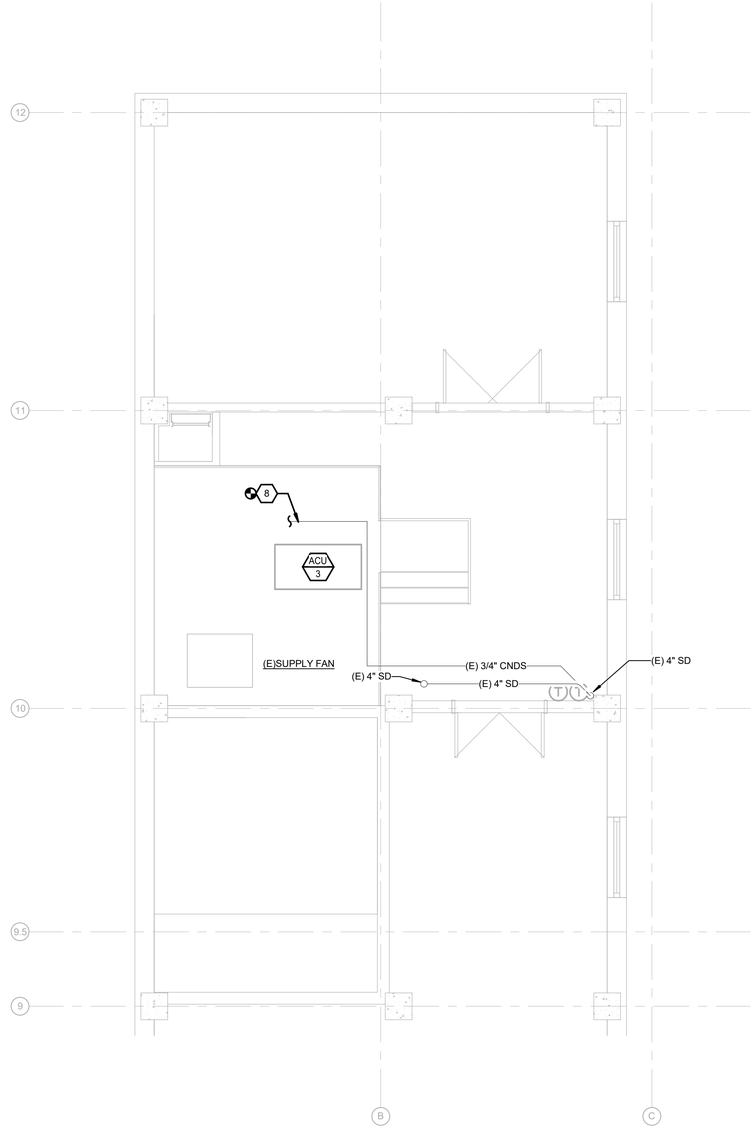

TWELFTH FLOOR ELEVATOR 9 - PLUMBING PLAN

SCALE: 1/4" = 1'-0"

PLUMBING GENERAL NOTES:

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CONSTRUCTION KEYED NOTES:

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5 3 SAN TO LAV/SINK.

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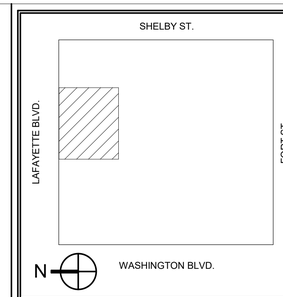

KEY PLAN

GRAPHIC SCALE

1/4"=1'-0" 0 4' 8'

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

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PBA Project No.: 2021-0206

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BUILDING

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CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	BPC
CHECKED BY	WSE
FLOOR NO.	TWELFTH
DISCIPLINE	MECHANICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	P204

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3 THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.

4 ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE, INCLUDING ALL RELATED ITEMS SUCH AS HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.

5 REMOVE ALL EXISTING ABANDONED IN PLACE DUCTS, PIPING, AND EQUIPMENT. CONTRACTOR TO VERIFY COMPONENTS ACTIVITY.

DEMOLITION KEYED NOTES:

A REMOVE EXISTING STEAM UNIT HEATER, TEMPERATURE CONTROLS, ELECTRICAL CONNECTION, STEAM PIPING, INSULATION AND ASSOCIATED COMPONENTS AS INDICATED. CAP PIPING WHERE INDICATED.

B REMOVE EXISTING STEAM RADIATOR, TEMPERATURE CONTROLS, STEAM PIPING, INSULATION, AND ASSOCIATED COMPONENTS AS INDICATED. CAP PIPING WHERE INDICATED.

C REMOVE EXISTING HOT WATER HEATING PIPING, INSULATION, HANGERS, VALVES, AND ASSOCIATED COMPONENTS AS INDICATED. CAP PIPING WHERE INDICATED.

D REMOVE EXISTING EXHAUST FANS AND DUCTWORK BACK TO LOUVER. FANS TO BE SALVAGED AND TURNED OVER TO OWNER FOR STORAGE.

E REMOVE EXISTING STEAM FAN COIL UNIT, ELECTRICAL CONNECTION, TEMPERATURE CONTROLS, PIPING, INSULATION, HANGERS, AND ASSOCIATED COMPONENTS COMPLETE.

F REMOVE EXISTING HOT WATER CABINET UNIT HEATER, ELECTRICAL CONNECTION, TEMPERATURE CONTROLS, PIPING, INSULATION, HANGERS, AND ASSOCIATED COMPONENTS COMPLETE.

G REMOVE AND RELOCATE EXISTING TEMPERATURE CONTROLS PANEL. REFER TO NEW WORK PLAN FOR NEW LOCATION.

H REMOVE EXISTING SUPPLY DIFFUSER, DUCTWORK, INSULATION, AND ASSOCIATED COMPONENTS AS INDICATED.

I REMOVE EXISTING RETURN AIR GRILLE COMPLETE.

J REMOVE EXISTING TERMINAL UNIT, TEMPERATURE CONTROLS, DIFFUSERS, DAMPERS, DUCTWORK, INSULATION, HANGERS, AND ASSOCIATED COMPONENTS COMPLETE. CAP CONNECTION TO SUPPLY AIR MAIN. TERMINAL UNIT AND COIL TO BE SALVAGED AND REUSED.

K REMOVE EXISTING RETURN AIR GRILLE, DAMPERS, DUCTWORK, INSULATION, HANGERS, AND ASSOCIATED COMPONENTS COMPLETE.

L REMOVE EXISTING PLENUM. EXTERIOR LOUVER TO REMAIN.

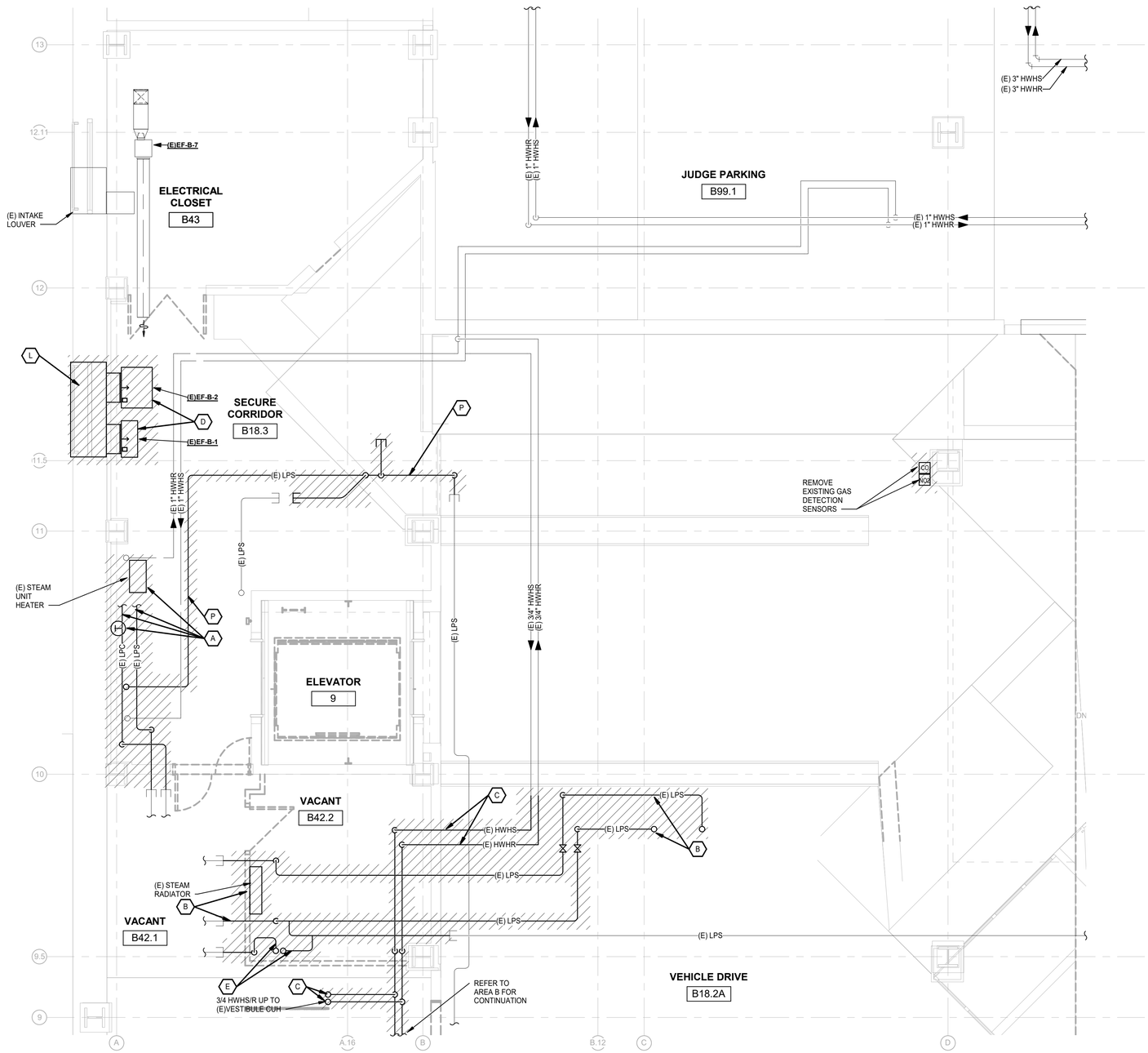
M REMOVE BASE MOUNTED FAN, SUPPORT, CONTROLS, AND DUCTWORK.

N REMOVE DUCTWORK COMPLETE.

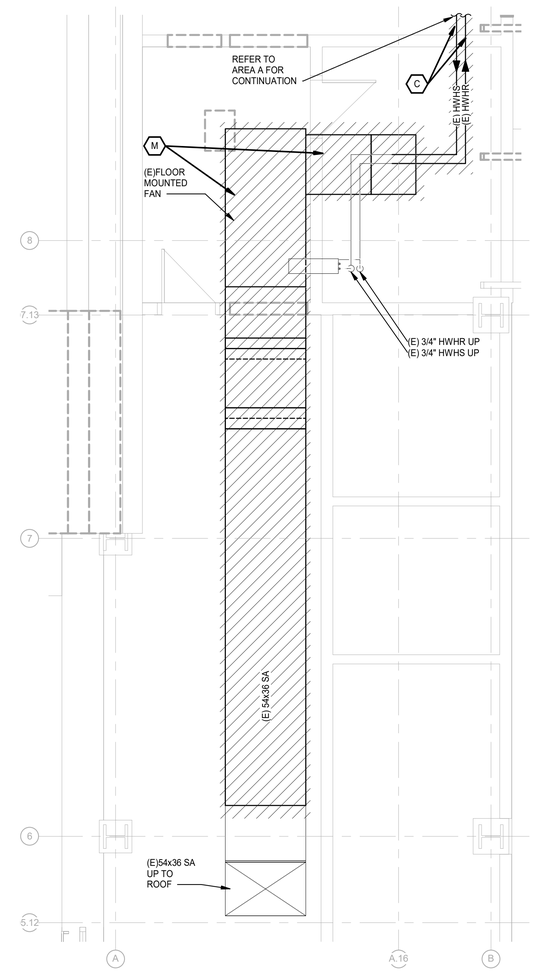
O REMOVE PROPELLER FAN, CONTROLS, AND MOTORIZED LOUVER COMPLETE.

P REMOVE STEAM PIPING, INSULATION, HANGERS, VALVES, AND ASSOCIATED COMPONENTS.

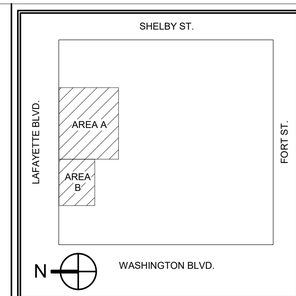
Q REMOVE AC-3, CONDENSING UNIT, ASSOCIATED DUCTWORK, INSULATION, HANGERS, VALVES, AND ASSOCIATED COMPONENTS. REMOVE THROUGH WINDOW HOOD.



BASEMENT FLOOR - MECHANICAL DEMOLITION PLAN - AREA A
SCALE: 1/4" = 1'-0"



BASEMENT FLOOR - MECHANICAL DEMOLITION PLAN - AREA B
SCALE: 1/4" = 1'-0"



KEY PLAN

GRAPHIC SCALE: 1/4"=1'-0" 0 4' 8'

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

DESIGNER IDENTIFICATION
FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION
Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No: 2021-0206

STAMP OR SEAL
STATE OF MICHIGAN
DAVID ANTHONY CONRAD
ENGINEER
No. 6201055589
LICENSED PROFESSIONAL ENGINEER

OWNER IDENTIFICATION
GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	RLT
CHECKED BY	DC
FLOOR NO.	BASEMENT
DISCIPLINE	MECHANICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	MD100A

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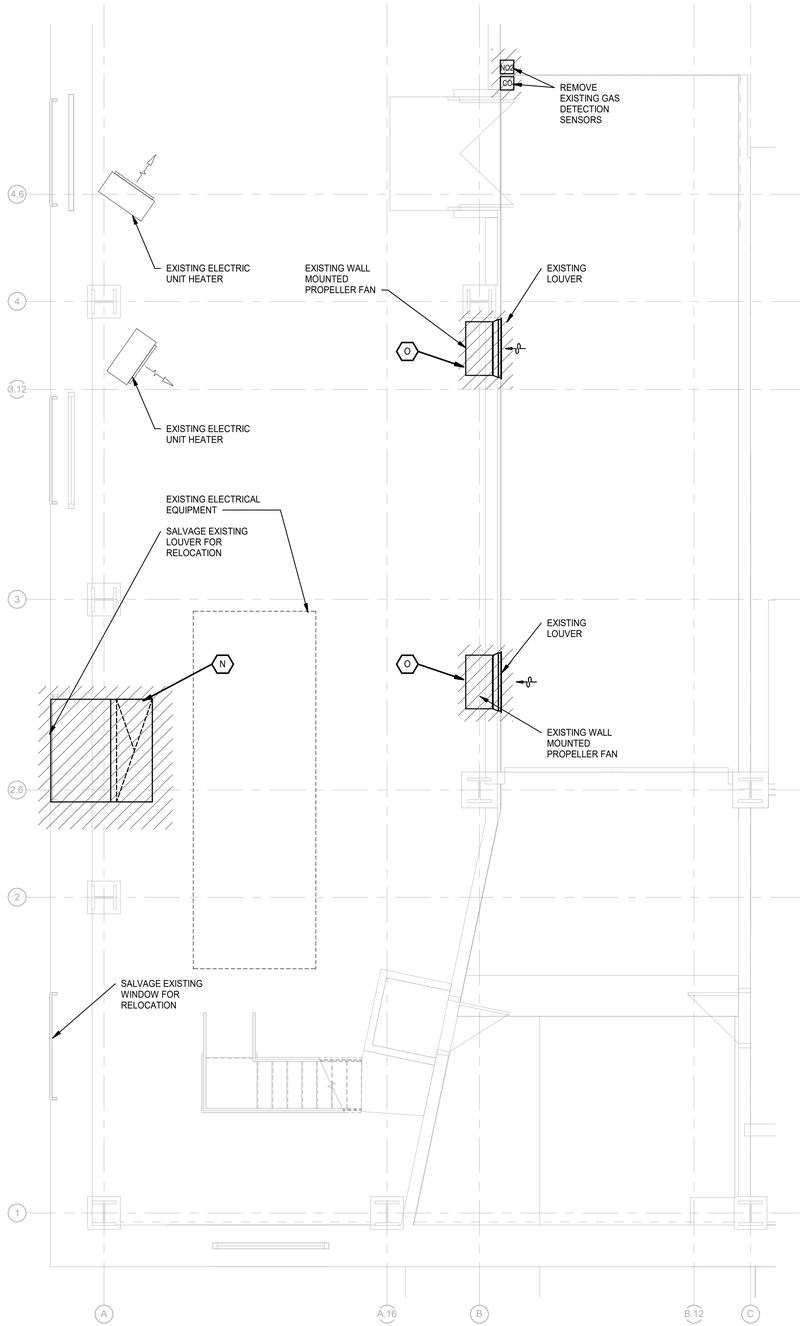

BASEMENT FLOOR - MECHANICAL DEMOLITION PLAN - AREA C

SCALE: 1/4" = 1'-0"

MECHANICAL DEMOLITION GENERAL NOTES:

1 ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE.

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4 ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE, INCLUDING ALL RELATED ITEMS SUCH AS HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.

5 REMOVE ALL EXISTING ABANDONED IN PLACE DUCTS, PIPING, AND EQUIPMENT. CONTRACTOR TO VERIFY COMPONENTS ACTIVITY.

DEMOLITION KEYED NOTES:

A REMOVE EXISTING STEAM UNIT HEATER, TEMPERATURE CONTROLS, ELECTRICAL CONNECTION, STEAM PIPING, INSULATION AND ASSOCIATED COMPONENTS AS INDICATED. CAP PIPING WHERE INDICATED.

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D REMOVE EXISTING EXHAUST FANS AND DUCTWORK BACK TO LOUVER. FANS TO BE SALVAGED AND TURNED OVER TO OWNER FOR STORAGE.

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F REMOVE EXISTING HOT WATER CABINET UNIT HEATER, ELECTRICAL CONNECTION, TEMPERATURE CONTROLS, PIPING, INSULATION, HANGERS, AND ASSOCIATED COMPONENTS COMPLETE.

G REMOVE AND RELOCATE EXISTING TEMPERATURE CONTROLS PANEL. REFER TO NEW WORK PLAN FOR NEW LOCATION.

H REMOVE EXISTING SUPPLY DIFFUSER, DUCTWORK, INSULATION, AND ASSOCIATED COMPONENTS AS INDICATED.

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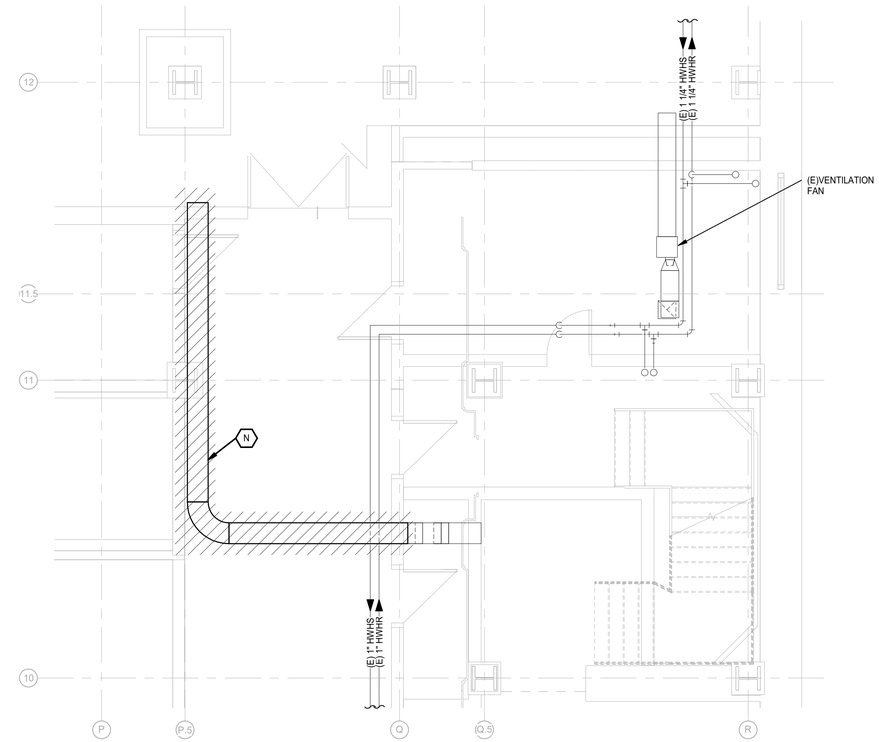
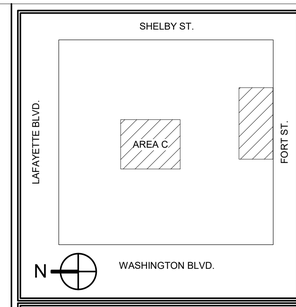


BASEMENT FLOOR - SOUTH FORT STREET MECHANICAL DEMOLITION PLAN

SCALE: 1/4" = 1'-0"



KEY PLAN

GRAPHIC SCALE: 1/4"=1'-0" 0 4" 8"

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

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BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	RLT
CHECKED BY	DC
FLOOR NO.	BASEMENT
DISCIPLINE	MECHANICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	MD100B

SHEET

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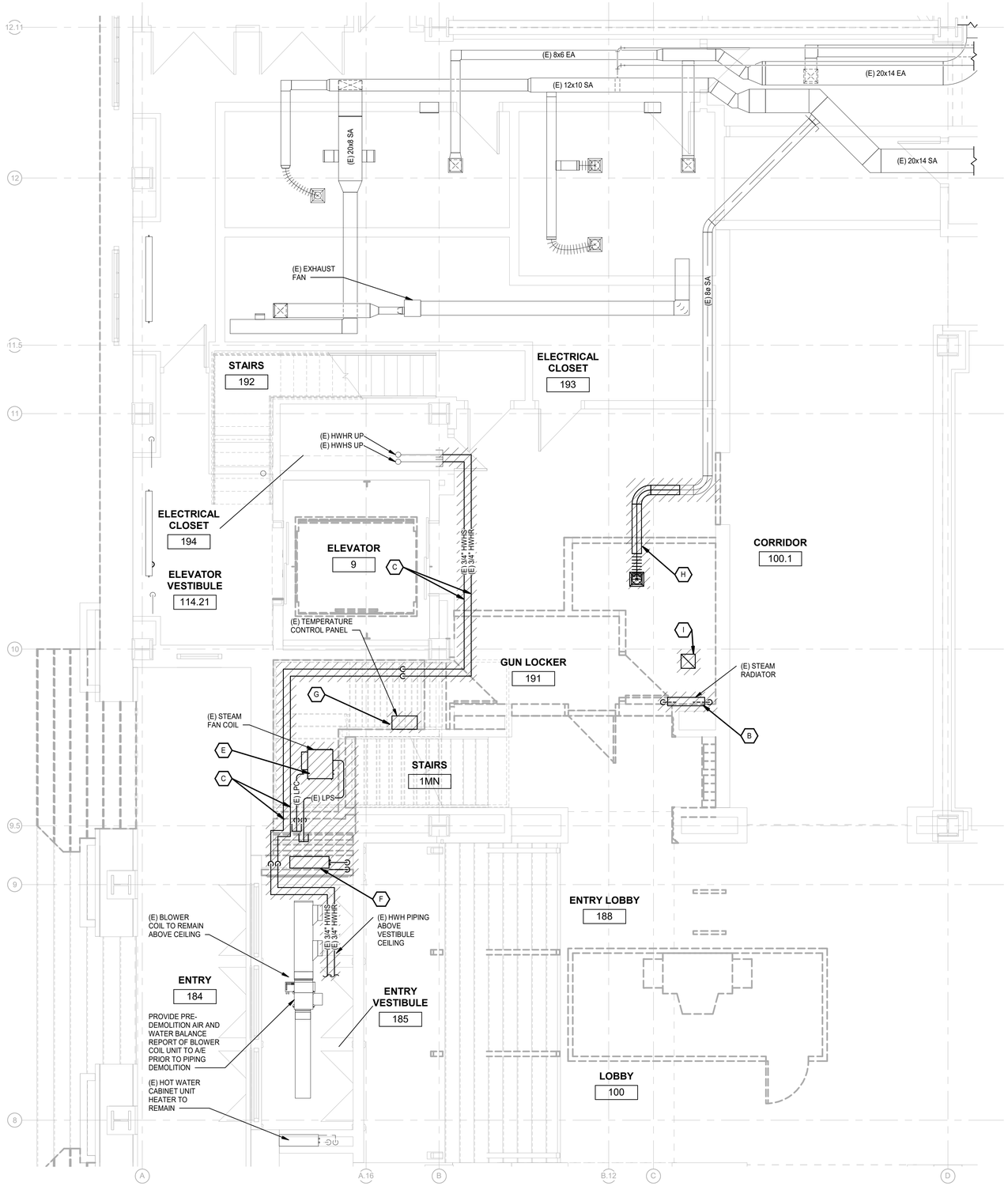

FIRST FLOOR - NORTH LAFAYETTE MECHANICAL DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

MECHANICAL DEMOLITION GENERAL NOTES:

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D REMOVE EXISTING EXHAUST FANS AND DUCTWORK BACK TO LOUVER. FANS TO BE SALVAGED AND TURNED OVER TO OWNER FOR STORAGE.

E REMOVE EXISTING STEAM FAN COIL UNIT, ELECTRICAL CONNECTION, TEMPERATURE CONTROLS, PIPING, INSULATION, HANGERS, AND ASSOCIATED COMPONENTS COMPLETE.

F REMOVE EXISTING HOT WATER CABINET UNIT HEATER, ELECTRICAL CONNECTION, TEMPERATURE CONTROLS, PIPING, INSULATION, HANGERS, AND ASSOCIATED COMPONENTS COMPLETE.

G REMOVE AND RELOCATE EXISTING TEMPERATURE CONTROLS PANEL. REFER TO NEW WORK PLAN FOR NEW LOCATION.

H REMOVE EXISTING SUPPLY DIFFUSER, DUCTWORK, INSULATION, AND ASSOCIATED COMPONENTS AS INDICATED.

I REMOVE EXISTING RETURN AIR GRILLE COMPLETE.

J REMOVE EXISTING TERMINAL UNIT, TEMPERATURE CONTROLS, DIFFUSERS, DAMPERS, DUCTWORK, INSULATION, HANGERS, AND ASSOCIATED COMPONENTS COMPLETE. CAP CONNECTION TO SUPPLY AIR MAIN. TERMINAL UNIT AND COIL TO BE SALVAGED AND REUSED.

K REMOVE EXISTING RETURN AIR GRILLE, DAMPERS, DUCTWORK, INSULATION, HANGERS, AND ASSOCIATED COMPONENTS COMPLETE.

L REMOVE EXISTING PLENUM. EXTERIOR LOUVER TO REMAIN.

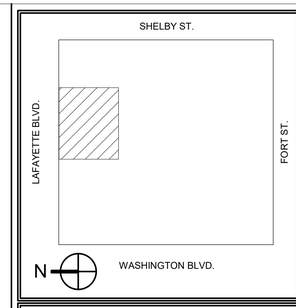
M REMOVE BASE MOUNTED FAN, SUPPORT, CONTROLS, AND DUCTWORK.

N REMOVE DUCTWORK COMPLETE.

O REMOVE PROPELLER FAN, CONTROLS, AND MOTORIZED LOUVER COMPLETE.

P REMOVE STEAM PIPING, INSULATION, HANGERS, VALVES, AND ASSOCIATED COMPONENTS.

Q REMOVE AC-3, CONDENSING UNIT, ASSOCIATED DUCTWORK, INSULATION, HANGERS, VALVES, AND ASSOCIATED COMPONENTS. REMOVE THROUGH WINDOW HOOD.



KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

CONSULTANT IDENTIFICATION

STATE OF MICHIGAN
DAVID ANTHONY CONRAD
ENGINEER
No. 6201055589
LICENSED PROFESSIONAL ENGINEER

STAMP OR SEAL

GSA
General Services Administration
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John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	RLT
CHECKED BY	DC
FLOOR NO.	FIRST FLOOR
DISCIPLINE	MECHANICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	MD101A

SHEET

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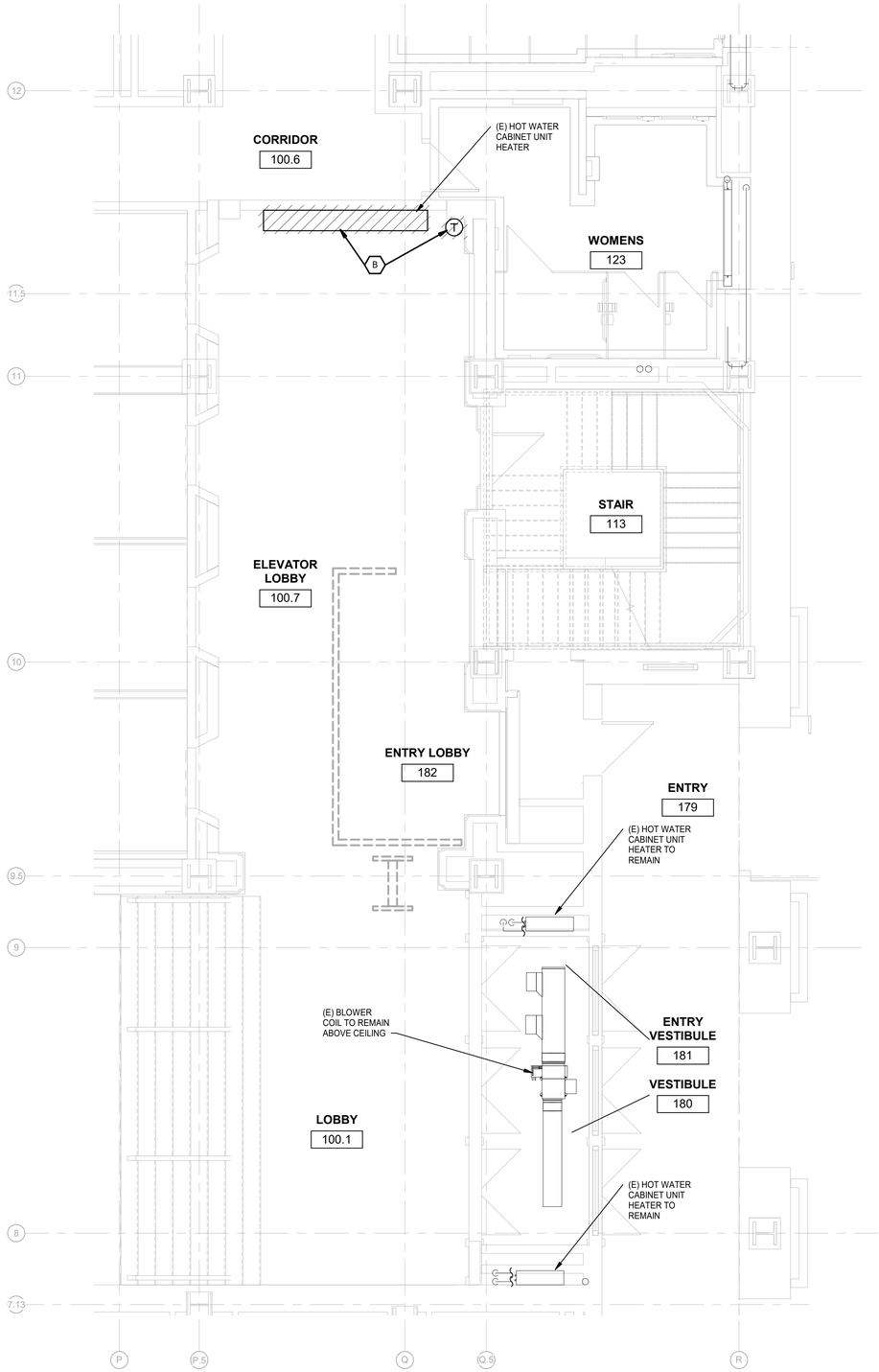


FIRST FLOOR - SOUTH FORT STREET MECHANICAL DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

MECHANICAL DEMOLITION GENERAL NOTES:

1 ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE.

2 THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. ACTUAL ROUTING AND SIZES OF EXISTING PIPING AND DUCTWORK MIGHT DIFFER TO A LIMITED EXTENT FROM WHAT IS SHOWN. MAJOR DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL EXISTING CONDITIONS SHALL BE REPORTED TO THE ENGINEER.

3 THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.

4 ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE, INCLUDING ALL RELATED ITEMS SUCH AS HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.

5 REMOVE ALL EXISTING ABANDONED IN PLACE DUCTS, PIPING, AND EQUIPMENT. CONTRACTOR TO VERIFY COMPONENTS ACTIVITY.

DEMOLITION KEYED NOTES:

A REMOVE EXISTING STEAM UNIT HEATER, TEMPERATURE CONTROLS, ELECTRICAL CONNECTION, STEAM PIPING, INSULATION AND ASSOCIATED COMPONENTS AS INDICATED. CAP PIPING WHERE INDICATED.

B REMOVE EXISTING STEAM RADIATOR, TEMPERATURE CONTROLS, STEAM PIPING, INSULATION, AND ASSOCIATED COMPONENTS AS INDICATED. CAP PIPING WHERE INDICATED.

C REMOVE EXISTING HOT WATER HEATING PIPING, INSULATION, HANGERS, VALVES, AND ASSOCIATED COMPONENTS AS INDICATED. CAP PIPING WHERE INDICATED.

D REMOVE EXISTING EXHAUST FANS AND DUCTWORK BACK TO LOUVER. FANS TO BE SALVAGED AND TURNED OVER TO OWNER FOR STORAGE.

E REMOVE EXISTING STEAM FAN COIL UNIT, ELECTRICAL CONNECTION, TEMPERATURE CONTROLS, PIPING, INSULATION, HANGERS, AND ASSOCIATED COMPONENTS COMPLETE.

F REMOVE EXISTING HOT WATER CABINET UNIT HEATER, ELECTRICAL CONNECTION, TEMPERATURE CONTROLS, PIPING, INSULATION, HANGERS, AND ASSOCIATED COMPONENTS COMPLETE.

G REMOVE AND RELOCATE EXISTING TEMPERATURE CONTROLS PANEL. REFER TO NEW WORK PLAN FOR NEW LOCATION.

H REMOVE EXISTING SUPPLY DIFFUSER, DUCTWORK, INSULATION, AND ASSOCIATED COMPONENTS AS INDICATED.

I REMOVE EXISTING RETURN AIR GRILLE COMPLETE.

J REMOVE EXISTING TERMINAL UNIT, TEMPERATURE CONTROLS, DIFFUSERS, DAMPERS, DUCTWORK, INSULATION, HANGERS, AND ASSOCIATED COMPONENTS COMPLETE. CAP CONNECTION TO SUPPLY AIR MAIN. TERMINAL UNIT AND COIL TO BE SALVAGED AND REUSED.

K REMOVE EXISTING RETURN AIR GRILLE, DAMPERS, DUCTWORK, INSULATION, HANGERS, AND ASSOCIATED COMPONENTS COMPLETE.

L REMOVE EXISTING PLENUM. EXTERIOR LOUVER TO REMAIN.

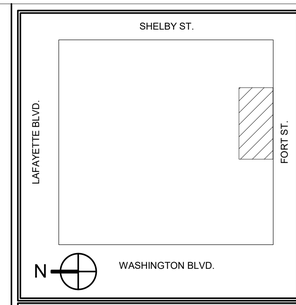
M REMOVE BASE MOUNTED FAN, SUPPORT, CONTROLS, AND DUCTWORK.

N REMOVE DUCTWORK COMPLETE.

O REMOVE PROPELLER FAN, CONTROLS, AND MOTORIZED LOUVER COMPLETE.

P REMOVE STEAM PIPING, INSULATION, HANGERS, VALVES, AND ASSOCIATED COMPONENTS.

Q REMOVE AC-3, CONDENSING UNIT, ASSOCIATED DUCTWORK, INSULATION, HANGERS, VALVES, AND ASSOCIATED COMPONENTS. REMOVE THROUGH WINDOW HOOD.



KEY PLAN

1/4"=1'-0" 0 4" 8"

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

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PBA Project No: 2021-0206

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DAVID ANTHONY CONRAD
ENGINEER
No. 62010555580
LICENSED PROFESSIONAL ENGINEER

STAMP OR SEAL

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John C. Kluczynski Federal Building
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Room 3500
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BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	RLT
CHECKED BY	DC
FLOOR NO.	FIRST FLOOR
DISCIPLINE	MECHANICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	MD101B

SHEET

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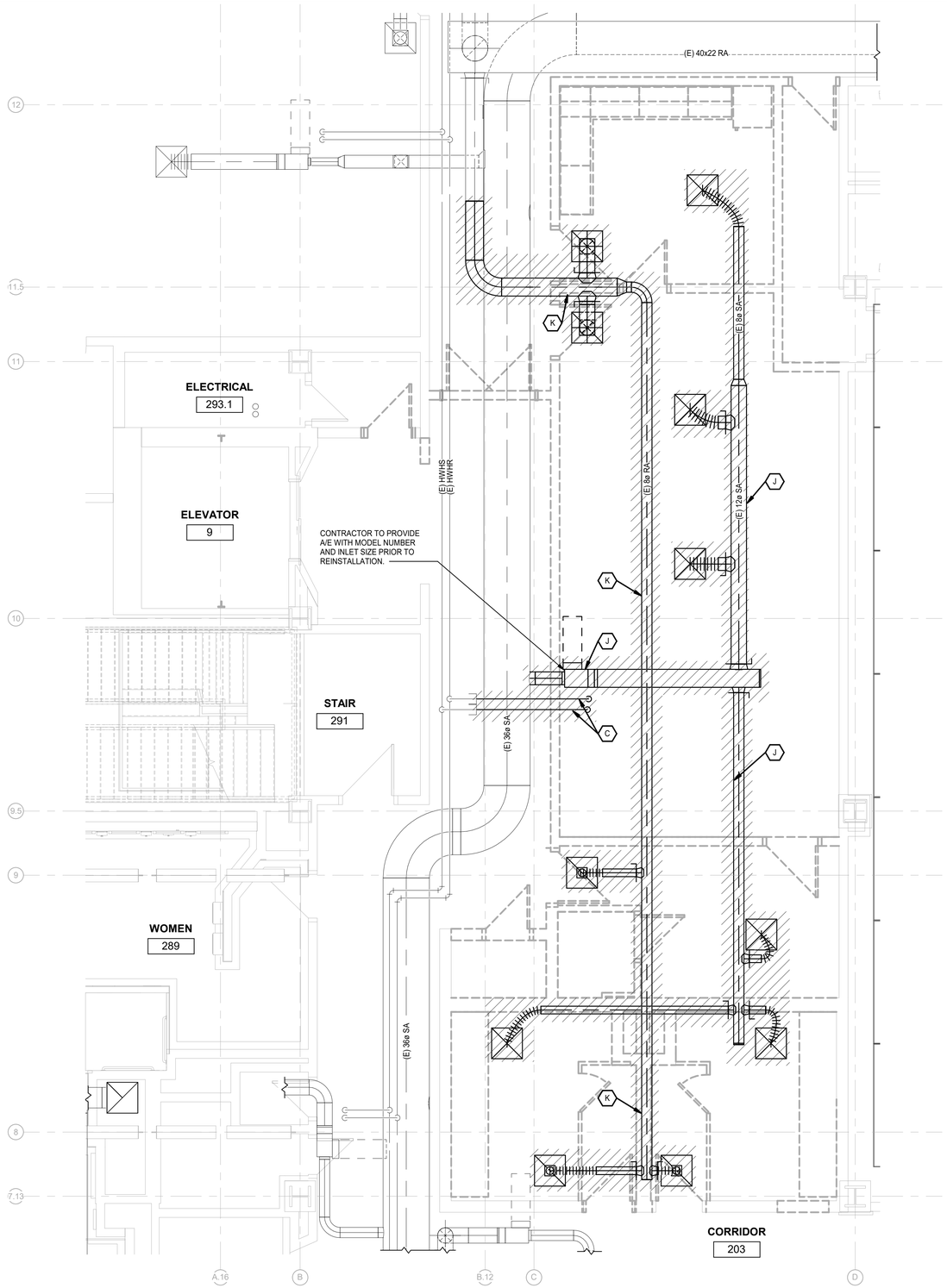

SECOND FLOOR - OPTION 1 MECHANICAL DEMOLITION PLAN A

SCALE: 1/4" = 1'-0"

MECHANICAL DEMOLITION GENERAL NOTES:

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F REMOVE EXISTING HOT WATER CABINET UNIT HEATER, ELECTRICAL CONNECTION, TEMPERATURE CONTROLS, PIPING, INSULATION, HANGERS, AND ASSOCIATED COMPONENTS COMPLETE.

G REMOVE AND RELOCATE EXISTING TEMPERATURE CONTROLS PANEL. REFER TO NEW WORK PLAN FOR NEW LOCATION.

H REMOVE EXISTING SUPPLY DIFFUSER, DUCTWORK, INSULATION, AND ASSOCIATED COMPONENTS AS INDICATED.

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J REMOVE EXISTING TERMINAL UNIT, TEMPERATURE CONTROLS, DIFFUSERS, DAMPERS, DUCTWORK, INSULATION, HANGERS, AND ASSOCIATED COMPONENTS COMPLETE. CAP CONNECTION TO SUPPLY AIR MAIN. TERMINAL UNIT AND COIL TO BE SALVAGED AND REUSED.

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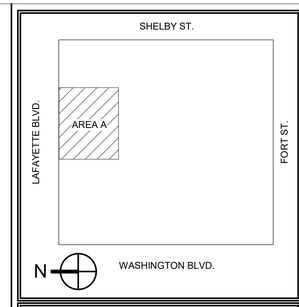

KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

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248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

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CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
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www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

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STATE OF MICHIGAN
DAVID ANTHONY CONRAD
ENGINEER
No. 6201055589
LICENSED PROFESSIONAL ENGINEER

STAMP OR SEAL

GSA
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Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
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Chicago, IL 60604

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ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	RLT
CHECKED BY	DC
FLOOR NO.	SECOND FLOOR
DISCIPLINE	MECHANICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	MD102

SHEET

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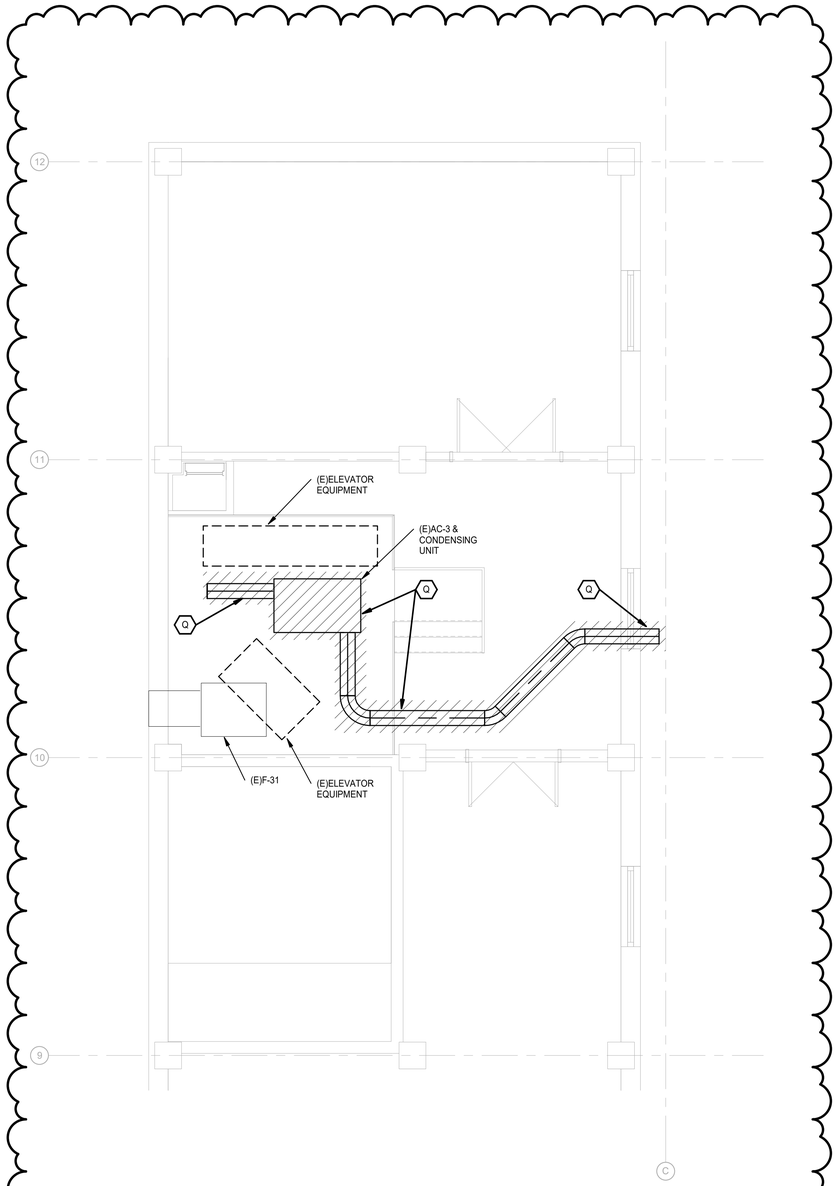

TWELFTH FLOOR ELEVATOR 9 - MECHANICAL DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

MECHANICAL DEMOLITION GENERAL NOTES:

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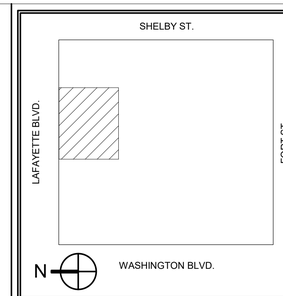

KEY PLAN

1/4"=1'-0" 0 4" 8"

GRAPHIC SCALE

MARK	DATE	DESCRIPTION
1	2/15/2023	100% REVISION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
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CONTRACT

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PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	RLT
CHECKED BY	DC
FLOOR NO.	TWELFTH
DISCIPLINE	MECHANICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	MD104

SHEET

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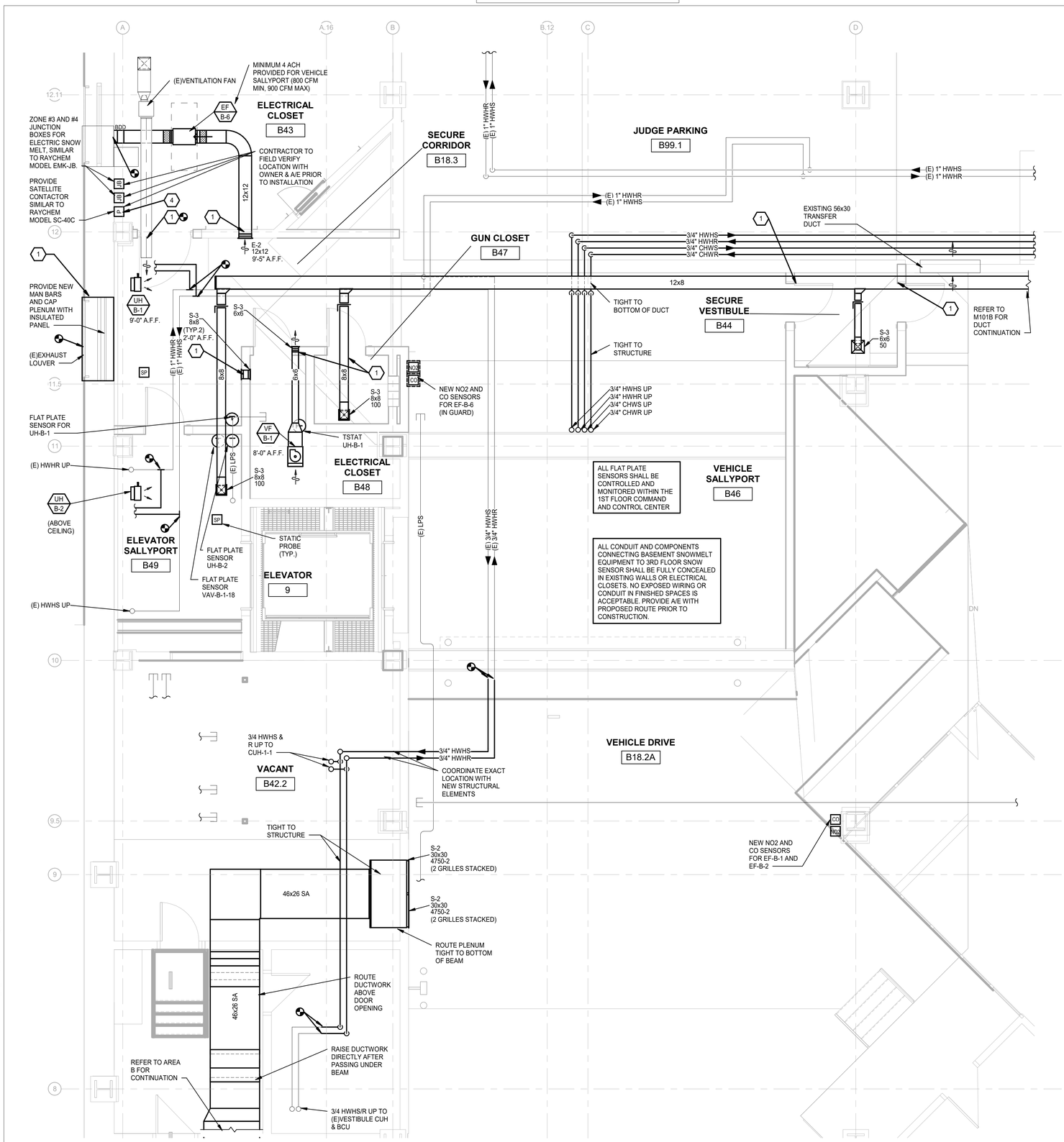

BASEMENT FLOOR - MECHANICAL PLAN - AREA A

SCALE: 1/4" = 1'-0"

SHEET METAL GENERAL NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. PIPING AND DUCTWORK SHALL NOT BE INSTALLED ABOVE ELECTRICAL TRANSFORMERS, SWITCHBOARDS, PANELBOARDS OR MOTOR CONTROL CENTERS.
4. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
5. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
6. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONED LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.
7. REFER TO TEMPERATURE CONTROLS STANDARD MOUNTING HEIGHTS DETAIL FOR ELEVATIONS OF WALL MOUNTED TEMPERATURE CONTROL DEVICES.

HVAC PIPING GENERAL NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, SHEET METAL, OTHER PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
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5. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
6. SUBMIT PROPOSED METHODS OF ANCHORING AND GUIDING PIPING SYSTEMS TO STRUCTURAL ENGINEER FOR APPROVAL.
7. COORDINATE LOCATION OF DUCT-MOUNTED HYDRONIC DEVICES WITH SHEET METAL TRADES.
8. BRANCH PIPING SERVING TERMINAL UNIT HEATING COILS OR RADIANT CEILING PANELS SHALL BE 3/4" UNLESS OTHERWISE NOTED. BRANCH PIPING SERVING MORE THAN ONE TERMINAL UNIT HEATING COIL SHALL BE 1" UNLESS OTHERWISE NOTED. BRANCH PIPING SERVING HOT WATER UNIT HEATERS AND CABINET UNIT HEATERS SHALL BE 1" UNLESS OTHERWISE NOTED.
9. REFER TO TEMPERATURE CONTROLS STANDARD MOUNTING HEIGHTS DETAIL FOR ELEVATIONS OF WALL MOUNTED TEMPERATURE CONTROL DEVICES.

CONSTRUCTION KEYED NOTES:

1. PROVIDE DUCT MOUNTED MAN BARS AT WALL PENETRATION. REFER TO RETURN/SUPPLY AIR DUCT PENETRACTION AND HVAC DUCT MANBAR ELEVATION ON M603.
2. SLAB SENSOR FOR SNOWMELT SYSTEM, COORDINATE LOCATION WITH SNOW/ICE SENSOR AND INSTALL PER MANUFACTURERS GUIDELINES.
3. SNOW/ICE SENSOR COORIDNATION LOCAITON WITH SLAB SENSOR. INSTALL SENSOR PER MANUFACTURERS GUIDELINES.
4. ROUTE 3 CONDUCTOR, 18 GA WIRE FROM APC-4C IN AREA B TO SC-40 CONTROLLER IN AREA A.
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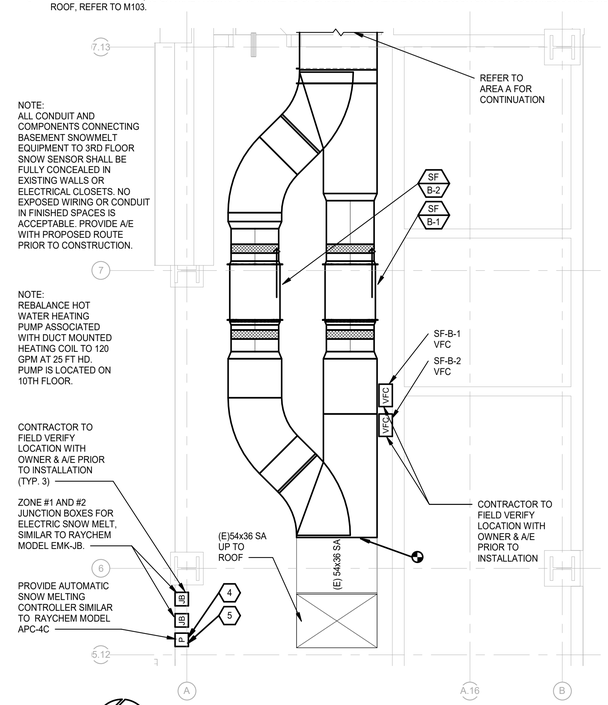
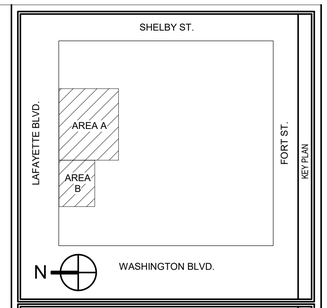


BASEMENT FLOOR - MECHANICAL PLAN - AREA B

SCALE: 1/4" = 1'-0"



1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
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248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

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Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No: 2021-0206

CONSULTANT IDENTIFICATION

STATE OF MICHIGAN DAVID ANTHONY CONRAD ENGINEER No. 6201055580 LICENSED PROFESSIONAL ENGINEER

STAMP OR SEAL

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	RLT
CHECKED BY	DC
FLOOR NO.	BASEMENT
DISCIPLINE	MECHANICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	M100A

SHEET

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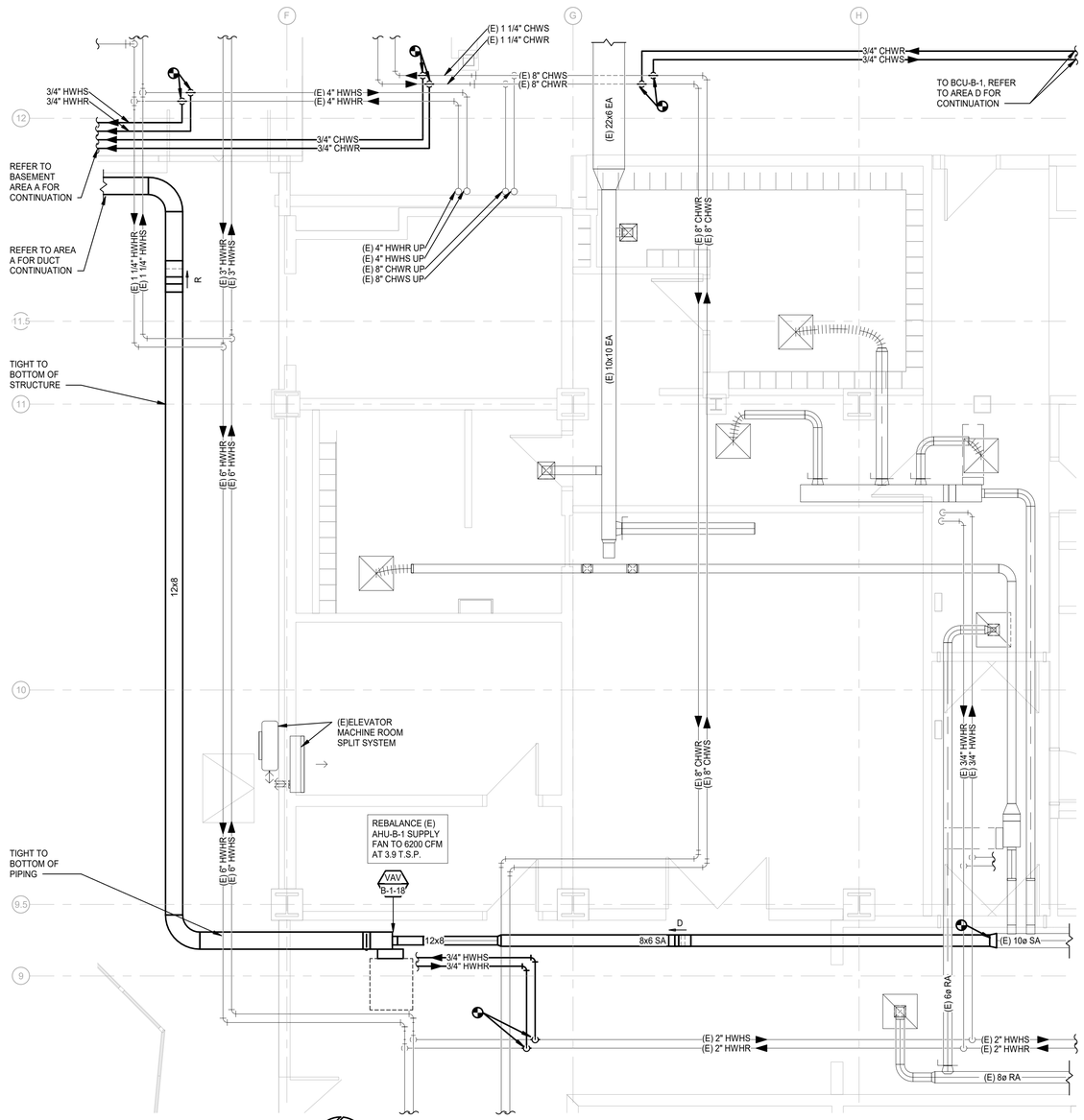
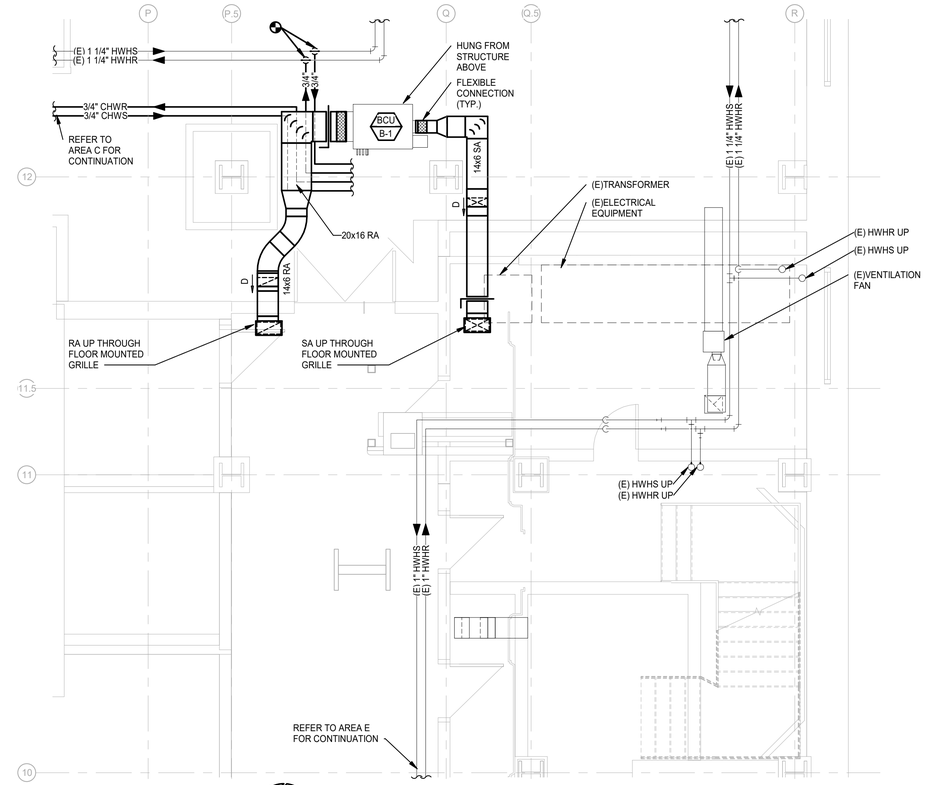


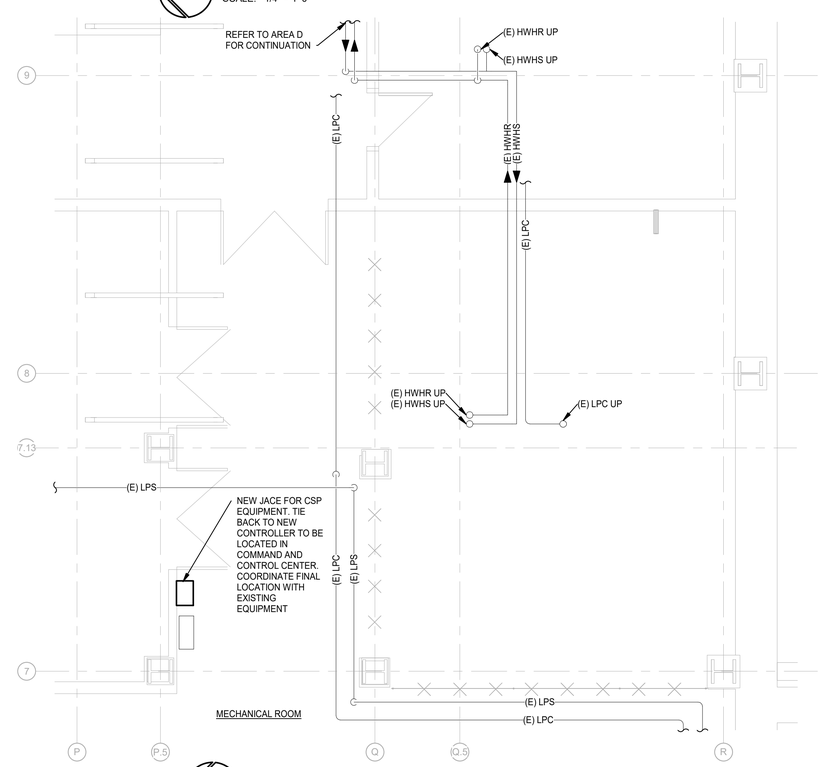
BASEMENT FLOOR - MECHANICAL PLAN - AREA C

SCALE: 1/4" = 1'-0"



BASEMENT FLOOR - MECHANICAL PLAN - AREA D

SCALE: 1/4" = 1'-0"



BASEMENT FLOOR - MECHANICAL PLAN - AREA E

SCALE: 1/4" = 1'-0"

HVAC PIPING GENERAL NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, SHEET METAL, OTHER PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.
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3. PIPING AND DUCTWORK SHALL NOT BE INSTALLED ABOVE ELECTRICAL TRANSFORMERS, SWITCHBOARDS, PANELBOARDS OR MOTOR CONTROL CENTERS.
4. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
5. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
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SHEET METAL GENERAL NOTES:

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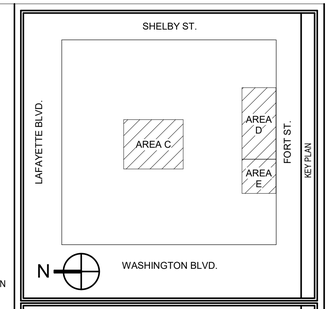

GRAPHIC SCALE: 1/4"=1'-0" 0 4' 8'

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

DESIGNER IDENTIFICATION
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PBA Project No.: 2021-0206

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BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	RLT
CHECKED BY	DC
FLOOR NO.	BASEMENT
DISCIPLINE	MECHANICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	M100B

SHEET

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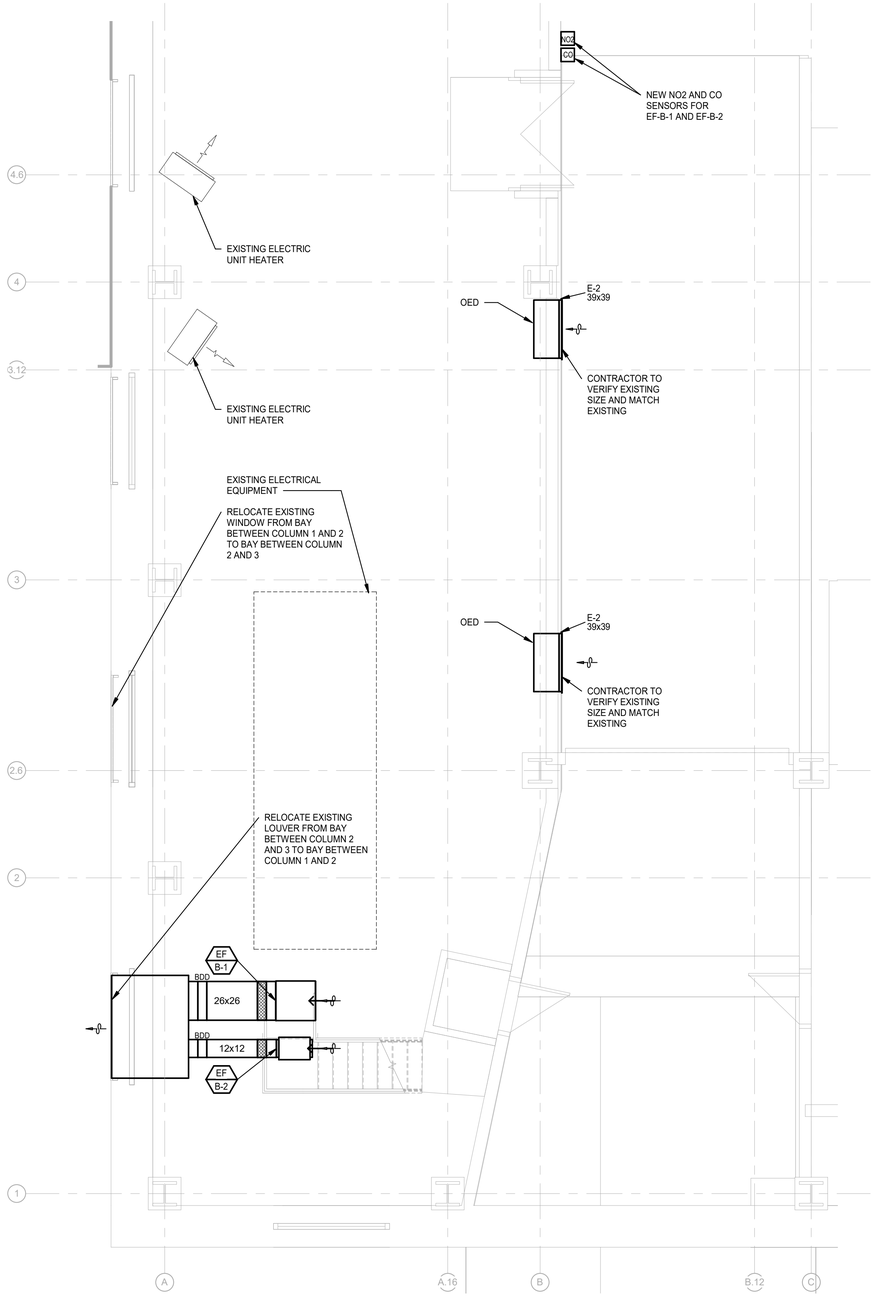

BASEMENT FLOOR - MECHANICAL PLAN - AREA F

SCALE: 1/4" = 1'-0"

HVAC PIPING GENERAL NOTES:

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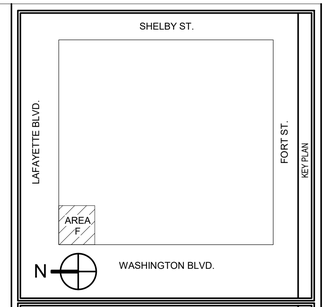

KEY PLAN

1/4"=1'-0" 0 4" 8"

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
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BUILDING NO.	MI0029ZZ

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PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	RLT
CHECKED BY	DC
FLOOR NO.	BASEMENT
DISCIPLINE	MECHANICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	M100C

SHEET

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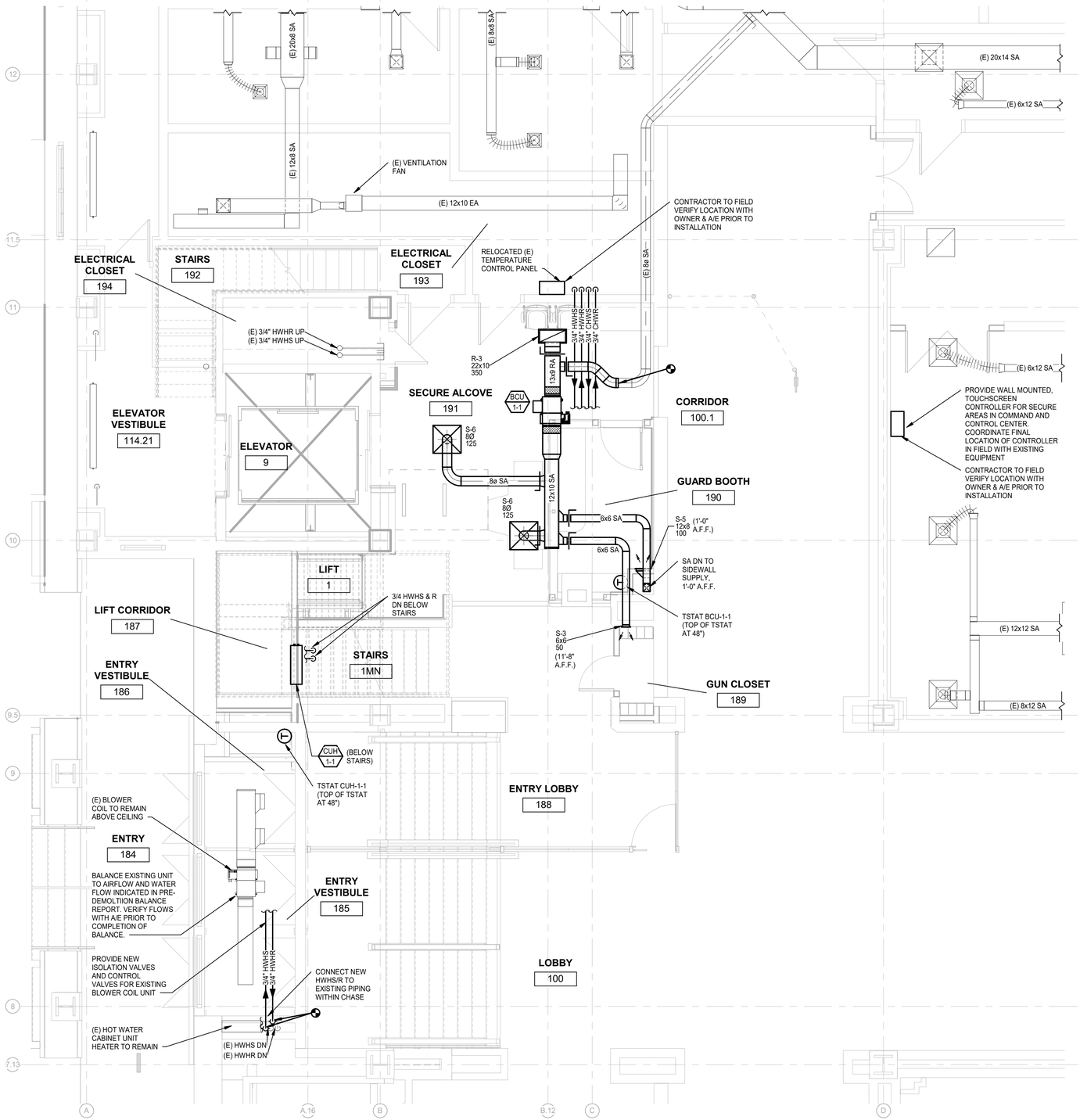

FIRST FLOOR - NORTH LAFAYETTE MECHANICAL PLAN - AREA A

SCALE: 1/4" = 1'-0"

SHEET METAL GENERAL NOTES:

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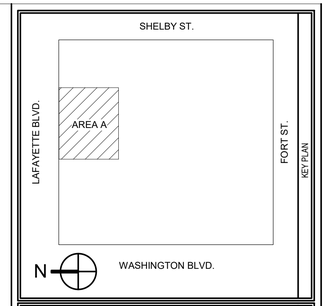

KEY PLAN

1/4"=1'-0" 0 4" 8"

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

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BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	RLT
CHECKED BY	DC
FLOOR NO.	FIRST FLOOR
DISCIPLINE	MECHANICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	M101A

SHEET

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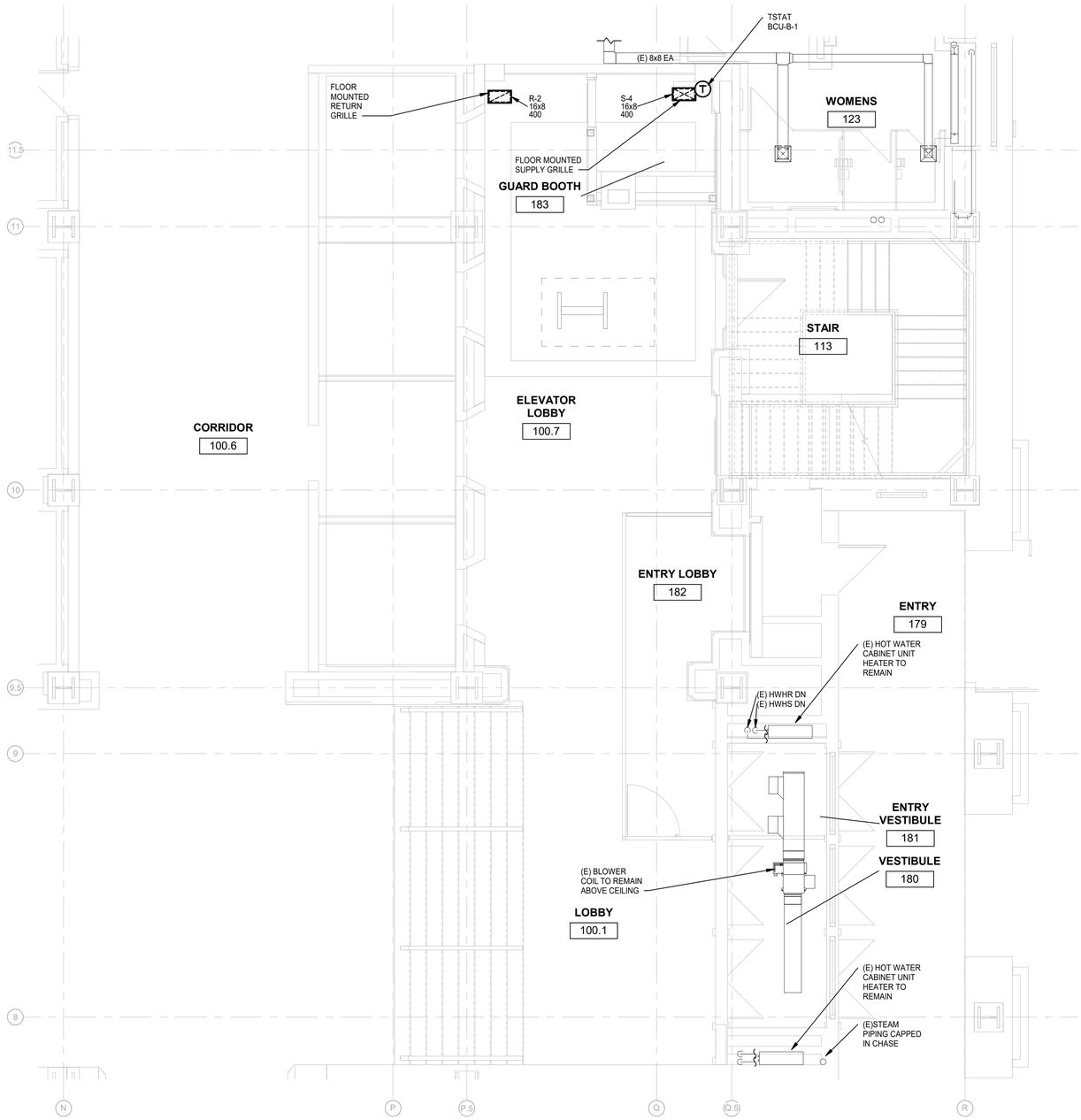

FIRST FLOOR - SOUTH FORT STREET MECHANICAL PLAN

SCALE: 1/4" = 1'-0"

SHEET METAL GENERAL NOTES:

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5. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
6. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONED LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.
7. REFER TO TEMPERATURE CONTROLS STANDARD MOUNTING HEIGHTS DETAIL FOR ELEVATIONS OF WALL MOUNTED TEMPERATURE CONTROL DEVICES.

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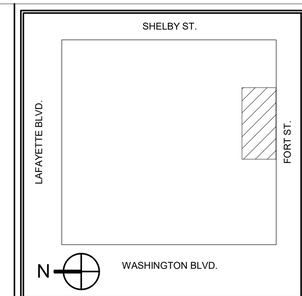

KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No: 2021-0206

CONSULTANT IDENTIFICATION

STATE OF MICHIGAN
DAVID ANTHONY CONRAD
ENGINEER
No. 62010555580
LICENSED PROFESSIONAL ENGINEER

STAMP OR SEAL

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	RLT
CHECKED BY	DC
FLOOR NO.	FIRST FLOOR
DISCIPLINE	MECHANICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	M101B

SHEET

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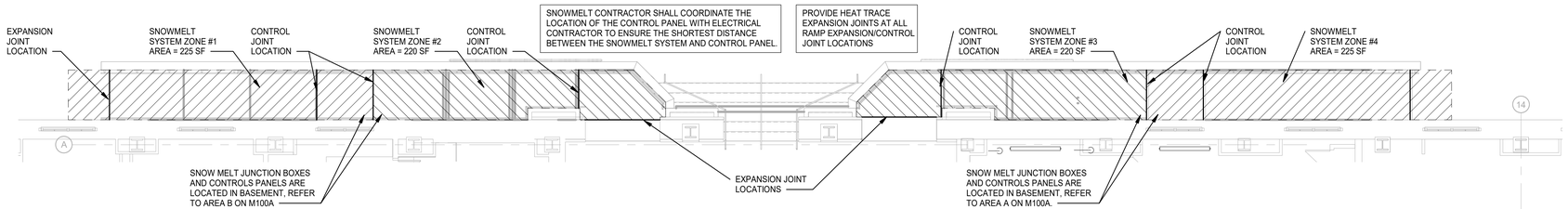

FIRST FLOOR - EXTERIOR RAMP MECHANICAL PLAN

SCALE: 1/8" = 1'-0"

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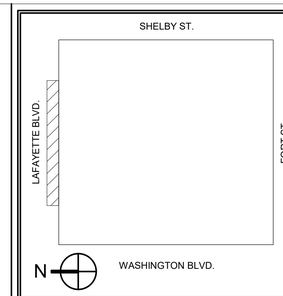

KEY PLAN

1/8"=1'-0" 0 8' 16'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

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DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

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STAMP OR SEAL

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CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	RLT
CHECKED BY	DC
FLOOR NO.	FIRST FLOOR
DISCIPLINE	MECHANICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	M101C

SHEET

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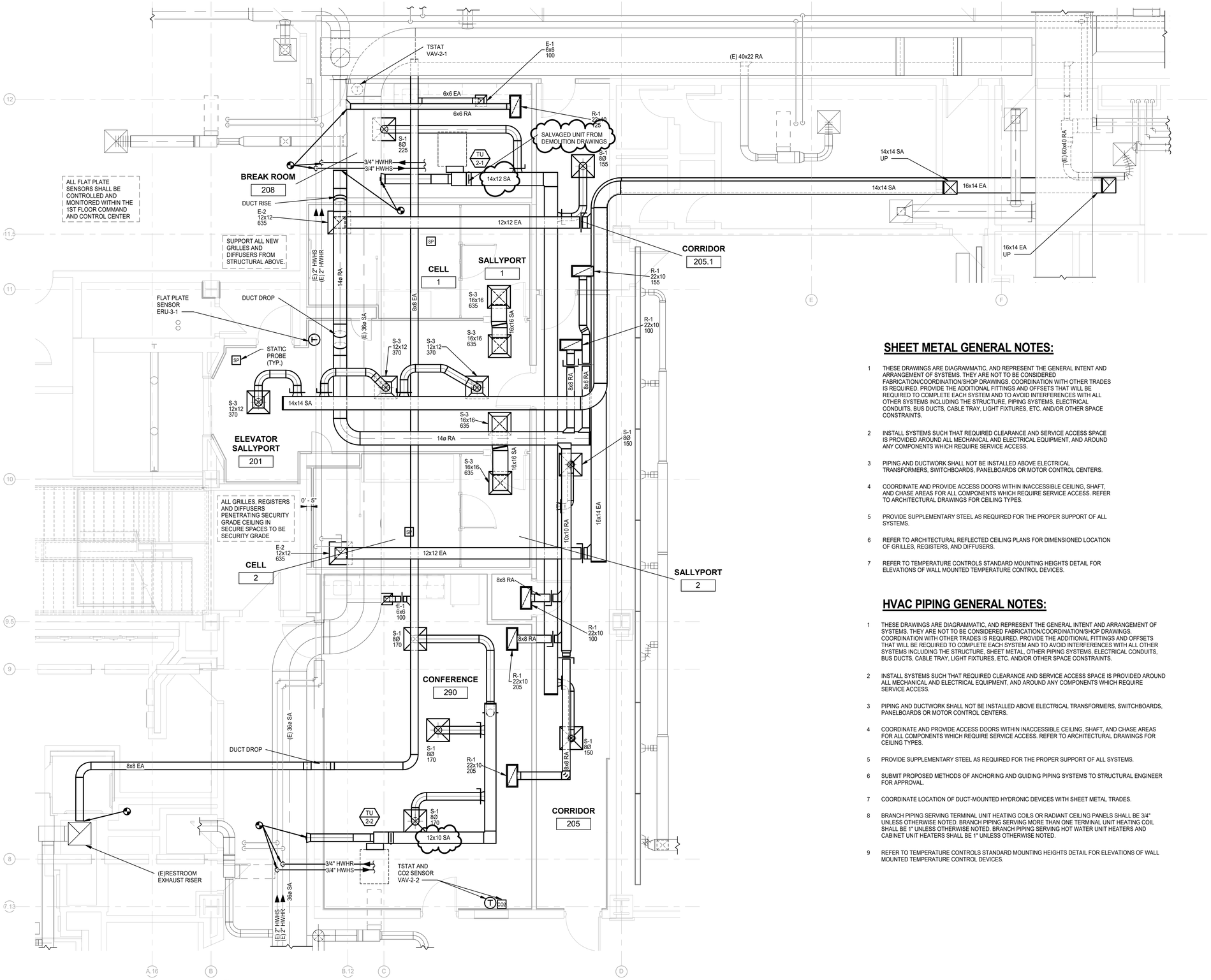

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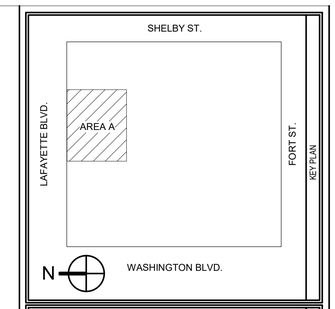
SECOND FLOOR - OPTION 1 MECHANICAL PLAN A

SCALE: 1/4" = 1'-0"



KEY PLAN

GRAPHIC SCALE 1/4"=1'-0" 0 4' 8'

MARK	DATE	DESCRIPTION
1	2/15/2023	100% REVISION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

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BUILDING NO.	MI0029ZZ

BUILDINGS

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	RLT
CHECKED BY	DC
FLOOR NO.	SECOND FLOOR
DISCIPLINE	MECHANICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	M102

SHEET

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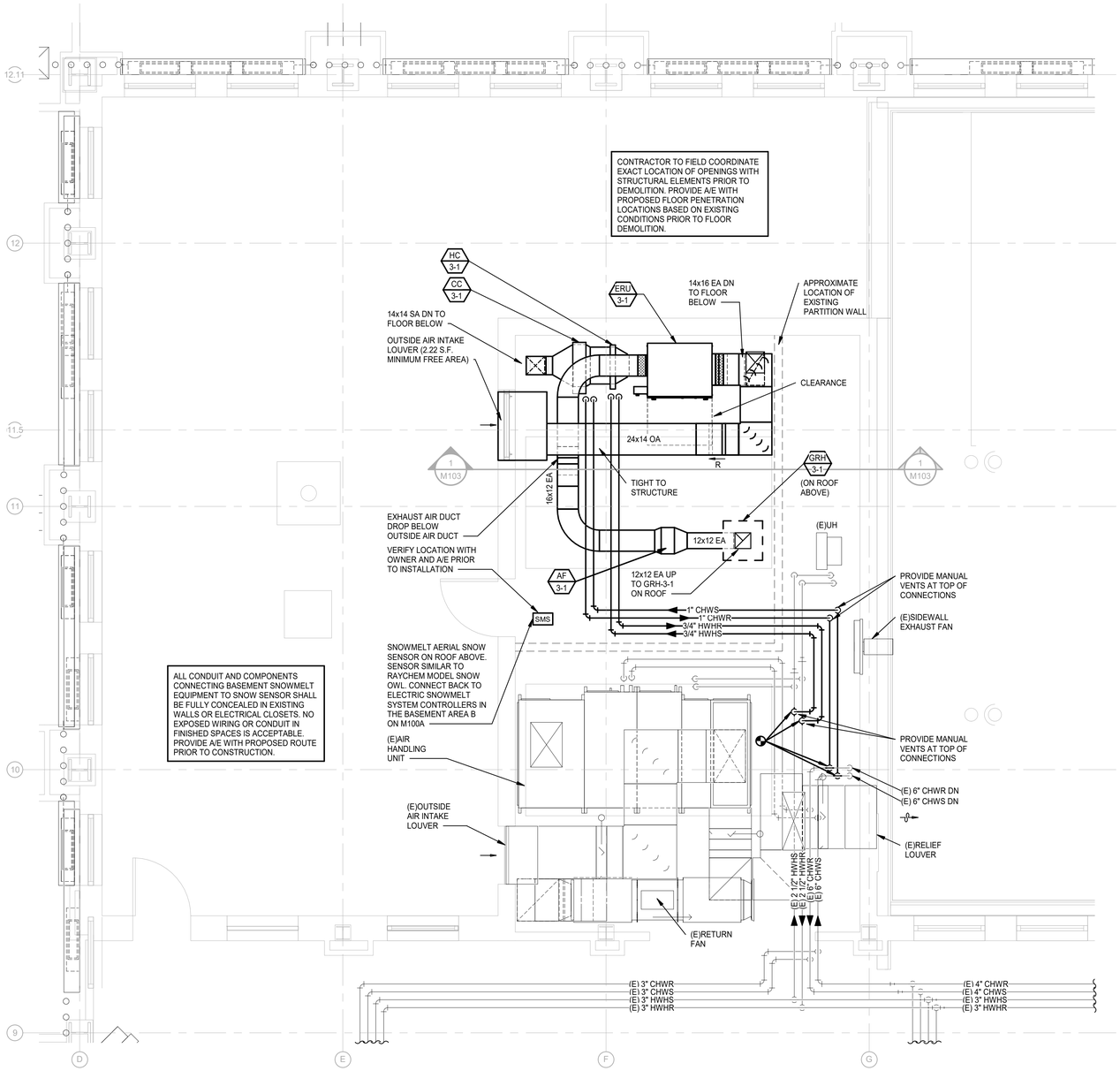

THIRD FLOOR - OPTION 1 MECHANICAL PLAN

SCALE: 1/4" = 1'-0"

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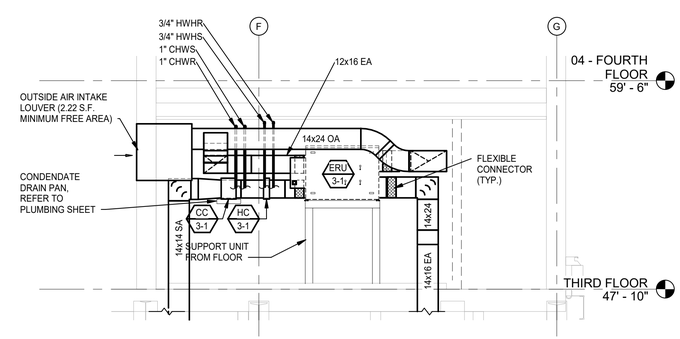
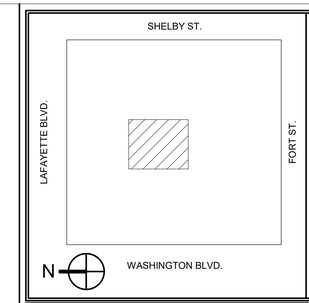


MECHANICAL SECTION 1

1 / M103

SCALE: 1/4" = 1'-0"



KEY PLAN

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BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	RLT
CHECKED BY	DC
FLOOR NO.	THIRD FLOOR
DISCIPLINE	MECHANICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	M103

SHEET

2/10/2023 8:56:24 AM C:\REVIT LOCAL FILES\MI0029ZZ_M_B-10_C_abrown@pbanet.com.rvt

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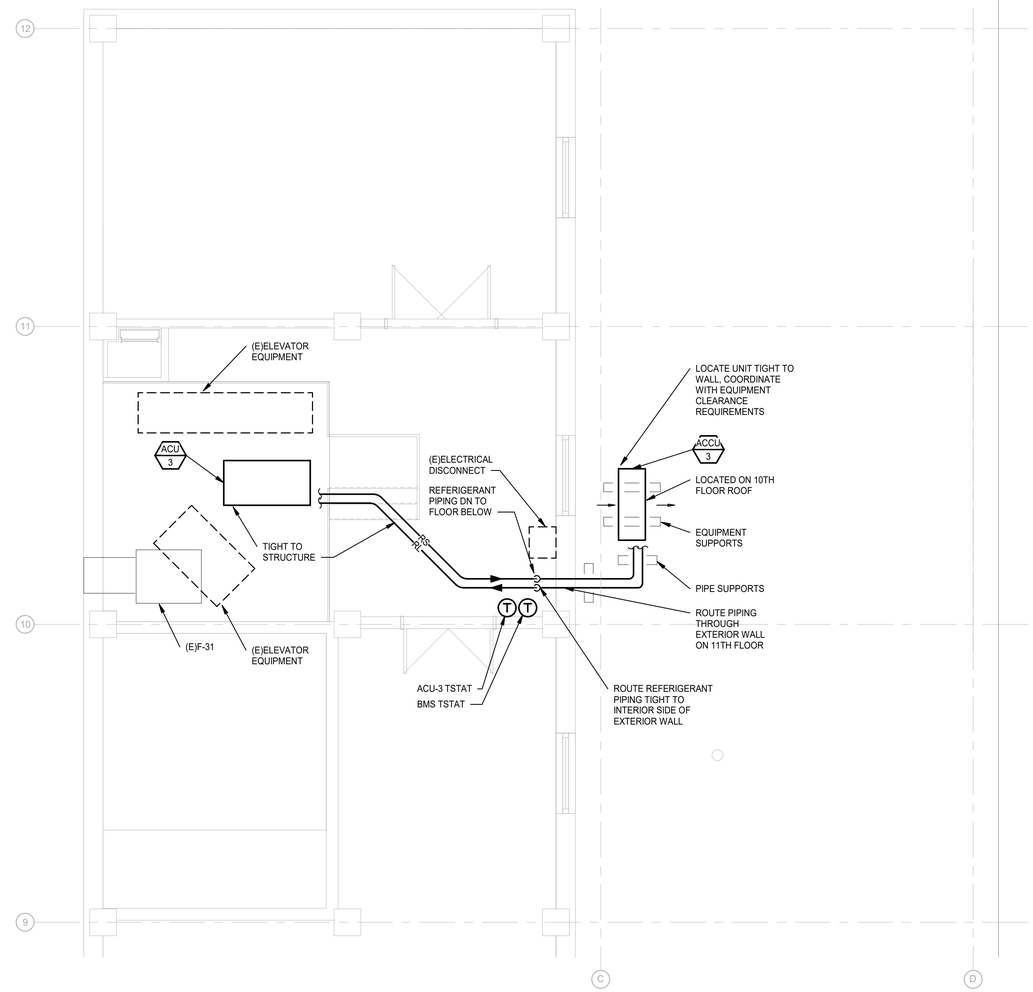


TWELFTH FLOOR ELEVATOR 9 - MECHANICAL NEW WORK PLAN

SCALE: 1/4" = 1'-0"

SHEET METAL GENERAL NOTES:

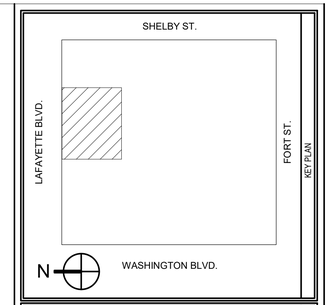
1. THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. PIPING AND DUCTWORK SHALL NOT BE INSTALLED ABOVE ELECTRICAL TRANSFORMERS, SWITCHBOARDS, PANELBOARDS OR MOTOR CONTROL CENTERS.
4. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
5. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
6. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONED LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.
7. REFER TO TEMPERATURE CONTROLS STANDARD MOUNTING HEIGHTS DETAIL FOR ELEVATIONS OF WALL MOUNTED TEMPERATURE CONTROL DEVICES.

HVAC PIPING GENERAL NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, SHEET METAL, OTHER PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. PIPING AND DUCTWORK SHALL NOT BE INSTALLED ABOVE ELECTRICAL TRANSFORMERS, SWITCHBOARDS, PANELBOARDS OR MOTOR CONTROL CENTERS.
4. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
5. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
6. SUBMIT PROPOSED METHODS OF ANCHORING AND GUIDING PIPING SYSTEMS TO STRUCTURAL ENGINEER FOR APPROVAL.
7. COORDINATE LOCATION OF DUCT-MOUNTED HYDRONIC DEVICES WITH SHEET METAL TRADES.
8. BRANCH PIPING SERVING TERMINAL UNIT HEATING COILS OR RADIANT CEILING PANELS SHALL BE 3/4" UNLESS OTHERWISE NOTED. BRANCH PIPING SERVING MORE THAN ONE TERMINAL UNIT HEATING COIL SHALL BE 1" UNLESS OTHERWISE NOTED. BRANCH PIPING SERVING HOT WATER UNIT HEATERS AND CABINET UNIT HEATERS SHALL BE 1" UNLESS OTHERWISE NOTED.
9. REFER TO TEMPERATURE CONTROLS STANDARD MOUNTING HEIGHTS DETAIL FOR ELEVATIONS OF WALL MOUNTED TEMPERATURE CONTROL DEVICES.

CONSTRUCTION KEYED NOTES:

1. PROVIDE DUCT MOUNTED MAN BARS AT WALL PENETRATION. REFER TO RETURN/SUPPLY AIR DUCT PENETRACTION AND HVAC DUCT MANBAR ELEVATION ON M603.
2. SLAB SENSOR FOR SNOWMELT SYSTEM, COORDINATE LOCATION WITH SNOW/ICE SENSOR AND INSTALL PER MANUFACTURERS GUIDELINES.
3. SNOW/ICE SENSOR COORIDNATION LOCAITON WITH SLAB SENSOR. INSTALL SENSOR PER MANUFACTURERS GUIDELINES.
4. ROUTE 3 CONDUCTOR, 18 GA WIRE FROM APC-4C IN AREA B TO SC-40 CONTROLLER IN AREA A.
5. ROUTE 3 CONDUCTOR, 18 GA WIRE FROM APC-4C IN AREA B OF BASEMENT TO AERIAL SNOW SENSOR ON 3RD FLOOR MECHANICAL ROOM ROOF, REFER TO M103.



KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION
1	2/15/2023	100% REVISION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

CONSULTANT IDENTIFICATION

STATE OF MICHIGAN
DAVID ANTHONY CONRAD
ENGINEER
No. 6201055589
LICENSED PROFESSIONAL ENGINEER

STAMP OR SEAL

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

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CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	RLT
CHECKED BY	DC
FLOOR NO.	TWELFTH
DISCIPLINE	MECHANICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	M104

SHEET

2/10/2023 8:56:30 AM C:\REVIT LOCAL FILES\MI0029ZZ_M_B-10_C_abrown@pbasnet.com.rvt

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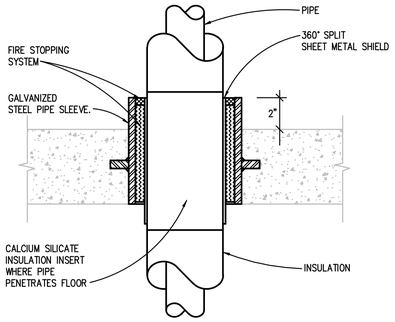
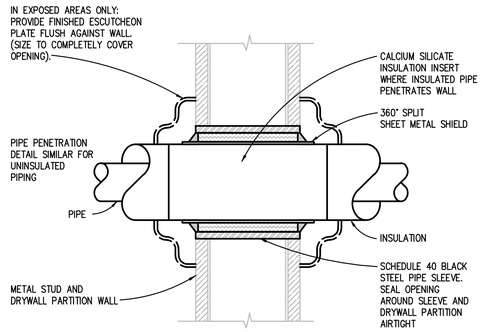
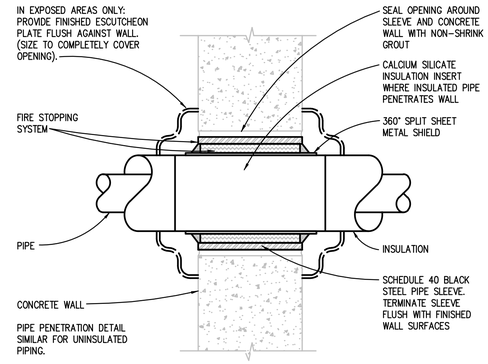


NEW FLOOR PIPE PENETRATION DETAIL
NO SCALE



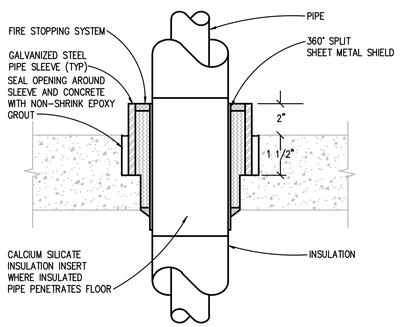
DETAIL INDICATES THE INSTALLATION REQUIREMENTS FOR A FIRE RATED ASSEMBLY. FOR A NON-FIRE RATED ASSEMBLY PACK SLEEVED OPENING WITH INSULATION MATERIAL AND CAULK WITH NON-HARDENING SEALANT.

FIRE RATED AND NON-FIRE RATED METAL STUD AND DRYWALL PARTITION WALL PIPE PENETRATION DETAIL
NO SCALE



DETAIL INDICATES THE INSTALLATION REQUIREMENTS FOR A FIRE RATED ASSEMBLY. FOR A NON-FIRE RATED ASSEMBLY PACK SLEEVED OPENING WITH INSULATION MATERIAL AND CAULK WITH NON-HARDENING SEALANT.

FIRE RATED AND NON-FIRE RATED POURED CONCRETE OR BLOCK WALL PIPE PENETRATION DETAIL
NO SCALE



EXISTING FLOOR PIPE PENETRATION DETAIL
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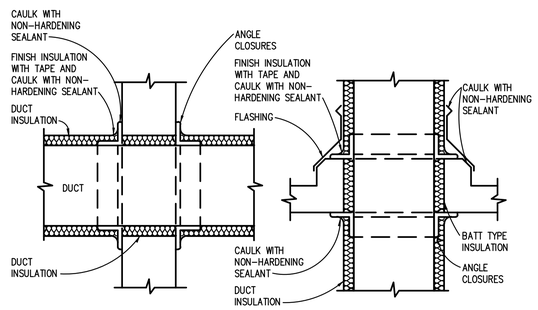
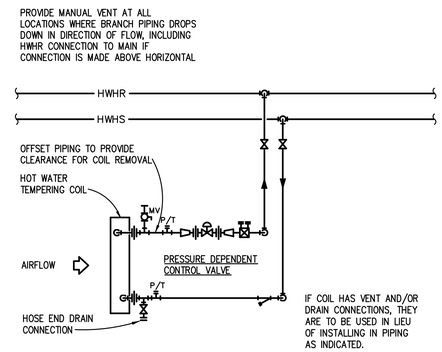
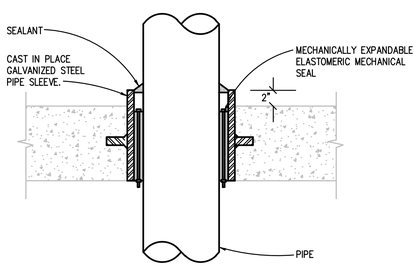


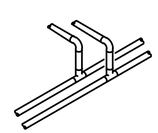
VERTICAL OR HORIZONTAL (NON FIRE RATED ASSEMBLY) DUCT PENETRATION DETAIL
NO SCALE



HOT WATER TEMPERING COIL WITH TWO-WAY CONTROL VALVE PIPING DIAGRAM
NO SCALE

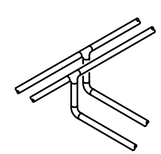


NEW SLAB ON GRADE FLOOR PIPE PENETRATION DETAIL
NO SCALE



BRANCH CONNECTION OFF TOP

APPLIES TO THE FOLLOWING SYSTEMS:
DOMESTIC WATER

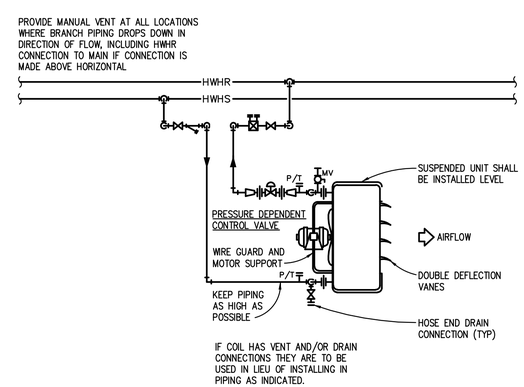


BRANCH CONNECTION OFF BOTTOM

APPLIES TO THE FOLLOWING SYSTEMS:
HOT WATER HEATING
CHILLED WATER

NOTE: BOTTOM AS INDICATED OR SIDE CONNECTION IS ACCEPTABLE. CONNECTION ABOVE CENTERLINE OF MAINS IS NOT ACCEPTABLE.

TYPICAL BRANCH TAKE-OFF CONNECTION PIPING DETAIL
NO SCALE



HOT WATER UNIT HEATER WITH TWO-WAY CONTROL VALVE PIPING DIAGRAM
NO SCALE

MARK	DATE	DESCRIPTION

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
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PBA Project No.: 2021-0206

STATE OF MICHIGAN
DAVID ANTHONY CONRAD
ENGINEER
No. 6201055589
LICENSED PROFESSIONAL ENGINEER

General Services Administration
Public Buildings Service
Great Lakes
Design and Construction,
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BUILDING NO.	MI0029ZZ
PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023
DRAWN BY	RLT
CHECKED BY	DC
FLOOR NO.	N/A
DISCIPLINE	MECHANICAL
PLAN TYPE	DETAILS
SHEET NUMBER AND FILENAME	M601

KEY PLAN | GRAPHIC SCALE | REVISION BLOCK | CONTRACT | DESIGNER IDENTIFICATION | CONSULTANT IDENTIFICATION | STAMP OR SEAL | OWNER IDENTIFICATION | BUILDING | PROJECT | SHEET

g:\2021\2021-0206-00\CAD\2021-0206-M6-01.dwg, M601, 2/10/2023 8:55:57 AM, Alex Brown, Peter Basso Associates Inc.

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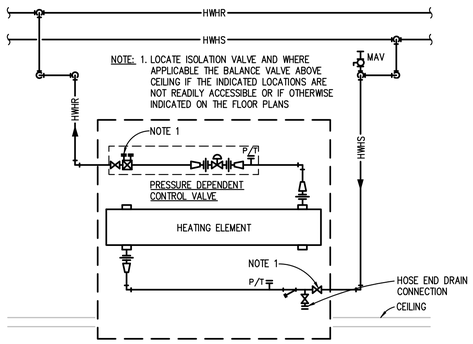
PROVIDE MANUAL VENT AT ALL LOCATIONS WHERE BRANCH PIPING DROPS DOWN IN DIRECTION OF FLOW, INCLUDING HWHR CONNECTION TO MAIN IF CONNECTION IS MADE ABOVE HORIZONTAL

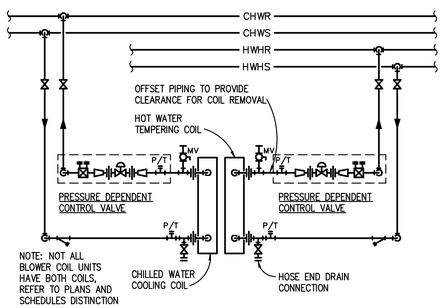


DOWNFEED CUH WITH TWO-WAY CONTROL VALVE PIPING DIAGRAM

NO SCALE

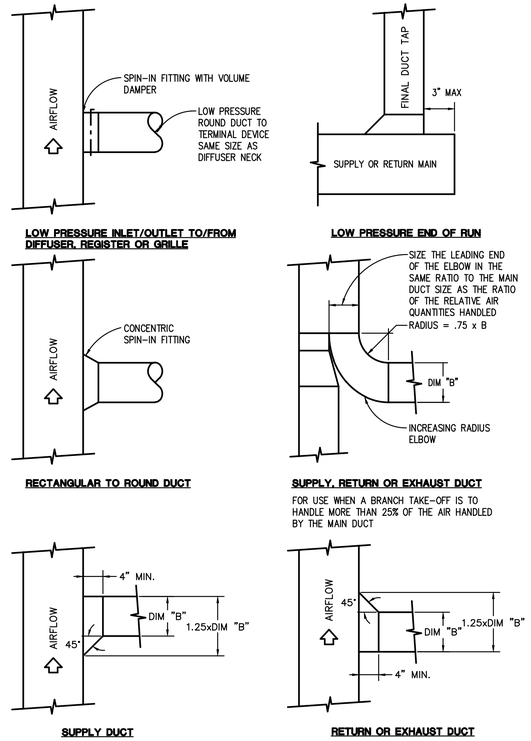
PROVIDE MANUAL VENT AT ALL LOCATIONS WHERE BRANCH PIPING DROPS DOWN IN DIRECTION OF FLOW, INCLUDING HWHR CONNECTION TO MAIN IF CONNECTION IS MADE ABOVE HORIZONTAL

IF COIL HAS VENT AND/OR DRAIN CONNECTIONS, THEY ARE TO BE USED IN LIEU OF INSTALLING IN PIPING AS INDICATED.



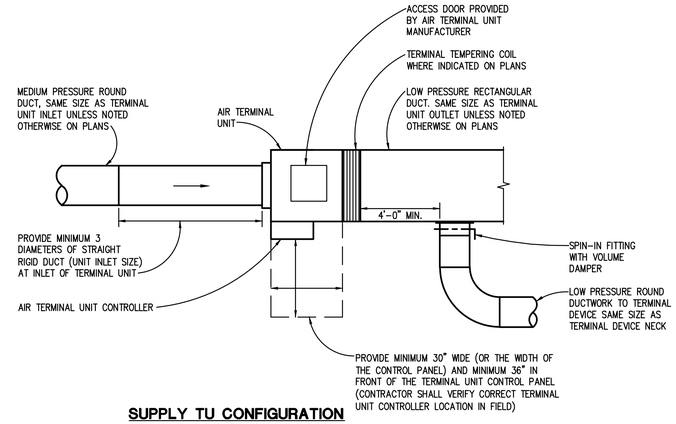
BLOWER COIL UNIT PIPING DIAGRAM

NO SCALE

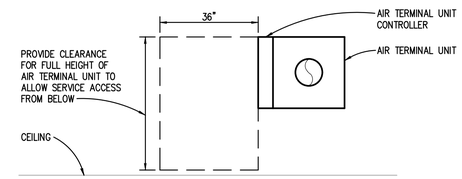


RECTANGULAR DUCT BRANCH TAKE-OFF DETAILS

NO SCALE



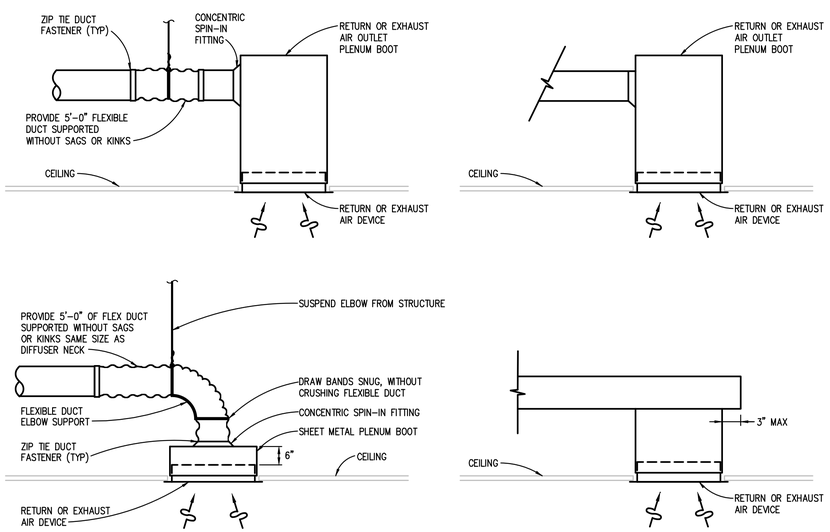
SUPPLY TU CONFIGURATION



TERMINAL UNIT SECTION

AIR TERMINAL UNIT (TU) DETAIL

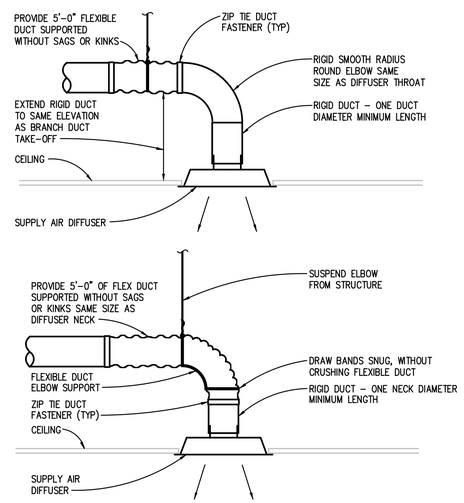
NO SCALE



RETURN OR EXHAUST AIR DEVICE INSTALLATION DETAIL

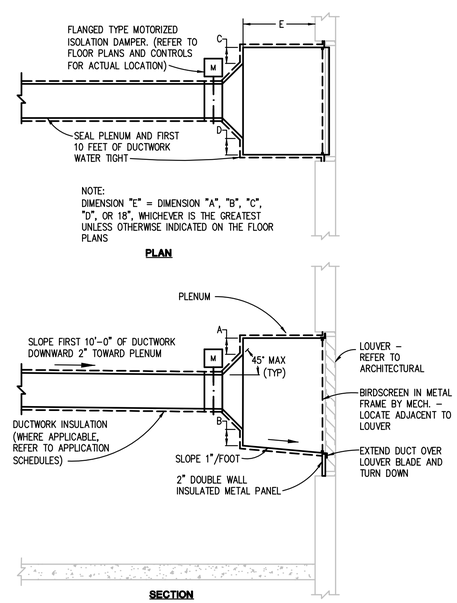
NO SCALE

NOTE: PAINT INTERIOR SURFACE OF PLENUM BOX FLAT BLACK.



ROUND NECK SUPPLY AIR DIFFUSER DETAIL

NO SCALE



OUTDOOR AIR INTAKE OR EXHAUST/RELIEF PLENUM DETAIL

NO SCALE

KEY PLAN

GRAPHIC SCALE

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

Peter Basso Associates Inc
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Troy, Michigan 48098-3276
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PBA Project No.: 2021-0206

STAMP OR SEAL

STATE OF MICHIGAN
DAVID ANTHONY CONRAD
ENGINEER
No. 6201055589
LICENSED PROFESSIONAL ENGINEER

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GSA
General Services Administration
Public Buildings Service
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Project Delivery Division
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BUILDING

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BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	RLT
CHECKED BY	DC
FLOOR NO.	N/A
DISCIPLINE	MECHANICAL
PLAN TYPE	DETAILS
SHEET NUMBER AND FILENAME	M602

g:\2021\2021-0206-00\CAD\2021-0206-M6-DT.dwg, M602, 2/10/2023 8:56:04 AM, Alex Brown, Peter Basso Associates Inc.

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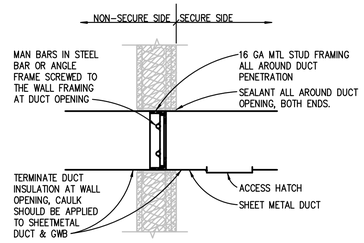
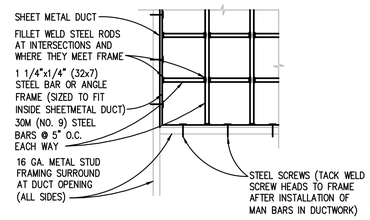


NOTE: DUCTS OVER 96 SQUARE INCHES THAT PENETRATE THE PERIMETER WALL MUST HAVE MAN BARS INSTALLED AT THE POINT OF ENTRY. MAN BARS SHALL BE SPACED AND WELDED AT 5" O.C. EACH WAY (SEE MAN BAR DETAIL). A 12"x12" INSPECTION PORT AND ACCESS HATCH MUST BE INSTALLED ON THE SECURE SIDE OF THE PARTITION. ENSURE ACCESS HATCH OPENS A MINIMUM OF 90 DEGREES AND IS NOT OBSTRUCTED. COORDINATE LOCATION WITH CEILING GRID, LIGHTS, PIPES, CONDUITS, AND OTHER DUCTS, ETC.

RETURN/SUPPLY AIR DUCT PENETRATION (#1)

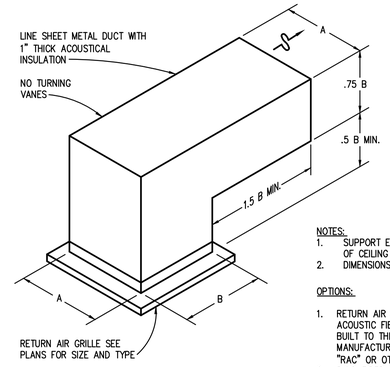
NO SCALE



NOTE:
1. MAN BARS IN STEEL BAR OR ANGLE FRAME SCREWED TO THE WALL FRAMING AT DUCT OPENING.
2. MAN BARS REQUIRED FOR DUCT OPENINGS GREATER THAN 96 SQ INCHES.
3. IF CODE REQUIRES THE INSTALLATION OF A FIRE DAMPER, INTEGRITY OF MAN BARS SHALL BE MAINTAINED.

HVAC DUCT MANBAR ELEVATION (#2)

NO SCALE



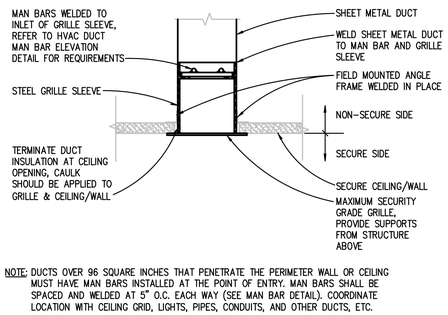
NOTES:
1. SUPPORT ELBOW INDEPENDENT OF CEILING GRID
2. DIMENSIONS ARE INSIDE CLEAR

OPTIONS:
1. RETURN AIR CANOPY: GALVANIZED STEEL WITH ACOUSTIC FIBERGLASS LINER. UNIT SHALL BE BUILT TO THE RETURN GRILLE SIZE, AS MANUFACTURED BY PRICE INDUSTRIES-MODEL "RAC" OR OTHER APPROVED.
2. RIGID FIBER BOARD IN LIEU OF LINED SHEET METAL DUCT.

CEILING GRILLE TO/FROM PLENUM

PLENUM RETURN AIR GRILLE DETAILS

NO SCALE



NOTE: DUCTS OVER 96 SQUARE INCHES THAT PENETRATE THE PERIMETER WALL OR CEILING MUST HAVE MAN BARS INSTALLED AT THE POINT OF ENTRY. MAN BARS SHALL BE SPACED AND WELDED AT 5" O.C. EACH WAY (SEE MAN BAR DETAIL). COORDINATE LOCATION WITH CEILING GRID, LIGHTS, PIPES, CONDUITS, AND OTHER DUCTS, ETC.

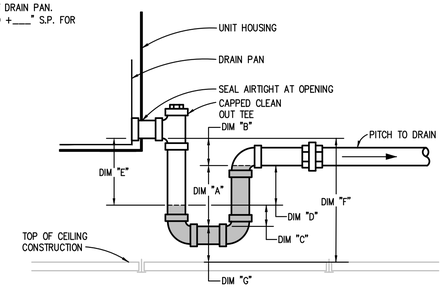
SUPPLY/EXHAUST MAXIMUM SECURITY GRILLE PENETRATION THROUGH SECURE CEILING/WALL

NO SCALE

TRAP DIMENSION TABLE

TYPE OF SYSTEM	S.P. AT DRAIN PAN (IN.) (NOTE A)	DIMENSION "A" (INCHES) MIN.	DIMENSION "B" (INCHES)	DIMENSION "C" (INCHES) (TRAP SEAL)	DIMENSION "D" (INCHES)	DIMENSION "E" (INCHES)	DIMENSION "F" (INCHES) DRAIN PIPE SIZE (INCHES)			
							1 1/2	2	2 1/2, 3	4
BLOW THROUGH	UP TO +2	4.0	2.0	2	2	4	9.0	10.0	11.0	12.0
	+2.1 TO +3	5.0	2.0	2	3	5	10.0	11.0	12.0	13.0

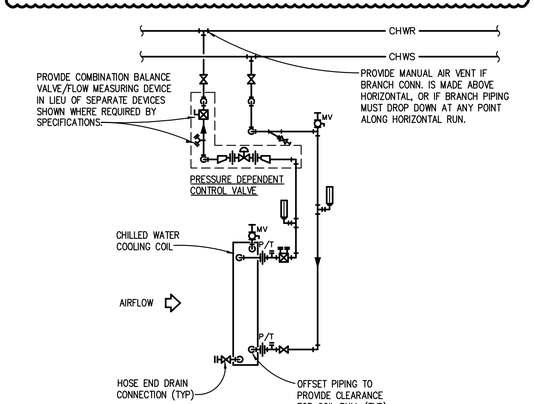
NOTES:
A. REFER TO EQUIPMENT SCHEDULES FOR (–) OR (+) STATIC PRESSURE AT DRAIN PAN.
A. BASE TRAP DIMENSIONS ON –____" S.P. FOR DRAW THROUGH UNITS AND +____" S.P. FOR BLOW THROUGH UNITS.
B. DRAIN PIPE SIZE SHALL BE SIZE OF DRAIN PAN OUTLET, MINIMUM 1".
C. DIMENSION "G" IS MIN: 3" FOR UP TO 1 1/2" DRAIN PIPE
4" FOR 2" DRAIN PIPE
5" FOR 2 1/2" OR 3" DRAIN PIPE
6" FOR 4" DRAIN PIPE



BLOW THROUGH

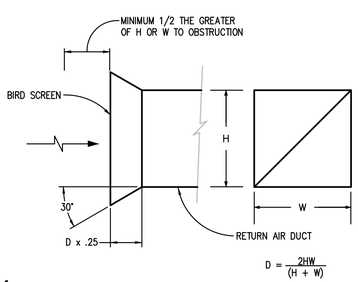
CONDENSATE DRAIN PAN TRAP DETAIL (UNITARY UNITS ABOVE CEILING)

NO SCALE



ERU CHILLED WATER COOLING COIL WITH TWO-WAY CONTROL VALVE PIPING DIAGRAM

NO SCALE



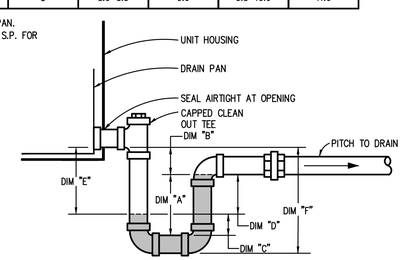
BELLMOUTH DETAIL

NO SCALE

TRAP DIMENSION TABLE

TYPE OF SYSTEM	S.P. AT DRAIN PAN (IN.) (NOTE A)	DIMENSION "A" (INCHES) MIN.	DIMENSION "B" (INCHES)	DIMENSION "C" (INCHES) (TRAP SEAL)	DIMENSION "D" (INCHES)	DIMENSION "E" (INCHES)	DIMENSION "F" (INCHES) (+/–) DRAIN PIPE SIZE (INCHES)			
							1 TO 1–1/2	2	2 1/2, 3	4
BLOW THROUGH	UP TO +2	4.0	2.0	2	2	4	7.0–7.5	8.0	8.5–9.0	10.0
	+2.1 TO +3	5.0	2.0	2	3	5	8.0–8.5	9.0	9.5–10.0	11.0

NOTES:
A. REFER TO EQUIPMENT SCHEDULES FOR (–) OR (+) STATIC PRESSURE AT DRAIN PAN.
A. BASE TRAP DIMENSIONS ON –____" S.P. FOR DRAW THROUGH UNITS AND +____" S.P. FOR BLOW THROUGH UNITS.
B. DRAIN PIPE SIZE SHALL BE SIZE OF DRAIN PAN OUTLET, MINIMUM 1".
C. DIMENSION "G" IS MIN: 3" FOR UP TO 1 1/2" DRAIN PIPE
4" FOR 2" DRAIN PIPE
5" FOR 2 1/2" OR 3" DRAIN PIPE
6" FOR 4" DRAIN PIPE



BLOW THROUGH

CONDENSATE DRAIN PAN TRAP DETAIL (UNITARY UNITS NOT ABOVE CEILING)

NO SCALE

KEY PLAN

GRAPHIC SCALE

REVISION BLOCK

MARK	DATE	DESCRIPTION
1	2/15/2023	100% REVISION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

STAMP OR SEAL

STATE OF MICHIGAN
DAVID ANTHONY CONRAD
ENGINEER
No. 6201055589
LICENSED PROFESSIONAL ENGINEER

OWNER IDENTIFICATION

General Services Administration
Public Buildings Service
Great Lakes
Design and Construction,
Project Delivery Division
John C. Kluczynski Federal Building
230 South Dearborn St.
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	RLT
CHECKED BY	DC
FLOOR NO.	N/A
DISCIPLINE	MECHANICAL
PLAN TYPE	DETAILS
SHEET NUMBER AND FILENAME	M603

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ABOVEGROUND HVAC PIPING & VALVE APPLICATION SCHEDULE

	MATERIAL							CONNECTION								ISOLATION VALVES				
PIPE SIZE (INCHES)	SOFT COPPER TYPE K	HARD COPPER TYPE L	HARD COPPER TYPE M	CARBON STEEL (SCHED. 40)	CARBON STEEL (SCHED. 80)	CARBON STEEL (STD.)	COPPER TYPE DWV	SOLDERED	BRAZED	WELDED	THREADED	FLANGED	GROOVED	PRESSURE SEAL	MECHANICALLY FORMED TEE	BALL	GENERAL SERVICE BUTTERFLY	HI-PERF BUTTERFLY	GATE	KEYED NOTES
CHILLED WATER SUPPLY & RETURN - MIN. WORKING PRESS. & TEMP. 125 PSIG AT 200 DEG F																				
UP TO 2				X							X					X				
UP TO 2		X						X	X					X	X	X				
HEATING HOT WATER SUPPLY & RETURN - MIN. WORKING PRESS. & TEMP. 125 PSIG AT 200 DEG F																				
UP TO 2				X							X					X				
UP TO 2		X						X	X					X	X	X				

GENERAL NOTES

1. "X" INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A PIPING SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.
2. DISSIMILAR-METAL PIPING JOINTS: CONSTRUCT JOINTS USING DIELECTRIC FITTINGS COMPATIBLE WITH BOTH PIPING MATERIALS. IF A BRONZE VALVE CONNECTS THE DISSIMILAR METALS NO FURTHER DIELECTRIC ISOLATION IS REQUIRED.

   a. NPS 2 AND SMALLER: USE BRASS COUPLING, NIPPLE, OR UNION.
   b. NPS 2-1/2 AND LARGER: USE DIELECTRIC FLANGE KITS.

3. USE UNIONS OR FLANGES AT VALVE AND EQUIPMENT CONNECTIONS.
4. HVAC EQUIPMENT DRAINS, VENTS, SAFETY VALVE PIPING, BLOWDOWN PIPING AND THE LIKE SHALL BE SAME PIPING MATERIAL AS ASSOCIATED PIPING SYSTEM.

ABOVEGROUND HVAC PIPE & ACCESSORY INSULATION APPLICATION SCHEDULE

	INSULATION MATERIAL & THICKNESS (INCHES)									FIELD-APPLIED JACKET MATERIAL			
	FLEXIBLE ELASTOMERIC	FIBERGLASS	MINERAL WOOL	POLYISOCYANURATE	PHENOLIC	CELLULAR GLASS	CALCIUM SILICATE	ALUMINUM	STAINLESS STEEL	PVC	SELF-ADHESIVE (FOR OUTDOOR APPLICATIONS)	PVDC (INDOOR)	PVDC (OUTDOOR)	KEYED NOTES
INDOOR PIPE SYSTEM AND SIZE (INCHES)													
CHILLED WATER & BRINE 40 DEG F to 60 DEG F:	1	1								X				A
HEATING HOT WATER SUPPLY & RETURN 200 DEG F AND LOWER													
NPS 1-1/4 AND SMALLER		1.5								X				A
NPS 1-1/2 AND LARGER		2								X				A
REFRIGERANT SUCTION & HOT GAS (RIGID COPPER)													
NPS 6 AND SMALLER	1	1						X		X				
NPS 8 AND LARGER	1.5	1.5						X		X				
REFRIGERANT SUCTION & HOT GAS (SOFT COPPER)	1							X		X				
OUTDOOR (ABOVEGROUND) AND TUNNEL PIPE SYSTEM AND SIZE (INCHES)													
REFRIGERANT SUCTION & HOT GAS (RIGID COPPER)	2.5	2.5						X			X			B
REFRIGERANT SUCTION & HOT GAS (SOFT COPPER)	2													B

UNLESS OTHERWISE INDICATED OR SCHEDULED, THE FOLLOWING DO NOT REQUIRE INSULATION:
DIRECT BURIED COOLING SYSTEM PIPING
PIPING THAT CONVEYS FLUIDS HAVING DESIGN OPERATING TEMPERATURE RANGE BETWEEN 60 DEG F. AND 105 DEG F., INCLUSIVE.

GENERAL NOTES

1. 'X' OR THICKNESS IN INCHES INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.
2. INSULATE PIPING WITHIN AIR HANDLING EQUIPMENT THE SAME AS INDOOR PIPING. PROVIDE ALUMINUM OR STAINLESS STEEL JACKET.
3. FOR PIPING NPS 1-1/4 AND SMALLER WITHIN PARTITIONS IN CONDITIONED SPACES INSULATION MAY BE REDUCED BY ONE-INCH THICKNESS, BUT NOT TO LESS THAN ONE-INCH THICKNESS.
4. FOR PIPING NPS 1 AND SMALLER, INSULATION IS NOT REQUIRED FOR STRAINERS, CONTROL VALVES, AND BALANCING VALVES.

KEYED NOTES

A. PROVIDE FIELD APPLIED JACKET FOR PIPING EXPOSED IN EQUIPMENT ROOMS, STORAGE ROOMS, JANITORS CLOSETS, RECEIVING ROOMS, TEST AREAS, CIRCULATION AREAS AND SUCH AREAS SUBJECT TO DAMAGE WITHIN 10 FEET (3 METERS) OF FINISHED FLOOR.
B. PROVIDE MANUFACTURER'S RECOMMENDED PROTECTIVE COATING FOR FLEXIBLE ELASTOMERIC THERMAL INSULATION.

PLUMBING PIPING & VALVE APPLICATION SCHEDULE

	MATERIAL															PRESSURE CONNECTIONS											GRAVITY DWV CONNECTIONS					ISOLATION VALVES					
PIPE SIZE (INCHES)	SOFT COPPER TYPE K	HARD COPPER TYPE L	HARD COPPER TYPE M	CARBON STEEL (SCHED. 40)	CARBON STEEL (STD.)	GALV. STEEL (SCHED. 40)	STAINLESS STEEL (SCHED. 10)	PEX	PE PIPE	PE SHEATHED CARBON STEEL PIPE	CSST	NO-HUB CISP	PVC TYPE DWV	PP DRAINAGE PIPE	COPPER TYPE DWV	DUCTILE IRON PIPE	SOLDERED	BRAZED	WELDED	THREADED	FLANGED	GROOVED	INSERT & CRIMP	FUSION	PRESSURE-SEAL	MECHANICALLY-FORMED TEE	MECHANICAL JOINT	PUSH-ON-JOINT	SOLVENT WELDED	SOLDERED	FUSION	CISP HUBLESS	HEAVY-DUTY HUBLESS	BALL	AGA BALL	GENERAL SERVICE BUTTERFLY	LUBRICATED PLUG	GATE	KEYED NOTES
ABOVEGROUND DOMESTIC WATER (POTABLE AND NON-POTABLE) ON DISTRIBUTION SIDE OF METER - MIN. WORKING PRESS. & TEMP. 125 PSIG AT 200 DEG F																																							
UP TO 4		X															X	X			X	X			X	X								X		X			A
4 AND LARGER							X															X														X			A
ABOVEGROUND SANITARY WASTE & VENT - MIN. WORKING PRESS. 10-FOOT HEAD OF WATER																																							
1-1/2 TO 15												X																				X							
UNDERGROUND SANITARY WASTE & VENT - MIN. WORKING PRESS. 10-FOOT HEAD OF WATER																																							
3 TO 12												X																					X						
3 TO 12													X																X										
ABOVEGROUND COLD CONDENSATE DRAIN - MIN. WORKING PRESSURE 10 FT. HEAD OF WATER																																							
ALL SIZES				X											X		X	X																					
ABOVEGROUND PUMPED COLD CONDENSATE DRAIN - MIN. WORKING PRESSURE 125 PSIG																																							
UP TO 2				X													X	X																X					
ABOVEGROUND FUEL GAS - MIN. WORKING PRESS. 100 PSIG																																							
UP TO 2					X														X	X															X				B

GENERAL NOTES

1. 'X' INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A PIPING SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.
2. DISSIMILAR-METAL PIPING JOINTS: CONSTRUCT JOINTS USING DIELECTRIC FITTINGS COMPATIBLE WITH BOTH PIPING MATERIALS.

   a. NPS 2 AND SMALLER: USE DIELECTRIC NIPPLE/WATERWAY.
   b. NPS 2-1/2 AND LARGER: USE DIELECTRIC FLANGE KITS.

3. USE UNIONS OR FLANGES AT VALVE AND EQUIPMENT CONNECTIONS.
4. PLUMBING EQUIPMENT DRAINS, VENTS, SAFETY VALVE PIPING, BLOWDOWN PIPING AND THE LIKE SHALL BE SAME PIPING MATERIAL AS ASSOCIATED PIPING SYSTEM.
5. GROOVED END VALVES MAY BE USED WITH GROOVED PIPING.

KEYED NOTES

A. GROOVED AND FLANGED FITTINGS, JOINTS, AND COUPLINGS, IF INDICATED AS AN ACCEPTABLE SELECTION, MAY BE USED IN ACCESSIBLE LOCATIONS ONLY FOR THIS PIPING SYSTEM. ACCESSIBLE LOCATIONS ARE DEFINED AS EXPOSED CONSTRUCTION OR ABOVE LAY-IN CEILINGS.
B. VALVES, UNIONS, AND FLANGED JOINTS MAY BE USED IN ACCESSIBLE LOCATIONS ONLY, EXCLUDING CEILINGS USED AS AIR PLENUMS. ACCESSIBLE LOCATIONS ARE DEFINED AS EXPOSED CONSTRUCTION OR ABOVE LAY-IN CEILINGS. USE ONLY STEEL WELDED FITTINGS AND WELDED JOINTS IN CEILING USED AS AIR PLENUMS.

ABOVEGROUND PLUMBING PIPE & ACCESSORY INSULATION APPLICATION SCHEDULE

	INSULATION MATERIAL & THICKNESS (INCHES)							FIELD-APPLIED JACKET MATERIAL					
	FLEXIBLE ELASTOMERIC	FIBERGLASS	MINERAL WOOL	POLYISOCYANURATE	PHENOLIC	CELLULAR GLASS	CALCIUM SILICATE	ALUMINUM	STAINLESS STEEL	PVC	SELF-ADHESIVE (FOR OUTDOOR APPLICATIONS)	PVDC (INDOOR)	PVDC (OUTDOOR)	KEYED NOTES
INDOOR PIPE SYSTEM AND SIZE (INCHES)													
DOMESTIC COLD WATER	1	1								X				A
DOMESTIC HOT WATER SUPPLY & RETURN 140 DEG F AND LESS:													
NPS 1-1/4 AND SMALLER	1	1								X				A
NPS 1-1/2 AND LARGER	1.5	1.5								X				A
CONDENSATE AND EQUIPMENT DRAIN PIPING BELOW 60 DEG F	0.75	1												

UNLESS OTHERWISE INDICATED OR SCHEDULED, DO NOT INSULATE THE FOLLOWING:
FIRE SUPPRESSION PIPING
UNDERGROUND PIPING
LABORATORY GAS AND VACUUM PIPING
MEDICAL GAS AND VACUUM PIPING
FUEL GAS PIPING
FUEL OIL PIPING

GENERAL NOTES

1. 'X' OR THICKNESS IN INCHES INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.
2. INSULATE PIPING WITHIN AIR HANDLING EQUIPMENT THE SAME AS INDOOR PIPING. PROVIDE ALUMINUM OR STAINLESS STEEL JACKET.

KEYED NOTES

A. PROVIDE FIELD APPLIED JACKET FOR PIPING EXPOSED IN EQUIPMENT ROOMS, STORAGE ROOMS, JANITORS CLOSETS, RECEIVING ROOMS, TEST AREAS, CIRCULATION AREAS AND SUCH AREAS SUBJECT TO DAMAGE, WITHIN 10 FEET (3 METERS) OF FINISHED FLOOR.

KEY PLAN

GRAPHIC SCALE

REVISION BLOCK

MARK	DATE	DESCRIPTION
1	2/15/2023	100% REVISION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

STAMP OR SEAL

STATE OF MICHIGAN
DAVID ANTHONY CONRAD
ENGINEER
No. 6201055589
LICENSED PROFESSIONAL ENGINEER

OWNER IDENTIFICATION

General Services Administration
Public Buildings Service
Great Lakes
Design and Construction,
Project Delivery Division
John C. Kluczynski Federal Building
230 South Dearborn St.
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	RLT
CHECKED BY	DC
FLOOR NO.	N/A
DISCIPLINE	MECHANICAL
PLAN TYPE	SCHEDULES
SHEET NUMBER AND FILENAME	M701

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VIBRATION ISOLATOR APPLICATION SCHEDULE

EQUIPMENT TYPE	EQUIPMENT CATEGORY	HORSEPOWER AND OTHER	RPM	EQUIPMENT LOCATION: SLAB ON GRADE: BASE TYPE	SLAB ON GRADE: ISOLATOR TYPE	SLAB ON GRADE: MIN. DEFL., IN. (MM)	UP TO 40 FT (12 M) FLOOR SPAN: BASE TYPE	UP TO 40 FT (12 M) FLOOR SPAN: ISOLATOR TYPE	UP TO 40 FT (12 M) FLOOR SPAN: MIN. DEFL., IN. (MM)	KEYED NOTES
SUSPENDED CENTRIFUGAL INLINE FANS	UP TO 22 IN. DIAMETER	ALL	ALL				A OR B	8a OR 8b	0.75 (19)	NOTES 1, 2, 3
SUSPENDED HEAT PUMPS, FAN COILS, CONDENSING UNITS, COMPUTER ROOM UNITS, LOCATED INDOORS.	ALL	ALL	ALL				A OR B	8a OR 8b	1.50 (38)	NOTES 1, 2, 3
SUSPENDED DUCTED ROTATING EQUIPMENT	SMALL FANS	≤600 CFM >600 CFM	ALL ALL				A A	8a OR 8b 8a OR 8b	0.50 (13) 0.75 (19)	NOTES 2, 3
PACKAGED AND MODULAR AIR HANDLING, AIR CONDITIONING, AND HEATING AND VENTILATING UNITS	ALL	≤10	ALL	A	3	0.75 (19)	A	3	0.75 (19)	NOTES 1, 2, 3

GENERAL NOTES:

KEYED NOTES:

1. THRUST RESTRAINTS: PROVIDE THRUST RESTRAINTS BETWEEN FAN DISCHARGE AND DUCT (IN PAIRS, LOCATED ON THE CENTERLINE OF THE DISCHARGE OUTLET OF THE FAN, BRIDGING THE FLEXIBLE DUCT CONNECTOR) FOR ALL FAN HEADS, FOR AXIAL AND CENTRIFUGAL FANS UNITS OPERATING AT 2 INCHES OR GREATER TOTAL STATIC PRESSURE AND AS SHOWN ON DRAWINGS. SPRING DEFLECTION SHALL BE SAME AS THE SUPPORT ISOLATORS.
2. HORIZONTAL PIPING VIBRATION ISOLATION: PROVIDE TYPE 8a OR 8b SPRING HANGERS FOR PIPING CONNECTED TO VIBRATION ISOLATED EQUIPMENT FOR ALL PIPING IN MECHANICAL ROOMS OR THE FOLLOWING MINIMUM HORIZONTAL DISTANCES FROM THE ISOLATED EQUIPMENT: UP TO 6" – 50 FEET (1 1/2" MINIMUM DEFLECTION), 8" AND LARGER – 100 FEET (2 1/2" MINIMUM DEFLECTION), WHICHEVER IS GREATER, AND AS SHOWN ON DRAWINGS. THE FIRST 4 HANGERS FROM THE ISOLATED EQUIPMENT SHALL BE TYPE 8b.
3. DUCTWORK VIBRATION ISOLATION: PROVIDE TYPE 8a OR 8b SPRING HANGERS FOR DUCTWORK WITH A CROSS SECTION OF 2 SQUARE FEET OR GREATER CONNECTED TO AIR HANDLING UNITS, RETURN OR RELIEF FANS, AND VIBRATION ISOLATED EQUIPMENT FOR ALL SUCH DUCTWORK IN MECHANICAL ROOMS OR FOR A MINIMUM HORIZONTAL DISTANCE OF 100 FEET FROM THE ISOLATED EQUIPMENT, WHICHEVER IS GREATER, AND AS SHOWN ON DRAWINGS (3/4" MINIMUM DEFLECTION).

BASE TYPES:

BASE TYPE A – NO BASE, ISOLATORS ATTACHED DIRECTLY TO EQUIPMENT.
BASE TYPE B – STRUCTURAL, STEEL RAILS OR BASE.
BASE TYPE C – CONCRETE INERTIA BASE.
BASE TYPE D – CURB – MOUNTED ALUMINUM BASE WITH 1" DEFL. SPRING ISOLATORS
BASE TYPE E – CURB – MOUNTED STEEL BASE WITH ADJUSTABLE 1", 2" OR 3" DEFL. SPRING ISOLATORS

ISOLATOR TYPES:

ISOLATOR TYPE 1a – ELASTOMERIC ISOLATION PAD.
ISOLATOR TYPE 1b – ELASTOMERIC ISOLATION PAD WITH STEEL LOAD BEARING PLATE.
ISOLATOR TYPE 2 – ELASTOMERIC FLOOR ISOLATOR.
ISOLATOR TYPE 3 – FREE STANDING SPRING FLOOR ISOLATOR.
ISOLATOR TYPE 4 – RESTRAINED SPRING ISOLATOR.
ISOLATOR TYPE 5 – THRUST RESTRAINT.
ISOLATOR TYPE 6 – AIR SPRING.
ISOLATOR TYPE 7 – ELASTOMERIC HANGERS.
ISOLATOR TYPE 8a – SPRING HANGERS.
ISOLATOR TYPE 8b – SPRING HANGERS WITH VERTICAL–LIMIT STOP.

HORIZONTAL PIPING AND SUPPORT APPLICATION SCHEDULE

METAL PIPE TYPE & SIZE	HANGER OR SUPPORT TYPE: MSS TYPE 1 CLEVIS HANGER	MSS TYPE 10 SWIVEL RING BAND HANGER	MSS TYPE 41 DOUBLE ROD PIPE ROLLER	MSS TYPE 43 SINGLE ROD ROLLER HANGER	MSS TYPE 44 PIPE ROLLER & STAND	MSS TYPE 46 ADJUSTABLE PIPE ROLL STAND	SHIELD TYPE: MSS TYPE 39 PROTECTION SADDLE	MSS TYPE 40 INSULATION PROTECTION SHIELD	THERMAL–HANGER SHIELD	KEYED NOTES
UNINSULATED SINGLE PIPE										
UP TO 2 INCH	X	X								
2–1/2 INCH TO 4 INCH	X	X								
INSULATED SINGLE COLD PIPES										
UP TO 2 INCH	X	X						X	X	A
2–1/2 INCH TO 4 INCH	X								X	
INSULATED SINGLE HOT PIPES										
UP TO 2 INCH	X	X					X	X	X	A, C
2–1/2 INCH TO 4 INCH			X	X	X	X	X		X	B, C

GENERAL NOTES

1. "X" INDICATES APPROVED HANGER OR SUPPORT ELEMENTS. IF MORE THAN ONE HANGER OR SUPPORT ELEMENT IS INDICATED, SELECTION FROM APPROVED ELEMENTS IS CONTRACTOR'S OPTION.
2. REFER TO HANGER AND SUPPORT SECTION FOR APPROVED MANUFACTURERS.
3. HANGERS AND SUPPORTS USED FOR FIRE PROTECTION SERVICES SHALL BE UL LISTED OR FMG APPROVED.
4. HANGER ELEMENTS IN CONTACT WITH BARE COPPER PIPE SHALL BE COPPER PLATED, PLASTIC COATED, FELT LINED, OR USE MANUFACTURED COPPER TUBE ISOLATORS.
5. REFER TO INDIVIDUAL PIPING SPECIFICATION SECTIONS FOR HANGER SPACING.
6. MULTIPLE PARALLEL COLD PIPES MAY BE TRAPEZE SUPPORTED FROM BELOW USING U–BOLTS OR STRUT CLAMPS AND THERMAL HANGER SHIELDS. REFER TO KEYED NOTE A.
7. MULTIPLE PARALLEL COLD PIPES MAY BE TRAPEZE SUPPORTED FROM ABOVE USING STANDARD HANGER ELEMENTS INDICATED FOR SINGLE COLD PIPES.
8. MULTIPLE PARALLEL HOT PIPES MAY BE TRAPEZE SUPPORTED FROM BELOW USING ROLLER ELEMENTS AND THERMAL HANGER SHIELD OR INSULATION PROTECTION SADDLE. REFER TO KEYED NOTES B AND C.
9. MULTIPLE PARALLEL HOT PIPES MAY BE TRAPEZE SUPPORTED FROM ABOVE USING STANDARD ROLLER HANGERS INDICATED AND THERMAL HANGER SHIELD OR INSULATION PROTECTION SADDLE. REFER TO KEY NOTES B AND C.
10. REFER TO INDIVIDUAL PIPING SPECIFICATION SECTIONS FOR ADDITIONAL SYSTEM SPECIFIC HANGER APPLICATIONS.

KEYED NOTES

A. USE THERMAL HANGER SHIELD ON TRAPEZE SUPPORTED INSULATED PIPE TO PREVENT CRUSHING OF INSULATION.
B. USE THERMAL HANGER SHIELD DESIGNED FOR USE ON ROLLER SUPPORTS FOR INSULATED HOT PIPE .
C. USE TYPE 39 PROTECTION SADDLES IF INSULATION WITHOUT VAPOR BARRIER IS INDICATED. FILL INTERIOR VOIDS WITH INSULATION MATCHING ADJOINING INSULATION.

DUCT SYSTEM INSULATION APPLICATION SCHEDULE

	INSULATION MATERIAL & THICKNESS (INCHES): FIBERGLASS BLANKET 0.75 LB/CU FT	FIBERGLASS BLANKET 1.0 LB/CU FT	FIBERGLASS BOARD 2.25 LB/CU FT	FIBERGLASS BOARD 6.0 LB/CU FT	FLEXIBLE ELASTOMERIC	ASTM E2336 2–HOUR FIRE RATED BLANKET	2–HOUR FIRE RATED BLANKET	FIELD APPLIED JACKET MATERIAL: ALUMINUM	SELF–ADHESIVE (FOR OUTDOOR APPLICATIONS)	KEYED NOTES
DUCT SYSTEMS LOCATED INDOORS										
SUPPLY AIR, EXCEPT AS NOTED BELOW		1.5								A, B
RECTANGULAR SUPPLY AIR IN MECHANICAL ROOMS			1.5							
ROUND & FLAT OVAL SUPPLY AIR IN MECHANICAL ROOMS		1.5								
RECTANGULAR RETURN AIR IN MECHANICAL EQUIPMENT ROOMS			1.5							
ROUND RETURN AIR IN MECHANICAL ROOMS		1.5								
RECTANGULAR OUTSIDE AIR AND MIXED AIR IN MECHANICAL ROOMS			1.5							
OUTSIDE AIR INTAKE, RELIEF AIR AND EXHAUST AIR PLENUMS ADJACENT TO EXTERIOR LOUVERS			1.5							
RECTANGULAR EXHAUST AND RELIEF AIR BETWEEN ISOLATION DAMPER AND PENETRATION OF BUILDING EXTERIOR, IN MECHANICAL ROOMS			1.5							

PLENUMS, DUCTS, AND DUCT ACCESSORIES NOT REQUIRING INSULATION:
FIBROUS–GLASS DUCTS
DOUBLE–WALL METAL DUCTS WITH INSULATION OF SUFFICIENT THICKNESS TO COMPLY WITH ENERGY CODE AND ASHRAE/IESNA 90.1 – 2013
METAL DUCTS WITH DUCT LINER OF SUFFICIENT THICKNESS TO COMPLY WITH ENERGY CODE AND ASHRAE/IESNA 90.1 – 2013
FABRIC SUPPLY DUCTS
FACTORY–INSULATED FLEXIBLE DUCTS
FACTORY–INSULATED PLENUMS AND CASINGS
FLEXIBLE CONNECTORS
VIBRATION–CONTROL DEVICES
FACTORY–INSULATED ACCESS PANELS AND DOORS

GENERAL NOTES

1. 'X' OR THICKNESS IN INCHES INDICATE ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A DUCT SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.
2. REFER TO METAL DUCT SECTION OF SPECIFICATIONS FOR DUCT LINING AND DOUBLE–WALL INSULATED DUCT.
3. REFER TO HVAC CASINGS SECTION OF SPECIFICATIONS FOR DOUBLE–WALL INSULATED PLENUMS.

KEYED NOTES

A. INCLUDE INSULATION AROUND DUCT MOUNTED COILS AND AIR TERMINAL UNIT COILS.
B. EXPOSED SUPPLY DUCTWORK LOCATED IN A CONDITIONED SPACE SERVED BY THE SAME AIR HANDLING SYSTEM IS NOT REQUIRED TO BE INSULATED.

DUCT SYSTEM APPLICATION SCHEDULE

AIR SYSTEMS	DUCT MATERIAL: G90 GALV. SHEET METAL	DOUBLE–WALL LINED G90 GALV. SHEET METAL (SOLID INNER WALL)	DOUBLE–WALL LINED G90 GALV. SHEET METAL (PERF. INNER WALL)	G90 GALV. SHEET METAL WITH 1–INCH LINING	GALVANNEALED SHEET METAL	ALUMINUM	TYPE 304 STAINLESS STEEL	TYPE 316 STAINLESS STEEL	PVC COATED GALV. SHEET METAL (4X1)	PVC COATED GALV. SHEET METAL (1X4)	PVC COATED GALV. SHEET METAL (4X4)	16 GA. CARBON STEEL	ZERO–CLEARANCE PREFABRICATED RANGE HOOD EXHAUST DUCT	FABRIC	DESIGN PRESSURE CLASS (INCHES WG)	SEAL CLASS	MAX. ALLOWABLE LEAKAGE RATE (PERCENT)	KEYED NOTES
SUPPLY AIR WITHOUT TERMINAL UNITS	X														+2	A	5	
SUPPLY AIR UPSTREAM OF TERMINAL UNITS	X														+6	A	5	
SUPPLY AIR DOWNSTREAM OF TERMINAL UNITS	X														+2	A	5	
RETURN AIR WITHOUT TERMINAL UNITS	X														–2	A	5	
EXHAUST AIR WITHOUT TERMINAL UNITS	X														–2	A	5	
AIR TRANSFER DUCT				X											+2	A	5	
OUTSIDE AIR AND MIXED AIR DUCT	X														–6	A	5	

GENERAL NOTES

1. 'X' INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A DUCT SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.

KEY PLAN

GRAPHIC SCALE

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

STAMP OR SEAL

STATE OF MICHIGAN
DAVID ANTHONY CONRAD
ENGINEER
No. 62010555580
LICENSED PROFESSIONAL ENGINEER

OWNER IDENTIFICATION

General Services Administration
Public Buildings Service
Great Lakes
Design and Construction,
Project Delivery Division
John C. Kluczynski Federal Building
230 South Dearborn St.
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	RLT
CHECKED BY	DC
FLOOR NO.	N/A
DISCIPLINE	MECHANICAL
PLAN TYPE	SCHEDULES
SHEET NUMBER AND FILENAME	M702

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BLOWER COIL UNIT SCHEDULE

UNIT IDENTIFICATION	FAN						COOLING COIL										HEATING COIL									ARRANGEMENT	MAXIMUM UNIT DIMENSIONS			FILTER	MODULATION/ CONTROL TYPE	ELECTRICAL				MODEL NUMBER	KEYED NOTES
	AIRFLOW CFM	ESP IN. W.G.	TSP IN. W.G.	BHP	HP	FAN RPM	SENSIBLE CAPACITY MBH	TOTAL CAPACITY MBH	AIR				WATER					MINIMUM TOTAL CAPACITY MBH	AIR		WATER						LENGTH INCHES	WIDTH INCHES	HEIGHT INCHES	TYPE		VOLTS	PHASE	SCCR KA	OPTIONS/ ACCESSORIES		
									E.D.B. °F	E.W.B. °F	L.D.B. °F	L.W.B. °F	FLOW GPM	E.W.T. °F	L.W.T. °F	MAX W.P.D. FT. HEAD	CONTROL VALVE W.P.D. FT. HEAD		E.D.B. °F	L.D.B. °F	FLOW GPM	E.W.T. °F	L.W.T. °F	FT. HEAD	CONTROL VALVE W.P.D. FT. HEAD												
BCU-B-1	400	0.75	0.85	---	1/2	1068	4.9	6.1	75	62.5	56.9	54.1	1.3	44	55.9	5	12	4.9	70.0	98.8	1.3	180	160.1	5	12	HORIZONTAL	46-1/2	30	24	MERV 8	AUTO	277	1	5	---	HDD08	1
BCU-1-1	400	0.75	0.85	---	1/2	1068	4.9	6.1	75	62.5	56.9	54.1	1.3	44	55.9	5	12	4.9	70.0	98.8	1.3	180	160.1	5	12	HORIZONTAL	46-1/2	30	24	MERV 8	AUTO	277	1	5	---	HDD08	1

GENERAL NOTES:
1. REFER TO SCHEDULES GENERAL NOTES.
2. MODEL NUMBERS ARE ENVIROTEC UNLESS OTHERWISE NOTED

KEYED NOTES:
1. PROVIDE DEDICATED CONDENSATE PUMP.

SCHEDULES GENERAL NOTES:

TYPICAL FOR ALL SCHEDULE SHEETS:

1. REFER TO ELECTRICAL STANDARD SCHEDULES, ONE LINE DIAGRAM AND PANEL SCHEDULES FOR ADDITIONAL ELECTRICAL INFORMATION
2. PROVIDE THE FOLLOWING FACTORY-WIRED ELECTRICAL OPTIONS/ACCESSORIES WHERE INDICATED IN SCHEDULE:
   - A – NON-FUSED DISCONNECT SWITCH
   - B – UNIT SHALL BE SINGLE POINT ELECTRICAL CONNECTION WITH FACTORY INSTALLED DISCONNECTING MEANS AND ALL REQUIRED STARTERS AND CONTROLS
   - C – SERVICE RECEPTACLE
   - D – FUSED DISCONNECT SWITCH
   - E – COMBINATION STARTER
   - F – UNIT SHALL HAVE (2) SINGLE POINT CONNECTIONS WITH FACTORY INSTALLED DISCONNECTING MEANS AND ALL REQUIRED STARTERS AND CONTROLS. (1) CONNECTION SHALL BE FOR CONDENSING SECTION AND (1) CONNECTION SHALL BE FOR THE REMAINDER OF THE UNIT.
3. FOR MODULATION/CONTROL TYPE COLUMN, "VFC" INDICATES VARIABLE FREQUENCY CONTROLLERS, "AUTO" INDICATES AUTOMATIC OPERATION (CONTROLLED BY TEMPERATURE CONTROLS OR SELF CONTAINED CONTROLS), "MANUAL" INDICATES HAND OPERATION.
4. IF VARIABLE FREQUENCY CONTROLLERS ARE INDICATED TO BE PROVIDED AND ARE NOT INSTALLED INTEGRAL TO THE UNIT, VARIABLE FREQUENCY CONTROLLERS SHALL BE SUPPLIED BY THE MECHANICAL CONTRACTOR (UNLESS OTHERWISE NOTED) AND INSTALLED BY THE ELECTRICAL CONTRACTOR INCLUDING THE LINE SIDE AND LOAD SIDE WIRING TO THE MOTOR AND INCLUDING MISCELLANEOUS STEEL REQUIRED FOR THE SUPPORT AND MOUNTING OF THE VFC. REFER TO FLOOR PLANS FOR LOCATION.
5. WHERE EQUIPMENT IS INDICATED TO HAVE A SINGLE POINT ELECTRICAL CONNECTION, THAT EQUIPMENT SHALL COME COMPLETE WITH FACTORY INSTALLED STARTERS, MOTOR OVERLOAD PROTECTION, CONTACTORS, FUSING AND ALL NECESSARY INTERNAL WIRING AND CONTROLS. PROVIDE A FACTORY MOUNTED UNIT DISCONNECTING MEANS WHERE THE ELECTRICAL CONTRACTOR SHALL MAKE SINGLE POINT CONNECTION. INSTALL PACKAGED EQUIPMENT SUCH THAT THE ELECTRICAL CONNECTION AND CONTROLS ARE ACCESSIBLE AND HAVE CLEARANCES MEETING THE NATIONAL ELECTRICAL CODE.
6. WHERE PACKAGED EQUIPMENT IS PROVIDED, NAMEPLATE MUST INDICATE MAXIMUM OVERCURRENT PROTECTION BY HACR RATED CIRCUIT BREAKERS OR FUSES. IF FUSE PROTECTION ONLY IS INDICATED, PROVIDE A FUSIBLE DISCONNECT AND FUSES WITH THE UNIT.
7. WHERE EQUIPMENT IS DESIGNATED BY MANUFACTURER AND MODEL NUMBER, THIS IS THE BASIS OF DESIGN. IF THE CONTRACTOR ELECTS TO PROVIDE EQUIPMENT BY OTHER SPECIFIED MANUFACTURERS OR PROPOSED ALTERNATE EQUIPMENT BY THE BASIS OF DESIGN MANUFACTURER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISIONS TO ELECTRICAL REQUIREMENTS, STRUCTURAL LOADING, OR ARCHITECTURAL APPURTENANCES AND SHALL INCLUDE THE COST OF SUCH REVISIONS IN HIS BID.
8. WHERE EQUIPMENT IS SCHEDULED TO INCLUDE A SERVICE RECEPTACLE, PROVIDE A FACTORY MOUNTED SERVICE RECEPTACLE WITH APPROPRIATE FUSES AND TRANSFORMERS CONNECTED ON THE LINE SIDE OF THE UNIT DISCONNECT. PROVIDE A NAMEPLATE ON THE DISCONNECT SWITCH INDICATING THE PRESENCE OF LIVE POWER TO THE SERVICE RECEPTACLE WHEN THE UNIT DISCONNECT IS IN THE OFF POSITION.
9. SIZE ALL EQUIPMENT FEEDERS BASED ON THE LISTED MOP (MAXIMUM OVERCURRENT PROTECTION). REFER TO THE FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE ON THE ELECTRICAL STANDARD SCHEDULES SHEET.

ENERGY RECOVERY UNIT SCHEDULE

UNIT IDENT-IFICATION	AREA/ SYSTEM SERVED	SUPPLY FAN							EXHAUST FAN						HEAT EXCHANGER (SUMMER)					HEAT EXCHANGER (WINTER)					RETURN AIR FILTERS			OUTSIDE AIR FILTERS			ELECTRICAL						CURB			UNIT WEIGHT (LBS.)	SA/RA CONFIG.	EA/OA CONFIG.	MODEL NUMBER	KEYED NOTES
		CFM	MIN. OA CFM	ESP*	TSP*	CONTROL TYPE	MOTOR		CFM	ESP*	TSP*	CONTROL TYPE	MOTOR		SUPPLY SIDE		EXHAUST SIDE		EFFIC. (%)	SUPPLY SIDE		EXHAUST SIDE		EFFIC. (%)	EFF. %	AREA SQ. FT.	SP* TOTAL	EFF. %	AREA SQ. FT.	SP* TOTAL	VOLTS	PHASE	MCA	MOP	SCCR KA	OPTIONS/ ACCESS-ORIES	TYPE		HEIGHT					
							BHP	HP					BHP	HP	E.A.T. °F	L.A.T. °F	E.A.T. °F	L.A.T. °F		E.A.T. °F	L.A.T. °F	E.A.T. °F	L.A.T. °F														STANDARD	VIBRATION ISOLATION SPRING CURB						
ERU-3-1	2ND FLOOR HOLDING CELLS	1110	1110	1.03	–	VFC	0.69	2.0	1270	2.0	–	VFC	0.72	2.0	92.0/ 75.0	78.8/ 67.9	75.0/ 62.5	–	0.78	-10/ -10	52.3/ 44.2	70.0/ 54.2	–	0.78	8	2.8	0.1	8	2.8	0.1	208	1	28.3	30	5	B	NO	YES	---	650	HORIZ	HORIZ	HE-2XJINH	1, 2

GENERAL NOTES:
1. REFER TO SCHEDULES GENERAL NOTES.
2. MODEL NUMBERS ARE RENEWAIRE UNLESS OTHERWISE NOTED.

KEYED NOTES:
1. COORDINATE UNIT CONFIGURATION WITH PLANS IN ORDER TO ALLOW FOR PROPER SERVICE ACCESS.
2. REFER TO TEMPERATURE CONTROL DRAWINGS FOR OUTSIDE AIR CONTROL SEQUENCE.

POWER VENTILATOR SCHEDULE

UNIT IDENTIFICATION	SYSTEM SERVED	TYPE	AIRFLOW CFM (MAX/MIN)	T.S.P. IN. W.G.	TIP SPEED FPM	FAN RPM	MOTOR				CURB HEIGHT INCHES	MODULATION/ CONTROL TYPE	ELECTRICAL				MAXIMUM SOUND POWER LEVELS								MODEL NUMBER	KEYED NOTES
							BHP	HP	RPM	DRIVE TYPE			VOLTS	PHASE	SCCR KA (NOTE 3)	OPTIONS/ ACCESSORIES	UNIT DISCHARGE/INLET Lw BY OCTAVE BAND									
																	63 HZ (DB)	125 HZ (DB)	250 HZ (DB)	500 HZ (DB)	1000 HZ (DB)	2000 HZ (DB)	4000 HZ (DB)	8000 HZ (DB)		
EF-B-1	EXISTING GARAGE MAX	INLINE	4500	0.5	6534	1122	0.69	1	1130	DIRECT	---	ECM	208	1	5	---	79/71	75/73	73/72	76/73	75/71	71/69	67/65	61/59	SQ-18-07-0700-VG	
EF-B-2	EXISTING GARAGE MIN	INLINE	1910	0.5	5503	1601	0.48	3/4	1725	DIRECT	---	ECM	208	1	5	---	73/72	80/78	75/81	70/76	61/66	60/66	55/61	52/56	SQ-130-VG	
EF-B-6	SALLEY PORT	INLINE	900/800	0.5	4453	1520	0.17	1/4	1725	DIRECT	---	ECM	115	1	5	---	68/67	73/71	64/70	63/69	59/64	54/60	48/54	47/51	SQ-100-VG	
VF-B-1	ELEC ROOM	INLINE	200	0.5	4454	1564	0.05	1/10	1725	DIRECT	---	ECM	115	1	5	---	69/68	76/74	63/69	55/61	55/60	51/57	46/52	42/46	SQ-80-VG	
SF-B-1	GARAGE VENTILATION	INLINE	9500/3500	1.0	8282	1054	2.43	5	1170	DIRECT	---	VFD	460	3	5	---	79/74	80/82	77/80	78/77	76/76	75/75	72/71	66/66	QEID-22-100	
SF-B-2	GARAGE VENTILATION	INLINE	9500/3500	1.0	8282	1054	2.43	5	1170	DIRECT	---	VFD	460	3	5	---	79/74	80/82	77/80	78/77	76/76	75/75	72/71	66/66	QEID-22-100	

GENERAL NOTES:
1. REFER TO SCHEDULES GENERAL NOTES.
2. MODEL NUMBERS ARE GREENHECK UNLESS OTHERWISE NOTED.
3. CONTROLLER (E.G. VARIABLE FREQUENCY CONTROLLER, MOTOR STARTER) FOR SPECIFIED EQUIPMENT SHALL BE MANUFACTURED AND MARKED PER NEC WITH A MINIMUM SHORT CIRCUIT CURRENT RATING AS INDICATED.

HOT WATER CABINET UNIT HEATER SCHEDULE

UNIT IDENTIFICATION	CAPACITY MBH	AIR			FAN		WATER					CONTROL VALVE W.P.D. FT. HEAD	DIMENSIONS			RECESS DEPTH INCHES	FILTER		MODULATION/ CONTROL TYPE	ELECTRICAL				MODEL NUMBER	KEYED NOTES
		AIRFLOW CFM	E.D.B. °F	L.D.B. °F	HP	RPM	FLOW GPM	FLUID TYPE	E.W.T. °F	L.W.T. °F	MAXIMUM W.P.D. FT. HEAD		LENGTH INCHES	HEIGHT INCHES	DEPTH INCHES		TYPE	AREA SQ. FT.		VOLTS	PHASE	SCCR KA	OPTIONS/ ACCESSORIES		
CUH-1-1	24.4	450	40	89.8	(2) 0.25	1750	2.4	WATER	180	160	5	15	48-3/4	25	9-3/4	9-3/4	PERMANENT/ CLEANABLE	1.8	AUTO	120	1	5	B	CW004	1, 2

GENERAL NOTES:
1. REFER TO SCHEDULES GENERAL NOTES.
2. MODEL NUMBERS ARE STERLING UNLESS OTHERWISE NOTED.

KEYED NOTES:
1. PROVIDE ARRANGEMENT 08.
2. PRIME CABINET UNIT HEATER FOR CUSTOM PAINT COLOR IN FIELD. PAINTING TO BE PROVIDED AND APPLIED BY CONTRACTOR.

PLUMBING CONNECTION SCHEDULE

UNIT IDENTIFICATION	CW INCHES	HW INCHES	SAN INCHES	VENT INCHES	KEYED NOTES
WC/LAV-1	1 1/2	1/2	4	2	
SK-1	3/4	3/4	1 1/2	1 1/2	

GENERAL NOTES:
1. INDIVIDUAL WATER LINE BRANCHES, WASTE LINES, VENTS, AND TRAPS FOR CONNECTION TO INDIVIDUAL FIXTURES, FIXTURE FITTINGS, AND SPECIALTIES SHALL BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE OR AS INDICATED ON DRAWINGS, WHICHEVER IS GREATER.

HOT WATER HEATING COIL SCHEDULE

UNIT IDENTIFICATION	SYSTEM SERVED	MAXIMUM NUMBER ROWS	MAXIMUM FIN DENSITY FINS/INCH	CAPACITY MBH	AIR				MINIMUM FACE AREA SQ. FT.	WATER					CONTROL VALVE W.P.D. FT. HD.	MODEL NUMBER	KEYED NOTES
					AIRFLOW CFM	E.D.B. °F	L.D.B. °F	MAXIMUM A.P.D. IN. W.G.		FLOW GPM	FLUID TYPE	E.W.T. °F	L.W.T. °F	MAXIMUM W.P.D. FT. HEAD			
HC-3-1	ERU-3-1	2	10	29.0	1110	52.3	76.60	0.07	471	3.8	WATER	180	160	5	15	5WC-8-12x28 x1-8AL	

GENERAL NOTES:
1. MODEL NUMBERS ARE TRANE UNLESS OTHERWISE NOTED.
2. COIL SELECTION BASED ON .00025 FOULING FACTOR.

CHILLED WATER COOLING COIL SCHEDULE

UNIT IDENTIFICATION	SYSTEM SERVED	MAXIMUM NUMBER ROWS	MAXIMUM FIN DENSITY FINS/INCH	TOTAL CAPACITY MBH	AIR						MINIMUM FACE AREA SQ. FT.	WATER					CONTROL VALVE W.P.D. FT. HEAD	MODEL NUMBER	KEYED NOTES
					AIRFLOW CFM	E.D.B. °F	E.W.B. °F	L.D.B. °F	L.W.B. °F	MAXIMUM A.P.D. IN. W.G.		FLOW GPM	FLUID TYPE	E.W.T. °F	L.W.T. °F	MAXIMUM W.P.D. FT. HEAD			
CC-3-1	ERU-3-1	4	10	49.0	1110	78.8	67.9	55.0	54.2	0.46	413	7.9	WATER	44	56	10.8	25	5WC-16-12x32 x4-10AL	

GENERAL NOTES:
1. MODEL NUMBERS ARE TRANE UNLESS OTHERWISE NOTED.
2. COIL SELECTIONS BASED ON .00025 FOULING FACTOR.

KEYED NOTES:
1. PROVIDE CONDENSATE DRAIN PAN BELOW COIL.

ELECTRIC SNOWMELT SCHEDULE

UNIT IDENTIFICATION	AREA SERVED (SQFT)	CAPACITY WATTS/ SQ FT	HEATING ELEMENT (KW)	DIMENSIONS		ELECTRICAL				MODEL NUMBER	KEYED NOTES
				CABLE LENGTH (FT.)	CABLE SPACING (INCHES)	VOLTS	PHASE	FLA	MOP		
ZONE #1	225	35	8.7	440	12	277	1	31.4	40	SUB 17	1
ZONE #2	220	35	8.7	440	12	277	1	31.4	40	SUB 17	1
ZONE #3	220	35	8.7	440	12	277	1	31.4	40	SUB 17	1
ZONE #4	225	35	8.7	440	12	277	1	31.4	40	SUB 17	1

GENERAL NOTES:
1. MODEL NUMBERS ARE RAYCHEM UNLESS OTHERWISE NOTED.
2. SUBMIT ELECTRIC CABLING LAYOUT PRIOR TO INSTALLATION.

KEYED NOTES:
1. PROVIDE FULLY FUNCTIONING SYSTEM INCLUDED BUT NOT LIMITED TO HEATING CABLING, JUNCTIONS BOXES, CAUTION SIGNS, STRAPPING, CONTROLLERS, CONTACTORS, AND SNOW SENSORS.

GRAVITY RELIEF HOOD SCHEDULE

UNIT IDENTIFICATION	SYSTEM SERVED	CFM	THROAT SIZE INCHES	THROAT VELOCITY FPM	STATIC PRESSURE DROP IN. W.G.	HOOD SIZE			CURB HEIGHT INCHES	HOOD CONSTRUCTION	MODEL NUMBER	KEYED NOTES
						WIDTH INCHES	LENGTH INCHES	HEIGHT INCHES				
GRH-3-1	ERU-3-1	1270	16x16	714	0.08	30	30	14-3/4	18	ALUMINUM	WRH	

GENERAL NOTES:
1. MODEL NUMBERS ARE GREENHECK UNLESS OTHERWISE NOTED.
2. PROVIDE WITH BIRD SCREEN.

KEY PLAN

GRAPHIC SCALE

REVISION BLOCK

MARK	DATE	DESCRIPTION
1	2/15/2023	100% REVISION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

STAMP OR SEAL

STATE OF MICHIGAN
DAVID ANTHONY CONRAD
ENGINEER
No. 62010555580
LICENSED PROFESSIONAL ENGINEER

OWNER IDENTIFICATION

GSA
General Services Administration
Public Buildings Service
Great Lakes
Design and Construction,
Project Delivery Division
John C. Kluczynski Federal Building
230 South Dearborn St.
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	RLT
CHECKED BY	DC
FLOOR NO.	N/A
DISCIPLINE	MECHANICAL
PLAN TYPE	SCHEDULES
SHEET NUMBER AND FILENAME	M703

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SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE

INDOOR UNIT																				OUTDOOR UNIT												
UNIT IDENTIFICATION	TOTAL CAPACITY MBH	EVAPORATOR FAN			COOLING COIL			HUMIDIFIER		HEATING COIL		FILTER		ELECTRICAL					MODEL NUMBER	UNIT IDENTIFICATION	CONDENSING SECTION					MODULATION/ CONTROL TYPE	ELECTRICAL					MODEL NUMBER	KEYED NOTES
		AIRFLOW CFM	NUMBER FANS	WATTS EACH	E.D.B. °F	E.W.B. °F	MINIMUM FACE AREA SQ. FT.	STEAM CAP. (LB./HR)	INPUT KW	KW	STAGE	EFF. %	AREA SQ. FT.	VOLTS	PHASE	FLA	MOP	SCCR KA			NUMBER OF COMPRESSORS	NUMBER OF CONTROL STAGES	AMBIENT TEMPERTURE °F	AIRFLOW CFM	FAN WATTS		VOLTS	PHASE	FLA	MOP	SCCR KA		
AC-3	33.8	1250	1	0.38	80	62.8	3.1	---	---	7.9	SCR	MERV 8	2.8	208	3	26.9	35	5	MMD36E	ACCU-3	1	MODULATING	95	3000	149	AUTO	208	3	13.4	25	5	PFH037A	1, 2, 3

GENERAL NOTES:
1. REFER TO SCHEDULES GENERAL NOTES.
2. MODEL NUMBERS LIEBERT UNLESS OTHERWISE NOTED.

KEYED NOTES:
1. UNIT SHALL BE CAPABLE OF OPERATING DOWN TO 0 DEG. F.
2. PROVIDE FILTER BOX.
3. PROVIDE DISTRIBUTION PLENUM.

HOT WATER PROPELLER FAN UNIT HEATER SCHEDULE

UNIT IDENTIFICATION	CAPACITY MBH	AIRFLOW CFM	LEAVING AIR TEMPERATURE °F	FAN		WATER					CONTROL VALVE W.P.D. FT. HEAD	MODULATION/ CONTROL TYPE	ELECTRICAL				MODEL NUMBER	KEYED NOTES
				HP	RPM	FLOW GPM	FLUID TYPE	E.W.T. °F	L.W.T. °F	MAXIMUM W.P.D. FT. HEAD			VOLTS	PHASE	SCCR KA	OPTIONS/ ACCESSORIES		
UH-B-1	4.2	245	80.3	16 W	1550	0.5	WATER	180	150	5	12	AUTO	120	1	5	B	HS-108A	1
UH-B-2	3.5	245	77.3	16 W	1550	0.5	WATER	180	150	5	12	AUTO	120	1	5	B	HS-108A	1

GENERAL NOTES:
1. REFER TO SCHEDULES GENERAL NOTES.
2. MODEL NUMBERS ARE STERLING UNLESS OTHERWISE NOTED.

NOTES:
1. PROVIDE EQUIPMENT WALL SUPPORT.

AIR HANDLING UNIT FILTER SCHEDULE

UNIT I.D.	SYSTEM SERVED	TYPE	AIRFLOW CFM	AIR PRESS. DROP		EFFICIENCIES		FILTER MEDIA					HOUSING				MODEL NO.	KEYED NOTES
				INITIAL IN. W.G.	DIRTY IN. W.G.	MERV	D.S. %	QUAN.	WIDTH IN.	HEIGHT IN.	DEPTH IN.	MIN. MEDIA FACE AREA SQ. FT.	ACCESS TYPE	WIDTH IN.	HEIGHT IN.	DEPTH IN.		
AF-3-1	ERU-3-1	HEPA	1270	1.0	2.0	HEPA	99.97	1	24	24	11.5	301	SIDE	26.4	28.5	12	XH ABSOLUTE	1

GENERAL NOTES:
1. MODEL NUMBERS ARE CAMFIL UNLESS OTHERWISE NOTED.
2. MERV DESIGNATES THE "MINIMUM EFFICIENCY REPORTING VALUE" AS EVALUATED UNDER ASHRAE STANDARD 52.2 1999.

KEYED NOTES:
1. PROVIDE 25% TO 30% EFFICIENT 2 INCH THROW AWAY PREFILTERS

AIR TERMINAL TYPE

DUCT CONNECTIONS		DISCHARGE SOUND POWER/RADIATED SOUND POWER - dB						DIMENSIONS		MODEL NUMBER	KEYED NOTES
INLET SIZE INCHES	OUTLET SIZE INCHES	125 Hz	250 Hz	500 Hz	1000 Hz	2000 HZ	4000 HZ	LENGTH INCHES	HEIGHT INCHES		
6ø	12x8	73/66	69/63	62/52	56/42	53/40	49/36	18-7/8	8	SDV	1
8ø	12x10	72/68	70/59	66/53	63/47	57/46	53/46	18-7/8	10	SDV	2

GENERAL NOTES:
1. MODEL NUMBERS ARE PRICE UNLESS OTHERWISE NOTED.
2. MAXIMUM SOUND POWER LEVEL BASED ON 2" PRESSURE DROP ACROSS UNIT WITH NO ALLOWANCE FOR EXTERNAL ATTENUATION.

KEYED NOTES:
1. BASED ON 350 CFM
2. BASED ON 650 CFM

AIR TERMINAL UNIT WITH HOT WATER COIL SCHEDULE

UNIT IDENTIFICATION	INLET SIZE	AREA SERVED	UNIT SERVED FROM	AIR FLOW					HEATING COIL (NOTE 3)										KEYED NOTES
				COOLING MAX CFM	COOLING MIN. CFM	HEATING MIN. CFM	HEATING MAX CFM	MAXIMUM A.P.D. W/COIL IN. W.G.	CAPACITY MBH	NUMBER ROWS	AIR		WATER						
											E.D.B °F	L.D.B. °F	FLOW GPM	E.W.T. °F	L.W.T. °F	MAXIMUM W.P.D. FT. HEAD	CONTROL VALVE W.P.D. FT. HEAD	CONTROL VALVE TYPE	
VAV-B-1-18	6	SALLEY PORT	AHU-B-1	200	200	200	200	0.25	7.5	1	54	88.6	0.9	180	162.1	5	12	2-WAY	
VAV-2-1 (RELOCATED EXISTING UNIT)	10	BREAK ROOM, CORRIDORS	AHU-2-1	680	680	680	680	0.25	19.2	1	54	80.0	1.7	180	156.7	5	12	2-WAY	
VAV-2-2	8	CONFERENCE	AHU-2-1	510	510	510	510	0.25	14.4	2	54	80.0	17	180	162.1	5	12	2-WAY	

GENERAL NOTES:
1. MODEL NUMBERS ARE PRICE UNLESS OTHERWISE NOTED.
2. MAXIMUM PRESSURE DROP SCHEDULED SHALL BE THE MAXIMUM ALLOWABLE STATIC PRESSURE FOR BOX AND COIL. AT THE MAXIMUM CFM.
3. HEATING COIL SELECTION BASED ON HEATING MAXIMUM AIR FLOW.

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

UNIT IDENTIFICATION	TYPE	FACE SIZE	NECK SIZE	FRAME TYPE	ACCESSORY	CONSTRUCTION	FINISH	MODEL NUMBER	KEYED NOTES
S-1	DIFFUSER	24x24	SEE PLANS	KEYED NOTE 1	---	STEEL	WHITE	TDC	
S-2	DIFFUSER	NECK SIZE + 1 3/4"	SEE PLANS	KEYED NOTE 1	---	STEEL	WHITE	300FS - HD	HEAVY DUTY
S-3	DIFFUSER	NECK SIZE + 2"	SEE PLANS	KEYED NOTE 1	OBD	STAINLESS STEEL	WHITE	SG-PR-SS	MAXIMUM SECURITY GRADE
S-4	DIFFUSER	NECK SIZE + 1 3/4"	SEE PLANS	KEYED NOTE 1	---	STEEL	WHITE	300RL-HD	HEAVY DUTY
S-5	DIFFUSER	NECK SIZE + 1 3/4"	SEE PLANS	KEYED NOTE 1	---	STEEL	WHITE	300RL	
S-6	DIFFUSER	24x24	SEE PLANS	KEYED NOTE 1	---	STEEL	KEYED NOTE 2	TDC	
R-1	GRILLE	24x12	22x10	KEYED NOTE 1	---	STEEL	WHITE	PAR	
R-2	GRILLE	NECK SIZE + 1 3/4"	SEE PLANS	KEYED NOTE 1	---	STEEL	WHITE	33RL	
R-3	GRILLE	24x12	22x10	KEYED NOTE 1	---	STEEL	KEYED NOTE 2	PAR	
E-1	GRILLE	12x12	10x10	KEYED NOTE 1	---	STEEL	WHITE	PAR	
E-2	GRILLE	NECK SIZE + 2"	10x10	KEYED NOTE 1	OBD	STAINLESS STEEL	WHITE	SG-PR-SS	MAXIMUM SECURITY GRADE
E-3	GRILLE	NECK SIZE + 1 3/4"	SEE PLANS	KEYED NOTE 1	---	ALUMINUM	WHITE	350RL	

GENERAL NOTES:
1. MODEL NUMBERS ARE TITUS UNLESS OTHERWISE NOTED.

KEYED NOTES:
1. CONTRACTOR SHALL COORDINATE EXACT FRAME TYPE WITH ARCHITECTURAL CONSTRUCTION. PROVIDE OPTIONAL PLASTER MOUNTING FRAME IN PLASTER CEILINGS.
2. PRIME EQUIPMENT FOR CUSTOM PAINT COLOR IN FIELD. PAINTING TO BE PROVIDED AND APPLIED BY CONTRACTOR.

KEY PLAN

GRAPHIC SCALE

REVISION BLOCK

MARK	DATE	DESCRIPTION
1	2/15/2023	100% REVISION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

STAMP OR SEAL

STATE OF MICHIGAN
DAVID ANTHONY CONRAD
ENGINEER
No. 62010555580
LICENSED PROFESSIONAL ENGINEER

OWNER IDENTIFICATION

General Services Administration
Public Buildings Service
Great Lakes
Design and Construction,
Project Delivery Division
John C. Kluczynski Federal Building
230 South Dearborn St.
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	RLT
CHECKED BY	DC
FLOOR NO.	N/A
DISCIPLINE	MECHANICAL
PLAN TYPE	SCHEDULES
SHEET NUMBER AND FILENAME	M704

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VENTILATION & AIR BALANCE CALCULATION

PROJ. NAME: GHF GSA TLUSCH CSP

DATA FROM LOADS							VENTILATION CODES															PEOPLE			OUTSIDE AIR						
ARCHITECTURAL ROOM NAME	AREA (SQ. FT) AZ*	SPACE HEIGHT (FT.)	MAX COOLING DESIGN (CFM)	MIN AT FULL OCCUPANCY (CFM)	SPACE VOLUME (CU. FT.)	LOAD (CFM/ SQ. FT)	ROOM NAME (USE) PER CODE	TOTAL MIN AC/HR	MIN AC/HR	OUTDOOR AIR PEOPLE/ 1000 SQ.FT	MIN CFM/PERS RP*	MIN CFM/SQ.FT RA*	EXHAUST AIR MIN CFM/SQ.FT	MIN CFM	OFFSET (+,−,=)	SA REQ'D IN ROOM? (N or Blank)	EA? (E OR BLANK)	FPB (Y OR BLANK)	CO2 SENSOR? (Y OR BLANK)	CONT VOL? (C OR BLANK)	OA PEOPLE RP* X PZ*	OA SQ.FT RA* X AZ*	TOTAL PEOPLE PER CODE	TOTAL PEOPLE OVER−RIDE	TOTAL PEOPLE PZ*	AIR DIS EFF EZ* LEAVE BLANK FOR: 0.8	BREATHING ZONE OA REQ'D VOZ*	CALC ADD'L OA FROM AC/HR	LOWEST SA @ FULL OCC VPZ*	MIN OCC ZP*	OVERRIDE MIN OCC ZP*	MMC EV	ASHRAE EVZ
BASEMENT SALLY PORT HOLDING CELL	45	13.0	13		585	0.3	CELL			25	5	0.12			−		E				6	5	1.1		1.1		14		14	1.00	1.00	0.30	0.80
BASEMENT SALLY PORT ELEVATOR LOBBY	189	13.0	16		2,457	0.1	CORRIDOR					0.06			+							11					14		14	1.00	0.14	1.00	1.66
BASEMENT SALLY PORT CORRIDOR	295	13.0	27		3,832	0.1	CORRIDOR					0.06			+							18					22		22	1.00	0.22	0.93	1.58
SECURITY 1	421	10.0	179		4,205	0.4	CORRIDOR					0.06										25					32		32	1.00	1.00	0.30	0.80
SECURITY BOOTH 1	103	10.0	62		1,025	0.6	OFFICE			5	5	0.06									3	6	0.5		0.5		11		11	1.00	1.00	0.30	0.80
GUN STORAGE	38	10.0			375		UNOCCUPIABLE STORAGE ROOM																										
SECURITY BOOTH 2	77	10.0	55		765	0.7	OFFICE			5	5	0.06									2	5	0.4		0.4		8		8	1.00	1.00	0.30	0.80
2ND FLOOR CORRIDOR 205.1	130	8.0	18		1,036	0.1	CORRIDOR					0.06			+							8					10		10	1.00	0.06	1.00	1.74
2ND FLOOR CORRIDOR 205	382	8.0	52		3,052	0.1	CORRIDOR					0.06			+							23					29		29	1.00	0.14	1.00	1.66
BREAKROOM 1	215	8.0	194		1,722	0.9	BREAKROOM			50	5	0.12		100	+		E				54	26	10.8		10.8		100		100	1.00	0.44	0.71	1.36
BREAKROOM 2	561	8.0	352		4,484	0.6	BREAKROOM			50	5	0.12		100	+		E		Y		140	67	28.0		28.0		259		259	1.00	0.51	0.64	1.29
BUILDING TOTALS:	2,453		967		23,539	0.4															204	194	41		41		498		498				

PROJECT NAME:	GHF GSA TLUSCH CSP	SYSTEM:	(E) AHUS
PROJECT #:	2021.0206.00	DATE:	5/6/2022
APPLICABLE CODES:		ENGINEER:	RLT
IMC/MMC	2021	APPROVED:	RLT
ASHRAE 62.1	2013		
ASHRAE 90.1	2013		
LEED PROJECT? (Y OR N)	N		
100% OA UNIT? (Y OR N)	N		

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Updated 02/06/2018

USMS PUBLICATION 64 VENTILATION CALCULATIONS FOR PRISONER HOLDING

SYSTEM	FLOOR	RECIRC ALLOWED?	USMS DETENTION AREA SPACE NAME	SPACE AREA (SF)	SPACE CEILING HEIGHT (FT)	SPACE VOLUME (CU FT)	EXHAUST AIR 12 ACH (CFM) [(VOLUME/60) X 12]	EXHAUST AIR 12 ACH (CFM) ROUNDED UP	SUPPLY AIR (CFM) (SUPPLY AIR = OA + TA) (THE GREATER OF 10% OR 50 CFM BELOW EXHAUST AIR QUANTITY)	SUPPLY AIR (CFM) ROUNDED DOWN	OUTDOOR AIR 2 ACH (CFM) [(VOLUME/60) X 2]	OUTDOOR AIR 2 ACH (CFM) ROUNDED UP	TRANSFER AIR PORTION OF SUPPLY AIR (CFM) (TA = SA − OA) (TRANSFER AIR MUST BE FROM SPACES OUTSIDE OF USMS DETENTION SPACES)	SUPPLY AIR TO SPACE (CFM)	SUPPLY AIR TO SPACE NOTES	AIR EXHAUSTED FROM SPACE (CFM)	AIR EXHAUSTED FROM SPACE ROUNDED UP (CFM)	AIR EXHAUSTED FROM SPACE NOTES	AIR TRANSFERRED FROM SPACE (CFM)	AIR TRANSFERRED FROM SPACE ROUNDED UP (CFM)	AIR TRANSFERRED FROM SPACE NOTES
BCU−2−1	LEVEL 2	NO	SECOND FLOOR SALLY PORT LOBBY	327	9	2943	588.60	590	531.00	530	98.10	100	430	1110	SUPPLY AIR PERMITTED IN THE ELEVATOR SALLYPORT. SUM OF ELEVATOR SALLYPORT, MANTRAP AND HOLDING CELL SUPPLY AIR.	0.00	0		1270	1270	AIR TRANSFERRED TO CELL 1 AND CELL 2 FROM LOBBY.
BCU−2−1	LEVEL 2	NO	HOLDING CELL 1 AND SALLY PORT 1	187	9	1683	336.60	340	290.00	290	56.10	60	230	0	NO SUPPLY AIR TO SPACE. AIR TRANSFERRED FROM ELEVATOR SALLYPORT VIA TRANSFER GRILLES AND DUCTWORK.	635.00	635	SUM OF HOLDING CELL, MANTRAP AND 1/2 OF ELEVATOR MANTRAP.	0	0	
BCU−2−1	LEVEL 2	NO	HOLDING CELL 2 AND SALLY PORT 2	187	9	1683	336.60	340	290.00	290	56.10	60	230	0	NO SUPPLY AIR TO SPACE. AIR TRANSFERRED FROM ELEVATOR SALLYPORT VIA TRANSFER GRILLES AND DUCTWORK.	635.00	635	SUM OF HOLDING CELL, MANTRAP AND 1/2 OF ELEVATOR MANTRAP.	0	0	
							TOTALS	1270		1110		220	890	1110			1270		1270	1270	

KEY PLAN

GRAPHIC SCALE

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

STAMP OR SEAL

STATE OF MICHIGAN
DAVID ANTHONY CONRAD
ENGINEER
No. 62010555580
LICENSED PROFESSIONAL ENGINEER

OWNER IDENTIFICATION

General Services Administration
Public Buildings Service
Great Lakes
Design and Construction,
Project Delivery Division
John C. Kluczynski Federal Building
230 South Dearborn St.
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	RLT
CHECKED BY	DC
FLOOR NO.	N/A
DISCIPLINE	MECHANICAL
PLAN TYPE	SCHEDULES
SHEET NUMBER AND FILENAME	M705

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TEMPERATURE CONTROL - SYMBOLS LIST

SCHEMATIC SYMBOLS

SYMBOL	DESCRIPTION
CS	CURRENT SWITCH
	DAMPER – PARALLEL BLADE
M	DAMPER MOTOR
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
FS	FLOW SWITCH
FZ	FREEZESTAT
	GUARD FOR STAT OR SENSOR
H	SPACE HUMIDITY SENSOR
H	HUMIDITY SENSOR, DUCT MOUNTED
	LINE – ELECTRIC
	LINE – INSTRUMENT AIR
M/S	MOTOR STARTER
OS	OCCUPANCY SENSOR
R	RELAY, ELECTRIC
AI	SIGNAL – DDC/BAS, ANALOG INPUT
AO	SIGNAL – DDC/BAS, ANALOG OUTPUT
DI	SIGNAL – DDC/BAS, DIGITAL INPUT
DO	SIGNAL – DDC/BAS, DIGITAL OUTPUT

SCHEMATIC SYMBOLS (CONT.)

SYMBOL	DESCRIPTION
DD	SMOKE DETECTOR – DUCT MOUNTED
S/S	START/STOP RELAY
SP	STATIC PRESSURE SENSOR OR PROBE
T	TEMPERATURE SENSOR – DUCT MOUNTED AVG ELEMENT
T	TEMPERATURE SENSOR – DUCT MOUNTED RIGID ELEMENT
T	THERMOSTAT OR TEMPERATURE SENSOR (AS DEFINED ON TC DRAWINGS)
	VALVE – 2 WAY CONTROL VALVE
	VALVE – 3 WAY CONTROL VALVE
VFC	VARIABLE FREQUENCY CONTROLLER

WIRING SYMBOLS

SYMBOL	DESCRIPTION
M/S	COIL – MOTOR STARTER CONTACTOR
R	COIL – RELAY
	CONTACT – INSTANT OPERATING, NO
	CONTACT – INSTANT OPERATING, NC
	GROUND
	MOTOR, SINGLE PHASE

WIRING SYMBOLS (CONT.)

SYMBOL	DESCRIPTION
1 2	SWITCH – 2 POSITION SELECTOR
H O A	SWITCH – 3 POSITION SELECTOR HAND/OFF/AUTO
	SWITCH – TEMPERATURE ACTUATED, NO
	THERMAL OVERLOAD, SINGLE PHASE
OLs	THERMAL OVERLOAD CONTACTS – 3 PHASE
	TRANSFORMER
	WIRE TERMINATION AT DEVICE
	WIRE TO WIRE TERMINATION

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
BAS	BUILDING AUTOMATION SYSTEM
DDC	DIRECT DIGITAL CONTROL
TC	TEMPERATURE CONTROLS
NO	NORMALLY OPEN
NC	NORMALLY CLOSED

NOTES:

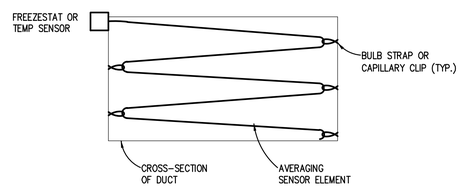
1. SOME SYMBOLS & ABBREVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT.
2. REFER TO MECHANICAL STANDARDS ON DRAWING M 0 01 FOR ADDITIONAL SYMBOLS & ABBREVIATIONS THAT MAY BE USED ON TEMPERATURE CONTROL DRAWINGS.

ABBREVIATION LIST

ABBREVIATION	DESCRIPTION
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AMP	AMPERE
C	COMMON
CFM	CUBIC FEET PER MINUTE
CHWP	CHILLED WATER PUMP
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG	COOLING
CLP	COMPUTER LOOP PUMP
CLR	COMPUTER LOOP RETURN
CLS	COMPUTER LOOP SUPPLY
COND	CONDENSATE
COND(#'S)	CONDENSATE(SPECIFIC POUNDS)
CONT	CONTINUATION OR CONTINUED
COS	CENTRAL OPERATOR STATION
CT	COOLING TOWER
CW	DOMESTIC COLD WATER
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DB	DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREES
DN	DOWN
DPR	DAMPER
DWH	DOMESTIC WATER HEATER
DX	DIRECT EXPANSION
(E)	EXISTING
EA	EXHAUST AIR
EF	EXHAUST FAN
ELEC	ELECTRICAL
EMS	ENERGY MANAGEMENT SYSTEM
ERU	ENERGY RECOVERY UNIT
EXH	EXHAUST
°F	DEGREES FAHRENHEIT
F&B	FACE AND BYPASS DAMPER
FAS	FIRE ALARM SYSTEM
FCU	FAN COIL UNIT
FLR	FLOOR
FM	FLOW MEASURING DEVICE
FT	FEET
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HPLP	HEAT PUMP LOOP PUMP
HPLR	HEAT PUMP LOOP RETURN
HPLS	HEAT PUMP LOOP SUPPLY
HTG	HEATING
HWHR	HOT WATER HEATING RETURN
HWHS	HOT WATER HEATING SUPPLY
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
HX	HEAT EXCHANGER
IN	INCHES
KW	KILOWATT
LBS/HR	POUNDS PER HOUR
MA	MIXED AIR
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MUA	MAKE-UP AIR
MZ	MULTI-ZONE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NSB	NIGHT SETBACK
OA	OUTSIDE AIR
PHR	PERIMETER HEAT RETURN
PHS	PERIMETER HEAT SUPPLY
R	RETURN
RA	RETURN AIR
REL.A	RELIEF AIR
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SF	SUPPLY FAN
SP	STATIC PRESSURE
STM	STEAM
SZ	SINGLE-ZONE
TC	TEMPERATURE CONTROL
TYP	TYPICAL
UV	UNIT VENTILATOR
VUV	VERTICAL UNIT VENTILATOR

TC GENERAL NOTES

1. THESE GENERAL NOTES SHALL BE APPLICABLE FOR ALL TEMPERATURE CONTROL (TC) DRAWINGS.
2. "PROVIDE" IS DEFINED AS "FURNISH AND INSTALL".
3. TEMPERATURE CONTROLS CONTRACTOR (TC CONTRACTOR) SHALL BE RESPONSIBLE TO COMPLY WITH ALL APPLICABLE CODES AND STANDARDS.
4. FOR TEMPERATURE CONTROL DRAWINGS ONLY: ALL DETAILED INFORMATION IDENTIFIED WITH HEAVY LINE WEIGHT SHALL BE PROVIDED BY TC CONTRACTOR. ALL OTHER INFORMATION IDENTIFIED WITH LIGHT LINE WEIGHT SHALL BE PROVIDED BY OTHER TRADES.
5. ALL CONTROL SCHEMATICS AND WIRING DIAGRAMS ARE FOR THE CLARIFICATION OF EQUIPMENT INTERLOCKING FUNCTIONS AND THE INTERFACE OF VARIOUS CONTRACTORS' WORK AND SHALL NOT BE MISTAKEN AS SHOP DRAWINGS FOR ACTUAL INSTALLATION.
6. TC CONTRACTOR SHALL PROVIDE DDC CONTROLLERS AS REQUIRED TO MEET INTENT OF DESIGN DOCUMENTS. REFER TO THE PLANS FOR THE DDC FUNCTIONS THAT APPLY TO EACH MECHANICAL SYSTEM.
7. ALL TC PROVIDED COMPONENTS AND ALL TC CONTRACTOR INSTALLED WIRING SHALL BE LABELED PER SPECIFICATIONS.
8. ALL WIRING AND SYSTEM CONTROL VOLTAGES SHALL BE IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATION AND THE ELECTRICAL SPECIFICATIONS.
9. VARIABLE FREQUENCY CONTROLLER, FAN AND PUMP MOTOR STARTERS, STARTER WIRING, CONTROL VOLTAGE TRANSFORMERS AND ASSOCIATED POWER WIRING SHALL BE PROVIDED BY OTHER TRADES.
10. DUCT SMOKE DETECTORS SHALL BE FURNISHED, INSTALLED AND WIRED TO THE FIRE ALARM SYSTEM BY THE ELECTRICAL CONTRACTOR. ELECTRICAL SHALL PROVIDE FIRE ALARM SYSTEM CONTROL MODULES FOR REQUIRED SAFETIES TO MOTOR STARTERS OR VFC'S AS INDICATED. CONTROL MODULES SHALL BE LOCATED NEAR RESPECTIVE MOTOR STARTERS OR VFCs. TC CONTRACTOR SHALL PROVIDE INTERLOCK WIRING FROM CONTROL MODULES TO MOTOR STARTERS OR VFCs.
11. ALL DDC AND CONTROL INTERLOCK WIRING SHALL BE BY TC CONTRACTOR UNLESS OTHERWISE NOTED. TC CONTRACTOR SHALL COORDINATE WITH VFC AND MOTOR STARTER SUPPLIERS TO DETERMINE EXACT WIRING REQUIREMENTS AND TERMINATION POINTS.
12. ALL DDC AND CONTROL INTERLOCK WIRING BETWEEN COMPONENTS SHALL BE INSTALLED WITHOUT INTERMEDIATE STOPS. WIRE SPLICING AT INTERMEDIATE TERMINAL STRIPS IS NOT ACCEPTABLE.
13. ALL ELECTRICAL WIRING AND RACEWAY SYSTEMS SHALL COMPLY WITH ELECTRICAL SPECIFICATION REQUIREMENTS. WHERE RACEWAY IS REQUIRED, TWO SEPARATE ELECTRICAL RACEWAY SYSTEMS SHALL BE PROVIDED: ONE FOR 120V WIRING AND THE OTHER FOR 24V WIRING.
14. TC CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER SUPPLIES REQUIRED FOR TC SYSTEM UNLESS OTHERWISE NOTED. REFER TO ELECTRICAL PANEL SCHEDULES FOR SPARE CIRCUITS OR CIRCUITS DEDICATED TO TEMPERATURE CONTROLS. COORDINATE CIRCUIT USE WITH ELECTRICAL CONTRACTOR.
15. TC CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL FIELD MOUNTED COMPONENTS.
16. THERMOSTATS AND SPACE TEMPERATURE SENSORS SHALL BE MOUNTED 4'-0" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. PROVIDE GUARDS FOR SPACE TEMP SENSORS LOCATED IN PUBLIC AREA.
17. TC CONTRACTOR SHALL PROVIDE AUXILIARY PANELS FOR REQUIRED PANEL MOUNTED EQUIPMENT SUCH AS RELAYS, TRANSDUCERS, CONTROL TRANSFORMERS, ETC. AUXILIARY PANELS SHALL BE LOCATED NEXT TO ASSOCIATED DDC PANEL. DEPENDING ON WIRE QUANTITY OR COMPLEXITY, PROVIDE CONDUITS BETWEEN PANELS OR WIRING THROUGH WITH CONDUIT STUBS ABOVE ALL ASSOCIATED PANELS.
18. REMOTELY MOUNTED FIELD DEVICES SUCH AS RELAYS, CONTROL TRANSFORMERS, ETC., SHALL BE HOUSED IN AN ENCLOSURE PROVIDED BY THE TC CONTRACTOR.
19. CONTROL TRANSFORMERS WHEN REQUIRED SHALL BE SIZED FOR 150% OF ACTUAL LOAD.
20. FREEZESTATS SHALL BE MOUNTED ON UPSTREAM FACE OF COOLING COILS. FREEZESTAT QUANTITY SHALL BE ONE PER 20 SQ. FT OF CROSS SECTIONAL AREA.
21. CURRENT SWITCHES USED FOR OPERATIONAL STATUS SHALL HAVE CURRENT THRESHOLD SETPOINT ADJUSTED TO INDICATE BELT OR DRIVE FAILURE.
22. ALL CONTROL VALVES, CONTROL DAMPERS AND ASSOCIATED CONTROL ACTUATORS IDENTIFIED ON TC DRAWINGS SHALL BE FURNISHED BY TC CONTRACTOR UNLESS OTHERWISE NOTED. DAMPER SIZE AND LOCATIONS ARE INDICATED ON MECHANICAL FLOOR PLAN DRAWINGS.
23. ALL CONTROL VALVES AND DAMPERS FURNISHED BY THE TC CONTRACTOR SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR. ALL PIPE PENETRATIONS AND BASIC FITTINGS REQUIRED FOR SENSOR INSTALLATIONS SHALL BE PROVIDED BY MECHANICAL CONTRACTOR.
24. DAMPER ACTUATORS SHALL BE INSTALLED BY TC CONTRACTOR WHEN FURNISHED BY TC CONTRACTOR.
25. ALL INSTRUMENTATION TUBING REQUIRED FOR DPS AND DPT COMPONENT INSTALLATIONS SHALL BE PROVIDED BY TC CONTRACTOR.
26. TC CONTRACTOR SHALL FIELD MOUNT ALL REQUIRED "SHIPPED LOOSE" PACKAGED CONTROL COMPONENTS FURNISHED BY EQUIPMENT SUPPLIERS WHERE INDICATED. ALL REQUIRED 24V AND 120V FIELD WIRING SHALL BE PROVIDED BY TC CONTRACTOR UNLESS NOTED OTHERWISE. TC CONTRACTOR SHALL COORDINATE SPECIFIC SYSTEM WIRING REQUIREMENTS WITH PACKAGED EQUIPMENT SUPPLIERS.

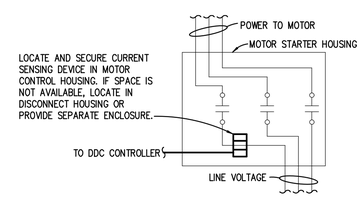


AVERAGING ELEMENT INSTALLATION DETAIL

TYPICAL

NOTES:

1. FREEZESTAT QUANTITY SHALL BE ONE PER 20 SQ. FT. OF CROSS-SECTIONAL AREA.
2. AVERAGING DDC SENSOR QUANTITY SHALL BE SUFFICIENT TO COVER AND SENSE THE CROSS-SECTIONAL AREA.
3. PROVIDE REQUIRED CAPILLARY STRAP OR CLIPS TO SUPPORT SENSOR TO PREVENT VIBRATION FROM AIR MOVEMENT.
4. PROVIDE PROTECTION AT EACH CAPILLARY STRAP OR CLIP TO PREVENT ABRASION TO CAPILLARY.

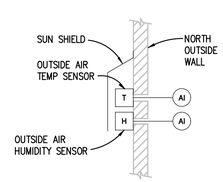


CURRENT SWITCH INSTALLATION DETAIL

TYPICAL

NOTES:

1. WHERE INDICATED ON CONTROL DETAILS, CURRENT SWITCHES SHALL BE INSTALLED FOR DDC SYSTEM STATUS INDICATION OF FAN OR PUMP OPERATION. APPROPRIATE TIME DELAY FOR STATUS FEEDBACK UPON DDC START AND STOP COMMANDS SHALL BE INCLUDED WITH THE DDC LOGIC TO AVOID NUISANCE OPERATIONAL ALARMS.
2. AS APPLICABLE, CURRENT SWITCH SHALL BE ADJUSTED TO MEET THE CURRENT DRAW REQUIRED TO DETECT FAN BELT LOSS, PUMP COUPLING DETACHMENT, OR VFC LOSS.
3. WHEN FAN OR PUMP IS ON AND NOT IN ALARM, DDC SYSTEM SHALL TOTALIZE RUN TIME HOURS FOR OPERATOR INFORMATION FROM BUILDING AUTOMATION SYSTEM OPERATOR INTERFACE.

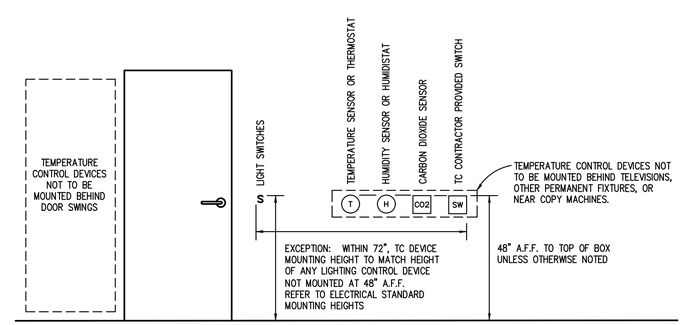


OA SENSOR INSTALLATION DETAIL

NO SCALE

NOTES:

1. REUSE THE EXISTING OA TEMP AND HUMIDITY SENSORS AS AVAILABLE FOR BUILDING.
2. CALCULATE OA ENTHALPY OR DEW POINT TEMPERATURE AS REQUIRED PER SEQUENCE OF OPERATION REQUIREMENTS.
3. BROADCAST OUTSIDE AIR TEMPERATURE, HUMIDITY, AND CALCULATED OA ENTHALPY OR DEW POINT TEMPERATURE, AS REQUIRED, THROUGH BAS COMMUNICATION NETWORK TO CONTROLLERS REQUIRING INFORMATION FOR DDC PROGRAMMING LOGIC.



TC DEVICE STANDARD MOUNTING HEIGHTS DETAIL

NO SCALE

KEY PLAN

GRAPHIC SCALE

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

STAMP OR SEAL

STATE OF MICHIGAN
DAVID ANTHONY CONRAD
ENGINEER
No. 6201055589
LICENSED PROFESSIONAL ENGINEER

OWNER IDENTIFICATION

General Services Administration
Public Buildings Service
Great Lakes
Design and Construction,
Project Delivery Division
John C. Kluczynski Federal Building
230 South Dearborn St.
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	RLT
CHECKED BY	DC
FLOOR NO.	N/A
DISCIPLINE	MECHANICAL
PLAN TYPE	TEMPERATURE CONTROLS
SHEET NUMBER AND FILENAME	M801

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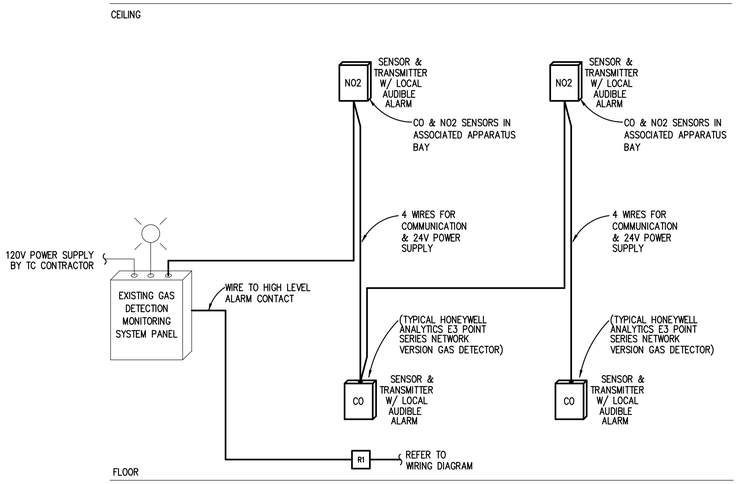
TC GENERAL NOTES

TC GENERAL NOTES ON DRAWING M801 APPLY TO THIS DRAWING.



SALLYPORT (E)GAS DETECTION MONITORING UPGRADE SALLYPORT/GARAGE VENTILATION

NOTES:

1. REFER TO MECHANICAL FLOOR PLANS FOR SENSOR AND DEVICE QUANTITIES & LOCATIONS.
2. TC CONTRACTOR SHALL PROVIDE GAS DETECTION SENSORS AS SPECIFIED.

SEQUENCE OF OPERATION:

1. REUSE THE EXISTING SEQUENCE OF OPERATION FOR THE GAS MONITORING AND ALARM PANEL USING NEW SENSORS PROVIDED IN THIS PROJECT.
2. ALL FANS LISTED IN SALLYPORT/GARAGE AIRFLOW SCHEDULE AT ZERO (0) CFM ARE OFF.

OCCUPIED MODE OPERATION:

3. GAS DETECTION SYSTEM IS "NORMAL" – NO HIGH LEVEL CONCENTRATION OF GASES DETECTED.
4. REFER TO THE SALLYPORT/GARAGE AIRFLOW SCHEDULE FOR WHICH FANS OPERATE AT WHAT DESIGN CFM.
5. DDC SHALL COMMAND THE FANS TO THE DESIGN CFM LISTED IN THE SCHEDULE. TAB CONTRACTOR SHALL DETERMINE SPEED SETTINGS DURING AIR BALANCE.

GAS PURGE MODE (OCCUPIED OR UNOCCUPIED):

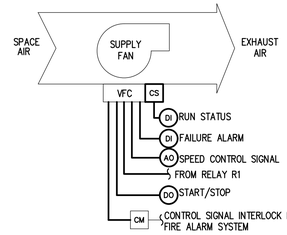
6. IF THE DETECTION SYSTEM DETECTS HIGH LEVEL(S) OF GAS(ES), IT SHALL ENERGIZE RELAY R1.
3. REFER TO THE SALLYPORT/GARAGE AIRFLOW SCHEDULE FOR WHICH FANS OPERATE AND AT WHAT CFM.
5. RELAY R1 SHALL OVERRIDE SUPPLY FAN SF-B-1 AND SF-B-2 VFCs TO MAXIMUM DESIGN CFM. SF-B-2 DDC VFC SPEED CONTROL IS ONLY FOR FUTURE USE. TAB CONTRACTOR SHALL DETERMINE SPEED SETTINGS DURING AIR BALANCE.
6. DDC SHALL COMMAND EXHAUST FAN EF-B-1, EF-B-2, (E)EF-B-3, (E)EF-B-4, (E)EF-B-5, AND EF-B-6 TO THE SPEEDS (CFM) LISTED IN THE SCHEDULE. TAB CONTRACTOR SHALL DETERMINE SPEED SETTINGS DURING AIR BALANCE.

UNOCCUPIED MODE OPERATION:

7. DDC SHALL COMMAND EXHAUST FAN EF-B-2 TO THE DESIGN CFM LISTED IN THE SCHEDULE. TAB CONTRACTOR SHALL DETERMINE SPEED SETTING DURING AIR BALANCE. ALL OTHER FANS ARE OFF PER THE SCHEDULE.

GENERAL:

8. ALL FAN STATUSES SHALL BE MONITORED BY DDC THRU RESPECTIVE CURRENT SWITCHES. ABNORMAL STATUS CONDITIONS SHALL ACTIVATE ALARMS TO THE BAS. DDC SHALL MONITOR CURRENT SWITCHES AND PROVIDE THE BAS WITH HOURS OF RUN TIME INFORMATION FOR DISPLAY FOR ALL FANS.
9. VFC COMMON FAILURE ALARM FOR EACH SUPPLY FAN SHALL BE MONITORED BY DDC THRU AVAILABLE CONTACTS AT RESPECTIVE VFC. AN ALARM SHALL BE PROVIDED AT THE BAS.



TYP. FOR SF-B-1 & SF-B-2 CONTROL

NOTE:

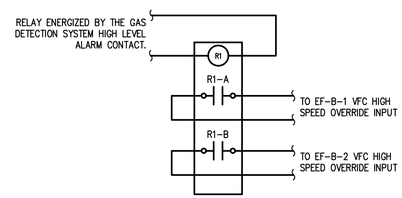
1. WIRING DETAIL IDENTIFIES INTENT AND DOES NOT INDICATE ACTUAL WIRING REQUIREMENTS. CONSULT WITH ECM SUPPLIER FOR THE ACTUAL WIRING REQUIREMENTS.
2. MOUNT CURRENT SWITCH ON MOTOR LEADS.

SEQUENCE OF OPERATION:

1. REFER TO GAS DETECTION SYSTEM FOR SEQUENCE OF OPERATION.

SALLYPORT/GARAGE AIRFLOW SCHEDULE				
EQUIP.	OCCUPIED MODE	GAS PURGE MODE	UNOCCUPIED MODE	NOTE
SF-B-1	3500	9500	0	1
SF-B-2	0	9500	0	1
EF-B-1	0	-4500	0	1
EF-B-2	-1910	-1910	0	1
(E)EF-B-3	-790	-790	-300	1, 2
(E)EF-B-4	0	-5505	0	1, 2
(E)EF-B-5	0	-5505	0	1, 2
EF-B-6	-800	-900	0	1
NET AIRFLOW	0	-110	-300	

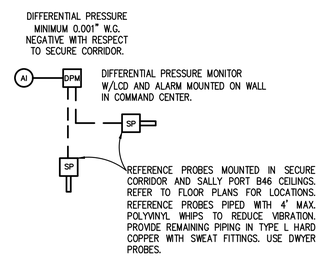
NOTE:
1. NUMERIC VALUES ARE CFM.
2. (E)EF'S ARE EXISTING FANS WITH EC MOTORS.



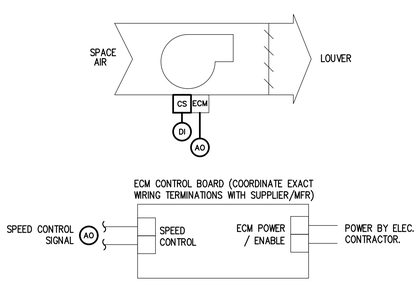
GAS DETECTION SYSTEM AND EXHAUST FAN INTERLCOK CONTROL WIRING

NOTE:

1. MOUNT CONTROL RELAY IN GAS DETECTION PANEL OR IN DDC AUXILAIRY CONTROL PANEL.



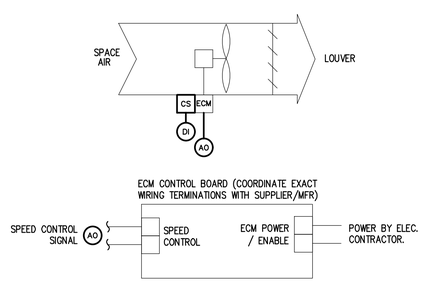
SALLYPORT PRESSURIZATION MONITOR



EF-B-1, -B-2, & -B-6 ECM CONTROL WIRING

NOTES:

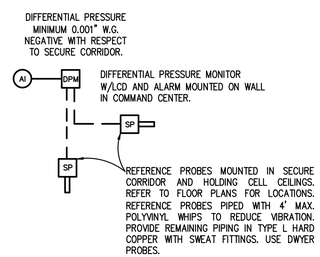
1. WIRING DETAIL IDENTIFIES INTENT AND DOES NOT INDICATE ACTUAL WIRING REQUIREMENTS.
2. CONSULT WITH ECM SUPPLIER FOR THE ACTUAL WIRING REQUIREMENTS.
3. MOUNT CURRENT SWITCH ON MOTOR LEADS.



(E)EF-B-3, -B-4, & -B-5 ECM CONTROL WIRING

NOTES:

1. WIRING DETAIL IDENTIFIES INTENT AND DOES NOT INDICATE ACTUAL WIRING REQUIREMENTS.
2. CONSULT WITH ECM SUPPLIER FOR THE ACTUAL WIRING REQUIREMENTS.
3. MOUNT CURRENT SWITCH ON MOTOR LEADS.



HOLDING CELL PRESSURIZATION MONITOR

KEY PLAN

GRAPHIC SCALE

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

STAMP OR SEAL

STATE OF MICHIGAN
DAVID ANTHONY CONRAD
ENGINEER
No. 6201055589
LICENSED PROFESSIONAL ENGINEER

OWNER IDENTIFICATION

GSA
General Services Administration
Public Buildings Service
Great Lakes
Design and Construction,
Project Delivery Division
John C. Kluczynski Federal Building
230 South Dearborn St.
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	RLT
CHECKED BY	DC
FLOOR NO.	N/A
DISCIPLINE	MECHANICAL
PLAN TYPE	TEMPERATURE CONTROLS
SHEET NUMBER AND FILENAME	M802

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TC GENERAL NOTES

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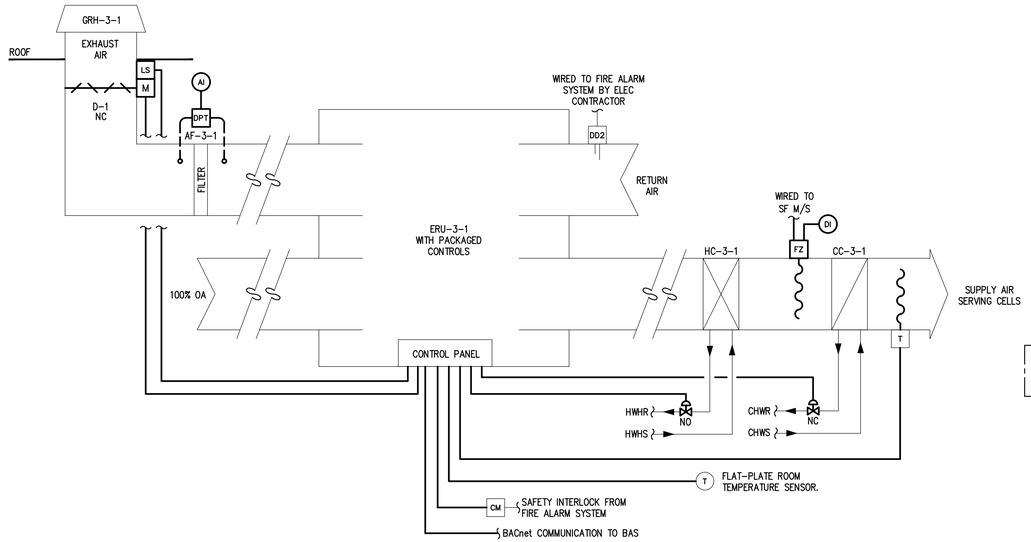


2ND FLOOR HOLDING CELLS ERU-3-1 CONTROL

NOTES:

1. ENERGY RECOVERY UNIT SHALL BE SUPPLIED FOR PROJECT WITH COMPLETE PACKAGED CONTROLS FROM MANUFACTURER INCLUDING DDC CONTROLLER, BACnet COMMUNICATION INTERFACE FOR BAS SCHEDULING, ALL SENSORS & DEVICES FOR CONTROLS, CONTROL DAMPERS, SPACE TEMPERATURE SETPOINT ADJUSTMENT AND UNIT MONITORING.
2. TC CONTRACTOR SHALL INSTALL SPACE AND DISCHARGE AIR TEMPERATURE SENSORS FURNISHED BY UNIT SUPPLIER AND PROVIDE CONTROL FIELD WIRING FOR UNIT AS INDICATED PLUS ANY MISCELLANEOUS FIELD CONTROL WIRING THAT MAY BE REQUIRED FOR PACKAGED UNIT THAT IS NOT SHOWN. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS.
3. TC CONTRACTOR SHALL PROVIDE BACnet COMMUNICATION INTERFACE WIRING FROM ERU CONTROL PANEL TO NEW BAS NETWORK SUPERVISORY CONTROLLER.
4. TC CONTRACTOR AND ELECTRICAL CONTRACTOR SHALL COORDINATE WITH EQUIPMENT SUPPLIER FOR EXACT WIRING REQUIREMENTS.
5. SPACE DIFFERENTIAL PRESSURE SETPOINT TO BE DETERMINED BY TAB CONTRACTOR'S FINAL BALANCE REPORT. REFER TO MECHANICAL DRAWINGS FOR STATIC REFERENCE SENSORS.
6. ERU SUPPLIER REPRESENTATIVE SHALL PROVIDE PERSONNEL FOR START-UP, PROGRAMMING, AND COORDINATION WITH TC CONTRACTOR FOR INTEGRATION TO THE BAS.

SEQUENCE OF OPERATION

ERU-1 SEQUENCE OF OPERATION:

NOTE: ALL SETPOINTS, RESET SETPOINTS, DEADBANDS, DELAY TIMERS, ETC., DESCRIBED IN THE SEQUENCE OF OPERATION SHALL BE ADJUSTABLE BY BUILDING AUTOMATION SYSTEM (BAS) OPERATORS. APPROPRIATE DEADBANDS SHALL BE USED TO PREVENT SHORT CYCLING SITUATIONS. ALL MOTOR CONTROL SWITCHES SHALL BE IN "AUTO" POSITION.

1. PACKAGED CONTROLS SHALL MAINTAIN SPACE TEMPERATURE SETPOINTS WITH MANUFACTURER'S SEQUENCE OF OPERATION. PACKAGED CONTROLS SHALL PROVIDE POINTS AS AVAILABLE AND SHOWN HEREIN. DEHUMIDIFICATION UNIT SHALL PROVIDE CONSTANT VOLUME AIRFLOW AND 100% OUTSIDE AIRFLOW.
2. PACKAGED CONTROLS SHALL PROVIDE DISCHARGE AIR TEMPERATURE (DAT) HIGH LIMIT SETPOINT OF 90°F AND LOW LIMIT SETPOINT OF 55°F.
3. PACKAGED CONTROLS SHALL MAINTAIN SPACE SLIGHTLY NEGATIVE VIA SUPPLY/EXHAUST FAN VFC CONTROL SETTINGS BASED ON TAB CONTRACTOR'S FINAL AIR BALANCE.
4. BACnet COMMUNICATION INTERFACE BY MFR. SHALL ALLOW UNIT OCCUPIED/UNOCCUPIED SCHEDULING & TEMPERATURE SETPOINTS, FAN STATUSES, SPACE TEMPERATURE, AND ADDITIONAL UNIT MONITORING AS AVAILABLE, FROM THE BAS.
5. FREEZESTAT SHALL DEACTIVATE ERU WHEN TEMPERATURE IS 35°F OR BELOW. DDC SHALL PROVIDE FREEZESTAT ALARM TO THE BAS.
6. DUCT SMOKE DETECTOR(S) SHALL DEACTIVATE SF AND EF WHEN PRODUCTS OF COMBUSTION ARE DETECTED.
7. EXHAUST AIR FILTER STATUS SHALL BE MONITORED BY DDC THRU DIFFERENTIAL PRESSURE (DP) TRANSMITTER (DPT). WHEN FILTER DP INCREASES TO WITHIN 0.2 INCHES W.G. OF THE LOADED FILTER DP SETPOINT, DDC SHALL PROVIDE A "LOADED FILTER WARNING" MESSAGE TO THE BAS. WHEN FILTER DP INCREASES TO THE LOADED FILTER DP SETPOINT, DDC SHALL PROVIDE A "LOADED FILTER ALARM" TO THE BAS. TC CONTRACOTR SHALL ESTABLISH SETPOINTS BASED ON THE FILTER MANUFACTURER'S LOADED FILTER DATA.
8. BAS SHALL PROVIDE OCCUPIED HOURS OF OPERATION AND TEMPERATURE SETPOINTS..
9. PACKAGED CONTROLS SHALL MAINTAIN SPACE TEMPERATURE SETPOINTS SHALL BE AS FOLLOWS:

   HEATING UNOCCUPIED SETPOINT = 62°F

   HEATING OCCUPIED SETPOINT = 70°F

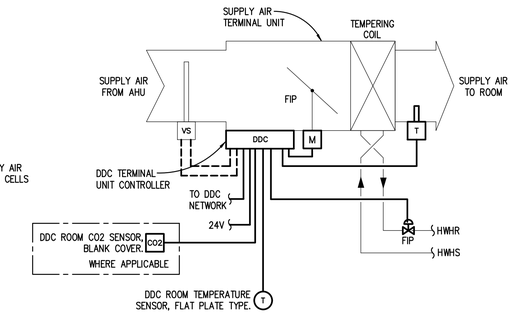
   COOLING OCCUPIED SETPOINT = 75°F

   COOLING UNOCCUPIED SETPOINT = 80°F

10. TC CONTRACTOR SHALL PROVIDE ERU COMMUNICATION INTERFACE WIRING TO NEW BAS NETWORK SUPERVISORY CONTROLLER, COMMUNICATING BUT NOT LIMITED TO THE FOLLOWING POINTS AS AVAILABLE:

- OCCUPANCY MODE SCHEDULE (FROM BAS)
- SPACE TEMPERATURE SETPOINTS (FROM BAS)
- DAT HIGH/LOW TEMPERATURE SETPOINTS (FROM BAS)
- EFFECTIVE OCCUPANCY MODE (TO BAS)
- OUTSIDE AIR DAMPER OPEN/CLOSED POSITION (TO BAS)
- SUPPLY FAN ON/OFF /ALARM STATUS (TO BAS)
- EXHAUST FAN ON/OFF /ALARM STATUS (TO BAS)
- SUPPLY FAN VFC SIGNAL (TO BAS)
- EXHAUST FAN VFC SIGNAL (TO BAS)
- DISCHARGE, OUTSIDE AIR, AND SPACE TEMPERATURE (TO BAS
- SPACE TEMPERATURE (TO BAS)
- HEATING/COOLING MODE STATUS (TO BAS)
- HEATING COIL VALVE OUTPUT STATUS (TO BAS)
- COOLING COIL VALVE OUTPUT STATUS (TO BAS)
- DIRTY UNIT FILTER(S) STATUS/ALARM (TO BAS)
- MISC UNIT TEMPERATURE MONITORING (TO BAS)
- TEMP SENSOR FAILURE ALARMS (TO BAS)
- UNIT SAFETY CUTOUT ALARMS (TO BAS)
- OTHER MISC ALARMS (TO BAS)
- PROVIDE UP TO 15 ADDITIONAL POINTS. COORDINATE WITH OWNER STAFF. (TO BAS)

11. WHEN ERU-3-1 IS ENERGIZED TO OPERATE, THE PACKAGED CONTROLLER SHALL OPEN GRH-3-1 DAMPER. LIMIT SWITCH SHALL PROVIDE PROOF OF DAMPER OPEN FOR UNIT TO OPERATE.



AIR TERMINAL UNIT VAV CONTROL

REFER TO AIR TERMINAL UNIT SCHEDULE FOR APPLICATION.

NOTES:

1. TC CONTRACTOR SHALL PROVIDE 24V POWER SUPPLY AND BACNET NETWORK WIRING TO TERMINAL UNIT CONTROLLER.
2. TERMINAL UNIT MANUFACTURER SHALL PROVIDE DAMPER AND TC CONTRACTOR SHALL PROVIDE DAMPER ACTUATOR.
3. TERMINAL UNIT MANUFACTURER SHALL PROVIDE VELOCITY SENSOR FOR SYSTEM CONTROL. TC CONTRACTOR SHALL COORDINATE WITH TAB CONTRACTOR TO DETERMINE DAMPER CONTROL SETTINGS TO ACHIEVE SCHEDULED CFM.
4. TC CONTRACTOR SHALL FURNISH CONTROL VALVE FOR HEATING ELEMENTS PER THE MECHANICAL DETAILS. SELECT CONTROL VALVES TO ACHIEVE THE SCHEDULED FLOW RATES.

SEQUENCE OF OPERATION

AIR TERMINAL UNIT VAV-B-1-18:

NOTE: ALL SETPOINTS, DEADBANDS, AND TIME DELAYS DESCRIBED IN SEQUENCE OF OPERATION SHALL BE ADJUSTABLE BY THE COMMAND CENTER. APPROPRIATE DEADBANDS SHALL BE USED TO PREVENT SHORT CYCLING SITUATIONS.

1. AIR TERMINAL UNIT'S (TU) SUPPLY AIR TU CONTROLLER SHALL PROVIDE CAV AIRFLOW CONTROL PER THE MECHANICAL SCHEDULE.
2. CONTROL TEMPERATURE SETPOINTS SHALL BE ADJUSTABLE FROM COMMAND CENTER.
3. SPACE TEMPERATURE SHALL BE DISPLAYED AT COMMAND CENTER.
4. IN ALL MODES OF HEATING, TU DISCHARGE AIR TEMP SENSOR SHALL PROVIDE HIGH LIMIT SETPOINT CONTROL AT 90°F DAT.
5. WHEN SPACE TEMP RISES ABOVE THE COOLING SETPOINT, THE SUPPLY AIR TU CONTROLLER SHALL MODULATE THE TEMPERING COIL VALVE TOWARDS CLOSED AND MAINTAIN CONSTANT SUPPLY AIRFLOW TO MAINTAIN ROOM TEMP SETPOINT.
6. WHEN SPACE TEMP DROPS BELOW THE HEATING SETPOINT, THE SUPPLY AIR TU CONTROLLER SHALL MODULATE THE TEMPERING COIL VALVE TOWARDS OPEN AND MAINTAIN CONSTANT SUPPLY AIRFLOW TO MAINTAIN ROOM TEMP SETPOINT.
7. SPACE TEMPERATURE SETPOINTS SHALL BE AS FOLLOWS:

   HEATING UNOCCUPIED SETPOINT = 62°F

   HEATING OCCUPIED SETPOINT = 70°F

   COOLING OCCUPIED SETPOINT = 75°F

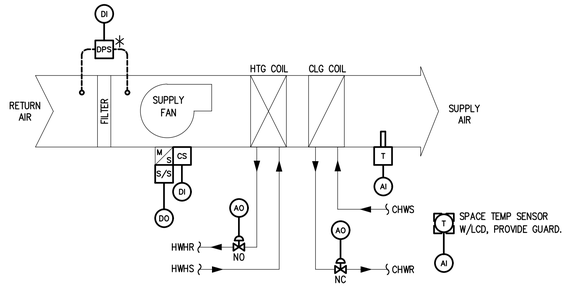
   COOLING UNOCCUPIED SETPOINT = 80°F

8. WHERE APPLICABLE:

   8.1. WHEN SPACE CARBON DIOXIDE LEVEL RISES ABOVE 1100 PPM SETPOINT, THE SUPPLY AIR TU CONTROLLER SHALL OVERRIDE TEMPERATURE CONTROL AND MODULATE DAMPER OPEN TO INCREASE SUPPLY AIRFLOW UNTIL CO2 SETPOINT IS SATISFIED. THE TEMPERING COIL VALVE SHALL BE MODULATED TO MAINTAIN SPACE TEMP SETPOINT. THERE IS NO REQUIREMENT TO INCREASE OUTSIDE AIRFLOW AT RELATED AIR HANDLER IF CO2 LEVEL IS ABOVE SETPOINT WHEN TU DAMPER IS AT MAX POSITION.

   8.2. WHEN SPACE CARBON DIOXIDE LEVEL FALLS BELOW 700 PPM SETPOINT AFTER BEING IN VENTILATION OVERRIDE MODE, THE TU DAMPER CONTROL SHALL REVERT BACK TO NORMAL MODE FOR TEMPERATURE CONTROL.

9. DURING BUILDING UNOCCUPANCY, THE RELATED AHU SHALL CYCLE AS REQUIRED TO MAINTAIN BUILDING SETBACK AND SETUP TEMP SETPOINTS.
10. WHEN RESPECTIVE AHU IS DEACTIVATED, THE TERMINAL UNIT TEMPERING COIL CONTROL VALVE SHALL REMAIN CLOSED.
11. WHEN RESPECTIVE AHU IS OPERATING IN WARM-UP OR PURGE MODES, THE TERMINAL UNIT SHALL MAINTAIN ITS MAXIMUM AIRFLOW SETTING UNTIL SPACE OCCUPIED TEMPERATURE SETPOINT IS ACHIEVED.
12. THE DDC TU CONTROLLER SHALL RECALIBRATE THE AIRFLOW SENSOR AND RESET FLOATING CONTROL DAMPER AND CONTROL VALVE ACTUATOR ONCE A WEEK MINIMUM. THE RECALIBRATION AND RESET PROCESS SHALL OCCUR WHEN RESPECTIVE AHU DEACTIVATED. IF AHU OPERATES CONTINUOUSLY, THE RECALIBRATION AND RESET PROCESS SHALL BE STAGGERED AMONGST THE TERMINAL UNITS SO THE DUCT STATIC PRESSURE DOES NOT EXCEED LIMITS.
13. DISCHARGE AIR TEMP SHALL BE MONITORED FOR SYSTEM DIAGNOSTICS AND PROVIDE HIGH LIMIT CONTROL AS DESCRIBED.
14. CONTROL SIGNALS FOR AIR TERMINAL UNIT DAMPER ACTUATOR AND HEATING CONTROL OUTPUT(S) SHALL BE DISPLAYED WITH SYSTEM GRAPHICS.



BLOWER COIL UNIT CONTROL

TYPICAL

NOTES:

1. ✳ INDICATES PANEL MOUNTED COMPONENT.
2. BCU IS FOR RECIRULATION AIR ONLY HEATING/COOLING CONTROL.

SEQUENCE OF OPERATION

BLOWER COIL UNIT:

NOTE: ALL DDC SETPOINTS, RESET SETPOINTS, DEADBANDS, AND TIME DELAYS DESCRIBED IN THE SEQUENCE OF OPERATION SHALL BE ADJUSTABLE BY BUILDING AUTOMATION SYSTEM (BAS) OPERATORS. APPROPRIATE DEADBANDS SHALL BE USED TO PREVENT SHORT CYCLING SITUATIONS.

1. SUPPLY FAN SHALL HAVE START/STOP CAPABILITY FROM THE DDC SYSTEM. FAN SHALL OPERATE BASED ON BAS TIME OF DAY SCHEDULED OCCUPIED MODE AND NIGHT CYCLE MODE. IN OCCUPIED MODE, SF SHALL RUN CONTINUOUSLY.
2. SUPPLY FAN STATUS SHALL BE MONITORED BY DDC THRU CURRENT SWITCH. SF CURRENT SWITCH SHALL PROVIDE FEEDBACK TO ENABLE TEMPERATURE CONTROLS. ABNORMAL STATUS CONDITION FOR SF SHALL ACTIVATE ALARM.
3. WHEN HEATING, DDC SHALL PROVIDE DAT HIGH LIMIT SETPOINT CONTROL AT 100°F.
4. WHEN COOLING, DDC SHALL PROVIDE DAT LOW LIMIT SETPOINT CONTROL AT 55°F.
5. DDC SHALL PREVENT OVERLAP OF COOLING AND HEATING CONTROL.
6. WHEN SPACE TEMP IS BELOW SETPOINT, DDC SHALL MODULATE THE HWH COIL VALVE TO MAINTAIN SPACE TEMP SETPOINT. DDC SHALL CLOSE THE CHW COIL VALVE.
7. WHEN SPACE TEMP IS ABOVE SETPOINT, DDC SHALL MODULATE THE CHW COIL VALVE TO MAINTAIN SPACE TEMP SETPOINT. DDC SHALL CLOSE THE HWH COIL VALVE.
8. SPACE TEMPERATURE SETPOINTS SHALL BE AS FOLLOWS:

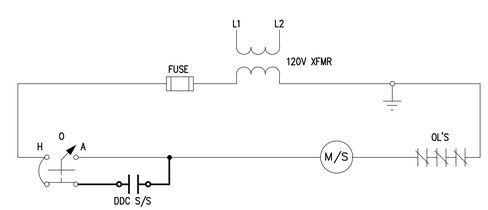
   HEATING UNOCCUPIED SETPOINT = 62°F

   HEATING OCCUPIED SETPOINT = 70°F

   COOLING OCCUPIED SETPOINT = 75°F

   COOLING UNOCCUPIED SETPOINT = 80°F

9. DDC SHALL MONITOR FILTER STATUS THRU DIFFERENTIAL PRESSURE (DP) SWITCHES (DPS). WHEN DP REACHES DP SETPOINT AND DPS SWITCH CLOSES, DDC SHALL ACTIVATE DIRTY FILTER ALARM. INITIAL SETPOINT SHALL BE +1.0 INCH W.G. TC CONTRACTOR SHALL ADJUST DPS FOR THE FILTER MANUFACTURER'S LOADED FILTER DATA.
10. WHEN BCU IS DEACTIVATED, SF SHALL BE OFF, HWH AND CHW VALVES SHALL CLOSE TO THEIR RESPECTIVE COILS.
11. IN UNOCCUPIED MODE, DDC SHALL CYCLE BCU ON/OFF TO MAINTAIN UNOCCUPIED HEATING AND COOLING SETPOINT. DDC SHALL PROVIDE 4°F DEADBAND FOR CONTROL.



BCU SF M/S WIRING

TYPICAL

NOTES:

1. MOUNT CURRENT SWITCH ON MOTOR LEADS.

KEY PLAN

GRAPHIC SCALE

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

STAMP OR SEAL

STATE OF MICHIGAN
DAVID ANTHONY CONRAD
ENGINEER
No. 6201055589
LICENSED PROFESSIONAL ENGINEER

OWNER IDENTIFICATION

GSA
General Services Administration
Public Buildings Service
Great Lakes
Design and Construction,
Project Delivery Division
John C. Kluczynski Federal Building
230 South Dearborn St.
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	RLT
CHECKED BY	DC
FLOOR NO.	N/A
DISCIPLINE	MECHANICAL
PLAN TYPE	TEMPERATURE CONTROLS
SHEET NUMBER AND FILENAME	M803

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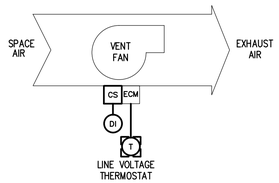
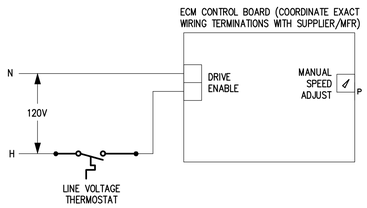


VF-B-1 M/S CONTROL WIRING

SEQUENCE OF OPERATION:

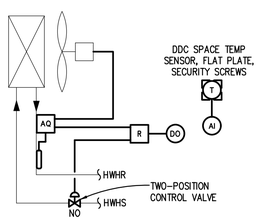
1. ELECTRICAL CLOSET VENTILATION FAN VF-B-1 SHALL BE STARTED AND STOPPED BY SPACE MOUNTED LINE VOLTAGE THERMOSTAT AT 78°F SETPOINT (ADJUSTABLE AT THERMOSTAT).
2. DDC SHALL MONITOR VF RUN STATUS FOR RUN TIME HOURS OF OPERATION AND BAS DISPLAY.



VF-B-1 ECM CONTROL WIRING

NOTE:

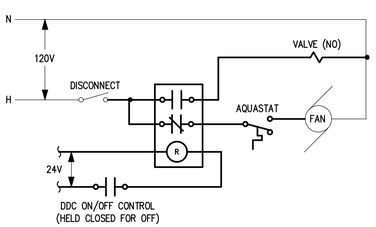
1. WIRING DETAIL IDENTIFIES INTENT AND DOES NOT INDICATE ACTUAL WIRING REQUIREMENTS. CONSULT WITH ECM SUPPLIER FOR THE ACTUAL WIRING REQUIREMENTS.
2. MOUNT CURRENT SWITCH ON MOTOR LEADS.
3. TAB CONTRACTOR SHALL SET SPEED CONTROL OF FAN BASED ON FINAL AIR BALANCE.



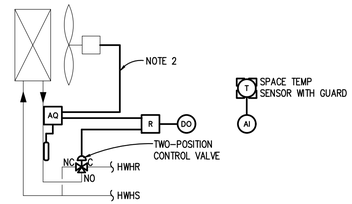
HWH UH-B-1 & UH-B-2 CONTROL

SEQUENCE OF OPERATION:

1. DDC ROOM TEMPERATURE SENSOR SHALL OPEN AND CLOSE HEATING VALVE TO MAINTAIN TEMPERATURE SETPOINT. FAN SHALL ACTIVATE UPON PROOF OF HWHR FLOW BY AQUASTAT.
2. AQUASTAT SHALL PROVIDE 3°F (MINIMUM) DEADBAND CONTROL.
3. DDC SHALL PROVIDE 2°F DEADBAND CONTROL.
4. CONTROL SETPOINT SHALL BE ADJUSTABLE FROM COMMAND CENTER.
5. TEMPERATURE SHALL BE DISPLAYED AT COMMAND CENTER.



HWH UH-B-1 & UH-B-2 WIRING



VESTIBULE HWH CUH CONTROL

NOTES:

1. REFER TO FLOOR PLANS FOR QUANTITY AND LOCATION OF UNITS.
2. AQUASTAT SHALL BE WIRED IN SERIES WITH FAN CONTROL WIRING CIRCUIT.

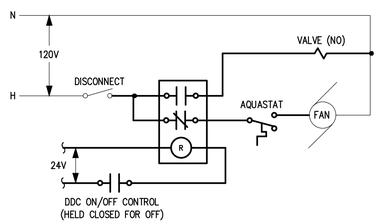
SEQUENCE OF OPERATION:

NOTE: ALL SETPOINTS, RESET SCHEDULE SETPOINTS, DEADBANDS, AND TIME INTERVALS DESCRIBED IN SEQUENCE SHALL BE ADJUSTABLE BY BAS OPERATORS. ALL MOTOR CONTROL SWITCHES SHALL BE IN "AUTO" POSITION.

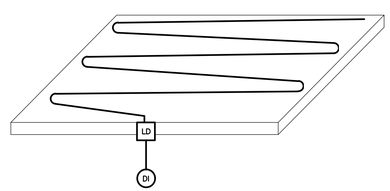
1. ASHRAE 90.1-2013 FOR VESTIBULES ONLY:

1.1. DDC SHALL ENABLE/DISABLE CUH FAN CIRCUIT AND OPEN/CLOSE HEATING VALVE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE SETPOINT OF 60°F. FAN SHALL ACTIVATE UPON PROOF OF HWHR FLOW BY AQUASTAT. AQUASTAT SHALL PROVIDE 4°F DEADBAND FOR CONTROL. DDC SHALL PROVIDE 2°F DEADBAND FOR CONTROL.

1.2. WHEN OUTSIDE AIR TEMPERATURE INCREASES ABOVE 45°F, DDC SHALL DISABLE CONTROL OF THE CUH.



VESTIBULE HWH CUH CONTROL WIRING



DRIP PAN WATER DETECTION MONITORING

TYPICAL – NOT TO SCALE

NOTES:

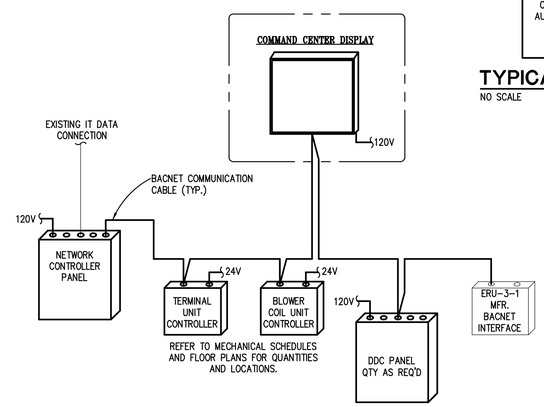
1. REFER TO FLOOR PLANS FOR QUANTITY AND LOCATION OF DRIP PAN(S).
2. TC CONTRACTOR SHALL COORDINATE WIRING REQUIREMENTS WITH THE WATER LEAK DETECTION SENSOR MANUFACTURER.
3. SENSOR MANUFACTURER SHALL BE BUILDING AUTOMATION PRODUCTS, INC. (BAPI) MODEL BA/LDT WITH ROPE SENSOR. COORDINATE ROPE LENGTH AND INSTALLATION BASED ON PAN DIMENSIONS WITH THE MANUFACTURER.

SEQUENCE OF OPERATION:

1. DDC SHALL MONITOR THE DRIP PAN LEAK DETECTION SENSOR. UPON SENSING WATER IN THE PAN, DDC SHALL PROVIDE AN ALARM TO THE BAS.

TC GENERAL NOTES

TC GENERAL NOTES ON DRAWING M801 APPLY TO THIS DRAWING.

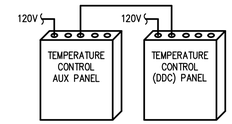


DDC SYSTEM ARCHITECTURE

NO SCALE

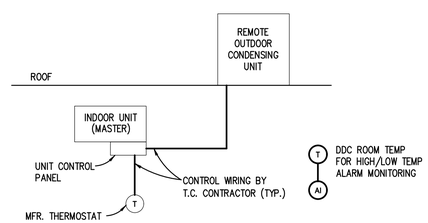
NOTES:

1. EXISTING BUILDING AUTOMATION SYSTEM IS JOHNSON CONTROLS INC.
2. LOCATE HUMAN MACHINE INTERFACE (HMI) IN COMMAND CENTER. COORDINATE LOCATION WITH THE ARCHITECT.
3. NEW BACnet DDC TERMINAL UNIT AND FAN COIL CONTROLLERS SHALL BE CONNECTED TO BACnet DDC COMMUNICATION NETWORK.
4. REFER TO TEMPERATURE CONTROL SCHEMATICS FOR THE REQUIRED POINTS ASSOCIATED FOR EACH SYSTEM.
5. TC CONTRACTOR SHALL DETERMINE DDC PANEL QUANTITY BASED ON POINT DENSITIES AND AVAILABLE MOUNTING SPACE. UNLESS SPECIFICALLY NOTED IN DESIGN DRAWINGS, TC CONTRACTOR SHALL LOCATE DDC PANELS AND COORDINATE WITH OTHER TRADES.
6. TC CONTRACTOR SHALL PROVIDE REQUIRED POWER SUPPLIES FROM SPARE CIRCUITS WHERE IDENTIFIED ON ELECTRICAL PANEL SCHEDULES. COORDINATE WITH ELEC CONTRACTOR. REFER TO ELECTRICAL DWGS FOR PANEL LOCATIONS.
7. TC CONTRACTOR SHALL PROVIDE 24V TRANSFORMERS FOR TERMINAL UNIT DDC CONTROLLERS AND SHALL BE LOCATED IN MECH OR ELEC ROOMS – COORDINATE LOCATIONS WITH THE ARCHITECT. MAXIMUM TRANSFORMER SIZE SHALL BE 100 VA. PROVIDE ENCLOSURE(S) FOR TRANSFORMERS.
8. TC CONTRACTOR SHALL PROVIDE NEW BACNET COMMUNICATION CABLE FOR ALL NEW CONTROLLERS IN THIS PROJECT. DETERMINE.



TYPICAL DDC PANEL LAYOUT

NO SCALE



PACKAGED ACU FIELD WIRING & CONTROL

TYPICAL – REFER TO MECH FLOOR PLANS FOR QTY & LOCATIONS

NOTES:

1. TC CONTRACTOR SHALL PROVIDE FIELD WIRING BETWEEN INDOOR UNIT CONTROLS AND THE REMOTE CONDENSER.
2. TC CONTRACTOR SHALL INSTALL THERMOSTAT PROVIDED BY ACU SUPPLIER/MFR AND PROVIDE REQUIRED FIELD WIRING.
3. TC CONTRACTOR SHALL COORDINATE WITH MANUFACTURER FOR EXACT TERMINATIONS AND WIRING REQUIREMENTS.

SEQUENCE OF OPERATION:

1. MANUFACTURER'S THERMOSTAT SHALL CYCLE PACKAGED ACU ON/OFF TO MAINTAIN ROOM TEMPERATURE SETPOINT.
2. DDC SHALL MONITOR ROOM TEMP AND ACTIVATE ALARM IF HIGH OR LOW LIMIT SETPOINTS ARE REACHED.

KEY PLAN

GRAPHIC SCALE

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

STAMP OR SEAL

STATE OF MICHIGAN
DAVID ANTHONY CONRAD
ENGINEER
No. 6201055589
LICENSED PROFESSIONAL ENGINEER

OWNER IDENTIFICATION

GSA
General Services Administration
Public Buildings Service
Great Lakes
Design and Construction,
Project Delivery Division
John C. Kluczynski Federal Building
230 South Dearborn St.
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	RLT
CHECKED BY	DC
FLOOR NO.	N/A
DISCIPLINE	MECHANICAL
PLAN TYPE	TEMPERATURE CONTROLS
SHEET NUMBER AND FILENAME	M804

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ELECTRICAL SYMBOL LIST

(NOTE: SOME SYMBOLS AND ABBREVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT.)

SYMBOL	DESCRIPTION
FX (NL)	FIXTURE TYPE (NL INDICATES NIGHT LIGHT)
	LIGHTING FIXTURE
	DIRECT/INDIRECT LIGHTING FIXTURE
	EMERGENCY LIGHTING FIXTURE
	LIGHTING FIXTURE
	WALL MOUNTED LIGHTING FIXTURE
	LIGHTING FIXTURE
	RECESSED OR SURFACE MOUNTED DIRECTIONAL LIGHTING FIXTURE
	PENDANT LIGHTING FIXTURE
	WALL SCONCE
	LIGHTING TRACK
	TRACK LIGHTING FIXTURE
	POLE MOUNTED LIGHTING FIXTURE
	POLE MOUNTED LIGHTING FIXTURE - POST TOP
	BOLLARD LIGHTING FIXTURE
	EMERGENCY LIGHTING UNIT
	EXIT LIGHTING FIXTURE WITH DIRECTIONAL ARROWS (SHADED AREA INDICATES FACE)
	EXIT LIGHTING FIXTURE WITH DIRECTIONAL ARROWS (SHADED AREA INDICATES FACE)
	EXIT LIGHTING FIXTURE - WALL MOUNTED
	EXIT/EMERGENCY LIGHTING COMBO
ALCR	AUTOMATIC LOAD CONTROL RELAY
BCELTS	BRANCH CIRCUIT EMERGENCY LIGHTING TRANSFER SWITCH
LC	LIGHTING CONTROL DEVICE - REFER TO LIGHTING CONTROL SCHEDULE
XX	ROOM CONTROL DESIGNATION - REFER TO LIGHTING CONTROL SCHEDULE
S	SINGLE POLE TOGGLE SWITCH
S2	TWO POLE TOGGLE SWITCH
S3	3 WAY TOGGLE SWITCH
S4	4 WAY TOGGLE SWITCH
K	KEY OPERATED SWITCH
K3	3 WAY KEY OPERATED SWITCH
K4	4 WAY KEY OPERATED SWITCH
D	DIMMER SWITCH
DO	DIMMER OCCUPANCY SENSOR SWITCH
DL	LOW VOLTAGE DIMMER SWITCH
D3	3 WAY DIMMER SWITCH
SP	PILOT SWITCH
TWC	TWO-WAY COMMUNICATION SYSTEM CALL STATION
TWCD	TWO-WAY COMMUNICATION SYSTEM AUTO DIALER
TWCA	TWO-WAY COMMUNICATION SYSTEM ANNUNCIATOR & COMMUNICATION PANEL
TWCP	TWO-WAY COMMUNICATION SYSTEM POWER SUPPLY WITH BATTERY BACK-UP
TWCDP	TWO-WAY COMMUNICATION SYSTEM AUTO DIALER POWER SUPPLY WITH BATTERY BACK-UP
RGP	REMOTE GENERATOR ANNUNCIATOR PANEL
ATS	AUTOMATIC TRANSFER SWITCH
UPS	UNINTERRUPTIBLE POWER SUPPLY
CSX	LOW VOLTAGE CONTROL STATION "X" INDICATES TYPE

SYMBOL	DESCRIPTION
"X"	SINGLE / DUPLEX RECEPTACLE OUTLET "X" INDICATES TYPE
	SINGLE / DUPLEX RECEPTACLE OUTLET CONTROLLED BY AUTOMATIC CONTROL DEVICE / SYSTEM
	QUAD RECEPTACLE OUTLET
	ABOVE COUNTER DUPLEX RECEPTACLE (SIMILAR FOR TAMPER RESISTANT, QUADS, EMERGENCY AND GFCI RECEPTACLES)
	DUPLEX RECEPTACLE-GROUND FAULT CIRCUIT INTERRUPTER
	DEAD FRONT-GROUND FAULT CIRCUIT INTERRUPTER
	DUPLEX EMERGENCY RECEPTACLE OUTLET
	TAMPER RESISTANT RECEPTACLE OUTLET
	QUAD TAMPER RESISTANT RECEPTACLE OUTLET
	ABOVE COUNTER TAMPER RESISTANT RECEPTACLE OUTLET
	DUPLEX UPS RECEPTACLE
	DUPLEX RECEPTACLE WITH 2 USB PORTS OUTLET
	USB 4 PORT CHARGING STATION
	CEILING MOUNTED DUPLEX / QUAD RECEPTACLE
	POWER POLE
	WALL / CEILING MOUNTED SPECIAL RECEPTACLE - REFER TO ELECTRICAL STANDARD SCHEDULES
	MULTI-OUTLET RACEWAY
"X"	MULTI-SERVICE DROP SEE ELECTRICAL DETAILS AND DIAGRAMS SHEET "X" INDICATES TYPE
PTX	POKE-THROUGH ASSEMBLY "X" INDICATES TYPE
FBX	FLOOR SERVICE FITTING "X" INDICATES TYPE
AFX	ACCESS FLOOR SERVICE FITTING "X" INDICATES TYPE
RX	CORD REEL "X" INDICATES TYPE
S3	DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES
S3S3	3-WAY DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES
S4S4	4-WAY DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES
ST	DIGITAL TIME SWITCH
SI	ILLUMINATED TOGGLE SWITCH FOR CONTROL OF LIGHTING ON CRITICAL POWER-ILLUMINATED WHEN SWITCH IS IN "OFF" POSITION
SL	LOW VOLTAGE SWITCH
SO	OCCUPANCY SENSOR
SO2	OCCUPANCY SENSOR - REFER TO ELECTRICAL STANDARD SCHEDULE
OS X	OCCUPANCY SENSOR - REFER TO ELECTRICAL STANDARD SCHEDULES - "X" INDICATES TYPE
CP	CONTROL PANEL
	MOTOR
VFC	VARIABLE FREQUENCY CONTROLLER
	MANUAL CONTROLLER
	MAGNETIC CONTROLLER
	COMBINATION MAGNETIC CONTROLLER

SYMBOL	DESCRIPTION
	NON-FUSIBLE DISCONNECT SWITCH
	FUSIBLE DISCONNECT SWITCH
CB	ENCLOSED CIRCUIT BREAKER
	PUSH BUTTON STATION
J	JUNCTION BOX
	HARD WIRE POWER CONNECTION
	GROUND ROD
	GROUND CONNECTION
HH	HANDHOLE
X	CONDUIT SLEEVE WITH BUSHINGS LENGTH AS REQUIRED "X" INDICATES CONDUIT SIZE
	CONDUIT UP
	CONDUIT DOWN
	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET
	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET MOUNTED 8" ABOVE COUNTERTOP
	EMPTY BOX FOR FUTURE CEILING MOUNTED TELECOMMUNICATION OUTLET
X	TELECOMMUNICATION OUTLET "X" INDICATES TYPE
X	TELECOMMUNICATION OUTLET MOUNTED 8" ABOVE COUNTERTOP "X" INDICATES TYPE
X	TELECOMMUNICATION CEILING MOUNTED OUTLET "X" INDICATES TYPE
	TELECOMMUNICATION BACKBOARD
TGB	TELECOMMUNICATION GROUNDING BUS BAR
TMGB	TELECOMMUNICATION MAIN GROUNDING BUS BAR
IC	INTERCOM OUTLET
S	SPEAKER
S	SPEAKER - WALL MOUNTED
MIC	MICROPHONE
VC	VOLUME CONTROL
B	SIGNALING BELL
	SINGLE FACE CLOCK - CEILING MOUNTED
	SINGLE FACE CLOCK - WALL MOUNTED
	DOUBLE FACE CLOCK - CEILING MOUNTED
S	DOUBLE FACE COMBINATION CLOCK/SPEAKER CEILING MOUNTED
	DOUBLE FACE CLOCK - WALL MOUNTED
S	DOUBLE FACE COMBINATION CLOCK/SPEAKER WALL MOUNTED
T/C	TIME CLOCK
C	CONTACTOR
P	PHOTOCELL
TT	TWIST TIMER

REFER TO ELECTRICAL STANDARD SCHEDULES

SYMBOL	DESCRIPTION
	NEW CCV CAMERA
MD	MOTION DETECTOR
K	SECURITY KEY SWITCH
HR	NEW TS HIRSCH SCRAMBLE PAD
KP	KEY PAD
CR	CARD READER
D	NEW INTERCOM WITH DURESS BUTTON
	NEW INTERCOM
AV	NEW AUDIO/VIDEO INTERCOM
D	NEW DURESS BUTTON
H	NEW PIN ONLY HIRSCH SCRAMBLE PAD
B M	NEW MAGNETIC DOOR CONTACT
D C	NEW DOOR CONTACT
REX	REQUEST TO EXIT STATION
PP	AUTOMATIC DOOR PUSH PAD OPERATOR
DO	DOOR OPERATOR
DA	DOOR ACTUATOR
AC	ACCESS CONTROL STATION
ACCP	ACCESS CONTROL CONTROL PANEL
ACCP	ACCESS CONTROL POWER SUPPLY
	CIRCUIT BREAKER
	DRAWOUT CIRCUIT BREAKER MANUALLY/ OPERATED
	DRAWOUT CIRCUIT BREAKER ELECTRICALLY/ OPERATED
	SWITCH
	AUTOMATIC OR MANUAL TRANSFER SWITCH
	FUSE
	TRANSFORMER
	CURRENT TRANSFORMER
	POTENTIAL TRANSFORMER
	LIGHTNING ARRESTOR
X	PANELBOARD "X" INDICATES PANELBOARD NAME
	GROUND
	STRESS CONE TERMINATION
K	SECURITY KEY INTERLOCK
G	ENGINE GENERATOR
M	UTILITY METER
EMU	ELECTRONIC METERING UNIT
A	AMMETER
V	VOLTMETER
AS	AMMETER SWITCH
VS	VOLTMETER SWITCH
SPD	SURGE PROTECTIVE DEVICE
CR	CONTROL RELAY
TDR	TIME DELAY RELAY

SYMBOL	DESCRIPTION
	THERMAL OVERLOAD RELAY
	NORMALLY OPEN CONTACTS
	NORMALLY CLOSED CONTACTS
	N.O. PUSH BUTTON SINGLE CIRCUIT
	N.C. PUSH BUTTON SINGLE CIRCUIT
X-X	CABLE VAULT "X-X" INDICATES TYPE
	DISTRIBUTION PANEL
GB	GROUND BUS
PB	PLUG IN BUSWAY
FB	FEEDER BUSWAY
F	MANUAL FIRE ALARM BOX
SD	SMOKE DETECTOR
DD	DUCT SMOKE DETECTOR
CO	CARBON MONOXIDE DETECTOR
RT	REMOTE TEST STATION (FOR DUCT DETECTOR)
TD	THERMAL DETECTOR
BD	PROJECTED BEAM DETECTOR
F	FIRE ALARM BELL
F	FIRE ALARM AUDIBLE NOTIFICATION APPLIANCE
XX	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "XX" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
XX	FIRE ALARM COMBINATION VISUAL/ AUDIBLE "XX" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
F XX	FIRE ALARM COMBINATION VISUAL/ AUDIBLE NOTIFICATION APPLIANCE - CEILING MOUNTED "XX" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
XX	FIRE ALARM VISUAL NOTIFICATION APPLIANCE CEILING MOUNTED "XX" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
F	FIRE ALARM AUDIBLE NOTIFICATION APPLIANCE - CEILING MOUNTED
F	FIREFIGHTERS PHONE JACK
FACP	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM ANNUNCIATOR PANEL
NAC	NOTIFICATION APPLIANCE CIRCUIT EXTENDER PANEL
IM	ADDRESSABLE MONITORING MODULE
CM	ADDRESSABLE CONTROL MODULE
TS	TAMPER SWITCH
FS	FLOW SWITCH
DR	MAGNETIC DOOR RELEASE
	BRANCH CIRCUIT PANEL BOARD
	LOAD CENTER
	MOTOR CONTROL CENTER
T	TRANSFORMER

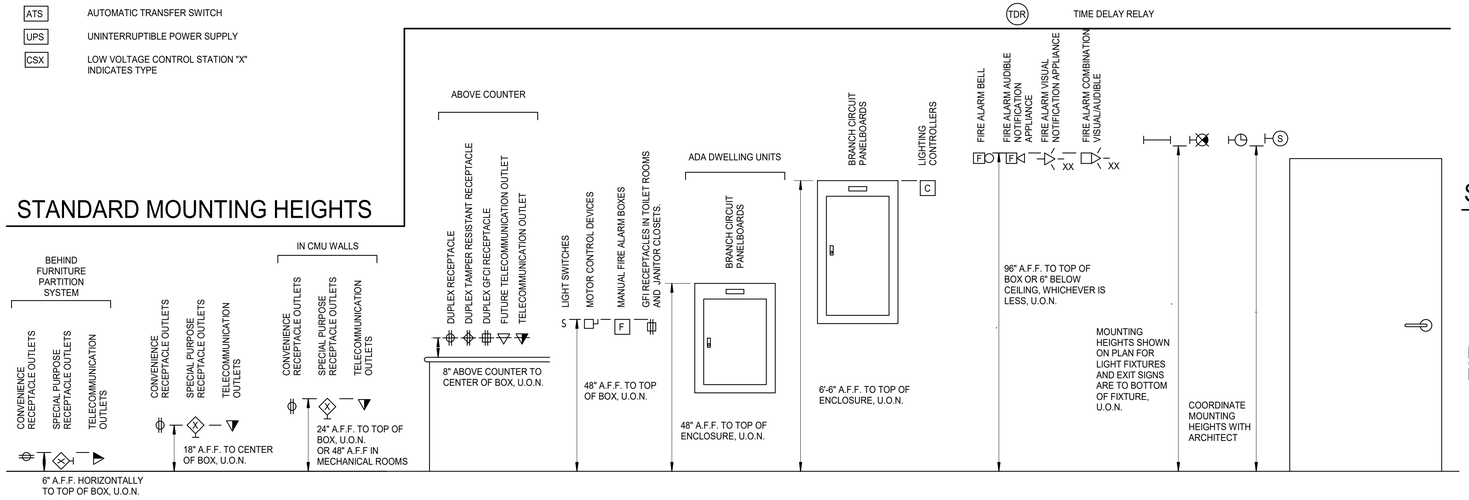
ELECTRICAL DRAWING INDEX

SHEET NO.	SHEET TITLE
EL001	ELECTRICAL STANDARDS AND DRAWING INDEX
E002	ELECTRICAL STANDARD SCHEDULES
ED100A	BASEMENT FLOOR - ELECTRICAL DEMOLITION PLAN
ED100B	BASEMENT FLOOR - ELECTRICAL DEMOLITION PLAN
ED102	FIRST FLOOR - NORTH LAFAYETTE ELECTRICAL DEMOLITION PLAN
ED103	FIRST FLOOR - SOUTH FORT STREET ELECTRICAL DEMOLITION PLAN
ED105	SECOND FLOOR - OPTION 1 ELECTRICAL DEMOLITION PLAN
ED106	ELEVATOR ELECTRICAL DEMOLITION PLANS
E100A	BASEMENT FLOOR - ELECTRICAL PLAN
E100B	BASEMENT FLOOR - ELECTRICAL PLAN
E101	FIRST FLOOR - NORTH LAFAYETTE ELECTRICAL PLAN
E102	FIRST FLOOR - SOUTH FORT STREET ELECTRICAL PLAN
E103	THIRD FLOOR - ELECTRICAL PLAN
E104	FIRST FLOOR - EXTERIOR RAMP ELECTRICAL PLAN
E105	SECOND FLOOR - OPTION 1 ELECTRICAL PLAN
E106	ELEVATOR ELECTRICAL PLANS
E501	ONE LINE DIAGRAM
E502	PANEL SCHEDULES
E503	PANEL SCHEDULES
E701	ELECTRICAL DETAILS
E702	ELECTRICAL DETAILS
LD100	BASEMENT FLOOR - VEHICLE SALLYPORT LIGHTING DEMOLITION PLAN
LD101	FIRST FLOOR - NORTH LAFAYETTE LIGHTING DEMOLITION PLAN
LD102	FIRST FLOOR - SOUTH FORT STREET LIGHTING DEMOLITION PLAN
LD105	SECOND FLOOR - OPTION 1 LIGHTING DEMOLITION PLAN
L100	BASEMENT FLOOR - VEHICLE SALLYPORT LIGHTING PLAN
L101	FIRST FLOOR - NORTH LAFAYETTE LIGHTING PLAN
L102	FIRST FLOOR - SOUTH FORT STREET LIGHTING PLAN
L104	FIRST FLOOR - EXTERIOR RAMP LIGHTING PLAN
L105	SECOND FLOOR - OPTION 1 LIGHTING PLAN

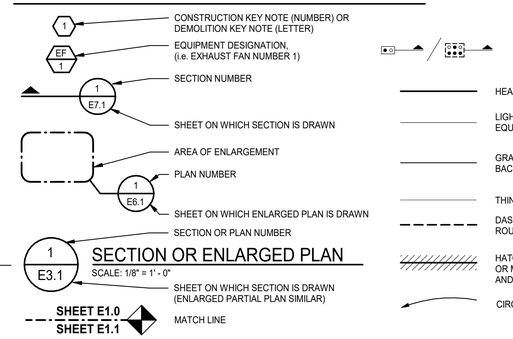
ELECTRICAL ABBREVIATION LIST

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
A	AMPERES	MAX	MAXIMUM
AER	ARC ENERGY REDUCTION	MCA	MINIMUM CIRCUIT AMPACITY
AF	AMPERES FRAME (BREAKER RATING)	MCB	MAIN CIRCUIT BREAKER
AFCI	ARC FAULT CIRCUIT INTERRUPTER	MCC	MOTOR CONTROL CENTER
A.F.F.	ABOVE FINISH FLOOR	MDP	MAIN DISTRIBUTION PANEL
AIC	AMPS INTERRUPTING CAPACITY	MECH	MECHANICAL
AL	AUDIENCE LEFT	MIN	MINIMUM
ALCR	AUTOMATIC LOAD CONTROL RELAY	MISC.	MISCELLANEOUS
AR	AUDIENCE RIGHT	MLO	MAIN LUGS ONLY
AT	AMPERES TRIP (BREAKER SETTING)	MOP	MAXIMUM OVERCURRENT PROTECTION
ATS	AUTOMATIC TRANSFER SWITCH	MTD	MOUNTED
AUX	AUXILIARY	MTG	MOUNTING
		MTR	MOTOR
BCELTS	BRANCH CIRCUIT EMERGENCY LIGHTING TRANSFER SWITCH	N	NEUTRAL
BKR	BREAKER	NC	NORMALLY CLOSED
BPS	BOLTED PRESSURE SWITCH	NEC	NATIONAL ELECTRICAL CODE
		NF	NON-FUSIBLE
C	CONDUIT	NIC	NOT IN CONTRACT
CB	CIRCUIT BREAKER	NL	NIGHT LIGHT
CKT	CIRCUIT	NO	NORMALLY OPEN
CT	CURRENT TRANSFORMER	NTS	NOT TO SCALE
DEMO	DEMOLITION	OC	ON CENTER
DIM	DIMENSION	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
DISC	DISCONNECT		
DP	DISTRIBUTION PANEL	OFOI	OWNER FURNISHED, OWNER INSTALLED
DS	DOWNSTAGE		
DWG	DRAWING		
		P	POLE
EBU	EMERGENCY BATTERY UNIT	PB	PUSHBUTTON STATION
EC	ELECTRICAL CONTRACTOR	PH	PHASE
ELEC	ELECTRICAL	PT	POTENTIAL TRANSFORMER
EM/ EMERG	EMERGENCY	PDP	POWER DISTRIBUTION PANEL
EMT	ELECTRICAL METALLIC TUBING		
EO	ELECTRICALLY OPERATED	RECEPT.	RECEPTACLE
EPO	EMERGENCY POWER OFF	RDP	RECEPTACLE DISTRIBUTION PANEL
EWC	ELECTRIC WATER COOLER	RP	RECEPTACLE PANEL
EXIST	EXISTING	RSC	RIGID STEEL CONDUIT
FA	FIRE ALARM	SCCA	SHORT CIRCUIT CURRENT RATING
FLA	FULL LOAD AMPS	SCHED	SCHEDULE
FLR	FLOOR	SPD	SURGE PROTECTION DEVICE
FOH	FRONT OF HOUSE	SW	SWITCH
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR	SWBD	SWITCHBOARD
FU	FUSE	SWGR	SWITCHGEAR
G/GRD/EG	GROUND	TB	TERMINAL BOX
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TELECOM	TELECOMMUNICATIONS
GFP	GROUND FAULT PROTECTION	TR	TAMPER RESISTANT
		TTP	TELEPHONE TERMINAL BACKBOARD
HOA	HAND-OFF-AUTO	TYP	TYPICAL
HP	HORSEPOWER		
HV	HIGH VOLTAGE	U.O.N.	UNLESS OTHERWISE NOTED
HZ	HERTZ	US	UPSTAGE
IG	ISOLATED GROUND	V	VOLTS
JB	JUNCTION BOX	W	WIRE OR WATTS
		WG	WIRE GUARD
KA	THOUSAND AMP	WP	WEATHERPROOF
KV	KILOVOLT	WR	WEATHER RESISTANT
KVA	KILOVOLT - AMPERES	WTMD	WALK-THROUGH METAL DETECTOR
KW	KILOWATT		
KWH	KILOWATT - HOURS	XFMR	TRANSFORMER
		XP	EXPLOSION PROOF
LA	LIGHTING ARRESTOR		
LP	LIGHTING PANEL	(E)	EXISTING
LDP	LIGHTING DISTRIBUTION PANEL	(R)	RELOCATED

STANDARD MOUNTING HEIGHTS



STANDARD METHODS OF NOTATION



KEY PLAN

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

STAMP OR SEAL

STATE OF MICHIGAN
ERIC MICHAEL GRAETTINGER
ENGINEER
No. 6201052164
LICENSED PROFESSIONAL ENGINEER

OWNER IDENTIFICATION

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SMB
CHECKED BY	EMG
FLOOR NO.	N/A
DISCIPLINE	ELECTRICAL
PLAN TYPE	INDEX
SHEET NUMBER AND FILENAME	EL001

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FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE - GENERAL PURPOSE

OVERCURRENT DEVICE RATING (AMPERES)	COPPER CONDUCTORS						KEYED NOTES
	WIRE SIZE (AWG OR KCMIL)		CONDUIT SIZE				
	PHASE & NEUTRAL	GROUND	SINGLE PHASE 2 WIRE+G (1PH, 1N, 1G, 2PH, 1G)	SINGLE PHASE 3 WIRE+G (2PH, 1N, 1G)	THREE PHASE 3 WIRE+G (3PH, 1G)	THREE PHASE & NEUTRAL 4 WIRE+G (3PH, 1N, 1G)	
15-20	12	12	3/4"	3/4"	3/4"	3/4"	
25-30	10	10	3/4"	3/4"	3/4"	3/4"	
35-40	8	10	3/4"	3/4"	3/4"	3/4"	
45-50	8 (6)	10	3/4"	3/4"	3/4"	3/4"	1
60	6 (4)	10	3/4" (1")	3/4" (1")	3/4" (1")	1" (1 1/4")	1
70	4	8	1"	1 1/4"	1 1/4"	1 1/4"	
80	4 (3)	8	1"	1 1/4"	1 1/4"	1 1/4"	1
90-100	3 (2)	8	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1
110	2 (1)	6	–	1 1/4"	1 1/4"	1 1/4" (1 1/2")	1
125	1 (1/0)	6	–	1 1/4" (1 1/2")	1 1/4" (1 1/2")	1 1/2"	1
150	1/0	6	–	1 1/2"	1 1/2"	1 1/2"	
175	2/0	6	–	2"	2"	2"	
200	3/0	6	–	2"	2"	2 1/2"	
225	4/0	4	–	2"	2"	2 1/2"	
250	250	4	–	2 1/2"	2 1/2"	2 1/2"	
300	350	4	–	2 1/2"	2 1/2"	3"	
350	500	3	–	3"	3"	3"	
400	500	3	–	3"	3"	3"	

GENERAL NOTES:
1. CONTRACTOR TO SIZE FEEDERS AND BRANCH CIRCUITS BASED ON THIS SCHEDULE AND OVER CURRENT DEVICE SIZE, UNLESS NOTED OTHERWISE.
2. CONTRACTOR MAY COMBINE 20A CIRCUITS AS NOTED IN SPECIFICATION.
3. CONDUCTORS ARE BASED ON THHN/THWN UP TO AND INCLUDING #4/0. LARGER THAN #4/0 ARE BASED ON TYPE XHHW.
4. CONDUIT SIZES ARE VALID FOR EMT OR RGS. CONDUIT SIZES SHALL BE ADJUSTED AS REQUIRED FOR OTHER TYPES OF CONDUIT.
5. ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE REQUIRED WIRE SIZES TO ACCOMMODATE MECHANICAL EQUIPMENT LUG SIZES.
6. SIZE OF DISCONNECT SWITCH LOCATED AT EQUIPMENT SHALL BE SIZED BASED UPON OVERCURRENT PROTECTION OF THAT DEVICE.
7. OBTAIN APPROVAL FROM ENGINEER PRIOR TO INSTALLING DIFFERENT SIZE/QUANTITY OF CONDUCTORS TO OBTAIN AN EQUIVALENT AMPACITY.
8. SPLICE FROM ALUMINUM TO COPPER PRIOR TO ENTERING EQUIPMENT LISTED FOR USE WITH COPPER CONDUCTORS ONLY OR USE COPPER CONDUCTORS FOR THE ENTIRE LENGTH OF FEEDER.

KEYED NOTES:
1. CONDUCTORS ARE BASED ON 90°C, 600V. INSULATED WIRE APPLIED AT 75°C FOR TERMINATION RATED 60/75°C OR 75°C. FOR TERMINATION RATED AT 60°C, USE CONDUCTORS AND CONDUIT SIZES INDICATED IN PARENTHESES.

MOTOR CIRCUIT SIZING SCHEDULE (480V, 3 PHASE)

MOTOR HP	SWITCH/ FUSE	CIRCUIT BREAKER	STARTER SIZE/TYPE	MOTOR DISCONNECT (NOTE 3)
1/2	30/3A	15A	1	30A
3/4	30/3A	15A	1	30A
1	30/6A	15A	1	30A
1 1/2	30/6A	15A	1	30A
2	30/6A	15A	1	30A
3	30/10A	15A	1	30A
5	30/15A	15A	1	30A
7 1/2	30/20A	20A	1	30A
10	30/20A	25A	1	30A
15	30/30A	40A	2	30A
20	60/40A	60A	2	60A
25	60/50A	70A	2	60A
30	60/60A.	80A	3	60A
40	100/80A.	90A	3	100A
50	100/100A.	100A	3	100A
60	200/125A.	125A	4	200A
75	200/150A.	150A	4	200A
100	200/200A.	200A	4	200A
125	200/200A.	225A	5	200A
150	400/250A.	250A	5	400A
200	400/350A.	350A	5	400A

GENERAL NOTES:
1. BASED ON MOTOR FULL LOAD AMPERES AS PROVIDED BY THE NEC
2. BASED ON MOTOR RUNNING OVERLOAD PROTECTIONS PROVIDED BY THERMAL OVERLOAD RELAYS.
3. WHERE THE STARTER IS LOCATED REMOTE FROM THE MOTOR, PROVIDE DISCONNECT LOCATED AT THE MOTOR, SIZE AS INDICATED.

BRANCH CIRCUIT VOLTAGE DROP WIRING SCHEDULE FOR SINGLE PHASE CIRCUITS

BRANCH CKT RATING (A)	WIRE SIZE (AWG)	MAXIMUM BRANCH CIRCUIT LENGTH (IN FEET)				
		120V	208V	240V	277V	480V
20A	12	83	143	165	191	331
	10	128	222	256	295	511
	8	201	348	402	464	804
	6	313	542	625	721	1250
30A	10	85	148	170	197	341
	8	134	232	268	309	536
	6	208	361	417	481	833
	4	313	542	625	721	1250

GENERAL NOTES:
1. THE ABOVE TABLE VALUES ARE BASED ON COPPER CONDUCTORS, IN STEEL CONDUIT, WITH A LOAD POWER FACTOR OF 0.85 PER NEC CHAPTER 9, TABLE 9.
2. PROVIDE BRANCH CIRCUIT CONDUCTORS AS INDICATED IN THE TABLE ABOVE FOR ALL LIGHTING AND RECEPTACLE BRANCH CIRCUITS. WHERE BRANCH CIRCUITS SERVE DEDICATED EQUIPMENT, THE CONTRACTOR MAY PERFORM VOLTAGE DROP CALCULATIONS BASED ON ACTUAL EQUIPMENT CONNECTED LOAD AND PROVIDE CONDUCTORS APPROPRIATELY SIZED TO LIMIT VOLTAGE DROP TO A MAXIMUM OF 3%.
3. CONDUCTOR SIZES ARE BASED ON MAXIMUM OF 9 CURRENT CARRYING CONDUCTORS IN A SINGLE CONDUIT.
4. LIMITS FOR CONDUCTOR LENGTHS SHOWN ARE BASED ON A MAXIMUM BRANCH CIRCUIT LOADING OF 64% OF THE BRANCH BREAKER RATING AND A MAXIMUM OF 3 PERCENT VOLTAGE DROP TO COMPLY WITH ASHRAE 90.1 AND THE NEC. FOR CIRCUITS LOADED GREATER THAN 64% OF BRANCH BREAKER RATING, THE CONTRACTOR SHALL PROVIDE CONDUCTORS APPROPRIATELY SIZED TO LIMIT VOLTAGE DROP TO 3%.

TELECOMMUNICATIONS OUTLET SCHEDULE

TAG	DESCRIPTION	REMARKS
1	1 DATA/VOICE	
2	2 DATA/VOICE	
3	3 DATA/VOICE	
4	4 DATA/VOICE	
5	5 DATA/VOICE	
6	6 DATA/VOICE	
TV 1	1 COAX	
TV 2	1 COAX + 1 DATA	
TV 3	1 COAX + 2 DATA	

GENERAL NOTES:
1. REFER TO SPECIFICATIONS FOR TELECOMMUNICATION CABLE TYPE.

▽ EMPTY BOX W/ CONDUIT FOR FUTURE TELECOM OUTLET.

XX▽ TELECOM OUTLET. PROVIDE CABLE QUANTITIES PER SCHEDULE TAG ABOVE.

XX[FBX] TELECOM OUTLET TO BE PROVIDED IN FLOOR SERVICE FITTING. PROVIDE CABLE QUANTITIES PER SCHEDULE TAG ABOVE.

XX[PTX] TELECOM OUTLET TO BE PROVIDED IN POKE-THRU ASSEMBLY. PROVIDE CABLE QUANTITIES PER SCHEDULE TAG ABOVE.

XX TELECOM OUTLET TO BE PROVIDED FOR CAMERAS. PROVIDE CABLE QUANTITIES PER SCHEDULE TAG ABOVE.

POKE-THROUGH ASSEMBLY SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER (SEE NOTE #2)	DEVICE CONFIGURATION	BOTTOM HOUSING	FLANGE/COVER MATERIAL & COLOR	SERVICE PLATE TYPE	MINIMUM DEPTH	MAXIMUM CONDUIT	CORE SIZE MIN/MAX
PT6C	MULTIFUNCTION RECESSED POKE-THROUGH DEVICE WITH 2 DUPLEX OUTLETS AND 2 TELECOM OUTLETS FOR CARPET/TILE	WIREMOLD 6AT	2D / 2T	3/4"C FOR POWER 1 1/4"C FOR DATA	BK	SL / FC	N/A	2"	6 1/16" 6 1/8"

GENERAL NOTES:
1. PROVIDE 1 1/4"C. FROM EACH TELECOM FLOOR BOX (GANG) TO ACCESSIBLE LOCATION IN CEILING.
2. OTHER ACCEPTABLE MANUFACTURERS ARE STEEL CITY, OR HUBBELL-RACO.
3. ALL PRODUCTS IN THIS SCHEDULE SHALL MEET AND EXCEED THE UL SCRUB WATER EXCLUSION REQUIREMENT.
4. COORDINATE ALL TELECOM AND A/V OUTLETS WITH COMMUNICATIONS AND A/V CONTRACTORS.
5. CORE MIN/MAX SIZES LISTED ARE FOR BARE CONCRETE OR TERRAZZO FLOORS.

ABBREVIATIONS:

PF = PARTITION FEED
D = DUPLEX RECEPTACLE
T = 2 TELECOM OPENINGS

BS = BRASS
AL = ALUMINUM
BK = BLACK
GY = GRAY (CONCRETE)
BZ = BRONZE
NK = NICKEL

FR = FLIP LID/RECTANGULAR
SL = SLIDES
FC = FLIP COVER
FF = FURNITURE FEED

RACEWAY / CONDUCTOR / CABLE APPLICATION SCHEDULE

		WIRE		RACEWAY												CABLE/CORD			
		COPPER, TYPE THHN/THWN-2	COPPER, TYPE XHHW-2	ALUMINUM, TYPE XHHW-2 (100A AND ABOVE ONLY)	ELECTRICAL METALLIC TUBING (EMT)	INTERMEDIATE METAL CONDUIT (IMC)	RIGID STEEL CONDUIT (RSC)	PVC COATED RIGID STEEL CONDUIT	PVC COATED INTERMEDIATE METAL CONDUIT	RIGID NON-METALLIC CONDUIT (RNC) TYPE EPC-40	RIGID NON-METALLIC CONDUIT (RNC) TYPE EPC-80	HIGH DENSITY POLYETHYLENE (HDPE) SCHEDULE 40	REINFORCED THERMOSET RESIN CONDUIT (RTRC) TYPE AG	FLEXIBLE METAL CONDUIT (FMC)	LIQUID TIGHT FLEXIBLE METAL CONDUIT (LFMC)	SURFACE RACEWAY	CABLE TRAY	METAL CLAD TYPE CABLE WITH INSULATED GROUND WIRE (TYPE MC)	TRAY CABLE (TYPE TC)	TRAY CABLE FOR EXPOSED RUNS (TYPE TC-ER)	POWER LIMITED CABLE
FEEDERS - EXTERIOR	EXPOSED, SURFACE MOUNTED TO STRUCTURE		X	X		X	X	X					X								
	EXPOSED, WITH FREESTANDING SUPPORT		X	X		X	X	X					X								
	CONCEALED IN RETAINING WALL OR SIMILAR ELEMENT		X	X			X	X		X	X										
	WITHIN 5' OF FOUNDATION WALL		X	X			X	X													
	ROOFTOPS (WHEN APPROVED BY ENGINEER)		X	X		X	X	X													
FEEDERS - INTERIOR	CONCEALED, ACCESSIBLE CEILINGS	X		X	X	X															
	CONCEALED, INACCESSIBLE CEILINGS	X		X	X	X															
	CONCEALED IN GYPSUM BOARD PARTITION WALLS	X		X	X	X															
	CONCEALED IN CMU WALLS	X		X	X	X															
	EXPOSED, BELOW 10' AFF AND SUBJECT TO DAMAGE	X		X		X	X	X													
	EXPOSED, BELOW 10' AFF AND NOT SUBJECT TO DAMAGE	X		X	X	X															
	EXPOSED, ABOVE 10' AFF UNFINISHED SPACES	X		X	X	X															
	EXPOSED, FINISHED SPACES	X		X												X					
	BELOW SLAB ON GRADE	X		X			X	X		X	X										
	DAMP AND WET LOCATIONS	X		X		X	X	X		X											
BRANCH CIRCUITS - EXTERIOR	EXPOSED, SURFACE MOUNTED TO STRUCTURE		X			X	X	X			X										
	EXPOSED, WITH FREESTANDING SUPPORT		X			X	X	X													
	CONCEALED IN RETAINING WALL OR SIMILAR ELEMENT		X				X	X		X											
	BELOW PARKING LOTS AND ROADWAYS		X				X	X		X		X									
	BELOW GREEN SPACE		X							X											
	WITHIN 5' OF FOUNDATION WALL		X				X	X													
	ROOFTOPS (WHEN APPROVED BY ENGINEER)		X			X	X	X													
BRANCH CIRCUITS - INTERIOR	CONCEALED, ACCESSIBLE CEILINGS	X			X	X											X				
	CONCEALED, INACCESSIBLE CEILINGS	X			X	X															
	CONCEALED IN GYPSUM BOARD PARTITION WALLS	X			X	X								X			X				
	CONCEALED IN CMU WALLS	X			X	X															
	EXPOSED, BELOW 10' AFF AND SUBJECT TO DAMAGE	X				X	X	X													
	EXPOSED, BELOW 10' AFF AND NOT SUBJECT TO DAMAGE	X			X	X										X					
	EXPOSED, ABOVE 10' AFF UNFINISHED SPACES	X			X	X															
	EXPOSED, FINISHED SPACES	X														X					
	EMBEDDED IN ELEVATED CONCRETE SLAB	X								X											
	DAMP AND WET LOCATIONS	X				X	X	X		X					X						
SPECIAL APPLICATIONS	CLASS 1 CONTROL CIRCUITS	X			X	X	X											X	X		
	CLASS 2 CONTROL CIRCUITS	X			X	X	X										X		X	X	X
	CLASS 3 CONTROL CIRCUITS	X			X	X	X										X		X	X	X

GENERAL NOTES:
1. TRANSITION FROM PVC/HDPE AND PROVIDE RIGID STEEL OR RTRC SWEEPS WHERE CONDUITS PENETRATE WALLS, CONCRETE SLABS, CONCRETE BASES, AND ASPHALT.
2. REFER TO SPECIFICATIONS FOR RESTRICTIONS ON MC/AC CABLE INSTALLATION.
3. EMT SHALL NOT BE USED ON THE EXTERIOR OF A BUILDING OR IN AREAS SUBJECT TO DAMAGE BELOW 10' AFF.
4. INSTALL SURFACE RACEWAYS ONLY WHERE INDICATED ON DRAWINGS.

KEY PLAN

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
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248.542.7866/www.ghfaa.com

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www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

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ENGINEER
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LICENSED PROFESSIONAL ENGINEER

STAMP OR SEAL

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BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SMB
CHECKED BY	EMG
FLOOR NO.	N/A
DISCIPLINE	ELECTRICAL
PLAN TYPE	SCHEDULES
SHEET NUMBER AND FILENAME	E002

SHEET

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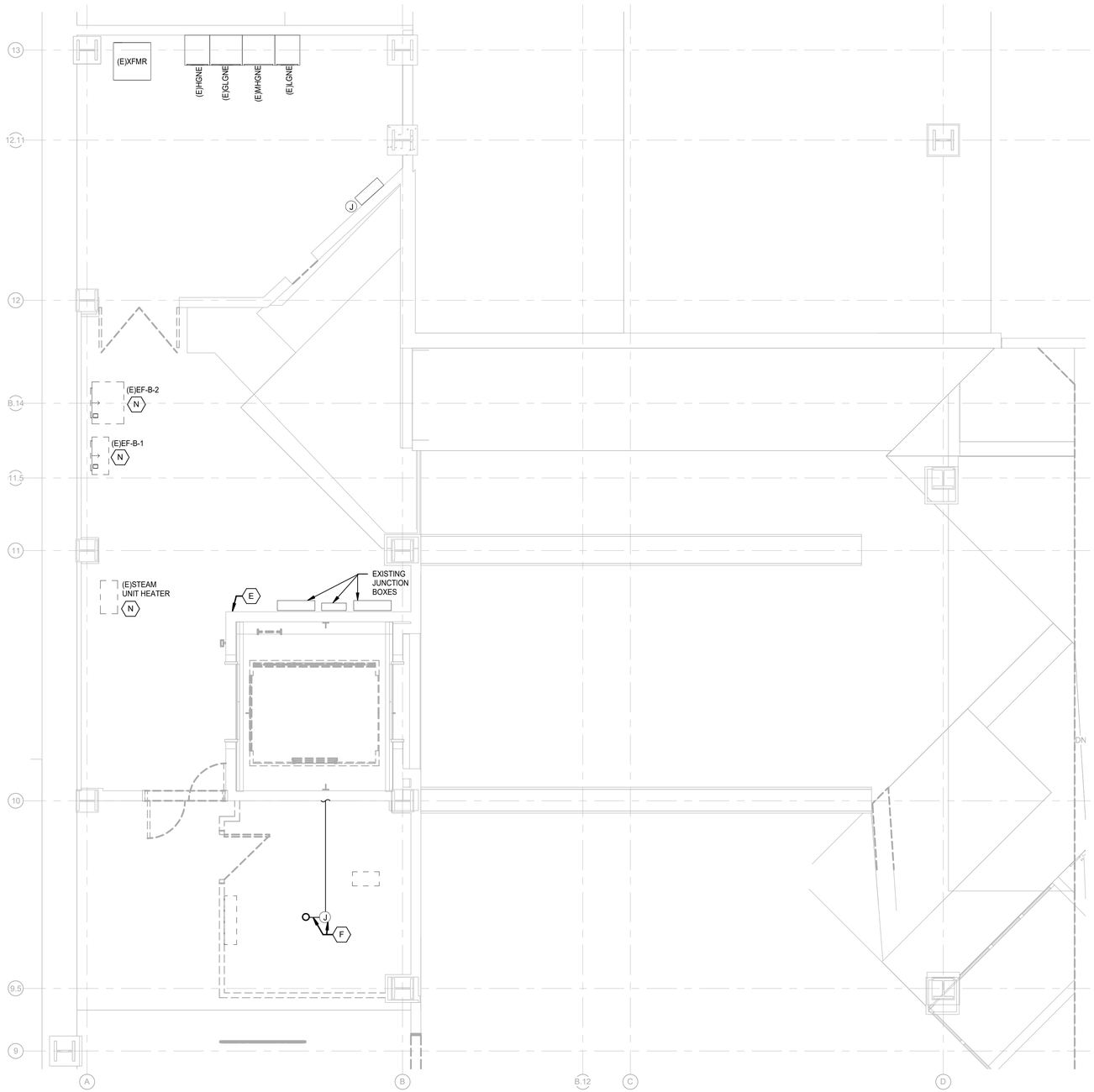
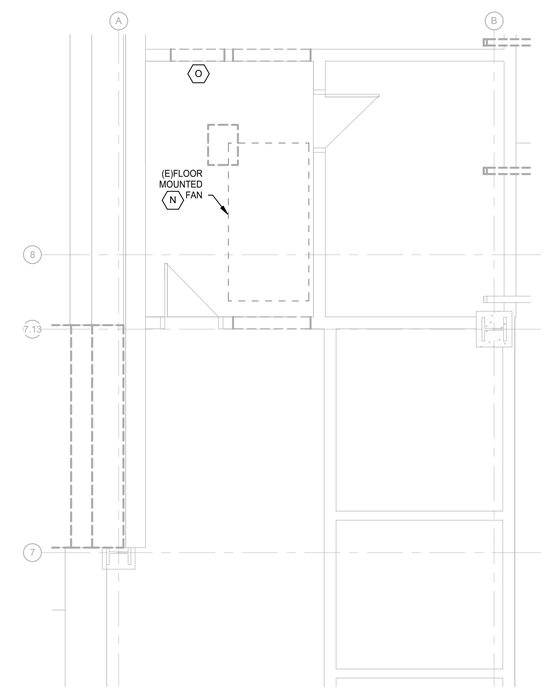
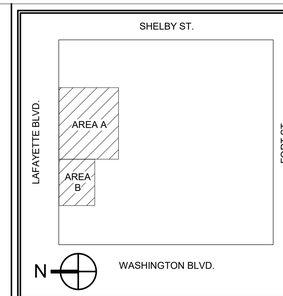


BASEMENT FLOOR - ELECTRICAL DEMOLITION PLAN AREA A
SCALE: 1/4" = 1'-0"



BASEMENT FLOOR - ELECTRICAL DEMOLITION PLAN - AREA B
SCALE: 1/4" = 1'-0"



KEY PLAN

GRAPHIC SCALE 1/4"=1'-0" 0 4' 8'

MARK	DATE	DESCRIPTION

REVISION BLOCK

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BUILDING

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GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SMB
CHECKED BY	EMG
FLOOR NO.	BASEMENT
DISCIPLINE	ELECTRICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	ED100A

SHEET

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BASEMENT FLOOR - ELECTRICAL DEMOLITION PLAN - AREA F

SCALE: 1/4" = 1'-0"

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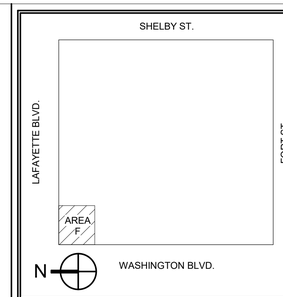

GRAPHIC SCALE

1/4"=1'-0" 0 4" 8"

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

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DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

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BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SMB
CHECKED BY	EMG
FLOOR NO.	BASEMENT
DISCIPLINE	ELECTRICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	ED100B

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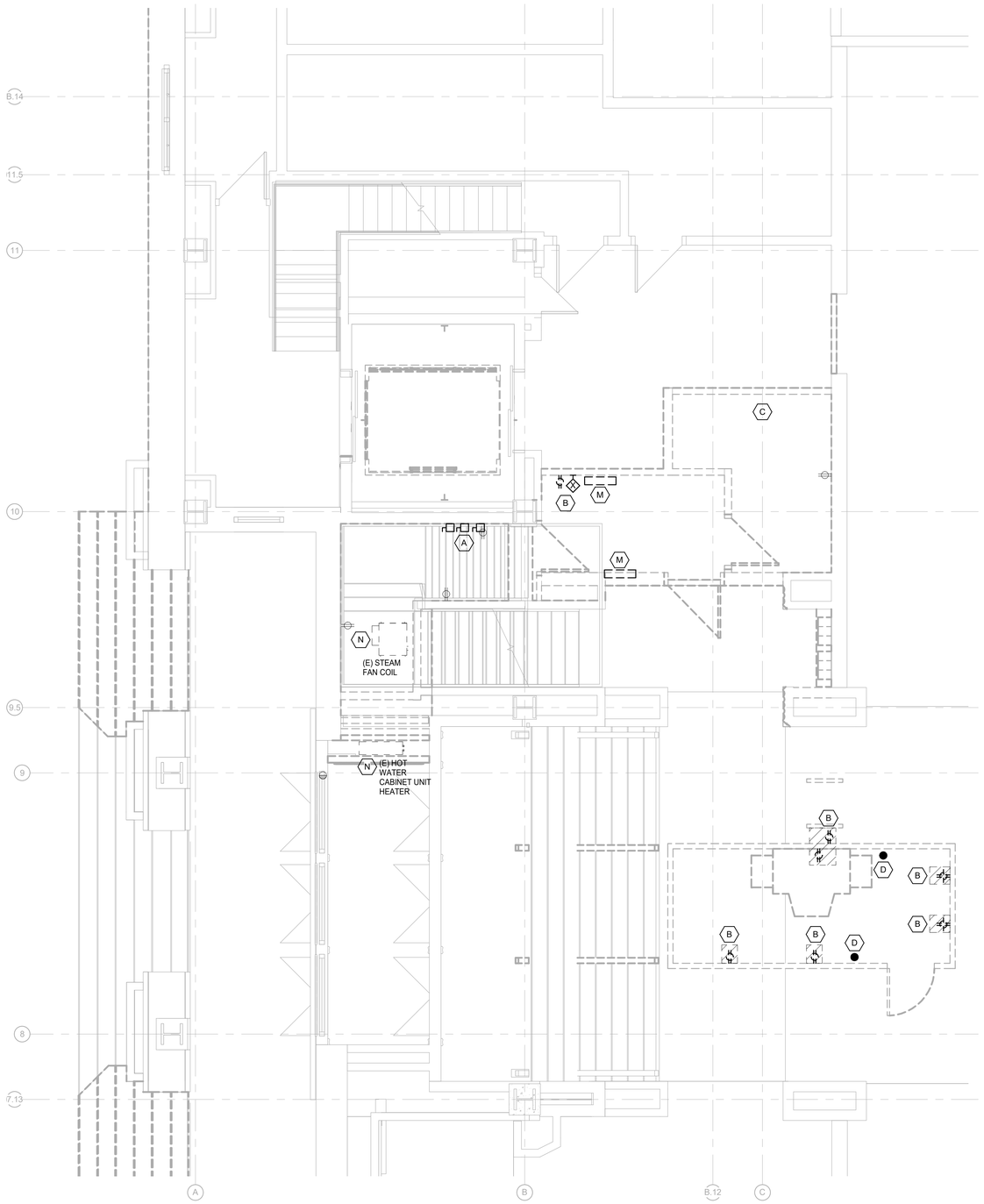

FIRST FLOOR - NORTH LAFAYETTE ELECTRICAL DEMOLITION PLAN

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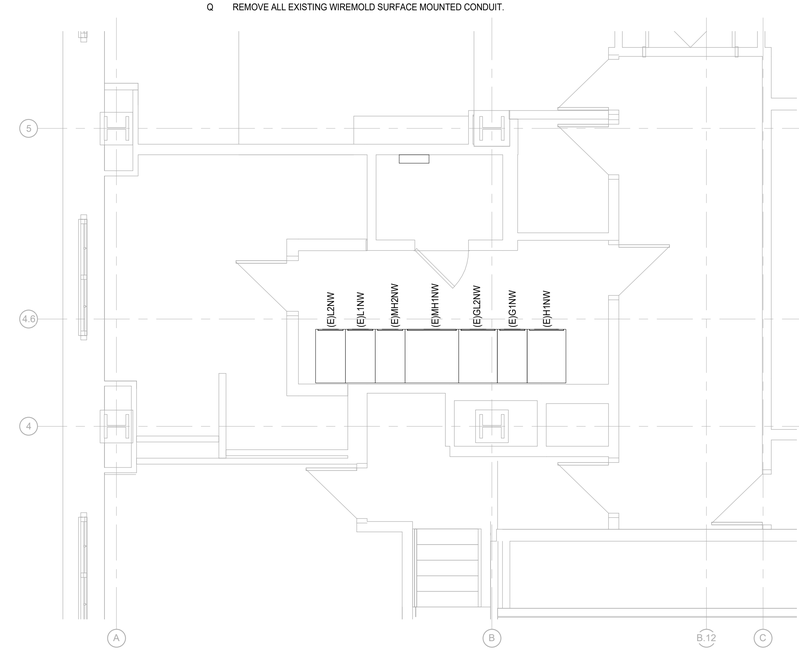
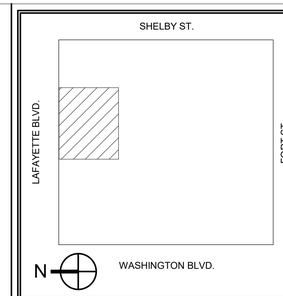


FIRST FLOOR - NORTH LAFAYETTE ELECTRICAL DEMOLITION PLAN (REFERENCE ONLY)

SCALE: 1/4" = 1'-0"



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SHEET NUMBER AND FILENAME	ED102

SHEET

2/14/2023 8:46:14 AM C:\REVIT LOCAL FILES\MI0029ZZ_E_B-10_C_abrown@pbanet.com.rvt

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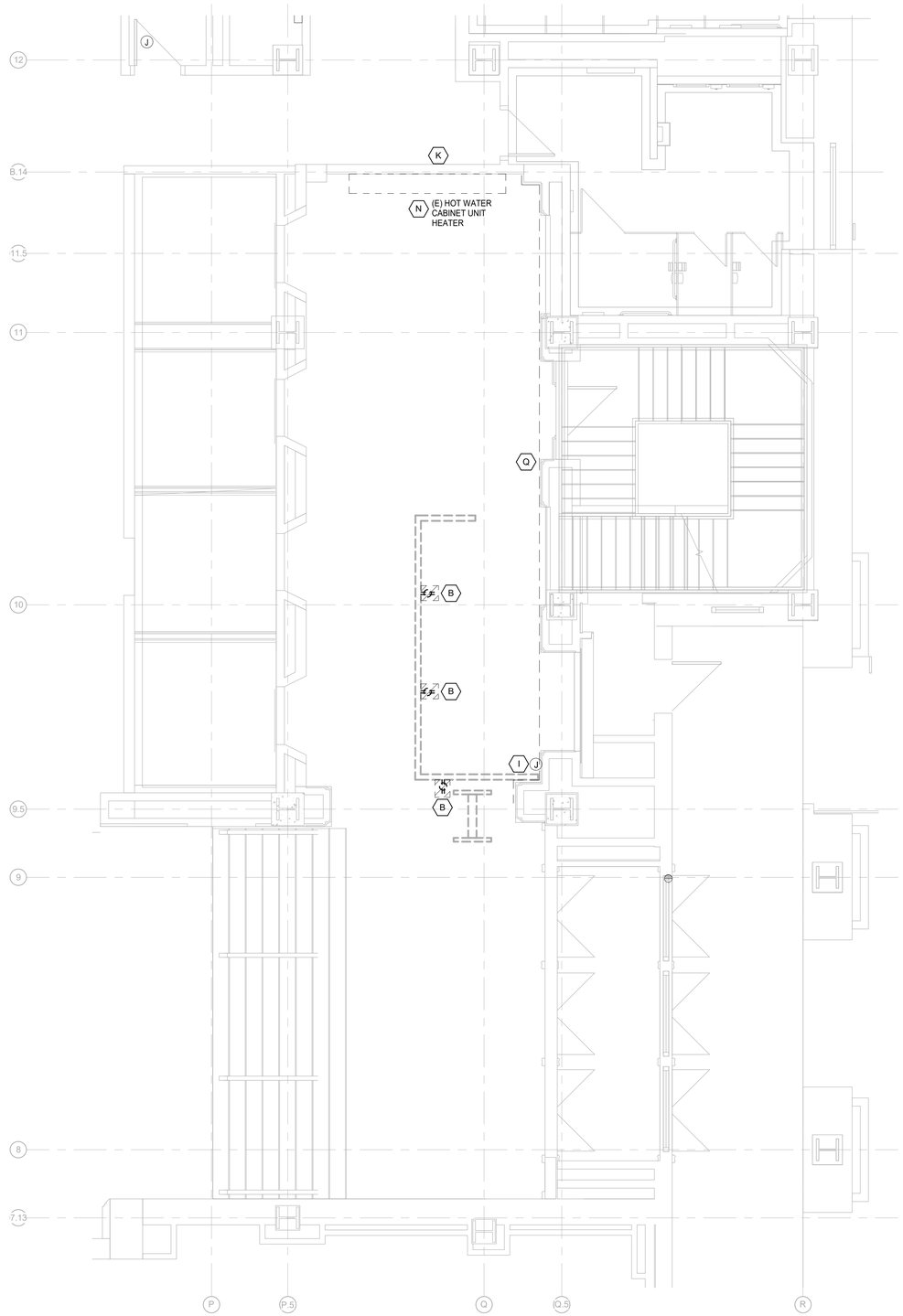

FIRST FLOOR - SOUTH FORT STREET ELECTRICAL DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

ELECTRICAL DEMOLITION GENERAL NOTES:

1 VISIT THE SITE PRIOR TO SUBMISSION OF BID TO EXAMINE THE EXISTING CONDITIONS AND THE EXTENT OF DEMOLITION WORK.

2 EXAMINE THE DRAWINGS OF OTHER TRADES AND BE FAMILIAR WITH THE DEMOLITION REQUIRED BY OTHER TRADES. PERFORM ALL INCIDENTAL ELECTRICAL DEMOLITION AND/OR RELOCATION REQUIRED TO FACILITATE THE DEMOLITION WORK OF OTHER TRADES, WHETHER OR NOT SPECIFICALLY INDICATED.

3 REMOVE EQUIPMENT OR MATERIALS AS INDICATED ON PLAN WITH CROSS HATCHING. DEMOLITION SHALL INCLUDE, BUT NOT BE LIMITED TO, THOSE COMPONENTS SHOWN.

4 COORDINATE WITH NEW WORK PLANS, ONE LINE DIAGRAMS AND RISER DIAGRAMS FOR EXTENT OF DEMOLITION WORK

5 PROVIDE PROPER SUPPORT FOR EXISTING TO REMAIN CONDUITS AND BOXES WHERE EXISTING SUPPORT IS TO BE REMOVED. RE-ROUTE BRANCH CIRCUIT CONDUITS AND RELOCATE JUNCTION BOXES AS REQUIRED TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND SYSTEMS IN CEILING SPACES.

6 REMOVE ALL CONDUIT AND WIRE BACK TO THE SOURCE OR NEAREST UPSTREAM DEVICE REMAINING IN SERVICE.

7 MAINTAIN ELECTRICAL SERVICE TO ALL LIGHTING FIXTURES, DEVICES AND EQUIPMENT THAT ARE TO REMAIN. EXTEND CONDUIT AND WIRE AS REQUIRED WHERE DEMOLITION WORK AFFECTS ELECTRICAL SERVICE TO DOWNSTREAM LOADS THAT ARE TO REMAIN.

8 DISPOSE OF ALL MATERIALS OFF SITE AND INCLUDE ALL COSTS FOR DISPOSAL IN BID. ALL MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, INCLUDING TCLP TESTING, PROPER DISPOSAL AND/OR RECYCLING OF FLUORESCENT LAMPS.

9 PROVIDE BLANK COVER PLATES WHERE SWITCHES AND DEVICES ARE REMOVED BUT EXISTING WALLS REMAIN INTACT.

10 RING OUT AND TAG ALL CIRCUITS AFFECTED BY THIS ALTERATION AT BOTH ENDS. MARK ALL UNUSED CIRCUIT BREAKERS "SPARE".

11 PROVIDE UPDATED TYPED-IN DIRECTORIES FOR ALL PANELS AFFECTED BY THIS ALTERATION.

12 VERIFY ALL UNDERGROUND AND IN SLAB UTILITY LOCATIONS PRIOR TO SAW-CUTTING OR PENETRATING ANY FLOOR SLAB.

13 COORDINATE ANY SHUT DOWN OF EXISTING SERVICES AND EQUIPMENT THAT ARE REMAINING IN USE WITH THE OWNER'S REPRESENTATIVE. WHERE EXISTING BUILDING SERVICE IS REQUIRED TO BE SHUT DOWN, INCLUDE ALL ASSOCIATED OVERTIME COSTS TO PERFORM THIS WORK DURING WEEKENDS AND EVENINGS INCLUDE ALL COSTS FOR PROVIDING TEMPORARY POWER WHERE SHUT DOWNS MUST OCCUR FOR PERIODS LONGER THAN THESE HOURS. COORDINATE ELECTRICAL SHUT DOWNS WITH THE OWNER 72 HOURS PRIOR TO SHUT DOWN.

DEMOLITION KEYED NOTES:

A REMOVE MECHANICAL SWITCHES, ASSOCIATED CONDUITS, AND BRANCH CIRCUITING BACK TO SOURCE AS REQUIRED PER MECHANICAL DEMOLITION.

B REMOVE EXISTING RECEPTACLES AND ASSOCIATED BRANCH CIRCUIT BACK TO SOURCE OR NEAREST REMAINING POWERED DEVICE.

C REMOVE EXISTING CONDUIT ALONG WALL AND CAP.

D CONDUIT STUBBED INTO EXISTING GUARD BOOTH TO BE REMOVED AND CAPPED.

E RELOCATE SECURITY EQUIPMENT WITHIN CONFINES OF NEWLY DESIGNATED ELECTRICAL ROOM PER NEW WORK PLANS.

F RELOCATE EXISTING CONDUIT AND JUNCTION BOXES AS REQUIRED FOR LOWERED FLOOR. COORDINATE IN FIELD.

G CONDUIT TO BE REROUTED WHERE FLOOR IS LOWERED. COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL ELEVATIONS. LOWER EXISTING LIGHTING FIXTURES AS REQUIRED. TYPICAL FOR INDICATED AREA.

I REMOVE CIRCUITING FOR EXISTING BOOTH LOCATED AT BOX APPROXIMATELY 95" A.F.F. LEAVE BOX ABANDONED.

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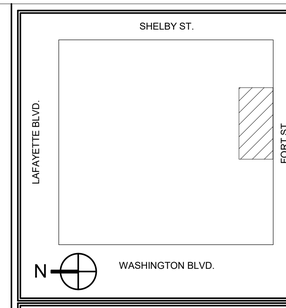

KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

CONSULTANT IDENTIFICATION

STATE OF MICHIGAN
ERIC MICHAEL GRAETTINGER
ENGINEER
No. 6201052164
LICENSED PROFESSIONAL ENGINEER

STAMP OR SEAL

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SMB
CHECKED BY	EMG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ELECTRICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	ED103

SHEET

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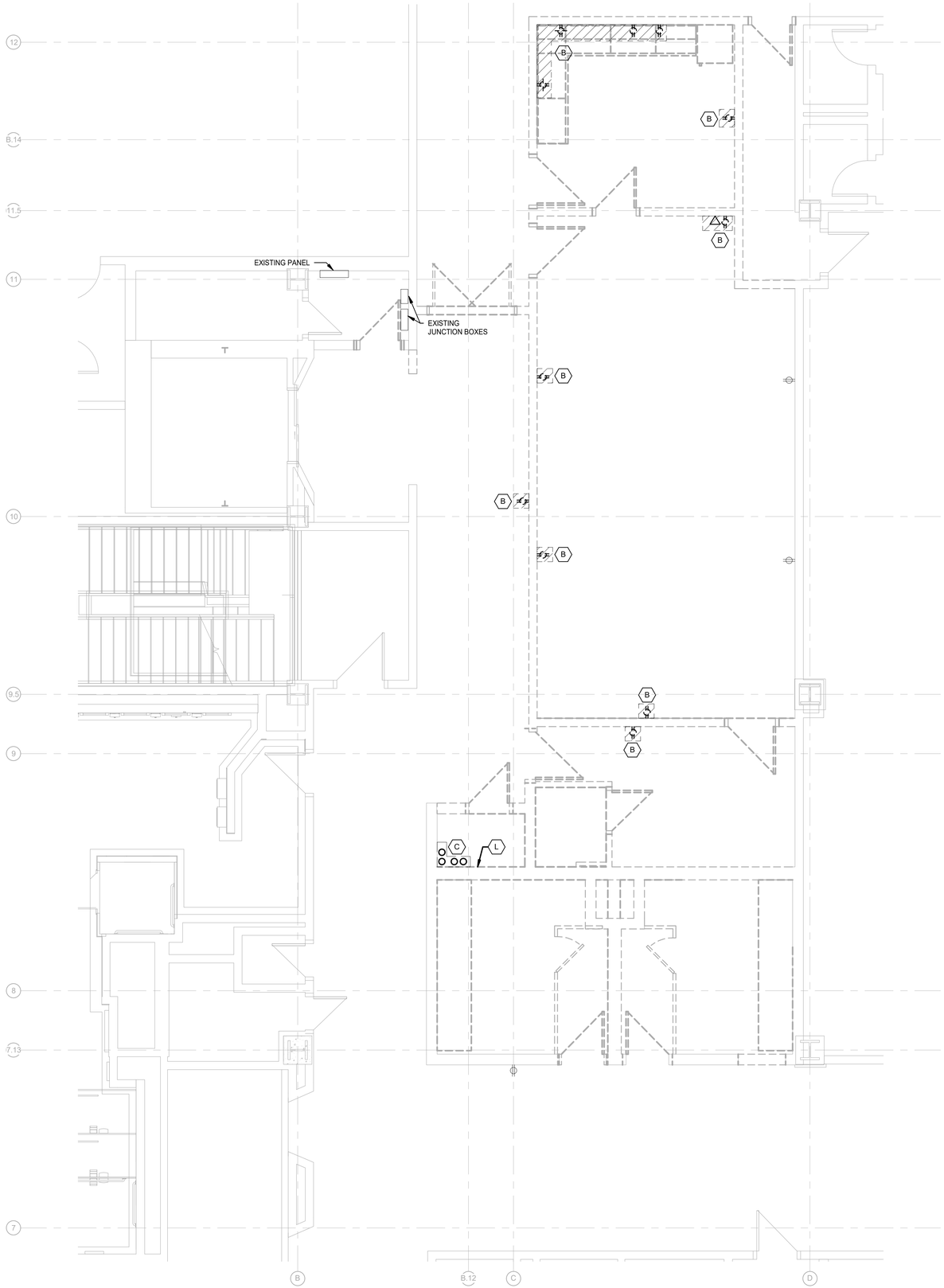

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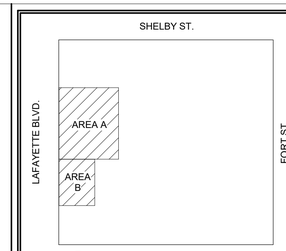
SECOND FLOOR - OPTION 1 ELECTRICAL DEMOLITION PLAN

SCALE: 1/4" = 1'-0"



KEY PLAN

GRAPHIC SCALE

1/4"=1'-0" 0 4" 8"

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

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BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SMB
CHECKED BY	EMG
FLOOR NO.	SECOND FLOOR
DISCIPLINE	ELECTRICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	ED105

SHEET

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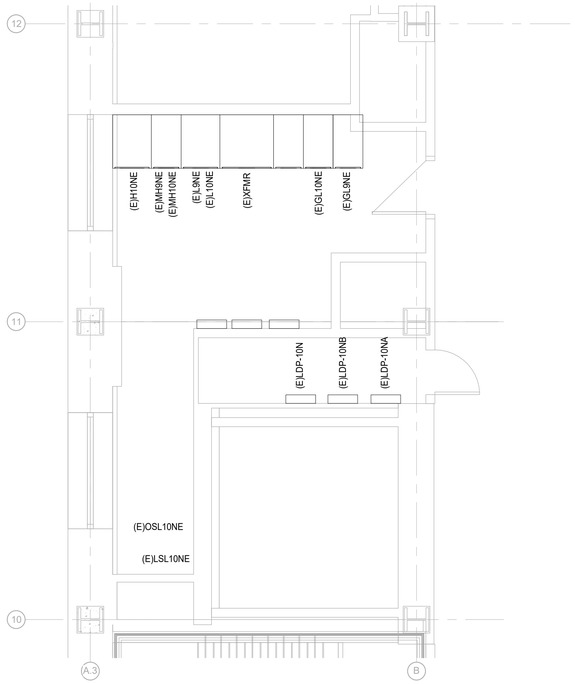
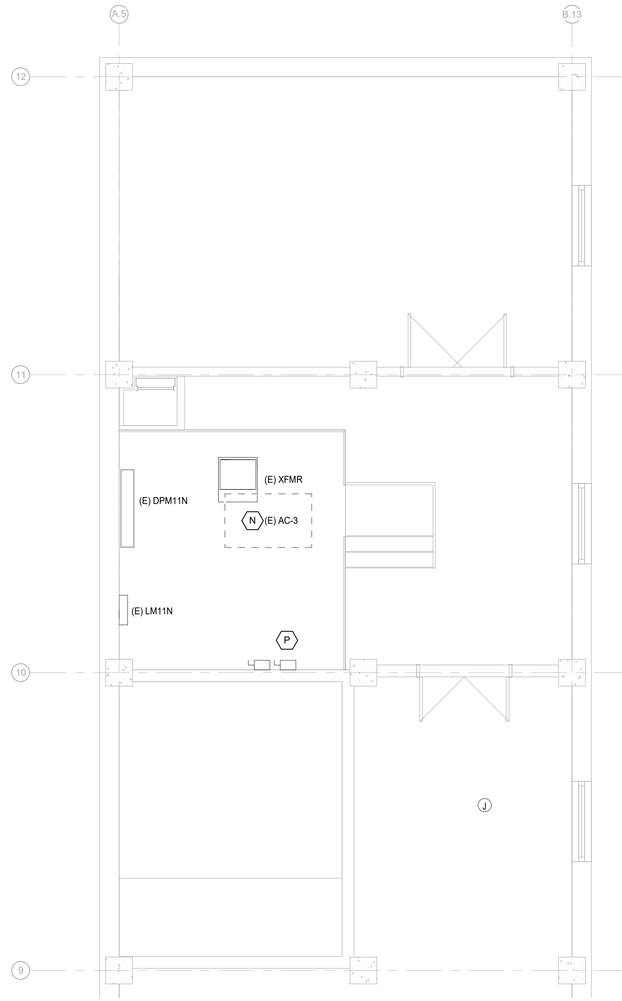


TENTH FLOOR - ELEVATOR DEMOLITION PLAN (REFERENCE ONLY)

SCALE: 1/4" = 1'-0"



PENTHOUSE - ELEVATOR DEMOLITION PLAN

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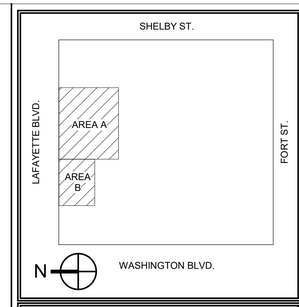

KEY PLAN

1/4"=1'-0" 0 4" 8'

GRAPHIC SCALE

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BUILDING

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GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SMB
CHECKED BY	EMG
FLOOR NO.	TENTH & PENTHOUSE
DISCIPLINE	ELECTRICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	ED106

SHEET

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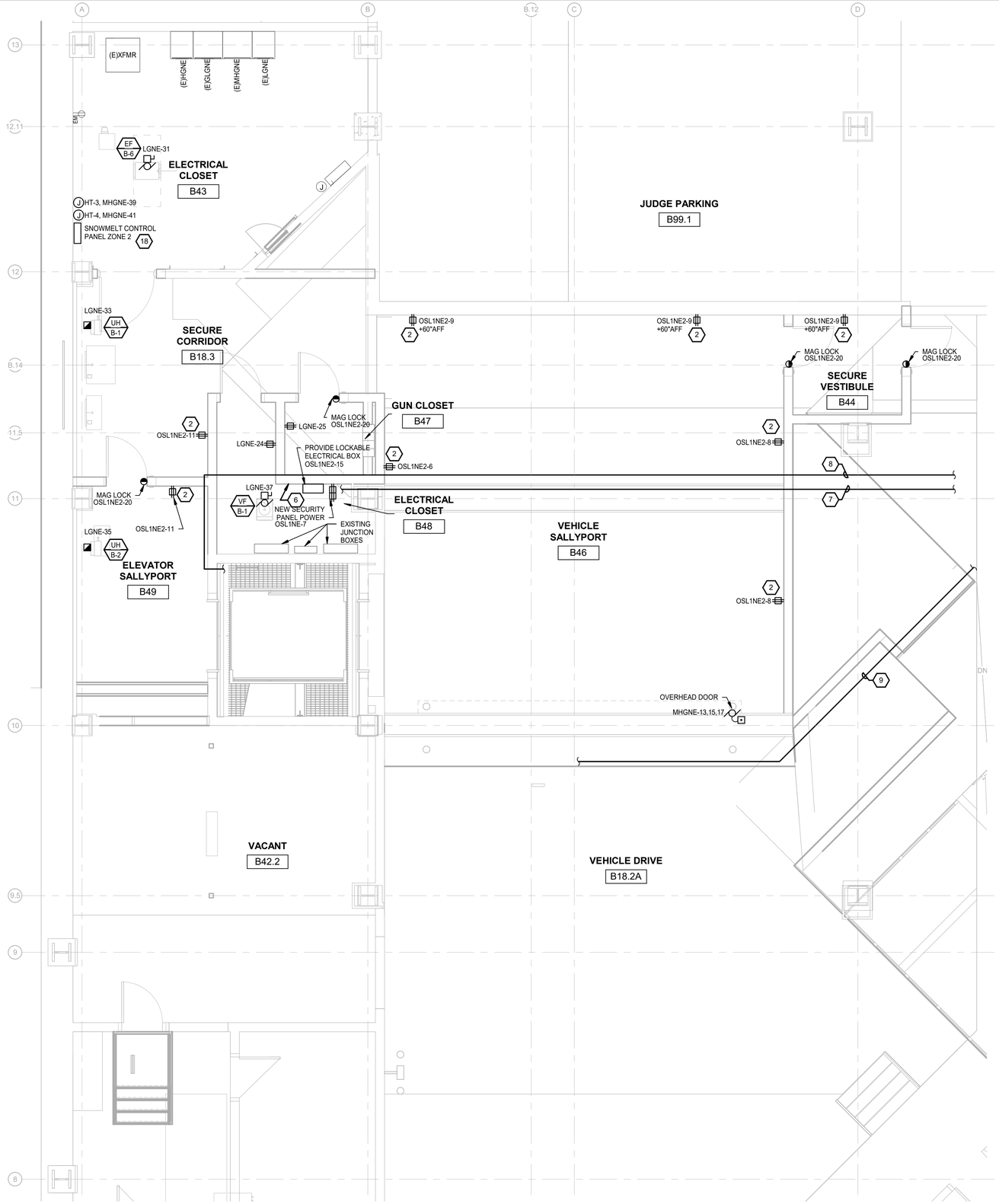

BASEMENT FLOOR - ELECTRICAL PLAN - AREA A

SCALE: 1/4" = 1'-0"

ELECTRICAL GENERAL NOTES:

1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS. PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
6. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
7. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
8. COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
9. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
10. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
11. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.

CONSTRUCTION KEYED NOTES:

1. NO CONDUIT FOR ANY DEVICES/EQUIPMENT SHAL BE ROUTED BELOW WALK-THROUGH METAL DETECTOR (WTMD) LOCATION. ROUTE CONDUIT AROUND AREA.
2. PROVIDE TAMPER PROOF COVERS SIMILAR TO HUBBELL SECURITY WALL PLATES ON INDICATED RECEPTACLE.
3. NOT USED.
4. DEVICE WIRING AND CABLING TO BE FED FROM BELOW.
5. ROUTE BRANCH CIRCUIT UP THROUGH SHAFT AND INTO WALL TO FEED RECEPTACLES ALONG GUARD BOOTH.
6. RELOCATE EXISTING SECURITY PANELS, ASSOCIATED CONDUIT, ASSOCIATED BRANCH CIRCUITING TO INDICATE LOCATION.
7. RUN CONDUIT OVERHEAD FROM ELECT CLOSET TO COMMAND AND CONTROL CENTER SECURITY CLOSET LOCATED ON THE FIRST FLOOR. RUN SEPARATE CONDUITS FOR DATA AND SECURITY.RUN TIGHT TO STRUCTURAL DECK, MIN. 9'-0" AFF. CORE THROUGH FLOORS AND WALLS AS REQUIRED.
8. RUN NEW CONDUIT FOR CONNECTION TO ELEVATOR CONTROL EQUIPMENT IN THE HOISTWAY DOWN TO THE BASEMENT LEVEL TO COMMAND AND CONTROL CENTER SECURITY CLOSET LOCATED ON THE FIRST FLOOR. RUN SEPARATE CONDUITS FOR DATA AND SECURITY. RUN TIGHT TO STRUCTURAL DECK, MIN. 9'-0" AFF. CORE THROUGH FLOORS AND WALLS AS REQUIRED.
9. RUN CONDUIT OVERHEAD FROM GUARD BOOTH TO COMMAND AND CONTROL CENTER SECURITY CLOSET LOCATED ON THE FIRST FLOOR. RUN SEPARATE CONDUITS FOR DATA AND SECURITY. RUN TIGHT TO STRUCTURAL DECK. CORE THROUGH FLOORS AND WALLS AS REQUIRED.
10. RUN (1) 2" CONDUIT ON BASEMENT LEVEL FROM NEW SECOND FLOOR ELECT CLOSET TO COMMAND AND CONTROL CENTER SECURITY CLOSET; PROVIDE PULL STRING. RUN (2) SEPARATE 2" CONDUITS FOR DATA AND SECURITY; PROVIDE PULL STRINGS.
11. RUN (1) 2"CONDUIT ON BASEMENT LEVEL FROM NEW ELECT CLOSET TO COMMAND AND CONTROL CENTER SECURITY CLOSET; PROVIDE PULL STRING. RUN (2) SEPARATE 2" CONDUITS FOR DATA AND SECURITY; PROVIDE PULL STRINGS.
12. RUN (1) 2" CONDUIT ON BASEMENT LEVEL FROM FORT ST GUARD BOOTH TO COMMAND AND CONTROL CENTER SECURITY CLOSET; PROVIDE PULL STRING. RUN (2) SEPARATE 2" CONDUITS FOR DATA AND SECURITY; PROVIDE PULL STRINGS.
13. RUN (1) 2" CONDUIT ON BASEMENT LEVEL FROM GUARD BOOTH TO COMMAND AND CONTROL CENTER SECURITY CLOSET; PROVIDE PULL STRING. RUN (2) SEPARATE 2" CONDUITS FOR DATA AND SECURITY; PROVIDE PULL STRINGS.
14. RUN (1) 2" CONDUIT OVERHEAD FROM USMS CLOSET TO ELECT CLOSET BELOW TO BASEMENT TO COMMAND AND CONTROL CENTER SECURITY CLOSET LOCATED ON THE FIRST FLOOR; PROVIDE PULL STRING. RUN (2) SEPARATE 2" CONDUITS FOR DATA AND SECURITY; PROVIDE PULL STRINGS. CORE THROUGH FLOORS AND WALLS AS REQUIRED.
15. CIRCUIT EXISTING DISCONNECT SWITCH FOR ELEVATOR 9 TO NEW 3 POLE 60A BREAKER IN PANELBOARD OSL10NE.CIRCUIT EXISTING ELEVATOR 9 CONTROLS TO 20A CIRCUIT AVALIBLE IN PANELBOARD OSL10NE.
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17. REPAIR EXISTING SERVICE OUTLET AND LIGHTING CIRCUIT IN SECONDARY ELEVATOR SPACE BELOW BY REPLACING WIRING TO SOURCE.
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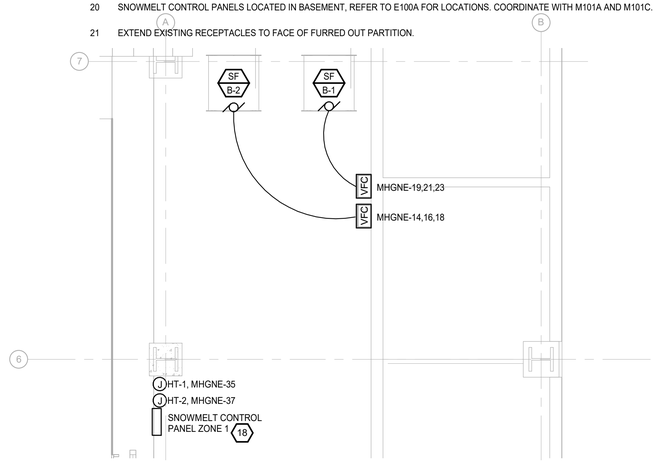
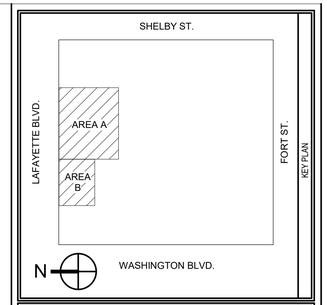
20. SNOWMELT CONTROL PANELS LOCATED IN BASEMENT, REFER TO E100A FOR LOCATIONS. COORDINATE WITH M101A AND M101C.
21. EXTEND EXISTING RECEPTACLES TO FACE OF FURRED OUT PARTITION.



BASEMENT FLOOR - ELECTRICAL PLAN - AREA B

SCALE: 1/4" = 1'-0"



KEY PLAN

GRAPHIC SCALE: 1/4"=1'-0" 0 4' 8'

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

STAMP OR SEAL

STATE OF MICHIGAN
ERIC MICHAEL GRAETTINGER
ENGINEER
No. 6201052164
LICENSED PROFESSIONAL ENGINEER

OWNER IDENTIFICATION

General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SMB
CHECKED BY	EMG
FLOOR NO.	BASEMENT
DISCIPLINE	ELECTRICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	E100A

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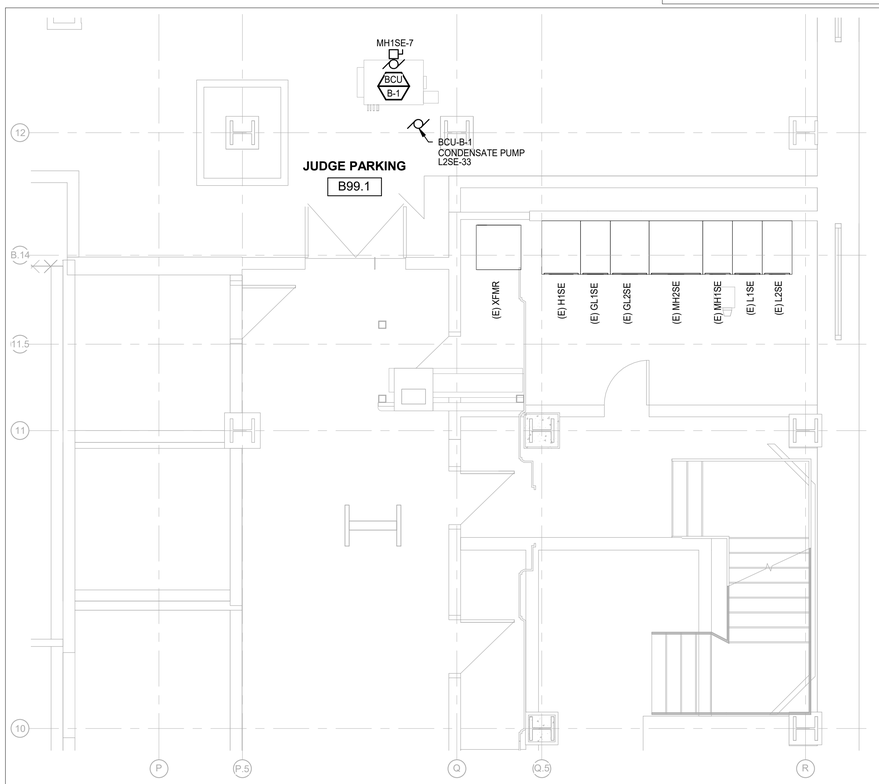
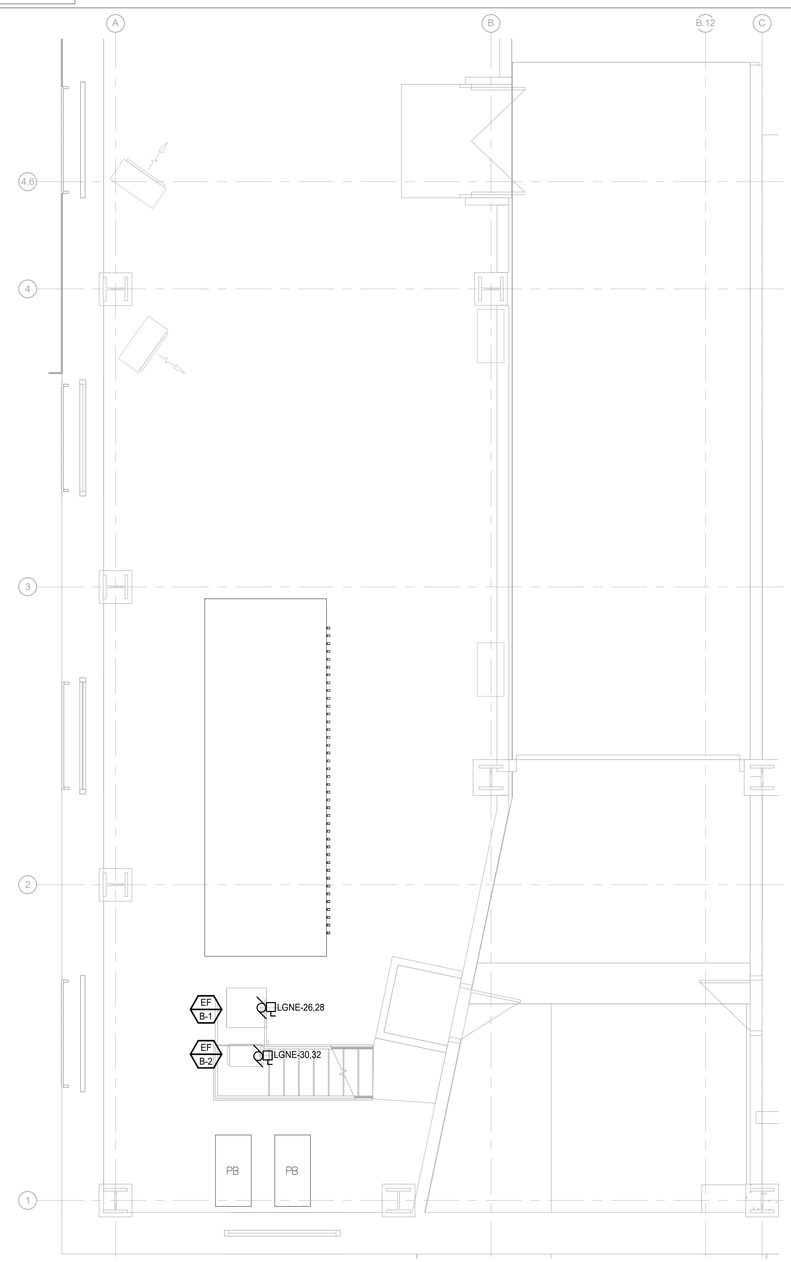


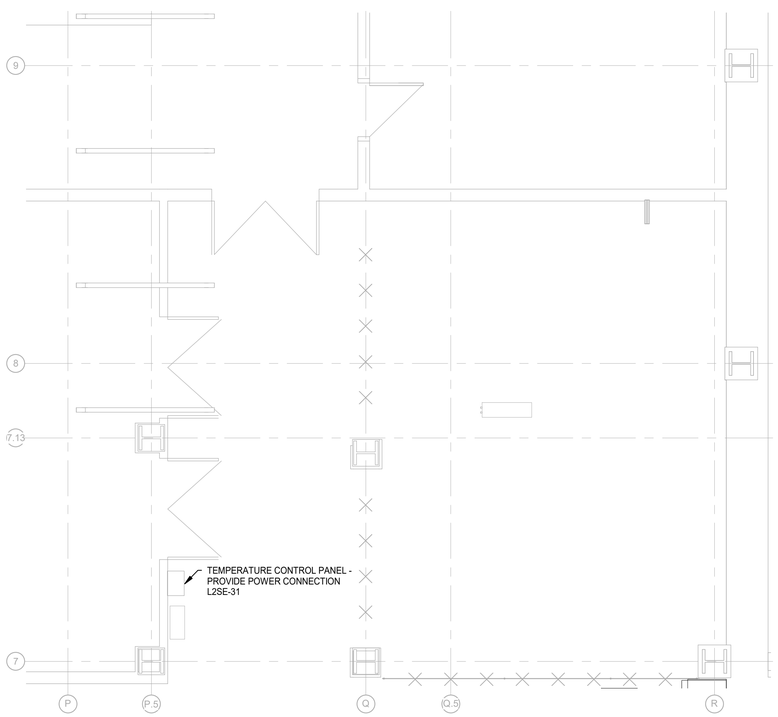
BASEMENT FLOOR - ELECTRICAL PLAN - AREA D

SCALE: 1/4" = 1'-0"



BASEMENT FLOOR - ELECTRICAL PLAN - AREA F

SCALE: 1/4" = 1'-0"



BASEMENT FLOOR - ELECTRICAL PLAN - AREA E

SCALE: 1/4" = 1'-0"

ELECTRICAL GENERAL NOTES:

1 THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS. PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.

2 INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.

3 COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.

4 PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.

5 TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.

6 MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.

7 COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.

8 COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.

9 REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.

10 REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.

11 REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.

CONSTRUCTION KEYED NOTES:

1 NO CONDUIT FOR ANY DEVICES/EQUIPMENT SHAL BE ROUTED BELOW WALK-THROUGH METAL DETECTOR (WTMD) LOCATION. ROUTE CONDUIT AROUND AREA.

2 PROVIDE TAMPER PROOF COVERS SIMILAR TO HUBBELL SECURITY WALL PLATES ON INDICATED RECEPTACLE.

3 NOT USED.

4 DEVICE WIRING AND CABLING TO BE FED FROM BELOW.

5 ROUTE BRANCH CIRCUIT UP THROUGH SHAFT AND INTO WALL TO FEED RECEPTACLES ALONG GUARD BOOTH.

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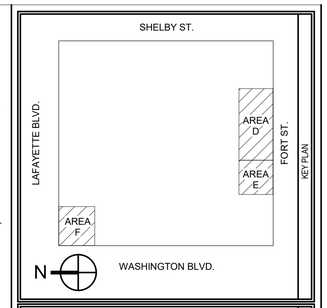

1/4"=1'-0" 0 4' 8'
GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com
DESIGNER IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2021-0206
CONSULTANT IDENTIFICATION

STATE OF MICHIGAN
ERIC MICHAEL GRAETTINGER
ENGINEER
No. 6201052104
LICENSED PROFESSIONAL ENGINEER
STAMP OR SEAL

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604
OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SMB
CHECKED BY	EMG
FLOOR NO.	BASEMENT
DISCIPLINE	ELECTRICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	E100B

SHEET

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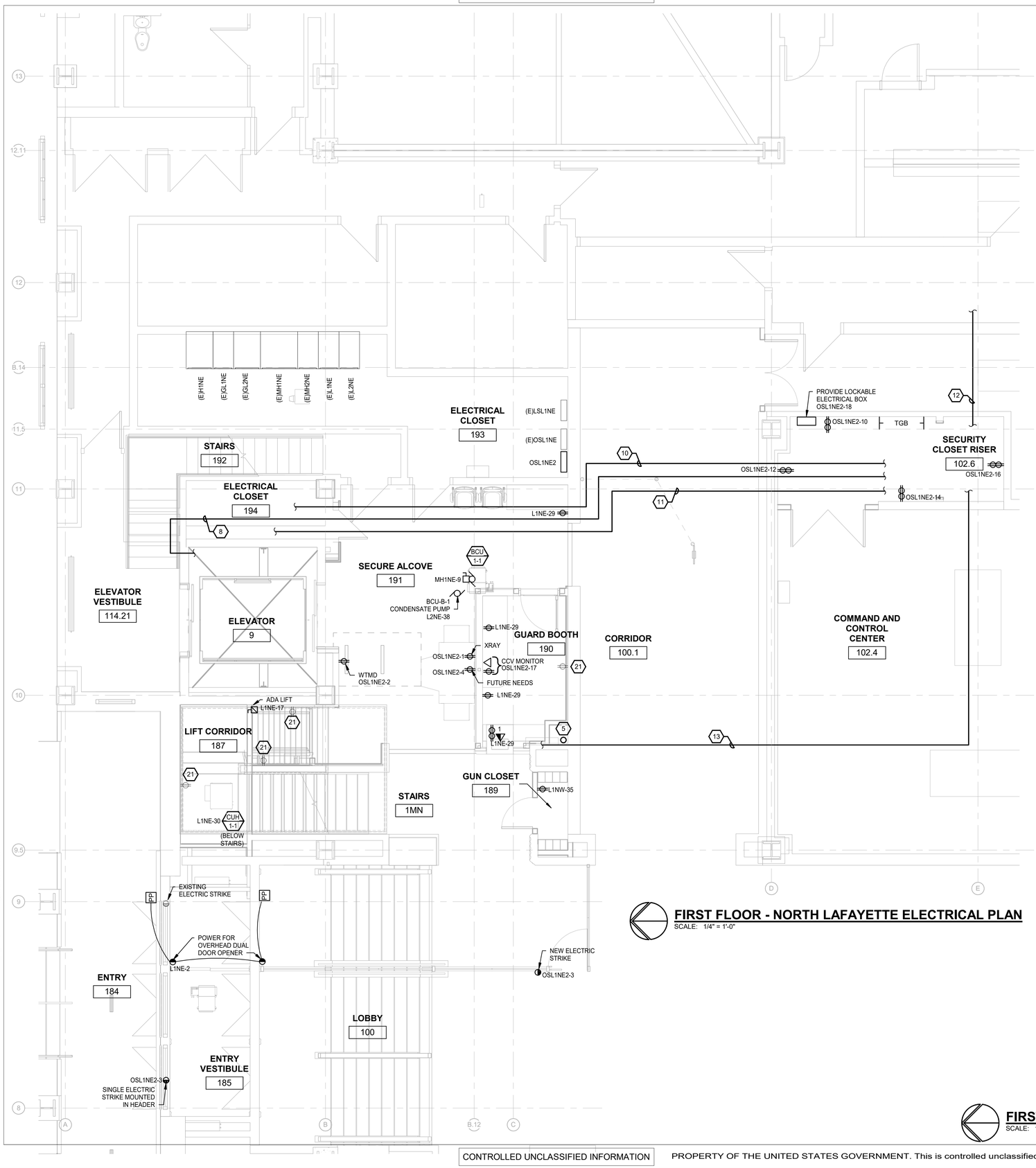

FIRST FLOOR - NORTH LAFAYETTE ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

ELECTRICAL GENERAL NOTES:

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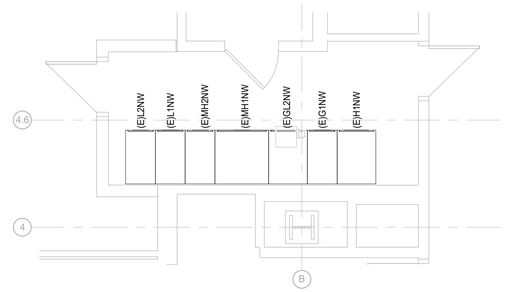
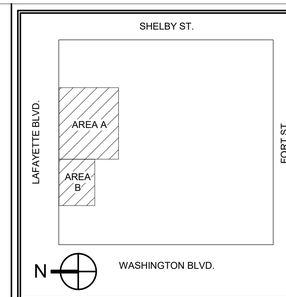


FIRST FLOOR - NORTH LAFAYETTE ELECTRICAL PLAN (REFERENCE ONLY)

SCALE: 1/4" = 1'-0"



KEY PLAN

1/4"=1'-0" 0 4" 8"

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
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Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

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PBA Project No.: 2021-0206

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ERIC MICHAEL GRAETTINGER
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230 South Dearborn St.
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ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SMB
CHECKED BY	EMG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ELECTRICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	E101

SHEET

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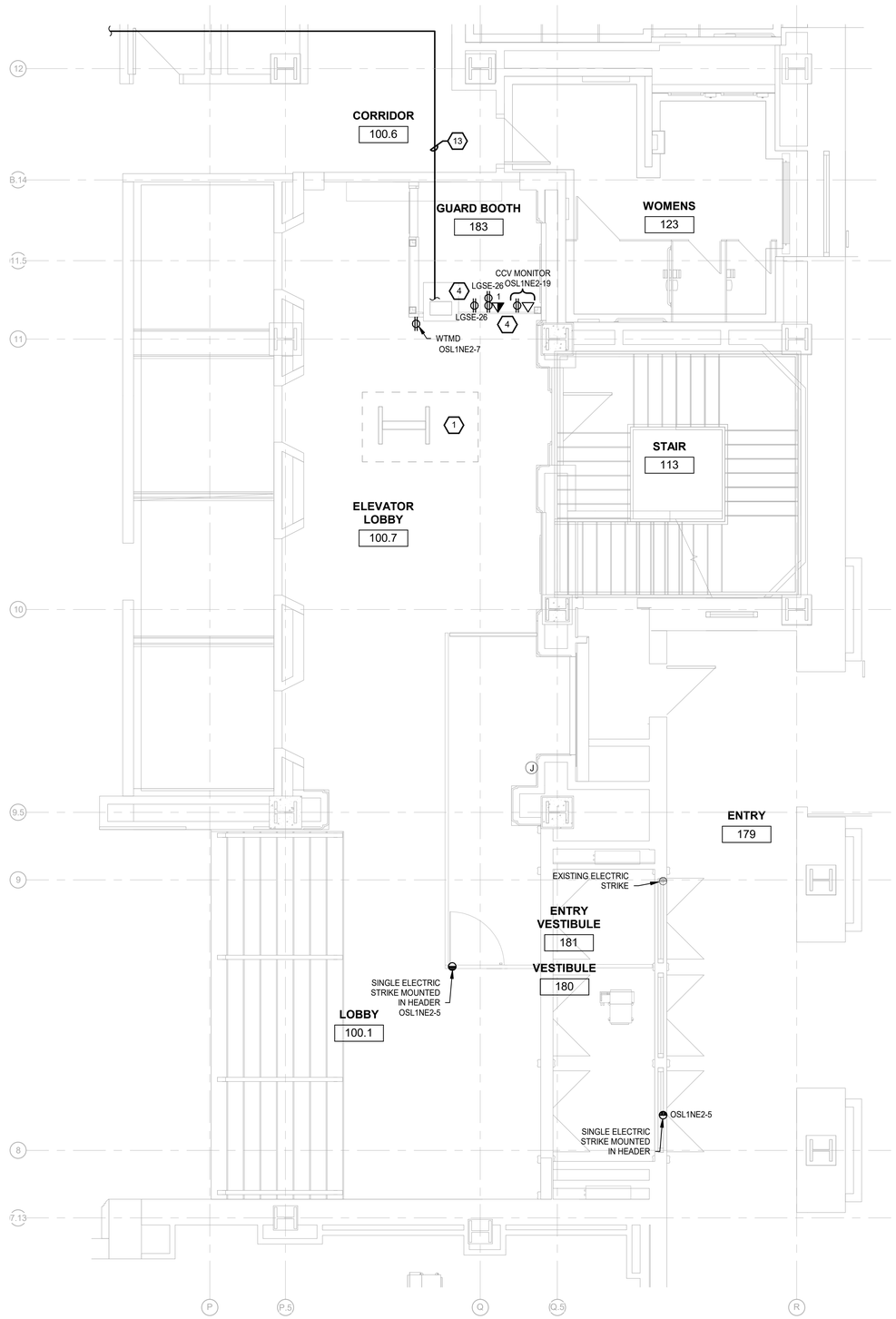

FIRST FLOOR - SOUTH FORT STREET ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

ELECTRICAL GENERAL NOTES:

1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS. PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
6. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
7. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
8. COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
9. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
10. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
11. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.

CONSTRUCTION KEYED NOTES:

1. NO CONDUIT FOR ANY DEVICES/EQUIPMENT SHAL BE ROUTED BELOW WALK-THROUGH METAL DETECTOR (WTMD) LOCATION. ROUTE CONDUIT AROUND AREA.
2. PROVIDE TAMPER PROOF COVERS SIMILAR TO HUBBELL SECURITY WALL PLATES ON INDICATED RECEPTACLE.
3. NOT USED.
4. DEVICE WIRING AND CABLING TO BE FED FROM BELOW.
5. ROUTE BRANCH CIRCUIT UP THROUGH SHAFT AND INTO WALL TO FEED RECEPTACLES ALONG GUARD BOOTH.
6. RELOCATE EXISTING SECURITY PANELS, ASSOCIATED CONDUIT, ASSOCIATED BRANCH CIRCUITING TO INDICATE LOCATION.
7. RUN CONDUIT OVERHEAD FROM ELECT CLOSET TO COMMAND AND CONTROL CENTER SECURITY CLOSET LOCATED ON THE FIRST FLOOR. RUN SEPARATE CONDUITS FOR DATA AND SECURITY.RUN TIGHT TO STRUCTURAL DECK, MIN. 9'-0" AFF. CORE THROUGH FLOORS AND WALLS AS REQUIRED.
8. RUN NEW CONDUIT FOR CONNECTION TO ELEVATOR CONTROL EQUIPMENT IN THE HOISTWAY DOWN TO THE BASEMENT LEVEL TO COMMAND AND CONTROL CENTER SECURITY CLOSET LOCATED ON THE FIRST FLOOR. RUN SEPARATE CONDUITS FOR DATA AND SECURITY. RUN TIGHT TO STRUCTURAL DECK, MIN. 9'-0" AFF. CORE THROUGH FLOORS AND WALLS AS REQUIRED.
9. RUN CONDUIT OVERHEAD FROM GUARD BOOTH TO COMMAND AND CONTROL CENTER SECURITY CLOSET LOCATED ON THE FIRST FLOOR. RUN SEPARATE CONDUITS FOR DATA AND SECURITY. RUN TIGHT TO STRUCTURAL DECK. CORE THROUGH FLOORS AND WALLS AS REQUIRED.
10. RUN (1) 2" CONDUIT ON BASEMENT LEVEL FROM NEW SECOND FLOOR ELECT CLOSET TO COMMAND AND CONTROL CENTER SECURITY CLOSET; PROVIDE PULL STRING. RUN (2) SEPARATE 2" CONDUITS FOR DATA AND SECURITY; PROVIDE PULL STRINGS.
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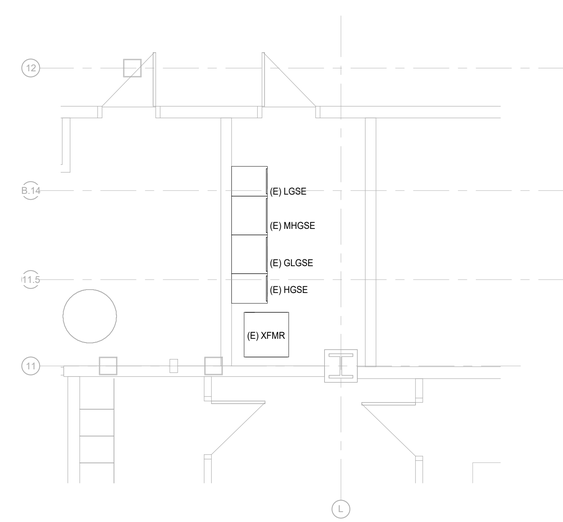
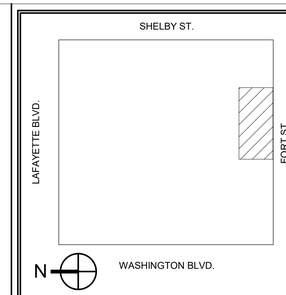
12. RUN (1) 2" CONDUIT ON BASEMENT LEVEL FROM FORT ST GUARD BOOTH TO COMMAND AND CONTROL CENTER SECURITY CLOSET; PROVIDE PULL STRING. RUN (2) SEPARATE 2" CONDUITS FOR DATA AND SECURITY; PROVIDE PULL STRINGS.
13. RUN (1) 2" CONDUIT ON BASEMENT LEVEL FROM GUARD BOOTH TO COMMAND AND CONTROL CENTER SECURITY CLOSET; PROVIDE PULL STRING. RUN (2) SEPARATE 2" CONDUITS FOR DATA AND SECURITY; PROVIDE PULL STRINGS.
14. RUN (1) 2" CONDUIT OVERHEAD FROM USMS CLOSET TO ELECT CLOSET BELOW TO BASEMENT TO COMMAND AND CONTROL CENTER SECURITY CLOSET LOCATED ON THE FIRST FLOOR; PROVIDE PULL STRING. RUN (2) SEPARATE 2" CONDUITS FOR DATA AND SECURITY; PROVIDE PULL STRINGS. CORE THROUGH FLOORS AND WALLS AS REQUIRED.
15. CIRCUIT EXISTING DISCONNECT SWITCH FOR ELEVATOR 9 TO NEW 3 POLE 60A BREAKER IN PANELBOARD OSL10NE.CIRCUIT EXISTING ELEVATOR 9 CONTROLS TO 20A CIRCUIT AVALIBLE IN PANELBOARD OSL10NE.
16. SNOW OWL AERIAL GENERAL-PURPOSE SNOW SENSOR LOCATED ON 3RD FLOOR ROOF. REFER TO M103 FOR EXACT LOCATION. PROVIDE (1) 20A 120V CIRCUIT FROM NEAREST PANELBOARD FOR BOTH SNOW MELT AREA SNOW OWL SENSORS.
17. REPAIR EXISTING SERVICE OUTLET AND LIGHTING CIRCUIT IN SECONDARY ELEVATOR SPACE BELOW BY REPLACING WIRING TO SOURCE.
18. SNOWMELT CONTROL PANEL TO INCLUDE (2) 40A BREAKERS FED FROM MHGNE FOR JUNCTION BOXES AS INDICATED. CONTRACTOR TO FIELD VERIFY LOCATION WITH OWNER AND A/E PRIOR TO INSTALLATION
20. SNOWMELT CONTROL PANELS LOCATED IN BASEMENT, REFER TO E100A FOR LOCATIONS. COORDINATE WITH M101A AND M101C.
21. EXTEND EXISTING RECEPTACLES TO FACE OF FURRED OUT PARTITION.



BASEMENT FLOOR - ELECTRICAL ROOM PLAN (REFERENCE ONLY)

SCALE: 1/4" = 1'-0"



KEY PLAN

GRAPHIC SCALE

1/4"=1'-0" 0 4' 8'

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

DESIGNER IDENTIFICATION
FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION
Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

STAMP OR SEAL

STATE OF MICHIGAN
ERIC MICHAEL GRAETTINGER
ENGINEER
No. 62010521 64
LICENSED PROFESSIONAL ENGINEER

OWNER IDENTIFICATION
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SMB
CHECKED BY	EMG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ELECTRICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	E102

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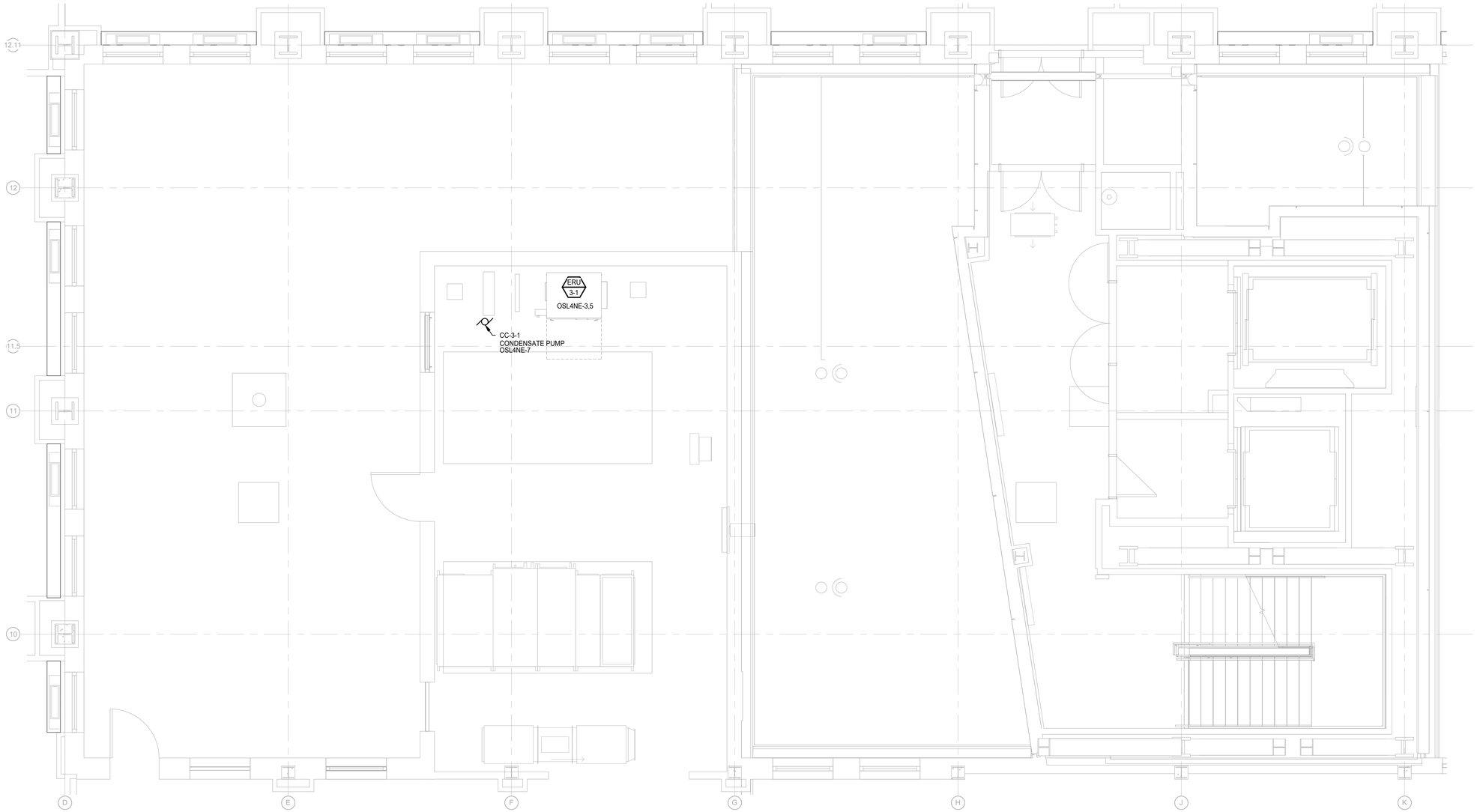

THIRD FLOOR - ELECTRICAL PLAN

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4 DEVICE WIRING AND CABLING TO BE FED FROM BELOW.

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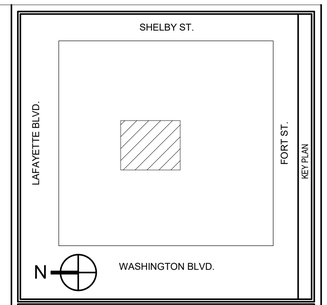

GRAPHIC SCALE: 1/4"=1'-0" 0 4' 8'

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

CONSULTANT IDENTIFICATION

STATE OF MICHIGAN
ERIC MICHAEL GRAETTINGER
ENGINEER
No. 6201052164
LICENSED PROFESSIONAL ENGINEER

STAMP OR SEAL

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SMB
CHECKED BY	EMG
FLOOR NO.	THIRD FLOOR
DISCIPLINE	ELECTRICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	E103

SHEET

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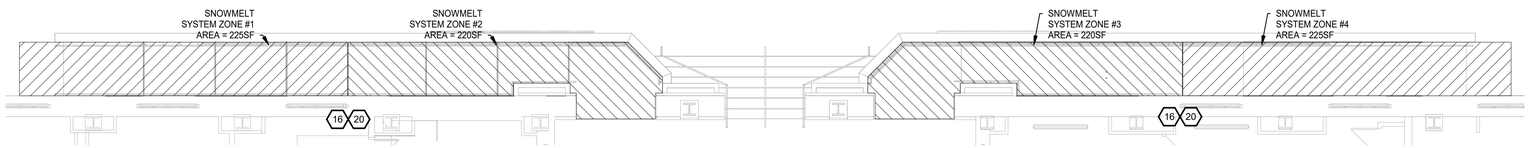

FIRST FLOOR - EXTERIOR RAMP ELECTRICAL PLAN

SCALE: 1/8" = 1'-0"

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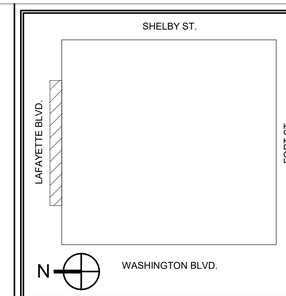


KEY PLAN

GRAPHIC SCALE

1/8"=1'-0" 0 8' 16'

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

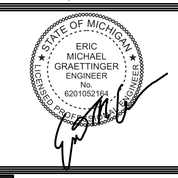
CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

CONSULTANT IDENTIFICATION



STAMP OR SEAL

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SMB
CHECKED BY	EMG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ELECTRICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	E104

SHEET

2/14/2023 8:45:32 AM C:\REVIT LOCAL FILES\MI0029ZZ_E_B-10_C_abrown@pbsnet.com.rvt

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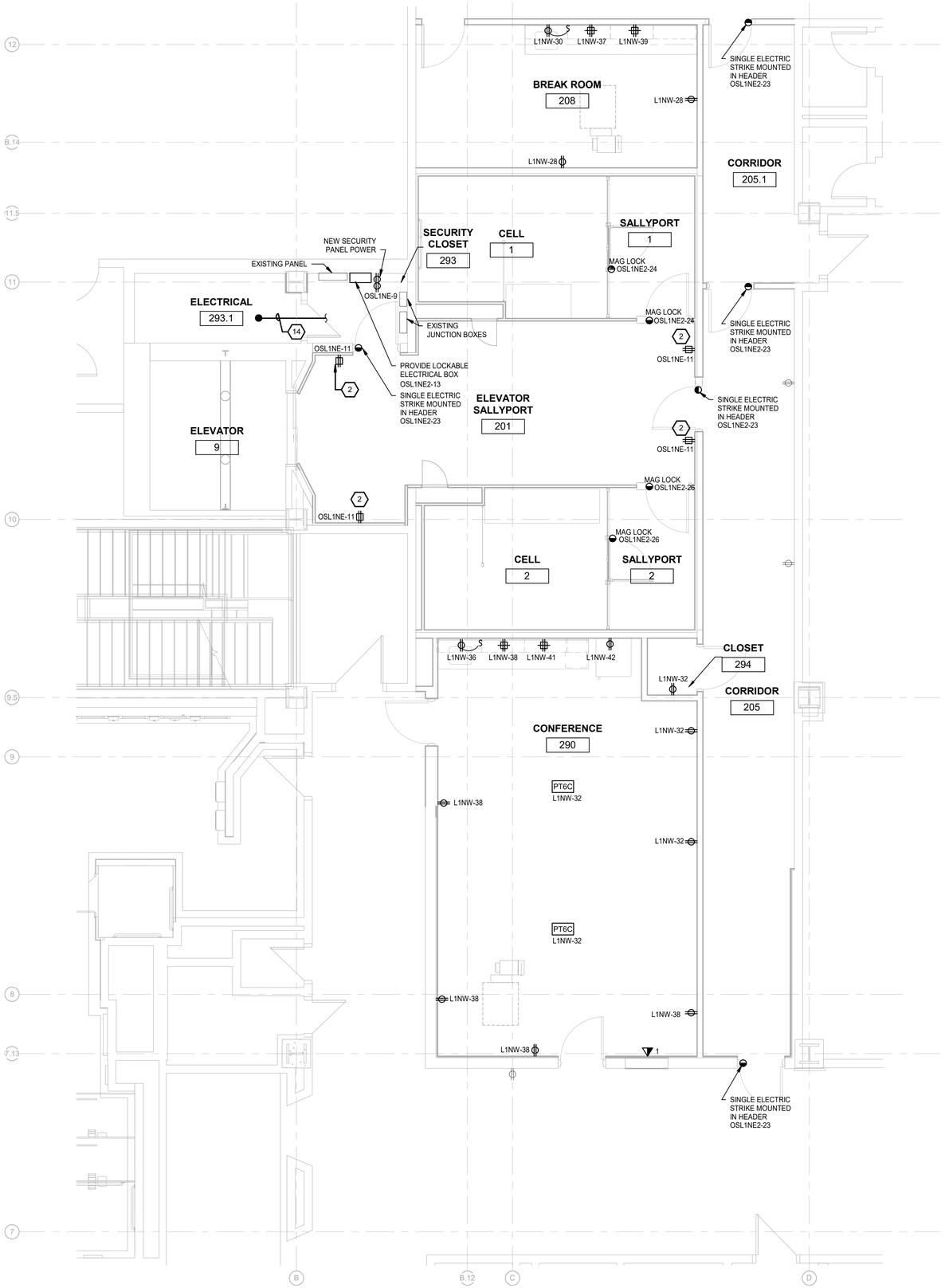


ELECTRICAL GENERAL NOTES:

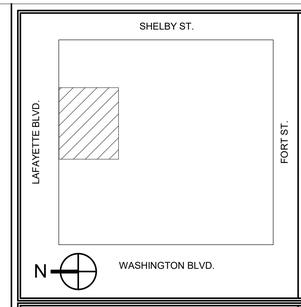
1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS. PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
6. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
7. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
8. COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
9. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
10. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
11. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.

CONSTRUCTION KEYED NOTES:

1. NO CONDUIT FOR ANY DEVICES/EQUIPMENT SHAL BE ROUTED BELOW WALK-THROUGH METAL DETECTOR (WTMD) LOCATION. ROUTE CONDUIT AROUND AREA.
2. PROVIDE TAMPER PROOF COVERS SIMILAR TO HUBBELL SECURITY WALL PLATES ON INDICATED RECEPTACLE.
3. NOT USED.
4. DEVICE WIRING AND CABLING TO BE FED FROM BELOW.
5. ROUTE BRANCH CIRCUIT UP THROUGH SHAFT AND INTO WALL TO FEED RECEPTACLES ALONG GUARD BOOTH.
6. RELOCATE EXISTING SECURITY PANELS, ASSOCIATED CONDUIT, ASSOCIATED BRANCH CIRCUITING TO INDICATE LOCATION.
7. RUN CONDUIT OVERHEAD FROM ELECT CLOSET TO COMMAND AND CONTROL CENTER SECURITY CLOSET LOCATED ON THE FIRST FLOOR. RUN SEPARATE CONDUITS FOR DATA AND SECURITY.RUN TIGHT TO STRUCTURAL DECK, MIN. 9'-0" AFF. CORE THROUGH FLOORS AND WALLS AS REQUIRED.
8. RUN NEW CONDUIT FOR CONNECTION TO ELEVATOR CONTROL EQUIPMENT IN THE HOISTWAY DOWN TO THE BASEMENT LEVEL TO COMMAND AND CONTROL CENTER SECURITY CLOSET LOCATED ON THE FIRST FLOOR. RUN SEPARATE CONDUITS FOR DATA AND SECURITY. RUN TIGHT TO STRUCTURAL DECK, MIN. 9'-0" AFF. CORE THROUGH FLOORS AND WALLS AS REQUIRED.
9. RUN CONDUIT OVERHEAD FROM GUARD BOOTH TO COMMAND AND CONTROL CENTER SECURITY CLOSET LOCATED ON THE FIRST FLOOR. RUN SEPARATE CONDUITS FOR DATA AND SECURITY. RUN TIGHT TO STRUCTURAL DECK. CORE THROUGH FLOORS AND WALLS AS REQUIRED.
10. RUN (1) 2" CONDUIT ON BASEMENT LEVEL FROM NEW SECOND FLOOR ELECT CLOSET TO COMMAND AND CONTROL CENTER SECURITY CLOSET; PROVIDE PULL STRING. RUN (2) SEPARATE 2" CONDUITS FOR DATA AND SECURITY; PROVIDE PULL STRINGS.
11. RUN (1) 2"CONDUIT ON BASEMENT LEVEL FROM NEW ELECT CLOSET TO COMMAND AND CONTROL CENTER SECURITY CLOSET; PROVIDE PULL STRING. RUN (2) SEPARATE 2" CONDUITS FOR DATA AND SECURITY; PROVIDE PULL STRINGS.
12. RUN (1) 2" CONDUIT ON BASEMENT LEVEL FROM FORT ST GUARD BOOTH TO COMMAND AND CONTROL CENTER SECURITY CLOSET; PROVIDE PULL STRING. RUN (2) SEPARATE 2" CONDUITS FOR DATA AND SECURITY; PROVIDE PULL STRINGS.
13. RUN (1) 2" CONDUIT ON BASEMENT LEVEL FROM GUARD BOOTH TO COMMAND AND CONTROL CENTER SECURITY CLOSET; PROVIDE PULL STRING. RUN (2) SEPARATE 2" CONDUITS FOR DATA AND SECURITY; PROVIDE PULL STRINGS.
14. RUN (1) 2" CONDUIT OVERHEAD FROM USMS CLOSET TO ELECT CLOSET BELOW TO BASEMENT TO COMMAND AND CONTROL CENTER SECURITY CLOSET LOCATED ON THE FIRST FLOOR; PROVIDE PULL STRING. RUN (2) SEPARATE 2" CONDUITS FOR DATA AND SECURITY; PROVIDE PULL STRINGS. CORE THROUGH FLOORS AND WALLS AS REQUIRED.
15. CIRCUIT EXISTING DISCONNECT SWITCH FOR ELEVATOR 9 TO NEW 3 POLE 60A BREAKER IN PANELBOARD OSL10NE.CIRCUIT EXISTING ELEVATOR 9 CONTROLS TO 20A CIRCUIT AVALIBLE IN PANELBOARD OSL10NE.
16. SNOW OWL AERIAL GENERAL-PURPOSE SNOW SENSOR LOCATED ON 3RD FLOOR ROOF. REFER TO M103 FOR EXACT LOCATION. PROVIDE (1) 20A 120V CIRCUIT FROM NEAREST PANELBOARD FOR BOTH SNOW MELT AREA SNOW OWL SENSORS.
17. REPAIR EXISTING SERVICE OUTLET AND LIGHTING CIRCUIT IN SECONDARY ELEVATOR SPACE BELOW BY REPLACING WIRING TO SOURCE.
18. SNOWMELT CONTROL PANEL TO INCLUDE (2) 40A BREAKERS FED FROM MHGNE FOR JUNCTION BOXES AS INDICATED. CONTRACTOR TO FIELD VERIFY LOCATION WITH OWNER AND A/E PRIOR TO INSTALLATION
20. SNOWMELT CONTROL PANELS LOCATED IN BASEMENT, REFER TO E100A FOR LOCATIONS. COORDINATE WITH M101A AND M101C.
21. EXTEND EXISTING RECEPTACLES TO FACE OF FURRED OUT PARTITION.

SECOND FLOOR - OPTION 1 ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"



GRAPHIC SCALE: 1/4"=1'-0" 0 4" 8"

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

DESIGNER IDENTIFICATION
FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION
Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

STAMP OR SEAL
STATE OF MICHIGAN
ERIC MICHAEL GRAETTINGER
ENGINEER
No. 6201052104
LICENSED PROFESSIONAL ENGINEER

OWNER IDENTIFICATION
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SMB
CHECKED BY	EMG
FLOOR NO.	SECOND FLOOR
DISCIPLINE	ELECTRICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	E105

SHEET

2/14/2023 8:45:40 AM C:\REVIT LOCAL FILES\MI0029ZZ_E_B-10_C_abrown@pbanet.com.rvt

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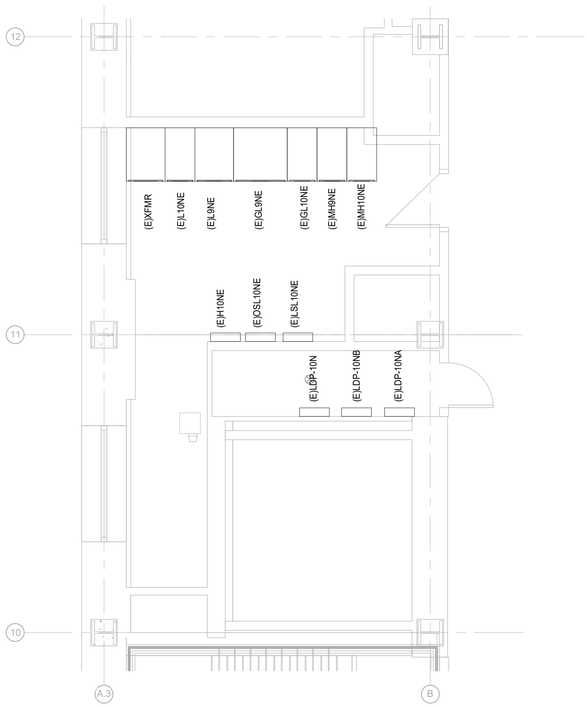
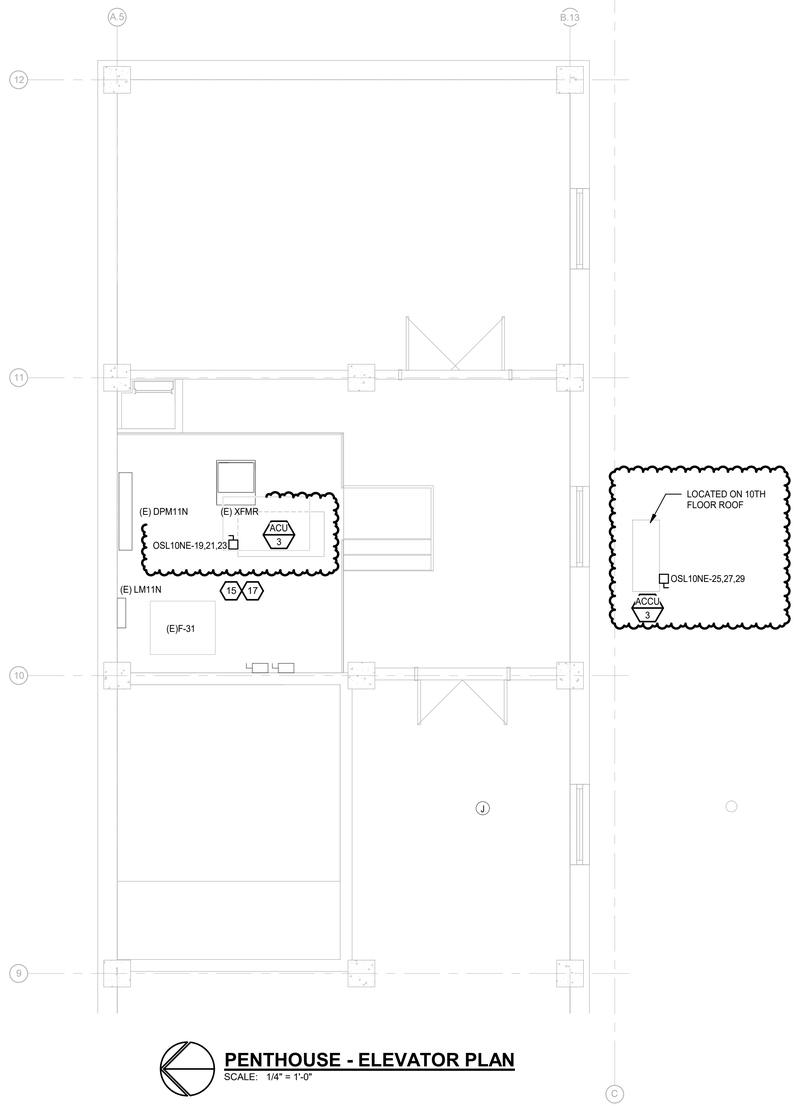


TENTH FLOOR - ELEVATOR PLAN

SCALE: 1/4" = 1'-0"



PENTHOUSE - ELEVATOR PLAN

SCALE: 1/4" = 1'-0"

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4 PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.

5 TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.

6 MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.

7 COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.

8 COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.

9 REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.

10 REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.

11 REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.

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3 NOT USED.

4 DEVICE WIRING AND CABLING TO BE FED FROM BELOW.

5 ROUTE BRANCH CIRCUIT UP THROUGH SHAFT AND INTO WALL TO FEED RECEPTACLES ALONG GUARD BOOTH.

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15 CIRCUIT EXISTING DISCONNECT SWITCH FOR ELEVATOR 9 TO NEW 3 POLE 60A BREAKER IN PANELBOARD OSL10NE.CIRCUIT EXISTING ELEVATOR 9 CONTROLS TO 20A CIRCUIT AVALIBLE IN PANELBOARD OSL10NE.

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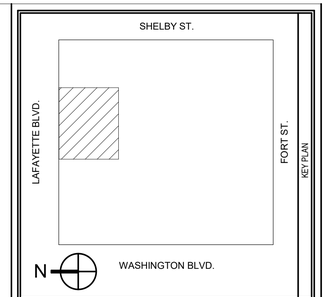

KEY PLAN

GRAPHIC SCALE

1/4"=1'-0" 0 4" 8"

REVISION BLOCK

MARK	DATE	DESCRIPTION
1	2/15/2023	100% REVISION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No: 2021-0206

STAMP OR SEAL

STATE OF MICHIGAN
ERIC MICHAEL GRAETTINGER
ENGINEER
No. 62010521 64
LICENSED PROFESSIONAL ENGINEER

OWNER IDENTIFICATION

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SMB
CHECKED BY	EMG
FLOOR NO.	TENTH & PENTHOUSE
DISCIPLINE	ELECTRICAL
PLAN TYPE	FLOOR PLAN
SHEET NUMBER AND FILENAME	E106

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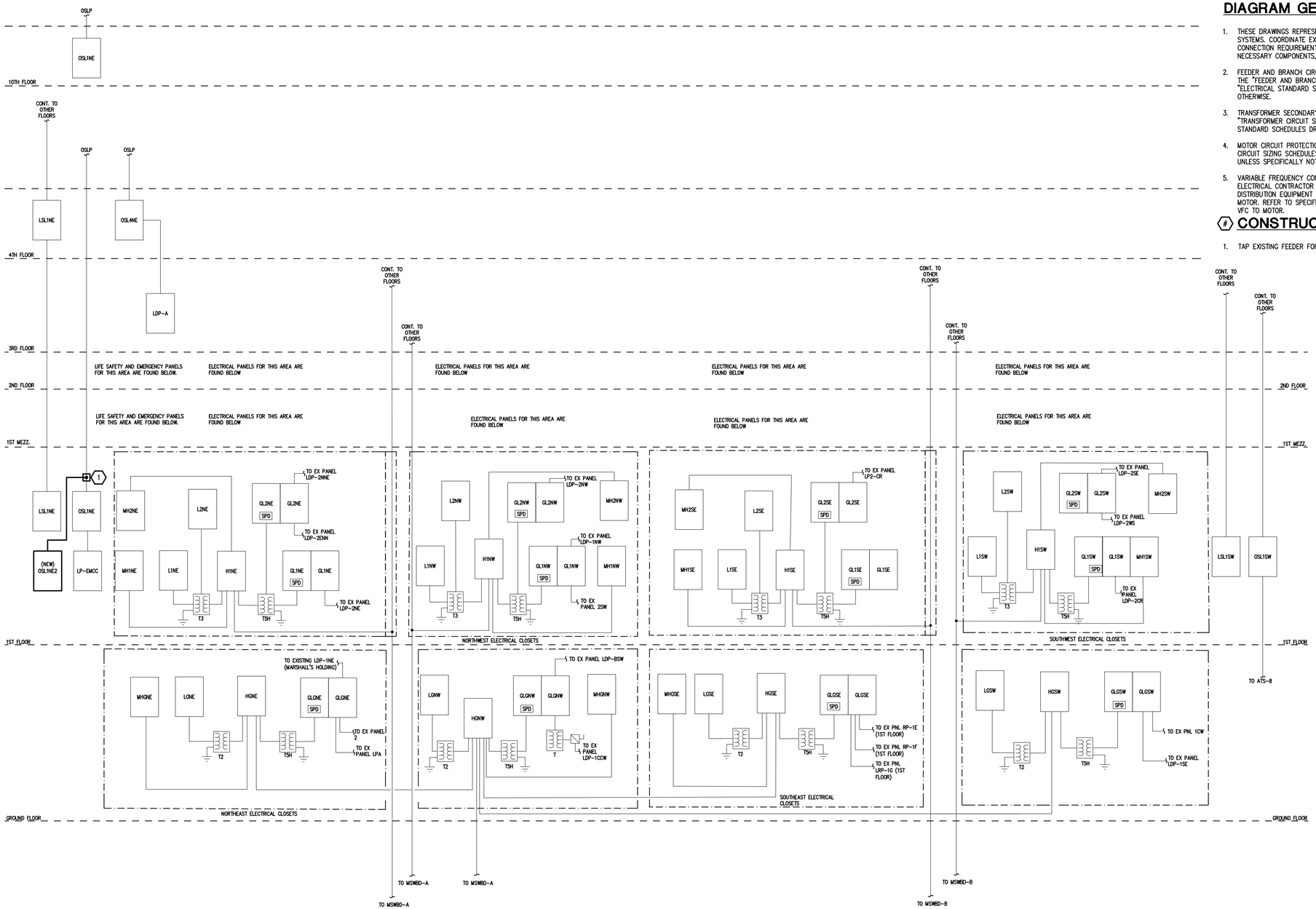

DIAGRAM GENERAL NOTES:

1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS. COORDINATE EXACT EQUIPMENT LOCATIONS, ELEVATIONS, AND FINAL CONNECTION REQUIREMENTS. PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
2. FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE "FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE-GENERAL PURPOSE" ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE.
3. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE "TRANSFORMER CIRCUIT SIZING SCHEDULE-GENERAL PURPOSE" ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE.
4. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH THE MOTOR CIRCUIT SIZING SCHEDULES ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE.
5. VARIABLE FREQUENCY CONTROLLERS (VFC) FURNISHED BY MECHANICAL TRADES. ELECTRICAL CONTRACTOR SHALL INSTALL VFC, PROVIDE POWER FEEDER FROM DISTRIBUTION EQUIPMENT TO VFC AND PROVIDE POWER FEEDER FROM VFC TO MOTOR. REFER TO SPECIFICATIONS FOR APPLICATION OF VFC POWER CABLE FROM VFC TO MOTOR.

(#) CONSTRUCTION KEY NOTES:

1. TAP EXISTING FEEDER FOR NEW 60A PANELBOARD.

KEY PLAN

GRAPHIC SCALE

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

STAMP OR SEAL

STATE OF MICHIGAN
ERIC MICHAEL GRAETTINGER
ENGINEER
No. 6201052104
LICENSED PROFESSIONAL ENGINEER

OWNER IDENTIFICATION

General Services Administration
Public Buildings Service
Great Lakes
Design and Construction,
Project Delivery Division
John C. Kluczynski Federal Building
230 South Dearborn St.
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SMB
CHECKED BY	EMG
FLOOR NO.	N/A
DISCIPLINE	ELECTRICAL
PLAN TYPE	DIAGRAMS
SHEET NUMBER AND FILENAME	E501

g:\2021\2021-0206-00\CAD\2021-0206-E5-DG.dwg, E501, 2/14/2023 8:57:19 AM, Alex Brown, Peter Basso Associates Inc.

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EXISTING PANELBOARD GLGNE

#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	VA	ØA	ØB	ØC	VA	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#
1		SPARE	EXIST	20		180			180	20	EXIST	REC– FIRE COMMAND RM	R	2
3	NC	EXTENDED EXISTING CKT	EXIST	20	500		680		180	20	EXIST	REC–FIRE COMMAND RM	R	4
5	NC	EXTENDED EXISTING CKT	EXIST	20	500			680	180	20	EXIST	REC–FIRE COMMAND RM	R	6
7	NC	EXTENDED EXISTING CKT	EXIST	20	500	680			180	20	EXIST	REC– FIRE COMMAND RM	R	8
9	NC	EXTENDED EXISTING CKT	EXIST	20	500		680		180	20	EXIST	REC– FIRE COMMAND RM	R	10
11	NC	EXTENDED EXISTING CKT	EXIST	20	500			500		20	EXIST	SPARE		12
13	NC	EXTENDED EXISTING CKT	EXIST	20	500	500				20	EXIST	SPARE		14
15	NC	EXTENDED EXISTING CKT	EXIST	20	500		500			20	EXIST	SPARE		16
17	NC	EXTENDED EXISTING CKT	EXIST	20	500			500		20	EXIST	SPARE		18
19		SPARE	EXIST	20		500			500	20	EXIST	MAIN PHONE CABINET	NC	20
21		SPARE	EXIST	20			500		500	20	EXIST	MAIN PHONE CABINET	NC	22
23		SPARE	EXIST	20				500	500	20	EXIST	EXTENDED EXISTING CKT	NC	24
25		SPARE	EXIST	20		500			500	20	EXIST	EXTENDED EXISTING CKT	NC	26
27		SPARE	EXIST	20			500		500	20	EXIST	EXTENDED EXISTING CKT	NC	28
29		SPARE	EXIST	20				500	500	20	EXIST	EXTENDED EXISTING CKT	NC	30
31	NC	EXTENDED EXISTING CKT	EXIST	20	500	500				20	EXIST	SPARE		32
33	NC	EXTENDED EXISTING CKT	EXIST	20	500		500			20	EXIST	SPARE		34
35	NC	EXTENDED EXISTING CKT	EXIST	20	500			500		20	EXIST	SPARE		36
37	NC	EXTENDED EXISTING CKT	EXIST	20	500	1000			500	20	EXIST	EXTENDED EXISTING CKT	NC	38
39	NC	EXTENDED EXISTING CKT	EXIST	20	500		1000		500	20	EXIST	EXTENDED EXISTING CKT	NC	40
41	NC	EXTENDED EXISTING CKT	EXIST	20	500			1000	500	20	EXIST	EXTENDED EXISTING CKT	NC	42
43	NC	EXTENDED EXISTING CKT	EXIST	20	500	1000			500	20	EXIST	EXTENDED EXISTING CKT	NC	44
						7860 ØA	7860 ØB	7680 ØC						

PANELBOARD INFORMATION
VOLTAGE: 208Y/120
BUS AMPACITY: 400A
MAIN TYPE: 400A MCB
MINIMUM A.I.C.: 22,000
MOUNTING: SURFACE

- [ ] FEED-THROUGH LUGS
- [ ] DOUBLE LUGS
- [ ] INTEGRAL SPD

PANELBOARD LOCATION

BRANCH CIRCUIT CONNECTED LOAD		DEMAND FACTOR	CALCULATED LOAD	FEEDER AND OVERCURRENT SIZING	
CONTINUOUS LOAD (C)		100%		125%	
ELECTRIC HEAT (E)		100%		125%	
NON-CONTINUOUS LOAD (NC)	12500	100%	12500	100%	12500
KITCHEN LOAD (K)		100%		100%	
RECEPTACLE BASE LOAD (R)	900	100%	900	100%	900
RECEPTACLE DEMAND LOAD (R)		50%		100%	
LIGHTING LOAD (L)		100%		125%	
ADDITIONAL TRACK LIGHTING LOAD				100%	
MOTORS, HIGHEST LOAD (MH)		125%		100%	
MOTORS, REMAINING LOAD (M)		100%		100%	
		TOTAL(KVA):	13.40		
		TOTAL (AMPS):	37	TOTAL (AMPS):	37

NOTE: DEMAND AND SIZING INFORMATION IS CALCULATED FROM CONNECTED LOAD

NOTES:

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EXISTING PANELBOARD MHGNE

#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	VA	ØA	ØB	ØC	VA	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#
1	M	EF–9	EXIST	20	1000	1500			500	15	EXIST	EUH–1	NC	2
3		SPARE	EXIST	20						20	EXIST	SPARE		4
5		SPARE	EXIST	20						20	EXIST	SPARE		6
7			EXIST			500			500	20	EXIST	FCU–6	NC	8
9		SPARE	EXIST	20						20	EXIST	SPARE		10
11			EXIST							20	EXIST	SPARE		12
13	M		EXIST		1990	4068			2078		NEW		M	14
15	M	OVERHEAD DOOR	EXIST	20	1990		4068		2078	15	NEW	SF–B–2	M	16
17	M		EXIST		1990			4068	2078		NEW		M	18
19	M		NEW		2078	2078					EXIST			20
21	M	SF–B–1	NEW	15	2078		2078			50	EXIST	SPARE		22
23	M		NEW		2078			2078			EXIST			24
25		SPARE	EXIST	20						20	EXIST	SPARE		26
27		SPARE	EXIST	20						20	EXIST	SPARE		28
29		SPARE	EXIST	20						20	EXIST	SPARE		30
31		SPARE	EXIST	20						20	EXIST	SPARE		32
33		SPARE	EXIST	20						20	EXIST	SPARE		34
35	E	HT–1 (SNOW MELT – ZONE 1)	GFEP	40	8700			8700		20	EXIST	SPARE		36
37	E	HT–2 (SNOW MELT – ZONE 2)	GFEP	40	8700	8700				20	EXIST	SPARE		38
39	E	HT–3 (SNOW MELT – ZONE 3)	GFEP	40	8700		8700			20	EXIST	SPARE		40
41	E	HT–4 (SNOW MELT – ZONE 4)	GFEP	40	8700			8700		20	EXIST	SPARE		42
						16846 ØA	14846 ØB	23546 ØC						

PANELBOARD INFORMATION
VOLTAGE: 480Y/277
BUS AMPACITY: 225A
MAIN TYPE: 250A MCB
MINIMUM A.I.C.: 35,000
MOUNTING: SURFACE

- [ ] FEED-THROUGH LUGS
- [ ] DOUBLE LUGS
- [ ] INTEGRAL SPD

PANELBOARD LOCATION

BRANCH CIRCUIT CONNECTED LOAD		DEMAND FACTOR	CALCULATED LOAD	FEEDER AND OVERCURRENT SIZING	
CONTINUOUS LOAD (C)		100%		125%	
ELECTRIC HEAT (E)	34800	100%	34800	125%	43500
NON-CONTINUOUS LOAD (NC)	1000	100%	1000	100%	1000
KITCHEN LOAD (K)		100%		100%	
RECEPTACLE BASE LOAD (R)		100%		100%	
RECEPTACLE DEMAND LOAD (R)		50%		100%	
LIGHTING LOAD (L)		100%		125%	
ADDITIONAL TRACK LIGHTING LOAD				100%	
MOTORS, HIGHEST LOAD (MH)		125%		100%	
MOTORS, REMAINING LOAD (M)	19438	100%	19438	100%	19438
		TOTAL(KVA):	55.24		
		TOTAL (AMPS):	66	TOTAL (AMPS):	77

NOTE: DEMAND AND SIZING INFORMATION IS CALCULATED FROM CONNECTED LOAD

NOTES:

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EXISTING PANELBOARD LGNE

#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	VA	ØA	ØB	ØC	VA	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#
1	NC	EXTENDED EXISTING CKT	EXIST	20	500	1000			500	20	EXIST	EXTENDED EXISTING CKT	NC	2
3	NC	EXTENDED EXISTING CKT	EXIST	20	500		1000		500	20	EXIST	EXTENDED EXISTING CKT	NC	4
5	NC	EXTENDED EXISTING CKT	EXIST	20	500			1000	500	20	EXIST	EXTENDED EXISTING CKT	NC	6
7	NC	EXTENDED EXISTING CKT	EXIST	20	500	1000			500	20	EXIST	EXTENDED EXISTING CKT	NC	8
9	NC	EXTENDED EXISTING CKT	EXIST	20	500		1000		500	20	EXIST	EXTENDED EXISTING CKT	NC	10
11	NC	EXTENDED EXISTING CKT	EXIST	20	500			1000	500	20	EXIST	EXTENDED EXISTING CKT	NC	12
13	NC	EXTENDED EXISTING CKT	EXIST	20	500	1000			500	20	EXIST	EXTENDED EXISTING CKT	NC	14
15	NC	EXTENDED EXISTING CKT	EXIST	20	500		1000		500	20	EXIST	EXTENDED EXISTING CKT	NC	16
17	NC	EXTENDED EXISTING CKT	EXIST	20	500			1000	500	20	EXIST	EXTENDED EXISTING CKT	NC	18
19	NC	EXTENDED EXISTING CKT	EXIST	20	500	1000			500	20	EXIST	EXTENDED EXISTING CKT	NC	20
21	NC	EXTENDED EXISTING CKT	EXIST	20	500		1000		500	20	EXIST	EXTENDED EXISTING CKT	NC	22
23		SPARE	EXIST	20				180	180	20	NEW	RCPT–B48–ELECTRICAL CLOSET	R	24
25	R	RCPT–B47–GUN CLOSET	NEW	20	180	658			478	15	NEW	EF–B–1	MH	26
27		SPARE	EXIST	20			478		478		NEW		MH	28
29	L	RCPT – BASEMENT	EXIST	20	1280			1644	364	15	NEW	EF–B–2	MH	30
31	M	EF–B–6	NEW	15	696	1060			364		NEW		MH	32
33	M	UH–B–1	NEW	15	16		16			20	EXIST	SPARE		34
35	M	UH–B–2	NEW	15	16			16		20	EXIST	SPARE		36
37	M	VF–B–1	NEW	15	528	528				20	EXIST	SPARE		38
39		SPARE	EXIST	20						20	EXIST	SPARE		40
41		SPARE	EXIST	20						20	EXIST	SPARE		42
43		SPARE	EXIST	20								SPACE		44
45		SPARE	EXIST	20								SPACE		46
47		SPARE	EXIST	20								SPACE		48
						6246 ØA	4494 ØB	4840 ØC						

PANELBOARD INFORMATION
VOLTAGE: 208Y/120
BUS AMPACITY: 100A
MAIN TYPE: 100A MCB
MINIMUM A.I.C.: 22,000
MOUNTING: SURFACE

- [ ] FEED-THROUGH LUGS
- [ ] DOUBLE LUGS
- [ ] INTEGRAL SPD

PANELBOARD LOCATION

BRANCH CIRCUIT CONNECTED LOAD		DEMAND FACTOR	CALCULATED LOAD	FEEDER AND OVERCURRENT SIZING	
CONTINUOUS LOAD (C)		100%		125%	
ELECTRIC HEAT (E)		100%		125%	
NON-CONTINUOUS LOAD (NC)	11000	100%	11000	100%	11000
KITCHEN LOAD (K)		100%		100%	
RECEPTACLE BASE LOAD (R)	360	100%	360	100%	360
RECEPTACLE DEMAND LOAD (R)		50%		100%	
LIGHTING LOAD (L)	1280	100%	1280	125%	1600
ADDITIONAL TRACK LIGHTING LOAD				100%	
MOTORS, HIGHEST LOAD (MH)	1684	125%	2105	100%	2105
MOTORS, REMAINING LOAD (M)	1256	100%	1256	100%	1256
		TOTAL(KVA):	16.00		
		TOTAL (AMPS):	44	TOTAL (AMPS):	45

NOTE: DEMAND AND SIZING INFORMATION IS CALCULATED FROM CONNECTED LOAD

NOTES:

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EXISTING PANELBOARD LGSE

#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	VA	ØA	ØB	ØC	VA	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#
1	NC	BASEMENT 47A	EXIST	50	500	2000			1500	40	EXIST	S.E. BASEMENT	NC	2
3	NC	EXTENDED EXISTING CKT	EXIST	30	500		2000		1500	25	EXIST	N.E. BASEMENT	NC	4
5	NC	EXTENDED EXISTING CKT	EXIST	20	500			1000	500	20	EXIST	EXTENDED EXISTING CKT	NC	6
7	NC	EXTENDED EXISTING CKT	EXIST	20	500	1000			500	20	EXIST	EXTENDED EXISTING CKT	NC	8
9	NC	EXTENDED EXISTING CKT	EXIST	20	500		1000		500	20	EXIST	EXTENDED EXISTING CKT	NC	10
11	NC	EXTENDED EXISTING CKT	EXIST	20	500			1000	500	20	EXIST	EXTENDED EXISTING CKT	NC	12
13	NC	EXTENDED EXISTING CKT	EXIST	20	500	1000			500	20	EXIST	EXTENDED EXISTING CKT	NC	14
15	NC	EXTENDED EXISTING CKT	EXIST	20	500		1000		500	20	EXIST	EXTENDED EXISTING CKT	NC	16
17	NC	EXTENDED EXISTING CKT	EXIST	20	500			1000	500	20	EXIST	EXTENDED EXISTING CKT	NC	18
19	NC	EXTENDED EXISTING CKT	EXIST	20	500	1000			500	20	EXIST	EXTENDED EXISTING CKT	NC	20
21	NC	EXTENDED EXISTING CKT	EXIST	20	500		1000		500	20	EXIST	EXTENDED EXISTING CKT	NC	22
23	NC	EXTENDED EXISTING CKT	EXIST	21	500			1000	500	20	EXIST	BASEMENT EF	MH	24
25	L	LTG – 183 – GUARD BOOTH	EXIST	20	60	600			540	20	NEW	RCPT–183–GUARD BOOTH	R	26
27		SPARE	EXIST	20						20	EXIST	SPARE		28
29		SPARE	EXIST	20						20	EXIST	SPARE		30
31		SPARE	EXIST	20						20	EXIST	SPARE		32
33		SPARE	EXIST	20						20	EXIST	SPARE		34
35		SPACE										SPACE		36
37		SPACE										SPACE		38
39		SPACE										SPACE		40
41		SPACE										SPACE		42
						5600 ØA	5000 ØB	4000 ØC						

PANELBOARD INFORMATION
VOLTAGE: 208Y/120
BUS AMPACITY: 100A
MAIN TYPE: 100A MCB
MINIMUM A.I.C.: 22,000
MOUNTING: SURFACE

- [ ] FEED-THROUGH LUGS
- [ ] DOUBLE LUGS
- [ ] INTEGRAL SPD

PANELBOARD LOCATION

BRANCH CIRCUIT CONNECTED LOAD		DEMAND FACTOR	CALCULATED LOAD	FEEDER AND OVERCURRENT SIZING	
CONTINUOUS LOAD (C)		100%		125%	
ELECTRIC HEAT (E)		100%		125%	
NON-CONTINUOUS LOAD (NC)	13500	100%	13500	100%	13500
KITCHEN LOAD (K)		100%		100%	
RECEPTACLE BASE LOAD (R)	540	100%	540	100%	540
RECEPTACLE DEMAND LOAD (R)		50%		100%	
LIGHTING LOAD (L)	60	100%	60	125%	75
ADDITIONAL TRACK LIGHTING LOAD				100%	
MOTORS, HIGHEST LOAD (MH)	500	125%	625	100%	625
MOTORS, REMAINING LOAD (M)		100%		100%	
		TOTAL(KVA):	14.73		
		TOTAL (AMPS):	41	TOTAL (AMPS):	41

NOTE: DEMAND AND SIZING INFORMATION IS CALCULATED FROM CONNECTED LOAD

NOTES:

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EXISTING PANELBOARD MH1SE

#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	VA	ØA	ØB	ØC	VA	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#
1	NC		EXIST		3000	6000			3000		EXIST		NC	2
3	NC	AHU–1–1	EXIST	20	3000		6000		3000	20	EXIST	HVAC	NC	4
5	NC		EXIST		3000			6000	3000		EXIST		NC	6
7	MH	BCU–B–1	EXIST	20	1357	1857			500	20	EXIST	EXTENDED EXISTING CKT	NC	8
9		SPARE	EXIST	20			500		500	20	EXIST	EXTENDED EXISTING CKT	NC	10
11		SPARE	EXIST	20						20	EXIST	SPARE		12
13		SPARE	EXIST	20						20	EXIST	SPARE		14
15		SPARE	EXIST	20						20	EXIST	SPARE		16
17		SPARE	EXIST	20						20	EXIST	SPARE		18
19		SPARE	EXIST	20						20	EXIST	SPARE		20
21		SPARE	EXIST	20						20	EXIST	SPARE		22
23		SPARE	EXIST	20						20	EXIST	SPARE		24
25		SPARE	EXIST	20						20	EXIST	SPARE		26
27		SPARE	EXIST	20						20	EXIST	SPARE		28
29		SPARE	EXIST	20						20	EXIST	SPARE		30
31		SPARE	EXIST	20						20	EXIST	SPARE		32
33		SPACE	EXIST								EXIST	SPACE		34
35		SPACE	EXIST								EXIST	SPACE		36
37		SPACE	EXIST								EXIST	SPACE		38
39		SPACE	EXIST								EXIST	SPACE		40
41		SPACE	EXIST								EXIST	SPACE		42
43		SPACE	EXIST								EXIST	SPACE		44
						10857 ØA	10000 ØB	9500 ØC						

PANELBOARD INFORMATION
VOLTAGE: 480Y/277
BUS AMPACITY: 100A
MAIN TYPE: 100A MCB
MINIMUM A.I.C.: 42,000
MOUNTING: SURFACE

- [ ] FEED-THROUGH LUGS
- [ ] DOUBLE LUGS
- [ ] INTEGRAL SPD

PANELBOARD LOCATION

BRANCH CIRCUIT CONNECTED LOAD		DEMAND FACTOR	CALCULATED LOAD	FEEDER AND OVERCURRENT SIZING	
CONTINUOUS LOAD (C)		100%		125%	
ELECTRIC HEAT (E)		100%		125%	
NON-CONTINUOUS LOAD (NC)	19000	100%	19000	100%	19000
KITCHEN LOAD (K)		100%		100%	
RECEPTACLE BASE LOAD (R)		100%		100%	
RECEPTACLE DEMAND LOAD (R)		50%		100%	
LIGHTING LOAD (L)		100%		125%	
ADDITIONAL TRACK LIGHTING LOAD				100%	
MOTORS, HIGHEST LOAD (MH)	1357	125%	1696	100%	1696
MOTORS, REMAINING LOAD (M)		100%		100%	
		TOTAL(KVA):	20.70		
		TOTAL (AMPS):	25	TOTAL (AMPS):	25

NOTE: DEMAND AND SIZING INFORMATION IS CALCULATED FROM CONNECTED LOAD

NOTES:

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EXISTING PANELBOARD L2SE

#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	VA	ØA	ØB	ØC	VA	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#
1	L	LIGHTING 228	EXIST	20	500	1000			500	20	EXIST	LIGHTING 228	L	2
3	L	LIGHTING 228	EXIST	20	500		1000		500	20	EXIST	NIGHT LIGHTS 228	L	4
5	L	LIGHTING 229	EXIST	20	500			1000	500	20	EXIST	LIGHTING 228	NC	6
7	L	LIGHTING 230	EXIST	20	500	1000			500	20	EXIST	LIGHTING 228	NC	8
9	L	LIGHTING 231	EXIST	20	500		650		150	20	EXIST	LIGHTING 228	L	10
11	L	LIGHTING 232	EXIST	20	500			1000	500	20	EXIST	LIGHTING 228	NC	12
13	L	LIGHTING 238–239	EXIST	20	500	1000			500	20	EXIST	LIGHTING 237	NC	14
15	L	LIGHITNG 219	EXIST	20	500		1000		500	20	EXIST	LIGHTING 237	NC	16
17	L	LIGHTING	EXIST	20	500			1000	500	20	EXIST	LIGHTING 240	NC	18
19	L	LIGHTING CORR 245	EXIST	20	500	1000			500	20	EXIST	LIGHTING 236, CORR 219	NC	20
21	L	LIGHTING CORR 240	EXIST	20	500		500			20	EXIST	SPARE		22
23	L	LIGHTING CORR 240	EXIST	20	500			500		20	EXIST	SPARE		24
25	L	LIGHTING CORR 240	EXIST	20	500	500				20	EXIST	SPARE		26
27	L	PENDANT LIGHTING	EXIST	20	500		500			20	EXIST	SPARE		28
29	L	PENDANT LIGHTING	EXIST	20	500			500		20	EXIST	SPARE		30
31	NC	TEMPERATURE CONTROL PANEL	EXIST	20	200	200				20	EXIST	SPARE		32
33	MH	BCU–B–1 CONDENSATE PUMP	EXIST	20	500		500			20	EXIST	SPARE		34
35		SPARE	EXIST	20						20	EXIST	SPARE		36
37		SPARE	EXIST	20						20	EXIST	SPARE		38
39		SPARE	EXIST	20						20	EXIST	SPARE		40
41		SPARE	EXIST	20						20	EXIST	SPARE		42
						5700 ØA	4150 ØB	4000 ØC						

PANELBOARD INFORMATION
VOLTAGE: 208Y/120
BUS AMPACITY: 100A
MAIN TYPE: 100A MCB
MINIMUM A.I.C.: 22,000
MOUNTING: SURFACE

- [ ] FEED-THROUGH LUGS
- [ ] DOUBLE LUGS
- [ ] INTEGRAL SPD

PANELBOARD LOCATION

BRANCH CIRCUIT CONNECTED LOAD		DEMAND FACTOR	CALCULATED LOAD	FEEDER AND OVERCURRENT SIZING	
CONTINUOUS LOAD (C)		100%		125%	
ELECTRIC HEAT (E)		100%		125%	
NON-CONTINUOUS LOAD (NC)	4700	100%	4700	100%	4700
KITCHEN LOAD (K)		100%		100%	
RECEPTACLE BASE LOAD (R)		100%		100%	
RECEPTACLE DEMAND LOAD (R)		50%		100%	
LIGHTING LOAD (L)	8650	100%	8650	125%	10813
ADDITIONAL TRACK LIGHTING LOAD				100%	
MOTORS, HIGHEST LOAD (MH)	500	125%	625	100%	625
MOTORS, REMAINING LOAD (M)		100%		100%	
		TOTAL(KVA):	13.98		
		TOTAL (AMPS):	39	TOTAL (AMPS):	45

NOTE: DEMAND AND SIZING INFORMATION IS CALCULATED FROM CONNECTED LOAD

NOTES:

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EXISTING PANELBOARD L1NW

#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	VA	ØA	ØB	ØC	VA	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#
1	NC	EXTENDED EXISTING CKT	EXIST	20	500	1000			500	20	EXIST	N0120–N0125	NC	2
3	NC	EXTENDED EXISTING CKT	EXIST	20	500		1000		500	20	EXIST	EXTENDED EXISTING CKT	NC	4
5	NC	EXTENDED EXISTING CKT	EXIST	20	500			1000	500	20	EXIST	EXTENDED EXISTING CKT	NC	6
7	NC	EXTENDED EXISTING CKT	EXIST	20	500	1000			500	20	EXIST	EXTENDED EXISTING CKT	NC	8
9	NC	EXTENDED EXISTING CKT	EXIST	20	500		1000		500	20	EXIST	EXTENDED EXISTING CKT	NC	10
11	NC	EXTENDED EXISTING CKT	EXIST	20	500			1000	500	20	EXIST	EXTENDED EXISTING CKT	NC	12
13	NC	EXTENDED EXISTING CKT	EXIST	20	500	1000			500	20	EXIST	EXTENDED EXISTING CKT	NC	14
15	NC	EXTENDED EXISTING CKT	EXIST	20	500		1000		500	20	EXIST	EXTENDED EXISTING CKT	NC	16
17	NC	EXTENDED EXISTING CKT	EXIST	20	500			1000	500	20	EXIST	EXTENDED EXISTING CKT	NC	18
19	NC	EXTENDED EXISTING CKT	EXIST	20	500	1000			500	20	EXIST	EXTENDED EXISTING CKT	NC	20
21	NC	EXTENDED EXISTING CKT	EXIST	20	500		1000		500	20	EXIST	EXTENDED EXISTING CKT	NC	22
23		SPARE	EXIST	20						20	EXIST	SPARE		24
25	NC	TIMER RM 144 BASEBOARD HEAT	EXIST	20	500	680			180	20	NEW	FUTURE LOAD–191–GUN LOCKER	R	26
27	NC	SPARE RM 144 BASEBOARD	EXIST	20	500		860		360	20	NEW	RCPT–208–BREAK ROOM	R	28
29	NC	SPARE RM 144 HEATER	EXIST	20	500			1500	1000	20	NEW	RCPT–208–BREAK ROOM	R	30
31	R	XRAY – 191 – SECURE ALCOVE	NEW	20	1200	2280			1080	20	NEW	RCPT–290–CONFERENCE	R	32
33	R	RCPT–290–CONFERENCE	NEW	20	1000		2000		1000	20	NEW	RCPT–290–CONFERENCE	R	34
35		SPARE	EXIST	20				1000	1000	20	NEW	DISPOSAL – 290–CONFERENCE	R	36
37	R	RCPT–208–BREAK ROOM	NEW	20	1000	1360			360	20	NEW	RCPT–290–CONFERENCE	R	38
39	R	RCPT–208–BREAK ROOM	NEW	20	1000		2000		1000	20	NEW	RCPT–208–BREAK ROOM	R	40
41	R	RCPT–290–CONFERENCE	NEW	20	1000			1800	800	20	NEW	FRIDGE–290–CONFERENCE	R	42
						9320 ØA	8860 ØB	7300 ØC						

PANELBOARD INFORMATION
VOLTAGE: 208Y/120
BUS AMPACITY: 100A
MAIN TYPE: 100A MCB
MINIMUM A.I.C.: 22,000
MOUNTING: SURFACE

- [ ] FEED-THROUGH LUGS
- [ ] DOUBLE LUGS
- [ ] INTEGRAL SPD

PANELBOARD LOCATION

BRANCH CIRCUIT CONNECTED LOAD		DEMAND FACTOR	CALCULATED LOAD	FEEDER AND OVERCURRENT SIZING	
CONTINUOUS LOAD (C)		100%		125%	
ELECTRIC HEAT (E)		100%		125%	
NON-CONTINUOUS LOAD (NC)	12500	100%	12500	100%	12500
KITCHEN LOAD (K)		100%		100%	
RECEPTACLE BASE LOAD (R)	10000	100%	10000	100%	10000
RECEPTACLE DEMAND LOAD (R)	2980	50%	1490	100%	1490
LIGHTING LOAD (L)		100%		125%	
ADDITIONAL TRACK LIGHTING LOAD				100%	
MOTORS, HIGHEST LOAD (MH)		125%		100%	
MOTORS, REMAINING LOAD (M)		100%		100%	
		TOTAL(KVA):	23.99		
		TOTAL (AMPS):	67	TOTAL (AMPS):	67

NOTE: DEMAND AND SIZING INFORMATION IS CALCULATED FROM CONNECTED LOAD

NOTES:

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EXISTING PANELBOARD L2NW

#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	VA	ØA	ØB	ØC	VA	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#
1	L	CORRIDOR LIGHTING	EXIST	20	500	1000			500	20	EXIST	CORRDIOR LIGHTING	L	2
3	L	CORRIDOR LIGHTING	EXIST	20	500		1000		500	20	EXIST	CORRDIOR LIGHTING	L	4
5	L	LIGHTING 211	EXIST	20	500			1000	500	20	EXIST	LIGHTING 211	L	6
7	L	LIGHTING 211	EXIST	20	500	1000			500	20	EXIST	LIGHTING 211	L	8
9	L	LIGHTING 211	EXIST	20	500		1000		500	20	EXIST	LIGHTING 230A	L	10
11	L	LIGHTING 211	EXIST	20	500			1000	500	20	EXIST	LIGHTING 230A	L	12
13	L	LIGHTING 211	EXIST	20	500	1000			500	20	EXIST	LIGHTING 230A	L	14
15	L	LIGHTING 211	EXIST	20	500		1000		500	20	EXIST	LIGHITNG 230A	L	16
17	L	LIGHTING 211	EXIST	20	500			1000	500	20	EXIST	LIGHTING 230A WEST	L	18
19	L	LIGHTING 211	EXIST	20	500	1000			500	20	EXIST	LIGHTING 230A WEST	L	20
21	L	LIGHTING 211 NORTH	EXIST	20	500		1000		500	20	EXIST	LIGHTING 230A WEST	L	22
23	L	LIGHTING 211 NORTH	EXIST	20	500			1000	500	20	EXIST	LIGHTING 230A NORTH	L	24
25	L	LIGHTING 211 NORTH	EXIST	20	500	1000			500	20	EXIST	LIGHTING 230A CENTER	L	26
27	L	LIGHTING 211 NORTH	EXIST	20	500		1000		500	20	EXIST	LIGHTING 230A CENTER	L	28
29	L	LIGHTING 245	EXIST	20	500			1000	500	20	EXIST	LIGHTING 211 CENTER	L	30
31	L	LIGHTING BATHROOM	EXIST	20	500	1000			500	20	EXIST	LIGHTING 211 SOUTH	L	32
33		SPARE	EXIST	20			500		500	20	EXIST	LIGHTING 211	L	34
35	L	CORRIDOR LIGHTING	EXIST	20	500			1000	500	20	EXIST	CORRDIOR LIGHTING	L	36
37		SPARE	EXIST	20		500			500	20	EXIST	EXISTING LIGHTING	L	38
39		SPARE	EXIST	20			1115		1115	20	EXIST	LTG – RMS 201, 205, 208, 290	L	40
41		SPARE	EXIST	20						20	EXIST	SPARE		42
						6500 ØA	6615 ØB	6000 ØC						

PANELBOARD INFORMATION
VOLTAGE: 208Y/120
BUS AMPACITY: 100A
MAIN TYPE: 100A MCB
MINIMUM A.I.C.: 22,000
MOUNTING: SURFACE

- [ ] FEED-THROUGH LUGS
- [ ] DOUBLE LUGS
- [ ] INTEGRAL SPD

PANELBOARD LOCATION

BRANCH CIRCUIT CONNECTED LOAD		DEMAND FACTOR	CALCULATED LOAD	FEEDER AND OVERCURRENT SIZING	
CONTINUOUS LOAD (C)		100%		125%	
ELECTRIC HEAT (E)		100%		125%	
NON-CONTINUOUS LOAD (NC)		100%		100%	
KITCHEN LOAD (K)		100%		100%	
RECEPTACLE BASE LOAD (R)		100%		100%	
RECEPTACLE DEMAND LOAD (R)		50%		100%	
LIGHTING LOAD (L)	19115	100%	19115	125%	23894
ADDITIONAL TRACK LIGHTING LOAD				100%	
MOTORS, HIGHEST LOAD (MH)		125%		100%	
MOTORS, REMAINING LOAD (M)		100%		100%	
		TOTAL(KVA):	19.12		
		TOTAL (AMPS):	53	TOTAL (AMPS):	66

NOTE: DEMAND AND SIZING INFORMATION IS CALCULATED FROM CONNECTED LOAD

NOTES:

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EXISTING PANELBOARD L2NW

#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	VA	ØA	ØB	ØC	VA	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#
1	L	CORRIDOR LIGHTING	EXIST	20	500	1000			500	20	EXIST	CORRDIOR LIGHTING	L	2
3	L	CORRIDOR LIGHTING	EXIST	20	500		1000		500	20	EXIST	CORRDIOR LIGHTING	L	4
5	L	LIGHTING 211	EXIST	20	500			1000	500	20	EXIST	LIGHTING 211	L	6
7	L	LIGHTING 211	EXIST	20	500	1000			500	20	EXIST	LIGHTING 211	L	8
9	L	LIGHTING 211	EXIST	20	500		1000		500	20	EXIST	LIGHTING 230A	L	10
11	L	LIGHTING 211	EXIST	20	500			1000	500	20	EXIST	LIGHTING 230A	L	12
13	L	LIGHTING 211	EXIST	20	500	1000			500	20	EXIST	LIGHTING 230A	L	14
15	L	LIGHTING 211	EXIST	20	500		1000		500	20	EXIST	LIGHITNG 230A	L	16
17	L	LIGHTING 211	EXIST	20	500			1000	500	20	EXIST	LIGHTING 230A WEST	L	18
19	L	LIGHTING 211	EXIST	20	500	1000			500	20	EXIST	LIGHTING 230A WEST	L	20
21	L	LIGHTING 211 NORTH	EXIST	20	500		1000		500	20	EXIST	LIGHTING 230A WEST	L	22
23	L	LIGHTING 211 NORTH	EXIST	20	500			1000	500	20	EXIST	LIGHTING 230A NORTH	L	24
25	L	LIGHTING 211 NORTH	EXIST	20	500	1000			500	20	EXIST	LIGHTING 230A CENTER	L	26
27	L	LIGHTING 211 NORTH	EXIST	20	500		1000		500	20	EXIST	LIGHTING 230A CENTER	L	28
29	L	LIGHTING 245	EXIST	20	500			1000	500	20	EXIST	LIGHTING 211 CENTER	L	30
31	L	LIGHTING BATHROOM	EXIST	20	500	1000			500	20	EXIST	LIGHTING 211 SOUTH	L	32
33		SPARE	EXIST	20			500		500	20	EXIST	LIGHTING 211	L	34
35	L	CORRIDOR LIGHTING	EXIST	20	500			1000	500	20	EXIST	CORRDIOR LIGHTING	L	36
37		SPARE	EXIST	20		500			500	20	EXIST	EXISTING LIGHTING	L	38
39		SPARE	EXIST	20			1115		1115	20	EXIST	LTG – RMS 201, 205, 208, 290	L	40
41		SPARE	EXIST	20						20	EXIST	SPARE		42
						6500 ØA	6615 ØB	6000 ØC						

PANELBOARD INFORMATION
VOLTAGE: 208Y/120
BUS AMPACITY: 100A
MAIN TYPE: 100A MCB
MINIMUM A.I.C.: 22,000
MOUNTING: SURFACE

- [ ] FEED-THROUGH LUGS
- [ ] DOUBLE LUGS
- [ ] INTEGRAL SPD

PANELBOARD LOCATION

BRANCH CIRCUIT CONNECTED LOAD		DEMAND FACTOR	CALCULATED LOAD	FEEDER AND OVERCURRENT SIZING	
CONTINUOUS LOAD (C)		100%		125%	
ELECTRIC HEAT (E)		100%		125%	
NON-CONTINUOUS LOAD (NC)		100%		100%	
KITCHEN LOAD (K)		100%		100%	
RECEPTACLE BASE LOAD (R)		100%		100%	
RECEPTACLE DEMAND LOAD (R)		50%		100%	
LIGHTING LOAD (L)	19115	100%	19115	125%	23894
ADDITIONAL TRACK LIGHTING LOAD				100%	
MOTORS, HIGHEST LOAD (MH)		125%		100%	
MOTORS, REMAINING LOAD (M)		100%		100%	
		TOTAL(KVA):	19.12		
		TOTAL (AMPS):	53	TOTAL (AMPS):	66

NOTE: DEMAND AND SIZING INFORMATION IS CALCULATED FROM CONNECTED LOAD

NOTES:

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KEY PLAN

GRAPHIC SCALE

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

STAMP OR SEAL

STATE OF MICHIGAN · ERIC MICHAEL GRAETTINGER · ENGINEER · No. 6201052164 · LICENSED PROFESSIONAL ENGINEER

OWNER IDENTIFICATION

General Services Administration
Public Buildings Service
Great Lakes
Design and Construction,
Project Delivery Division
John C. Kluczynski Federal Building
230 South Dearborn St.
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SMB
CHECKED BY	EMG
FLOOR NO.	N/A
DISCIPLINE	ELECTRICAL
PLAN TYPE	SCHEDULES
SHEET NUMBER AND FILENAME	E502

g:\2021\2021-0206-00\CAD\2021-0206-E5-SH.dwg, E502, 2/14/2023 8:58:01 AM, Alex Brown, Peter Basso Associates Inc.

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EXISTING PANELBOARD GL2NW

#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	VA	ØA	ØB	ØC	VA	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#
1		SURGE	EXIST	30		360			360	20	EXIST	RECEPTS JUDGE KEITH	R	2
3		SURGE	EXIST	30			360		360	20	EXIST	RECEPTS JUDGE KEITH	R	4
5		SURGE	EXIST	30				360	360	20	EXIST	RECEPTS JUDGE KEITH	R	6
7	R	RECEPTS BATHROOM	EXIST	20	360	1360			1000	20	EXIST	COPIER 342	R	8
9	R	RECEPTS JUDGE KEITH	EXIST	20	360		1360		1000	20	EXIST	COPIER 342	R	10
11	R	RECEPT EXISTING	EXIST	20	360			860	500	20	EXIST	EXTENDED EXISTING CIRCUIT	NC	12
13	R	RECEPT LAW CLERK	EXIST	20	360	860			500	20	EXIST	EXTENDED EXISTING CIRCUIT	NC	14
15	R	DEDICATED RECEPT NW CLOSET	EXIST	20	360		360			20	EXIST	SPARE		16
17		SPARE	EXIST	20						20	EXIST	SPARE		18
19	NC	EXTENDED EXISTING CIRCUIT	EXIST	20	500	500				20	EXIST	SPARE		20
21		SPARE	EXIST	20						20	EXIST	SPARE		22
23		SPARE	EXIST	20						20	EXIST	SPARE		24
25		SPARE	EXIST	20						20	EXIST	SPARE		26
27		SPARE	EXIST	20						20	EXIST	SPARE		28
29		SPARE	EXIST	20						20	EXIST	SPARE		30
31		SPARE	EXIST	20						20	EXIST	SPARE		32
33		SPARE	EXIST	20						20	EXIST	SPARE		34
35		SPARE	EXIST	20						20	EXIST	SPARE		36
37		SPARE	EXIST	20						20	EXIST	SPARE		38
39		SPARE	EXIST	20						20	EXIST	SPARE		40
41		SPARE	EXIST	20						20	EXIST	SPARE		42
43		SPARE	EXIST	20						20	EXIST	SPARE		44
						3080 ØA	2080 ØB	1220 ØC						

PANELBOARD INFORMATION
VOLTAGE: 208Y/120
BUS AMPACITY: 225A
MAIN TYPE: 200A MCB
MINIMUM A.I.C.: 22,000
MOUNTING: SURFACE

☐ FEED-THROUGH LUGS
☐ DOUBLE LUGS
☐ INTEGRAL SPD

PANELBOARD LOCATION

BRANCH CIRCUIT CONNECTED LOAD		DEMAND FACTOR	CALCULATED LOAD	FEEDER AND OVERCURRENT SIZING	
CONTINUOUS LOAD (C)		100%		125%	
ELECTRIC HEAT (E)		100%		125%	
NON-CONTINUOUS LOAD (NC)	1500	100%	1500	100%	1500
KITCHEN LOAD (K)		100%		100%	
RECEPTACLE BASE LOAD (R)	4880	100%	4880	100%	4880
RECEPTACLE DEMAND LOAD (R)		50%		100%	
LIGHTING LOAD (L)		100%		125%	
ADDITIONAL TRACK LIGHTING LOAD				100%	
MOTORS, HIGHEST LOAD (MH)		125%		100%	
MOTORS, REMAINING LOAD (M)		100%		100%	
		TOTAL(KVA):	6.38		
		TOTAL (AMPS):	18	TOTAL (AMPS):	18

NOTES:

NOTE: DEMAND AND SIZING INFORMATION IS CALCULATED FROM CONNECTED LOAD

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EXISTING PANELBOARD L1NE

#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	VA	ØA	ØB	ØC	VA	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#
1	NC	EXTENDED EXISTING CKT	EXIST	20	500	1000			500	20	EXIST	AUTO DOORS – 185 – ENTRY VESTIBULE	NC	2
3	NC	EXTENDED EXISTING CKT	EXIST	20	500		1000		500	20	EXIST	EXTENDED EXISTING CKT	NC	4
5	NC	EXTENDED EXISTING CKT	EXIST	20	500			1000	500	20	EXIST	EXTENDED EXISTING CKT	NC	6
7	NC	EXTENDED EXISTING CKT	EXIST	20	500	1000			500	20	EXIST	EXTENDED EXISTING CKT	NC	8
9	NC	EXTENDED EXISTING CKT	EXIST	20	500		650		150	20	EXIST	EXTERIOR LIGHTED SIGN	L	10
11	NC	EXTENDED EXISTING CKT	EXIST	20	500			1000	500	20	EXIST	EXTENDED EXISTING CKT	NC	12
13	NC	EXTENDED EXISTING CKT	EXIST	20	500	1000			500	20	EXIST	EXTENDED EXISTING CKT	NC	14
15	NC	EXTENDED EXISTING CKT	EXIST	20	500		1000		500	20	EXIST	EXTENDED EXISTING CKT	NC	16
17	R	RCPT–187–LIFT CORRDIOR	NEW	20	1000			1500	500	20	EXIST	EXTENDED EXISTING CKT	NC	18
19	NC	EXTENDED EXISTING CKT	EXIST	20	500	1000			500	20	EXIST	EXTENDED EXISTING CKT	NC	20
21	NC	EXTENDED EXISTING CKT	EXIST	20	500		1000		500	20	EXIST	EXTENDED EXISTING CKT	NC	22
23	NC	EXTENDED EXISTING CKT	NEW	20	500			1000	500	20	NEW	EXTENDED EXISTING CKT	NC	24
25	NC	EXTENDED EXISTING CKT	EXIST	20	500	1000			500	20	NEW	EXTENDED EXISTING CKT	NC	26
27	NC	EXTENDED EXISTING CKT	EXIST	20	500		1000		500	20	NEW	EXTENDED EXISTING CKT	NC	28
29	R	RCPT–190–GUARD BOOTH	NEW	20	900			2076	1176	20	NEW	CUH–1–1	NC	30
31	L	LTG – FIRST FLOOR LAFAYETTE	EXIST	20	430	930			500	20	NEW	EXTENDED EXISTING CKT	NC	32
33	L	HAND RAIL LIGHTING – LAFAYETTE	EXIST	20	150		650		500	20	NEW	EXTENDED EXISTING CKT	NC	34
35	L	EXTERIOR LIGHTED SIGN	NEW	20	500			1000	500	20	NEW	EXTENDED EXISTING CKT	NC	36
37	NC	EXTENDED EXISTING CKT	NEW	20	500	1000			500	20	NEW	BCU–1–1 CONDENSATE PUMP	MH	38
39	NC	EXTENDED EXISTING CKT	NEW	20	500		1000		500	20	NEW	EXTENDED EXISTING CKT	NC	40
41	NC	EXTENDED EXISTING CKT	NEW	20	500			1000	500	20	NEW	SPARE	NC	42
						7930 ØA	6300 ØB	8576 ØC						

PANELBOARD INFORMATION
VOLTAGE: 208Y/120
BUS AMPACITY: 100A
MAIN TYPE: 100A MCB
MINIMUM A.I.C.: 22,000
MOUNTING: SURFACE

☐ FEED-THROUGH LUGS
☐ DOUBLE LUGS
☐ INTEGRAL SPD

PANELBOARD LOCATION

BRANCH CIRCUIT CONNECTED LOAD		DEMAND FACTOR	CALCULATED LOAD	FEEDER AND OVERCURRENT SIZING	
CONTINUOUS LOAD (C)		100%		125%	
ELECTRIC HEAT (E)		100%		125%	
NON-CONTINUOUS LOAD (NC)	19176	100%	19176	100%	19176
KITCHEN LOAD (K)		100%		100%	
RECEPTACLE BASE LOAD (R)	1900	100%	1900	100%	1900
RECEPTACLE DEMAND LOAD (R)		50%		100%	
LIGHTING LOAD (L)	1230	100%	1230	125%	1538
ADDITIONAL TRACK LIGHTING LOAD				100%	
MOTORS, HIGHEST LOAD (MH)	500	125%	625	100%	625
MOTORS, REMAINING LOAD (M)		100%		100%	
		TOTAL(KVA):	22.93		
		TOTAL (AMPS):	64	TOTAL (AMPS):	65

NOTES:

NOTE: DEMAND AND SIZING INFORMATION IS CALCULATED FROM CONNECTED LOAD

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EXISTING PANELBOARD L2NE

#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	VA	ØA	ØB	ØC	VA	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#
1	NC	EXTENDED EXISTING CKT	EXIST	20	500	1000			500	20	EXIST	EXTENDED EXISTING CKT	NC	2
3	NC	EXTENDED EXISTING CKT	EXIST	20	500		1000		500	20	EXIST	EXTENDED EXISTING CKT	NC	4
5	NC	EXTENDED EXISTING CKT	EXIST	20	500			1000	500	20	EXIST	EXTENDED EXISTING CKT	NC	6
7	NC	EXTENDED EXISTING CKT	EXIST	20	500	1000			500	20	EXIST	EXTENDED EXISTING CKT	NC	8
9	NC	EXTENDED EXISTING CKT	EXIST	20	500		1000		500	20	EXIST	EXTENDED EXISTING CKT	NC	10
11	NC	EXTENDED EXISTING CKT	EXIST	20	500			1000	500	20	EXIST	EXTENDED EXISTING CKT	NC	12
13	L	LIGHTING 226	EXIST	20	500	1000			500	20	EXIST	LIGHTING 226	L	14
15	L	LIGHTING 226	EXIST	20	500		1000		500	20	EXIST	LIGHTING 226	L	16
17	L	LIGHTING 226	EXIST	20	500			1000	500	20	EXIST	NIGHT LIGHTS 226	L	18
19	L	DOMELIGHTS 226	EXIST	20	500	1000			500	20	EXIST	LIGHTING CORR 208	L	20
21	L	DOMELIGHTS 226	EXIST	20	500		1000		500	20	EXIST	DOME LIGHTS 226	L	22
23	L	DOMELIGHTS 226	EXIST	20	500			1000	500	20	EXIST	DOME LIGHTS 226	L	24
25	L	DOMELIGHTS 226	EXIST	20	500	1000			500	20	EXIST	LIGHTING 216,217	L	26
27	L	LIGHTNG 218	EXIST	20	500		1000		500	20	EXIST	LIGHITNG 216,217	L	28
29	L	LIGHITNG 218	EXIST	20	500			1000	500	20	EXIST	LIGHTING 212–214, c211	L	30
31	L	LIGHTING 215	EXIST	20	500	1000			500	20	EXIST	LIGHITNG 215	L	32
33	L	LIGHITNG 215,206	EXIST	20	500		1000		500	20	EXIST	LIGHITNG 215 HI HATS	L	34
35	L	DOMELIGHTS 215	EXIST	20	500			1000	500	20	EXIST	LIGHTING 209, CORR 208	L	36
37	L	LIGHTING 212,217,218	EXIST	20	500	500				20	EXIST	SPARE		38
39	NC	EXTENDED EXISTING CKT	EXIST	20	500		500			20	EXIST	SPARE		40
41		SPARE	EXIST	20				500	500	20	EXIST	BULLETIN BOARD LIGHTING	L	42
						7500 ØA	6500 ØB	6500 ØC						

PANELBOARD INFORMATION
VOLTAGE: 208Y/120
BUS AMPACITY: 100A
MAIN TYPE: 100A MCB
MINIMUM A.I.C.: 22,000
MOUNTING: SURFACE

☐ FEED-THROUGH LUGS
☐ DOUBLE LUGS
☐ INTEGRAL SPD

PANELBOARD LOCATION

BRANCH CIRCUIT CONNECTED LOAD		DEMAND FACTOR	CALCULATED LOAD	FEEDER AND OVERCURRENT SIZING	
CONTINUOUS LOAD (C)		100%		125%	
ELECTRIC HEAT (E)		100%		125%	
NON-CONTINUOUS LOAD (NC)	7500	100%	7500	100%	7500
KITCHEN LOAD (K)		100%		100%	
RECEPTACLE BASE LOAD (R)		100%		100%	
RECEPTACLE DEMAND LOAD (R)		50%		100%	
LIGHTING LOAD (L)	13000	100%	13000	125%	16250
ADDITIONAL TRACK LIGHTING LOAD				100%	
MOTORS, HIGHEST LOAD (MH)		125%		100%	
MOTORS, REMAINING LOAD (M)		100%		100%	
		TOTAL(KVA):	20.50		
		TOTAL (AMPS):	57	TOTAL (AMPS):	66

NOTES:

NOTE: DEMAND AND SIZING INFORMATION IS CALCULATED FROM CONNECTED LOAD

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EXISTING PANELBOARD MH1NE

#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	VA	ØA	ØB	ØC	VA	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#
1		EXTENDED EXISTING CKT (OFF)	EXIST	20						20	EXIST	EXTENDED EXISTING CKT (OFF)		2
3		EXTENDED EXISTING CKT (OFF)	EXIST	20						20	EXIST	EXTENDED EXISTING CKT (OFF)		4
5		EXTENDED EXISTING CKT (OFF)	EXIST	20						20	EXIST	EXTENDED EXISTING CKT (OFF)		6
7	NC	AC–1	EXIST	20	1000	1000				20	EXIST	AC–2 ROOM 171		8
9	NC	BCU–1–1	NEW	15	1357		1357			20	EXIST	SPARE		10
11		SPARE	EXIST	20						20	EXIST	SPARE		12
13		SPARE	EXIST	20						20	EXIST	SPARE		14
15		SPARE	EXIST	20						20	EXIST	SPARE		16
17		SPARE	EXIST	20						20	EXIST	SPARE		18
19		SPARE	EXIST	20						20	EXIST	SPARE		20
21		SPARE	EXIST	20						20	EXIST	SPARE		22
23		SPARE	EXIST	20						20	EXIST	SPARE		24
25		SPARE	EXIST	20						20	EXIST	SPARE		26
27		SPARE	EXIST	20						20	EXIST	SPARE		28
29		SPARE	EXIST	20						20	EXIST	SPARE		30
31		SPARE	EXIST	20						20	EXIST	SPARE		32
33		SPARE	EXIST	20						20	EXIST	SPARE		34
35		SPARE	EXIST	20						20	EXIST	SPARE		36
37		SPARE	EXIST	20						20	EXIST	SPARE		38
39		SPACE										SPACE		40
41		SPACE										SPACE		42
						1000 ØA	1357 ØB	ØC						

PANELBOARD INFORMATION
VOLTAGE: 480Y/277
BUS AMPACITY: 100A
MAIN TYPE: 100A MCB
MINIMUM A.I.C.: 35,000
MOUNTING: SURFACE

☐ FEED-THROUGH LUGS
☐ DOUBLE LUGS
☐ INTEGRAL SPD

PANELBOARD LOCATION

BRANCH CIRCUIT CONNECTED LOAD		DEMAND FACTOR	CALCULATED LOAD	FEEDER AND OVERCURRENT SIZING	
CONTINUOUS LOAD (C)		100%		125%	
ELECTRIC HEAT (E)		100%		125%	
NON-CONTINUOUS LOAD (NC)	2357	100%	2357	100%	2357
KITCHEN LOAD (K)		100%		100%	
RECEPTACLE BASE LOAD (R)		100%		100%	
RECEPTACLE DEMAND LOAD (R)		50%		100%	
LIGHTING LOAD (L)		100%		125%	
ADDITIONAL TRACK LIGHTING LOAD				100%	
MOTORS, HIGHEST LOAD (MH)		125%		100%	
MOTORS, REMAINING LOAD (M)		100%		100%	
		TOTAL(KVA):	2.36		
		TOTAL (AMPS):	3	TOTAL (AMPS):	3

NOTES:

NOTE: DEMAND AND SIZING INFORMATION IS CALCULATED FROM CONNECTED LOAD

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EXISTING PANELBOARD LSL1NE

#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	VA	ØA	ØB	ØC	VA	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#
1	C		EXIST							20	EXIST	SPARE		2
3	C	SPD	EXIST	30			1000		1000	20	EXIST	LTG 203, 212	L	4
5	C		EXIST					1000	1000	20	EXIST	EXIST AND EMRG LTG	L	6
7	MH	BASEMENT EXHAUST FAN	EXIST	20	500	500				20	EXIST	SPARE		8
9	MH		EXIST		500		500			20	EXIST	SPARE		10
11	L	HAND RAIL LIGHTING EM – LAFAYETTE	EXIST	20	415			415		20	EXIST	SPARE		12
13		SPARE	EXIST	20						20	EXIST	SPARE		14
15		SPARE	EXIST	20						20	EXIST	SPARE		16
17		SPARE	EXIST	20						20	EXIST	SPARE		18
19		SPARE	EXIST	20						20	EXIST	SPARE		20
21		SPARE	EXIST	20						20	EXIST	SPARE		22
23		SPARE	EXIST	20						20	EXIST	SPARE		24
25		SPARE	EXIST	20						20	EXIST	SPARE		26
27		SPARE	EXIST	20						20	EXIST	SPARE		28
29		SPARE	EXIST	20						20	EXIST	SPARE		30
31		SPARE	EXIST	20						20	EXIST	SPARE		32
33		SPARE	EXIST	20						20	EXIST	SPARE		34
35	L	BASMT HALL	EXIST	20	1000			1000		20	EXIST	SPARE		36
37	M	BASEMENT EXHAUST FAN	NEW	20	500	500				20	EXIST	SPARE		38
39	M		NEW		500		500			20	EXIST	SPARE		40
41		PS1.1,PS1.4,PS1M.1	EXIST	20						20	EXIST	SPARE		42
						6040 ØA	7040 ØB	7455 ØC						

PANELBOARD INFORMATION
VOLTAGE: 208Y/120
BUS AMPACITY: 100A
MAIN TYPE: 100A MCB
MINIMUM A.I.C.: 10,000
MOUNTING: SURFACE

☐ FEED-THROUGH LUGS
☐ DOUBLE LUGS
☐ INTEGRAL SPD

PANELBOARD LOCATION

BRANCH CIRCUIT CONNECTED LOAD		DEMAND FACTOR	CALCULATED LOAD	FEEDER AND OVERCURRENT SIZING	
CONTINUOUS LOAD (C)		100%		125%	
ELECTRIC HEAT (E)		100%		125%	
NON-CONTINUOUS LOAD (NC)		100%		100%	
KITCHEN LOAD (K)		100%		100%	
RECEPTACLE BASE LOAD (R)		100%		100%	
RECEPTACLE DEMAND LOAD (R)		50%		100%	
LIGHTING LOAD (L)	3415	100%	3415	125%	4269
ADDITIONAL TRACK LIGHTING LOAD				100%	
MOTORS, HIGHEST LOAD (MH)	1000	125%	1250	100%	1250
MOTORS, REMAINING LOAD (M)	1000	100%	1000	100%	1000
		TOTAL(KVA):	5.67		
		TOTAL (AMPS):	16	TOTAL (AMPS):	18

NOTES:
LS LABELED PANELS
STAND FOR
LIFE SAFETY

NOTE: DEMAND AND SIZING INFORMATION IS CALCULATED FROM CONNECTED LOAD

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EXISTING PANELBOARD OSL1NE

#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	VA	ØA	ØB	ØC	VA	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#
1	C		EXIST			7000			7000		EXIST		C	2
3	C	SPD	EXIST	30			7000		7000	100	EXIST	PANEL EMCC	C	4
5	C		EXIST					7000	7000		EXIST		C	6
7	R	BASEMENT SECURITY PANEL	NEW	20	360	860			500	20	EXIST	EXTENDED EXISTING CKT	NC	8
9	R	2ND FLOOR SECUIRTY PANEL	NEW	20	360		860		500	20	EXIST	EXTENDED EXISTING CKT	NC	10
11	R	2ND FLOOR SALLYPORT	NEW	20	720			1220	500	20	EXIST	EXTENDED EXISTING CKT	NC	12
13	NC	EXTENDED EXISTING CKT	EXIST	20	500	1000			500	20	EXIST	EXTENDED EXISTING CKT	NC	14
15	NC	EXTENDED EXISTING CKT	EXIST	40	2300		2800		500	20	EXIST	EXTENDED EXISTING CKT	NC	16
17	NC		EXIST		2300			2500	200	20	EXIST	EXIT SIGN	NC	18
19	NC		EXIST		3000	4500			1500		EXIST		NC	20
21	NC	EXTENDED EXISTING CKT	EXIST	60	3000		4500		1500	30	EXIST	EXTENDED EXISTING CKT	NC	22
23	NC		EXIST		3000			4500	1500		EXIST		NC	24
25	NC		EXIST		1500	2000			500	20	EXIST	EXTENDED EXISTING CKT	NC	26
27	NC	EXTENDED EXISTING CKT	EXIST	30	1500		1500			20	EXIST	SPARE		28
29	NC		EXIST		1500			2000	500	20	EXIST	EXTENDED EXISTING CKT	NC	30
31	NC	EXTENDED EXISTING CKT	EXIST	20	500	1000			500	20	EXIST	EXTENDED EXISTING CKT	NC	32
33	NC	EXTENDED EXISTING CKT	EXIST	20	500		1000		500	20	EXIST	EXTENDED EXISTING CKT	NC	34
35	NC	EXTENDED EXISTING CKT	EXIST	20	500			1000	500	20	EXIST	EXTENDED EXISTING CKT	NC	36
37	NC	EXTENDED EXISTING CKT	EXIST	20	500	1000			500	20	EXIST	EXTENDED EXISTING CKT	NC	38
39	NC	EXTENDED EXISTING CKT	EXIST	20	500		1000		500	20	EXIST	EXTENDED EXISTING CKT	NC	40
41	NC	ELECT ROOM	EXIST	20	500			1000	500	20	EXIST	EXTENDED EXISTING CKT	NC	42
						22400 ØA	23700 ØB	24260 ØC						

PANELBOARD INFORMATION
VOLTAGE: 208Y/120
BUS AMPACITY: 225A
MAIN TYPE: 175A MCB
MINIMUM A.I.C.: 10,000
MOUNTING: SURFACE

☐ FEED-THROUGH LUGS
☐ DOUBLE LUGS
☐ INTEGRAL SPD

PANELBOARD LOCATION

BRANCH CIRCUIT CONNECTED LOAD		DEMAND FACTOR	CALCULATED LOAD	FEEDER AND OVERCURRENT SIZING	
CONTINUOUS LOAD (C)	21000	100%	21000	125%	26250
ELECTRIC HEAT (E)		100%		125%	
NON-CONTINUOUS LOAD (NC)	32800	100%	32800	100%	32800
KITCHEN LOAD (K)		100%		100%	
RECEPTACLE BASE LOAD (R)	1440	100%	1440	100%	1440
RECEPTACLE DEMAND LOAD (R)		50%		100%	
LIGHTING LOAD (L)		100%		125%	
ADDITIONAL TRACK LIGHTING LOAD				100%	
MOTORS, HIGHEST LOAD (MH)		125%		100%	
MOTORS, REMAINING LOAD (M)		100%		100%	
		TOTAL(KVA):	55.24		
		TOTAL (AMPS):	153	TOTAL (AMPS):	168

NOTES:
OS LABELED PANELS
STAND FOR
OPTIONAL STANDBY

NOTE: DEMAND AND SIZING INFORMATION IS CALCULATED FROM CONNECTED LOAD

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NEW PANELBOARD OSL1NE2

#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	VA	ØA	ØB	ØC	VA	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#
1	R	XRAY – 191 – SECURE ALCOVE		20	1200	2200			1000	20		WTMD–191–GUN LOCKER	R	2
3	NC	ELECTRIC STRIKE – 185 – ENTRY VESTIBULE		20	600		780		180	20		FUTURE LOAD–191–GUN LOCKER	R	4
5	NC	ELECTRIC STRIKE – 180 – VESTIBULE		20	600			960	360	20		RCPT–B46–VEHICLE SALLYPORT	R	6
7	R	RCPT–ELEVATOR LOBBY		20	1000	1360			360	20		RCPT–B46–VEHICLE SALLYPORT	R	8
9	R	RCPT–B46–VEHICLE SALLYPORT		20	540		900		360	20		QUAD – 102.6 – SECURITY CLOSET RISER	R	10
11	R	RCPT–B49–ELEVATOR SALLYPORT		20				360	360	20		QUAD – 102.6 – SECURITY CLOSET RISER	R	12
13	C	PWR SUPPLY – 293 – SECURITY CLOSET		20	200	560			360	20		QUAD – 102.6 – SECURITY CLOSET RISER	R	14
15	C	PWR SUPPLY – 293 – SECURITY CLOSET		20	200		560		360	20		QUAD – 102.6 – SECURITY CLOSET RISER	R	16
17	R	CCTV MONITOR – 190 – GUARD BOOTH		20	180			380	200	20		PWR SUPPLY – 102.6 – SECURITY CLO RIS.	C	18
19	R	CCTV MONITOR – 183 – GUARD BOOTH		20	180	580			400	20		BASEMENT 120LB MAG LOCKS	NC	20
21		SPARE		20			400		400	20		BASEMENT 120LB MAG LOCKS	NC	22
23	NC	ELECTRIC STRIKE – 2ND FLOOR		20	800			1200	400	20		SECOND FLOOR 120LB MAG LOCKS	NC	24
25		SPARE		20		400			400	20		SECOND FLOOR 120LB MAG LOCKS	NC	26
27		SPARE		20						20		SPARE		28
29		SPARE		20						20		SPARE		30
						10140 ØA	7680 ØB	7940 ØC						

PANELBOARD INFORMATION
VOLTAGE: 208Y/120
BUS AMPACITY: 60A
MAIN TYPE: 60A MCB
MINIMUM A.I.C.: 10,000
MOUNTING: SURFACE

☐ FEED-THROUGH LUGS
☐ DOUBLE LUGS
☐ INTEGRAL SPD

PANELBOARD LOCATION

BRANCH CIRCUIT CONNECTED LOAD		DEMAND FACTOR	CALCULATED LOAD	FEEDER AND OVERCURRENT SIZING	
CONTINUOUS LOAD (C)	600	100%	600	125%	750
ELECTRIC HEAT (E)		100%		125%	
NON-CONTINUOUS LOAD (NC)	3600	100%	3600	100%	3600
KITCHEN LOAD (K)		100%		100%	
RECEPTACLE BASE LOAD (R)	6440	100%	6440	100%	6440
RECEPTACLE DEMAND LOAD (R)		50%		100%	
LIGHTING LOAD (L)		100%		125%	
ADDITIONAL TRACK LIGHTING LOAD				100%	
MOTORS, HIGHEST LOAD (MH)		125%		100%	
MOTORS, REMAINING LOAD (M)		100%		100%	
		TOTAL(KVA):	10.64		
		TOTAL (AMPS):	30	TOTAL (AMPS):	30

NOTES:
OS LABELED PANELS
STAND FOR
OPTIONAL STANDBY

NOTE: DEMAND AND SIZING INFORMATION IS CALCULATED FROM CONNECTED LOAD

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EXISTING PANELBOARD OSL4NE

#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	VA	ØA	ØB	ØC	VA	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#
1	R	EM REC 4TH NW EC	EXIST	20	360	720			360	20	EXIST	EM REC 4TH NE EC	R	2
3	MH	ERU–3–1	NEW	30	1373		1373				EXIST			4
5	MH		NEW		1373			1373		30	EXIST	SPD		6
7	M	CC–3–1 CONDENSATE PUMP	EXIST	20	200	200					EXIST			8
9		SPARE	EXIST	20			10000		10000		EXIST		C	10
11		SPARE	EXIST	20				10000	10000	125	EXIST	REFEED EXISTING RCPT PANEL LDP–A	C	12
13		SPARE	EXIST	20		10000			10000		EXIST		C	14
15		SPARE	EXIST	20							EXIST	SPACE		16
17		SPARE	EXIST	20						20	EXIST	SPARE		18
19		SPARE	EXIST	20						20	EXIST	SPARE		20
21		SPARE	EXIST	20						20	EXIST	SPARE		22
23		SPARE	EXIST	20						20	EXIST	SPARE		24
25		SPARE	EXIST	20						20	EXIST	SPARE		26
27		SPARE	EXIST	20						20	EXIST	SPARE		28
29		SPARE	EXIST	20						20	EXIST	SPARE		30
31		SPARE	EXIST	20						20	EXIST	SPARE		32
33		SPARE	EXIST	20						20	EXIST	SPARE		34
35		SPARE	EXIST	20						20	EXIST	SPARE		36
37		SPARE	EXIST	20						20	EXIST	SPARE		38
39		SPARE	EXIST	20						20	EXIST	SPARE		40
41		SPARE	EXIST	20						20	EXIST	SPARE		42
						15960 ØA	16413 ØB	16413 ØC						

PANELBOARD INFORMATION
VOLTAGE: 208Y/120
BUS AMPACITY: 225A
MAIN TYPE: 175A MCB
MINIMUM A.I.C.: 10,000
MOUNTING: SURFACE

☐ FEED-THROUGH LUGS
☐ DOUBLE LUGS
☐ INTEGRAL SPD

PANELBOARD LOCATION

BRANCH CIRCUIT CONNECTED LOAD		DEMAND FACTOR	CALCULATED LOAD	FEEDER AND OVERCURRENT SIZING	
CONTINUOUS LOAD (C)	30000	100%	30000	125%	37500
ELECTRIC HEAT (E)		100%		125%	
NON-CONTINUOUS LOAD (NC)		100%		100%	
KITCHEN LOAD (K)		100%		100%	
RECEPTACLE BASE LOAD (R)	720	100%	720	100%	720
RECEPTACLE DEMAND LOAD (R)		50%		100%	
LIGHTING LOAD (L)		100%		125%	
ADDITIONAL TRACK LIGHTING LOAD				100%	
MOTORS, HIGHEST LOAD (MH)	2746	125%	3433	100%	3433
MOTORS, REMAINING LOAD (M)	200	100%	200	100%	200
		TOTAL(KVA):	34.35		
		TOTAL (AMPS):	95	TOTAL (AMPS):	116

NOTES:
OS LABELED PANELS
STAND FOR
OPTIONAL STANDBY

PANELBOARD LOCATED IN
4TH FLOOR IN ELECTRICAL
CLOSET N0455
LENGTH BETWEEN NEW
ERU–3–1 AND PANEL IS
APROXIMATELY 163'–6"

NOTE: DEMAND AND SIZING INFORMATION IS CALCULATED FROM CONNECTED LOAD

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EXISTING PANELBOARD OSL10NE

#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	VA	ØA	ØB	ØC	VA	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#
1	C		EXIST			500			500	20	EXIST	ELEVATOR 5 CONTROL POWER	NC	2
3	C	SPD	EXIST	30			500		500	20	EXIST	ELEVATOR 6 CONTROL POWER	NC	4
5	C		EXIST					500	500	20	EXIST	ELEVATOR 7 CONTROL POWER	NC	6
7		SPARE	EXIST	20		500			500	20	EXIST	ELEVATOR 8 CONTROL POWER	NC	8
9		SPARE	EXIST	20			360		360	20	EXIST	EM RCPT NE/NW ER	R	10
11		SPARE	EXIST	20						20	EXIST	SPARE		12
13	NC		EXIST		1080	2524			1444		EXIST		NC	14
15	NC	EXTENDED EXISTING CIRCUIT	EXIST	15	1080		2524		1444	20	EXIST	EXTENDED EXISTING CIRCUIT	NC	16
17	NC		EXIST		1080			2524	1444		EXIST		NC	18
19	NC		NEW		3230	5726			2496	40	EXIST	EXTENDED EXISTING CIRCUIT	NC	20
21	NC	AC–3	NEW	35	3230		5726		2496		EXIST		NC	22
23	NC		NEW		3230			8994	5764		NEW		NC	24
25	NC		NEW		1609	7373			5764	60	NEW	ELEVATOR 9	NC	26
27	NC	ACCU–3	NEW	25	1609		7373		5764		NEW		NC	28
29	NC		NEW		1609			2109	500	20	EXIST	ELEVATOR 9 CONTROLS	NC	30
31		SPARE	EXIST	20						20	EXIST	SPARE		32
33		SPARE	EXIST	20						20	EXIST	SPARE		34
35		SPARE	EXIST	20						20	EXIST	SPARE		36
37		SPARE	EXIST	20						20	EXIST	SPARE		38
39		SPARE	EXIST	20						20	EXIST	SPARE		40
41		SPARE	EXIST	20								SPACE		42
						21663 ØA	21523 ØB	19167 ØC						

PANELBOARD INFORMATION
VOLTAGE: 208Y/120
BUS AMPACITY: 225A
MAIN TYPE: 175A MCB
MINIMUM A.I.C.: 10,000
MOUNTING: SURFACE

☐ FEED-THROUGH LUGS
☐ DOUBLE LUGS
☐ INTEGRAL SPD

PANELBOARD LOCATION

BRANCH CIRCUIT CONNECTED LOAD		DEMAND FACTOR	CALCULATED LOAD	FEEDER AND OVERCURRENT SIZING	
CONTINUOUS LOAD (C)		100%		125%	
ELECTRIC HEAT (E)		100%		125%	
NON-CONTINUOUS LOAD (NC)	46873	100%	46873	100%	46873
KITCHEN LOAD (K)		100%		100%	
RECEPTACLE BASE LOAD (R)	360	100%	360	100%	360
RECEPTACLE DEMAND LOAD (R)		50%		100%	
LIGHTING LOAD (L)		100%		125%	
ADDITIONAL TRACK LIGHTING LOAD				100%	
MOTORS, HIGHEST LOAD (MH)		125%		100%	
MOTORS, REMAINING LOAD (M)		100%		100%	
		TOTAL(KVA):	47.23		
		TOTAL (AMPS):	131	TOTAL (AMPS):	131

NOTES:
OS LABELED PANELS
STAND FOR
OPTIONAL STANDBY

PANELBOARD LOCATED IN
4TH FLOOR IN ELECTRICAL
CLOSET N0455
LENGTH BETWEEN NEW
ERU–3–1 AND PANEL IS
APROXIMATELY 163'–6"

NOTE: DEMAND AND SIZING INFORMATION IS CALCULATED FROM CONNECTED LOAD

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KEY PLAN

GRAPHIC SCALE

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

STAMP OR SEAL

STATE OF MICHIGAN
ERIC MICHAEL GRAETTINGER
ENGINEER
No. 6201052164
LICENSED PROFESSIONAL ENGINEER

OWNER IDENTIFICATION

General Services Administration
Public Buildings Service
Great Lakes
Design and Construction,
Project Delivery Division
John C. Kluczynski Federal Building
230 South Dearborn St.
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SMB
CHECKED BY	EMG
FLOOR NO.	N/A
DISCIPLINE	ELECTRICAL
PLAN TYPE	SCHEDULES
SHEET NUMBER AND FILENAME	E503

g:\2021\2021-0206-00\CAD\2021-0206-E5-SH.dwg, E503, 2/14/2023 8:58:03 AM, Alex Brown, Peter Basso Associates Inc.

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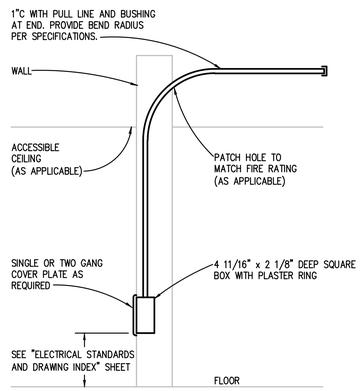
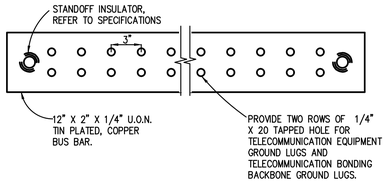


TELECOMMUNICATION OUTLET DETAIL

NO SCALE

NOTES:

1. IF CEILING IN ROOM IS NOT ACCESSIBLE, ROUTE CONDUIT TO NEAREST ACCESSIBLE CEILING IN DIRECTION OF AND WITH PATHWAY OR ACCESS TO TELECOMMUNICATION ROOM.

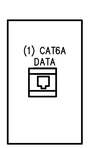


TELECOMMUNICATIONS GROUND BUS (TGB) DETAIL

NO SCALE

NOTE:

PROVIDE TWO HOLE LUGS FOR TELECOMMUNICATION BONDING BACKBONE CONNECTIONS, AND ONE HOLE LUGS FOR EQUIPMENT GROUND CONDUCTOR CONNECTIONS.



TYPICAL DATA OUTLET SURFACE MOUNTED CONDUIT/DEVICE DETAIL

NO SCALE

GENERAL NOTES:
1. NO SEPARATION IS REQUIRED FOR POWER AND DATA
2. NON-METALLIC FIBER ONLY

INTERIOR LIGHTING CONTROL SCHEDULE

PLAN REFERENCE	ROOM TYPE	LOCAL CONTROL		CONTROL ON / OFF	SENSOR TYPE	TURN ON LIGHTING TO %	BI-LEVEL CONTROL	NO DETECTION FULL OFF (MIN)	TIME-CLOCK SCHEDULE	EMERGENCY LIGHTING CIRCUIT CONTROL	NOTES
		SWITCH TYPE	SWITCH CONTROL								
A	CORRIDOR (ALL OTHER CORRIDORS)	LOW VOLTAGE	ON-OFF	MANUAL ON / SENSOR OFF	DUAL TECHNOLOGY	FULL 100%	NA	20	NA	ALCR	
B	STORAGE ROOM (< 50 SQFT)	LOW VOLTAGE	ON-OFF	MANUAL ON / SENSOR OFF	DUAL TECHNOLOGY	FULL 100%	NA	20	NA	NA	
C	ELECTRICAL/MECHANICAL ROOM	LOW VOLTAGE	ON-OFF	MANUAL ON / MANUAL OFF	NA	FULL 100%	NA	NA	NA	NA	
D	SALLY PORT	LOW VOLTAGE	ON-OFF	SENSOR ON / SENSOR OFF	DUAL TECHNOLOGY	PARTIAL 50%	NA	20	NA	ALCR	
E	OFFICE (ENCLOSED AND ≤ 250 SQFT)	LOW VOLTAGE	ON-OFF-DIM	MANUAL ON / MANUAL OFF	DUAL TECHNOLOGY	FULL 100%	INTERMEDIATE STEP 50%	20	NA	ALCR	
F	CONFERENCE/MEETING/MULTIPURPOSE ROOM	LOW VOLTAGE	ON-OFF-DIM	MANUAL ON / SENSOR OFF	DUAL TECHNOLOGY	FULL 100%	CONTINUOUS DIM	20	NA	ALCR	
G	LOUNGE/BREAKROOM (ALL OTHER LOUNGES/BREAKROOMS)	LOW VOLTAGE	ON-OFF-DIM	SENSOR ON / SENSOR OFF	DUAL TECHNOLOGY	PARTIAL 50%	INTERMEDIATE STEP 50%	20	NA	ALCR	
H	CONFINEMENT CELLS	LOW VOLTAGE	ON-OFF-DIM	SENSOR ON / SENSOR OFF	DUAL TECHNOLOGY	PARTIAL 75%	INTERMEDIATE STEP 50%	20	NA	NA	
I	LOBBY (FOR AN ELEVATOR)	LOW VOLTAGE	ON-OFF-DIM	MANUAL ON / SENSOR OFF	DUAL TECHNOLOGY	FULL 100%	NA	20	OWNER SELECTED	ALCR	PROVIDE TIME CLOCK CONTROL FOR LIFT CORRIDOR 187, LIFT 1, SECURE ALCOVE 191, GUARD BOOTH190. LOCATE TIME CONTROL DEVICE IN ELECTRICAL CLOSET 193.

NOTE:
1. REFER TO PLANS FOR LOCATION OF LOCAL CONTROL.
2. REFER TO PLANS FOR SCENE CONTROL.
3. REFER TO PLANS FOR PRIMARY AND SECONDARY DAYLIGHT ZONES.
4. PROVIDE EMERGENCY LIGHTING CIRCUIT CONTROL (BCELTS OR ALCR) PER SWITCHING CIRCUIT AS REQUIRED.
5. CONTRACTOR SHALL PROVIDE FLOOR PLAN INDICATING SENSOR AND EQUIPMENT LOCATIONS OF CHOSEN CONTROL SYSTEM.
6. NOT USED
7. REFER TO TEMPERATURE CONTROL DRAWINGS AND DIAGRAMS FOR ADDITIONAL SENSOR REQUIREMENTS.
8. PROVIDE WIRING CONTROL DIAGRAM FOR APPLICABLE CONTROL SYSTEM(S).
9. PERCENTAGE LIGHT OUTPUT REDUCTION IS FOR ALL FIXTURES WITHIN THE DESIGNATED ROOM UNLESS OTHERWISE NOTED.

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EXTERIOR LIGHTING CONTROL SCHEDULE

PLAN REFERENCE	ROOM TYPE	LOCAL CONTROL		CONTROL ON / OFF	TURN ON LIGHTING TO %	EMERGENCY LIGHTING CIRCUIT CONTROL	NOTES
		SWITCH TYPE	SWITCH CONTROL				
Y	EXTERIOR RAILING	LOW VOLTAGE	ON-OFF	NORMAL – PHOTOCELL CONTROL; MANUAL OVERRIDE. EMERGENCY OPERATION	FULL 100%	BCELTS	LOCKABLE LOCAL CONTROL BY ENTRANCE GUARD BOOTH. PROVIDE PHOTOCELL CONTROL TO TURN LIGHTING ON/OFF. INCLUDE AUTOMATIC EMERGENCY ACTIVATION DURING NORMAL POWER OUTAGE
Z	EXTERIOR SIGNAGE	LOW VOLTAGE	ON-OFF-DIM	NORMAL – PHOTOCELL CONTROL; MANUAL OVERRIDE.	FULL 100%	NA	LOCKABLE LOCAL CONTROL BY ENTRANCE GUARD BOOTH. PROVIDE PHOTOCELL CONTROL TO TURN LIGHTING ON/OFF

NOTE:
1. REFER TO PLANS FOR LOCATION OF LOCAL CONTROL.
2. REFER TO PLANS FOR SCENE CONTROL.
3. REFER TO PLANS FOR PRIMARY AND SECONDARY DAYLIGHT ZONES.
4. PROVIDE EMERGENCY LIGHTING CIRCUIT CONTROL (BCELTS OR ALCR) PER SWITCHING CIRCUIT AS REQUIRED.
5. CONTRACTOR SHALL PROVIDE FLOOR PLAN INDICATING SENSOR AND EQUIPMENT LOCATIONS OF CHOSEN CONTROL SYSTEM.
6. NOT USED
7. REFER TO TEMPERATURE CONTROL DRAWINGS AND DIAGRAMS FOR ADDITIONAL SENSOR REQUIREMENTS.
8. PROVIDE WIRING CONTROL DIAGRAM FOR APPLICABLE CONTROL SYSTEM(S).

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LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER(S)	WATTAGE	VOLTAGE	LIGHT CHARACTERISTICS	CONTROLS	REMARKS
L1A	2x2 DIRECT RECESSED	PEERLESS – MN9	25	120	LED, 3500K, 2600LM, 80CRI	1% 0-10V DIMMING	
L1B	2X2 DIRECT RECESSED	PEERLESS-MN9	38	120	LED, 3500K, 3800 LM, 80CRI	1% 0-10V DIMMING	
L2A	4FT STRIPLIGHT	LITHONIA – ZL1D	30	MVOLT	LED,3500K,3000LM, 80CRI	1% 0-10V DIMMING	
L2B	4FT STRIPLIGHT	LITHONIA – ZL1D	41	MVOLT	LED,3500K,7000LM, 80CRI	1% 0-10V DIMMING	
L4	8FT LED TAPELIGHT	TIVOTYPE – ELITE	25.6	120	LED,3500K, 355LM, 80CRI	1% 0-10V DIMMING	
L5	1x4 LINEAR, DETENTION GRADE	KENALL – HASEDI	55	MVOLT	LED, 3700K, 5429LM, 80CRI	1% 0-10V DIMMING	PROVIDE EMERGENCY BATTERY BACK UP
L6A	2X2 RECESSED LIGHTING	LITHONIA – 2VTL2	15.9	MVOLT	LED, 3500K, 2000LM, 80CRI	1% 0-10V DIMMING	
L6B	2X2 RECESSED LIGHTING	LITHONIA – 2VTL2	26.3	MVOLT	LED, 3500K,3300LM, 80CRI	1% 0-10V DIMMING	
L7	15" DIAMETER CEILING SURFACE	KENALL – RHR15D	25	MVOLT	LED, 3500K, 2900L, 80CRI	1% 0-10V DIMMING	
L8	SINGLE RAIL, 3" ARM LENGTH, 85 DEGREE ASYMMETRIC OPTIC, EXACT FIXTURE LENGTH TO VERIFIED IN FIELD	VODE – 107-BX	3.5W/FT	MVOLT	LED, 3500K, LOW OUTPUT, 80CRI, INTGETRAL POWER	1% 0-10V DIMMING	
L9	ILLUMINATED HANDRAIL, MATTE ASYMMETRIC LENS, LENGTH AS SHOWN ON PLAN	WAGNER – LUMENLINEAR ASYMMETRIC	1.87W/FT	120	LED, 3000K, 20 WATT OPTION	1% 0-10V DIMMING	
L10	4 LINEAR, VANDAL RESISTANT	KURTZON VANDAL B	56	120	LED, 3500K, 2/LEDR SOURCE	1% 0-10V DIMMING	PROVIDE EMERGENCY BATTERY BACK UP
L11	ROUND ADJUSTABLE DOWNLIGHT	ALPHABET – NU6	37	MVOLT	LED, 3500K, 3000L, 80CRI	1% 0-10V DIMMING	
L12	2X4 RECESSED LIGHTING	LITHONIA – 2VTL4	38.4	MVOLT	LED, 3500K, 4800LM, 80CRI	1% 0-10V DIMMING	
L13	LINEAR GRAZER, 13 DEGREE OPTIC, WET LOCATION	QTRAN – VERS-04-SW	3W/FT	MVOLT	LED, 3500K	1% 0-10V DIMMING	
L14	2X2 DIRECT SURFACE	PEERLESS-MN9	25	120	LED, 3500K, 2600 LM, 80CRI	1% 0-10V DIMMING	
L15	SINGLE RAIL, 60" LENGTH WALL ARM, 18" ARM LENGTH, BLACK BAFFLE OPTICS	VODE – 107-BX	6.1W/FT	MVOLT	LED, 3500K, STANDARD OUTPUT, 80CRI, REMOTE POWER	1% 0-10V DIMMING	

GENERAL NOTES:
1. REFER TO SPECIFICATIONS FOR DETAILED LIGHT FIXTURE CUT SHEETS.
2. WATTAGE LISTED IS FROM THE BASIS OF DESIGN MANUFACTURER.
3. FINISH TO BE APPROVED BY INTERIOR DESIGNER, ARCHITECT OR CLIENT.
4. ALL LUMINAIRES TO BE AS SPECIFIED OR EQUAL APPROVED BY PBA AND/OR ILLUMINART.

KEY PLAN

GRAPHIC SCALE

REVISION BLOCK

MARK	DATE	DESCRIPTION
1	2/15/2023	100% REVISION
	02/03/2023	100% REVISION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

STAMP OR SEAL

STATE OF MICHIGAN
ERIC MICHAEL GRAETTINGER
ENGINEER
No. 62010521 64
LICENSED PROFESSIONAL ENGINEER

OWNER IDENTIFICATION

GSA
General Services Administration
Public Buildings Service
Great Lakes
Design and Construction,
Project Delivery Division
John C. Kluczynski Federal Building
230 South Dearborn St.
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SMB
CHECKED BY	EMG
FLOOR NO.	N/A
DISCIPLINE	ELECTRICAL
PLAN TYPE	DETAILS
SHEET NUMBER AND FILENAME	E701

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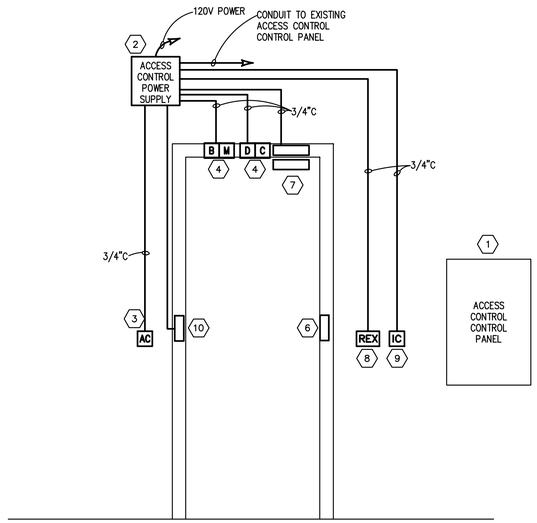


DOOR HARDWARE SINGLE DOOR ACCESS CONTROL ROUGH-IN DIAGRAM

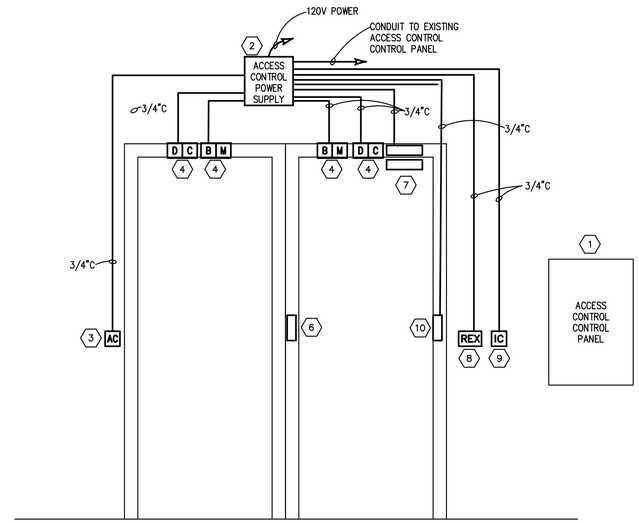
NO SCALE

GENERAL NOTES:

1. REFER TO ELECTRICAL FLOOR PLANS FOR INDIVIDUAL DOOR REQUIREMENTS AND DEVICE LOCATIONS.
2. PROVIDE BACK BOXES AND CONDUIT AS REQUIRED BY MANUFACTURER. COORDINATE EXACT REQUIREMENTS AND SCOPE OF WORK WITH OWNER AND ACCESS CONTROL CONTRACTOR.
3. DETAIL INDICATES ALL POSSIBLE DEVICES. COORDINATE WITH TSS DRAWINGS FOR DEVICE REQUIREMENTS AT EACH INDIVIDUAL DOOR. COORDINATE ALL WORK WITH HARDWARE CONTRACTOR.

(#) KEYED NOTES:

1. EXISTING ACCESS CONTROL CONTROL PANEL. CONFIRM LOCATION IN FIELD.
2. ACCESS CONTROL POWER SUPPLY. COORDINATE EXACT LOCATION AND QUANTITY WITH OWNER OR ACCESS CONTROL CONTRACTOR.
3. ACCESS CONTROL DEVICES INDICATED ON PLAN.
   - 3.1. CARD READER/CARD READER WITH KEYPAD – PROVIDE DOUBLE GANG JUNCTION BOX (4"X4") WITH SINGLE GANG MUD RING. INSTALL AT 48" A.F.F. ON CENTER VERTICAL ORIENTATION.
   - 3.2. SCRAMBLE PAD – PROVIDE (1) 1" CONDUIT TO SCRAMBLE PAD. PROVIDE JUNCTION BOX FROM MANUFACTURER (4.5"X3.5"X3.9"). INSTALL 48" A.F.F. TO CENTER OF VERTICAL ORIENTED DEVICE.
4. BALANCED MAGNETIC DOOR CONTACT/DOOR CONTACT – PROVIDE DOUBLE GANG (4"X4") JUNCTION BOX; GROUT AS REQUIRED WITH BEVELED DOUBLE GANG COVER PLATE – DUST BOX RACO 426 OR APPROXIMATE EQUAL WITH SINGLE GANG MUD RING. MOUNT HORIZONTALLY ON DOOR FRAME AND DOOR, SURFACED OR FLUSH MOUNTED.
5. NOT USED.
6. ELECTRIC STRIKE, PANIC HARDWARE, POWER TRANSFER; PROVIDE 3/4" CONDUIT TO DOOR FRAME. PROVIDE CIRCUIT AS INDICATED ON PLAN.
7. 120LB MAGNETIC LOCK LOCATED AT TOP OF DOOR; PROVIDE CONDUIT STUBBED ABOVE CEILING ON THE SECURE SIDE OF THE DOOR AND DOWN TO THE DOOR FRAME. NPSC SUPPLIED POWER SUPPLY UNIT IS LOCATED IN A SECURITY CLOSET. PROVIDE CIRCUIT AS INDICATED ON PLAN.
8. REQUEST TO EXIT; PROVIDE DOUBLE GANG JUNCTION BOX. COORDINATE EXACT LOCATION WITH DOOR HARDWARE SCHEDULE.
9. INTERCOM STATION:
   - 9.1. INTERCOM – PROVIDE DOUBLE GANG JUNCTION BOX WITH SINGLE GANG MUD RING. INSTALL AT 48"A.F.F. TO CENTER OF INTERCOM VERTICAL ORIENTATION. PROVIDE PLENUM RATED CABLE.
   - 9.2. INTERCOM WITH DURESS BUTTON – PROVIDE RACO 692 OR 697, OR STEEL CITY CW-335-C (THREE GANG MASONARY TYPE OR EQUAL) JUNCTION BOX. INSTALL 48"A.F.F. TO CENTER OF VERTICAL ORIENTED DEVICE.
   - 9.3. AUDIO/VIDEO INTERCOM – PROVIDE DOUBLE GANG JUNCTION BOX WITH SINGLE GANG MUD RING. INSTALL AT 48"A.F.F. TO CENTER OF INTERCOM VERTICAL ORIENTATION. PROVIDE PLENUM RATED CABLE.
10. POWER TRANSFER; PROVIDE 3/4" CONDUIT TO POWER TRANSFER DEVICE.



DOOR HARDWARE DOUBLE DOOR ACCESS CONTROL ROUGH-IN DIAGRAM

NO SCALE

GENERAL NOTES:

1. REFER TO ELECTRICAL FLOOR PLANS FOR INDIVIDUAL DOOR REQUIREMENTS AND DEVICE LOCATIONS.
2. PROVIDE BACK BOXES AND CONDUIT AS REQUIRED BY MANUFACTURER. COORDINATE EXACT REQUIREMENTS AND SCOPE OF WORK WITH OWNER AND ACCESS CONTROL CONTRACTOR.
3. DETAIL INDICATES ALL POSSIBLE DEVICES. COORDINATE WITH TSS DRAWINGS FOR DEVICE REQUIREMENTS AT EACH INDIVIDUAL DOOR. COORDINATE ALL WORK WITH HARDWARE CONTRACTOR.

(#) KEYED NOTES:

1. EXISTING ACCESS CONTROL CONTROL PANEL. CONFIRM LOCATION IN FIELD.
2. ACCESS CONTROL POWER SUPPLY. COORDINATE EXACT LOCATION AND QUANTITY WITH OWNER OR ACCESS CONTROL CONTRACTOR.
3. ACCESS CONTROL DEVICES INDICATED ON PLAN.
   - 3.1. CARD READER/CARD READER WITH KEYPAD – PROVIDE DOUBLE GANG JUNCTION BOX (4"X4") WITH SINGLE GANG MUD RING. INSTALL AT 48" A.F.F. ON CENTER VERTICAL ORIENTATION.
   - 3.2. SCRAMBLE PAD – PROVIDE (1) 1" CONDUIT TO SCRAMBLE PAD. PROVIDE JUNCTION BOX FROM MANUFACTURER (4.5"X3.5"X3.9"). INSTALL 48" A.F.F. TO CENTER OF VERTICAL ORIENTED DEVICE.
4. BALANCED MAGNETIC DOOR CONTACT/DOOR CONTACT – PROVIDE DOUBLE GANG (4"X4") JUNCTION BOX; GROUT AS REQUIRED WITH BEVELED DOUBLE GANG COVER PLATE – DUST BOX RACO 426 OR APPROXIMATE EQUAL WITH SINGLE GANG MUD RING. MOUNT HORIZONTALLY ON DOOR FRAME AND DOOR, SURFACED OR FLUSH MOUNTED.
5. NOT USED.
6. ELECTRIC STRIKE, PANIC HARDWARE; PROVIDE 3/4" CONDUIT TO DOOR FRAME. PROVIDE CIRCUIT AS INDICATED ON PLAN.
7. 120LB MAGNETIC LOCK LOCATED AT TOP OF DOOR; PROVIDE CONDUIT STUBBED ABOVE CEILING ON THE SECURE SIDE OF THE DOOR AND DOWN TO THE DOOR FRAME. NPSC SUPPLIED POWER SUPPLY UNIT IS LOCATED IN A SECURITY CLOSET. PROVIDE CIRCUIT AS INDICATED ON PLAN.
8. REQUEST TO EXIT; PROVIDE DOUBLE GANG JUNCTION BOX. COORDINATE EXACT LOCATION WITH DOOR HARDWARE SCHEDULE.
9. INTERCOM STATION:
   - 9.1. INTERCOM – PROVIDE DOUBLE GANG JUNCTION BOX WITH SINGLE GANG MUD RING. INSTALL AT 48"A.F.F. TO CENTER OF INTERCOM VERTICAL ORIENTATION. PROVIDE PLENUM RATED CABLE.
   - 9.2. INTERCOM WITH DURESS BUTTON – PROVIDE RACO 692 OR 697, OR STEEL CITY CW-335-C (THREE GANG MASONARY TYPE OR EQUAL) JUNCTION BOX. INSTALL 48"A.F.F. TO CENTER OF VERTICAL ORIENTED DEVICE.
   - 9.3. AUDIO/VIDEO INTERCOM – PROVIDE DOUBLE GANG JUNCTION BOX WITH SINGLE GANG MUD RING. INSTALL AT 48"A.F.F. TO CENTER OF INTERCOM VERTICAL ORIENTATION. PROVIDE PLENUM RATED CABLE.
10. POWER TRANSFER; PROVIDE 3/4" CONDUIT TO POWER TRANSFER DEVICE.

KEY PLAN

GRAPHIC SCALE

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

STAMP OR SEAL

STATE OF MICHIGAN
ERIC MICHAEL GRAETTINGER
ENGINEER
No. 6201052104
LICENSED PROFESSIONAL ENGINEER

OWNER IDENTIFICATION

General Services Administration
Public Buildings Service
Great Lakes
Design and Construction,
Project Delivery Division
John C. Kluczynski Federal Building
230 South Dearborn St.
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SMB
CHECKED BY	EMG
FLOOR NO.	N/A
DISCIPLINE	ELECTRICAL
PLAN TYPE	DETAILS
SHEET NUMBER AND FILENAME	E702

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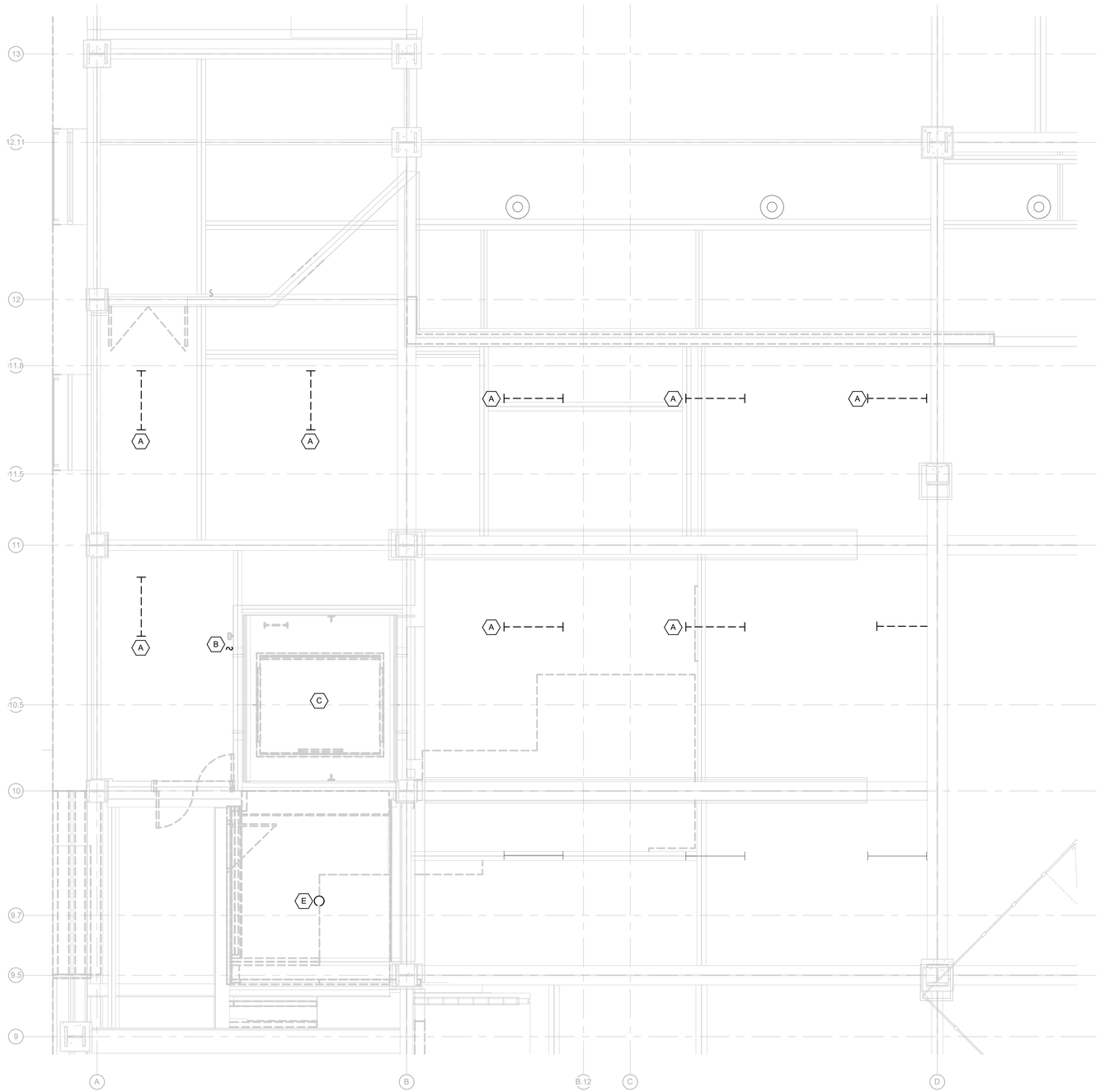


BASEMENT FLOOR - VEHICLE SALLYPORT LIGHTING DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

GENERAL DEMOLITION NOTES:

1 VISIT THE SITE PRIOR TO SUBMISSION OF BID TO EXAMINE THE EXISTING CONDITIONS AND THE EXTENT OF DEMOLITION WORK.

2 EXAMINE THE DRAWINGS OF OTHER TRADES AND BE FAMILIAR WITH THE DEMOLITION REQUIRED BY OTHER TRADES. PERFORM ALL INCIDENTAL ELECTRICAL DEMOLITION AND/OR RELOCATION REQUIRED TO FACILITATE THE DEMOLITION WORK OF OTHER TRADES, WHETHER OR NOT SPECIFICALLY INDICATED.

3 REMOVE LIGHTING FIXTURES AND ELECTRICAL DEVICES AS INDICATED ON PLAN WITH CROSS HATCHING. DEMOLITION SHALL INCLUDE, BUT NOT BE LIMITED TO, THOSE DEVICES SHOWN.

4 COORDINATE WITH NEW WORK PLANS, ONE LINE DIAGRAMS AND RISER DIAGRAMS FOR EXTENT OF DEMOLITION WORK

5 PROVIDE PROPER SUPPORT FOR EXISTING TO REMAIN CONDUITS AND BOXES WHERE EXISTING SUPPORT IS TO BE REMOVED. RE-ROUTE BRANCH CIRCUIT CONDUITS AND RELOCATE JUNCTION BOXES AS REQUIRED TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND SYSTEMS IN CEILING SPACES.

6 REMOVE ALL CONDUIT AND WIRE BACK TO THE SOURCE OR NEAREST UPSTREAM DEVICE REMAINING IN SERVICE.

7 MAINTAIN ELECTRICAL SERVICE TO ALL LIGHTING FIXTURES, DEVICES AND EQUIPMENT THAT ARE TO REMAIN. EXTEND CONDUIT AND WIRE AS REQUIRED WHERE DEMOLITION WORK AFFECTS ELECTRICAL SERVICE TO DOWNSTREAM LOADS THAT ARE TO REMAIN.

8 DISPOSE OF ALL MATERIALS OFF SITE AND INCLUDE ALL COSTS FOR DISPOSAL IN BID. ALL MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, INCLUDING TCLP TESTING, PROPER DISPOSAL AND/OR RECYCLING OF FLUORESCENT LAMPS.

9 RING OUT AND TAG ALL CIRCUITS AFFECTED BY THIS ALTERATION AT BOTH ENDS. MARK ALL UNUSED CIRCUIT BREAKERS "SPARE".

10 PROVIDE UPDATED TYPED-IN DIRECTORIES FOR ALL PANELS AFFECTED BY THIS ALTERATION.

11 PROVIDE UPDATED TYPED-IN DIRECTORIES FOR ALL PANELS AFFECTED BY THIS ALTERATION.

12 VERIFY ALL UNDERGROUND AND IN SLAB UTILITY LOCATIONS PRIOR TO SAW-CUTTING OR PENETRATING ANY FLOOR SLAB.

13 COORDINATE ANY SHUT DOWN OF EXISTING SERVICES AND EQUIPMENT THAT ARE REMAINING IN USE WITH THE OWNER'S REPRESENTATIVE. WHERE EXISTING BUILDING SERVICE IS REQUIRED TO BE SHUT DOWN, INCLUDE ALL ASSOCIATED OVERTIME COSTS TO PERFORM THIS WORK DURING WEEKENDS AND EVENINGS INCLUDE ALL COSTS FOR PROVIDING TEMPORARY POWER WHERE SHUT DOWNS MUST OCCUR FOR PERIODS LONGER THAN THESE HOURS. COORDINATE ELECTRICAL SHUT DOWNS WITH THE OWNER 72 HOURS PRIOR TO SHUT DOWN.

DEMOLITION KEYED NOTES:

A REMOVE LIGHTING FIXTURES AND ASSOCIATED BRANCH CIRCUITING BACK TO SOURCE OR NEAREST REMINING DEVICE.

B REMOVE LIGHTING CONTROL DEVICE.

C REMOVE LIGHTING FIXTURES AND CONTROL DEVICE WITHIN ELEVATOR PIT. BRANCH CIRCUIT WIRING TO REMAIN FOR REUSE.

D REMOVE LIGHTING FIXTURES. BRANCH CIRCUIT WIRING AND CONTROL DEVICES TO REMAIN FOR REUSE.

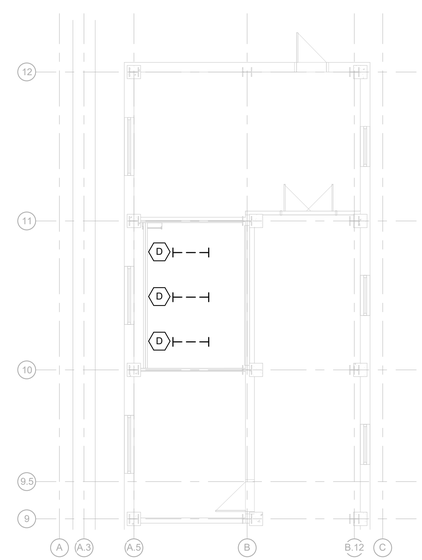
E RELOCATE EXISTING LIGHTING FIXTURE AS INDICATED IN NEW WORK PLAN.

F REMOVE EXISTING LIGHTING FIXTURES, LIGHTING CONTROLS AND ASSOCIATED BRANCH CIRCUITING BACK TO SOURCE. TYPICAL FOR ROOM.

G REMOVE EXISTING COVE FIXTURE ABOVE. BRANCH CIRCUITING TO BE REUSED IN NEW WORK.

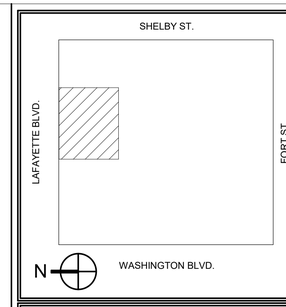
H REMOVE EXISTING LIGHT FIXTURE AND ASSOCIATED BRANCH CIRCUITING BACK TO SOURCE OR NEAREST REMAINING DEVICE. CONTROLS TO REMAIN FOR REMAINING FIXTURES UNLESS OTHERWISE INDICATED.

I REMOVE EXISTING EXIT SIGN AND ASSOCIATED BRANCH CIRCUITNG BACK TO SOURCE OR NEAREST REMAINING DEVICE.



PENTHOUSE - SECONDARY SPACE LIGHTING DEMOLITION PLAN

SCALE: 1/8" = 1'-0"



KEY PLAN

1/4"=1'-0" 0 4" 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

CONSULTANT IDENTIFICATION

STATE OF MICHIGAN
ERIC MICHAEL GRAETTINGER
ENGINEER
No. 6201052164
LICENSED PROFESSIONAL ENGINEER

STAMP OR SEAL

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SMB
CHECKED BY	EMG
FLOOR NO.	BASEMENT
DISCIPLINE	ELECTRICAL
PLAN TYPE	CEILING PLAN
SHEET NUMBER AND FILENAME	LD100

SHEET

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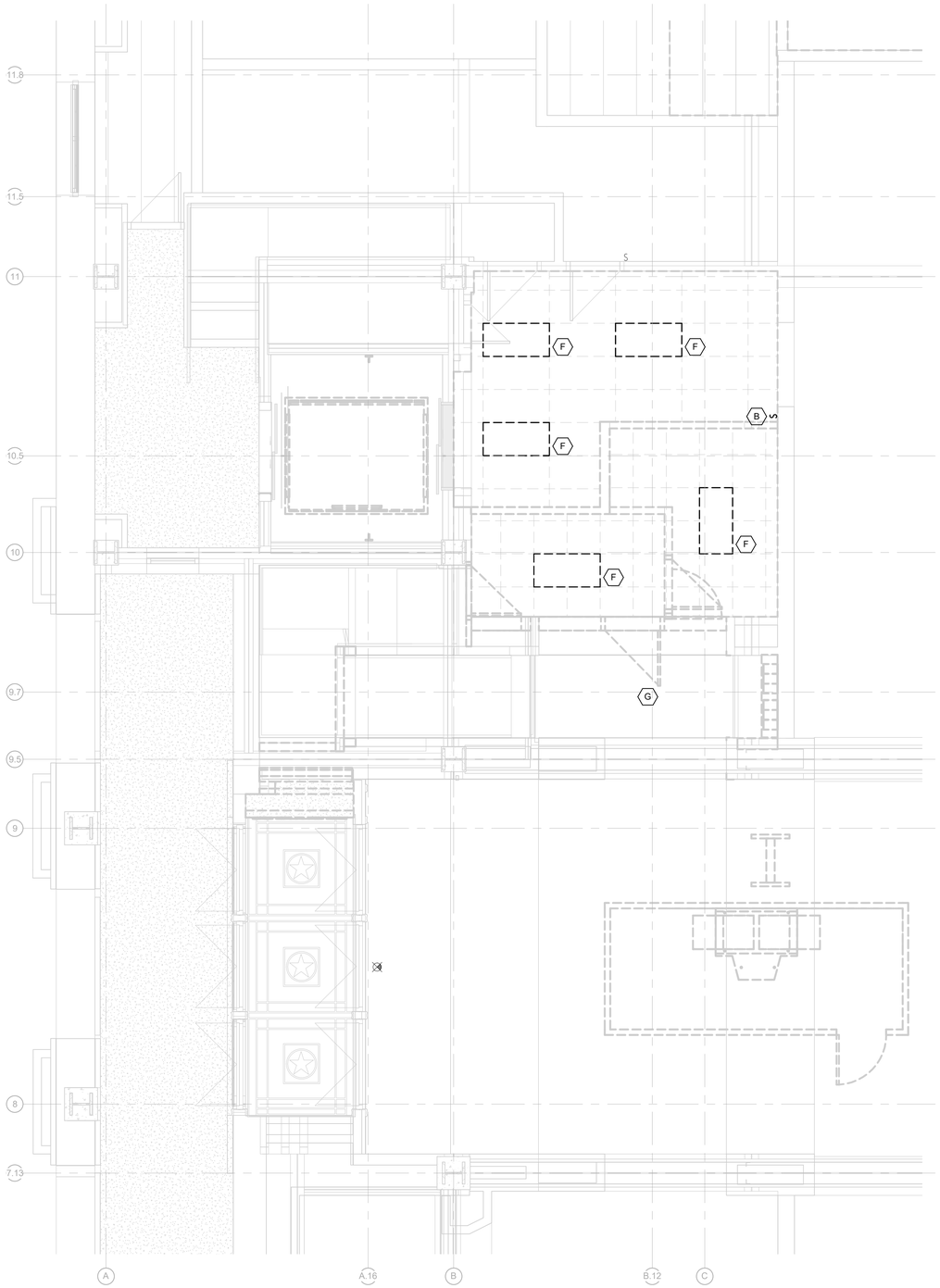


FIRST FLOOR - NORTH LAFAYETTE LIGHTING DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

GENERAL DEMOLITION NOTES:

1 VISIT THE SITE PRIOR TO SUBMISSION OF BID TO EXAMINE THE EXISTING CONDITIONS AND THE EXTENT OF DEMOLITION WORK.

2 EXAMINE THE DRAWINGS OF OTHER TRADES AND BE FAMILIAR WITH THE DEMOLITION REQUIRED BY OTHER TRADES. PERFORM ALL INCIDENTAL ELECTRICAL DEMOLITION AND/OR RELOCATION REQUIRED TO FACILITATE THE DEMOLITION WORK OF OTHER TRADES, WHETHER OR NOT SPECIFICALLY INDICATED.

3 REMOVE LIGHTING FIXTURES AND ELECTRICAL DEVICES AS INDICATED ON PLAN WITH CROSS HATCHING. DEMOLITION SHALL INCLUDE, BUT NOT BE LIMITED TO, THOSE DEVICES SHOWN.

4 COORDINATE WITH NEW WORK PLANS, ONE LINE DIAGRAMS AND RISER DIAGRAMS FOR EXTENT OF DEMOLITION WORK

5 PROVIDE PROPER SUPPORT FOR EXISTING TO REMAIN CONDUITS AND BOXES WHERE EXISTING SUPPORT IS TO BE REMOVED. RE-ROUTE BRANCH CIRCUIT CONDUITS AND RELOCATE JUNCTION BOXES AS REQUIRED TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND SYSTEMS IN CEILING SPACES.

6 REMOVE ALL CONDUIT AND WIRE BACK TO THE SOURCE OR NEAREST UPSTREAM DEVICE REMAINING IN SERVICE.

7 MAINTAIN ELECTRICAL SERVICE TO ALL LIGHTING FIXTURES, DEVICES AND EQUIPMENT THAT ARE TO REMAIN. EXTEND CONDUIT AND WIRE AS REQUIRED WHERE DEMOLITION WORK AFFECTS ELECTRICAL SERVICE TO DOWNSTREAM LOADS THAT ARE TO REMAIN.

8 DISPOSE OF ALL MATERIALS OFF SITE AND INCLUDE ALL COSTS FOR DISPOSAL IN BID. ALL MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, INCLUDING TCLP TESTING, PROPER DISPOSAL AND/OR RECYCLING OF FLUORESCENT LAMPS.

9 RING OUT AND TAG ALL CIRCUITS AFFECTED BY THIS ALTERATION AT BOTH ENDS. MARK ALL UNUSED CIRCUIT BREAKERS "SPARE".

10 PROVIDE UPDATED TYPED-IN DIRECTORIES FOR ALL PANELS AFFECTED BY THIS ALTERATION.

11 PROVIDE UPDATED TYPED-IN DIRECTORIES FOR ALL PANELS AFFECTED BY THIS ALTERATION.

12 VERIFY ALL UNDERGROUND AND IN SLAB UTILITY LOCATIONS PRIOR TO SAW-CUTTING OR PENETRATING ANY FLOOR SLAB.

13 COORDINATE ANY SHUT DOWN OF EXISTING SERVICES AND EQUIPMENT THAT ARE REMAINING IN USE WITH THE OWNER'S REPRESENTATIVE. WHERE EXISTING BUILDING SERVICE IS REQUIRED TO BE SHUT DOWN, INCLUDE ALL ASSOCIATED OVERTIME COSTS TO PERFORM THIS WORK DURING WEEKENDS AND EVENINGS INCLUDE ALL COSTS FOR PROVIDING TEMPORARY POWER WHERE SHUT DOWNS MUST OCCUR FOR PERIODS LONGER THAN THESE HOURS. COORDINATE ELECTRICAL SHUT DOWNS WITH THE OWNER 72 HOURS PRIOR TO SHUT DOWN.

DEMOLITION KEYED NOTES:

A REMOVE LIGHTING FIXTURES AND ASSOCIATED BRANCH CIRCUITING BACK TO SOURCE OR NEAREST REMINING DEVICE.

B REMOVE LIGHTING CONTROL DEVICE.

C REMOVE LIGHTING FIXTURES AND CONTROL DEVICE WITHIN ELEVATOR PIT. BRANCH CIRCUIT WIRING TO REMAIN FOR REUSE.

D REMOVE LIGHTING FIXTURES. BRANCH CIRCUIT WIRING AND CONTROL DEVICES TO REMAIN FOR REUSE.

E RELOCATE EXISTING LIGHTING FIXTURE AS INDICATED IN NEW WORK PLAN.

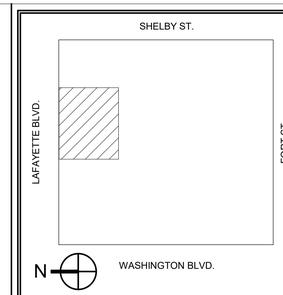
F REMOVE EXISTING LIGHTING FIXTURES, LIGHTING CONTROLS AND ASSOCIATED BRANCH CIRCUITING BACK TO SOURCE. TYPICAL FOR ROOM.

G REMOVE EXISTING COVE FIXTURE ABOVE. BRANCH CIRCUITING TO BE REUSED IN NEW WORK.

H REMOVE EXISTING LIGHT FIXTURE AND ASSOCIATED BRANCH CIRCUITING BACK TO SOURCE OR NEAREST REMAINING DEVICE. CONTROLS TO REMAIN FOR REMAINING FIXTURES UNLESS OTHERWISE INDICATED.

I REMOVE EXISTING EXIT SIGN AND ASSOCIATED BRANCH CIRCUITNG BACK TO SOURCE OR NEAREST REMAINING DEVICE.

KEY PLAN



GRAPHIC SCALE

1/4"=1'-0" 0 4' 8'

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

STAMP OR SEAL

STATE OF MICHIGAN
ERIC MICHAEL GRAETTINGER
ENGINEER
No. 6201052104
LICENSED PROFESSIONAL ENGINEER

OWNER IDENTIFICATION

GSA
General Services Administration
Public Buildings Service
Great Lakes

Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SMB
CHECKED BY	EMG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ELECTRICAL
PLAN TYPE	CEILING PLAN
SHEET NUMBER AND FILENAME	LD101

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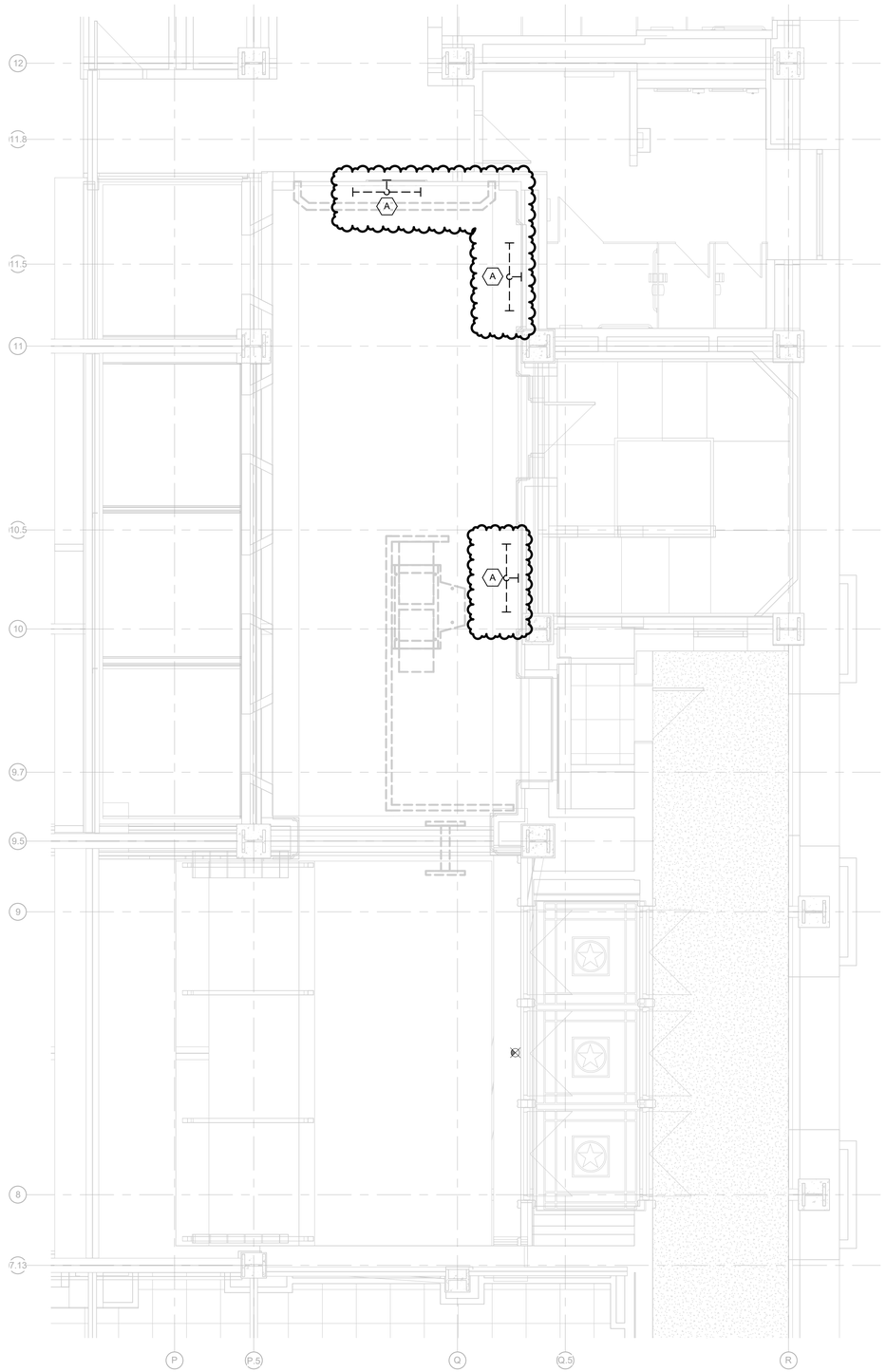

FIRST FLOOR - SOUTH FORT STREET LIGHTING DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

GENERAL DEMOLITION NOTES:

1 VISIT THE SITE PRIOR TO SUBMISSION OF BID TO EXAMINE THE EXISTING CONDITIONS AND THE EXTENT OF DEMOLITION WORK.

2 EXAMINE THE DRAWINGS OF OTHER TRADES AND BE FAMILIAR WITH THE DEMOLITION REQUIRED BY OTHER TRADES. PERFORM ALL INCIDENTAL ELECTRICAL DEMOLITION AND/OR RELOCATION REQUIRED TO FACILITATE THE DEMOLITION WORK OF OTHER TRADES, WHETHER OR NOT SPECIFICALLY INDICATED.

3 REMOVE LIGHTING FIXTURES AND ELECTRICAL DEVICES AS INDICATED ON PLAN WITH CROSS HATCHING. DEMOLITION SHALL INCLUDE, BUT NOT BE LIMITED TO, THOSE DEVICES SHOWN.

4 COORDINATE WITH NEW WORK PLANS, ONE LINE DIAGRAMS AND RISER DIAGRAMS FOR EXTENT OF DEMOLITION WORK

5 PROVIDE PROPER SUPPORT FOR EXISTING TO REMAIN CONDUITS AND BOXES WHERE EXISTING SUPPORT IS TO BE REMOVED. RE-ROUTE BRANCH CIRCUIT CONDUITS AND RELOCATE JUNCTION BOXES AS REQUIRED TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND SYSTEMS IN CEILING SPACES.

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8 DISPOSE OF ALL MATERIALS OFF SITE AND INCLUDE ALL COSTS FOR DISPOSAL IN BID. ALL MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, INCLUDING TCLP TESTING, PROPER DISPOSAL AND/OR RECYCLING OF FLUORESCENT LAMPS.

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10 PROVIDE UPDATED TYPED-IN DIRECTORIES FOR ALL PANELS AFFECTED BY THIS ALTERATION.

11 PROVIDE UPDATED TYPED-IN DIRECTORIES FOR ALL PANELS AFFECTED BY THIS ALTERATION.

12 VERIFY ALL UNDERGROUND AND IN SLAB UTILITY LOCATIONS PRIOR TO SAW-CUTTING OR PENETRATING ANY FLOOR SLAB.

13 COORDINATE ANY SHUT DOWN OF EXISTING SERVICES AND EQUIPMENT THAT ARE REMAINING IN USE WITH THE OWNER'S REPRESENTATIVE. WHERE EXISTING BUILDING SERVICE IS REQUIRED TO BE SHUT DOWN, INCLUDE ALL ASSOCIATED OVERTIME COSTS TO PERFORM THIS WORK DURING WEEKENDS AND EVENINGS INCLUDE ALL COSTS FOR PROVIDING TEMPORARY POWER WHERE SHUT DOWNS MUST OCCUR FOR PERIODS LONGER THAN THESE HOURS. COORDINATE ELECTRICAL SHUT DOWNS WITH THE OWNER 72 HOURS PRIOR TO SHUT DOWN.

DEMOLITION KEYED NOTES:

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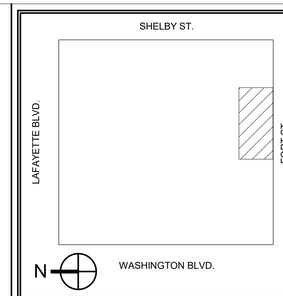
KEY PLAN



GRAPHIC SCALE

1/4"=1'-0" 0 4" 8"

REVISION BLOCK

MARK	DATE	DESCRIPTION
1	2/15/2023	100% REVISION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
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PBA Project No.: 2021-0206

STAMP OR SEAL

STATE OF MICHIGAN
ERIC MICHAEL GRAETTINGER
ENGINEER
No. 6201052164
LICENSED PROFESSIONAL ENGINEER

OWNER IDENTIFICATION

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDINGS

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SMB
CHECKED BY	EMG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ELECTRICAL
PLAN TYPE	CEILING PLAN
SHEET NUMBER AND FILENAME	LD102

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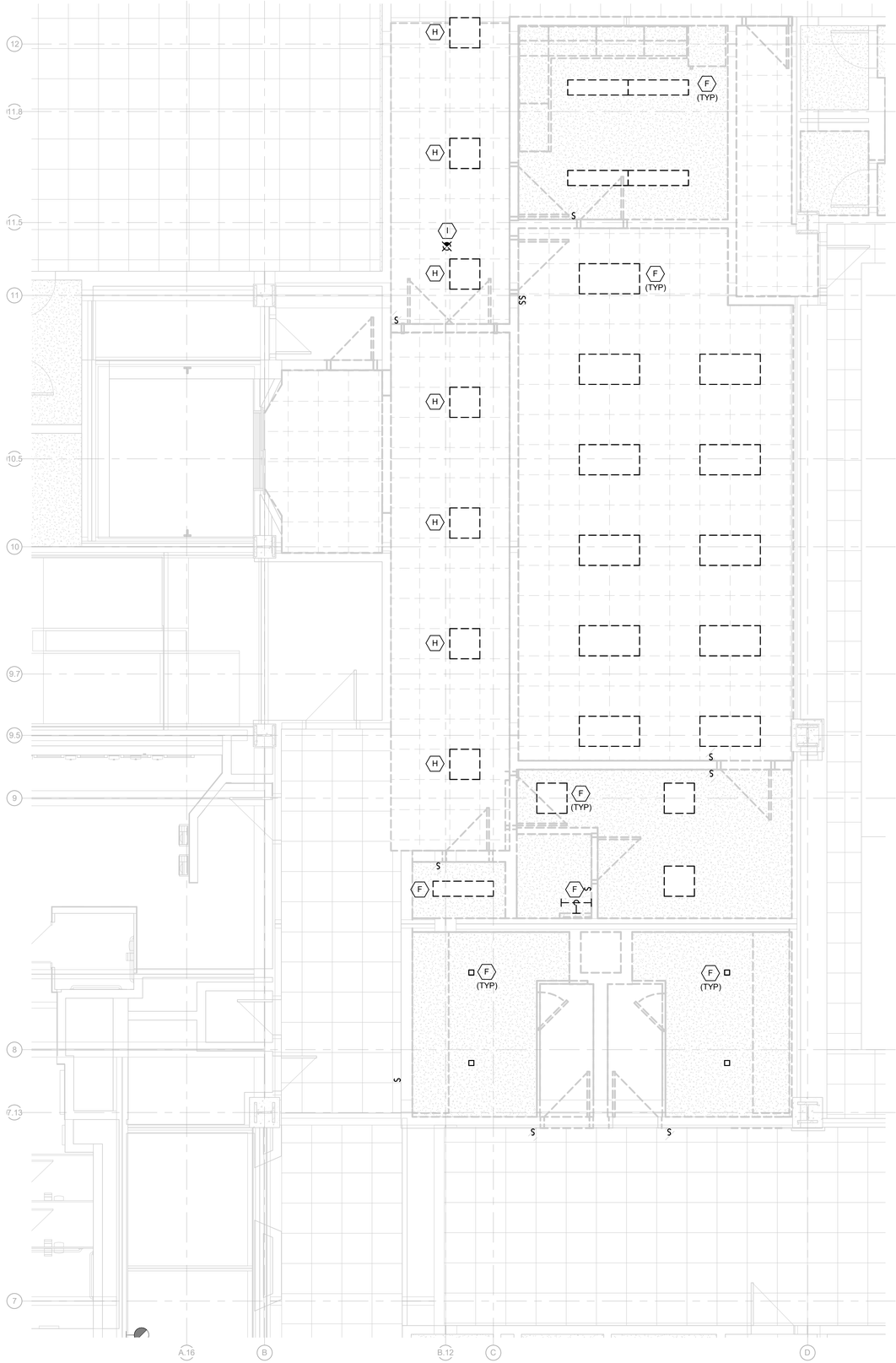

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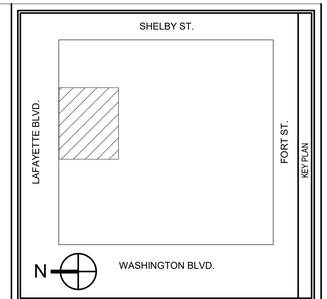
SECOND FLOOR - OPTION 1 LIGHTING DEMOLITION PLAN

SCALE: 1/4" = 1'-0"



GRAPHIC SCALE

1/4"=1'-0" 0 4" 8"

REVISION BLOCK

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CONTRACT

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DELIVER ORDER NO.	47PF0021F0822
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DESIGNER IDENTIFICATION

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816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

STAMP OR SEAL

STATE OF MICHIGAN
ERIC MICHAEL GRAETTINGER
ENGINEER
No. 6201052164
LICENSED PROFESSIONAL ENGINEER

OWNER IDENTIFICATION

General Services Administration
Public Buildings Service
Great Lakes

Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
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Chicago, IL 60604

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BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SMB
CHECKED BY	EMG
FLOOR NO.	SECOND FLOOR
DISCIPLINE	ELECTRICAL
PLAN TYPE	CEILING PLAN
SHEET NUMBER AND FILENAME	LD105

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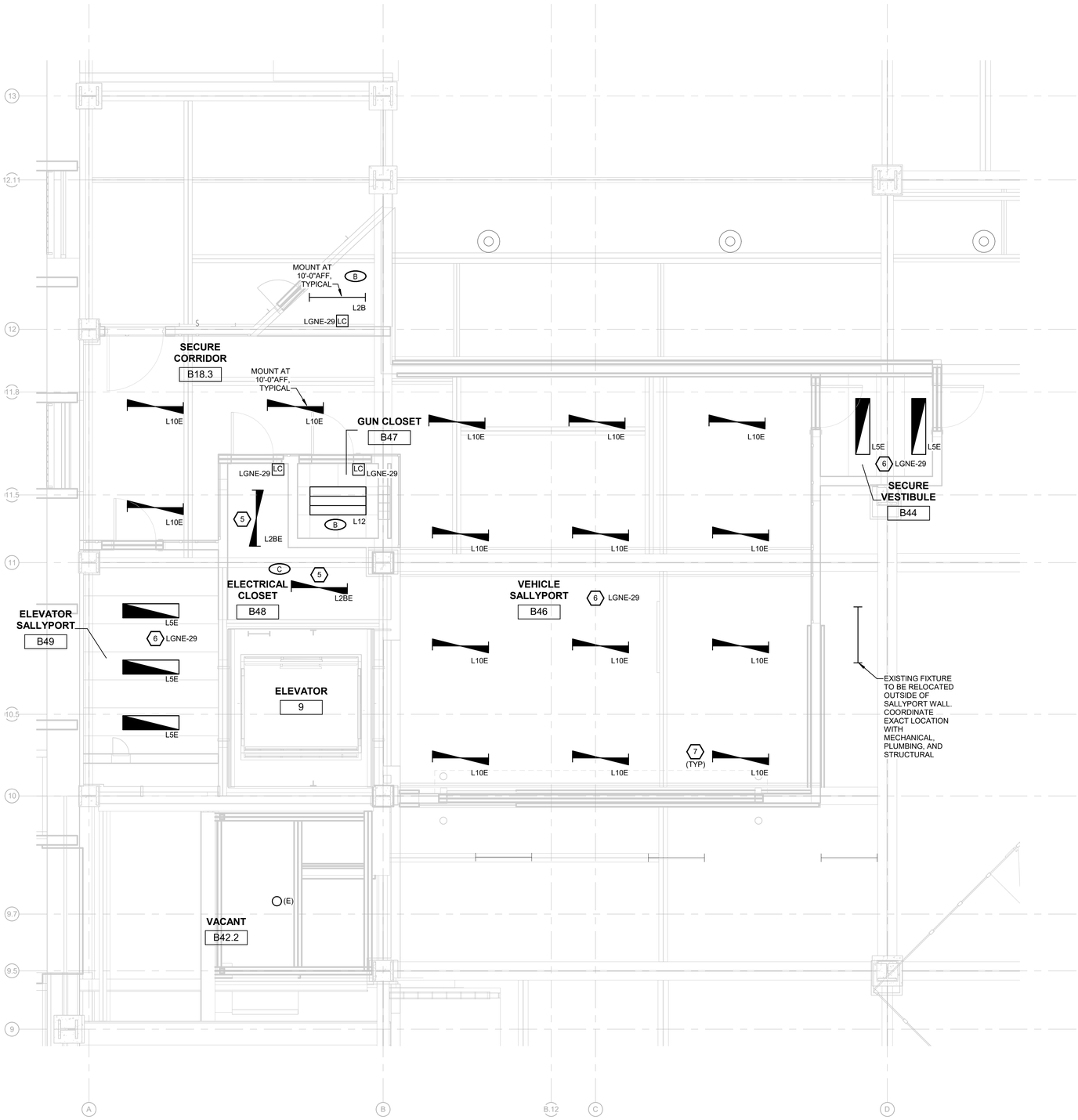


BASEMENT FLOOR - VEHICLE SALLYPORT LIGHTING PLAN

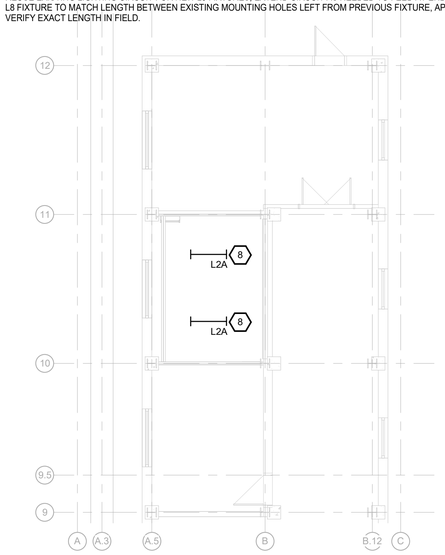
SCALE: 1/4" = 1'-0"

LIGHTING GENERAL NOTES:

1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
2. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
3. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
4. CIRCUIT EXIT LIGHT FIXTURES TO ADJACENT NORMAL POWER CIRCUIT IN AREA SERVED.
5. REFER TO DEMOLITION PLANS FOR AREAS OF NEW WORK ASSOCIATED WITH CEILING REMOVAL AND REPLACEMENT.
6. WHERE APPLICABLE, EXISTING CONDUIT AND CIRCUITING TO BE REUSED FOR NEW LIGHT FIXTURES.
7. WHEN NECESSARY TO ACCOMODATE FIXTURE ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS, CEILING PATCHING SHALL BE PERFORMED TO MATCH ADJACENT UNDISTURBED CEILING.
8. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
9. THE FIRE ALARM DEVICES SHOWN ON PLAN ARE A PARTIAL REPRESENTATION OF THE FIRE ALARM SYSTEM. PROVIDE THE DESIGN AND INSTALLATION OF A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM IN ACCORDANCE WITH THE SPECIFICATIONS, DRAWINGS, AND ALL APPLICABLE CODES. THE FIRE ALARM VENDOR SHALL PROVIDE LAYOUT DRAWINGS INDICATING THE REQUIRED QUANTITIES AND LOCATIONS OF MANUAL PULL STATIONS, NOTIFICATION APPLIANCES, SMOKE AND HEAT DETECTORS, CONTROL MODULES, INTERFACE MODULES, MODULES FOR SPRINKLER FLOW AND TAMPER SWITCHES, ALL CONTROL PANELS, POWER SUPPLIES, AND ADDITIONAL DEVICES AND EQUIPMENT REQUIRED. COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL FINISHES AND REFLECTED CEILING PLANS, INCLUDING ADDITIONAL SMOKE AND HEAT DETECTORS REQUIRED FOR NON-SMOOTH CEILING APPLICATIONS. INCLUDE ALLOWANCES FOR ADJUSTMENT OF DEVICES BY THE ARCHITECT AT THE TIME OF SUBMITTAL TO COORDINATE WITH BUILDING FINISHES AND OTHER CEILING ELEMENTS.
10. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
11. ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC. AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.

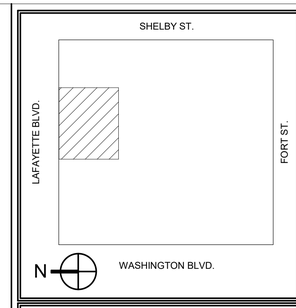
CONSTRUCTION KEYED NOTES:

1. TIE NEW LIGHTING FIXTURE INTO EXSTING LIGHTING CONTROLS.
2. PROVIDE (1) MOLDED POLYCARBONATE ENCLOSURE FOR EACH LIGHTED RAIL TO HOUSE 2 DRIVERS REQUIRED FOR RAIL LIGHTING, LOCATE IN BASEMENT WITHIN 29' OF RAIL CONNECTION POINT. PROVIDE 16AWG WIRE GAUGE. CONCEAL CONDUIT WITHIN RAMP AND STUB UP AT POLE CONNECTION. PROVIDE INSTALLATION SHOP DRAWINGS OF HANDRAIL FOR REVIEW.
3. LIGHTED HANDRAIL FIXTURE TYPE L9. COORDINATE EXACT LOCATIONS AND HEIGHTS WITH ARCHITECTURAL ELEVATIONS. PROVIDE INSTALLATION SHOP DRAWINGS OF HANDRAIL FOR REVIEW.
4. REPLACE COVE LIGHTING IN COVE ABOVE WITH FIXTURE TYPE L4 TAPE LIGHT. VERIFY EXACT LENGTHS REQUIRED IN FIELD.
5. EMERGENCY LIGHTING NOTATED WITH E SUFFIX. EMERGENCY LIGHTING TO BE CIRCUITED TO EXISTING AREA EMERGENCY LIGHTING CIRCUIT. VERIFY IN FIELD.
6. ALL LIGHTING IN PRISONER AREAS SHALL BE CONTROLLED FROM COMMAND AND CONTROL CENTER. CONTROLS TO BE MANUAL ON/OFF. CIRCUIT NEW FIXTURES TO INDICATED NORMAL CIRCUIT. ALL LIGHTING IN PRISONER AREAS SHALL INCLUDE INTEGRAL EMERGENCY BATTERY BACKUP.
7. COORDINATE PLACEMENT OF L10E FIXTURES WITH EXISTING AND NEW PIPING, DUCTWORK, STRUCTURE, AND CONDUIT AS REQUIRED. MAINTAIN FOOTCANDLE LEVEL OF 46 THROUGHOUT SALLYPORT AREA.
8. CONNECT NEW LIGHTING FIXTURES TO EXISTING LIGHTING BRANCH CIRCUIT.
9. CENTER TYPE L11 FIXTURE WITHIN SLANTED CEILING. AIM FIXTURE IN FIELD TO OPTIMAL ANGLE TO LIGHT LIFT BELOW.
10. LIGHTED SIGNAGE, REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS. PROVIDE TYPE L13 FIXTURE TYPE ON BOTH TOP AND BOTTOM OF SIGN. CONDUIT AND WRING TO BE ROUTED UNDER RAMP AND TO ACCESS PANEL LOCATED AT RAMP WALL BEHIND SIGNAGE. PROVIDE INSTALLATION SHOP DRAWINGS OF LIGHTED SIGNAGE FOR REVIEW.
11. PROVIDE NEW EXIT SIGN, MATCH EXISTING EXIT SIGN STYLE, AND PROVIDE BATTERY BACKUP.
12. RELOCATE EXISTING LIGHT SWITCH FOR CONTROLLING PUBLIC-SIDE LIGHTS AT TRANSACTION WINDOW APPROXIMATELY 18" WEST OF ITS EXISTING LOCATION ON THE NORTH WALL OF THE USMS COMMAND AND CONTROL CENTER.
13. REUSE EXISTING LIGHTING CIRCUIT FOR NEW L8 FIXTURES; EXTEND CIRCUIT AS NEEDED TO FEED AT END OF FIXTURE. LENGTH OF L8 FIXTURE TO MATCH LENGTH BETWEEN EXISTING MOUNTING HOLES LEFT FROM PREVIOUS FIXTURE, APPROXIMATELY 3FT, VERIFY EXACT LENGTH IN FIELD.



PENTHOUSE - SECONDARY SPACE LIGHTING PLAN

SCALE: 1/8" = 1'-0"



KEY PLAN

GRAPHIC SCALE: 1/4"=1'-0" 0 4' 8'

MARK	DATE	DESCRIPTION

REVISION BLOCK

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CONST. CONTRACT NO.	

CONTRACT

DESIGNER IDENTIFICATION
FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION
Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No.: 2021-0206

STAMP OR SEAL
STATE OF MICHIGAN
ERIC MICHAEL GRAETTINGER
ENGINEER
No. 6201052104
LICENSED PROFESSIONAL ENGINEER

OWNER IDENTIFICATION
GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SMB
CHECKED BY	EMG
FLOOR NO.	BASEMENT
DISCIPLINE	ELECTRICAL
PLAN TYPE	CEILING PLAN
SHEET NUMBER AND FILENAME	L100

SHEET

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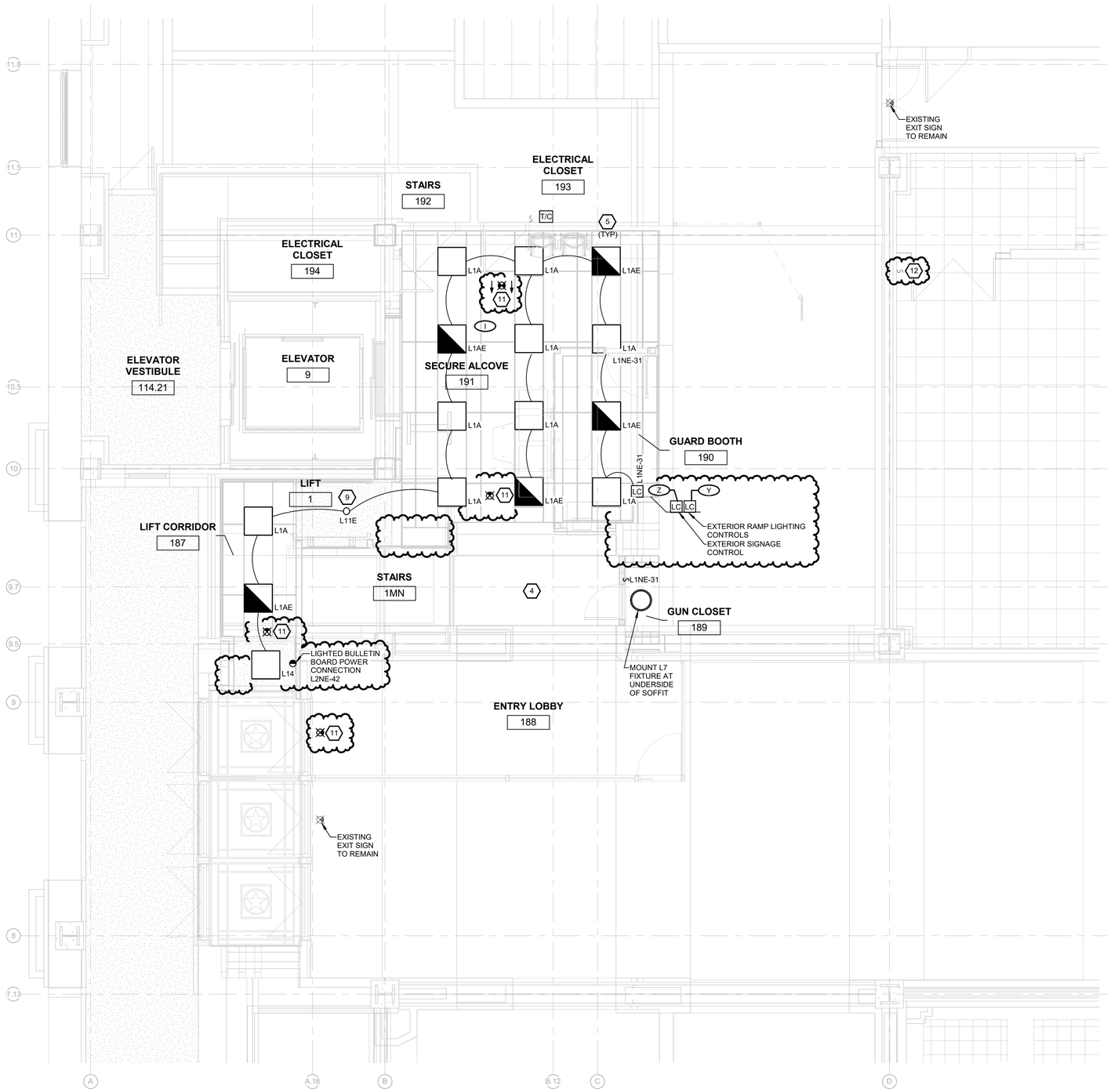


FIRST FLOOR - NORTH LAFAYETTE LIGHTING PLAN

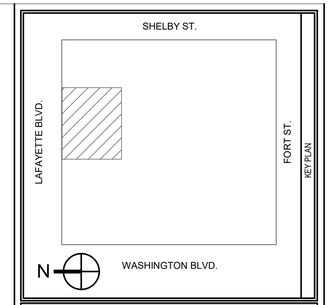
SCALE: 1/4" = 1'-0"

ELECTRICAL GENERAL NOTES:

1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
2. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
3. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
4. CIRCUIT EXIT LIGHT FIXTURES TO ADJACENT NORMAL POWER CIRCUIT IN AREA SERVED.
5. REFER TO DEMOLITION PLANS FOR AREAS OF NEW WORK ASSOCIATED WITH CEILING REMOVAL AND REPLACEMENT.
6. WHERE APPLICABLE, EXISTING CONDUIT AND CIRCUITING TO BE REUSED FOR NEW LIGHT FIXTURES.
7. WHEN NECESSARY TO ACCOMODATE FIXTURE ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS, CEILING PATCHING SHALL BE PERFORMED TO MATCH ADJACENT UNDISTURBED CEILING.
8. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
9. THE FIRE ALARM DEVICES SHOWN ON PLAN ARE A PARTIAL REPRESENTATION OF THE FIRE ALARM SYSTEM. PROVIDE THE DESIGN AND INSTALLATION OF A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM IN ACCORDANCE WITH THE SPECIFICATIONS, DRAWINGS, AND ALL APPLICABLE CODES. THE FIRE ALARM VENDOR SHALL PROVIDE LAYOUT DRAWINGS INDICATING THE REQUIRED QUANTITIES AND LOCATIONS OF MANUAL PULL STATIONS, NOTIFICATION APPLIANCES, SMOKE AND HEAT DETECTORS, CONTROL MODULES, INTERFACE MODULES, MODULES FOR SPRINKLER FLOW AND TAMPER SWITCHES, ALL CONTROL PANELS, POWER SUPPLIES, AND ADDITIONAL DEVICES AND EQUIPMENT REQUIRED. COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL FINISHES AND REFLECTED CEILING PLANS, INCLUDING ADDITIONAL SMOKE AND HEAT DETECTORS REQUIRED FOR NON-SMOOTH CEILING APPLICATIONS. INCLUDE ALLOWANCES FOR ADJUSTMENT OF DEVICES BY THE ARCHITECT AT THE TIME OF SUBMITTAL TO COORDINATE WITH BUILDING FINISHES AND OTHER CEILING ELEMENTS.
10. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
11. ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC. AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.

CONSTRUCTION KEYED NOTES:

1. TIE NEW LIGHTING FIXTURE INTO EXSTING LIGHTING CONTROLS.
2. PROVIDE (1) MOLDED POLYCARBONATE ENCLOSURE FOR EACH LIGHTED RAIL TO HOUSE 2 DRIVERS REQUIRED FOR RAIL LIGHTING, LOCATE IN BASEMENT WITHIN 29' OF RAIL CONNECTION POINT. PROVIDE 16AWG WIRE GAUGE. CONCEAL CONDUIT WITHIN RAMP AND STUB UP AT POLE CONNECTION. PROVIDE INSTALLATION SHOP DRAWINGS OF HANDRAIL FOR REVIEW.
3. LIGHTED HANDRAIL FIXTURE TYPE L9. COORDINATE EXACT LOCATIONS AND HEIGHTS WITH ARCHITECTURAL ELEVATIONS. PROVIDE INSTALLATION SHOP DRAWINGS OF HANDRAIL FOR REVIEW.
4. REPLACE COVE LIGHTING IN COVE ABOVE WITH FIXTURE TYPE L4 TAPE LIGHT. VERIFY EXACT LENGTHS REQUIRED IN FIELD.
5. EMERGENCY LIGHTING NOTATED WITH E SUFFIX. EMERGENCY LIGHTING TO BE CIRCUITED TO EXISTING AREA EMERGENCY LIGHTING CIRCUIT. VERIFY IN FIELD.
6. ALL LIGHTING IN PRISONER AREAS SHALL BE CONTROLLED FROM COMMAND AND CONTROL CENTER. CONTROLS TO BE MANUAL ON/OFF. CIRCUIT NEW FIXTURES TO INDICATED NORMAL CIRCUIT. ALL LIGHTING IN PRISONER AREAS SHALL INCLUDE INTEGRAL EMERGENCY BATTERY BACKUP.
7. COORDINATE PLACEMENT OF L10E FIXTURES WITH EXISTING AND NEW PIPING, DUCTWORK, STRUCTURE, AND CONDUIT AS REQUIRED. MAINTAIN FOOTCANDLE LEVEL OF 46 THROUGHOUT SALLYPORT AREA.
8. CONNECT NEW LIGHTING FIXTURES TO EXISTING LIGHTING BRANCH CIRCUIT.
9. CENTER TYPE L11 FIXTURE WITHIN SLANTED CEILING. AIM FIXTURE IN FIELD TO OPTIMAL ANGLE TO LIGHT LIFT BELOW.
10. LIGHTED SIGNAGE, REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS. PROVIDE TYPE L13 FIXTURE TYPE ON BOTH TOP AND BOTTOM OF SIGN. CONDUIT AND WRING TO BE ROUTED UNDER RAMP AND TO ACCESS PANEL LOCATED AT RAMP WALL BEHIND SIGNAGE. PROVIDE INSTALLATION SHOP DRAWINGS OF LIGHTED SIGNAGE FOR REVIEW.
11. PROVIDE NEW EXIT SIGN, MATCH EXISTING EXIT SIGN STYLE, AND PROVIDE BATTERY BACKUP.
12. RELOCATE EXISTING LIGHT SWITCH FOR CONTROLLING PUBLIC-SIDE LIGHTS AT TRANSACTION WINDOW APPROXIMATELY 18" WEST OF ITS EXISTING LOCATION ON THE NORTH WALL OF THE USMS COMMAND AND CONTROL CENTER.
13. REUSE EXISTING LIGHTING CIRCUIT FOR NEW L8 FIXTURES; EXTEND CIRCUIT AS NEEDED TO FEED AT END OF FIXTURE. LENGTH OF L8 FIXTURE TO MATCH LENGTH BETWEEN EXISTING MOUNTING HOLES LEFT FROM PREVIOUS FIXTURE, APPROXIMATELY 3FT, VERIFY EXACT LENGTH IN FIELD.



KEY PLAN

GRAPHIC SCALE: 1/4"=1'-0" 0 4' 8'

REVISION BLOCK

MARK	DATE	DESCRIPTION
1	2/15/2023	100% REVISION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

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BUILDING

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CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SMB
CHECKED BY	EMG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ELECTRICAL
PLAN TYPE	CEILING PLAN
SHEET NUMBER AND FILENAME	L101

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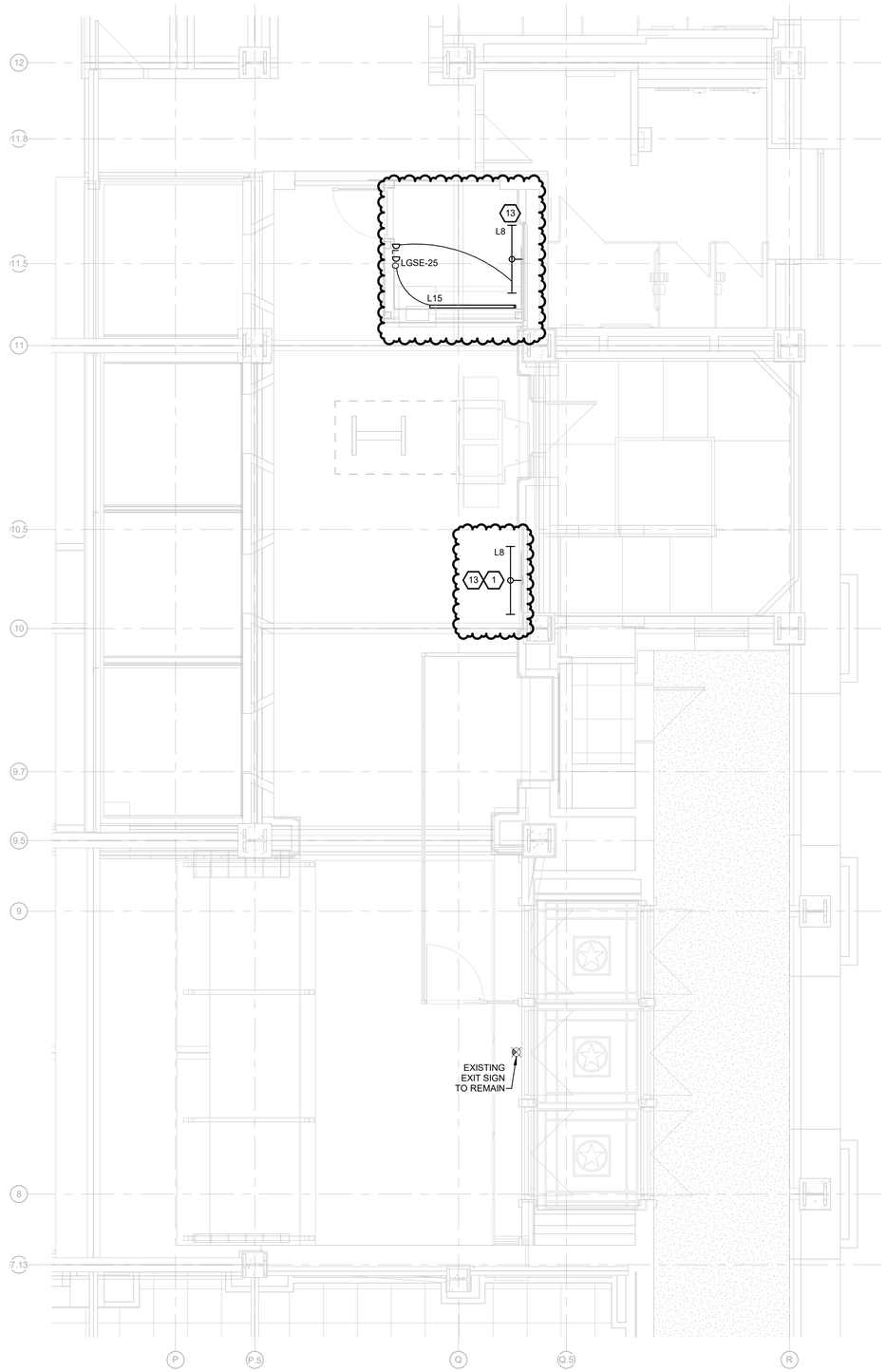

FIRST FLOOR - SOUTH FORT STREET LIGHTING PLAN

SCALE: 1/4" = 1'-0"

LIGHTING GENERAL NOTES:

1 THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.

2 PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.

3 COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.

4 CIRCUIT EXIT LIGHT FIXTURES TO ADJACENT NORMAL POWER CIRCUIT IN AREA SERVED.

5 REFER TO DEMOLITION PLANS FOR AREAS OF NEW WORK ASSOCIATED WITH CEILING REMOVAL AND REPLACEMENT.

6 WHERE APPLICABLE, EXISTING CONDUIT AND CIRCUITING TO BE REUSED FOR NEW LIGHT FIXTURES.

7 WHEN NECESSARY TO ACCOMODATE FIXTURE ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS, CEILING PATCHING SHALL BE PERFORMED TO MATCH ADJACENT UNDISTURBED CEILING.

8 REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.

9 THE FIRE ALARM DEVICES SHOWN ON PLAN ARE A PARTIAL REPRESENTATION OF THE FIRE ALARM SYSTEM. PROVIDE THE DESIGN AND INSTALLATION OF A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM IN ACCORDANCE WITH THE SPECIFICATIONS, DRAWINGS, AND ALL APPLICABLE CODES. THE FIRE ALARM VENDOR SHALL PROVIDE LAYOUT DRAWINGS INDICATING THE REQUIRED QUANTITIES AND LOCATIONS OF MANUAL PULL STATIONS, NOTIFICATION APPLIANCES, SMOKE AND HEAT DETECTORS, CONTROL MODULES, INTERFACE MODULES, MODULES FOR SPRINKLER FLOW AND TAMPER SWITCHES, ALL CONTROL PANELS, POWER SUPPLIES, AND ADDITIONAL DEVICES AND EQUIPMENT REQUIRED. COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL FINISHES AND REFLECTED CEILING PLANS, INCLUDING ADDITIONAL SMOKE AND HEAT DETECTORS REQUIRED FOR NON-SMOOTH CEILING APPLICATIONS. INCLUDE ALLOWANCES FOR ADJUSTMENT OF DEVICES BY THE ARCHITECT AT THE TIME OF SUBMITTAL TO COORDINATE WITH BUILDING FINISHES AND OTHER CEILING ELEMENTS.

10 REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.

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CONSTRUCTION KEYED NOTES:

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3 LIGHTED HANDRAIL FIXTURE TYPE L9. COORDINATE EXACT LOCATIONS AND HEIGHTS WITH ARCHITECTURAL ELEVATIONS. PROVIDE INSTALLATION SHOP DRAWINGS OF HANDRAIL FOR REVIEW.

4 REPLACE COVE LIGHTING IN COVE ABOVE WITH FIXTURE TYPE L4 TAPE LIGHT. VERIFY EXACT LENGTHS REQUIRED IN FIELD.

5 EMERGENCY LIGHTING NOTATED WITH E SUFFIX. EMERGENCY LIGHTING TO BE CIRCUITED TO EXISTING AREA EMERGENCY LIGHTING CIRCUIT. VERIFY IN FIELD.

6 ALL LIGHTING IN PRISONER AREAS SHALL BE CONTROLLED FROM COMMAND AND CONTROL CENTER. CONTROLS TO BE MANUAL ON/OFF. CIRCUIT NEW FIXTURES TO INDICATED NORMAL CIRCUIT. ALL LIGHTING IN PRISONER AREAS SHALL INCLUDE INTEGRAL EMERGENCY BATTERY BACKUP.

7 COORDINATE PLACEMENT OF L10E FIXTURES WITH EXISTING AND NEW PIPING, DUCTWORK, STRUCTURE, AND CONDUIT AS REQUIRED. MAINTAIN FOOTCANDLE LEVEL OF 46 THROUGHOUT SALLYPORT AREA.

8 CONNECT NEW LIGHTING FIXTURES TO EXISTING LIGHTING BRANCH CIRCUIT.

9 CENTER TYPE L11 FIXTURE WITHIN SLANTED CEILING. AIM FIXTURE IN FIELD TO OPTIMAL ANGLE TO LIGHT LIFT BELOW.

10 LIGHTED SIGNAGE, REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS. PROVIDE TYPE L13 FIXTURE TYPE ON BOTH TOP AND BOTTOM OF SIGN. CONDUIT AND WRING TO BE ROUTED UNDER RAMP AND TO ACCESS PANEL LOCATED AT RAMP WALL BEHIND SIGNAGE. PROVIDE INSTALLATION SHOP DRAWINGS OF LIGHTED SIGNAGE FOR REVIEW.

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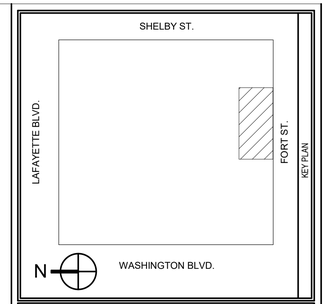
12 RELOCATE EXISTING LIGHT SWITCH FOR CONTROLLING PUBLIC-SIDE LIGHTS AT TRANSACTION WINDOW APPROXIMATELY 18" WEST OF ITS EXISTING LOCATION ON THE NORTH WALL OF THE USMS COMMAND AND CONTROL CENTER.

13 REUSE EXISTING LIGHTING CIRCUIT FOR NEW L8 FIXTURES; EXTEND CIRCUIT AS NEEDED TO FEED AT END OF FIXTURE. LENGTH OF L8 FIXTURE TO MATCH LENGTH BETWEEN EXISTING MOUNTING HOLES LEFT FROM PREVIOUS FIXTURE, APPROXIMATELY 3FT, VERIFY EXACT LENGTH IN FIELD.



KEY PLAN

GRAPHIC SCALE

1/4"=1'-0" 0 4" 8"

REVISION BLOCK

MARK	DATE	DESCRIPTION
1	2/15/2023	100% REVISION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

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Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

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STATE OF MICHIGAN
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BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SMB
CHECKED BY	EMG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	ELECTRICAL
PLAN TYPE	CEILING PLAN
SHEET NUMBER AND FILENAME	L102

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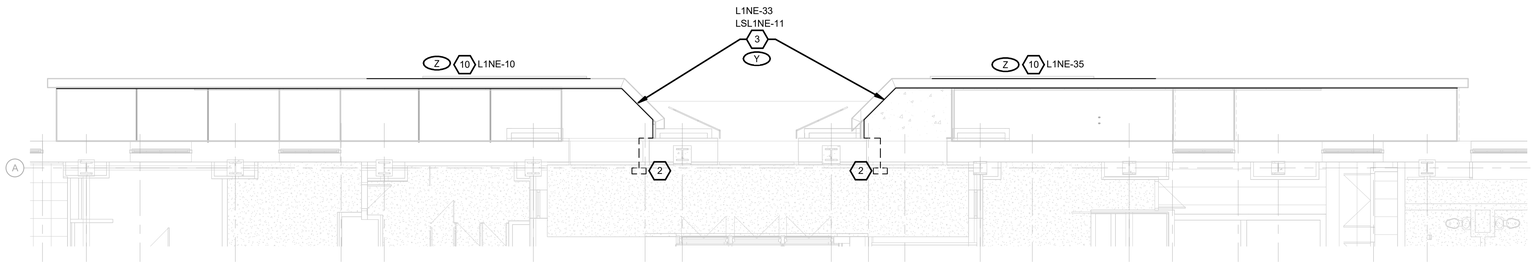

FIRST FLOOR - EXTERIOR RAMP LIGHTING PLAN

SCALE: 1/8" = 1'-0"

LIGHTING GENERAL NOTES:

1 THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.

2 PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.

3 COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.

4 CIRCUIT EXIT LIGHT FIXTURES TO ADJACENT NORMAL POWER CIRCUIT IN AREA SERVED.

5 REFER TO DEMOLITION PLANS FOR AREAS OF NEW WORK ASSOCIATED WITH CEILING REMOVAL AND REPLACEMENT.

6 WHERE APPLICABLE, EXISTING CONDUIT AND CIRCUITING TO BE REUSED FOR NEW LIGHT FIXTURES.

7 WHEN NECESSARY TO ACCOMODATE FIXTURE ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS, CEILING PATCHING SHALL BE PERFORMED TO MATCH ADJACENT UNDISTURBED CEILING.

8 REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.

9 THE FIRE ALARM DEVICES SHOWN ON PLAN ARE A PARTIAL REPRESENTATION OF THE FIRE ALARM SYSTEM. PROVIDE THE DESIGN AND INSTALLATION OF A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM IN ACCORDANCE WITH THE SPECIFICATIONS, DRAWINGS, AND ALL APPLICABLE CODES. THE FIRE ALARM VENDOR SHALL PROVIDE LAYOUT DRAWINGS INDICATING THE REQUIRED QUANTITIES AND LOCATIONS OF MANUAL PULL STATIONS, NOTIFICATION APPLIANCES, SMOKE AND HEAT DETECTORS, CONTROL MODULES, INTERFACE MODULES, MODULES FOR SPRINKLER FLOW AND TAMPER SWITCHES, ALL CONTROL PANELS, POWER SUPPLIES, AND ADDITIONAL DEVICES AND EQUIPMENT REQUIRED. COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL FINISHES AND REFLECTED CEILING PLANS. INCLUDING ADDITIONAL SMOKE AND HEAT DETECTORS REQUIRED FOR NON-SMOOTH CEILING APPLICATIONS. INCLUDE ALLOWANCES FOR ADJUSTMENT OF DEVICES BY THE ARCHITECT AT THE TIME OF SUBMITTAL TO COORDINATE WITH BUILDING FINISHES AND OTHER CEILING ELEMENTS.

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CONSTRUCTION KEYED NOTES:

1 TIE NEW LIGHTING FIXTURE INTO EXSTING LIGHTING CONTROLS.

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7 COORDINATE PLACEMENT OF L10E FIXTURES WITH EXISTING AND NEW PIPING, DUCTWORK, STRUCTURE, AND CONDUIT AS REQUIRED. MAINTAIN FOOTCANDLE LEVEL OF 46 THROUGHOUT SALLYPORT AREA.

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9 CENTER TYPE L11 FIXTURE WITHIN SLANTED CEILING. AIM FIXTURE IN FIELD TO OPTIMAL ANGLE TO LIGHT LIFT BELOW.

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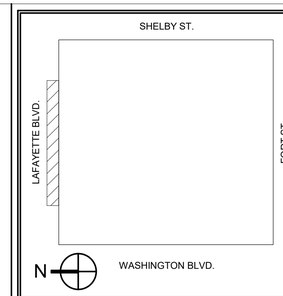

KEY PLAN

GRAPHIC SCALE

1/8"=1'-0" 0 8' 16'

REVISION BLOCK

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SHEET NUMBER AND FILENAME	L104

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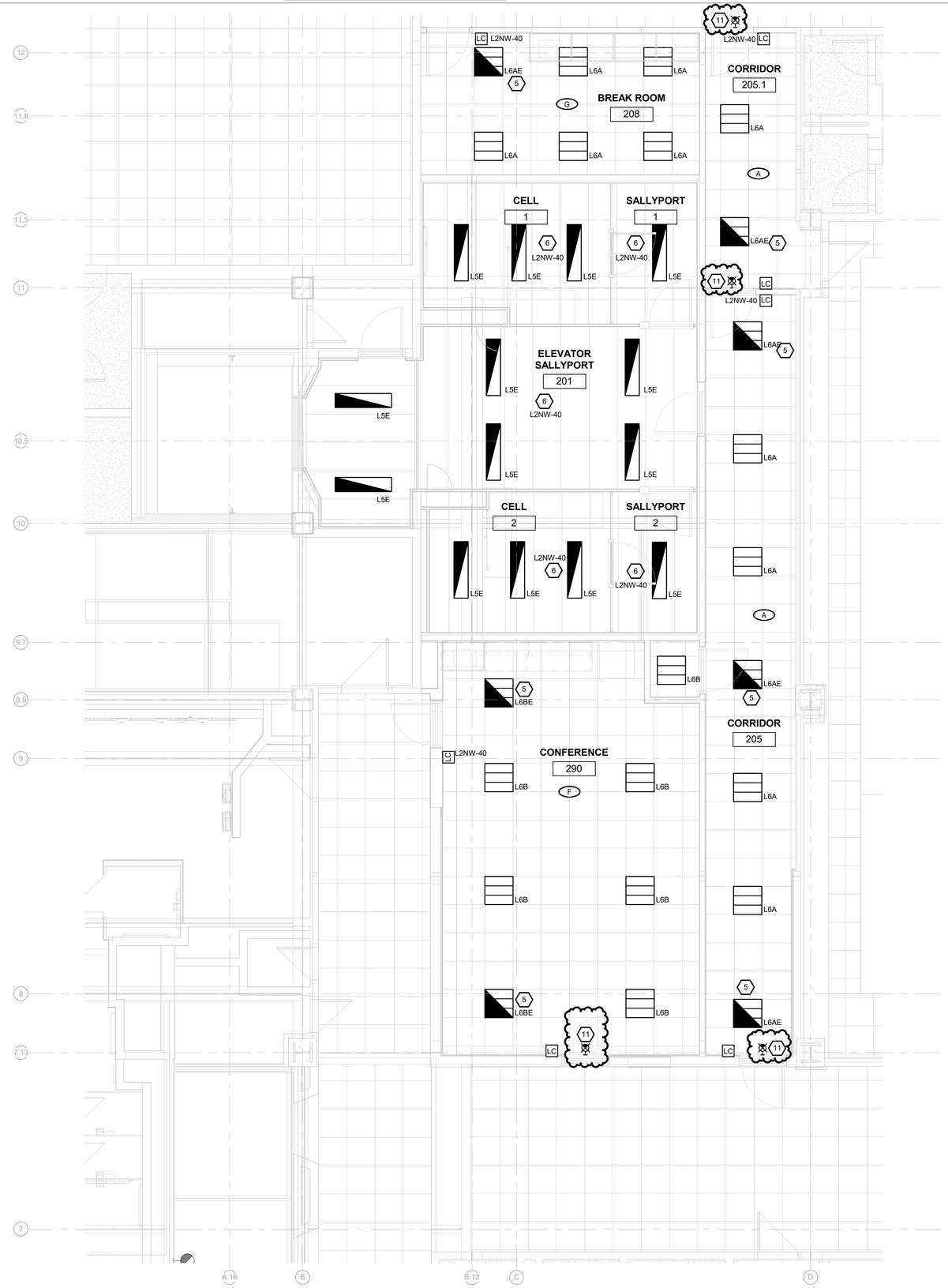


LIGHTING GENERAL NOTES:

1 THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.

2 PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.

3 COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.

4 CIRCUIT EXIT LIGHT FIXTURES TO ADJACENT NORMAL POWER CIRCUIT IN AREA SERVED.

5 REFER TO DEMOLITION PLANS FOR AREAS OF NEW WORK ASSOCIATED WITH CEILING REMOVAL AND REPLACEMENT.

6 WHERE APPLICABLE, EXISTING CONDUIT AND CIRCUITING TO BE REUSED FOR NEW LIGHT FIXTURES.

7 WHEN NECESSARY TO ACCOMODATE FIXTURE ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS, CEILING PATCHING SHALL BE PERFORMED TO MATCH ADJACENT UNDISTURBED CEILING.

8 REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED FIRE ALARM CONTROL MODULES, DUCT SMOKE DETECTORS, AND MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.

9 THE FIRE ALARM DEVICES SHOWN ON PLAN ARE A PARTIAL REPRESENTATION OF THE FIRE ALARM SYSTEM. PROVIDE THE DESIGN AND INSTALLATION OF A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM IN ACCORDANCE WITH THE SPECIFICATIONS, DRAWINGS, AND ALL APPLICABLE CODES. THE FIRE ALARM VENDOR SHALL PROVIDE LAYOUT DRAWINGS INDICATING THE REQUIRED QUANTITIES AND LOCATIONS OF MANUAL PULL STATIONS, NOTIFICATION APPLIANCES, SMOKE AND HEAT DETECTORS, CONTROL MODULES, INTERFACE MODULES, MODULES FOR SPRINKLER FLOW AND TAMPER SWITCHES, ALL CONTROL PANELS, POWER SUPPLIES, AND ADDITIONAL DEVICES AND EQUIPMENT REQUIRED. COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL FINISHES AND REFLECTED CEILING PLANS, INCLUDING ADDITIONAL SMOKE AND HEAT DETECTORS REQUIRED FOR NON-SMOOTH CEILING APPLICATIONS. INCLUDE ALLOWANCES FOR ADJUSTMENT OF DEVICES BY THE ARCHITECT AT THE TIME OF SUBMITTAL TO COORDINATE WITH BUILDING FINISHES AND OTHER CEILING ELEMENTS.

10 REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.

11 ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC. AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.

CONSTRUCTION KEYED NOTES:

1 TIE NEW LIGHTING FIXTURE INTO EXSTING LIGHTING CONTROLS.

2 PROVIDE (1) MOLDED POLYCARBONATE ENCLOSURE FOR EACH LIGHTED RAIL TO HOUSE 2 DRIVERS REQUIRED FOR RAIL LIGHTING, LOCATE IN BASEMENT WITHIN 29' OF RAIL CONNECTION POINT. PROVIDE 16AWG WIRE GAUGE. CONCEAL CONDUIT WITHIN RAMP AND STUB UP AT POLE CONNECTION. PROVIDE INSTALLATION SHOP DRAWINGS OF HANDRAIL FOR REVIEW.

3 LIGHTED HANDRAIL FIXTURE TYPE L9. COORDINATE EXACT LOCATIONS AND HEIGHTS WITH ARCHITECTURAL ELEVATIONS. PROVIDE INSTALLATION SHOP DRAWINGS OF HANDRAIL FOR REVIEW.

4 REPLACE COVE LIGHTING IN COVE ABOVE WITH FIXTURE TYPE L4 TAPE LIGHT. VERIFY EXACT LENGTHS REQUIRED IN FIELD.

5 EMERGENCY LIGHTING NOTATED WITH E SUFFIX. EMERGENCY LIGHTING TO BE CIRCUITED TO EXISTING AREA EMERGENCY LIGHTING CIRCUIT. VERIFY IN FIELD.

6 ALL LIGHTING IN PRISONER AREAS SHALL BE CONTROLLED FROM COMMAND AND CONTROL CENTER. CONTROLS TO BE MANUAL ON/OFF. CIRCUIT NEW FIXTURES TO INDICATED NORMAL CIRCUIT. ALL LIGHTING IN PRISONER AREAS SHALL INCLUDE INTEGRAL EMERGENCY BATTERY BACKUP.

7 COORDINATE PLACEMENT OF L10E FIXTURES WITH EXISTING AND NEW PIPING, DUCTWORK, STRUCTURE, AND CONDUIT AS REQUIRED. MAINTAIN FOOTCANDLE LEVEL OF 46 THROUGHOUT SALLYPORT AREA.

8 CONNECT NEW LIGHTING FIXTURES TO EXISTING LIGHTING BRANCH CIRCUIT.

9 CENTER TYPE L11 FIXTURE WITHIN SLANTED CEILING. AIM FIXTURE IN FIELD TO OPTIMAL ANGLE TO LIGHT LIFT BELOW.

10 LIGHTED SIGNAGE, REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS. PROVIDE TYPE L13 FIXTURE TYPE ON BOTH TOP AND BOTTOM OF SIGN. CONDUIT AND WRING TO BE ROUTED UNDER RAMP AND TO ACCESS PANEL LOCATED AT RAMP WALL BEHIND SIGNAGE. PROVIDE INSTALLATION SHOP DRAWINGS OF LIGHTED SIGNAGE FOR REVIEW.

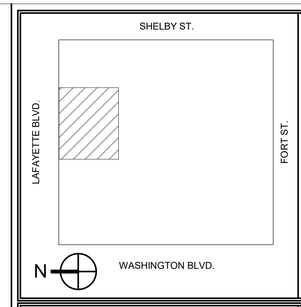
11 PROVIDE NEW EXIT SIGN, MATCH EXISTING EXIT SIGN STYLE, AND PROVIDE BATTERY BACKUP.

12 RELOCATE EXISTING LIGHT SWITCH FOR CONTROLLING PUBLIC-SIDE LIGHTS AT TRANSACTION WINDOW APPROXIMATELY 18" WEST OF ITS EXISTING LOCATION ON THE NORTH WALL OF THE USMS COMMAND AND CONTROL CENTER.

13 REUSE EXISTING LIGHTING CIRCUIT FOR NEW L8 FIXTURES; EXTEND CIRCUIT AS NEEDED TO FEED AT END OF FIXTURE. LENGTH OF L8 FIXTURE TO MATCH LENGTH BETWEEN EXISTING MOUNTING HOLES LEFT FROM PREVIOUS FIXTURE, APPROXIMATELY 3FT, VERIFY EXACT LENGTH IN FIELD.

SECOND FLOOR - OPTION 1 LIGHTING PLAN

SCALE: 1/4" = 1'-0"



KEY PLAN

GRAPHIC SCALE

1/4"=1'-0" 0 4" 8"

REVISION BLOCK

MARK	DATE	DESCRIPTION
1	2/15/2023	100% REVISION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

Peter Basso Associates Inc
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48098-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No: 2021-0206

STAMP OR SEAL

STATE OF MICHIGAN
ERIC MICHAEL GRAETTINGER
ENGINEER
No. 62010521 64
LICENSED PROFESSIONAL ENGINEER

OWNER IDENTIFICATION

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SMB
CHECKED BY	EMG
FLOOR NO.	SECOND FLOOR
DISCIPLINE	ELECTRICAL
PLAN TYPE	CEILING PLAN
SHEET NUMBER AND FILENAME	L105

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GENERAL NOTES

THE U.S. MARSHALS SERVICE COURTHOUSE CONSTRUCTION ROLES AND PROCEDURES

OCM. THE USMS **OFFICE OF CONSTRUCTION MANAGEMENT** IS RESPONSIBLE FOR THE PROGRAMMING, PLANNING, ACQUISITION, BUDGETING, DESIGN, AND CONSTRUCTION OF THE SPACE THE USMS OCCUPIES IN FEDERAL COURTHOUSES AND LEASED SPACE; THAT IS, THE NON-JUDICIAL PORTION OF THE BUILDING FOR WHICH THE USMS PAYS "RENT" TO THE U.S. GENERAL SERVICES ADMINISTRATION (**GSA**).

USMS SPACE INCLUDES PRISONER MOVEMENT, PROCESSING, AND HOLDING AREAS, ADMINISTRATIVE AND OPERATIONAL OFFICES, AND RELATED CIRCULATION AND SUPPORT AREAS.

OSSH. THE USMS **OFFICE OF SECURITY, SAFETY AND HEALTH** IS RESPONSIBLE, THROUGH THE **USMS SECURITY CONTRACTOR**, FOR THE INSTALLATION OF SECURITY EQUIPMENT SUCH AS CCTV CAMERAS, MONITORS, VIDEO RECORDERS, INTERCOMS, DOOR CONTROL DEVICES, AND ALARMS THROUGHOUT USMS SPACES.

OSSH DEVELOPS SECURITY DESIGN DRAWINGS SHOWING SECURITY DEVICE LOCATIONS. FLOOR PLANS ARE ASSUMED BY OCM TO BE FIXED AT THIS POINT, AND OCM AND OSSH MUST REVIEW AND APPROVE ANY SUBSEQUENT CHANGES.

CONSTRUTION MANAGER AS CONSTRUCTOR (CMC) THE **CMC** IS RESPONSIBLE FOR:

- CONSTRUCTION OF THE PHYSICAL SPACE, INCLUDING WALLS, WINDOWS, CEILINGS, FLOORS, AND DOORS, AND INSTALLATION OF LIGHTING, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND HVAC SYSTEMS.
- RELIABLE SOURCES OF CONTINUOUS, CLEAN, AND UNINTERRUPTED ELECTRICAL POWER.
- CONDUIT WITH PULL STRINGS, ENCLOSED DIVIDED CABLE TRAYS, MOUNTING BOXES, AND SECURITY CLOSETS (BUT NOT SIGNAL CABLING) FOR ALL COMPUTER, COM- MUNICATION, SECURITY, AND DETENTION DOOR CONTROL SYSTEMS.
- ELECTRIC STRIKES, WHERE SPECIFIED, IN BUILDING- STANDARD DOORS.
- INSTALLATION (THROUGH THE CMC DETENTION HARD- WARE SUBCONTRACTOR, BELOW) OF THE DETENTION HARDWARE AND CONTROL SYSTEM.

USMS SECURITY CONTRACTOR. THE USMS SECURITY CONTRACTOR IS RESPONSIBLE FOR THE "TURNKEY" OPERATION AND ONGOING MAINTENANCE OF THE ELECTRONIC SECURITY SYSTEMS WITHIN THE USMS PORTION OF THE COURTHOUSE. SYSTEM COMPONENTS INCLUDE CCTV CAMERAS AND MONITORS, INTERCOMS, DURESS ALARMS, MOTION DETECTORS, DIGITAL KEYPADS AND SCRAMBLEPADS; THE CONTROL PANELS, MONITORS, AND RELATED EQUIPMENT IN THE USMS COMMAND AND CONTROL CENTER; AND ALL SIGNAL CABLING EXCEPT FOR DETENTION HARDWARE DEVICES.

CMC DETENTION HARDWARE SUBCONTRACTOR. THE CMC DETENTION HARDWARE SUBCONTRACTOR, AS A SUBCONTRACTOR TO THE GENERAL CONTRACTOR, IS RESPONSIBLE FOR PROVIDING "TURNKEY" OPERATION OF THE DETENTION HARDWARE SYSTEM, WHICH INCLUDES THE DOOR CONTROLLER, LOCKS, HINGES, PULLS, CLOSERS, POSITION SWITCHES, MAGNETIC CONTACT SWITCHES, AND OTHER DEVICES NECESSARY FOR COMPLETE DOOR OPERATION WITHIN THE PRISONER DETENTION AREA. THE SUBCONTRACTOR IS ALSO RESPONSIBLE FOR INTEGRATING THE OPERATION OF THE PRISONER DETENTION DOOR CONTROLS WITH OTHER SECURITY SYSTEM CONTROLS IN THE USMS COMMAND AND CONTROL CENTER, AND FOR ALL SIGNAL CABLING BETWEEN DETENTION HARDWARE AND THE CONTROL CENTER.

OCM, OSSH, USMS District Office, & CMc Responsibilities

Task	OCM	OSSH	USMS District Office	CMc
Provide USMS space requirements.	•			
Provide final approval for prospectus development study package.				
Review and provide written comments on construction drawings from conceptual design through 100% construction drawings.	•			
Select door hardware for prisoner and non-prisoner areas.				
Review detention door hardware.	•			
Select glazed block and paint colors, wall coverings, carpet, ceramic tile.			•	
Select and procure fitness equipment.			•	
Create punch list of deficiencies, with input to owner.	•		•	
Participate in all construction progress meetings.	•	•	•	•
Fund new USMS office furniture.	•			
Select USMS office furniture.			•	
Select detention area fixtures.	•			
Install detention area fixtures.				•
Verify compliance of USMS space with USMS *Publication 64*	•		•	
Construct USMS space.				•
Fund USMS expansion space, via *Reimbursable Work Authorization*	•			
Assign USMS space and provide for rent adjustments.				
Maintain communication among A/Es, construction manager, general contractor, and subcontractors.				•
Develop bid solicitation packages (request for proposals)				
Coordinate bid negotiations and preconstruction conference.				•
Provide and install conduit with pull strings, junction boxes, and mounting boxes for all telecommunications and data cables as well as all electronic security and detention hardware devices under USMS purview.				•
USMS security contractor (SC) provides, installs, tests, delivers all electronic se- curity devices and equipment under USMS purview..		•		
Provide keying schedule for door hardware under USMS purview.			•	
Install electric strikes, where specified, in building-standard doors.				•
Provide prisoner space ventilation-related drawings, equipment information, and O&M schedules to USMS district office.				•
Coordinate work between electrical contractor and USMS SC.				•
Initiate USMS installation of communication/telephone/computer systems.	•		•	
CMc detention hardware subcontractor provides, installs, tests, delivers detention door control system in USMS command and control center.				•
Perform walk-thru and final inspections of new USMS space.	•	•	•	•
Inspect, witness success testing, and approve fire protection systems and door locking arrangements within USMS space.				•

USMS SECURITY CONTRACTOR RESPONSIBILITIES

THE USMS SECURITY CONTRACTOR'S PROJECT TASKS AND RESPONSIBILITIES TYPICALLY INCLUDE:

DESIGN SERVICES

- MAKE RECOMMENDATIONS TO OSSH REGARDING THE MOST EFFICIENT, COST EFFECTIVE, AND OPERATIONALLY SOUND METHODS FOR ACCOMPLISHING THE INTENDED SECURITY GOALS.
- DEVELOP EQUIPMENT INSTALLATION ENGINEERING PLANS AND SCHEDULES.
- PREPARE LIST OF DELIVERABLES.
- CONDUCT PERFORMANCE EVALUATION REVIEW.
- PROVIDE HEAT LOAD AND ELECTRICAL POWER REQUIREMENTS.

INSTALLATION SERVICES

- PROVIDE HARDWARE AND SOFTWARE.
- INSTALL HARDWARE AND SOFTWARE.
- TEST AND EVALUATE HARDWARE AND SOFTWARE.
- PERFORM MINOR FACILITY MODIFICATIONS REQUIRED TO SUPPORT EQUIPMENT INSTALLATION.
- ADDRESS SPECIAL CIRCUMSTANCES AS REQUIRED OR REQUESTED.
- PROVIDE DEMARCATION BOX TO DETENTION DOOR CONTROL SYSTEM CONNECTION, AND, WHERE SPECIFIED, VEHICLE BARRIER SYSTEM, OVERHEAD DOOR, AND ELEVATOR CONNECTIONS.
- PROVIDE FULLY OPERATIONAL SECURITY SYSTEM 15 DAYS PRIOR TO OCCUPANCY DATE.

DOCUMENTATION AND TRAINING

- PROVIDE SYSTEM AND COMPONENT DOCUMENTATION FOR THE ENTRY CONTROL AND MONITORING SYSTEMS.
- PROVIDE OPERATION AND MAINTENANCE MANUALS.
- PROVIDE PERSONNEL TRAINING AND WRITTEN TRAINING GUIDES.
- PROVIDE AS-BUILT INSTALLATION DRAWINGS.

WARRANTIES

- WARRANT INSTALLED SYSTEMS.

MAINTENANCE AND SERVICE

- MAINTAIN AND SERVICE INSTALLED SYSTEMS.

EXISTING FACILITIES AND SYSTEMS

FOR INSTALLATIONS IN EXISTING FACILITIES OR WHERE EXISTING SYSTEMS REQUIRE INTEGRATION, WORK WITH OCM AND OSSH TO DEVELOP CONCEPT DRAWINGS BASED ON SITE SURVEY OF EXISTING CONDITIONS:

- CONDUCT A SITE INVESTIGATION IN PREPARATION FOR A DELIVERY ORDER PROPOSAL, INCLUDING SURVEYING EXISTING EQUIPMENT AND DETERMINING ITS LOCATION, CONDITION, AND OPERATIONAL CAPABILITY.
- MARK-UP PRELIMINARY PLANS TO REFLECT CURRENT IN- FORMATION DURING THE PROCESS OF DEVELOPING DESIGN INTENT DRAWINGS WITH OCM AND OSSH.
- DETERMINE COMPATIBILITY BETWEEN NEW AND EXISTING EQUIPMENT AND DEVISE INTERFACE SOLUTIONS.
- IN SOME INSTANCES, BE RESPONSIBLE FOR UPGRADING AN EXISTING SECURITY SYSTEM, INCLUDING THE REPLACEMENT OF SELECTED COMPONENTS AND THE RELOCATION OF OTHERS.

CMC DETENTION HARDWARE SUBCONTRACTOR RESPONSIBILITIES

THE DETENTION HARDWARE SUBCONTRACTOR'S TASKS AND RESPONSIBILITIES TYPICALLY INCLUDE:

QUALIFICATIONS

- SUBMIT QUALIFICATIONS OF EXPERIENCE TO THE CONTRACTING OFFICER WITH A PROPERLY EXECUTED "SUBCONTRACTOR'S QUALIFICATIONS STATEMENT," AIA DOCUMENT A305.
- DEMONSTRATE A MINIMUM OF FIVE YEARS OF EXPERIENCE IN SUCCESSFULLY COMPLETING PROJECTS EQUIVALENT IN SCOPE AND MAGNITUDE TO THE WORK HEREIN SPECIFIED. INCLUDE A LIST OF TEN PROJECTS COMPLETED AND IN OPERATION FOR THREE YEARS, WITH THE NAME AND LOCATION OF EACH FACILITY, THE DATE OF OWNER OCCUPANCY, THE OWNER'S REPRESENTATIVE AND PHONE NUMBER, AND THE CONSTRUCTION MANAGER OR SUBCONTRACTOR AND ARCHITECT.

INSTALLATION SERVICES

- PROVIDE A LETTER FROM THE DOOR HARDWARE MANUFACTURER STATING THAT SUBCONTRACTOR IS A FACTORY- TRAINED AND AUTHORIZED INSTALLER OF ITS EQUIPMENT.
- SUGGEST HARDWARE OR SOFTWARE ITEMS OR RELATED EQUIPMENT THAT REPRESENT ADVANCES IN PERFORMANCE OR ARE CONSIDERED STATE-OF-THE-ART FOR POSSIBLE INCORPORATION IN USMS'S LIST OF EQUIPMENT.
- PROMPTLY NOTIFY USMS OF ANY CHANGES IN ITS SUPPLIER PRODUCT LINES SO APPROPRIATE SUBSTITUTES MAY BE CONSIDERED.
- PROVIDE, UPON REQUEST BY GSA OR USMS, TECHNICAL INSTALLATION SUPPORT, INCLUDING ATTENDING CONSTRUCTION MEETINGS AND WORKING WITH LOCAL USMS REPRESENTATIVES AND GSA AND ITS SUBCONTRACTORS.
- DEVELOP EQUIPMENT INSTALLATION PLANS BASED ON *USMS PUBLICATION 64* AND THESE DRAWINGS, AND, IF APPLICABLE, ARE COMPATIBLE WITH EXISTING EQUIPMENT AND CONDITIONS.
- PROVIDE A HARDWARE SCHEDULE, COORDINATED WITH DOORS, FRAMES, AND RELATED WORK, AND PROVIDE SAMPLES OF EACH TYPE OF EXPOSED HARDWARE DEVICE IN THE FINISH INDICATED, TAGGED, WITH FULL DESCRIPTION, FOR COORDINATION WITH THE SCHEDULE. SUBMIT SAMPLES PRIOR TO SUBMISSION OF FINAL HARDWARE SCHEDULE.
- PROVIDE AND INSTALL ALL APPROVED DETENTION HARDWARE AND RELATED SYSTEMS HARDWARE AND SOFTWARE.
- PROVIDE AND INSTALL CONTROLS FOR THE VEHICLE SALLYPORT OVERHEAD DOOR IN THE USMS COMMAND AND CONTROL CENTER CONSOLE.
- PROVIDE INTERFACE CONNECTION AT THE USMS SECURITY CONTRACTOR-INSTALLED DEMARCATION JUNCTION BOX FOR THE DETENTION DOOR CONTROLLER AND, WHERE SPECIFIED, THE VEHICLE BARRIER SYSTEM.
- PROVIDE DRAWINGS, PRODUCT SPECIFICATIONS SHEETS, AND ANY OTHER APPROPRIATE INFORMATION NECESSARY TO COORDINATE INSTALLATION WORK WITH GSA AND THE USMS.
- PERFORM MINOR FACILITY MODIFICATIONS REQUIRED TO SUPPORT THE EQUIPMENT INSTALLATION AND SYSTEMS DE- SIGN.
- AS REQUESTED, UPGRADE EXISTING SECURITY SYSTEMS, INCLUDING THE REPLACEMENT OF SELECTED COMPONENTS AND THE RELOCATION OF OTHERS. AS PART OF THE INVESTIGATION OF EXISTING CONDITIONS, DETERMINE THE MEASURES REQUIRED TO INTERFACE WITH NEW AND EXISTING EQUIPMENT.
- TEST AND PROVIDE A FULLY OPERATIONAL SYSTEM.

DOCUMENTATION AND TRAINING

- PROVIDE PRODUCT DATA, INCLUDING MANUFACTURER'S TECHNICAL DATA FOR EACH ITEM OF DOOR HARDWARE, INSTALLATION INSTRUCTIONS, MAINTENANCE AND OPERATING INSTRUCTIONS, AND OTHER APPLICABLE INFORMATION.
- PROVIDE FULLY DETAILED SHOP DRAWINGS INDICATING THE QUANTITY, TYPES, LOCATIONS, AND WEIGHTS OF MATERIALS, AND THE FINISH, FRAMING, REINFORCEMENT, AND ANCHORAGE OF THE DETENTION HARDWARE.
- PROVIDE HARDWARE TEMPLATES FOR THE DETENTION DOOR AND FRAME MANUFACTURER.
- PROVIDE KEYING SCHEDULE, INDICATING CLEARLY HOW THE CONTRACTING OFFICER'S FINAL INSTRUCTIONS ON THE KEYING OF LOCKS HAS BEEN FULFILLED
- PROVIDE "AS-BUILT," SINGLE-LINE WIRING DIAGRAMS FOR THE ENTRY OPERATING SYSTEMS, LOCKING DEVICES, AND MONITORING SYSTEMS.
- PROVIDE, FOR ALL EQUIPMENT SUPPLIED, PARTS LISTS WITH MANUFACTURER PART NUMBERS, AND COMPLETE IN- FORMATION COVERING OPERATION AND MAINTENANCE, INCLUDING LUBRICATION REQUIREMENTS AND ADJUSTMENT INSTRUCTIONS FOR VARIABLE CONTROLS.
- PROVIDE A PROJECT OPERATIONS AND MAINTENANCE MANUAL THAT INCLUDES WRITTEN TEST PROCEDURES FOR ALL MAJOR COMPONENTS AND SYSTEMS, EQUIPMENT CUT SHEETS, AND ENGINEERING DRAWINGS, INCLUDING A SECURITY FLOOR PLAN WITH THE LOCATIONS OF ALL EXISTING AND INSTALLED SECURITY HARDWARE DEVICES. PUT DRAWINGS IN ELECTRONIC FORMAT AND PROVIDE TO OCM AND THE LOCAL USMS DISTRICT. INCLUDE SHOP DRAWINGS. PROVIDE COPIES OF THE MANUAL TO THE USMS SITE REPRESENTATIVE AND GSA CONTRACTING OFFICER REPRESENTATIVE.
- PROVIDE FACTORY-TRAINED REPRESENTATIVES FOR A MINIMUM OF THREE (3) CONSECUTIVE WORKING DAYS ON SITE TO DEMONSTRATE EQUIPMENT AND INSTRUCT THE CONTRACTING OFFICER AND OTHER DESIGNATED PERSONNEL IN THE OPERATION, REPAIR, AND MAINTENANCE OF DETENTION HARDWARE AND DOOR CONTROL SYSTEMS.

WARRANTIES

- WARRANT ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE CONTRACTING OFFICER. DURING THE WARRANTY PERIOD, REPLACE OR REPAIR DEFECTIVE MATERIALS AND CORRECT DEFECTIVE WORK WITHIN FIVE WORKING DAYS OF RECEIVING A WRITTEN REQUEST BY THE CONTRACTING OFFICER.

LEGEND

- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- EXISTING DOOR AND FRAME TO REMAIN
- NEW DOOR AND FRAME
- NEW CONCRETE FLOORING
- EMBEDDED LOOP DETECTOR
- CR — NEW CARD READER
- CR E — EXISTING CARD READER
- CDPS — NEW CLOSER WITH DOOR POSITION SWITCH (CDPS)
- 120 — NEW DETENTION ELECTROMECHANICAL DEADLATCH
- 600 — NEW SECURITY ELECTROMECHANICAL LOCKSET
- BRG — NEW BALLISTIC RESISTANT GLASS
- BRM — NEW BALLISTIC RESISTANT MATERIAL
- D — NEW DURESS BUTTON
- HR — NEW TS HIRSCH SCRAMBLE PAD
- NEW INTERCOM
- D — NEW INTERCOM WITH DURESS BUTTON
- NEW CCV CAMERA
- NEW CCV MONITOR
- D C — NEW DOOR CONTACT
- D C E — EXISTING DOOR CONTACT
- B M — NEW MAGNETIC DOOR CONTACT
- DPS — NEW DPS (DOOR POSITION SWITCH)
- D — NEW WIRELESS DURESS BUTTON
- REX — REQUEST TO EXIT
- P — NEW MECHANICAL
- E — EXISTING ELECTRIC STRIKE
- NEW ELECTRIC STRIKE
- CK — NEW CARD READER WITH KEYPAD
- CK E — EXISTING CARD READER WITH KEYPAD
- AV — NEW AUDIO/VIDEO INTERCOM
- AV E — EXISTING AUDIO/VIDEO INTERCOM
- NEW GLASS BREAK SENSOR
- E — EXISTING GLASS BREAK SENSOR
- W — NEW WALL MOUNTED CCV MONITOR
- D — NEW DESK MOUNTED CCV MONITOR
- NEW MOTION SENSOR

KEY PLAN

GRAPHIC SCALE

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

STAMP OR SEAL

STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047654
LICENSED ARCHITECT

OWNER IDENTIFICATION

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	
DISCIPLINE	SECURITY
PLAN TYPE	SECURITY GENERAL NOTES
SHEET NUMBER AND FILENAME	TSS001

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GENERAL NOTES

GENERAL PROJECT REQUIREMENTS
THE USE OF PUBLICATION 64
NO DEVIATIONS. NO DEVIATIONS FROM THE REQUIREMENTS OF USMS PUBLICATION 64 ARE PERMITTED UNLESS APPROVED IN WRITING BY OCM. THESE CONSTRUCTION DOCUMENTS DO CONTAIN DEVIATIONS THAT HAVE BEEN SPECIFICALLY NEGOTIATED AND LOGGED WITH OCM.
INCORPORATION IN SFO. USMS PUBLICATION 64 SHALL BE INCORPORATED AS PART OF THE GSA SOLICITATION FOR OFFER (SFO) OR BID PACKAGE FOR COURTHOUSE CONSTRUCTION OR RENOVATION.
PRECEDENCE OVER PBS-P100. THE DESIGN STANDARDS AND CRITERIA SET FORTH IN *PBS-P100, GSA STANDARDS FOR THE PUBLIC BUILDINGS SERVICE,* ALSO APPLY. IN THE EVENT OF A DISCREPANCY BETWEEN THE REQUIREMENTS IN *PBS-P100* AND THE REQUIREMENTS OF *USMS PUBLICATION 64*, THE REQUIREMENTS IN *USMS PUBLICATION 64* TAKE PRECEDENCE, UNLESS GSA AND USMS AGREE OTHERWISE IN WRITING.
ANY KIND.
CONFLICTS WITH CODES AND STANDARDS. IN THE EVENT OF A CONFLICT BETWEEN USMS PUBLICATION 64 AND CODES OR STANDARDS REQUIREMENTS, THE CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE GSA AND OCM PROJECT MANAGERS FOR RESOLUTION. TO ENSURE FLEXIBILITY IN SUCH CASES, IT IS USMS POLICY TO MAKE MAXIMUM USE OF THE CODES AND STANDARDS EQUIVALENCY CLAUSES.

SECURITY SYSTEMS
CONDUIT. C*ONDUIT* REFERS HEREIN TO A PIPE OR TUBE USED FOR PROTECTING ELECTRIC WIRES OR CABLES. IN COURTHOUSES, THE CONDUIT USED IS PRIMARILY ELECTRICAL METALLIC TUBING *(EMT*).
CONDUIT DIAGRAMS. THE CMC IS RESPONSIBLE FOR PROVIDING RISER AND HORIZONTAL RUN CONDUIT DIAGRAMS FOR THE ELECTRONIC SECURITY SYSTEMS, ACCESS CONTROL SYSTEMS, ELECTRICAL LOCKING DEVICES, AND MONITORING SYSTEMS. DIAGRAMS SHALL BE SUBMITTED FOR REVIEW TO GSA AND OSSH.
USMS SECURITY CONTRACTOR. THE USMS SECURITY CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL ELECTRONIC SECURITY DEVICES AND CONTROL SYSTEMS, AND CONNECTING THEM TO THE CONTROL PANELS IN THE USMS COMMAND AND CONTROL CENTER.
CMC DETENTION HARDWARE SUBCONTRACTOR. THE DETENTION HARDWARE SUBCONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL DETENTION HARDWARE DEVICES AND CONNECTING THEM TO THE CONTROL PANELS IN THE USMS COMMAND AND CONTROL CENTER.
POWER SUPPLY AND SIGNAL CABLE CONDUIT FOR SECURITY DEVICES. CMC IS RESPONSIBLE FOR PROVIDING ELECTRICAL POWER FOR EACH SECURITY AND DETENTION HARDWARE DEVICE LOCATION, AND FOR INSTALLING CONDUIT WITH PULL STRINGS, JUNCTION BOXES, AND MOUNTING BOXES FOR THE USMS SECURITY CONTRACTOR TO RUN SIGNAL CABLES FROM EACH DEVICE TO THE USMS COMMAND AND CONTROL CENTER OR OTHER DESIGNATED LOCATIONS. THE CMC SHALL DESIGN, ENGINEER, AND SPECIFY THE MOST STRAIGHTFORWARD POWER SUPPLY AND SIGNAL CABLE CONDUIT LAYOUT POSSIBLE:

- **LOW VOLTAGE POWER SUPPLY**. ON EACH FLOOR OF THE BUILDING THERE SHALL BE A DESIGNATED SECURITY RISER CLOSET WHERE A 120 VAC SOURCE FROM THE BUILDING EMERGENCY OR UNINTERRUPTED POWER SUPPLY SYSTEM IS INSTALLED IN A LOCKABLE ELECTRICAL BOX. THE USMS SECURITY CONTRACTOR SHALL INSTALL A POWER SUPPLY UNIT IN THE BOX THAT REDUCES THE POWER BEING RUN TO EACH INDIVIDUAL PIECE OF SECURITY EQUIPMENT TO THE APPROPRIATE LOW VOLTAGE.
- **SIGNAL CABLE CONDUIT**. MINIMUM CONDUIT SIZE SHALL BE 21 MM (3/4") FOR THE SIGNAL CABLE (SUCH AS RG59U CABLE FOR CCTV SIGNAL TRANSMISSION). TO AVOID MULTIPLE CONDUIT RUNS, THE 21 MM (3/4") CONDUIT LEADING FROM THE MOUNTING BOX AT EACH DEVICE LOCATION SHOULD BRANCH OFF A MAIN CONDUIT RUN SIZED ACCORDING TO THE NUMBER OF CABLES REQUIRED ON THAT PARTICULAR FLOOR, AND RUN TO THE USMS SECURITY CON- SOLE.
- **120 VAC POWER SUPPLY**. THERE WILL BE SITUATIONS FOR WHICH THE USMS WILL REQUIRE A 120-VAC ELECTRICAL OUTLET (OFF THE EMERGENCY CIRCUIT), DIRECTLY AT THE MOUNTING LOCATION OF A PARTICULAR PIECE OF SECURITY EQUIPMENT. THIS WILL BE SO NOTED EITHER ON THE USMS DESIGN INTENT DRAWINGS OR DURING THE REVIEW COMMENTS PHASE OF THE PROJECT.
- **CABLE TRAYS AND CONDUIT**. ENCLOSED DIVIDED CABLE TRAYS MAY BE USED ONLY IN USMS NON-PRISONER SPACES FOR SECURITY DEVICE CABLING. CONDUIT MUST BE USED IN PRISONER SPACES AND OUTSIDE THE USMS SPACE. ALL JUNCTION BOXES TO BE READILY ACCESSIBLE.
- **WIRE AND CABLE.** ALL WIRE OR CABLE INSTALLED BY USMS SECURITY CONTRACTOR TO BE PLENUM-RATED FOR INTERIOR USE, AND DIRECT-BURIAL-RATED FOR USE IN EXTERIOR UNDERGROUND CONDUIT (SEE GENERAL NOTE, VOL- UME II).

EMERGENCY POWER. THE USMS COMMAND AND CONTROL CENTER, SECURITY EQUIPMENT ROOM, PRISONER ELEVATOR, AND ALL CCTV CAMERAS, MONITORS AND INTERCOMS, SAFETY AND SECURITY DEVICES, AND ELECTRICAL DEVICES WITHIN THE USMS DETENTION ENVELOPE ARE TO BE CONNECTED TO AN EMERGENCY POWER SUPPLY.
EMERGENCY TASK LIGHTING. SELECTED LIGHTING FIXTURES, AS DESIGNATED BY USMS, MUST PROVIDE AN UNINTERRUPTED SOURCE OF LIGHTING IN THE EVENT OF A POWER FAILURE. CMC SHALL PROVIDE STANDARD, EMERGENCY, BACKUP, CLEAN, AND PREDEFINED ELECTRICAL POWER NEEDS, INCLUDING BATTERY-POWERED LIGHTS. ALL ELECTRICAL SECURITY HARDWARE DEVICES WITHIN THE DETENTION ENVELOPE SHALL BE EQUIPPED WITH AN INTEGRAL BATTERY BACKUP MODULE AND BE CONNECTED TO THE FACILITY'S EMERGENCY GENERATOR. THE BATTERY MODULE SHALL PROVIDE A MINIMUM OF 60 MINUTES OF POWER AT THE DEVICE IN THE EVENT OF A FAILURE OF THE EMERGENCY GENERATOR.
SECURITY DEVICE MOUNTING. ALL SECURITY DEVICES SHALL BE FLUSH-MOUNTED AND FASTENED WITH TAMPER- RESISTANT SCREWS.
SECURITY O&M MANUAL. DOCUMENTATION AND TRAINING SHALL BE PROVIDED BY CMC TO USMS PERSONNEL FOR THE OPERATION AND MAINTENANCE OF DETENTION HARDWARE DEVICES IN ALL PRISONER AREAS, THE SECURITY EQUIPMENT ROOM, COMPUTER/IT ROOM, AND THE USMS COMMAND AND CONTROL CENTER, AS WELL AS FOR THE OPERATION AND MAINTENANCE OF THE SUPPLEMENTAL HVAC SYSTEMS IN THE SECURITY EQUIPMENT ROOM, THE COMPUTER/IT ROOM, AND THE USMS COMMAND AND CONTROL CENTER.
SECURITY SYSTEMS OPERATIONAL DEADLINE. ALL BUILDING SECURITY SYSTEMS SHALL BE DEMONSTRATED TO BE FULLY OPERATIONAL 15 CALENDAR DAYS IN ADVANCE OF INITIATION OF COURTHOUSE OPERATIONS.
DOOR KEYING SCHEDULE. THE LOCAL USMS DISTRICT OFFICE IS RESPONSIBLE FOR DEVELOPING AND APPROVING THE KEYING SCHEDULE FOR ALL DOOR HARDWARE IN USMS SPACES.
PRISONER SURVEILLANCE. ALL PRISONER MOVEMENT AREAS MUST BE DESIGNED TO BE UNDER CONTINUOUS CCTV SURVEILLANCE DURING ALL HOURS OF COURTHOUSE OPERATION.
CCTV CAMERA VISUAL AND FUNCTIONAL INTERFERENCE. CCTV CAMERAS SHALL BE INSTALLED IN LOCATIONS THAT DO NOT INTERFERE WITH THE FUNCTION OF FIRE SPRINKLERS OR FIRE ALARM NOTIFICATION APPLIANCES. LIKEWISE, THESE DEVICES MUST NOT OBSTRUCT VIEWS OF THE CCTV CAMERAS.

CONTINUITY OF SECURITY IN RENOVATION PROJECTS
DURING THE DESIGN PHASE OF A RENOVATION PROJECT, GSA AND USMS WILL MEET TO ADDRESS THE CONTINUITY OF SECURITY AND OPERATIONS. IT IS INCUMBENT ON THE CMC TO UNDER- STAND THE DEGREE OF SECURITY AND OPERATIONS TO BE MAINTAINED DURING THE RENOVATION PROCESS. THE PHASING OF CONSTRUCTION AND DEMOLITION WILL BE PLANNED JOINTLY WITH GSA, OCM, OSSH, AND THE LOCAL USMS DISTRICT OFFICE, WITH THE GOAL OF KEEPING THE IMPACT ON OPERATIONS AND SECURITY TO A MINIMUM.
ANY WORK THAT HAS THE POTENTIAL OF DIMINISHING THE CAPABILITIES OF EXISTING SECURITY SYSTEMS MUST BE BROUGHT TO THE ATTENTION OF OSSH AND THE LOCAL USMS DISTRICT OFFICE PRIOR TO THE WORK BEING INITIAT- ED. THIS INCLUDES REMOVING, RELOCATING, OR PROTECTING SECURITY COMPONENTS, CABLE, AND DEVICES. GSA AND ITS CONTRACTOR WILL PROVIDE A SCHEDULE AND DESCRIPTION OF THE WORK REQUIRED. REMOVING OR RELOCATING SECURITY-RELATED COMPONENTS WILL BE PER- FORMED BY THE USMS SECURITY CONTRACTOR, WITH RE- MOVED COMPONENTS RETURNED TO THE USMS POINT OF CONTACT.

BUILDING SYSTEMS AND COMPONENTS
SECURITY CEILING NOTIFICATION. CMC MUST PROVIDE A 90-DAY NOTIFICATION TO OCM AND OSSH PRIOR TO INSTALLING THE SECURITY CEILING PANELS IN THE DETENTION CELLBLOCK.
FIRE PROTECTION AND LIFE SAFETY SYSTEMS. CMC IS RESPONSIBLE FOR ENSURING THAT ALL FIRE PROTECTION AND LIFE SAFETY SYSTEMS HAVE BEEN INSTALLED, INSPECTED, AND SUCCESSFULLY TESTED AND APPROVED. THESE SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO, FIRE ALARM SYSTEMS, FIRE SUPPRESSION SYSTEMS, ACCESS CONTROL SYSTEMS, SPECIAL LOCKING ARRANGEMENTS, AND THE LIKE.

CONSTRUCTION DOCUMENTS
USE OF BRAND NAMES. WHILE MOST SECURITY AND DETENTION HARDWARE COMPONENTS DISCUSSED IN USMS PUBLICATION 64 ARE SPECIFIED GENERICALLY, A FEW MAY BE SPECIFIED BY BRAND NAME BECAUSE THEY HAVE A HISTORY OF PROVEN RELIABILITY AND THEIR OPERATION IS FAMILIAR TO USMS PERSONNEL, OR BECAUSE THERE ARE NO KNOWN COMPARABLE PRODUCTS. IN SUCH CASES, "OR USMS-APPROVED EQUIVALENT" PRODUCTS ARE ALWAYS ALLOWED.

SITE ACCESS DURING CONSTRUCTION
USMS INSPECTOR AND SECURITY CONTRACTOR ACCESS. CMC AND GSA MUST ENSURE THAT USMS INSPECTORS AND THE USMS SECURITY CONTRACTOR HAVE UNLIMITED ACCESS TO THE COURTHOUSE CONSTRUCTION SITE AS THE BUILD-OUT IS IN PROGRESS, SO THAT SECURITY DEVICES AND CABLING MAY BE INSTALLED AND INSPECTED IN AN EFFICIENT MANNER, MADE OPERATIONAL, AND TESTED BEFORE BUILDING OCCUPANCY. THE FOLLOWING ACCESS REQUIREMENT MUST BE INCORPORATED:

- 120 TO 150 WORKING DAYS PRIOR TO OPENING.

INFORMATION TECHNOLOGY, VOICE, AND DATA CABLING
CABLING. TELECOMMUNICATIONS AND DATA CABLING MUST MEET OR EXCEED THE FOLLOWING MINIMUM SPECIFICATIONS FOR CABLE, COMPONENTS, AND INSTALLATION. SPECIFIC VENDOR TECHNICAL CLARIFICATIONS, WHEN RE- QUIRED, WILL BE RESPONDED TO IN WRITING THROUGH THE CONTRACTING OFFICER BY THE CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR).

- ANSI/NFPA-70 NATIONAL ELECTRICAL CODE (NEC). CURRENT EDITION.
- ANSI/EIA/TIA-568A COMMERCIAL BUILDINGS WIRING STANDARD, OCT. 1995
- TSB-67 TRANSMISSION SPECIFICATIONS FOR UN- SHIELDED TWISTED PAIR CABLES, OCT. 1995.
- TSB-72 CENTRALIZED OPTICAL FIBER CABLING GUIDE, OCT. 95
- ANSI/EIA/TIA-569A COMMERCIAL BUILDING STANDARD FOR TELECOMMUNICATIONS PATHWAYS AND SPACES STANDARDS PROPOSAL SP2950, NOV. 1995
- ANSI/EIA/TIA-606 ADMINISTRATIVE STANDARD FOR TELECOMMUNICATIONS INFRASTRUCTURE OF COMMERCIAL BUILDINGS, FEB. 1993
- ANSI/EIA/TIA-607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELE- COMMUNICATIONS STANDARD, AUGUST 1995.
- BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL (BICSI), TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL, CURRENT EDITION
- UNDERWRITERS LABORATORIES (UL) INC. 444 STANDARD, COMMUNICATIONS CABLES, 1994

INFORMATION OUTLETS. ALL INFORMATION OUTLETS (IO) MUST BE CONNECTED BY HORIZONTAL CABLING IN A POINT-TO-POINT HOME RUN (STAR TOPOLOGY) TO THE WIRING CENTERS.
ALL CABLES IDENTIFIED AS VOICE WILL BE HOME-RUN BACK TO THE INTERMEDIATE DISTRIBUTION FRAME (IDF) CLOSETS WHERE PUBLIC BRANCH EXCHANGE (PBX) TYPE DIAL TONE EMANATES.
ALL CABLES IDENTIFIED AS DATA WILL BE HOME-RUN BACK TO THE CLOSEST IDF, MAIN DISTRIBUTION FRAME (MDF), OR INFORMATION SYSTEM LOCAL AREA NETWORK (IS LAN) ROOM WITHIN 90 METERS (300 FT).
EACH DATA IDF MUST BE CONNECTED TO THE DATA MDF VIA POINT-TO-POINT WIRING. ALL CABLES AND EQUIPMENT MUST BE LISTED WITH AND VERIFIED BY UNDER- WRITERS LABORATORIES (UL), WHERE APPLICABLE, TO REQUIRED PERFORMANCE STANDARDS.
ALL INSTALLED CABLING, INCLUDING CABLE PAIRS, CONNECTORS, PATCH CORDS, AND PATCH PANELS, MUST BE TESTED AND CERTIFIED TO MEET REQUIRED PERFORMANCE SPECIFICATIONS.
THE IOS TYPICALLY CONTAIN ONE OR MORE CATEGORY 6, EIGHT POSITION (RJ-45 TYPE) MODULAR JACKS. THE SPECIFIC QUANTITY OF IOS, AND THE JACKS PER IO WILL BE IDENTIFIED AFTER THE SITE SURVEYS HAVE BEEN COMPLETED.
THE USMS INFORMATION TECHNOLOGY DIVISION (ITD) REQUIRES THAT FLUSH MOUNT, SURFACE MOUNT, AND MULTIMEDIA OR INTEGRATED MODULAR FURNITURE INFORMATION OUTLETS (IOS) BE INSTALLED IN SINGLE OR DUAL GANG BOXES, BOX ELIMINATORS, OR IN MODULAR FURNITURE KNOCK OUTS. THE TOP OR TOP LEFT JACK WILL BE USED FOR VOICE; THE BALANCE WILL BE DESIGNATED FOR DATA AND LAN PURPOSES. UNDER NO CONDITIONS WILL THE CABLING CONTRACTOR TIE WRAP CABLE TO THE OUTSIDE OF EXISTING CONDUIT.
ALL CABLE MUST BE INSTALLED VIA CONDUIT RACEWAYS AND ANY CABLE NOT IN CONDUIT MUST BE CONCEALED AND PROTECTED IN A CABLE SHEATH, TROUGH OR TRAY. UNDER NO CIRCUMSTANCES WILL CABLE BE EXPOSED.
EACH WORKSPACE ANNOTATED WILL HAVE A MINIMUM OF ONE SHIELDED TWISTED PAIR (STP) OUTLET CONSISTING OF THREE COLOR STP CABLES, PLENUM RATED: BLACK
= VOICE, IVORY = DATA, OR GRAY = LAN.
EACH NETWORK OUTLET FACEPLATE WILL INCORPORATE ONE TO THREE MODULAR, UNIVERSAL RJ-45 IDC JACK SOCKETS MEETING CATEGORY 6 SPECIFICATION.: BLACK = VOICE, IVORY = DATA, GRAY = LAN.
RJ45 I/O PIN OUT. THE CONTRACTOR WILL UTILIZE THE ANSI/EIA/TIA-568A PIN OUT DESIGNATION 568A.

KEY PLAN

GRAPHIC SCALE

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

CONSULTANT IDENTIFICATION

STAMP OR SEAL

OWNER IDENTIFICATION

General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

BUILDING

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	
DISCIPLINE	SECURITY
PLAN TYPE	SECURITY GENERAL NOTES
SHEET NUMBER AND FILENAME	TSS002

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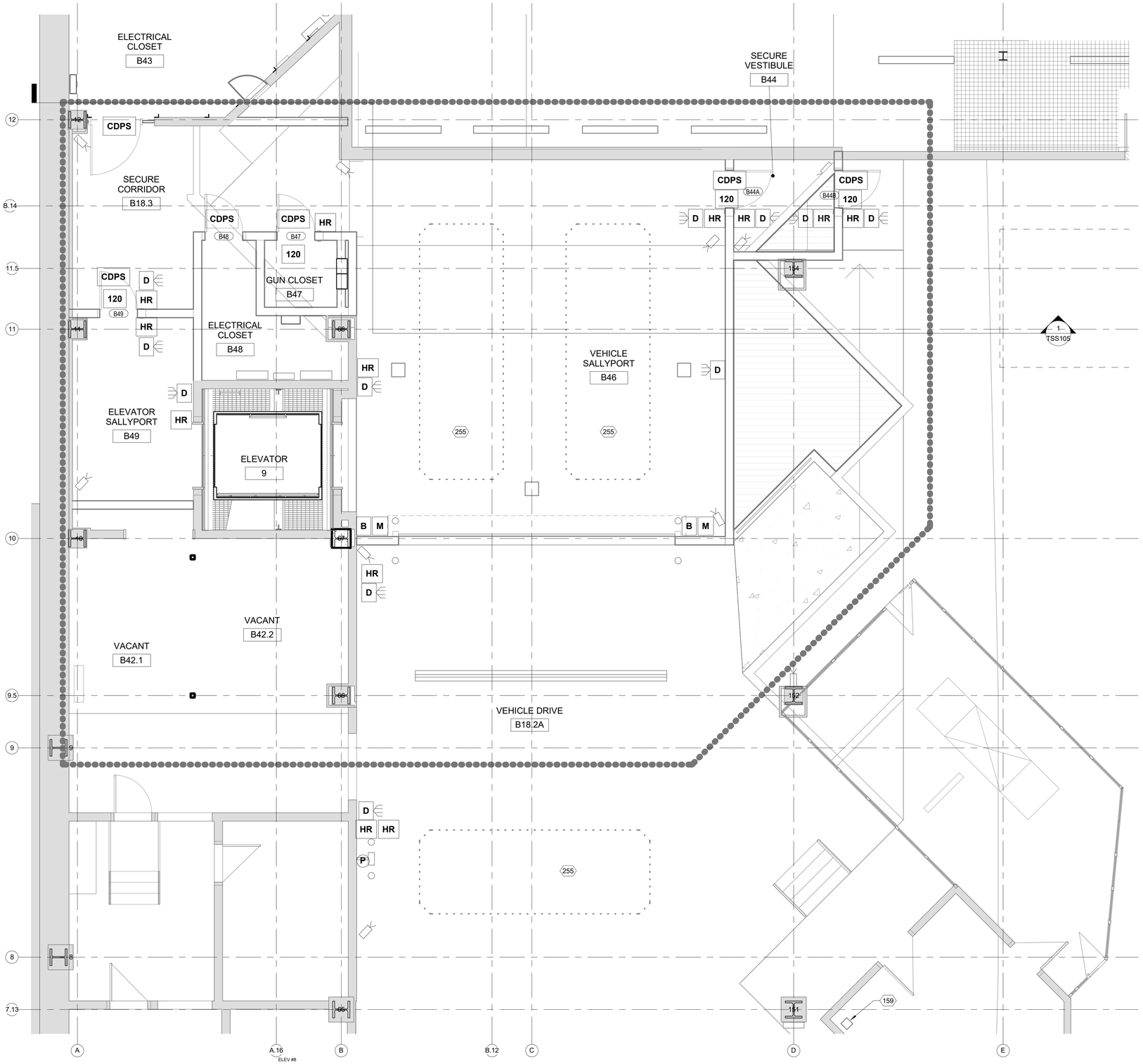


N

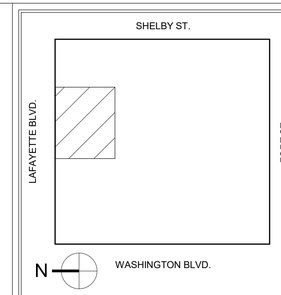
1 TSS100 BASEMENT FLOOR - VEHICLE SALLYPORT SECURITY PLAN - NEW
1/4" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
2. DIMENSIONS ARE MEASURED TO THE FACE OF PARTITION U.N.O.
3. ALL SWINGING DOORS WITHOUT KEY NUMBERS ARE EXISTING TO REMAIN. U.N.O.
4. WHERE EVER THE TERMINOLOGY (ABA) OCCURS, REFERENCE IS MADE TO THE ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARDS.
5. COORDINATE WORK WITH ALL OTHER TRADES.
6. WORK OUTSIDE THE CONTRACT LIMITS MAY BE REQUIRED FOR TIE-INS AND CONNECTIONS. CONTRACTOR TO WORK OUTSIDE OF THE CONTRACT LIMITS AS REQUIRED TO COMPLETE THE ENTIRE SCOPE OF WORK FOR THE PROJECT.
7. PATCH ANY OPENINGS, CORES, FASTENER HOLES, ETC. RESULTING FROM DEMOLITION.
8. CONTRACTOR SHALL LAYOUT WALL LOCATIONS AND REVIEW WITH ARCHITECT PRIOR TO CONSTRUCTING ANY PARTITIONS.
9. ALL DOORS REQUIRED CLEARANCE OF 18" PULL SIDE AND 12" PUSH SIDE U.N.O.
10. PROVIDE IN-WALL BLOCKING FOR WALL STOPS. REFER TO DOOR SCHEDULE.
11. CONTRACTOR TO REVIEW AND COORDINATE WALLS TO DECK WITH DEVICES SUPPORTED FROM STRUCTURAL DECK ABOVE INCLUDING BUT NOT LIMITED TO FIRE ALARM CONDUIT, JUNCTION BOXES, MECHANICAL DUCTWORK, ETC. CONTRACTOR TO JOG WALLS ABOVE CEILING AS REQUIRED TO AVOID CONFLICTS.
12. THE CONTRACTOR SHALL PROVIDE ALL INFRASTRUCTURE (CONDUITS AND BACK BOXES) FOR SECURITY ITEMS. DEVICES AND CABLING ARE SHOWN FOR REFERENCE ONLY AS THESE DEVICES AND CABLING/WIRING ARE TO BE INSTALLED BY OTHERS.
13. REFER TO A AND Q SERIES SHEETS FOR REMOTE OPERATION OF DOORS AND ELEVATORS.
14. REFER TO TSS001 AND TSS002 FOR SECURITY GENERAL NOTES AND LEGEND.
15. REFER TO APPENDIX 03 - TSS BACKBOXES AND RACEYWAYS WITHIN THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
16. ALL EXISTING SECURITY DEVICES INCLUDING BUT NOT LIMITED TO DURESS ALARMS, CAMERAS, CARD READERS, INTERCOMS, SCRAMBLE PADS, X-RAY MACHINES, AND MAGNETOMETERS ARE TO BE REMOVED BY THE USMS OR THEIR SUBCONTRACTOR, MC DEAN.

KEYED NOTES

NUMBER	DESCRIPTION
159	PROVIDE REMOTE OPERATION BUTTON AT CONSOLE FOR OPERATION OF NEW COILING OVERHEAD DOOR IN EXISTING BASEMENT LOADING DOCK BOOTH.
255	COORDINATE DEPTH AND WIDTH OF CUTS IN PAVING WITH LOOP DETECTOR MANUFACTURER - APPROX. 2" DEEP AND 1/4" WIDE. ANGLE CORNERS TO ACCOMMODATE BENDS IN LOOP DETECTOR WIRE.



KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

CONSULTANT IDENTIFICATION

STAMP OR SEAL

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	BASEMENT FLOOR
DISCIPLINE	SECURITY
PLAN TYPE	NEW SECURITY PLAN
SHEET NUMBER AND FILENAME	TSS100

SHEET

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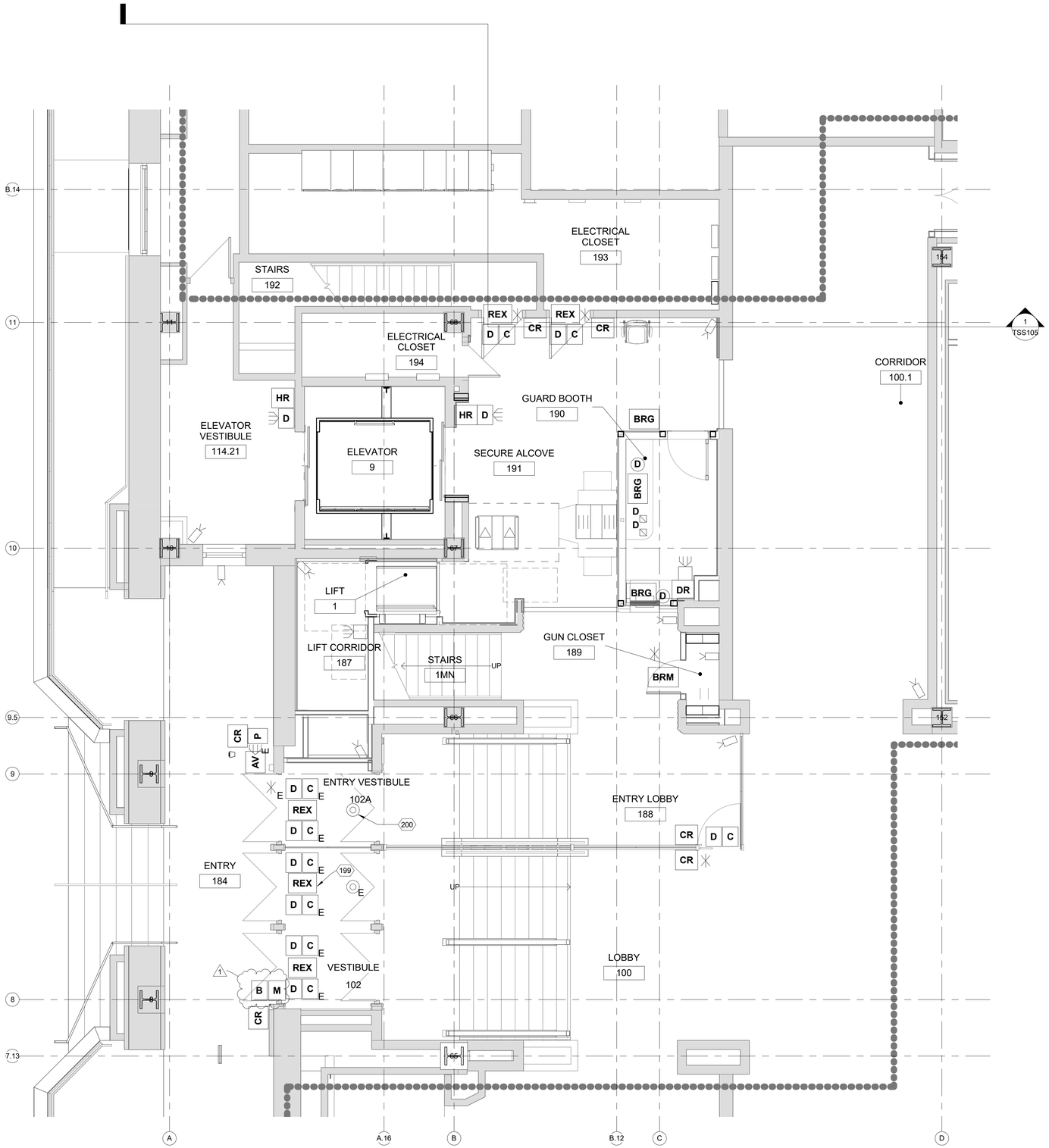

N

1 TSS101 FIRST FLOOR - NORTH LAFAYETTE SECURITY PLAN - NEW
1/4" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
2. DIMENSIONS ARE MEASURED TO THE FACE OF PARTITION U.N.O.
3. ALL SWINGING DOORS WITHOUT KEY NUMBERS ARE EXISTING TO REMAIN. U.N.O.
4. WHERE EVER THE TERMINOLOGY (ABA) OCCURS, REFERENCE IS MADE TO THE ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARDS.
5. COORDINATE WORK WITH ALL OTHER TRADES.
6. WORK OUTSIDE THE CONTRACT LIMITS MAY BE REQUIRED FOR TIE-INS AND CONNECTIONS. CONTRACTOR TO WORK OUTSIDE OF THE CONTRACT LIMITS AS REQUIRED TO COMPLETE THE ENTIRE SCOPE OF WORK FOR THE PROJECT.
7. PATCH ANY OPENINGS, CORES, FASTENER HOLES, ETC. RESULTING FROM DEMOLITION.
8. CONTRACTOR SHALL LAYOUT WALL LOCATIONS AND REVIEW WITH ARCHITECT PRIOR TO CONSTRUCTING ANY PARTITIONS.
9. ALL DOORS REQUIRED CLEARANCE OF 18" PULL SIDE AND 12" PUSH SIDE U.N.O.
10. PROVIDE IN-WALL BLOCKING FOR WALL STOPS. REFER TO DOOR SCHEDULE.
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13. REFER TO A AND Q SERIES SHEETS FOR REMOTE OPERATION OF DOORS AND ELEVATORS.
14. REFER TO TSS001 AND TSS002 FOR SECURITY GENERAL NOTES AND LEGEND.
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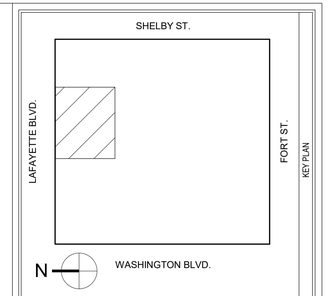
KEYED NOTES

NUMBER	DESCRIPTION
199	MOUNT NEW REQUEST TO EXIT DEVICE ON WALL ABOVE DOOR FRAME HEADER - TYP. OF 3.
200	MOUNT NEW GLASS BREAK SENSOR ON HISTORIC CEILING TIGHT TO EXISTING WALL, SIMILAR TO EXISTING GLASS BREAK SENSOR TO REMAIN. TAKE PRECAUTION TO PROTECT EXISTING CEILING TO REMAIN.



KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION
1	02/15/2023	100% Revision

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

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BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	SECURITY
PLAN TYPE	NEW SECURITY PLAN
SHEET NUMBER AND FILENAME	TSS101

SHEET

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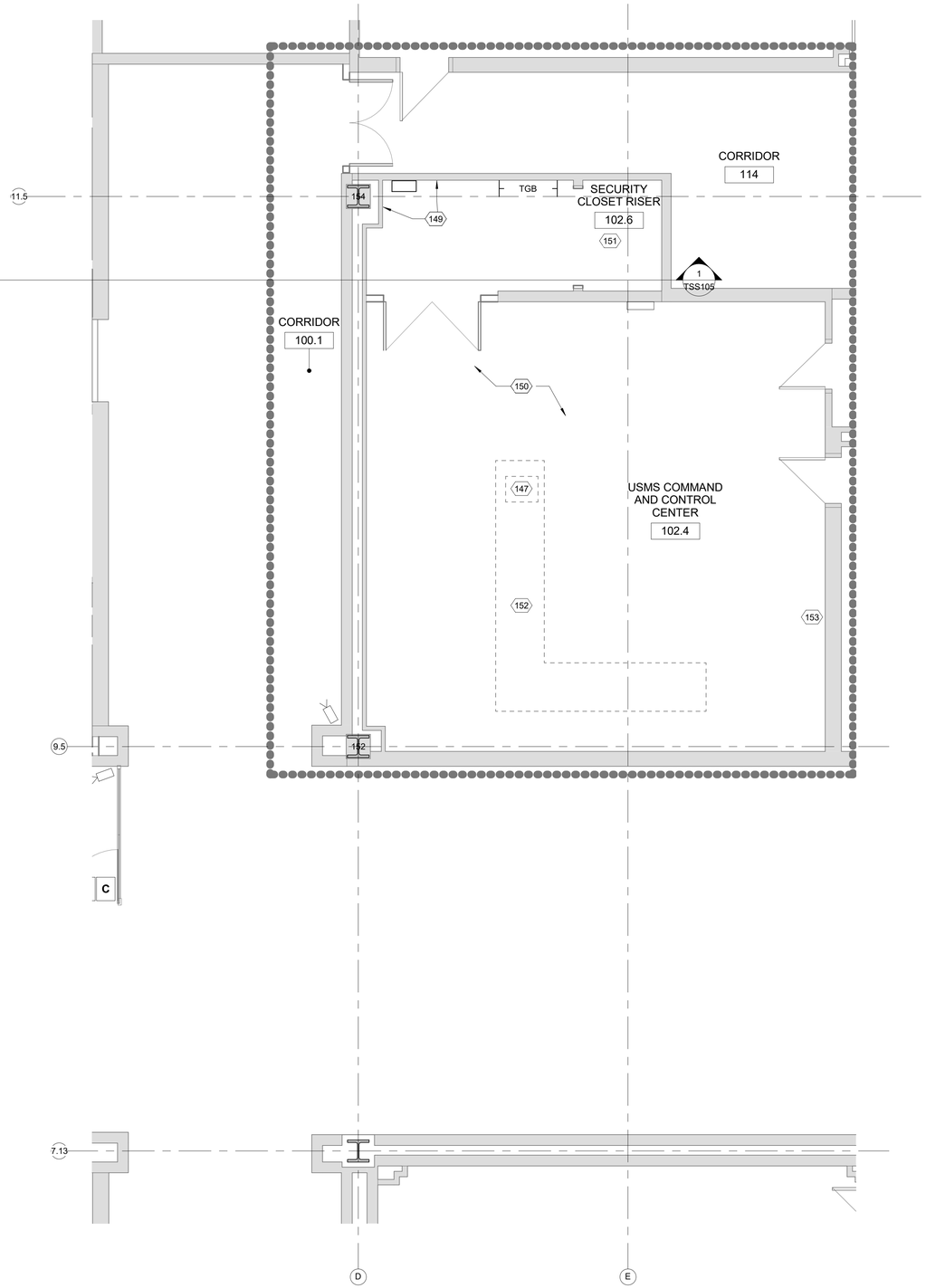

N

1 TSS102 FIRST FLOOR - NORTH LAFAYETTE SECURITY PLAN - NEW
1/4" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
2. DIMENSIONS ARE MEASURED TO THE FACE OF PARTITION U.N.O.
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10. PROVIDE IN-WALL BLOCKING FOR WALL STOPS. REFER TO DOOR SCHEDULE.
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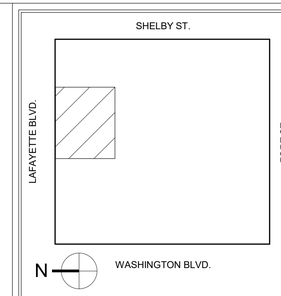
KEYED NOTES

NUMBER	DESCRIPTION
147	PROVIDE APPROXIMATELY 19"X24" ELEVATOR #9 CONTROL PANEL WITH GRAPHICS, CONTROL BUTTONS AND INDICATOR LIGHTS IN FURNITURE MODULE PROVIDED BY OTHERS. COMPLETE AS A FULL TURN-KEY INSTALLATION.
149	WALL MOUNT CONTROL BOXES AND MODULES REQUIRED FOR A TURN-KEY INSTALLATION OF THE ELEVATOR AND THE DETENTION DOOR CONTROL PANELS ON A NEW PAINTED, FIRE-RESISTANT PLYWOOD BACKBOARD. TWO (2) 4'X8' SHEETS RUN HORIZONTALLY.
150	EXISTING RAISED FLOOR FOR ACCESS TO OPEN WIREWAY.
151	ACCESS TO RAISED FLOOR FROM CLOSET. CORE THROUGH CONCRETE FLOOR SLAB TO ACCOMMODATE NEW CONDUITS RUNNING FOR NEW CONTROL PANELS.
152	COMMAND CENTER FURNITURE MODULE BY OTHERS.
153	PROVIDE WALL MOUNTED ELEVATOR STOP / RETURN TO 1ST FLOOR BUTTON.



KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

CONSULTANT IDENTIFICATION

STAMP OR SEAL

General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

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ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	SECURITY
PLAN TYPE	NEW SECURITY PLAN
SHEET NUMBER AND FILENAME	TSS102

SHEET

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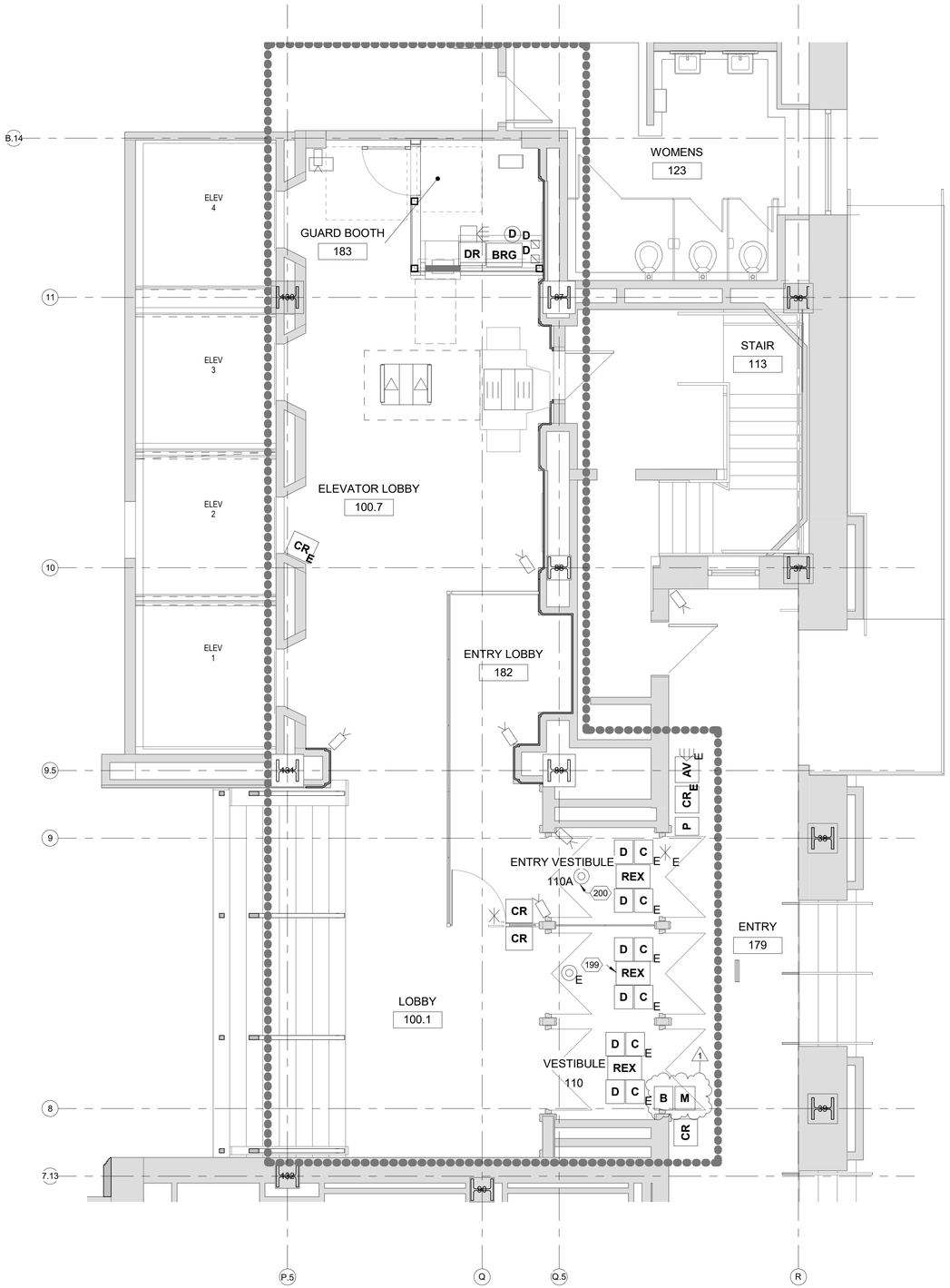

N

1 TSS103 FIRST FLOOR - SOUTH FORT STREET SECURITY PLAN - NEW
1/4" = 1'-0"

GENERAL NOTES

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4. WHERE EVER THE TERMINOLOGY (ABA) OCCURS, REFERENCE IS MADE TO THE ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARDS.
5. COORDINATE WORK WITH ALL OTHER TRADES.
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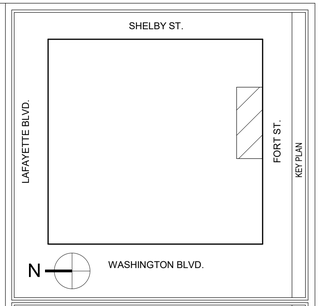
KEYED NOTES

NUMBER	DESCRIPTION
199	MOUNT NEW REQUEST TO EXIT DEVICE ON WALL ABOVE DOOR FRAME HEADER - TYP. OF 3.
200	MOUNT NEW GLASS BREAK SENSOR ON HISTORIC CEILING TIGHT TO EXISTING WALL, SIMILAR TO EXISTING GLASS BREAK SENSOR TO REMAIN. TAKE PRECAUTION TO PROTECT EXISTING CEILING TO REMAIN.



KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION
1	02/15/2023	100% Revision

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
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248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

CONSULTANT IDENTIFICATION

STATE OF MICHIGAN
SCOTT W. GOODSELL
ARCHITECT
No. 1301047664
LICENSED ARCHITECT

STAMP OR SEAL

GSA
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Public Buildings Service
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BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	SECURITY
PLAN TYPE	NEW SECURITY PLAN
SHEET NUMBER AND FILENAME	TSS103

SHEET

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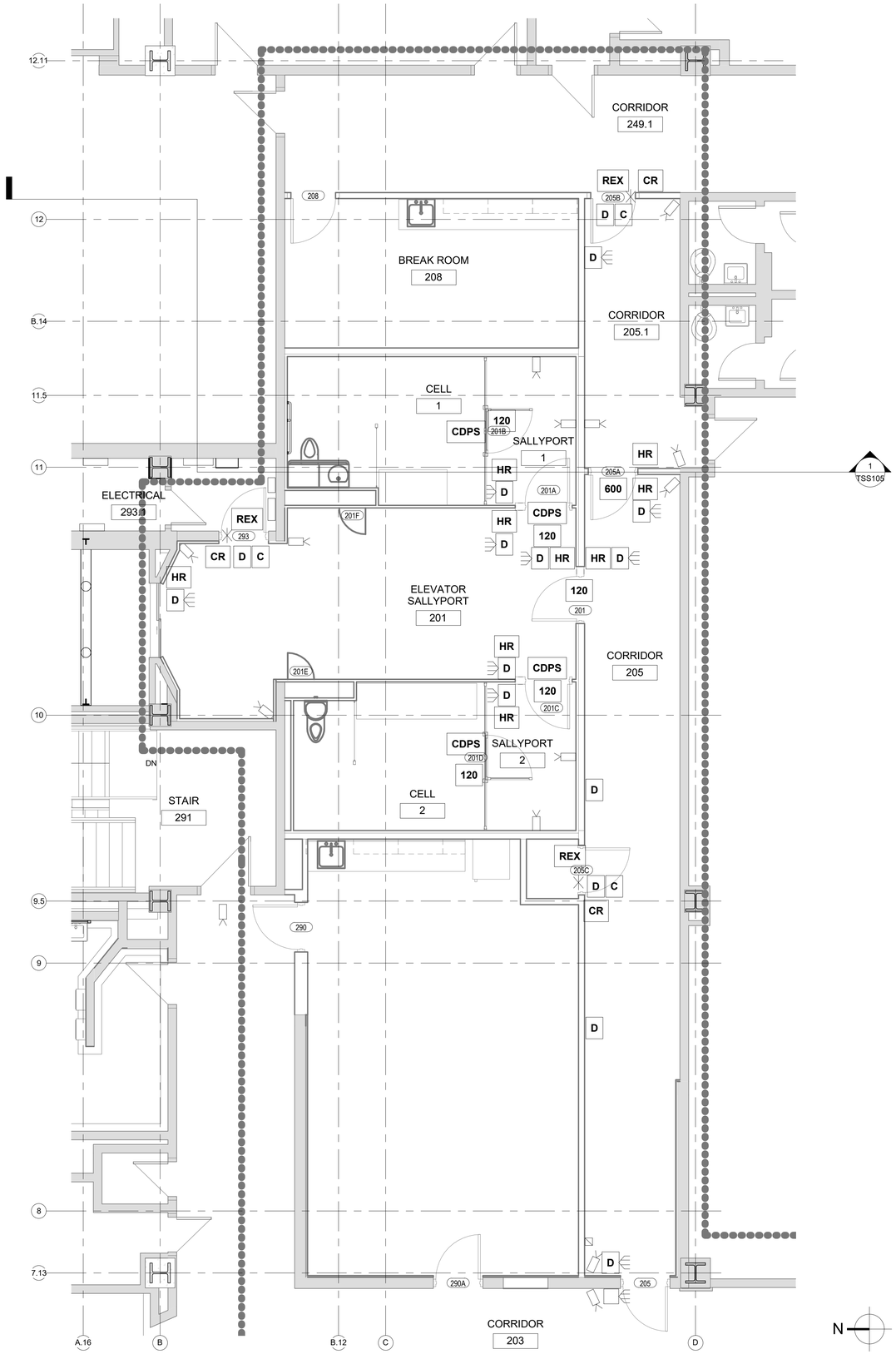

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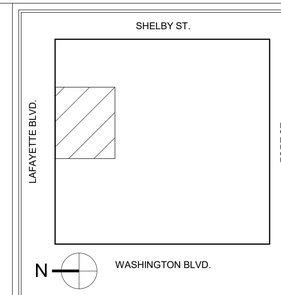
N

1 TSS104 SECOND FLOOR ENLARGED PLAN - OPTION 1 SECURITY PLAN - NEW
1/4" = 1'-0"



KEY PLAN

1/4"=1'-0" 0 4' 8'

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

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LICENSED ARCHITECT

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CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	SECOND FLOOR
DISCIPLINE	SECURITY
PLAN TYPE	NEW SECURITY PLAN
SHEET NUMBER AND FILENAME	TSS104

SHEET

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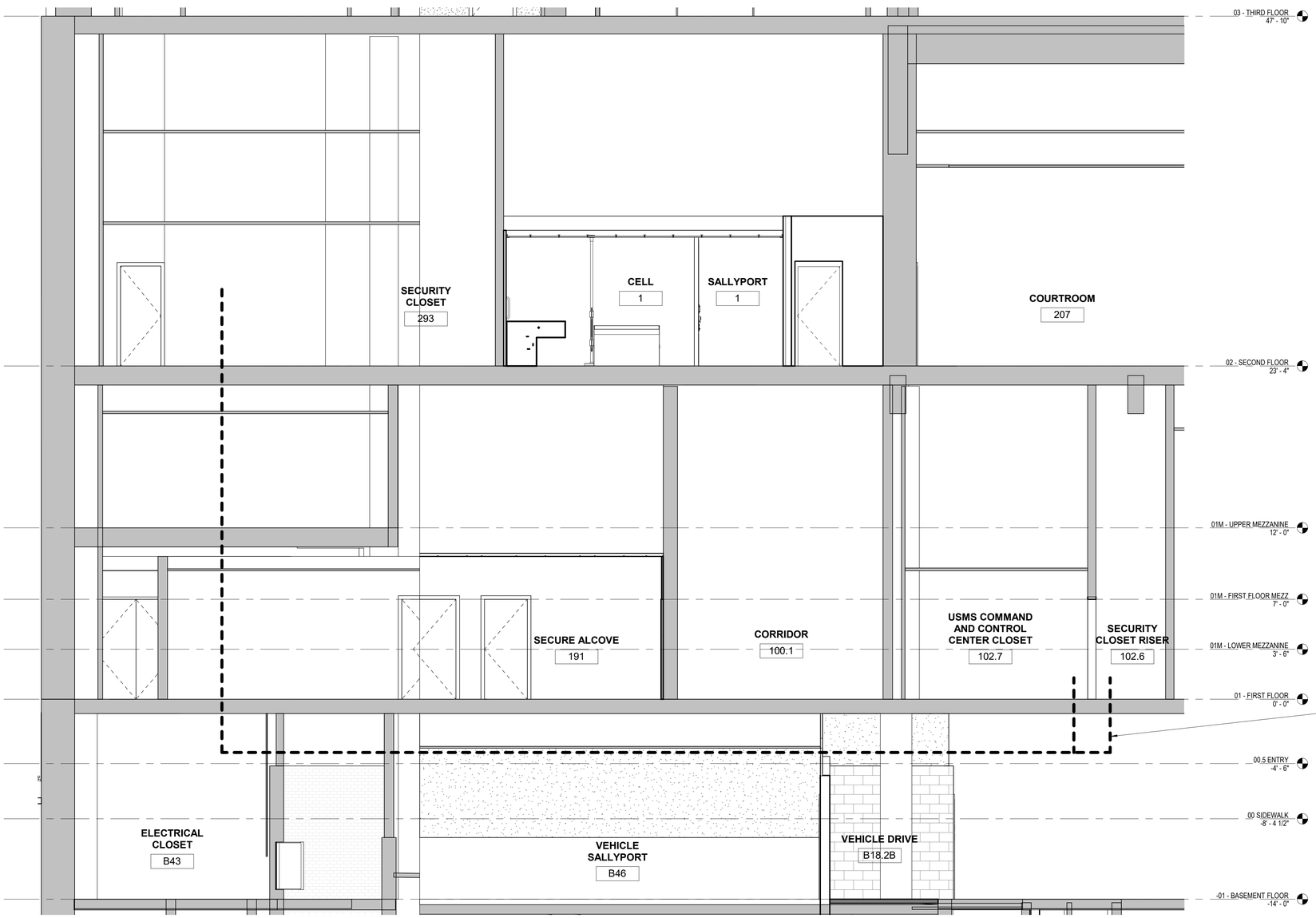

CONDUIT AND RISER DIAGRAM FOR REFERENCE ONLY. CONTRACTOR TO COORDINATE WORK WITH ALL OTHER TRADES. CONDUIT TO BE INSTALLED TIGHT TO STRUCTURE ABOVE. COORDINATE EXACT CORING PENETRATIONS FOR ALL WALLS AND FLOORS IN THE FIELD. PROVIDE 2-HOUR PENETRATION FIREPROOFING AT ALL CORE LOCATIONS.

1 / TSS105 SECURITY RISER DIAGRAM
1/4" = 1'-0"

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KEY PLAN

GRAPHIC SCALE
1/4"=1'-0" 0 4' 8'

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

DESIGNER IDENTIFICATION

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Chicago, IL 60604

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CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

PROJECT

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	
DISCIPLINE	SECURITY
PLAN TYPE	SECTION
SHEET NUMBER AND FILENAME	TSS105

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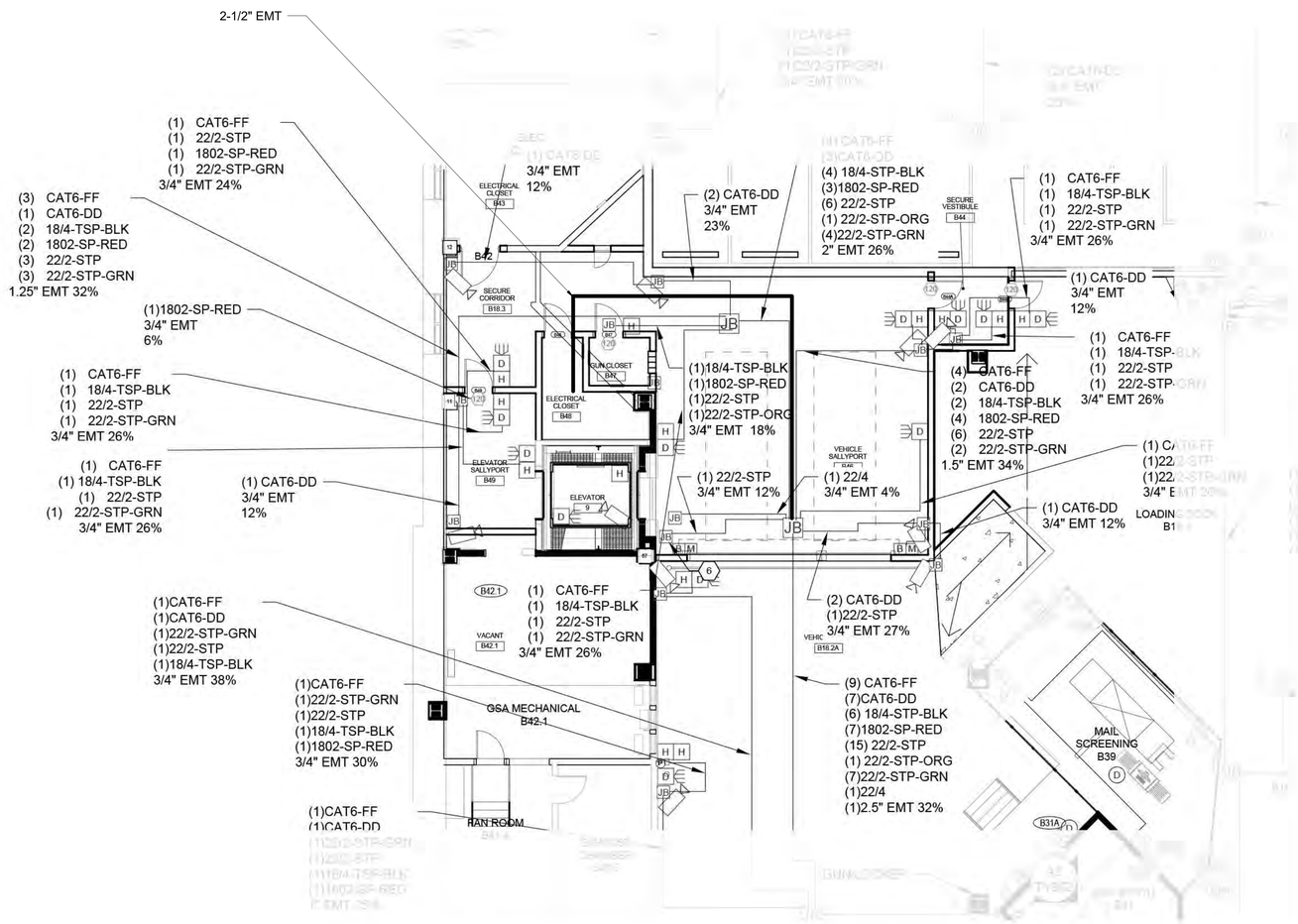

BASEMENT FLOOR - VEHICLE SALLYPORT - REFERENCE SECURITY DRAWING

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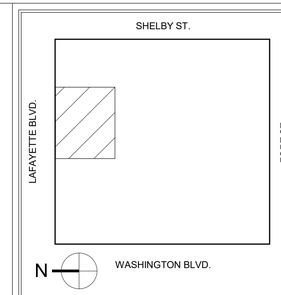
8. OTHER CONDUITS, BOXES AND DEVICES SHOWN OUTSIDE OF THE WORK AREA ARE NOT REQUIRED
9. REFER TO ELECTRICAL DRAWINGS FOR CONDUITS AND RISER LOCATIONS WITHIN THE PROJECT AREA TO CONNECT INFRASTRUCTURE BETWEEN BASEMENT, FIRST AND SECOND FLOORS AS REQUIRED FOR NEW WORK.

KEY PLAN



GRAPHIC SCALE

NOT TO SCALE

REVISION BLOCK

MARK	DATE	DESCRIPTION

CONTRACT

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PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	BASEMENT FLOOR
DISCIPLINE	SECURITY
PLAN TYPE	REFERENCE SALLYPORT
SHEET NUMBER AND FILENAME	REF 001

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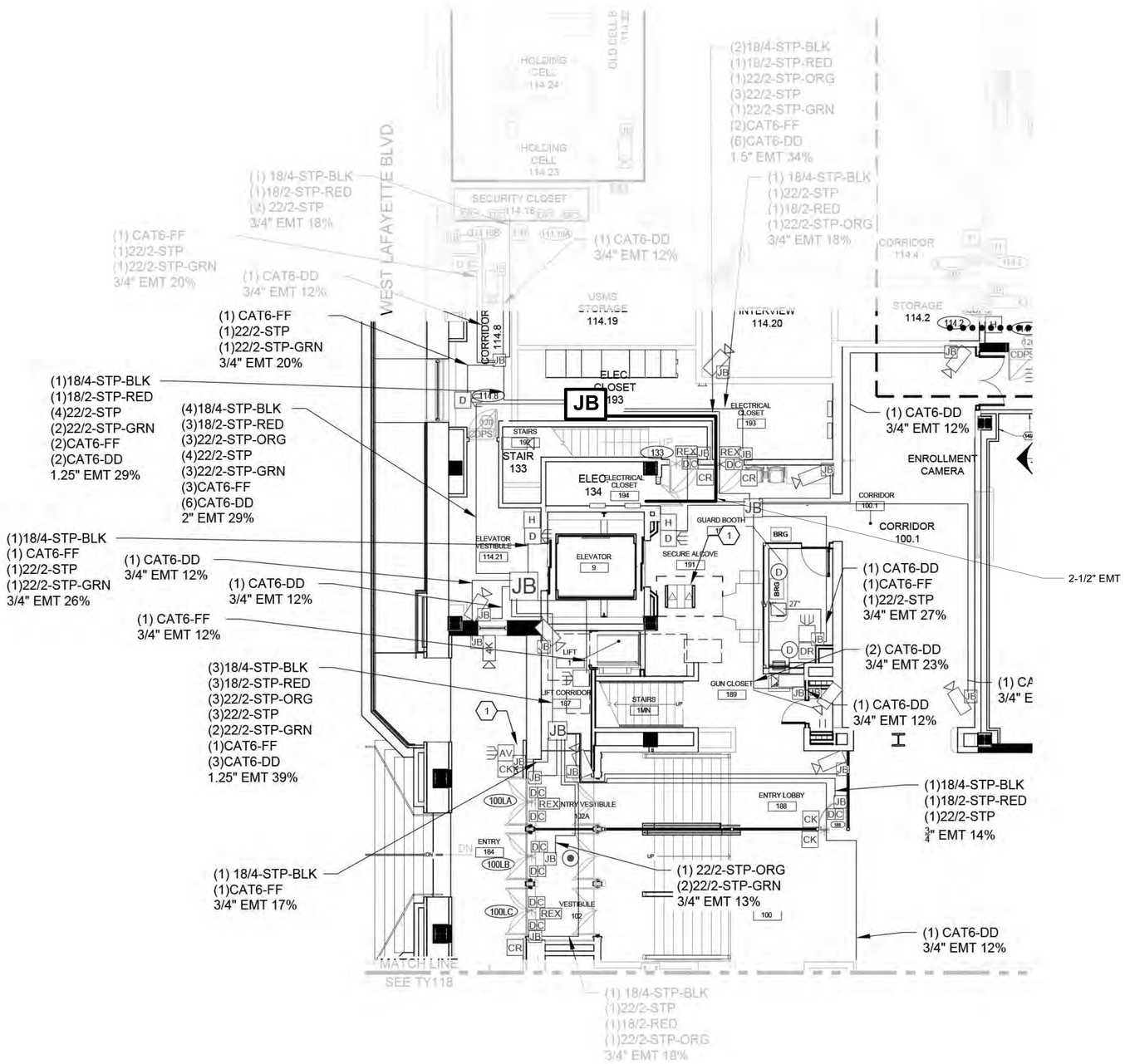

FIRST FLOOR - LAFAYETTE - REFERENCE SECURITY DRAWING

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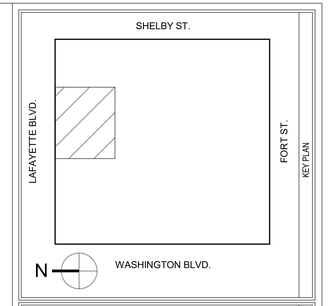

KEY PLAN

GRAPHIC SCALE: NOT TO SCALE

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PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

SHEET

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	SECURITY
PLAN TYPE	REFERENCE LAFAYETTE
SHEET NUMBER AND FILENAME	REF 002

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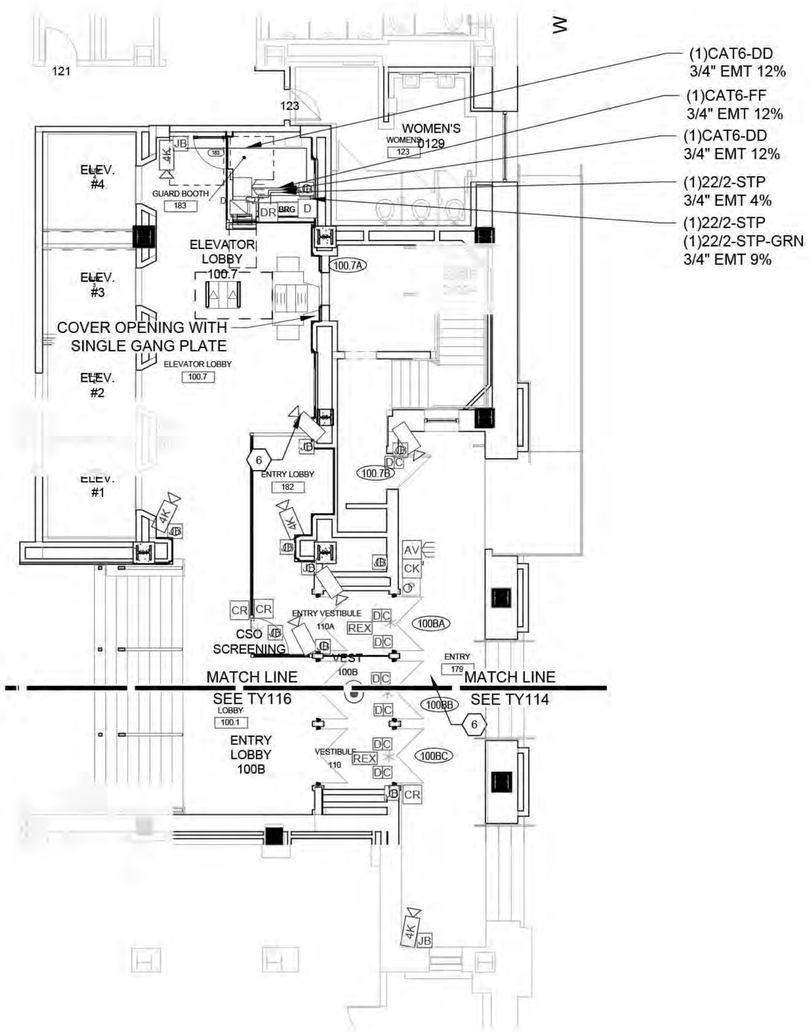
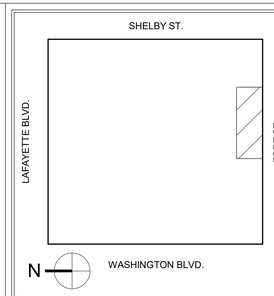


FIRST FLOOR - FORT STREET - REFERENCE SECURITY DRAWING

GENERAL NOTES

1. CONTRACTOR SHALL COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
2. COORDINATE WORK WITH ALL OTHER TRADES.
3. WORK OUTSIDE THE CONTRACT LIMITS MAY BE REQUIRED FOR TIE-INS AND CONNECTIONS. CONTRACTOR TO WORK OUTSIDE OF THE CONTRACT LIMITS AS REQUIRED TO COMPLETE THE ENTIRE SCOPE OF WORK FOR THE PROJECT.
4. THE CONTRACTOR SHALL PROVIDE ALL INFRASTRUCTURE (CONDUITS AND BACK BOXES) FOR SECURITY ITEMS. DEVICES AND CABLING ARE SHOWN FOR REFERENCE ONLY AS THESE DEVICES AND CABLING/WIRING ARE TO BE INSTALLED BY OTHERS.
5. REFER TO TSS001 AND TSS002 FOR SECURITY GENERAL NOTES AND LEGEND. REFER TO TSS101-TSS104 FOR SECURITY DRAWINGS.
6. REFER TO APPENDIX 03 - TSS BACKBOXES AND RACEYWAYS WITHIN THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. CONDUITS AND BOX LOCATIONS SHOWN ARE INTENDED TO SHOW THE GENERAL CONCEPT AND SIZING OF THE COMPONENTS. FIELD CONDITIONS AND OTHER TRADES MAY PREVENT COMPONENTS FROM BEING INSTALLED EXACTLY AS SHOWN. GENERALLY INSTALL NEW CONDUITS AND BOXES IN OPEN CEILINGS AT LEAST 10 FT ABOVE FINISHED FLOOR.
8. OTHER CONDUITS, BOXES AND DEVICES SHOWN OUTSIDE OF THE WORK AREA ARE NOT REQUIRED
9. REFER TO ELECTRICAL DRAWINGS FOR CONDUITS AND RISER LOCATIONS WITHIN THE PROJECT AREA TO CONNECT INFRASTRUCTURE BETWEEN BASEMENT, FIRST AND SECOND FLOORS AS REQUIRED FOR NEW WORK.



KEY PLAN

NOT TO SCALE

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
Royal Oak, MI 48067
248.542.7866/www.ghfaa.com

DESIGNER IDENTIFICATION

CONSULTANT IDENTIFICATION

STAMP OR SEAL

GSA
General Services Administration
Public Buildings Service
Great Lakes
Customer Projects Service Center
John C. Kluczynski Federal Building
230 South Dearborn St.
Room 3500
Chicago, IL 60604

OWNER IDENTIFICATION

BUILDING NAME	THEODORE LEVIN U.S. COURTHOUSE
ADDRESS	231 WEST LAFAYETTE
CITY, STATE, ZIP	Detroit, Michigan 48226
BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	FIRST FLOOR
DISCIPLINE	SECURITY
PLAN TYPE	REFERENCE FORT ST
SHEET NUMBER AND FILENAME	REF 003

SHEET

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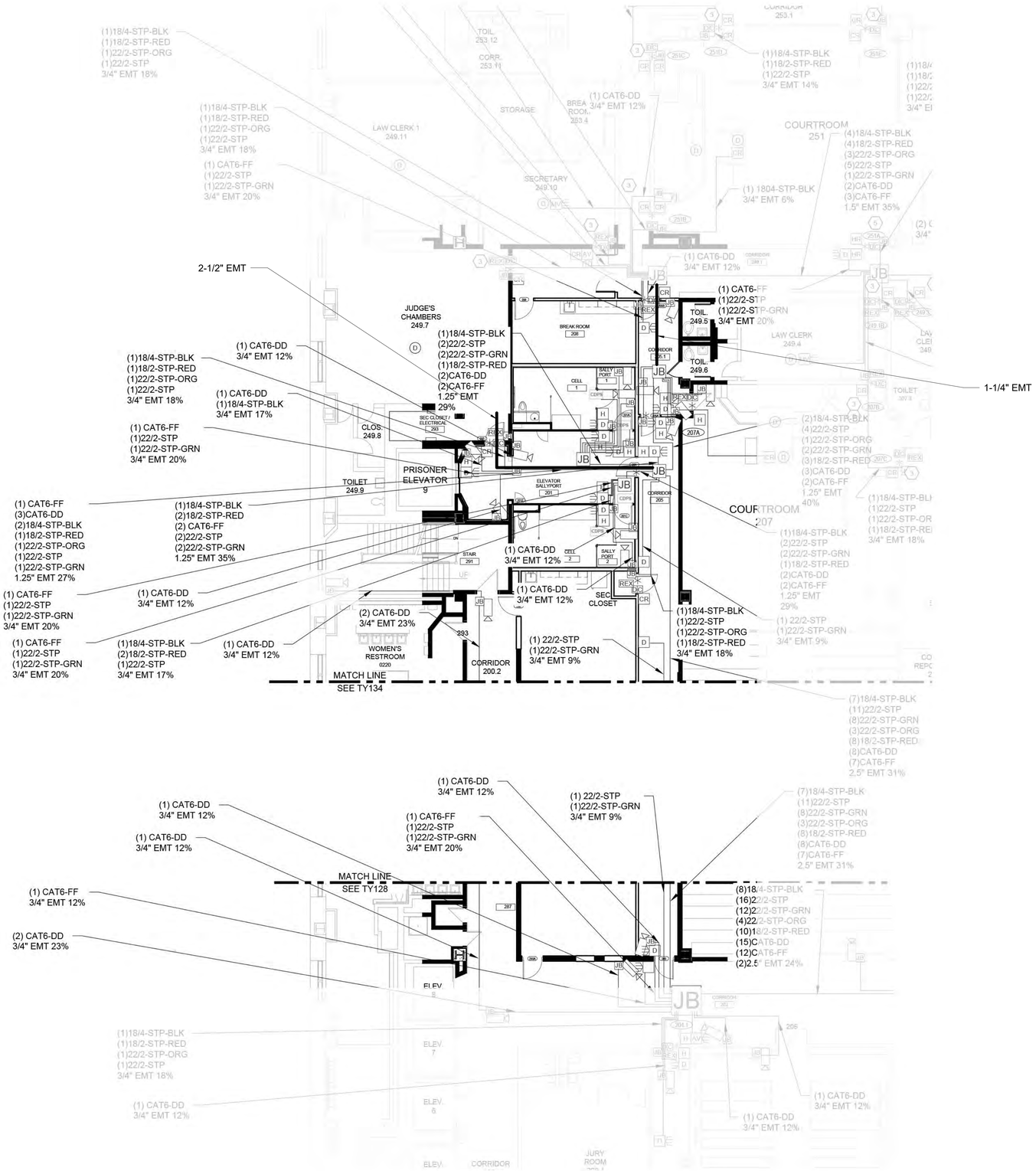
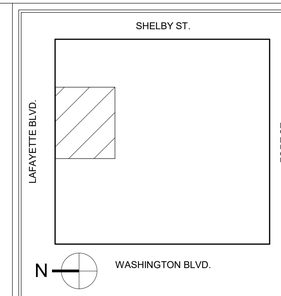


SECOND FLOOR - OPTION 1 - REFERENCE SECURITY DRAWING

GENERAL NOTES

1. CONTRACTOR SHALL COMPLY WITH THE GOVERNMENTS RULES AND REGULATIONS.
2. COORDINATE WORK WITH ALL OTHER TRADES.
3. WORK OUTSIDE THE CONTRACT LIMITS MAY BE REQUIRED FOR TIE-INS AND CONNECTIONS. CONTRACTOR TO WORK OUTSIDE OF THE CONTRACT LIMITS AS REQUIRED TO COMPLETE THE ENTIRE SCOPE OF WORK FOR THE PROJECT.
4. THE CONTRACTOR SHALL PROVIDE ALL INFRASTRUCTURE (CONDUITS AND BACK BOXES) FOR SECURITY ITEMS. DEVICES AND CABLING ARE SHOWN FOR REFERENCE ONLY AS THESE DEVICES AND CABLING/WIRING ARE TO BE INSTALLED BY OTHERS.
5. REFER TO TSS001 AND TSS002 FOR SECURITY GENERAL NOTES AND LEGEND. REFER TO TSS101-TSS104 FOR SECURITY DRAWINGS.
6. REFER TO APPENDIX 03 - TSS BACKBOXES AND RACEYWAYS WITHIN THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. CONDUITS AND BOX LOCATIONS SHOWN ARE INTENDED TO SHOW THE GENERAL CONCEPT AND SIZING OF THE COMPONENTS. FIELD CONDITIONS AND OTHER TRADES MAY PREVENT COMPONENTS FROM BEING INSTALLED EXACTLY AS SHOWN. GENERALLY INSTALL NEW CONDUITS AND BOXES IN OPEN CEILINGS AT LEAST 10 FT ABOVE FINISHED FLOOR.
8. OTHER CONDUITS, BOXES AND DEVICES SHOWN OUTSIDE OF THE WORK AREA ARE NOT REQUIRED
9. REFER TO ELECTRICAL DRAWINGS FOR CONDUITS AND RISER LOCATIONS WITHIN THE PROJECT AREA TO CONNECT INFRASTRUCTURE BETWEEN BASEMENT, FIRST AND SECOND FLOORS AS REQUIRED FOR NEW WORK.



KEY PLAN

NOT TO SCALE

GRAPHIC SCALE

MARK	DATE	DESCRIPTION

REVISION BLOCK

A/E CONTRACT NO.	47PF0019D0019
DELIVER ORDER NO.	47PF0021F0822
CONST. CONTRACT NO.	

CONTRACT

FORBES ASSOCIATES ARCHITECTS
816 E 4th ST.
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BUILDING NO.	MI0029ZZ

BUILDING

PROJECT TITLE	CAPITAL SECURITY PROJECT
GSA PROJECT NO.	VMI00051
SUBMISSION STAGE	CONSTRUCTION DOCUMENTS
SUBMISSION DATE	02/15/2023

PROJECT

DRAWN BY	SP
CHECKED BY	SWG
FLOOR NO.	SECOND FLOOR
DISCIPLINE	SECURITY
PLAN TYPE	REFERENCE OPTION 1
SHEET NUMBER AND FILENAME	REF 004

SHEET

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