SECTION 01030 – PROVISIONAL

SUMMARY OF WORK

Provisional Specification Summary:

1.1 – Add the following subsections as shown below:

(Update text as shown.)

PART 1 – GENERAL

1.1 SCOPE

1.1.01 Overview.

The scope of work includes, but is not limited to:

A. Demolition and replacement of concentric effluent trough assemblies in each of Clarifiers No. 13-16

1. Each trough shall be 2'-0" wide, 18" deep and shall be 5/16" thick Type 316L stainless steel.
2. Troughs shall be complete with support clip angles and hardware for field mounting/bolting to trough supports. The segments are to be field welded between the effluent boxes.
3. Effluent trough support brackets to be fabricated from Type 316L stainless steel and mounted using Type 316 stainless steel wall anchorages. Existing anchorages shall be field cut flush with wall. Field drilling of support brackets will be required to match launder clips (details of troughs, trough supports, weir plates and field welds are shown on Drawing No. 410).

B. Demolition and replacement of concentric baffles in each of Clarifiers No. 13-16

1. Perimeter scum baffle plate shall extend around each clarifier 6'-0" from the basin wall and shall be made of 5/16" thick Type 316L stainless steel. The segments are to be field welded.
2 Baffle shall have an adjustable height as indicated on the drawings and field mounted/bolted to trough supports.

C. Demolition and replacement of one hundred twelve (112) effluent boxes (24 each for Clarifiers No. 13 and 14 and 32 each for Clarifiers No. 15 and 16) with end plates for sealing, for collection of the clarified water out of the clarifiers:

1. Each effluent box shall be 5/16” thick Type 316L stainless steel, complete with support angles and hardware for field attachment to existing basin wall.
2. Include stainless steel angle mounting at basin wall. Anchorages for existing effluent boxes shall be field cut flush with wall and replaced with new Type 316 stainless steel wall anchorages.
3. Include one (1) –lot neoprene gasket, 3/8” thick x 1-1/2” wide, field cut to seal one hundred twelve (112) effluent boxes (24 per basin in Clarifiers No. 13 and 14 and 32 per basin in Clarifiers No. 15 and 16) where they attach to the basin walls.

D. Demolition and replacement of 9” wide adjustable weir plates for effluent troughs and effluent boxes fabricated from 5/16” Type 316 stainless steel plate with 4” deep v-notches, in Clarifiers No. 13-16.

1. Gaskets, weir mounting clips and studs shall be included.

E. Demolition and replacement of all components of the circular primary clarifier mechanisms in Clarifiers No. 13 and 14, with the exception of the new center drives and center drive platforms; the center cage support pipes; the existing inlet orifice plates; the existing scum deflectors; the skimmer arms and their supports; the scum troughs and conveyors; and the bridge and grating walkways with their associated handrails and toeplates, as follows:

1. Replace the demolished equipment with new equipment, including center cages; influent dispersion wells; rotating rake arms and spiral blade sludge scrapers; spare parts; and wiring and conduit between all equipment and panels.
2. Remove lead paint from existing painted bridge walkway surfaces, including handrails, and repaint. Also paint all exposed and submerged new ferrous surfaces and submerged existing ferrous surfaces including, but not limited to, rotating clarifier mechanism (trussed rake arms, center cages), and center cage support assembly.
3. Toward the end of construction, as directed by the Engineer, refurbish ONE (1) Eimco Model # C120B2P center drive that is currently being stored outdoors at the DWWTP. Transportation to be provided by the vendor. Refurbishment shall be done by DWSD-approved Eimco-

certified repair facility. After refurbishment, the center drive shall be properly wrapped and packed by the repair facility for long-term storage.

4. Provide technical service for equipment check, start-up and instructions to operating personnel.

F. Installation of new light fixtures and lamps on the bridges of Clarifiers No. 13 and 14.

G. Installation of one new 60-amp welding receptacle on each of the platforms of Clarifiers No. 13 through 16.

H. Demolition and replacement of the groundwater pressure relief systems for Clarifiers No. 13 and 14.

I. Resurfacing of the concrete base slabs of Clarifiers No. 13 and 14.

J. Structural analysis of existing center cage support column assembly of Clarifier No. 13.

1. Clean and test the existing center cage support assembly to determine the steel thickness of the support columns and their adequacy to support the clarifier mechanism.
2. Perform a structural analysis to determine whether replacement of center cage support assembly is necessary.
3. Provide a cleaning and testing work plan for review and approval by the Engineer.
4. The testing shall be done by independent third party material testing firm and testing results and structural analysis shall be signed and sealed by a professional engineer registered in the state of Michigan.

End of Provisional Section