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Addendum No. 1
HUFFAKER PL WELL

PWP No.: WA-2015-249
TMWA Project No.: 15-0017
August 24, 2015

The following information, clarifications, changes and modifications are by reference incorporated into the bid documents for the above referenced project. Any work item or contract provision not changed or modified will remain in full force and effect. The bid date and time and construction schedule remain the same.

A. Questions/Clarifications:

Question No. 1	Detail 3123-121 The Bore and Jack Detail calls out a 16" casing pipe, but note 3 on that detail calls for the casing pipe to have an 18" ID. My question is, is the casing pipe intended to be 16" or 18" ID?
Response No. 1	Please see attached modified Standard Detail 3123-121. Steel casing diameter shall be 16". See Note #3 regarding required wall thickness for casing.
Question No. 2	The pipe schedule on DWG G-7 Call out PRJ (Proprietary restrained joints) for CLDI piping, indicating Spec section 40 27 00.01 for ductile iron pipe and fittings. Proprietary restrained joint fittings are clearly called out as Either a U.S. TR flex type fittings with weld bead on pipe and locking segments or Tyton joint fittings with US Field lock gaskets O.E. with stainless steel teeth embedded in the rubber. My question is, being as the plans clearly show and reference mechanical joint fittings and valves with mechanical joints, as seen on all of the keynotes on DWG C-6. Is it the engineer's intent to utilize Mechanical Restrained fittings as shown on the plans rather than the specified Proprietary restrained joints?
Response No. 2	Bell and spigot joints connecting lengths of ductile iron pipe shall be restrained as specified under Item "Joints" in Technical Specification Section 40 27 00.01 Ductile Iron Pipe and Fittings. Valves and fittings shall be flanged, mechanical joint, and/or push-on (PO) as specified in the Drawings. Mechanical joint fittings shall be restrained as specified under Item "Fittings" Mechanical Restrained in Technical Specification Section 40 27 00.01 Ductile Iron Pipe and Fittings. In addition, please reference Item #1 in the Technical Specifications section of this Addendum.

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Question No. 3	Spec section 33 41 01.03 (Polyvinyl Chloride PVC Drain Pipe) reads that the ASTM D3034 standard dimension ratio be less than 35. Which would then be SDR26. It goes on to allow SDR35 only if the cell classifications 12454 and 12364 are utilized as defined in ASTM D1784 /1. The cell classifications specified, are normally used in PVC resins for pressure piping requiring a greater elasticity and are not readily available in SDR35 sewer pipe. My question is, if we utilize the less than 35 dimension pipe (SDR26) would then, the pressure pipe cell classification requirements not apply?
Response No. 3	Please see attached modified Technical Specification Section 33 41 01.03 Polyvinyl Chloride (PVC) Drain Pipe.
Question No. 4	The M drawings M-1, M-2 and M-3 show a 3" flanged wye strainer in the 3" GWR line. The only wye strainer specification in the spec section 40 27 01 is for small diameter plastic wye strainers. Please furnish the specification for the 3" flanged wye strainer desired.
Response No. 4	Please reference Item #3 in the Technical Specifications section of this Addendum.

B. Technical Specifications:

1. Section 40 27 00.01 Ductile Iron Pipe and Fittings: DELETE the following text from Item "Fittings" in Technical Specification Section 40 27 00.01 Ductile Iron Pipe and Fittings: "Proprietary Restrained: AWWA C110/A21.10, AWWA C111/A21.11, and AWWA C153/A21.53, ductile iron, 250 psi minimum working pressure. Restraint shall be achieved with removable metal elements fitted between a welded bar on the pipe barrel and the inside of the joint bell. Assembled joints shall be rated for deflection in operation at rated pressure. Rated deflection shall be not less than 1-1/2 degrees for 36-inch and smaller pipe. Clow Corp., American Cast Iron Pipe Co., U.S. Pipe."
2. Section 33 41 01.03 Polyvinyl Chloride (PVC) Drain Pipe: REPLACE with attached modified Technical Specification Section 33 41 01.03 Polyvinyl Chloride (PVC) Drain Pipe.
3. Section 40 27 01 Process Piping Specialties: ADD the following under paragraph 2.08 MISCELLANEOUS SPECIALTIES

   D. Strainers, 3 inch:

      1. Type: Y(wye)-pattern
      2. Body and Access Cover: Lead free cast copper silicon alloy or low lead cast bronze. Supply with closure plug.
      3. Pressure Rating: Minimum 300 psi WOG at 180°F

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4. Screen: #20 mesh, 304 stainless steel. Screen must be accessible for maintenance without removing the device from the line.
5. End connections: 3-inch Female NPT. Provide 3-inch companion flanges and 3-inch NPT threaded nipples for connection to adjacent flanged pipe, fittings, and/or valves.
6. Certifications: Certified to NSF/ANSI 61 & 372 (NSF/ANSI 61 Annex G)
7. Manufacturer and Product: Zurn Wilkins Model SXL, Watts Series LF777SI, or equal.

C. Standard Details:

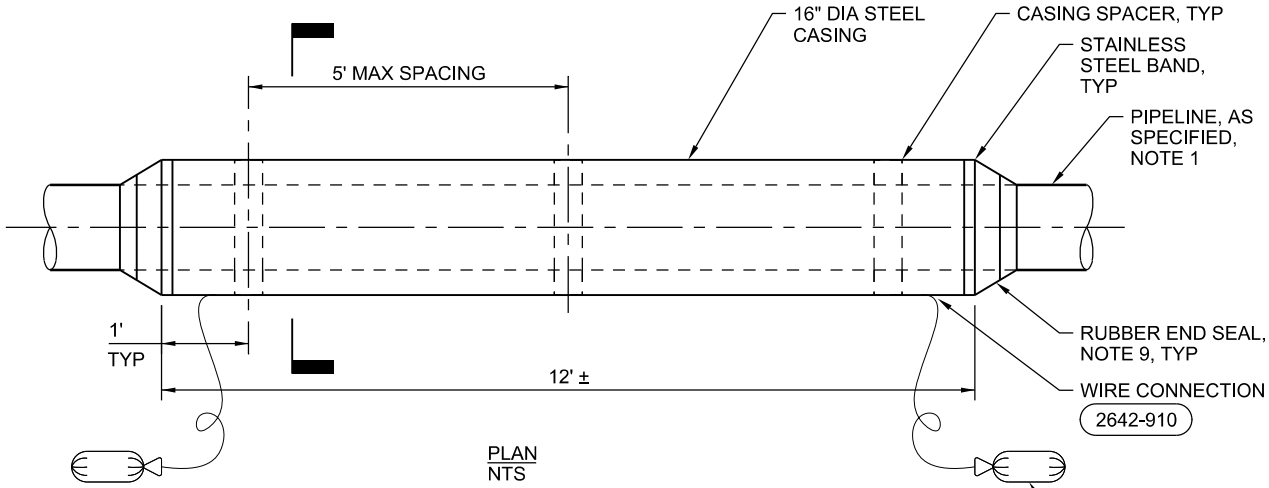
1. 3123-121 Cased Undercrossing: REPLACE with attached modified Standard Detail 3123-121 Cased Undercrossing.

End of Addendum No. 1

SECTION 33 41 01.03 POLYVINYL CHLORIDE (PVC) DRAIN PIPE	
Item	**Description**
Pipe: 12-inch diameter and under	ASTM D3034: Standard dimension ratio 35, with cell classification of 12454 or 12364 as defined in ASTM D1784[1].
Joints	ASTM D3212 bell and spigot, rubber gasketed.
Gaskets	ASTM F477. Lubricants: As approved by manufacturer.
Fittings	PVC, gasketed, type as shown on Drawings[2].
Installation	In accordance with ASTM D2321 and manufacturer's instructions.
Source Quality Control Testing	In accordance with specified ASTM.
[1] Sani-21 PVC Sewer Pipe as manufactured by Diamond Plastics Corporation or equal [2] NACO Industries, or equal	

END OF SECTION

3123-121.dgn 2015\08\21



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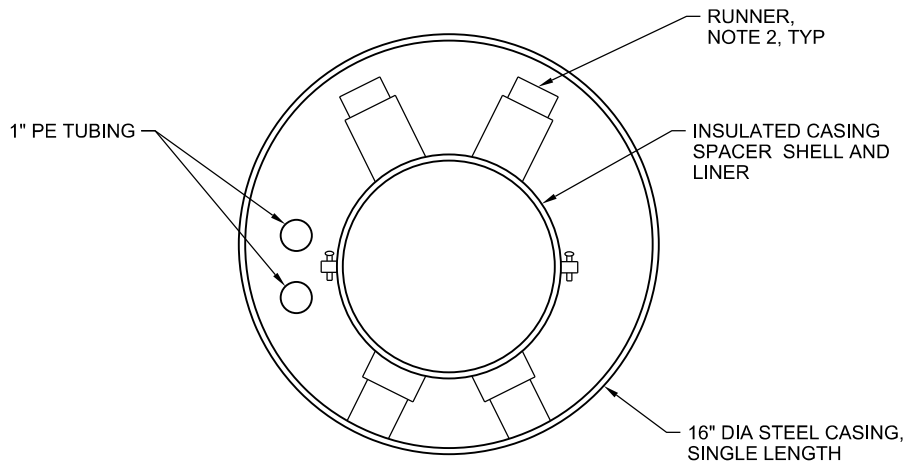

SECTION
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NOTES

1. NO PIPE BELL ALLOWED WITHIN CASING.
2. THE DIMENSIONS OF CASING SPACER RISERS AND RUNNERS SHALL BE A RECOMMENDED BY THE CASING SPACER MANUFACTURER, AS REQUIRED TO PROVIDE 2"MINIMUM CLEARANCE BETWEEN THE PIPE AND THE CASING, AND TO ALLOW INSTALLATION OF THE CARRIER PIPE AT THE ELEVATIONS SHOWN ON THE PLAN AND PROFILE. INSTALL THE CASING AT THE ELEVATIONS CORRESPONDING TO THE CASING SPACER RISER AND RUNNER DIMENSIONS SO THAT THE CARRIER PIPE IS AT THE ELEVATIONS SHOWN ON THE PLAN AND PROFILE.
3. FOR CASING, USE ASTM DESIGNATION A252, GRADE 2 OR ASTM DESIGNATION A139, GRADE B, SCHEDULE 30 STANDARD-WEIGHT STEEL PIPE WITH A WALL THICKNESS OF 3/8 INCH.
4. USE A BORING MACHINE WHICH WILL CUT A TRUE CIRCULAR BORE TO THE REQUIRED LINE AND GRADE, NO MORE THAN ONE INCH LARGER THAN THE OUTSIDE DIAMETER OF THE STEEL CASING.
5. PLACE CASING CLOSELY BEHIND AND IN CONJUNCTION WITH THE BORING OPERATION, USING A STEEL JACKING HEAD TO PREVENT GROUND LOSS DURING BORING. SECURELY ANCHOR THE HEAD TO PREVENT ANY WOBBLE OR ALIGNMENT VARIATION DURING THE JACKING OPERATION.
6. VERIFY THAT PIPE AND CASING ARE NOT IN METALLIC CONTACT BY ELECTRONIC TEST.
7. CONNECT TO PIPING OUTSIDE CASING USING SHORT MJ SLEEVE WITH MECHANICAL JOINT WEDGE ACTION RESTRAINT GLANDS OR MEGA COUPLING.
8. INSTALL ONE 32-LB PACKAGED STANDARD POTENTIAL MAGNESIUM ANODE AT EACH END OF THE CASING. ATTACH THE ANODE WIRE TO THE CASING BY THERMITE WELD. POSITION THE ANODE AT A DEPTH NOT LESS THAN THE TOP OF THE CASING AND AT LEAST 3 FEET FROM THE CASING AND CARRIER PIPE. BACKFILL THE ANODE WITH NATIVE MATERIAL.
9. FILL END OF CASING SPACE WITH FOAM INSERT SEGMENT PRIOR TO INSTALLATION OF RUBBER END SEAL. BACKFILL WITH PIPE BEDDING MATERIAL ALL AROUND END SEAL.

CASED UNDERCROSSING

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