

2013 Leon Creek Water Recycling Center (WRC) Rehabilitation and Process Improvements

Solicitation No.: CO-00003 SAWS Job No.: 13-6505 Addendum No. 9 (Final) September 2, 2015

To Respondent of Record:

This addendum, applicable to the project referenced above, is an amendment to the bidding documents and as such will be a part of and included in the Contract Documents. Acknowledge receipt of this addendum by entering the addendum number and issuance date in the space provided in the bid proposal.

PART 1 – BIDDING AND CONTRACT DOCUMENTS

A. Revisions to Section 01 11 00 "SUMMARY OF WORK"

1. Page 2, Paragraphs 1.03.A.5. and 1.03.A.5.e: REMOVE references to flow conditioners.

PART 2 – TECHNICAL SPECIFICATIONS

A. Revisions to Section 03 60 00 "GROUT"

1. Page 6, Paragraph 2.01.E. Grout Fill, Topping Grout: REMOVE section in its entirety and REPLACE with the following:

"E. Grout Fill & Topping Grout:

- 1. Grout for topping of slabs and concrete fill for built-up surfaces of tank, channel, and basin bottoms shall be composed of cement, fine aggregate, coarse aggregate, water, and admixtures proportioned and mixed as specified herein. All materials and procedures specified for normal concrete in Section 03 30 53, Miscellaneous Cast-In-Place Concrete, shall apply except as noted otherwise herein.
- 2. Topping grout and concrete fill shall contain a minimum of 517 pounds of cement per cubic yard (5.5 sacks) with a maximum water cement ratio of 0.45.
- 3. Minimum 28 day compressive strength shall be 4,000 psi.

4. Coarse aggregate shall be graded as follows:

U.S. Standard Sieve Size	Percent by Weight Passing
½-inch	100
3/8-inch	85-100
No. 4	10-30
No. 8	0-10
No. 16	0-5

- 5. Fine aggregate shall be as required in Section 03 30 53.
- 6. Slump shall be adjusted to match placement and finishing conditions, but shall not exceed 4 inches
- 7. Final mix design shall be as determined by trial mix design under supervision of the approved testing laboratory."

B. Clarification to Section 40 90 02 "SUPERVISORY CONTROL AND DATA ACQUISITION"

1. Page 14, Paragraph 2.10.

Power for the valve actuators and DO sensors identified in section 2.10 are not supplied by the MCP. The drawings indicate the power sources for these devices. The flow meters identified in 2.10 will be powered from the Remote PLC panels.

C. Revisions to Section 46 51 20 "FINE BUBBLE DIFFUSER SYSTEM"

1. Page 4, Paragraph 1.10.A. REMOVE the last sentence and REPLACE with the following:

"In the event the equipment fails to perform as specified, or if greater than 2% of the overall diffuser count is found to have leaking diffuser holders or saddle connections to the distribution piping, Owner will have the right to reject equipment and the manufacturer will be required to replace in full at no additional cost to the Owner."

D. Revisions to Section 46 51 21 "COARSE BUBBLE DIFFUSER SYSTEM"

- 1. Page 3, Paragraph 1.05.D. ADD the following:
 - "3. Aquarius Technologies"
- 2. Page 3, Paragraph 1.05.B. REMOVE the paragraph in its entirety and REPLACE with the following:

- "1. The equipment manufacturer shall have not less than seven (7) successful years of experience in the design, construction and operation of fine bubble diffused aeration equipment including diffuser laterals, manifolds, purge systems and diffuser assemblies, with five (5) or more installation of similar size and diffuser type in the US."
- 3. Page 5, Paragraph 1.09.A. REMOVE the last sentence and REPLACE with the following:

"In the event the equipment fails to perform as specified, or if greater than 2% of the overall diffuser count is found to have leaking connections to the distribution piping, Owner will have the right to reject equipment and the manufacturer will be required to replace in full at no additional cost to the Owner."

PART 3 – DRAWINGS

A. Revisions to Sheet M-4

1. REMOVE and REPLACE Sheet M-4 with the attached version.

B. Revisions to Sheet M-5

1. REMOVE and REPLACE Sheet M-5 with the attached version.

C. Revisions to Sheet M-6

1. REMOVE and REPLACE Sheet M-6 with the attached version.

D. Revisions to Sheet M-7

1. REMOVE and REPLACE Sheet M-7 with the attached version.

E. Revisions to Sheet M-15

1. REMOVE and REPLACE Sheet M-15 with the attached version.

F. Revisions to Sheet E-8

1. Aeration Basins 7-15 Power Plan:

MODIFY label on valve to influent channel mixing diffusers for aeration basins 15-7 from "LC-03AS-VLV-2" to "LC-03AD-VLV-16B". The panel board sourcing power to the valve actuator shall reflect the name change also.

G. Revisions to Sheet E-10

1. Aeration Basins 7-15 Controls Plan:

MODIFY label on valve to influent channel mixing diffusers for aeration basins 15-7 from "LC-03AS-VLV-2" to "LC-03AD-VLV-16B". The interconnection diagram shall reflect the name change also.

H. Revisions to Sheet PI-2

1. Process Diagram I:

MODIFICATION: Provide label on valve to influent channel mixing diffusers for aeration basins 15-7 as "LC-0S6AS-LVL-16B" and the flow meter label shall be "FE-C-33-47". The two devices shall be switched so the flow meter is upstream of the valve.

I. Revisions to Sheet PI-3

1. Process Diagram II:

REMOVE the following Note By Symbol 2 paragraph:

"SIEMENS TO PROVIDE DROP LEG VALVE, ACTUATOR, FLOW STRAIGHTER, AND FLOW METER. CONTRACTOR SHALL INSTALL."

And REPLACE with the following:

"SIEMENS TO PROVIDE DROP LEG VALVE, ACTUATOR, AND FLOW METER. CONTRACTOR SHALL INSTALL."

J. Revisions to Sheet PI-4

1. Process Diagram III:

REMOVE the following Note By Symbol 2 paragraph:

"SIEMENS TO PROVIDE DROP LEG VALVE, ACTUATOR, FLOW STRAIGHTER, AND FLOW METER. CONTRACTOR SHALL INSTALL."

And REPLACE with the following:

"SIEMENS TO PROVIDE DROP LEG VALVE, ACTUATOR, AND FLOW METER. CONTRACTOR SHALL INSTALL."

The remainder of the bid documents remain unchanged.

This addendum consists of ten (10) pages.

ALL RESPONSDENTS SHALL ACKNOWLEDGE RECEIPT OF ADDENDUM NO. 9 IN THE PRICE PROPOSAL FORM AND BY HIS/HER SIGNATURE AFFIXED HERETO AND TO FILE SAME AS AN ATTACHMENT TO HIS/HER PROPOSAL. PRICE PROPOSAL FORMS SUBMITTED WITHOUT THIS ACKNOWLEDGEMENT WILL BE CONSIDERED INFORMAL.

Coly C. Lee 9/2/15

Freese and Nichols, Inc.



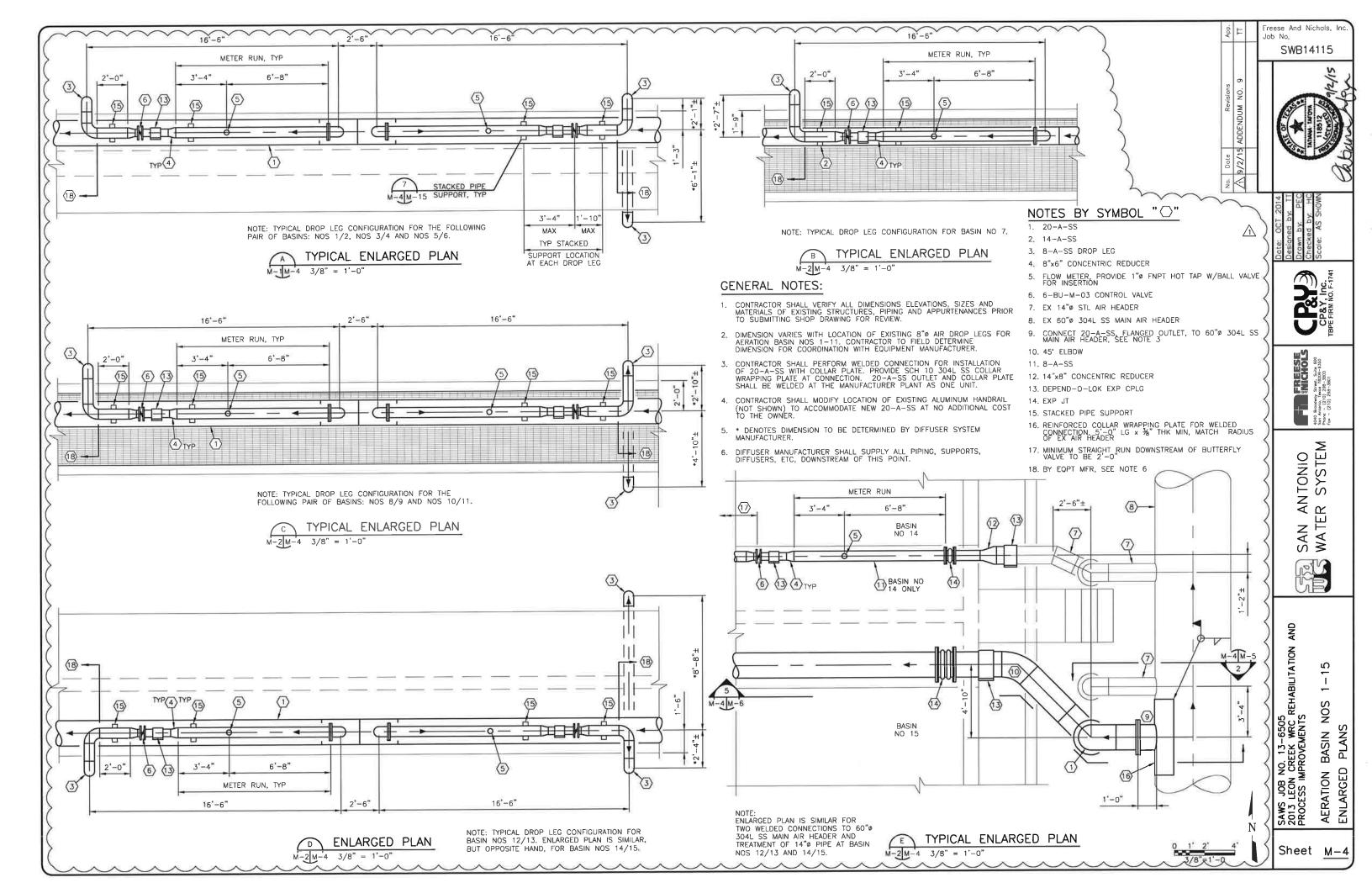
FREESE AND NICHOLS, INC. TEXAS REGISTERED ENGINEERING FIRM F-2144

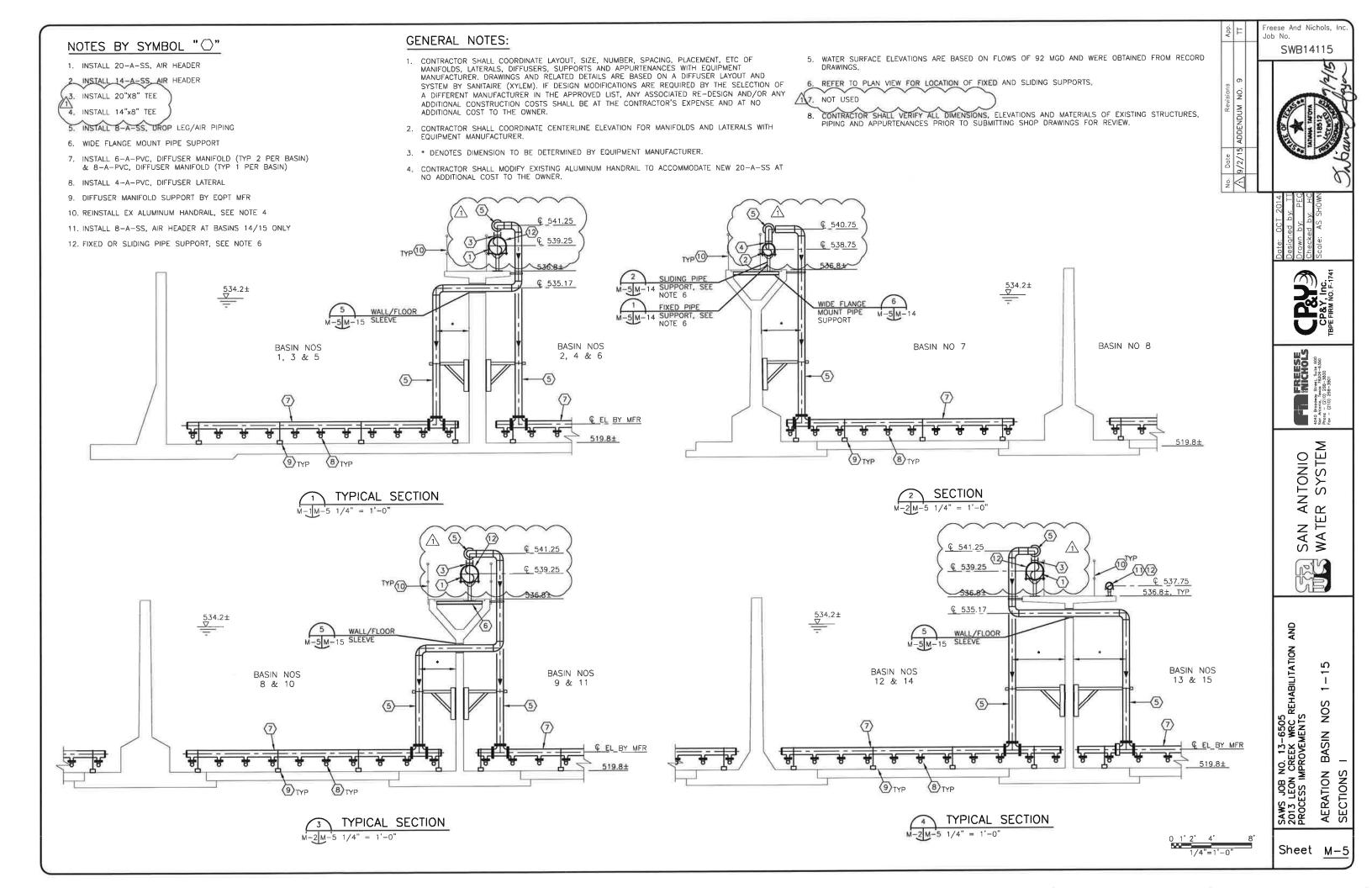
ACKNOWLEDGEMENT BY RESPONDENT

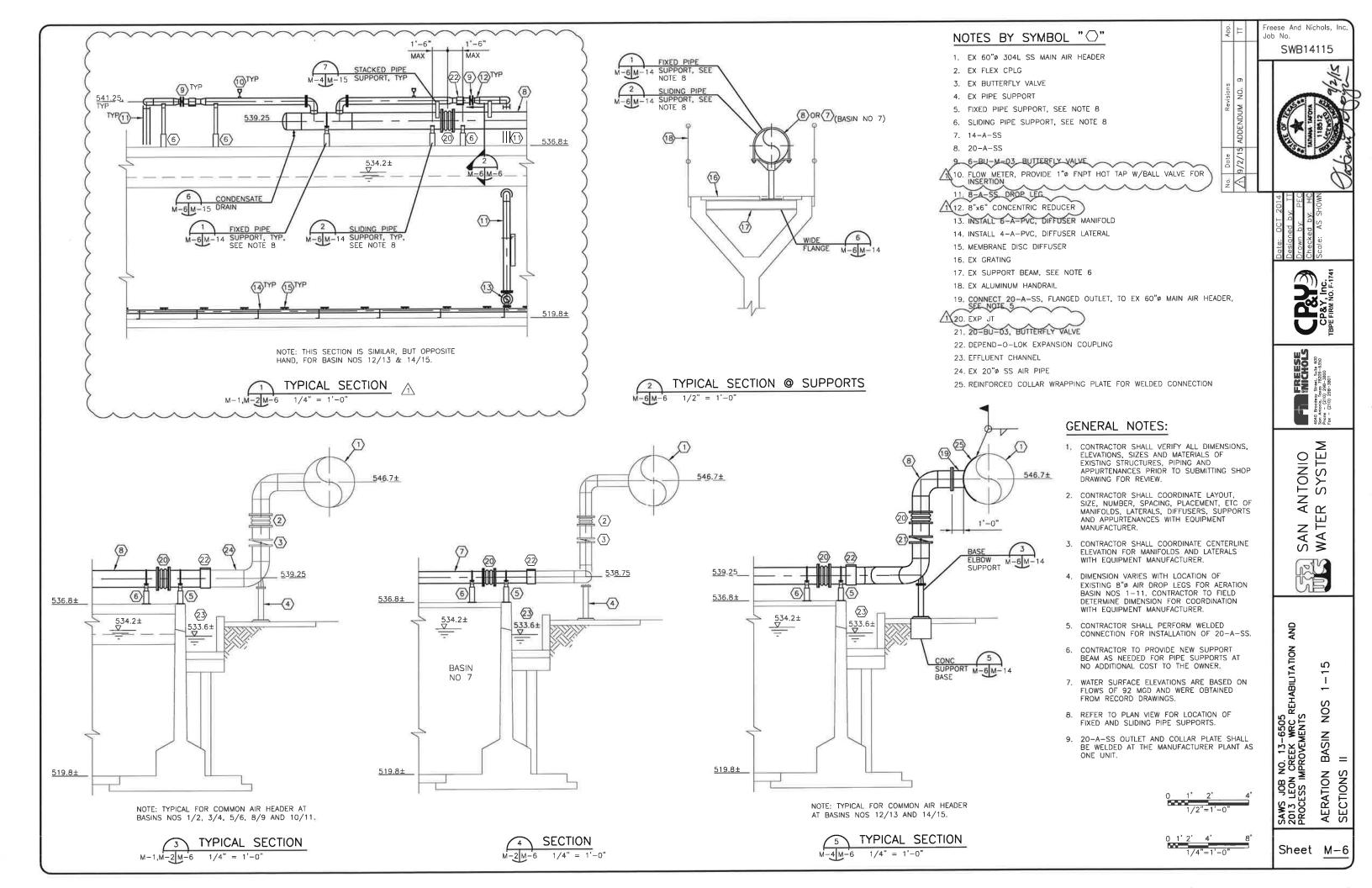
THE UNDERSIGNED ACKNOWLEDGES RECEIPT OF THIS ADDENDUM NO. 9 AND THE PROPOSAL SUBMITTED HEREWITH ARE IN ACCORDANCE WITH THE INFORMATION AND STIPULATION SET FORTH.

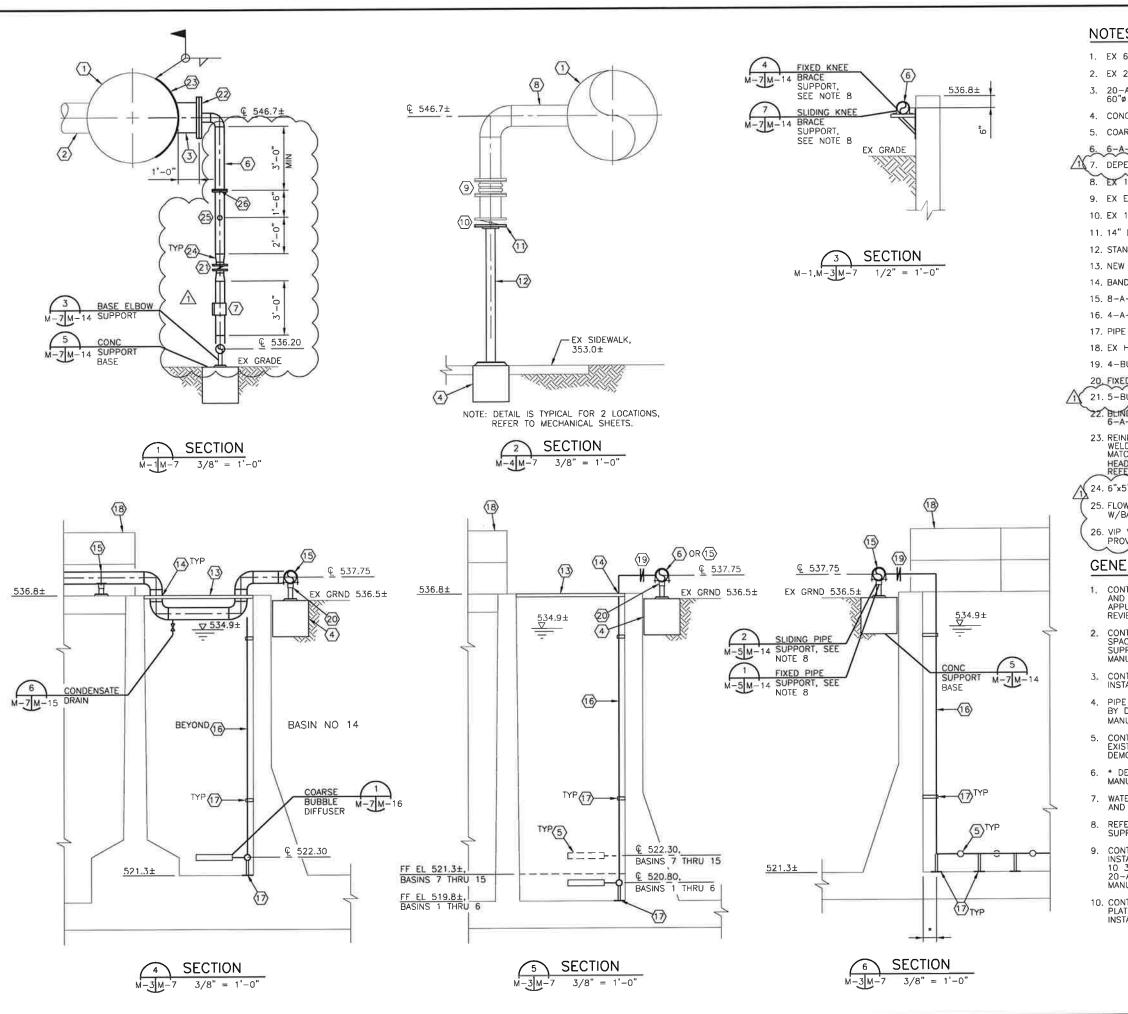
Signature of Respondent Date

END OF ADDENDUM NO. 9









NOTES BY SYMBOL "O"

- 1. EX 60"ø 304L SS MAIN AIR HEADER
- 2. EX 20"ø SS AIR PIPE
- 3. 20-A-SS, FLANGED OUTLET, CONNECT TO EX 60" σ MAIN AIR HEADER, SEE NOTE 3
- 4. CONC SUPPORT BASE
- 5. COARSE BUBBLE DIFFUSER
- 6. 6-A-SS. SEE MECH PLANS FOR LOCATIONS
- 7. DEPEND-O-LOK EXP CPLG 8. EX 14 STL AIR HEADER
- 9. EX EXPANSION JOINT
- 10. EX 14" BUTTERFLY VALVE, LUG TYPE
- 11. 14" BLIND FLANGE
- 12. STANCHION SUPPORT
- 13. NEW GRATING, SEE NOTE 5
- 14. BAND OPENING IN GRATING
- 15. 8-A-SS, SEE MECH PLANS FOR LOCATIONS
- 16. 4-A-SS DROP LEG
- 17. PIPE SUPPORT BY DIFFUSER MFR
- 18. EX HANDRAIL
- 19. 4-BU-03
- 20 FIXED OR SLIDING SUPPORT, SEE NOTE 8
- 21. 5-BU-M-03
- ZZ. BLIND FLANGE, DRILL FOR CONNECTION OF
- 23. REINFORCED COLLAR WRAPPING PLATE FOR WELDED CONNECTION. 5-FT IN LENGTH MATCHING THE RADIUS OF THE EXISTING AIR HEADER WITH A MINIMUM THICKENSS OF %".
 REFER TO SHEET NOTE 10.
- 24. 6"x5" CONCENTRIC REDUCER
- 25. FLOW METER, PROVIDE 1"Ø FNPT HOT TAP W/BALL VALVE FOR INSERTION
- 26. VIP VORTAB FLOW CONDITIONER (TO BE PROVIDED BY SIEMENS)

GENERAL NOTES:

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, SIZES AND MATERIALS OF EXISTING STRUCTURES, PIPING AND APPURTENANCES PRIOR TO SUBMITTING SHOP DRAWING FOR
- CONTRACTOR SHALL COORDINATE LAYOUT, SIZE, NUMBER, SPACING, PLACEMENT, ETC OF MANIFOLDS, LATERALS, DIFFUSERS, SUPPORTS AND APPURTENANCES WITH EQUIPMENT
- $\mathbf{3}_{*}$ Contractor shall perform welded connection for installation of 20-A-Ss.
- PIPE SUPPORTS INSIDE INFLUENT CHANNEL SHALL BE SUPPLIED BY DIFFUSER MANUFACTURER AND INSTALLED PER DIFFUSER MANUFACTURER'S RECOMMENDATION.
- CONTRACTOR SHALL PROVIDE NEW GRATING SECTIONS TO MATCH EXISTING AT LOCATIONS WHERE EXISTING PIPE WILL BE
- DENOTES DIMENSION TO BE DETERMINED BY EQUIPMENT MANUFACTURER.
- 7. WATER SURFACE ELEVATIONS ARE BASED ON FLOWS OF 92 MGD AND WERE OBTAINED FROM RECORD DRAWINGS.
- REFER TO PLAN VIEW FOR LOCATION OF FIXED AND SLIDING
- CONTRACTOR SHALL PERFORM WELDED CONNECTION FOR INSTALLATION OF 20-A-SS WITH COLLAR PLATE. PROVIDE SCH 10 304L SS COLLAR WRAPPING PLATE AT CONNECTION. 20-A-SS OUTLET AND COLLAR PLATE SHALL BE WELDED AT THE MANUFACTURER PLANT AS ONE UNIT
- 10. CONTRACTOR SHALL REMOVE PART OF THE EXISTING WELDED PLATE UNDERNEATH THE BLOWER HEADER TO ALLOW FOR INSTALLATION OF OUTLET AND COLLAR PLATE.



Freese And Nichols, Inc

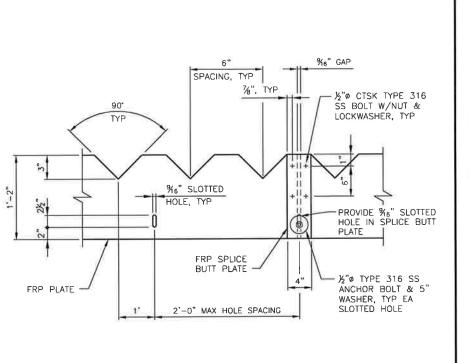
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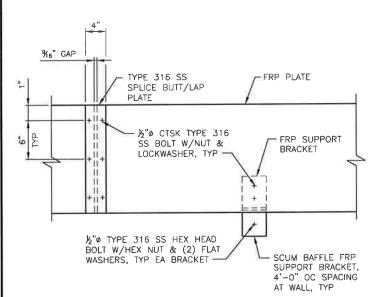
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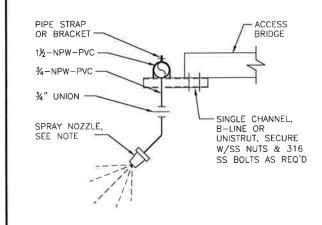
SAN ANTONIO WATER SYSTEM

NOS SAWS JOB NO. 13-6505 2013 LEON CREEK WRC P PROCESS IMPROVEMENTS BASIN AERATION SECTIONS

Sheet M-7







NOTES:

- 1. SPRAY NOZZLE SHALL BE FULLJET, WIDE ANGLE SPRAY, MODEL ½K-316SS-50, WITH SPRAY ANGLE OF 119', AS MANUFACTURED BY SPRAYING SYSTEMS CO.
- 2. PROVIDE ADJUSTABLE BALL FITTING, MODEL #36275 AS MANUFACTURED BY SPRAYING SYSTEMS CO, TO ALLOW POSITIONING OF SPRAY NOZZLE.
- 3. UNISTURUT AND HARDWARE SHALL BE CONSTRUCTED OF
- 41 FIELD ROUTE AND ADJUST SPRAY NOZZLE AT CLARIFIER



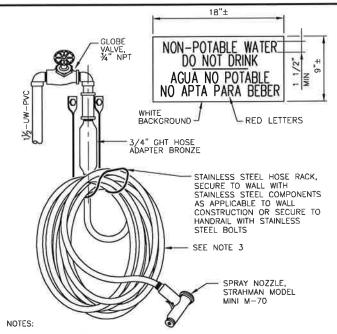
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V-NOTCH WEIR WITH SPLICE JOINT NOT TO SCALE

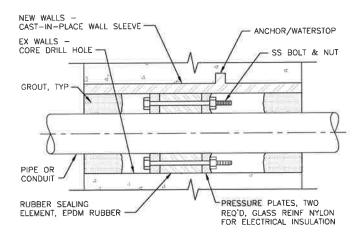






- PROVIDE AND MOUNT ONE NON-POTABLE WATER SIGN AT EACH HOSE STATION OR WALL HYDRANT PER SPECIFICATION SECTION 15047,
- 2. MOUNT HOSE STATION WITH GLOBE VALVE 3'-6" AFF.
- 3. FURNISH 50' OF %" DIAMETER RUBBER HOSE AT EACH HOSE STATION. HOSE SHALL BE INDUSTRIAL RATED FOR MINIMUM 150 PSI WORKING PRESSURE AND SHALL HAVE NEOPRENE EXTERIOR THAT RESISTS OIL, ABRASION AND SEVERE WEATHER CONDITIONS FOR INDUSTRIAL USE. BOTH ENDS OF HOSE SHALL BE THREADED, ONE END MALE AND ONE END
- ROUTING OF WATER LINE IS SHOWN IN GENERAL ONLY, FIELD DETERMINE ROUTING FOR EACH LOCATION,

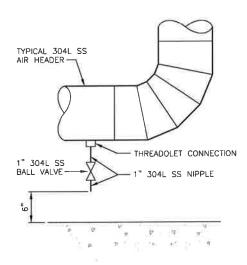




- INSIDE DIAMETER OF EACH WALL OPENING SHALL BE OF THE SIZE RECOMMENDED BY THE MANUFACTURER TO FIT THE PIPE OR CONDUIT AND THE WALL SEAL ASSEMBLY TO ASSURE WATERTIGHT JOINT.
- PIPE TO WALL PENETRATION CLOSURES SHALL BE OF THE MODULAR TYPE, CONSISTING OF INTERLOCKING SYNTHETIC RUBBER LINKS SHAPED TO FILL THE ANNULAR SPACE BETWEEN THE PIPE AND WALL OPENING. A PRESSURE PLATE SHALL BE PROVIDED UNDER EACH BOLT HEAD AND NUT, WITH THE SEAL CONSTRUCTED TO PROVIDE ELECTRICAL INSULATION BETWEEN PIPE AND
- WALL SEAL ASSEMBLY SHALL BE "LINK SEAL" AS MANUFACTURED BY ENPRO INDUSTRIES, CHARLOTTE, NORTH CAROLINA.
- 4. PROVIDE 3 HOUR FIRE RATED MODULAR, INTERLOCKING MECHANICAL SEAL, "LINK SEAL" MODELFD/FS IN FIRE RATED STRUCTURES.
- 5. PROVIDE ESCUTCHEONS IN FINISHED SPACES.

NOT TO SCALE





INSTALL CONDENSATE DRAINS AT THE END OF AERATION BASIN AIR HEADERS AND BEFORE AND AFTER ALL VERTICAL CHANGES IN PIPE ELEVATION.

