



**SAN ANTONIO WATER SYSTEM
LEON CREEK WATER RECYCLING CENTER (WRC) INTERCONNECT
TO THE SOUTHWEST BEXAR SEWER PIPELINE (SBSP) PROJECT
SAWS Job No. 10-6501
Solicitation No. B-12-019-MF**

ADDENDUM NO. 3

March 09, 2012

BID DATE: March 19, 2012

2:00 p.m. Central Standard Time

Consulting Engineer: CP&Y, Inc. TBPE Registration No. F-1741

To: All Document Holders of Record

This addendum, applicable to work referenced above, forms a part of the Contract Documents and modifies the original Contract Documents dated February 2012. Acknowledge receipt of this addendum by entering the addendum number and issue date in the spaces provided on submitted copies of the proposals. Failure to do so may subject Bidder to disqualification.

Addendum No. 3 consists of 7 item(s) outlined in 3 pages. In addition to these 3 pages, Addendum No. 3 includes 1 re-issued specification seal sheet and 3 re-issued drawings.



ADDENDUM NO. 3

A. GENERAL QUESTIONS/CLARIFICATIONS

1. Question: Could I set up a site visit for the Leon Creek Water Recycling Interconnect SAWS Job #10-6501? I want to become familiar with the site and want to take a few pictures.

Response: A site visit open to all bidders was arranged per Addendum No. 2.

2. Question: Item 2.d. discussed in the Pre-bid Meeting reads as follows:

The Owner reserves the right to halt construction and/or require the Contractor to place existing facilities back in service if necessary to maintain compliance. Contractor shall strictly adhere to the scheduling constraints and requirements specified within the Contract Documents to facilitate Plant operation and compliance.

Is there a line item to compensate the Contractor to address this if they have to demobilize/remobilize?

Response: Any delay or hindrance caused by or contributed to by failure to cooperate and/or coordinate among all parties will be governed by Section 6.7 - NO DAMAGES FOR DELAY CLAUSE of the General Conditions. Otherwise, refer to Section 6.6.2 of the General Conditions.

3. Question: Addendum 1 removed the Bidder's Questionnaire. The existing Southwest Bexar Sewer Pipeline consists of 6 separate projects. Every single project had a specific contractor qualification requirement in terms of experience in working with large diameter pipe installations. The interconnect portion of this project requires similar contractor experience for the scope. What makes this project different from the 6 separate SBSP projects?

Response: Please refer to Instructions to Bidders, Item 23 and the first two items in the Supplementary Conditions. Following the bid opening, SAWS Contracting Office will request additional information from the apparent low bidder to assist in the evaluation. This information will include record of performance on a minimum of three (3) similar large diameter gravity sewer pipeline construction projects and three (3) similar wastewater treatment plant projects.

B. SPECIFICATIONS

1. DIVISION 17 SEAL SHEET, delete Division 17 Seal Sheet in its entirety and replace with the attached Division 17 Seal Sheet.

C. DRAWINGS

1. DRAWING NO. G-6

Delete this drawing in its entirety and replace with the attached drawing G-6.

2. DRAWING NO. G-15

Delete this drawing in its entirety and replace with the attached drawing G-15.

3. DRAWING NO. G-16

Delete this drawing in its entirety and replace with the attached drawing G-16.

ACKNOWLEDGEMENT BY BIDDER

Each bidder is requested to acknowledge receipt of this Addendum No. 3 by his/her signature affixed hereto and to file same with and attached to his/her bid.

The Undersigned acknowledges receipt of this Addendum No. 3 and the bid submitted herewith is in accordance with the information and stipulation set forth.

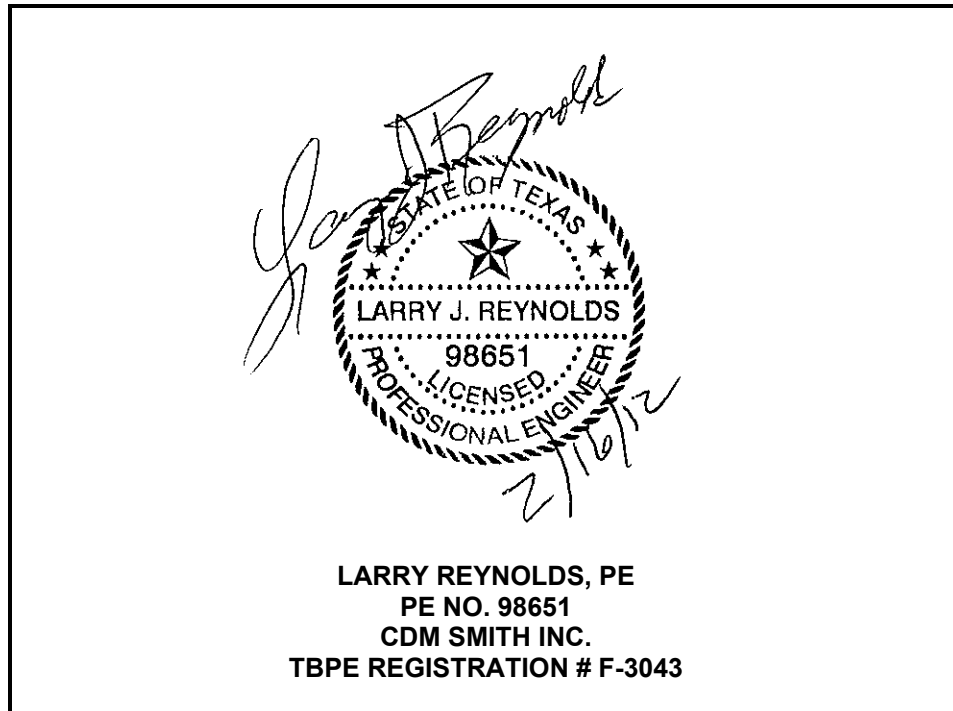
Date

Signature of Bidder

END OF ADDENDUM

SAWS LEON CREEK WATER RECYCLING CENTER (WRC) INTERCONNECT TO THE SOUTHWEST BEXAR SEWER PIPELINE (SBSP)

February 2012



Division 17

CPS NOTES

- MINIMUM SEPARATION DISTANCE OF 18-FOOT FROM CPS POLES AND TOWERS WILL BE MAINTAINED.
- BARRICADES TO PROTECT THE ELECTRIC FACILITIES MUST BE INSTALLED.
- NO STORAGE OF EQUIPMENT OR MATERIALS, INCLUDING EXCAVATED MATERIALS WILL BE ALLOWED WITHIN CPS ENERGY'S EASEMENTS. ALL EASEMENT AREAS ARE TO BE KEPT CLEAR OF EQUIPMENT AND MATERIALS WHEN CONSTRUCTION ACTIVITIES ARE NOT IN ACTION.
- CPS ENERGY REQUIRES CLEAR ACCESS AND A DRIVEABLE PATH TO ITS FACILITIES 24/7. THE ACCESS ROAD WILL BE KEPT CLEAR DURING ALL CONSTRUCTION.
- NO OPEN TRENCH IS TO BE LEFT DURING THE NIGHT.
- NO ELEVATION/GRADE CHANGES WILL BE ALLOWED WITHIN CPS ENERGY'S EASEMENTS. THE FINISHED ELEVATION WITHIN THE EASEMENTS MUST BE RESTORED TO THE ELEVATION THAT EXISTED PRIOR TO ANY CONSTRUCTION ACTIVITIES.
- NO STRUCTURES (SUCH AS CONSTRUCTION TRAILERS) WILL BE PERMITTED ON CPS ENERGY'S EASEMENTS.
- SIGNAGE MAY BE REQUIRED TO ESTABLISH THE EXISTENCE AND LOCATION OF THE PIPELINE.
- THE CONTINUED INTEGRITY OF CPS ENERGY'S ELECTRIC FACILITIES AND THE SAFETY OF ALL INDIVIDUALS IN THE AREA OF ANY WORK NEAR CPS ENERGY'S ELECTRIC FACILITIES ARE OF THE UTMOST IMPORTANCE. THEREFORE, CPS ENERGY'S REPRESENTATIVE MAY REQUIRE DISCONTINUATION OF ANY WORK, WHICH, IN HIS/HER SOLE OPINION, ENDANGERS THE SAFE OPERATION OR SAFETY OF CPS ENERGY'S ELECTRIC FACILITIES.
- THE PIPELINE OWNER AND ITS CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL DAMAGES, CLAIMS AND LIABILITIES PURSUED BY THE PROPERTY OWNER, ITS TENANTS, EMPLOYEES, CUSTOMERS, INVITEES AND/OR AGENTS ARISING FROM THE USE OF THE CPS ENERGY'S EASEMENTS.
- SHOULD ANY DAMAGE OR ACCIDENT OCCUR REGARDING THE OVERHEAD ELECTRIC DISTRIBUTION AND TRANSMISSION FACILITIES, IMMEDIATELY NOTIFY CPS ENERGY, SAN ANTONIO, TEXAS, AT TELEPHONE NUMBER: (210) 353-4357.
- THESE GUIDELINES, RESTRICTIONS AND PROVISIONS IN NO WAY CONVEY ANY EASEMENT RIGHTS OR IN NO WAY CONSTITUTE A WAIVER OF CPS ENERGY'S RIGHTS UNDER THE EASEMENTS BUT ARE MERELY CUMULATIVE OF SUCH RIGHTS.
- CALL CPS LOCATOR AT 1-800-545-6005 48 HOURS BEFORE BEGINNING ANY EXCAVATION.
- DUE TO FEDERAL REGULATION TITLE 49, PART 192.181, CPS MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND PROTECTING THE INTEGRITY OF THE UNDERGROUND ELECTRIC CABLE DURING CONSTRUCTION.
- TO RELOCATE ANY CPS ANCHOR GUY OR SLEEVE OVERHEAD POWER LINES CONTACT SAUL JUAREZ 210-353-2805

SAN ANTONIO WATER SYSTEM

- LOCATION AND DEPTH OF EXISTING WATER MAINS AND SERVICES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. ACTUAL LOCATION AND DEPTHS MUST BE VERIFIED BY THE CONTRACTOR 48 HOURS PRIOR TO BEGINNING CONSTRUCTION BY CALLING THE SAWS WATER LINE LOCATOR AT 233-20-10 OR 704-7297 AFTER HOURS. THE CONTRACTOR SHOULD EXERCISE EXTREME CAUTION WHEN WORKING NEAR EXISTING WATER FACILITIES, AND SHOULD THEY BE DAMAGED DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR WILL BE REQUIRED TO REIMBURSE THE SAN ANTONIO WATER SYSTEM FOR THE TOTAL COST TO REPAIR OR REPLACE THE DAMAGE FACILITIES.

GRADING NOTES



- THE GEOTECHNICAL REPORT ON INDICATED SUBSURFACE CONDITIONS IS NOT IDENTIFIED AS REPRESENTATIONS OR WARRANTIES OF THE CONTINUITY OF SUCH CONDITIONS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF ANY EXCESS FILL MATERIAL RESULTING FROM THE SITE MASS GRADING OFF OF THE PROJECT SITE. THE CONTRACTOR SHALL NOT PLACE FILL OR WASTE MATERIAL ON ANY PRIVATE PROPERTY WITHOUT PRIOR WRITTEN AGREEMENT WITH PROPERTY OWNER.
- FILL SHALL BE EARTH, FREE OF DEBRIS, CINDERS, COMBUSTIBLES, FROST, ICE, BOULDERS LARGER THAN ONE FOOT IN ANY DIMENSION, ROOTS, SOD, WOOD, CELLULOSE, ORGANIC MATERIALS, AND MATERIALS THAT MAY BE SUBJECT TO TERMITES ATTACK AND AS INDICATED IN THE GEOTECHNICAL REPORT.
- EXCAVATED MATERIAL THAT IS SUITABLE MAY BE USED FOR FILLS AND BACKFILLS. PROVIDE ANY ADDITIONAL FILL MATERIAL FROM OFF-SITE AS MAY BE REQUIRED TO PRODUCE DESIGNATED LINES AND GRADES OF FILLS, BACKFILLS, AND ROUGH GRADES. MATERIAL BROUGHT FROM OFF-SITE SHALL BE TESTED FOR COMPLIANCE WITH THE SPECIFICATIONS.
- PROVIDE THE REQUIRED MINIMUM DENSITY AND MOISTURE CONTENT OF COMPACTED FILL IN ACCORDANCE WITH THE SOILS REPORT AND THE REQUIREMENTS OF THE CONSULTANT.
- WHEN THE SUBGRADE OR LAYER OF SOIL MATERIAL MUST BE MOISTURE CONDITIONED BEFORE COMPACTION, CONTRACTOR SHALL UNIFORMLY APPLY THE REQUIRED AMOUNT OF WATER TO THE SURFACE OF SUBGRADE OR LAYER OF SOIL MATERIAL, IN SUCH A MANNER AS TO PREVENT FREE WATER FROM APPEARING ON THE SURFACE DURING OR SUBSEQUENT TO COMPACTION OPERATIONS.
- GRADING, INCLUDING EXCAVATING AND FILLED SECTIONS AND ADJACENT TRANSITION AREAS SHALL BE REASONABLY SMOOTH, COMPACTED AND FREE FROM IRREGULAR SURFACE CHANGES. DEGREES OF FINISH SHALL BE THAT ORDINARILY OBTAINABLE FROM BLADE GRADER OPERATIONS, EXCEPT AS OTHERWISE SPECIFIED. SUBGRADE SHALL BE EVENLY SLOPED TO PROVIDE DRAINAGE AWAY FROM STRUCTURES IN ALL DIRECTIONS AT A GRADE NOT LESS THAN 1/4-INCH PER FOOT. REDRESS AND RECOMPACT ANY AREAS THAT SETTLE BELOW REQUIRED GRADES BECAUSE OF TRAFFIC, PRECIPITATION, OR STORAGE LOADING BEFORE EXECUTION OF OTHER WORK REQUIRED. FINISHED GRADES SHALL SLOPE UNIFORMLY, LEAVING NO LOW AREAS TO POND WATER.
- PERFORM EARTHWORK AND SITE GRADING IN A MANNER TO PREVENT SURFACE WATER AND SUBGRADE OR GROUND WATER FROM FLOWING INTO EXCAVATIONS, AND TO PREVENT WATER AND SEDIMENTATION FROM FLOODING THE PROJECT SITE AND SURROUNDING AREA.
- DO NOT ALLOW WATER TO ACCUMULATE IN EXCAVATIONS. REMOVE ALL WATER FROM EXCAVATIONS USING DEWATERING METHODS WHICH WILL PREVENT SOFTENING OF FOUNDATIONS.
- A TESTING LABORATORY SHALL BE EMPLOYED BY THE CONTRACTOR TO CHECK THE SUITABILITY OF MATERIAL SELECTED FOR CONTROLLED FILLS, TO TEST AND DETERMINE IF THE REQUIRED DENSITY IS BEING OBTAINED, AND TO TEST COMPACTION OF EXPOSED SUBGRADES. LABORATORY REPORTS ON TESTS PERFORMED SHALL INCLUDE LOCATIONS OF FIELD TESTS, SAMPLING AND TESTING OF MATERIALS, AND LABORATORY INSPECTION OF MATERIALS AND PROCESSES SHALL BE PERFORMED AT THE EXPENSE OF THE CONTRACTOR UNLESS OTHERWISE PROVIDED BY OWNER. TESTING SHALL BE IN ACCORDANCE WITH BEXAR COUNTY 5/32 S CURRENT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. FIRMS PROVIDING CONSTRUCTION MATERIALS TESTING SERVICES MUST HAVE AN ESTABLISHED IN-HOUSE LABORATORY MEETING THE STANDARDS OF THE ASTM REQUIREMENTS. TESTING RESULTS SHALL BE PROVIDED TO THE CONSULTANT AND COUNTY INSPECTOR DIRECTLY FROM THE TESTING LABORATORY.
- WHEN TESTS INDICATE COMPACTION DOES NOT MEET REQUIREMENTS, FILL AND BACKFILL SHALL BE DRIED OUT OR MOISTENED AS NECESSARY, SCARIFIED, AND RECOMPACTED. RECOMPACTED AREAS SHALL BE RETESTED AT NO COST TO THE OWNER.
- THE CONTRACTOR SHALL FOLLOW THE GENERAL INTENT OF THE GRADING PLANS. MINOR ADJUSTMENTS TO THE ACTUAL ELEVATIONS SHOWN ON THE PLANS MAY BE REQUIRED TO MATCH EXISTING GROUND ELEVATIONS.
- THE CONTRACTOR SHALL REMOVE ALL VEGETATION, TREES, STUMPS, GRASSES, ORGANIC SOILS, DEBRIS, AND DELETACIOUS MATERIALS IN CONFLICT WITH IMPROVEMENTS.

TRENCH EXCAVATION SAFETY PROTECTION:

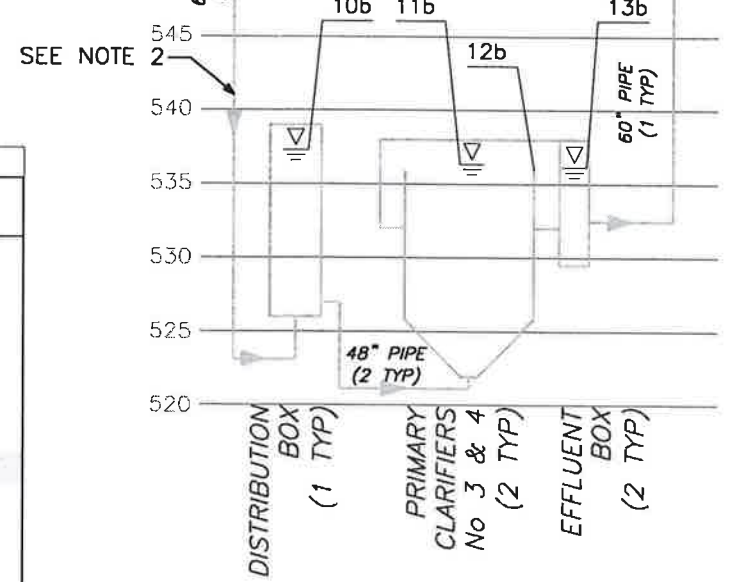
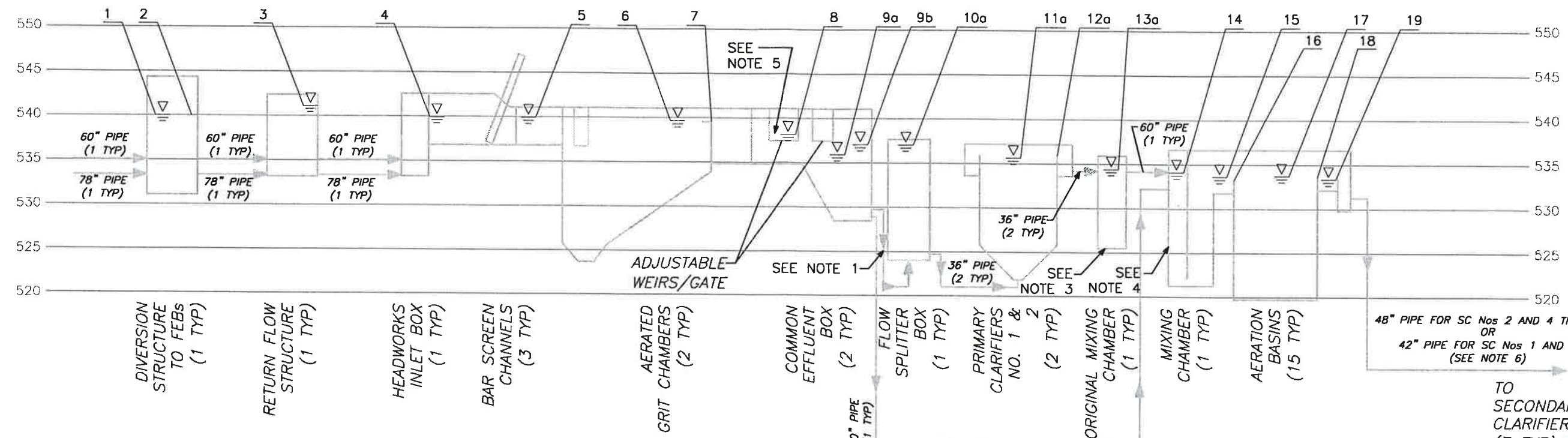
- CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

UNION PACIFIC RAILROAD ENTRANCE ROAD #2

- WITHIN 30 DAYS OF CONTRACTORS NTP, CONTRACTOR SHALL MEET WITH UNION PACIFIC RAILROAD (UPRR) AND ENTER INTO A TEMPORARY HAUL ROAD AGREEMENT WHICH WILL INCLUDE SCHEDULE/DURATION FOR THE HAUL ROAD'S EXISTENCE/USE.
- USE OF THE HAUL ROAD IS ANTICIPATED TO BEGIN WITHIN THE FIRST TWO MONTHS OF CONSTRUCTION AND EXTEND OUT OVER A THREE TO SIX MONTH WINDOW, DURING WHICH TIME THE SOUTHERN PORTION OF THE PIPELINE WILL BE INSTALLED. AFTER THIS THREE TO SIX MONTH PERIOD, THE HAUL ROAD AND CROSSING WILL BE REMOVED AND OWNER/CONTRACTOR SHALL NEED TO USE AN ALTERNATIVE MEANS TO ACCESS THE SOUTHERN PORTION OF THE PROJECT ALIGNMENT. ALL WORK REQUIRING EQUIPMENT WHICH IS NOT CAPABLE OF REACHING THE SITE VIA ALTERNATIVE MEANS SHALL BE COMPLETED WITHIN THIS INITIAL PERIOD.
- CONTRACTOR SHALL HIRE A SURVEYOR LICENSED IN THE STATE OF TEXAS AND PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS TO SURVEY AND PREPARE THE PROPOSED CROSSING DESIGN, COMPLETE WITH APPROPRIATELY SIZED TEMPORARY DRAINAGE CULVERTS ON EACH SIDE OF THE TRACK, AND SHALL SUBMIT TO OWNER/ENGINEER FOR REVIEW AND APPROVAL. CONTRACTOR SHALL ALSO BE REQUIRED TO NEGOTIATE ACCESS TO THE CROSSING FROM ANY NECESSARY LAND OWNERS AND EASEMENT HOLDERS WHICH WILL BE CROSSED. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE TEMPORARY USE OF NECESSARY PROPERTY AND EASEMENTS, AT NO ADDITIONAL COST TO THE OWNER. ADDITIONAL COORDINATION, REVIEW AND APPROVAL MAY ALSO BE REQUIRED FROM CPS AND OTHER CROSSED UTILITIES AND SHALL BE COMPLETED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. APPROACHES WILL NEED TO BE DESIGNED SUCH THAT THEY MAY ACCOMMODATE FOR ANY EQUIPMENT AND TRAILERS WHICH WILL BE ANTICIPATED TO CROSS THE TRACKS AT THIS LOCATION.
- UPRR WILL CONSTRUCT THE CROSSING AT THE RAILROAD TRACKS, DIRECT COSTS BACKED UP BY INVOICES. FOR UPRR'S WORK WILL BE REIMBURSED UNDER THE PERMITTING FEES ALLOWANCE. THIS WORK WILL INCLUDE UPRR'S INSTALLATION OF A TEMPORARY 24-FT AT GRADE CROSSING. A UPRR FLAGGER IS TO BE HIRED BY THE CONTRACTOR WHEN WORKING WITHIN 25-FT OF EITHER SIDE OF THE TRACKS. A PERMITTING FEES ALLOWANCE HAS BEEN INCLUDED IN THE BID PROPOSAL FOR THE PORTIONS OF THE CROSSING WORK WHICH ARE TO BE COMPLETED BY THE UPRR AND FOLLOWING THE UPRR FLAGGING REQUIREMENTS.
- UPON APPROVAL, CONTRACTOR SHALL CONSTRUCT THE APPROACHES ON BOTH SIDES OF THE RAILROAD TRACKS AND WILL ALSO CONSTRUCT THE TEMPORARY HAUL ROAD. CONTRACTOR WILL NEED TO ALLOW FOR DRAINAGE UNDER THE APPROACHES AND WILL INSTALL UP TO TWO GATES 25-30 FEET FROM THE RAILROAD LINE, WHICH ARE TO REMAIN CLOSED UNLESS A UPRR FLAGGER IS PRESENT. AT UPRR'S DISCRETION, THE CONTRACTOR MAY ALSO BE REQUIRED TO CLEAR OR GRUBB PROPERTY UP AND DOWN RAIL FROM THE CROSSING TO IMPROVE OVERALL SAFETY OF THE CROSSING. ALL WORK PERFORMED BY THE CONTRACTOR IN CONNECTION WITH THE UPRR CROSSING AND TEMPORARY HAUL ROAD SHALL BE CONSIDERED INCIDENTAL TO THE PIPELINE COSTS AND SHALL BE COMPLETED AT NO ADDITIONAL COST TO THE OWNER.
- ONCE CONSTRUCTION OF CROSSING AND APPROACHES ARE COMPLETED THE CONTRACTOR'S TEMPORARY HAUL ROAD AGREEMENT WITH UPRR SHALL GOVERN ON ANY RESTRICTIONS IN REGARDS TO THE CROSSING OF THE TRACKS DURING THE NEGOTIATED PERIOD OF USE OF THE TEMPORARY HAUL ROAD. AT NO TIME SHALL ANY EQUIPMENT BE PARKED OR LEFT UNATTENDED WITHIN 25-FEET OF EITHER SIDE OF THE CROSSING.
- TRAVEL ACROSS THE TRACKS SHALL BE LIMITED TO ONLY THOSE CROSSINGS NECESSARY FOR THE SUCCESSFUL COMPLETION OF THE CONTRACTORS WORK.
- PRIOR TO CROSSING THE TRACKS, VEHICLES SHALL BE REQUIRED TO STOP, LOOK AND LISTEN FOR RAIL TRAFFIC. UNDER NO CIRCUMSTANCES SHALL A VEHICLE BE PERMITTED TO STOP ON THE UPRR TRACKS.

SAWS Job No. 10-6501	
300 E. SONTERRA BLVD., STE. 1250 SAN ANTONIO, TEXAS 78258 TBPE FIRM NO. 1741	
CP&Y	
DATE: FEBRUARY 2012	DESIGN BY: EG
	DR.OWN BY: RG
	CHECKED BY: JM
	SCALE: AS SHOWN
	
SAN ANTONIO WATER SYSTEM	
	
SAWS Job No. 10-6501 LEON CREEK WRC INTERCONNECT TO THE SBSP	GENERAL NOTES II
Sheet G-6	
6 OF 113	

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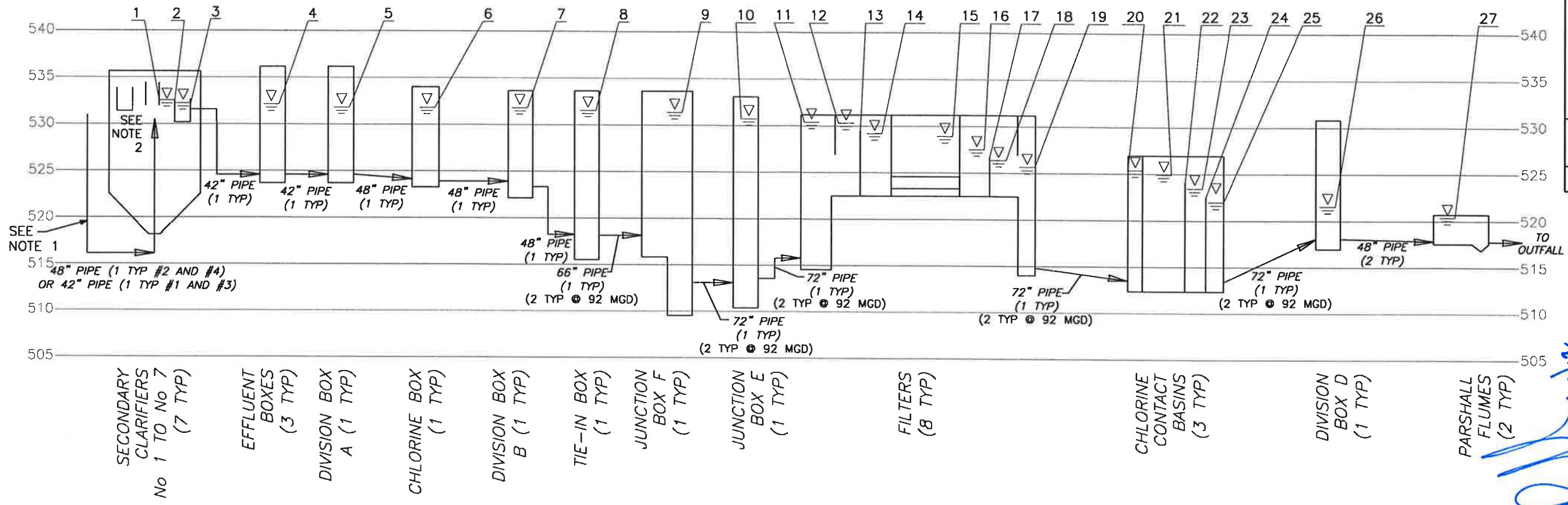
No.	Structure	Location Description	WSEs (Q = 92 MGD)	WSEs (Q = 70 MGD)	WSEs (Q = 33 MGD)
1	Diversion Structure	Influent Box (Upstream of Weirs)	542.35	541.41	540.75
2	Diversion Structure	Weir Elevation (to SBSP Interconnect Line)	541.05	540.11	539.45
2	Diversion Structure	Weir Elevation (to FEBs)	541.56	540.63	Closed
3	Return Flow Structure	Basin	542.00	541.20	540.69
4	Headworks	Influent Channel (Upstream of Bar Screen)	541.59	540.95	540.63
5	Headworks	Effluent Channel (Downstream of Bar Screen)	541.24	540.69	540.54
6	Aerated Grit Chamber	Main Basin	540.54	540.20	540.17
7	Aerated Grit Chamber	Weir Elevation	539.52	539.52	539.52
8	Common Effluent Box	Downstream Section of Basin	539.38	538.24	537.55
9a	Common Effluent Box	Flow Splitter Box Drop Box	539.29	537.24	offline
10a	Primary Clarifier No 1 & 2	Flow Splitter Box	538.04	536.68	offline
11a	Primary Clarifier No 1 & 2	Basin	536.97	536.18	offline
12a	Primary Clarifier No 1 & 2	Weir Elevation	536.00	536.00	536.00
13a	Primary Clarifier No 1 & 2	Effluent Box	536.86	535.87	offline
9b	Common Effluent Box	Flow Splitter Box Drop Box	539.32	538.14	537.42
10b	Primary Clarifier No 3 & 4	Distribution Box	537.28	536.67	536.49
11b	Primary Clarifier No 3 & 4	Basin	536.80	536.34	536.30
12b	Primary Clarifier No 3 & 4	Weir Elevation	536.13	536.13	536.13
13b	Primary Clarifier No 3 & 4	Effluent Box	536.74	536.10	535.38
14	Mixing Chamber	Inlet	535.69	535.34	534.90
15	Aeration Basin	Influent Channel	534.88	534.79	534.68
16	Aeration Basin	Weir Elevation	534.25	534.25	534.25
17	Aeration Basin	Main Basin	534.15	534.11	534.06
18	Aeration Basin	Weir Elevation	533.84	533.84	533.84
19	Aeration Basin	Effluent Channel	533.56	533.69	533.53

NOTES:

- METER VAULT AND ALL PIPE SIZE CHANGES NOT SHOWN FOR CLARITY. REFER TO FIGURE No 2-2a IN THE PRELIMINARY ENGINEERING REPORT.
- METER VAULT, ALL PIPE SIZE CHANGES AND JUNCTION BOXES NOT SHOWN FOR CLARITY. REFER TO FIGURE No 2-2a IN THE PRELIMINARY ENGINEERING REPORT.
- DEMOLISHED MIXING CHAMBER (WHICH SERVES AS A JUNCTION BOX) NOT SHOWN FOR CLARITY. REFER TO FIGURE No 2-2a IN THE PRELIMINARY ENGINEERING REPORT.
- HYDRAULIC PROFILE DOES NOT SHOW RAS, RETURN FLOW, DRAIN AND OTHER MISCELLANEOUS PIPELINES. REFER TO FIGURE No 2-2a IN THE PRELIMINARY ENGINEERING REPORT.
- ELEVATION VARIES. PLANT OPERATORS ADJUST GATE POSITIONING BASED ON DESIRED FLOW SPLIT TO THE PRIMARY CLARIFIERS.
- FLOWPATH SHOWN IS REPRESENTATIVE OF SECONDARY CLARIFIER No 4. REFER TO FIGURE No 2-2B IN THE PRELIMINARY ENGINEERING REPORT FOR ALTERNATE FLOWPATHS FROM OTHER SECONDARY CLARIFIERS.

THIS HYDRAULIC PROFILE IS PRESENTED FOR INFORMATIONAL PURPOSES ONLY AND SHALL NOT BE USED FOR CONSTRUCTION PURPOSES. IT WAS PRESENTED IN THE PRELIMINARY ENGINEERING REPORT DATED MAY 31, 2011. THE HYDRAULIC PROFILE DOES NOT REFLECT IMPROVEMENTS FROM THE LEON CREEK WATER RECYCLING CENTER INTERCONNECT TO THE SBSP PROJECT, WHICH INCLUDE, BUT ARE NOT LIMITED TO, FLOW DISTRIBUTION MODIFICATIONS AND FLOW RESTRICTIONS AT THE HEADWORKS.

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NOTES:

1. FLOW PATH SHOWN IS REPRESENTATIVE OF SECONDARY CLARIFIERS NO 2 AND NO 3. REFER TO FIGURE NO 2-2B IN THE PRELIMINARY ENGINEERING REPORT FOR ALTERNATE FLOW PATHS FROM OTHER SECONDARY CLARIFIERS.
2. PER RECORD DRAWINGS, WEIR ELEVATION = 532.63 FT. WEIR ELEVATION INDICATED HERE IS THE AVERAGE FOR ALL 7 SECONDARY CLARIFIERS (AS DETERMINED BY THE SURVEYOR).

THIS HYDRAULIC PROFILE IS PRESENTED FOR INFORMATIONAL PURPOSES ONLY AND SHALL NOT BE USED FOR CONSTRUCTION PURPOSES. IT WAS PRESENTED IN THE PRELIMINARY ENGINEERING REPORT DATED MAY 31, 2011. THE HYDRAULIC PROFILE DOES NOT REFLECT IMPROVEMENTS FROM THE LEON CREEK WATER RECYCLING CENTER INTERCONNECT TO THE SBSP PROJECT, WHICH INCLUDE, BUT ARE NOT LIMITED TO, FLOW DISTRIBUTION MODIFICATIONS AND FLOW RESTRICTIONS AT THE HEADWORKS.

No.	Structure	Location Description	WSFLs (Q = 70 MGD)
1	Secondary Clarifiers No. 1 - 7	Main Basin	532.64
2	Secondary Clarifiers No. 1 - 7	Weir Elevation	532.59
3	Secondary Clarifiers No. 1 - 7	Effluent Launder	532.25
4	Effluent Boxes	Secondary Clarifer No. 1 - 3 only	532.10
5	Division Box A	Main Channel	531.89
6	Chlorine Box	Main Channel	531.89
7	Division Box B	Main Channel	531.88
8	Tie-In Box	Main Channel	531.53
9	Junction Box F	Main Channel	531.24
10	Junction Box E	Main Channel	530.81
11	Filters	Influent Channel - Section 1	530.35
12	Filters	Influent Channel - Section 3	530.26
13	Filters	Influent Weir Elevation	529.40
14	Filters	Influent Channel - Section 4	529.23
15	Filters	Diamond Filters	528.98
16	Filters	Effluent Channel - Section 2	527.46
17	Filters	Effluent Weir Elevation	526.75
18	Filters	Main Effluent Channel - Section 1	526.36
19	Filters	Main Effluent Channel - Section 2	525.67
20	Chlorine Contact Basins	Inlet Channel	525.30
21	Chlorine Contact Basins	Main Basin	524.91
22	Chlorine Contact Basins	Weir Elevation	524.10
23	Chlorine Contact Basins	Outlet Channel	523.52
24	Chlorine Contact Basins	Weir Elevation	522.40
25	Chlorine Contact Basins	Weir Channel	521.99
26	Division Box D	Main Channel	521.52
27	Parshall Flumes	Main Channel	520.42

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