



Feathercrest and Stone Ridge Lift Stations Upgrades-Ph 3 and 4: New Feathercrest Lift Station
Solicitation Number: CO-00310-SM
Job No.: 19-2502

ADDENDUM 2
Wednesday, June 3, 2020

To Bidder of Record:

This addendum, applicable to work referenced above, is an amendment to the bid proposal, plans and specifications 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 issue date on the space provided in submitted copies of the bid proposal.

RESPONSES TO QUESTIONS

1. When will the Phase 1&2 contractor be finished?

Response: Construction of the Phase 1 and 2 project is currently scheduled for completion in January 2021.

2. What is required for the manhole rehab called out on Sheet C-021A?

Response: The manhole will require reconstruction per Specification 855 including replacement of ring of cover, reworking of manhole floor and invert channel to accommodate new direction of flow, as well as meet the coating requirement per Specification 855. Sheet C-021A will be revised to provide this clarification.

3. Is Builder's Risk required for this project?

Response: Yes, Builder's Risk will be required. Refer to Changes to the Specifications – Supplemental Conditions.

4. Please provide the flows at the following manholes: MH 52302, MH 66902, MH 23602?

Response:

MH23602: (near existing Feathercrest) Full flow in 21" = 18.18 MGD

Note that the existing 21" conveys most of the flow that will be rerouted to the new lift station. Design for the new lift station is based on average daily flow (1.61 MGD), peak dry weather flow (4.04 MGD), and peak wet weather flow (4.81 MGD).

MH66902: (South of Stone Ridge) Full flow in 8" = 1.38 MGD

MH352302: (North of Stone Ridge) Full flow in 10" = 1.52 MGD

5. Regarding the excavation of the proposed Feathercrest Lift Station, based on a 1:1 slope, it appears the top of excavation will extend past the property line and into the Northern Hills Lakes HOA property by approximately 10'. I'm assuming the contractor will have to shore the excavation as needed to stay within the property line and no work can extend past the property line. If any excavation can be done past the property line, it appears that several trees will have to be removed and replaced. Please advise.?

Response: A shoring system combined with, or instead of a sloped excavation shall be utilized as required to maintain construction within site limits. Excavation Safety Protection means and methods are the responsibility of the Contractor per General Note 4 on Sheet S-100. Also, reference note 7 on Sheet S-100 as it pertains to requirements for excavations over 20' deep.

6. Plan sheet 10 – lower left calls out the 3" air valve on the header as AVV. However, plan sheet 51 – detail 4 calls out this 3" air valve as ARV. Please, clarify.

Response: The header pipe shall have a 3" air release valve, ARI-S-020. For clarification, note that combination air release /vacuum valves, ARI D-020 or DeZurik APCO ASU, stainless steel type, are proposed on the discharge piping.

7. **Spec 15105 calls out all of the types of air valves as cast iron. However, the “Schedule of Manufacturers and Suppliers” only has info on combo type air valves are they are called out as SST316. Please, clarify.**
Response: Refer also to Question 6. Combination air valves and header air valve shall be stainless steel.
8. **The approved manufacturers in the “Schedule of Manufacturers and Suppliers” is different from what’s listed in the individual valve specs. Which takes precedence?**
Response: The “Schedule of Manufacturers and Suppliers” List takes precedence over the products listed in the Technical Specifications, for equipment items listed in the “Schedule of Manufacturers and Suppliers.”
9. **Several of the valve specs have multiple choices. Are all of them acceptable? If not, please, clarify which valve types take precedence.**
Response: Refer also to responses to Questions 6, 7, and 8. For further clarification on valve types: Check valves shall be flanged, non-slamming, AWWA C508 Swing Check valves. Isolation valves shall be as shown on drawings and as listed in the “Schedule of Manufacturers and Suppliers.” For sewage relief valve, provide spring controlled surge relief valve per specification 15118.
10. **In Spec Section 15020, paragraph 2.3 A.1 states, “unless otherwise specified in the Piping Schedule, all ductile iron pipe and fittings shall be provided with cement-mortar lining in accordance with AWWA C104.” I cannot find a Piping Schedule in either the Drawings or Specs. Please verify the required lining for the ductile iron pipe and fittings shall be cement-mortar.**
Response: Ductile iron pipe shall be epoxy-lined per 2.3 A.2 Refer to Changes to Drawing item with revision to provide this clarification.
11. **In Spec Section 15104, Part 2 – Products there are (6) six different types of check valves. On Drawing M-100, Note #3 intimates the type of check valve to be a Swing Check Valve with outside lever and weight as specified in paragraph 2.2 AWWA Swing Check Valves. Please verify the type of check valve required.**
Response: AWWA Swing Check valves shall be used. Refer also to the “Schedule of Manufacturers and Suppliers” for approved products.
12. **Please confirm that the interior walls of the lift station are to receive a 1” thick coating.**
Response: Interior walls lift station shall receive epoxy coating with minimum thickness of 250 mils. SAWS-approved epoxy coatings include: Warren Environmental Epoxy Systems, 301-14, 301-18, Sherwin Williams, Dura Plate 6100, and Quadex, Structure Guard. Additional clarification on manhole and wet well coatings will be provided in forthcoming Addendum No. 3.
13. **The plans show 2ea 5’ Dia FRP manholes (C-029A) (C-033A) which are both shown as new manholes. Bid items only reflect 1ea.**
Response: Manhole on C-029A is considered subsidiary to the lift station item.
14. **Can SAWS provide a recommended Bypass pumping plan with information on the flows so we can design our bypass pumping systems.**
Response: Refer to Section 01105 for suggested bypass pumping related to flow transfer.
15. **Sheet S-100 “Sub Grade and Backfill”, Note 4 references select fill adjacent to structures but I am unable to find the limits of the select fill. It says native may be used between the select fill and the limits of excavation. Please indicate where select fill is required adjacent to the wet well structure.**
Response: The select fill (5’ deep minimum) is required under the footprint of the pipe support slab, adjacent to the wet well.

CHANGES TO THE SPECIFICATIONS

1. **Invitation to Bidders:** Remove paragraph six (6), Page IV-1, and replace with the following:

“Due to the COVID-19 emergency and to protect the health of the public, SAWS is implementing new procedures for the submission of bids. Bids will be received either Electronically or through Sealed bids, until 11:00 AM (CDT), June 11, 2020, 2020. Electronic bids will be received via the secure SAWS FTP site.

Sealed bids will be received by Contract Administration, 2800 U.S. Hwy 281 North, Tower II, Customer Center Building, **via a drop box located on the left wall when walking through the first set of double glass doors of the main Tower II entry on the north side of the building**, San Antonio, Texas 78212. See the Electronic Bid Opening Instructions attachment for additional information regarding an electronic bid submittal. **Electronic** bids shall be accompanied by a bid bond in an amount not less than five percent of the total bid price. (Or, if providing SAWS with a cashier's check or certified check in an amount not less than five percent of the total bid price, SAWS will request this within 24 hours from the apparent low bidder. **Sealed** bids must be accompanied by a cashier's check, certified check, or bid bond in an amount not less than five percent of the total bid price. Bids will then be publicly opened and read aloud by Contract Administration via WebEx.

If Bidders intend to submit bids electronically, Bidders will need to submit a request by **June 10, 2020 by 12:00 PM CDT** to receive access to the File Transfer Protocol (FTP) site via email to **Stella.Manzello@saws.org**. Bidder's email requesting access to the FTP site shall provide the legal name of Bidder's company and the intended recipient's email address and phone number. No requests for FTP site access will be accepted after **June 10, 2020 by 12:00 PM (CDT)**."

2. **Manufacturer's Equipment List, Page MEL 1-3:** Replace Section in its Entirety.
3. **Supplemental Conditions:** Remove Installation Floaters paragraph, Page SS-4 (Supplemental Conditions). Section 5.7.1.1.7.8 shall remain the same.
4. **Section 15104 Valves, Check:** Delete 2.2 4 Manufacturers and replace with: "Reference Section "Schedule of Manufacturers and Suppliers" for approved products."
5. **Section 15105 Valves, Air Release and Vacuum Release:**
 - a. 2.1.A. Manufacturers:
Delete section and Replace with: "Reference Section "Schedule of Manufacturers and Suppliers" for approved products."
 - b. 2.3.B.6. Products:
Delete section and Replace with: "Reference Section "Schedule of Manufacturers and Suppliers" for approved products."
 - c. 2.5.B.6. Products:
Delete section and Replace with: "Reference Section "Schedule of Manufacturers and Suppliers" for approved products."
6. **Section 15107 Valves, Knife Gate:**
 - a. 2.1.A.6. Manufacturers:
Delete and replace with: "Reference Section "Schedule of Manufacturers and Suppliers" for approved products."
 - b. 2.2 Delete Sections A and B.

CHANGES TO THE PLANS

1. **Sheet C-101:**
 - a. Add Note 8: "ALL SIDEWALKS, CURBS, RAMPS, AND DRIVE APPROACHES IN THE RIGHT OF WAY SHALL BE IN COMPLIANCE WITH CURRENT TEXAS ACCESSIBILITY STANDARDS AND CITY OF SAN ANTONIO DESIGN STANDARDS PRIOR TO FINAL INSPECTION APPROVAL."
 - b. Add Tree Canopy Requirements Table.
2. **Sheet C-021-A:**
 - a. At Ex. MH 947638, Station 1+28.47, change callout to "REHABILITATE" to "RECONSTRUCT AND COAT".
 - b. At Ex. MH 947638, Station 1+28.47, add callout, "CUT AND PLUG EXISTING OUTFLOW B. CONTRACTOR SHALL REWORK INCOMING INVERT TO ACCOMMODATE DIRECTION OF THE FLOW TO THE PROP. MH 16".
3. **M-100:** Replace entire sheet with attached.

4. **M-900:** Detail 4, Air release valve and Isolation valve on header shall be 3”.
5. **S-101:** Add pipe penetration to Top Plan, consistent with penetration shown on M-100 and M-103.
 - a. Air release valve and Isolation valve on header shall be 3”.

CLARIFICATIONS

1. None provided with this addendum.

END OF ADDENDUM

This Addendum, including these 4 (4) pages, is ten (10) pages with attachments in its entirety.

Attachments:

C-101 – Site Plan

M-100 – Mechanical Top Plan

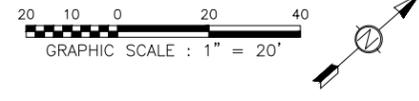
Manufacturer’s Equipment List



Maridel Reyes Jimenez
6-3-2020

Maridel Jimenez, PE
Plummer (TBPE No.F-13)

TREE PROTECTION TABLE LINE B DUAL 18" FORCE MAIN					
TREE #	TAG #	TREE/CALIPER	STATION	OFFSET	REMOVAL Y/N
2211	278	10" OAK	18+86.51	61.96' L	N
2218	246	10" HACKBERRY	18+86.51	61.96'L	Y
2219	247	14" HACKBERRY	22+00.05	3.20' R	Y
2220	248	11" HACKBERRY	22+00.80	1.73' R	Y
2221	249	12" HACKBERRY	22+08.55	6.46' R	Y
2230	256	12" HACKBERRY	22+61.16	6.18' R	Y
2231	257	10" HACKBERRY	22+73.14	5.83' R	Y
2232	253	20" HACKBERRY	22+87.88	5.87' R	Y
2236	260	16" HACKBERRY	23+30.08	5.97' R	Y
2237	261	10" HACKBERRY	23+57.44	6.13' R	Y
2240	262	10" HACKBERRY	23+75.63	6.85' R	Y
2249	277	16" HACKBERRY	24+09.65		Y
2250	274	11" HACKBERRY	24+28.36		Y
2251	276	10" RETAMA	24+38.28		Y
2275	268	14" HACKBERRY	25+03.82		Y
2276	603	25" HACKBERRY	25+02.25		Y
2277	602	13" HACKBERRY	25+00.30		Y
2278	604	10" HACKBERRY	24+81.78		Y
2282	272	20" OAK	25+37.18		N
2283	605	12" HACKBERRY	25+28.97		N
2286	275	16" HACKBERRY	25+00.00		Y



LEGEND:

- ABND — ABANDONED WATER LINE
- W — EXISTING WATER LINE
- SS — EXISTING SS LINE
- SD — EXISTING STORM LINE
- OHE — EXISTING OVERHEAD ELECTRIC
- — — RIGHT OF WAY
- X — EXISTING FENCE
- — — PROPOSED FENCE
- — — PROPOSED SEWER LINE
- — — RAILROAD TRACKS
- - - - 806 - - - CONTOUR ELEVATIONS
- ⊙ LIGHT BASE
- ⊠ TRAFFIC CONTROL BOX
- ⊕ POWER POLE
- ⊙ CONTROL POINT
- ▨ TREES TO BE REMOVED (SEE NOTE 4 THIS SHEET)
- ▩ TREES THAT HAVE BEEN PREVIOUSLY REMOVED IN PH 1 & 2 (SEPARATE CONTRACT)

NOTES:

1. ALL REMOVABLE BOLLARDS TO BE 1'-0" FROM FACE OF STRUCTURES AND OUTSIDE WALL OF BURIED PIPE. THEY SHALL BE SPACED ON 5'0" CENTERS. FINAL NUMBER AND LOCATION OF BOLLARDS SHALL BE COORDINATED WITH THE ENGINEER.
2. REFER TO ELECTRICAL SITE PLAN FOR BURIED ELECTRICAL CONDUITS NOT SHOWN HERE.
3. SEE SHEETS C-102 AND C-103 FOR PAVING AND GRADING.
4. TREES SHOWN FOR REMOVAL PERMITTED IN PHASE 1 AND PHASE 2 UNDER SEPARATE CONTRACT. CONTRACTOR TO CONFIRM ANY TREES REMAINING OR REMOVED. CONTRACTOR TO PROVIDE PROTECTION AS REQUIRED.
5. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A LICENSED TREE MAINTENANCE PROFESSIONAL THROUGHOUT THE PROJECT PER CITY OF SAN ANTONIO ORDINANCE ARTICLE VIII SEC. 21-171.
6. CONTRACTOR SHALL REMOVE ALL DEBRIS AND OBSTRUCTIONS FROM SITE (NSPI).
7. CONTRACTOR IS ADVISED OF AN ONGOING CITY OF SAN ANTONIO ROADWAY CONSTRUCTION PROJECT AND IS ADVISED TO COORDINATE ACCORDINGLY.
8. ALL SIDEWALKS, CURBS, RAMPS, AND DRIVE APPROACHES IN THE RIGHT OF WAY SHALL BE IN COMPLIANCE WITH CURRENT TEXAS ACCESSIBILITY STANDARDS AND CITY OF SAN ANTONIO DESIGN STANDARDS PRIOR TO FINAL INSPECTION APPROVAL.

REQUIRED TREE CANOPY PLANTING

LOT 9 (0.1448 AC.=6,307.5 SF): 6,307.5 SF *25% =1,576.9 SF OF CANOPY REQ'D

LOT 10 (0.4961 AC=21,610.1 SF): 21,610.1*25% =5402.5 SF OF CANOPY REQ'D

TOTAL = 6,979.4 SF OF CANOPY REQ'D

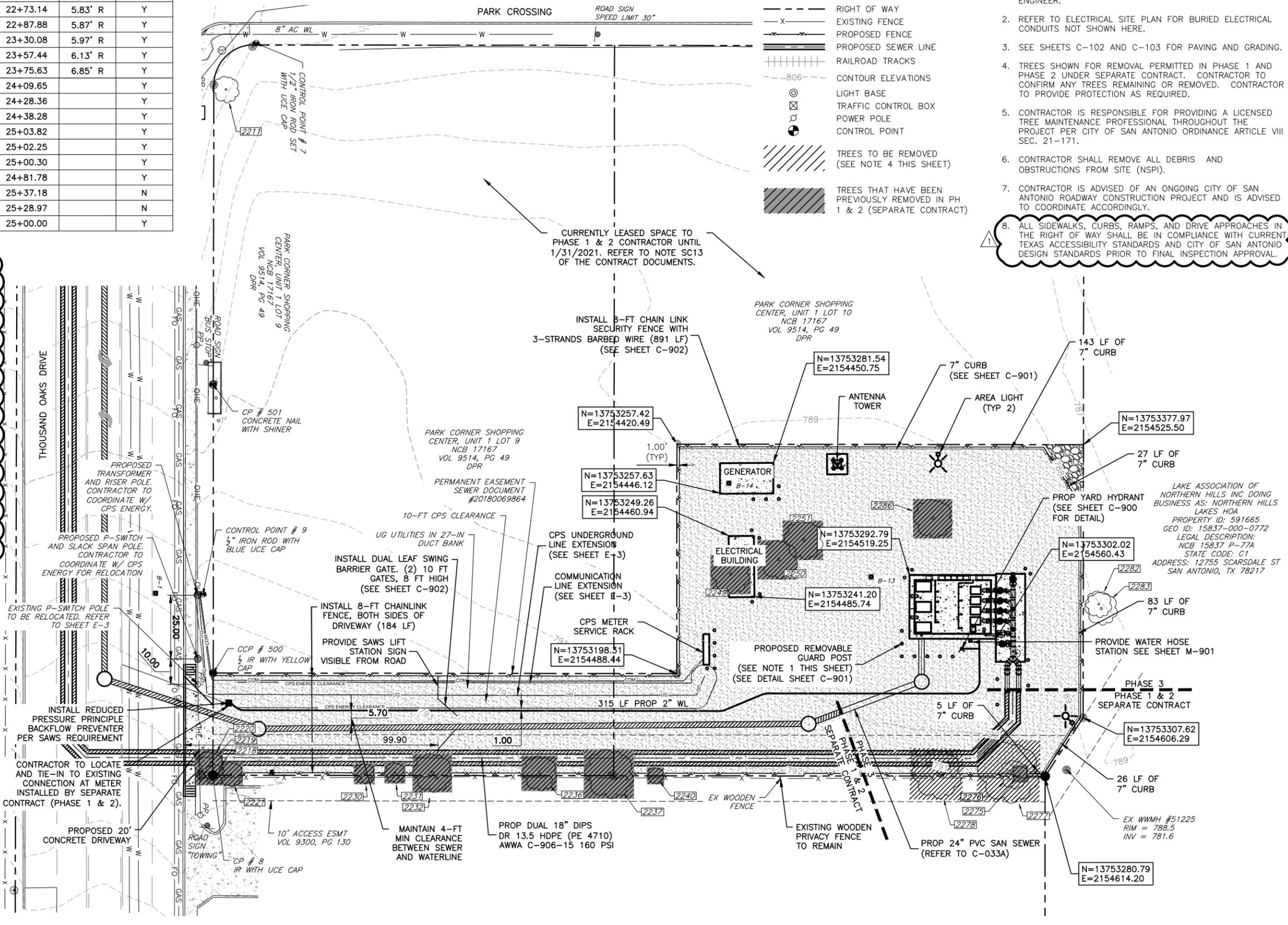
REQUIRED TREE CANOPY INCHES

LOT 9: 1,576.9 (SF)/875 =2 TREES @ 1.5"/TREE = 3 INCHES

LOT 10: 5,402.5 (SF)/875 =7 TREES @ 1.5"/TREE = 10.5 INCHES

TOTAL= 13.5 INCHES
*875 = ASSUMED SHADE VALUE

LOT	25% CANOPY	POTENTIAL MITIGATION COST
9	3 IN.	\$600
10	10.5 IN.	\$2,100
TOTAL		\$2,700



ALAN PLUMMER ASSOCIATES, INC.
ENGINEERS AND SCIENTISTS
1777 NE LOOP 410, SUITE 500
SAN ANTONIO, TEXAS 78217
PHONE: 210-510-0888
TEXAS REGISTERED ENGINEERING FIRM F-13

NO.	DATE	REVISION
1	16/2020	PER ADDENDUM NO. 2

San Antonio Water System

FEATHERCREST AND STONE RIDGE LIFT STATIONS UPGRADES
SAWS JOB NO. 19-2502
NEW FEATHERCREST LIFT STATION
SITE PLAN

DESIGNED: M. JIMENEZ
DRAWN: B. BAUMAN
CHECKED: APAL
REVIEWED: APAL

Seq. No. **C-101**

0535-013-01

PRINTED: 6/3/2020 9:20 AM S:\Projects\0535\013-01\01-01\01-01.dwg USER: Dickman, Brian

SCHEDULE OF MANUFACTURERS AND SUPPLIERS

The Contract Documents are based upon the equipment or products available for the manufacturers/suppliers denoted as "a", "b", etc., below. Bidder must indicate which manufacturer/supplier the bid was based upon by circling one of the listed suppliers/manufacturers. If the Bidder circles more than one listed supplier, the bidder must use the first supplier circled (unless an approved equal is authorized following the award of the construction contract). Bidder shall provide this schedule of manufacturers and suppliers with circled items with bid packet (refer also to Bid Packet Checklist).

Specification Number	Equipment	Approved Manufacturer or Supplier
09910	Coating (for exposed equipment outside the wet well)	<ul style="list-style-type: none"> a) Tnemec b) Sherwin-Williams c) PPG d) M.A.B. Paints
09910	Concrete Wet Well Lining	<ul style="list-style-type: none"> a) Sherwin Williams b) Warren Environmental c) ConShield d) Quadex e) Permaform f) Strong-Seal g) Kerneos h) Standard Cement Material, Inc. i) SAWS- approved equal
11000	Submersible Pumps	<ul style="list-style-type: none"> a) Xylem, Inc. - Flygt
13120	Electrical Building	<ul style="list-style-type: none"> a) AES Precast Company, Inc. b) Concrete Modular Structures (CMS) c) Crest Precast, Inc. d) EASI-SET™/EASI-SPAN e) Lonestar Prestress Mfg., Inc. f) Modular Connections, LLC g) Oldcastle Precast, Inc. h) Speedfab
13120	Heating, Ventilation, and Air Conditioning (HVAC)	<ul style="list-style-type: none"> a) Specific Systems b) Industrial Climate Engineering - Custom Air Products & Services
15104	Check Valves	<ul style="list-style-type: none"> a) Clow Style 106LW b) Mueller #2600-6-01 c) Kennedy IBBM Swing Check Valve d) American "50" Line with Weight and Lever (provided cover is circular and bolt pattern allows for connection of a flange fitting)

Specification Number	Equipment	Approved Manufacturer or Supplier
15105	Air Release Valves	<u>Combination Air Release Valves</u> a) ARI D-020 (stainless steel 316 type) b) DeZurik APCO ASU (stainless steel 316 type) <u>Air Release Valve (at Header Pipe)</u> a) ARI S-020 b) SAWS-approved equal
15107	Station Isolation Valves	<u>Gate Valves</u> a) Clow F-6102 b) Mueller A-2360 c) Kennedy 4561/4701 <u>Knife Gate Valves:</u> c) Wey® Valve, Inc., Model VM d) SAWS-approved equal
16050	Elapsed Time Meters	a) Eaton b) Honeywell c) Redington
16431	Low Voltage Motor Control Center	a) Eaton b) Siemens c) Square D d) General Electric e) ABB
16451	Low-Voltage Surge/Lightning Arrestors Surge Protective Device With Encloser and Breaker (Main Fused Disconnect Switch)	a) Eaton Model SPD 250 480Y 1 Q
16451	Surge Protective Device (Power Panelboard)	a) Eaton Model SPD 250 208Y 1M b) SAWS-approved equal
16461	Transformers-General Purpose 3-Phase	a) Eaton b) Siemens c) Square D d) FPT (Federal Pacific) e) ABB

Specification Number	Equipment	Approved Manufacturer or Supplier
16501	Automatic Transfer Switch	<ul style="list-style-type: none"> a) Asco b) Russelectric c) Zenith d) Onan e) Generac f) Cummins g) Kohler h) Caterpillar i) MTU Onsite Energy (Katolight)
16600	Generator	<ul style="list-style-type: none"> a) Kohler b) Cummins Power Generation c) Caterpillar d) Generac e) MTU Onsite Energy (Katolight)
16921	Autodialer	<ul style="list-style-type: none"> a) Raco Verbatim
16921	SCADA Panel PLC	<ul style="list-style-type: none"> a) Allen Bradley ControlLogix Controller (L33)
16921	SCADA enclosure	<ul style="list-style-type: none"> a) Hoffman Enclosure Co. b) Rittal c) Eaton B-Line
16921	Temperature Transmitter	<ul style="list-style-type: none"> a) Ultra Electronics model #753-PC-X4-(0°F to 150°F) transmitter with RTD
16930	Force main discharge pressure transmitter	<ul style="list-style-type: none"> a) Rosemount model 2088G2S22A1B4E5M4S1
16930	Main Electrical Disconnect	<ul style="list-style-type: none"> a) Square D, Class 3110, 600-volt, Model H36_SS, or equal from other listed manufacturers b) Siemens c) General Electric d) Eaton
16930	Level Control	<ul style="list-style-type: none"> a) Siemens (Milltronics HydroRanger200)
16930	Level Float Switch	<ul style="list-style-type: none"> a) Flygt ENM-10, or equal

16930	Submersible Level Transducer	a) Mercoid model PBLT2 or equivalent
SP 853	Fiberglass Reinforced Polyester (FRP) Manhole	a) L.F. Manufacturing b) Containment Solutions c) SAW-approved equal