



Castroville Rd. 48-Inch Rehab Project- DR 144 Project
Solicitation Number: CO-00098-SM
Job No.: 14-4652

ADDENDUM 3
October 4, 2016

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. Question: Can CIPP staging areas be expanded to as much as 25' x 200' to accommodate on-site wetting operations in order to avoid installation of intermediate manholes?**

Response: A larger staging area can be accommodated. Any proposed staging areas that may differ from those shown in the plans must be submitted by the winning bidder at time of construction. Changes in staging area that impact the traffic control plan will require a revised traffic control plan to be prepared and submitted by the Contractor, signed and sealed by a PE registered in the state of Texas. Note that equivalent traffic control should be maintained (e.g. two-way traffic with a flagger at Herbert and Castroville)

- 2. Question: Are videos from television inspection available for review?**

Response: Yes, videos are available for download. To access the videos the bidder must complete and submit the attached release form; the password required to view the videos will be provided on receipt of this form. NOTE: These videos are provided for information purposes only, and are not included in the bid documents. The deterioration is an ongoing process, so the condition at the time of construction may be substantially different from that shown in the videos.

<https://transfer.saws.org/?ShareToken=F3CAAB170EBE954BEB6F5A8ED7C25D8FEB57E3B0>

- 3. Question: There have been reports of flow able fill having been used in previous projects near the Airlawn / Castroville point repair location.**

Response: Please note that the soils for this project are "unclassified"

- 4. Question: There is a potential conflict between TCEQ infiltration and exfiltration testing requirements and ASTM CIPP requirements. What are the SAWS testing requirements?**

Response: See SAWS Standard Specification for Construction, Item 849, Sanitary Sewer Pipe Air and Deflection Testing, paragraph 849.4.2

- 5. Question: Can the flow inside the suction manhole be surcharged 10-12 feet for a manageable suction lift during bypass pumping?**

Response: For small diameter mains, a maximum of two (2) feet from the invert will be allowed. For large diameter mains, a maximum of one (1) pipe diameter above the crown will be allowed.

6. **Question: With the number of point repairs specified, permits, restoration, etc. and needing to be accomplished prior to the CIPP install, meeting the 180 calendar day contract time is of great concern. Will SAWS extend the contract time to 300 days or to an amount greater than 180 days deemed tolerable by SAWS?**

Response: The allotted time seem sufficient. Contractor will be required to submit a detailed schedule at time of bid.

7. **Question: Why is the Pre-TV bid item 400 LF more than the Post-TV bid item?**

Response: We would like to have the "gap" of pipe cleaned and televised (previously repaired). See also revisions to Sheet 24 callout.

8. **Question: What concrete removal location is the bid item "Remove Miscellaneous Concrete" referring to?**

Response: If needed, there is a manhole that could be used as an entry pit that has a concrete shelf. This bid item is to account for any removal of that shelf needed to utilize that manhole. See also revisions to Sheet 21.

9. **Question: "Special CIPP Note" # 3 on plans calls for epoxy coating or a "Top Hat" on all services. We respectfully request a pay item with an expected quantity be added to the bid form, for the rehabilitation of lateral connections.**

Response: A line item has been added to the bid form. (Bid form & quantity sheet only, not other sheets)

10. **Question: We respectfully request that a pay item be added to the bid form for the installation and abandonment of the temporary suction manhole, as detailed on page 6 of the plans.**

Response: The temporary suction manhole is to be include in the bypass pumping line item.

11. **Question: Can the bypass discharge be routed to or the vicinity of L.S. #6?**

Response: The bypass options presented in the plans are suggestions. Any proposed bypass routes that may differ from these suggestions will need to be submitted by the winning bidder at time of construction. Submitted bypass plans must comply with the bypass specifications include in the contract documents, including that the submittal must be signed and sealed by a PE registered in the state of Texas.

12. **Question: Can the bypass route near Airlawn be modified to utilize a vacant lot north of the suction manhole and an existing drainage channel?**

Response: The bypass options presented in the plans are suggestions. Any proposed bypass routes that may differ from these suggestions will need to be submitted by the winning bidder at time of construction. Submitted bypass plans must comply with the bypass specifications include in the contract documents, including that the submittal must be signed and sealed by a PE registered in the state of Texas. The means required to accomplish the bypass plan will be at the sole responsibility of the contractor. All costs should be included in the bid item from Bypass Pumping.

13. **Question: Can the box culvert be excavated to accommodate access to install the prescribed bends to the bypass discharge pipe? It is understood that the work would require a TX DOT permit.**

Response: The bypass options presented in the plans are suggestions. Any proposed bypass routes that may differ from these suggestions will need to be submitted by the winning bidder at time of construction. Submitted bypass plans must comply with the bypass specifications include in the contract documents, including that the submittal must be signed and sealed by a PE registered in the state of Texas. The means required to accomplish the bypass plan will be at the sole responsibility of the contractor. All costs should be included in the bid item from Bypass Pumping. TxDOT approval of that approach would be required.

14. **Question: Will alternate bypass routes be allowed, if reasonable, workable and less disruptive?**

Response: The bypass options presented in the plans are suggestions. Any proposed bypass routes that may differ from these suggestions will need to be submitted by the winning bidder at time of construction. Submitted bypass

plans must comply with the bypass specifications include in the contract documents, including that the submittal must be signed and sealed by a PE registered in the state of Texas. The means required to accomplish the bypass plan will be at the sole responsibility of the contractor. All costs should be included in the bid item from Bypass Pumping.

- 15. Question: We respectfully request a pay item be added for the prescribed Uniformed Police Officers per hour.**

Response: This is included as part of Item 530. Please see special provision to technical specifications for more details.

- 16. Question: Please define and describe a “Jean Skirt” to the extent that, if deployed, the contractor will know exactly what SAWS expects to be installed.**

Response: “Jean Skirt” is a modification, sometimes called a “pocket” or “balloon” to the liner to accommodate the area where the top of the pipe is higher than in other areas. Contractor may propose other methods of accommodating or bridging this area.

- 17. Question: Please provide the Pavement Condition Index (PCI) for the intersections or areas of Callahan and Castroville Rd., Herbert and Castroville Rd, Air Lawn, Castroville Rd. and from Air Lawn to COSA R.O.W. limit. Please note any areas of Castroville Rd. that has a PCI requiring block to block, curb to curb pavement restoration.**

Response: The table below contains road condition data provided by the City of San Antonio for roadways relevant to the project. This information is provided for informational purposes only, and is not included in the bid documents. Pavement conditions change over time, so the condition at the time of construction may be substantially different from that shown in the table.

ID	STREETNAME	RouteAhead	RouteBack	PCI
406592	HERBERT LN	CASTROVILLE RD	ZUPAN LN	89.74
406599	ZUPAN LN	S CALLAGHAN RD	HERBERT LN	99.47
403521	AIRLAWN	CASTROVILLE RD	AIRPARK DR	63.17
406584	S CALLAGHAN RD	US HWY 90 W ACCESS RD & CASTROVILLE RD	ZUPAN LN	57.2
431532	CASTROVILLE RD	AIRLAWN	STATE HWY 151 ACCESS RD	86.09
403685	CASTROVILLE RD	HERBERT LN	AIRLAWN	81.67

- 18. Question: We respectfully request that the pavement restoration item be extended to include restoration for bypass piping install where SAWS has prescribed or has approved the route.**

Response: Pavement restoration associated with bypass pumping is incidental to bypass pumping and included in that bid item.

- 19. Question: Plan sheet 24 of 28. Please clarify or correct the Clean and TV designation of the 18” and 8”. It was observed that the pipe discharging into MH 47198 was approx. 12” dia. not 18**

Response: Sheet will be revised and included in this addenda.

- 20. Question: There is a qty of 3 Manholes to be Reconstructed as per specification 855. We found only 1, manhole Sta.0+00 A1 (542148), designated on the plans to “Reconstruct MH, if Needed”. Is this item to be used for CIPP install Manhole take down and restoration? If no, then how is it determined which manholes are to be reconstructed?**

Response: Yes, this item is to be used for CIPP installation manhole takedown and restoration.

- 21. Question: CIPP Specification 901 – Section 2.03 Catalyst Systems states that the secondary catalyst system shall be a maximum of 0.05%. The maximum should in fact be 0.5%.?**

Response: Correct. Replace Specification 901, Section 2.03 Catalyst Systems, last sentence with “The secondary catalyst shall be added at a maximum of 0.5% of the resin volume by weight unless otherwise approved by the Engineer.”

22. Question: Can “Pump and Haul” be used as a bypass practice on any portions of this project?

Response: Only on the smaller diameter piping system; see bypass pump specifications in contract documents.

23. Question: Is Sta. 8+38.75 and MH 33841 in TxDOT R.O.W.? If yes, then will SAWS secure the permit?

Response: SAWS will secure the permit for work within TX DOT ROW

24. Question: “Special CIPP Note” # 6 on plans – how will these voids be found under the 48”?

Response: This refers to any voids found during the pre-televising after the cleaning.

25. Question: Will the Flow Fill bid item also be used for point repair backfill?

Response: Yes.

26. Question: Is pay item 16 for the replacement of Manhole 961158? If no, then which Manhole is it for? If not damaged during point repair, then will it still be replaced?

Response: This reference appears to be to bid line 16, Item 852, “Sanitary Sewer Manhole, 4 ft Diameter (0’-6’)” This line item is included for use if manhole 961158 is required to be replaced. As noted on that sheet in the MH 961158 callout, “Replace if impacted by point repair”. Replacement is only called for if it is damaged during construction.

27. Question: Based on discussion, will additional manholes (2) be added as pay items for installation access points along Castroville Road?

Response: No; it is SAWS preference that on-site wetting be utilized to accommodate long runs instead of construction of additional manholes.

28. Question: Given the likelihood that an exact match of the liner upon installation and the transition of the 42” FRP and concrete 48” is not 100%, will SAWS take into consideration the potential for wrinkling of the liner and subsequent handling?

Response: SAWS understands the realities of installing large diameter CIPP. Any variance from the requirements established in Section 901 will be evaluated by SAWS and Engineer.

29. Question: Will the temporary suction manholes require coating? If yes, can the application of the seal slab and the interface between the seal slab and walls be addressed given there will be no access once installed?

Response: No coating is required for temporary suction manholes.

30. Question: According to the Bidder’s Checklist on page BC, the apparent low bidder is required to submit a financial statement, but in section IB24 on page IB-7, it says the financial statement is only required for a bid where the engineer’s estimate is over \$10 million. Since this engineer’s estimate is below \$3 million, please confirm that submittal of a financial statement will not be required.

Response: Financials will not be required for any bids less than \$10 million. (SEE ALSO 33 below)

31. Question: Section 901-1.03.A says the qualification required by this section are to be submitted with the bid, but per IB24 on page IB-7 and the Bidder’s Checklist on page BC, all Record of Performance / Similar Projects are only to be submitted by the Apparent Low Bidder with 1 day of the bid. Are the submittals required in 901-1.03.A required by all bidders with the bid, or by the ALB within 1 day of the bid? Also how much of section 1.03 is to be submitted, just section 1.03.A or 1.03.B & 1.03.C also?

Response: The submittal requirements for all of 901 must be submitted by the apparent low bidder only. These submittals must be submitted within one day of the bid opening.

32. **Question:** We are not sure what is required to be submitted under Section 901-1.03.A.2 for subcontractors. Does this section require us to name the subcontractors used on the 5 projects listed as experience for the bidder, or does this section require us to also provide a minimum of 5 projects experience for each subcontractor that will be used on this project? If this section is requiring experience to be provided for the subcontractors that will be used on this project, please clarify for which subcontract work categories (i.e. bypass, manhole rehabilitation, etc.) the experience would need to be provided.

Response: Provide list of subcontractors used on each of the five reference projects

33. **Question:** Section 901-1.03.A.3 requires the bidder to submit a financial statement with the bid, and also appears to require financial statements from all subcontractors. However, in section IB24 on page IB-7, it says the financial statement is only required for a bid where the engineer's estimate is over \$10 million. Since this engineer's estimate is below \$3 million, please confirm that submittal of a financial statement will not be required either for the bidder or for any subcontractors.

Response: Financials will not be required for any bids less than \$10 million. (SEE RESPONSE to 30 above)

34. **Question:** Regarding bid or post-bid submittals required for subcontractors in section 901-1.03, it is almost impossible to get this level of submittal information from subcontractors for submittal with the bid or even 1 day after the bid. For any bid or post-bid submittal requirements for subcontractors, please provide additional time for these submittals to be provided after the bid, and clarify that they would only need to be submitted by the apparent low bidder. Also, please clarify exactly which submittals will be required for subcontractors and which subcontract work categories (i.e. bypass, manhole rehabilitation, etc.) will need to provide which submittals.

Response: All submittal requirements for the apparent low bidder and its sub-contractors must be submitted within one day of bid opening.

35. **Question:** Section 901-2.02.B.3 requires the resin to be manufactured under ISO 9002, and section 901-2.04.J requires the CIPP tube to be manufactured under ISO 9002, but neither allow the use of ISO 9001. ISO 9002 is named "Quality System - Model for quality assurance in production, installation, and servicing", while ISO 9001 is named "Quality System - Model for quality assurance in design / development, production, installation and servicing". Since ISO 9001 coverage is broader than ISO 9002 while still covering all the same subjects as ISO 9002, please also allow the CIPP tube and resin manufacturing systems to comply with ISO 9001.

Response: Compliance with either ISO 9001 or ISO 9002 shall be acceptable

36. **Question:** Is SAWS allowing steam cure for the CIPP on this project? Steam cure is shown in the heading for section 901 and mentioned in the general section 901-1.01, but it is not included in the curing section 901-3.06. Please clarify.

Response: Steam curing is acceptable.

37. **Question:** Will the testing of the CIPP field samples be performed by the Engineer or the Contractor? Section 901-3.09.C says the Contractor is to give the samples to the Engineer for testing at a lab the Engineer selects, which implies the Engineer would be performing and paying for the tests. However, section 901-3.09.E says the testing and shipping of samples are the responsibility of the Contractor, and references payment for that testing being under an allowance that is not currently included in the bid schedule. These 2 sections appear to contradict each other. Please clarify who conducts and pays for the CIPP sample testing, and if it is by the Contractor, whether an allowance item be involved.

Response: Testing and associated costs are to be paid for by Contractor, and performed at by a third party submitted to SAWS for approval. There is no separate allowance for testing; cost of testing is to be included in the CIPP line items.

38. **Question:** Note 2 on sheet 7 says bypass piping must be protected by traffic barriers when within roadways. What are considered to be traffic barriers and in which specific streets would they be required to be used? Also, does this note apply to sheet 6 as well?

Response: Note also applies to Sheet 6. Roadways would include Airlawn, Castroville Rd, Herbert, Callaghan, and Zupan, as well as any other roadways where vehicular traffic shares ROW with bypass piping. Traffic barriers should be traffic channelization devices as required by TMUCD, and sufficient to protect pipes from traffic.

- 39. Question: On sheet 5 of 7 in the project drawings it notes a diameter and pipe type transition from 48" RCP to 42" FRP. What method was used to install the 42" FRP and can you provide the connection detail that joined the 48" RCP and 42" FRP.**

Response: According to plans of record, in 2010 a 42" FRP pipe was installed via slip lining with a transition concrete collar. The actual installation and current condition should be confirmed by the Contractor prior to performing the work.

CHANGES TO THE SPECIFICATIONS

1. Specifications revised as described in responses to questions above

CHANGES TO THE PLANS

1. Sheet 3 has been revised to reflect addition of service tap connections.
2. Sheet 4 has been revised to reflect changes to the General Notes.
3. Sheet 21 has been revised to clarification location of Miscellaneous Concrete removal item.
4. Sheet 24 has been revised to correct call out labels related to televising existing 48" pipe and line size label conflict.

CLARIFICATIONS

1. NONE



10/04/2016

S. Keller Drozdick, P.E.
Merrick & Company

END OF ADDENDUM

SUMMARY OF QUANTITIES

ITEM	DESCRIPTION	UNIT	LINE A QUANTITY					LINE B QUANTITY		TOTAL QUANTITY
			SHEET 19	SHEET 20	SHEET 21	SHEET 22	SHEET 23	SHEET 24	SHEET 25	
100.1	MOBILIZATION	L.S.								1
101.1	PREPARING RIGHT OF WAY	L.S.								1
103.4	REMOVE MISCELLANEOUS CONCRETE	SF			50					50
203.1	TACK COAT	GAL.			30	20		54	51	155
205.4	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP. DEPTH) (MILL & OVERLAY)	S.Y.			296	194		532	506	1528
206.1	10" ASPHALT TREATED BASE (COSA ITEM NO. 511.3)	S.Y.			22			22	22	66
208.1	SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH)	S.Y.			296	194		532	506	1528
413.1	FLOWABLE FILL (LOW STRENGTH)	C.Y.	157		96			78	172	503
530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING	L.S.								1
535.1	4 INCH WIDE YELLOW LINE THERMO PLASTIC	L.F.			132	88		100		320
537.6	PAVEMENT MARKER TYPE II-A-A	EA.			4	2		4		10
550.0	TRENCH EXCAVATION SAFETY PROTECTION	L.F.	33		28			22	43	126
553.0	STORM WATER POLLUTION PREVENTION PLAN	L.S.								1
848.0	8" PVC SANITARY SEWER LINE (6'-10')	L.F.							20	20
851.0	ADJUSTING EXISTING MANHOLES	EA.	1		2		1	1	2	7
852.0	SANITARY SEWER MANHOLE, 4 FT. DIAMETER (0'-6')	EA.						1		1
855.0	MANHOLE RECONSTRUCTED	EA.	1					1	1	3
864.0	BYPASS PUMPING	L.S.								1
866.0	SEWER MAIN PRE-TELEVISION & CLEANING (>30")	L.F.	400	550	550	550	531	539	439	3559
866.0	SEWER MAIN POST-TELEVISION INSPECTION (>30")	L.F.	400	550	550	550	268	400	439	3157
901.0	REHABILITATE 48" SANITARY SEWER MAIN BY CIPP	L.F.	344	550	550	550	268	400	439	3101
901.0	REHABILITATE 42" SANITARY SEWER MAIN BY CIPP	L.F.	56							56
901.0	RECONNECT SERVICE TAPS	EA.								1
910.2	MANHOLE AND SANITARY SEWER STRUCTURE REHABILITATION	S.F.			473		424	411	683	1991
1103.4	POINT REPAIR, ALL SIZES (0' - 9' LENGTH)	EA.	1		1			1	2	5
1103.4	EXTRA LENGTH POINT REPAIR, ALL SIZES	L.F.	15		5			5	10	35

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S. Keller Drozdick P.E.

ADDED LINE 901.0		10-04-16	
No.	Revision	Drawn	Approved
MERRICK & COMPANY		401 East Sonterra Blvd., Suite 250, San Antonio, TX 78258, Tel: (210) 446-4343, www.merrick.com	
CASTROVILLE RD 48 INCH REHAB PROJECT, DR 144 SAWS SEWER MAIN ADJUSTMENT		SUMMARY OF QUANTITIES	
DEVELOPER:			
CONT.		BUDGET PROJ. 33	
SUBMITTED _____			
APPROVED _____			
MAP No.	126572, 128572, 130572	SHEET 3	
SECT. No.	JOB No.	OF 28	
DR. PJ	CK. KC	SS NO. 14-4652	

GENERAL SEWER NOTES:

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1. All materials and construction procedures within the scope of this contract shall be approved by the San Antonio Water System (SAWS) and comply with the Plans, Specifications, General Conditions and with the following as applicable:
 - A. Current Texas Commission on Environmental Quality (TCEQ) "Design Criteria for Domestic Wastewater System", Texas Administrative Code (TAC) Title 30 Part 1 Chapter 217 and "Public Drinking Water", TAC Title 30 Part 1 Chapter 290.
 - B. Current TXDOT "Standard Specifications for Construction of Highways, Streets and Drainage."
 - C. Current "San Antonio Water System Standard Specifications for Water and Sanitary Sewer Construction."
 - D. Current City of San Antonio "Standard Specifications for Public Works Construction."
 - E. Current City of San Antonio "Utility Excavation Criteria Manual" (UECM).
2. The Contractor shall obtain SAWS Standard Details from SAWS website, http://www.saws.org/business_center/specs. Unless otherwise noted within design plans.
3. The Contractor is to notify and make arrangements with the SAWS Construction Inspection Division at 233-3500, and provide notification procedures the contractor will use to notify affected home residents and/or property owners 48 hours prior to excavation.
4. Locations and depths of existing utilities and service laterals shown on the plans are understood to be approximate. Actual locations and depths must be field verified by the Contractor at least 1 week prior to construction. It shall be the Contractor's responsibility to locate utility service lines as required for construction and to protect them during construction at no cost to SAWS.
5. The Contractor shall verify the exact location of underground utilities and drainage structures at least 1-2 weeks prior to construction whether shown on plans or not. **Please allow up to 7 business days for locates requesting pipe location markers on SAWS facilities.** The following contact information are supplied for verification purposes:

San Antonio Water System:
SAWS Utility Locates: <http://www.saws.org/Service/Locates>

COSA Drainage 207-8048
COSA Traffic Signal Operations 207-7720
Texas State Wide One Call Locator 1-800-545-6005 or 811

6. The Contractor shall be responsible for restoring existing fences, curbs, streets, driveways, sidewalks, landscaping and structures to its original or better condition as a result of damages done by the project's construction.
7. All work in Texas Highway Department and Bexar County right-of-way shall be done in accordance with respective construction specifications and permit.
8. The Contractor shall comply with City of San Antonio or other governing Municipality's tree ordinances when excavating near trees.
9. The Contractor shall not place any waste materials in the 100-year Flood Plain without first obtaining an approved Flood Plain Permit.
10. Any work completed without prior written authorization which is not included in these plans and specifications will not be compensated by the San Antonio Water System.
11. **Holiday Work:** Contractors will not be allowed to perform SAWS work on SAWS recognized holidays. Request should be sent to constworkreq@saws.org.

Weekend Work: Contractors are required to notify the SAWS Inspection Construction department 48 hours in advance to request weekend work. Request should be sent to constworkreq@saws.org.

Any and all SAWS utility work installed without holiday/weekend approval will be subject to be uncovered for proper inspection.

12. **PRE CON SITE VIDEO:** Before the start of any construction. The site must be video recorded by the contractor with one copy submitted to SAWS Inspections. A pre-site video will provide accurate documentation of the existing conditions. (NSPI)
13. **POWER POLE BRACING:** Contractors should be advised that there are existing overhead utility poles along the project corridor. Contractors should further be advised that if the distance from the outside face of a utility trench to the face of a utility pole is less than 5 feet, said utility pole is subject to bracing, based on a determination made by utility pole owner. Costs incurred by contractor for bracing of these utility poles is subsidiary to that respective utility company's work. It is advisable for the contractor to review the construction documents, and visit the construction site to determine potential impacts.

Water Section:

14. Prior to tie-ins, any shutdowns of existing mains of any size must be coordinated with the SAWS Inspection and/or SAWS Production groups at least one week or more in advance of the shutdown. The Contractor must also provide a sequence of work as related to the tie-ins; this is at no additional cost to SAWS or the project and it is the responsibility of the Contractor to sequence the work accordingly. SAWS Production Control Center 233-2016
15. Asbestos Cement (AC) pipe, also known as transite pipe which is known to contain asbestos-containing material (ACM), maybe located within the project limits. Special waste management procedures and health and safety requirements will be applicable when removal and/or disturbance of this pipe occurs. Payment for such work is to be made under Special Specification Item No. 3000, "Special Specification for Handling Asbestos Cement Pipe".

16. **VALVE REMOVAL:** Where the contractor is to abandon a water main, the control valve located on the abandoning branch will be removed and replaced with a cap/plug. (NSPI)

Sewer Section:

17. The Contractor is responsible for ensuring that no sanitary sewer overflow (SSO) occurs as a result of their work. All contractor personnel responsible for SSO prevention and control shall be trained on proper response. Should an SSO occur, the contractor shall:
 - A. Identify the source of the SSO and notify SAWS Emergency Operations Center (EOC) immediately at (210)233-2015. Provide the address of the spill and an estimated volume or flow.
 - B. Attempt to eliminate the source of the SSO.
 - C. Contain sewage from the SSO to the extent of preventing a possible contamination of waterways.
 - D. Clean up spill site (return contained sewage to the collection system if possible) and properly dispose of contaminated soil/materials.
 - E. Clean the affected sewer mains and remove any debris.
 - F. Meet all post-SSO requirements as per the EPA Consent Decree, including line cleaning and televising the affected sewer mains (at SAWS direction) within 24 hours.

Should the Contractor fail to address an SSO immediately and to SAWS satisfaction, they will be responsible for all costs incurred by SAWS, including any fines from EPA.

No separate measurement or payment shall be made for this work. All work shall be done according to guidelines set by the TCEQ and SAWS.

18. The Contractor shall provide bypass pumping of sewage around each segment of pipe to be replaced, in accordance with SAWS Standard Specification for Water and Sanitary Sewer Construction, Item No. 864, "Bypass Pumping". Payment for such work will be made under the bid item "Sanitary Sewer (Bypass Pumping)"(Lump Sum) as per SAWS Standard Specification for Water and Sanitary Sewer Construction, Item No. 864, "Bypass Pumping".

19. Prior to tie-ins, any shutdowns of existing force mains of any size must be coordinated with the SAWS Construction Inspection Division at 233-3500 and/or SAWS Production groups at least one week or more in advance of the shutdown. The Contractor must also provide a sequence of work as related to the tie-ins; this is at no additional cost to SAWS or the project and it is the responsibility of the Contractor to sequence the work accordingly.

20. **ELEVATIONS POSTED FOR TOP OF MANHOLES ARE FOR REFERENCE ONLY:** It shall be the responsibility of the Contractor to make allowances and adjustments for top of manholes to match the finished grade of the project's improvements. (NSPI).

AT&T TELEPHONE COMPANY NOTE:

THE EXISTENCE AND LOCATION OF UNDERGROUND CABLE INDICATED ON THESE PLANS IS TAKEN FROM THE BEST RECORDS AVAILABLE AND ARE NOT GUARANTEED TO BE ACCURATE. CONTRACTOR MUST CONTACT THE TELEPHONE COMPANY CABLE LOCATOR 48 HOURS PRIOR TO EXCAVATION AT 1-800-344-8377, CONTRACTOR HAS THE RESPONSIBILITY TO PROTECT AND SUPPORT TELEPHONE COMPANY PLANT DURING CONSTRUCTION.

TIME WARNER CABLE NOTE:

CONTRACTOR SHALL CONTACT THE ONE-CALL LOCATOR 48 HOURS PRIOR TO EXCAVATION AT 1-800-344-8377. CONTRACTOR IS RESPONSIBLE FOR PROTECTING AND SUPPORTING CABLE TV PLANT DURING CONSTRUCTION.

TRENCH EXCAVATION SAFETY PROTECTION

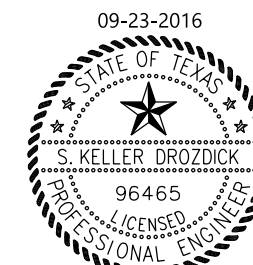
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/ EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S 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.

CPS ENERGY NOTES

1. CALL CPS ENERGY LOCATOR AT 1-800-344-8377, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.
2. DUE TO FEDERAL REGULATIONS 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.
3. OVERHEAD LINES EXIST IN THE WORK AREAS. THESE LINES MAY NOT HAVE BEEN MARKED ON THE DRAWINGS SINCE THEY ARE CLEARLY VISIBLE. THE CONTRACTOR SHALL LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH AND SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN TEN (10) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. CONTRACTOR SHALL MAINTAIN A MINIMUM CLEARANCE OF 3' RADIUS FROM NEUTRAL AND 10' RADIUS FROM PRIMARY BETWEEN PROPOSED TRAFFIC SIGNAL EQUIPMENT, INCLUDING SPAN WIRE, AND EXISTING OVERHEAD ELECTRICAL LINES.
4. THE CONTRACTOR IS LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS CARRIES BOTH CRIMINAL AND CIVIL LIABILITY.
5. CONTRACTOR SHALL NOT BEGIN WORK OR ACTIVITY UNTIL THE CONTRACTOR HAS NEGOTIATED A SATISFACTORY MUTUAL ARRANGEMENT WITH CPS ENERGY TO PROVIDE TEMPORARY DE-ENERGIZATION AND GROUNDING, TEMPORARY RELOCATION OR RAISING OF THE LINE, OR TEMPORARY MECHANICAL BARRIERS TO SEPARATE AND PREVENT CONTACT BETWEEN THE LINE AND THE MATERIAL OR EQUIPMENT OR THE PERSON PERFORMING THE WORK, ACTIVITY, OR FUNCTION.
6. CONTRACTOR SHALL PAY CPS ENERGY THE ACTUAL EXPENSE INCURRED BY THE OPERATOR IN PROVIDING THE CLEARANCE PRESCRIBED IN THE AGREEMENT. CPS ENERGY MAY REQUIRE PAYMENT IN ADVANCE AND IS NOT REQUIRED TO PROVIDE THE CLEARANCE UNTIL THE CONTRACTOR MAKES THE PAYMENT.
7. CONTRACTOR SHALL CONTACT AND COORDINATE WITH CPS ENERGY REPRESENTATIVE FOR POLES TO BE BRACED AND LINES TO BE DE-ENERGIZED AND/OR MOVED. CONTRACTOR IS RESPONSIBLE TO CPS ENERGY FOR ANY COSTS ASSOCIATED WITH BRACING OF POWER POLES OR DE-ENERGIZING AND/OR MOVING ANY CONFLICTING OVERHEAD POWER LINES.
8. WHEN EXCAVATING WITHIN TWENTY FOUR INCHES (24") OF THE INDICATED LOCATION OF CPS ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.
9. WHEN CPS ENERGY FACILITIES ARE EXPOSED, CONTRACTOR SHALL PROVIDE SUFFICIENT SUPPORT TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING.
10. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

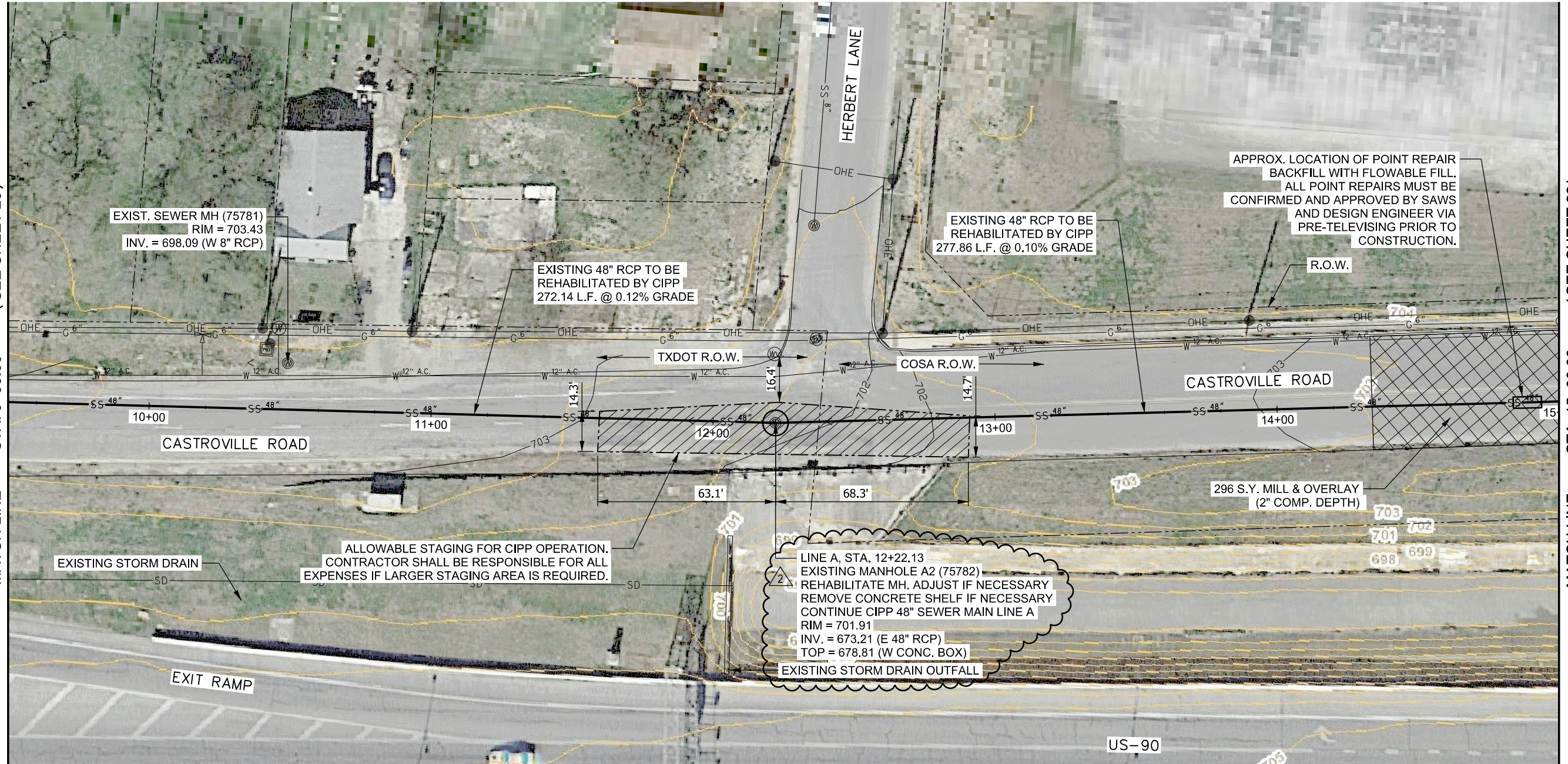
SPECIAL NOTES:

1. CONTRACTOR MUST NOTIFY AND/OR CONTACT SAWS INSPECTIONS AT 210-233-3500 48 HOURS BEFORE ANY OF THE FOLLOWING ACTIVITIES TAKE PLACE.
 - A. NOTIFICATION OF PRE-TELEVISION INSPECTION.
 - B. NOTIFICATION OF BYPASS PUMPING SETUP OPERATIONS.
 - C. NOTIFICATION OF THE CIPP INSTALLATION.
2. CONTRACTOR MUST FIELD VERIFY ALL DEPTHS, DISTANCES, PIPE SIZES AND GRADES BEFORE START OF CONSTRUCTION. (N.S.P.I.)
3. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER CONDITION FROM DAMAGES DONE TO EXISTING CURBS, STREETS, SIDEWALKS, LANDSCAPING AND STRUCTURES. (N.S.P.I.)
4. CONTRACTOR TO COORDINATE WITH RESIDENTS PRIOR TO COMMENCING CONSTRUCTION.
5. ALL POINT REPAIRS MUST BE CONFIRMED AND APPROVED BY SAWS AND DESIGN ENGINEER VIA PRE-TELEVISION PRIOR TO CONSTRUCTION.



S. Keller Drozdick P.E.

REVISIONS				10-04-16
No.	Revision	Drawn	Approved	Date
MERRICK & COMPANY				
401 East Soterra Blvd., Suite 250 San Antonio, TX 78258 Tel: (210) 446-4343 www.merrick.com				
CASTROVILLE RD 48 INCH REHAB PROJECT, DR 144 SAWS SEWER MAIN ADJUSTMENT SANITARY SEWER GENERAL NOTES				
DEVELOPER:				
CONT.			BUDGET PROJ. 33	
SUBMITTED _____				
APPROVED _____				
MAP No. 126572, 128572, 130572		SHEET		
SECT. No.		JOB No.		4
DR. PJ	CK. KC	SS NO. 14-4652		OF 28



MATCH LINE STA. 9+50.00 (SEE SHEET 20)

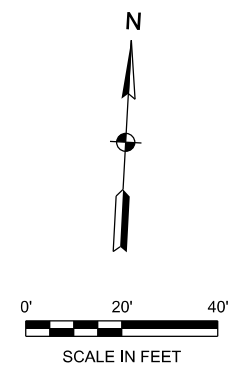
MATCH LINE STA. 15+00.00 (SEE SHEET 22)

SEWER LEGEND

- G 2" — EXISTING GAS
- SD — EXISTING STORM DRAIN
- W 24" — EXISTING WATER MAIN
- (W) — EXISTING METER
- X — EXISTING VALVE
- E — EXISTING ELECTRICAL LINE
- OHE — EXISTING OVERHEAD ELECTRICAL LINE
- COM — EXISTING COMMUNICATION
- T — EXISTING TELEPHONE LINE
- SS 8" — EXISTING SEWER MAIN
- - - - - ABANDON IN PLACE
- SS 48" — PROPOSED SANITARY SEWER
- O — PROPOSED SERVICE CLEANOUT
- ● — PROPOSED SANITARY SEWER MANHOLE

ESTIMATED QUANTITIES

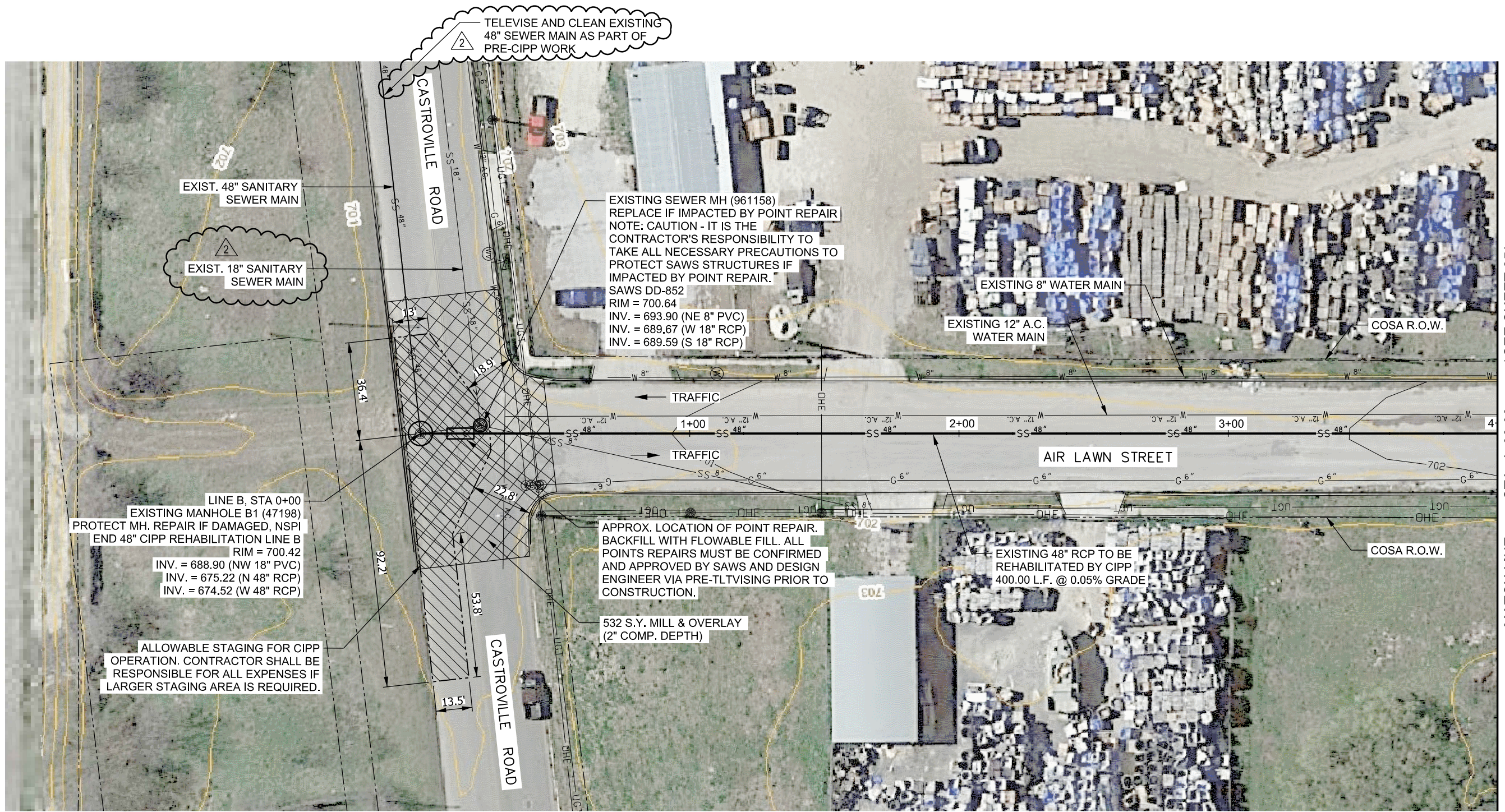
ITEM	DESCRIPTION	UNIT	QUANTITY
103.4	REMOVE MISCELLANEOUS CONCRETE	SF	50
203.1	TACK COAT	GAL.	30
205.4	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP. DEPTH) (MILL & OVERLAY)	S.Y.	296
206.1	10" ASPHALT TREATED BASE (COSA ITEM NO. 511.3)	S.Y.	22
208.1	SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH)	S.Y.	296
413.1	FLOWABLE FILL (LOW STRENGTH)	C.Y.	96
535.1	4 INCH WIDE YELLOW LINE THERMO PLASTIC	L.F.	132
537.6	PAVEMENT MARKER TYPE II-A	EA.	4
550.0	TRENCH EXCAVATION SAFETY PROTECTION	L.F.	28
851.0	ADJUSTING EXISTING MANHOLES	EA.	2
866.0	SEWER MAIN PRE-TELEVISION & CLEANING (>30')	L.F.	550
866.0	SEWER MAIN POST-TELEVISION INSPECTION (>30')	L.F.	550
901.0	REHABILITATE 48" SANITARY SEWER MAIN BY CIPP	L.F.	550
910.2	MANHOLE AND SANITARY SEWER STRUCTURE REHABILITATION	S.F.	473
1103.4	POINT REPAIR, ALL SIZES (0' - 9' LENGTH)	EA.	1
1103.4	EXTRA LENGTH POINT REPAIR, ALL SIZES	L.F.	5



09-23-2016

S. Keller Drozdick P.E.

REVISION		10-04-16
No.	Revision	Drawn
DEVELOPER:		BUDGET PROJ. 33
SUBMITTED		
APPROVED		
MAP No.	126572, 128572, 130572	SHEET 21
SECT. No.	JOB No.	28
DR. PJ	CK. KC	SS NO. 14-4652

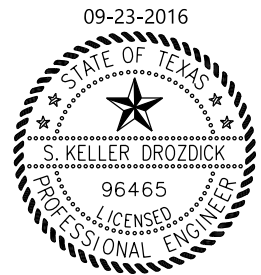
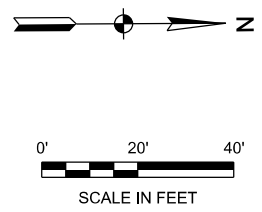


MATCH LINE STA. 4+00.00 (SEE SHEET 25)

SEWER LEGEND

- G 2" — EXISTING GAS
- SD — EXISTING STORM DRAIN
- W 24" — EXISTING WATER MAIN
- (W) — EXISTING METER
- X — EXISTING VALVE
- E — EXISTING ELECTRICAL LINE
- OHE — EXISTING OVERHEAD ELECTRICAL LINE
- COM — EXISTING COMMUNICATION
- T — EXISTING TELEPHONE LINE
- SS 8" — EXISTING SEWER MAIN
- — — — — ABANDON IN PLACE
- SS 48" — PROPOSED SANITARY SEWER
- O — PROPOSED SERVICE CLEANOUT
- ● — PROPOSED SANITARY SEWER MANHOLE

ITEM	DESCRIPTION	UNIT	QUANTITY
203.1	TACK COAT	GAL.	54
205.4	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP. DEPTH) (MILL & OVERLAY)	S.Y.	532
206.1	10" ASPHALT TREATED BASE (COSA ITEM NO. 511.3)	S.Y.	22
208.1	SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2" DEPTH)	S.Y.	532
413.1	FLOWABLE FILL (LOW STRENGTH)	C.Y.	78
535.1	4 INCH WIDE YELLOW LINE THERMO PLASTIC	L.F.	100
537.6	PAVEMENT MARKER TYPE II-A	EA.	4
550.0	TRENCH EXCAVATION SAFETY PROTECTION	L.F.	22
851.0	ADJUSTING EXISTING MANHOLES	EA.	1
852.0	SANITARY SEWER MANHOLE, 4 FT. DIAMETER (0'-6")	EA.	1
855.0	MANHOLE RECONSTRUCTED	EA.	1
866.0	SEWER MAIN PRE-TELEVISION & CLEANING (>30')	L.F.	539
866.0	SEWER MAIN POST-TELEVISION INSPECTION (>30')	L.F.	400
901.0	REHABILITATE 48" SANITARY SEWER MAIN BY CIPP	L.F.	400
910.2	MANHOLE AND SANITARY SEWER STRUCTURE REHABILITATION	S.F.	411
1103.4	POINT REPAIR, ALL SIZES (0' - 9' LENGTH)	EA.	1
1103.4	EXTRA LENGTH POINT REPAIR, ALL SIZES	L.F.	5



REVISIONS		10-04-16
No.	Revision	Date
CASTROVILLE RD 48 INCH REHAB PROJECT, DR 144 SAWS SEWER MAIN ADJUSTMENT SEWER PLAN - LINE B STA. 0+00 TO STA. 4+00		
DEVELOPER:		
CONT.	BUDGET PROJ.	33
SUBMITTED		
APPROVED		
MAP No.	126572, 128572, 130572	SHEET 24
SECT. No.	JOB No.	24
DR. PJ	CK. KC	SS NO. 14-4652 OF 28