



Stonehill Off-Site Sewer Extension Phase I
Solicitation Number: CO-00710
Job No.: 23-4518

ADDENDUM 2
October 20, 2023

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: How can I get a copy of the geotechnical report for this project?**
Response: Bore logs are included with this addendum.
- 2. Question: Is there a geotech report for this project?**
Response: See Response to Question #1.
- 3. Question: What type of soils is in this area?**
Response: Soils in the project area are unclassified; per the General Conditions, all excavations shall include all materials encountered regardless of their nature or the manner in which they are removed.
- 4. Question: Can you add a dewatering bid item for this project?**
Response: A dewatering bid item will not be added for this project.
- 5. Question: Do we need a TxDOT ROW permit or do you have a traffic control plan for the Hwy 90 crossing?**
Response: A copy of the TxDOT ROW permit approval will be provided to the Contractor.
- 6. Question: There is a significant amount of clearing, can you add an item for clearing?**
Response: A bid item will not be added for clearing; this work is included in Item 101: Preparation of Right of Way.
- 7. Question: Will the tie-in require bypass pumping?**
Response: No, the tie-in will not require bypass pumping; flows are not present at the downstream tie-in manhole.
- 8. Question: The engineer estimate seems too low since it has a significant amount of bores.**
Response: Engineer estimate has been revised.
- 9. Question: There is a note on the plans about aquatic features, is there any requirements and will there be a bid item to pump this water out of the alignment?**
Response: Contractor requirements for working in the area of the aquatic features are noted on plan sheets and in special conditions; a bid item will not be provided to pump water out of this area.
- 10. Question: Could you please clarify if bid item #21 "Sewer Main TV Inspection, Post (All Sizes)" should be SAWS specification No. 866 and not 966 on the Stonehill Off-site Sewer project?**
Response: Bid Item #21 "Sewer Main TV Inspection, Post (All Sizes)" should be SAWS Specification No. 866. Please see Changes to the Specifications #1 and Changes to the Plans #1 - 11.
- 11. Question: Is there any Geotech report associated with the above project?**

Response: See Response to Question #1.

- 12. Question: The Spec book says SMWB goal: vendor/sub must be certified by HUB program or South-Central Texas Regional Certification Agency. Sheet # IB-3. Does the certification via other government agencies such as City of Houston, North Central Texas Certification Agency etc reciprocity to these agencies mentioned in spec book. Means, are other government agencies such as City of Houston certification of SMWB is acceptable for SMWB goal? Please clarify.**

Response: Yes, the South Central Texas Regional Certification Agency does offer reciprocal certification to other members of the Texas Unified Certification Program (TUCP). Companies that are out of the jurisdiction of the South Central Certification Agency must apply for and receive a reciprocal certification for SAWS to recognize MBE, WBE, and SBE certification from other government agencies. The application for certification can be found here: <https://sctrca.gob2g.com/> Companies that are certified as HUBs will automatically be recognized by SAWS if they have a location in the SAWS Relevant Marketplace: Bexar, Comal, Guadalupe, Frio, Kendall, Travis, or Williamson county.

- 13. Question: Is geotechnical report available in this project for bidders?**

Response: See Response to Question #1.

- 14. Question: Will the owner be responsible for the TxDOT permit?**

Response: TxDOT permit has been secured; Contractor will be required to notify TxDOT prior to start of construction.

- 15. Question: Is there a TxDOT requirement for the bore under US Hwy 90?**

Response: TxDOT requirements to be provided with permit approval.

- 16. Question: Will 30% PS 75 PVC Vylon Sewer pipe (ASTM F1803) be allowed as an alternate to FRP?**

Response: No alternate pipe materials will be allowed as part of this bid.

- 17. Question: Can we please get the Geotech report for this project?**

Response: See Response to Question #1.

CHANGES TO THE SPECIFICATIONS

1. Remove the Bid Proposal in its entirety and replace with the attached revised Bid Proposal. Failure to use the revised version may result in the bid being found nonresponsive. Bid Item #21 "Sewer Main TV Inspection, Post (All Sizes)" revised to SAWS Specification No. 866.

CHANGES TO THE PLANS

1. Sheet C1.00: General Notes and Quantities – Remove in its entirety and replace with attached document.
2. Sheet C3.00: Plan and Profile Sta 1+00.00 to 11+00.00 – Remove in its entirety and replace with attached document.
3. Sheet C3.01: Plan and Profile Sta 11+00.00 to 21+00.00 – Remove in its entirety and replace with attached document.
4. Sheet C3.02: Plan and Profile Sta 21+00.00 to 31+00.00 – Remove in its entirety and replace with attached document.
5. Sheet C3.03: Plan and Profile Sta 31+00.00 to 41+00.00 – Remove in its entirety and replace with attached document.
6. Sheet C3.04: Plan and Profile Sta 41+00.00 to 51+00.00 – Remove in its entirety and replace with attached document.
7. Sheet C3.05: Plan and Profile Sta 51+00.00 to 61+00.00 – Remove in its entirety and replace with attached document.
8. Sheet C3.06: Plan and Profile Sta 61+00.00 to 71+00.00 – Remove in its entirety and replace with attached document.
9. Sheet C3.07: Plan and Profile Sta 71+00.00 to 81+00.00 – Remove in its entirety and replace with attached document.
10. Sheet C3.08: Plan and Profile Sta 81+00.00 to 90+00.00 – Remove in its entirety and replace with attached document.

11. Sheet C3.09: Plan and Profile Sta 90+00.00 to 93+74.91 – Remove in its entirety and replace with attached document.

END OF ADDENDUM

This Addendum, including these three (3) pages, is twenty two (22) pages with attachments in its entirety.

Attachments:

Bore Logs (5 pages)

Bid Proposal Form (3 pages)

C1.00 General Notes and Quantities (1 page)

C3.00 Plan and Profile Sta 1+00.00 to 11+00.00 (1 page)

C3.01 Plan and Profile Sta 11+00.00 to 21+00.00 (1 page)

C3.02 Plan and Profile Sta 21+00.00 to 31+00.00 (1 page)

C3.03 Plan and Profile Sta 31+00.00 to 41+00.00 (1 page)

C3.04 Plan and Profile Sta 41+00.00 to 51+00.00 (1 page)

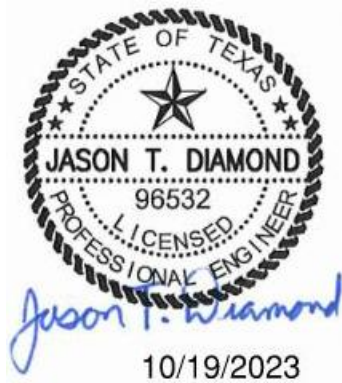
C3.05 Plan and Profile Sta 51+00.00 to 61+00.00 (1 page)

C3.06 Plan and Profile Sta 61+00.00 to 71+00.00 (1 page)

C3.07 Plan and Profile Sta 71+00.00 to 81+00.00 (1 page)

C3.08 Plan and Profile Sta 81+00.00 to 90+00.00 (1 page)

C3.09 Plan and Profile Sta 90+00.00 to 93+74.91 (1 page)



Jason Diamond, P.E.
Pape-Dawson Engineers, Inc.

LOG OF BORING

Project: Stonehill Development Water & Sewer Project

Project No.: SG 23 10200

Boring No.: SS-1

Date: 6/22/2023

Elevation: 763 feet

Groundwater during drilling: Not Encountered

Northing: 13,682,383.0

Station: --

Groundwater after drilling: Not Encountered

Easting: 2,035,839.3

Offset: --

ELEV. DEPTH, FEET	SOIL SYMBOLS SAMPLER SYMBOLS AND FIELD TEST DATA	SOIL/ROCK CLASSIFICATION	% PASSING NO. 200 SIEVE	DRY DENSITY PCF	<div style="text-align: center;"> SHEAR STRENGTH, TSF </div> <div style="text-align: center;"> MOISTURE CONTENT, % PLASTIC LIMIT LIQUID LIMIT </div>
0	5-10-12	Dark brown to tan, very stiff to hard, FAT CLAY with SAND (CH) , slightly moist. [Leona Formation]			○
760	10-17-21	calcareous deposits from 2' to 6'			
5	17-21-11				
755	9-12-16	Tan, very stiff, FAT CLAY (CH) , moist, trace gravel. [Leona Formation]			○
755	10-12-15	Tan, very stiff, FAT CLAY (CH) , moist to slightly moist. [Navarro Group and Marlbrook Marl]			○
750	5-6-12				
745	4-7-12				
740	50/1"	Tan, very hard, MUDSTONE , slightly moist. [Navarro Group and Marlbrook Marl]			○
735	50/1"				

LOG OF SOIL BORING STONEHILL WATER & SEWER.GPJ HVJ.GDT 7/3/23

Shear Types: ● = Hand Penet. ■ = Torvane ▲ = Unconf. Comp. * = UU Triaxial

PLATE 4



LOG OF BORING

Project: Stonehill Development Water & Sewer Project

Project No.: SG 23 10200

Boring No.: SS-2

Date: 6/22/2023

Elevation: 759 feet

Groundwater during drilling: Not Encountered

Northing: 13,681,876.3

Station: --

Groundwater after drilling: Not Encountered

Easting: 2,036,502.3

Offset: --

ELEV. DEPTH, FEET	SOIL SYMBOLS SAMPLER SYMBOLS AND FIELD TEST DATA	SOIL/ROCK CLASSIFICATION	% PASSING NO. 200 SIEVE	DRY DENSITY PCF	<div style="text-align: center;"> SHEAR STRENGTH, TSF ● 0.5 ■ 1.0 ▲ 1.5 ✱ 2.0 MOISTURE ○ CONTENT, % PLASTIC LIMIT ——— LIQUID LIMIT 10 20 30 40 50 60 70 80 90 </div>
0	7-9-8	Dark brown, very stiff, FAT CLAY (CH) , slightly moist, trace gravel. [Leona Formation]			
755	6-10-15	Tan, medium dense, CLAYEY SAND with GRAVEL (SC) , slightly moist. [Leona Formation]			
5	9-6-12			28	
750	6-15-24	dense from 6' to 8'.			
10	15-6-5			28	
745	6-11-21	Tan, hard, FAT CLAY (CH) , moist, trace gravel and calcareous deposits. [Navarro Group and Marlbrook Marl]			
15	9-30-50/3"	Tan to bluish gray, hard, MUDSTONE , slightly moist. [Navarro Group and Marlbrook Marl]			
740	50/3"				
735				57	
25					
730					
30					

LOG OF SOIL BORING STONEHILL WATER & SEWER.GPJ HVJ.GDT 7/3/23

Shear Types:

- = Hand Penet.
- = Torvane
- ▲ = Unconf. Comp.
- ✱ = UU Triaxial



LOG OF BORING

Project: Stonehill Development Water & Sewer Project

Project No.: SG 23 10200

Boring No.: SS-3

Date: 6/22/2023

Elevation: 746 feet

Groundwater during drilling: Not Encountered

Northing: 13,680,429.5

Station: --

Groundwater after drilling: Not Encountered

Easting: 2,037,332.8

Offset: --

ELEV. DEPTH, FEET	SOIL SYMBOLS SAMPLER SYMBOLS AND FIELD TEST DATA	SOIL/ROCK CLASSIFICATION	% PASSING NO. 200 SIEVE	DRY DENSITY PCF	<div style="text-align: center;"> <p>SHEAR STRENGTH, TSF</p> <p>MOISTURE CONTENT, %</p> <p>PLASTIC LIMIT LIQUID LIMIT</p> </div>
0 745 5 740 10 735 15 730 20 725 25 720 30	<p>4-5-9 5-10-12 6-11-19 12-19-26 20-23-15 5-7-14 4-5-10 5-6-15</p>	<p>Dark brown to tan, stiff to very stiff, FAT CLAY with SAND (CH), slightly moist to moist. [Leona Formation]</p> <p>Tan, hard, FAT CLAY with GRAVEL (CH), slightly moist. [Leona Formation]</p> <p>Tan, very stiff, FAT CLAY (CH), moist, trace calcareous deposits. [Navarro Group and Marlbrook Marl]</p>	<p>81</p> <p>63</p> <p>99</p> <p>98</p>	<p>81</p> <p>63</p> <p>99</p> <p>98</p>	

LOG OF SOIL BORING STONEHILL WATER & SEWER.GPJ HVJ.GDT 7/3/23

Shear Types:

- = Hand Penet.
- = Torvane
- ▲ = Unconf. Comp.
- * = UU Triaxial



SOIL SYMBOLS

Soil Types



Clay



Silt



Sand



Fill

Modifiers



Clayey



Silty



Sandy Clay



Cemented

Construction Materials



Asphaltic Concrete



Stabilized Base



Fill or Debris



Base

SAMPLER TYPES



Thin Walled Shelby Tube



No Recovery



Split Barrel



Auger



THD Cone Penetration Test



Jar Sample

WATER LEVEL SYMBOLS



Groundwater level determined during drilling operations



Groundwater level after drilling in open borehole or piezometer

SOIL GRAIN SIZE

Classification

Clay
Silt
Sand
Gravel
Cobble
Boulder

Particle Size

< 0.002 mm
0.002 - 0.075 mm
0.075 - 4.75 mm
4.75 - 75 mm
75 - 200 mm
> 200 mm

Particle Size or Sieve No. (U.S. Standard)

< 0.002 mm
0.002 mm - #200 sieve
#200 sieve - #4 sieve
#4 sieve - 3 in.
3 in. - 8 in.
> 8 in.

DENSITY OF COHESIONLESS SOILS

Descriptive Term	Penetration Resistance "N" * Blows/Foot
Very Loose	0 - 4
Loose	4 - 10
Medium Dense	10 - 30
Dense	30 - 50
Very Dense	> 50

CONSISTENCY OF COHESIVE SOILS

Consistency	Undrained Shear Strength (tsf)
Very Soft	0 - 0.125
Soft	0.125 - 0.25
Firm	0.25 - 0.5
Stiff	0.5 - 1.0
Very Stiff	1.0 - 2.0
Hard	> 2.0

PENETRATION RESISTANCE

3/6 Blows required to penetrate each of three consecutive 6-inch increments per ASTM D-1586 *
50/4" If more than 50 blows are required, driving is discontinued and penetration at 50 blows is noted
0/18" Sampler penetrated full depth under weight of drill rods and hammer

* The N value is taken as the blows required to penetrate the final 12 inches

TERMS DESCRIBING SOIL STRUCTURE

Slickensided Fracture planes appear polished or glossy, sometimes striated

Fissured Breaks along definite planes of fracture with little resistance to fracturing

Inclusion Small pockets of different soils, such as small lenses of sand scattered through a mass of clay

Parting Inclusion less than 1/4 inch thick extending through the sample

Seam Inclusion 1/4 inch to 3 inches thick extending through the sample

Layer Inclusion greater than 3 inches thick extending through the sample

Laminated Soil sample composed of alternating partings of different soil type

Stratified Soil sample composed of alternating seams or layers of different soil type

Intermixed Soil sample composed of pockets of different soil type and laminated or stratified structure is not evident

Calcareous Having appreciable quantities of calcium carbonate

Ferrous Having appreciable quantities of iron

Nodule A small mass of irregular shape

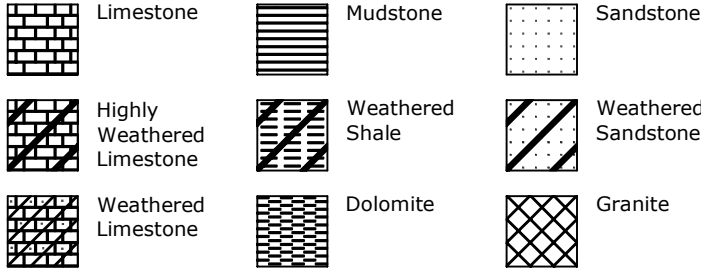


PROJECT NO.:
SG 23 10200

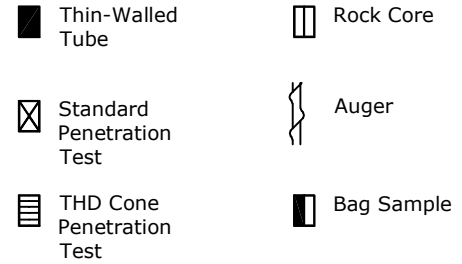
DRAWING NO.:
PLATE 7A

KEY TO TERMS AND SYMBOLS
USED ON BORING LOGS FOR SOIL

ROCK TYPES



SAMPLER TYPES



SOLUTION AND VOID CONDITIONS

Void	Interstice; a general term for pore space or other openings in rock.
Cavities	Small solutional concavities.
Vuggy	Containing small cavities, usually lined with a mineral of different composition from that of the surrounding rock.
Vesicular	Containing numerous small, unlined cavities, formed by expansion of gas bubbles or steam during solidification of the rock.
Porous	Containing pores, interstices, or other openings which may or may not interconnect.
Cavernous	Containing cavities or caverns, sometimes quite large. Most frequent in limestones and dolomites.

HARDNESS

Friable	Crumbles under hand pressure
Low Hardness	Can be carved with a knife, or UCS less than 100 tsf
Moderately Hard	Can be scratched easily with a knife, or UCS between 100 and 250 tsf
Hard	Can be scratched rarely with a knife, or UCS greater than 250 tsf
Very Hard	Cannot be scratched with a knife

WEATHERING GRADES OF ROCKMASS⁽¹⁾

Slightly	Discoloration indicates weathering of rock material and discontinuity surfaces.
Moderately	Less than half of the rock material is decomposed or disintegrated to a soil.
Highly	More than half of the rock material is decomposed or disintegrated to a soil.
Completely	All rock material is decomposed and/or disintegrated into soil. The original mass structure is still largely intact.
Residual Soil	All rock material is converted to soil. The mass structure and material fabric are destroyed.

DISCONTINUITY DESCRIPTION

Quantity of Discontinuities per Length

D - number of discontinuities per length

Dip of Discontinuity: measured relative to a plane normal to the core axis

H - High Angle, 60-90 degrees
M - Medium Angle, 30-60 degrees
L - Low Angle, 0-30 degrees

Surface Shape of Discontinuity

P - Planar
U - Undulating

Aperture (inches)

Unless otherwise noted, all discontinuities noted were tight

Weathering

UW - Unweathered; surface in its natural state without visible decomposition or discoloration
SW - Slightly weathered; surface is slightly discolored with no visible decomposition
W - Weathered; surface is completely discolored with zone of decomposed rock

Roughness of Surface

SLK - Slicksided; surface has smooth, glassy finish with visual evidence of striations
S - Smooth; surface appears smooth and feels so to the touch
SR - Slightly Rough; asperities on the discontinuity surfaces are distinguishable and can be felt
R - Rough; some ridges and side-angle steps are evident; asperities are clearly visible, and discontinuity surface feels very abrasive
VR - Very Rough; near vertical steps and ridges occur on the discontinuity surface

REFERENCES:

- (1) British Standard (1981) Code of Practice for Site Investigation, BS 5930.
- (2) The Bridge Div., Tx. Highway Dept. Foundation Exploration & Design Manual, 2nd Division, revised June, 1974.

BEDDING THICKNESS⁽²⁾

Very Thick	>4'
Thick	2'-4'
Thin	2"-2'
Very Thin	1/2"-2"
Laminated	0.08"-1/2"
Thinly Laminated	<0.08"

Information on each boring log is a compilation of subsurface conditions and soil and rock classifications obtained from the field as well as from laboratory testing of samples. Strata have been interpreted by commonly accepted procedures. The stratum lines on the logs may be transitional and approximate in nature. Water level measurements refer only to those observed at the times and places indicated, and may vary with time, geologic condition or construction activity.



PROJECT NO.:
SG 23 10200
DRAWING NO.:
PLATE 7B

KEY TO TERMS AND SYMBOLS
USED ON BORING LOGS FOR ROCK

Project Name: Stonehill Off-site Sewer Extension Phase I Project
Solicitation No.: CO-00710
Job No.: 23-4518

BID PROPOSAL

PROPOSAL OF _____, a corporation
a partnership consisting of _____
an individual doing business as _____

THE SAN ANTONIO WATER SYSTEM:

Pursuant to Instructions and Invitation to Bidders, the undersigned proposes to furnish all labor and materials as specified and perform the work required for the project as specified, in accordance with the Plans and Specifications for the following prices in the bid proposal to wit:

PLEASE SEE ATTACHED LIST OF BID ITEMS.

BIDDER'S SIGNATURE & TITLE

FIRM'S NAME (TYPE OR PRINT)

FIRM'S ADDRESS

FIRM'S PHONE NO. /FAX NO.

FIRM'S EMAIL ADDRESS

The Contractor herein acknowledges receipt of the following: **Addendum No(s)**. _____

OWNER RESERVES THE RIGHT TO ACCEPT THE OVERALL MOST RESPONSIBLE BID.

The Bidder offers to construct the Project in accordance with the Contract Documents for the contract price, and to complete the Project within **287** calendar days after the start date, as set forth in the Authorization to Proceed. **The bidder understands and accepts the provisions of the contract Documents relating to liquidated damages of the project if not completed on time.**

Complete the additional requirements of the Bid Proposal which are included on the following pages.

Statement on President's Executive Orders

Has your firm previously performed work subject to the President's Executive Orders Numbers 11246 and 11375 or any preceding similar executive orders (Numbers 10925 and 11114)? Yes No

Texas Government Code Chapter 2274 Verifications

- (1) Are you, Contractor, held or controlled by individuals who are citizens of China, Iran, North Korea, Russia or a country designated by the Governor of the State of Texas pursuant to Texas Government Code Chapter 2274? Yes No
- (2) Are you, Contractor, held or controlled by a company or other entity, including a governmental entity, that is owned or controlled by citizens of or directly controlled by the government of China, Iran, North Korea, Russia or a country designated by the Governor of the State of Texas pursuant to Texas Government Code Chapter 2274? Yes No
- (3) Are you, Contractor, headquartered in China, Iran, North Korea, Russia or a country designated by the Governor of the State of Texas pursuant to Texas Government Code Chapter 2274?
Yes No

Line No.	Item No.	Description	Unit	Quantity	Unit Price	Total Price
1	507	16' Wide Gate	EA	2	\$	\$
2	507.1	Temporary Construction Fence (4 Feet High)	LF	1,240	\$	\$
3	508.1	Remove and Replace Wire Fence	LF	210	\$	\$
4	530.1	Barricades, Signs and Traffic Handling (COSA Spec)	LS	1	\$	\$
5	540	SWPPP	LS	1	\$	\$
6	550	Trench Excavation Protection	LF	8,269	\$	\$
7	852	Sweeping 90 Degree FRP Tee Base Manhole, Miter, with Watertight Ring and Cover	EA	1	\$	\$
8	852	Sweeping 90 Degree FRP Tee Base Drop Manhole, Miter, with Watertight Ring and Cover	EA	1	\$	\$
9	852	Vented Sweeping 90 Degree FRP Tee Base Manhole, Miter, with Watertight Ring and Cover	EA	1	\$	\$
10	852	Vented FRP Tee Base Manhole, Miter, with Watertight Ring and Cover	EA	5	\$	\$
11	852	Vented FRP Tee Base Manhole with Watertight Ring and Cover	EA	1	\$	\$
12	852	FRP Tee Base Manhole, Miter, with Watertight Ring and Cover	EA	9	\$	\$
13	852	FRP Tee Base Drop Manhole, Miter, with Watertight Ring and Cover	EA	1	\$	\$
14	852	FRP Tee Base Manhole with Watertight Ring and Cover	EA	3	\$	\$
15	856	48" Steel Casing	LF	1,016	\$	\$
16	856.1	48" Jack and Bore Tunneling	LF	1,016	\$	\$
17	857	30" FRP Sanitary Sewer Main (Open Cut) (10'-15' Depth)	LF	2,806	\$	\$
18	857	30" FRP Sanitary Sewer Main (Open Cut) (15'-20' Depth)	LF	4,184	\$	\$
19	857	30" FRP Sanitary Sewer Main (Open Cut) (20'-25' Depth)	LF	1,279	\$	\$
20	857	30" FRP Sanitary Sewer Main (Carrier Pipe)	LF	1,016	\$	\$
21	866	Sewer Main TV Inspection, Post (All Sizes)	LF	9,285	\$	\$
22	SC-7	Revegetation (Drill Seeding with Native Mixture & Hydromulch)	SY	65,721	\$	\$
SUBTOTAL (ITEMS 1-22)				\$		

Project Name: Stonehill Off-site Sewer Extension Phase I Project
 Solicitation No.: CO-00710
 Job No.: 23-4518

23	100	Mobilization, Max 10% of Line Items 1-22	LS	1	\$
24	101	Preparation of Right-of-Way, Max 5% of Line Items 1-22	LS	1	\$
25	102	Intermediate Remobilization and Demobilization	EA	1	\$

Mobilization lump sum bid shall be limited to a maximum 10% of the Line Items "1-22" Sub-total Base Bid amount. Preparing Right-of-Way lump sum bid shall be limited to a maximum of 5% of the Line Item "1-22" Sub-total Base Bid amount. The Line Items "1-22" Sub-total Base Bid is defined as all bid items EXCLUDING Item 100, Mobilization and Item 101, Preparing Right-of-Way. **In the event of a discrepancy between the written percentage and dollar amount shown for Mobilization and Preparation of ROW bid items the written percentage will govern. If the percentage written exceeds the allowable maximum stated for mobilization and or preparation of ROW, SAWS reserves the right to cap the amount at the percentages shown and adjust the extensions of the bid items accordingly.**

TOTAL BID PRICE (TO INCLUDE LINE ITEMS 1 - 22 AND 23 - 25)	\$
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SAWS STANDARD GENERAL CONSTRUCTION NOTES

GENERAL CONSTRUCTION

- 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 CONSTRUCTION."
E. CURRENT CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL" (UECM)
2. THE CONTRACTOR SHALL OBTAIN SAWS STANDARD DETAILS FROM THE SAWS WEBSITE, HTTPS://APPS.SAWS.ORG/BUSINESS_CENTER/SPECS/CONSTSPECS/ UNLESS OTHERWISE NOTED WITHIN THE DESIGN PLANS.
3. THE CONTRACTOR IS TO NOTIFY AND MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT 210-233-3500 (DURING REGULAR SAWS WORKING HOURS) AND PROVIDE NOTIFICATION PROCEDURES THE CONTRACTOR WILL USE TO NOTIFY AFFECTED HOME RESIDENTS AND/OR PROPERTY OWNERS TWO (2) WEEKS PRIOR TO EXCAVATION. OUTSIDE OF REGULAR SAWS WORKING HOURS THE SAWS EOC SHOULD BE CONTACTED AT 210-704-7297.
4. IF NECESSARY, CONTRACTOR WILL COORDINATE USE OF SAWS PREMISES AT NO ADDITIONAL COST TO SAWS. SUCH EFFORTS INCLUDE, BUT ARE NOT LIMITED TO, OBTAINING SECURITY IDENTIFICATION BADGES REQUIRED FOR ACCESS TO SAWS FACILITIES.
5. 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 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.
6. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES PRIOR TO CONSTRUCTION WHETHER SHOWN ON PLANS OR NOT. AS-BUILTS FOR SAWS INFRASTRUCTURE CAN BE OBTAINED AT WEBSITE BELOW. CONTRACTOR SHALL COORDINATE PHYSICAL LOCATES FOR SAWS INFRASTRUCTURE THROUGH THE SAWS INSPECTOR. PLEASE ALLOW UP TO 7 BUSINESS DAYS FOR LOCATES REQUESTING PIPE LOCATION MARKERS ON SAWS INFRASTRUCTURE. THE FOLLOWING CONTACT INFORMATION ARE SUPPLIED FOR VERIFICATION PURPOSES:
SAN ANTONIO WATER SYSTEM:
REQUEST AS-BUILTS: HTTPS://WWW.SAWS.ORG/SERVICE/LOCATES-SERVICE/
COSA DRAINAGE 210-206-8433
COSA TRAFFIC SIGNAL OPERATIONS 210-207-7720
TEXAS STATEWIDE ONE CALL LOCATOR 1-800-545-6005 OR 811
7. 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.
8. CONTRACTOR SHALL NOT MAKE USE OF DUMPSTERS OR WASTE BINS THAT ARE INTENDED TO SERVE RESIDENTS AND/OR BUSINESSES.
9. ALL WORK IN TEXAS DEPARTMENT OF TRANSPORTATION AND BEXAR COUNTY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE CONSTRUCTION SPECIFICATIONS AND PERMIT.
10. THE CONTRACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO OR OTHER GOVERNING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.
11. ALL WORK WITHIN THE 100-YEAR FLOODPLAIN SHALL BE DONE IN ACCORDANCE WITH FLOODPLAIN DEVELOPMENT PERMIT.
12. 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.
13. HOLIDAY WORK: CONTRACTORS WILL NOT BE ALLOWED TO PERFORM SAWS WORK ON SAWS RECOGNIZED HOLIDAYS.
WEEKEND WORK: CONTRACTORS ARE REQUIRED TO SUBMIT REQUEST TO THE SAWS INSPECTION CONSTRUCTION DEPARTMENT BY 12:00 PM ON THE WEDNESDAY PRIOR TO THE WEEKEND BEING REQUESTED. REQUEST SHOULD BE SENT TO CONSTWORKREQ@SAWS.ORG
ANY AND ALL SAWS UTILITY WORK INSTALLED WITHOUT WEEKEND APPROVAL WILL BE SUBJECT TO BE UNCOVERED FOR PROPER INSPECTION AT NO COST TO SAWS.
14. 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).
15. 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. IT IS ADVISABLE FOR THE CONTRACTOR TO REVIEW THE CONSTRUCTION DOCUMENTS AND VISIT THE CONSTRUCTION SITE TO DETERMINE POTENTIAL IMPACTS.
16. CONSTRUCTION SEQUENCING: IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO SCHEDULE SEQUENCING FOR REMOVAL AND INSTALLATION OF EXISTING AND PROPOSED SAWS UTILITIES IN CONJUNCTION WITH GENERAL PROJECT CONSTRUCTION. SEQUENCE OF CONSTRUCTION ACTIVITIES SHALL BE CONSIDERED IN ORDER TO MINIMIZE THE EXTENT AND DURATION OF DISTURBANCES.
17. CONTRACTOR SHALL COMPLY WITH APPLICABLE REGULATIONS INCLUDING, BUT NOT LIMITED TO, THOSE OVERSEEN BY THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), OSHA INFORMATION AND RELATED MATERIALS MAY BE OBTAINED AT HTTPS://WWW.OSHA.GOV/ OR AT THE OSHA SAN ANTONIO OFFICE LOCATED AT FOUNTAINHEAD TOWER, SUITE 605 8200 W. INTERSTATE 10 SAN ANTONIO, TX 78230 WHICH IS ALSO REACHABLE BY PHONE AT (210) 472-5040.

- 18. TRENCH EXCAVATION SAFETY PROTECTION: CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREAS IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES 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.

SEWER SECTION

- 23. 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 210-704-SAWS (210-704-7297). 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 TELEVISIONING 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.

- 24. THE CONTRACTOR SHALL PROVIDE BYPASS PUMPING OF SEWAGE AROUND EACH SEGMENT OF PIPE TO BE REPLACED, IN ACCORDANCE WITH SAWS STANDARD SPECIFICATION ITEM NO. 865, "BYPASS PUMPING SMALL DIAMETER SANITARY SEWER MAINS" AND STANDARD SPECIFICATION ITEM NO. 864, "BYPASS PUMPING LARGE DIAMETER SANITARY SEWER MAINS" AS APPLICABLE. PAYMENT FOR SUCH WORK WILL BE MADE UNDER THE APPROPRIATE BID ITEM ASSOCIATED WITH SANITARY SEWER BYPASS PUMPING IN ACCORDANCE WITH SAWS STANDARD SPECIFICATIONS 865 AND 864.
25. PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING FORCE MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT 210-233-3500 AND/OR SAWS PRODUCTION GROUPS AT LEAST TWO WEEKS 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.
26. 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)
27. MANHOLE REMOVAL: WHERE EXISTING MANHOLES ARE TO BE REPLACED BY THE CONTRACTOR, THE EXISTING MANHOLES SHALL BE REMOVED. (NSPI)
28. SMART MANHOLE COVERS: THE CONTRACTOR SHALL NOTIFY SAWS EOC AT 210-704-SAWS (210-233-7297) AND EITHER AMERICA ESPINOZA AT 210-233-2934 OR JOSE A. MARTINEZ AT 210-233-3071 A MINIMUM OF 72 HOURS, NOT COUNTING WEEKENDS OR SAWS HOLIDAYS, BEFORE WORKING ON THE PIPE OR MANHOLE, IN ORDER TO HAVE SAWS REMOVE THE SMART COVER. ANY DAMAGE DONE TO THE SMART COVER WILL BE CHARGED TO THE CONTRACTOR THROUGH A CHANGE ORDER.
29. FLOW METER IN MANHOLES: THE CONTRACTOR SHALL NOTIFY BOBBY JOHNSON AT 210-233-3493 OR ABEL BORUNDA AT 210-233-3704 A MINIMUM OF 72 HOURS, NOT COUNTING WEEKEND OR SAWS HOLIDAYS, BEFORE WORKING ON THE PIPE OR MANHOLE, IN ORDER TO HAVE SAWS REMOVE THE FLOW METER IN THE MANHOLE. ANY DAMAGE DONE TO THE FLOW METER WILL BE CHARGED TO THE CONTRACTOR THROUGH A CHANGE ORDER.

EXISTING IMPROVEMENTS

ALL EXISTING IMPROVEMENTS WITHIN THE PROJECT AREA, WHICH ARE NOT COVERED UNDER THE UNIT PRICE BID PROPOSAL, SHALL BE PROTECTED OR REMOVED AND REPLACED TO EXISTING CONDITION OR BETTER AT NO ADDITIONAL COST TO THE OWNER.

HAULING AND STORAGE

HAULING AND/OR TEMPORARY STORAGE OF EQUIPMENT AND MATERIALS MAY BE NECESSARY, INCLUDING EXCAVATED MATERIAL AND SPOILS. CONTRACTOR SHALL INCLUDE IN HIS BID PRICE ALL COSTS ASSOCIATED WITH HAULING AND OFF-SITE STORAGE OF ALL MATERIALS AND/OR EQUIPMENT. ALSO REFER TO THE PROJECT SPECIFICATIONS.

TREE PROTECTION NOTES

- 1. CONTRACTOR TO PROTECT ALL TREES WHEREVER POSSIBLE. DAMAGE TO TREES IDENTIFIED TO BE PROTECTED WILL BE MITIGATED AT THE CONTRACTOR'S SOLE EXPENSE.
2. PROTECT EXISTING TREES SIX INCH (6") DIAMETER AND LARGER. ALL TREES TO BE PRESERVED AS PART OF THE PROJECT SHALL BE PROTECTED AGAINST INJURY OR DAMAGE, INCLUDING CUTTING, SOIL COMPACTION, BREAKING OR SKINNING OF ROOTS, TRUNKS, OR BRANCHES DURING CONSTRUCTION OPERATIONS BY FENCING AS DESCRIBED BELOW. THE TREE PROTECTION SHALL BE PLACED BEFORE ANY EXCAVATION OR GRADING IS BEGUN AND MAINTAINED FOR THE DURATION OF THE CONSTRUCTION WORK. PROTECTION WILL ENCOMPASS THE ROOT PROTECTION ZONE WHICH WILL BE AT MINIMUM ONE FOOT (1.0') RADIUS PER INCH DIAMETER OF THE TREE TRUNK AT 4.5' ABOVE GROUND. NO MATERIAL SHALL BE STORED OR CONSTRUCTION OPERATION SHALL BE CARRIED ON WITHIN THE TREE PROTECTION FENCING, UNLESS AUTHORIZED BY THE OWNER. THE PROTECTION SHALL REMAIN UNTIL ALL WORK IS COMPLETED.

- 3. NO CONSTRUCTION ACTIVITIES SHALL BE PERFORMED WITHIN 5' FROM THE TRUNK OF A TREE THAT IS PROTECTED. TRENCH SHORING WILL BE REQUIRED INSIDE OF A ROOT PROTECTION ZONE. THE ROOT PROTECTION ZONE IS CALCULATED AS A RADIUS FROM THE TREE TRUNK EQUAL TO ONE FOOT PER DIAMETER INCH OF THE TREE.
4. THIS PROJECT IS SUBJECT TO REGULATIONS ESTABLISHED BY THE CITY OF SAN ANTONIO TREE ORDINANCE.

STORM WATER PROTECTION AND EROSION CONTROL NOTES

- 1. CONTRACTOR SHALL INSTALL STORM WATER POLLUTION PREVENTION STRUCTURES INCLUDING BUT NOT LIMITED TO, SILT FENCING AND/OR ROCK BERMS IN ALL AREA TO BE IMPACTED BY CURRENT AND ONGOING CONSTRUCTION AND MAINTAIN SUCH STRUCTURES UNTIL SUITABLE GROUND COVER/REVEGETATION IS ACCEPTED. ALL STORM WATER POLLUTION PREVENTION STRUCTURES SHALL BE CONSTRUCTED WITHIN THE WATER LINE EASEMENTS. ANY FEATURES SHOWN OUTSIDE THESE AREAS ARE SHOWN FOR VISUAL CLARITY ONLY.
2. THE LOCATION OF ANY BEST MANAGEMENT PRACTICES (B.M.P.'S) SUCH AS SILT FENCING, ROCK BERMS, STABILIZED CONSTRUCTION ENTRANCE/EXIT, ETC. THAT MAY BE SHOWN ON THESE PLANS ARE SUBJECT TO FIELD VERIFICATION. CONTRACTOR SHALL ADJUST THE LOCATIONS OF B.M.P.'S TO BEST ACCOMMODATE THE CONDITIONS AND TOPOGRAPHY ENCOUNTERED DURING CONSTRUCTION. QUESTIONS REGARDING THE PLACEMENT AND/OR CHANGES CONCERNING B.M.P.'S SHALL BE REFERRED TO THE OWNER AND THE COUNTY. THE CONTRACTOR IS TO ENSURE THAT SEDIMENTATION AND EROSION WILL BE CONTAINED WITHIN THE PROJECT WORK AREAS AND KEPT OFF ROADWAYS AND ADJACENT PROPERTIES AND OUT OF DRAINAGE CHANNELS AND WATER COURSES.

CPS ENERGY NOTES

- 1. CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING UNDER "HIGH VOLTAGE TRANSMISSION LINES". A WORKING HEIGHT OF 30' FROM GROUND ELEVATION WILL BE OBSERVED WHEN WORKING UNDER THE HIGH VOLTAGE LINE. COORDINATE ALL WORK WITH CPS ENERGY.

BEXAR COUNTY FLOODPLAIN GENERAL CONSTRUCTION NOTE

- 1. NO CONSTRUCTION AND/OR WASTE MATERIAL SHALL BE PLACED IN EXISTING LOWS THAT WILL BLOCK OR ALTER FLOW LIMITS OF EXISTING NATURAL DRAINAGE OR PLACED WITHIN THE LIMITS OF EXISTING FLOODPLAIN.

TXDOT GENERAL CONSTRUCTION NOTES

- 1. WITHIN TXDOT ROW, THE CONTRACTOR SHALL ADHERE TO THE TXDOT UTILITY PERMIT AND SPECIAL CONDITIONS.
2. ANY DAMAGE TO EXISTING IMPROVEMENTS WITHIN THE TXDOT ROW CAUSED BY THE CONTRACTOR SHALL BE REPLACED TO ORIGINAL OR BETTER CONDITION (AT NO ADDITIONAL COST TO SAWS OR TXDOT) PER TXDOT SPECIFICATIONS.

OVERALL QUANTITY TABLE
ITEM NO | ITEM DESCRIPTION | UNIT | QUANTITY
507 | 16" WIDE GATE | EA | 2
507.1 | TEMPORARY CONSTRUCTION FENCE (4 FEET HIGH) | LF | 1240
508.1 | REMOVE AND REPLACE CHAIN LINK WIRE FENCE | LF | 210
530.1 | BARRICADES, SIGNS AND TRAFFIC HANDLING (COSA SPEC) | LS | 1
540 | SWPPP | LS | 1
550 | TRENCH EXCAVATION PROTECTION | LF | 8,269
852 | SWEEPING 90 DEGREE FRP TEE BASE MANHOLE, MITER, WITH WATERTIGHT RING AND COVER | EA | 1
852 | SWEEPING 90 DEGREE FRP TEE BASE DROP MANHOLE, MITER, WITH WATERTIGHT RING AND COVER | EA | 1
852 | VENTED SWEEPING 90 DEGREE FRP TEE BASE MANHOLE, MITER, WITH WATERTIGHT RING AND COVER | EA | 1
852 | VENTED FRP TEE BASE MANHOLE, MITER, WITH WATERTIGHT RING AND COVER | EA | 5
852 | VENTED FRP TEE BASE MANHOLE WITH WATERTIGHT RING AND COVER | EA | 1
852 | FRP TEE BASE MANHOLE, MITER, WITH WATERTIGHT RING AND COVER | EA | 9
852 | FRP TEE BASE DROP MANHOLE, MITER, WITH WATERTIGHT RING AND COVER | EA | 1
852 | FRP TEE BASE MANHOLE WITH WATERTIGHT RING AND COVER | EA | 3
856 | 48" STEEL CASING | LF | 1016
856.1 | 48" JACK AND BORE TUNNELING | LF | 1016
857 | 30" FRP SANITARY SEWER MAIN (OPEN CUT) (10'-15' DEPTH) | LF | 2,806
857 | 30" FRP SANITARY SEWER MAIN (OPEN CUT) (15'-20' DEPTH) | LF | 4,184
857 | 30" FRP SANITARY SEWER MAIN (OPEN CUT) (20'-25' DEPTH) | LF | 1,279
857 | 30" FRP SANITARY SEWER MAIN (CARRIER PIPE) | LF | 1016
866 | SEWER MAIN TV INSPECTION, POST (ALL SIZES) | LS | 9,285
SC-7 | REVEGETATION (DRILL SEEDING WITH NATIVE MIXTURE & HYDROMULCH) | SY | 65,721
100 | MOBILIZATION (MAX 10% OF ITEMS 1-22) | LS | 1
101 | PREPARATION OF RIGHT-OF-WAY (MAX 5% OF ITEMS 1-22) | LS | 1
102 | INTERMEDIATE REMOBILIZATION AND DEMOBILIZATION | EA | 1

SEWER: SOUTH WATERSHED - DOS RIOS W.R.C.
STONEHILL OFF-SITE SEWER EXTENSION - PHASE 1

Developer's Name: DR HORTON
Address: 211 NORTH LOOP 1604, SUITE 130
City: SAN ANTONIO State: TEXAS ZIP: 78232
Phone #: (210) 496-2668 FAX: N/A
SAWS Block Map #: 066558,066560,066556,066558,070554,070556 Total Acreage: 8.19
Total Linear Footage of Pipe: 9,285 LF ~ 30" FRP SEWER Plat No.: N/A
Number of Lots: N/A TOTAL EDU'S: N/A SAWS JOB NO.: 23-4518

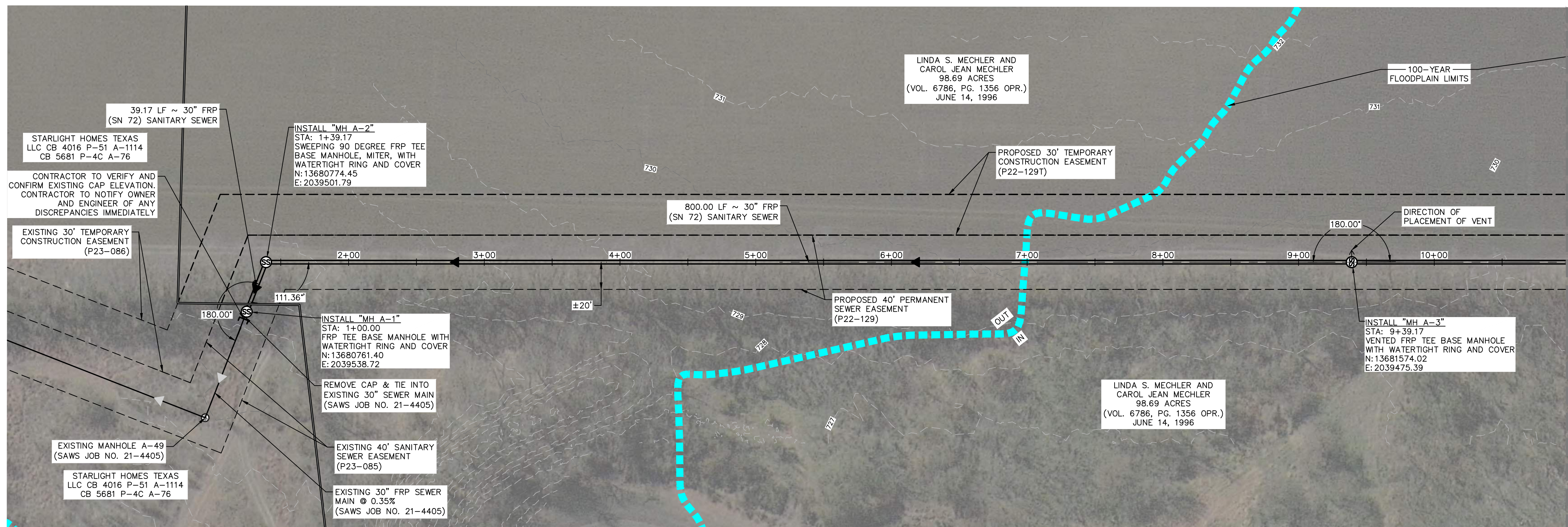
DATE 10/19/23
NO. REVISION APPENDIX 1



PAPE-PAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008880

STONEHILL OFF-SITE SEWER EXTENSION PHASE I
BEXAR COUNTY, TEXAS
GENERAL NOTES AND QUANTITIES

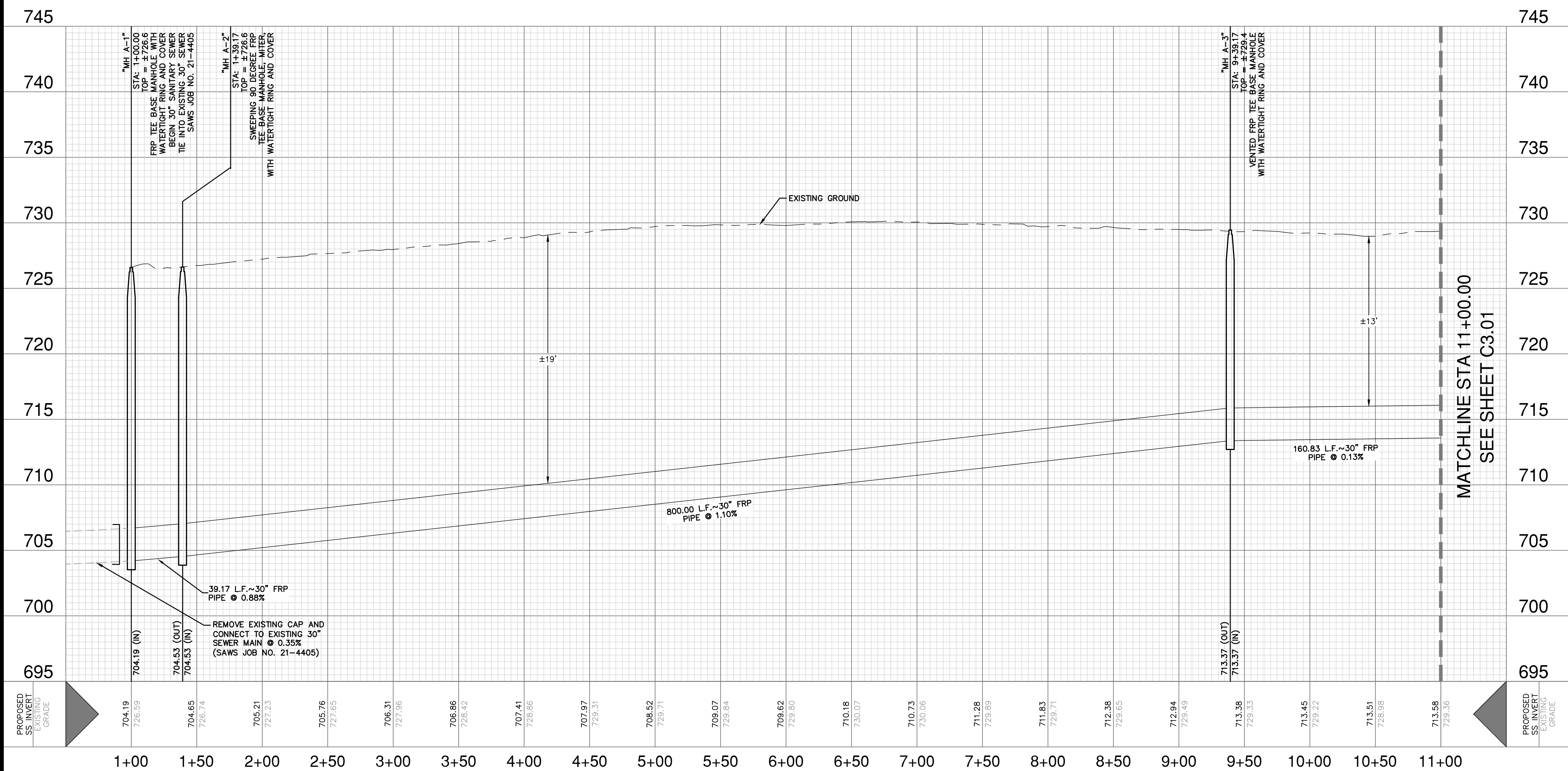
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JOB NO. 12747-02
DATE SEPTEMBER 2023
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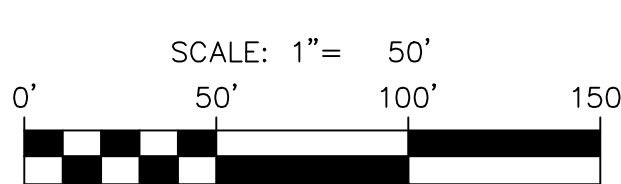
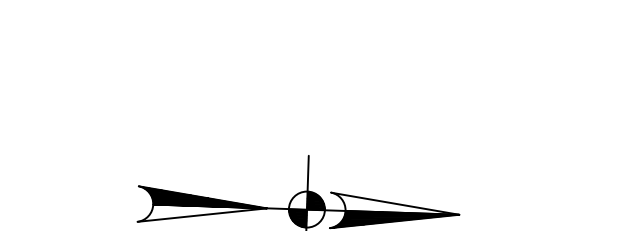
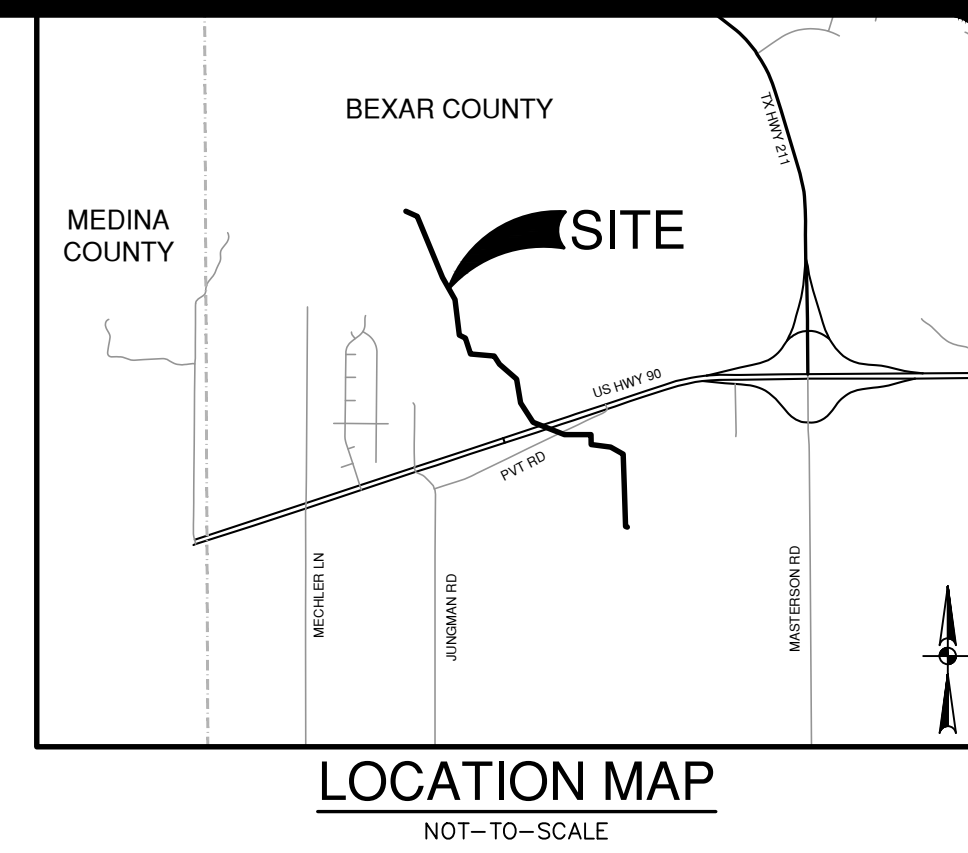
MATCHLINE STA 11+00.00
SEE SHEET C3.01

30" SANITARY SEWER
STA. 1+00.00 TO STA. 11+00.00

VERTICAL SCALE: 1" = 50'
HORIZONTAL SCALE: 1" = 10'



MATCHLINE STA 11+00.00
SEE SHEET C3.01



QUANTITY TABLE			
ITEM	DESCRIPTION	UNIT	QTY
550	TRENCH EXCAVATION PROTECTION	LF	1000
852	SWEEPING 90 DEGREE FRP TEE BASE MANHOLE, MITER, WITH WATERTIGHT RING AND COVER	EA	1
852	VENTED FRP TEE BASE MANHOLE WITH WATERTIGHT RING AND COVER	EA	1
852	FRP TEE BASE MANHOLE WITH WATERTIGHT RING AND COVER	EA	1
857	30" FRP SANITARY SEWER MAIN (OPEN CUT) (15'-20' DEPTH)	LF	250
857	30" FRP SANITARY SEWER MAIN (OPEN CUT) (20'-25' DEPTH)	LF	750
866	SEWER MAIN TV INSPECTION, POST (ALL SIZES)	LF	1000

- LEGEND**
- EXISTING SANITARY SEWER
 - PERMANENT SEWER EASEMENT
 - TEMPORARY CONSTRUCTION EASEMENT
 - PARCEL BOUNDARY
 - EXISTING MINOR CONTOUR
 - EXISTING MAJOR CONTOUR
 - CONCRETE ENCASUREMENT
 - STEEL CASING
 - 100 YR FLOODPLAIN LIMITS
 - AQUATIC FEATURE
 - TEMPORARY CONSTRUCTION FENCE

CAUTION UNDERGROUND UTILITIES

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, TELEPHONE, AND FIBER OPTIC LINES; SITE LIGHTING, ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL, DUCT BANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. THE CONTRACTOR MUST CONTACT 1-800-DIG-TESS AND CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION AND/OR START OF CONSTRUCTION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES (WHETHER SHOWN ON PLANS OR NOT) WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGNER/ 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.

SEWER: SOUTH WATERSHED - DOS RIOS W.R.C.
STONEHILL OFF-SITE SEWER EXTENSION - PHASE 1

Developer's Name: DR HORTON
Address: 211 NORTH LOOP 1604, SUITE 130
City: SAN ANTONIO State: TEXAS ZIP: 78232
Phone# (210) 498-2668 FAX# N/A
SAWS Block Map# 066558,066560,066556,066558,070554,070556 Total Acreage 8.19
Total Linear Footage of Pipe 9,285 LF ~ 30" FRP SEWER Plat No. N/A
Number of Lots N/A TOTAL EDU'S N/A SAWS JOB NO. 23-4518

DATE	10/19/23
NO.	1
REVISION	APPENDUM 1

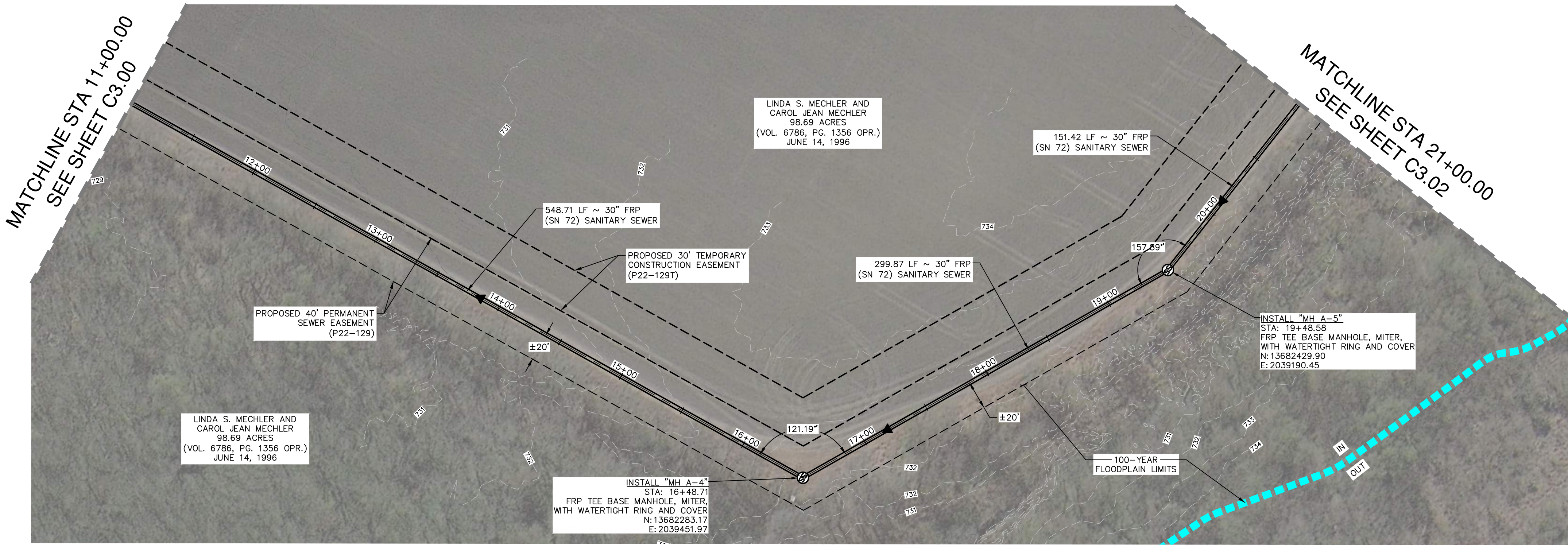


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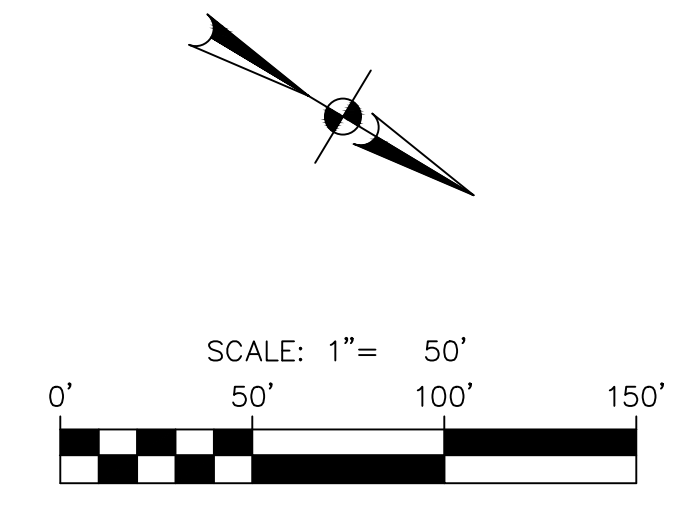
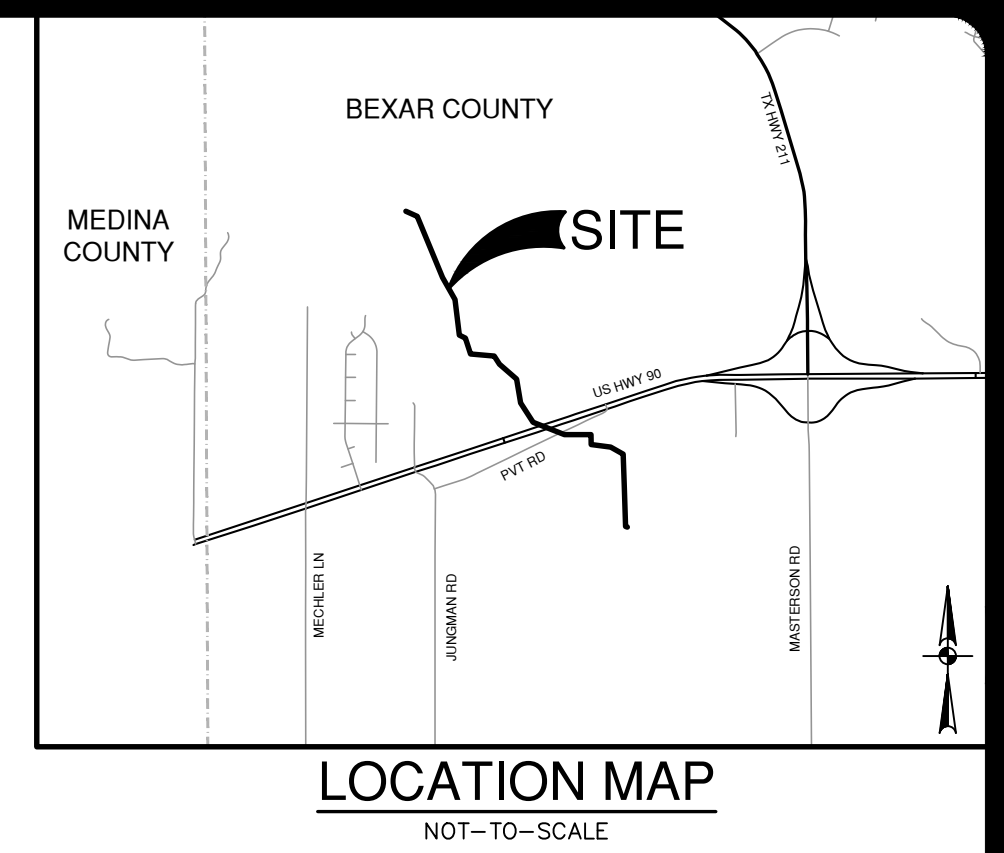
STONEHILL OFF-SITE SEWER EXTENSION PHASE I
BEXAR COUNTY, TEXAS
SANITARY SEWER LINE PLAN AND PROFILE
STA. 1+00.00 TO 11+00.00

PLAT NO.	
JOB NO.	12747-02
DATE	SEPTEMBER 2023
DESIGNER	CD
CHECKED	MP_DRAWN_RJ
SHEET	C3.00

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30" SANITARY SEWER
STA. 11+00.00 TO STA. 21+00.00
 VERTICAL SCALE: 1" = 50'
 HORIZONTAL SCALE: 1" = 10'



QUANTITY TABLE			
ITEM	DESCRIPTION	UNIT	QTY
550	TRENCH EXCAVATION PROTECTION	LF	1000
852	FRP TEE BASE MANHOLE, MITER, WITH WATERTIGHT RING AND COVER	EA	2
857	30" FRP SANITARY SEWER MAIN (OPEN CUT) (10'-15' DEPTH)	LF	682
857	30" FRP SANITARY SEWER MAIN (OPEN CUT) (15'-20' DEPTH)	LF	318
866	SEWER MAIN TV INSPECTION, POST (ALL SIZES)	LF	1000

- LEGEND**
- EXISTING SANITARY SEWER
 - PERMANENT SEWER EASEMENT
 - TEMPORARY CONSTRUCTION EASEMENT
 - PARCEL BOUNDARY
 - EXISTING MINOR CONTOUR
 - EXISTING MAJOR CONTOUR
 - CONCRETE ENCASUREMENT
 - STEEL CASING
 - 100 YR FLOODPLAIN LIMITS
 - AQUATIC FEATURE
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CAUTION UNDERGROUND UTILITIES

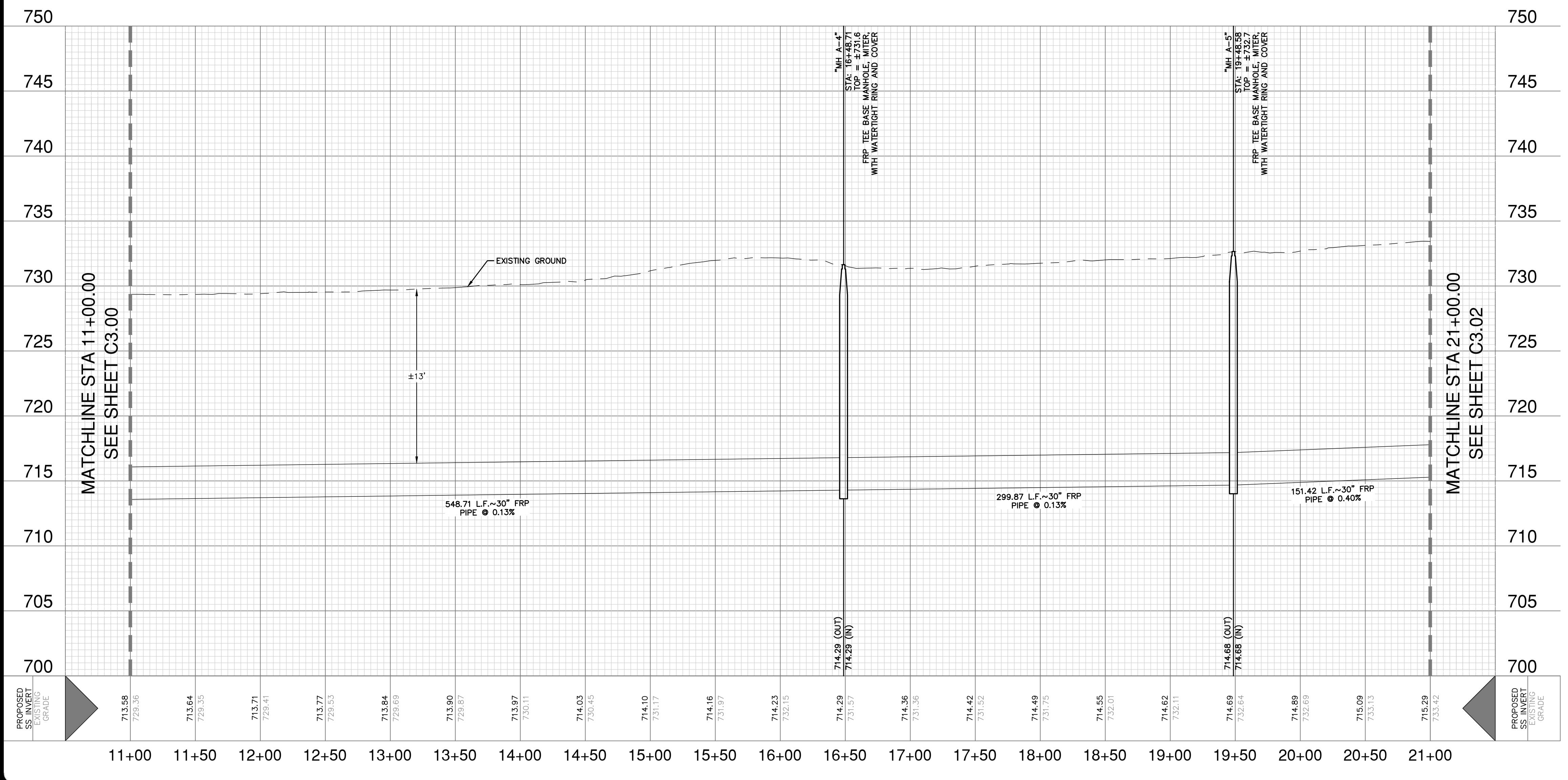
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, TELEPHONE, AND FIBER OPTIC LINES; SITE LIGHTING, ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL, DUCT BANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. THE CONTRACTOR MUST CONTACT 1-800-DIG-TESS AND CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION AND/OR START OF CONSTRUCTION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES (WHETHER SHOWN ON PLANS OR NOT) WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY 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.

SEWER: SOUTH WATERSHED - DOS RIOS W.R.C.
STONEHILL OFF-SITE SEWER EXTENSION - PHASE 1

Developer's Name: DR HORTON
 Address: 211 NORTH LOOP 1604, SUITE 130
 City: SAN ANTONIO State: TEXAS ZIP: 78232
 Phone: (210) 498-2668 FAX: N/A
 SAWS Block Map #: 066558, 066558, 066558, 070554, 070556 Total Acreage: 8.19
 Total Linear Footage of Pipe: 9,285 LF ~ 30" FRP SEWER Plat No.: N/A
 Number of Lots: N/A TOTAL EDU'S: N/A SAWS JOB NO.: 23-4518



Date: Oct 19, 2023, 4:35pm User: JD: eddy
 File: P:\2747\2023\Design\Chil\SSWP-224702.dwg

DATE: 10/19/23
 NO. REVISION: 1
 APPENDIX: 1

10/19/2023

PAPE-PAWSON ENGINEERS

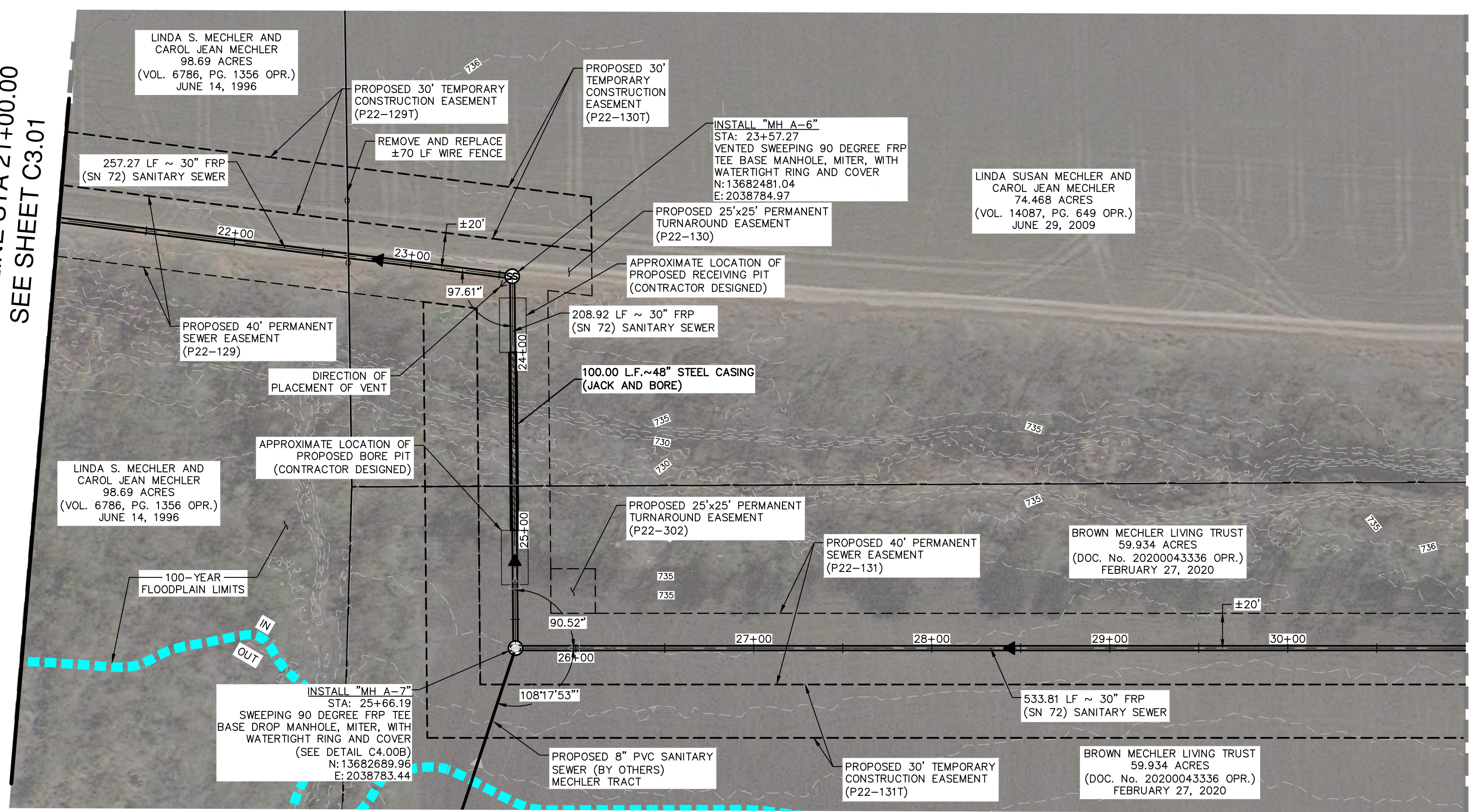
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
 TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10088800

STONEHILL OFF-SITE SEWER EXTENSION PHASE I
 BEXAR COUNTY, TEXAS

SANITARY SEWER LINE PLAN AND PROFILE
 STA. 11+00.00 TO 21+00.00

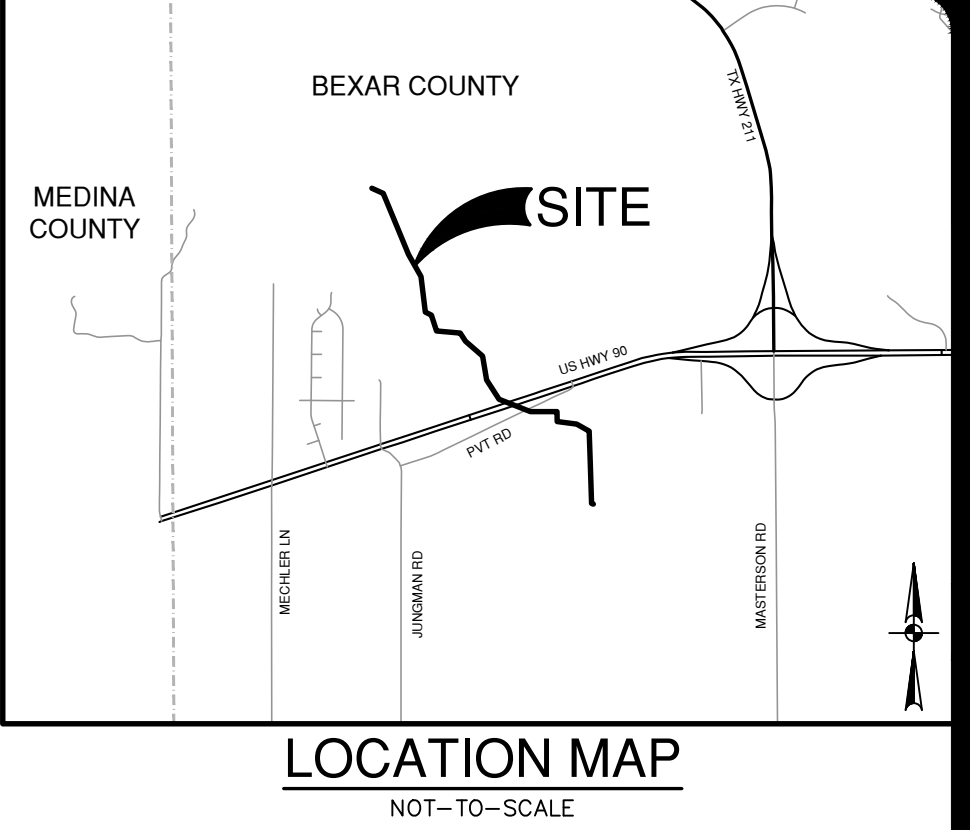
PLAT NO.:
 JOB NO.: 12747-02
 DATE: SEPTEMBER 2023
 DESIGNER: CD
 CHECKED: MP DRAWN: RJ
 SHEET: C3.01

MATCHLINE STA 21+00.00
SEE SHEET C3.01

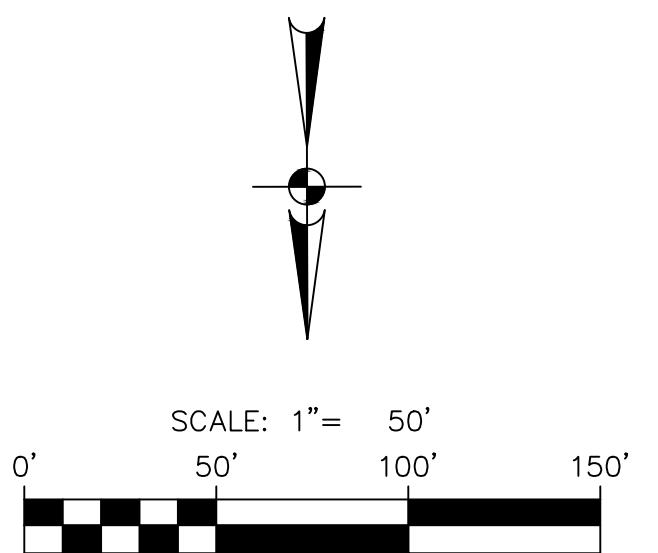


30" SANITARY SEWER
STA. 21+00.00 TO STA. 31+00.00

CONTRACTOR NOTE
CONTRACTOR MAY NOT CROSS LOW POINT WITH CONSTRUCTION TRAFFIC. REFER TO SHEET C2.01.



LOCATION MAP
NOT-TO-SCALE



QUANTITY TABLE			
ITEM	DESCRIPTION	UNIT	QTY
507.1	REMOVE AND REPLACE CHAIN LINK WIRE FENCE	LF	70
550	TRENCH EXCAVATION PROTECTION	LF	900
852	SWEEPING 90 DEGREE FRP TEE BASE DROP MANHOLE, MITER, WITH WATERTIGHT RING AND COVER	EA	1
852	VENTED SWEEPING 90 DEGREE FRP TEE BASE MANHOLE, MITER, WITH WATERTIGHT RING AND COVER	EA	1
856	48" STEEL CASING	LF	100
856.1	48" JACK AND BORE TUNNELING	LF	100
857	30" FRP SANITARY SEWER MAIN (OPEN CUT) (10'-15' DEPTH)	LF	43
857	30" FRP SANITARY SEWER MAIN (OPEN CUT) (15'-20' DEPTH)	LF	857
857	30" FRP SANITARY SEWER MAIN (CARRIER PIPE)	LF	100
866	SEWER MAIN TV INSPECTION, POST (ALL SIZES)	LF	1000

LEGEND

- EXISTING SANITARY SEWER
- PERMANENT SEWER EASEMENT
- TEMPORARY CONSTRUCTION EASEMENT
- PARCEL BOUNDARY
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- CONCRETE ENCASEMENT
- STEEL CASING
- 100 YR FLOODPLAIN LIMITS
- AQUATIC FEATURE
- TEMPORARY CONSTRUCTION FENCE

CAUTION UNDERGROUND UTILITIES

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, TELEPHONE, AND FIBER OPTIC LINES; SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCT BANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. THE CONTRACTOR MUST CONTACT 1-800-DIG-TESS AND CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION AND/OR START OF CONSTRUCTION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES (WHETHER SHOWN ON PLANS OR NOT) WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

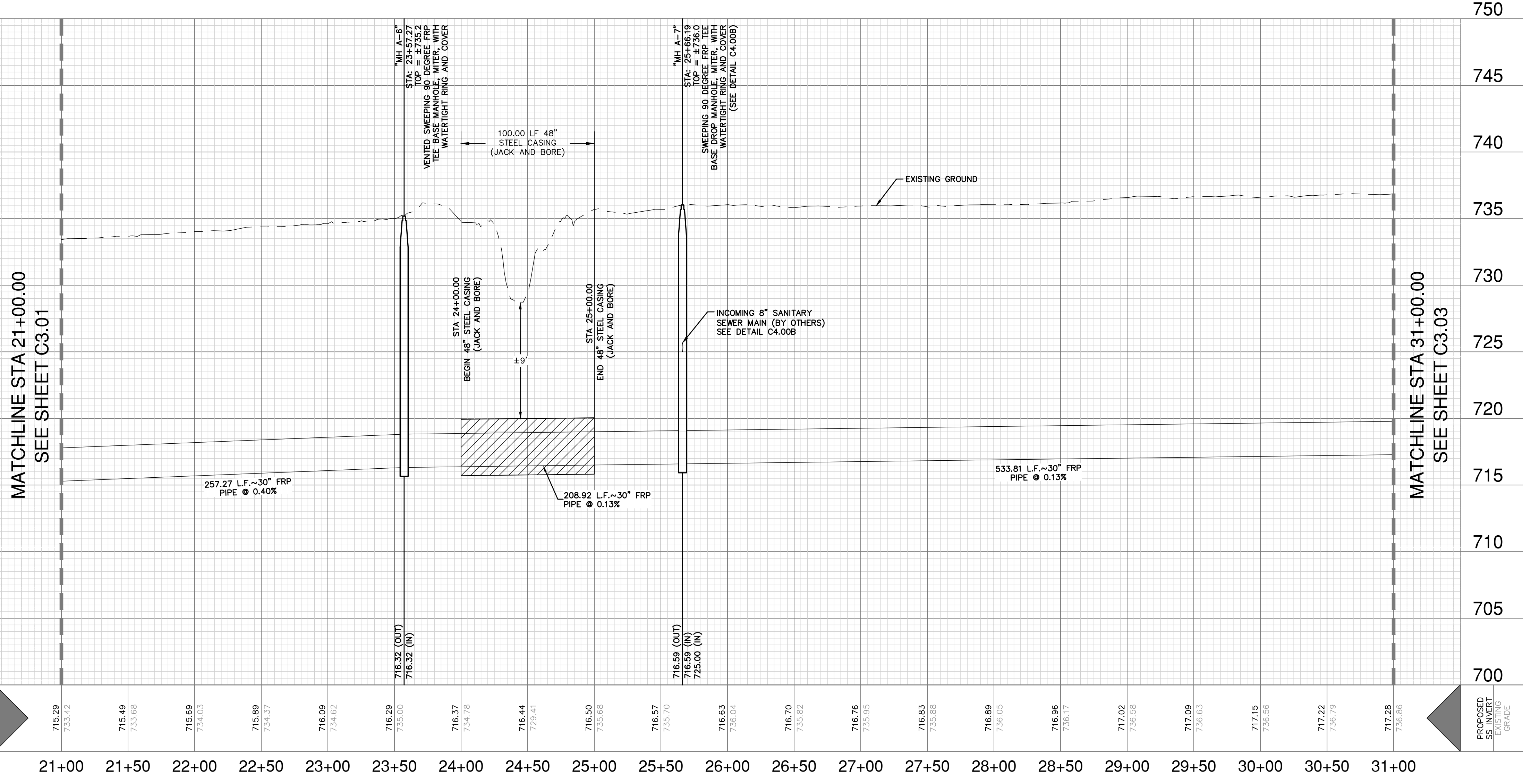
TRENCH EXCAVATION SAFETY PROTECTION

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SEWER: SOUTH WATERSHED - DOS RIOS W.R.C.

STONEHILL OFF-SITE SEWER EXTENSION - PHASE 1

Developer's Name: DR HORTON
Address: 211 NORTH LOOP 1604, SUITE 130
City: SAN ANTONIO State: TEXAS ZIP: 78232
Phone: (210) 496-2668 FAX: N/A
SAWS Block Map# 066558,066560,066556,066558,070554,070556 Total Acreage 8.19
Total Linear Footage of Pipe 9,285 LF ~ 30" FRP SEWER Plat No. N/A
Number of Lots N/A TOTAL EDU'S N/A SAWS JOB NO. 23-4518



MATCHLINE STA 21+00.00
SEE SHEET C3.01

MATCHLINE STA 31+00.00
SEE SHEET C3.03

VERTICAL SCALE: 1" = 50'
HORIZONTAL SCALE: 1" = 10'

DATE: 10/19/23

NO. REVISION: 1

APPENDIX: 1

10/19/2023

JASON T. DIAMOND
LICENSED PROFESSIONAL ENGINEER
10/19/2023

PAPE-PAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008860

STONEHILL OFF-SITE SEWER EXTENSION PHASE I
BEXAR COUNTY, TEXAS

SANITARY SEWER LINE PLAN AND PROFILE
STA. 21+00.00 TO 31+00.00

PLAT NO. 12747-02

JOB NO. SEPTEMBER 2023

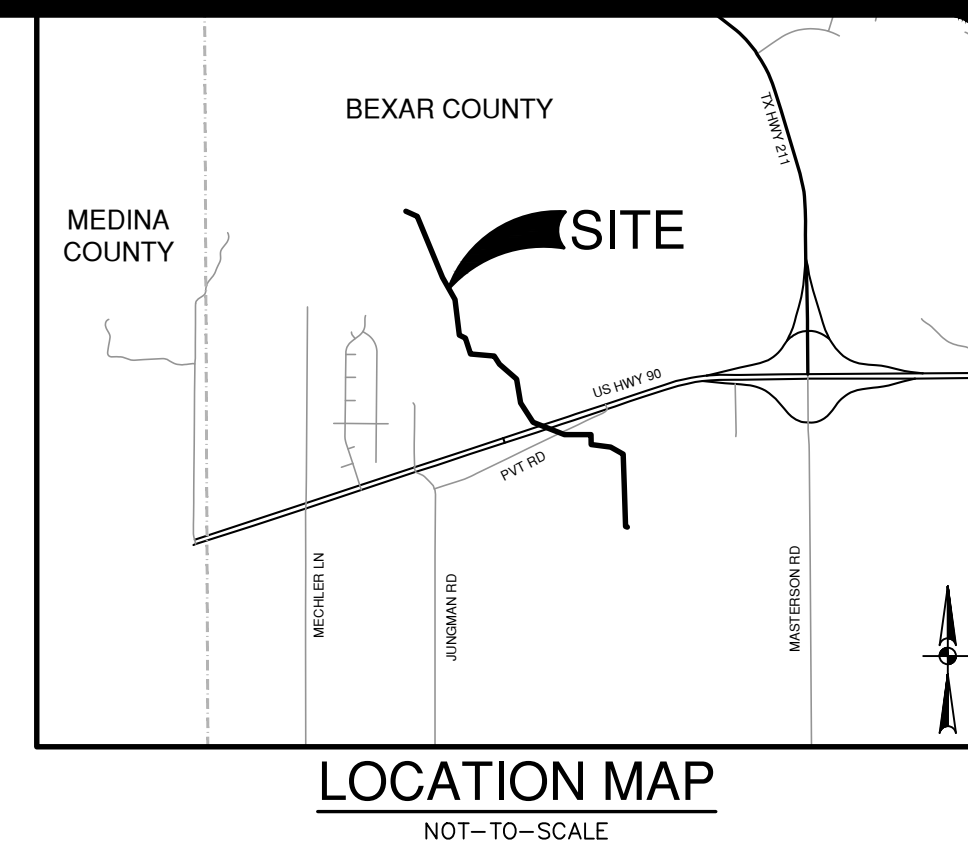
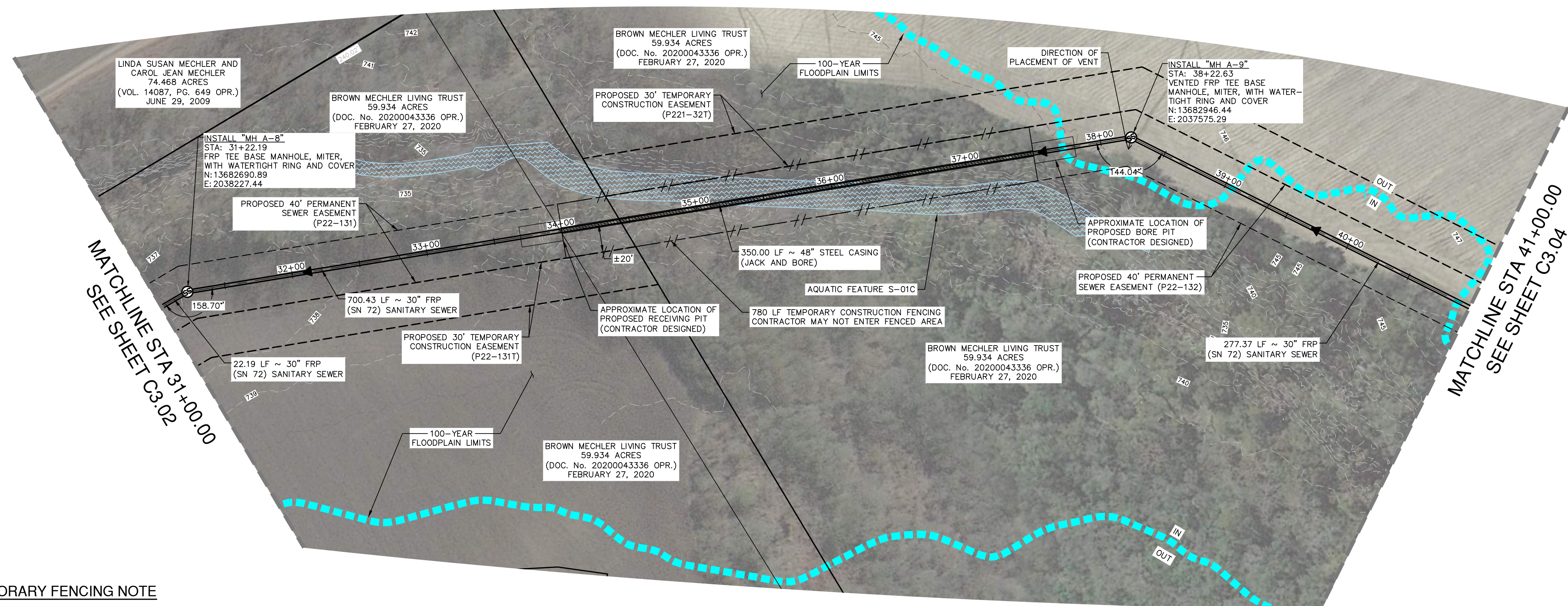
DESIGNER: CD

CHECKED: MP DRAWN: RJ

SHEET: C3.02

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DATE: 10/19/23
 REVISION: 1
 NO. 1
 APPENDIX 1

STATE OF TEXAS
 JASON T. DIAMOND
 96532
 LICENSED PROFESSIONAL ENGINEER
 10/19/2023

TEMPORARY FENCING NOTE

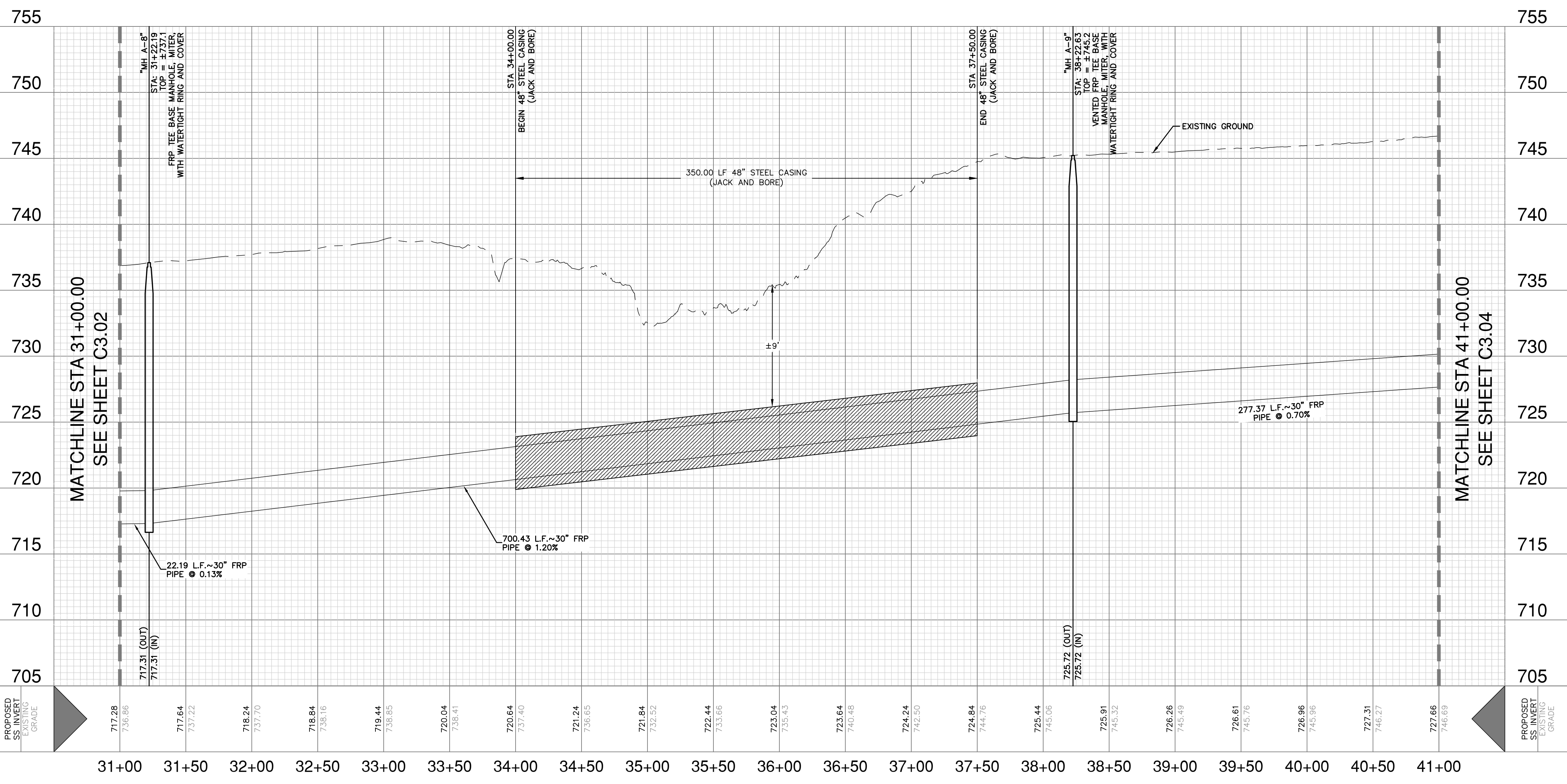
CONTRACTOR SHALL INSTALL ORANGE PLASTIC CONSTRUCTION FENCING (APPROXIMATELY 4' TALL) ALONG BOUNDARY SHOWN ON PLAN VIEW OF FORESTED WETLANDS. CONTRACTOR SHALL NOT DISTURB FENCED AREA.

**30" SANITARY SEWER
 STA. 31+00.00 TO STA. 41+00.00**

VERTICAL SCALE: 1" = 50'
 HORIZONTAL SCALE: 1" = 10'

QUANTITY TABLE

ITEM	DESCRIPTION	UNIT	QTY
507.1	TEMPORARY CONSTRUCTION FENCE (4 FEET HIGH)	LF	780
550	TRENCH EXCAVATION PROTECTION	LF	650
852	FRP TEE BASE MANHOLE, MITER, WITH WATERTIGHT RING AND COVER	EA	1
852	VENTED FRP TEE BASE MANHOLE, MITER, WITH WATERTIGHT RING AND COVER	EA	1
856	48" STEEL CASING	LF	350
856.1	48" JACK AND BORE TUNNELING	LF	350
857	30" FRP SANITARY SEWER MAIN (OPEN CUT) (15'-20' DEPTH)	LF	650
857	30" FRP SANITARY SEWER MAIN (CARRIER PIPE)	LF	350
866	SEWER MAIN TV INSPECTION, POST (ALL SIZES)	LF	1000



LEGEND

- EXISTING SANITARY SEWER
- PERMANENT SEWER EASEMENT
- TEMPORARY CONSTRUCTION EASEMENT
- PARCEL BOUNDARY
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- CONCRETE ENCASEMENT
- STEEL CASING
- 100 YR FLOODPLAIN LIMITS
- AQUATIC FEATURE
- TEMPORARY CONSTRUCTION FENCE

CAUTION UNDERGROUND UTILITIES

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TRENCH EXCAVATION SAFETY PROTECTION

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**SEWER: SOUTH WATERSHED - DOS RIOS W.R.C.
 STONEHILL OFF-SITE SEWER EXTENSION - PHASE 1**

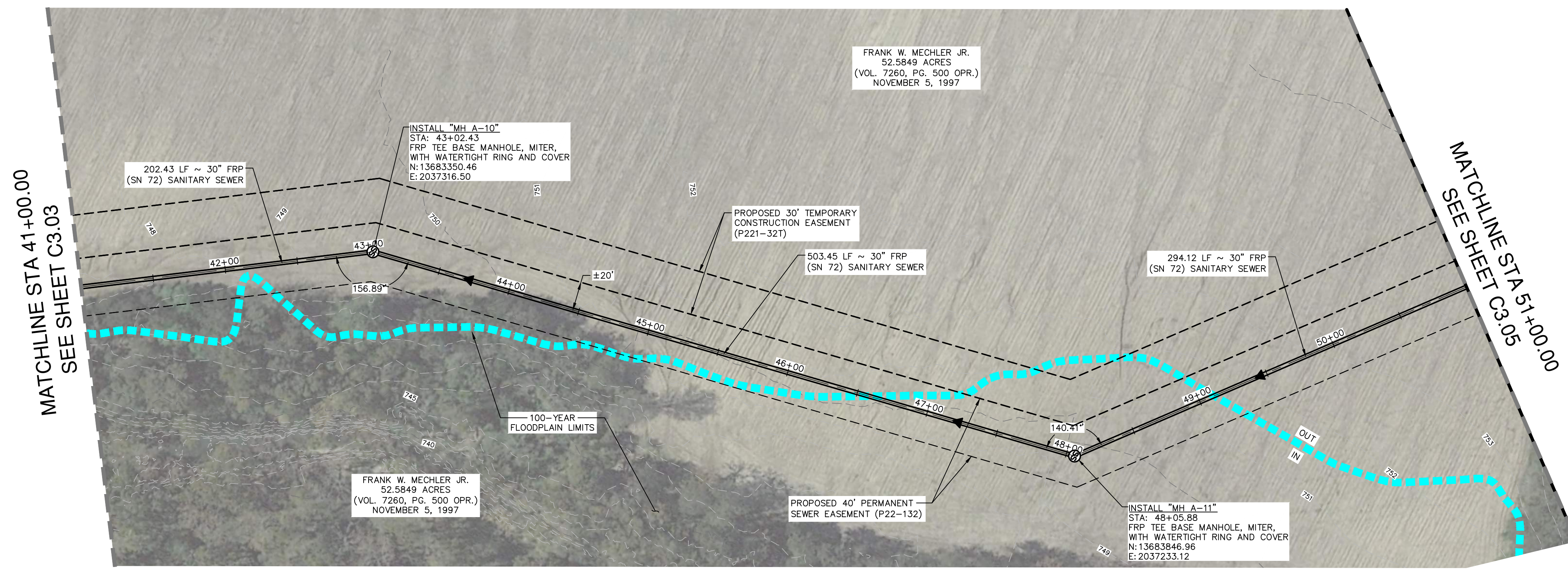
Developer's Name: DR HORTON
 Address: 211 NORTH LOOP 1604, SUITE 130
 City: SAN ANTONIO State: TEXAS Zip: 78232
 Phone: (210) 498-2658 FAX: N/A
 SAWS Block Map #: 066558, 066558, 066558, 070554, 070556 Total Acreage: 8.19
 Total Linear Footage of Pipe: 9,285 LF ~ 30" FRP SEWER Plat No.: N/A
 Number of Lots: N/A TOTAL EDU'S: N/A SAWS JOB NO.: 23-4518

STONEHILL OFF-SITE SEWER EXTENSION PHASE I
 BEXAR COUNTY, TEXAS

SANITARY SEWER LINE PLAN AND PROFILE
 STA. 31+00.00 TO 41+00.00

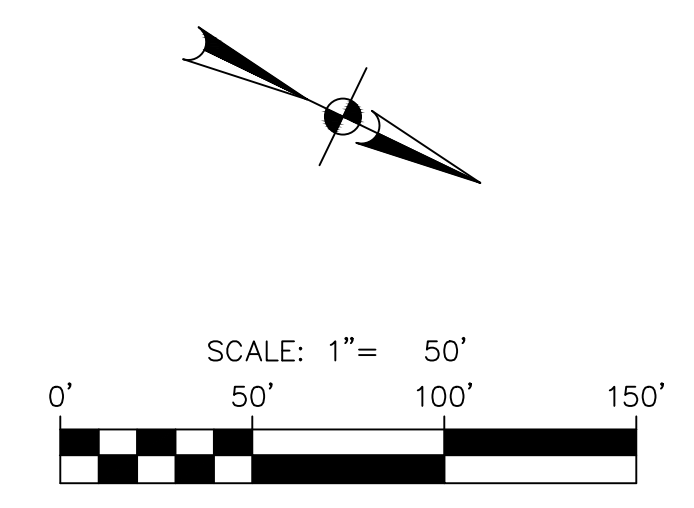
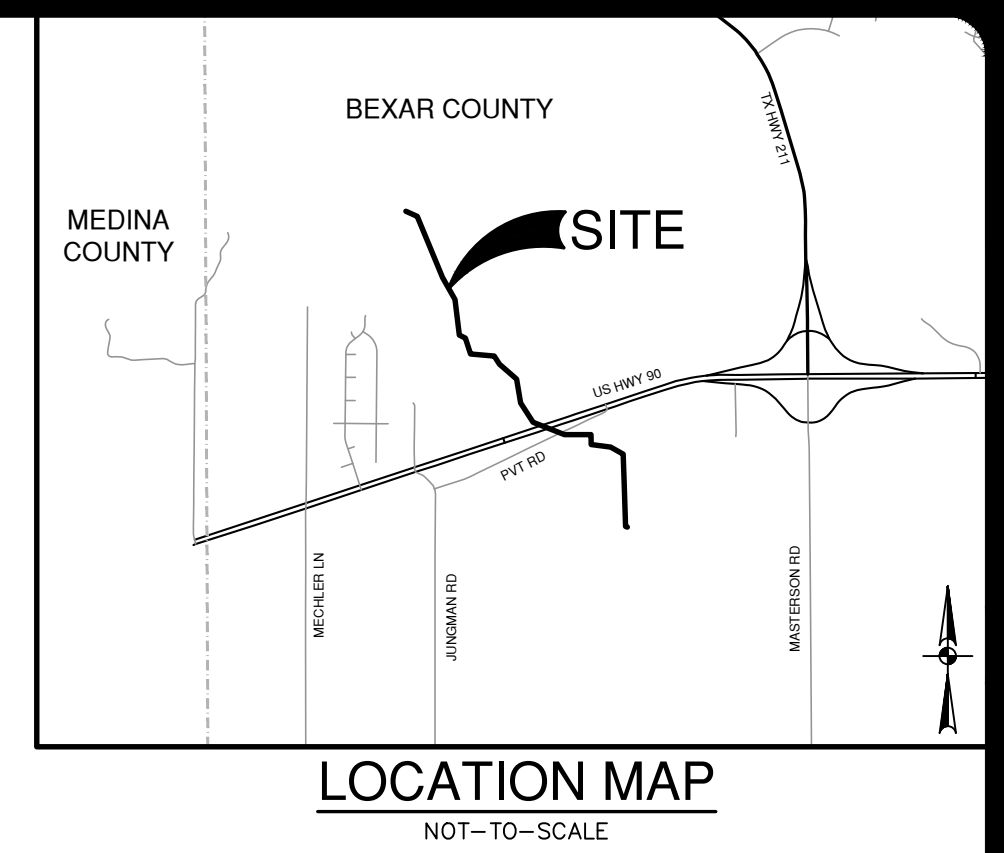
PLAT NO.:
 JOB NO.: 12747-02
 DATE: SEPTEMBER 2023
 DESIGNER: CD
 CHECKED: MP DRAWN: RJ
 SHEET: C3.03

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30" SANITARY SEWER
STA. 41+00.00 TO STA. 51+00.00

VERTICAL SCALE: 1" = 50'
HORIZONTAL SCALE: 1" = 10'



QUANTITY TABLE			
ITEM	DESCRIPTION	UNIT	QTY
550	TRENCH EXCAVATION PROTECTION	LF	1000
852	FRP TEE BASE MANHOLE, MITER, WITH WATERTIGHT RING AND COVER	EA	2
857	30" FRP SANITARY SEWER MAIN (OPEN CUT) (10'-15' DEPTH)	LF	94
857	30" FRP SANITARY SEWER MAIN (OPEN CUT) (15'-20' DEPTH)	LF	906
866	SEWER MAIN TV INSPECTION, POST (ALL SIZES)	LF	1000

LEGEND

- EXISTING SANITARY SEWER
- PERMANENT SEWER EASEMENT
- TEMPORARY CONSTRUCTION EASEMENT
- PARCEL BOUNDARY
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- CONCRETE ENCASUREMENT
- STEEL CASING
- 100 YR FLOODPLAIN LIMITS
- AQUATIC FEATURE
- TEMPORARY CONSTRUCTION FENCE

CAUTION UNDERGROUND UTILITIES

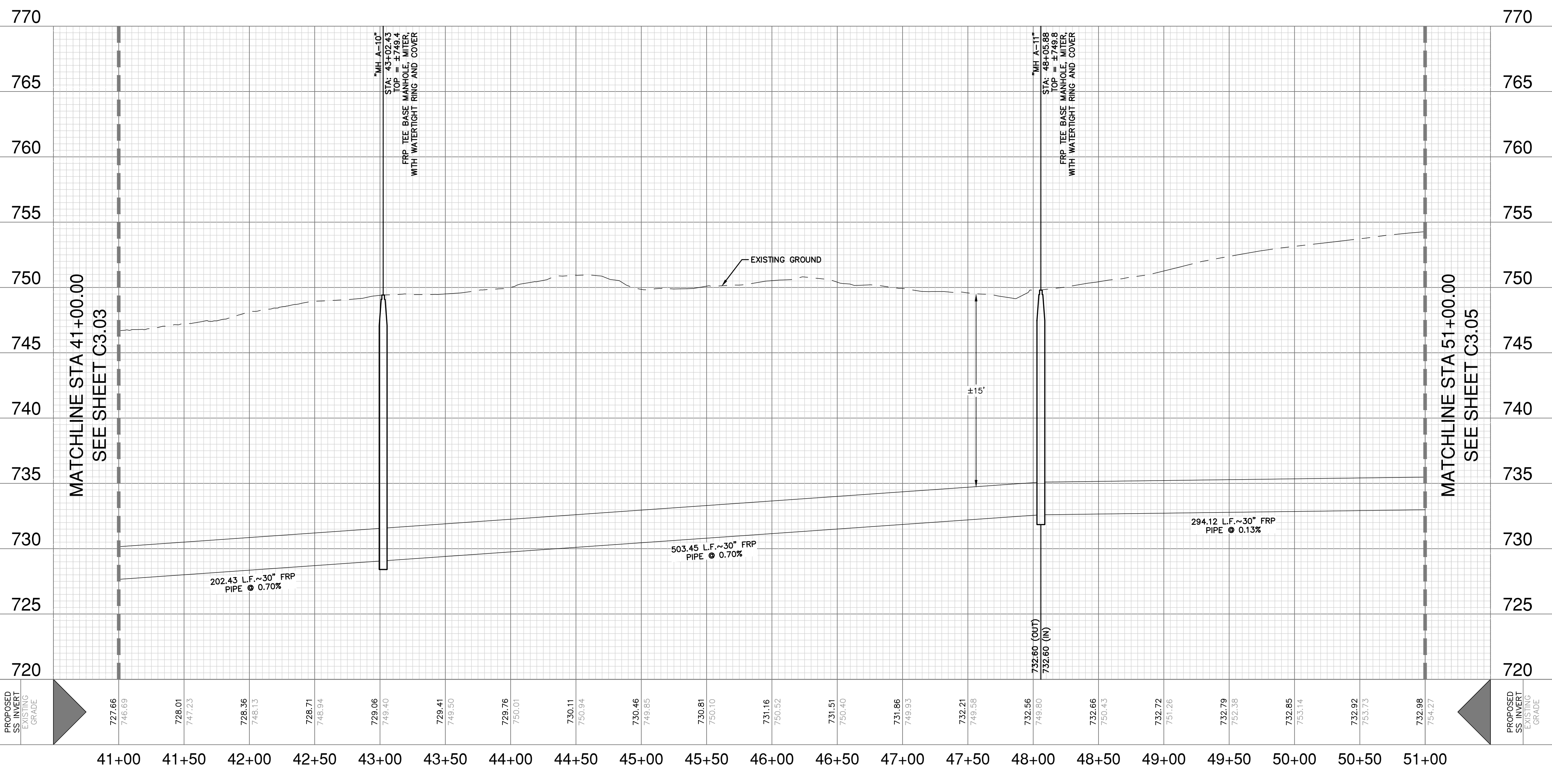
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, TELEPHONE, AND FIBER OPTIC LINES, SITE LIGHTING, ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCT BANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. THE CONTRACTOR MUST CONTACT 1-800-DIG-TESS AND CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION AND/OR START OF CONSTRUCTION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES (WHETHER SHOWN ON PLANS OR NOT) WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

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SEWER: SOUTH WATERSHED - DOS RIOS W.R.C.
STONEHILL OFF-SITE SEWER EXTENSION - PHASE 1

Developer's Name: DR HORTON
Address: 211 NORTH LOOP 1604, SUITE 130
City: SAN ANTONIO State: TEXAS ZIP: 78232
Phone# (210) 498-2668 FAX# N/A
SAWS Block Map# 066558,066560,066556,066558,070554,070556 Total Acreage 8.19
Total Linear Footage of Pipe 9,285 LF ~ 30" FRP SEWER Plat No. N/A
Number of Lots N/A TOTAL EDU'S N/A SAWS JOB NO. 23-4518



Notes: Oct 19, 2023, 4:35pm User: JD, eddy, File: P:\12747\02_Stonehill\Ch3\SSP-2247202.dwg

DATE: 10/19/23

NO. REVISION: 1

APPENDIX: 1



PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008890

STONEHILL OFF-SITE SEWER EXTENSION PHASE I
BEXAR COUNTY, TEXAS
SANITARY SEWER LINE PLAN AND PROFILE
STA. 41+00.00 TO 51+00.00

PLAT NO. _____

JOB NO. 12747-02

DATE SEPTEMBER 2023

DESIGNER CD

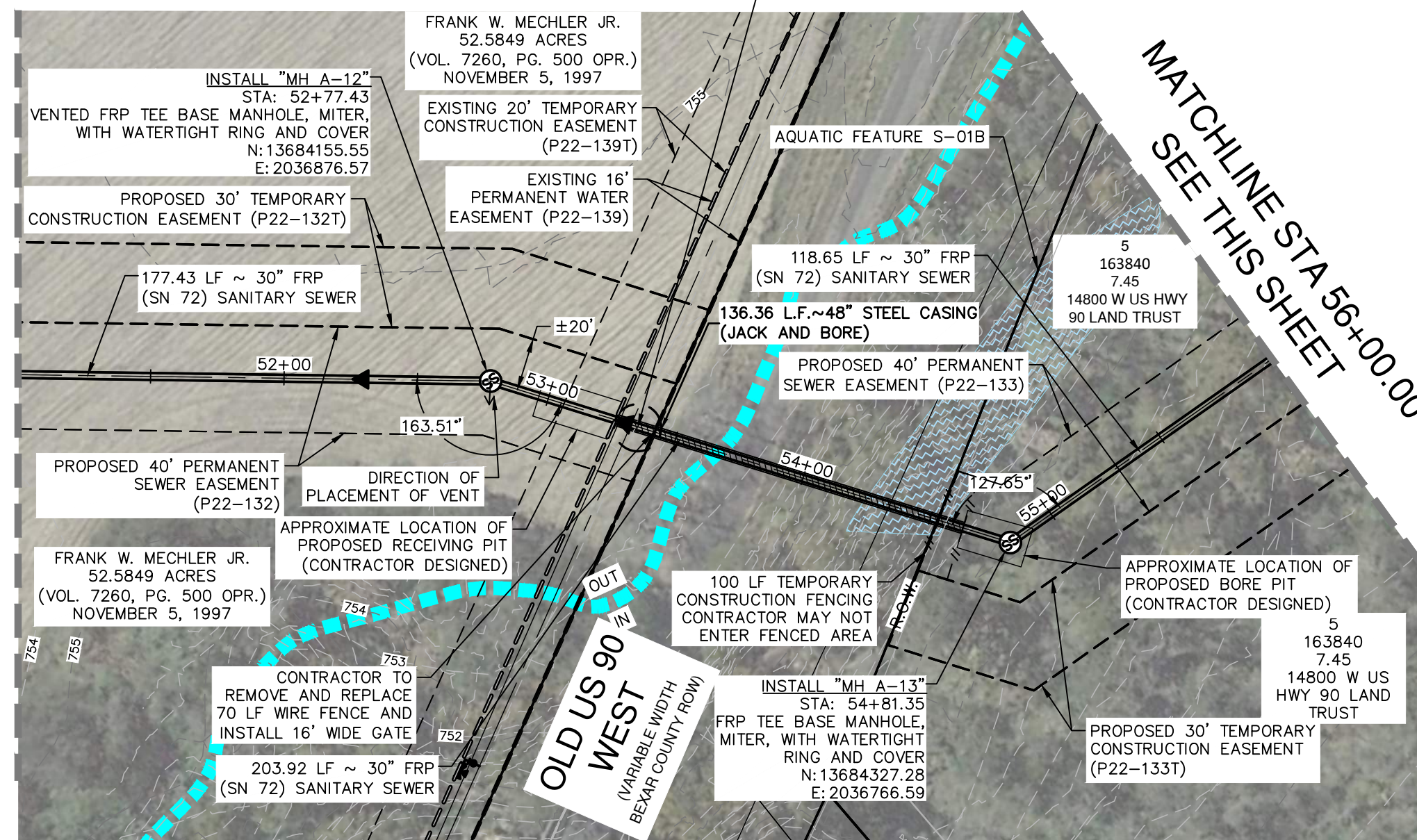
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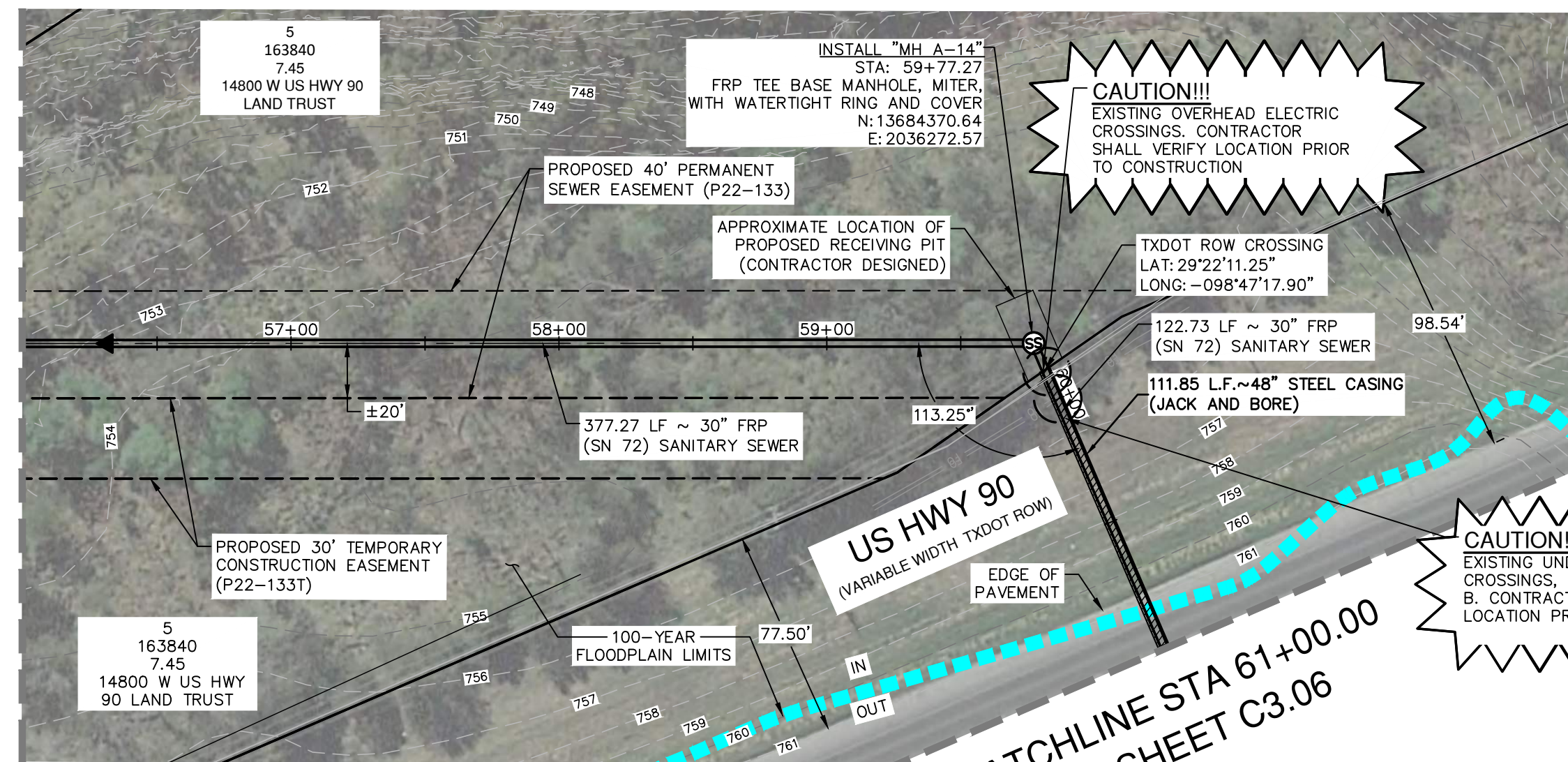
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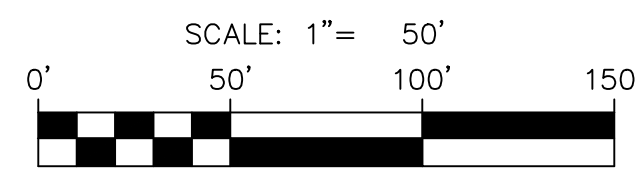
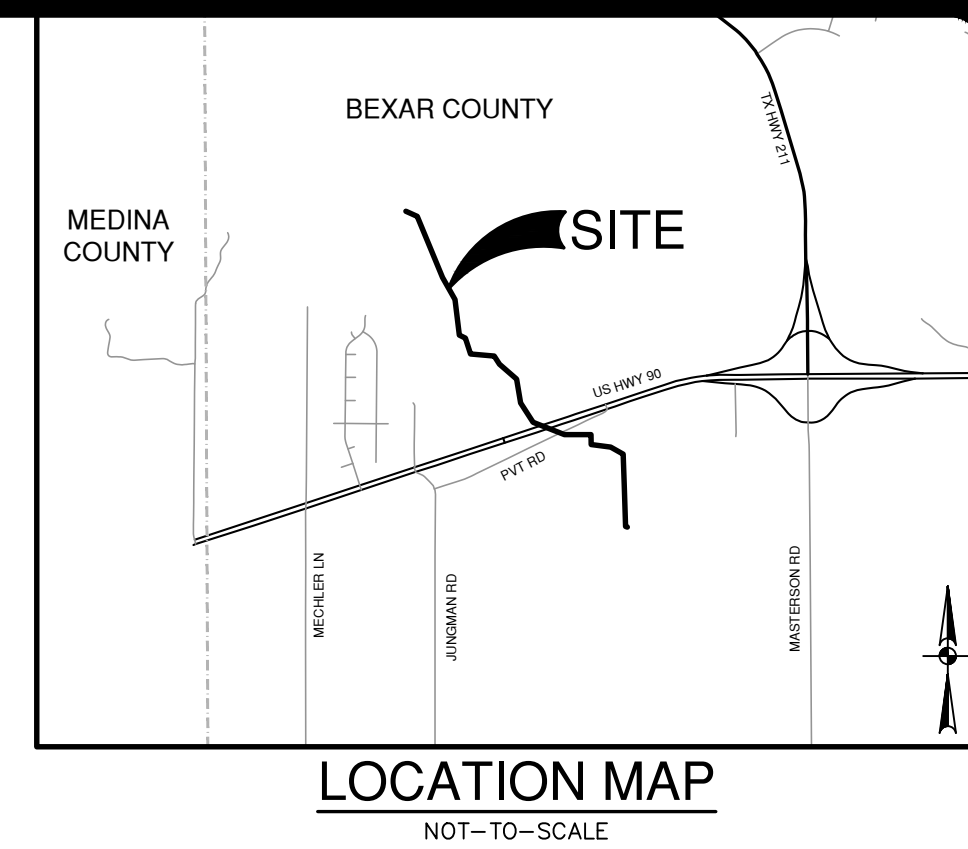
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SEE SHEET C3.04



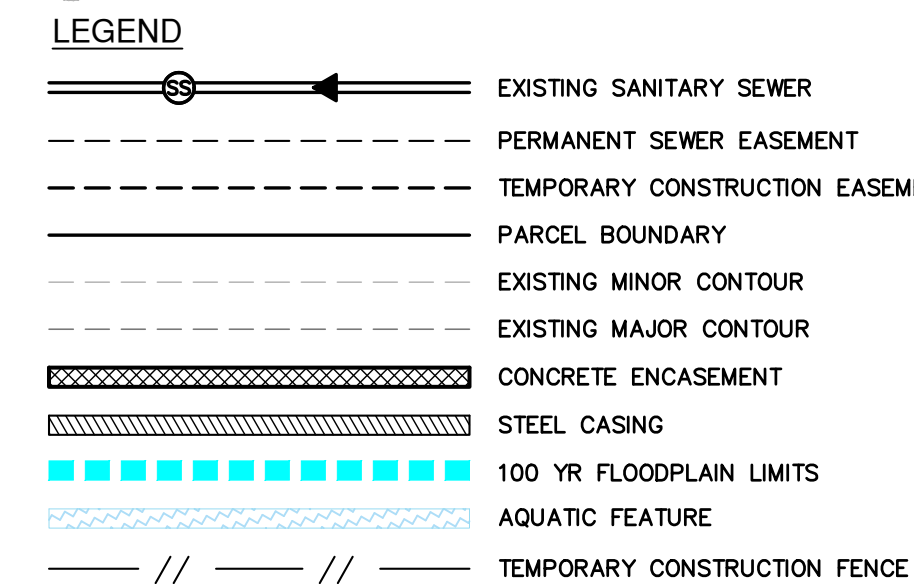
MATCHLINE STA 56+00.00
SEE THIS SHEET



MATCHLINE STA 61+00.00
SEE SHEET C3.06



QUANTITY TABLE		
ITEM	DESCRIPTION	UNIT QTY
507	16" WIDE GATE	EA 1
507.1	TEMPORARY CONSTRUCTION FENCE (4 FEET HIGH)	LF 100
508.1	REMOVE AND REPLACE WIRE FENCE	LF 70
550	TRENCH EXCAVATION PROTECTION	LF 751
852	FRP TEE BASE MANHOLE, MITER, WITH WATERTIGHT RING AND COVER	EA 2
852	VENTED FRP TEE BASE MANHOLE, MITER, WITH WATERTIGHT RING AND COVER	EA 1
857	30" FRP SANITARY SEWER MAIN (OPEN CUT)	LF 751
857	30" FRP SANITARY SEWER MAIN (CARRIER PIPE)	LF 249
856	48" STEEL CASING	LF 249
856.1	48" JACK AND BORE TUNNELING	LF 249
866	SEWER MAIN TV INSPECTION, POST (ALL SIZES)	LF 1000



CAUTION UNDERGROUND UTILITIES

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, TELEPHONE, AND FIBER OPTIC LINES, SITE LIGHTING, ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL, DUCT BANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. THE CONTRACTOR MUST CONTACT 1-800-DIG-TESS AND CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION AND/OR START OF CONSTRUCTION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES (WHETHER SHOWN ON PLANS OR NOT) WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGNER/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.

SEWER: SOUTH WATERSHED - DOS RIOS W.R.C.

STONEHILL OFF-SITE SEWER EXTENSION - PHASE 1

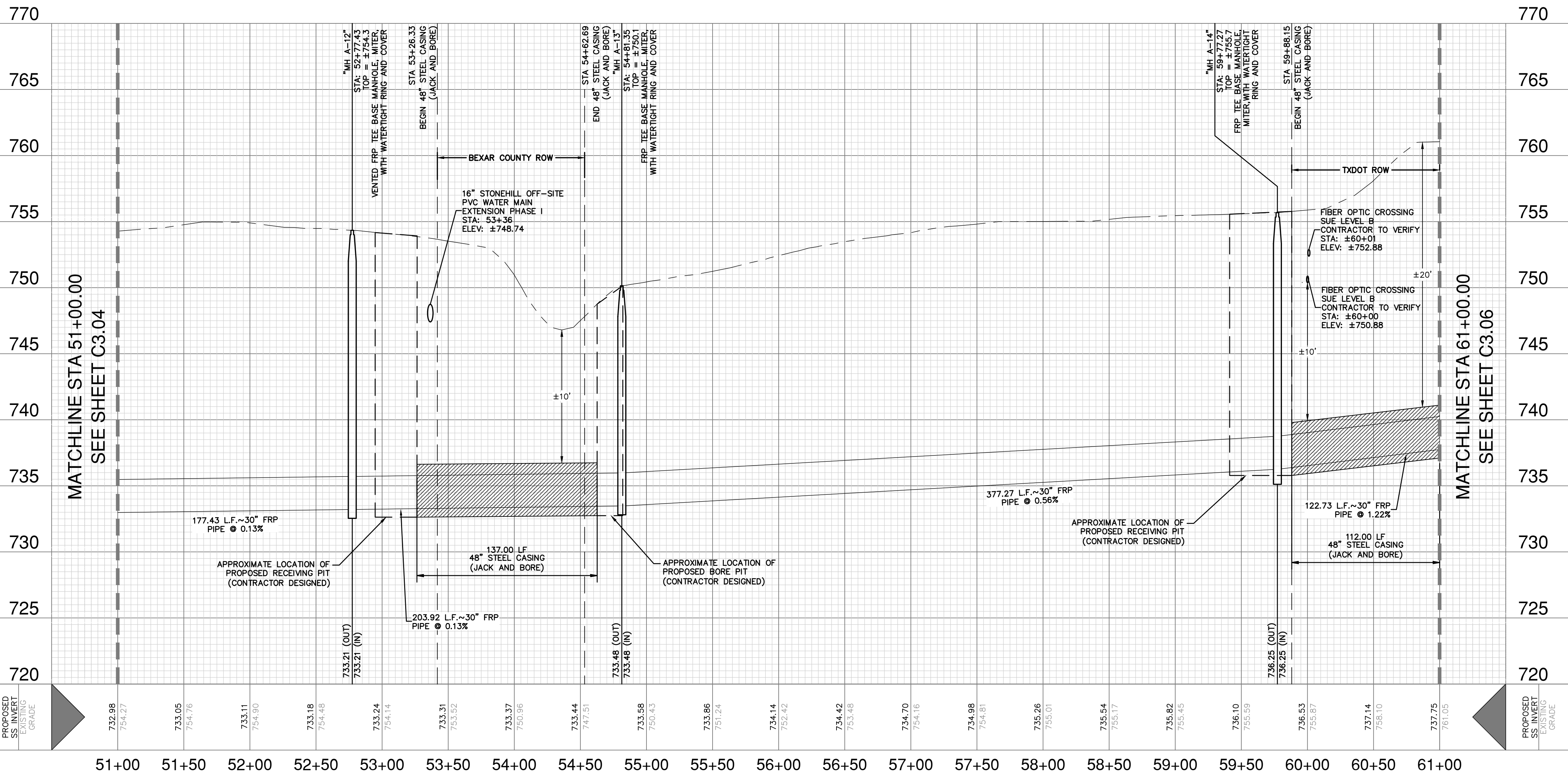
Developer's Name: DR HORTON
Address: 211 NORTH LOOP 1604, SUITE 130
City: SAN ANTONIO State: TEXAS Zip: 78232
Phone: (210) 498-2668 FAX: N/A
SAWS Block Map# 066558,066556,066555,070554,070556 Total Acreage 8.19
Total Linear Footage of Pipe 9,285 LF ~ 30" FRP SEWER Plat No. N/A
Number of Lots N/A TOTAL EDU'S N/A SAWS JOB NO. 23-4518

TEMPORARY FENCING NOTE

CONTRACTOR SHALL INSTALL ORANGE PLASTIC CONSTRUCTION FENCING (APPROXIMATELY 4' TALL) ALONG BOUNDARY SHOWN ON PLAN VIEW OF FORESTED WETLANDS. CONTRACTOR SHALL NOT DISTURB FENCED AREA.

30" SANITARY SEWER
STA. 51+00.00 TO STA. 61+00.00

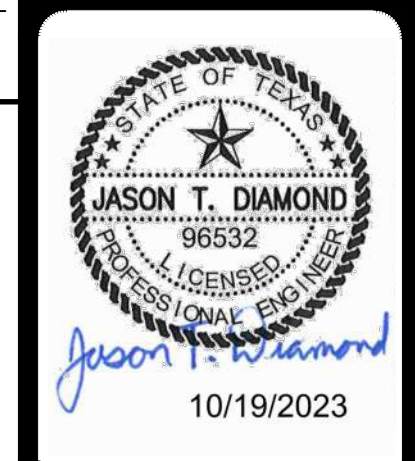
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HORIZONTAL SCALE: 1" = 10'



MATCHLINE STA 61+00.00
SEE SHEET C3.06

MATCHLINE STA 51+00.00
SEE SHEET C3.04

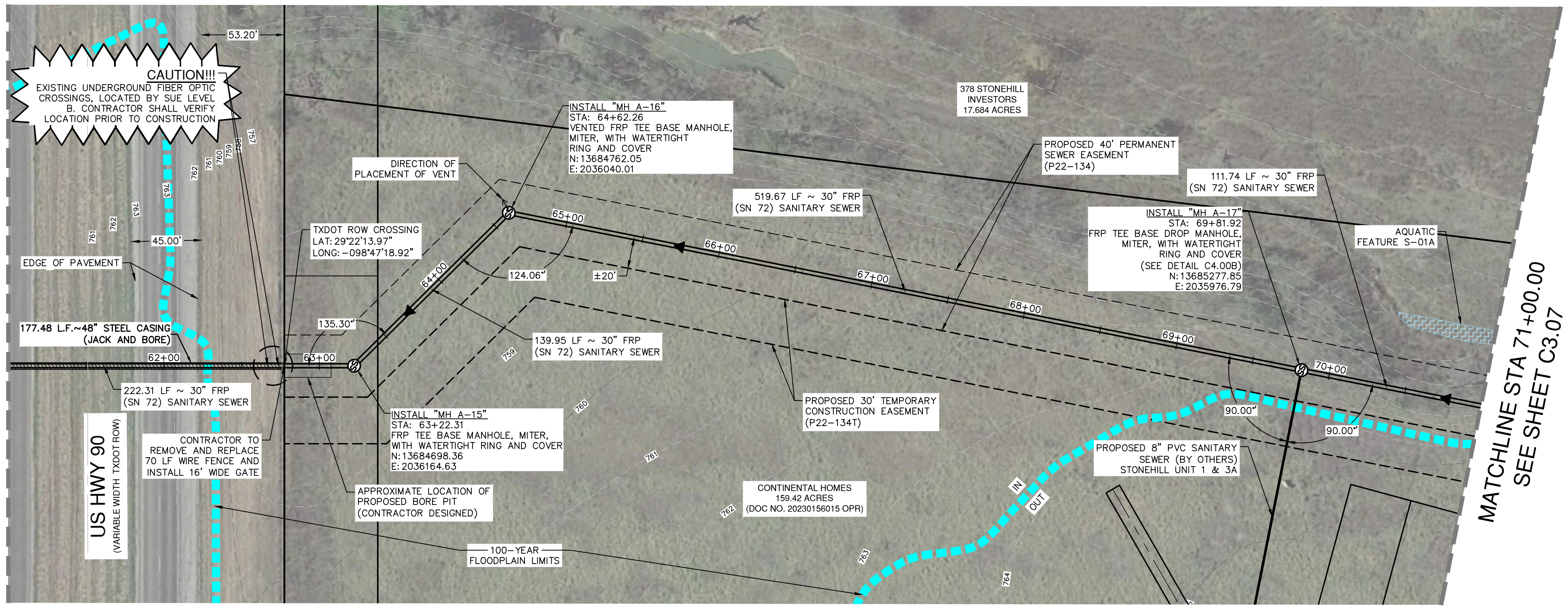
NO.	REVISION	DATE
1	APPENDUM 1	10/19/23



PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008800

STONEHILL OFF-SITE SEWER EXTENSION PHASE I
BEXAR COUNTY, TEXAS
SANITARY SEWER LINE PLAN AND PROFILE
STA. 51+00.00 TO 61+00.00

PLAT NO.	12747-02
JOB NO.	12747-02
DATE	SEPTEMBER 2023
DESIGNER	CD
CHECKED	MP DRAWN RJ
SHEET	C3.05

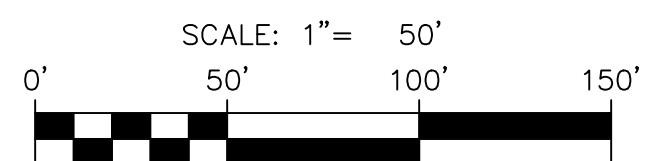
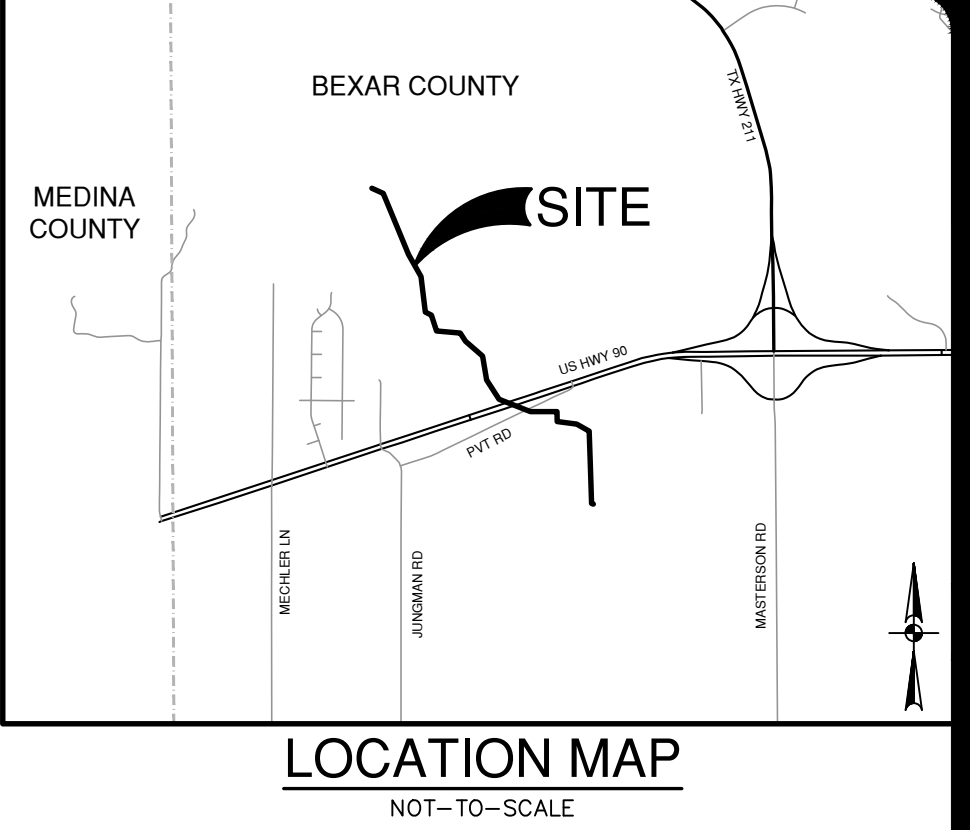


MATCHLINE STA 61+00.00
SEE SHEET C3.05

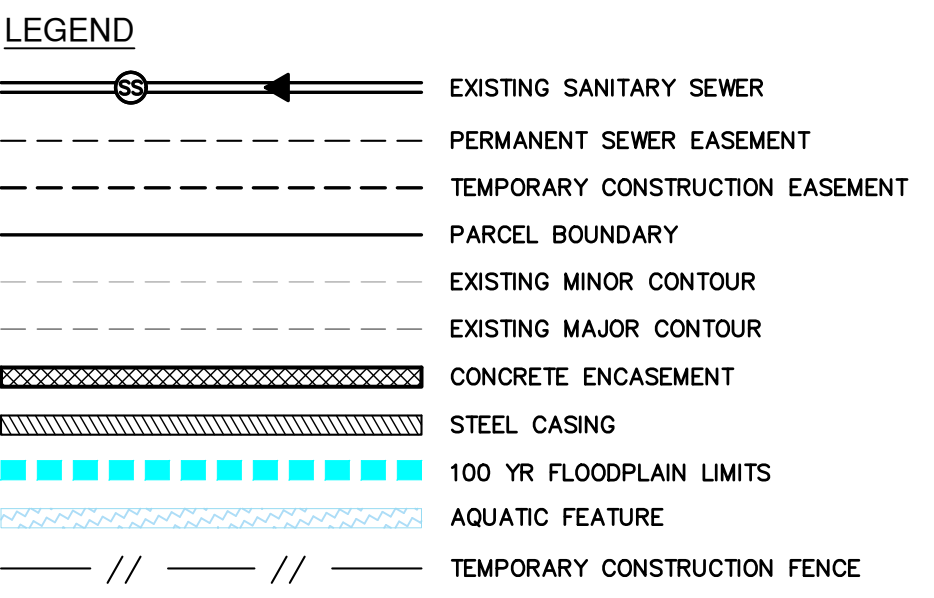
MATCHLINE STA 71+00.00
SEE SHEET C3.07

30" SANITARY SEWER
STA. 61+00.00 TO STA. 71+00.00

VERTICAL SCALE: 1" = 50'
HORIZONTAL SCALE: 1" = 10'



QUANTITY TABLE			
ITEM	DESCRIPTION	UNIT	QTY
507	16" WIDE GATE	EA	1
508.1	REMOVE AND REPLACE WIRE FENCE	LF	70
550	TRENCH EXCAVATION PROTECTION	LF	822
852	FRP TEE BASE MANHOLE, MITER, WITH WATERTIGHT RING AND COVER	EA	1
852	FRP TEE BASE DROP MANHOLE, MITER, WITH WATERTIGHT RING AND COVER	EA	1
857	30" FRP SANITARY SEWER MAIN (OPEN CUT) (10'-15' DEPTH)	LF	584
857	30" FRP SANITARY SEWER MAIN (OPEN CUT) (15'-20' DEPTH)	LF	239
857	30" FRP SANITARY SEWER MAIN (CARRIER PIPE)	LF	178
856	48" STEEL CASING	LF	178
856.1	48" JACK AND BORE TUNNELING	LF	178
866	SEWER MAIN TV INSPECTION, POST (ALL SIZES)	LF	1000



CAUTION UNDERGROUND UTILITIES

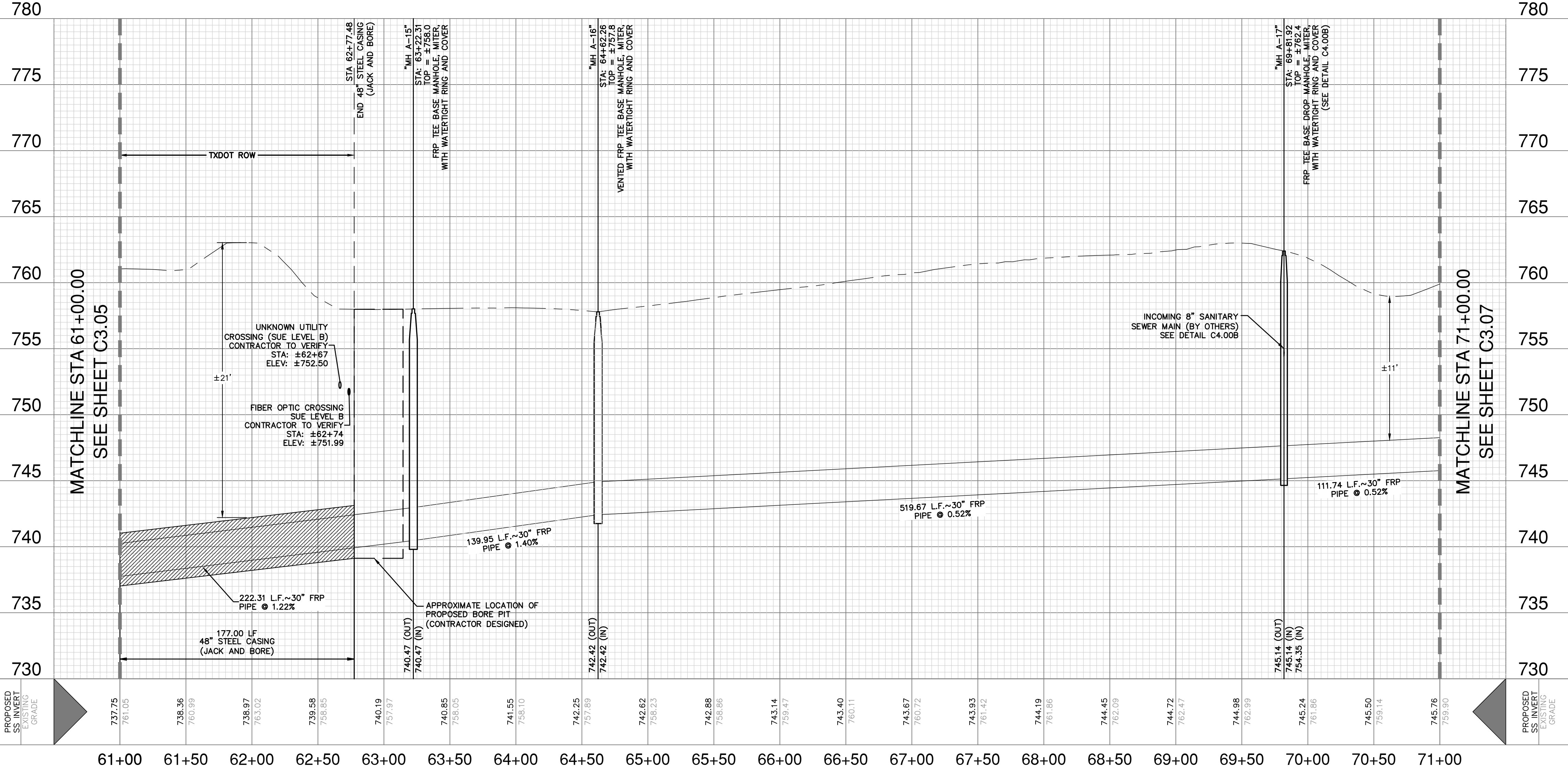
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TRENCH EXCAVATION SAFETY PROTECTION

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SEWER: SOUTH WATERSHED - DOS RIOS W.R.C.
STONEHILL OFF-SITE SEWER EXTENSION - PHASE 1

Developer's Name: DR HORTON
Address: 211 NORTH LOOP 1604, SUITE 130
City: SAN ANTONIO State: TEXAS ZIP: 78232
Phone: (210) 498-2668 FAX: N/A
SAWS Block Map #: 066558, 066560, 066556, 066558, 070554, 070556 Total Acreage: 8.19
Total Linear Footage of Pipe: 9,285 LF ~ 30" FRP SEWER Plat No.: N/A
Number of Lots: N/A TOTAL EDU'S: N/A SAWS JOB NO.: 23-4518



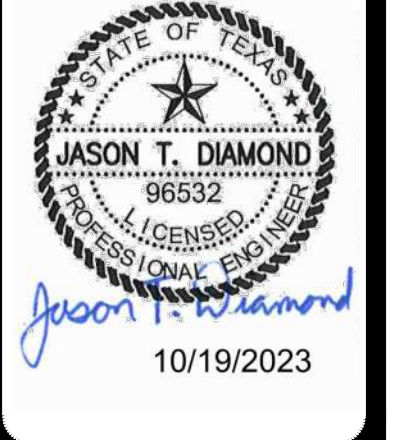
MATCHLINE STA 61+00.00
SEE SHEET C3.05

MATCHLINE STA 71+00.00
SEE SHEET C3.07

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THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL. IMAGERY PROVIDED BY GOOGLE; UNLESS OTHERWISE NOTED. Imagery © 2016, CAPOCO, Digital Globe, Texas Orthographic Program, USDA Farm Service Agency.

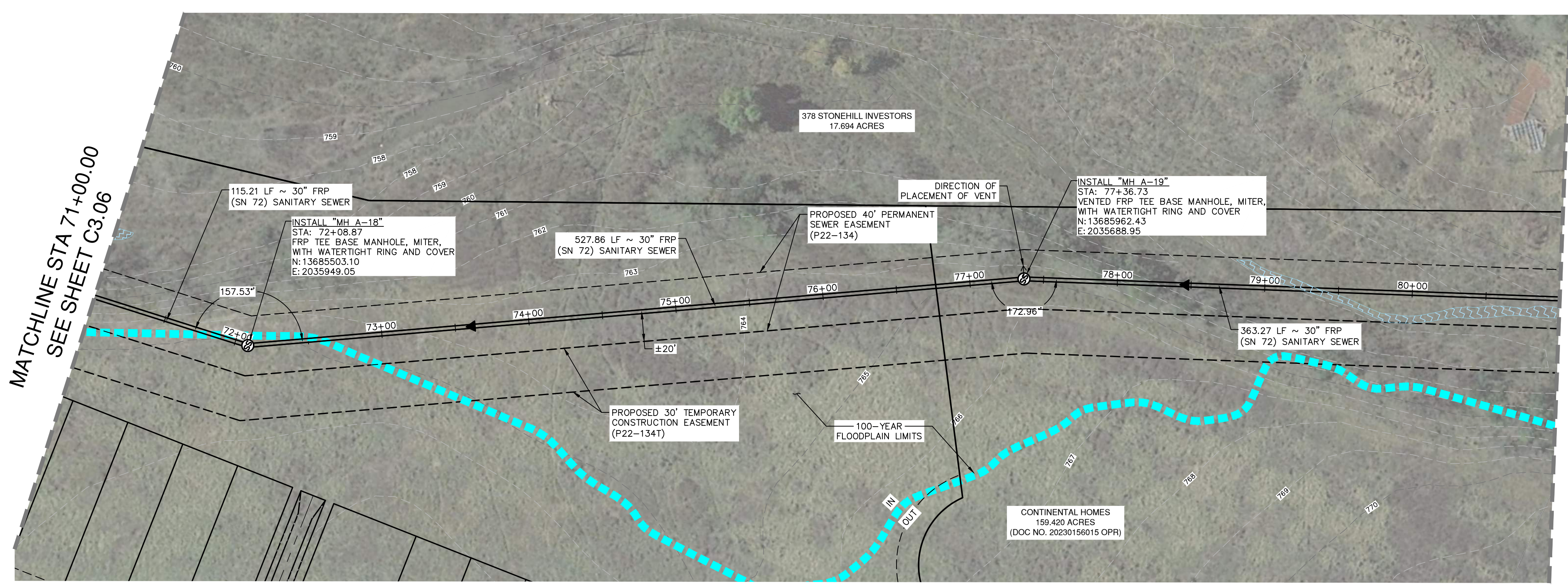
DATE	10/19/23
NO.	1
REVISION	APPENDUM 1



PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10088800

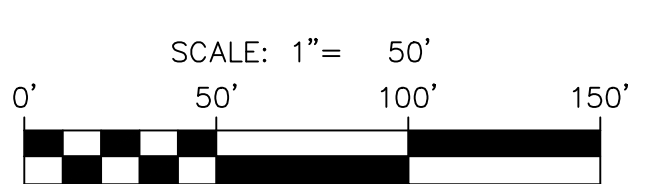
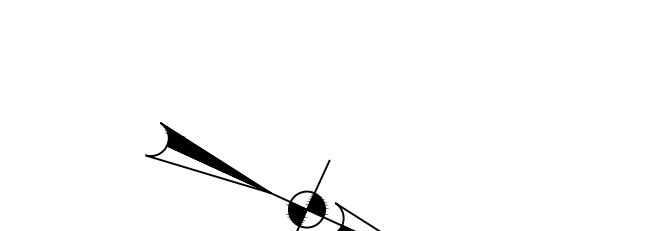
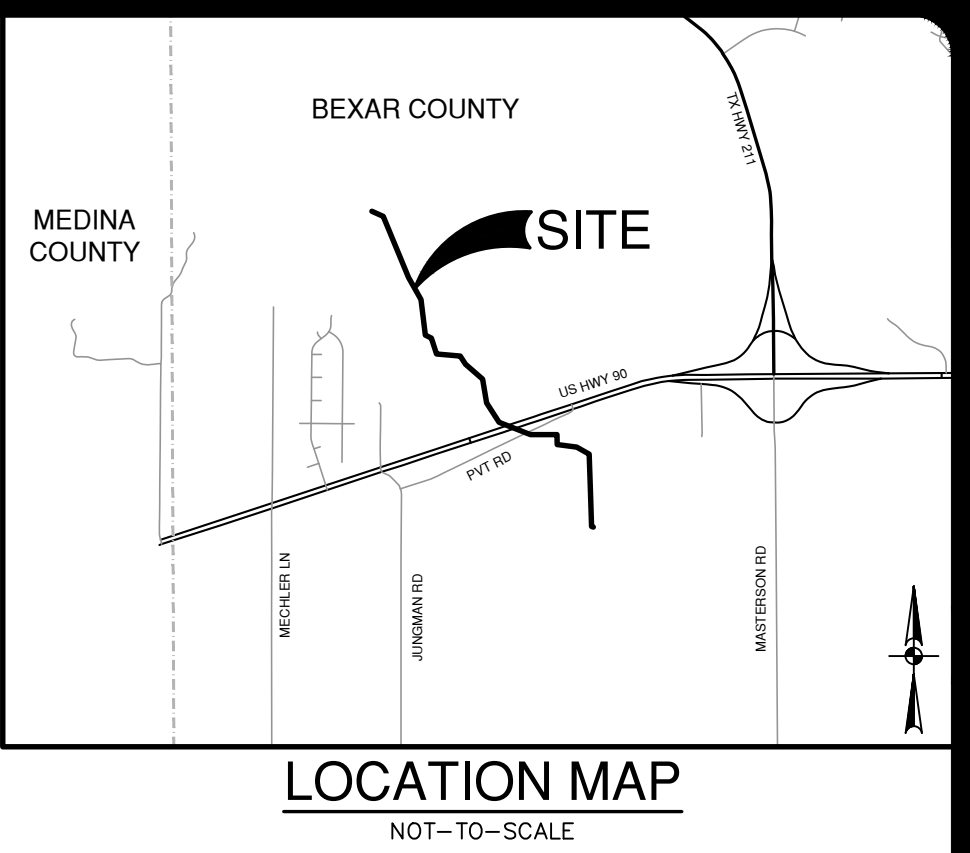
STONEHILL OFF-SITE SEWER EXTENSION PHASE I
BEXAR COUNTY, TEXAS
SANITARY SEWER LINE PLAN AND PROFILE
STA. 61+00.00 TO 71+00.00

PLAT NO.	
JOB NO.	12747-02
DATE	SEPTEMBER 2023
DESIGNER	CD
CHECKED	MP DRAWN RJ
SHEET	C3.06



30" SANITARY SEWER
STA. 71+00.00 TO STA. 81+00.00

VERTICAL SCALE: 1" = 50'
HORIZONTAL SCALE: 1" = 10'



QUANTITY TABLE			
ITEM	DESCRIPTION	UNIT	QTY
550	TRENCH EXCAVATION PROTECTION	LF	1000
852	FRP TEE BASE MANHOLE, MITER, WITH WATERTIGHT RING AND COVER	EA	1
852	VENTED FRP TEE BASE MANHOLE, MITER, WITH WATERTIGHT RING AND COVER	EA	1
857	30" FRP SANITARY SEWER MAIN (OPEN CUT) (10'-15' DEPTH)	LF	841
857	30" FRP SANITARY SEWER MAIN (OPEN CUT) (15'-20' DEPTH)	LF	159
866	SEWER MAIN TV INSPECTION, POST (ALL SIZES)	LF	1000

- LEGEND**
- EXISTING SANITARY SEWER
 - PERMANENT SEWER EASEMENT
 - TEMPORARY CONSTRUCTION EASEMENT
 - PARCEL BOUNDARY
 - EXISTING MINOR CONTOUR
 - EXISTING MAJOR CONTOUR
 - CONCRETE ENCASUREMENT
 - STEEL CASING
 - 100 YR FLOODPLAIN LIMITS
 - AQUATIC FEATURE
 - TEMPORARY CONSTRUCTION FENCE

CAUTION UNDERGROUND UTILITIES

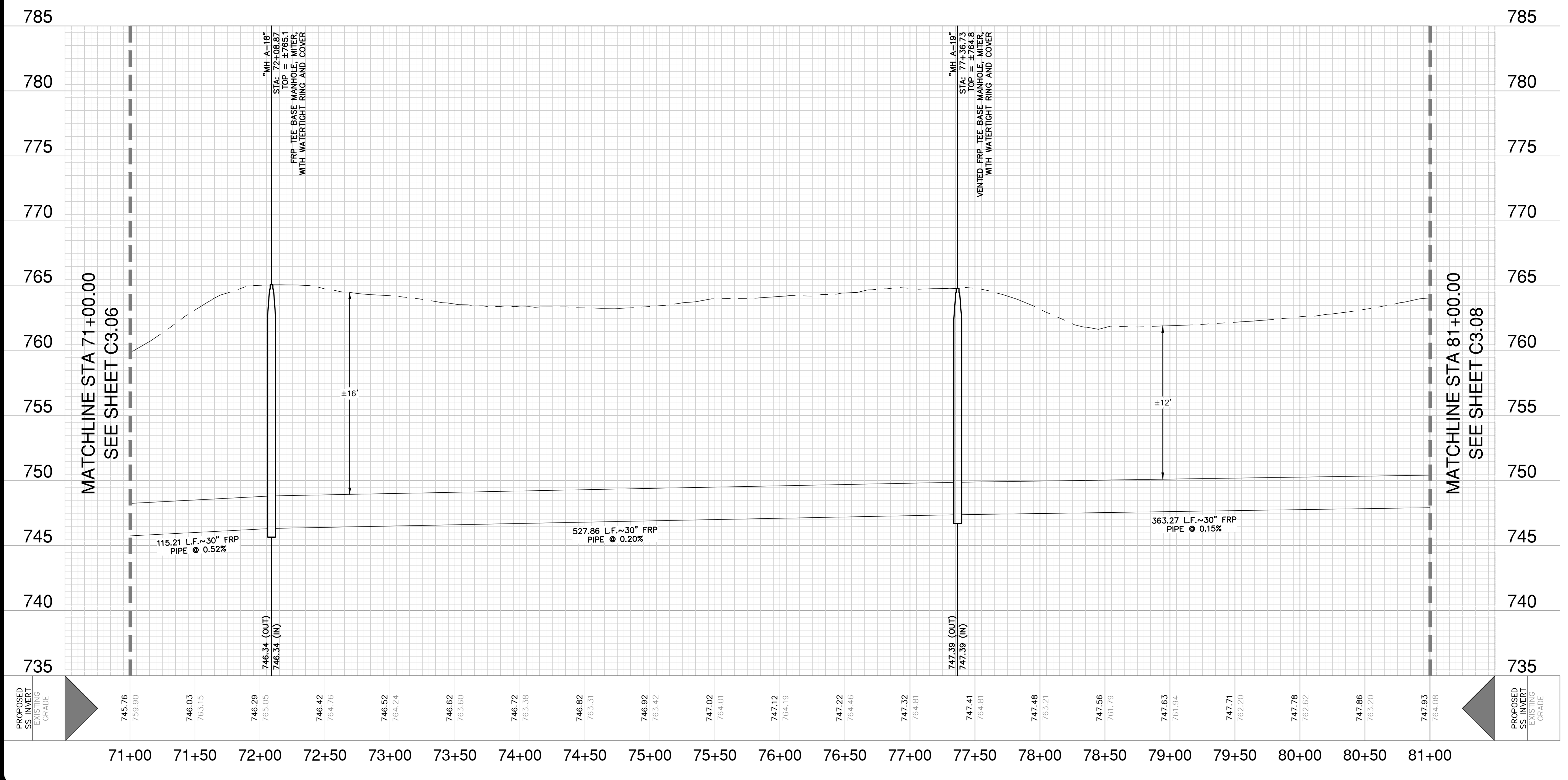
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, TELEPHONE, AND FIBER OPTIC LINES; SITE LIGHTING, ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL, DUCT BANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. THE CONTRACTOR MUST CONTACT 1-800-DIG-TESS AND CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION AND/OR START OF CONSTRUCTION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES (WHETHER SHOWN ON PLANS OR NOT) WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

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SEWER: SOUTH WATERSHED - DOS RIOS W.R.C.
STONEHILL OFF-SITE SEWER EXTENSION - PHASE 1

Developer's Name: DR HORTON
Address: 211 NORTH LOOP 1604, SUITE 130
City: SAN ANTONIO State: TEXAS ZIP: 78232
Phone: (210) 498-2668 FAX: N/A
SAWS Block Map# 066558, 066560, 066556, 066558, 070554, 070556 Total Acreage: 8.19
Total Linear Footage of Pipe: 9,285 LF ~ 30" FRP SEWER Plat No.: N/A
Number of Lots: N/A TOTAL EDU'S: N/A SAWS JOB NO.: 23-4518



Notes: Oct 18, 2023, 4:36pm User: JD: eddy
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DATE: 10/19/23
NO. REVISION: 1
APPENDIX 1

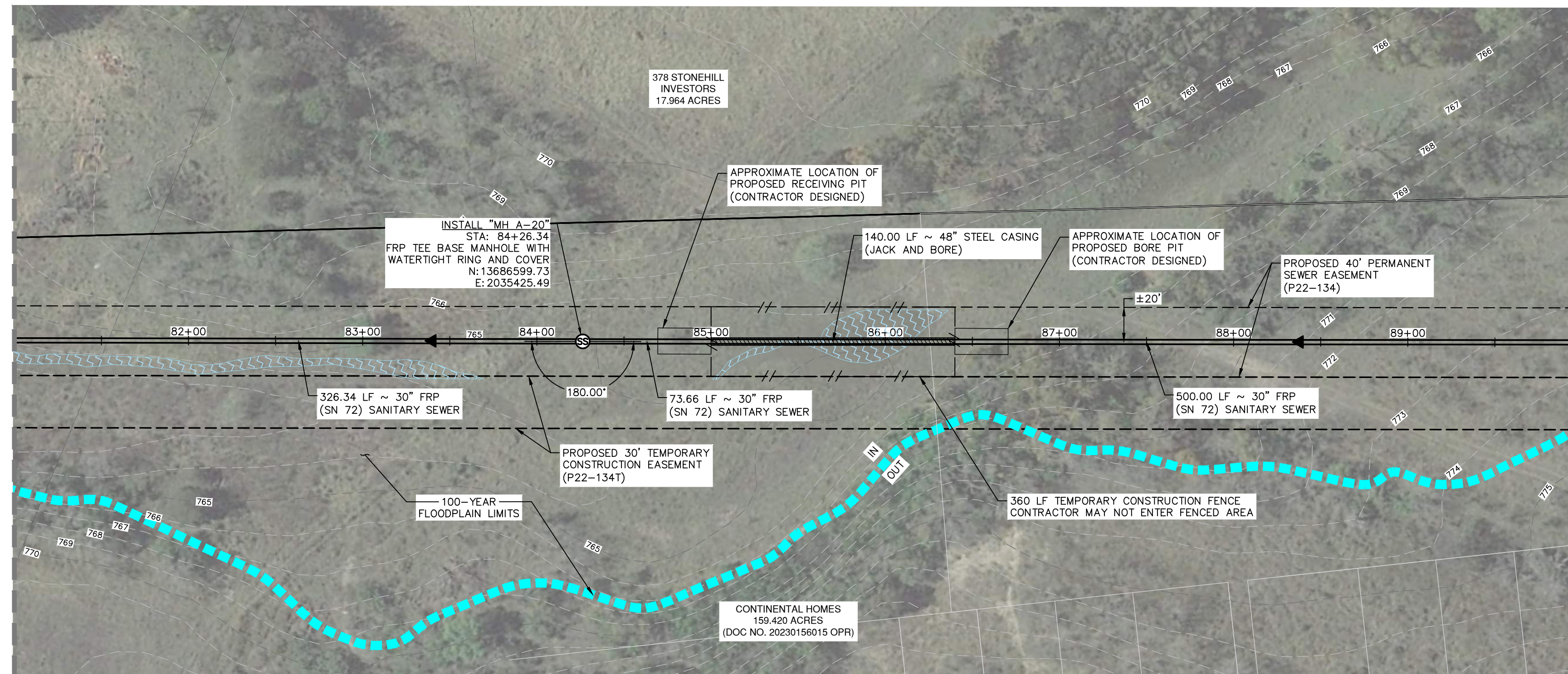
STATE OF TEXAS
JASON T. DIAMOND
LICENSED PROFESSIONAL ENGINEER
10/19/2023

PAPE-PAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008860

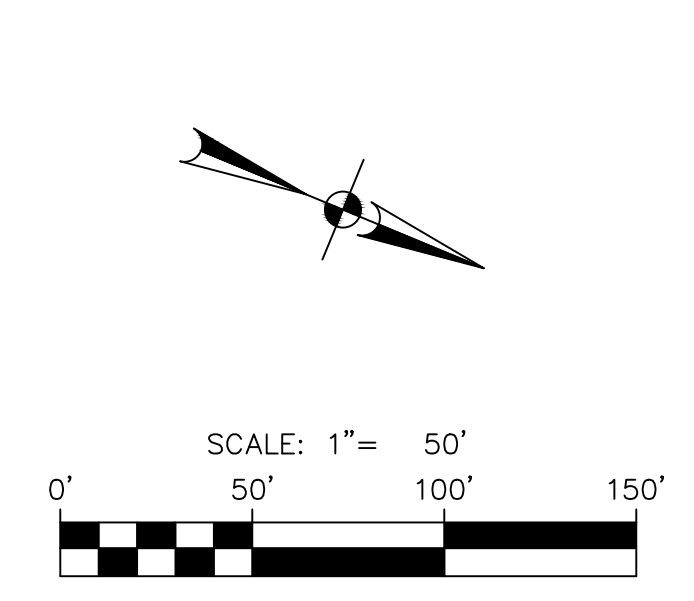
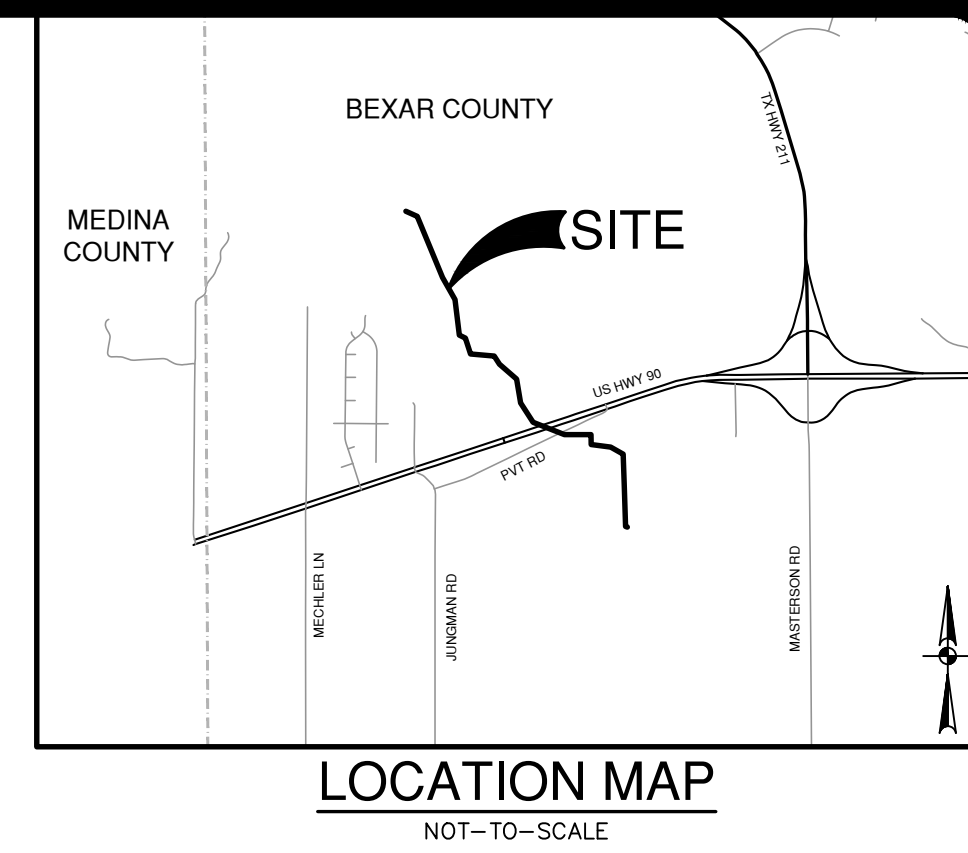
STONEHILL OFF-SITE SEWER EXTENSION PHASE I
BEXAR COUNTY, TEXAS
SANITARY SEWER LINE PLAN AND PROFILE
STA. 71+00.00 TO 81+00.00

PLAT NO.:
JOB NO.: 12747-02
DATE: SEPTEMBER 2023
DESIGNER: CD
CHECKED: MP DRAWN: RJ
SHEET: C3.07

MATCHLINE STA 81+00.00
SEE SHEET C3.07



MATCHLINE STA 90+00.00
SEE SHEET C3.09



ITEM	DESCRIPTION	UNIT	QTY
507.1	TEMPORARY CONSTRUCTION FENCE (4 FEET HIGH)	LF	360
550	TRENCH EXCAVATION PROTECTION	LF	900
852	FRP TEE BASE MANHOLE WITH WATERTIGHT RING AND COVER	EA	1
856	48" STEEL CASING	LF	140
856.1	48" JACK AND BORE TUNNELING (10'-15' DEPTH)	LF	140
857	30" FRP SANITARY SEWER MAIN (OPEN CUT) (15'-20' DEPTH)	LF	562
857	30" FRP SANITARY SEWER MAIN (OPEN CUT) (20'-25' DEPTH)	LF	54
857	30" FRP SANITARY SEWER MAIN (OPEN CUT) (20'-25' DEPTH)	LF	144
857	30" FRP SANITARY SEWER MAIN (CARRIER PIPE)	LF	140
866	SEWER MAIN TV INSPECTION, POST (ALL SIZES)	LF	900

- LEGEND**
- EXISTING SANITARY SEWER
 - PERMANENT SEWER EASEMENT
 - TEMPORARY CONSTRUCTION EASEMENT
 - PARCEL BOUNDARY
 - EXISTING MINOR CONTOUR
 - EXISTING MAJOR CONTOUR
 - CONCRETE ENCASEMENT
 - STEEL CASING
 - 100 YR FLOODPLAIN LIMITS
 - AQUATIC FEATURE
 - TEMPORARY CONSTRUCTION FENCE
- CAUTION UNDERGROUND UTILITIES**

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, TELEPHONE, AND FIBER OPTIC LINES, SITE LIGHTING, ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL, DUCT BANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. THE CONTRACTOR MUST CONTACT 1-800-DIG-TESS AND CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION AND/OR START OF CONSTRUCTION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES (WHETHER SHOWN ON PLANS OR NOT) WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

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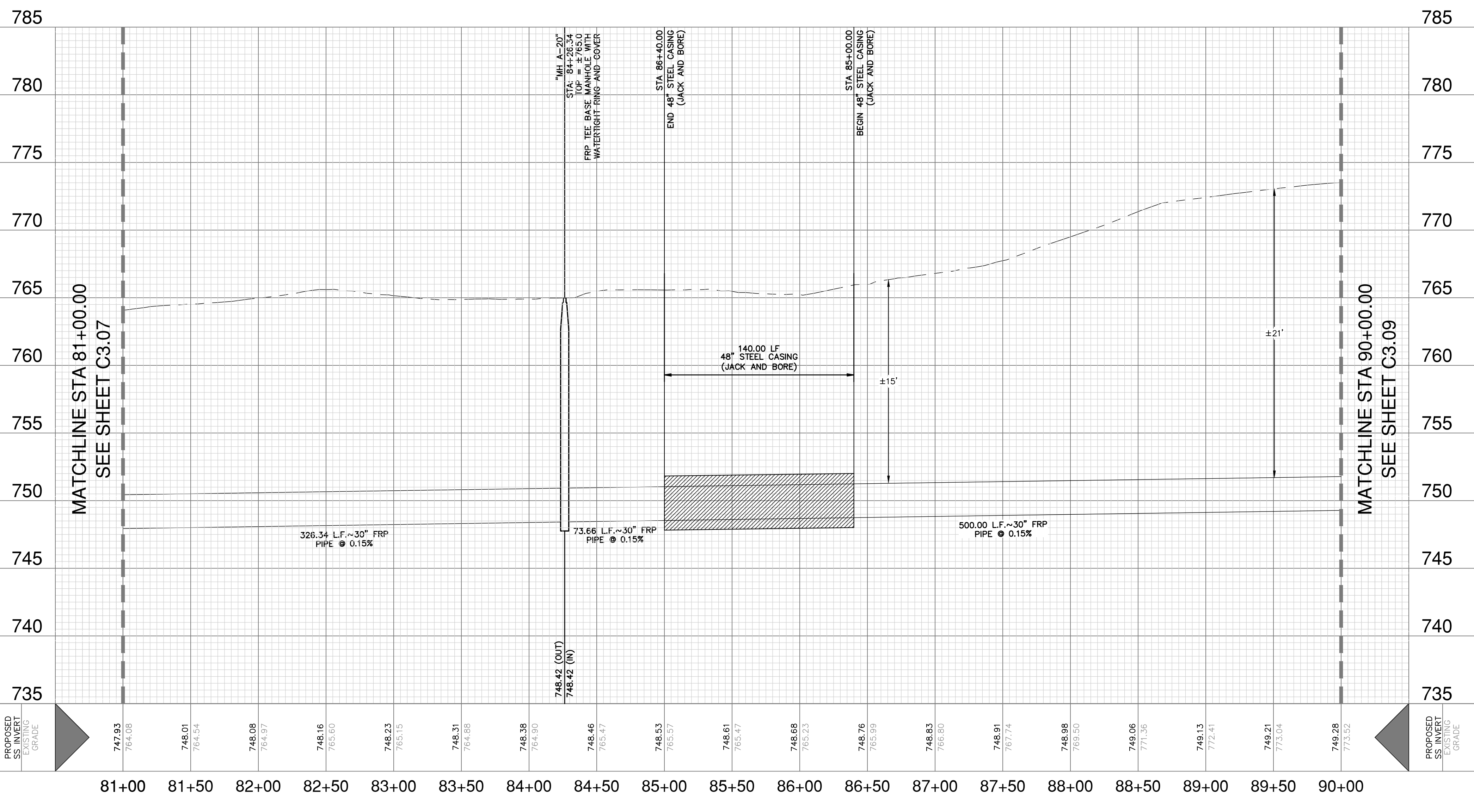
SEWER: SOUTH WATERSHED - DOS RIOS W.R.C.
STONEHILL OFF-SITE SEWER EXTENSION - PHASE 1

Developer's Name: DR HORTON
Address: 211 NORTH LOOP 1604, SUITE 130
City: SAN ANTONIO State: TEXAS Zip: 78232
Phone# (210) 498-2668 FAX# N/A
SAWS Block Map# 066558,066558,066558,070554,070556 Total Acreage 8.19
Total Linear Footage of Pipe 9,285 LF ~ 30" FRP SEWER Plat No. N/A
Number of Lots N/A TOTAL EDU'S N/A SAWS JOB NO. 23-4518

TEMPORARY FENCING NOTE
CONTRACTOR SHALL INSTALL ORANGE PLASTIC CONSTRUCTION FENCING (APPROXIMATELY 4' TALL) ALONG BOUNDARY SHOWN ON PLAN VIEW OF FORESTED WETLANDS. CONTRACTOR SHALL NOT DISTURB FENCED AREA.

30" SANITARY SEWER
STA. 81+00.00 TO STA. 90+00.00

VERTICAL SCALE: 1" = 50'
HORIZONTAL SCALE: 1" = 10'



Notes: Oct 18, 2023, 4:39pm User: JD: eddy
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DATE	10/19/23
NO.	1
REVISION	APPENDUM 1

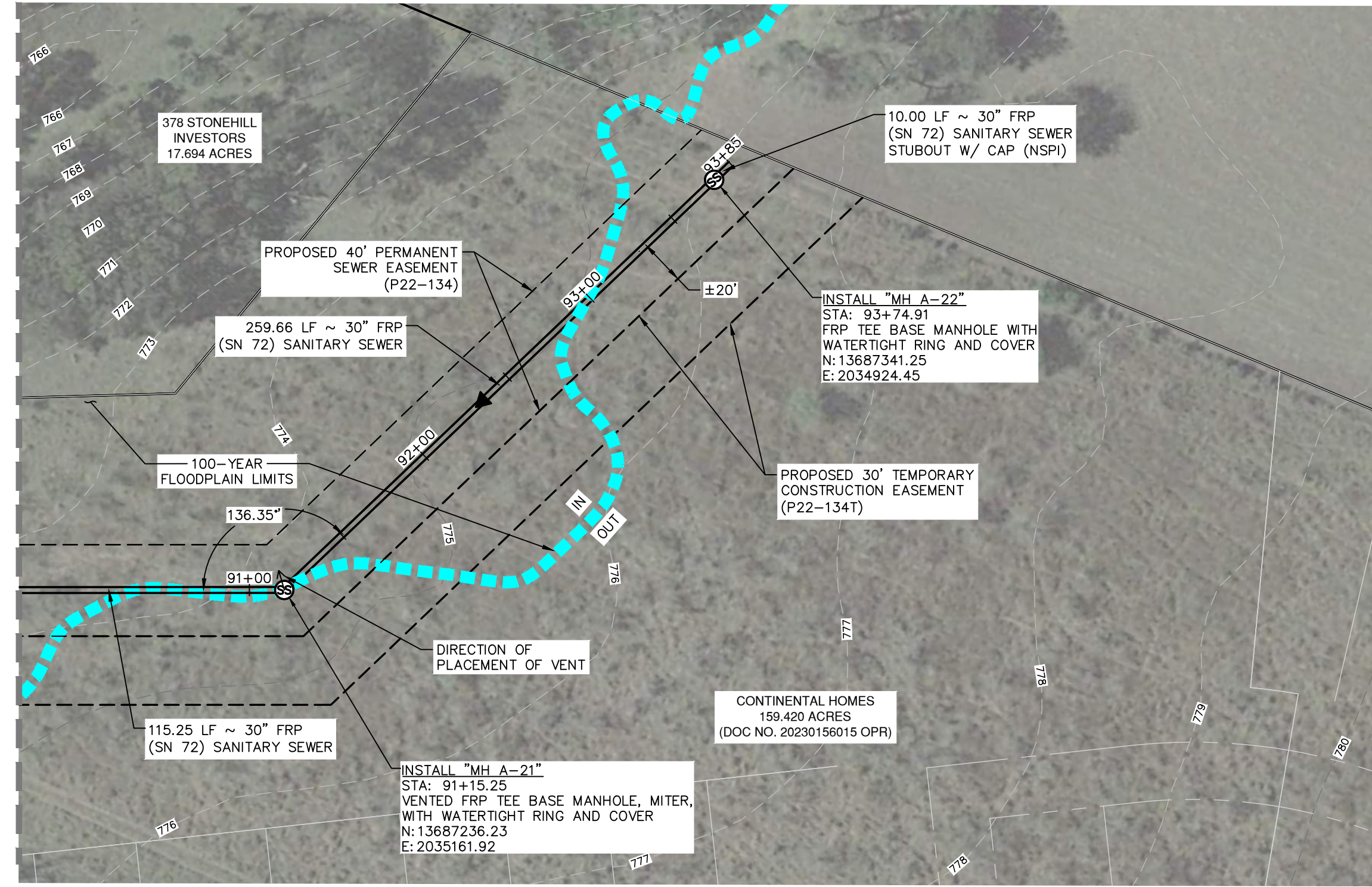


PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10088800

STONEHILL OFF-SITE SEWER EXTENSION PHASE I
BEXAR COUNTY, TEXAS
SANITARY SEWER LINE PLAN AND PROFILE
STA. 81+00.00 TO 90+00.00

PLAT NO.	
JOB NO.	12747-02
DATE	SEPTEMBER 2023
DESIGNER	CD
CHECKED	MP DRAWN RJ
SHEET	C3.08

MATCHLINE STA 90+00.00
SEE SHEET C3.08



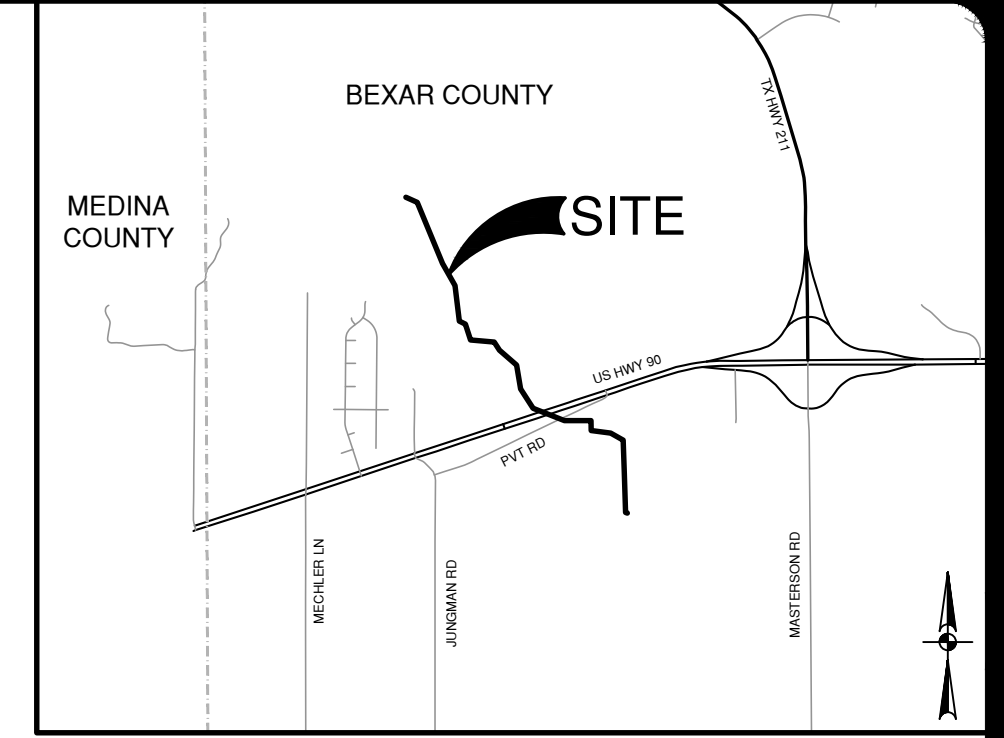
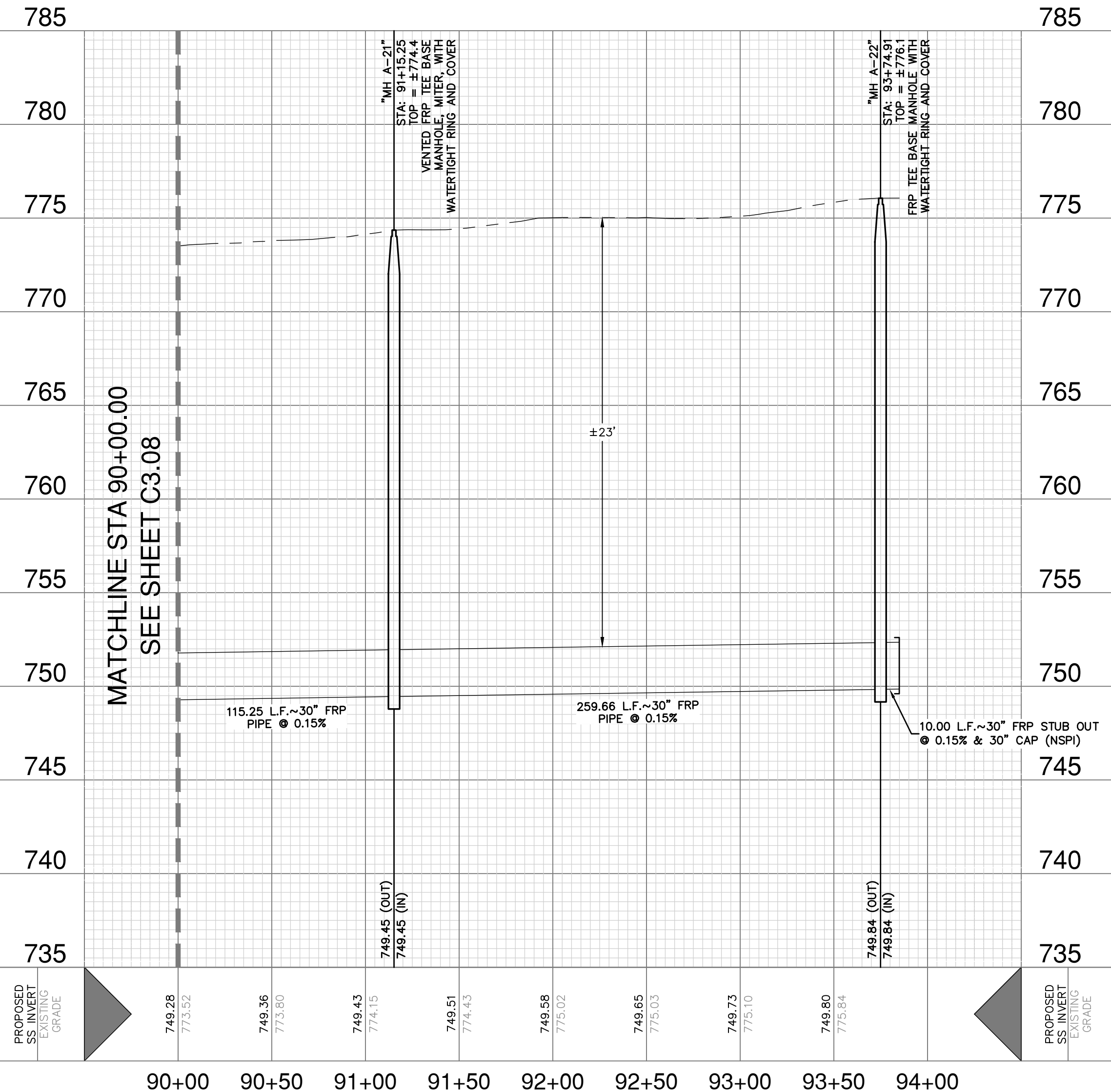
30" SANITARY SEWER

STA. 90+00.00 TO STA. 93+74.91

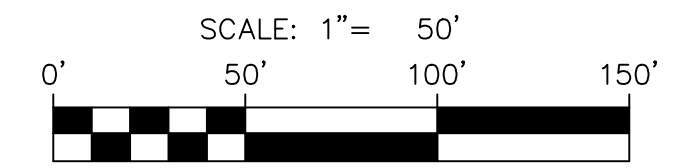
VERTICAL SCALE: 1" = 50'

HORIZONTAL SCALE: 1" = 10'

MATCHLINE STA 90+00.00
SEE SHEET C3.08



LOCATION MAP
NOT-TO-SCALE



QUANTITY TABLE			
ITEM	DESCRIPTION	UNIT	QTY
550	TRENCH EXCAVATION PROTECTION	LF	385
852	VENTED FRP TEE BASE MANHOLE, MITER, WITH WATERTIGHT RING AND COVER	EA	1
852	FRP TEE BASE MANHOLE WITH WATERTIGHT RING AND COVER	EA	1
857	30" FRP SANITARY SEWER MAIN (OPEN CUT) (20'-25' DEPTH)	LF	385
866	SEWER MAIN TV INSPECTION, POST (ALL SIZES)	LF	385

LEGEND

- EXISTING SANITARY SEWER
- PERMANENT SEWER EASEMENT
- TEMPORARY CONSTRUCTION EASEMENT
- PARCEL BOUNDARY
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- CONCRETE ENCASUREMENT
- STEEL CASING
- 100 YR FLOODPLAIN LIMITS
- AQUATIC FEATURE
- TEMPORARY CONSTRUCTION FENCE

CAUTION UNDERGROUND UTILITIES

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, TELEPHONE, AND FIBER OPTIC LINES, SITE LIGHTING, ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL, DUCT BANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. THE CONTRACTOR MUST CONTACT 1-800-DIG-TESS AND CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION AND/OR START OF CONSTRUCTION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES (WHETHER SHOWN ON PLANS OR NOT) WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

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.

SEWER: SOUTH WATERSHED - DOS RIOS W.R.C.
STONEHILL OFF-SITE SEWER EXTENSION - PHASE 1

Developer's Name: DR HORTON
Address: 211 NORTH LOOP 1604, SUITE 130
City: SAN ANTONIO State: TEXAS ZIP: 78232
Phone# (210) 498-2668 FAX# N/A
SAWS Block Map# D66558,066560,068556,070554,070556 Total Acreage 8.19
Total Linear Footage of Pipe 9,285 LF ~ 30" FRP SEWER Plat No. N/A
Number of Lots N/A TOTAL EDU'S N/A SAWS JOB NO. 23-4518

DATE	10/19/23
NO.	1
REVISION	APPENDUM 1



PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10088800

STONEHILL OFF-SITE SEWER EXTENSION PHASE I
BEXAR COUNTY, TEXAS
SANITARY SEWER LINE PLAN AND PROFILE
STA. 90+00.00 TO 93+74.91

PLAT NO. _____
JOB NO. 12747-02
DATE SEPTEMBER 2023
DESIGNER CD
CHECKED MP DRAWN RJ
SHEET C3.09

Notes: Oct 18, 2023, 4:40pm, User: jtd, e:\p1\...
File: P:\12747\02\Design\Civil\SSWP-224702.dwg
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