

SEWER CONSTRUCT for EASTRIDGE OFFSITE

SAWS STANDARD GENERAL CONSTRUCTION NOTES
ASSOCIATED WITH 2021 SAWS STANDARD SPECS
Updated March 18, 2021

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 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 SAWS website, https://apps.saws.org/business_center/specs/construction/specs/ unless otherwise noted within 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-built for SAWS infrastructure can be obtained at website below. Contractor shall coordinate physical locations for SAWS infrastructure through the SAWS inspection. 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:

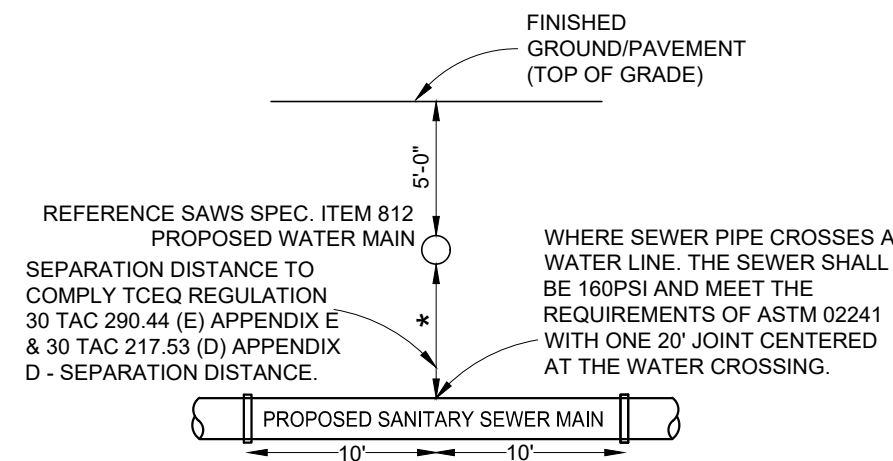
San Antonio Water System
Request as-builts: <https://www.saws.org/service/locates-service/>
CSOA Database 210-206-8433
CSOA Traffic Signal Operations 210-207-7720
Texas State Wide One Call Locator 1-800-545-6005 or 811
7. The Contractor shall be responsible for restoring existing fences, curbs, streets, 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 and 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 these SAWS recognized holidays.

Weekend Work: Contractors are required to submit request to the SAWS Inspection Construction department by 12:00pm on the Wednesday prior to the weekend being requested. Request should be sent to constructworkreq@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. Contractor 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, the utility pole is to be braced, 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.
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) 472-5940.
18. TRENCH EXCAVATION SAFETY PROTECTION: Contractor and/or Contractor's independently retained employee or structural design/geotechnical engineer shall review the plans and provide geotechnical information and the installed 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 shall ensure that any 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.

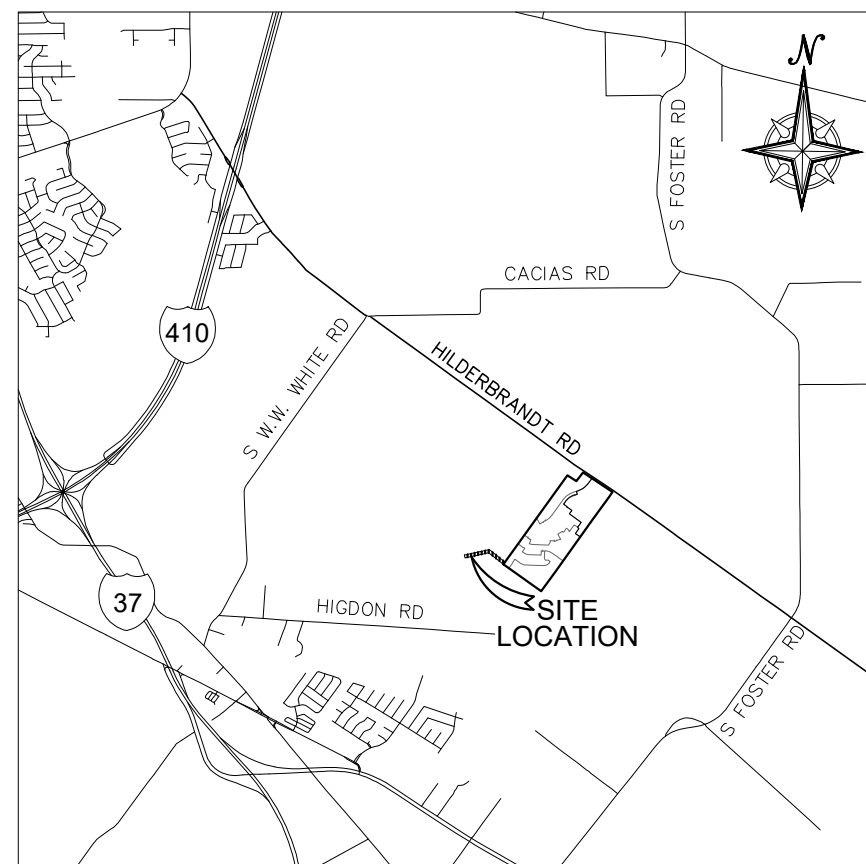
SEWER:

22. 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 immediately at 210-704-SAWS (210-704-7287). 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 cleanup 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.
23. 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.
24. Prior to 3:30am, any shutdowns of existing force mains of any size must be coordinated with the SAWS Construction Inspection Division at 210-723-3550 and/or SAWS Production groups for least of 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.
25. 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).
26. SMART MANHOLE COVERS: The contractor shall notify SAWS EOC at 210-704-SAWS (210-233-7287) and/or 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 any manhole. The Contractor shall have SAWS remove the Smart Cover. Any damage done to the Smart Cover will be charged to the Contractor through a change order.
27. FLOW METERS IN MANHOLES: The contractor shall notify Bobby Johnson at 210-233-3495 or Abel Bourada at 210-233-3704 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 Flow Meter in the manhole. Any damage done to the Flow Meter will be charged to the Contractor through a change order.



TYPICAL SANITARY SEWER/
WATER CROSSING DETAIL

NOT TO SCALE



LOCATION MAP

Sheet List Table	
Sheet Number	Sheet Title
100	OFFSITE SANITARY SEWER COVER
101	OFFSITE OVERALL SANITARY SEWER PLAN
102	SANITARY SEWER LINE G PLAN & PROFILE
103	SANITARY SEWER LINE H PLAN & PROFILE
104	SANITARY SEWER LINE H PLAN & PROFILE
105	OFFSITE SANITARY SEWER DETAILS

SEWER QUANTITIES

Onsite Sewer		
Item No.	Description	Unit Quantity
550.0	Trench Excavation Safety Protection	L.F. 2,339
848.0	8" Sanitary Sewer Pipe (0' - 6") * SDR 26	L.F. 16
848.0	8" Sanitary Sewer Pipe (6' - 8') * SDR 26	L.F. 86
848.0	8" Sanitary Sewer Pipe (8' - 10') * SDR 26	L.F. 133
848.0	8" Sanitary Sewer Pipe (10' - 12') * SDR 26	L.F. 128
848.0	8" Sanitary Sewer Pipe (12' - 14') * SDR 26	L.F. 196
848.0	8" Sanitary Sewer Pipe (14' - 16') * SDR 26	L.F. 909
847.0	12" Sanitary Sewer Pipe (12' - 14') * SDR 26	L.F. 202
847.0	12" Sanitary Sewer Pipe (14' - 16') * SDR 26	L.F. 222
847.0	12" Sanitary Sewer Pipe (16' - 18') * SDR 26	L.F. 245
848.0	12" Sanitary Sewer Pipe (18' - 20') * SDR 26	L.F. 201
852.0	Sanitary Sewer Manhole (Watertight/ Unless Specified Vented)	EA. 8
852.0	Sanitary Sewer Drop Manhole (Watertight/ Unless Specified Vented)	EA. 1
852.3	Extra Depth Manhole (>6')	V.F. 76.6
858.0	Concrete Cradle	C.Y. 2.5
866.0	Sewer Main Television Inspection	L.F. 2,339

LEGEND

EXISTING EDGE OF PAVEMENT	=====		
EXISTING SANITARY SEWER MAIN	=====	—●— E8"PVC —●—	
PROPOSED SANITARY SEWER MAIN	=====	—●— P8"SS —●—	
DIRECTION OF FLOW	=====	▶	
EXISTING WATER MAIN	-----	----- E8"PVC -----	
PROPOSED WATER MAIN	-----	----- P8"PVC -----	
SANITARY SERVICE LATERAL	=====	=====	⌘

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 THE PROPOSED TRENCH EXCAVATION, 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 SHALL BE TRAINED AND CERTIFIED IN THE PROPER USE OF ALL SAFETY EQUIPMENT IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

EAST SEWERSHED - DOS RIOS W.R.C.			
ALL SEWER PIPE TO BE SDR-26 UNLESS OTHERWISE NOTED			
Developer's Name		KING FISH DEVELOPMENT LLC	
Developer's Address		2722 WEST BITTERS RD, SUITE 106	
City	SAN ANTONIO	State	TX
		Zip	78248
Phone #	210 882-6800	Fax #	
SAWS Block Map#	200-542	Total EDU's	0
	198-542		Total Acreage 1.058
Total Linear Footage of Pipe:		8" - 1469 L.F. / 12" - 871 L.F.	
		Plat No.	
Number of Lots:	0	SAWS JOB NO.	22-1677

FINISHED GROUND/PAVEMENT (TOP OF GRADE)

5'-0" D








PROPOSED WATER MAIN

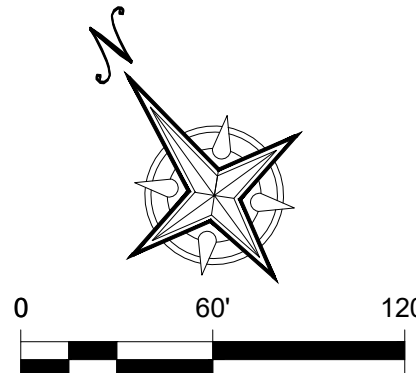
WHERE SEWER PIPE CROSSES A WATER LINE, THE SEWER SHALL BE 160PSI AND MEET THE REQUIREMENTS OF ASTM D2241 WITH ONE 20 JOINT CENTERED AT THE WATER CROSSING

SEPARATION DISTANCE TO COMPLY TO CODE REGULATION 30 TAC 290.44 (E) APPENDIX E & 30 TAC 217.53 (D) APPENDIX D - SEPARATION DISTANCE

PROPOSED SANITARY SEWER MAIN

LEGEND

EXISTING EDGE OF PAVEMENT	
EXISTING SANITARY SEWER MAIN	
PROPOSED SANITARY SEWER MAIN	
DIRECTION OF FLOW	
EXISTING WATER MAIN	
PROPOSED WATER MAIN	
SANITARY SERVICE LATERAL	



NOT TO SCALE

MATCH LINE "A" - SEE SHEET 302

OWNER: NAJDS PROPERT
(DEED NO. 20180172844)

OWNER: TRCH HIGDON CROSSING LLC
(DEED NO. 20220032679)

OWNER: TRCH HIGDON CROSSING LP
(DEED NO. 20220032879)

OWNER: BLAKE YANTIS
& JENNIFER A
(DEED NO. 20220043072)

OWNER: BLAKE YANTIS
& JENNIFER A
(DEED NO. 20220043072)

OWNER: BLAKE YANTIS
& JENNIFER A
(DEED NO. 20220043072)

OWNER: BLAKE YANTIS
& JENNIFER A
IDEDD NO. 20220043072

OWNER: KING
DEVELOPMENT
(DEED NO. 2022)

ASSOCIATED
UNIT 1 PLAT —

OWNER: KING
DEVELOPMENT
(DEED NO. 2023)

EAST SEWERSHED - DOS RIOS W.R.C.
ALL SEWER PIPE TO BE SDR-26 UNLESS OTHERWISE NOTED

Developer's Name KING FISH DEVELOPMENT LLC

Developer's Address 2722 WEST BITTERS RD, SUITE 106

City SAN ANTONIO State TEXAS Zip 78248

Phone # 210 882 6800 Fax # _____

SAWS Block Map# 200-542, 198-542 Total EDU's 0 Total Acreage 1.058

Total Linear Footage of Pipe: 8" - 1469 L.F. 12" - 871 L.F. Plat No. _____

Number of Lots: 0 SAWS JOB NO. 22-1677

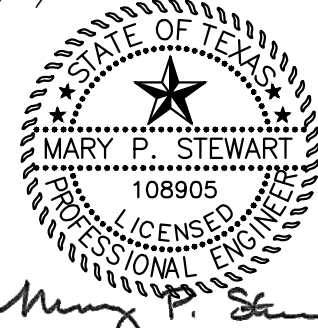
SAWS Job No. 22-1677

DESIGNED BY:	L.T.E.
DRAWN BY:	R.F.3
DATE:	07/2022
JOB NO.:	E0674101

CIVIL ENGINEERING CONSULTANTS
d/b/a. DON DURDEN, INC.
11550 IH 10 WEST, SUITE 395
SAN ANTONIO, TEXAS 78230-1037
TEL: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #F-2214 / #100410000



8/14/2023



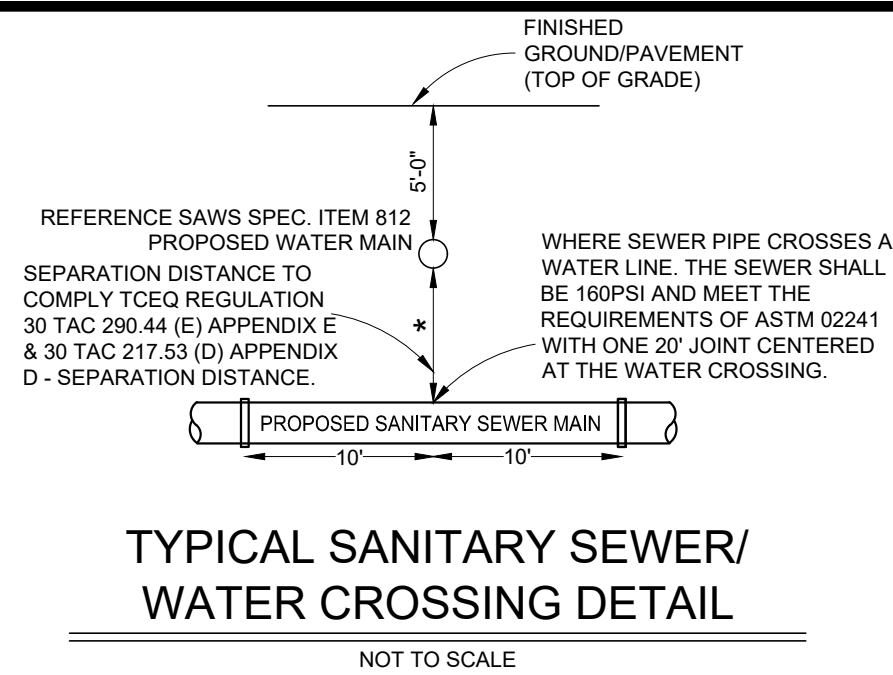
REV	DATE	DESCRIPTION
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**EASTRIDGE
SUBDIVISION
OFFSITE OVERALL SANITARY
SEWER PLAN**

SHEET NO.

101

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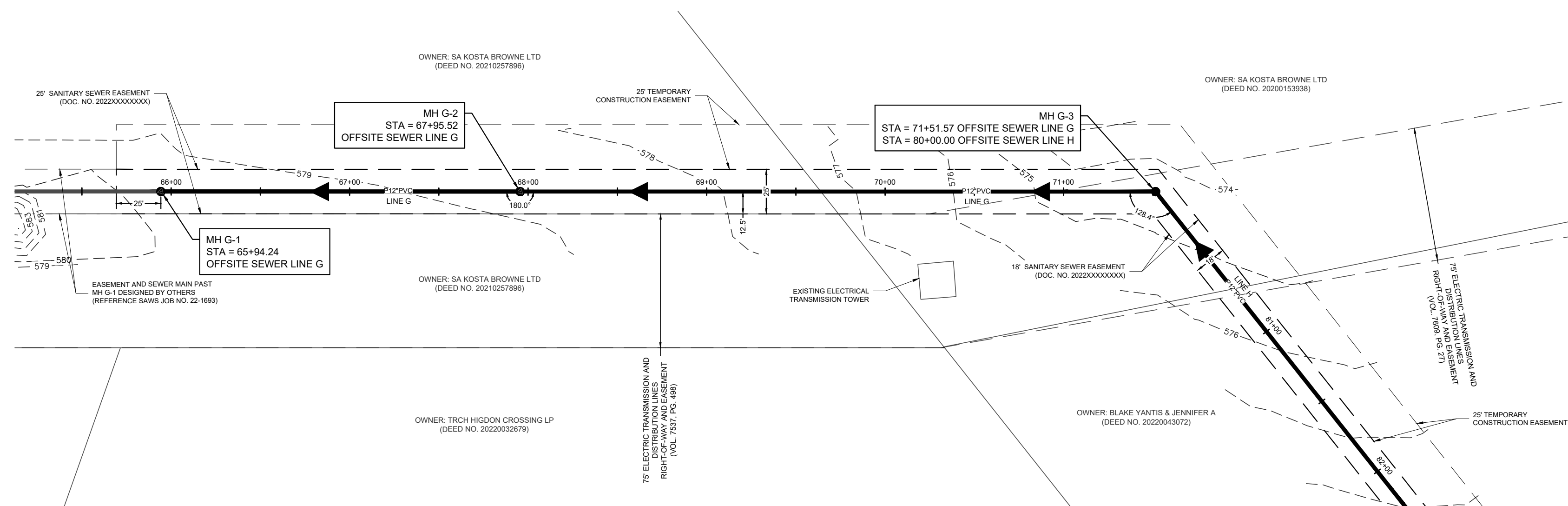
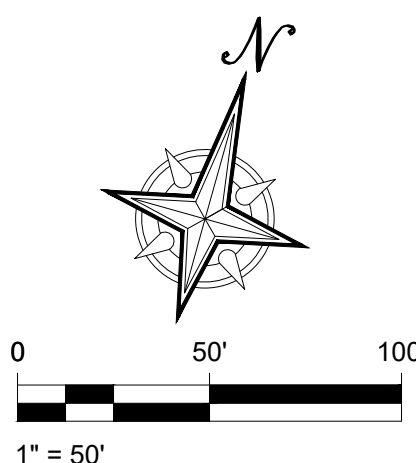
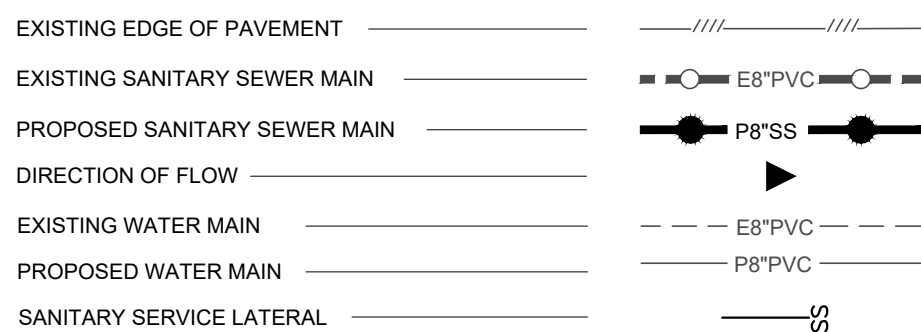
TRENCH EXCAVATION SAFETY PROTECTION

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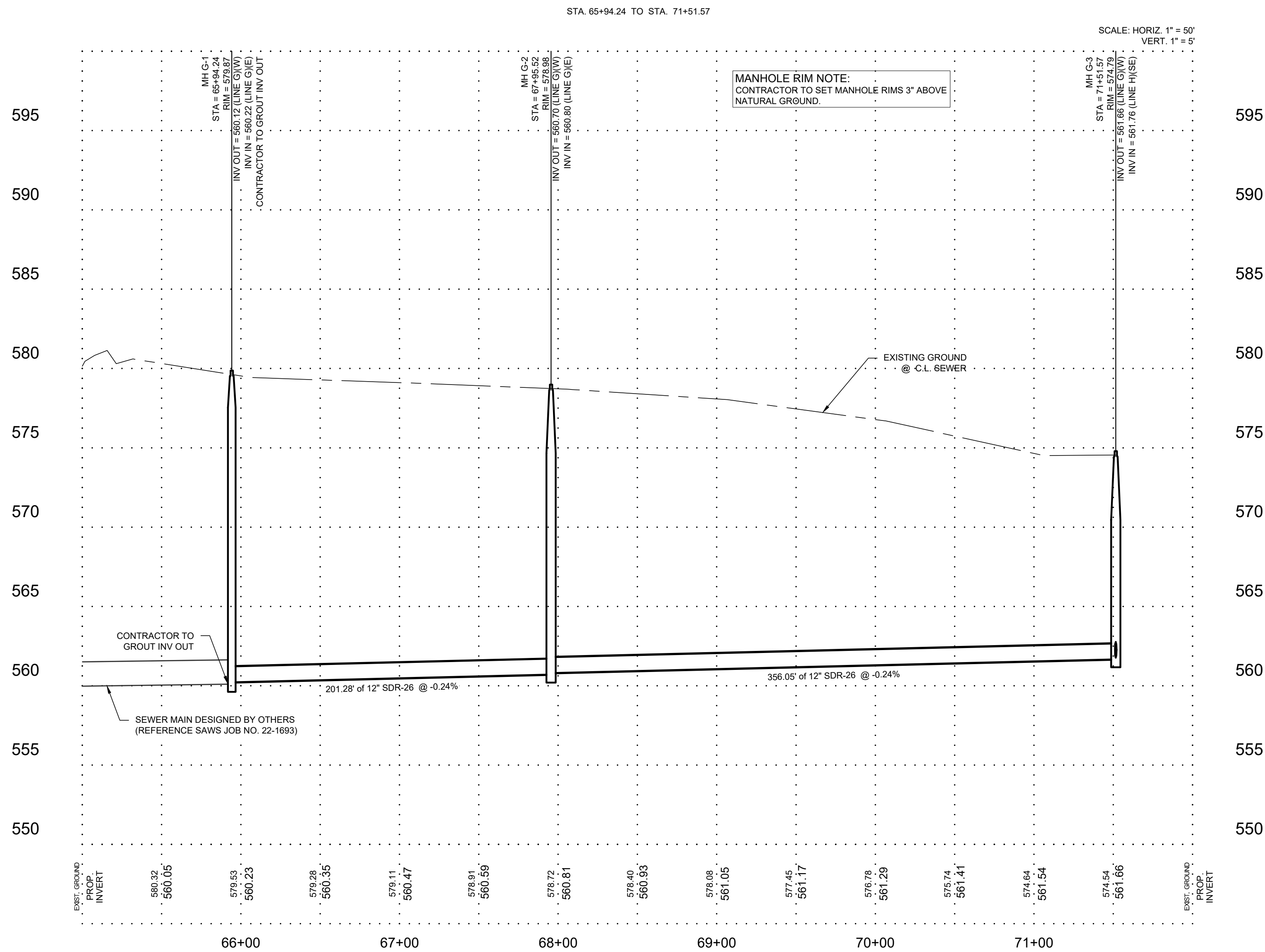
BEXAR COUNTY PERMIT NOTE:
BEXAR COUNTY RIGHT OR WAY PERMIT MUST BE
OBTAINED PRIOR TO WORKING IN EXISTING BEXAR
COUNTY RIGHT OF WAY

TREE NOTE:
CONTRACTOR TO REMOVE TREES AS NECESSARY
WITHIN SANITARY SEWER EASEMENT FOR
INSTALLATION OF SANITARY SEWER MAIN.
CONTACT ENGINEER WITH ANY QUESTIONS.

LEGEND



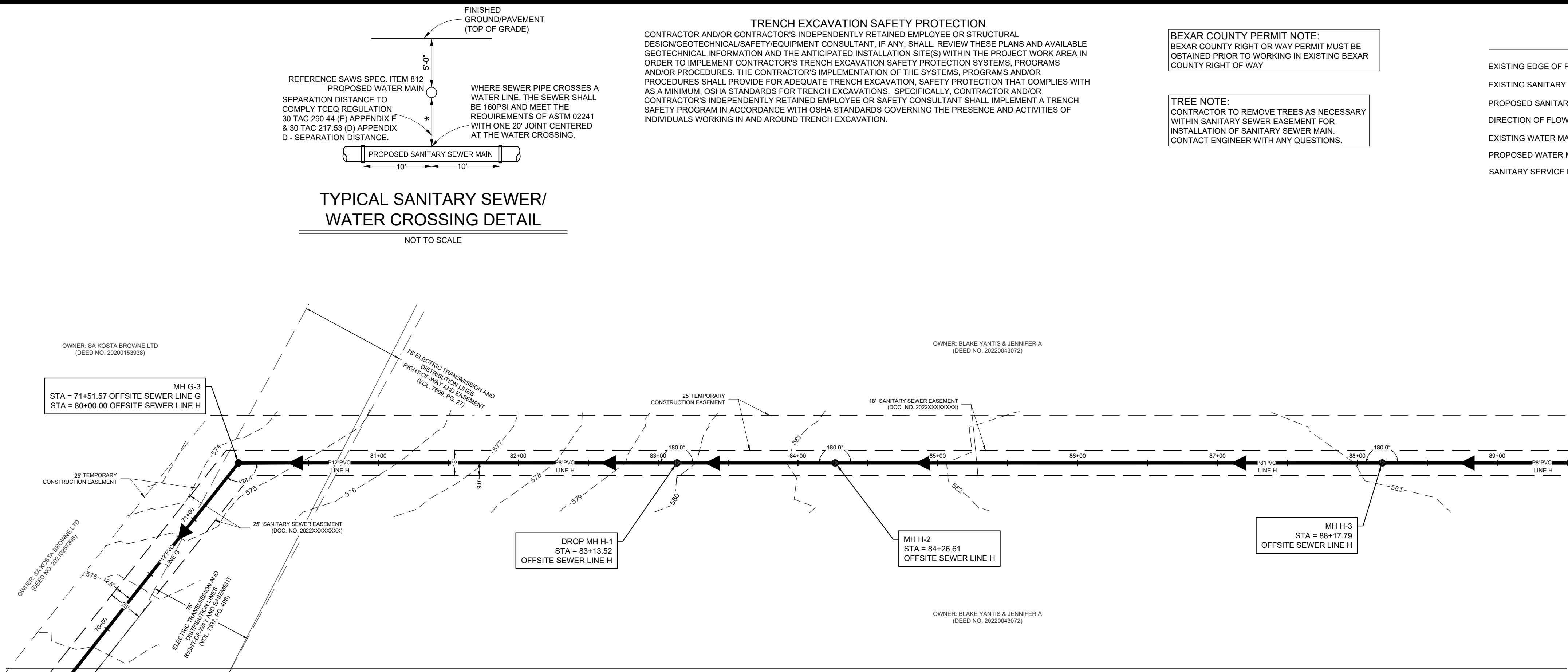
OFFSITE SANITARY SEWER LINE "G"



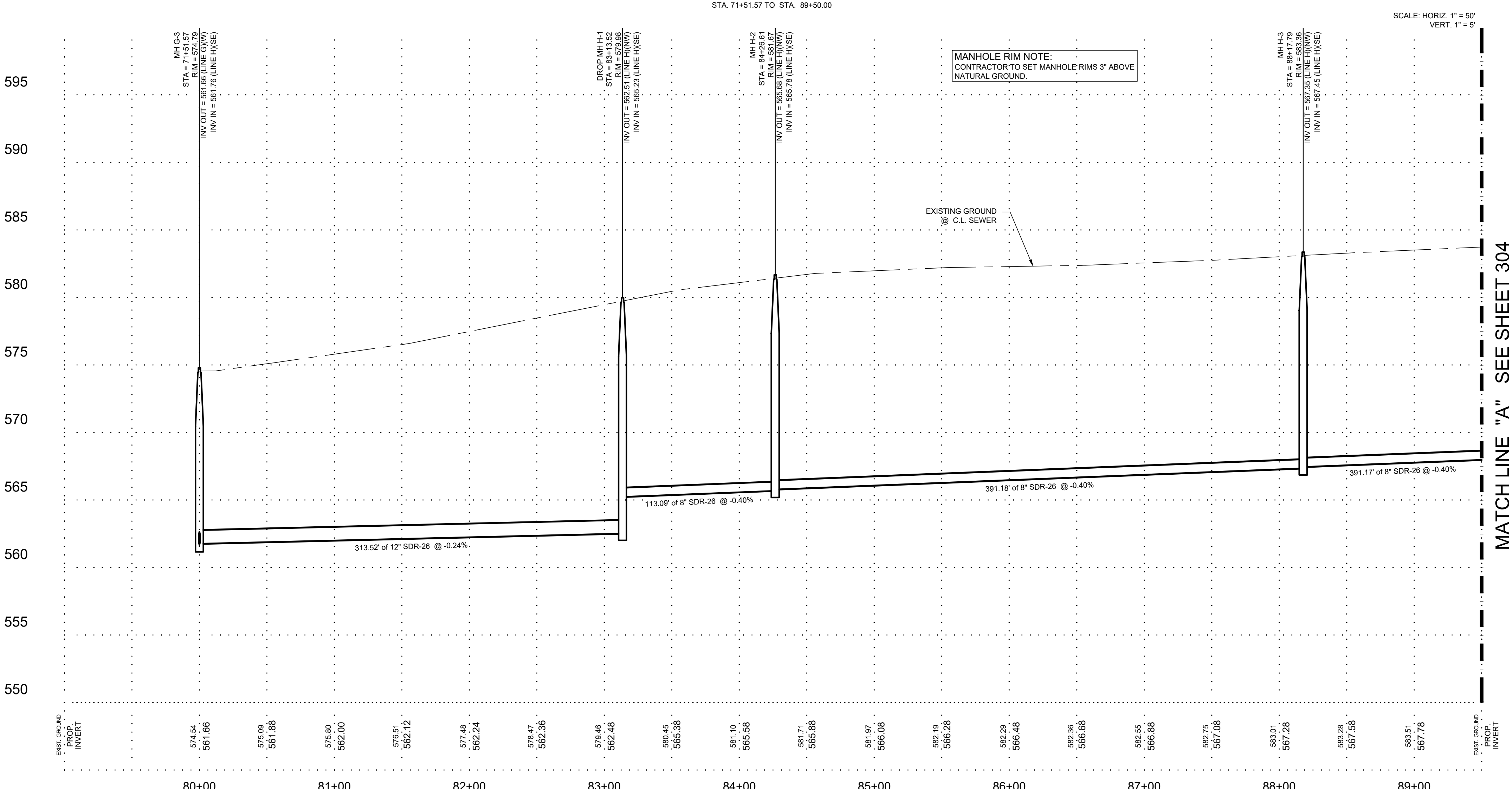
EAST SEVERSHED - DOS ROS W.R.C.
ALL SEWER PIPE TO BE SDR-26 UNLESS OTHERWISE NOTED

Developer's Name <u>KING FISH DEVELOPMENT LLC</u>			
Developer's Address <u>2722 WEST BITTERS RD, SUITE 106</u>			
City <u>SAN ANTONIO</u>	State <u>TEXAS</u>	Zip <u>78248</u>	
Phone # <u>210 862-6800</u>	Fax # _____		
SAWS Block Map# <u>200-542, 198-542</u>	Total EDUs <u>0</u>		Total Acreage <u>1.058</u>
Total Linear Footage of Pipe <u>8" - 1469 L.F. / 12" - 871 L.F.</u>			
Number of Lots: <u>0</u>		SAWS JOB NO. <u>22-1677</u>	

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OFFSITE SANITARY SEWER LINE "H"



SAWS Job No. 22-167

EAST SEWERHEAD - DOS RIOS W R C
ALL SEWER PIPE TO BE SUR-26 UNLESS OTHERWISE NOTED

Developer's Name		KING FISH DEVELOPMENT LLC			
Developer's Address		2722 WEST BITTERS RD, SUITE 106			
City	SAN ANTONIO	State	TEXAS	Zip	78248
Phone #	210 882-6600	Fax #			
SAWS Block Map		200-542-198-542	Total Eas' 0.00	Total Acreage	0.058
Total Linear Footage of Pipe: 0' 8" - 1469' Lf @ 12" - 871' Lf					
Number of Lots:		0	SAWS JOB NO.	22-1677	

**EASTRIDGE
SUBDIVISION**

SHEET NO.

103

8/14/202



CIVIL ENGINEERING CONSULTANTS
d/b/a. DON DURDEN, INC.
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TEL: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #F-2214 / #10041000

DRAWN BY: REF 3

JOB NO.: E0674101

