VERDIN SUBDIVISION, UNIT 2

SUBMITTED BY: MOY TARIN RAMIREZ ENGINEERS, LLC.

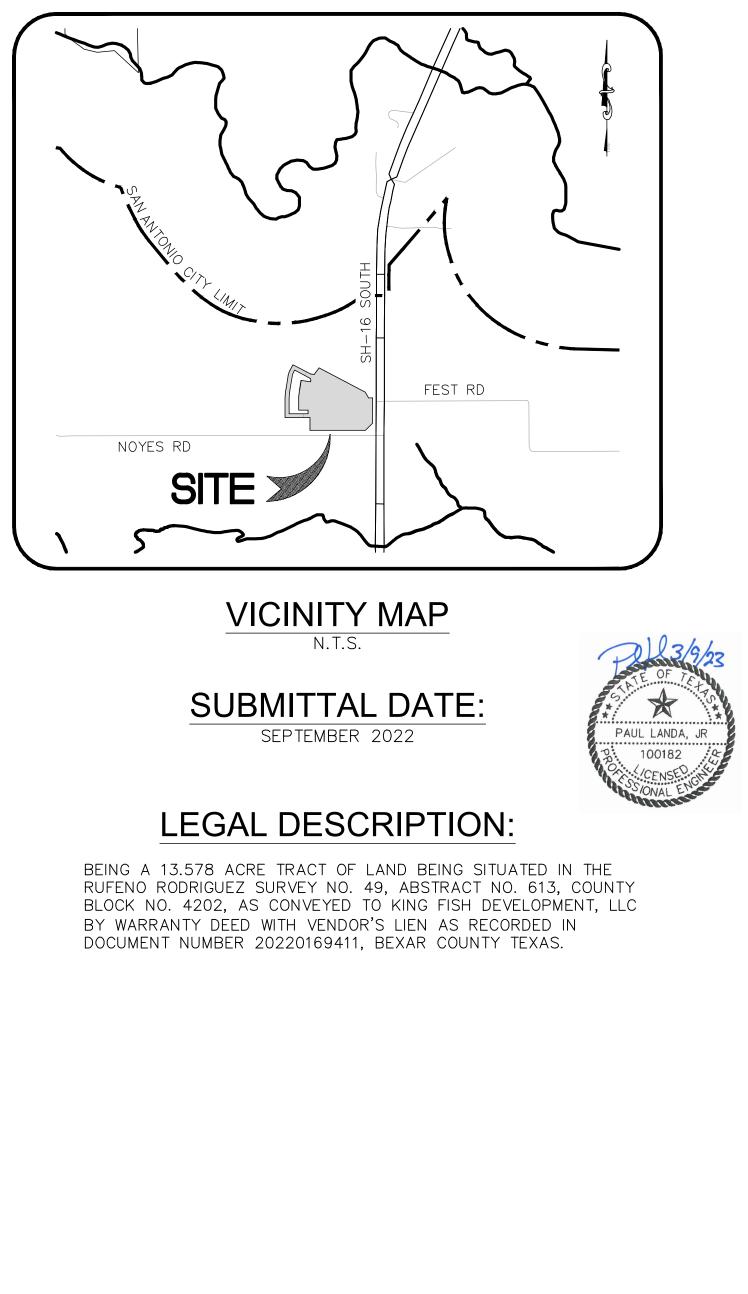
12770 CIMARRON PATH, SUITE 100 SAN ANTONIO, TEXAS 78249 TEL: (210) 698–5051 FAX: (210) 698-5085

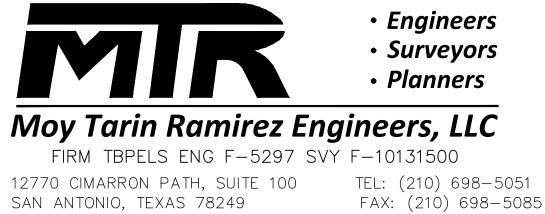
OWNER/DEVELOPER

KINGFISH DEVELOPMENT, LLC 2722 W. BITTERS RD. SUITE 106 SAN ANTONIO, TX 78248 (210) 882-6800



CONSTRUCTION PLANS FOR





LAND-PLAT- 22-11800352

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C6.0	SW3P PLAN

SW3P PLANS	
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TRENCH EXCAVATION SAFETY PROTECTION Contractor and/or Contractor's independently retained employee or structural

design/geotechnical/safety/equipment consultant, if any, shall review these plans and available geotechnical information and the anticipated installation site(s) within the project work area in order to implement Contractor's trench excavation safety protection systems, programs and/or procedures for the project described in the contract documents. The Contractor's implementation of these systems, programs and/or procedures shall provide for adequate trench excavation safety protection that comply with as a minimum, OSHA standards for trench excavations. Specifically, Contractor and/or Contractor's independently retained employee or safety consultant shall implement a trench safety program in accordance with OSHA standards governing the presence and activities of individuals working in and around trench excavation.

UTILITY GENERAL NOTES

- 1. LOCATIONS AND DEPTHS OF EXISTING UTILITIES AND DRAINAGE STRUCTURES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND DEPTHS OF ALL UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION WHETHER SHOWN ON THE PLANS OR NOT. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.
- 2. ALL EXCAVATION IS UNCLASSIFIED. THERE IS NO ADDITIONAL PAYMENT FOR ROCK EXCAVATION.
- 3. ALL SPOIL AND UNUSABLE MATERIAL FROM THIS PROJECT SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AT NO ADDITIONAL
- EXPENSE. 4. CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS,
- TESTS, APPROVALS AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THE PROJECT. 5. CONSTRUCTION STAKING TO BE PROVIDED BY CONSULTANT IS AS
- FOLLOWS:
- A. STREET CENTERLINE STAKING FOR CLEARING. B. STREET STAKING (ONE SIDE) FOR STREET EXCAVATION AND WATER
- MAIN INSTALLATION. SEWER STAKING AT 100-FT INTERVALS.
- STAKING FOR WATER SERVICES. STAKING FOR DRAINAGE CHANNELS.
- FINAL STREET STAKING. G. METER BOX STAKING.
- H. CPS STAKING. I. SETTING OF LOT CORNERS.

CPS NOTES:

- 1. CPS TO SUPPLY ALL ELECTRIC CONDUITS FOR TRENCH AS FOLLOW: PRIMARY - 2 1/2" HDPE SCHEDULE 40 SECONDARY – 3" PVC SCHEDULE 40
- SERVICE STUBS 2 1/2" PVC SCHEDULE 40
- 6" P.V.C. SCHEDULE 80 WILL BE REQUIRED FOR C.P.S. UTILITIES CROSSINGS WHEN DRAIN OR STREET CONSTRUCTION PRECEDES UTILITY INSTALLATION.
- 3. 4" P.V.C. SCHEDULE 40 WILL BE REQUIRED FOR UNDERGROUND TELEPHONE AND CABLE T.V. IF ABOVE APPLIES.
- 4. P.V.C. CONDUIT WITH 90° SWEEPS TO 6" ABOVE GRADE WITH CAP.

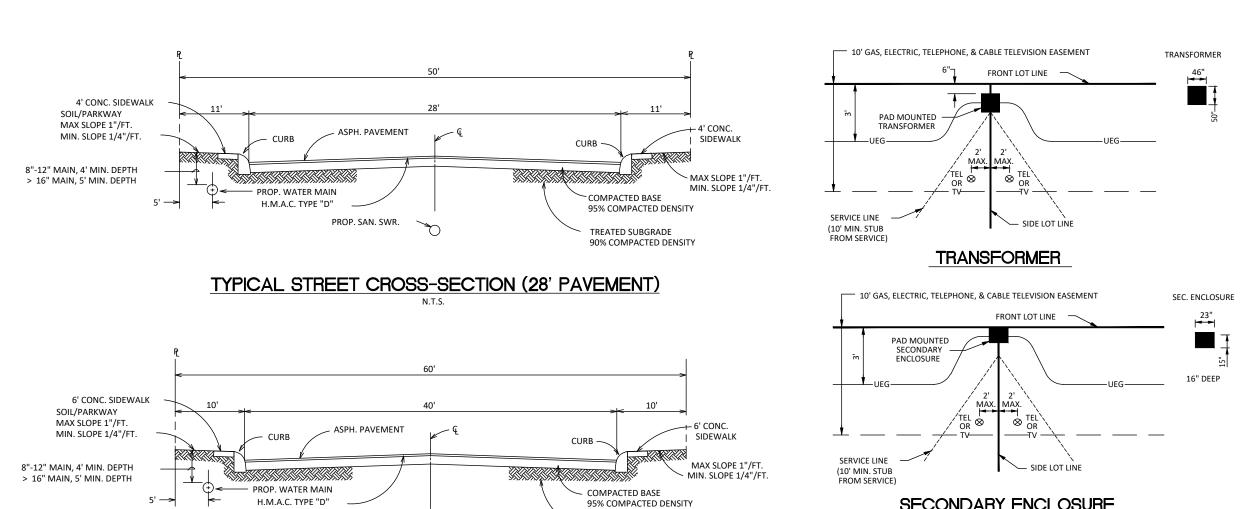
NOTE :

TELEPHONE AND CABLE LINES TO GO IN JOINT TRENCH WITH CITY PUBLIC SERVICE.

LEGEND

EXISTING WATER MAIN	E8"W
PROPOSED WATER MAIN	
PROPOSED FIRE HYDRANT	
EXISTING FIRE HYDRANT	
PROPOSED GATE VALVE	
EXISTING GATE VALVE	
PROPOSED SANITARY SEWER MAIN	
EXISTING SANITARY SEWER MAIN	E8"SS
EXISTING OVERHEAD ELECTRIC	OHE
EXISTING UNDERGROUND ELECTRIC	UE
EXISTING UNDERGROUND TELEPHONE	UGT
EXISTING STREET LIGHT	\
OFFICIAL PUBLIC RECORDS OF BEXAR COUNTY, TEXAS	D.P.R.B.C.T.
OFFICIAL PUBLIC RECORDS OF MEDINA COUNTY, TEXAS	O.P.R.M.C.T.
PROPOSED STREET LIGHT UG, 100W AND SINGLE ARM	×
PROPOSED STREET LIGHT UG, 250W AND SINGLE ARM	*
EXISTING POWER POLE	PP
EXISTING SECONDARY ENCLOSURE	Ø
PROPOSED SECONDARY ENCLOSURE	Ø
PROPOSED POWER POLE	PP
PROPOSED TRANSFORMER	
PROPOSED WATER SERVICE	
PROPOSED SERVICE LATERAL WITH ONE-WAY CLEANOU	Το
EXISTING TRANSFORMER	
EXISTING IRRIGATION CONTROL VALVE	8
EVISTING WATER METER	





TREATED SUBGRADE

90% COMPACTED DENSITY

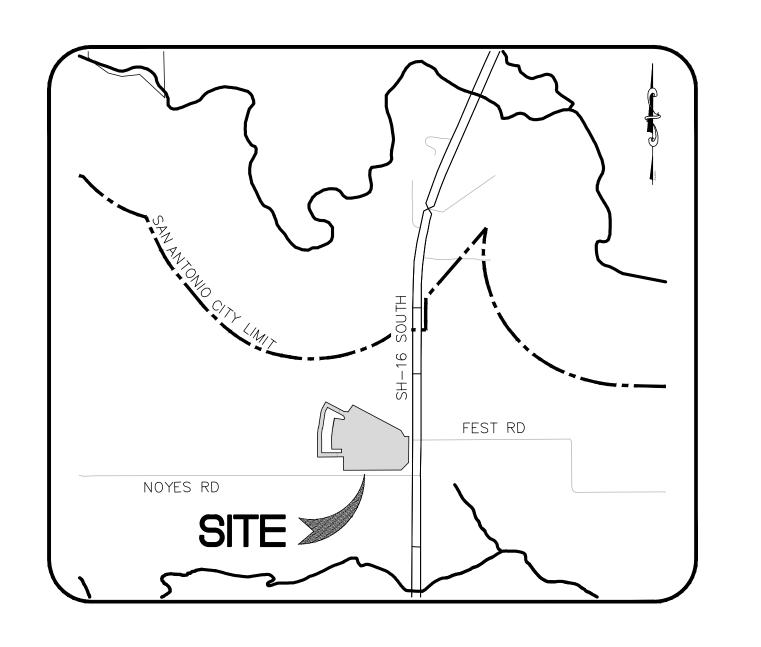
TYPICAL STREET CROSS-SECTION (40' PAVEMENT)

PROP. SAN. SWR.

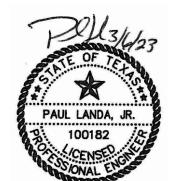
BEXAR COUNTY

CONSTRUCTION PLANS FOR

VERDIN SUBDIVISION, UNIT 2 UTILITY IMPROVEMENTS - E8"W -----



SUBMITTAL DATE:



MARCH 2021

LEGAL DESCRIPTION:

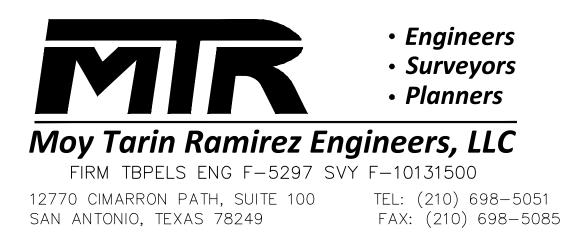
BEING A 13.578 ACRE TRACT OF LAND BEING SITUATED IN THE RUFENO RODRIGUEZ SURVEY NO. 49, ABSTRACT NO. 613, COUNTY BLOCK NO. 4202, AS CONVEYED TO KING FISH DEVELOPMENT, LLC BY WARRANTY DEED WITH VENDOR'S LIEN AS RECORDED IN DOCUMENT NUMBER 20220169411, BEXAR COUNTY TEXAS.

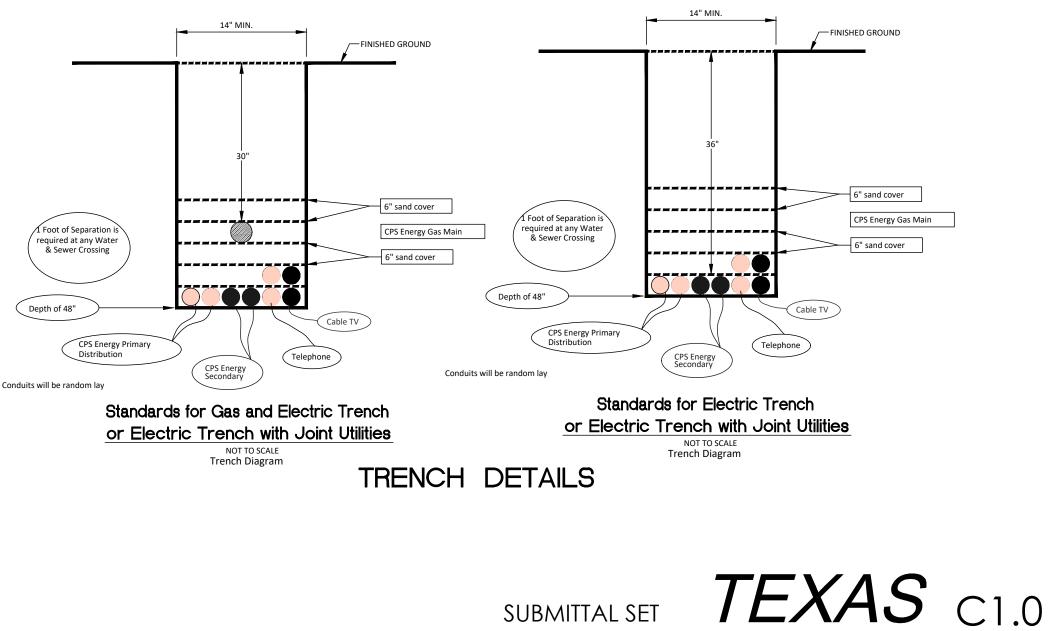
SECONDARY ENCLOSURE FRONT LOADED

NOTE TO CONTRACTOR:

BY THE ACT OF SUBMITTING A BID FOR THIS PROPOSED CONTRACT, THE BIDDER WARRANTS THAT THE BIDDER, AND ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS HE INTENDS TO USE HAVE CAREFULLY AND THOROUGHLY REVIEWED THE DRAWINGS, SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS AND HAVE FOUND THEM COMPLETE AND FREE FROM ANY AMBIGUITIES AND SUFFICIENT FOR THE PURPOSE INTENDED. THE BIDDER FURTHER WARRANTS THAT TO THE BEST OF HIS OR HIS SUBCONTRACTORS' AND MATERIAL SUPPLIERS' KNOWLEDGE, ALL MATERIALS AND PRODUCTS SPECIFIED OR INDICATED HEREIN ARE ACCEPTABLE FOR ALL APPLICABLE CODES AND AUTHORITIES.

THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS HAS BEEN BASED UPON RECORD INFORMATION ONLY AND MAY NOT MATCH LOCATIONS AND/OR DEPTHS AS CONSTRUCTED. THE CONTRACTOR SHALL CONTACT EACH INDIVIDUAL UTILITY, FOR ÁSSISTANCE IN DETERMINING EXISTING UTILITY LOCATIONS AND DEPTHS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL UTILITY CROSSINGS PRIOR TO BEGINNING ANY CONSTRUCTION.





LAND-PLAT- 22-11800352

SUBMITTED BY: MOY TARIN RAMIREZ ENGINEERS, LLC. 12770 CIMARRON PATH, SUITE 100 SAN ANTONIO, TEXAS 78249 TEL: (210) 698-5051 FAX: (210) 698-5085

OWNER/DEVELOPER

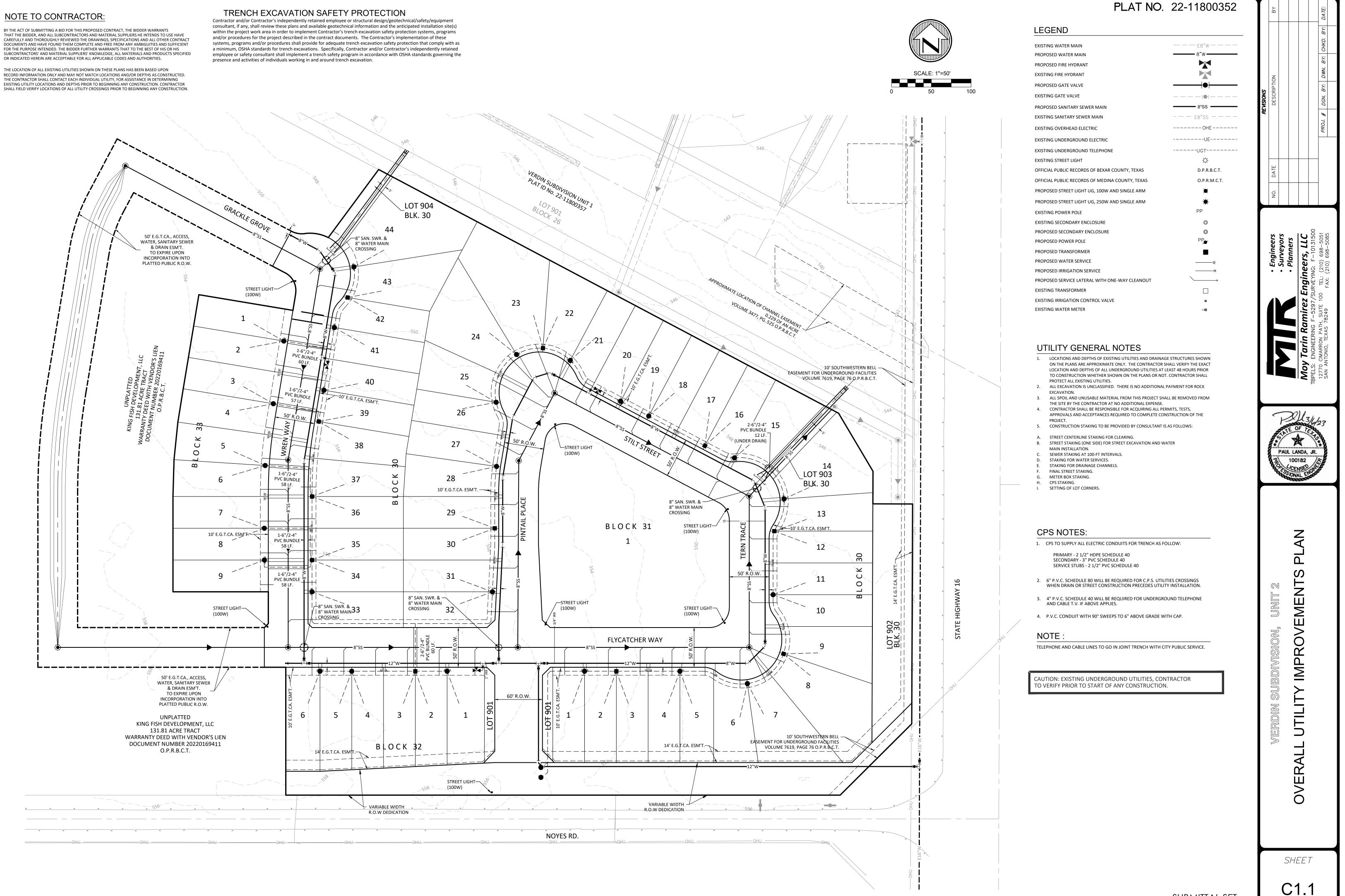
KINGFISH DEVELOPMENT, LLC 2722 W. BITTERS RD. SUITE 106 SAN ANTONIO, TX 78248 (210) 882-6800

SHEET INDEX

Sheet Number	Sheet Title
C1.0	UTILITY COVER
C1.1	UTILITY OVERALL

NOTE TO CONTRACTOR

DOCUMENTS AND HAVE FOUND THEM COMPLETE AND FREE FROM ANY AMBIGUITIES AND SUFFICIENT FOR THE PURPOSE INTENDED. THE BIDDER FURTHER WARRANTS THAT TO THE BEST OF HIS OR HIS SUBCONTRACTORS' AND MATERIAL SUPPLIERS' KNOWLEDGE, ALL MATERIALS AND PRODUCTS SPECIFIED OR INDICATED HEREIN ARE ACCEPTABLE FOR ALL APPLICABLE CODES AND AUTHORITIES.



SAWS CONSTRUCTION NOTES COUNTER PERMIT AND GENERAL CONSTRUCTION PERMIT JANUARY 2022

General Section

- 1. All materials and construction procedures within the scope of this contract shall be approved by the San Antonio Water System (SAWS) and comply with the Plans, Specifications, General Conditions and with the following as applicable: A. Current Texas Commission on Environmental Quality (TCEQ) "Design Criteria for Domestic Wastewater System", Texas Administrative Code (TAC) Title 30 Part 1 Chapter 217 and "Public Drinking Water", TAC Title 30 Part 1 Chapter 290.
- B. Current TXDOT "Standard Specifications for Construction of Highways, Streets and Drainage".
- C. Current "San Antonio Water System Standard Specifications for Water and Sanitary Sewer Construction". D. Current City of San Antonio "Standard Specifications for Public Works Construction".
- E. Current City of San Antonio "Utility Excavation Criteria Manual" (UECM).
- 2. The contractor shall not proceed with any pipe installation work until they obtain a copy of the approved Counter Permit or General Construction Permit (GCP) from the consultant and has been notified by SAWS Construction Inspection Division to proceed with the work and has arranged a meeting with the inspector and consultant for the work requirements. Work completed by the contractor without an approved Counter Permit and/or a GCP will be subject to removal and replacement at the expense of the contractors and/or the developer.
- 3. The Contractor shall obtain the SAWS Standard Details from the SAWS website, http://www.saws.org/business_center/specs. Unless otherwise noted within the design plans.
- 4. The Contractor is to make arrangements with the SAWS Construction Inspection Division at
- (210) 233-2973, on notification procedures that will be used to notify affected home residents and/or property owners 48
- hours prior to beginning any work. 5. Location and depth of existing utilities and service laterals shown on the plans are understood to be approximate. Actual locations and depths must be field verified by the Contractor at least 1 week prior to construction. It shall be the Contractor's responsibility to locate utility service lines as required for construction and to protect them during construction
- at no cost to SAWS 6. The Contractor shall verify the exact location of underground utilities and drainage structures at least 1-2 weeks prior to construction whether shown on plans or not. Please allow up to 7 business days for locates requesting pipe location markers on SAWS facilities. The following contact information are supplied for verification purposes:
- SAWS Utility Locates: http://www.saws.org/Service/Locates
- COSA Drainage (210) 207-0724 or (210) 207-6026
- COSA Traffic Signal Operations (210) 206-8480 COSA Traffic Signal Damages (210) 207-3951
- 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 if damages are made as a result of the project's construction.
- 8. All work in Texas Department of Transportation (TxDOT) and/or Bexar County right-of-way shall be done in accordance with respective construction specifications and permit requirements.
- 9. The Contractor shall comply with City of San Antonio or other governing municipality's tree ordinances when excavating near trees 10. The Contractor shall not place any waste materials in the 100-year Flood Plain without first obtaining an approved Flood
- Plain Permit. 11. Holiday Work: Contractors will not be allowed to perform SAWS work on SAWS recognized holidays. Request should be sent to constworkreq@saws.org.
- Weekend Work: Contractors are required to notify the SAWS Inspection Construction Department 48 hours in advance to request weekend work. Request should be sent to constworkreg@saws.org. Any and all SAWS utility work installed without holiday/weekend approval will be subject to be uncovered for proper
- inspection. 12. Compaction note (Item 804): The contractor shall be responsible for meeting the compaction requirements on all trench
- backfill and for paying for the tests performed by a third party. Compaction tests will be done at one location point randomly selected, or as indicated by the SAWS Inspector and/or the test administrator, per each 12-inch loose lift per 400 linear feet at a minimum. This project will not be accepted and finalized by SAWS without this requirement being met and verified by providing all necessary documented test results.
- 13. A copy of all testing reports shall be forwarded to SAWS Construction Inspection Division.

Sewer Notes

- 1. 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
- Identify the source of the SSO and notify SAWS Emergency Operations Center (EOC) immediately at (210)
- 233-2014. Provide the address of the spill and an estimated volume or flow. Attempt to eliminate the source of the SSO.
- 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.
- Clean the affected sewer mains and remove any debris.

Meet all post-SSO requirements as per the EPA Consent Decree, including line cleaning and televising the affected sewer mains (at SAWS direction) within 24 hours. Should the Contractor fail to address an SSO immediately and to SAWS satisfaction, they will be responsible for all costs

incurred by SAWS, including any fines from EPA, TCEQ and/or any other Federal, State or Local Agencies. 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.

2. If bypass pumping is required, the Contractor shall perform such work in accordance with SAWS Standard Specification for Water and Sanitary Sewer Construction, Item No. 864, "Bypass

- 3. Prior to tie-ins, any shutdowns of existing force mains of any size must be coordinated with the SAWS Construction Inspection Division at (210) 233-2973 at least one week 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.
- 4. Sewer pipe where water line crosses shall be 160 psi and meet the requirements of ASTM D2241, TAC 217.53 and TCEQ 290.44(e)(4)(B). Contractor shall center a 20' joint of 160 psi pressure rated PVC at the proposed water crossing.
- 5. 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) 6. Spills, Overflows, or Discharges of Wastewater: All spills, overflows, or discharges of wastewater, recycled water, petroleum products, or chemicals must be reported immediately to the SAWS Inspector assigned to the Counter Permit or General Construction Permit (GCP). This requirement applies to every spill, overflow, or discharge regardless of size.

ADDITIONAL SEWER NOTES

98% COMPACTION NOTE: THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING 98% COMPACTION ON A THIRD PARTY. COMPACTION TESTS WILL BE DONE AT ONE LOCATION POINT RANDOMLY SELECTED, OR AS INDICATED BY THE SAWS INSPECTOR/TEST ADMINISTRATOR, PER EACH 12-INCH LOOSE LIFT PER 400 LINEAR FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED AND FINALIZED BY SAWS WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY PROVIDING ALL NECESSARY DOCUMENTED TEST RESULTS.

NOTES

- 1. SANITARY SEWER LATERALS TO BE LOCATED AS SHOWN ON THE SANITARY SEWER PLANS.
- 2. PAY CUTS FOR SANITARY SEWERS LOCATED IN STREETS ARE ESTIMATED TO THE FINISHED SUBGRADE ELEVATION. PAY CUTS ARE TO EXISTING GROUND IN UNPAVED AREAS.
- 3. EXTEND ALL SANITARY SEWER LATERALS TO THE PROPERTY LINE OR TO THE EASEMENT LINE AS INDICATED. ALL LATERALS ARE 35' LONG UNLESS OTHERWISE NOTED.
- SANITARY SEWER LINES AND LATERALS WILL BE PVC SDR 26 ASTM D 3034 UNLESS OTHERWISE NOTED ON PLAN AND PROFILE SHEETS.
- 5. SDR FITTINGS WILL MATCH SDR SEWER MAIN, NO SEPARATE PAY ITEM.
- 6. ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE UPGRADIENT SIDE OF THE SEWER TRENCH THUS ALLOWING THE TRENCH TO INTERCEPT ANY SILT CONTAMINATED RUNOFF.
- 7. QUANTITIES ARE BASED ON CURRENT SAWS SPECIFICATIONS.
- 8. ALL MANHOLES TO HAVE WATERTIGHT RING AND COVERS.
- 9. ALL MANHOLES TO BE CONCRETE RING ENCASED 10. MANHOLES TO BE VENTED AS SHOWN ON THE SANITARY SEWER PLANS.
- 11. AN "*" DENOTES AN EXISTING TEE.
- 12. ALL SANITARY SEWER LATERALS SHALL HAVE A MIN. 2.0 THE PROPERTY LINE.

13. MINIMUM COVER FROM TOP OF SANITARY SEWER LATERALS TO TOP OF CURB WILL BE: A. IF LATERALS DO NOT CROSS WATER MAINS, 5' COVER B. IF LATERALS CROSS WATER MAIN,

 			,
WATER	MAIN	COVER	
6"	5.5'		
8"	5.7'		
12"	6.0'		
16"	7.4'		

14. ALL MANHOLE OPENINGS SHALL BE 30".

IN THE VICINITY OF WATER MAINS

- I. WHERE A SEWER MAIN CROSSES OVER A WATER MAIN AND THE SEPARATION DISTANCE IS LESS THAN NINE (9) FEET, ALL PORTIONS OF THE SEWER MAIN WITHIN NINE FEET (9) OF THE WATER LINE SHALL BE CONSTRUCTED USING 150 PSI PRESSURE RATED DUCTILE IRON, CAST IRON OR PVC PIPE AND JOINED WITH MATERIAL. A SECTION OF 150 PSI PRESSURE RATED PIPE AT LEAST EIGHTEEN (18) FEET IN LENGTH MAY BE CENTERED ON THE WATER MAIN IN LIEU OF PIPE CONNECTION REQUIREMENTS. (NO SEPARATE PAY ITEM)
- II. WHERE A SEMI-RIGID OR RIGID SEWER MAIN CROSSES UNDER A WATER MAIN AND THE SEPARATION DISTANCE IS LESS THAN NINE FEET BUT GREATER THAN TWO WITHIN NINE FEET OF THE WATER MAIN.
- CAST IRON, DUCTILE IRON, OR PVC WITH A MINIMUM PRESSURE RATING OF 150 PIPE CENTERED ON THE WATER MAIN, SHALL BE PLACED NO CLOSER THAN SIX ON THE WATER MAIN IN LIEU OF PIPE CONNECTION REQUIREMENTS. (NO SEPARATE PAY ITEM)
- IS LESS THAN NINE FEET, THE SEWER MAIN SHALL BE BELOW THE WATER MAIN, NINE FEET BEYOND THE POINT OF CONFLICT, SHALL MAINTAIN A MINIMUM CAST IRON OR DUCTILE IRON MATERIAL.
- FEET TO WATER MAINS.

NOTE TO CONTRACTOR:

BY THE ACT OF SUBMITTING A BID FOR THIS PROPOSED CONTRACT, THE BIDDER WARRANTS THAT THE BIDDER. AND ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS HE INTENDS TO USE HAVE CAREFULLY AND THOROUGHLY REVIEWED THE DRAWINGS, SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS AND HAVE FOUND THEM COMPLETE AND FREE FROM ANY AMBIGUITIES AND SUFFICIENT FOR THE PURPOSE INTENDED. THE BIDDER FURTHER WARRANTS THAT TO THE BEST OF HIS OR HIS

SUBCONTRACTORS' AND MATERIAL SUPPLIERS' KNOWLEDGE, ALL MATERIALS AND PRODUCTS SPECIFIED OR INDICATED HEREIN ARE ACCEPTABLE FOR ALL APPLICABLE CODES AND AUTHORITIES.

RECORD INFORMATION ONLY AND MAY NOT MATCH LOCATIONS AND/OR DEPTHS AS CONSTRUCTED. THE CONTRACTOR SHALL CONTACT FACH INDIVIDUAL UTILITY, FOR ASSISTANCE IN DETERMINING EXISTING UTILITY LOCATIONS AND DEPTHS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL UTILITY CROSSINGS PRIOR TO BEGINNING ANY CONSTRUCTION.

BEXAR COUNTY

- Pumping".

CONSTRUCTION PLANS FOR

VERDIN SUBDIVISION, UNIT 2 SANITARY SEWER IMPROVEMENTS

ALL TRENCH BACKFILL AND FOR PAYING FOR THE TESTS TO BE PERFORMED BY

CRITERIA FOR SEWER MAIN CONSTRUCTION

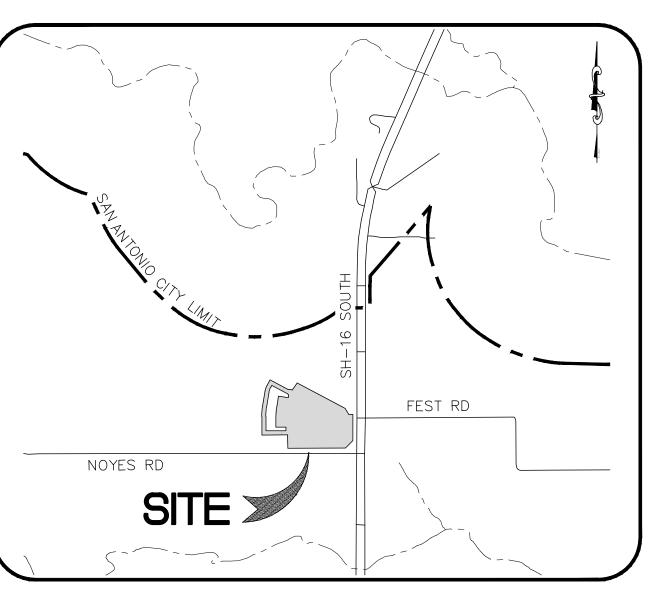
EQUALLY PRESSURE RATED PRESSURE RING GASKET CONNECTIONS OR CORROSION PROTECTED MECHANICAL COUPLING DEVICES OF A CAST IRON OR DUCTILE IRON

FEET, THE INITIAL BACKFILL SHALL BE CEMENT STABILIZED SAND (TWO OR MORE BAGS OF CEMENT PER CUBIC YARD OF SAND) FOR ALL SECTIONS OF THE SEWER

III, WHERE A SEWER MAIN CROSSES UNDER A WATER MAIN AND THE SEPARATION DISTANCE IS LESS THAN TWO FEET, THE SEWER MAIN SHALL BE CONSTRUCTED OF PSI WITHIN NINE FEET OF THE WATER MAIN, SHALL HAVE A SEGMENT OF SEWER INCHES BETWEEN OUTER DIAMETERS, AND SHALL BE JOINED WITH PRESSURE RING GASKET CONNECTIONS OR CORROSION PROTECTED MECHANICAL COUPLING DEVICES OF A CAST IRON OR DUCTILE IRON MATERIAL. A SECTION OF 150 PSI PRESSURE RATED PIPE OF A LENGTH GREATER THAN EIGHTEEN (18) FEET MAY BE CENTERED

IV. WHERE A SEWER MAIN PARALLELS A WATER MAIN AND THE SEPARATION DISTANCE SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON, OR PVC WITH A MINIMUM PRESSURE RATING OF 150 PSI FOR BOTH PIPE AND JOINTS FOR A DISTANCE OF SEPARATION DISTANCE BETWEEN OUTER DIAMETERS OF TWO FEET VERTICALLY AND FOUR FEET HORIZONTALLY, AND SHALL BE JOINED WITH PRESSURE RING GASKET CONNECTIONS OR CORROSION PROTECTED MECHANICAL COUPLING DEVICES OF A

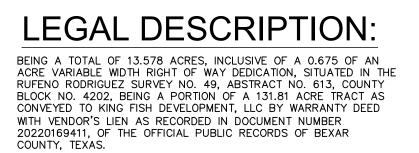
SANITARY SEWER MANHOLES SHALL NOT BE INSTALLED ANY CLOSER THAN NINE



VICINITY MAP N.T.S.

SUBMITTAL DATE: JULY 2022

REVISION DATE: OCTOBER 2024





SHEET INDEX

SHEET NO.	TITLE	
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C2.3	LINE K	PLAN AND F
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C2.5	LINE N	PLAN AND F
C2.6	LINE P	PLAN AND F
C2.7	SEWER	DETAILS



THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS HAS BEEN BASED UPON

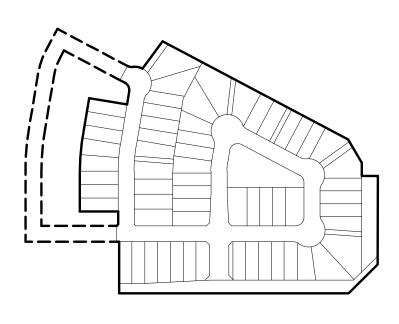
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SUBMITTED BY:

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OWNER/DEVELOPER

KINGFISH DEVELOPMENT, LLC 2722 W. BITTERS RD. SUITE 106 SAN ANTONIO, TX 78248 (210) 882-6800



INDEX MAP

ESTIMATED SEWER QUANTITIES

ITEM	DESCRIPTION	UNIT	EST/QTY
1	TIE INTO EXISTING SANITARY SEWER MAIN	E.A.	1
2	TRENCH EXCAVATION SAFETY PROTECTION	L.F.	4,844
3	8" SANITARY SEWER PIPE, SDR-26 (0'-6')	L.F.	10
4	8" SANITARY SEWER PIPE, SDR-26 (6'-10')	L.F.	1,201
5	8" SANITARY SEWER PIPE, SDR-26 (10'-14')	L.F.	1,378
6	STANDARD SANITARY SEWER MANHOLE	EA.	7
7	DROP SANITARY SEWER MANHOLE	EA.	3
8	EXTRA DEPTH MANHOLE	V.F.	33.6
9	VERTICAL STACK	V.F.	108.9
10	6" SANITARY SEWER LATERALS, SDR-26	L.F.	2,255
11	8" SEWER MAIN TELEVISION INSPECTION	L.F.	2,589

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. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF 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.

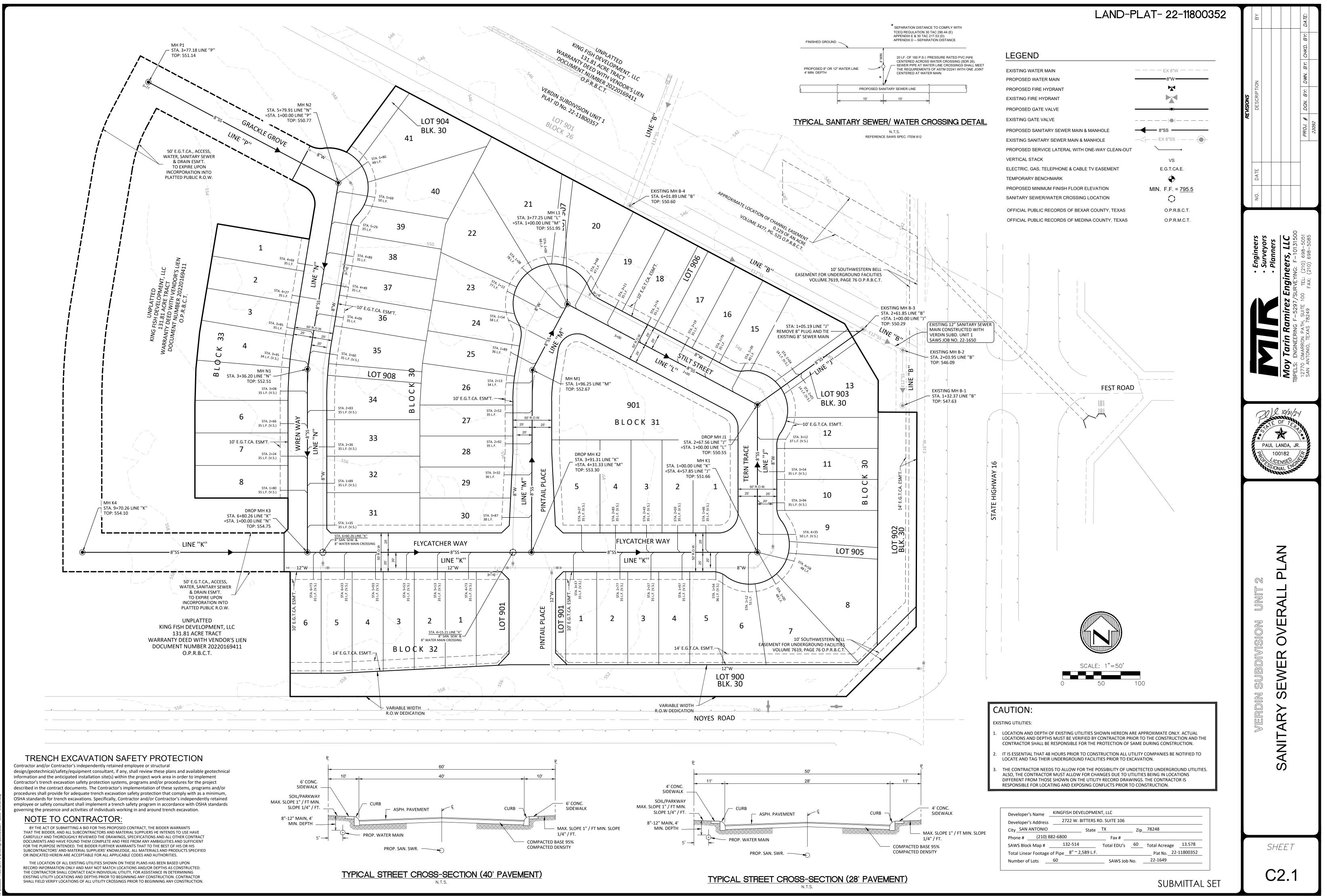
PLAN AND PROFILE PROFILE PROFILE PROFILE PROFILE

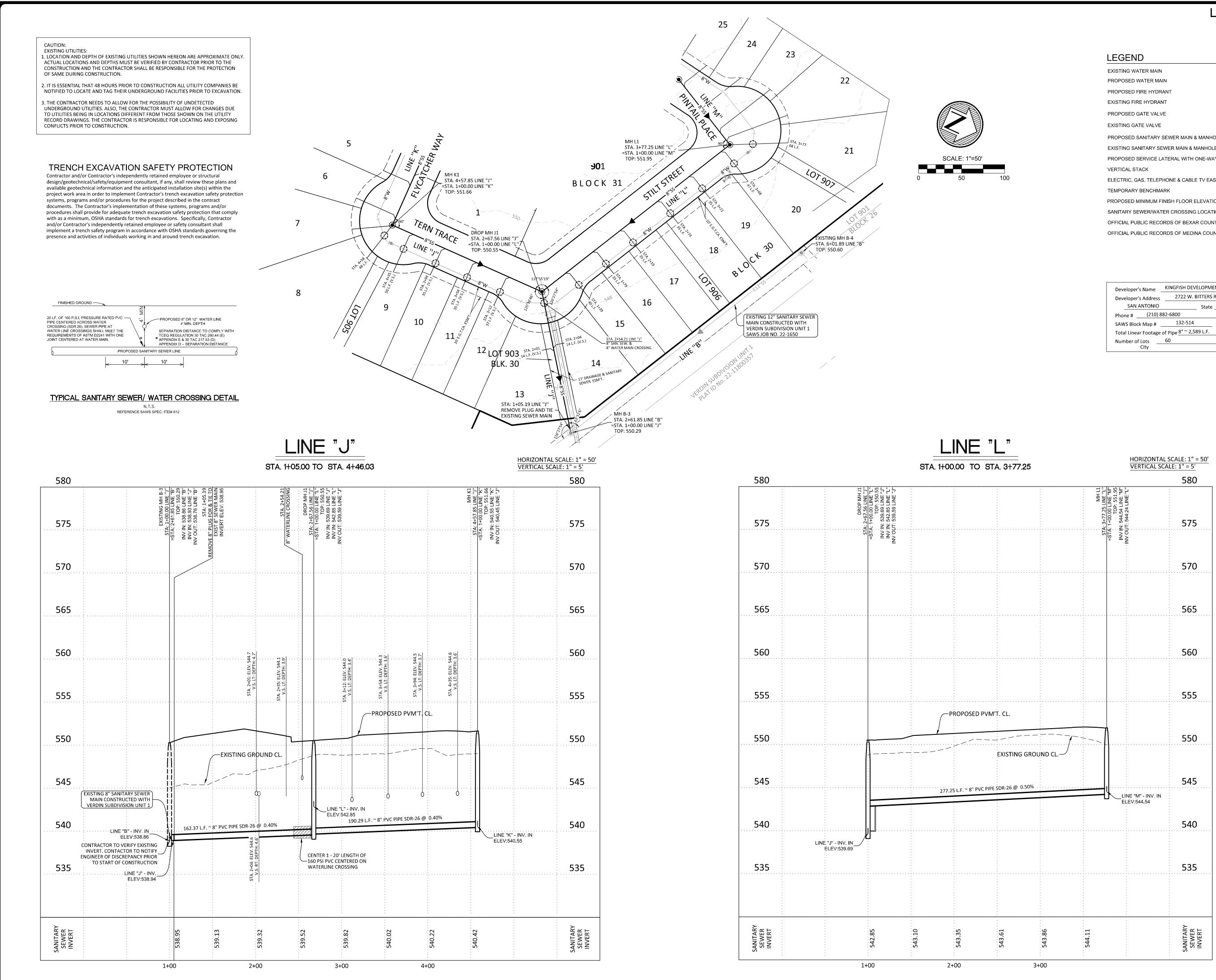
TRENCH EXCAVATION SAFETY PROTECTION

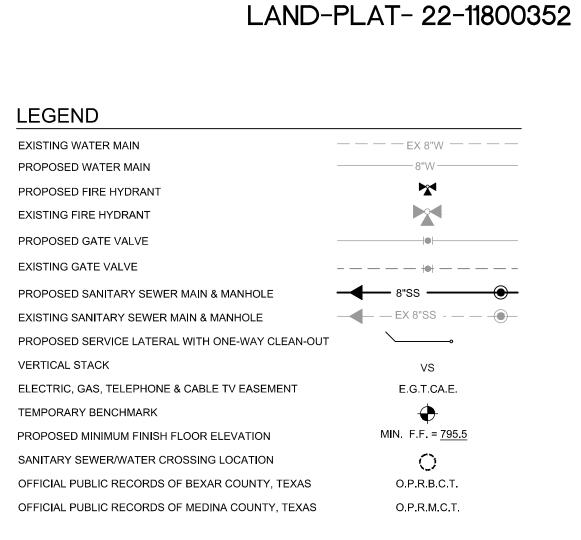
Contractor and/or Contractor's independently retained employee or structural design/geotechnical/safety/equipment consultant, if any, shall review these plans and available geotechnical information and the anticipated installation site(s) within the project work area in order to implement Contractor's trench excavation safety protection systems, programs and/or procedures for the project described in the contract documents. The Contractor's implementation of these systems, programs and/or procedures shall provide for adequate trench excavation safety protection that comply with as a minimum, OSHA standards for trench excavations. Specifically, Contractor and/or Contractor's independently retained employee or safety consultant shall implement a trench safety program in accordance with OSHA standards governing the presence and activities of individuals working in and around trench excavation.

Developer's Name	KINGFISH DEVELOPME	NT, LLC		
Developer's Address	2722 W. BITTERS	RD. SUITE 106		
City_SAN ANTONIO	State	ТХ	Zip_	78248
Phone #(210) 8	82-6800	Fax #		
SAWS Block Map # _	132-514	Total EDU's	60	Total Acreage 13.578
Total Linear Footage	of Pipe8" ~ 2,589 L.F			Plat No. 22-11800352
Number of Lots	60	SAWS Job No	o	22-1649

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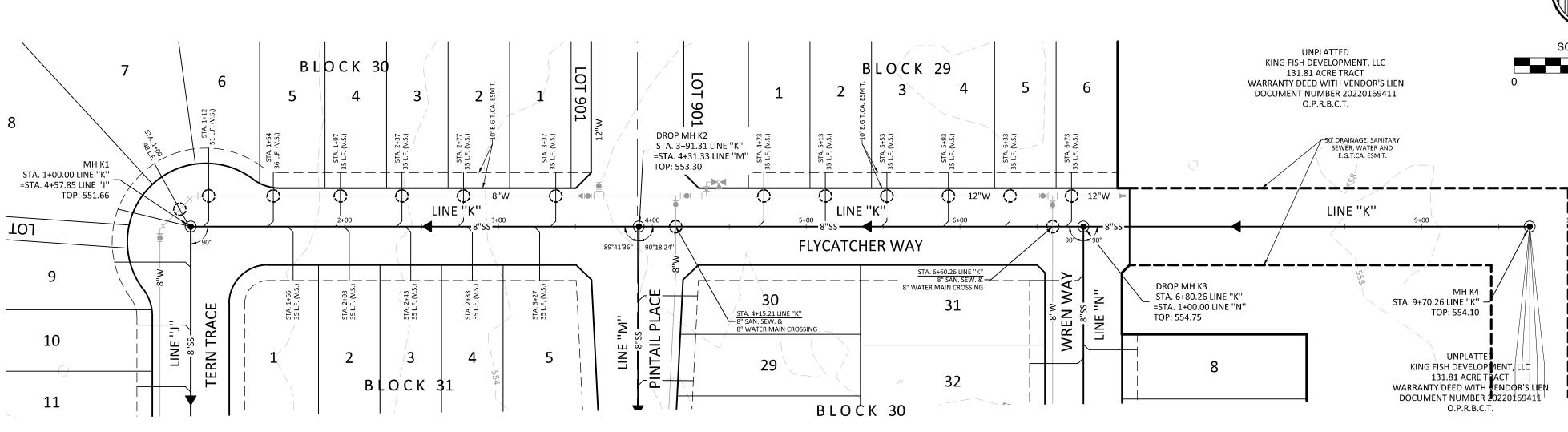


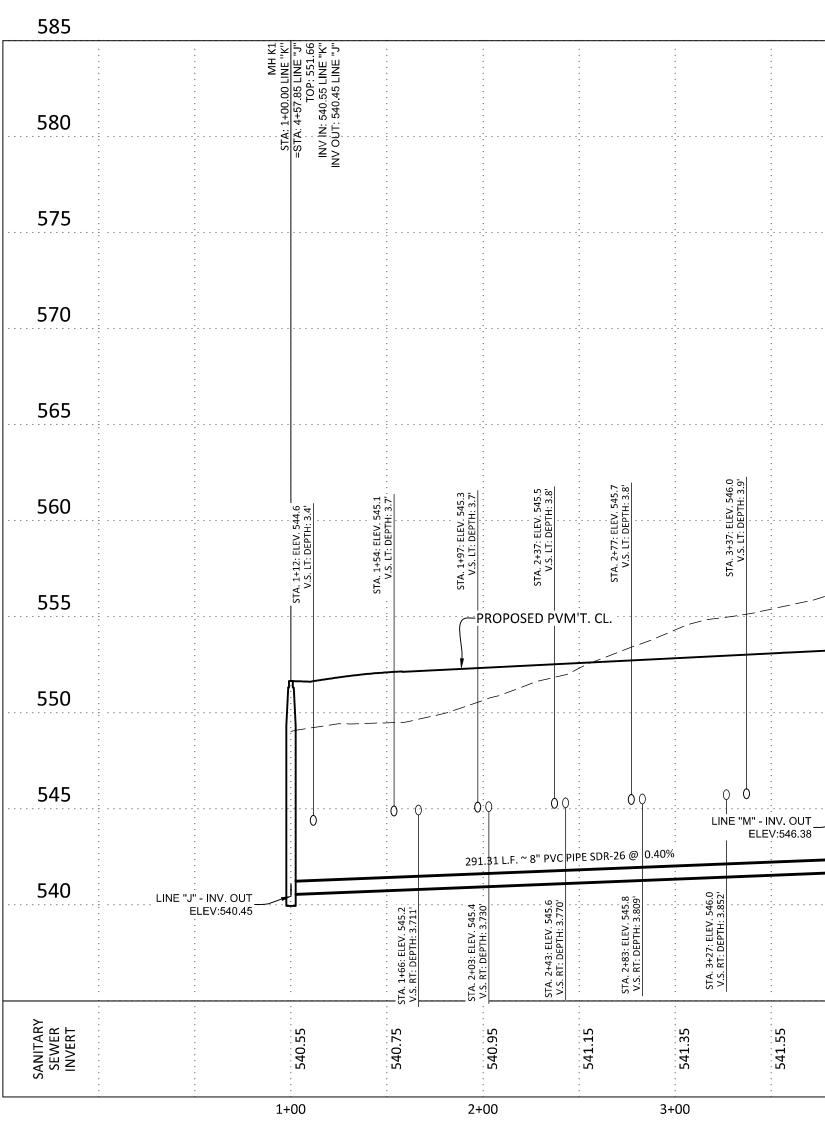


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Phone #(210) 8	82-6800	Fax #			
SAWS Block Map # _	132-514	Total EDU's	60	Total Acreage	13.578
Total Linear Footage	of Pipe <u>8" ~ 2,589 L.F.</u>			Plat No2-	11800352
Number of Lots City	60	SAWS Job	No	22-1649	

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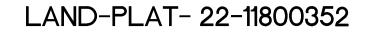




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PROPOSED MINIMUM FINISH FLOOR ELEVATION

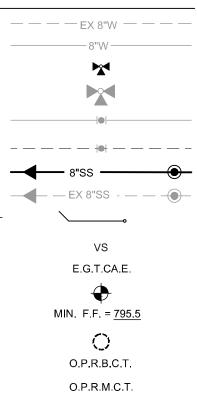
SANITARY SEWER/WATER CROSSING LOCATION

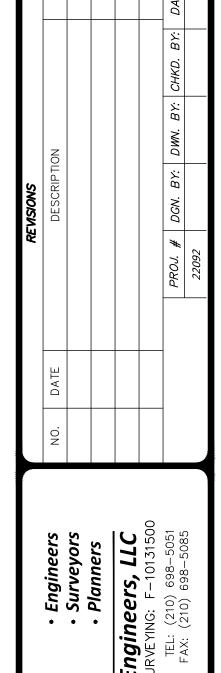
CAUTION:

EXISTING UTILITIES:

OFFICIAL PUBLIC RECORDS OF BEXAR COUNTY, TEXAS

OFFICIAL PUBLIC RECORDS OF MEDINA COUNTY, TEXAS





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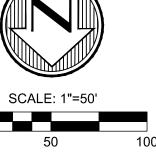
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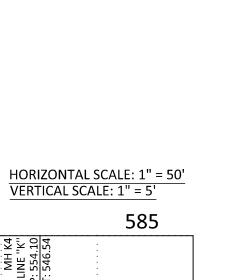
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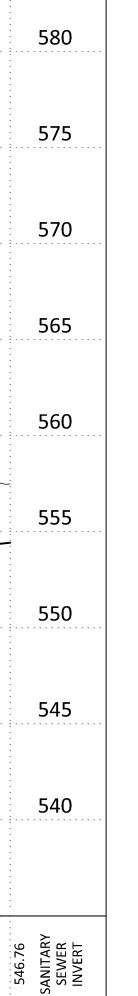
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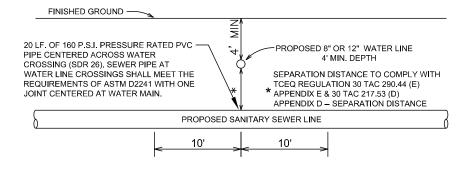




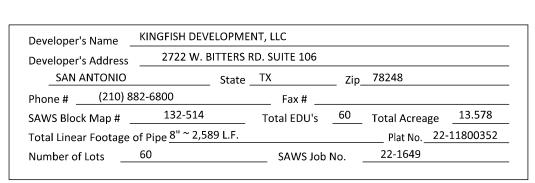
CONSTRUCTION AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF SAME DURING CONSTRUCTION.
2. IT IS ESSENTIAL THAT 48 HOURS PRIOR TO CONSTRUCTION ALL UTILITY COMPANIES BE NOTIFIED TO LOCATE AND TAG THEIR UNDERGROUND FACILITIES PRIOR TO EXCAVATION.
3. THE CONTRACTOR NEEDS TO ALLOW FOR THE POSSIBILITY OF UNDETECTED UNDERGROUND UTILITIES. ALSO, THE CONTRACTOR MUST ALLOW FOR CHANGES DUE TO UTILITIES BEING IN LOCATIONS DIFFERENT FROM THOSE SHOWN ON THE UTILITY RECORD DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND EXPOSING CONFLICTS PRIOR TO CONSTRUCTION.
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ACTUAL LOCATIONS AND DEPTHS MUST BE VERIFIED BY CONTRACTOR PRIOR TO THE



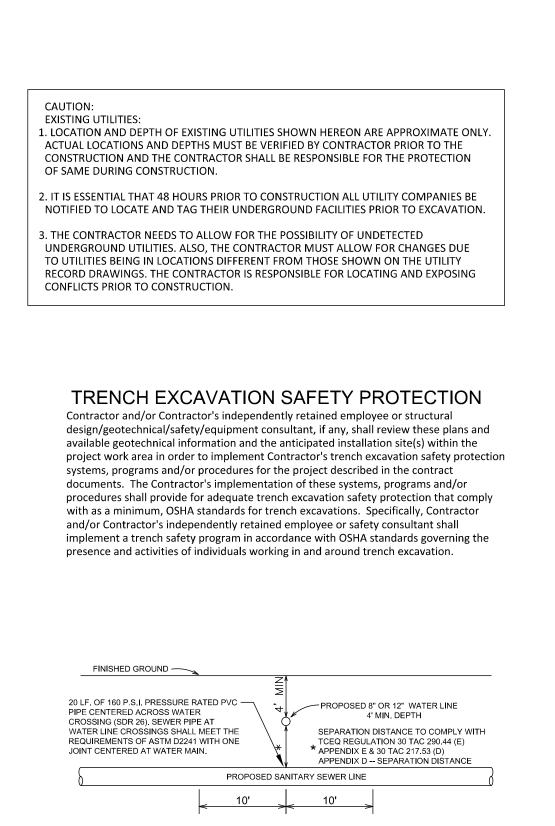
TYPICAL SANITARY SEWER/ WATER CROSSING DETAIL N.T.S. REFERENCE SAWS SPEC. ITEM 812



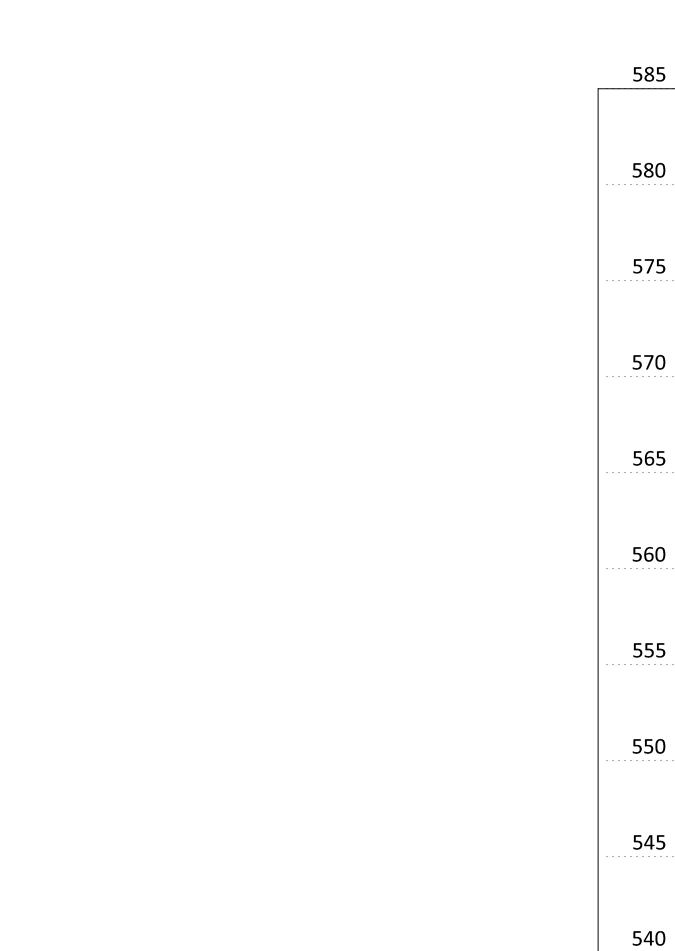


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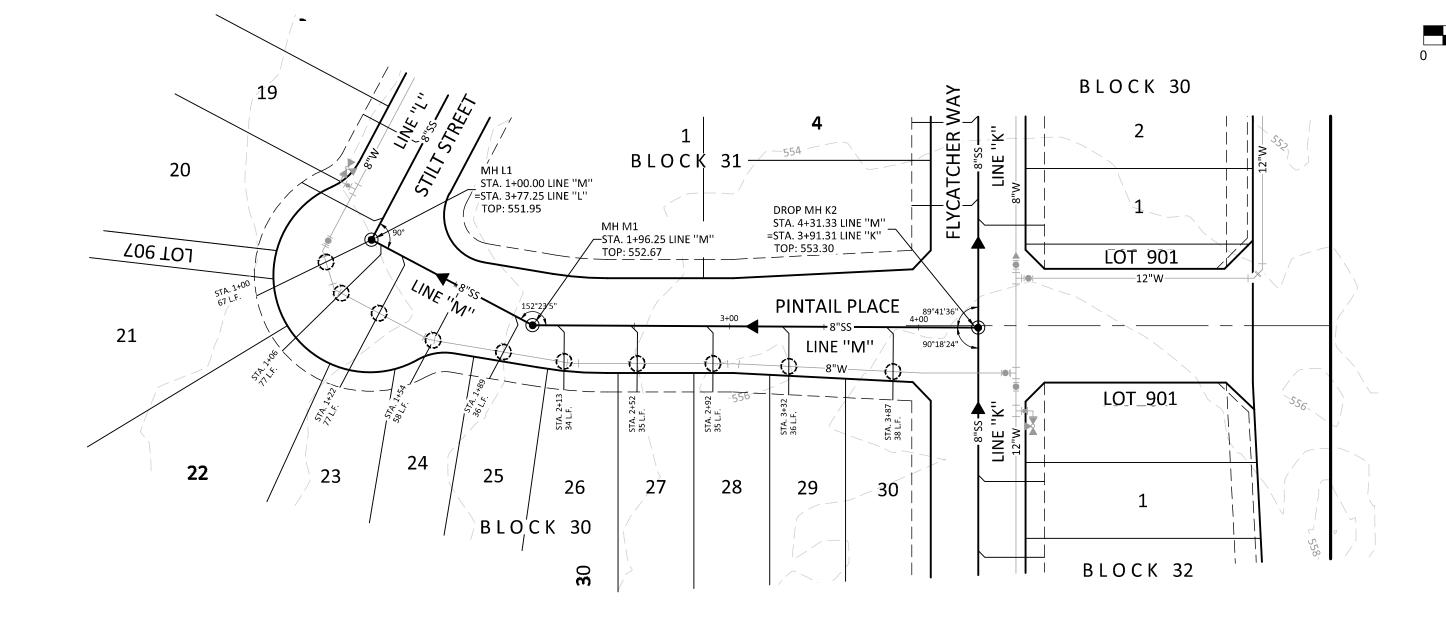
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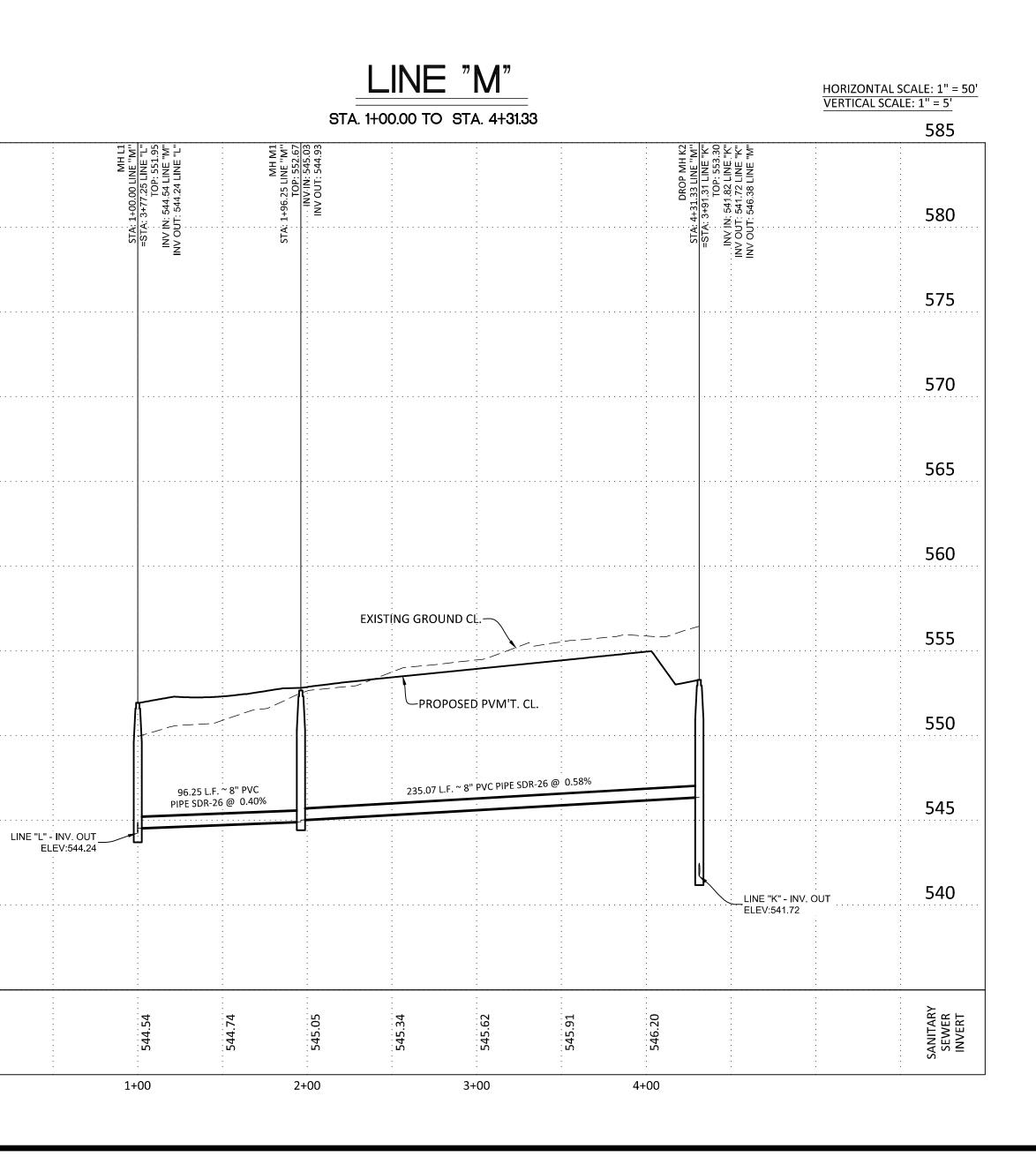








SANITARY SEWER INVERT



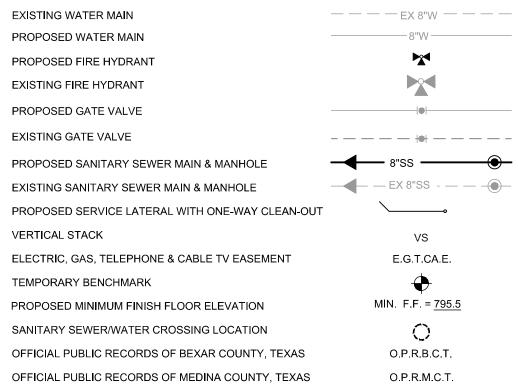
SCALE: 1"=50'

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LAND-PLAT- 22-11800352

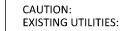
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	• Engineers	• Planners	Moy Tarin Ramirez Engineers, LLC	TBPELS: ENGINEERING F-5297/SURVEYING: F-10131500	SAN ANTONIO TEXAS 78249 EAV: (210) 698–5051	
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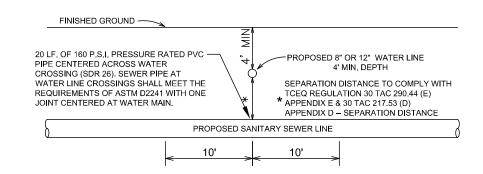
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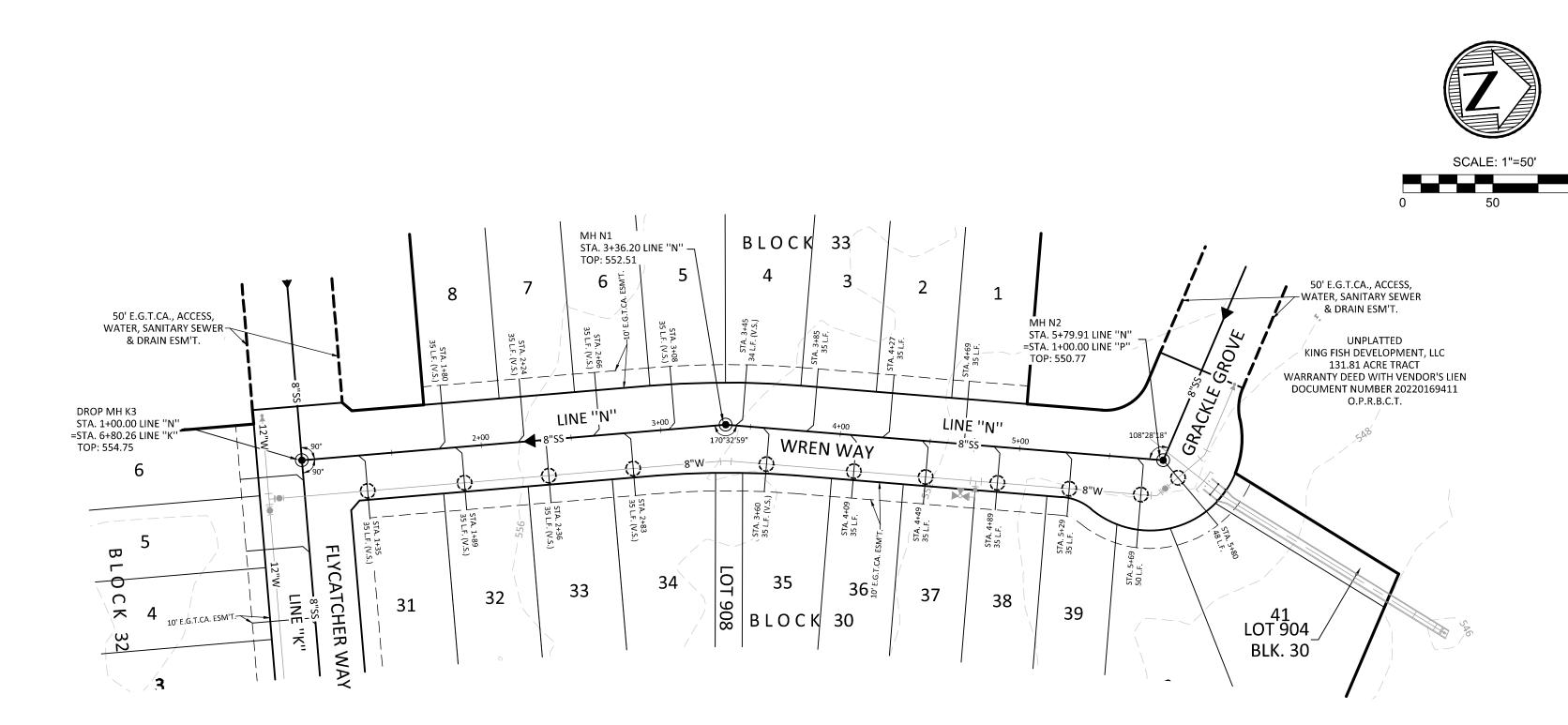


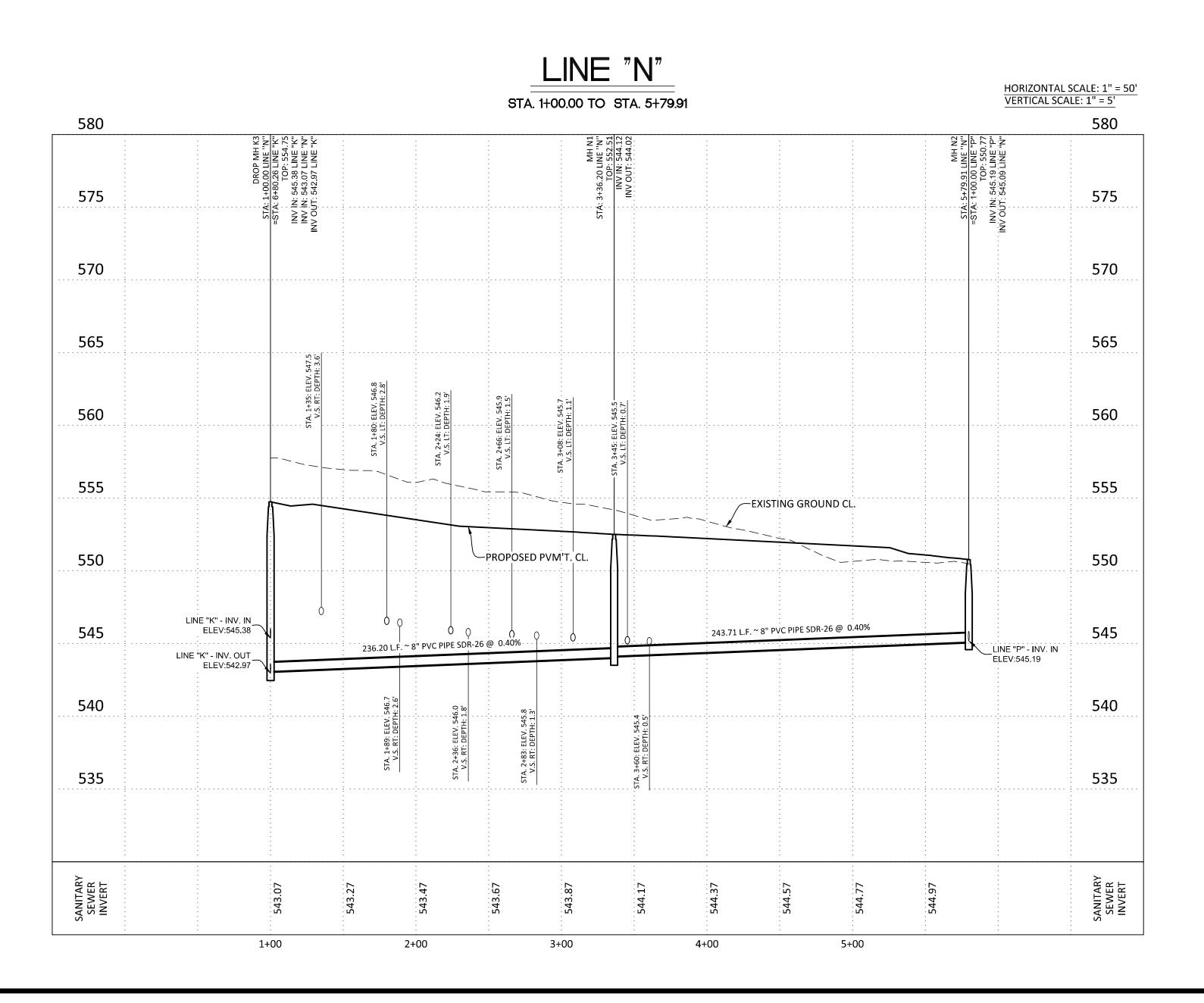
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TYPICAL SANITARY SEWER/ WATER CROSSING DETAIL N.T.S. REFERENCE SAWS SPEC. ITEM 812





LAND-PLAT- 22-11800352

O.P.R.M.C.T.

LEGEND

EXISTING WATER MAIN	— — — — EX 8"W — — — —
PROPOSED WATER MAIN	
PROPOSED FIRE HYDRANT	
EXISTING FIRE HYDRANT	
PROPOSED GATE VALVE	
EXISTING GATE VALVE	
PROPOSED SANITARY SEWER MAIN & MANHOLE	
EXISTING SANITARY SEWER MAIN & MANHOLE	——————————————————————————————————————
PROPOSED SERVICE LATERAL WITH ONE-WAY CLEAN-OUT	
VERTICAL STACK	VS
ELECTRIC, GAS, TELEPHONE & CABLE TV EASEMENT	E.G.T.CA.E.
TEMPORARY BENCHMARK	\bullet
PROPOSED MINIMUM FINISH FLOOR ELEVATION	MIN. F.F. = <u>795.5</u>
SANITARY SEWER/WATER CROSSING LOCATION	0
OFFICIAL PUBLIC RECORDS OF BEXAR COUNTY, TEXAS	O.P.R.B.C.T.

OFFICIAL PUBLIC RECORDS OF MEDINA COUNTY, TEXAS

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Developer's Name	KINGFISH DEVI	ELOPME	NT, LLC		
Developer's Address	2722 W. B	ITTERS I	RD. SUITE 106		
City SAN ANTONIO		State	ТХ	Zip_	78248
Phone # (210) 8	82-6800		Fax #		
SAWS Block Map # _	132-514		Total EDU's	60	Total Acreage 13.578
Total Linear Footage	of Pipe <u>8" ~ 2,58</u>	39 L.F.			Plat No. 22-11800352
Number of Lots	60		SAWS Job	No	22-1649

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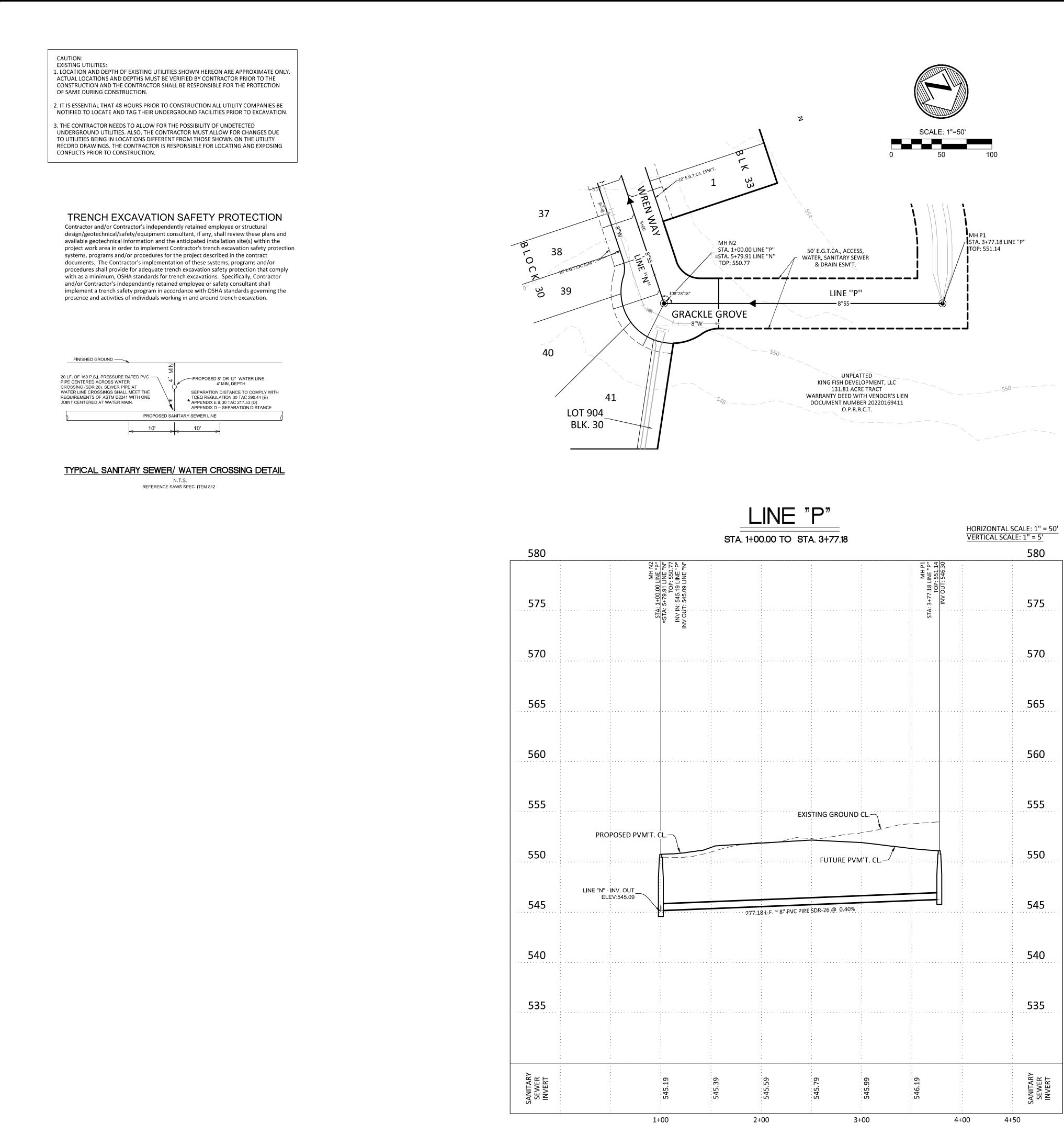
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SEWER PLAN

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LAND-PLAT- 22-11800352

LEGEND

EXISTING WATER MAIN	— — — — EX 8"W — — — —
PROPOSED WATER MAIN	
PROPOSED FIRE HYDRANT	
EXISTING FIRE HYDRANT	
PROPOSED GATE VALVE	
EXISTING GATE VALVE	
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TEMPORARY BENCHMARK	\bullet
PROPOSED MINIMUM FINISH FLOOR ELEVATION	MIN. F.F. = <u>795.5</u>
SANITARY SEWER/WATER CROSSING LOCATION	\bigcirc

OFFICIAL PUBLIC RECORDS OF BEXAR COUNTY, TEXAS

OFFICIAL PUBLIC RECORDS OF MEDINA COUNTY, TEXAS

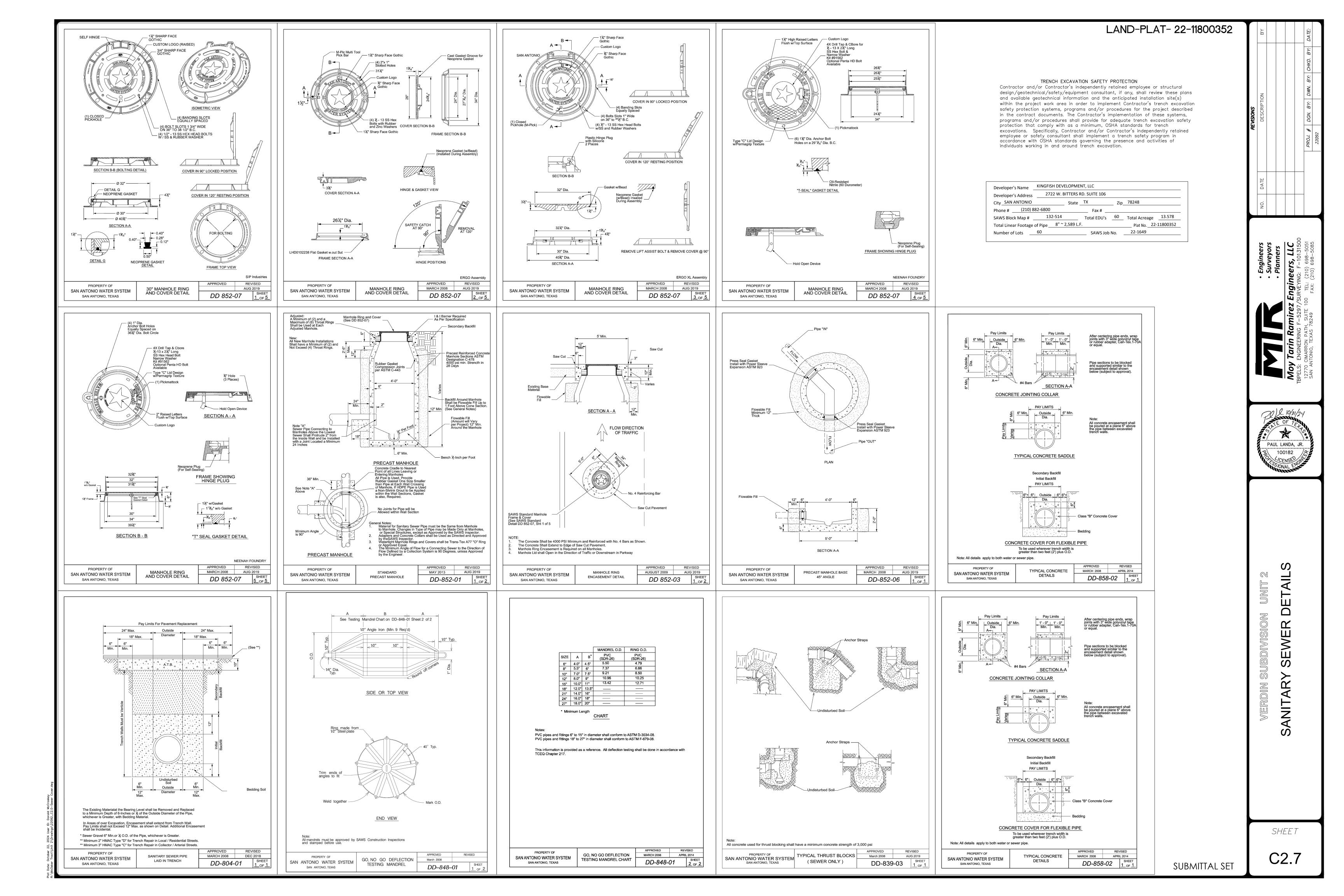
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_	LINE "P"	JR.	TBPELS: ENGINEERING F-5297/SURVEYING: F-10131500 12770 CIMARRON PATH, SUITE 100 TEL: (210) 698-5051		PROJ. # DGN RY DWN RY CHKD RY	RY- DATE-
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Developer's Name	KINGFISH DEV	ELOPME	NT, LLC			
Developer's Address	2722 W. E	BITTERS F	RD. SUITE 106			
City_SAN ANTONIO		State	ТХ	Zip_	78248	
Phone # (210) 8	82-6800		Fax #			
SAWS Block Map #	132-514		Total EDU's	60	Total Acreage	13.578
Total Linear Footage	of Pipe <u>8" ~ 2,58</u>	39 L.F.			Plat No22	-11800352
Number of Lots	60		SAWS Job	No.	22-1649	



SAWS CONSTRUCTION NOTES COUNTER PERMIT AND GENERAL CONSTRUCTION PERMIT **ANUARY 202**

General Section

1. All materials and construction procedures within the scope of this contract shall be approved by the San Antonio Water System (SAWS) and comply with the Plans, Specifications, General Conditions and with the following as applicable: A. Current Texas Commission on Environmental Quality (TCEQ) "Design Criteria for Domestic Wastewater System", Texas Administrative Code (TAC) Title 30 Part 1 Chapter 217 and "Public Drinking Water", TAC Title 30 Part 1

- Chapter 290.
- B. Current TXDOT "Standard Specifications for Construction of Highways, Streets and Drainage". C. Current "San Antonio Water System Standard Specifications for Water and Sanitary Sewer Construction".
- D. Current City of San Antonio "Standard Specifications for Public Works Construction".
- E. Current City of San Antonio "Utility Excavation Criteria Manual" (UECM).

2. The contractor shall not proceed with any pipe installation work until they obtain a copy of the approved Counter Permit or General Construction Permit (GCP) from the consultant and has been notified by SAWS Construction Inspection Division to proceed with the work and has arranged a meeting with the inspector and consultant for the work requirements. Work completed by the contractor without an approved Counter Permit and/or a GCP will be subject to removal and replacement at the expense of the contractors and/or the developer.

3. The Contractor shall obtain the SAWS Standard Details from the SAWS website, http://www.saws.org/business center/specs. Unless otherwise noted within the design plans.

4. The Contractor is to make arrangements with the SAWS Construction Inspection Division at (210) 233-2973, on notification procedures that will be used to notify affected home residents and/or property owners hours prior to beginning any work.

5. Location and depth of existing utilities and service laterals shown on the plans are understood to be approximate. Actual locations and depths must be field verified by the Contractor at least 1 week prior to construction. It shall be the Contractor's responsibility to locate utility service lines as required for construction and to protect them during construction at no cost to SAWS.

6. The Contractor shall verify the exact location of underground utilities and drainage structures at least 1-2 weeks prior to construction whether shown on plans or not. Please allow up to 7 business days for locates requesting pipe location markers on SAWS facilities. The following contact information are supplied for verification purposes:

- SAWS Utility Locates: http://www.saws.org/Service/Locates
- COSA Drainage (210) 207-0724 or (210) 207-6026
- COSA Traffic Signal Operations (210) 206-8480 COSA Traffic Signal Damages (210) 207-3951
- 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 if damages are made as a result of the project's construction.

8. All work in Texas Department of Transportation (TxDOT) and/or Bexar County right-of-way shall be done in accordance with respective construction specifications and permit requirements.

9. The Contractor shall comply with City of San Antonio or other governing municipality's tree ordinances when excavating near trees. 10. The Contractor shall not place any waste materials in the 100-year Flood Plain without first obtaining an approved Flood

Plain Permit. 11. Holiday Work: Contractors will not be allowed to perform SAWS work on SAWS recognized holidays. Request should be

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

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

12. Compaction note (Item 804): The contractor shall be responsible for meeting the compaction requirements on all trench backfill and for paying for the tests performed by a third party. Compaction tests will be done at one location point randomly selected, or as indicated by the SAWS Inspector and/or the test administrator, per each 12-inch loose lift per 400 linear feet at a minimum. This project will not be accepted and finalized by SAWS without this requirement being met and verified by providing all necessary documented test results.

13. A copy of all testing reports shall be forwarded to SAWS Construction Inspection Division.

Water Section

1. Prior to tie-ins, any shutdowns of existing mains of any size must be coordinated with the SAWS Construction Inspection Division at least one week 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.

For water mains 12" or higher: SAWS Emergency Operations Center (210) 233-2014

2. Asbestos Cement (AC) pipe, also known as transite pipe which is known to contain asbestos- containing material (ACM), may be located within the project limits. Special waste management procedures and health and safety requirements will be applicable when removal and/or disturbance of this pipe occurs. Such work is to be made under Special Specification Item No. 3000, "Special Specification for Handling Asbestos Cement Pipe".

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

4. Suitable anchorage/thrust blocking or joint restraint shall be provided at all of the following main locations: dead ends, plugs, caps, tees, crosses, valves, and bends, in accordance with the Standard Drawings DD-839 Series and Item No. 839, in the SAWS Standard Specifications for Construction.

5. All valves shall read "open right".

6. PRVs Required: Contractor to verify that no portion of the tract is below ground elevation of 565 feet where the static pressure will normally exceed 80 PSI. At all such locations where the ground level is below 565 feet, the Developer or Builder shall install at each lot, on the customer's side of the meter, an approved type pressure regulator in conformance with the Plumbing Code of the City of San Antonio. No dual services allowed for any lot(s) if

*PRV is/are required for such lot(s), only single service connections shall be allowed. *Note: A pressure regulator is also known as a pressure reducing valve (PRV).

7. Pipe Disinfection with Dry HTH for Projects less than 800 linear feet. (Item No. 847.3): Mains shall be disinfected with dry HTH where shown in the contract documents or as directed by the Inspector, and shall not exceed a total length of 800 feet. This method of disinfection will also be followed for main repairs. The Contractor shall utilize all appropriate safety measure to protect his personnel during disinfection operations.

8. Backflow Prevention Devices:

• All irrigation services within residential areas are required to have backflow prevention devices. • All commercial backflow prevention devices must be approved by SAWS prior to installation. 9. Final connection to the existing water main shall not be made until the water main has been pressure tested,

chlorinated, and SAWS has released the main for tie-in and use. 10. Division Valves: Division Valves shown on plans or not shown on plans but found in the field shall only be operated by SAWS Distribution and Collection staff and only with prior written approval of the SAWS Director of Production and Operations and proper coordination with all SAWS departments. Contractor shall provide written notification to the inspector a minimum of two weeks in advance to start the coordination process and will be informed by the Inspector when the division valve will be operated by the SAWS Distribution and Collection staff. The Division Valve can only be operated by SAWS Distribution and Collection staff member not the inspector or the contractor. Operation of a Division Valve without the express prior written approval of the SAWS Distribution and Collection staff will constitute a material breach of any written SAWS contract or permit in addition to subjecting the Contractor to liability for any and all fines, fees, or other damages, direct or consequential, that may arise from or be caused by the operation of the valve without prior written permission. Please be informed that the approval of the operation or opening or closing of a division valve can take several weeks for approval. Division Valves will also have a valve lid labeled Division Valve and a locking mechanism installed with a key. The lock and key mechanism will be paid for by the contractor but will be installed by SAWS Distribution and Collection staff.

NOTE TO CONTRACTOR:

BY THE ACT OF SUBMITTING A BID FOR THIS PROPOSED CONTRACT, THE BIDDER WARRANTS THAT THE BIDDER, AND ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS HE INTENDS TO USE HAVE CAREFULLY AND THOROUGHLY REVIEWED THE DRAWINGS. SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS AND HAVE FOUND THEM COMPLETE AND FREE FROM ANY AMBIGUITIES AND SUFFICIENT FOR THE PURPOSE INTENDED. THE BIDDER FURTHER WARRANTS THAT TO THE BEST OF HIS OR HIS SUBCONTRACTORS' AND MATERIAL SUPPLIERS' KNOWLEDGE, ALL MATERIALS AND PRODUCTS SPECIFIED OR INDICATED HEREIN ARE ACCEPTABLE FOR ALL APPLICABLE CODES AND AUTHORITIES.

THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS HAS BEEN BASED UPON RECORD INFORMATION ONLY AND MAY NOT MATCH LOCATIONS AND/OR DEPTHS AS CONSTRUCTED. THE CONTRACTOR SHALL CONTACT EACH INDIVIDUAL UTILITY. FOR ASSISTANCE IN DETERMINING EXISTING UTILITY LOCATIONS AND DEPTHS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL UTILITY CROSSINGS PRIOR TO BEGINNING ANY CONSTRUCTION.

TRAFFIC CONTROL NOTE:

NECESSARY TRAFFIC CONTROL, FLAGMEN, DETOUR ROUTING AROUND WORK ACTIVITIES AND MAINTENANCE OF DETOUR SIGNS ARE THE CONTRACTOR'S RESPONSIBILITY. UNLESS DIRECTED OTHERWISE BY THE PLANS, IN ALL AREAS WHERE WORK IS ADJACENT TO OR CROSSING ROADWAYS, THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE OPEN TRAFFIC LANE (12 FT.), CONTROLLED WITH FLAGMEN, DURING WORKING HOURS. DURING ALL NON-WORKING HOURS A MINIMUM OF TWO TRAFFIC LANES (24 FT.) SHALL BE OPEN TO TRAFFIC. CONTRACTOR WILL FURNISH AND MAINTAIN ALL REQUIRED TRAFFIC CONTROL DEVICES PER TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD), TO PROPERLY WARN, GUIDE AND CONTROL TRAFFIC AT ALL TIMES DURING CONSTRUCTION.

- WATER MAINS GREATER THAN 800 FEET. CONTRACTOR SHALL CHLORINATE NEW MAINS WITH HTH FOR NEW WATER MAINS 750 FEET AND LESS.
- 2. JUMPER CONNECTIONS TO EXISTING WATER SERVICE TO BE PROVIDED AS REQUIRED OR DIRECTED BY THE SAWS INSPECTOR.
- 3. ALL MAINS ARE ON-SITE.
- 4. FITTINGS WEIGHT IS BASED ON M.J. DUCTILE IRON FITTINGS (COMPACT).
- MAIN INSTALLATION. REPLACEMENT OF CURB. SIDEWALKS, BASE AND PAVEMENT WILL BE SUBSIDIARY TO THE ITEMS THAT THE STREET CUT WAS NEEDED FOR.
- *6. MINIMUM COVER OVER WATER MAIN BASED ON FINISHED GROUND. WATER LINE DIA. MIN. DEPTH 8"-12" >16"

BEXAR COUNTY

CONSTRUCTION PLANS FOR

VERDIN SUBDIVISION, UNIT 2 WATER IMPROVEMENTS

FEST RD NOYES RD SITE VICINITY MAP

SUBMITTAL DATE: DECEMBER 2022

N.T.S.



LEGAL DESCRIPTION:

BEING A TOTAL OF 13.578 ACRES, INCLUSIVE OF A 0.675 OF AN ACRE VARIABLE WIDTH RIGHT OF WAY DEDICATION, SITUATED IN THE RUFENO RODRIGUEZ SURVEY NO. 49, ABSTRACT NO. 613, COUNTY BLOCK NO. 4202, BEING A PORTION OF A 131.81 ACRE TRACT AS CONVEYED TO KING FISH DEVELOPMENT, LLC BY WARRANTY DEED WITH VENDOR'S LIEN AS RECORDED IN DOCUMENT NUMBER 20220169411, OF THE OFFICIAL PUBLIC RECORDS OF BEXAR COUNTY, TEXAS.





FIRE HYDRANT LEAD FREE NOTE:

MISCELLANEOUS GENERAL NOTES

1. MACHINE CHLORINATION BY THE SAN ANTONIO WATER SYSTEM FOR NEW

5. CONTRACTOR TO OBTAIN STREET CUT PERMITS AS NECESSARY FOR WATER

LAND-PLAT- 22-11800352

SUBMITTED BY:

MOY TARIN RAMIREZ ENGINEERS, LLC. 12770 CIMARRON PATH, SUITE 100 SAN ANTONIO, TEXAS 78249 TEL: (210) 698-5051 FAX: (210) 698-5085

OWNER/DEVELOPER

KINGFISH DEVELOPMENT, LLC 2722 W. BITTERS RD. SUITE 106 SAN ANTONIO, TX. 78233 (210) 882-6800

SHEET INDEX

SHEET NO.	TITLE
C3.0	WATER COVER & NOTES
C3.1	OVERALL WATER PLAN
C3.2	SAWS WATER DETAILS
C3.3	SAWS WATER DETAILS

ESTIMATED WATER QUANTITIES

ITEM	DESCRIPTION	UNIT	EST/QTY
1	12" WATER MAIN TIE-IN	L.S.	1
2	TRENCH EXCAVATION PROTECTION	L.F.	2,686
3	12" PIPE, C900 DR 18 PVC CLASS 235 (INCL. RESTRAINTS)	L.F.	928
4	8" PIPE, C900 DR 18 PVC CLASS 235 (INCL. RESTRAINTS)	L.F.	1,758
5	12" GATE VALVE, M.J.	EA.	4
6	8" GATE VALVE, M.J.	EA.	6
7	STANDARD FIRE HYDRANT (COMPLETE)	EA.	3
8	2" PERMANENT BLOW-OFF	EA.	2
9	2" TEMPORARY BLOW-OFF	EA.	1
10	3/4" IRRIGATION SERVICE: LONG	EA.	1
11	3/4" SINGLE SERVICE: SHORT	EA.	41
12	3/4" SINGLE SERVICE: LONG	EA.	19
13	D.I. FITTINGS (RESTRAINED)	TON	1.7
14	HYDROSTATIC TESTING	EA.	1
15	12"x16"CUT-IN TEE	EA.	1
16	METER BOXES	EA.	61

CAUTION

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. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF 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 available geotechnical information and the anticipated installation site(s) within the project work area in order to implement Contractor's trench excavation safety protection systems, programs and/or procedures for the project described in the contract documents. The Contractor's implementation of these systems, programs and/or procedures shall provide for adequate trench excavation safety protection that comply with as a minimum, OSHA standards for trench excavations. Specifically, Contractor and/or Contractor's independently retained employee or safety consultant shall implement a trench safety program in accordance with OSHA standards governing the presence and activities of individuals working in and around trench excavation.

TXDOT PERMIT NO. SAT20221017153623

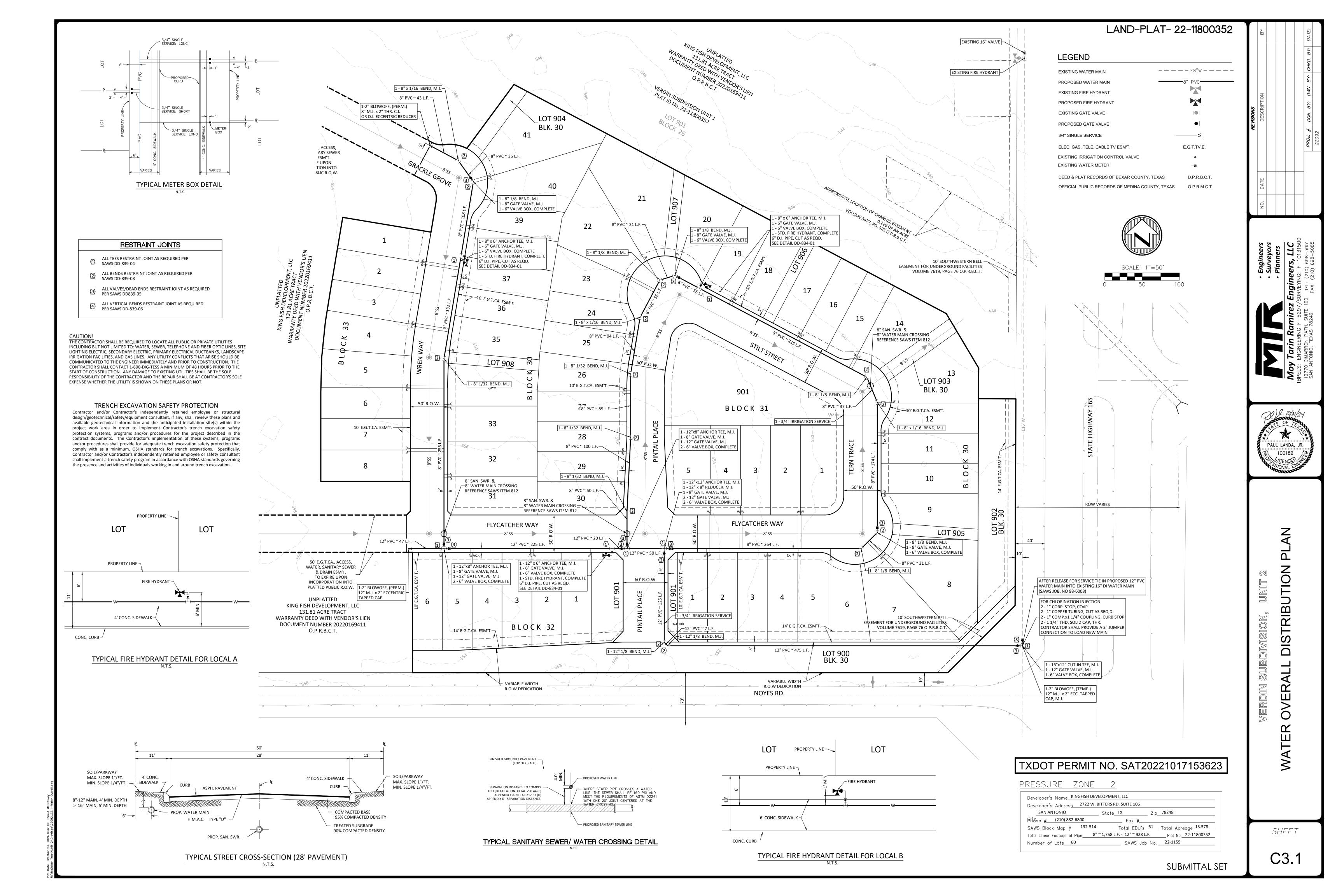
PRESSURE ZONE 2

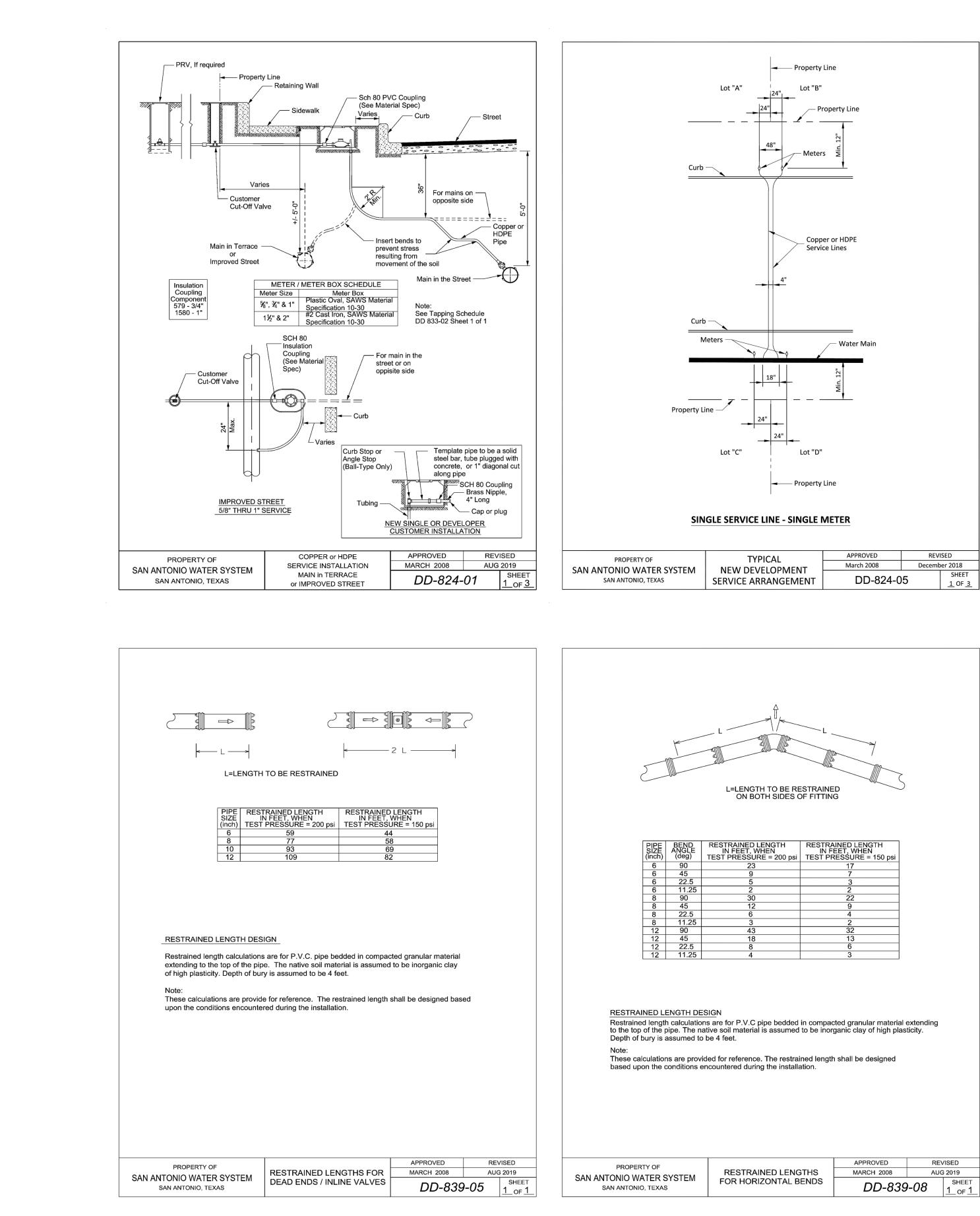
Developer's Name _	KINGFISH DEV	ELOPMENT, LLC			
Developer's Address	2722 W. B	BITTERS RD. SUITE 106			
City SAN ANTONIO		State <u>TX</u>	Zip_	78248	
Phone # (210) 8	82-6800	Fax #			
SAWS Block Map # _	132-514	Total EDU's	61	Total Acreage _1	3.578
Total Linear Footage	of Pipe <u>8" ~</u>	1,758 L.F 12" ~ 928 I	F.	Plat No22-118	300352
Number of Lots	60	SAWS Job	o No.	22-1155	

SUBMITTAL SET TEXAS C3.0

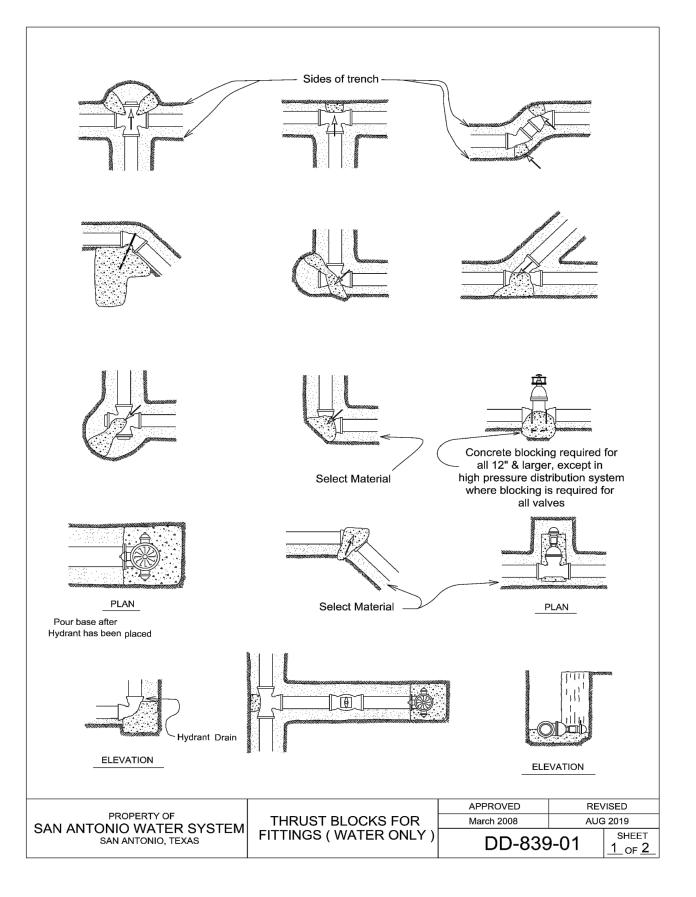


"SAWS REQUIRES GCPS AND COUNTER PERMITS TO USE LEAD FREE (<25% LEAD) FIRE HYDRANTS."

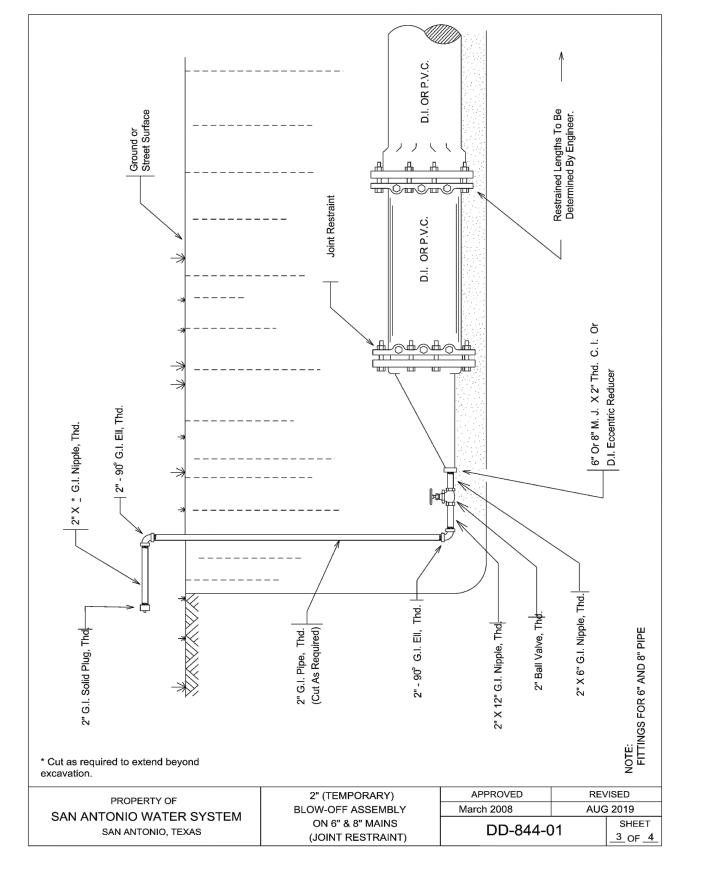


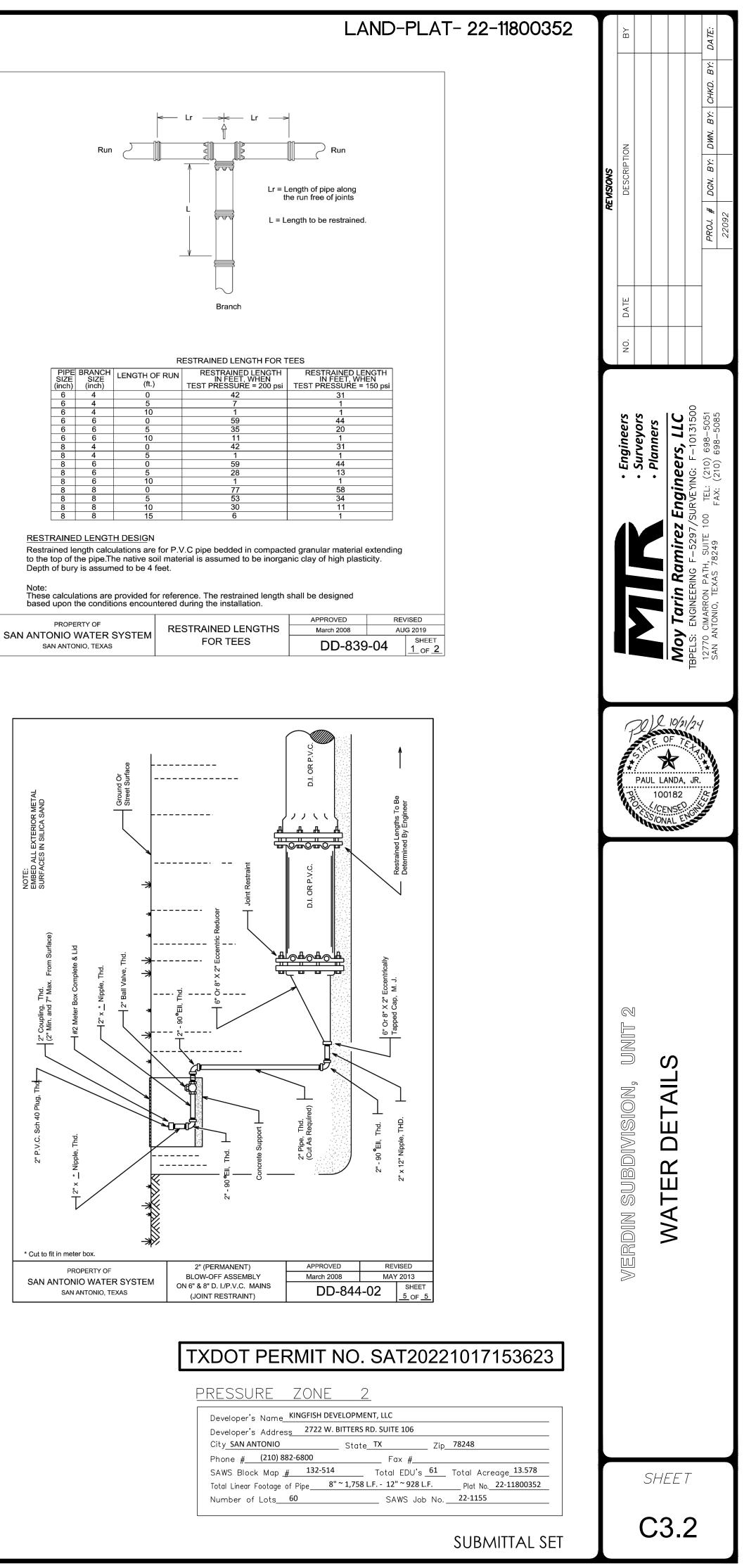


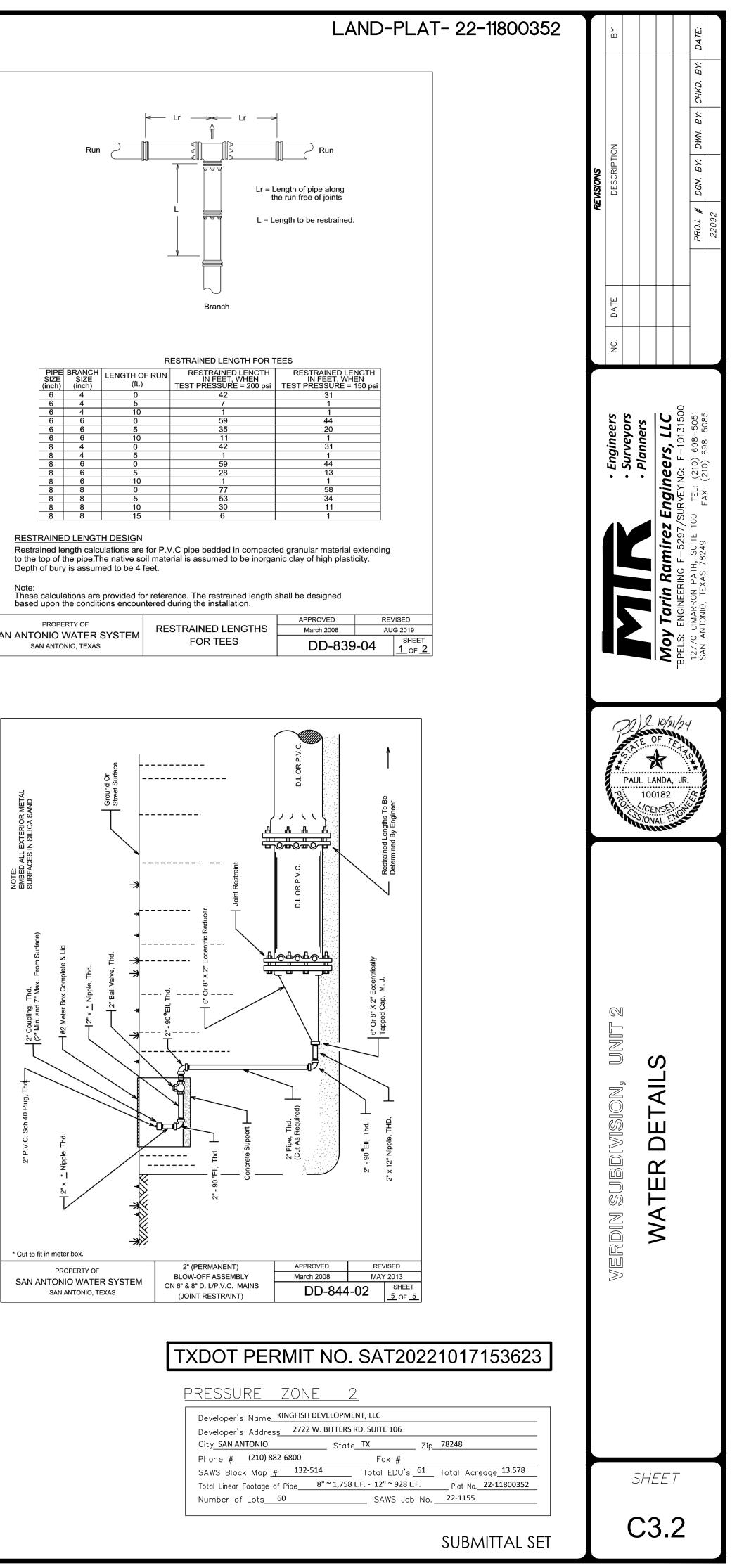
	TYPICAL - M NEW DEVELOPMENT - SERVICE ARRANGEMENT	APPROVED	REV	ISED
N/		March 2008	Decemb	oer 2018
			NE S	SHEET
		DD-824-0	5	<u>1</u> OF <u>3</u>

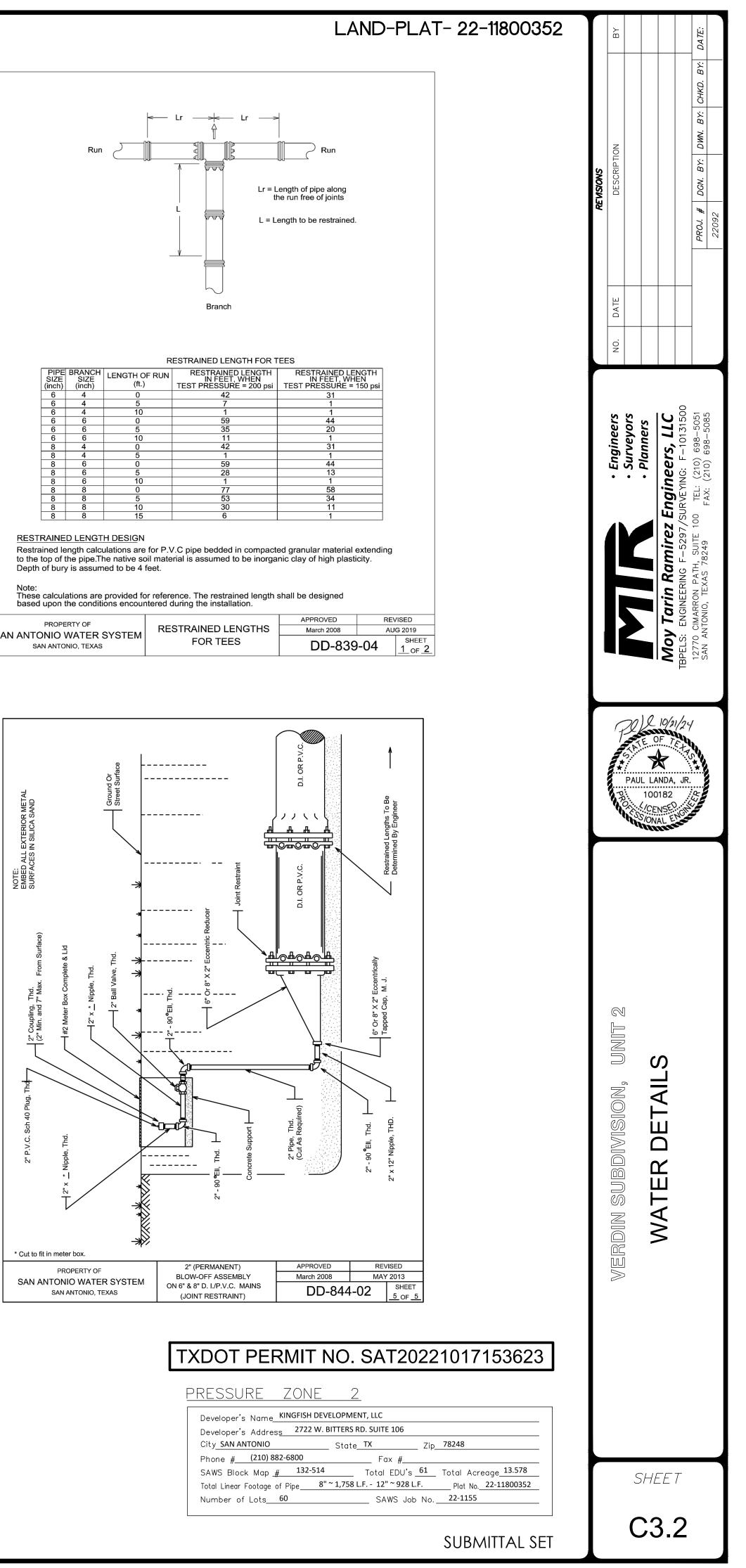


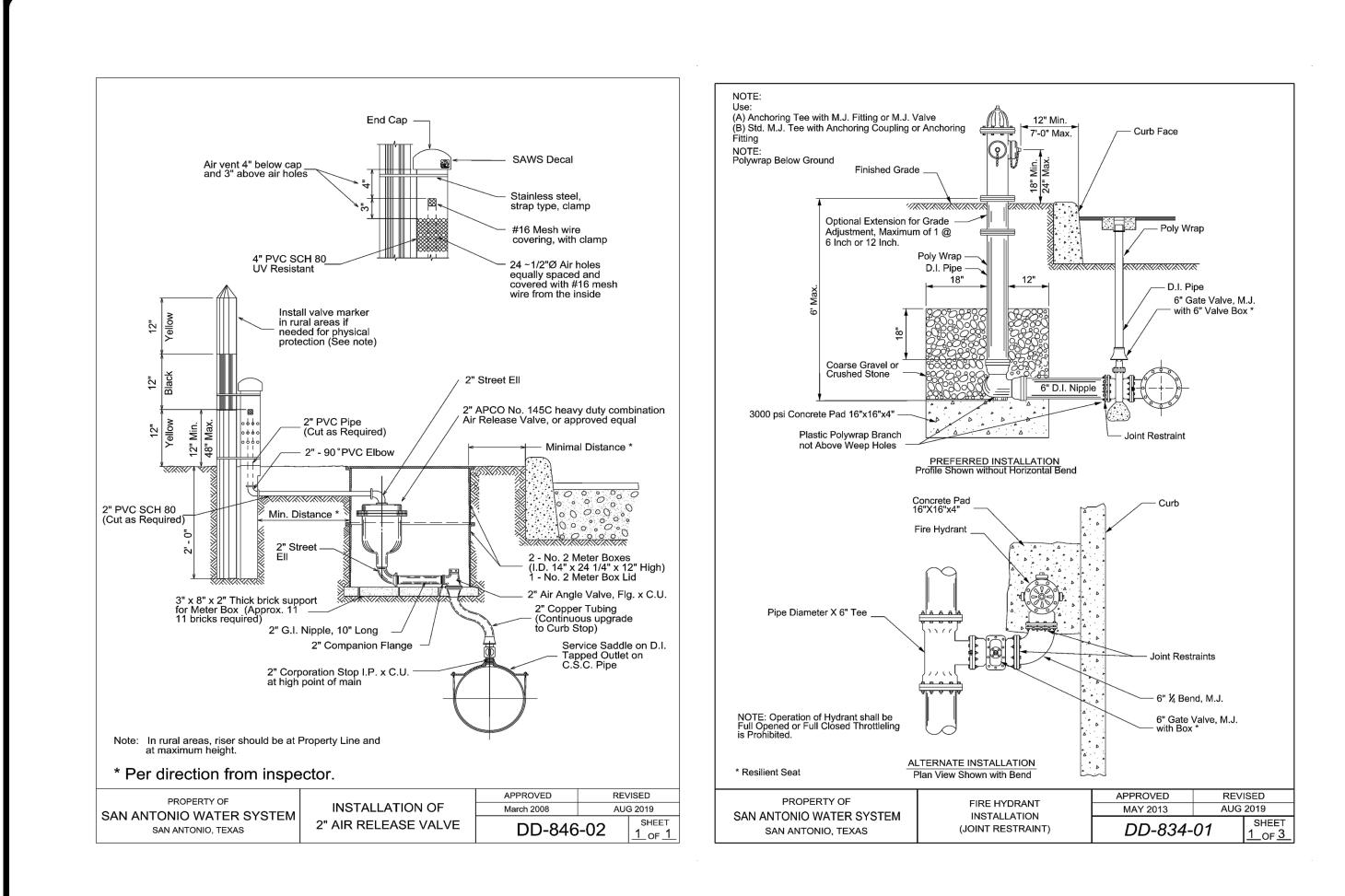
ЭЩ ДШ	RESTRAINED LENGTH IN FEET, WHEN TEST PRESSURE = 200 psi	RESTRAINED LENGTH IN FEET, WHEN TEST PRESSURE = 150 psi
)	23	17
5	9	7
2.5	5	3
.25	2	2
כ	30	22
5	12	9
2.5	6	4
.25	3	2
)	43	32
5	18	13
2.5	8	6
.25	4	3

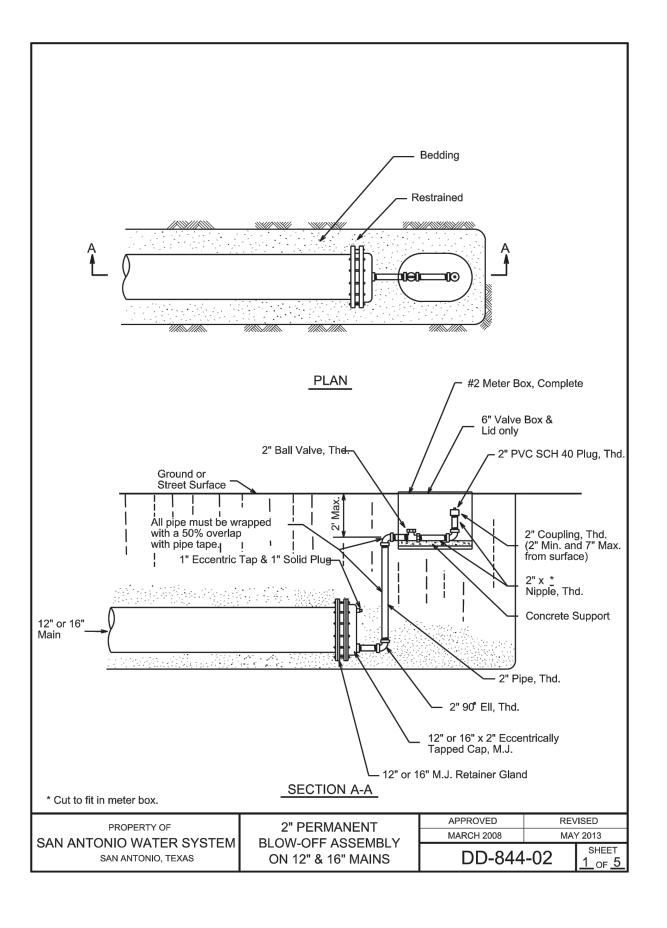


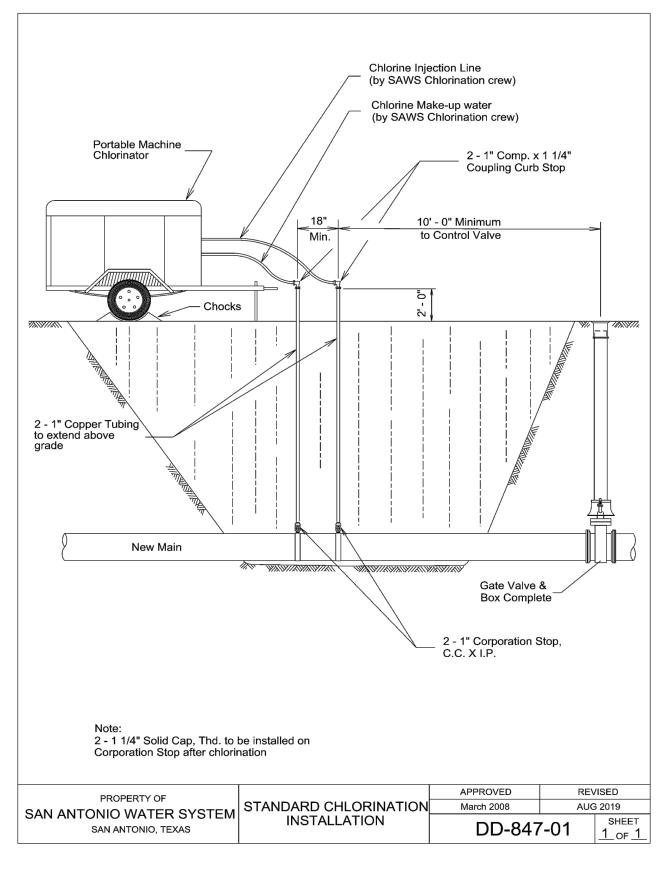




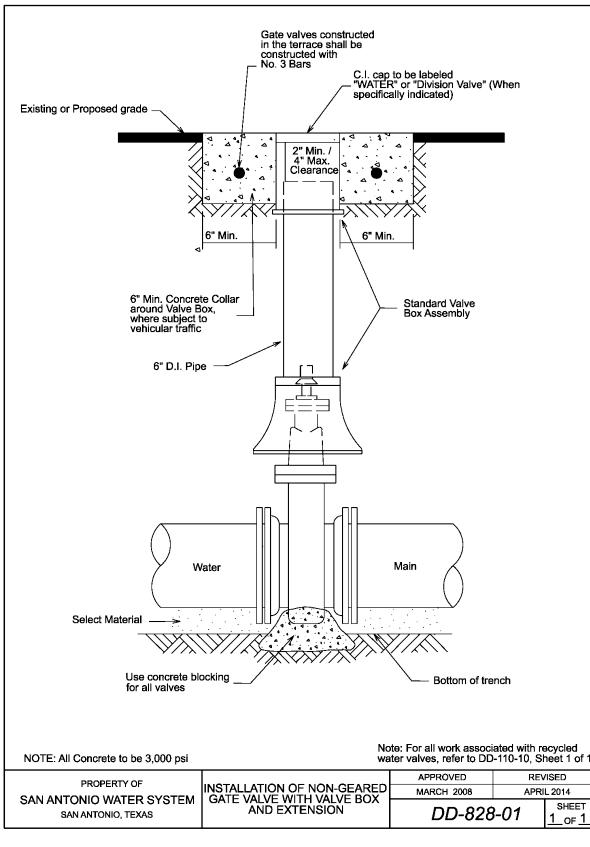


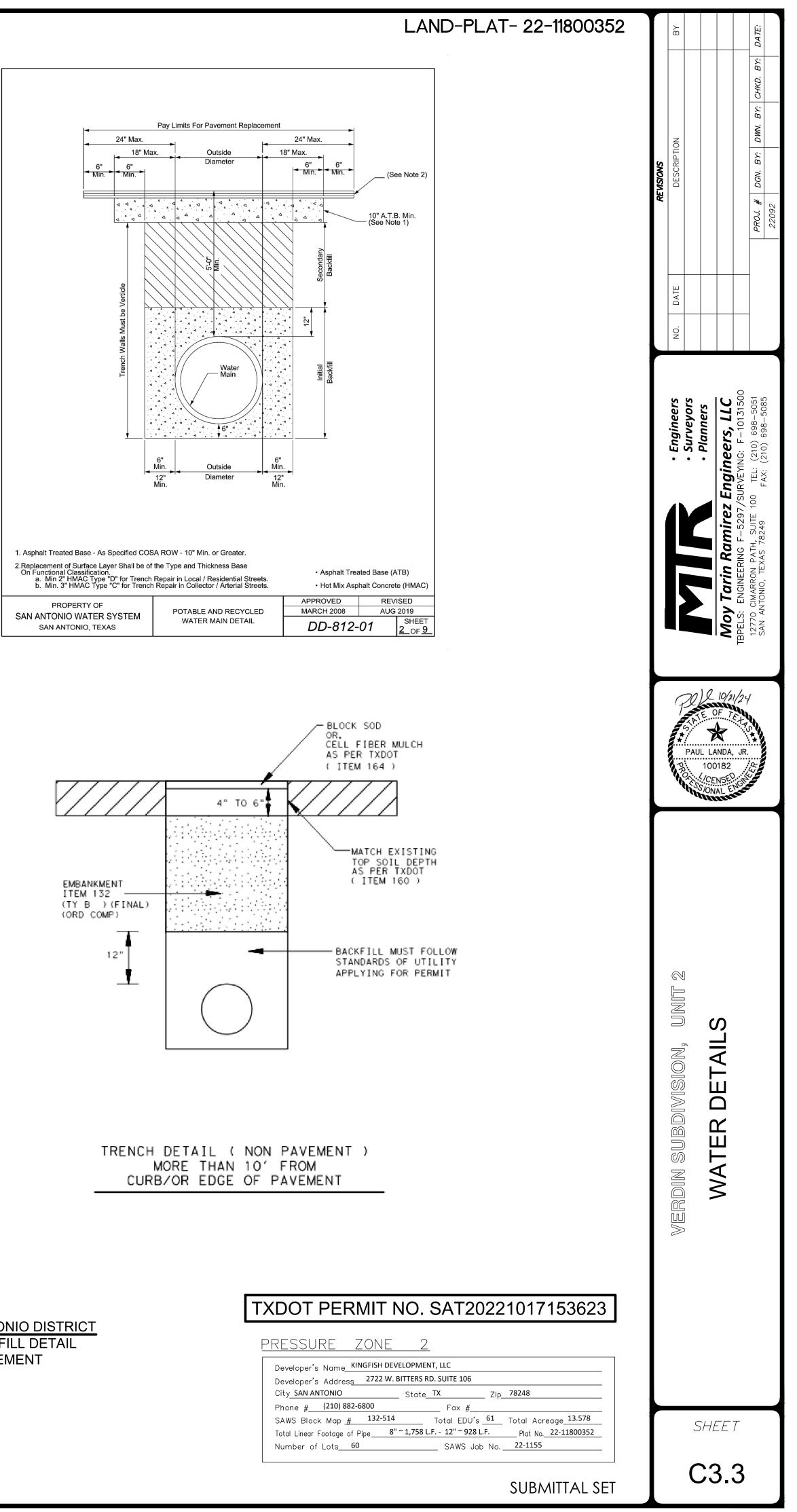


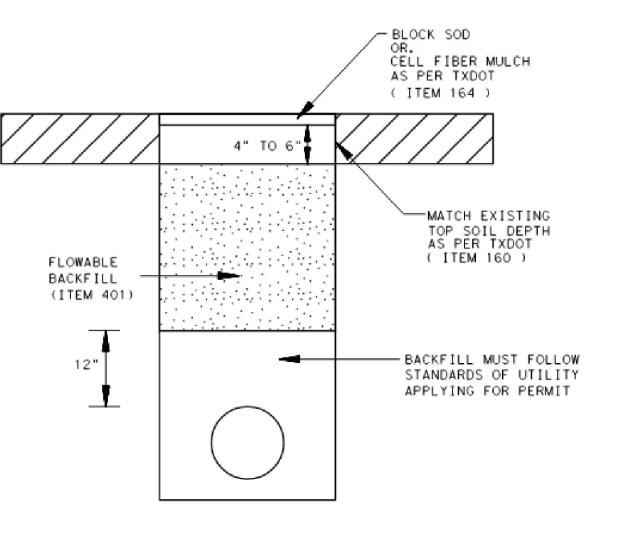




s: October 23, 2024 User ID: Donald McCroskey ker Tract\Unit 2\Drawings\22092_C3.2-C3.3 Water Details.dwg







TRENCH DETAIL (NON PAVEMENT) LESS THAN OR EQUAL TO 10' FROM CURB/OR EDGE OF PAVEMENT

NOTES:

PIPE 24" OR LESS USE 1' FROM O/D OF PIPE TO EXCAVATED WALLS
 PIPE 24" OR GREATER USE 2' FROM O/D OF PIPE TO EXCAVATED WALLS

TX-DOT SAN ANTONIO DISTRICT TRENCH BACKFILL DETAIL NON PAVEMENT

NOTES:

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE TO THE CITY OF SAN ANTONIO SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- 2. ALL CONSTRUCTION IS SUBJECT TO INSPECTION AND APPROVAL BY THE CITY OF SAN ANTONIO.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES DURING CONSTRUCTION. THE LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION: SAN ANTONIO WATER SYSTEM TEXAS STATE WIDE ONE CALL LOCATOR TELE. NO.: 210-704-7109 TEXAS STATE WIDE ONE CALL LOCATOR TELE. NO.: 800-545-6005
 - CITY PUBLIC SERVICE AT&T TIME WARNER CABLE
- 4. DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, CPS MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.
- 5. THE CONTRACTOR HAS THE RESPONSIBILITY TO PROTECT AND SUPPORT THE TELEPHONE COMPANY DURING CONSTRUCTION.
- THE CONTRACTOR HAS THE RESPONSIBILITY OF RESTORING TO ITS ORIGINAL OR BETTER CONDITION, ANY DAMAGE DONE TO THE EXISTING PAVEMENT, STRUCTURES OR FENCES (NO SEPARATE PAY ITEM).
- 7. MATERIAL SPECIFICATIONS:
 - CONCRETE/CONCRETE RIPRAP: CLASS A 3000 PSI IN 28 DAYS UNLESS OTHERWISE NOTED ON PLANS REINFORCING STEEL: CONFORM TO A.S.T.M. A-615, GRADE 60
 - (2" COVER UNLESS OTHERWISE NOTED ON PLANS) PIPE RAILING: CONFORM TO A.S.T.M. A-53, GRADE B, OR A-501 STRUCTURAL STEEL: CONFORM TO A.S.T.M. A-36
- 8. CONTRACTOR TO COORDINATE CONCRETE CURB DEPRESSIONS WITH THE
- DEVELOPER (NO SEPARATE PAY ITEM).
- TRANSITION TO/FROM WASHOUT CROWNS IN TWENTY-FIVE FEET (25').
 IMPROVED EARTHEN CHANNELS WILL BE VEGETATED BY SEEDING OR SODDING. EIGHTY-FIVE PERCENT OF THE CHANNEL SUBGRADE AREA MUST HAVE ESTABLISHED VEGETATION BEFORE THE CHANNEL IS ACCEPTED FOR MAINTENANCE. REFER TO THE CITY OF SAN ANTONIO UDC, APPENDIX H- STORM WATER DESIGN CRITERIA MANUAL, CHAPTER 16.2.1 -GRASSES. NO EXTRA PAY ITEM.

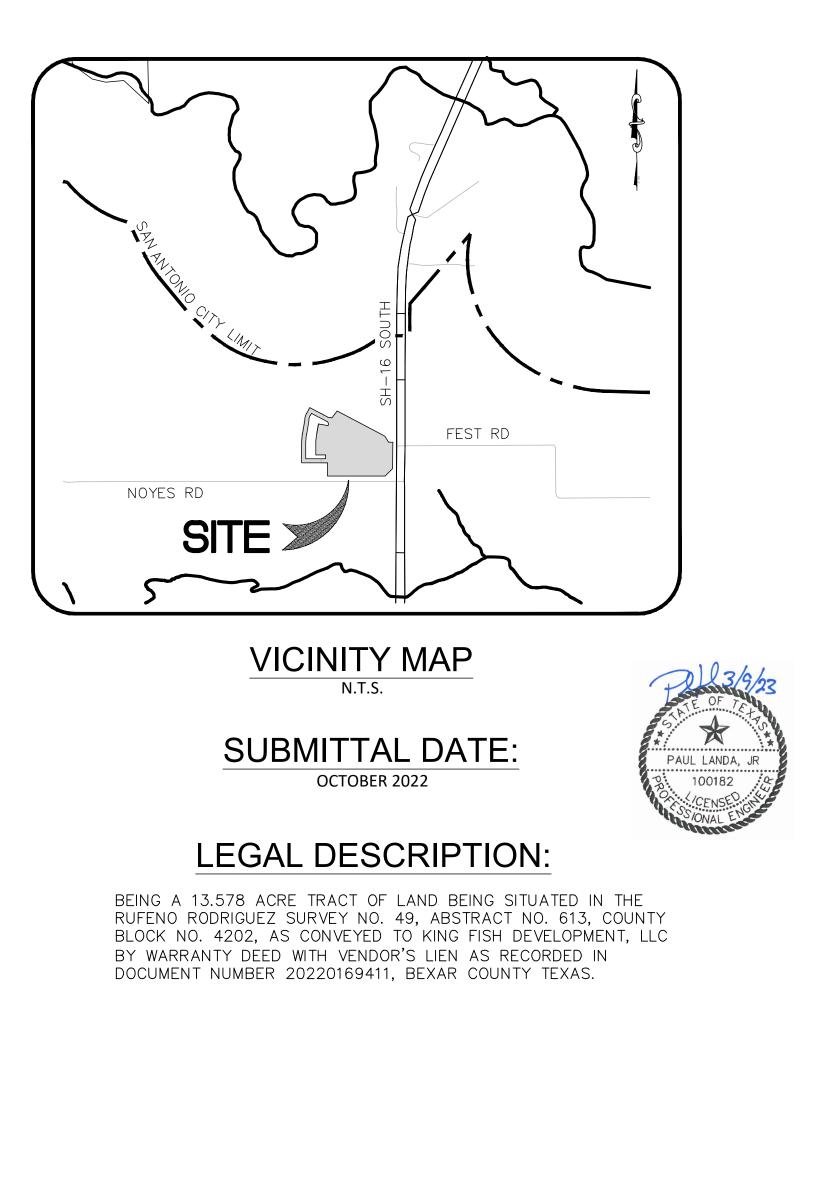
LEGEND

CONTRACTOR TO TIE EXISTING AND PROPOSED CURB/SIDEWALK. PRIOR TO CONSTRUCTION CONTRACTOR SHALL VERIFY ELEVATIONS.	(1)
SIDEWALK WHEELCHAIR RAMP - TYPE 10 DIRECTIONAL RAMPS (SINGLE)	A
SIDEWALK WHEELCHAIR RAMP - TYPE 10 DIRECTIONAL RAMPS (DUAL)	B
SIDEWALK WHEELCHAIR RAMP - TYPE II	©
EXISTING TOP OF CURB ELEVATION	805.81TC
PROPOSED TOP OF CURB ELEVATION	805.81
HOME BUILDER INSTALLED 4' SIDEWALK	
DEVELOPER INSTALLED 4' SIDEWALK	
EXISTING SIDEWALK	
SIDEWALK WHEEL CHAIR RAMP	
WASH-OUT CROWN	
FILL @ 95% COMPACTION	
POSSIBLE DRIVEWAY LOCATION	
PROPERTY LINE	
EXISTING CONTOUR	1120
PROPOSED CONTOUR	1120
PROPOSED CONCRETE CURB	
FLOW ARROW	

VERDIN SUBDIVISION, UNIT 2 STREET AND DRAINAGE IMPROVEMENTS

BEXAR COUNTY

CONSTRUCTION PLANS FOR





PLAT NO. 22-11800352

SUBMITTED BY:

MOY TARIN RAMIREZ ENGINEERS, LLC. 12770 CIMARRON PATH, SUITE 100 SAN ANTONIO, TEXAS 78249 TEL: (210) 698-5051 FAX: (210) 698-5085

OWNER/DEVELOPER

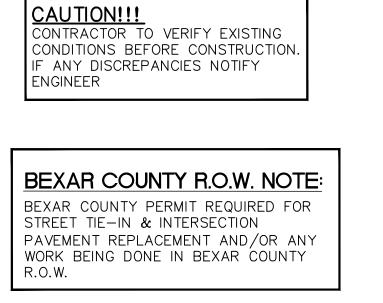
KINGFISH DEVELOPMENT, LLC 2722 W. BITTERS RD. SUITE 106 SAN ANTONIO, TX 78248 (210) 882-6800

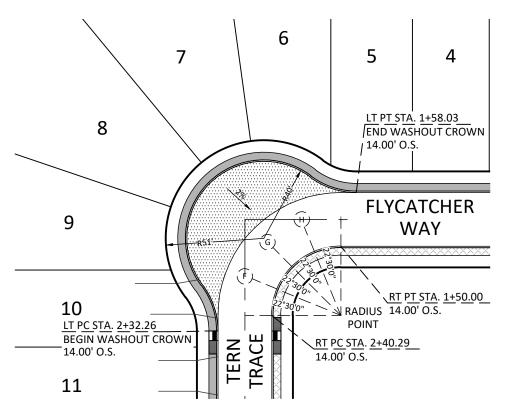
SHEET INDEX

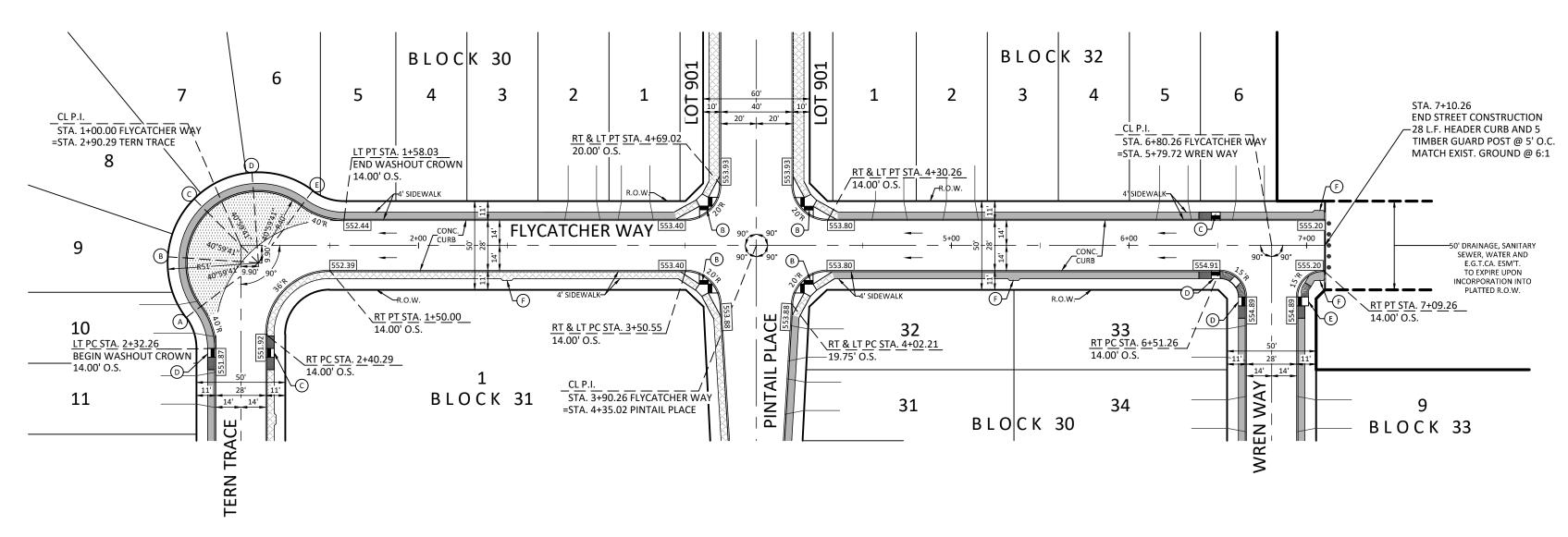
SHEET NO.	TITLE
C4.0	STREET COVER
C4.1	TRAFFIC PLAN
C4.2	TRAFFIC DETAILS
C4.3	TRAFFIC DETAILS
C4.4	FLYCATCHER WAY PLAN AND PROFILE
C4.5	PINTAIL PLACE PLAN AND PROFILE
C4.6	WREN WAY PLAN AND PROFILE
C4.7	TERN TRACE & STILT STREET PLAN AND PROFILE
C4.8	DRAIN "A" PLAN AND PROFILE
C4.9	DRAIN "B" PLAN AND PROFILE
C4.10	TEMPORARY INTERCEPTOR DRAIN "C" PLAN AND PROFILE
C4.11	STANDARD DETAILS
C4.12	STANDARD DETAILS

C4.13 STANDARD STREET SECTIONS

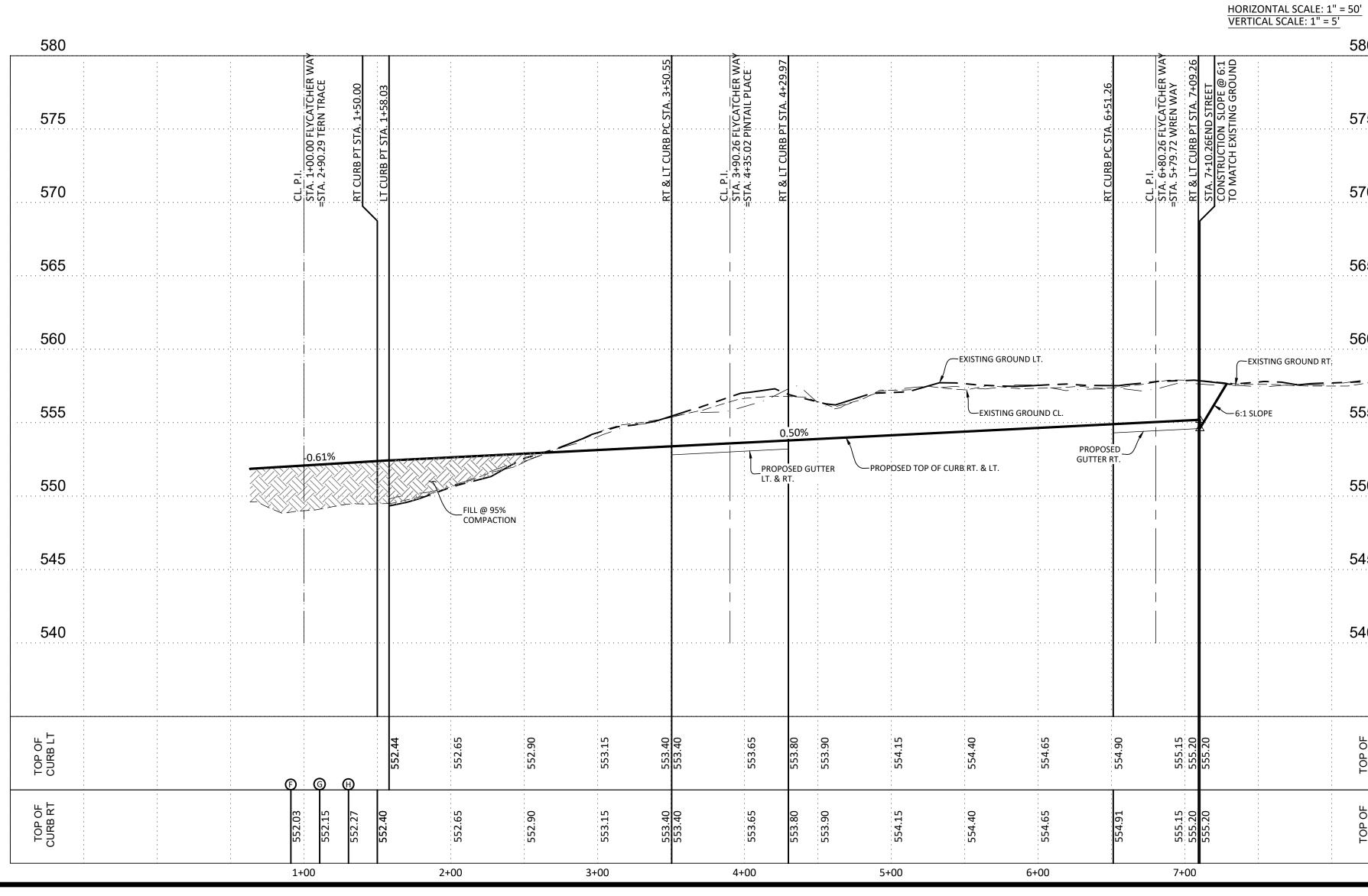
SUBMITTAL SET TEXAS C4.0







KNUCKLE SAC TABLE					
POINT	TOP OF CURB	GUTTER			
LT PC STA. 2+32.26	551.87	551.29			
А	552.10	551.52			
В	552.35	551.77			
С	552.50	551.92			
D	552.53	551.95			
E	552.44	594.23			
F	552.03	594.51			
G	552.15	594.79			
Н	552.40	551.82			
LT PT STA. 1+58.03	552.44	551.86			





	SCALE: 1"=50'	
0	50	100



	CONTRACTOR TO TIE EXISTING AND PROPOSED CURB/SIDEWALK. PRIOR TO CONSTRUCTION CONTRACTOR SHALL VERIFY ELEVATIONS.	
	SHALL VERIFY ELEVATIONS. SIDEWALK WHEELCHAIR RAMP - TYPE 10 DIRECTIONAL RAMPS (SINGLE)	A
100	SIDEWALK WHEELCHAIR RAMP - TYPE 10 DIRECTIONAL RAMPS (DUAL)	В
	SIDEWALK WHEELCHAIR RAMP - TYPE II (DEVELOPER INSTALLED)	Ô
	SIDEWALK WHEELCHAIR RAMP - TYPE I (DEVELOPER INSTALLED)	D
	SIDEWALK WHEELCHAIR RAMP - TYPE 11 (DEVELOPER INSTALLED) OFFSET PARALLEL RAMP	E
	5'x5' PASSING SPACE TO BE INSTALLED EVERY 200' MIN. AND WHEN SIDEWALK ENDS	F
	EXISTING TOP OF CURB ELEVATION	805.81TC
	PROPOSED TOP OF CURB ELEVATION	805.81
	HOME BUILDER INSTALLED SIDEWALK	
	DEVELOPER INSTALLED SIDEWALK	
	EXISTING SIDEWALK	
	SIDEWALK WHEEL CHAIR RAMP	10000000000000000000000000000000000000
	WASH-OUT CROWN	
	FILL @ 95% COMPACTION	
	POSSIBLE DRIVEWAY LOCATION	
	PROPERTY LINE	
	EXISTING CONTOUR	- — — — 1120 — — -
	PROPOSED CONTOUR -	1120

FLOW ARROW

PROPOSED CONCRETE CURB

LEGEND

PLAT NO. 22-11800352

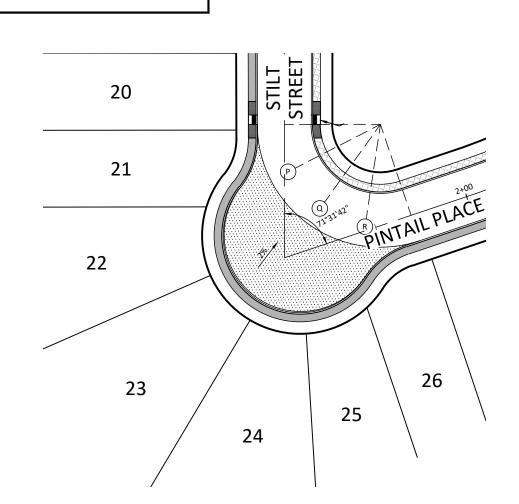


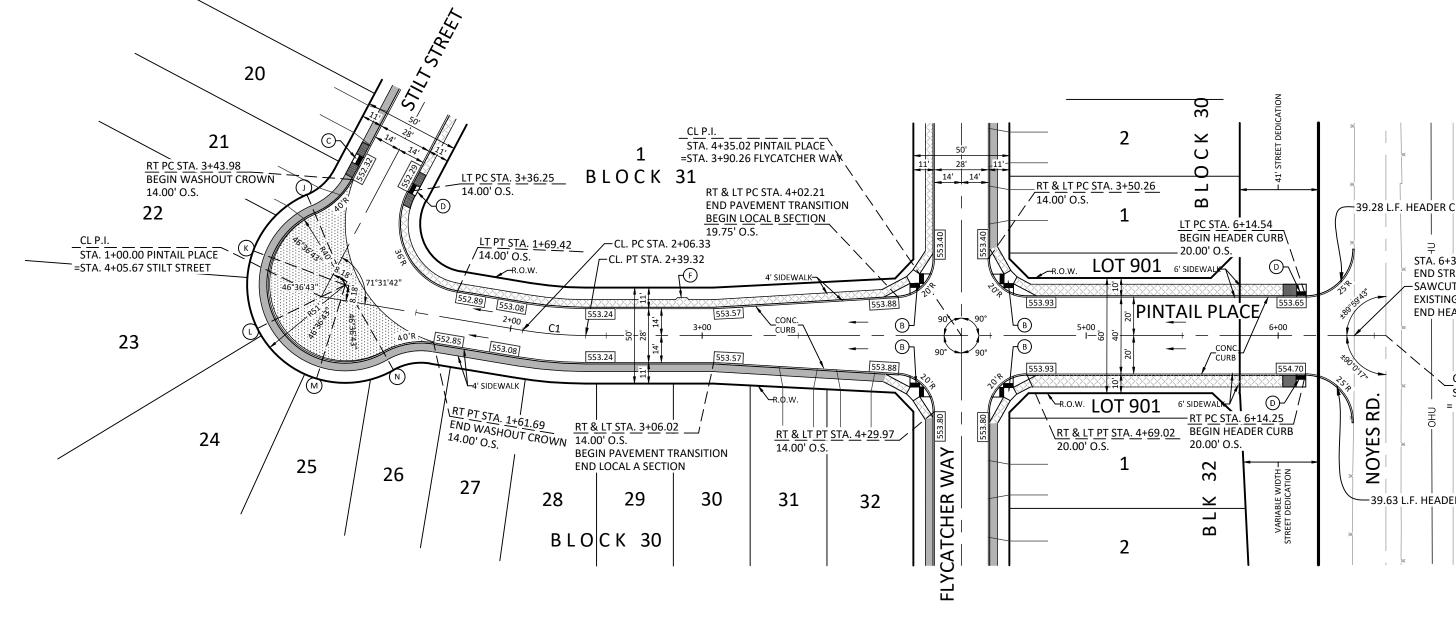
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570		
565		
560		I UNIT ROFIL 'AY 26
555		VERDIN SUBDIVISION UNIT 2 TREET PLAN & PROFILE FLYCATCHER WAY STA. 1+00.00 TO STA. 7+10.26
550		N SUBC T PLA YCATC
545		VERDIN STREET FLY
540		0)
TOP OF CURB LT		
TOP OF CURB RT		SHEET
TO	SUBMITTAL SET	C4.4

CAUTION!!! CONTRACTOR TO VERIFY EXISTING CONDITIONS BEFORE CONSTRUCTION. IF ANY DISCREPANCIES NOTIFY ENGINEER

KNUCKLE SAC TABLE				
POINT	TOP OF CURB	GUTTER		
RT PC STA. 3+43.98	552.32	551.74		
J	552.60	552.02		
к	552.91	552.33		
L	553.08	552.50		
М	553.09	552.51		
Ν	552.94	594.23		
RT PT STA. 1+61.69	552.85	552.27		

BEXAR COUNTY P.O.W. NOTE: BEXAR COUNTY PERMIT REQUIRED FOR STREET TIE-IN & INTERSECTION PAVEMENT REPLACEMENT AND/OR ANY WORK BEING DONE IN BEXAR COUNTY R.O.W.





575 570 565 565 560 5555 560 5550 545 545 540 1 0 00000000000000000000000000000000000	580	······
565 560 555 PROPOSED TOP OF CURB ALONG VALLEY GUTTER 0.64% 550 EXISTING GROUND CL FILL @ 95% COMPACTION 545 540 U GP U GP	575	INTAIL PLACE
565 560 555 PROPOSED TOP OF CURB ALONG VALLEY GUTTER 0.64% 550 EXISTING GROUND CL FILL @ 95% COMPACTION 545 540 U GP U GP	570	CL. P.I. STA. 1+00.00 P =STA. 4+05.67 S
555 PROPOSED TOP OF CURB ALONG VALLEY GUTTER 0.64% 550 EXISTING GROUND CL. FILL @ 95% COMPACTION 545 540	565	
PROPOSED TOP OF CURB ALONG VALLEY GUTTER 0.64% 550 EXISTING GROUND CL. FILL @ 95% COMPACTION 545 540	560	
550 EXISTING GROUND CL. FILL @ 95% COMPACTION 545 540 U D D D D D D D D D D D D D D D D D D D		
545 540 540 LI agano LI agano	P	
TOP OF CURB LT CURB LT 552.44 (CURB LT 552.59 (CURB LT	550	
TOP OF CURB RT 552.44 ③		FILL @ 95%
TOP OF CURB RT 552.44 ③	545	FILL @ 95%
TOP OF CURB RT 552:44	545	FILL @ 95%
1+00	545 540	FILL @ 95% COMPACTION
	545 540 LINBLT TO POF OF DOF DOF DOF DOF DOF DOF DOF DOF DO	FILL @ 95% COMPACTION

e: March 7, 2023 User ID: Alyssa Ramones sker Trachtlinit 2\Drawinas\22092 C4.5-Pintoil Place Plan and Profile dwo

CURVE TABLE						
CURVE LENGTH RADIUS DELTA TANGENT CH						CHORD
	C1	32.99'	200.00'	9°27'01"	16.53'	32.95'

STA. 1+00.00 TO STA. 6+39.58

HORIZONTAL SCALE: 1" = 50' VERTICAL SCALE: 1" = 5' 580 СЕ १ WA 9.02 DN TACE 2.21 CL. P.I. STA. 4+35.02 PINTAIL PLACE =STA. 3+90.26 FLYCATCHER \ STA. 6+39.58 END STREET CONSTRUCTIOI SAWCUT, REMOVE & REPLA ±78 L.F. EXISTING ASPHALT AND TIE INTO PAVEMENT RT & LT PVI STA 3+85.00 PVI ELEV 553.97 (NO VC) RT & LT CURB PC STA. 4+02 <u>RB PC STA. 6+14.54</u> RB PC STA. 6+14.25 575 570 ╘╹╘ RT CURVE DATA PVI STA: 5+50.00 PVI ELEV: 555.03 AD=1.85 K: 53.92 VC: 100.00' 565
 No. 100.00

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 EVCS: EVCE 560 EXISTING GROUND RT. -EXISTING GROUND LT. EXISTING GROUND CL.-<u>1.59%</u> RT 555 ___-0.50% RT 35% - - - 0.50% RT / -0.50% 0.50% (RT) PROPOSED TOP OF CURB RT. & LT. -0.50% LT --2.13% LT FILL @ 95% COMPACTION -PROPOSED TOP OF CURB RT. & LT PROPOSED GUTTER 0.33% LT 550 LT. & RT. LT CURVE DATA PVI STA: 5+50.00 PVI ELEV: 555.03 AD=3.49 K: 28.68 VC: 100.00' BVCE: 554.3 BVCS: 5+00 EVCE: 553.5 EVCS: 6+00 545 HIGH PT. STA: 5+38.84 HIGH PT ELEV: 554.61 540 TOP OF CURB LT 553.79 553.97 553.89 553.88 553.54 :4 35 96 65 29 553. 53. 554. 553 553 10 TOP OF CURB RT 553.54 553.97 553.89 553.88 553.79 29 85 554 554 2+00 3+00 5+00 6+00 4+00

	PLAT NO. 22-118	300352		BҮ		TF.	
	LEGEND						
SCALE: 1"=50'	CONTRACTOR TO TIE EXISTING AND PROPOSED CURB/SIDEWALK. PRIOR TO CONSTRUCTION CONTRACTOR SHALL VERIFY ELEVATIONS.	1					
0 50 100	SIDEWALK WHEELCHAIR RAMP - TYPE 10 DIRECTIONAL RAMPS (SINGLE)	A					ונ
	SIDEWALK WHEELCHAIR RAMP - TYPE 10 DIRECTIONAL RAMPS (DUAL)	B	SI	SCRIPTION		ې ت	:
	SIDEWALK WHEELCHAIR RAMP - TYPE II (DEVELOPER INSTALLED)	©	REVISIONS	DESC			
	SIDEWALK WHEELCHAIR RAMP - TYPE I (DEVELOPER INSTALLED)	D				PROJ. #	
	SIDEWALK WHEELCHAIR RAMP - TYPE 11 (DEVELOPER INSTALLED) OFFSET PARALLEL RAMP	E					
	5'x5' PASSING SPACE TO BE INSTALLED EVERY 200' MIN. AND WHEN SIDEWALK ENDS	F		DATE			
RCURB	EXISTING TOP OF CURB ELEVATION	805.81TC		DA			
	PROPOSED TOP OF CURB ELEVATION	805.81		NO.			
5+39.58 TREET CONSTRUCTION CUT, REMOVE & REPLACE ±78 L.F.	HOME BUILDER INSTALLED SIDEWALK		┝				\prec
NG ASPHALT AND TIE INTO PAVEMENT IEADER CURB	DEVELOPER INSTALLED SIDEWALK					0	
	EXISTING SIDEWALK			neers	eyors ners		
CL P.I STA. 6+56.06 PINTAIL PLACE = EXISTING NOYES RD	SIDEWALK WHEEL CHAIR RAMP	00000000000000000000000000000000000000		• Enginee	• Planners	ers, : F-1 10) 69	(210)
	WASH-OUT CROWN					Engine surveying: 0 tel: (21	FAX
DER CURB	FILL @ 95% COMPACTION			1		Te 1 0	640
	POSSIBLE DRIVEWAY LOCATION						
	PROPERTY LINE					S EE	o, TEÿ
	EXISTING CONTOUR	- — -1120 - —					ANTONIO,
	PROPOSED CONTOUR	1120					
	PROPOSED CONCRETE CURB		ו י			TBPEL 1277	SA

FLOW ARROW

SHEET

C4.5

SUBMITTAL SET

PAUL LANDA, JR.

100182

CONAL ENGE

CENSE A

ON UNIT 2 PROFILE

 ∞

PLAN

ΕŢ

STRE

20

PLACE

PINTAIL

CAUTION!!!

CONTRACTOR TO VERIFY EXISTING CONDITIONS BEFORE CONSTRUCTION. IF ANY DISCREPANCIES NOTIFY ENGINEER

BEXAR COUNTY R.O.W. NOTE: BEXAR COUNTY PERMIT REQUIRED FOR STREET TIE-IN & INTERSECTION PAVEMENT REPLACEMENT AND/OR ANY WORK BEING DONE IN BEXAR COUNTY R.O.W.

KNUCKLE SAC TABLE

POINT

RT PT STA. 1+54.31

А

В

С

D

Е

LT PT STA. 1+54.31

TOP OF CURB

551.93

551.34

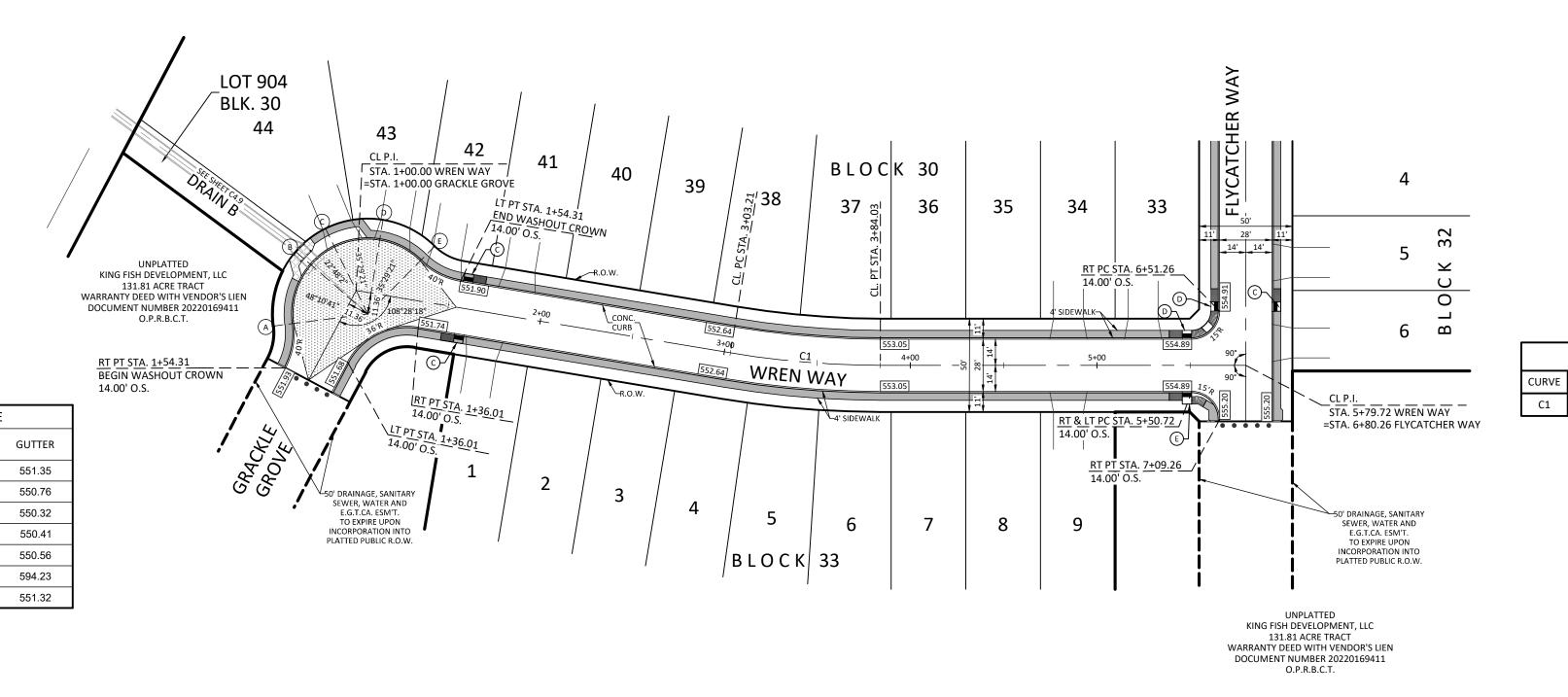
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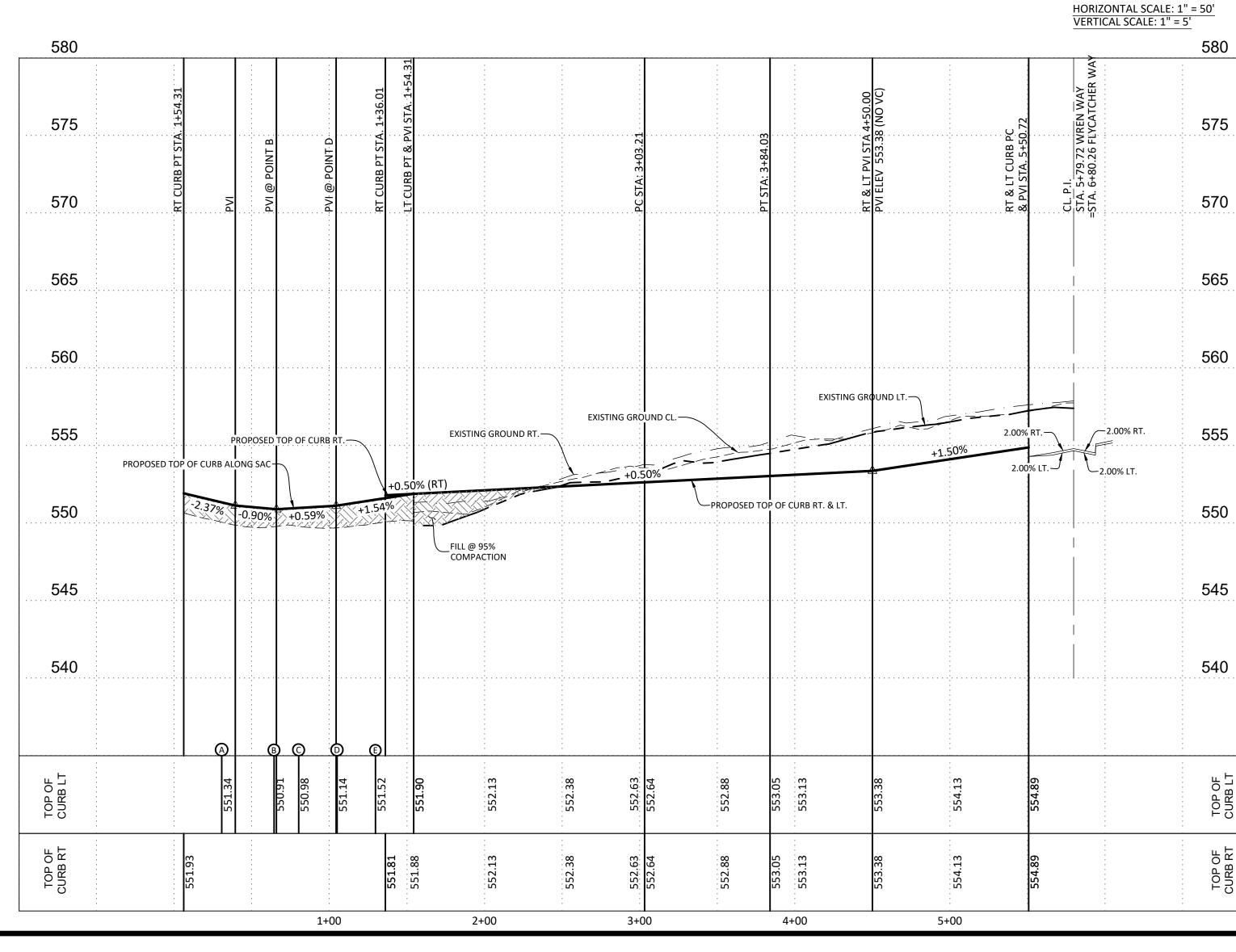
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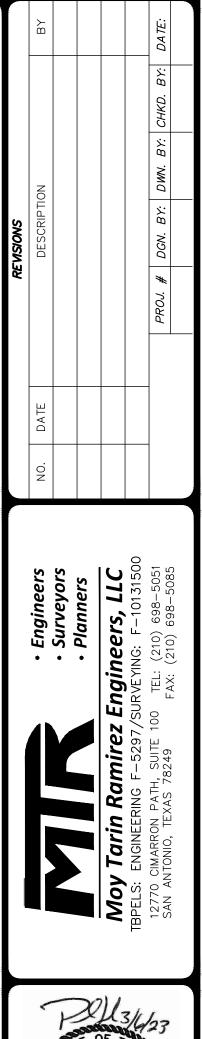




		Z	
	SCAL	E: 1"=50'	
0		50	100

	CURVE TABLE							
LENGTH RADIUS DELTA TANGENT CHORE								
80.82' 490.00' 9°27'01" 40.50' 80.73'								

PLAT NO. 22-1	1800352
LEGEND	
CONTRACTOR TO TIE EXISTING AND PROPOSED CURB/SIDEWALK. PRIOR TO CONSTRUCTION CONTRACTO SHALL VERIFY ELEVATIONS.	DR (1)
SIDEWALK WHEELCHAIR RAMP - TYPE 10 DIRECTIONAL RAMPS (SINGLE)	A
SIDEWALK WHEELCHAIR RAMP - TYPE 10 DIRECTIONAL RAMPS (DUAL)	B
SIDEWALK WHEELCHAIR RAMP - TYPE II (DEVELOPER INSTALLED)	C
SIDEWALK WHEELCHAIR RAMP - TYPE I (DEVELOPER INSTALLED)	D
SIDEWALK WHEELCHAIR RAMP - TYPE 11 (DEVELOPER INSTALLED) OFFSET PARALLEL RAMP	E
5'x5' PASSING SPACE TO BE INSTALLED EVERY 200' MIN. AND WHEN SIDEWALK ENDS	F
EXISTING TOP OF CURB ELEVATION	805.81TC
PROPOSED TOP OF CURB ELEVATION	805.81
HOME BUILDER INSTALLED SIDEWALK	
DEVELOPER INSTALLED SIDEWALK	
EXISTING SIDEWALK	
SIDEWALK WHEEL CHAIR RAMP	,0000000000000000000000000000000000000
WASH-OUT CROWN	
FILL @ 95% COMPACTION	
POSSIBLE DRIVEWAY LOCATION	
PROPERTY LINE	
EXISTING CONTOUR	- — — — 1120 — — — — —
PROPOSED CONTOUR	1120
PROPOSED CONCRETE CURB	
FLOW ARROW	





N UNIT 2 PROFILE ٩ ∞ PLAN **—**

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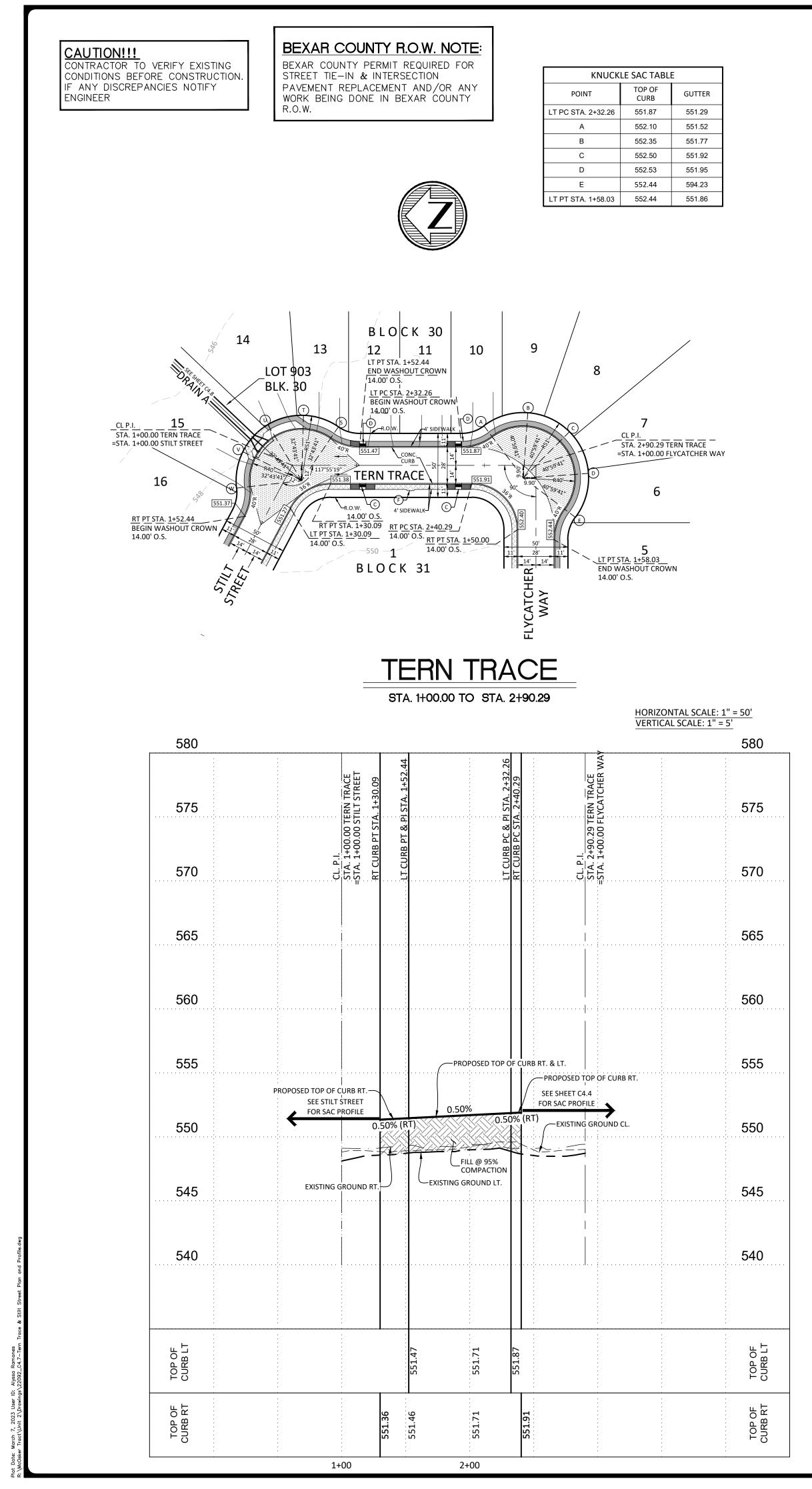
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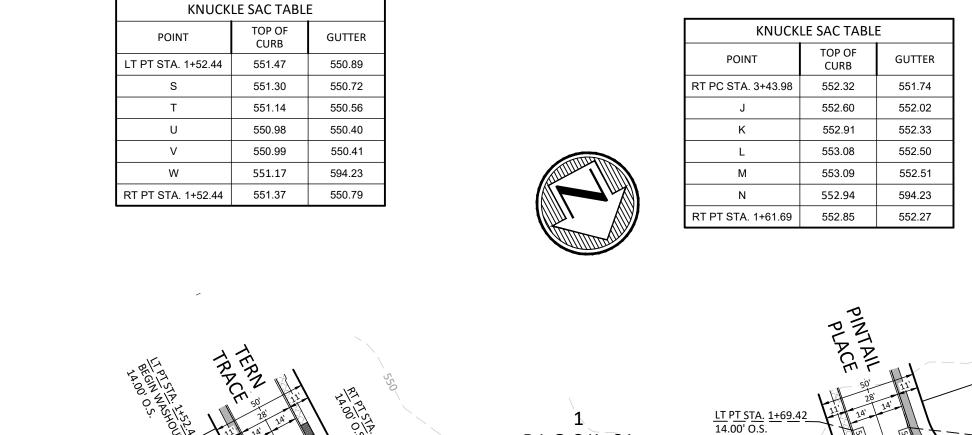
C4.6

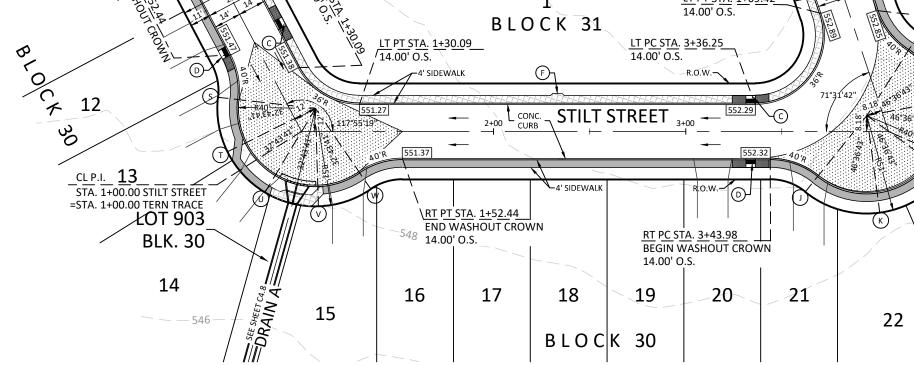
SUBMITTAL SET

TOP OF CURB LT

TOP OF CURB RT

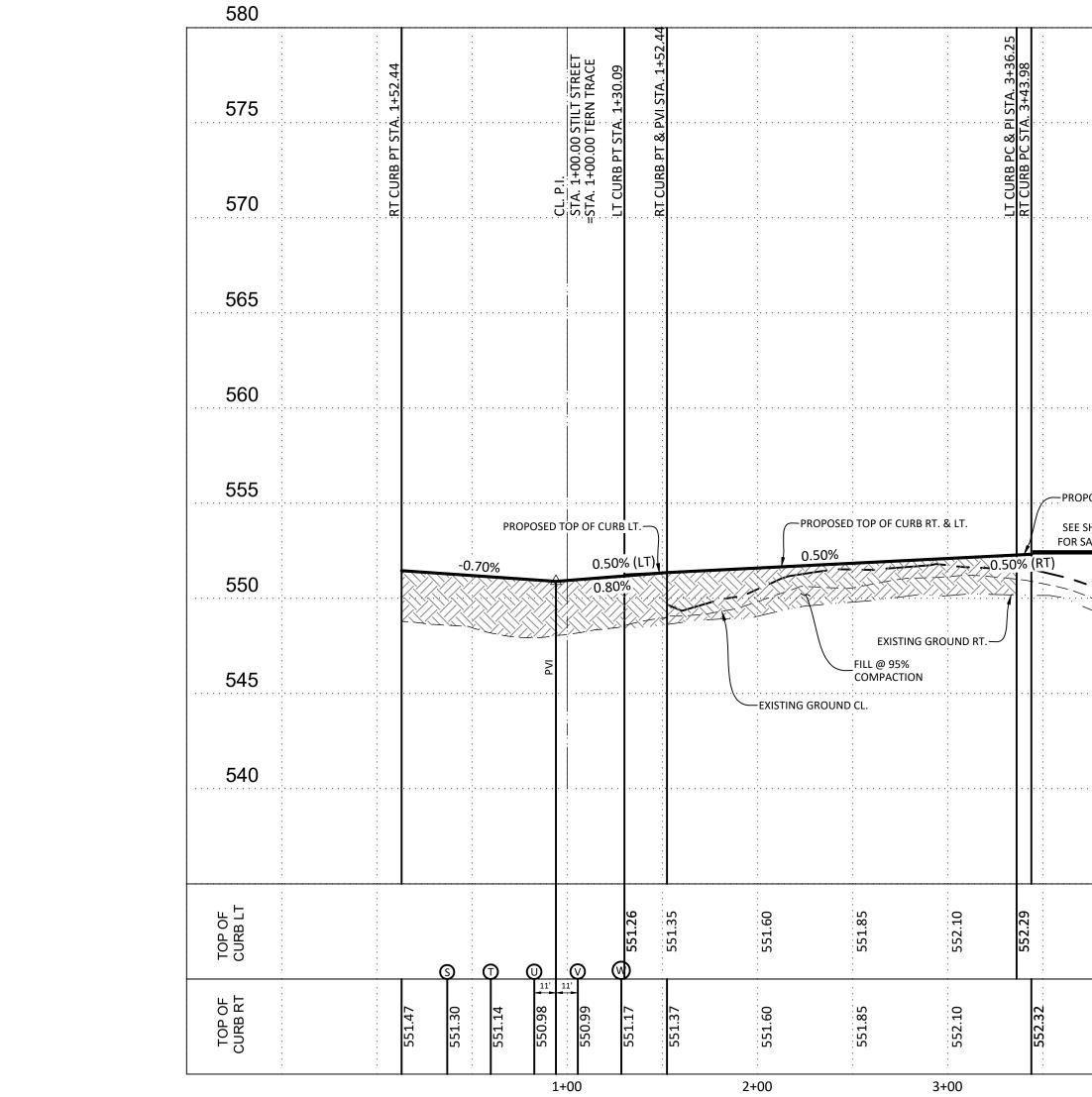




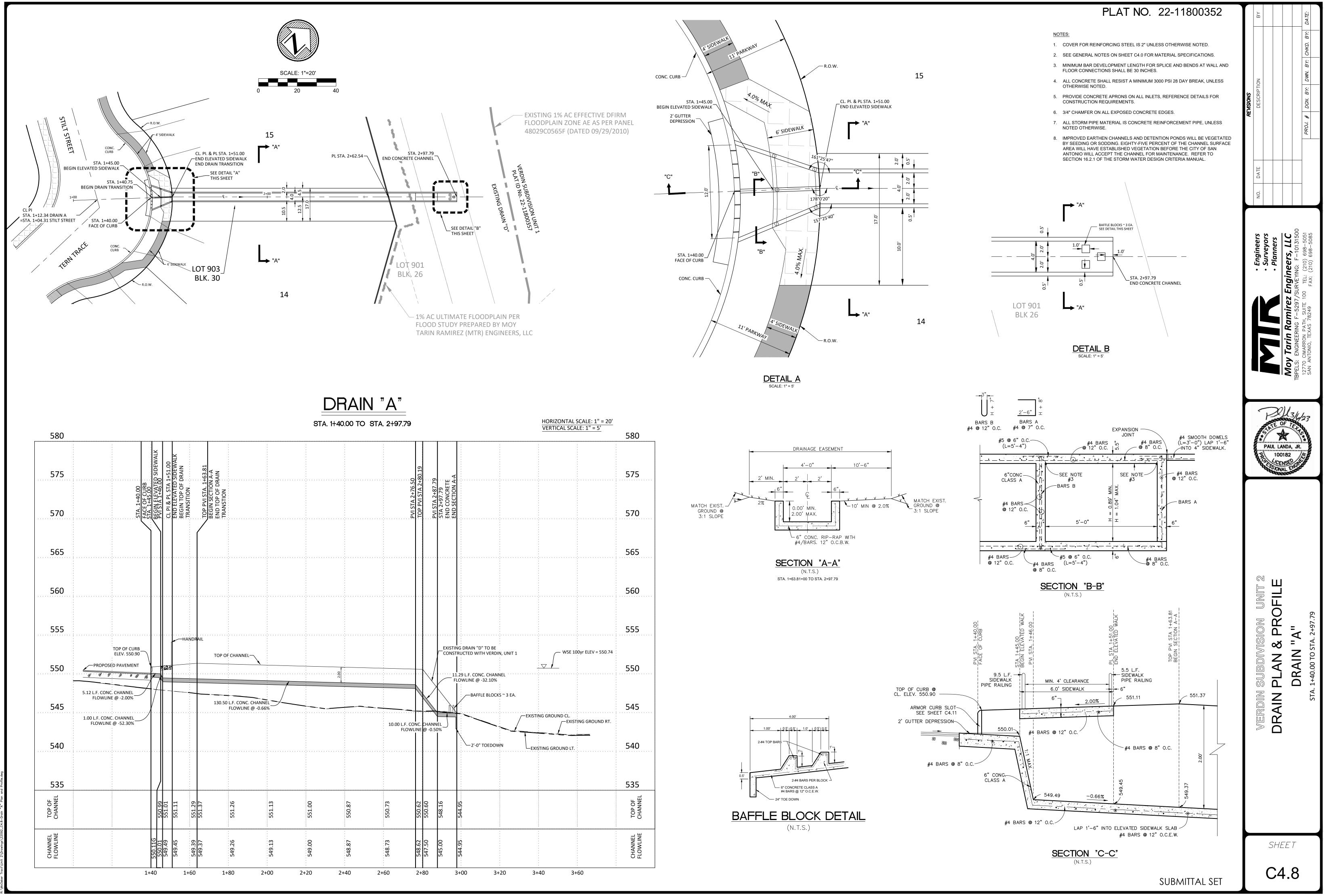


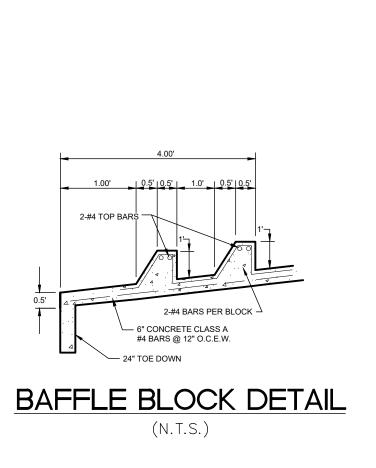


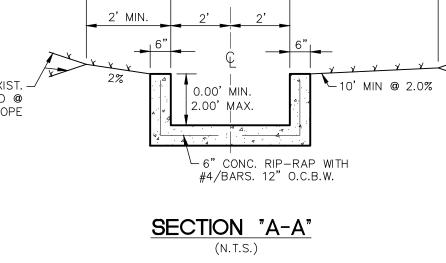


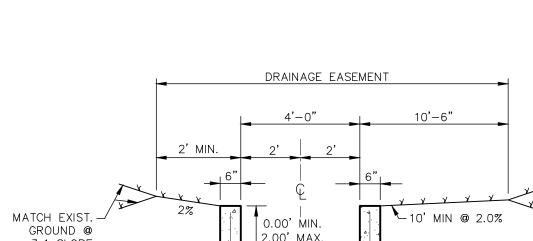


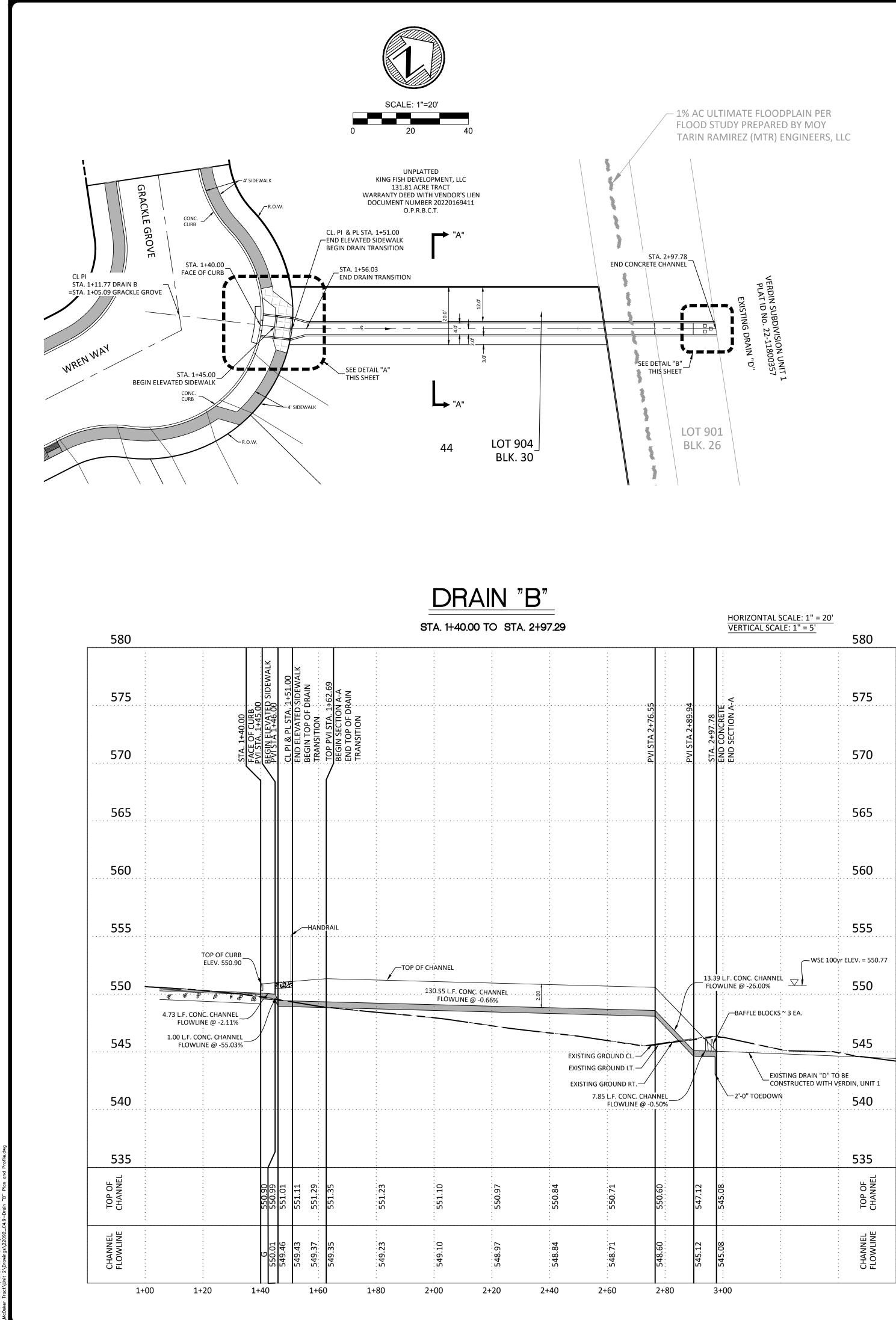
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				PLAT NO. 22-	11800352		B		DATE:
				EXISTING AND PROPOSED OR TO CONSTRUCTION CONTRAC TIONS.	TOR				снкр. ву:
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0	SCALE		SIDEWALK WHEELCH	AIR RAMP - TYPE 10	В		NOIT		BY: DWN.
0	50	0 100	DIRECTIONAL RAMPS	IAIR RAMP - TYPE II	©	REVISIONS	DESCRIPTION		DGN. B
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			(DEVELOPER INSTAL						PROJ.
			(DEVELOPER INSTAL	TO BE INSTALLED EVERY	E				
27			200' MIN. AND WHEN	SIDEWALK ENDS	F		DATE		
27			EXISTING TOP OF CL		805.81TC	-	ON		
	26		HOME BUILDER INST	ALLED SIDEWALK			2		
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14.00 0.3	. 25		EXISTING SIDEWALK				eers yors		F-10131500)) 698-5051) 698-5085
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	24		WASH-OUT CROWN					nair	SURVEYING: 0 TEL: (21 FAX: (21)
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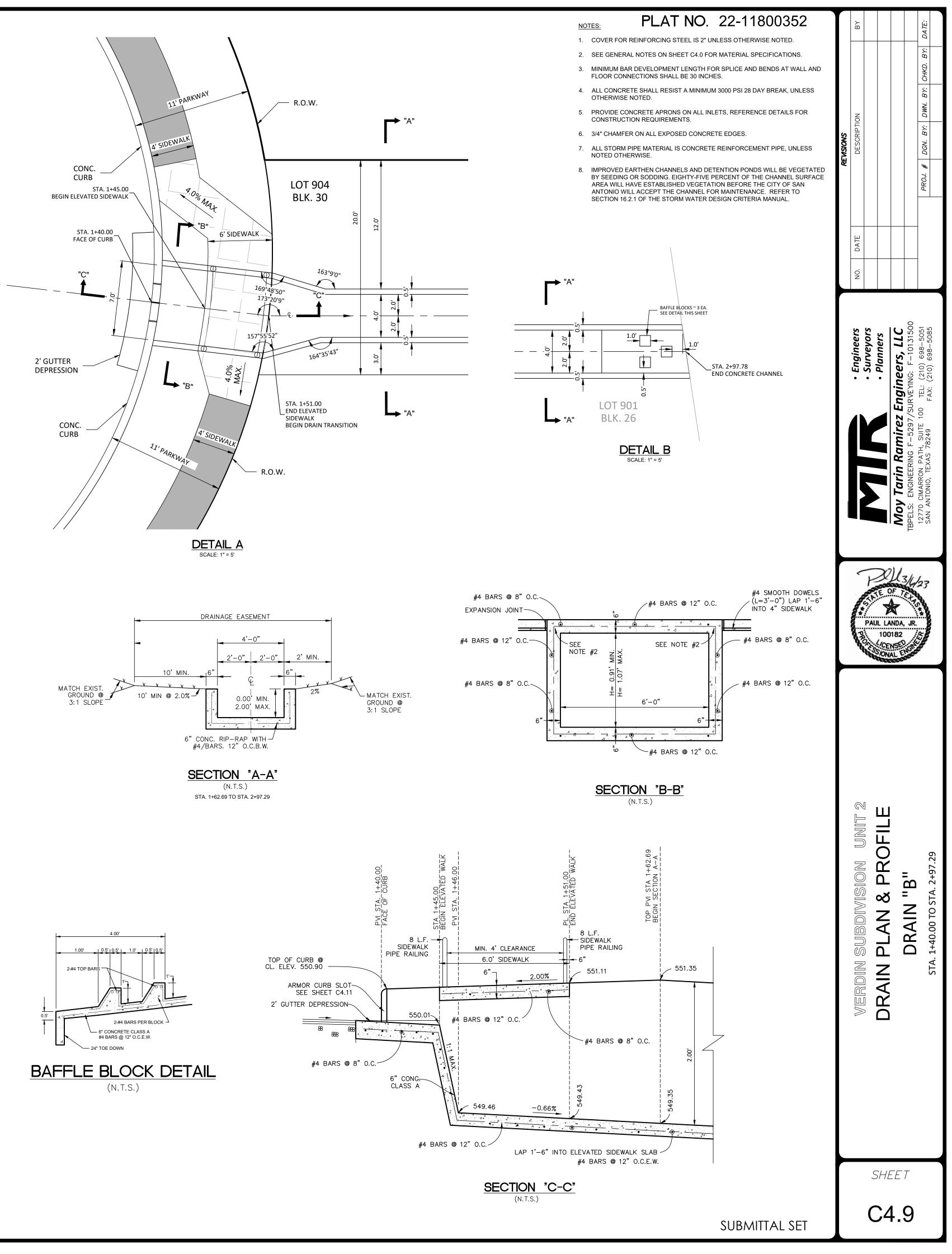


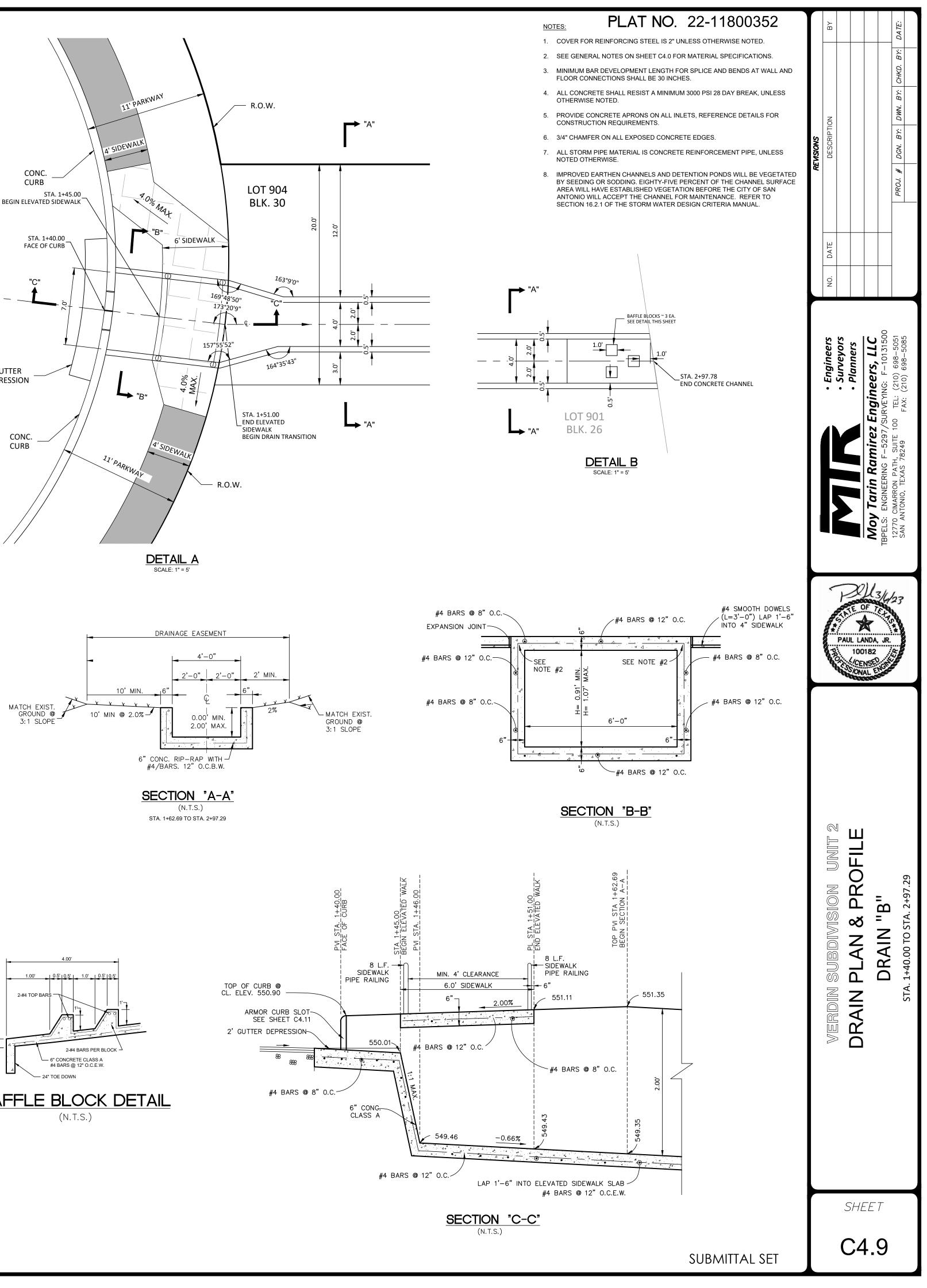


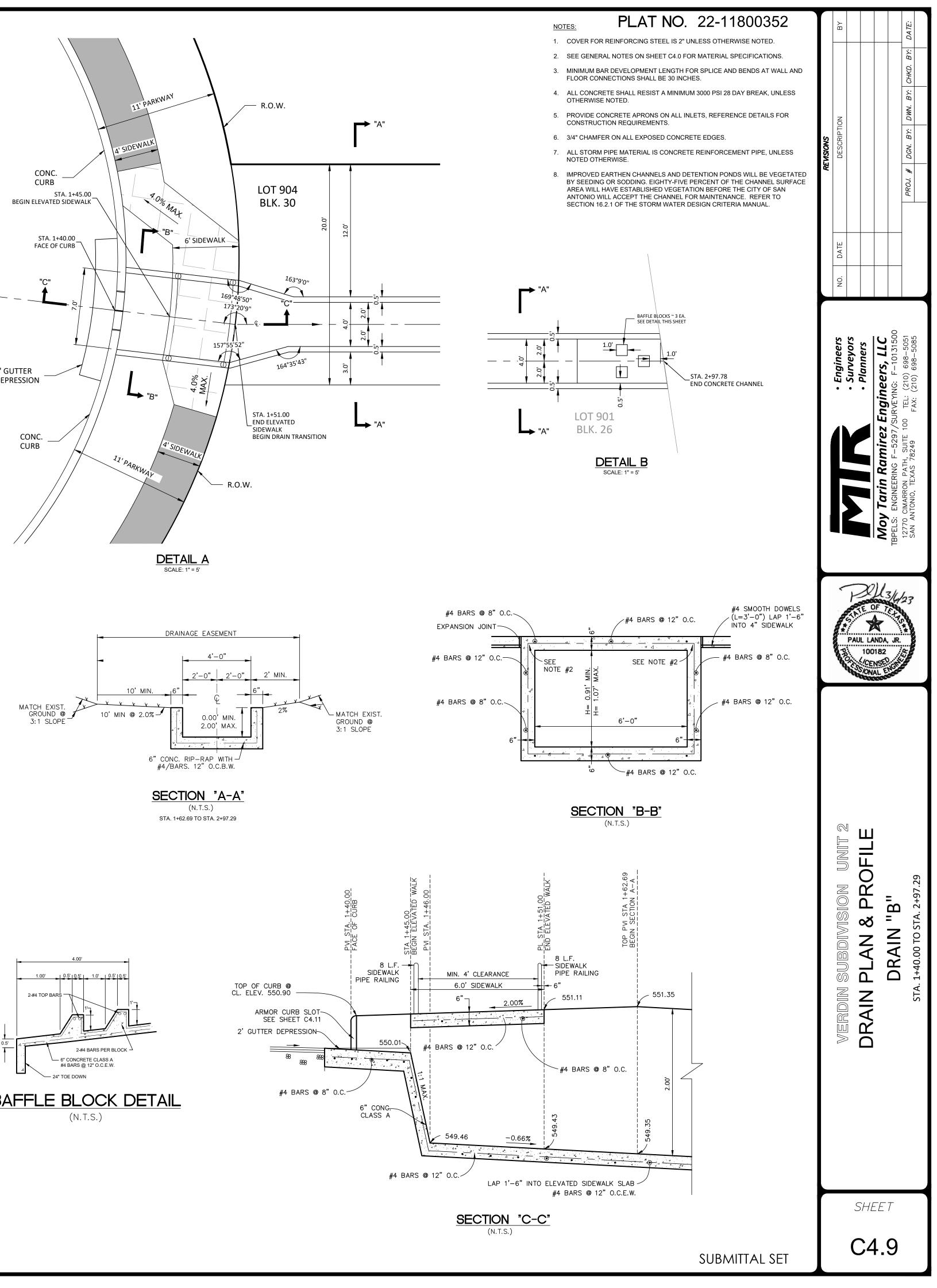


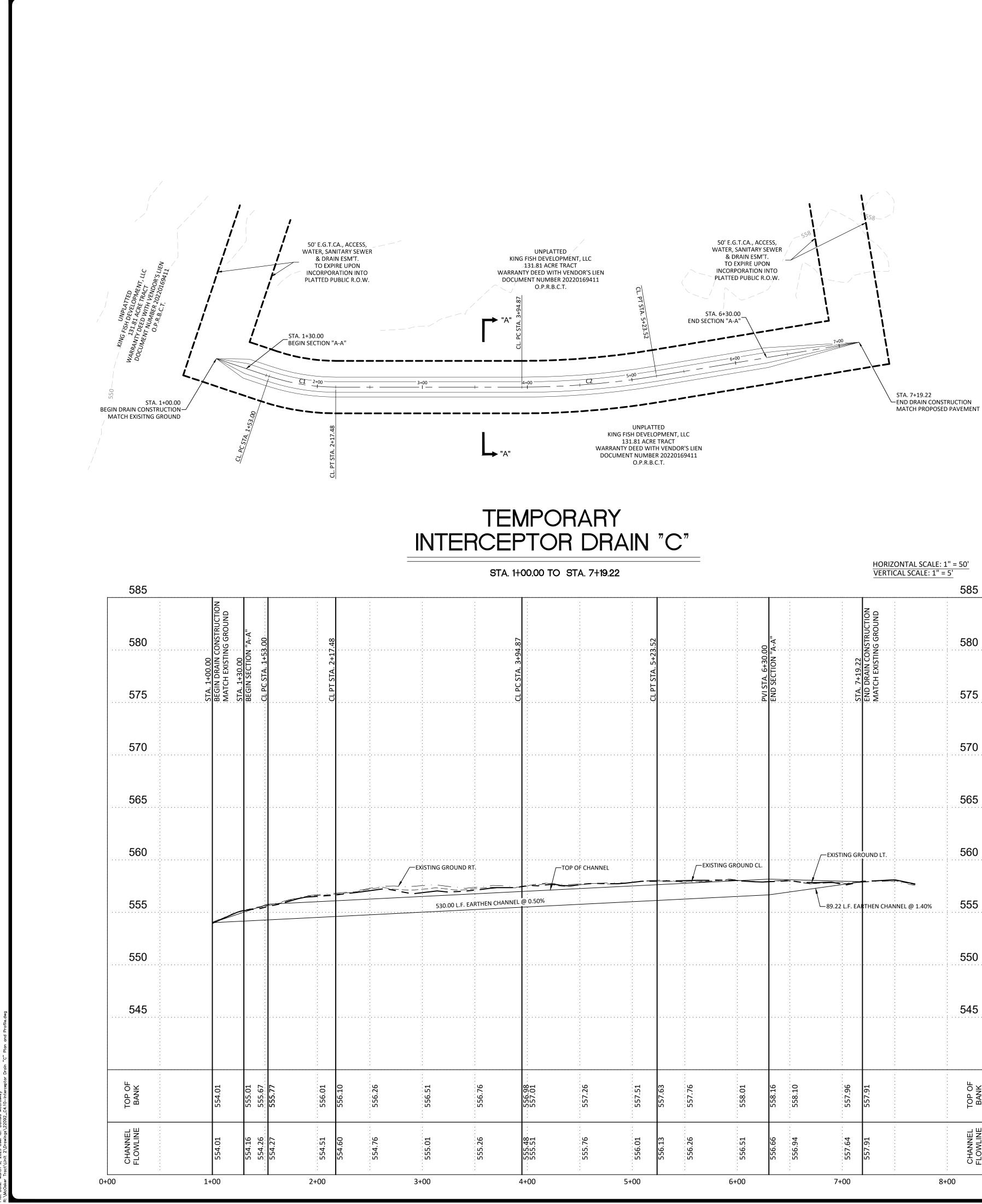




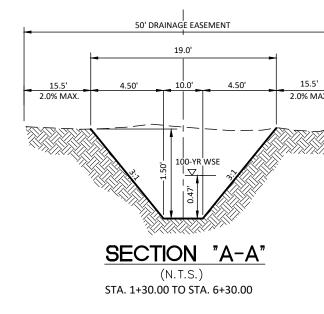












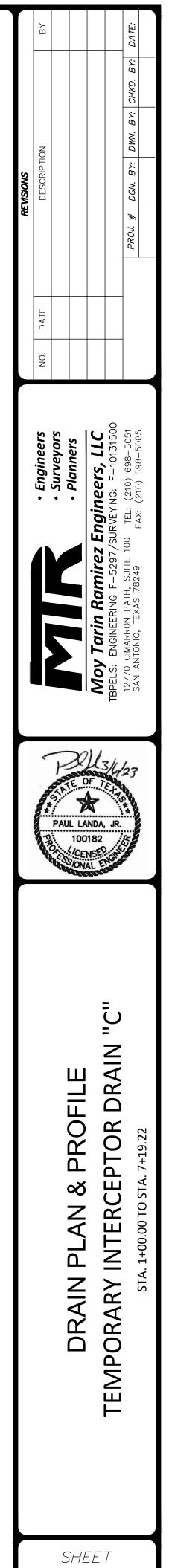
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	CL PT STA. 5+23.			PVI STA. 6+30.	END SECTION "A-A		STA. 7+19.22	END DRAIN CONSTRUCTION MATCH EXISTING GROUND		575
	· · · · · · · ·						· · · · · · · · ·			570
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HANNEL	· · · · · · · · · · · · · · · · · · ·			OUND CL.		EXIST	ING GR	OUND LT.		560
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PLAT NO. 22-11800352

NOTES:

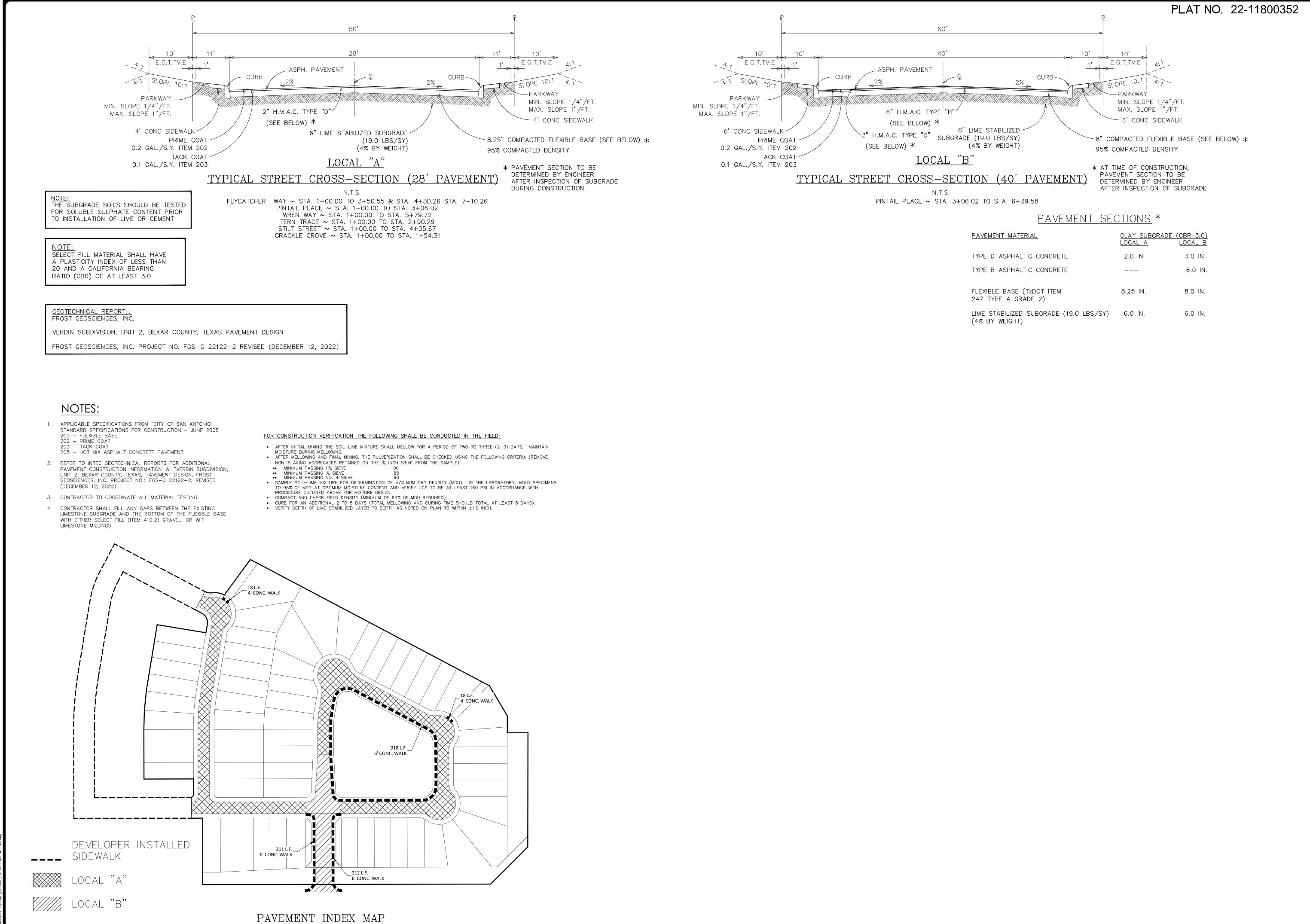
- 1. COVER FOR REINFORCING STEEL IS 2" UNLESS OTHERWISE NOTED.
- 2. SEE GENERAL NOTES ON SHEET C4.0 FOR MATERIAL SPECIFICATIONS.
- 3. MINIMUM BAR DEVELOPMENT LENGTH FOR SPLICE AND BENDS AT WALL AND FLOOR CONNECTIONS SHALL BE 30 INCHES. 4. ALL CONCRETE SHALL RESIST A MINIMUM 3000 PSI 28 DAY BREAK, UNLESS
- OTHERWISE NOTED. 5. PROVIDE CONCRETE APRONS ON ALL INLETS, REFERENCE DETAILS FOR CONSTRUCTION REQUIREMENTS.
- 6. 3/4" CHAMFER ON ALL EXPOSED CONCRETE EDGES.
- 7. ALL STORM PIPE MATERIAL IS CONCRETE REINFORCEMENT PIPE, UNLESS NOTED OTHERWISE.
- 8. IMPROVED EARTHEN CHANNELS AND DETENTION PONDS WILL BE VEGETATED BY SEEDING OR SODDING. EIGHTY-FIVE PERCENT OF THE CHANNEL SURFACE AREA WILL HAVE ESTABLISHED VEGETATION BEFORE THE CITY OF SAN ANTONIO WILL ACCEPT THE CHANNEL FOR MAINTENANCE. REFER TO SECTION 16.2.1 OF THE STORM WATER DESIGN CRITERIA MANUAL.

		CUR	VE TABLE		
CURVE	LENGTH	RADIUS	DELTA	TANGENT	CHORD
C1	64.48'	200.00'	18°28'18"	32.52'	64.20'
C2	128.65'	780.00'	9°27'01"	64.47'	128.51'



SUBMITTAL SET

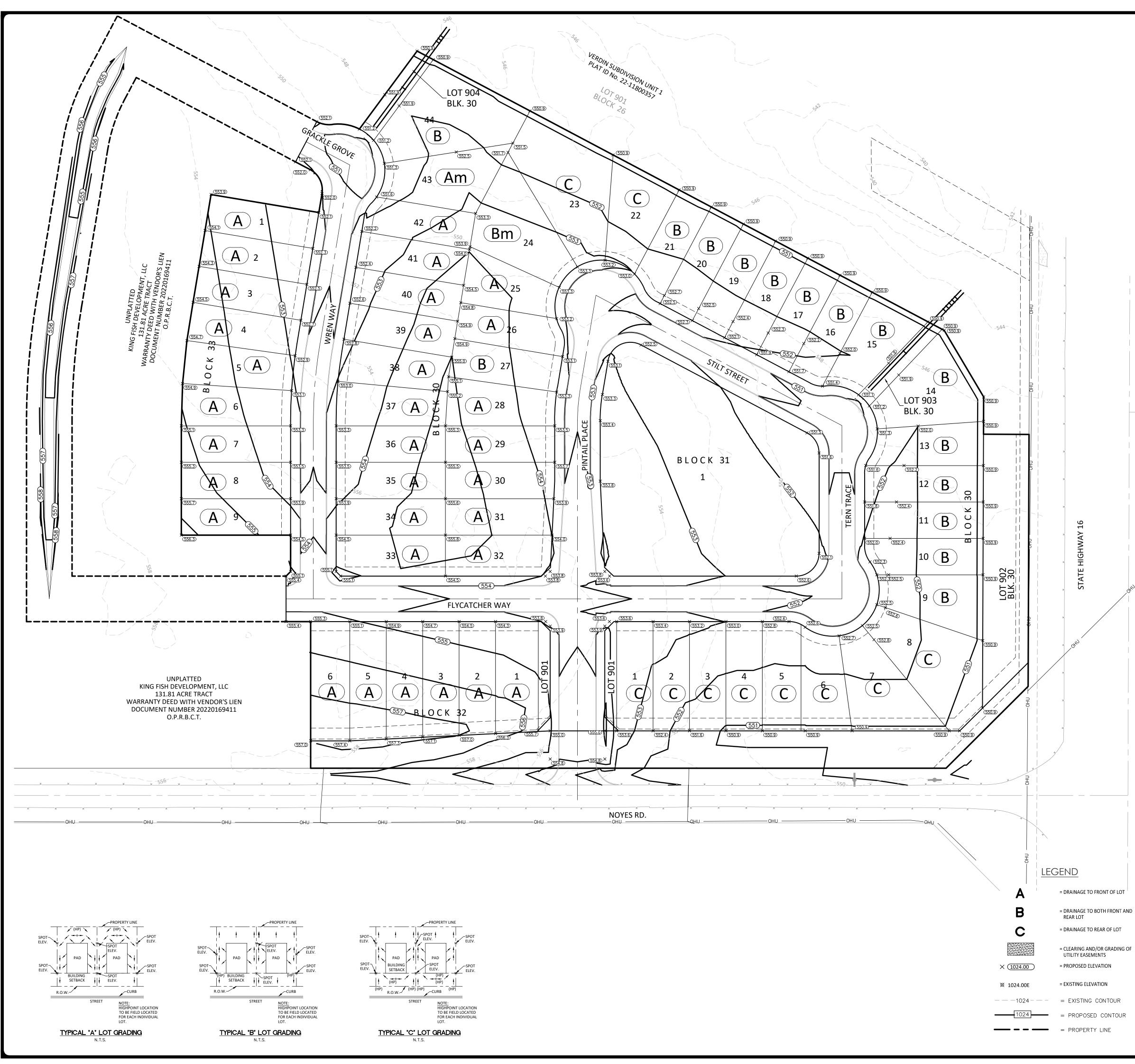
C4.10



247 TYPE A GRADE 2)	0.20 11.	0.0 11.
LIME STABILIZED SUBGRADE (19.0 LBS/SY) (4% BY WEIGHT)	6.0 IN.	6.0 IN.

F					REUSIONS	
(VERDIN SUBDIVISION UNIT 2	A PRO	• Engineers	NO. DATE	DESCRIP TION	BY
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EE _1		NDA NDA	Moy Tarin Ramirez Engineers, LLC			
		JR	TBPELS: ENGINEERING F-5297/SURVEYING: F-10131500			
3		23	12770 CIMARRON PATH, SUITE 100 TEL: (210) 698–5051 San Antonio, texas 78249		PROJ. # DGN. BY: DWN. BY: CHKD. BY: DATE:	DATE:

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LAND-PLAT- 22-11800352

GENERAL SPECIFICATIONS FOR SITE PREPARATION

1. GENERAL DESCRIPTION

THIS ITEM SHALL CONSIST OF ALL CLEARING AND GRUBBING, DEMOLITION, PREPARATION OF LAND TO BE FILLED, FILLING OF THE LAND, SPREADING, COMPACTION TESTING AND INSPECTION OF THE FILL, AND ALL SUBSIDIARY WORK NECESSARY TO COMPLETE THE GRADING OF THE CUT AND FILL AREAS TO CONFORM WITH THE LINES, GRADES AND SLOPES AS SHOWN ON THE APPROVED PLANS ALL LOT GRADING MUST MEET REQUIREMENTS OF FHA/HUD HANDBOOK 4140.3,

SPECIFICATIONS FOR LAND DEVELOPMENTS ON CONTROLLED EARTHWORK, DATASHEET 79g. HUD 79g REQUIREMENTS FOR FILL MATERIAL OF 6 INCHES AND MORE WILL BE CONDUCTED. ALL CUT AREAS WILL ALSO MEET THE REQUIREMENTS FOR HUD 79g COMPACTION TESTING. IN ADDITION, ENGINEERS MUST PROVIDED VERIFICATION OF ALL AREAS WHICH DO NOT REQUIRE HUD 79q.

2. CLEARING THE AREA TO BE FILLED

ALL TIMBER, LOGS, TREES, BRUSH AND RUBBISH SHALL BE REMOVED FROM THE SITE.

3. SCARIFYING THE AREA TO BE FILLED

ALL ORGANIC MATTER SHALL BE REMOVED FROM THE SURFACE UPON WHICH THE FILL IS TO BE PLACED, AND THE SURFACE SHALL THEN BE DISKED OR SCARIFIED TO A MINIMUM DEPTH OF SIX INCHES (6"), ALL SURFACE RUTS OR OTHER UNEVEN FEATURES WILL BE LEVELED PRIOR TO FIELD DENSITY TESTING. WHERE FILLS ARE MADE ON HILLSIDES OR SLOPES, THE SLOPE OF THE ORIGINAL GROUND

UPON WHICH THE FILL IS TO BE PLACED SHALL BE DISKED OR SCARIFIED. WHERE THE SLOPE RATIO OF THE ORIGINAL GROUND IS STEEPER THAN 5 HORIZONTAL TO 1 VERTICAL, THE BANK SHALL BE STEPPED OR BENCHED. GROUND SLOPES WHICH ARE FLATTER THAN 5 TO 1 SHALL BE BENCHED WHEN CONSIDERED NECESSARY BY THE GEOTECHNICAL ENGINEER.

4. COMPACTING THE AREA TO BE FILLED

FOLLOWING THE CLEARING AND DISKING OR SCARIFYING OF THE FILL AREA, IT SHALL BE BLADED UNTIL IT IS UNIFORM AND FREE FROM LARGE CLODS. THE AREA SHALL BE BROUGHT TO THE ADEQUATE MOISTURE CONTENT AND COMPACTED (TYPICALLY) TO NOT LESS THAN NINETY PERCENT (90%) OF MAXIMUM DENSITY IN ACCORDANCE WITH THE CURRENT ASTM D 1557 COMPACTION PROCEDURE, OR 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH THE CURRENT THD--TEX--113--E COMPACTION PROCEDURE.

5. FILL MATERIALS

THE MATERIALS USED SHALL BE FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES, SUCH AS TREES, BRUSH AND RUBBISH, AND SHALL NOT CONTAIN ROCKS OR LUMPS HAVING A DIAMETER OF MORE THAN SIX INCHES (6").

6. DEPTH AND MIXING OF FILL LAYERS

THE SELECTED FILL MATERIAL SHALL BE PLACED IN LEVEL, UNIFORM LAYERS WHICH, WHEN COMPACTED, SHALL HAVE A DENSITY CONFORMING TO THAT STIPULATED ABOVE. EACH LAYER SHALL BE THOROUGHLY MIXED DURING THE SPREADING TO ENSURE UNIFORMITY OF MATERIAL IN EACH LAYER. COMPACTED LAYER THICKNESS MAY VARY DEPENDING ON THE COMPACTION EQUIPMENT OF DEMONSTRATED CAPABILITY. THE MAXIMUM LOOSE DEPTH FOR ANY MATERIAL SHALL NOT EXCEED TWELVE INCHES (12"). FOR TESTING REQUIREMENTS OF FILL MATERIAL, SEE DENSITY TESTING.

7. <u>ROCK</u>

WHEN FILL MATERIAL INCLUDES ROCK, THE MAXIMUM ROCK SIZE SHALL BE AS APPROVED BY THE GEOTECHNICAL ENGINEER. NO LARGE ROCKS SHALL BE ALLOWED TO NEST AND ALL VOIDS MUST BE FILLED WITH SMALL STONES OR SOIL AND ADEQUATELY COMPACTED. NO LARGE ROCKS WILL BE PERMITTED WITHIN EIGHTEEN INCHES (18") OF THE FINISHED GRADE.

8. COMPACTION OF FILL LAYER

COMPACTION EQUIPMENT SHALL BE CAPABLE OF COMPACTING THE FILL TO THE SPECIFIED DENSITY. COMPACTION SHALL BE ACCOMPLISHED WHILE THE FILL MATERIAL IS AT OR NEAR THE APPROPRIATE MOISTURE CONTENT. COMPACTION OF EACH LAYER SHALL BE CONTINUOUS OVER THE ENTIRE STRUCTURAL AREA (BENEATH PROPOSED STRUCTURES).

9. COMPACTION OF SLOPES

THE FACES OF FILL SLOPES SHALL BE COMPACTED. COMPACTING OPERATIONS SHALL BE CONTINUED UNTIL THE SLOPE FACES ARE STABLE BUT NOT TOO DENSE FOR PLANTING ON THE SLOPES. COMPACTION OF THE SLOPE FACES MAY BE DONE PROGRESSIVELY IN INCREMENTS OF THREE TO FIVE FEET (3' TO 5') IN FILL HEIGHT AS THIS FILL PROGRESSES OR AFTER THE FILL HAS BEEN BROUGHT TO ITS TOTAL HEIGHT.

10. MOISTURE CONTENT

THE FILL MATERIAL SHALL BE COMPACTED AT THE APPROPRIATE MOISTURE CONTENT SPECIFIED FOR THE SOILS BEING USED. APPROPRIATE MOISTURE CONTENT IS DEFINED, TYPICALLY, AS OPTIMUM MOISTURE CONTENT; HOWEVER, FOR EXPANSIVE SOILS IT MAY BE GREATER THAN OPTIMUM MOISTURE CONTENT, AND OTHER MOISTURE CONTENTS MAY BE NECESSARY TO PRODUCE THE DESIRED RESULTS WITH CERTAIN SOILS.

11. DENSITY TESTS

FIELD DENSITY TESTS SHALL BE PERFORMED ON LAYERS OF FILL WHEN THE FILL IS BEING PLACED AS DIRECTED BY THE GEOTECHNICAL ENGINEER. THE MAXIMUM FILL HEIGHT BETWEEN DENSITY TESTING SHALL BE TWELVE INCHES (12") AND AS SPECIFIED BY GEOTECHNICAL ENGINEER. ALL TESTING SHALL BE REQUESTED BY THE CONTRACTOR TO MEET THE CONTRACTOR'S CONSTRUCTION SCHEDULE. NOTIFICATION BY THE CONTRACTOR FOR GEOTECHNICAL ENGINEER TO CONDUCT TESTS SHALL BE AT LEAST THE DAY BEFORE. THIS NOTIFICATION SHALL INCLUDE THE FILL AREA LOCATION (LOT AND BLOCK), THE LIFT OR HEIGHT OF FILL AND APPROXIMATE DESIRED TIME OF TESTING. WHEN THESE TESTS INDICATE THAT THE DENSITY OF ANY LAYER OF FILL OR PORTION THEREOF IS BELOW THE REQUIRED DENSITY, THE PARTICULAR LAYER OR PORTION SHALL BE REWORKED AND RETESTED AT THE EXPENSE OF THE CONTRACTOR UNLESS THE CONTRACTOR CAN SHOW EVIDENCE THAT CIRCUMSTANCES BEYOND HIS CONTROL REQUIRED THE RETESTING. GENERALLY, THE SPECIFIC TESTING WILL BE AS FOLLOWS AND CONDUCTED BY GEOTECHNICAL ENGINEER.

1. THE LAND TO BE FILLED (PREPARED SUBGRADE) SHALL BE PREPARED AND TESTED AT A FREQUENCY AS DETERMINED BY THE GEOTECHNICAL ENGINEER. THE FIRST LIFT OF COMPACTED FILL (GENERALLY 8 TO 12-IN.) SHALL BE

TESTED AS DETERMINED BY THE GEOTECHNICAL ENGINEER. ANY AREAS SUPPORTING THE PROPOSED STRUCTURES REQUIRING FILL SHALL BE TESTED FOR

DENSITY COMPLIANCE. 3. FILLS SHALL BE TESTED A MAXIMUM OF EACH TWELVE INCHES (12") AND AS SPECIFIED BY GEOTECHNICAL ENGINEER, OF FILL.

4. TEST RESULTS WILL BE PROVIDED BY THE FIELD TECHNICIAN TO THE CONTRACTOR WHEN POSSIBLE; HOWEVER, ALL TEST RESULTS ARE TO BE REVIEWED BY THE GEOTECHNICAL ENGINEER FOR COMPLIANCE. THE ENGINEER WILL NOTIFY THE CONTRACTOR OF ALL TEST RESULTS.

12. CUT/FILL LOTS

AREAS INVOLVING CUT ON ONE PORTION AND FILL ON ANOTHER PORTION OF A SPECIFIC LOT SHALL BE PREPARED TO A MINIMUM DEPTH OF 6-IN. AND WILL BE THE SAME MATERIAL CLASSIFICATION AT THE SAME COMPACTION AND MOISTURE CONTENT. A MINIMUM OF TWO (2) FIELD DENSITY TESTS SHALL BE REQUIRED ON EACH CUT/FILL LOT FOR THE PURPÒSÉ OF DETERMINING UNIFORMITY OF THE AREA SUPPORTING THE PROPOSED STRUCTURES.

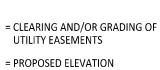
NOTES:

MINIMUM SLAB EXPOSURE IS 1.0'.

ALL ELEVATIONS AT FRONT PROPERTY LINE ARE 0.18' ABOVE CURB ELEVATION.

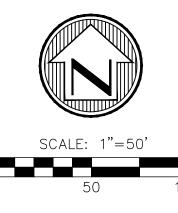
CONTRACTOR TO VERIFY 1.5% MINIMUM SLOPE ON LOTS AND REGRADE TO MEET MINIMUM PROPOSED ELEVATIONS IF NECESSARY

CONTRACTOR TO CLEAR ALL RIGHT OF WAY, EASEMENTS AND PRESERVE ANY TREE 10" AND LARGER OUTSIDE OF THESE AREAS.



= EXISTING ELEVATION

= PROPOSED CONTOUR





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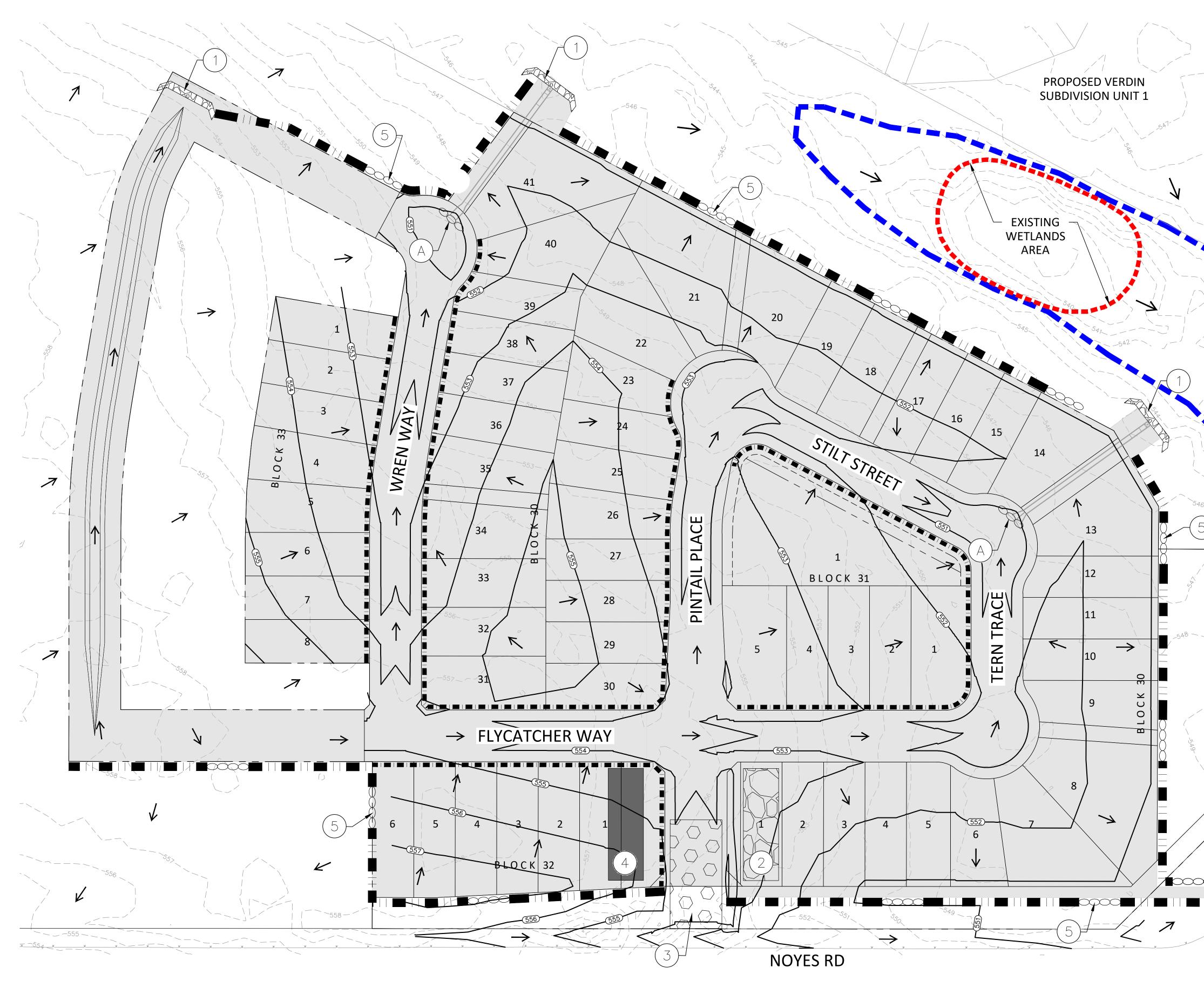


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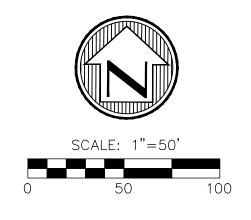


ESTIMATED QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY
1.	STABILIZED CONSTRUCTION ENT./EXIT	L.S.	1
2.	SILT FENCE (PHASE I)	L.F.	2,191
3.	SILT FENCE (PHASE II)	L.F.	2,347
4.	ROCK BERM - TYPE II	L.F.	120
5.	BAGGED GRAVEL INLET FILTER (PHASE I)	L.F.	480
6.	BAGGED GRAVEL INLET FILTER (PHASE II)	L.F.	60
7.	CONSTRUCTION STAGING AREA	L.S.	1
8.	CONCRETE WASHOUT PIT	L.S.	1

BEXAR COUNTY R.O.W. NOTE: BEXAR COUNTY PERMIT REQUIRED FOR STREET TIE-IN & INTERSECTION PAVEMENT REPLACEMENT AND/OR ANY WORK BEING DONE IN BEXAR COUNTY R.O.W.

LAND-PLAT- 22-11800352



GENERAL NOTES:

WASHING - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED STRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE USING APPROVED METHODS.

MAINTENANCE - THE ENTRANCE/EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAYS. THIS MAY REQUIRE PERIODIC DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY

DRAINAGE - ENTRANCE/EXIT MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

ALL CPS ENERGY WORK IS INCLUDED AS PART OF THE CONSTRUCTION OF THE SUBDIVISION AND HAS BEEN CONSIDERED IN THIS STORM WATER POLLUTION PREVENTION PLAN (SWPPP).

CONTRACTOR TO INSTALL AND MAINTAIN THE EROSION AND SEDIMENTATION CONTROLS AS DESIGNED AND SHALL INSPECT THE CONTROLS BI-WEEKLY (14 DAYS) AND AFTER EVERY SIGNIFICANT RAINFALL (0.5 INCHES OR GREATER) TO ENSURE SIGNIFICANT DISTURBANCE HAS NOT OCCURRED. SEDIMENT DEPOSITED AFTER A SIGNIFICANT RAINFALL SHALL BE REMOVED AND PLACED IN A DESIGNATED SOIL DISPOSAL AREA. CONTRACTOR TO ENGAGE A THIRD PARTY FIRM TO PROVIDE A DETAILED STORM WATER POLLUTION PREVENTION PLAN (SWPPP) WHICH INCLUDES INSPECTION AND REPORTING PROCEDURES.

CONTRACTOR WILL INSPECT BMP'S AT LEAST TWICE A WEEK (EVERY 14 DAYS) AS WELL AS AFTER EVERY HALF INCH OR MORE OF RAINFALL. CONTROLS WILL BE REPAIRED, REPLACED, AND/OR REVISED AS NECESSARY.

CONTRACTOR TO PLACE TRENCH EXCAVATION MATERIAL ON THE UPGRADIENT (HIGH) SIDE OF THE TRENCH.

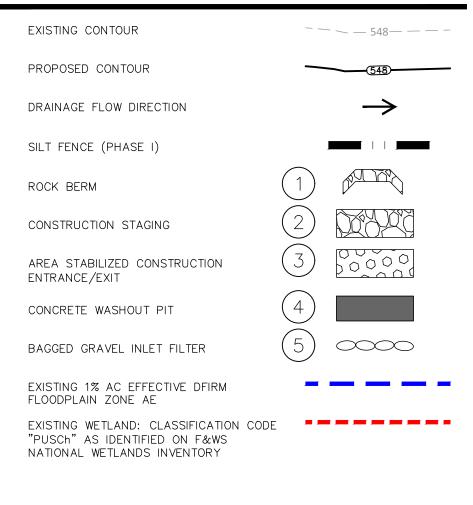
ALL SOIL, SAND, GRAVEL, AND EXCAVATED MATERIALS STOCKPILED ON-SITE WILL HAVE APPROPRIATELY SIZED SILT FENCE PLACED UPGRADIENT AND DOWN GRADIENT. FEMA 100-YEAR FLOODPLAIN MUST BE STAKED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

SOUTH 9 -НWY STATE

<u>BP: 12</u>

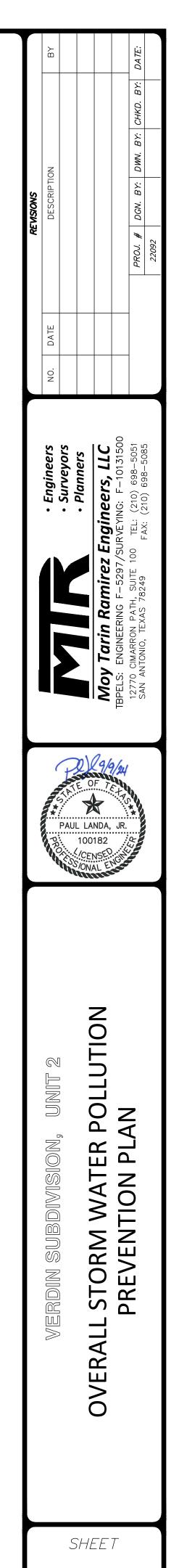
<u>EP: 1</u>

PHASE I LEGEND



PHASE II LEGEND

EXISTING CONTOUR _ _ _ 548 _ _ _ _ PROPOSED CONTOUR 548 DRAINAGE FLOW DIRECTION SILT FENCE (PHASE II) ROCK BERM (A)BAGGED GRAVEL INLET FILTER



SUBMITTAL SET

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