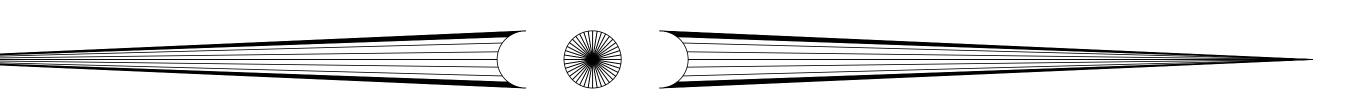
# CONSTRUCTION PLANS FOR



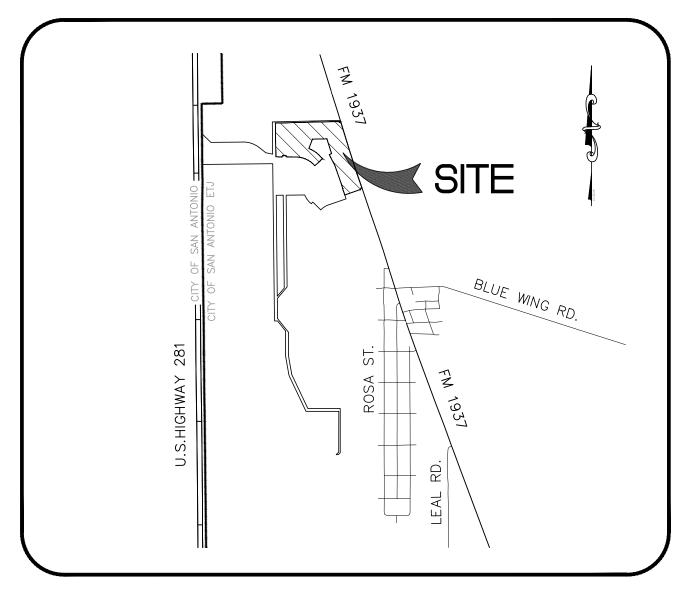
# ROOSEVELT LANDING, UNIT 2

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

# OWNER/DEVELOPER

FAX: (210) 698-5085

SAN ANTONIO, LD. LLC. 4058 NORTH COLLEGE STE. 300, BOX 9 FAYETTEVILLE, AR 72703 (479) 455-9090



# VICINITY MAP

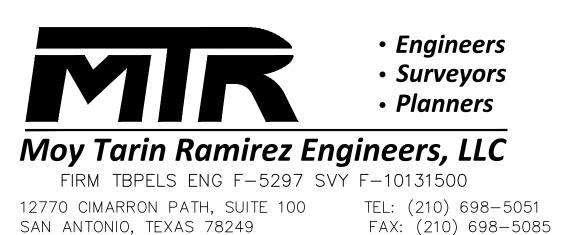
# **SUBMITTAL DATE:**

8/22/2022

# LEGAL DESCRIPTION:

BEING A 19.548 ACRE TRACT OUT OF A 52.24 ACRE TRACT OF LAND SITUATED IN THE JOSE ANTONIO DE LA GARZA SURVEY ABSTRACT NO. 3, COUNTY BLOCK 4006, BEXAR COUNTY, TEXAS AS CONVEYED TO SAN ANTONIO LD, LLC, BY WARRANTY DEED AS RECORDED IN DOCUMENT NUMBER 20220056276 OF THE OFFICIAL PUBLIC RECORDS OF BEXAR COUNTY, TEXAS.





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C4.10 MONIQUE MILL & ANGIE ALLEY PLAN AND PROFILE

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C5.1 **GRADING PLAN** C6.0 SW3P PLAN C6.1 SW3P DETAILS

# 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**

- 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
- ALL SPOIL AND UNUSABLE MATERIAL FROM THIS PROJECT SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AT NO ADDITIONAL
- 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
- A. STREET CENTERLINE STAKING FOR CLEARING. B. STREET STAKING (ONE SIDE) FOR STREET EXCAVATION AND WATER
- SEWER STAKING AT 100-FT INTERVALS.
- STAKING FOR WATER SERVICES. STAKING FOR DRAINAGE CHANNELS.
- FINAL STREET STAKING. 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.

PROP. WATER MAIN

·)←── PROP. WATER MAIN

H.M.A.C. TYPE "D"

H.M.A.C. TYPE "D"

PROP. SAN. SWR.

PROP. SAN. SWR.

TYPICAL STREET CROSS-SECTION (28' PAVEMENT)

# NOTE:

4' CONC. SIDEWALK

SOIL/PARKWAY MAX SLOPE 1"/FT.

8"-12" MAIN. 4' MIN. DEPTH

> 16" MAIN, 5' MIN. DEPTH

MIN. SLOPE 1/4"/FT

6' CONC. SIDEWALK SOIL/PARKWAY

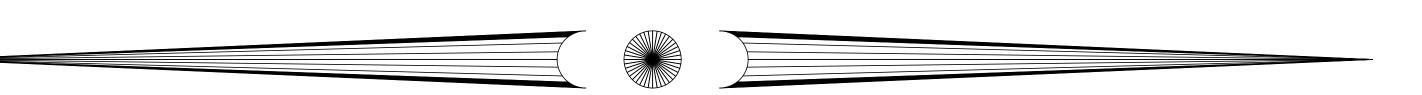
MAX SLOPE 1"/FT.

> 16" MAIN, 5' MIN. DEPTH

MIN. SLOPE 1/4"/FT.

TELEPHONE AND CABLE LINES TO GO IN JOINT TRENCH WITH CITY

# CONSTRUCTION PLANS FOR



# ROOSEVELT LANDING, UNIT 2

# UTILITY IMPROVEMENTS

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SHEET No. TITLE

UTILITY COVER

C1.1 OVERALL UTILITY PLAN

OVERALL UTILITY PLAN

LAND-PLAT-22-11800353

SAN ANTONIO, TEXAS 78249

MOY TARIN RAMIREZ ENGINEERS, LLC.

12770 CIMARRON PATH, SUITE 100

OWNER/DEVELOPER

4058 NORTH COLLEGE STE. 300, BOX 9

SUBMITTED BY:

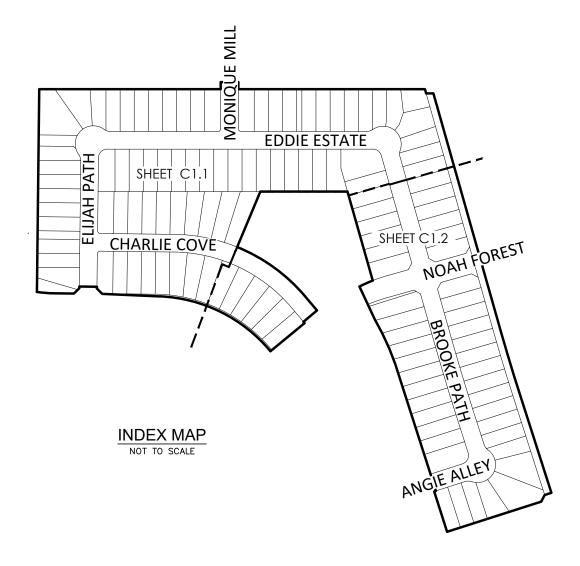
TEL: (210) 698-5051

FAX: (210) 698-5085

SAN ANTONIO, LD. LLC.

(479) 455-9090

FAYETTEVILLE, AR 72703



## 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 EXISTING UNDERGROUND ELECTRIC EXISTING UNDERGROUND TELEPHONE 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 EXISTING SECONDARY ENCLOSURE PROPOSED SECONDARY ENCLOSURE PROPOSED POWER POLE PROPOSED TRANSFORMER PROPOSED WATER SERVICE PROPOSED SERVICE LATERAL WITH ONE-WAY CLEANOUT EXISTING TRANSFORMER EXISTING IRRIGATION CONTROL VALVE EXISTING WATER METER

---- E8"W -----

LEGEND

EXISTING WATER MAIN

PROPOSED WATER MAIN

# SUBMITTAL DATE:

# LEGAL DESCRIPTION:

8/22/2022

BEING A 19.548 ACRE TRACT OUT OF A 52.24 ACRE TRACT OF LAND SITUATED IN THE JOSE ANTONIO DE LA GARZA SURVEY ABSTRACT NO. 3, COUNTY BLOCK 4006, BEXAR COUNTY, TEXAS AS CONVEYED TO SAN ANTONIO LD, LLC, BY WARRANTY DEED AS RECORDED IN DOCUMENT NUMBER 20220056276 OF THE OFFICIAL PUBLIC RECORDS OF BEXAR COUNTY, TEXAS.

# BY THE ACT OF SUBMITTING A BID FOR THIS PROPOSED CONTRACT, THE BIDDER WARRANTS

# SECONDARY ENCLOSURE FRONT LOADED

— 10' GAS, ELECTRIC, TELEPHONE, & CABLE TELEVISION EASEMENT

**TRANSFORMER** 

10' GAS, ELECTRIC, TELEPHONE, & CABLE TELEVISION EASEMENT

(10' MIN. STUB

MIN. SLOPE 1/4"/FT

MAX SLOPE 1"/F

COMPACTED BASE

COMPACTED BASE

95% COMPACTED DENSITY

95% COMPACTED DENSITY

# NOTE TO CONTRACTOR

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.



- Engineers Surveyors Planners
- Moy Tarin Ramirez Engineers, LLC

FIRM TBPELS ENG F-5297 SVY F-10131500 12770 CIMARRON PATH, SUITE 100 TEL: (210) 698-5051 SAN ANTONIO, TEXAS 78249 FAX: (210) 698-5085

# 1 Foot of Separation required at any Water & Sewer Crossing Foot of Separation required at any Water & Sewer Crossing Depth of 48" Conduits will be random lay

Standards for Gas and Electric Trench or Electric Trench with Joint Utilities

PAUL LANDA, JR

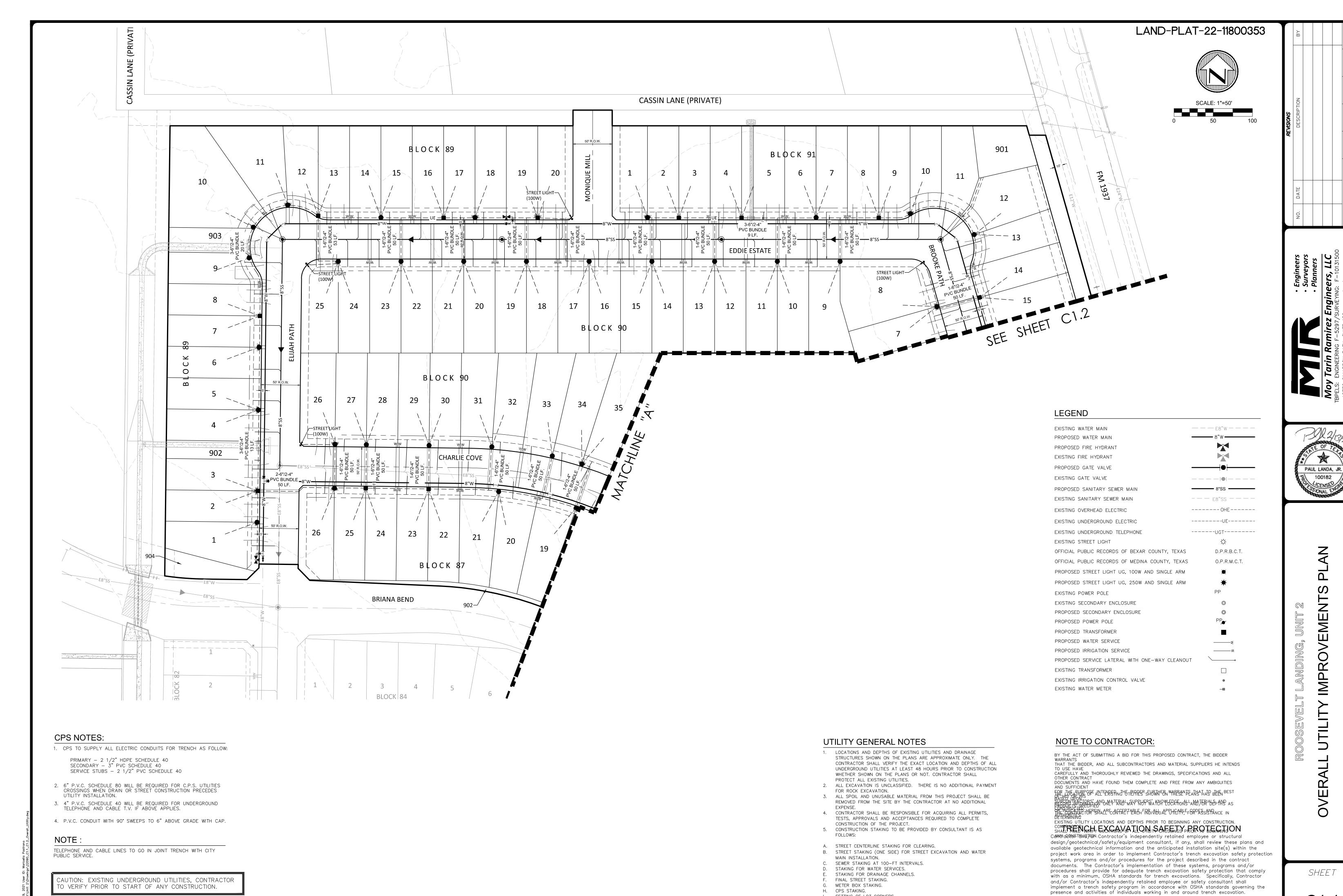
Standards for Electric Trench or Electric Trench with Joint Utilities

TRENCH DETAILS

BEXAR COUNTY

TYPICAL STREET CROSS-SECTION (40' PAVEMENT)

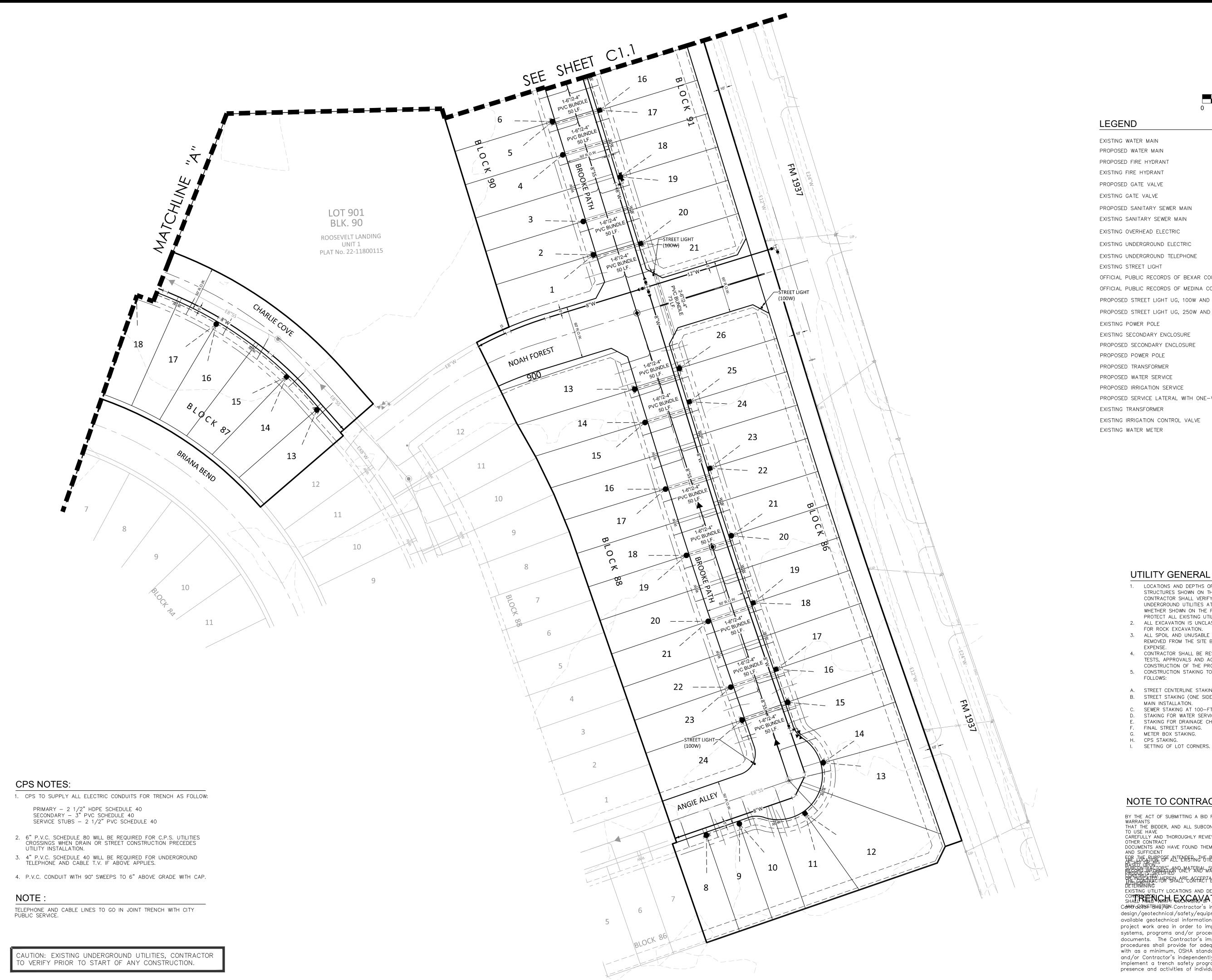
TEXAS C1.0



I. SETTING OF LOT CORNERS.

SUBMITTAL SET

C1.1









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 --------- OHE -----EXISTING OVERHEAD ELECTRIC -----UE-----EXISTING UNDERGROUND ELECTRIC -----UGT-----EXISTING UNDERGROUND TELEPHONE EXISTING STREET LIGHT  $\Rightarrow$ 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 EXISTING SECONDARY ENCLOSURE PROPOSED SECONDARY ENCLOSURE PROPOSED POWER POLE PROPOSED TRANSFORMER PROPOSED WATER SERVICE PROPOSED IRRIGATION SERVICE PROPOSED SERVICE LATERAL WITH ONE-WAY CLEANOUT EXISTING TRANSFORMER EXISTING IRRIGATION CONTROL VALVE EXISTING WATER METER

# UTILITY GENERAL NOTES

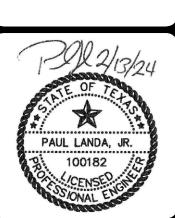
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- FOR ROCK EXCAVATION. 3. ALL SPOIL AND UNUSABLE MATERIAL FROM THIS PROJECT SHALL BE
- REMOVED FROM THE SITE BY THE CONTRACTOR AT NO ADDITIONAL
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- FINAL STREET STAKING.
- G. METER BOX STAKING. H. CPS STAKING.

# NOTE TO CONTRACTOR:

BY THE ACT OF SUBMITTING A BID FOR THIS PROPOSED CONTRACT, THE BIDDER THAT THE BIDDER, AND ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS HE INTENDS CAREFULLY AND THOROUGHLY REVIEWED THE DRAWINGS, SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS AND HAVE FOUND THEM COMPLETE AND FREE FROM ANY AMBIGUITIES FOR ITHEAPHORE OF ALLTERNETHINGHETRIPPER STHRWHEN WARREN PEATHS THAT BEET BENTERICEPASTICAN ONLATERIAL MSYPRIJERSIA KUP VLEDGETONSLAMA JERIALES AND AS DETERMINES TO BE SHALL BE ON FACT BLEH FROM A PUHLAPLE FOR DESSANDANCE IN DETERMINES. EXISTING UTILITY LOCATIONS AND DEPTHS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRENCH EXCAVATION SAFETY PROTECTION

CONTROCTBHGTON. 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.

SUBMITTAL SET



Ż **■** ROV

SHEET

OVE





# ROOSEVELT LANDING, UNIT 2 SANITARY SEWER IMPROVEMENTS

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
- 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
- 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
- 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 10. The Contractor shall not place any waste materials in the 100-year Flood Plain without first obtaining an approved Flood
- 11. Holiday Work: Contractors will not be allowed to perform SAWS work on SAWS recognized holidays. Request should be
- sent to constworkreq@saws.org. Weekend Work: Contractors are required to notify the SAWS Inspection Construction Department 48 hours in advance to request weekend work. Request should be sent to constworkreq@saws.org.
- Any and all SAWS utility work installed without holiday/weekend approval will be subject to be uncovered for proper
- 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.

- 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.
- Contain sewage from the SSO to the extent of preventing a possible contamination of waterways.
- 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 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.

- 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.
- 4. 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
- 13. MINIMUM COVER FROM TOP OF SANITARY SEWER LATERALS TO TOP OF
- 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"
- 14. ALL MANHOLE OPENINGS SHALL BE 30".

### SAN ANTONIO WATER SYSTEM CRITERIA FOR SEWER MAIN CONSTRUCTION <u>IN THE VICINITY OF WATER MAINS</u>

- . 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 EQUALLY PRESSURE RATED 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 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 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 WITHIN NINE FEET OF THE WATER MAIN.
- 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 CAST IRON, DUCTILE IRON, OR PVC WITH A MINIMUM PRESSURE RATING OF 150 PSI WITHIN NINE FEET OF THE WATER MAIN, SHALL HAVE A SEGMENT OF SEWER PIPE CENTERED ON THE WATER MAIN, SHALL BE PLACED NO CLOSER THAN SIX 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 ON THE WATER MAIN IN LIEU OF PIPE CONNECTION REQUIREMENTS. (NO
- IV. WHERE A SEWER MAIN PARALLELS A WATER MAIN AND THE SEPARATION DISTANCE IS LESS THAN NINE FEET, THE SEWER MAIN SHALL BE BELOW THE WATER MAIN, 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 NINE FEET BEYOND THE POINT OF CONFLICT, SHALL MAINTAIN A MINIMUM 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 CAST IRON OR DUCTILE IRON MATERIAL.
- SANITARY SEWER MANHOLES SHALL NOT BE INSTALLED ANY CLOSER THAN NINE

# VICINITY MAP

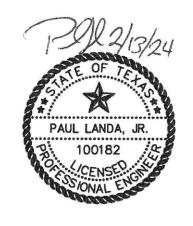
# SUBMITTAL DATE:

# 8/22/2022

# **REVISION DATE:**

# **LEGAL DESCRIPTION:**

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# SHEET No. TITLE

	C2.0	SEWER COVER
C2.2 SEWER OVERAL	C2.1	SEWER OVERALI
	C2.2	SEWER OVERALI

SANITARY SEWER LINE "A" PLAN AND PROFILE SANITARY SEWER LINE "R" PLAN AND PROFILE C2.5 SANITARY SEWER LINE "F" PLAN AND PROFILE

SANITARY SEWER LINE "Q" PLAN AND PROFILE

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02.0	SEWEN OOVEN
C2.1	SEWER OVERALI
C2.2	SEWER OVERALI
C2 3	CANITARY SEWE

C2.4

C2.7 SANITARY SEWER DETAILS

### Developer's Name\_SAN ANTONIO, LD. LLC. Developer's Address 4058 NORTH COLLEGE STE. 300, BOX 9 City FAYETTEVILLE Phone #\_\_\_(479) 455-9090 \_ Fax #<u>\_</u>\_ Total EDU's 121 Total Acreage 19.458 SAWS Block Map <u>#</u> 170-520 Total Linear Footage of Pipe\_\_8" ~ 2082 L.F. SAWS Job No. 22-1659 Number of Lots 121

# 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 FACH INDIVIDUAL UTILITY. FOR ASSISTANCE IN DETERMINING EXISTING UTILITY LOCATIONS AND DEPTHS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR



FAX: (210) 698-5085

SAN ANTONIO, TEXAS 78249

THE CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE

FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY

ELECTRICAL DUCT BANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES.

START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE

UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, TELEPHONE AND

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

SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT

CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE

LAND-PLAT-22-11800353

SAN ANTONIO, TEXAS 78249

OWNER/DEVELOPER

4058 NORTH COLLEGE STE. 300, BOX

MOY TARIN RAMIREZ ENGINEERS, LLC. 12770 CIMARRON PATH, SUITE 100

SUBMITTED BY:

TEL: (210) 698-5051 FAX: (210) 698-5085

SAN ANTONIO, LD. LLC.

FAYETTEVILLE, AR 72703

(479) 455-9090

**EDDIE ESTATE** 

**ESTIMATED SEWER QUANTITIES** 

TIE INTO EXISTING SANITARY SEWER MAIN

8" SANITARY SEWER PIPE, SDR-26 (6'-10')

STANDARD SANITARY SEWER MANHOLE

6" SANITARY SEWER LATERALS, SDR-26

8" SEWER MAIN TELEVISION INSPECTION

RECONSTRUCT EXISTING MANHOLE

EXTRA DEPTH MANHOLE

PLANS OR NOT.

TRENCH EXCAVATION SAFETY PROTECTION

EST/QTY

2082

2,082

4.364

2,082

E.A.

L.F.

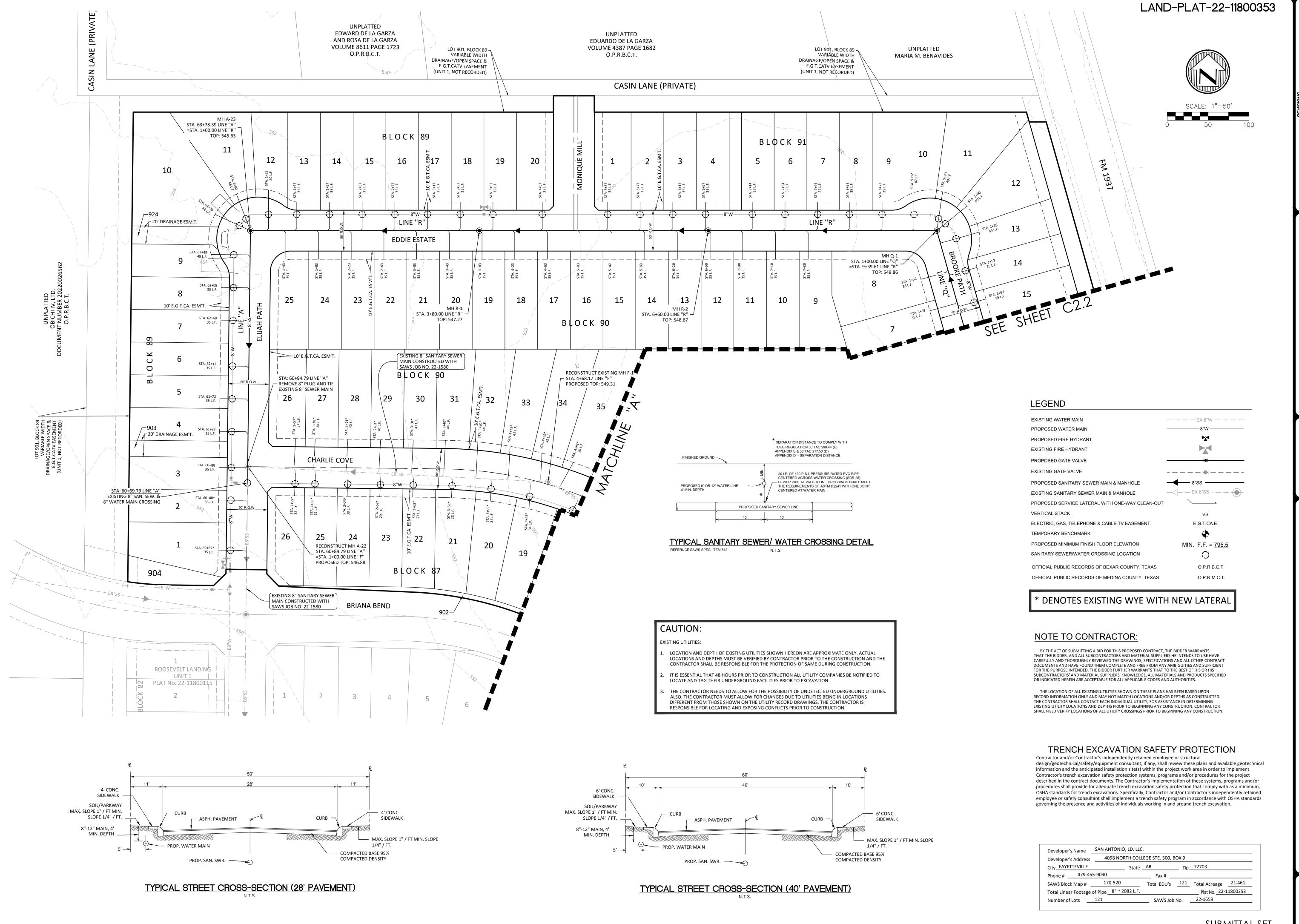
EA.

CHARLIE COVI

ITEM DESCRIPTION

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.

BEXAR COUNTY



SUBMITTAL SET



RAL Ш 0 Ш S ANITARY

SHEET

S

PTS NO. DATE DESCRIF

TS

LC

1500

S051

PROJ. # DGN. B

• Surveyor
• Planners
in Ramirez Engineers, LL
EERING F-5297/SURVEYING: F-101315
ON PATH, SUITE 100 TEL: (210) 698-50
TEXAS 78249 FAX: (210) 698-508

PAUL LANDA, JR.

100182

CENSE

ONAL ENGINEER

# SANITARY SEWER OVERALL PLAN

SHEET

C2.2

CAUTION: EXISTING UTILITIES:

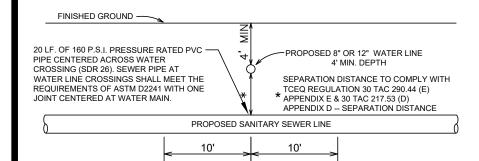
1. LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS MUST BE VERIFIED BY CONTRACTOR PRIOR TO THE CONSTRUCTION AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF SAME DURING CONSTRUCTION.

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.

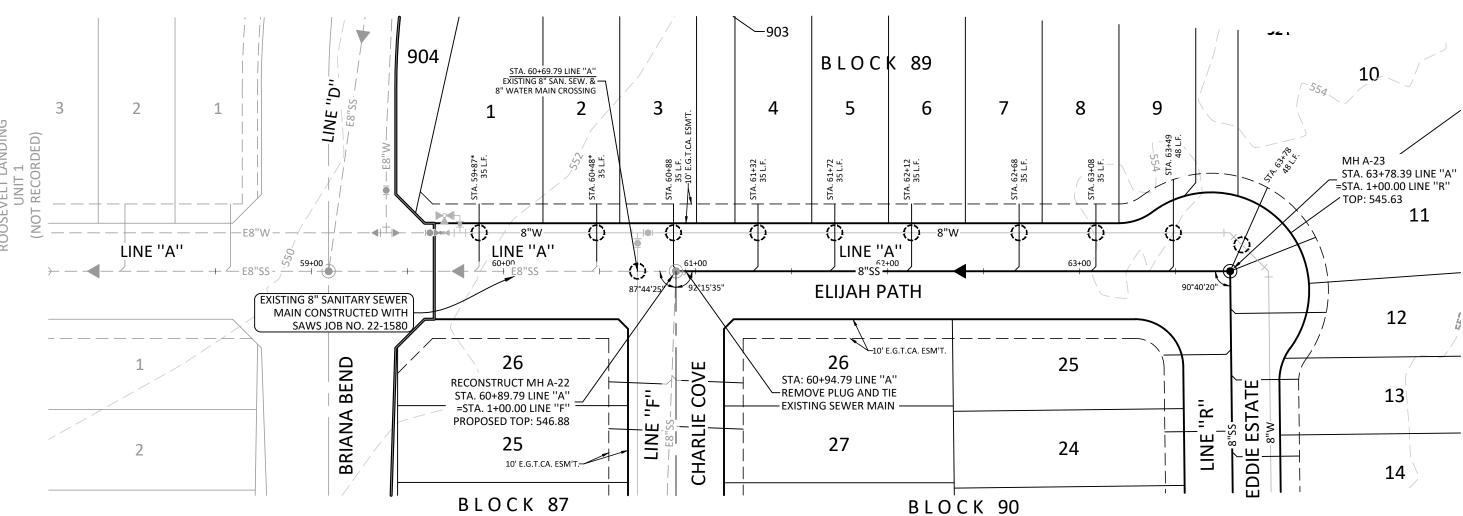
3. THE CONTRACTOR NEEDS TO ALLOW FOR THE POSSIBILITY OF UNDETECTED UNDERGROUND UTILITIES. ALSO, THE CONTRACTOR MUST ALLOW FOR CHANGES DUE TO UTILITIES BEING IN LOCATIONS DIFFERENT FROM THOSE SHOWN ON THE UTILITY RECORD DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND EXPOSING CONFLICTS PRIOR TO CONSTRUCTION.

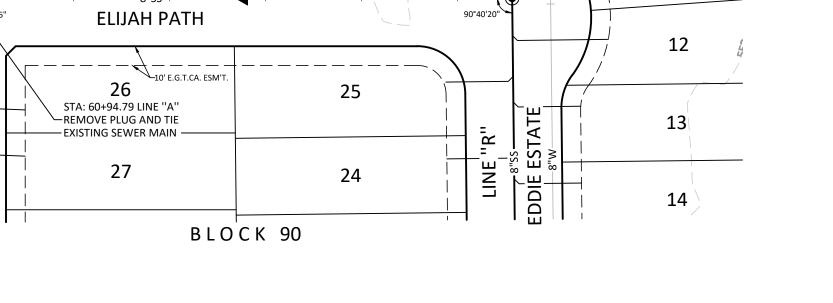
## TRENCH EXCAVATION SAFETY PROTECTION

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.



TYPICAL SANITARY SEWER/ WATER CROSSING DETAIL REFERNCE SAWS SPEC. ITEM 812





## PROPOSED WATER MAIN PROPOSED FIRE HYDRANT EXISTING FIRE HYDRANT PROPOSED GATE VALVE EXISTING GATE VALVE ----8"SS — PROPOSED SANITARY SEWER MAIN & MANHOLE ——— EX 8"SS - — — **EXISTING SANITARY SEWER MAIN & MANHOLE** PROPOSED SERVICE LATERAL WITH ONE-WAY CLEAN-OUT VERTICAL STACK ELECTRIC, GAS, TELEPHONE & CABLE TV EASEMENT TEMPORARY BENCHMARK PROPOSED MINIMUM FINISH FLOOR ELEVATION SANITARY SEWER/WATER CROSSING LOCATION OFFICIAL PUBLIC RECORDS OF BEXAR COUNTY, TEXAS OFFICIAL PUBLIC RECORDS OF MEDINA COUNTY, TEXAS \* DENOTES EXISTING WYE WITH NEW LATERAL

LEGEND

EXISTING WATER MAIN

LAND-PLAT-22-11800353

— — — EX 8"W — — —

- 8"W

VS

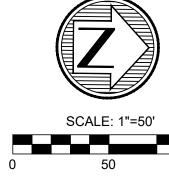
E.G.T.CA.E.

MIN. F.F. = <u>795.5</u>

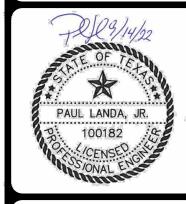
 $\circ$ 

O.P.R.B.C.T.

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



Developer's Name	SAN ANTONIO,	, LD. LLC				
Developer's Address	4058 NOR	TH COLL	EGE STE. 300, E	OX 9		
City FAYETTEVILLE		State	AR	Zip_	72703	
Phone #479-45	5-9090		Fax #			
SAWS Block Map # _	170-520		Total EDU's	121	Total Acreage	21.461
Total Linear Footage	of Pipe <u>8" ~ 208</u> 2	2 L.F.			Plat No. 22-1	1800353
Number of Lots	121		SAWS Job	No.	22-1659	

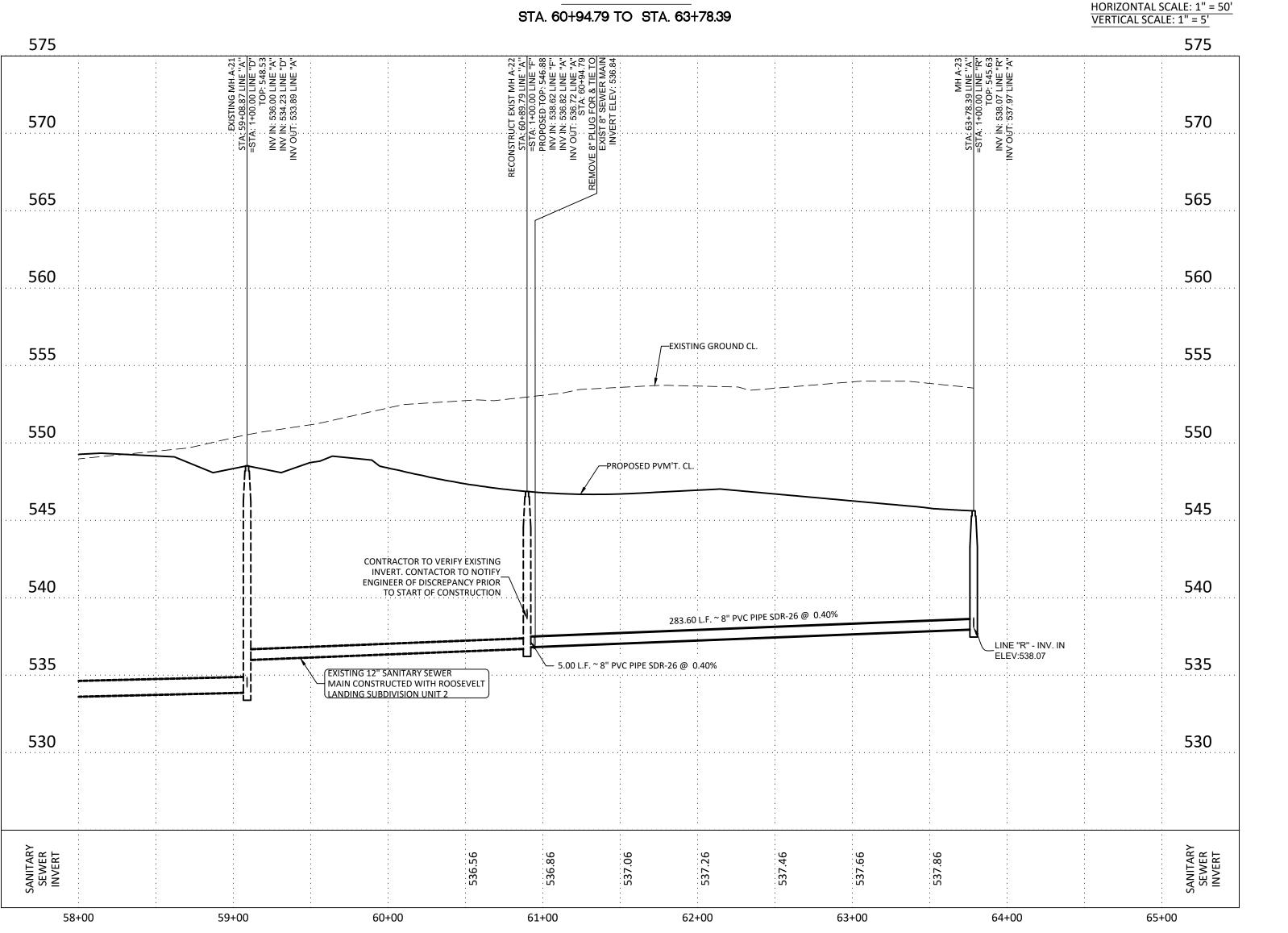


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S SANITARY

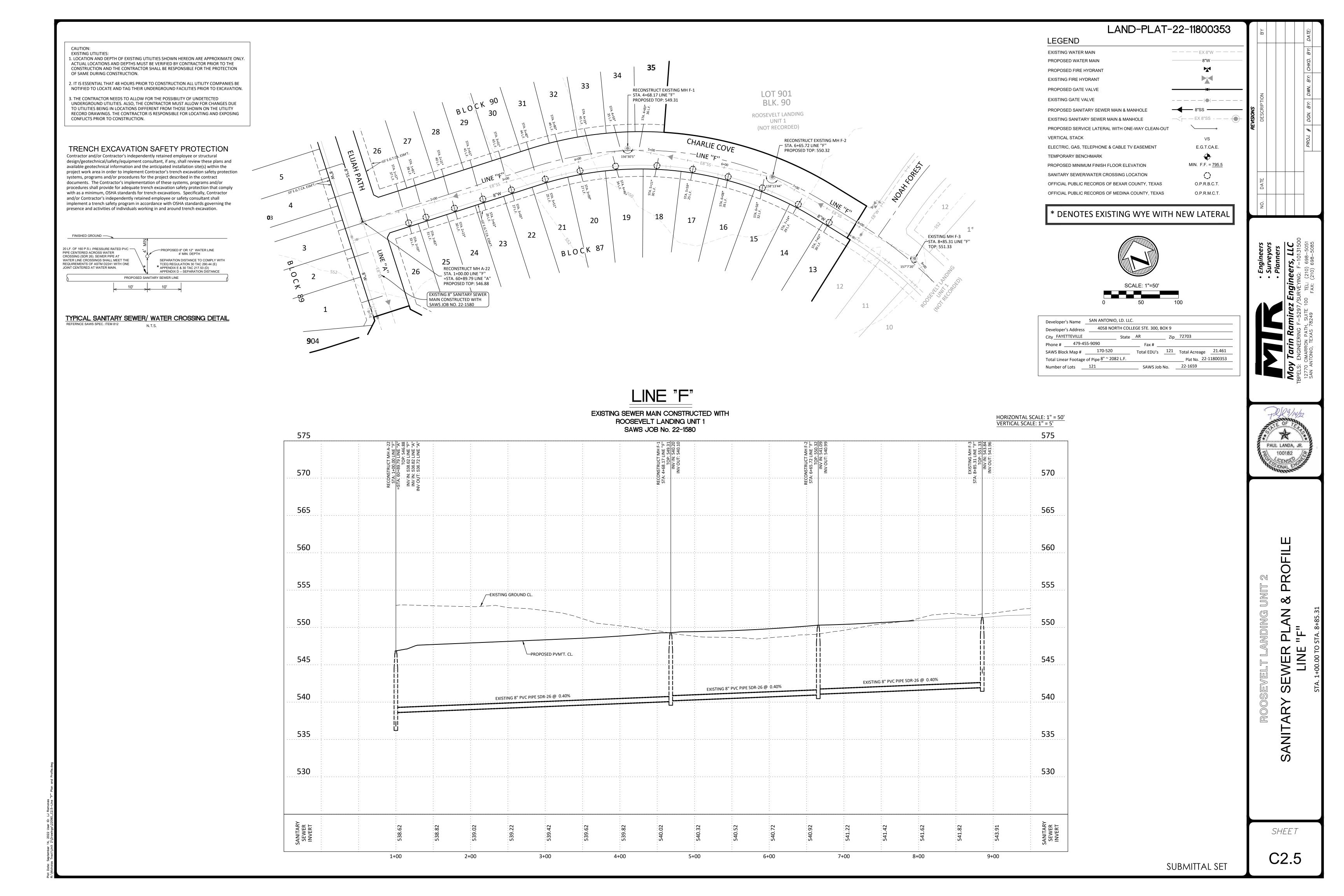
SHEET

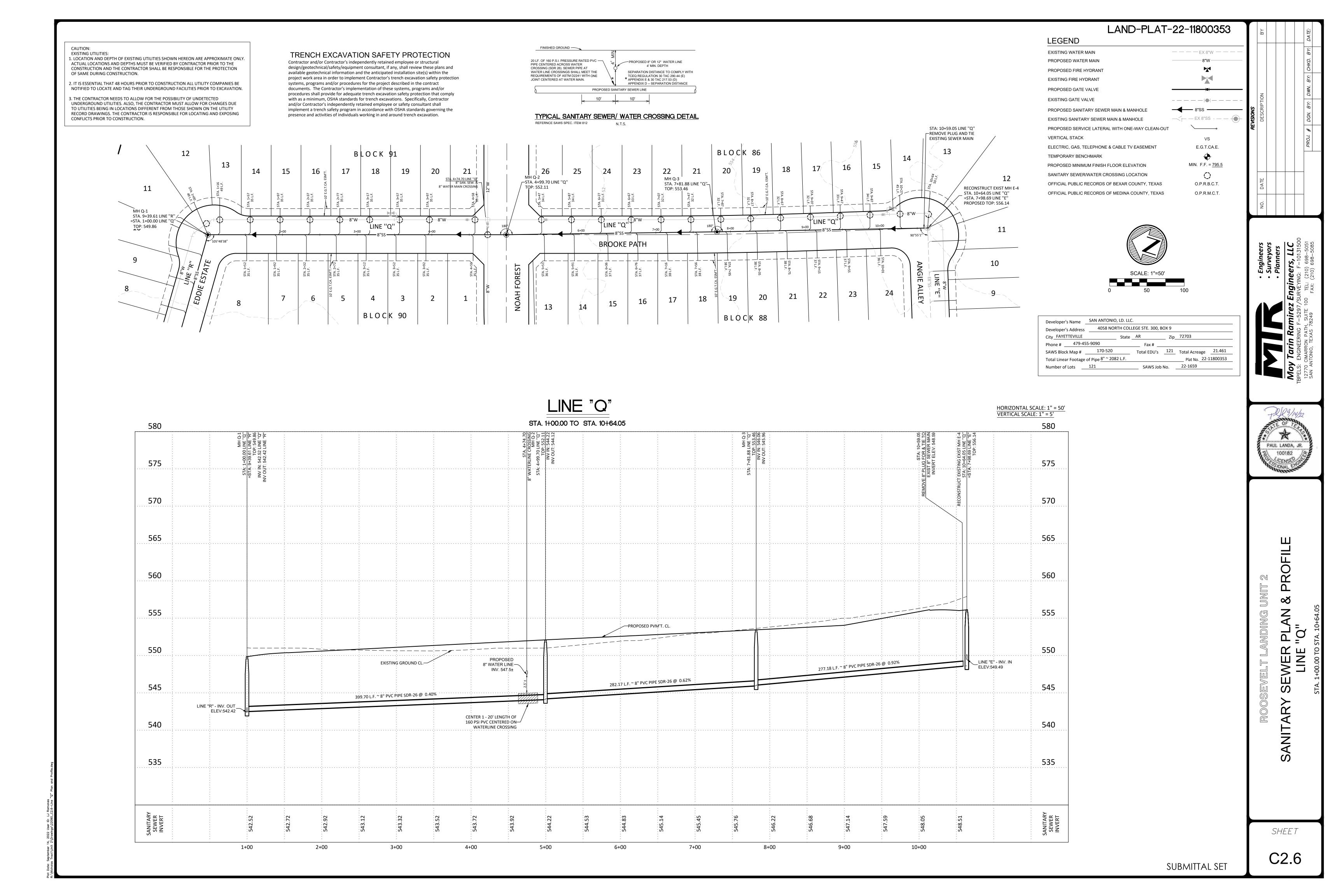
LINE "A"

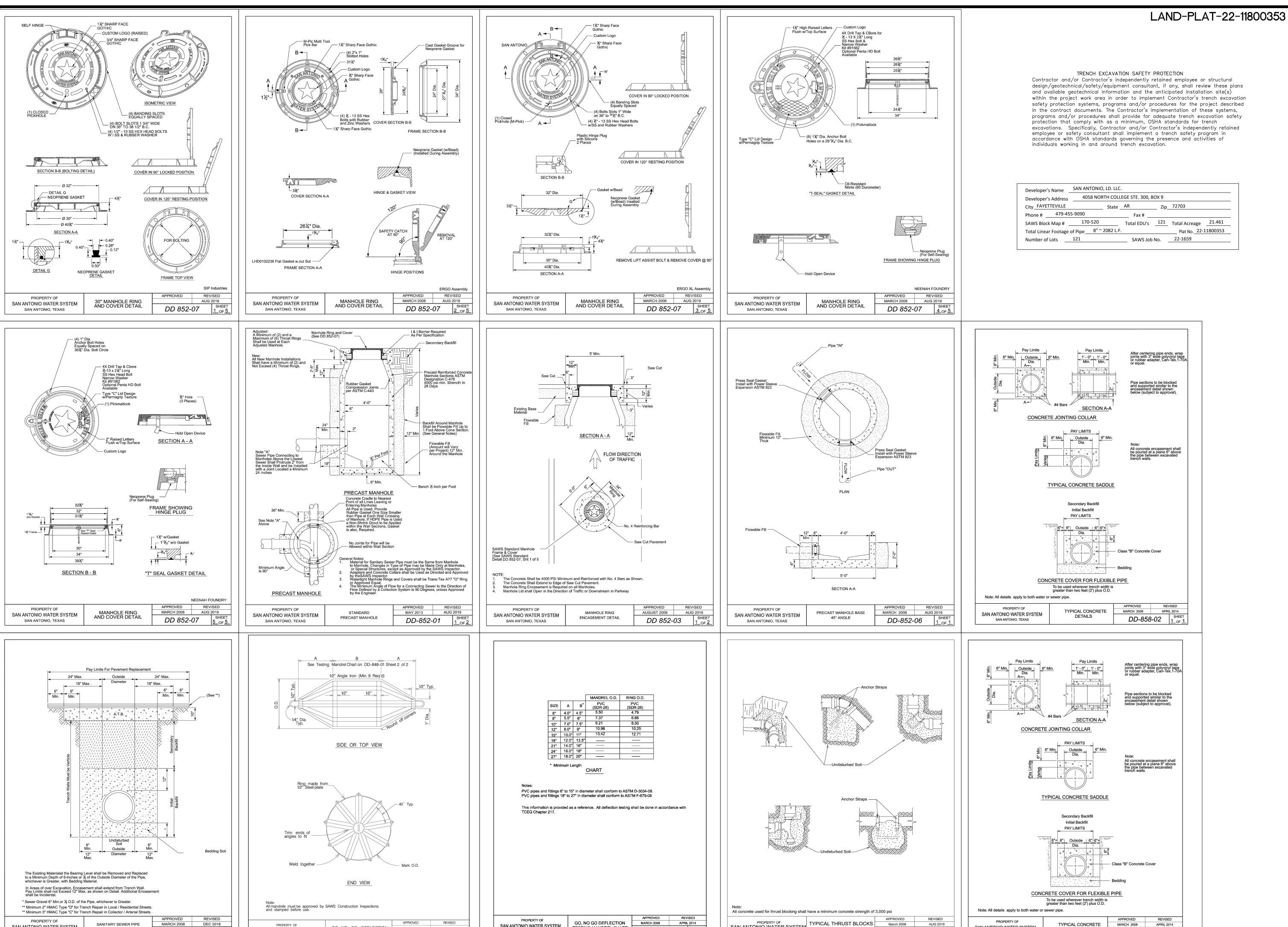


LAND-PLAT-22-11800353 LEGEND CAUTION: FINISHED GROUND EXISTING WATER MAIN EXISTING UTILITIES: — — — EX 8"W — — — TRENCH EXCAVATION SAFETY PROTECTION 1. LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE ONLY. PROPOSED WATER MAIN 20 LF. OF 160 P.S.I. PRESSURE RATED PVC — - 8"W Contractor and/or Contractor's independently retained employee or structural PROPOSED 8" OR 12" WATER LINE ACTUAL LOCATIONS AND DEPTHS MUST BE VERIFIED BY CONTRACTOR PRIOR TO THE PIPE CENTERED ACROSS WATER CROSSING (SDR 26). SEWER PIPE AT WATER LINE CROSSINGS SHALL MEET THE 4' MIN. DEPTH design/geotechnical/safety/equipment consultant, if any, shall review these plans and CONSTRUCTION AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION PROPOSED FIRE HYDRANT SEPARATION DISTANCE TO COMPLY WITH available geotechnical information and the anticipated installation site(s) within the OF SAME DURING CONSTRUCTION. REQUIREMENTS OF ASTM D2241 WITH ONE JOINT CENTERED AT WATER MAIN. \* TCEQ REGULATION 30 TAC 290.44 (E)

\* APPENDIX E & 30 TAC 217.53 (D) project work area in order to implement Contractor's trench excavation safety protection EXISTING FIRE HYDRANT 2. IT IS ESSENTIAL THAT 48 HOURS PRIOR TO CONSTRUCTION ALL UTILITY COMPANIES BE systems, programs and/or procedures for the project described in the contract APPENDIX D -- SEPARATION DISTANCE NOTIFIED TO LOCATE AND TAG THEIR UNDERGROUND FACILITIES PRIOR TO EXCAVATION. documents. The Contractor's implementation of these systems, programs and/or PROPOSED GATE VALVE PROPOSED SANITARY SEWER LINE procedures shall provide for adequate trench excavation safety protection that comply 3. THE CONTRACTOR NEEDS TO ALLOW FOR THE POSSIBILITY OF UNDETECTED with as a minimum, OSHA standards for trench excavations. Specifically, Contractor EXISTING GATE VALVE ----UNDERGROUND UTILITIES. ALSO, THE CONTRACTOR MUST ALLOW FOR CHANGES DUE and/or Contractor's independently retained employee or safety consultant shall TO UTILITIES BEING IN LOCATIONS DIFFERENT FROM THOSE SHOWN ON THE UTILITY 8"SS ---implement a trench safety program in accordance with OSHA standards governing the PROPOSED SANITARY SEWER MAIN & MANHOLE RECORD DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND EXPOSING presence and activities of individuals working in and around trench excavation. ——— EX 8"SS - — — CONFLICTS PRIOR TO CONSTRUCTION. EXISTING SANITARY SEWER MAIN & MANHOLE TYPICAL SANITARY SEWER/ WATER CROSSING DETAIL REFERNCE SAWS SPEC. ITEM 812 PROPOSED SERVICE LATERAL WITH ONE-WAY CLEAN-OUT VERTICAL STACK VS ELECTRIC, GAS, TELEPHONE & CABLE TV EASEMENT E.G.T.CA.E. TEMPORARY BENCHMARK BLOCK 91 MIN. F.F. = <u>795.5</u> PROPOSED MINIMUM FINISH FLOOR ELEVATION SANITARY SEWER/WATER CROSSING LOCATION  $\circ$ 14 \_15 16 17 18 OFFICIAL PUBLIC RECORDS OF BEXAR COUNTY, TEXAS O.P.R.B.C.T. MH R-1 \_STA. 3+80.00 LINE "R" STA. 6+60.00 LINE "R" OFFICIAL PUBLIC RECORDS OF MEDINA COUNTY, TEXAS O.P.R.M.C.T. TOP: 547.27 TOP: 548.67 12 MH A-23 STA. 1+00.00 LINE "R" =STA. 63+78.39 LINE "A" TOP: 545.63 —8"W— LINE "R" 90°40'20" **EDDIE ESTATE** 9 MH Q-1 15 STA. 9+39.61 LINE "R" 17 <sup>5</sup> 24 23 20 18 16 15 12 11 14 =STA. 1+00.00 LINE "Q" TOP: 549.86 Developer's Name SAN ANTONIO, LD. LLC. 4058 NORTH COLLEGE STE. 300, BOX 9 Developer's Address City FAYETTEVILLE Zip\_\_\_72703 Phone # \_\_\_\_\_479-455-9090 Fax # \_ SAWS Block Map # \_\_\_\_\_170-520 Total EDU's 121 Total Acreage 21.461 \_ Plat No. 22-11800353 Total Linear Footage of Pipe 8" ~ 2082 L.F. SAWS Job No. <u>22-1659</u> Number of Lots 121 LINE "R" HORIZONTAL SCALE: 1" = 50' VERTICAL SCALE: 1" = 5' STA. 1+00.00 TO STA. 9+39.61 575 575 MH R-2 INE "R" 548.67 541.30 PAUL LANDA, JR. 100182 1.61 L 1.00 L 1.00 L 1.52 L 1.42 L 570 570 565 565 560 560 OFILI PR 555 555 ∞ 550 550 SEWER LINE —PROPOSED PVM'T. CL. 545 545 279.61 L.F. ~ 8" PVC PIPE SDR-26 @ 0.40% 280.00 L.F. ~ 8" PVC PIPE SDR-26 @ 0.48% LINE "Q" - INV. IN ELEV:542.52 540 540 280.00 L.F. ~ 8" PVC PIPE SDR-26 @ 0.60% SANITARY LINE "A" - INV. OUT \_ ELEV:537.97 535 535 530 530 SANITARY SEWER INVERT SHEET C2.4 1+00 2+00 3+00 5+00 6+00 7+00 9+00 4+00 8+00 SUBMITTAL SET







SAN ANTONIO WATER SYSTEM

SAN ANTONIO, TEXAS

( SEWER ONLY )

DD-839-03

SAN ANTONIO WATER SYSTEM

SAN ANTONIO, TEXAS

DETAILS

DD-858-02

SAN ANTONIO WATER SYSTEM

SAN ANTONIO, TEXAS

TESTING MANDREL CHART

DD-848-01

GO, NO GO DEFLECTION

TESTING MANDREL

AN ANTONIO WATER SYSTEM

SAN ANTONIO, TEXAS

March 2008

DD-848-01

SANITARY SEWER PIPE

LAID IN TRENCH

DD-804-01

SAN ANTONIO WATER SYSTEM

SAN ANTONIO, TEXAS

SUBMITTAL SET

PAUL LANDA, JR. 100182

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ANIT,

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SHEET

TABLE OF CONTENTS

TITLE

WATER COVER

WATER OVERALL

WATER OVERALL

SHEET No.

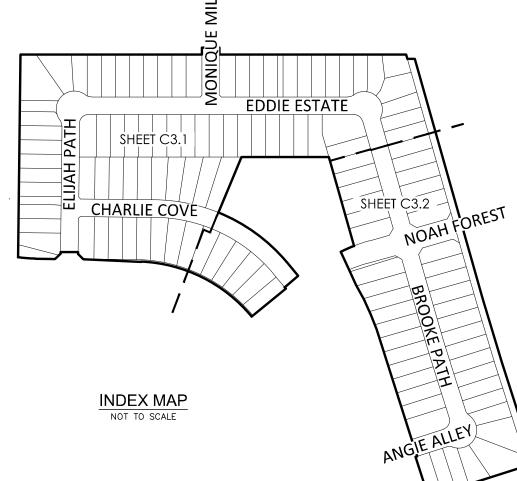
C3.0

C3.1

FAYETTEVILLE, AR 72703

(479) 455-9090

SAN ANTONIO, LD. LLC.



# **ESTIMATED WATER QUANTITIES**

ITEM	DESCRIPTION	UNIT	EST/QTY
1	8" WATER MAIN TIE-IN	L.S.	4
2	TRENCH EXCAVATION PROTECTION	L.F.	3,496
3	8" PIPE, C900 DR 18 PVC CLASS 235 (Includes Joint Restraints)	L.F.	3,341
4	12" PIPE, C900 DR 18 PVC CLASS 235 (Includes Joint Restraints)	L.F.	155
5	8" GATE VALVE, M.J. (COMPLETE WITH RESTRAINTS) WITH VALVE BOX	EA.	4
6	12" GATE VALVE, M.J. (COMPLETE WITH RESTRAINTS) WITH VALVE BOX	EA.	5
7	STANDARD FIRE HYDRANT (COMPLETE WITH TEE, VALVE, BENDS AND RESTRAINTS)	EA.	4
8	2" TEMPORARY BLOW-OFF	EA.	5
9	3/4" SINGLE SERVICE with 5/8" METER : SHORT	EA.	60
10	3/4" SINGLE SERVICE with 5/8" METER : LONG	EA.	61
11	IRRIGATION SERVICE with 1" METER : SHORT	EA.	1
12	12"x12" CUT-IN TEE	EA.	1
13	D.I. FITTINGS (RESTRAINED)	TON	1.80
14	HYDROSTATIC TESTING	EA.	1
15	METER BOXES	EA.	122

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

TRENCH EXCAVATION SAFETY PROTECTION

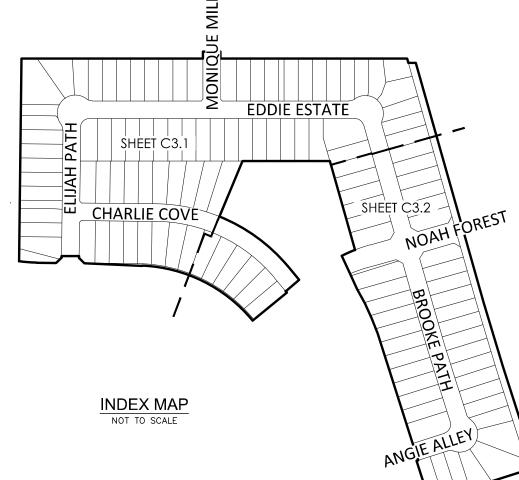
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PRESSURE ZONE 750

Developer's Name_SAN ANTONIO, LD. LLC.
Developer's Address 4058 NORTH COLLEGE STE. 300, BOX 9
City_FAYETTEVILLE State_ AR Zip_ 72703
Phone #(479) 455-9090 Fax #
SAWS Block Map # 170-520 Total EDU's 123 Total Acreage 19.458
Total Linear Footage of Pipe 8" ~ 3341 L.F. / 12" ~ 155 L.F. Plat No. 22-11800353
N

# OWNER/DEVELOPER

4058 NORTH COLLEGE STE. 300, BOX



ITEM	DESCRIPTION	UNIT	EST/QTY
1	8" WATER MAIN TIE-IN	L.S.	4
2	TRENCH EXCAVATION PROTECTION	L.F.	3,496
3	8" PIPE, C900 DR 18 PVC CLASS 235 (Includes Joint Restraints)	L.F.	3,341
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13	D.I. FITTINGS (RESTRAINED)	TON	1.80
14	HYDROSTATIC TESTING	EA.	1
15	METER BOXES	EA.	122

THE CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING

Contractor and/or Contractor's independently retained employee or structural

\_\_\_ SAWS Job No. \_\_\_\_22-1166 Number of Lots\_\_\_\_\_

# CONSTRUCTION PLANS FOR

ROOSEVELT LANDING, UNIT 2

WATER IMPROVEMENTS

## **SAWS CONSTRUCTION NOTES COUNTER PERMIT AND GENERAL CONSTRUCTION PERMIT**

- 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
- 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
- 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
- 10. The Contractor shall not place any waste materials in the 100-year Flood Plain without first obtaining an approved Flood 11. Holiday Work: Contractors will not be allowed to perform SAWS work on SAWS recognized holidays. Request should be
- Weekend Work: Contractors are required to notify the SAWS Inspection Construction Department 48 hours in advance to
- request weekend work. Request should be sent to constworkreq@saws.org. Any and all SAWS utility work installed without holiday/weekend approval will be subject to be uncovered for proper
- 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.

- 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
- 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), 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).

the contractor but will be installed by SAWS Distribution and Collection staff.

- 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

- 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.

OF DETOUR SIGNS ARE THE CONTRACTOR'S RESPONSIBILITY. UNLESS DIRECTED OTHERWISE BY THE PLANS. ALL NON-WORKING HOURS A MINIMUM OF TWO TRAFFIC LANES (24 FT.) SHALL BE OPEN TO TRAFFIC. ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD), TO PROPERLY WARN, GUIDE AND CONTROL TRAFFIC AT ALL TIMES DURING CONSTRUCTION.

# MISCELLANEOUS GENERAL NOTES

- MACHINE CHLORINATION BY THE SAN ANTONIO WATER SYSTEM FOR NEW WATER MAINS GREATER THAN 800 FEET. CONTRACTOR SHALL CHLORINATE NEW
- 2. JUMPER CONNECTIONS TO EXISTING WATER SERVICE TO BE PROVIDED AS
- 4. FITTINGS WEIGHT IS BASED ON M.J. DUCTILE IRON FITTINGS (COMPACT).
- 5. CONTRACTOR TO OBTAIN STREET CUT PERMITS AS NECESSARY FOR WATER MAIN INSTALLATION. REPLACEMENT OF CURB, SIDEWALKS, BASE AND PAVEMENT
- \*6. MINIMUM COVER OVER WATER MAIN BASED ON FINISHED GROUND. WATER LINE DIA. MIN. DEPTH

# NOTE TO CONTRACTOR:

# TRAFFIC CONTROL NOTE:

NECESSARY TRAFFIC CONTROL. FLAGMEN, DETOUR ROUTING AROUND WORK ACTIVITIES AND MAINTENANCE 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 CONTRACTOR WILL FURNISH AND MAINTAIN ALL REQUIRED TRAFFIC CONTROL DEVICES PER TEXAS MANUAL

- MAINS WITH HTH FOR NEW WATER MAINS 750 FEET AND LESS
- REQUIRED OR DIRECTED BY THE SAWS INSPECTOR.
- ALL MAINS ARE ON-SITE.
- WILL BE SUBSIDIARY TO THE ITEMS THAT THE STREET CUT WAS NEEDED FOR.

# PAUL LANDA, JR.

**VICINITY MAP** 

**SUBMITTAL DATE:** 

8/23/2022

LEGAL DESCRIPTION:

BEING A 19.541 ACRE TRACT OUT OF A 52.24 ACRE TRACT OF

CONVEYED TO SAN ANTONIO LD, LLC, BY WARRANTY DEED AS

RECORDED IN DOCUMENT NUMBER 20220056276 OF THE OFFICIAL

ABSTRACT NO. 3, COUNTY BLOCK 4006, BEXAR COUNTY, TEXAS AS

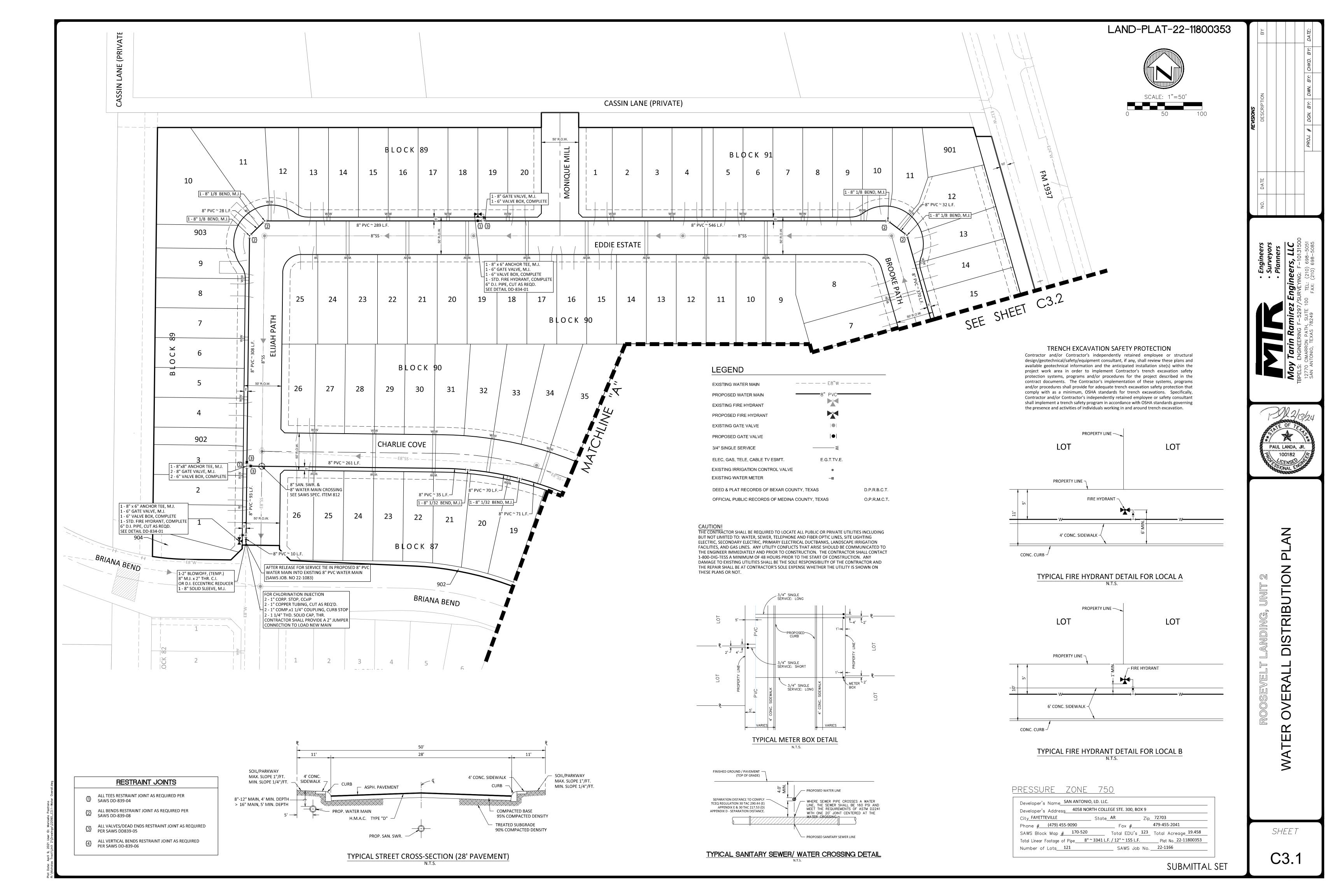
LAND SITUATED IN THE JOSE ANTONIO DE LA GARZA SURVEY

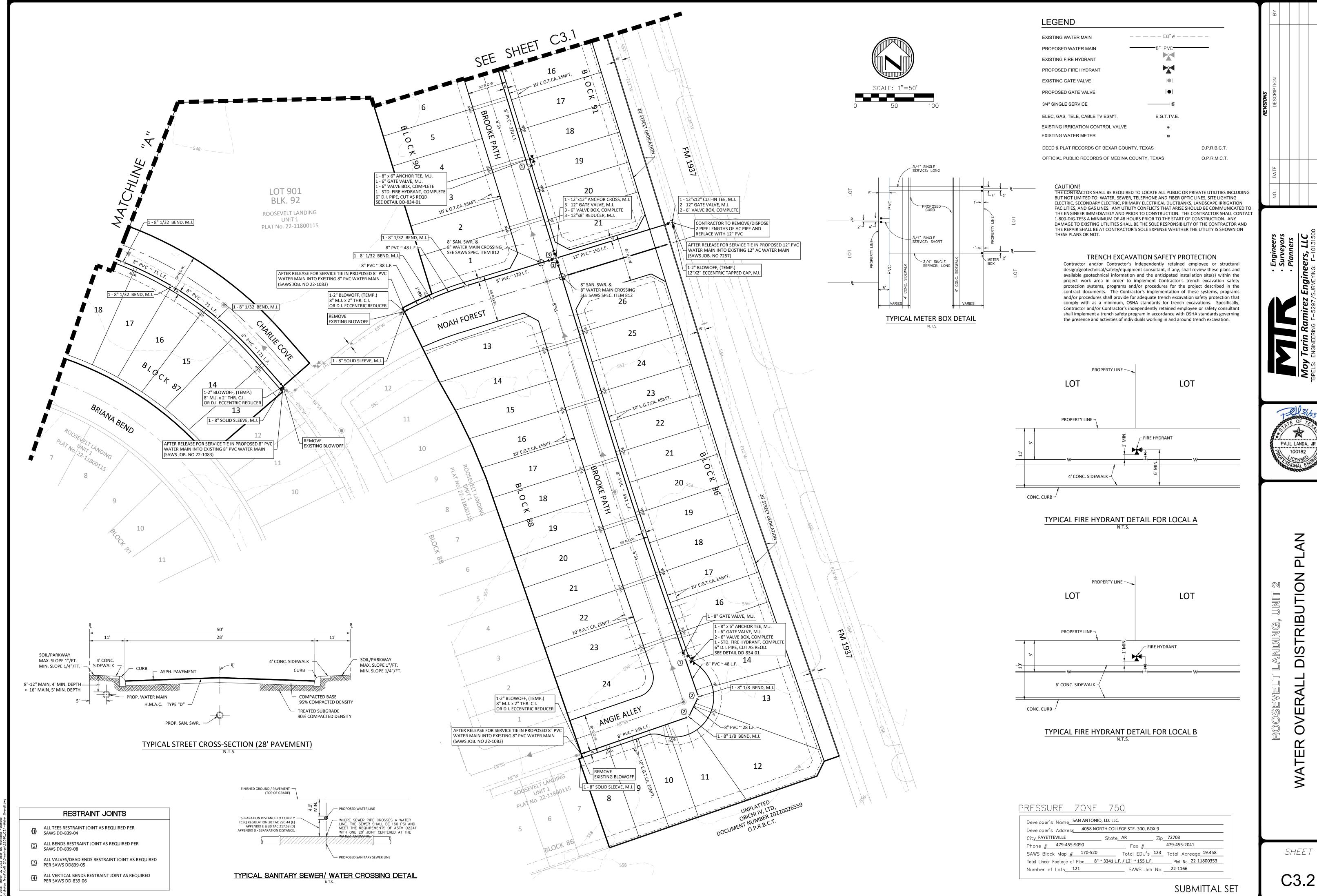
PUBLIC RECORDS OF BEXAR COUNTY, TEXAS.



FIRM TBPELS ENG F-5297 SVY F-10131500 12770 CIMARRON PATH, SUITE 100 TEL: (210) 698-5051 SAN ANTONIO, TEXAS 78249 FAX: (210) 698-5085

Surveyors





# CONSTRUCTION PLANS FOR

- 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 TELE. NO.: 210-704-7109 TEXAS STATE WIDE ONE CALL LOCATOR TELE. NO.: 800-545-6005 CITY PUBLIC SERVICE

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.
- 6. 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 REINFORCING STEEL: CONFORM TO A.S.T.M. A-615, GRADE 60 (2" COVER UNLESS OTHERWISE NOTED ON PLANS)
- 8. CONTRACTOR TO COORDINATE CONCRETE CURB DEPRESSIONS WITH THE DEVELOPER (NO SEPARATE PAY ITEM).

PIPE RAILING: CONFORM TO A.S.T.M. A-53, GRADE B, OR A-501

9. TRANSITION TO/FROM WASHOUT CROWNS IN TWENTY-FIVE FEET (25').

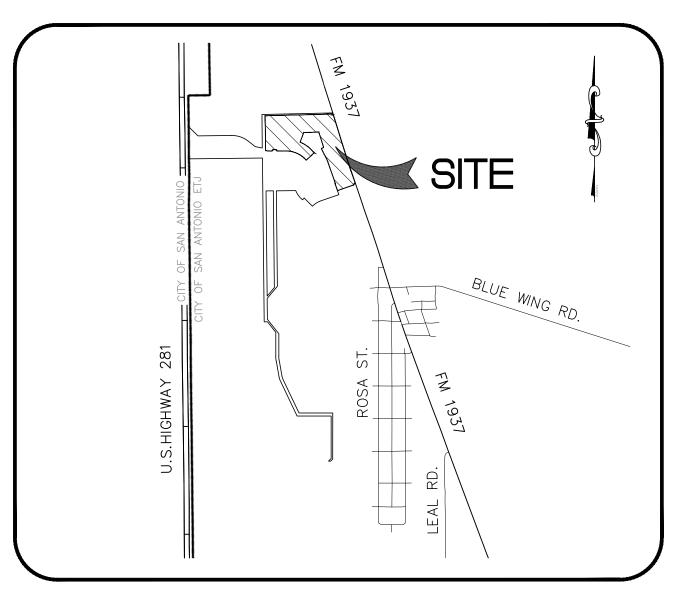
STRUCTURAL STEEL: CONFORM TO A.S.T.M. A-36

10. 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 APPENDIX H, CHAPTER 16, SECTION 2.1 - GRASSES OF THE CITY OF SAN ANTONIO

FLOW ARROW

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 (DEVELOPER INSTALLED)	©
SIDEWALK WHEELCHAIR RAMP - TYPE I (DEVELOPER INSTALLED)	D
SIDEWALK WHEELCHAIR RAMP - TYPE 11 (DEVELOPER INSTALLED) OFFSET PARALLEL RAMP	E
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	,070070070070 0000000000000000000000000
WASH-OUT CROWN	
FILL @ 95% COMPACTION	
POSSIBLE DRIVEWAY LOCATION	
PROPERTY LINE -	
EXISTING CONTOUR -	— — — 1120 — — —
PROPOSED CONTOUR -	1120
PROPOSED CONCRETE CURB =	
ELOW ADDOM	_

# ROOSEVELT LANDING, UNIT 2 STREET AND DRAINAGE IMPROVEMENTS

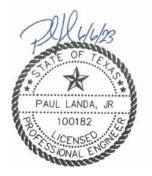




# SUBMITTAL DATE: 9/12/22

# LEGAL DESCRIPTION:

BEING A 19.548 ACRE TRACT OUT OF A 52.24 ACRE TRACT OF LAND SITUATED IN THE JOSE ANTONIO DE LA GARZA SURVEY ABSTRACT NO. 3, COUNTY BLOCK 4006, BEXAR COUNTY, TEXAS AS CONVEYED TO SAN ANTONIO LD, LLC, BY WARRANTY DEED AS RECORDED IN DOCUMENT NUMBER 20220056276 OF THE OFFICIAL PUBLIC RECORDS OF BEXAR COUNTY, TEXAS.





FIRM TBPELS ENG F-5297 SVY F-10131500 12770 CIMARRON PATH, SUITE 100 TEL: (210) 698-5051 SAN ANTONIO, TEXAS 78249 FAX: (210) 698-5085

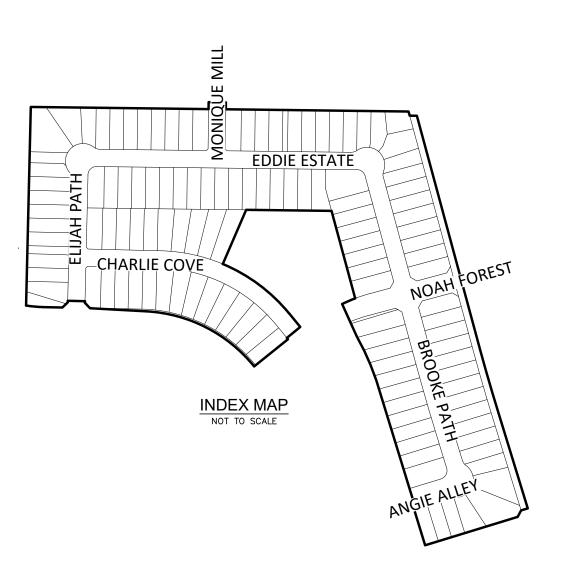
# MOY TARIN RAMIREZ ENGINEERS, LLC.

SUBMITTED BY:

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

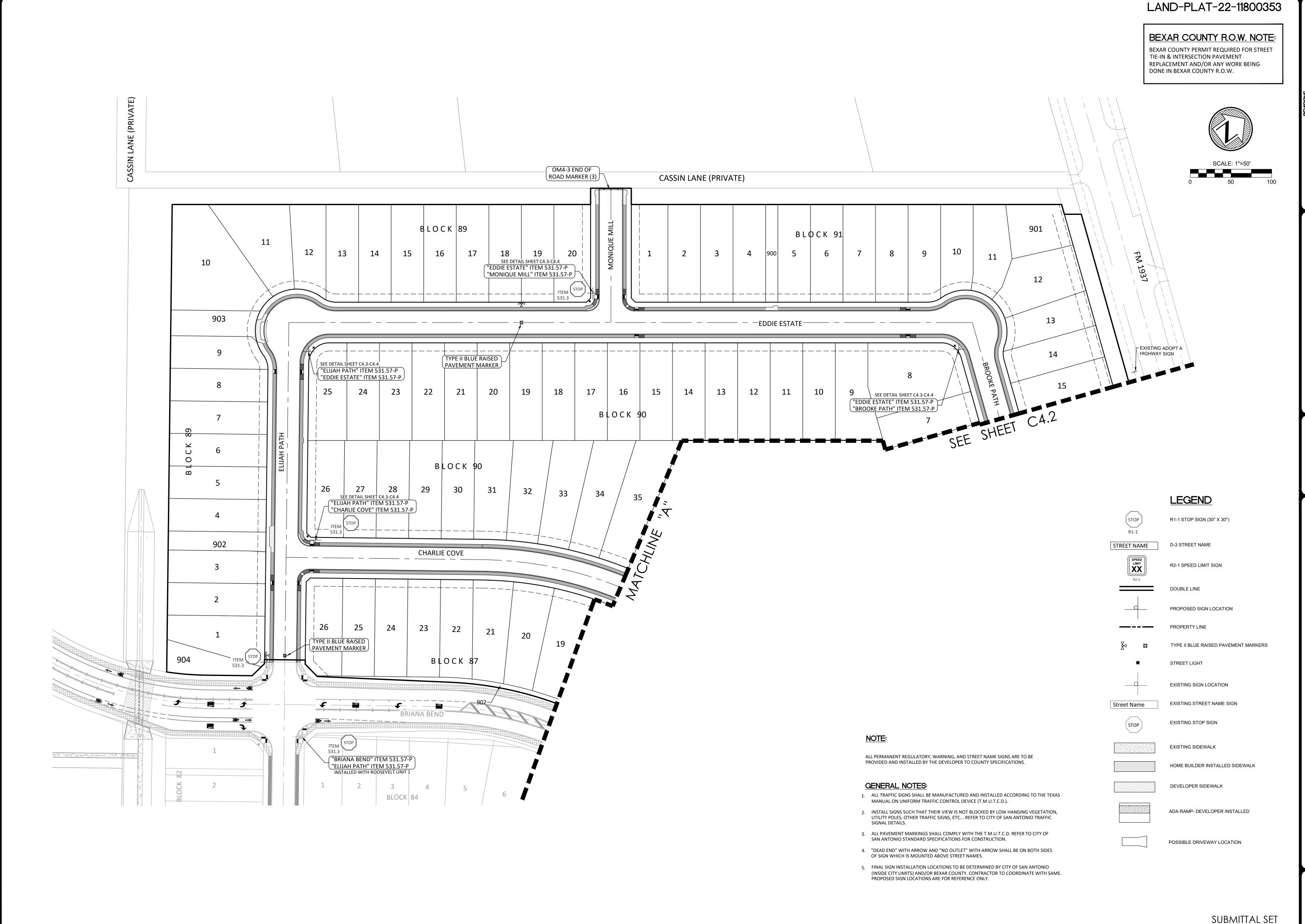
# OWNER/DEVELOPER

SAN ANTONIO, LD. LLC. 4058 NORTH COLLEGE STE. 300, BOX 9 FAYETTEVILLE, AR 72703 (479) 455-9090



# **Sheet List Table**

JIICCT LIS	LIADIC
Sheet Number	Sheet Title
C4.0	STREET COVER
C4.1	TRAFFIC PLAN
C4.2	TRAFFIC PLAN
C4.2A	PAVEMENT MARKINGS
C4.3	TRAFFIC DETAILS
C4.4	TRAFFIC DETAILS
C4.5	ELIJAH PATH PLAN AND PROFILE
C4.6	CHARLIE COVE PLAN AND PROFILE
C4.7	EDDIE ESTATE PLAN AND PROFILE
C4.8	BROOKE PATH PLAN AND PROFILE
C4.9	NOAH FOREST PLAN AND PROFILE
C4.10	MONIQUE MILL & ANGIE ALLEY PLAN AND PROFILE
C4.11	DRAIN "A"
C4.12	DRAIN "F"
C4.13	DRAIN "G"
C4.14	DRAIN "H"
C4.15	DRAIN DETAILS
C4.16	STANDARD DETAILS
C4.17	STANDARD DETAILS
C4.18	STANDARD STREET SECTIONS



DATE DESCRIPTION

PROJ. # DGN. BY: CHKD. BY:

• Surveyors
• Surveyors
• Planners

Engineers, LLC
SURVEYING: F-10131500

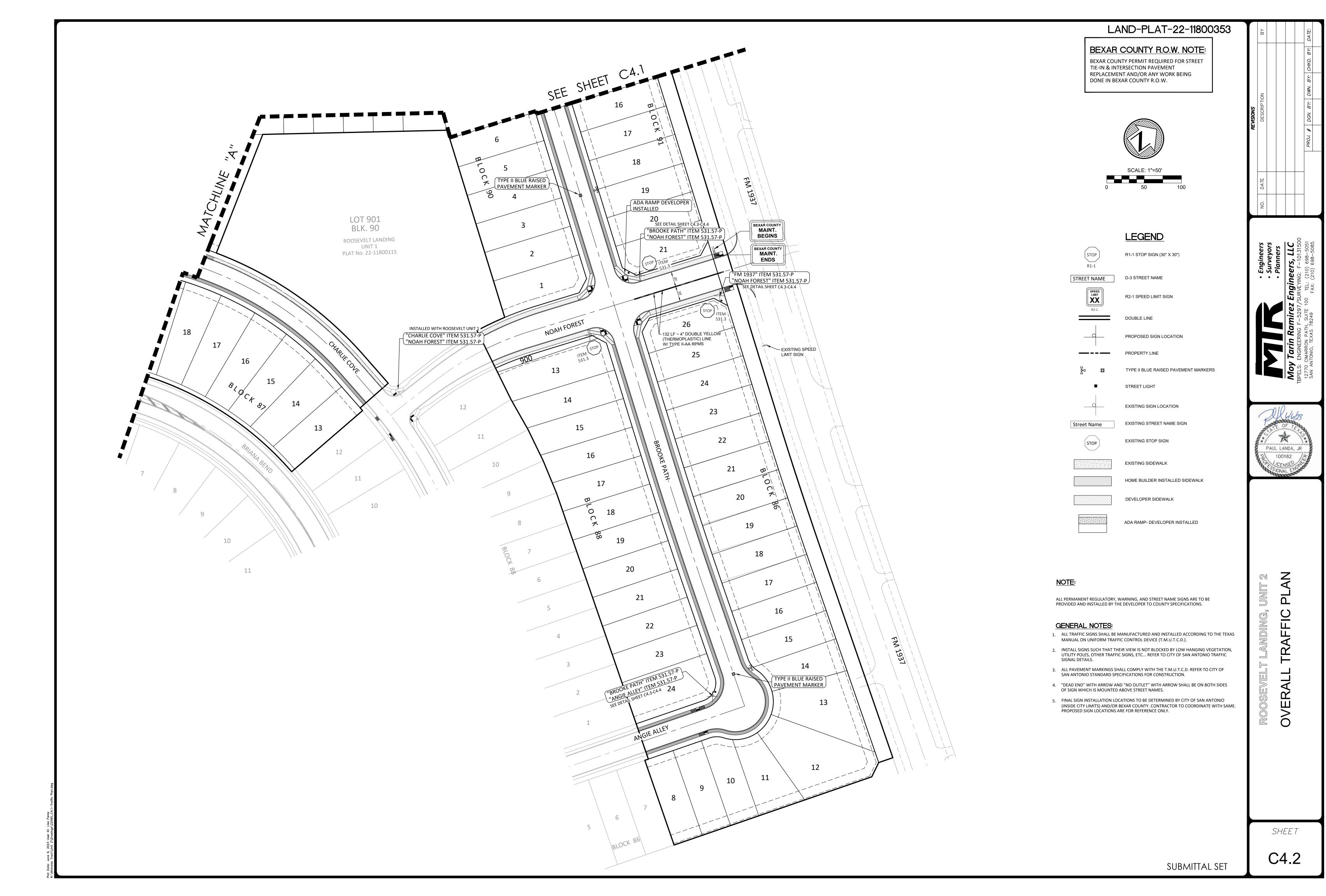
Moy Tarin Ramirez En
PELS: ENGINEERING F-5297/SURY

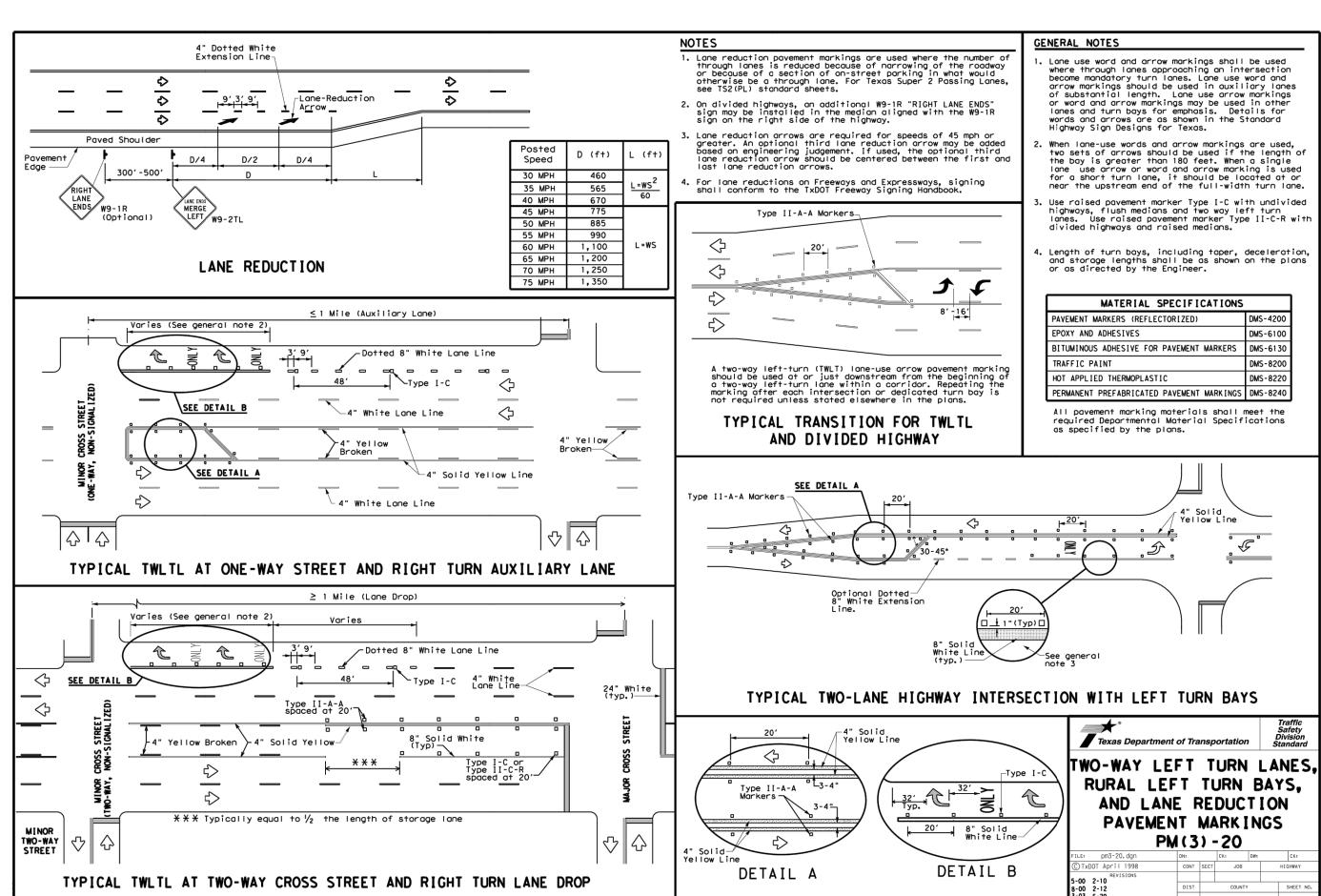


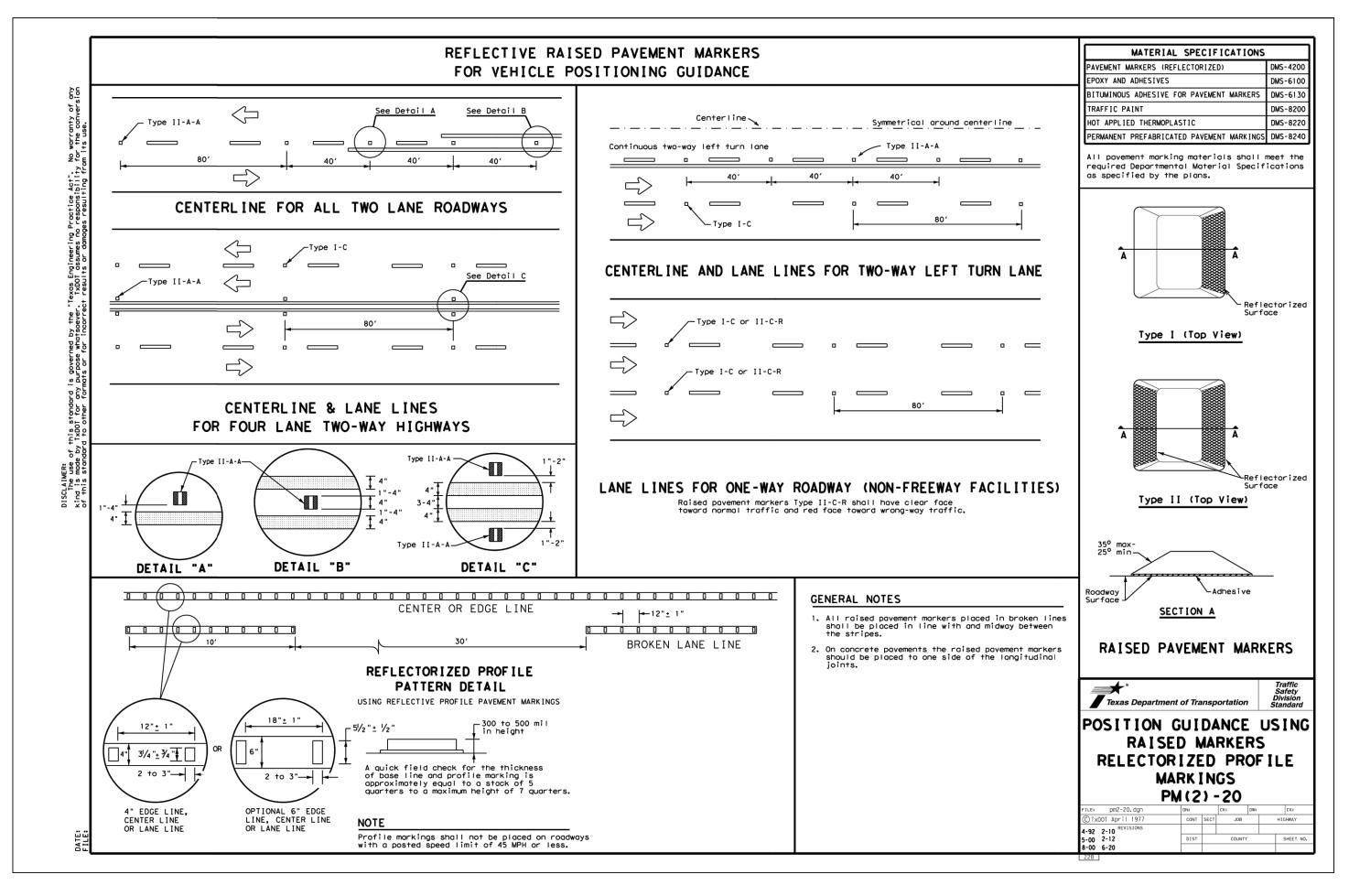
OVERALL TRAFFIC PLAN

SHEET

C4.1







 PROJ.
 # DGN.
 BY:
 CHKD.
 BY:
 DATE
 DESCRIPTION

 NO.
 DATE
 DESCRIPTION
 DESCRIPTION

• Surveyors
• Surveyors
• Surveyors
• Planners

RERING F-5297/SURVEYING: F-1013150C

N PATH, SUITE 100 TEL: (210) 698-5051

FYAS, 78749



PAVEMENT MARKINGS

SHEET

the plans.

11. Additional sign clamp required on the "T-bracket" post for 24 inch high signs. Place the clamp 3 inches above bottom of sign when possible.

12. Post open ends shall be fitted with Friction Caps.

10BWG (1) XX (P-BM) Y 10BWG (1) XX (T)

10BWG (1) XX (P-BM)

TY 10BWG(1)XX(T)

TY S80(1)XX(T)

Y 10BWG(1)XX(T)

TY S80(1)XX(T)

Y 10BWG(1)XX(T)

Y 10BWG(1)XX(T)

Y 10BWG(1)XX(T)

Texas Department of Transportation

Traffic Operations Division

REQUIRED SUPPOR

SIGN DESCRIPTION

48-inch STOP sign (R1-1)

60-inch YIELD sign (R1-2)

48x60-inch signs

48x60-inch signs

48x16-inch ONE-WAY sign (R6-1)

36x48, 48x36, and 48x48-inch signs

48x48-inch signs (diamond or square)

48-inch School X-ing sign (S2-1)

Large Arrow sign (W1-6 & W1-7)

48-inch Advance School X-ing sign (S1-1)

3/8" x 4" heavy hex

A307 galvanized per

T-Bracket

Sign Clamps (Specific or Universal)

3/8" x 4 1/2"

square head

bolt, nut, flat washer and lock washer per ASTM A307 galvanized

per Item 445, "Galvanizing."

Detail E

Use Extruded Alum. Windbeam as stiffeners

See SMD (2-1) for additional details

bolt with nut, lock washer and 2 flat washers per ASTM

Drill 7/16" hole

(through) after

washers and

Extender \_\_

stiffeners attached with

for additional

See Detail E

for clamp installation

assembly and instal

Detail C

Splices shall only be allowed behind the sign substrate.

nut, lock washer

2 flat washers per ASTM A307

galvanized per Item 445,

"Galvanizing."

Side View

<---- .2w-->

2 7/8" O.D.

Sch. 80

6" panel should be placed at the top of

sign for proper mounting

Detail B

w variable

Typical Sign Mount

SM RD SGN ASSM TY S80(2)XX(P-EXAL)

f X Additional stiffener placed at approximate center

of signs when sign width is greater than 10'.

Sign clamp —

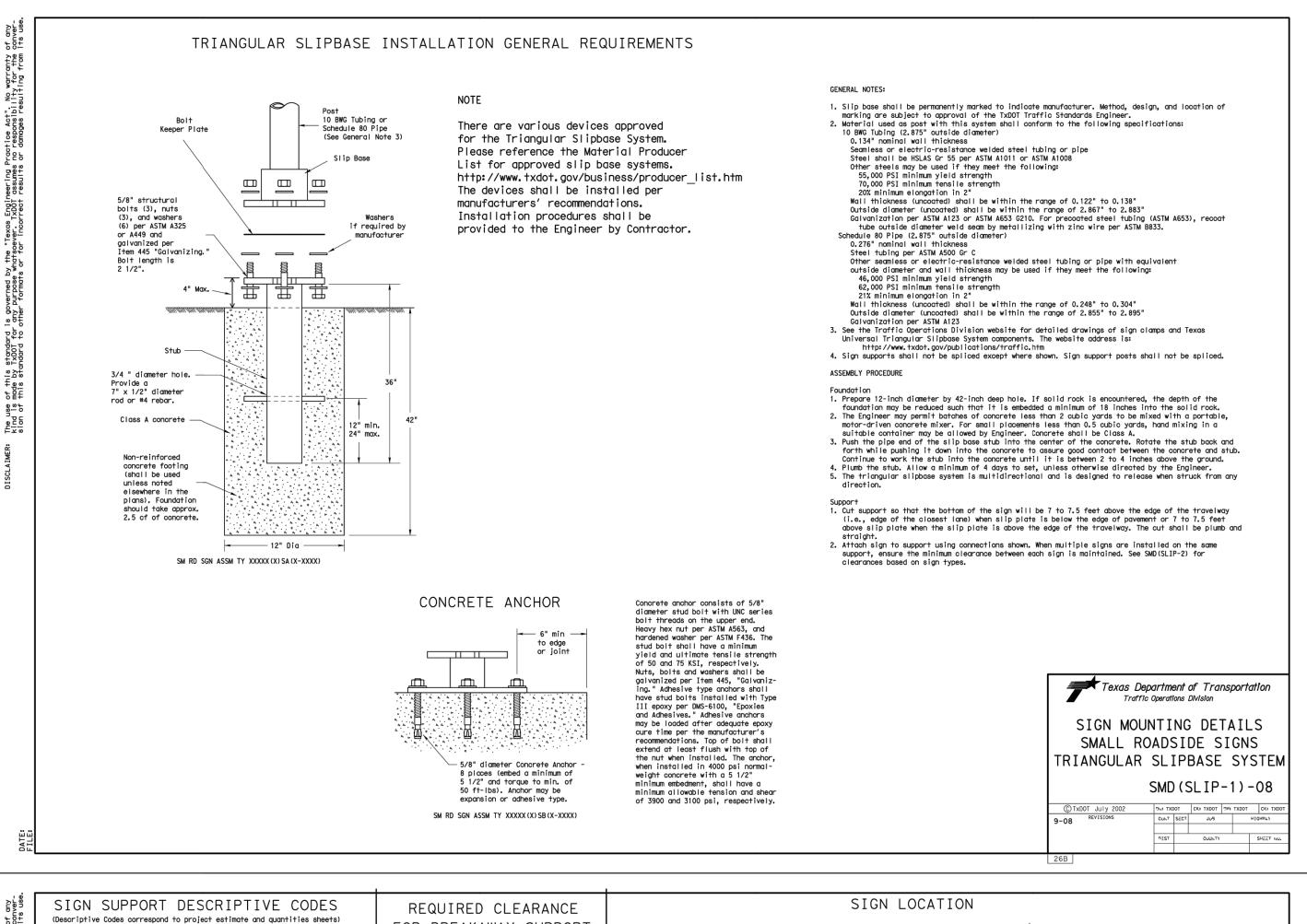
Ш

4

H N



C4.3



PAVED SHOULDERS

BEHIND BARRIER

\*\*Sign clearance based on distance required for proper guard rail or concrete barrier performance.

6 ft min <del>|-</del>

Shoulder |

edge of the shoulder.

2 ft min\*\* -

Maximum

/HIGHWAY

INTERSECTION `

AHEAD

/ HIGHWAY

INTERSECTION

AHEAD

BEHIND GUARDRAIL

3713 ROAD

When a supplemental plaque

or secondary sign is used, the 7 ft sign height is measured to the bottom of

the supplemental plaque

or secondary sign.

7.0 ft min \*

CURB & GUTTER OR RAISED ISLAND

/HIGHWAY

(INTERSECTION)

7.5 ft max

7.0 ft min \*

7.5 ft max

→ 0 to 6 ft

LESS THAN 6 FT. WIDE

When the shoulder is 6 ft. or less in width, the sign must be placed at least 12 ft. from

Shoulder

5 ft min\*\* -

the edge of the travel lane.

SIGNS WITH PLAQUES

/HIGHWAY

INTERSECTION

AHEAD

GREATER THAN 6 FT. WIDE

When the shoulder is greater than 6 ft in width, the sign must be placed at least 6 ft. from the

/HIGHWAY`

INTERSECTION

AHEAD

Barrier

BEHIND CONCRETE BARRIER

RESTRICTED RIGHT-OF-WAY

(When 6 ft min. is not possible.)

7.5 ft max 7.0 ft min \*

Right-of-way restrictions may be created

In situations where a lateral restriction

prevents the minimum horizontal clearance from the edge of the travel lane, signs

should be placed as far from the travel

\*\*\* Post may be shorter if protected by

guardrail or if Engineer determines the post could not be hit due to extreme

ane as practical.

by rocks, water, vegetation, forest,

buildings, a narrow island, or other

/HIGHWAY

INTERSECTION

AHEAD

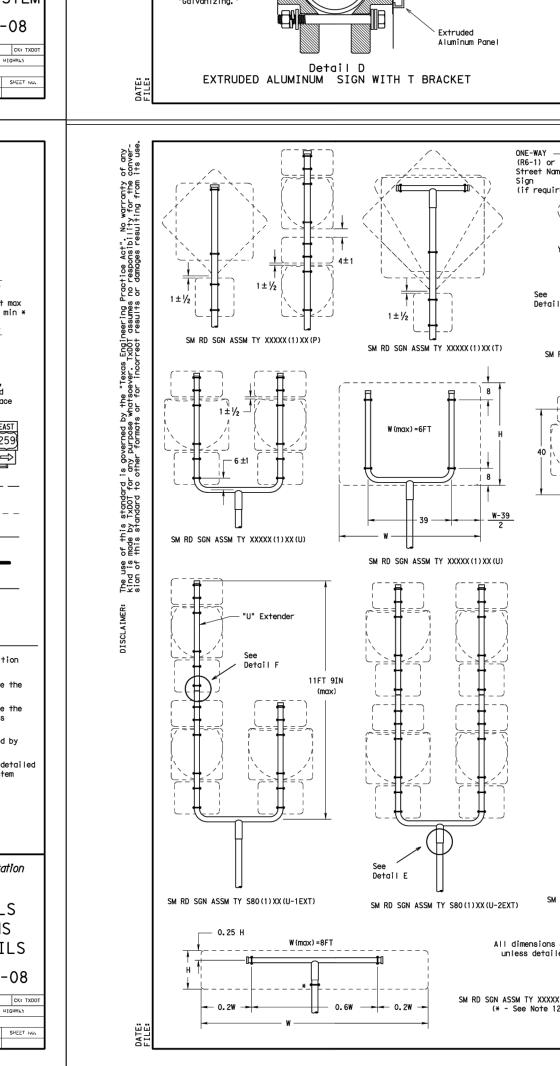
7.0 ft min \*

as close to ROW as practical.

Edge of Travel Lane

the Engineer.

The website address is:



See Detail (

SM RD SGN ASSM TY XXXXX(1)XX(U-XX)

Top View

Detail A

Sign Clamp

(Specific or

Universal

5/16" x 4 1/2"

galvanized per

hex bolt with

nut. lock washer

nut, lock washer, 2 flat washers per ASTM A307

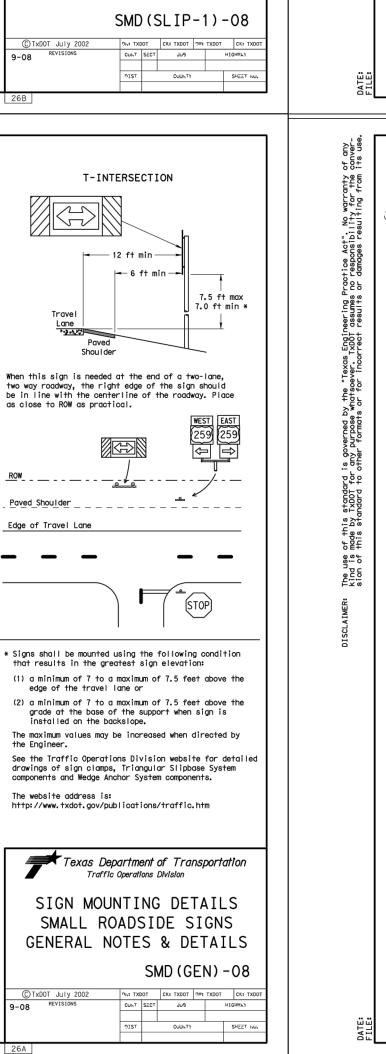
SM RD SGN ASSM TY XXXXX(1)XX(T-2EXT)

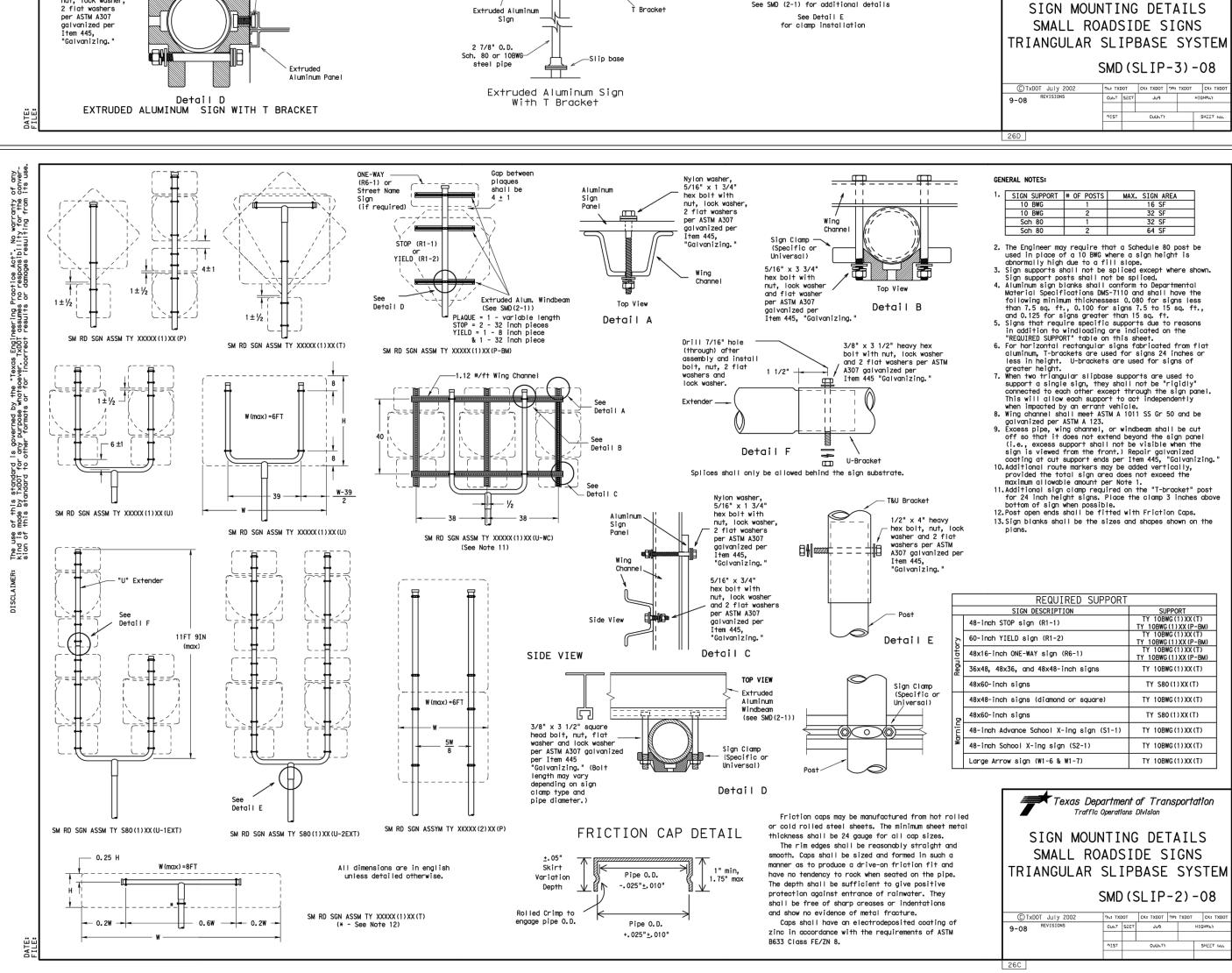
(\* - See Note 12)

Extruded Alum. Windbeam (See Detail D on SMD (SLIP-2))

<-- 0.15W →--

—<del>-</del> 0.15W →







SM RD SGN ASSM TY XXXXX(X)XX(X-XXXX)

(i.e., stub).

Acceptable

diameter circle

— Sign Panel

Approximate Bolt Length

4 1/2"

Pipe Diameter Specific Clamp Universal Clamp
2" nominal 3" 3 or 3 1/2"
2 1/2" nominal 3 or 3 1/2" 3 1/2 or 4"

Back-to-Back

Signs

∠ Clamp Bolt 🚟

3" nominal 3 1/2 or 4"

Nylon washer, flat

Pipe Diameter

diameter

circle /

washer, lock washer,

TYPICAL SIGN ATTACHMENT DETAIL

To avoid vehicle undercarriage snagging, any

circle /

Not Acceptable

Not Acceptable

7.5 ft max-

7.0 ft min \*

substantial remains of a breakaway support when it is broken away, should not project

more than 4 inches above a 60-inch chord

(i.e., typical space between wheel paths)

FRP = Fiberglass Reinforced Plastic Pipe (see SMD(FRP))

TWT = Thin-Walled Tubing (see SMD(TWT))

10BWG = 10 BWG Tubing (see SMD(SLIP-1) to (SLIP-3))

S80 = Schedule 80 Pipe (see SMD(SLIP-1) to (SLIP-3))

S = Wedge Anchor Steel - (see SMD(TWT))

= Prefab. "U" (see SMD(SLIP-1) to (SLIP-3))

No more than 2 sign

posts should be located

BM = Extruded Wind Beam (see SMD(SLIP-1) to (SLIP-3))

WC = 1.12 #/ft Wing Channel (see SMD(SLIP-1) to (SLIP-3))
EXAL = Extruded Aluminum Sign Panels (see SMD(SLIP-3))

UA = Universal Anchor - Concreted (see SMD(FRP) and (TWT))
UB = Universal Anchor - Bolted down (see SMD(FRP) and (TWT))

WP = Wedge Anchor Plastic (see SMD(TWT))
SA = Slipbase - Concreted (see SMD(SLIP-1) to (SLIP-3))

SB = Slipbase - Bolted Down (see SMD(SLIP-1) to (SLIP-3))

P = Prefab. "Plain" (see SMD(SLIP-1) to (SLIP-3), (TWT), (FRP))

EXT or 2EXT = Number of Extensions (see SMD(SLIP-1) to (SLIP-3), (TWT))

\_\_\_

'Not Acceptable

\_\_\_\_Nylon washer, flat

diameter

Single Signs

Sign Post

Bolts used to mount sign panels to the clamp are

5/16-18 UNC galvanized square head with nut, nylon washer, flat washer and lock washer. The

When two sign clamps are used to mount signs back-to-back, use a 5/16-18 UNC galvanized hex

head per ASTM A307 with nut and helical-spring lock

Sign clamps may be either the specific size clamp

washer. The approximate bolt lengths for various post

sizes and sign clamp types are given in the table at right. The bolt length may need to be adjusted

bolt length is 1 inch for aluminum.

depending upon field conditions.

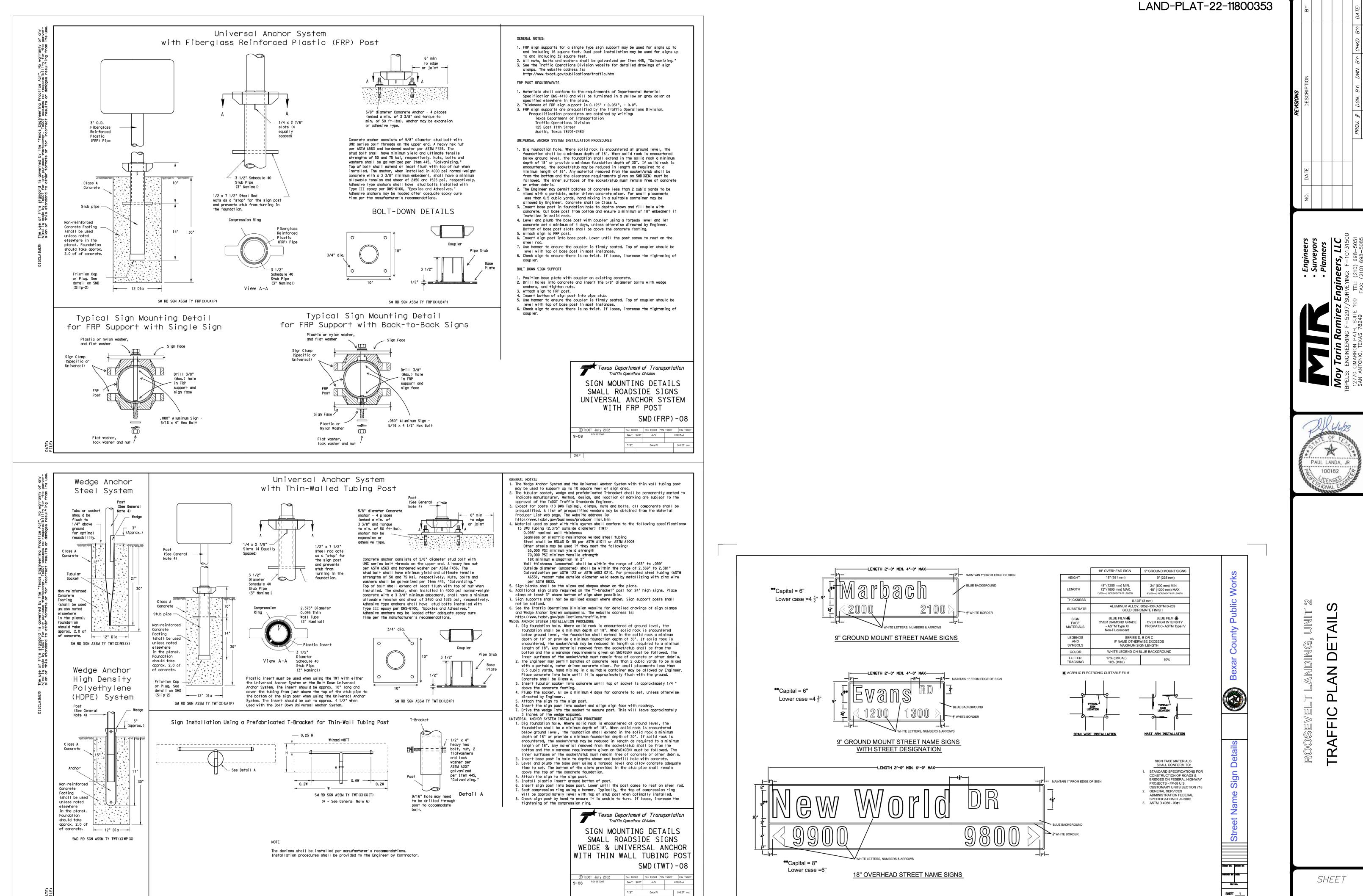
or the universal clamp.

circle /

Number of Posts (1 or 2) —

Sign Mounting Designation

Anchor Type -



SUBMITTAL SET

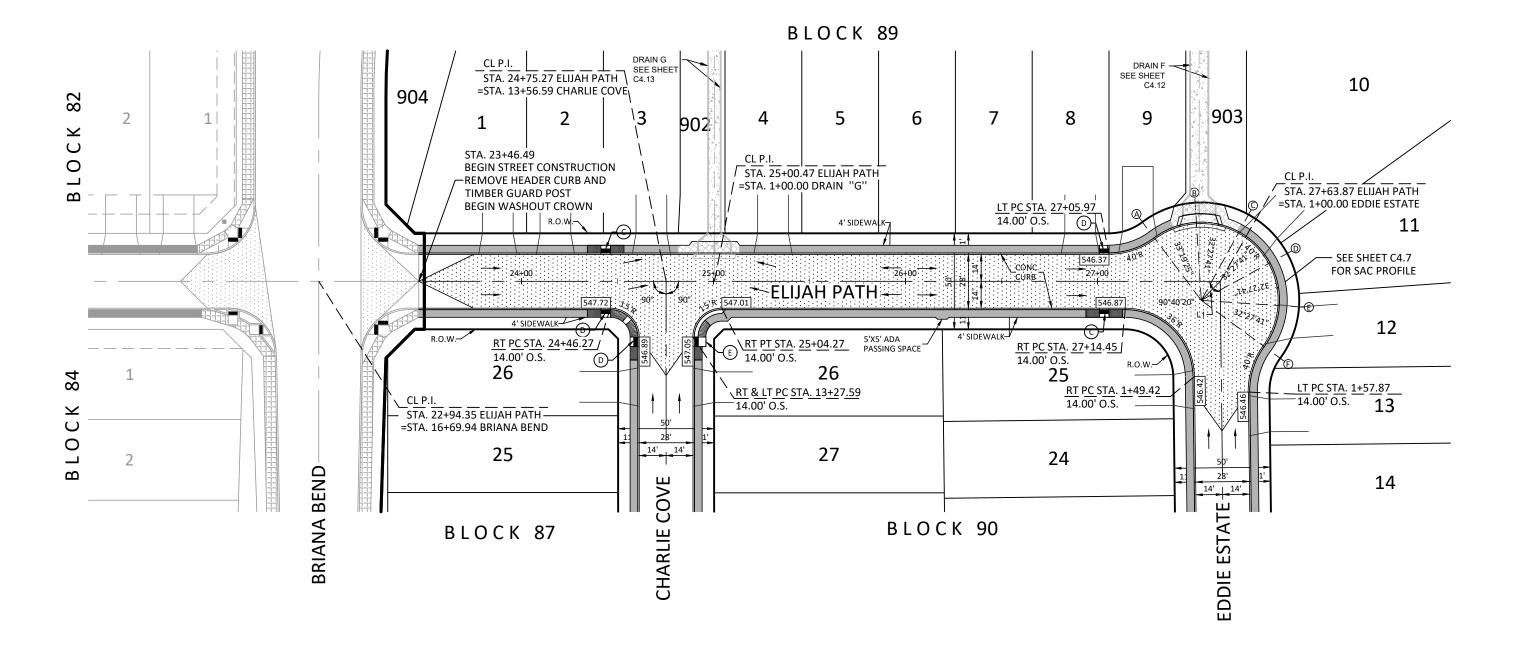
C4.4

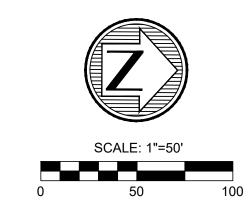
CAUTION!!!

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.





LINE TABLE LINE LENGTH BEARING L1 14.00' N45°57'26"W

KNUCKLE SAC TABLE				
POINT	TOP OF CURB	GUTTER		
RT PT STA. 27+05.97	546.37	545.79		
Α	546.11	545.53		
В	545.88	545.30		
С	546.00	545.42		
D	546.11	545.53		
E	546.22	545.64		
F	546.34	545.64		
LT PC STA. 1+57.87	546.46	545.88		

# LAND-PLAT-22-11800353

LEGEND
CONTRACTOR TO TIE EXISTING AND PROPOSED CURB/SIDEWALK. PRIOR TO CONSTRUCTION CONTRACTO SHALL VERIFY ELEVATIONS.
SIDEWALK WHEELCHAIR RAMP - TYPE 10 DIRECTIONAL RAMPS (SINGLE)

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)	©
SIDEWALK WHEELCHAIR RAMP - TYPE I (DEVELOPER INSTALLED)	D
SIDEWALK WHEELCHAIR RAMP - TYPE 11 (DEVELOPER INSTALLED) OFFSET PARALLEL RAMP	E

(DEVELOPER INSTALLED) OFFSET PARALLEL RAMP	(E)
EXISTING TOP OF CURB ELEVATION	805.81TC
PROPOSED TOP OF CURB ELEVATION	805.81

DEVELOPER INSTALLED SIDEWALK

SIDEWALK WHEEL CHAIR RAMP

HOME BUILDER INSTALLED SIDEWALK

EXISTING SIDEWALK

FILL @ 95% COMPACTION

WASH-OUT CROWN

POSSIBLE DRIVEWAY LOCATION PROPERTY LINE

**EXISTING CONTOUR** PROPOSED CONTOUR PROPOSED CONCRETE CURB

FLOW ARROW \_\_\_

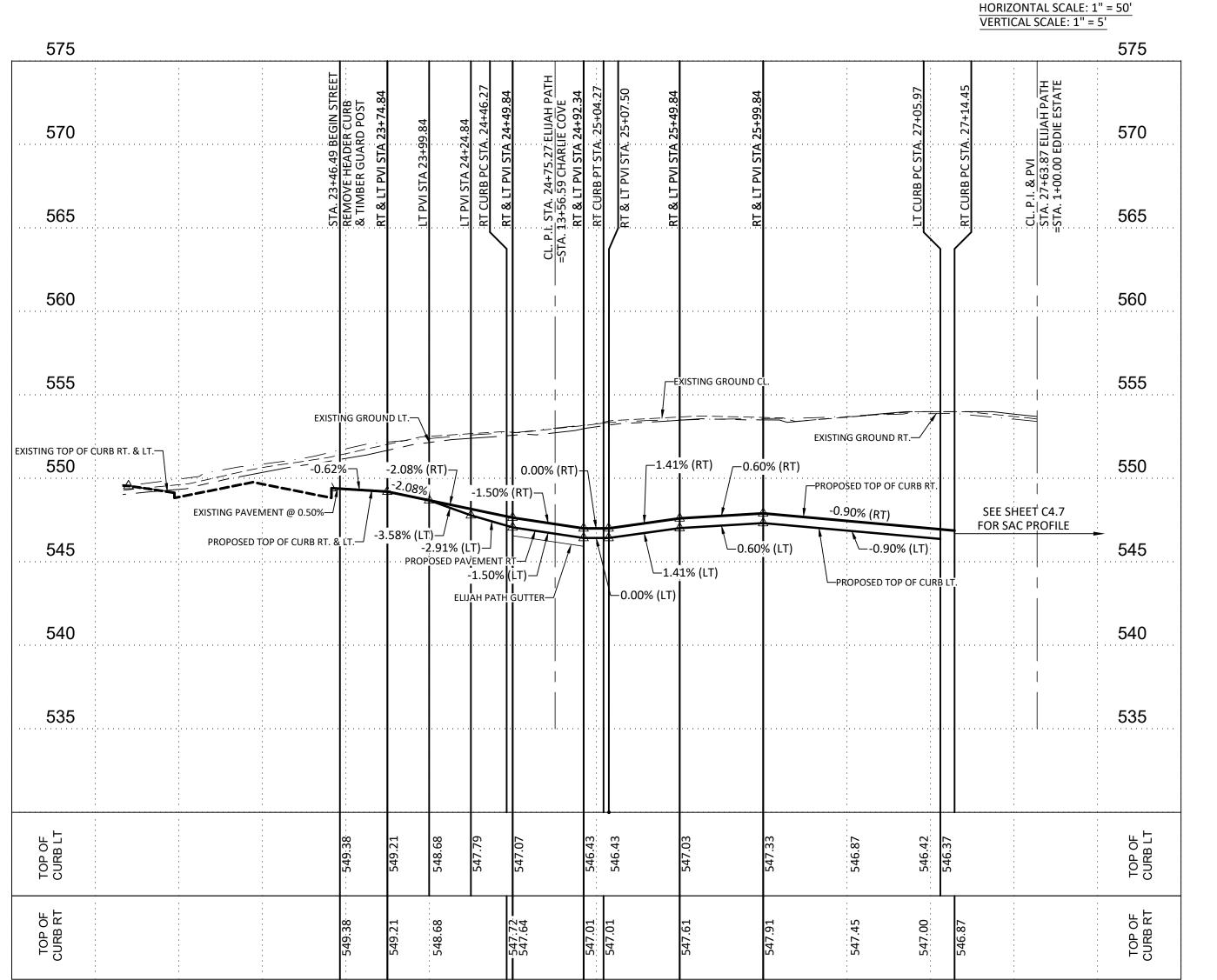
PAUL LANDA, JR 100182

PROFILE PATH

SHEET

C4.5

# **ELIJAH PATH** STA. 23+49.35 TO STA. 27+63.87

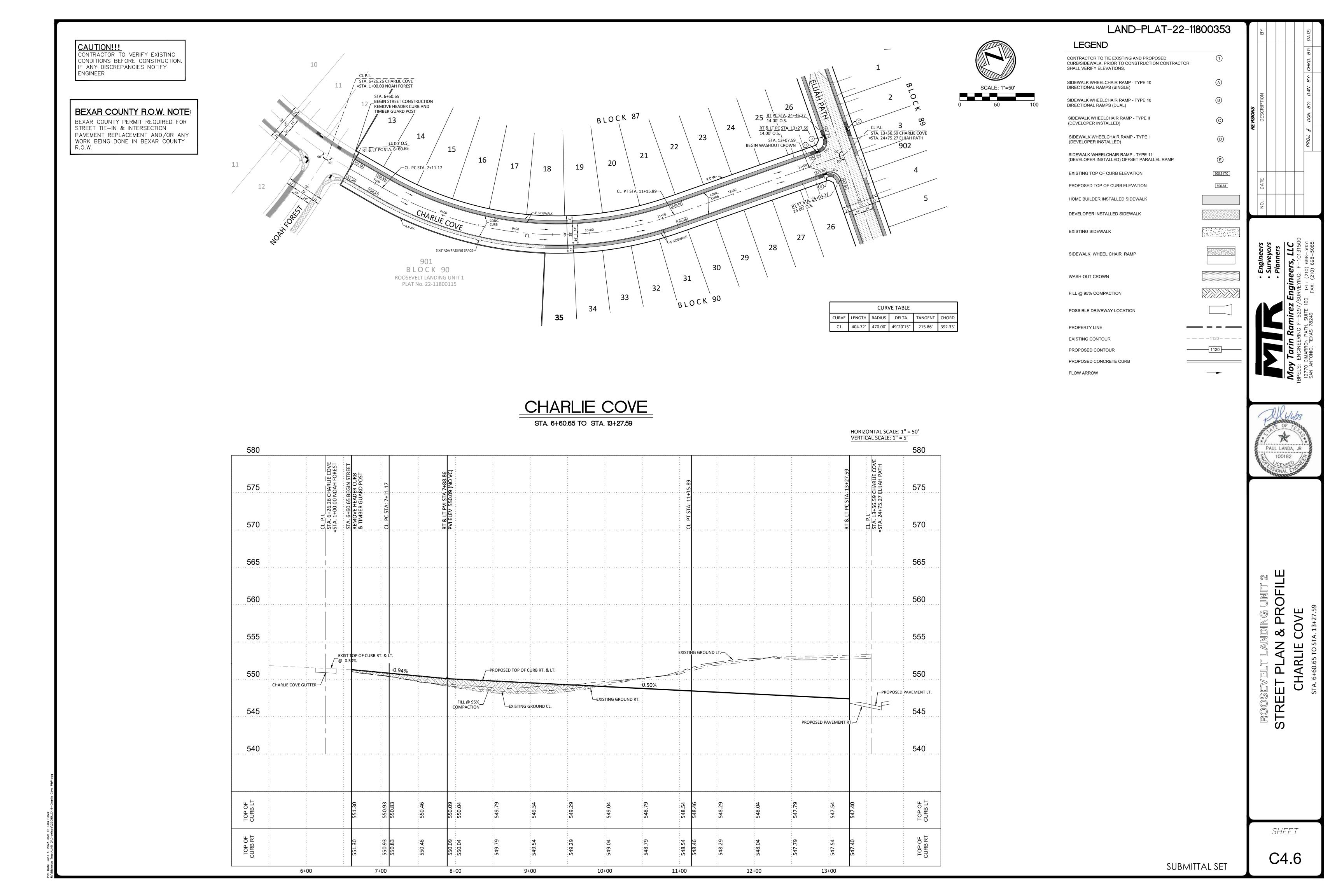


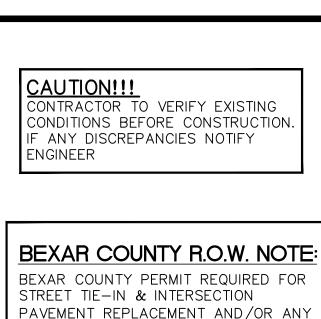
25+00

26+00

27+00

24+00

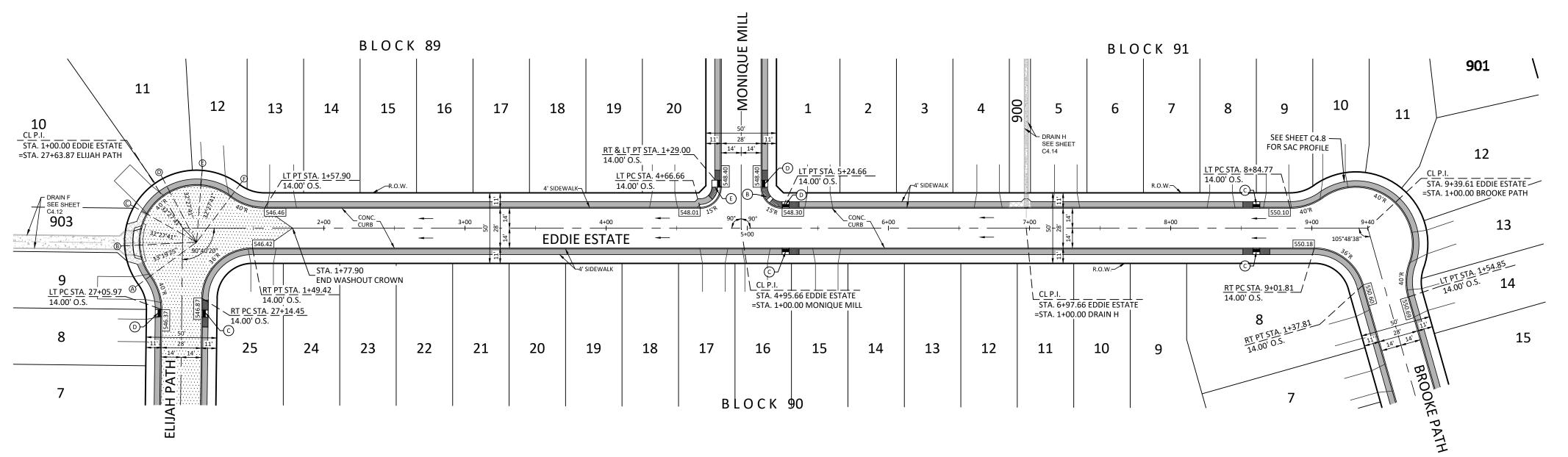


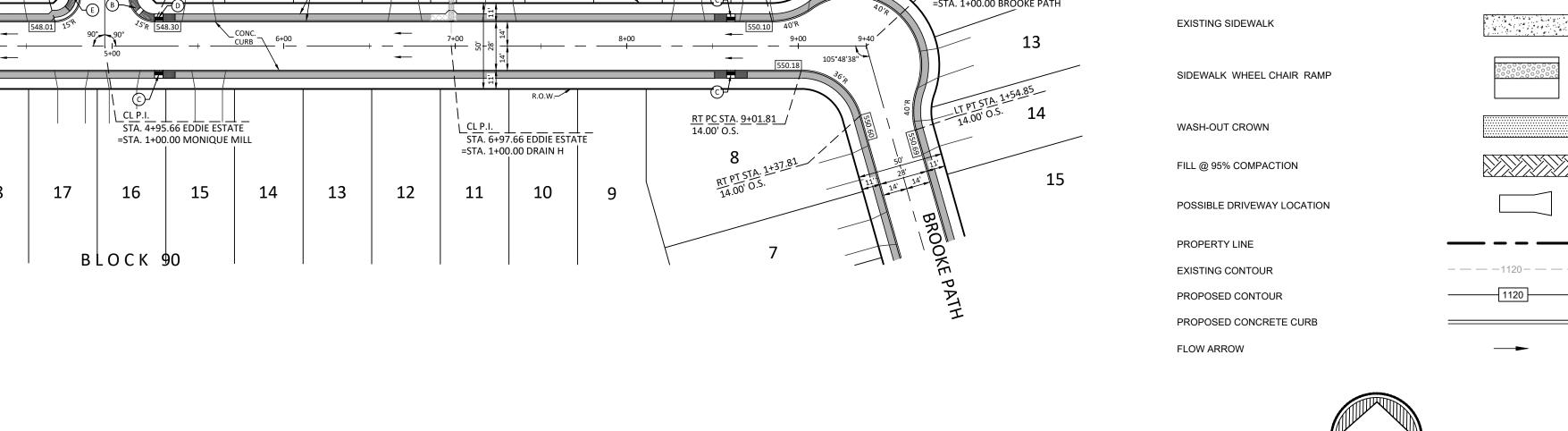


BEXAR COUNTY PERMIT REQUIRED FOR PAVEMENT REPLACEMENT AND/OR ANY WORK BEING DONE IN BEXAR COUNTY R.O.W.

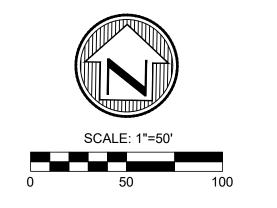
KNUCKLE SAC TABLE				
POINT	TOP OF CURB	GUTTER		
RT PT STA. 27+05.97	546.37	545.79		
Α	546.11	545.53		
В	545.88	545.30		
С	546.00	545.42		
D	546.11	545.53		
E	546.22	545.64		
F	546.34	545.64		
LT PT STA. 1+57.90	546.42	545.84		

LINE TABLE LINE LENGTH BEARING L1 14.00' N45°57'26"W





HORIZONTAL SCALE: 1" = 50' VERTICAL SCALE: 1" = 5'



LAND-PLAT-22-11800353

1

805.81TC

805.81

**LEGEND** 

SHALL VERIFY ELEVATIONS.

DIRECTIONAL RAMPS (SINGLE)

DIRECTIONAL RAMPS (DUAL)

(DEVELOPER INSTALLED)

(DEVELOPER INSTALLED)

SIDEWALK WHEELCHAIR RAMP - TYPE 10

SIDEWALK WHEELCHAIR RAMP - TYPE 10

SIDEWALK WHEELCHAIR RAMP - TYPE II

SIDEWALK WHEELCHAIR RAMP - TYPE I

SIDEWALK WHEELCHAIR RAMP - TYPE 11

EXISTING TOP OF CURB ELEVATION

PROPOSED TOP OF CURB ELEVATION

HOME BUILDER INSTALLED SIDEWALK

DEVELOPER INSTALLED SIDEWALK

(DEVELOPER INSTALLED) OFFSET PARALLEL RAMP

CONTRACTOR TO TIE EXISTING AND PROPOSED CURB/SIDEWALK. PRIOR TO CONSTRUCTION CONTRACTOR

PAUL LANDA, JR 100182

PROFILE EDDIE

SHEET

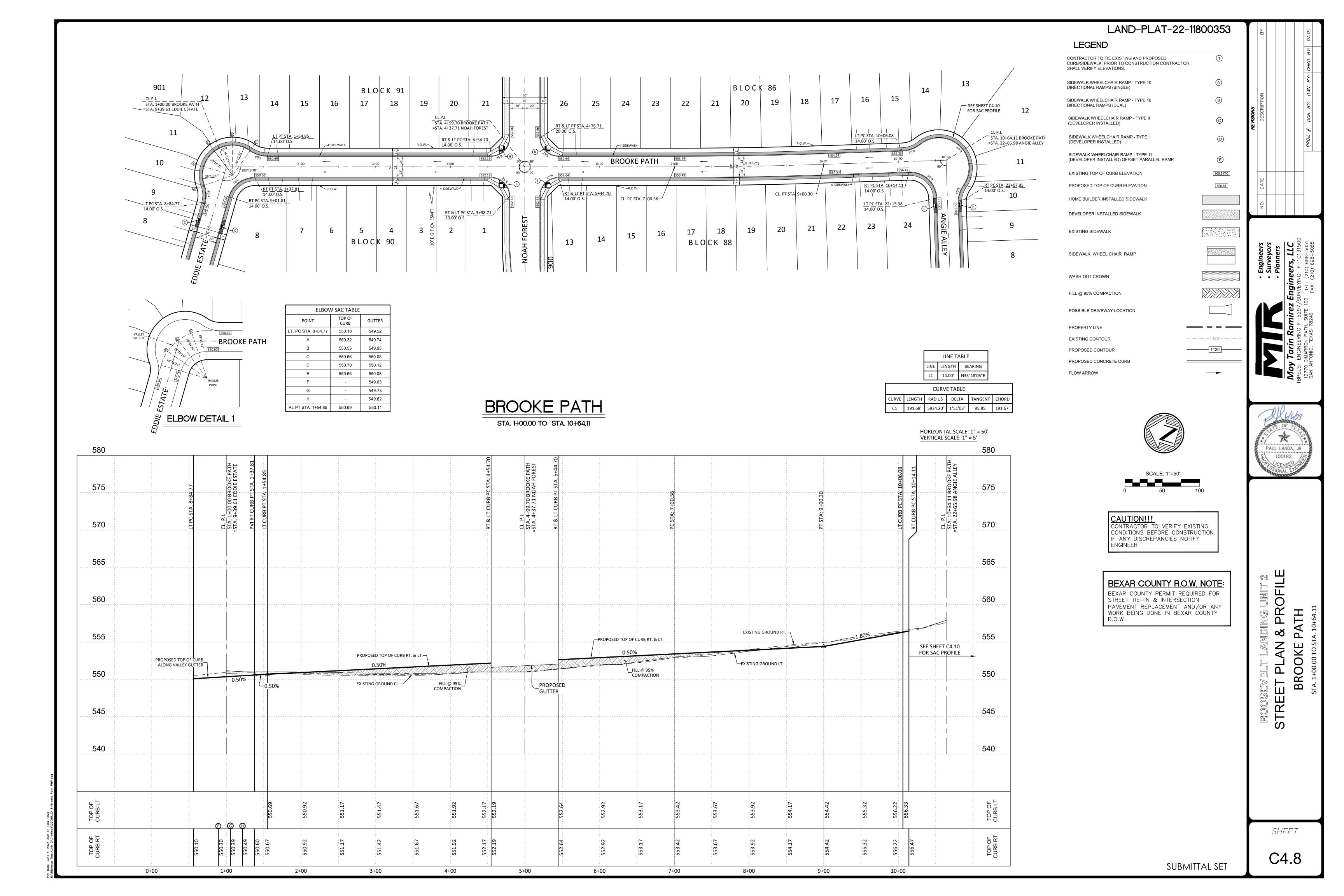
C4.7

SUBMITTAL SET

580 CL. P.I. STA. 1+00.00 EDDIE ESTATE =STA. 27+63.87 ELIJAH PATH CL. P.I. STA. 9+39.61 EDDIE ESTATE =STA. 1+00.00 BROOKE PATH CL. P.I. STA. 6+97.66 EDDIE ESTA =STA. 1+00.00 DRAIN H 575 575 570 570 565 560 560 555 EXISTING GROUND RT. EXISTING GROUND LT.— 550 550 EXISTING GROUND CL. SEE SHEET C4.8 FOR SAC PROFILE \_FILL @ 95% COMPACTION PROPOSED : 545 545 0.50% PROPOSED TOP OF CURB RT. & LT.— 540 0+00 1+00 2+00 3+00 4+00 6+00 7+00 8+00 9+00

EDDIE ESTATE

STA. 1+00.00 TO STA. 9+39.61



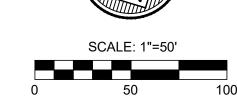
CAUTION!!!

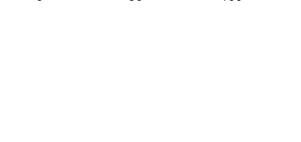
CONTRACTOR TO VERIFY EXISTING CONDITIONS BEFORE CONSTRUCTION. IF ANY DISCREPANCIES NOTIFY ENGINEER

## 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.







CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA	TANGENT	CHORD
C1	63.88'	400.00'	9°09'01"	32.01'	63.81'

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 (DEVELOPER INSTALLED)	©
SIDEWALK WHEELCHAIR RAMP - TYPE I (DEVELOPER INSTALLED)	(D)
SIDEWALK WHEELCHAIR RAMP - TYPE 11 (DEVELOPER INSTALLED) OFFSET PARALLEL RAMP	E
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	

LAND-PLAT-22-11800353

LEGEND

PROPERTY LINE

FLOW ARROW

EXISTING CONTOUR

PROPOSED CONTOUR

PROPOSED CONCRETE CURB

# NOAH FOREST

BLOCK 91

RT & LT PC STA. 4+54.70 LT PC STA. 5+97.48

21 20.00' O.S.

PL STA. 5+82.71

STREET DEDICATION

CLEDENAL P. C. STA. 5+82.71

BLOCK 86

25

─39.21 L.F. HEADER CURB

─39.48 L.F. HEADER CURB

\_ EXISTING SPEED LIMIT SIGN

STA. 6+22.31
END STREET CONSTRUCTION
SAWCUT, REMOVE & REPLACE ±90 L.F.

EXISTING ASPHALT AND TIE INTO PAVEMENT

BLOCK 90

RT & LT PC STA. 3+98.71

13 RT & LT PT STA. 5+44.70 14.00' O.S.

BLOCK 88

LT PT STA. 3+42.41

RT PT STA. 3+10.89 19.90' O.S.

901

BLOCK 90

ROOSEVELT LANDING UNIT 1

PLAT No. 22-11800115

BEGIN STREET CONSTRUCTION REMOVE HEADER CURB AND

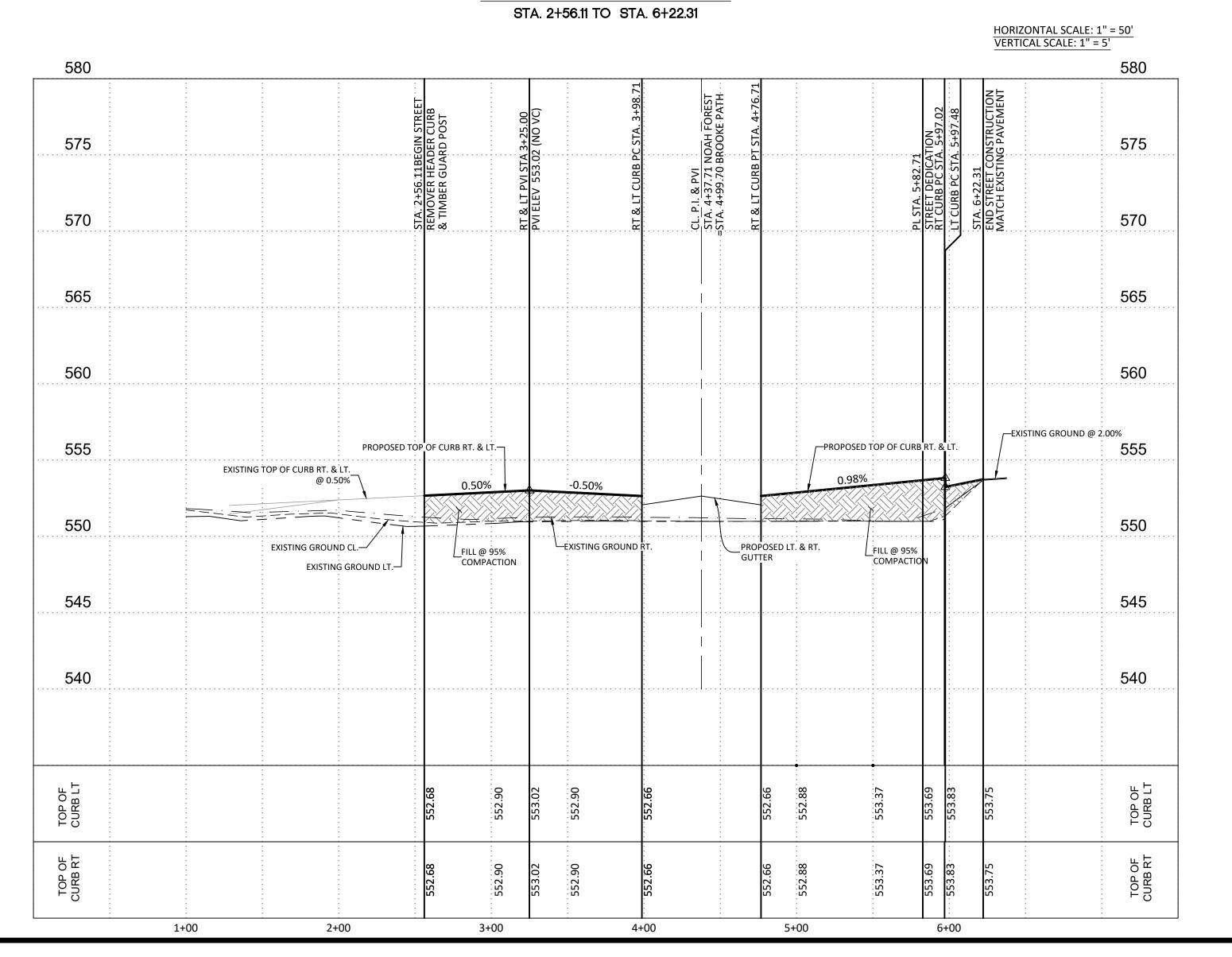
LT PT STA. 2+56.11 16.48 O.S.

RT PT STA. 2+56.11 18.34 O.S. RT

11

TIMBER GUARD POST **BEGIN TRANSITION** 

STA. 2+56.11

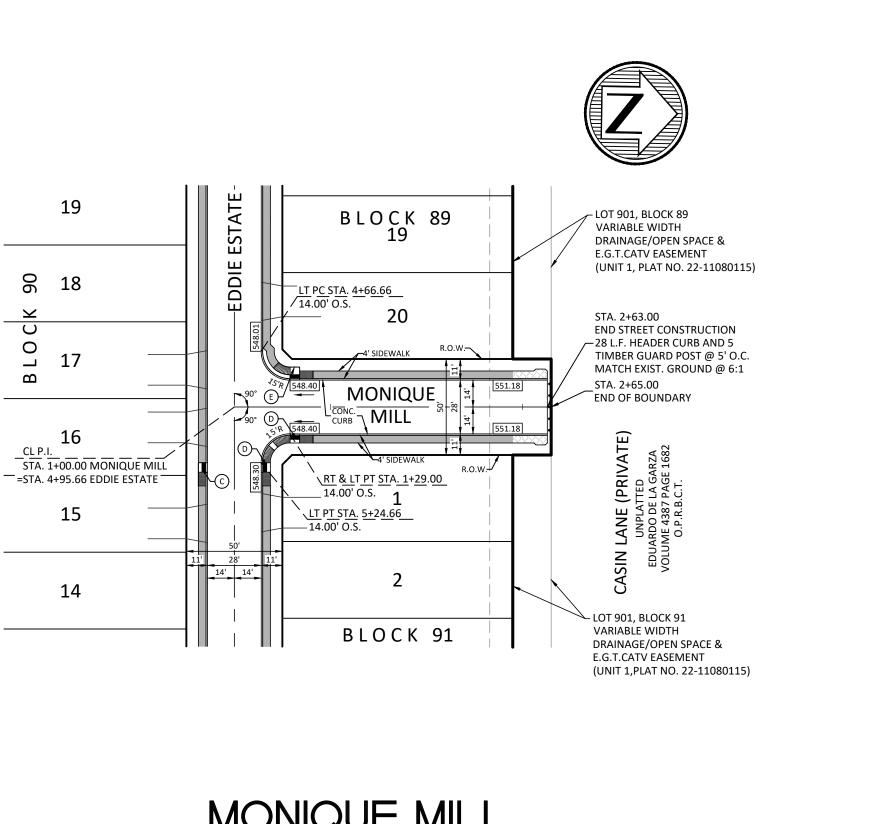


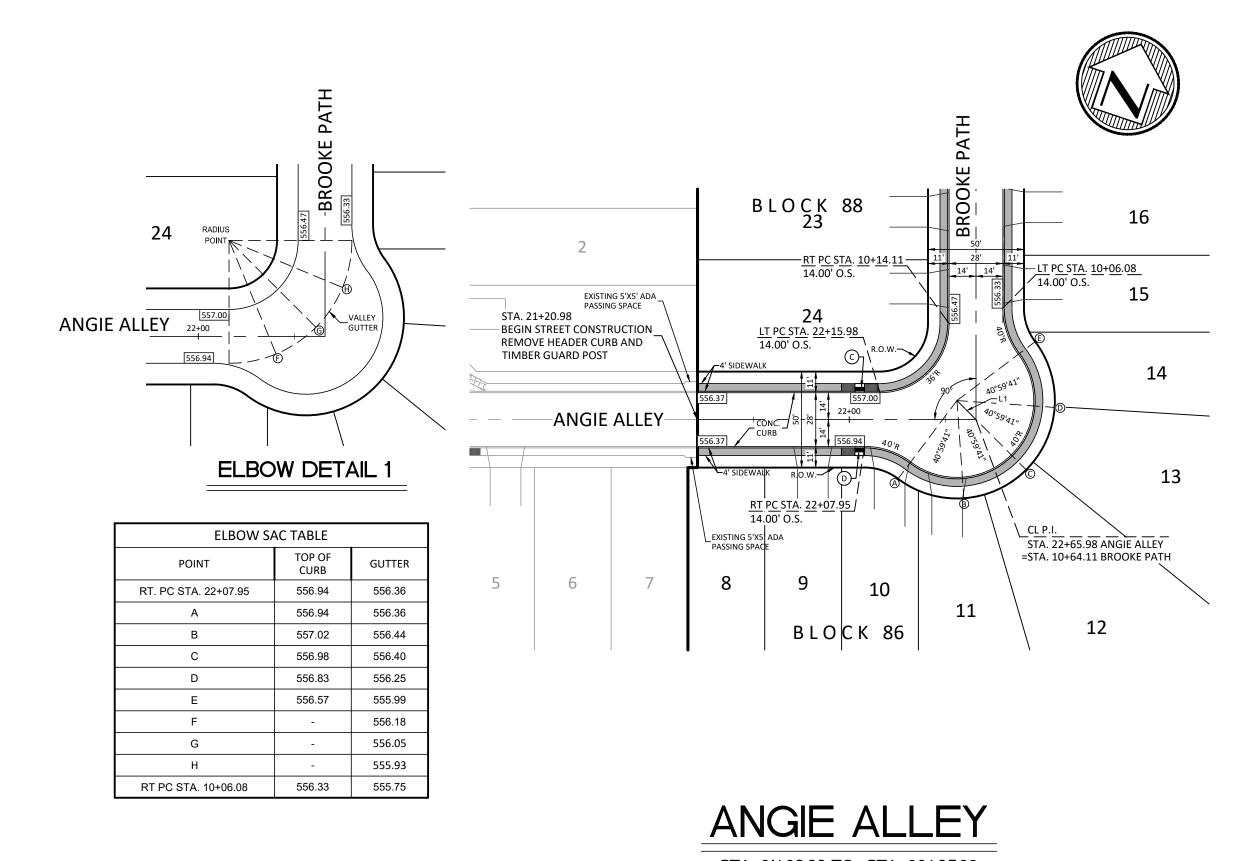
PAUL LANDA, JR 100182

SHEET

C4.9

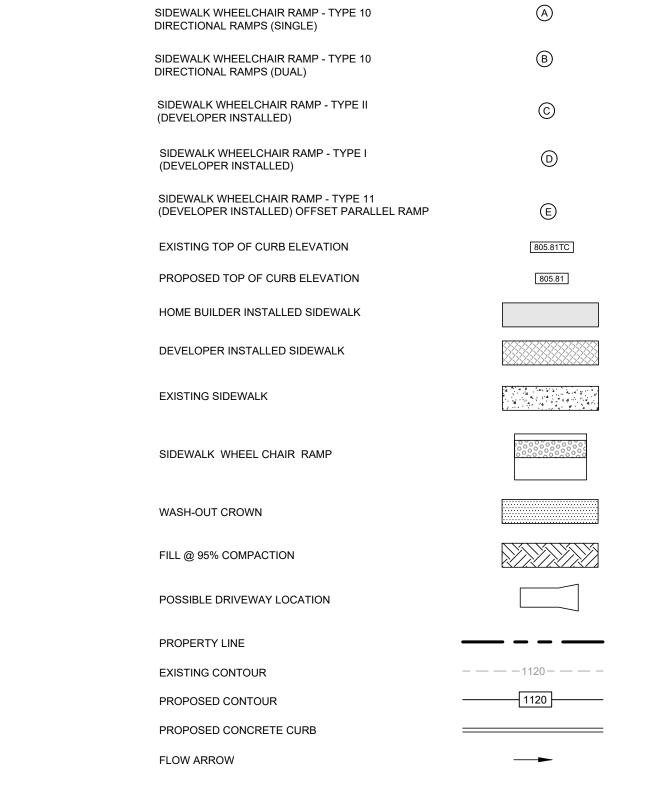
SUBMITTAL SET





20+00

21+00



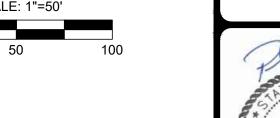
**LEGEND** 

SHALL VERIFY ELEVATIONS.

CONTRACTOR TO TIE EXISTING AND PROPOSED

CURB/SIDEWALK. PRIOR TO CONSTRUCTION CONTRACTOR

LAND-PLAT-22-11800353



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

STA. 21+20.98 TO STA. 22+65.98 LINE TABLE HORIZONTAL SCALE: 1" = 50' VERTICAL SCALE: 1" = 5' LINE LENGTH BEARING 14.00' \$64°02'37"E 580 580 CL. P.I. STA. 22+65.98 ANG =STA. 10+64.11 BRO 575 575 570 570 565 565 560 EXISTING GROUND RT.— PROPOSED TOP OF CURB ALONG VALLEY GUTTER EXISTING TOP OF CURB RT. & LT. 555 LEXISTING GROUND LT. EXISTING GROUND CL.-\_FILL @ 95% 550 550 545 545

22+00

STREET MONIQUE

PAUL LANDA, JR 100182

SHEET

C4.10

560

555

545

540

EXISTING GROUND RT.

PROPOSED GUTTER LT

EXISTING GROUND LT.

PROPOSED GUTTER RT—

SUBMITTAL SET

MONIQUE MILL STA. 1+00.00 TO STA. 2+63.00 HORIZONTAL SCALE: 1" = 50' VERTICAL SCALE: 1" = 5' 580 575 575 570 570 565 565

EXISTING GROUND CL.

2+00

PROPOSED TOP OF CURB RT. & LT.

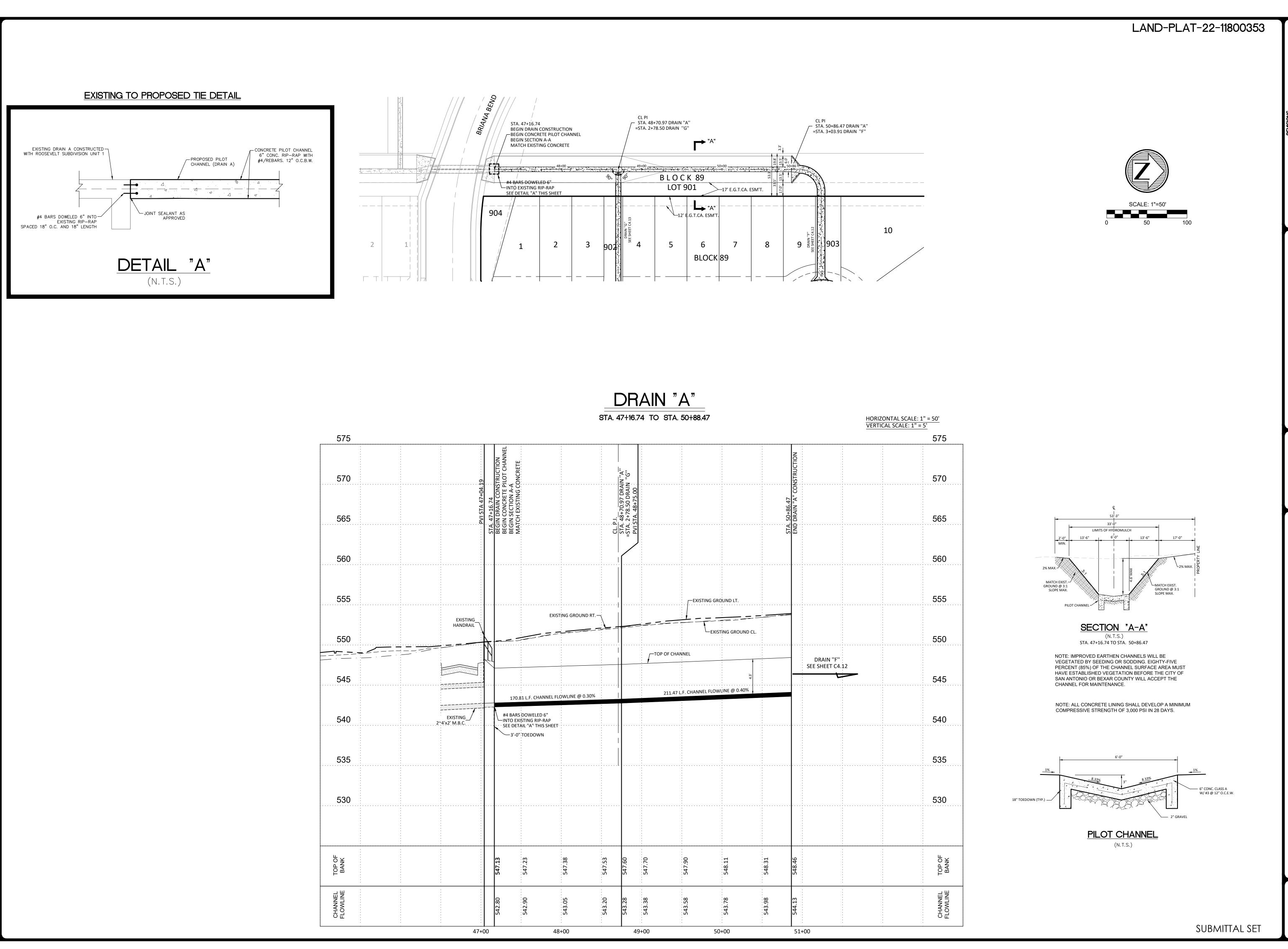
560

555

550

545

540



NO. DATE DESCRIPTION

PROJ. # DGN. BY: DWN. BY: CHKD. BY: DATE

• Surveyors
• Planners
rez Engineers, LLC
297/SURVEYING: F-10131500
TE 100 TEL: (210) 698-5051

Moy Tarin Ramirez E
TBPELS: ENGINEERING F-5297/S
12770 CIMARRON PATH, SUITE 100

PAUL LANDA, JR
3 100182

SOSEVELT LANDING UNIT 2

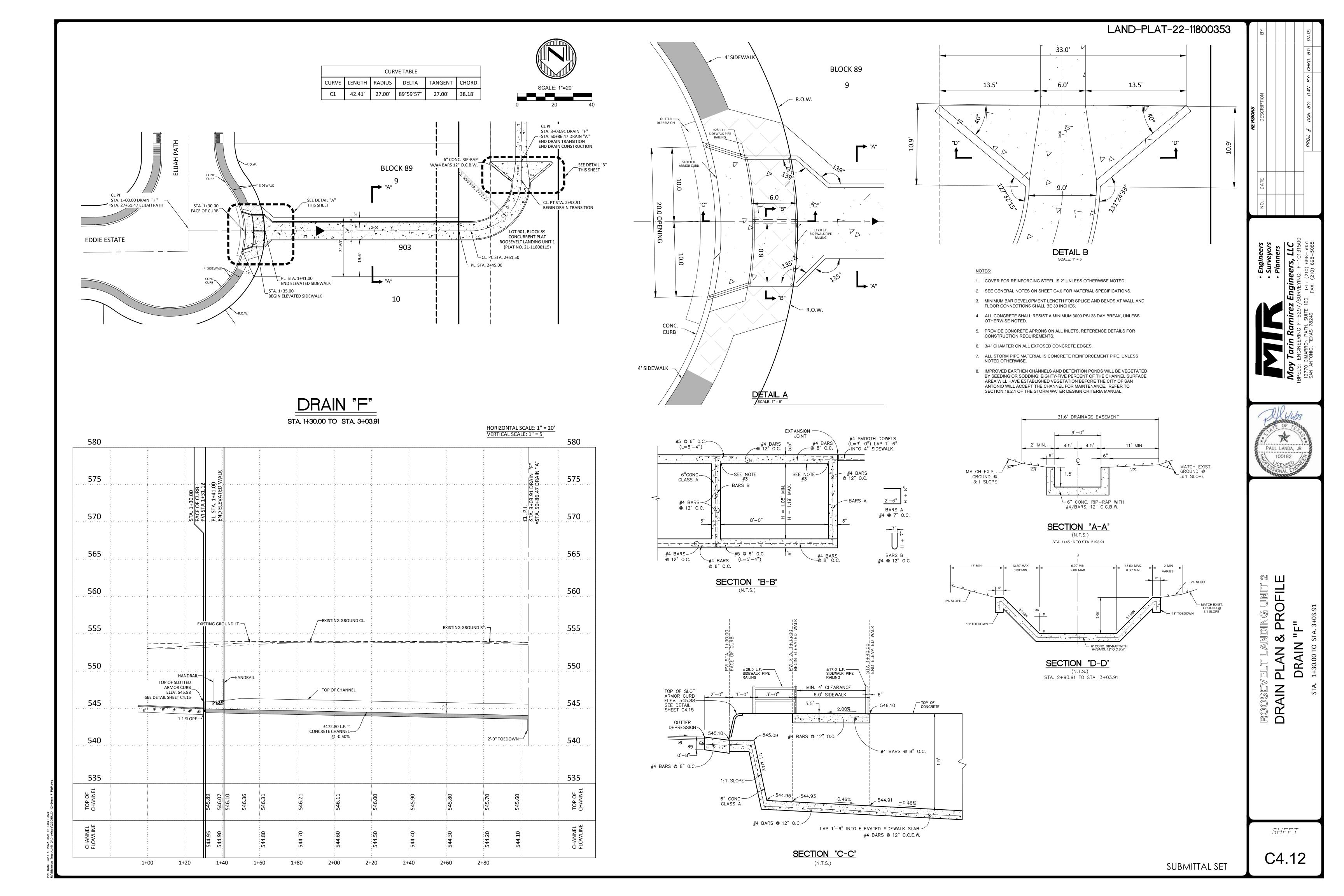
RAIN PLAN & PROFILE

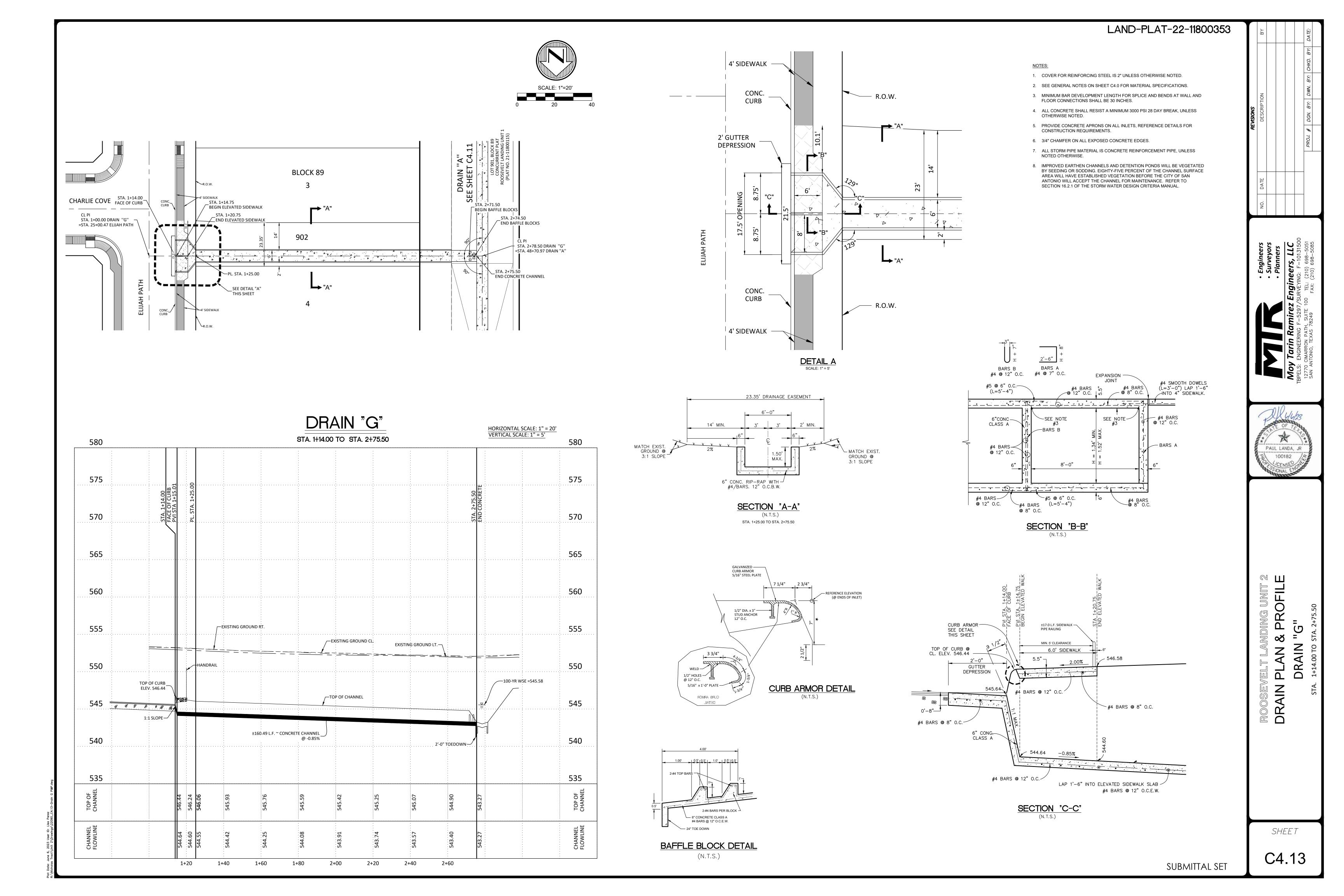
DRAIN "A"

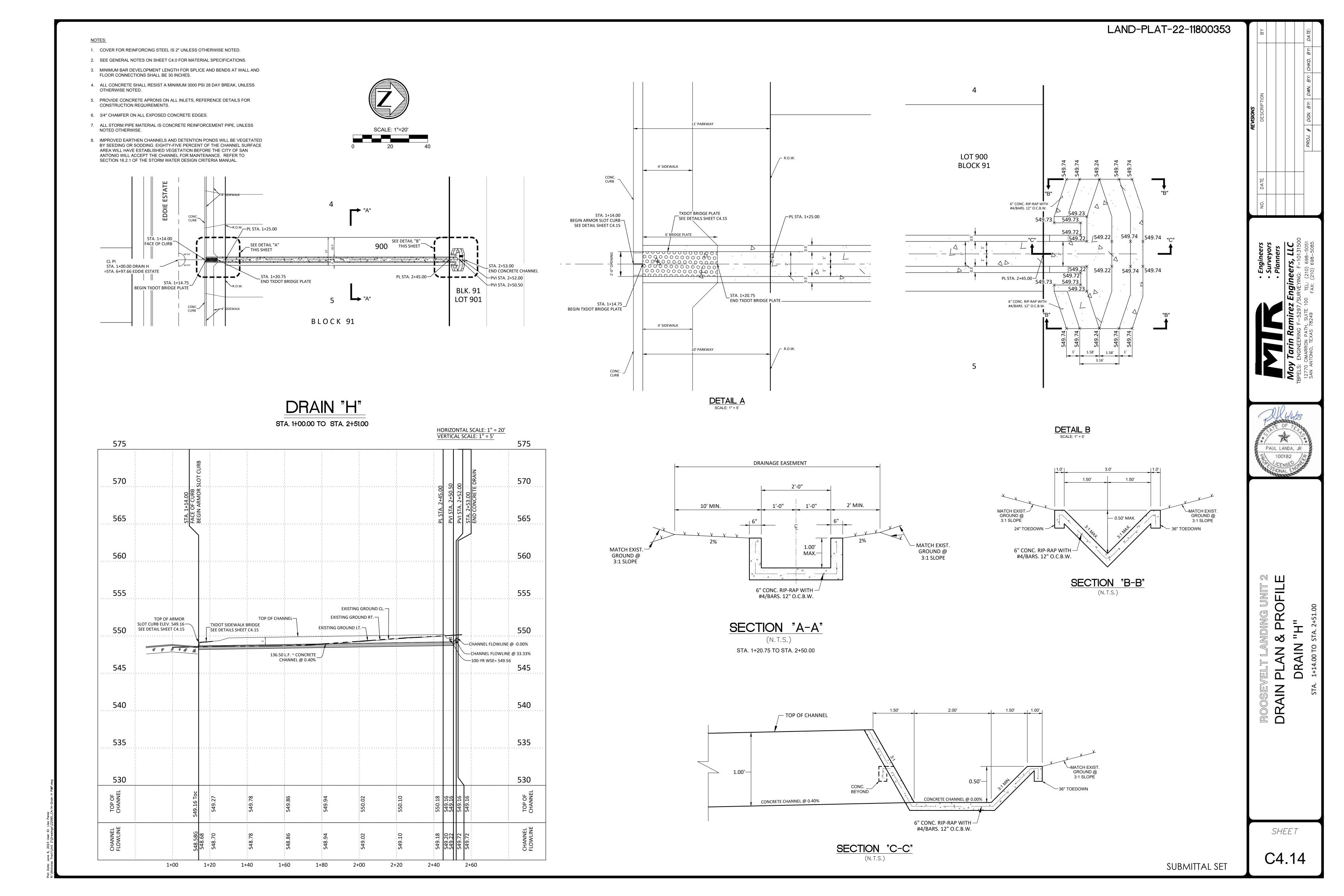
THE 20 TO STA 50+8847

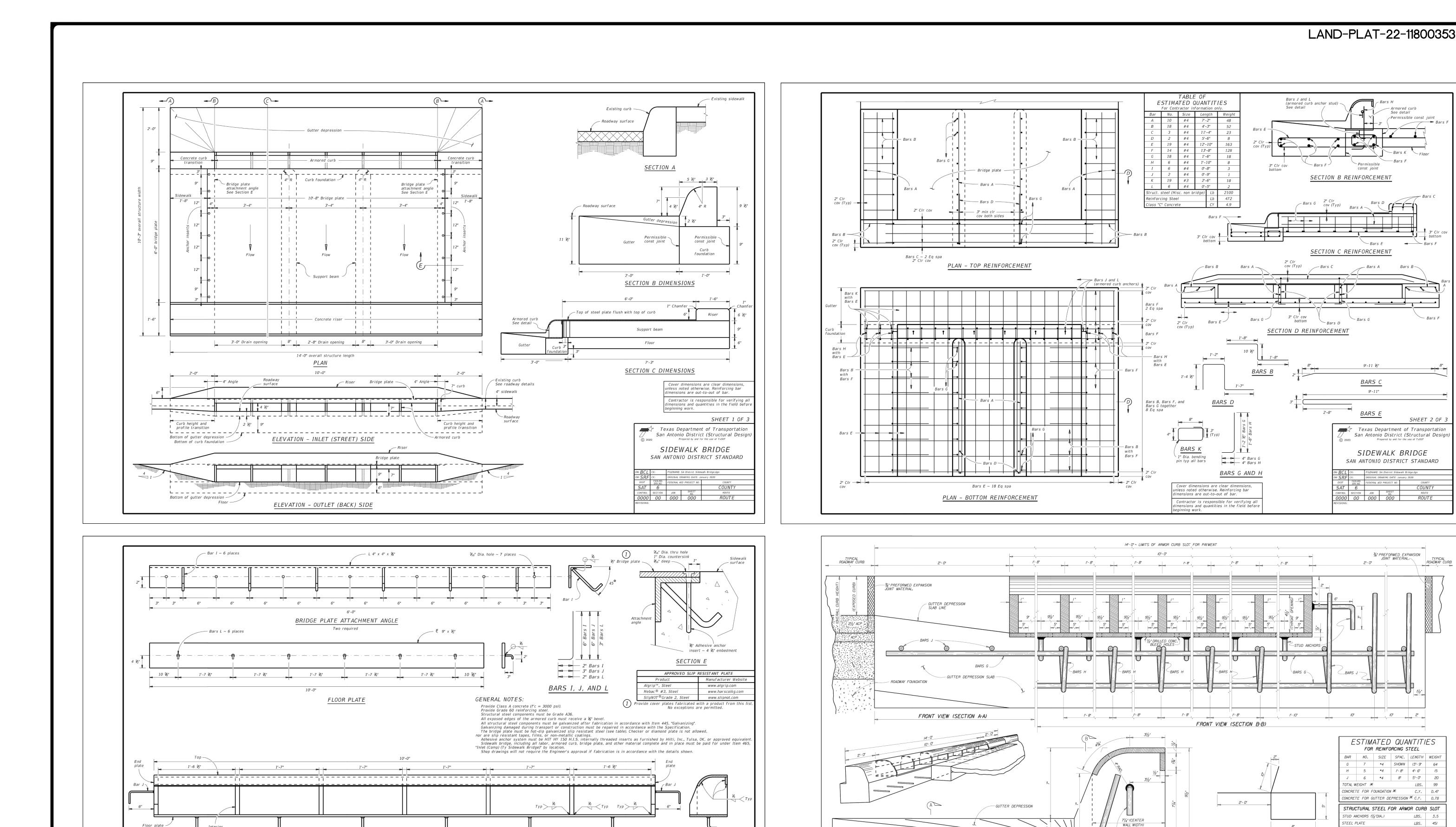
SHEET

C4.11









Cover dimensions are clear dimensions, unless noted otherwise. Reinforcing bar dimensions are out-to-out of bar.

Contractor is responsible for verifying all dimensions and quantities in the field before beginning work.

Texas Department of Transportation

SIDEWALK BRIDGE

 CROL
 SECTION
 JOB
 SHEET
 ROUTE

 100
 00
 000
 000
 ROUTE

SAN ANTONIO DISTRICT STANDARD

San Antonio District (Structural Design)

Prepared by and for the use of TXDOT

SHEET 3 OF 3

ARMORED CURB ASSEMBLY INLET ELEVATION

 $V_{16}$ " Dia. thru hole 1" Dia. countersink ¾<sub>16</sub>" deep 14 places ~ See detail

∕ ½" Plate

TOP (SECTION)

10'-0" length

1" Plate

INTERIOR PLATE

Five required

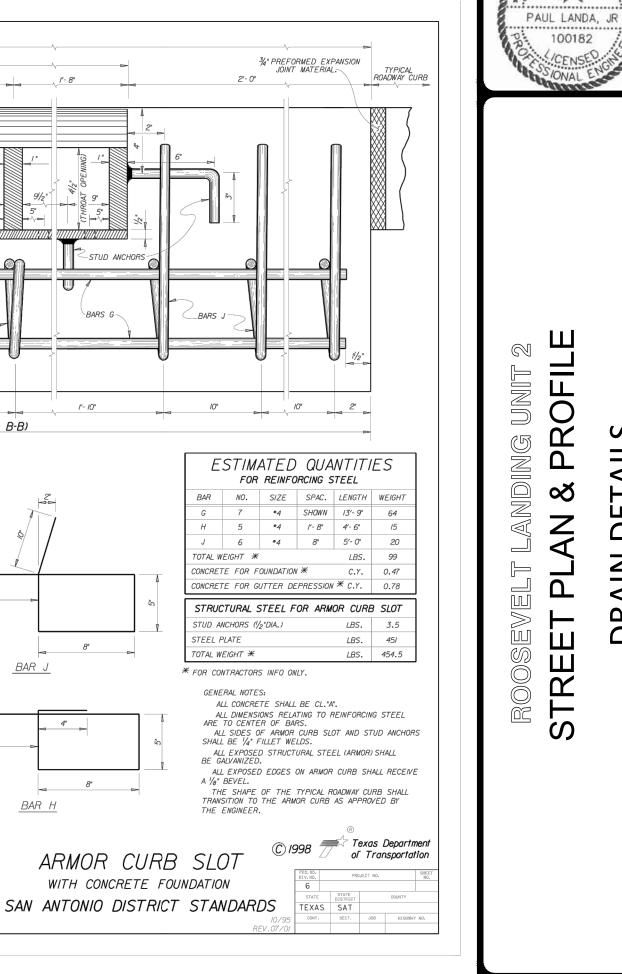
END PLATE

10'-8" overall

½" Plate

1 BRIDGE PLATE

Hole location dimensions to center of hole



BAR J

BAR H

ARMOR CURB SLOT

WITH CONCRETE FOUNDATION

A 1/8" BEVEL.

SUBMITTAL SET

2'- 0"

BARS G

BARS H or J

CONSTRUCTION JOINT-

SIDE VIEW SECTION

2'- 0"

/Permissible const join

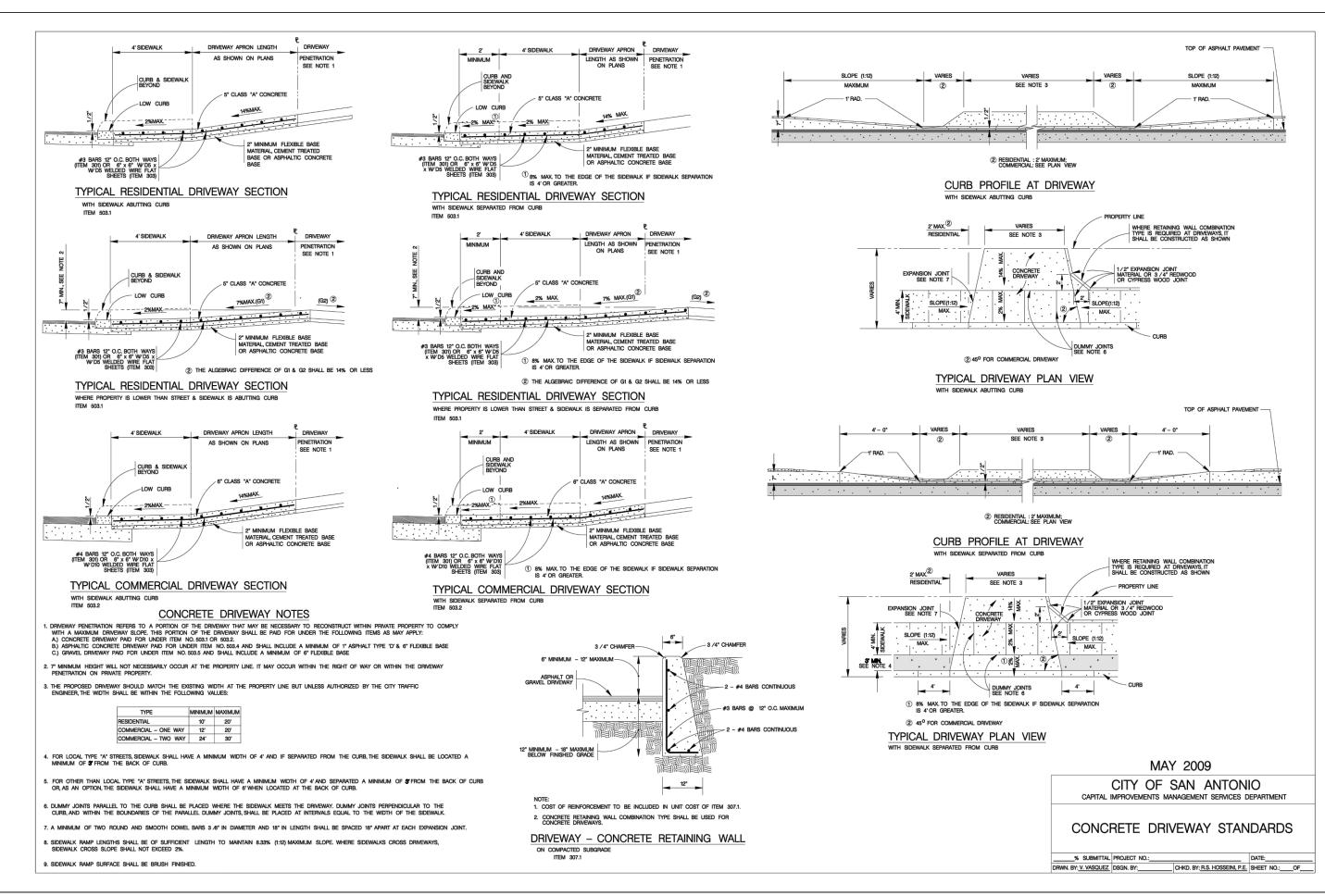
Bars F

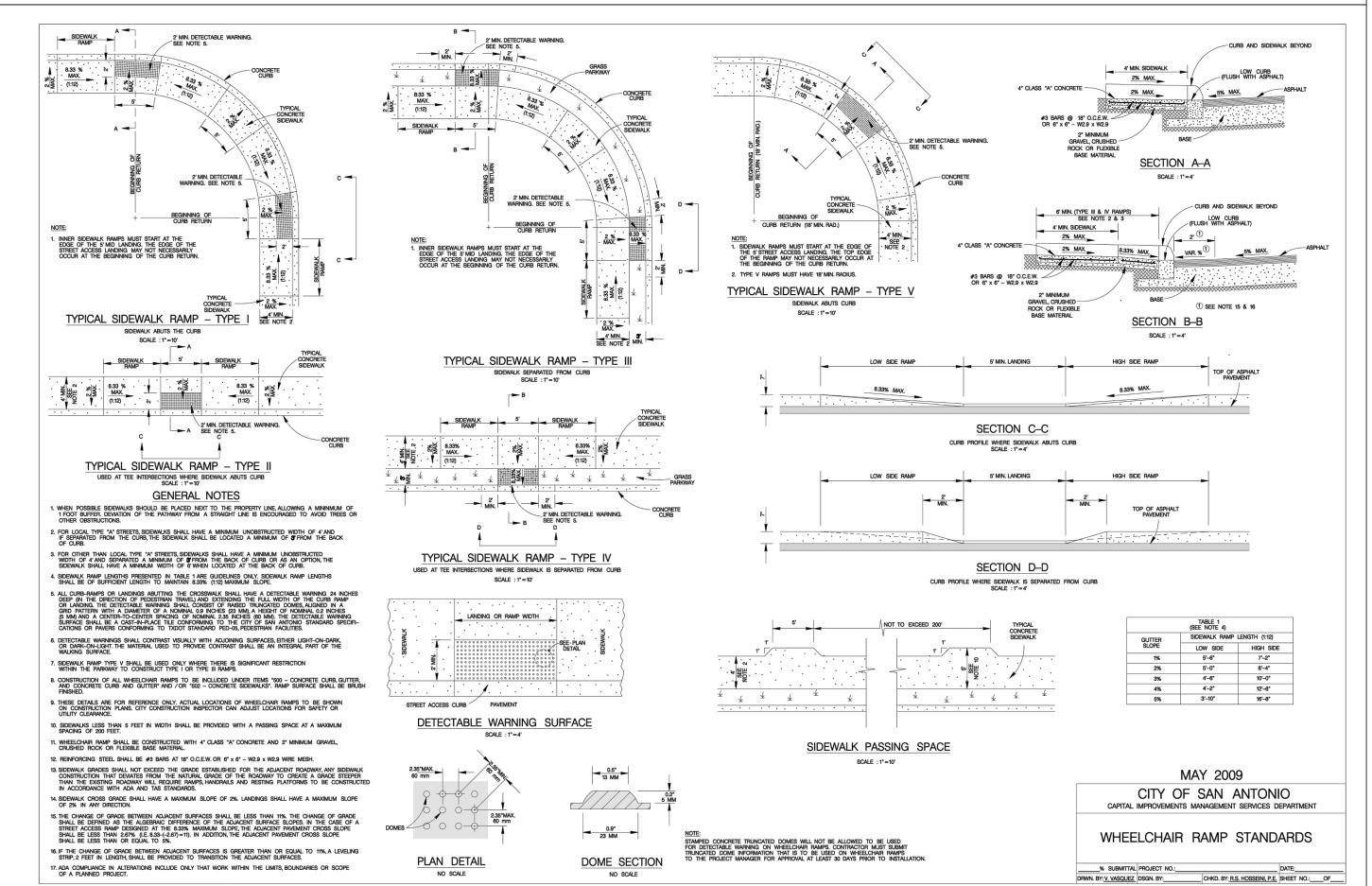
SHEET 2 OF .

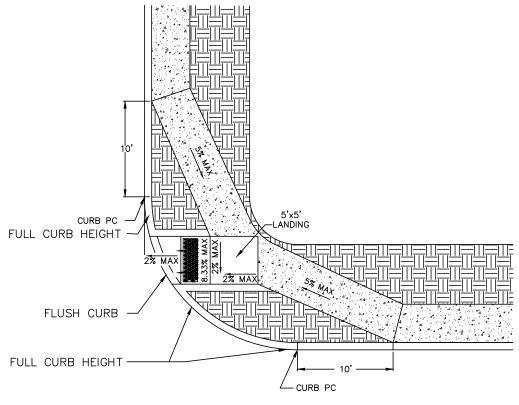
SHEET

AN

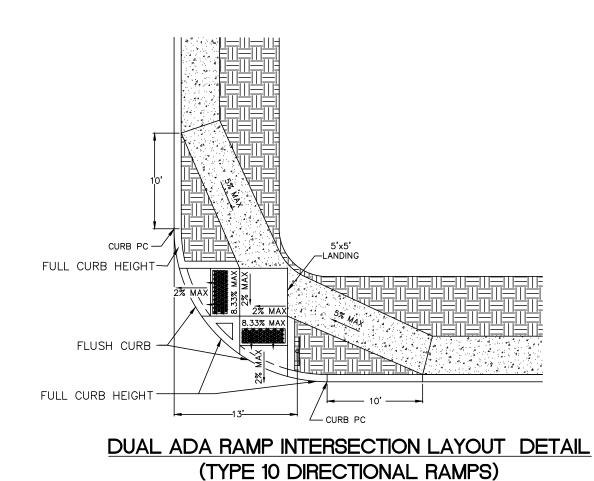
DR,

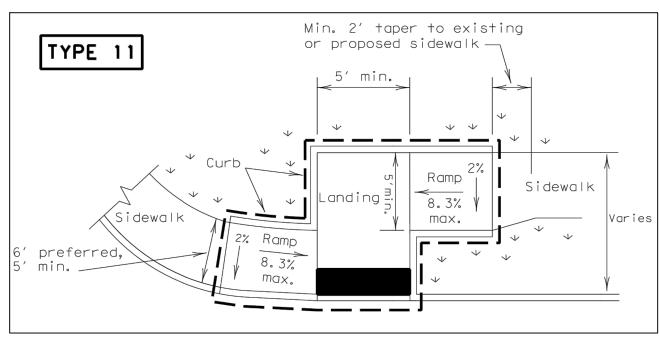




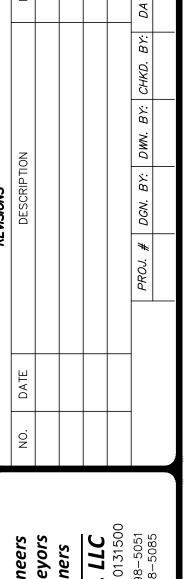


SINGLE ADA RAMP INTERSECTION LAYOUT DETAIL (TYPE 10 DIRECTIONAL RAMPS)

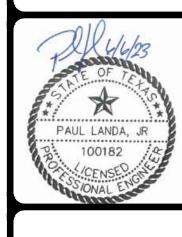




OFFSET PARALLEL CURB RAMP (TYPE 11)



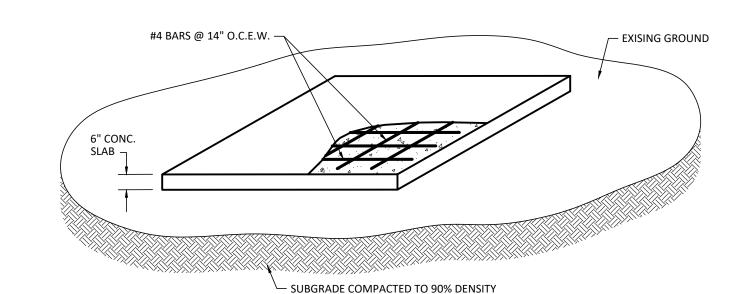




ROOSEVELT LANDING UNIT 2
STREET PLAN & PROFILE
STANDARD DETAILS

SHEET

BEXAR COUNTY MAINTENANCE SIGNAGE



18''x 24''

White Prismatic Background Green Overlay Film Hwy C lettering

NOTES:

- THE CONTRACTOR WILL CONSTRUCT CONCRETE SLABS FOR "TEMPORARY MAIL BOX COLLECTION PAD" FOR THE UNITED STATES POSTAL SERVICE AT THE LOCATIONS AND SIZES SPECIFIED BY THE CITY ENGINEER DURING CONSTRUCTION.
- 2) THE CONSTRUCTION OF SLABS SHALL CONFORM TO ITEM NO. 502 "CONCRETE SIDEWALKS AND DRIVEWAYS"
- PAYMENT WILL BE MADE UNDER ITEM NO. 502-2 DRIVEWAYS -PER SQUARE YARD.
- UNIT PRICE WILL INCLUDE REMOVAL OF "TEMPORARY MAIL BOX COLLECTION PAD" SLABS AT THE END OF THE PROJECT.
  NO SEPARATE PAY ITEM.

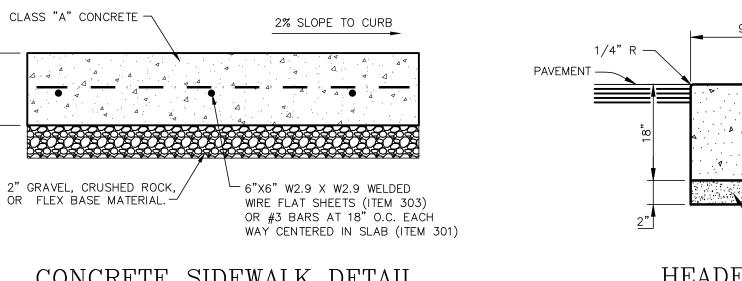
TEMPORARY MAIL BOX COLLECTION PAD

# CONCRETE DRIVEWAY NOTES:

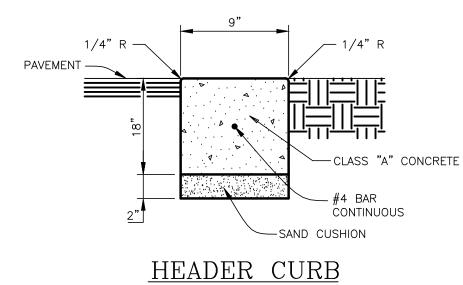
1. THE PROPOSED DRIVEWAY SHOULD MATCH THE EXISTING WIDTH AT THE PROPERTY LINE BUT UNLESS AUTHORIZED BY THE CITY TRAFFIC ENGINEER, THE WIDTH SHALL BE WITHIN THE FOLLOWING VALUES:

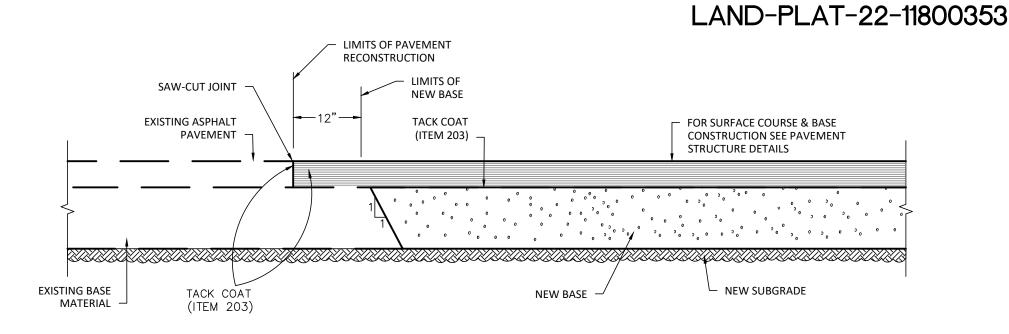
TYPE	MINIMUM	MAXIMUM
RESIDENTIAL	10'	20'
COMMERCIAL - ONE WAY	12'	20'
COMMERCIAL - TWO WAY	24'	30'

- 2. FOR LOCAL TYPE "A" STREETS, SIDEWALK SHALL HAVE A MINIMUM WIDTH OF 4' AND IF SEPARATED FROM THE CURB, THE SIDEWALK SHALL BE LOCATED A MINIMUM OF 3' FROM THE BACK OF CURB.
- 3. FOR OTHER THAN LOCAL TYPE "A" STREETS, THE SIDEWALK SHALL HAVE A MINIMUM WIDTH 4' AND SEPARATED A MINIMUM OF 3' FROM THE BACK OF CURB OR, AS AN OPTION, THE SIDEWALK SHALL HAVE A MINIMUM WIDTH OF 6' WHEN LOCATED AT THE BACK OF CURB.
- 4. DUMMY JOINTS PARALLEL TO THE CURB SHALL BE PLACED WHERE THE SIDEWALK MEETS THE DRIVEWAY. DUMMY JOINTS PERPENDICULAR TO THE CURB, AND WITHIN THE BOUNDARIES OF THE PARALLEL DUMMY JOINTS, SHALL BE PLACED AT INTERVALS EQUAL TO THE WIDTH OF THE SIDEWALK.
- 5. A MINIMUM OF TWO ROUND AND SMOOTH DOWEL BARS 3/8" IN DIAMETER AND 18" IN LENGTH SHALL BE SPACED 18" APART AT EACH EXPANSION JOINT.
- 6. SIDEWALK RAMP LENGTHS SHALL BE OF SUFFICIENT LENGTH TO MAINTAIN 8.33% (1:12) MAXIMUM SLOPE. WHERE SIDEWALKS CROSS DRIVEWAYS, SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%..
- 7. SIDEWALK RAMP SURFACE SHALL BE BRUSH FINISHED.

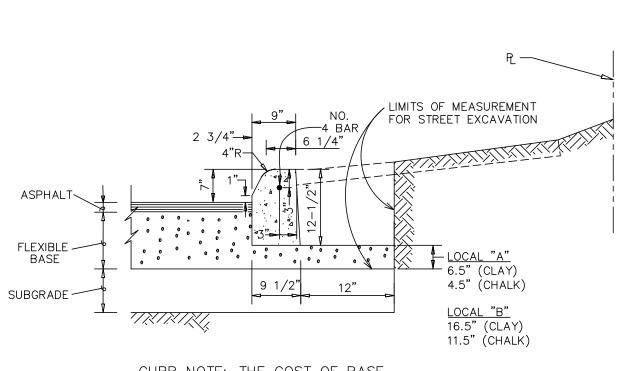


CONCRETE SIDEWALK DETAIL



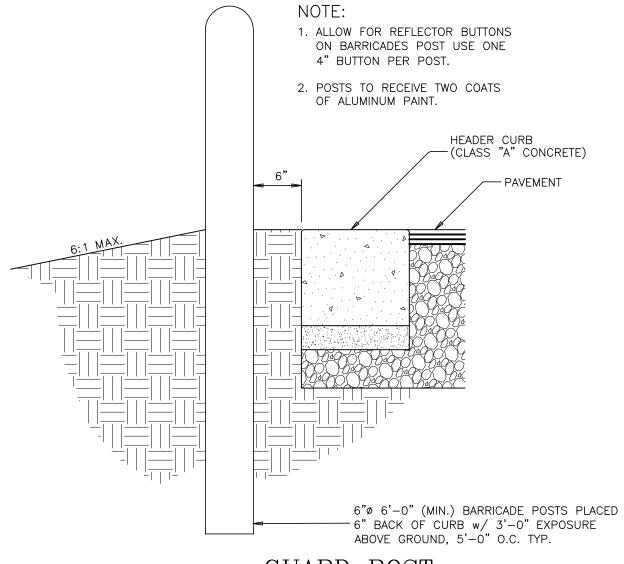


# PAVEMENT JUNCTION DETAILS N.T.S.

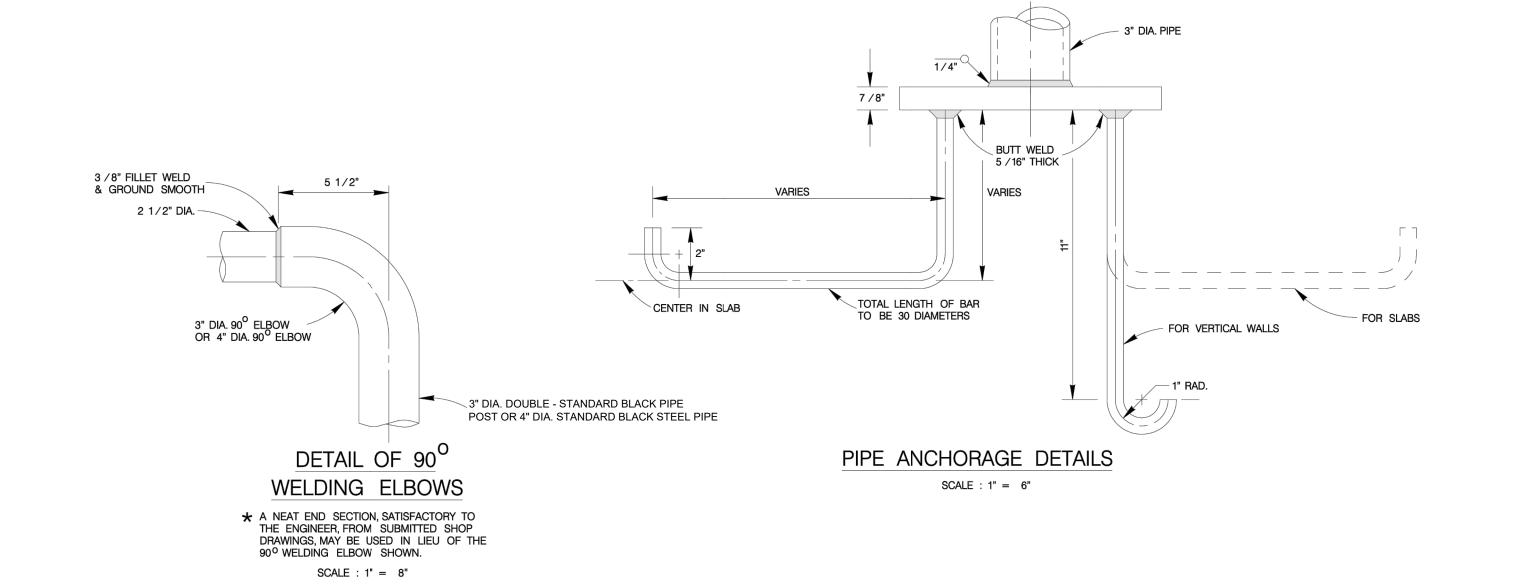


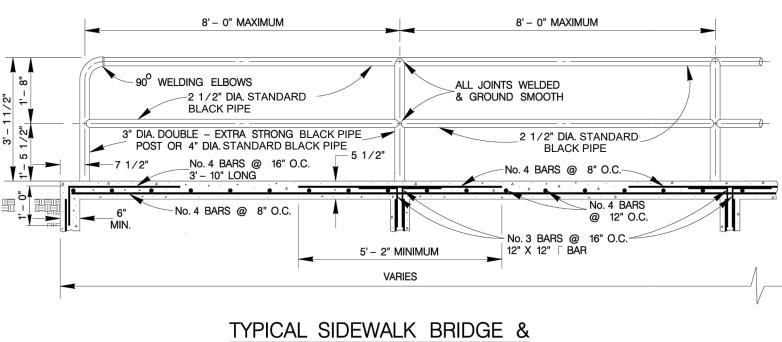
CURB NOTE: THE COST OF BASE MATERIAL UNDER & BEHIND THE CURB SHALL BE INCLUDED IN THE COST OF THE CURB.

MACHINE LAID CURB N.T.S. ITEM 500

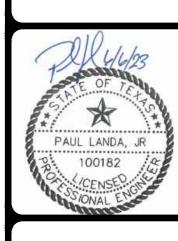


GUARD POST





SIDEWALK PIPE RAILING SECTION SCALE: 1" = 4'



C4.17

### DETERMINED BY ENGINEER TYPICAL STREET CROSS-SECTION (28' PAVEMENT) AFTER INSPECTION OF SUBGRADE

DURING CONSTRUCTION.

1. APPLICABLE SPECIFICATIONS FROM "CITY OF SAN

205 - HOT MIX ASPHALT CONCRETE PAVEMENT

INFORMATION A. "SUBSURFACE EXPLORATION &

ANTONIO STANDARD SPECIFICATIONS FOR

2. REFER TO INTEC GEOTECHNICAL REPORTS FOR

PAVEMENT ANALYSIS FOR PROPOSED NEW

STREETS - 171 ACRE NICHOLAS TRACT, SAN

ANTONIO, TEXAS, DATED SEPTEMBER 10, 2021.

ADDITIONAL PAVEMENT CONSTRUCTION

3. CONTRACTOR TO COORDINATE ALL MATERIAL

CONSTRUCTION"- JUNE 2008

200 - FLEXIBLE BASE 202 - PRIME COAT

203 - TACK COAT

**NOTES:** 

TESTING

ELIJAH PATH ~ STA. 23+49.35 TO STA. 27+63.87 CHARLIE COVE ~ STA. 6+60.65 TO STA. 13+27.59 EDDIE ESTATE ~ STA. 1+00.00 TO STA. 9+39.61 BROOKE PATH ~ STA. 1+00.00 TO STA. 4+54.70 STA. 5+44.70 TO STA. 10+64.11 MONIQUE MILL ~ STA. 1+00.00 TO STA. 2+63.00 ANGIE ALLEY ~ STA. 21+20.98 TO STA. 22+65.98

# \* PAVEMENT SECTIONS

PAVEMENT MATERIAL	CLAY SU LOCAL A	UBGRADE (CBR 3. Local B	<u>0)</u> <u>COLLECTOR</u>
TYPE D ASPHALTIC CONCRETE	2.0 IN.	3.0 IN.	3.0 IN.
FLEXIBLE BASE (TxDOT ITEM	8.5 IN.	17.5 IN.	19.5 IN.
247 TYPE A GRADE 2) LIME STABILIZED SUBGRADE (29.0 LBS/SY) LIME STABILIZED SUBGRADE (38.0 LBS/SY) (6% BY WEIGHT)	6.0 IN. 	 8.0 IN.	 8.0 IN.

# 5' CONC. WALK 6' CONC. WALK 4' CONC. WALK 5' CONC. WALK 6' CONC. WALK 6' CONC. WALK 6' CONC. WALK DEVELOPER INSTALLED \_\_\_\_ SIDEWALK LOCAL "B"

PAVEMENT INDEX MAP

### 4:1 E.G.T.TV.E E.G.T.TV.E | A:^ ASPH. PAVEMENT PARKWAY MIN. SLOPE 1/4"/FT. MIN. SLOPE 1/4"/FT. MAX. SLOPE 1"/FT. 3" H.M.A.C. TYPE "D"/ MAX. SLOPE 1"/FT. -6' CONC SIDEWALK (SEE BELOW) \*8" LIME STABILIZED 6' CONC SIDEWALK SUBGRADE (38.0 LBS/SY) PRIME COAT -17.5" COMPACTED FLEXIBLE BASE (SEE BELOW) \* (6% BY WEIGHT) 0.2 GAL./S.Y. ITEM 202 95% COMPACTED DENSITY TACK COAT LOCAL "B" 0.1 GAL./S.Y. ITEM 203 \* PAVEMENT SECTION TO BE

TYPICAL STREET CROSS-SECTION (40' PAVEMENT)

NOAH FOREST ~ STA. 2+56.11 TO STA. 6+22.31

FOR CONSTRUCTION VERIFICATION THE FOLLOWING SHALL BE CONDUCTED IN THE FIELD:

- AFTER INITIAL MIXING THE SOIL-LIME MIXTURE SHALL MELLOW FOR A PERIOD OF TWO TO THREE (2-3) DAYS. MAINTAIN MOISTURE DURING MELLOWING;
- AFTER MELLOWING AND FINAL MIXING, THE PULVERIZATION SHALL BE CHECKED USING THE FOLLOWING CRITERIA (REMOVE NON-SLAKING AGGREGATES RETAINED ON THE 3/4 INCH SIEVE FROM THE SAMPLE):
  - •• MINIMUM PASSING 13/4 SIEVE •• MINIMUM PASSING 3/4 SIEVE
- •• MINIMUM PASSING NO. 4 SIEVE
- SAMPLE SOIL-LIME MIXTURE FOR DETERMINATION OF MAXIMUM DRY DENSITY (MDD). IN THE LABORATORY, MOLD SPECIMENS TO 95% OF MDD AT OPTIMUM MOISTURE CONTENT AND VERIFY UCS TO BE AT LEAST 160 PSI IN ACCORDANCE WITH PROCEDURE OUTLINED ABOVE FOR MIXTURE DESIGN.
- COMPACT AND CHECK FIELD DENSITY (MINIMUM OF 95% OF MDD REQUIRED); • CURE FOR AN ADDITIONAL 2 TO 5 DAYS (TOTAL MELLOWING AND CURING TIME SHOULD TOTAL AT LEAST 5 DAYS).
- VERIFY DEPTH OF LIME STABILIZED LAYER TO DEPTH AS NOTED ON PLAN TO WITHIN ±1.0 INCH.

# GEOTECHNICAL REPORT NOTES

### SUBGRADE NOTES: • CUT AND FILL DATA ARE NOT AVAILABLE AT THIS TIME.

- BASED ON THE SOILS ENCOUNTERED IN THE BORING LOGS, THE FINAL PAVEMENT SUBGRADE IS LIKELY TO CONSIST OF BROWN CLAYS OR BROWN SANDY CLAYS AND THE PLASTICITY INDEX VALUES ARE ANTICIPATED TO BE GREATER THAN 20.
- SUBGRADE STABILIZATION IS RECOMMENDED.
- O <u>LIME STABILIZATION</u> SUBGRADE SOILS STABILIZED TO A DEPTH OF 6 OR 8 INCHES AS NOTED ABOVE. SUBGRADE SOILS SHOULD BE TESTED FOR SOIL SULFATE CONTENT PRIOR TO TREATMENT. IF ELEVATED LEVELS OF SULFATE ARE ENCOUNTERED, THEN OTHER OPTIONS SHOULD BE CONSIDERED. AN APPLICATION RATE OF 6 PERCENT BY WEIGHT IS RECOMMENDED:
- <u>6" LS:</u> 29 LBS PER SQ YARD FOR 6-INCH DEPTH • <u>8" LS:</u> 38 LBS PER SQ YARD FOR 8-INCH DEPTH
- O <u>CEMENT MAY BE USED IN LIEU OF LIME FOR STABILIZATION</u>. CEMENT APPLICATION RATE SHOULD BE DETERMINED AT THE TIME OF CONSTRUCTION.
- FILL USED TO RAISE THE GRADE SHOULD BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO USE. THE FILL MATERIAL SHOULD HAVE A MINIMUM CBR VALUE OF 3.0 AND A MAXIMUM PLASTICITY INDEX VALUE OF 45. THE MATERIAL SHOULD BE PLACED AS PER APPLICABLE CITY GUIDELINES.
- THE SUBGRADE, PRIOR TO PLACEMENT OF FILL, SHOULD BE PROOF ROLLED TO IDENTIFY WEAK AREAS. ANY IDENTIFIED WEAK AREAS SHOULD BE RECOMPACTED.

# **GENERAL NOTES:**

- INPUT PARAMETERS USED IN PAVEMENT SECTION CALCULATIONS ARE SHOWN IN TABLE NO. 4. PLEASE CALL US TO PROVIDE PAVEMENT RECOMMENDATIONS, IF NEEDED, FOR DIFFERENT INPUT VALUES. IF REPETITIVE TRUCK OR HEAVY TRUCK TRAFFIC IS ANTICIPATED, PLEASE CONTACT US FOR REVISED PAVEMENT RECOMMENDATIONS.
- PAVEMENT SECTION RECOMMENDATIONS ARE BASED ON THE DESIGN CBR VALUE. THE PAVEMENT RECOMMENDATIONS ARE NOT BASED ON THE SHRINK / SWELL CHARACTERISTICS OF THE UNDERLYING SOILS. THE PAVEMENT CAN EXPERIENCE CRACKING AND DEFORMATION DUE TO SHRINKAGE AND SWELLING CHARACTERISTICS OF THE SOILS AS DESCRIBED IN THE VERTICAL MOVEMENTS SECTION OF THIS REPORT. USE OF GEOGRID WILL HELP REDUCE THE SHRINK / SWELL RELATED REFLECTIVE CRACKING.
- BASED ON OUR OBSERVATIONS, SIGNIFICANT PAVEMENT DISTRESS HAS BEEN OBSERVED DUE TO WATER GETTING UNDERNEATH AND RELATIVELY HEAVY CONSTRUCTION TRAFFIC.
- IF WATER IS ALLOWED TO GET UNDERNEATH THE ASPHALT OR IF MOISTURE CONTENT OF THE BASE OR SUBGRADE CHANGES SIGNIFICANTLY, THEN PAVEMENT DISTRESS WILL OCCUR. MOISTURE PENETRATION UNDERNEATH THE ASPHALT PAVEMENT SURFACE MAY BE REDUCED BY INSTALLING A VERTICAL MOISTURE BARRIER, SUCH AS DEEPER CURBS; CURBS EXTENDING A MINIMUM OF 6 INCHES INTO

THE SUBGRADE SOILS SHOULD BE TESTER FOR SOLUBLE SULPHATE CONTENT PRIOR TO INSTALLATION OF LIME OR CEMENT

NOTE: SELECT FILL MATERIAL SHALL HAVE A MAXIMUM PLASTICITY INDEX OF 45 AND A CALIFORNIA BEARING RATIO (CBR) OF AT LEAST 3.0

INTEGRATED TESTING AND ENGINEERING COMPANY OF SAN ANTONIO, L.P.

DETERMINED BY ENGINEER

DURING CONSTRUCTION.

AFTER INSPECTION OF SUBGRADE

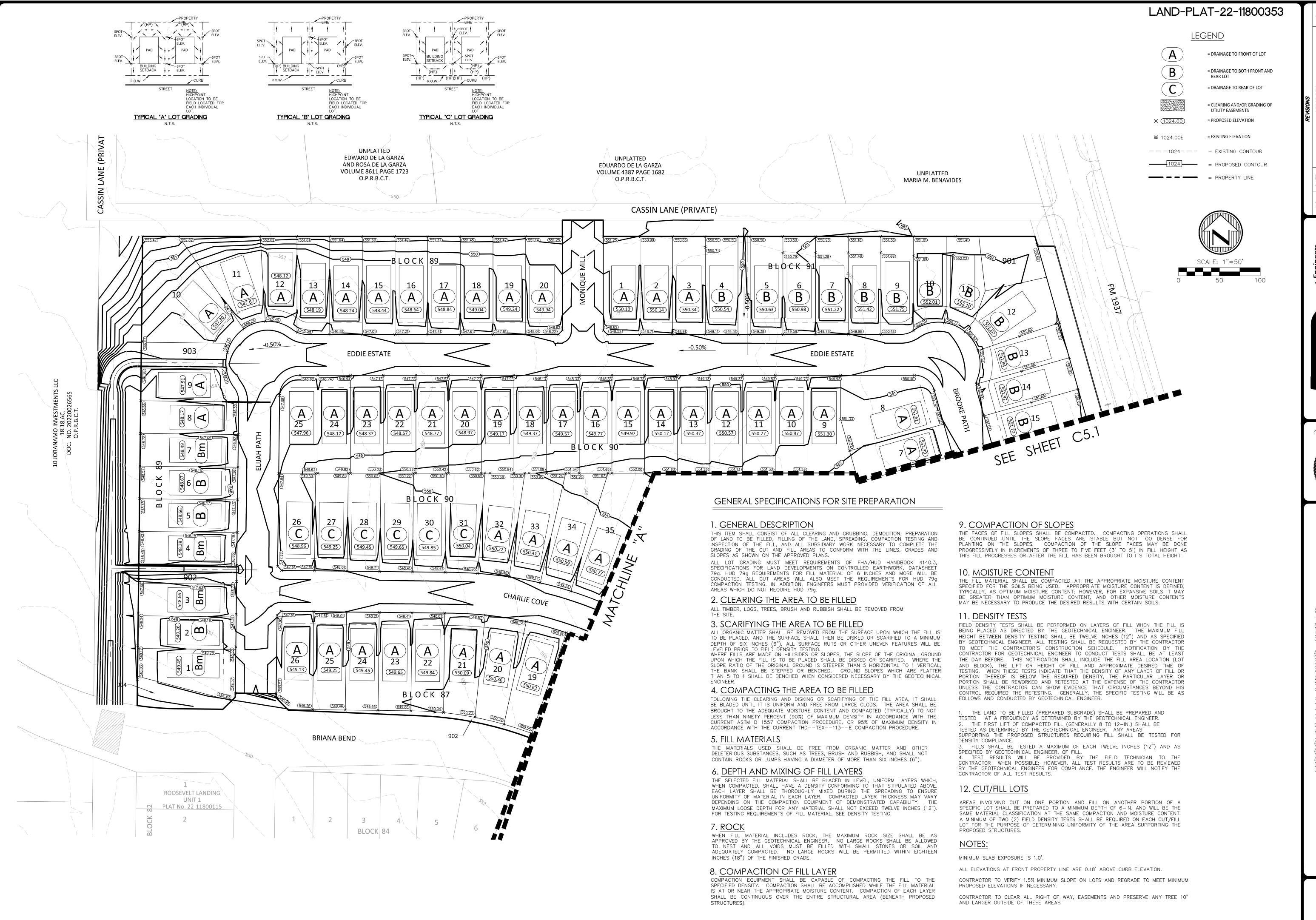
PROPOSED NEW STREETS 171 ACRE NICHOLAS TRACT

INTEC PROJECT NO. S211240-P (SEPTEMBER 10, 2021)

PAUL LANDA, JR 100182

SHEET

C4.18



SUBMITTAL SET

SHEET

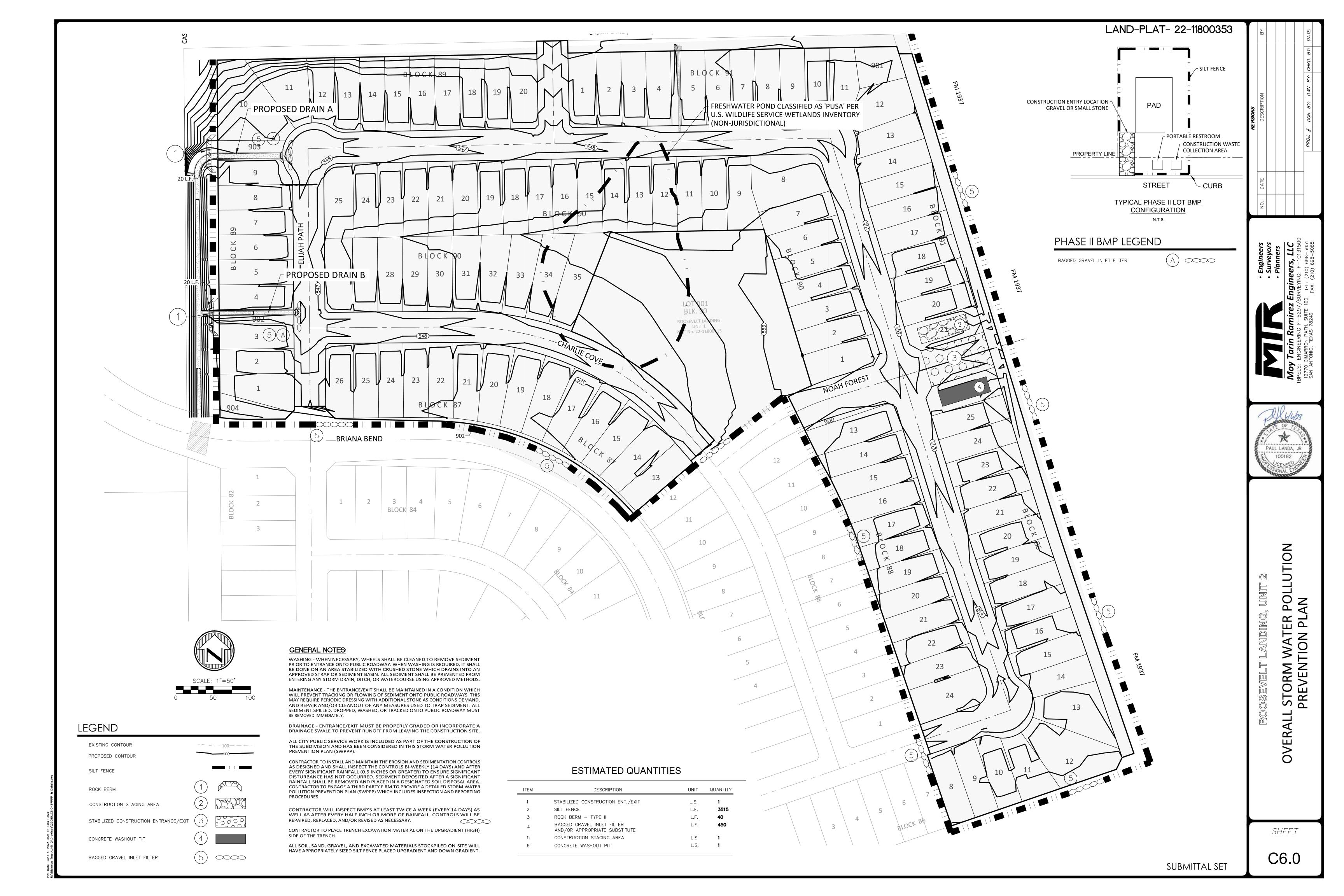
C5.0

PAUL LANDA, JR.

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GRAI



## SILT FENCE NOTES

- SILT FENCE MATERIAL SHOULD BE POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE WOVEN OR NONWOVEN FABRIC. THE FABRIC WIDTH SHOULD BE 36 INCHES, WITH A MINIMUM UNIT WEIGHT OF 4.5 OZ/YD, MULLEN BURST STRENGTH EXCEEDING 190 LB/IN 2, ULTRAVIOLET STABILITY EXCEEDING 70%, AND MINIMUM APPARENT OPENING SIZE OF U.S. SIEVE NO. 30.
   FENCE POSTS SHOULD BE MADE OF HOT ROLLED STEEL, AT LEAST 4 FEET LONG WITH TEE OR Y-BAR CROSS SECTION, SURFACE PAINTED OR
- WOVEN WIRE BACKING TO SUPPORT THE FABRIC SHOULD BE GALVANIZED 2" X 4" WELDED WIRE, 12.5 GAUGE MINIMUM.
   STEEL POSTS, WHICH SUPPORT THE SILT FENCE, SHOULD BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 1 FOOT DEEP AND SPACED NOT MORE THAN 5 FEET ON CENTER.
- MUST BE EMBEDDED A MINIMUM OF 1 FOOT DEEP AND SPACED NOT MORE THAN 5 FEET ON CENTER.

  5. LAY OUT FENCING DOWN—SLOPE OF DISTURBED AREA, FOLLOWING THE CONTOUR AS CLOSELY AS POSSIBLE. THE FENCE SHOULD BE SITED SO THAT THE MAXIMUM DRAINAGE AREA IS % ACRE/100 FEET OF FENCE.

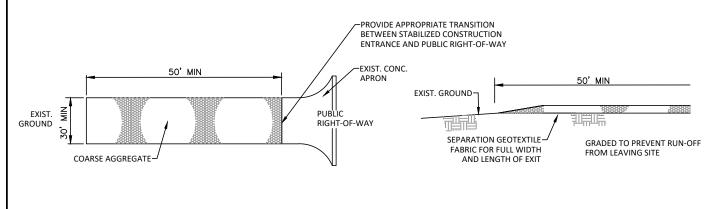
GALVANIZED, MINIMUM NOMINAL WEIGHT 1.25 LB/FT 2 , AND BRINDELL HARDNESS EXCEEDING 140.

11. REPLACE ANY TORN FABRIC OR INSTALL A SECOND LINE OF FENCING PARALLEL TO THE TORN SECTION.

- 6. THE TOE OF THE SILT FENCE SHOULD BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWN—SLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (E.G., PAVEMENT OR ROCK OUTCROP), WEIGHT FABRIC FLAP WITH 3 INCHES OF PEA GRAVEL ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
- WEIGHT FABRIC FLAP WITH 3 INCHES OF PEA GRAVEL ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.

  7. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
- 8. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST. THERE SHOULD BE A 3-FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
- 9. SILT FENCE SHOULD BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

  10. REMOVE SEDIMENT WHEN BUILDUP REACHES 6 INCHES, OR INSTALL A SECOND LINE OF FENCING PARALLEL TO THE OLD FENCE.
- 12. REPLACE OR REPAIR ANY SECTIONS CRUSHED OR COLLAPSED IN THE COURSE OF CONSTRUCTION ACTIVITY. IF A SECTION OF FENCE IS OBSTRUCTING VEHICULAR ACCESS, CONSIDER RELOCATING IT TO A SPOT WHERE IT WILL PROVIDE EQUAL PROTECTION, BUT WILL NOT OBSTRUCT VEHICLES. A TRIANGULAR FILTER DIKE MAY BE PREFERABLE TO A SILT FENCE AT COMMON VEHICLE ACCESS POINTS.



# TEMPORARY CONSTRUCTION ENTRANCE/EXIT NOTES

- 1. THE AGGREGATE SHOULD CONSIST OF 4 TO 8 INCH WASHED STONE OVER A STABLE FOUNDATION.
- 2. THE AGGREGATE SHOULD BE PLACED WITH A MINIMUM THICKNESS OF 8 INCHES.

PLAN VIEW

3. THE GEOTEXTILE FABRIC SHOULD BE DESIGNED SPECIFICALLY FOR USE AS A SOIL FILTRATION MEDIA WITH AN APPROXIMATE WEIGHT OF 6 OZ/YD 2 , A MULLEN BURST RATING OF 140 LB/IN 2 , AND AN EQUIVALENT OPENING SIZE GREATER THAN A NUMBER 50 SIEVE.

**PROFILE** 

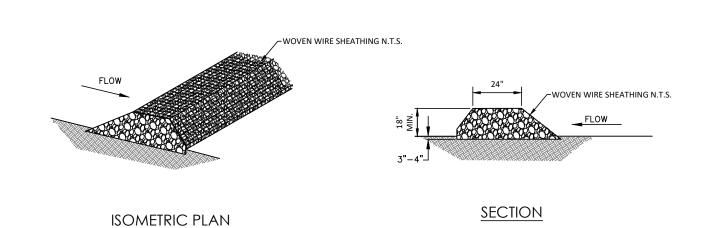
- 4. AVOID CURVES ON PUBLIC ROADS AND STEEP SLOPES. REMOVE VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA. GRADE CROWN FOUNDATION FOR POSITIVE DRAINAGE.
- 5. THE MINIMUM WIDTH OF THE ENTRANCE/EXIT SHOULD BE 12 FEET OR THE FULL WIDTH OF EXIT ROADWAY, WHICHEVER IS GREATER.
- 6. THE CONSTRUCTION ENTRANCE SHOULD BE AT LEAST 50 FEET LONG.7. PLACE GEOTEXTILE FABRIC AND GRADE FOUNDATION TO IMPROVE STABILITY, ESPECIALLY WHERE WET CONDITIONS ARE ANTICIPATED.
- 8. PLACE STONE TO DIMENSIONS AND GRADE SHOWN. LEAVE SURFACE SMOOTH AND SLOPE FOR DRAINAGE.

  9. THE ENTRANCE SHOULD BE MAINTAINED IN A CONDITION, WHICH WILL PREVENT TRACKING OR ELOWING OF SEDIMENT ONTO PUBLIC.
- 9. THE ENTRANCE SHOULD BE MAINTAINED IN A CONDITION, WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS—OF—WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

  10. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ON TO PUBLIC RIGHTS—OF—WAY SHOULD BE REMOVED IMMEDIATELY BY CONTRACTOR.
- 11. WHEN NECESSARY, WHEELS SHOULD BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
- 12. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED

STABILIZED CONSTRUCTION ENTRANCE / EXIT

13. ALL SEDIMENT SHOULD BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATER COURSE.

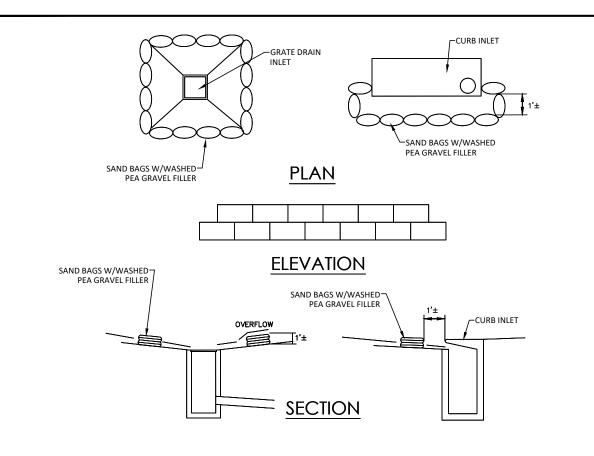


# ROCK BERM NOTES

- 1. THE BERM STRUCTURE SHOULD BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM OPENING OF 1 INCH AND A MINIMUM WIRE DIAMETER OF 20 GAUGE GALVANIZED AND SHOULD BE SECURED WITH SHOAT RINGS.
- 2. CLEAN, OPEN GRADED 3-TO 5-INCH DIAMETER ROCK SHOULD BE USED, EXCEPT IN AREAS WHERE HIGH VELOCITIES OR LARGE VOLUMES OF FLOW ARE EXPECTED, WHERE 5-TO 8-INCH DIAMETER ROCKS MAY BE USED.
- 3. LAY OUT THE WOVEN WIRE SHEATHING PERPENDICULAR TO THE FLOW LINE.
- 4. BERM SHOULD HAVE A TOP WIDTH OF 2 FEET MINIMUM WITH SIDE SLOPES BEING 2:1 (H:V) OR FLATTER.
- 5. PLACE THE ROCK ALONG THE SHEATHING TO A HEIGHT NOT LESS THAN 18".6. WRAP THE WIRE SHEATHING AROUND THE ROCK AND SECURE WITH TIE WIRE SO THAT THE ENDS OF THE SHEATHING OVERLAP AT LEAST 2 INCHES,
- AND THE BERM RETAINS ITS SHAPE WHEN WALKED UPON.
- 7. BERM SHOULD BE BUILT ALONG THE CONTOUR AT ZERO PERCENT GRADE OR AS NEAR AS POSSIBLE.

  8. THE ENDS OF THE BERM SHOULD BE TIED INTO EXISTING UPSLOPE GRADE AND THE BERM SHOULD BE BURIED IN A TRENCH APPROXIMATELY 3 TO
- 4 INCHES DEEP TO PREVENT FAILURE OF THE CONTROL.

  9. INSPECTION SHOULD BE MADE WEEKLY AND AFTER EACH RAINFALL BY THE RESPONSIBLE PARTY. FOR INSTALLATIONS IN STREAMBEDS, ADDITIONAL DAILY INSPECTIONS SHOULD BE MADE. THE BERM SHOULD BE RESHAPED AS NEEDED DURING INSPECTION.
- 10. REMOVE SEDIMENT AND OTHER DEBRIS WHEN BUILDUP REACHES 6 INCHES AND DISPOSE OF THE ACCUMULATED SILT OF IN AN APPROVED MANNER AND REPAIR ANY LOOSE WIRE SHEATHING.
- 11. THE BERM SHOULD BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
- 12. THE ROCK BERM SHOULD BE LEFT IN PLACE UNTIL ALL UPSTREAM AREAS ARE STABILIZED AND ACCUMULATED SILT REMOVED.



- 1. THE GRAVEL BAG MATERIAL SHOULD BE POLYPROPYLENE, POLYETHYLENE, POLYAMIDE OR COTTON BURLAP WOVEN FABRIC, MINIMUM UNIT WEIGHT 4 OZ/YD 2 , MULLEN BURST STRENGTH EXCEEDING 300 PSI AND ULTRAVIOLET STABILITY EXCEEDING 70 PERCENT.
- 2. THE BAG LENGTH SHOULD BE 24 INCHES, WIDTH SHOULD BE 18 INCHES AND THICKNESS SHOULD BE 6
- 3. THE GRAVEL BAGS SHOULD BE FILLED WITH 34" GRAVEL .

MADE PROMPTLY AS NEEDED BY THE CONTRACTOR.

- 4. WHEN A GRAVEL BAG IS FILLED WITH GRAVEL, THE OPEN END OF THE GRAVEL BAG SHOULD BE STAPLED OR TIED WITH NYLON OR POLY CORD.
- 5. THE GRAVEL BAGS SHOULD BE PLACED AS SHOWN ON THE DETAIL. THE GRAVEL BAGS SHALL BE STACKED TO FORM A CONTINUOUS BARRIER AROUND THE INLETS. THE BAGS SHOULD BE TIGHTLY ABUTTED AGAINST EACH OTHER TO PREVENT RUNOFF FROM FLOWING BETWEEN THE BAGS.
- EACH OTHER TO PREVENT RUNOFF FROM FLOWING BETWEEN THE BAGS.

  6. INSPECTION SHOULD BE MADE WEEKLY AND AFTER EACH RAINFALL. REPAIR OR REPLACEMENT SHOULD BE
- 7. CHECK PLACEMENT OF DEVICE TO PREVENT GAPS BETWEEN DEVICE AND CURB.

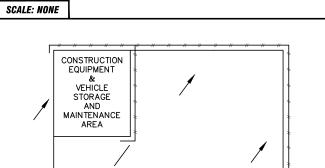
  8. REMOVE SEDIMENT WHEN BUILDUP REACHES A DEPTH OF 3 INCHES REMOVED SEDIMENT SHOULD BE
- 8. REMOVE SEDIMENT WHEN BUILDUP REACHES A DEPTH OF 3 INCHES. REMOVED SEDIMENT SHOULD BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
- 9. STRUCTURES SHOULD BE REMOVED AND THE AREA STABILIZED ONLY AFTER THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.



BAGGED GRAVEL INLET FILTER

SCALE: NON

ROCK BERM



SILT FENCE DETAIL

AND
MAINTENANCE
AREA

CONSTRUCTION
AND WASTE
MATERIAL
STORAGE
AREA

FIELD
OFFICE

ENTRANCE

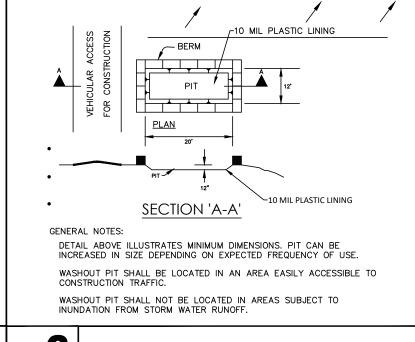
ENTRANCE

FIELD
OFFICE

SILT FENCE
FLOW ARROWS

SCALE: NONE

CONSTRUCTION STAGING AREA



SCALE: NONE

6 CONCRETE TRUCK WASHOUT PIT

SCALE: NONE

PAUL LANDA, JR

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SEVELT LANDING, UNIT 2
POLLUTION PREVENTION PLA

SHEET

STORM WATER

C6.1

SUBMITTAL SET