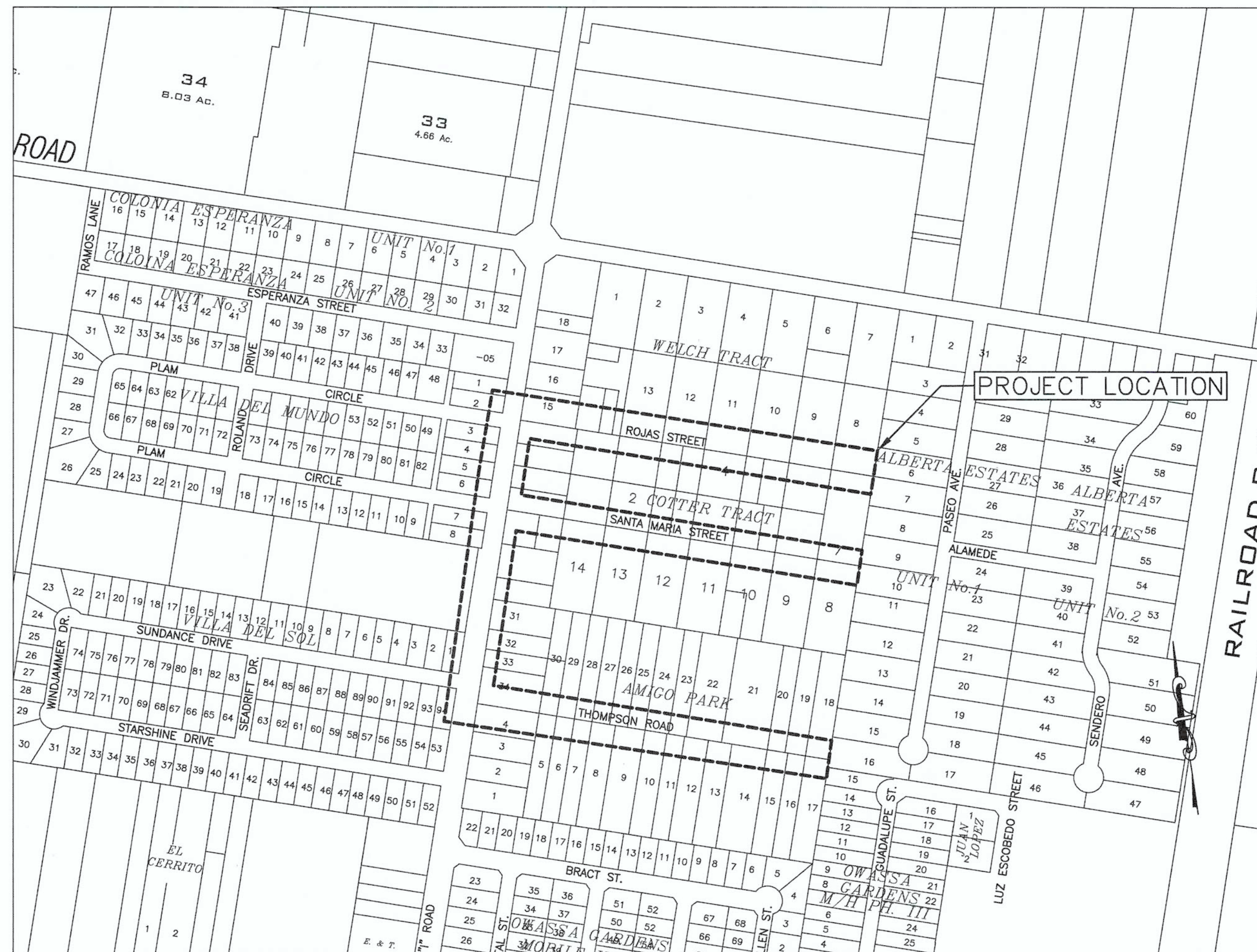


CONSTRUCTION PLANS FOR CITY OF EDINBURG VETERANS BLVD. DRAINAGE IMPROVEMENTS EDINBURG, TEXAS

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CITY OFFICIALS

- RICHARD MOLINA MAYOR
- RON GARZA CITY MANAGER
- JORGE SALINAS COUNCIL MEMBER - PLACE 1
- GILBERT ENRIQUEZ COUNCIL MEMBER - PLACE 2
- JOHNNY GARZA COUNCIL MEMBER - PLACE 3
- JORGE SALINAS MAYOR PRO-TEM
- MYRA AYALA CITY SECRETARY





 JOSE LUIS MUÑOZ, P.E.

6/2/2021
 DATE

JUNE, 2021



GUZMAN & MUÑOZ
 ENGINEERING AND SURVEYING, INC.
 MERCEDES, TEXAS
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 TEXAS REGISTERED ENGINEERING FIRM F-8017
 TBPLS FIRM REGISTRATION NO. 10087700

GENERAL NOTES:

- ALL WORK SHALL COMPLY WITH THE MOST RECENT LOCAL, STATE AND FEDERAL CODES AND STANDARDS.
- THE LOCATION OF THE UTILITY LINES SHOWN IN THE PLANS ARE BASED ON UTILITY COMPANY RECORDS AND FIELD MEASUREMENTS BY GMS OR OTHER COMPANIES. THE CONTRACTOR IS RESPONSIBLE FOR REVIEW OF ALL UTILITY PURVEYOR AND CITY OR STATE RECORDS RELATIVE TO THE EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIGTESS TO LOCATE THE UTILITY LINES BEFORE EXCAVATING. IF THE ELEVATIONS OF THE UTILITY LINES ARE REQUIRED, THE CONTRACTOR SHALL CONTACT THE COMPANY THAT OWNS THE UTILITY.
- MANDATORY PROGRESS MEETINGS SHALL BE SCHEDULED AND HELD ON A MONTHLY BASIS AT A PRE-DETERMINED LOCATION AND TIME. ALL CONTRACTORS PERFORMING WORK SHALL HAVE AN AUTHORIZED AGENT ATTEND THESE MEETINGS. JOB SCHEDULING AND PERFORMANCE SHALL BE REVIEWED AND MANAGED.
- CONTRACTOR SHALL PROVIDE A CRITICAL PATH PROGRESS SCHEDULE OF ALL MAJOR COMPONENTS OF THEIR PROPOSED SCOPE OF WORK.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL REQUIRED EASEMENTS FOR THEIR WORK BEFORE PROCEEDING WITH WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED AT THE CONTRACTOR'S EXPENSE.
- PRIOR TO CONSTRUCTION, CONTRACTOR, OWNER, AND ENGINEER SHALL PERFORM AN ON-SITE FIELD INSPECTION TO DOCUMENT EXISTING CONDITIONS (NOTES AND PHOTOS).
- CONCRETE NOTES:
 - ALL CONCRETE WORK TO BE FORMED, UNLESS OTHERWISE APPROVED.
 - ALL CONCRETE TO BE 3,000-PSI MINIMUM AT 28 DAYS UNLESS OTHERWISE SHOWN. CONCRETE SHALL BE PLACED AND CURED AS PER ACI 318 LATEST REQUIREMENTS. STRENGTH TO BE DETERMINED BY CYLINDER BREAK TEST.
 - ALL REINFORCING STEEL TO BE ASTM A-615, GRADE 60, UNLESS OTHERWISE SHOWN.
- CONTRACTOR SHALL GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, AND/OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK. NOTIFY TEXAS ONE CALL FOR UTILITY LOCATIONS PRIOR TO ANY AND ALL EXCAVATIONS.
- A STORM WATER POLLUTION PREVENTION PLAN (SW3P) SHALL BE IMPLEMENTED AS PER THE CONTRACTOR'S SUBMITTED SW3P FOLLOWING GENERAL PERMIT NO. TXR 150000 ISSUED FEB. 19, 2013. ALL EROSION CONTROL MEASURES MUST BE ACKNOWLEDGED PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL SPRINKLE DEBRIS WITH WATER AS NECESSARY TO LIMIT DUST TO THE LOWEST PARTICULAR LEVEL. DO NOT SPRINKLE TO THE EXTENT OF CAUSING FLOODING OR CONTAMINATED RUN OFF.
- ALL AREAS DISTURBED BY GRADING OPERATIONS SHALL BE STABILIZED BY THE CONTRACTOR WITH GRASS OR ANY OTHER ACCEPTABLE MEANS. THE CONTRACTOR SHALL WATER THE AREA UNTIL GRASS FULLY DEVELOPS.
- CONFLICTS IN WORK OR DESIGN, BROUGHT TO LIGHT BY THE CONSTRUCTION PROCESS, SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR AN ASSESSMENT, RESOLUTION, AND DIRECTION BEFORE CONTINUING THE WORK.
- CONTRACTOR TO EXPOSE ANY EXISTING FACILITY THAT MAY BE IN CONFLICT PRIOR TO START OF EXCAVATION.
- CONTRACTOR TO PLAN AND PERFORM HIS WORK IN A MANNER THAT WILL PERMIT SAFE PUBLIC TRAFFIC MOVEMENT ON ALL STREETS AND WILL PROVIDE QUALIFIED FLAGMEN TRAFFIC CONTROL AS REQUIRED BY CITY AND STATE REGULATIONS.
- JOB FOREMAN/SUPERINTENDANT SHALL MAINTAIN A DAILY LOG OF EVENTS, WORK, AND CONDITIONS.
- WORK SITES SHALL BE MAINTAINED IN A CLEAN AND ORDERLY CONDITION WITH ALL CONSTRUCTION RELATED DEBRIS PROPERLY DISPOSED OF AS PER CITY AND STATE REGULATIONS ON A DRY BASIS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ALL EXCAVATED MATERIAL AND DEBRIS FROM THE SITE.
- NOT USED.
- CONTRACTOR SHALL REMOVE ALL EXISTING PIPE CULVERTS UNLESS OTHERWISE NOTED ON PLANS.
- DEMOLITION, REMOVAL AND DISPOSAL OF ALL EXCESS CONCRETE, CURBS, RUBBLE, ETC. TO BE DONE IN A LEGAL MANNER AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN SIGNED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED WITH THE STATE OF TEXAS. ALL TRAFFIC CONTROL DEVICES SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- ALL SAFETY REQUIREMENTS AND EQUIPMENT AS REQUIRED BY THE MOST CURRENT OSHA STANDARDS SHALL BE OBSERVED AND IMPLEMENTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND/OR SAFETY OF THE WORK SITE, WORKERS, SUB-CONTRACTORS, MATERIALS AND EQUIPMENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY STANDARDS, TEXAS LAW, AND OSHA STANDARDS FOR ALL EXCAVATIONS IN EXCESS OF FOUR FEET IN DEPTH. TRENCHES AND/OR EXCAVATIONS MAY NOT BE LEFT OPEN OVER NIGHT.
- CONTRACTOR SHALL AT ALL TIMES ALLOW ACCESS TO EXISTING DRIVEWAY OR PROVIDE/MAINTAIN ALTERNATIVE ALL-WEATHER ROUTES. CONTRACTOR TO INSURE SAME DAY ACCESS TO ALL RESIDENCE AND BUSINESSES ADJACENT TO CONSTRUCTION.
- NO WATER JETTING ALLOWED. MECHANICAL COMPACTION REQUIRED.
- ALL DRAINAGE AND MANHOLE STRUCTURES TO BE ADJUSTED BY THE CONTRACTOR TO MEET FINAL GRADES. A MAXIMUM OF TWO FEET (2') OF THROAT RINGS WILL BE ALLOWED (UNLESS OTHERWISE SPECIFIED BY THE OWNER/ENGINEER).
- ANY DAMAGES TO FENCES, WALKWAYS, OR PRIVATE PROPERTY SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- ALL CONSTRUCTION MATERIAL TESTING WILL BE COORDINATED THROUGH THE DESIGNATED TESTING FIRM AND THE ENGINEER'S OFFICE.
- PAVED SURFACES SHALL BE PROTECTED FROM DAMAGED CAUSED BY TRACKED EQUIPMENT.
- UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL RETURN THE SITE TO ORIGINAL CONTOURS UNLESS DIFFERENT FINISHED ELEVATIONS ARE SHOWN ON PLANS. CONTRACTOR TO INSURE NO AREAS OF PONDING ARE PRESENT. CONTRACTOR SHALL RETURN THE SITE TO ORIGINAL CONDITIONS INCLUDING BUT NOT LIMITED TO BACKFILL, TOP SOIL, HYDROMULCH, ETC.
- "THIS PROJECT IS SUBJECT TO THE AMERICAN IRON AND STEEL (AIS) REQUIREMENTS OF SECTION 608 OF THE FEDERAL WATER POLLUTION CONTROL ACT. ALL IRON AND STEEL PRODUCTS FOR CONSTRUCTION, ALTERATION, MAINTENANCE OR REPAIR INCORPORATED IN THESE PLANS MUST BE PRODUCED IN THE UNITED STATES."
- CONTRACTOR MUST ADHERE TO THE FOLLOWING REQUIREMENTS REGARDING FINDINGS OF ENVIRONMENTAL CONDITIONS:
 - AS PER AGREEMENT WITH THE TEXAS PARKS AND WILDLIFE DEPARTMENT (TPWD PROJECT NO. 35737) AND IN ORDER TO ENSURE COMPLIANCE WITH THE MIGRATORY BIRD TREATY ACT, VEGETATION CLEARING AND CONSTRUCTION ACTIVITIES WILL BE SCHEDULED OUTSIDE OF THE MARCH 15 - SEPTEMBER 15 MIGRATORY BIRD NESTING SEASON. IF VEGETATION CLEARING MUST BE SCHEDULED TO OCCUR DURING THE NESTING SEASON, A BIRD NEST SURVEY WILL BE PERFORMED BY A QUALIFIED BIOLOGIST. IF ACTIVE NESTS ARE OBSERVED DURING SURVEYS, CONTRACTOR SHOULD LEAVE A VEGETATION BUFFER OF 150 FEET UNTIL YOUNG HAVE FLEDGED OR THE NEST IS ABANDONED.
 - STANDARD EMERGENCY CONDITIONS DECLARED FOR THE DISCOVERY OF CULTURAL RESOURCES.
 - STANDARD EMERGENCY CONDITIONS DECLARED FOR THE DISCOVERY OF THREATENED AND ENDANGERED SPECIES.

SITE PREPARATION NOTES:

- STRIP ASPHALT AND BASE MATERIAL. ANY SOFT AREAS IN THE EXPOSED SUBGRADE AFTER STRIPPING OR AFTER REMOVAL OF ANY EXISTING FACILITIES SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL UNDER CONTROLLED CONDITIONS.
- PROOF ROLL THE CONSTRUCTION AREA WITH HEAVY EQUIPMENT WEIGHING AT LEAST 20 TONS. SOILS THAT RUT OR DEFLECT EXCESSIVELY SHALL BE REMOVED AND REPLACED WITH SOIL THAT MEETS SELECT FILL MATERIAL REQUIREMENTS.
- BRING THE SUBGRADE TO THE REQUIRED GRADE.
- EXPOSED SUBGRADE SHALL BE SCARIFIED AND STABILIZED TO A DEPTH OF 6". HYDRATED LIME TO BE MIXED IN BY DRY WEIGHT, AS STATED IN THE PLANS PERFORMED IN ACCORDANCE WITH TxDOT ITEM 260.
- COMPACT THE STABILIZED SUBGRADE TO 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY AT OPTIMUM TO PLUS FOUR PERCENT (+4%) ABOVE OPTIMUM MOISTURE.
- INSTALL THE FLEXIBLE BASE IN A MAXIMUM OF 8" LOOSE LIFTS (6" COMPACTED LIFTS) COMPACTED TO 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY NEAR OPTIMUM MOISTURE CONTENT. BASE MATERIAL WITH COURSE AGGREGATE SHALL BE COMPACTED WITH SMOOTH VIBRATOR ROLLER OR OTHER METHOD APPROVED BY ENGINEER, TO MAINTAIN SPECIFIED GRADATION AFTER IS COMPACTED.
- CALICHE FLEXIBLE BASE SHALL MEET THE REQUIREMENTS OF TxDOT ITEM 247, TYPE E, GRADE 4 OR BETTER.
- HOT-MIX ASPHALTIC CONCRETE SHALL CONFORM TO TxDOT ITEM 340, TYPE D.
- A TESTING LABORATORY CONTRACTED BY THE OWNER SHALL VERIFY THE SUBGRADE AND FLEXIBLE BASE MEET THE PROJECT SPECIFICATIONS AS WELL AS THE FIELD COMPACTION OF THE SUBGRADE, FLEXIBLE BASE, AND HOTMIX. GUZMAN AND MUNOZ ENGINEERING AND SURVEYING SHALL BE NOTIFIED IN WRITING OF THE MEASUREMENTS IN THE FIELD.

PAVING CONSTRUCTION NOTES:

- HOT MIX ASPHALT CONCRETE TO BE IN ACCORDANCE WITH TxDOT ITEM 340, TYPE "D". HOT MIX SHALL BE LAID AT A MINIMUM TEMPERATURE OF 225°F.
- SUBGRADE EXCAVATION AND COMPACTION TO BE INCLUDED IN BID PRICE PER SQUARE YARD FOR SUBGRADE BID ITEM.
- CONTRACTOR TO FILL BEHIND CURBS AND WALKS AND SHAPE TO ENSURE PROPER DRAINAGE.
- CONTRACTOR SHALL "VALLEY GUTTER" CURB SECTION AT DRIVEWAY LOCATIONS SHOWN ON DRAWINGS. CONTRACTOR SHALL BE REQUIRED TO GRADE FROM EXISTING DRIVES AND PARKING AREAS TO MATCH GRADES AND ALLOW SMOOTH TRANSITIONS AND PROPER DRAINAGE (NO SEPARATE PAY).
- CONSTRUCTION JOINTS TO EXISTING PAVEMENT SHALL BE MADE BY EITHER CUTTING BACK EXISTING PAVEMENT TO PRODUCE A SLIGHTLY BEVELED EDGE FOR THE FULL THICKNESS OF THE WEARING COURSE OR A SUITABLE LAP JOINT SHALL BE MADE. SAW CUTTING REQUIRED.
- ANY SETTLEMENT UNDER PAVEMENT DUE TO INADEQUATE COMPACTION OF UTILITY LINE BACKFILL SHALL BE CAUSE FOR RECOMPACTION OF TRENCH AND REPLACEMENT OF PAVEMENT SECTION AT CONTRACTOR'S EXPENSE.
- HOT MIX ASPHALT CONCRETE TRANSPORT TRUCKS TO BE EQUIPPED WITH CANVAS COVERS TO BE UTILIZED DURING MATERIAL HAULING. MATERIAL DELIVERED TO SITE AT IMPROPER TEMPERATURE SHALL BE REJECTED.

Checked By:	J.L.M.
Approved By:	J.L.M.
Drawn By:	A.R./J.H.
Date:	JUNE 2021

NO.	DATE	DESCRIPTION



6/2/2021

EDINBURG, TEXAS
VETERANS BLVD. DRAINAGE PROJECT
 GENERAL NOTES

G&M GUZMAN & MUÑOZ
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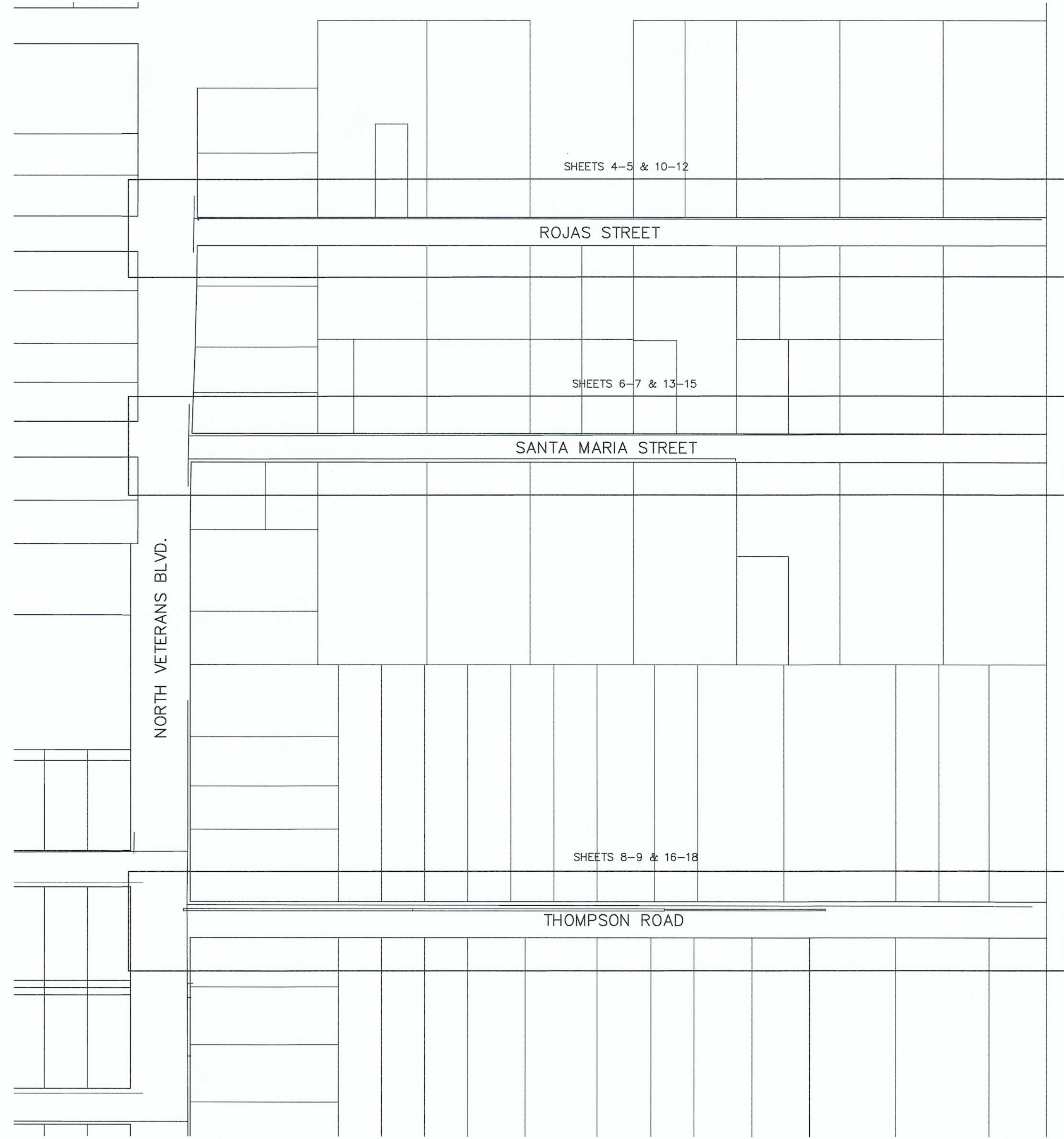
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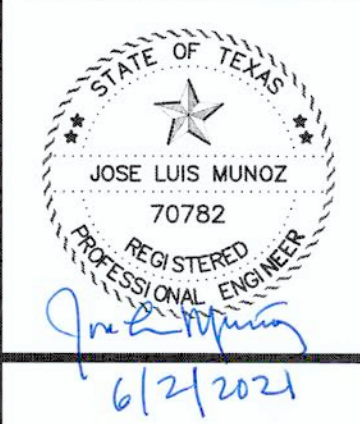
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SCALE: 1"=100'

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EDINBURG, TEXAS
 VETERANS BLVD. DRAINAGE PROJECT
 OVERALL SITE PLAN

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 MERCEDES, TEXAS

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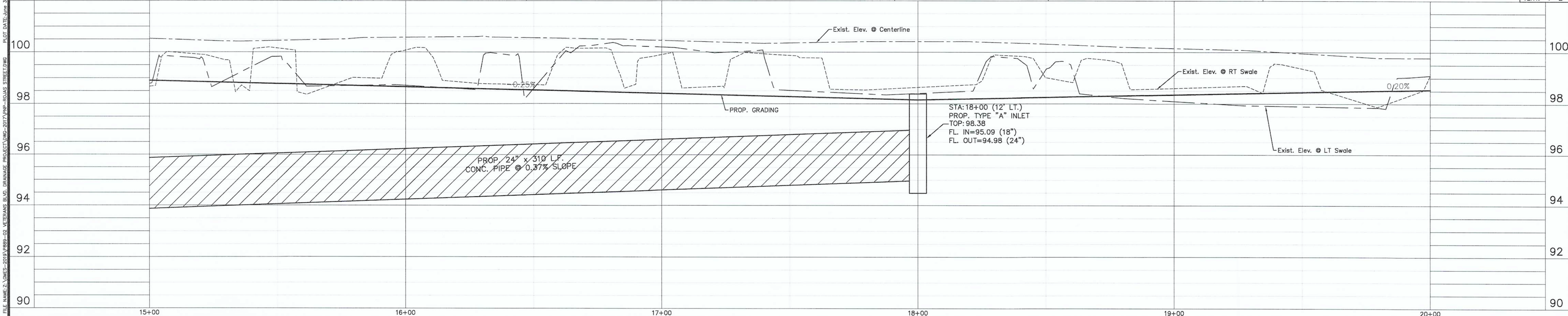
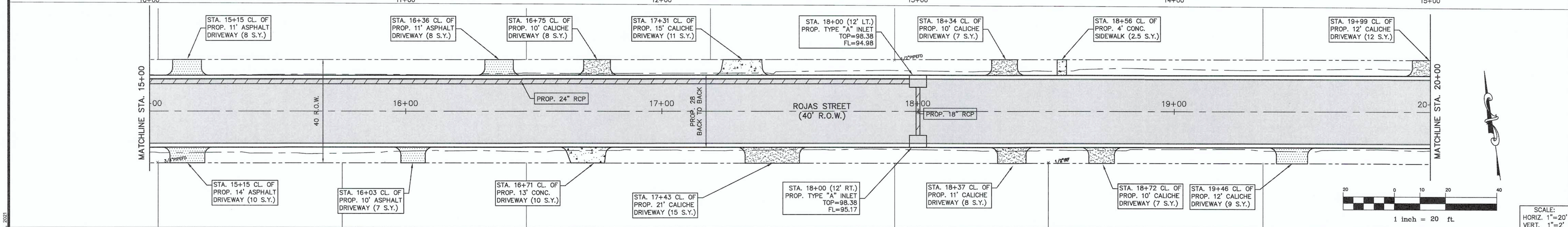
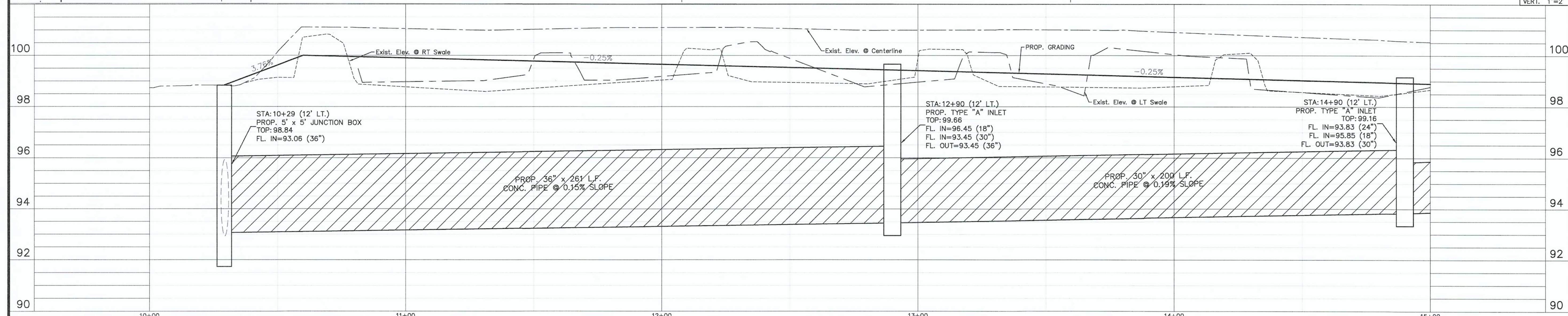
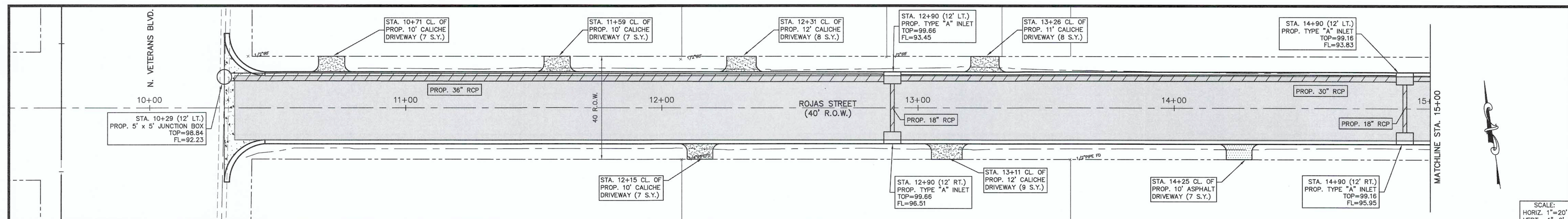
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Project No. P889-02

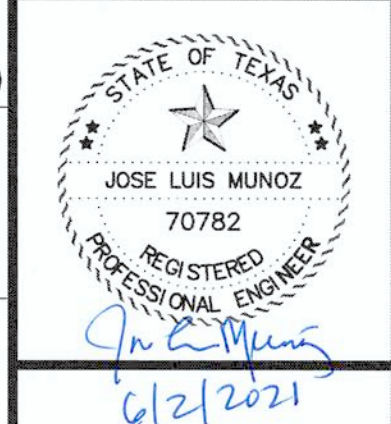
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 VETERANS BLVD. DRAINAGE PROJECT
 PROP. DRAINAGE - ROJAS STREET

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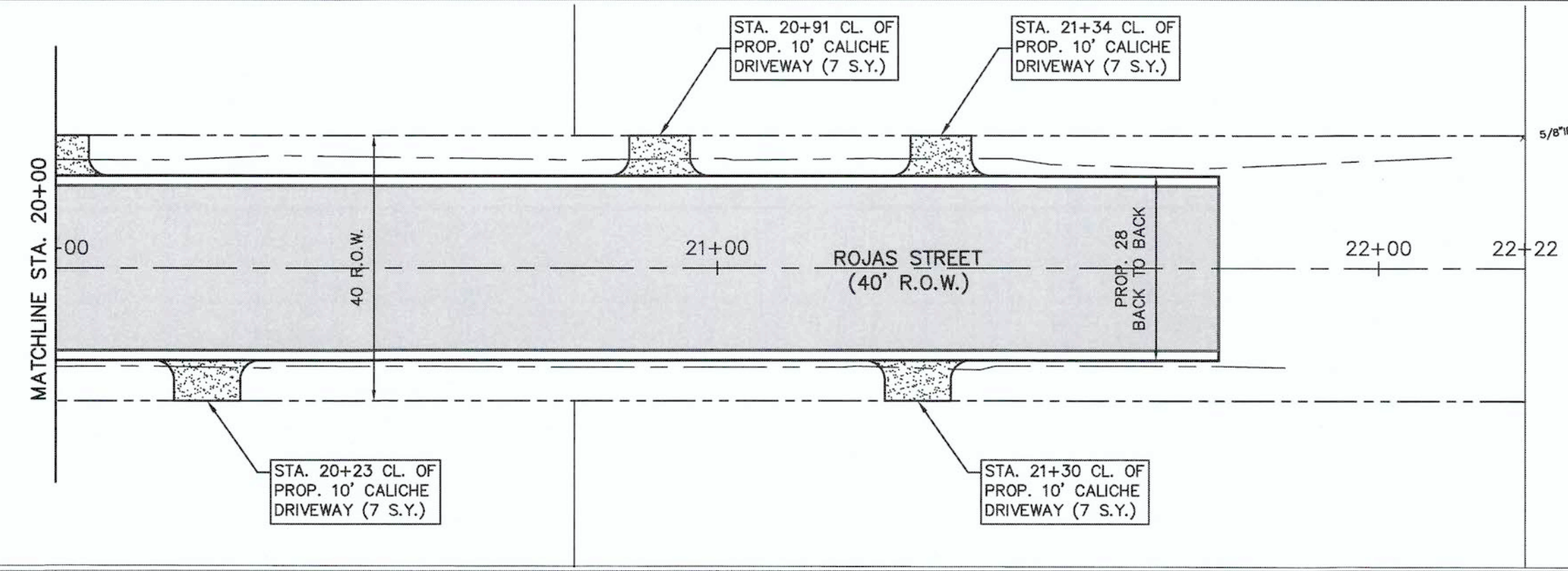
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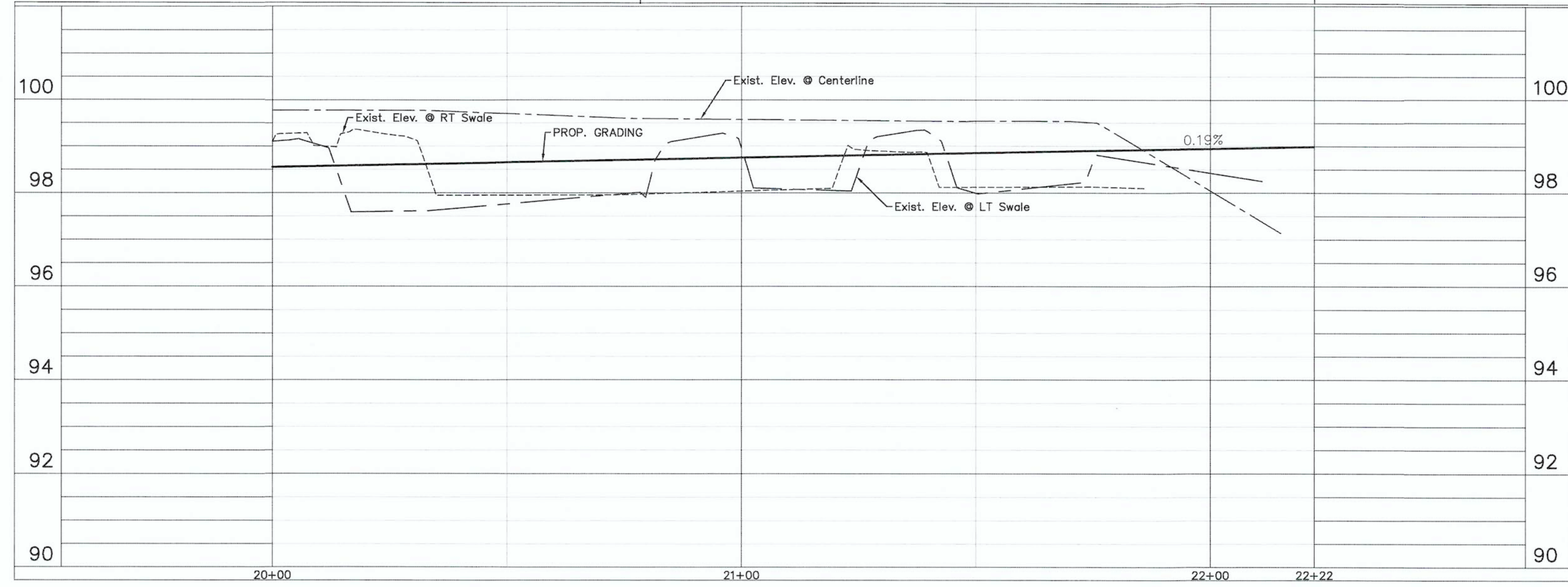
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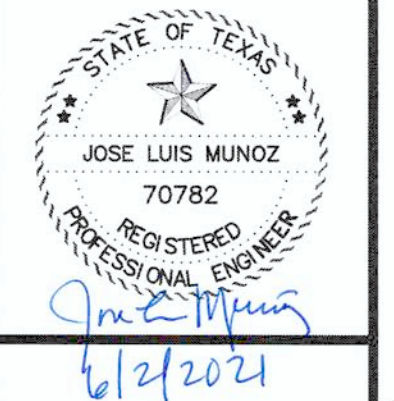
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SCALE:
HORIZ. 1"=20'
VERT. 1"=2'



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EDINBURG, TEXAS
VETERANS BLVD. DRAINAGE PROJECT
PROP. DRAINAGE - ROJAS STREET

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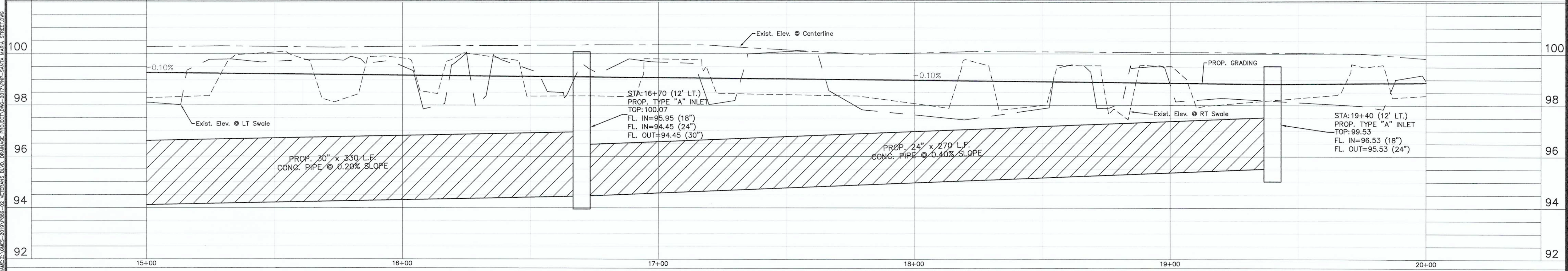
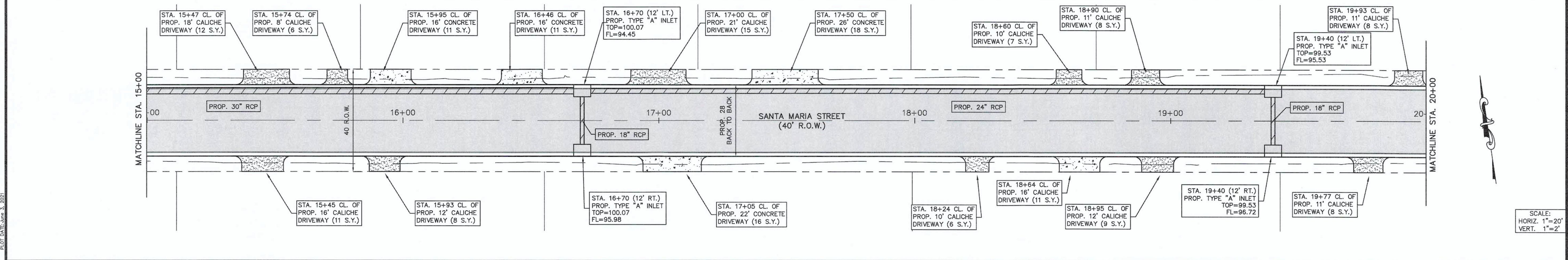
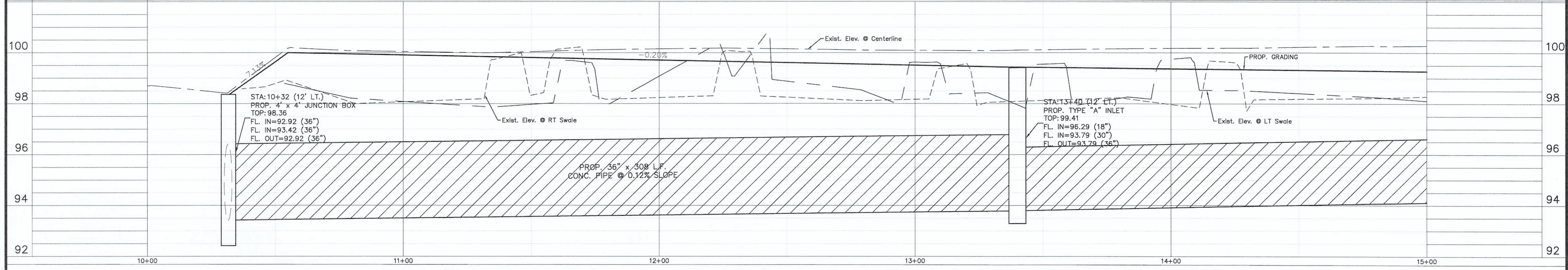
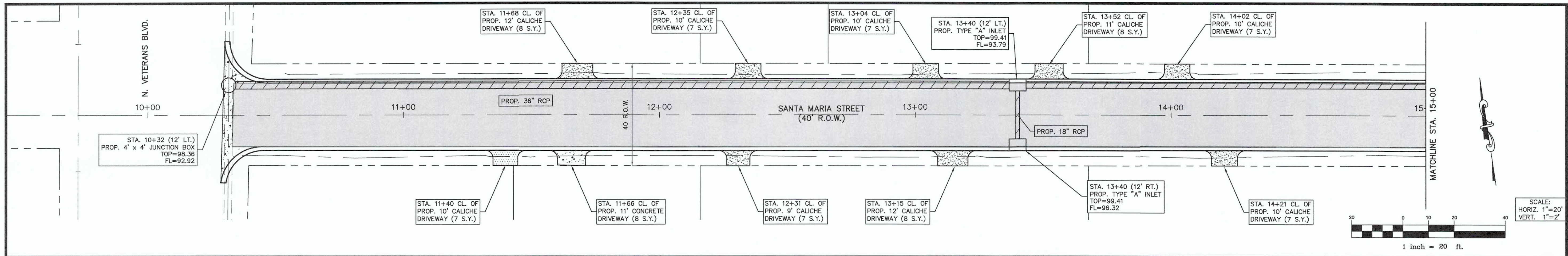
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 F-8017

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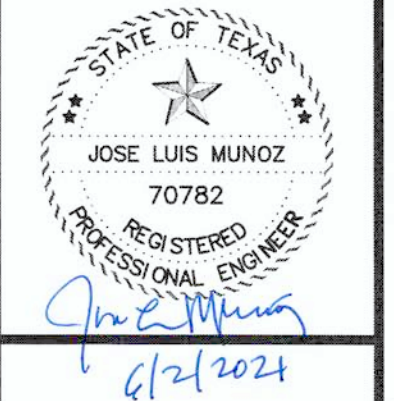
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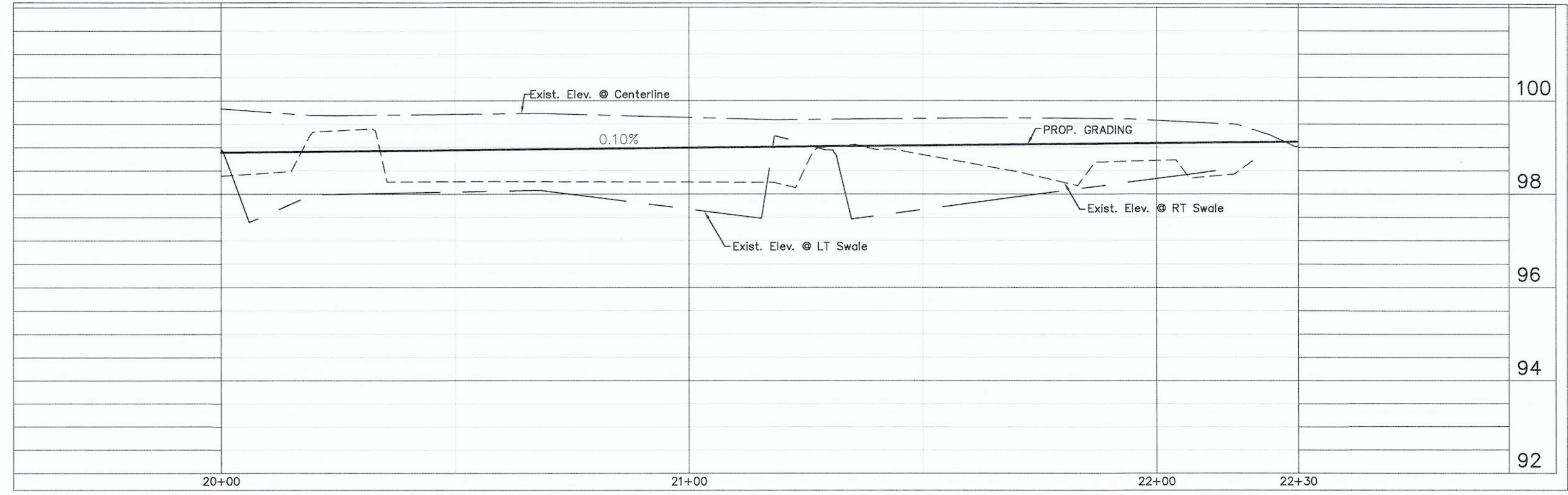
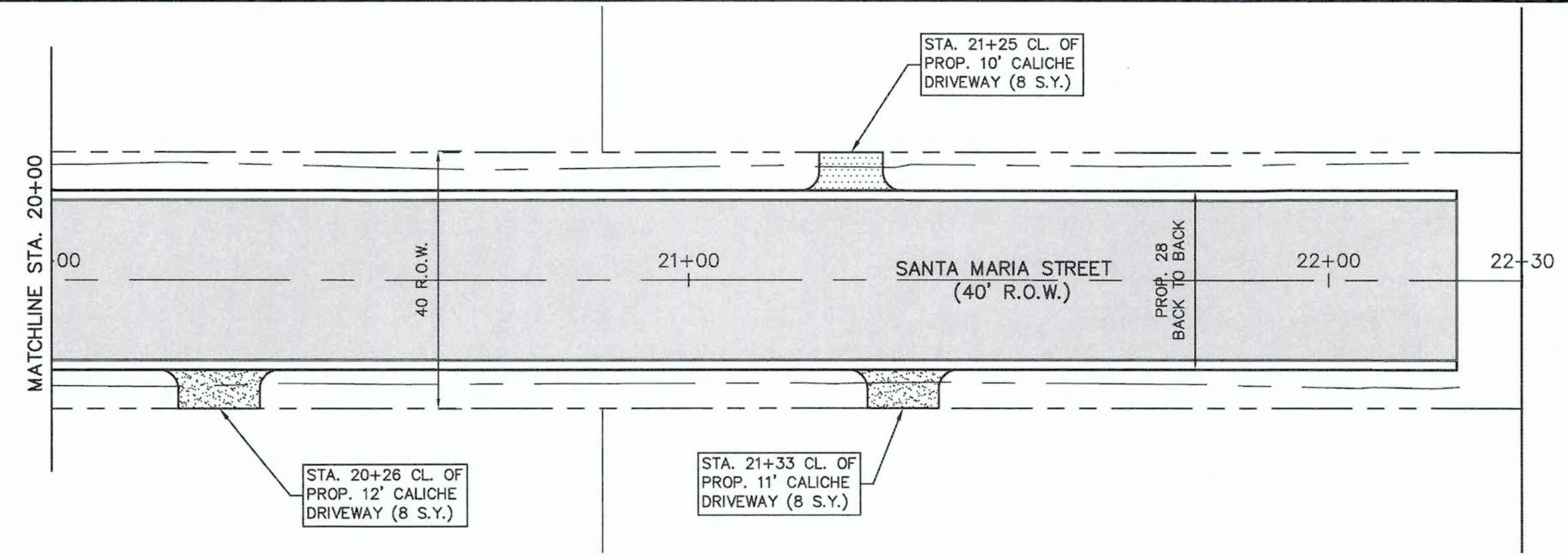
EDINBURG, TEXAS
 VETERANS BLVD. DRAINAGE PROJECT
 PROP. DRAINAGE - SANTA MARIA STREET

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 Sheet 6 of 21

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EDINBURG, TEXAS
 VETERANS BLVD. DRAINAGE PROJECT
PROP. DRAINAGE - SANTA MARIA STREET

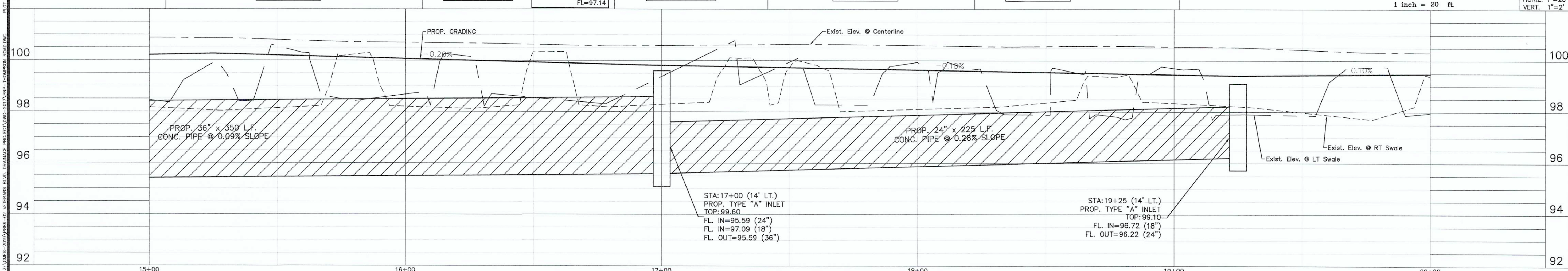
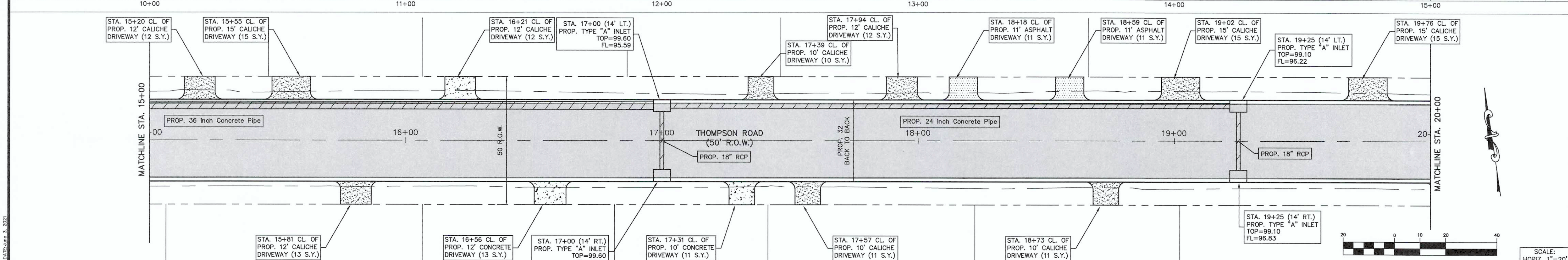
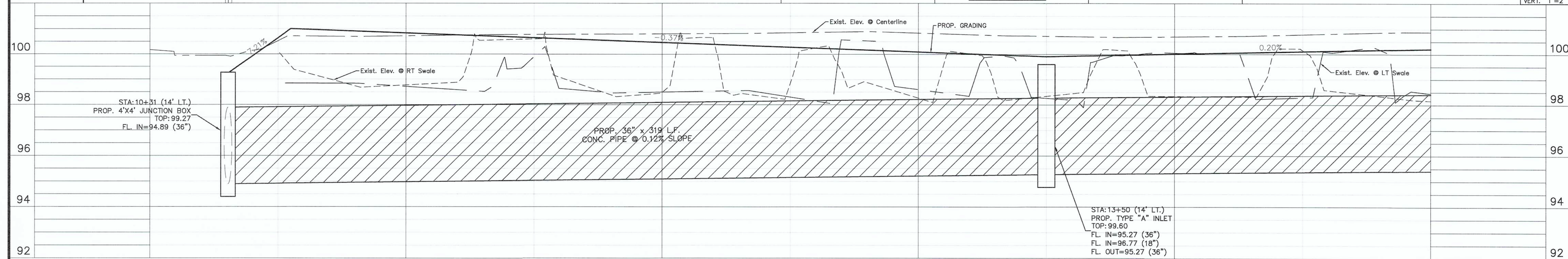
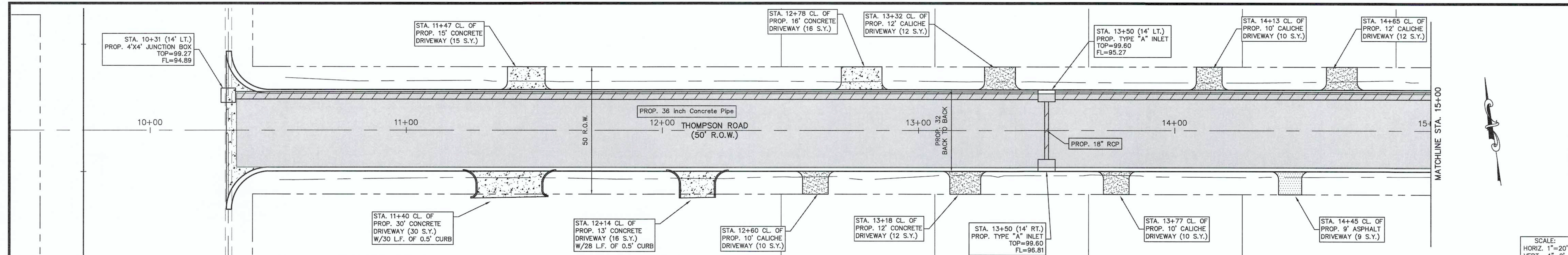
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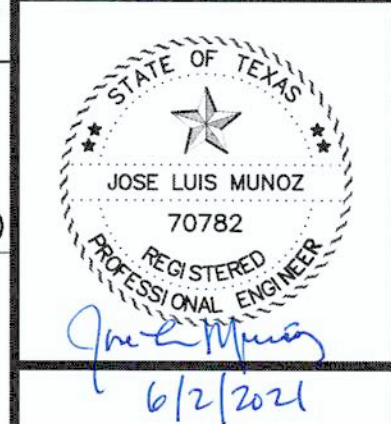
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EDINBURG, TEXAS
 VETERANS BLVD. DRAINAGE PROJECT
 PROP. DRAINAGE - THOMPSON ROAD

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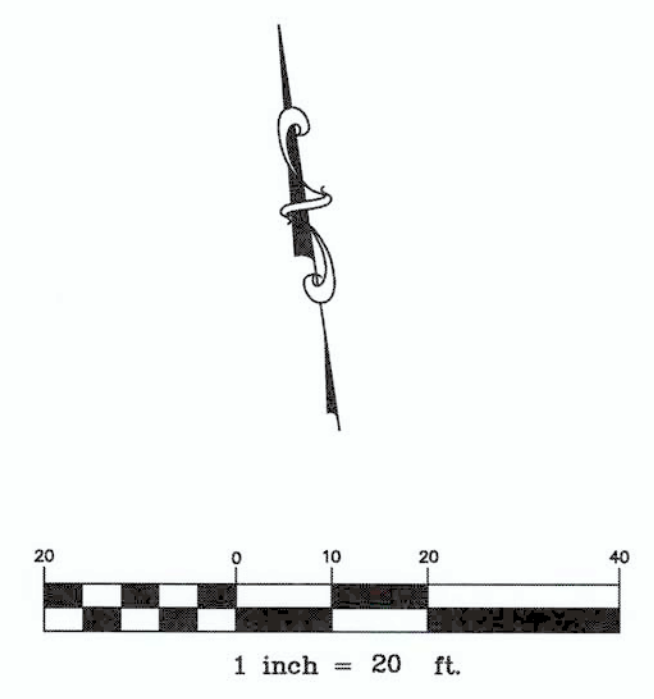
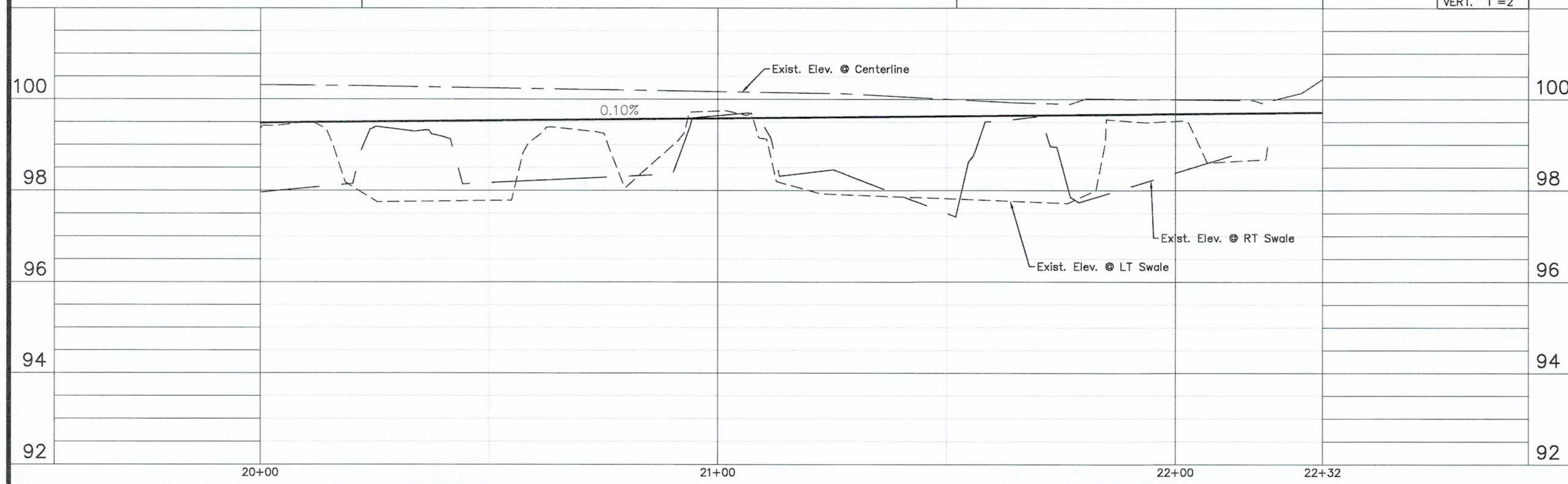
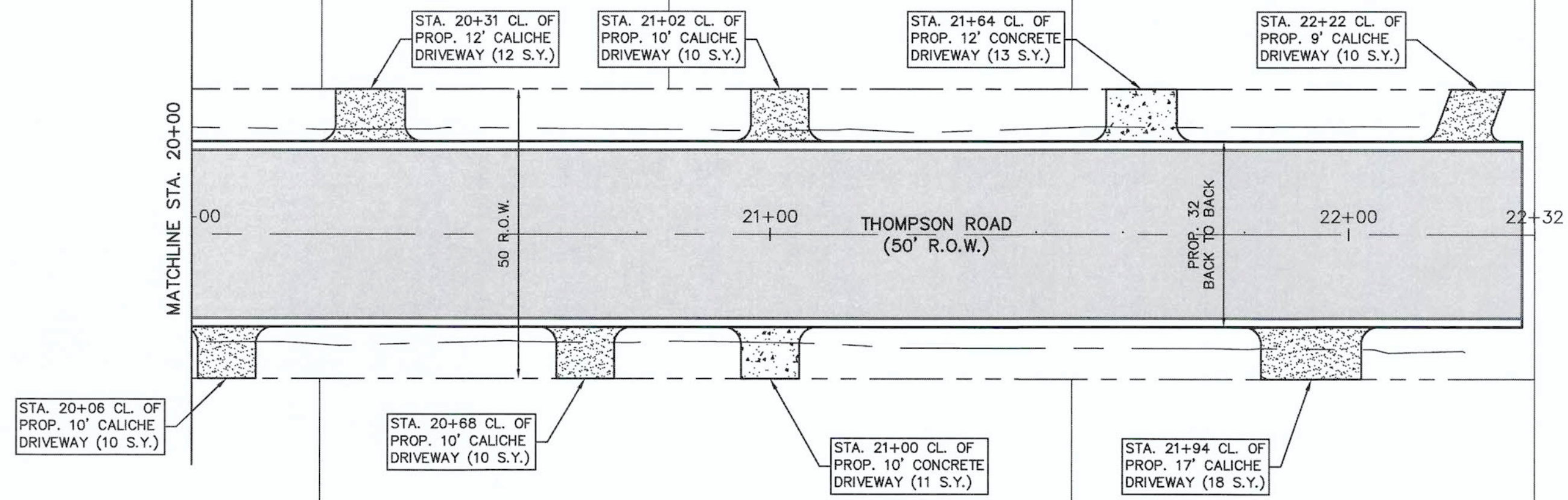
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TBPLS FIRM REGISTRATION NO.
 10087700

Project No. P889-02

FILE NAME: Z:\GMS-2019\889-02 VETERANS BLVD. DRAINAGE PROJECT\DWG-2019\PROP-THOMPSON ROAD.DWG PLOT DATE: JUN 3, 2021

FILE NAME: \\S:\2018\2018-02 VETERANS BLVD. DRAINAGE PROJECT\DWG-2017\PROP-THOMPSON ROAD (2).DWG PLOT DATE: June 3, 2021



LEGEND	
○	1/2" Iron Pin Found
⊗	Power Pole/Tel. Pole
—	Guy Wire
—	Overhead Powerline
—	Overhead Tele Line
◇	Telephone Pedestal
⊕	Telephone Warning Sign
—	Underground Tele Line
⊕	Street Sign
⊕	Stop Sign
⊕	Water Meter
⊕	Water Valve
⊕	Fire Hydrant
—	Waterline
—	San. Sewer Line
⊕	Mailbox
○	Tree
---	Existing R.O.W.

NOTE !!
 The location of all existing utilities shown on these plans are based upon record information only and may not match conditions encountered in the field. Contractor shall verify field location of all utility crossings (overhead electrical, water, gas, telephone, lines, Fiber Optic Cable, sewerlines etc., and relocate as necessary) prior to begin the construction.

Checked By:	J.L.M.
Approved By:	J.L.M.
Drawn By:	AR
Date:	JUNE 2021
REVISION:	DATE
DESCRIPTION	
NO.	

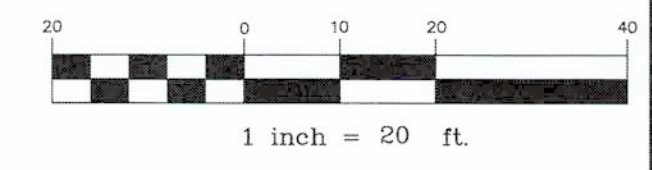
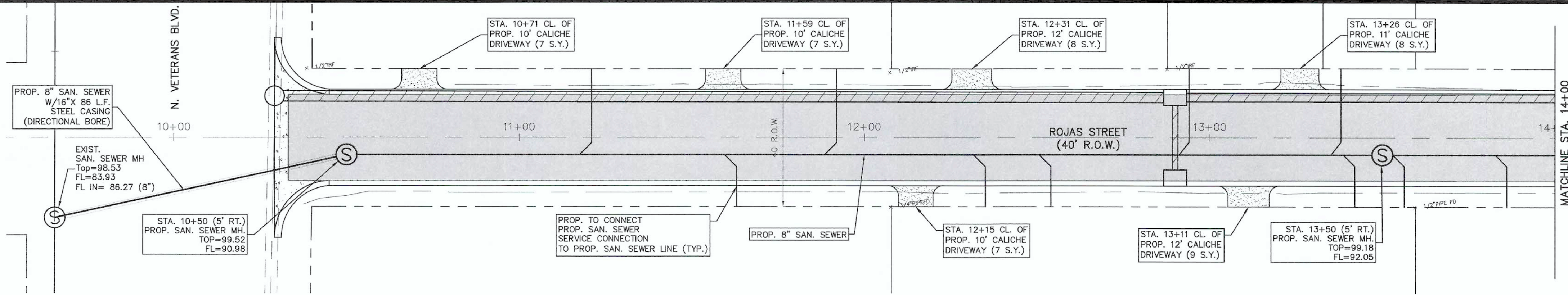


EDINBURG, TEXAS
VETERANS BLVD. DRAINAGE PROJECT
PROP. DRAINAGE - THOMPSON ROAD

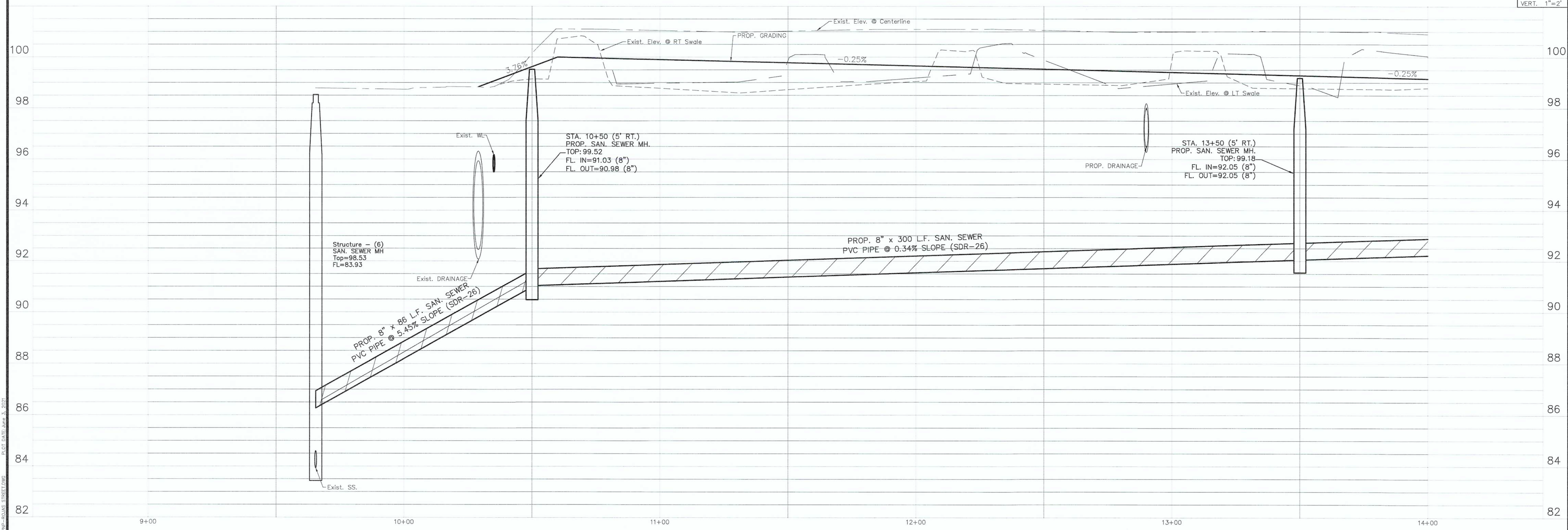
GM GUZMAN & MUÑOZ
 ENGINEERING AND SURVEYING, INC.
 MERCEDES, TEXAS
 Phone: (956) 565-4637
 Fax: (956) 565-4636
 2020 E. Expressway 83
 Mercedes, Texas 78570

TEXAS REGISTERED ENGINEERING FIRM
 F-807
 TBPLS FIRM REGISTRATION NO.
 10087700
 Project No. P889-02
 Sheet 9 Of 21

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SCALE:
HORIZ. 1"=20'
VERT. 1"=2'



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 Drawn By: AR
 Date: JUNE 2021

NO.	REVISION DESCRIPTION	DATE



EDINBURG, TEXAS
 VETERANS BLVD. DRAINAGE PROJECT
 PROP. SEWER-ROJAS STREET

G M GUZMAN & MUÑOZ
 ENGINEERING AND SURVEYING, INC.
 MERCEDES, TEXAS
 Phone: (956) 565-4637
 Fax: (956) 565-4636

TEXAS REGISTERED ENGINEERING FIRM
 F-8017
 TBPLS FIRM REGISTRATION NO. 10087700

Project No. P889-02
 Sheet 10 of 21

FILE NAME: S:\0612-2018\0612-2018-VETERANS BLVD. DRAINAGE PROJECT\DWG-2018\SEWER-PWP-ROADS-STREET.DWG PLOT DATE: June 3, 2021

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 Drawn By: AR
 Date: JUNE 2021

NO.	REVISION	DATE



6/2/2021

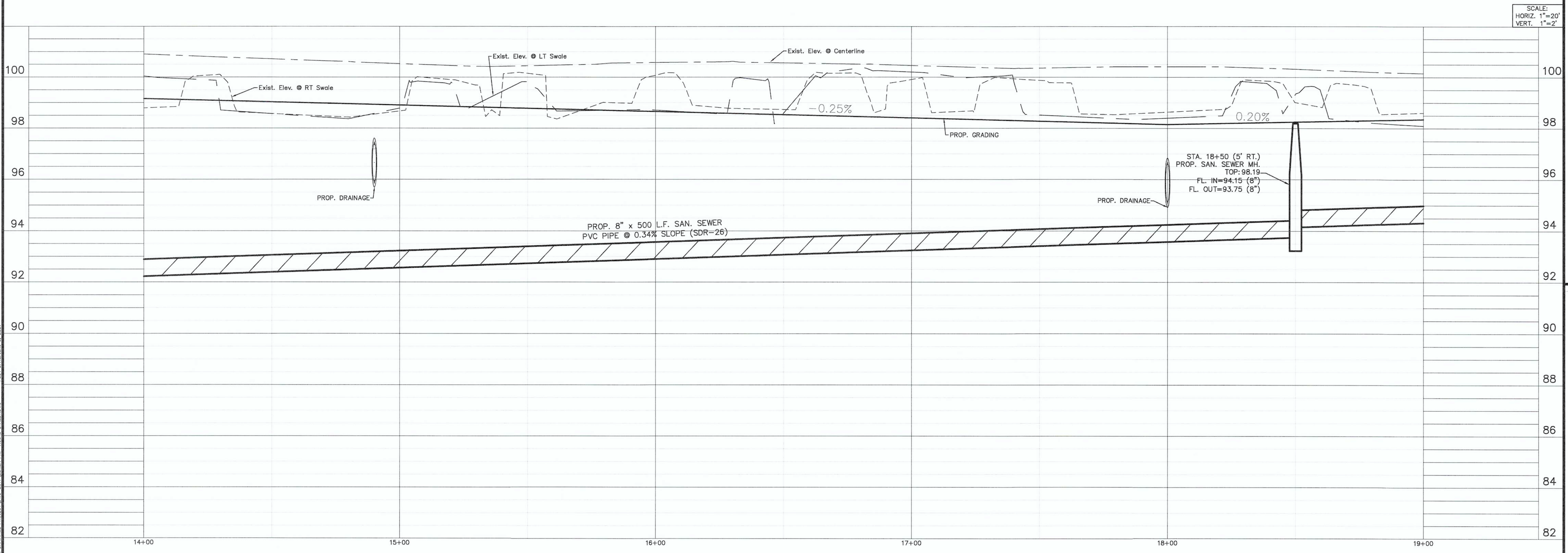
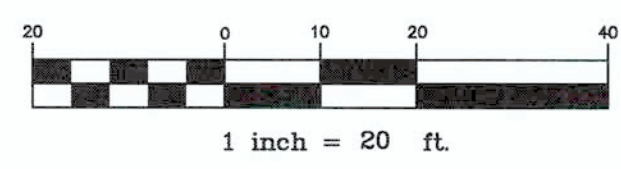
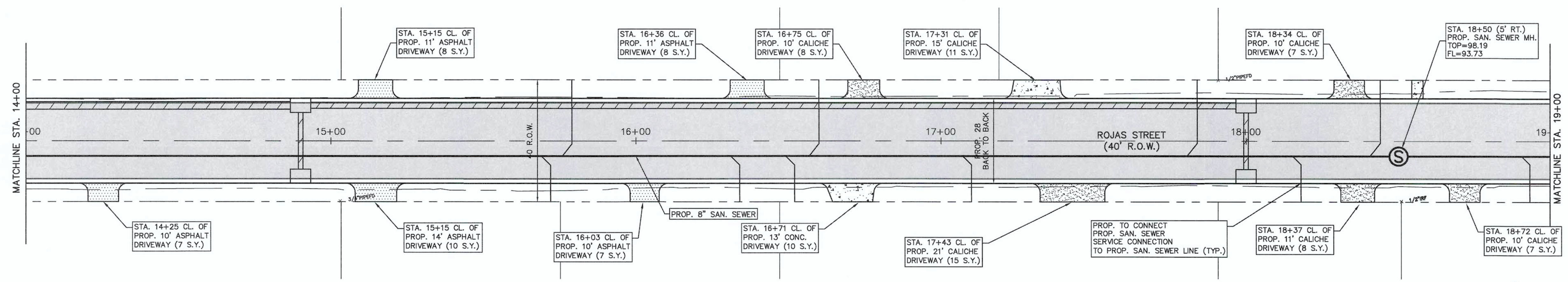
EDINBURG, TEXAS
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 PROP. SEWER-ROJAS STREET

GJM GUZMAN & MUÑOZ
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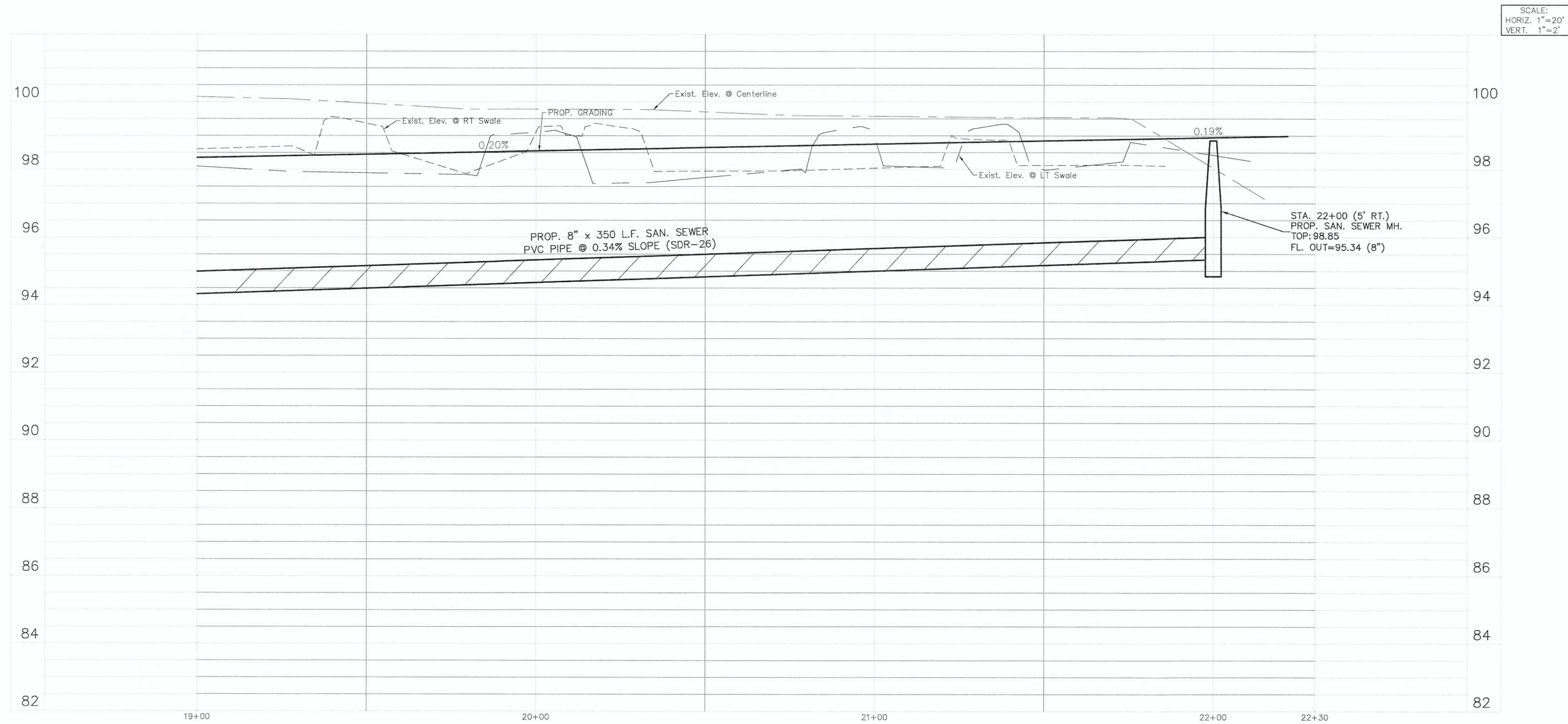
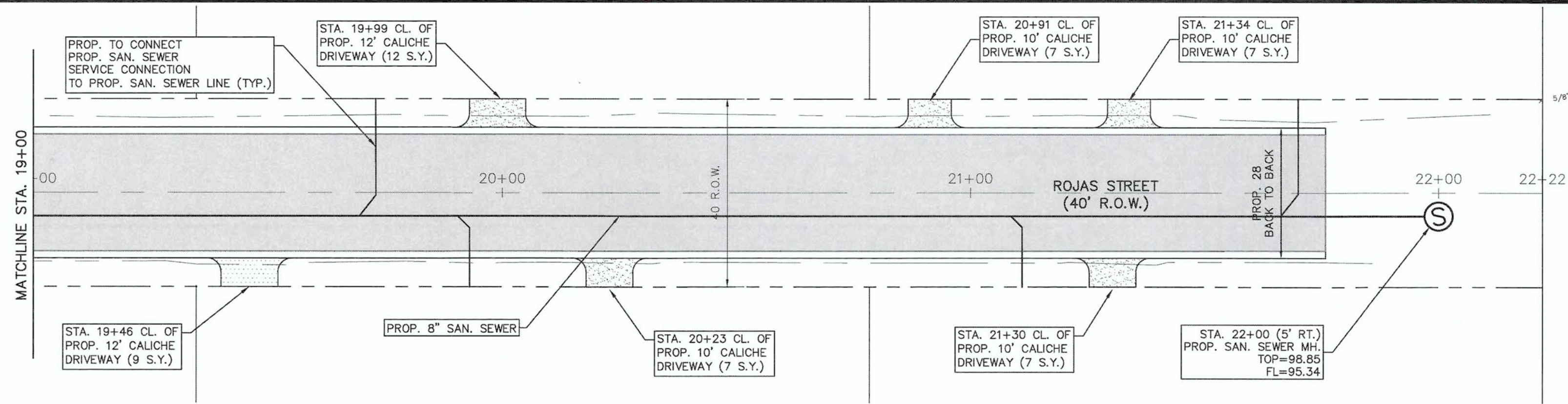
TBPLS FIRM
 REGISTRATION NO.
 10087700

Project No. P889-02
 Sheet 11 Of 21



FILE NAME: A:\GIS\2018\889-02_VETERANS BLVD. DRAINAGE PROJECT\DWG-2017\SEWER_PIP-ROJAS STREET.DWG PLOT DATE: June 3, 2021

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 Approved By: J.L.M.
 Drawn By: AR/J.Z./M.O.
 Date: JUNE 2021

NO.	REVISION	DESCRIPTION	DATE



EDINBURG, TEXAS
 VETERANS BLVD. DRAINAGE PROJECT
 PROP. SEWER-ROJAS STREET

GM GUZMAN & MUÑOZ
 ENGINEERING AND SURVEYING, INC.
 MERCEDES, TEXAS
 Phone: (956) 565-4637
 Fax: (956) 565-4656
 3020 E. Expressway 83
 Mercedes, Texas 78570

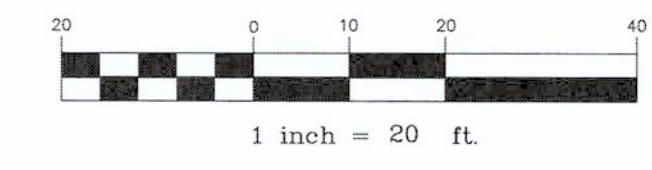
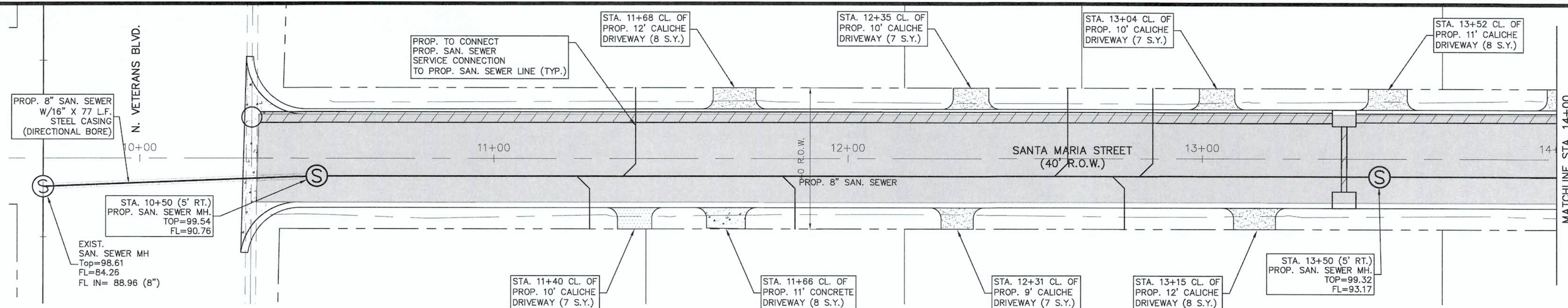
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 F-8017

TBPLS FIRM REGISTRATION NO.
 10087700

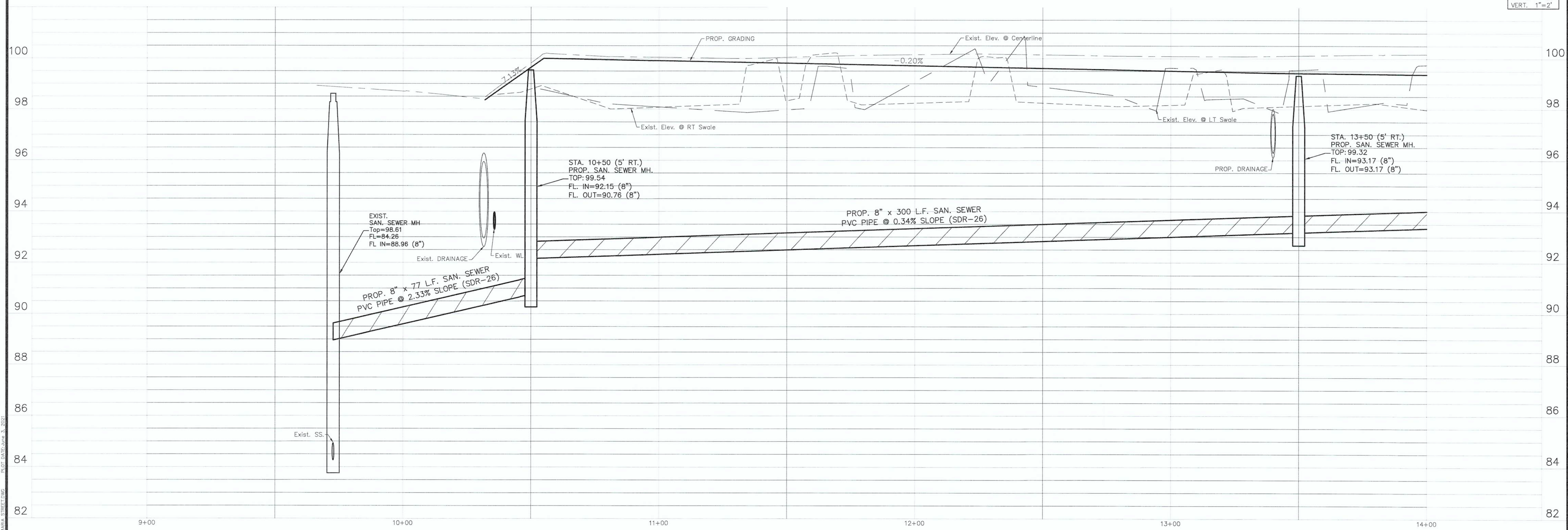
Project No. P889-02

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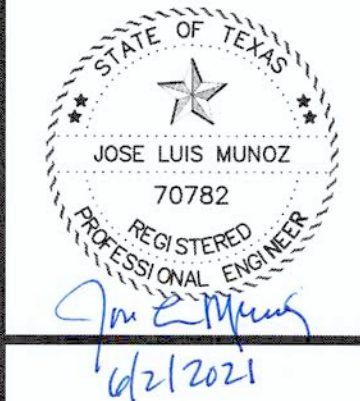


SCALE:
HORIZ. 1"=20'
VERT. 1"=2'



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Approved By: J.L.M.
Drawn By: AR/M.O.
Date: JUNE 2021

NO.	REVISION	DESCRIPTION	DATE



EDINBURG, TEXAS
VETERANS BLVD. DRAINAGE PROJECT
 PROP. SEWER-SANTA MARIA STREET

GM GUZMAN & MUÑOZ
 ENGINEERING AND SURVEYING, INC.
 MERCEDES, TEXAS

Phone: (956) 565-4637
 Fax: (956) 565-4636

2020 E. Expressway 83
 Mercedes, Texas 78570

TEXAS REGISTERED
 ENGINEERING FIRM
 F-807

TBPLS FIRM
 REGISTRATION NO.
 10087700

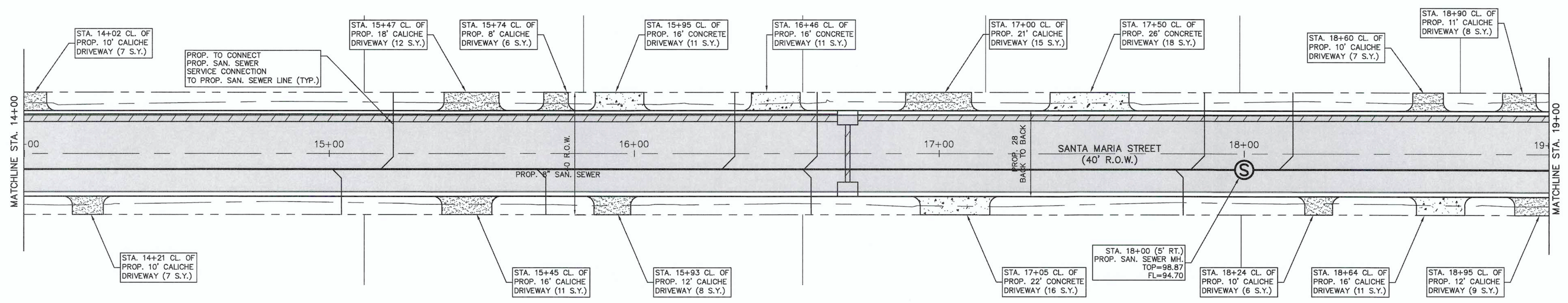
Project No. **P889-02**

Sheet **13** Of **21**

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 PLOT DATE: JUN 3, 2021
 PLOT TIME: 10:58:42 AM

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FILE NAME: Z:\0183-2019-P889-02_VETERANS_BLDG_DRAINAGE_PROJECT\DWG-2019\SEWER_PIP-SANTA MARIA STREET.DWG PLOT DATE: June 3, 2021



STA. 14+21 CL. OF PROP. 10' CALICHE DRIVEWAY (7 S.Y.)

PROP. TO CONNECT PROP. SAN. SEWER SERVICE CONNECTION TO PROP. SAN. SEWER LINE (TYP.)

STA. 15+47 CL. OF PROP. 18' CALICHE DRIVEWAY (12 S.Y.)

STA. 15+74 CL. OF PROP. 8' CALICHE DRIVEWAY (6 S.Y.)

STA. 15+95 CL. OF PROP. 15' CONCRETE DRIVEWAY (11 S.Y.)

STA. 16+46 CL. OF PROP. 15' CONCRETE DRIVEWAY (11 S.Y.)

STA. 17+00 CL. OF PROP. 21' CALICHE DRIVEWAY (15 S.Y.)

STA. 17+50 CL. OF PROP. 28' CONCRETE DRIVEWAY (18 S.Y.)

STA. 18+60 CL. OF PROP. 10' CALICHE DRIVEWAY (7 S.Y.)

STA. 18+90 CL. OF PROP. 11' CALICHE DRIVEWAY (8 S.Y.)

STA. 14+21 CL. OF PROP. 10' CALICHE DRIVEWAY (7 S.Y.)

STA. 15+45 CL. OF PROP. 16' CALICHE DRIVEWAY (11 S.Y.)

STA. 15+93 CL. OF PROP. 12' CALICHE DRIVEWAY (8 S.Y.)

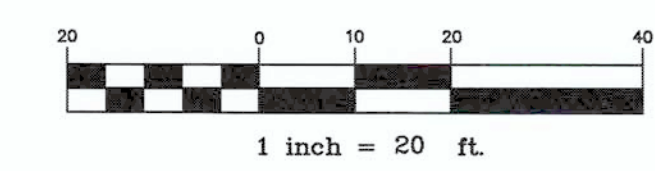
STA. 17+05 CL. OF PROP. 22' CONCRETE DRIVEWAY (16 S.Y.)

STA. 18+00 (5' RT.) PROP. SAN. SEWER MH. TOP=98.87 FL=94.70

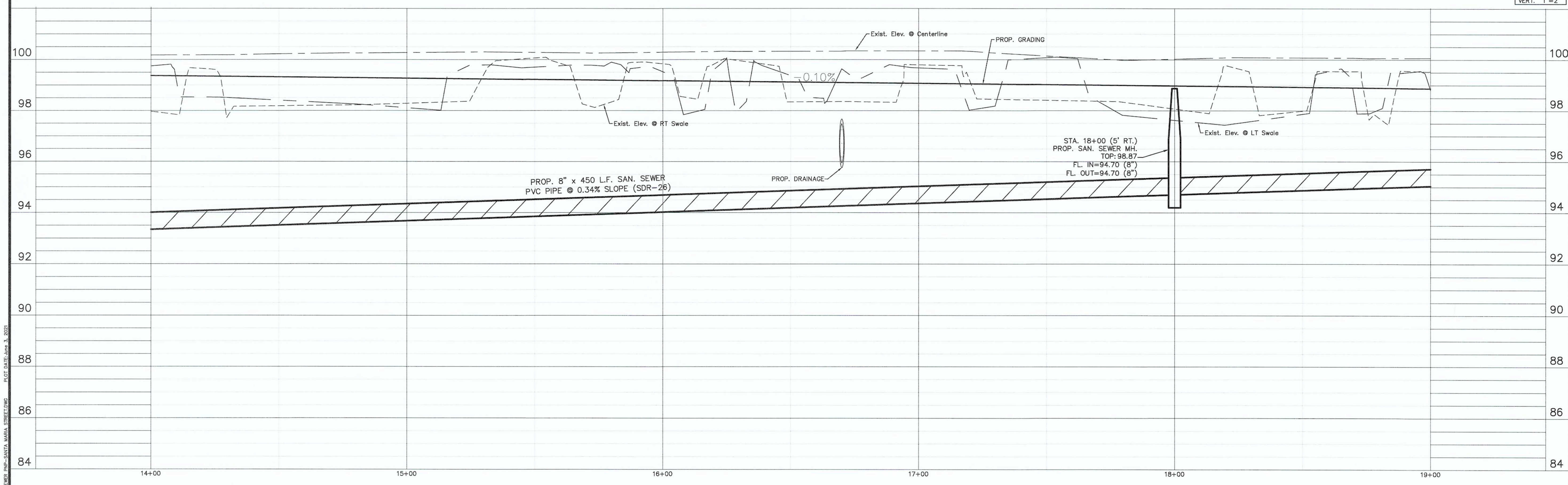
STA. 18+24 CL. OF PROP. 10' CALICHE DRIVEWAY (6 S.Y.)

STA. 18+64 CL. OF PROP. 16' CALICHE DRIVEWAY (11 S.Y.)

STA. 18+95 CL. OF PROP. 12' CALICHE DRIVEWAY (9 S.Y.)

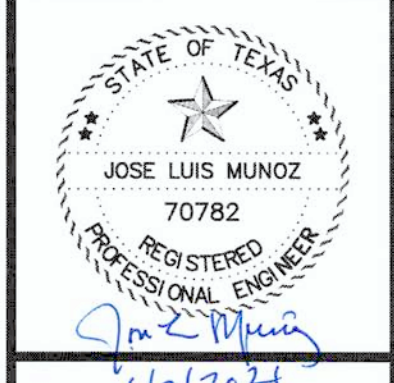


SCALE:
HORIZ. 1"=20'
VERT. 1"=2'



Checked By: J.L.M.
Approved By: J.L.M.
Drawn By: AR/M.O.
Date: JUNE 2021

NO.	DATE	REVISION DESCRIPTION



6/2/2024

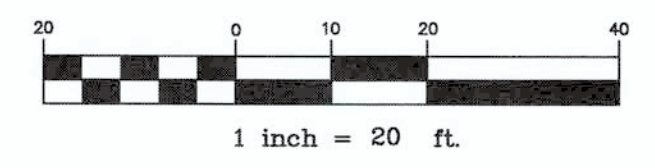
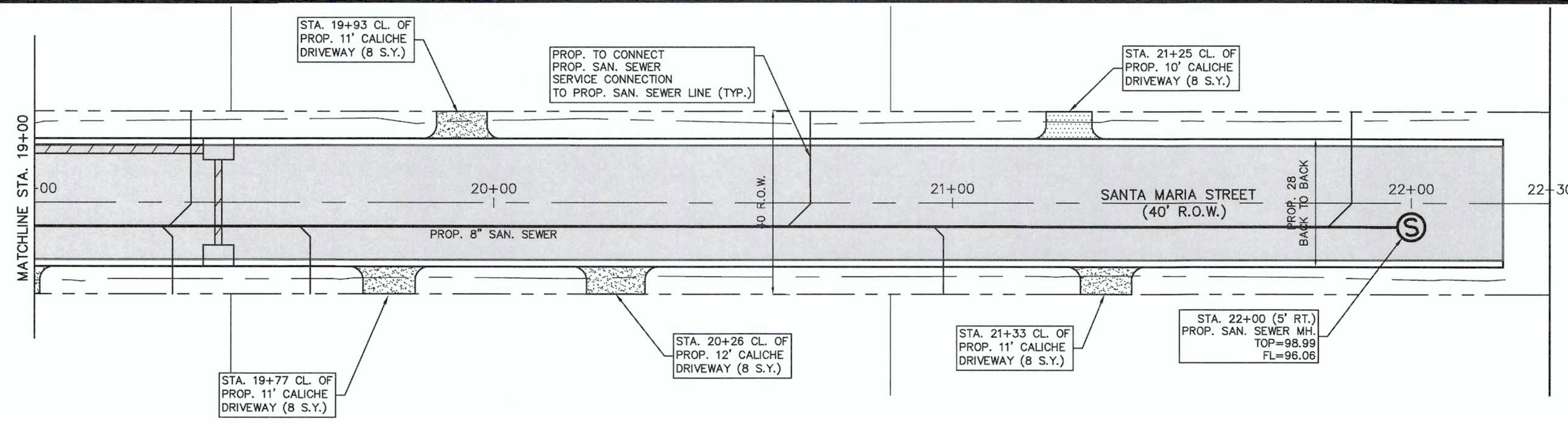
EDINBURG, TEXAS
VETERANS BLDG. DRAINAGE PROJECT
PROP. SEWER-SANTA MARIA STREET

GM GUZMAN & MUÑOZ
ENGINEERING AND SURVEYING, INC.
MERCEDDES, TEXAS
Phone: (956) 565-4637
Fax: (956) 565-4636
2020 E. Expressway 83
Mercedes, Texas 78570

TEXAS REGISTERED ENGINEERING FIRM F-8017
TBPLS FIRM REGISTRATION NO. 10087700

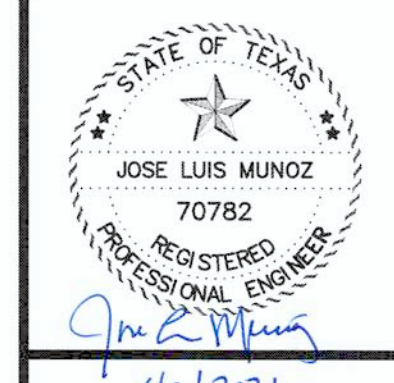
Project No. P889-02
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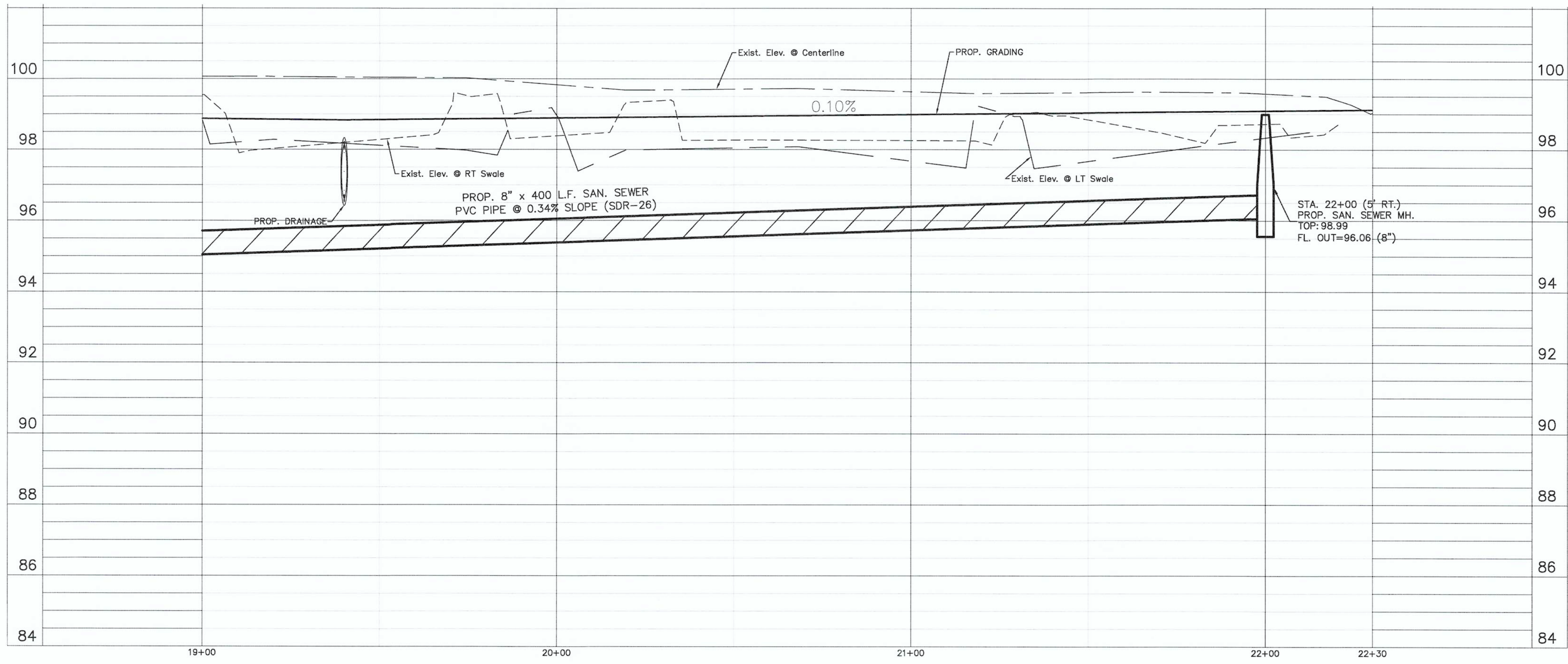
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 Approved By: J.L.M.
 Drawn By: AR/J.Z./M.O.
 Date: JUNE 2021

NO.	DATE	DESCRIPTION



6/2/2021

EDINBURG, TEXAS
 VETERANS BLVD. DRAINAGE PROJECT
 PROP. SEWER-SANTA MARIA STREET



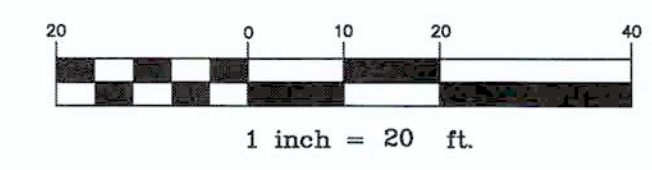
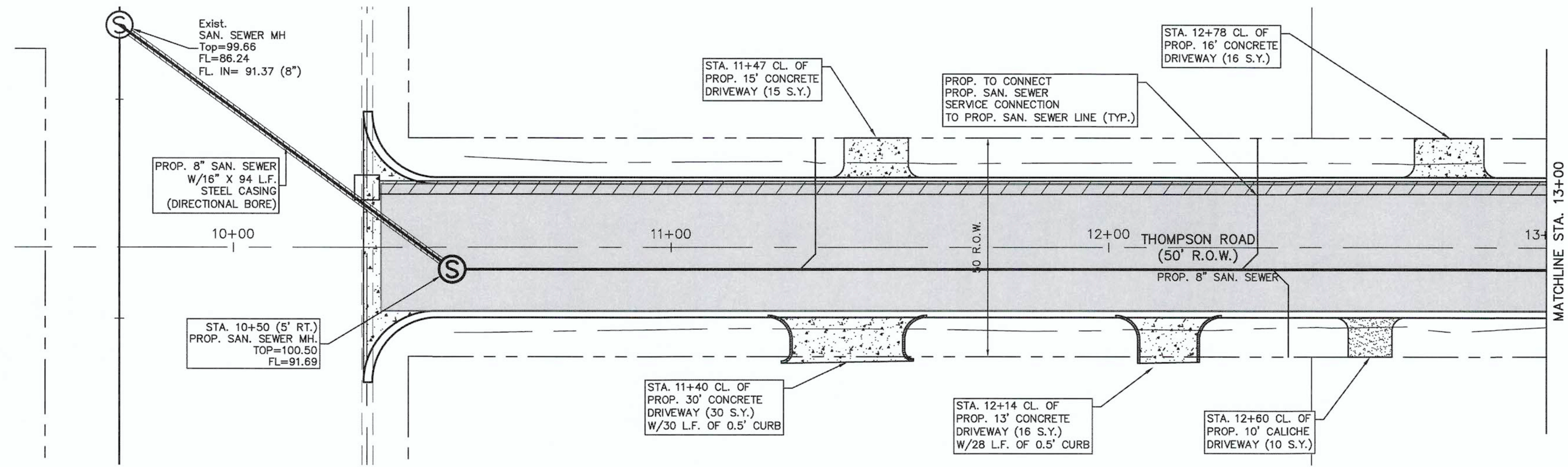
GM GUZMAN & MUÑOZ
 ENGINEERING AND SURVEYING, INC.
 MERCEDES, TEXAS
 Phone: (956) 565-4637
 Fax: (956) 565-4636
 2020 E. Expressway 83
 Mercedes, Texas 78570

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Project No. P889-02
 Sheet 15 of 21

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Checked By: J.L.M.
 Approved By: J.L.M.
 Drawn By: AR
 Date: JUNE 2021

NO.	REVISION	DATE



EDINBURG, TEXAS
VETERANS BLVD. DRAINAGE PROJECT
PROP. SEWER-THOMPSON ROAD

GM
GUZMAN & MUÑOZ
 ENGINEERING AND SURVEYING, INC.
 MERCEDDES, TEXAS
 2020 E. Expressway 83
 Mercedes, Texas 78570
 Phone: (956) 565-4637
 Fax: (956) 565-4636

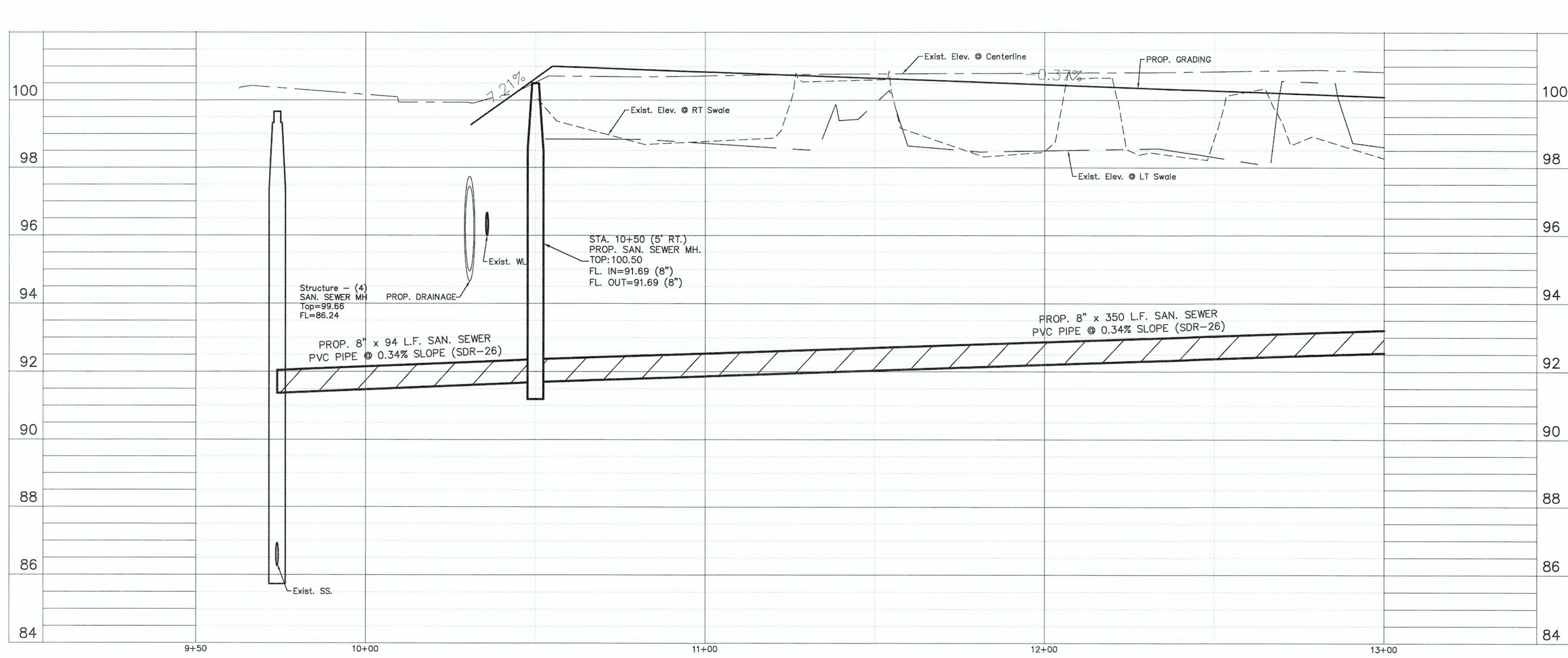
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 F-8017

TBPLS FIRM REGISTRATION NO.
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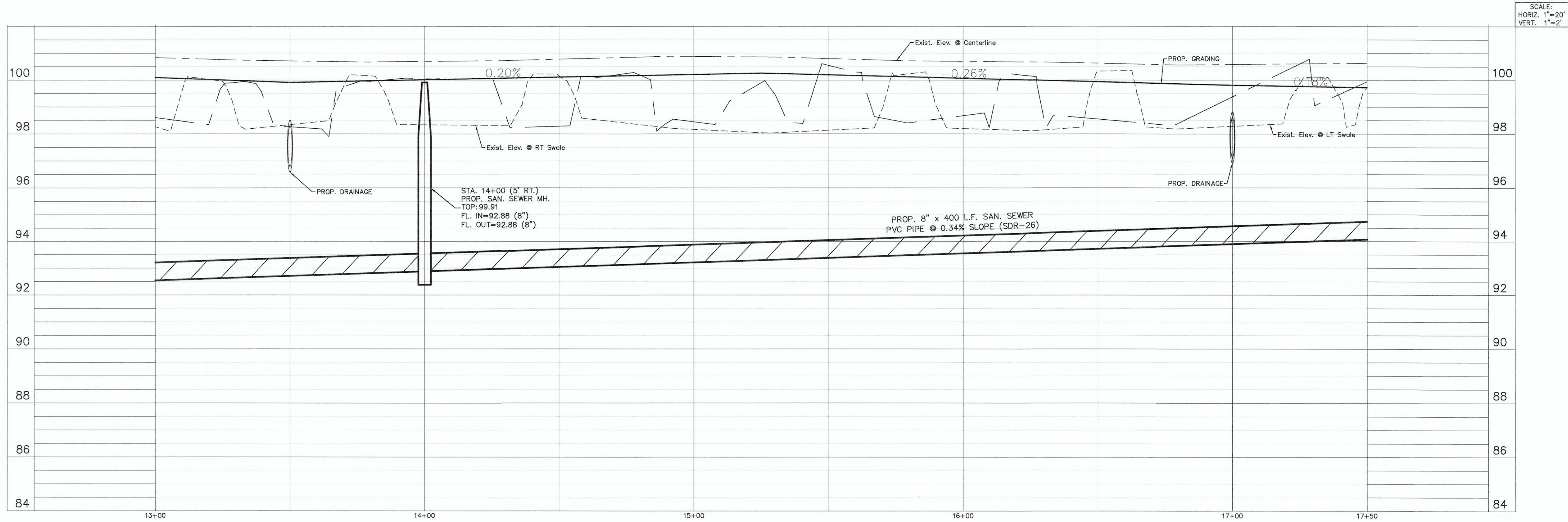
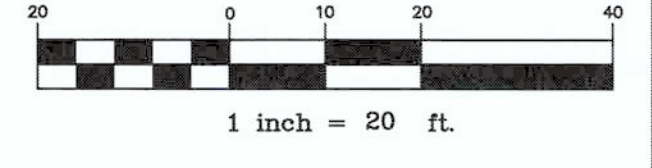
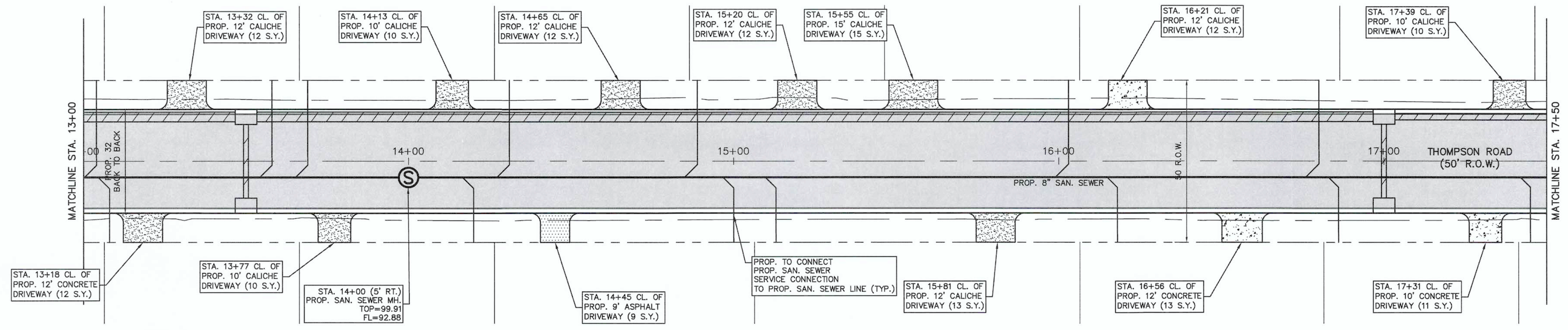
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SCALE:
 HORIZ. 1"=20'
 VERT. 1"=2'



SCALE:
HORIZ. 1"=20'
VERT. 1"=2'

Checked By: J.L.M.
Approved By: J.L.M.
Drawn By: AR
Date: JUNE 2021

NO.	DATE	DESCRIPTION



EDINBURG, TEXAS
VETERANS BLVD. DRAINAGE PROJECT
PROP. SEWER-THOMPSON ROAD

G & M
GUZMAN & MUÑOZ
ENGINEERING AND SURVEYING, INC.
MERCEDÉS, TEXAS

2020 E. Expressway 83
Mercedes, Texas 78570

Phone: (956) 565-4637
Fax: (956) 565-4636

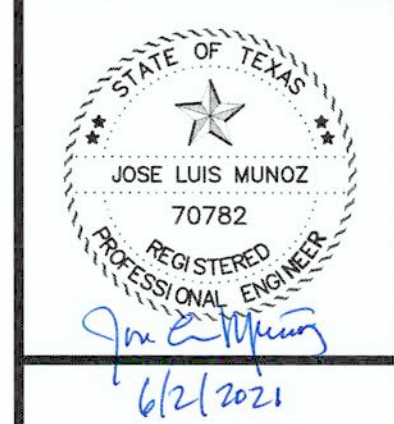
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F-8017

TBPLS FIRM
REGISTRATION NO.
10087700

Project No. P889-02

Sheet 17 Of 21

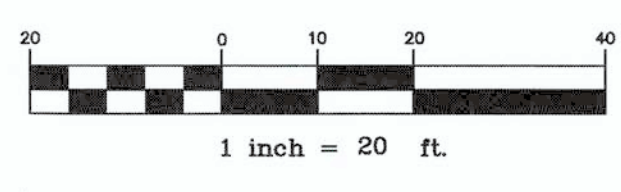
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Approved By:	J.L.M.
Drawn By:	AR
Date:	JUNE 2021
Revision:	DATE DESCRIPTION
NO.	



EDINBURG, TEXAS
VETERANS BLVD. DRAINAGE PROJECT
PROP. SEWER-THOMPSON ROAD

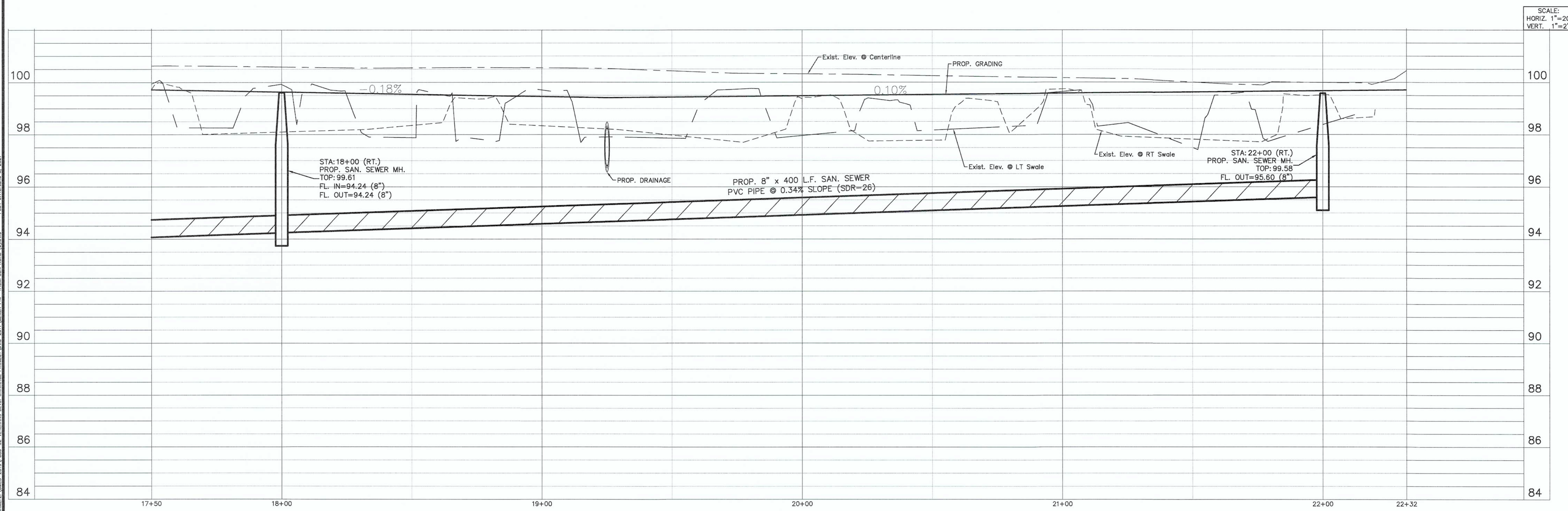
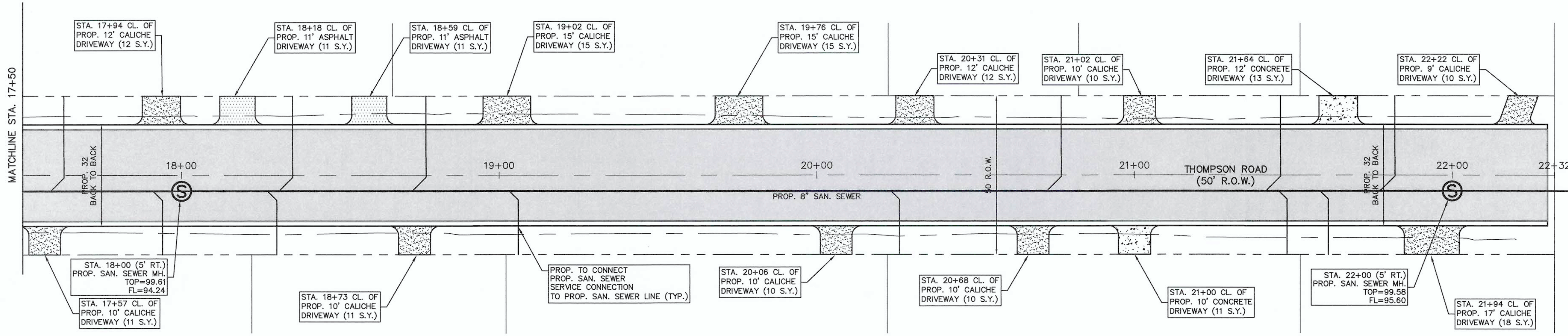
GM
GUZMAN & MUÑOZ
 ENGINEERING AND SURVEYING, INC.
 MERCEDDES, TEXAS
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 TBPLS FIRM
 REGISTRATION NO.
 10087700
 Project No. **P889-02**
 Sheet **18** Of **21**



LEGEND	
	1/2" Iron Pin Found
	Power Pole/Tel. Pole
	Guy Wire
	Overhead Powerline
	Overhead Tele Line
	Telephone Pedestal
	Telephone Warning Sign
	Underground Tele Line
	Street Sign
	Stop Sign
	Water Meter
	Water Valve
	Fire Hydrant
	Waterline
	San. Sewer Line
	Mailbox
	Tree
	Existing R.O.W.

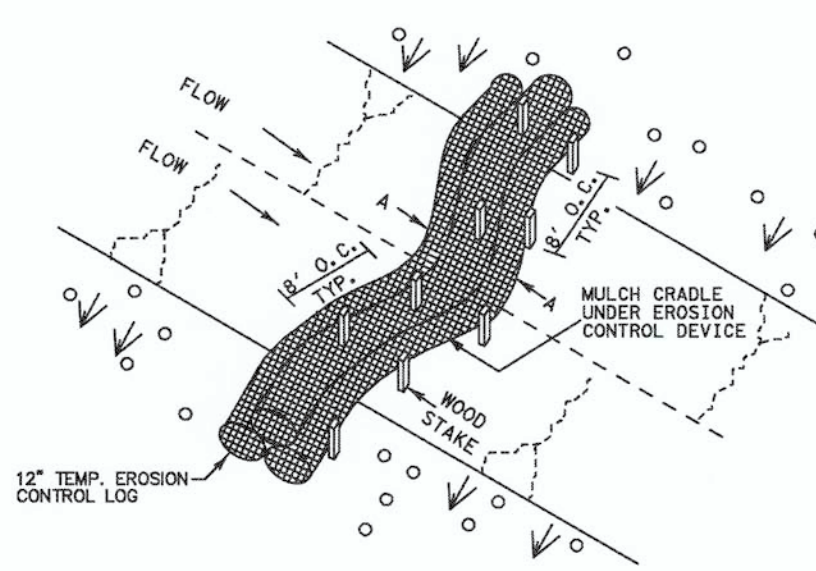
NOTE !!
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FILE NAME: Z:\DWG-2019\989-02_VETERANS BLVD_DRAINAGE_PROJECT\DWG-2019_SEWER_PIP-THOMPSON ROAD (2).DWG PLOT DATE: June 3, 2021

EROSION CONTROL GENERAL NOTES

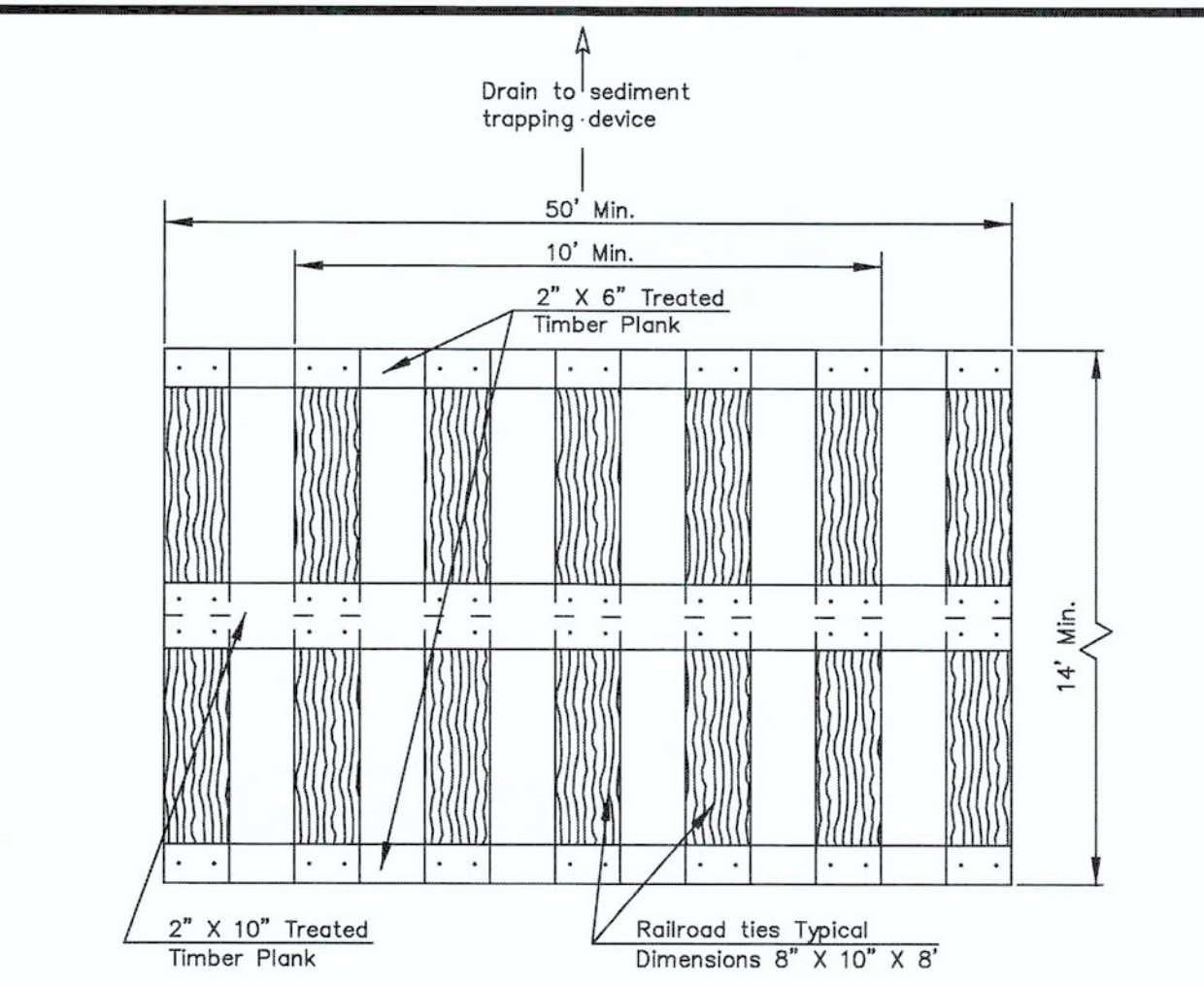
- IT IS THE INTENT OF THE INFORMATION PROVIDED ON THIS SHEET AND WITHIN THE SPECIFICATIONS TO BE USED AS THE GENERAL GUIDELINES OF THE STORM WATER POLLUTION PREVENTION PLAN FOR THIS PROJECT TO ESTABLISH A MINIMUM BASIS OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS. THE CONTRACTOR SHALL PREPARE THE STORM WATER POLLUTION PREVENTION PLAN AND BE SOLELY RESPONSIBLE FOR ITS IMPLEMENTATION. THE STORM WATER POLLUTION PREVENTION PLAN SHALL MEET THE REQUIREMENTS SET FORTH IN THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) TPDES GENERAL PERMITS FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITES PUBLISHED IN THE FEBRUARY 19, 2013, FEDERAL REGISTER.
- THE STORM WATER POLLUTION PREVENTION PLAN SHOULD ADDRESS THE FOLLOWING:
 - DEFINE THE CHARACTERISTICS OF THE SITE AND THE TYPE OF CONSTRUCTION WHICH WILL BE OCCURRING;
 - DESCRIBE THE SITE PLAN FOR THE FACILITY TO BE CONSTRUCTED;
 - DESCRIBE THE PRACTICES THAT WILL BE IMPLEMENTED TO CONTROL EROSION AND THE RELEASE OF POLLUTANTS IN STORM WATER;
 - CREATE AN IMPLEMENTATION SCHEDULE;
 - DESCRIBE THE FINAL STABILIZATION/TERMINATION DESIGN TO MINIMIZE EROSION AND PREVENT STORM WATER IMPACTS AFTER CONSTRUCTION IS COMPLETE.
- THE CONTRACTOR SHALL MAKE THE STORM WATER POLLUTION PREVENTION PLAN AVAILABLE, UPON REQUEST, TO TCEQ.
- THE CONTRACTOR MUST AMEND PLANS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE OF THE PLAN, OR WHEN THE EXISTING PLAN PROVES INEFFECTIVE. MODIFICATIONS INCLUDING DESIGN AND ALL ADDITIONAL MATERIALS AND WORK SHALL BE ACCOMPLISHED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- STABILIZATION MEASURES ARE TO BE INSPECTED AT A MINIMUM OF ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES. REPAIRS AND INADEQUACIES REVEALED BY THE INSPECTION MUST BE IMPLEMENTED WITHIN 7 CALENDAR DAYS FOLLOWING THE INSPECTION.
- AN INSPECTION REPORT THAT SUMMARIZES INSPECTION ACTIVITIES AND IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE RETAINED AND MADE PART OF THE PLAN.
- ALL CONTRACTORS AND SUBCONTRACTORS IDENTIFIED IN THE PLAN MUST CERTIFY AS TO AN UNDERSTANDING OF THE TPDES GENERAL PERMIT BEFORE CONDUCTING ANY ACTIVITY IDENTIFIED IN THE STORM WATER POLLUTION PREVENTION PLAN.
- THE CONTRACTOR SHALL ADOPT APPROPRIATE CONSTRUCTION SITE MANAGEMENT PRACTICES TO PREVENT THE DISCHARGE OF OILS, GREASE, PAINTS, GASOLINE, AND OTHER POLLUTANTS TO STORM WATER. APPROPRIATE PRACTICES CAN INCLUDE: DESIGNATING AREAS FOR EQUIPMENT MAINTENANCE AND REPAIR; REGULAR COLLECTION OF WASTE; CONVENIENTLY LOCATED WASTE RECEPTACLES; AND DESIGNATING AND CONTROLLING EQUIPMENT WASHDOWN.
- THE CONTRACTOR SHALL AMEND OR MODIFY THIS PLAN AS REQUIRED BY CONSTRUCTION MEANS, METHODS AND SEQUENCE. MODIFICATIONS SHALL NOT COMPROMISE THE INTENT OF THE REQUIREMENTS OF LAW AND THIS PLAN. MODIFICATIONS SHALL NOT BE BASIS FOR ADDITIONAL COST TO THE OWNER.
- AREAS OF CONSTRUCTION ELSEWHERE ON THE JOB SITE SHALL CONFORM TO THE DETAILS SHOWN ON THE PLANS.
- BORROW AREAS, IF EXCAVATED, SHALL BE PROTECTED AND STABILIZED UTILIZING THE PLAN DETAILS. ALL WORK SHALL CONFORM TO GOVERNMENTAL REQUIREMENTS AND BECOME PART OF THE STORM WATER POLLUTION PREVENTION PLAN (SWP3). THE WORK SHALL BE DONE BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- ALL NON-PAVED AREAS SHALL BE MULCHED AND SEEDED WITH EROSION PROTECTION IMMEDIATELY UPON COMPLETION OF FINAL GRADING. THIS INCLUDES ALL DITCHES AND EMBANKMENTS (INCLUDING ALL R-O-W). THE CONTRACTOR SHALL MAINTAIN FINAL GRADING AND KEEP SEEDED AREAS WATERED UNTIL FULLY ESTABLISHED AND ACCEPTED BY THE OWNER.
- THE CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION EXIT AT ALL TRAFFIC EXIT POINTS PRIOR TO EXITING ONTO ANY PAVED ROADWAY.
- THE CONTRACTOR SHALL CONSTRUCT A REINFORCED FILTER BARRIER (RFB) AT ALL LOCATIONS SHOWN ON PLANS. THE RFB SHALL BE CONSTRUCTED AS SHOWN ON THIS SHEET.



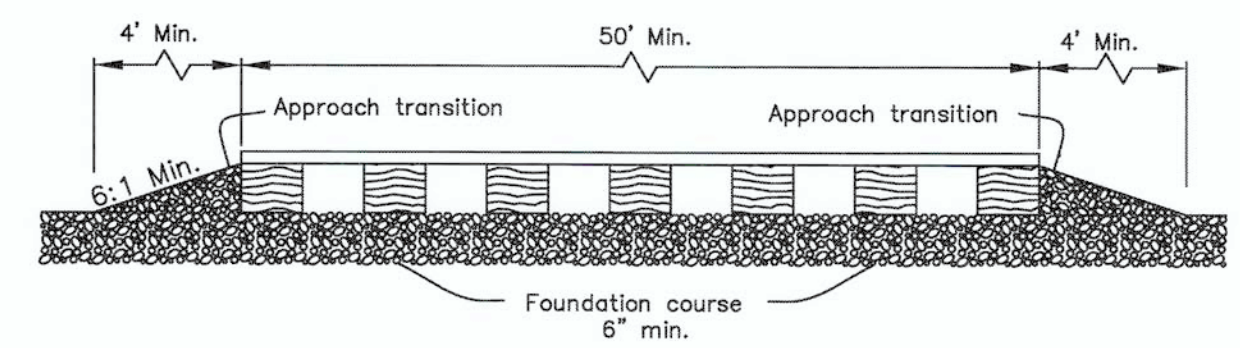
DITCH LINE SEDIMENT TRAP
NTS

GENERAL NOTES

- LENGTHS OF EROSION CONTROL LOGS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS REQUIRED FOR THE PURPOSE INTENDED. MAXIMUM LENGTH OF LOGS SHALL BE 30' FOR 12" DIAMETER LOGS
- UNLESS OTHERWISE DIRECTED, USE BIODEGRADABLE OR PHOTODEGRADABLE CONTAINMENT MESH ONLY WHERE LOG WILL REMAIN IN PLACE AS PART OF A VEGETATIVE SYSTEM. FOR TEMPORARY INSTALLATIONS, USE RECYCLABLE CONTAINMENT MESH.
- STUFF LOGS WITH SUFFICIENT FILTER MATERIAL TO ACHIEVE DENSITY THAT WILL HOLD SHAPE WITHOUT EXCESSIVE DEFORMATION.
- STAKES SHALL BE 2" X 2" WOOD 4' LONG, EMBEDDED SUCH THAT 2" PROTRUDES ABOVE LOG.
- COMPOST CRADLE MATERIAL IS INCIDENTAL AND WILL NOT BE PAID FOR SEPARATELY.



PLAN

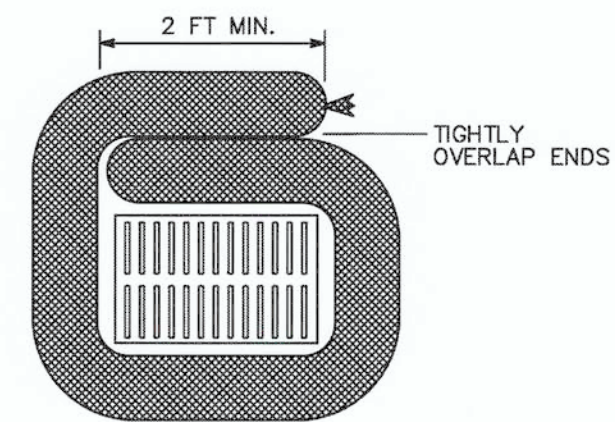


PROFILE

CONSTRUCTION ENTRANCE AND EXIT
NTS

DROP INLETS AND OTHER LOCATIONS
12" DIAMETER LOGS

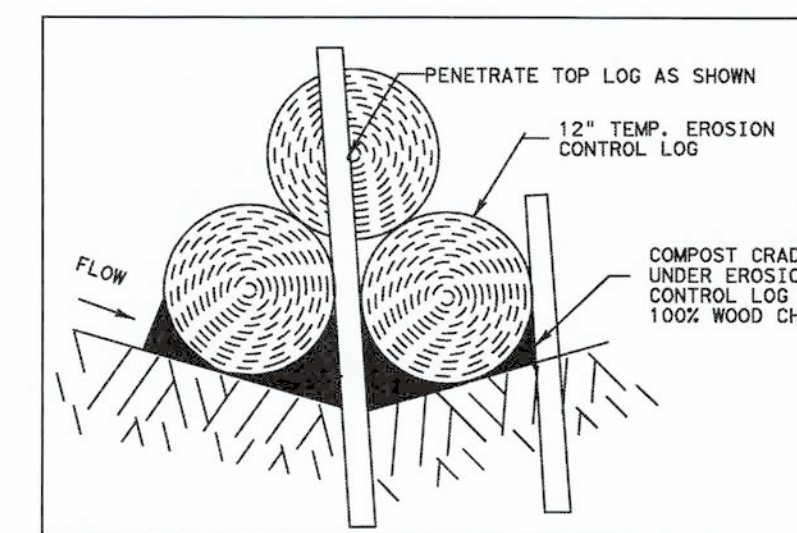
ITEM 1122-2048 BIODEGRD EROSN CONT LOGS(12" DIA)INSTALL LF



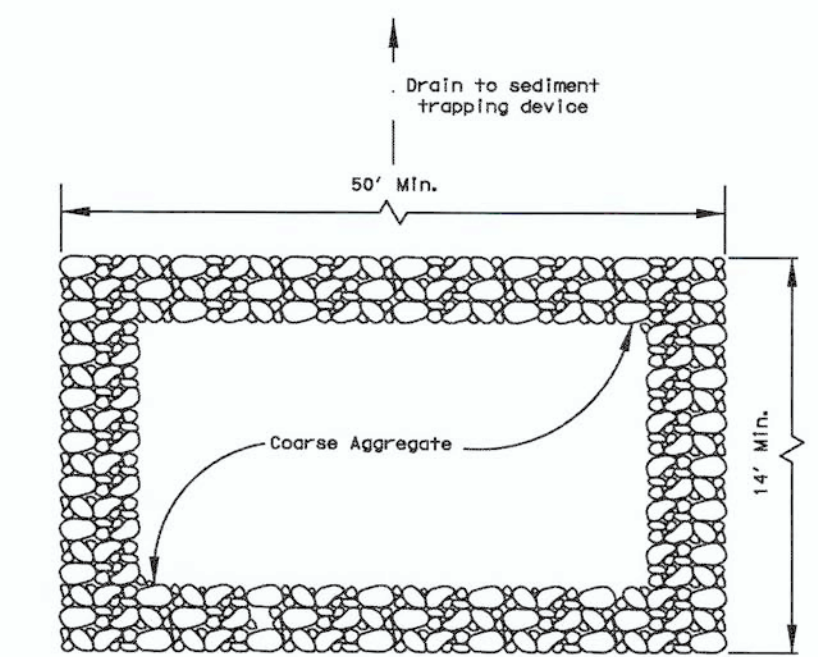
DROP INLETS
NTS

DROP INLETS
NTS

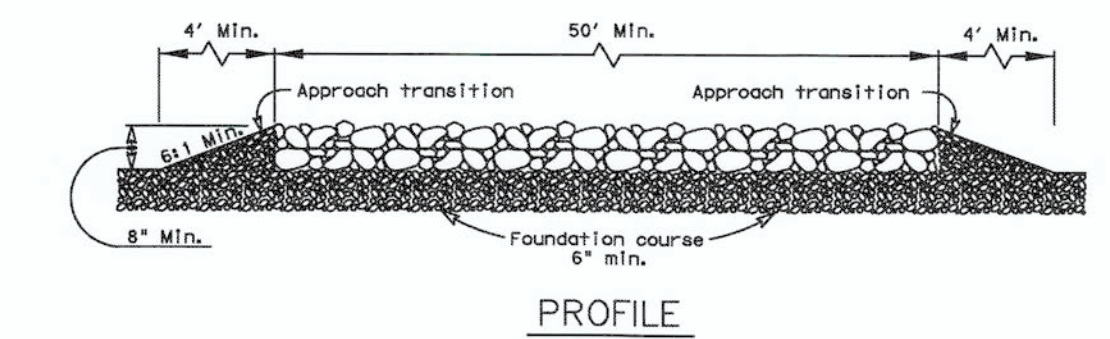
MATERIAL REQUIREMENTS
FILL:
USE 100% SHREDDED MULCH OR OTHER NON-COMPOST BIODEGRADABLE MATERIAL AS FILL FOR LOGS. NO COMPOST OR FINES. DO NOT USE MATERIAL WHICH PROHIBITS WATER INFILTRATION.
LOG MESH:
USE MESH WITH 1/2" OPENINGS OR LARGER. MESH MUST ALLOW WATER INFILTRATION BUT ALSO HOLD FILL MATERIAL IN PLACE.



DITCH LINE SEDIMENT TRAP A-A
NTS

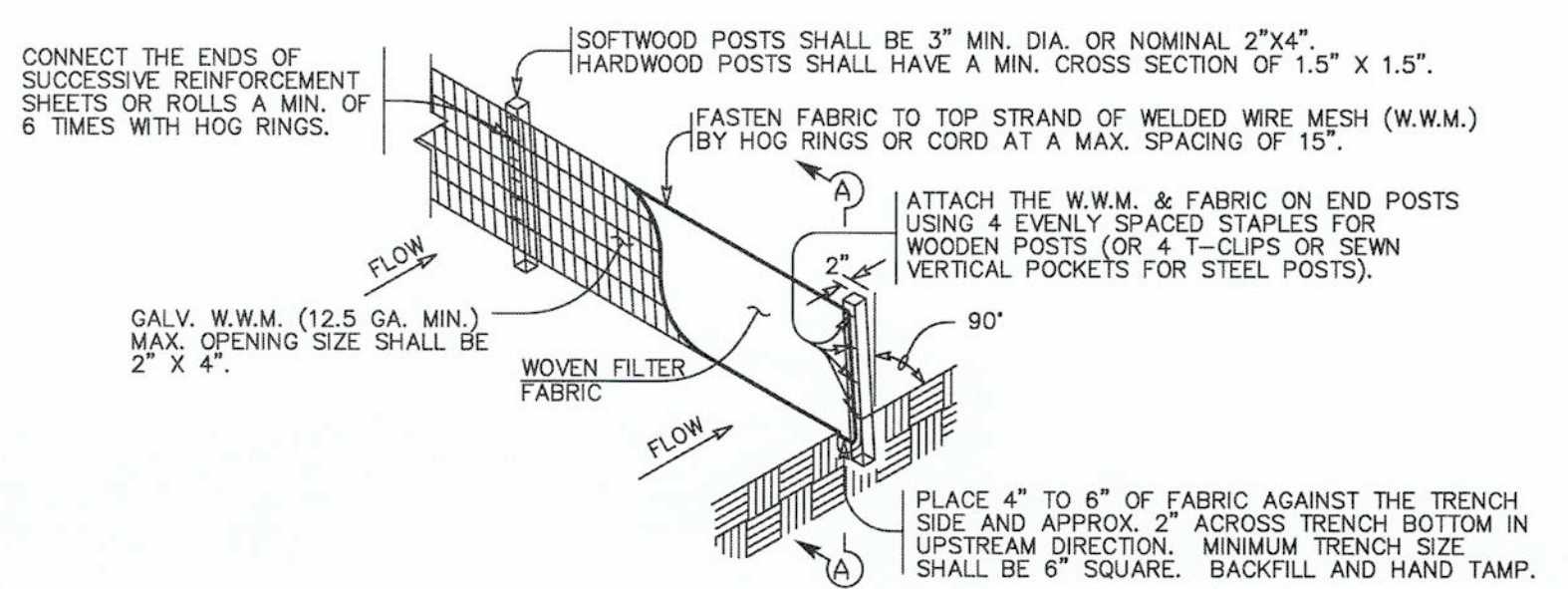


PLAN



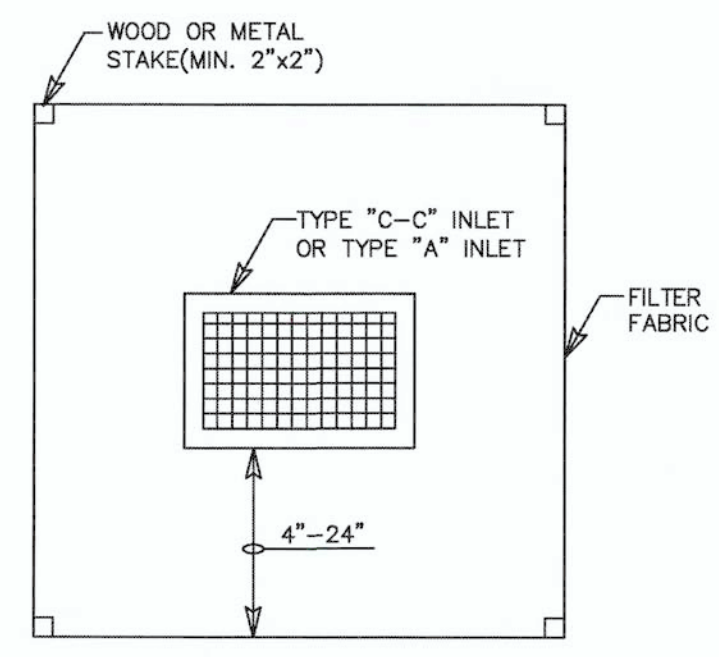
PROFILE

CONSTRUCTION EXIT (TYPE 1)
NTS



TEMPORARY REINFORCED FILTER BARRIER (RFB)
N.T.S.

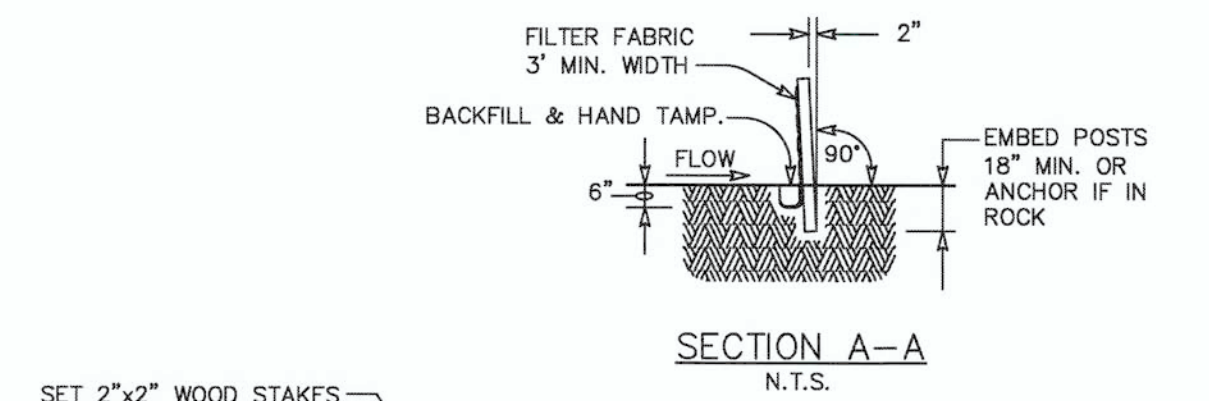
SEDIMENT BASIN & TRAP USAGE GUIDELINES
A SEDIMENT TRAP (EROSION CONTROL LOG) MAY BE USED TO FILTER SEDIMENT OUT OF RUNOFF DRAINING FROM AN UNSTABILIZED AREA.
TRAPS:
THE DRAINAGE AREA FOR A SEDIMENT TRAP SHOULD NOT EXCEED 5 ACRES. THE TRAP CAPACITY SHOULD BE 1800 CF/ACRE (0.5" OVER THE DRAINAGE AREA).
SEDIMENT TRAPS SHOULD BE PLACED IN THE FOLLOWING LOCATIONS:
1. WITHIN DRAINAGE DITCHES SPACED AS NEEDED OR MIN. 500' ON CENTER
2. IMMEDIATELY PRECEDING DITCH INLETS
3. JUST BEFORE THE DRAINAGE ENTERS A WATER COURSE
4. JUST BEFORE THE DRAINAGE LEAVES THE RIGHT OF WAY
THE TRAP SHOULD BE CLEANED WHEN THE CAPACITY HAS BEEN REDUCED BY OR THE SEDIMENT HAS ACCUMULATED TO A DEPTH OF 1', WHICHEVER IS LESS.



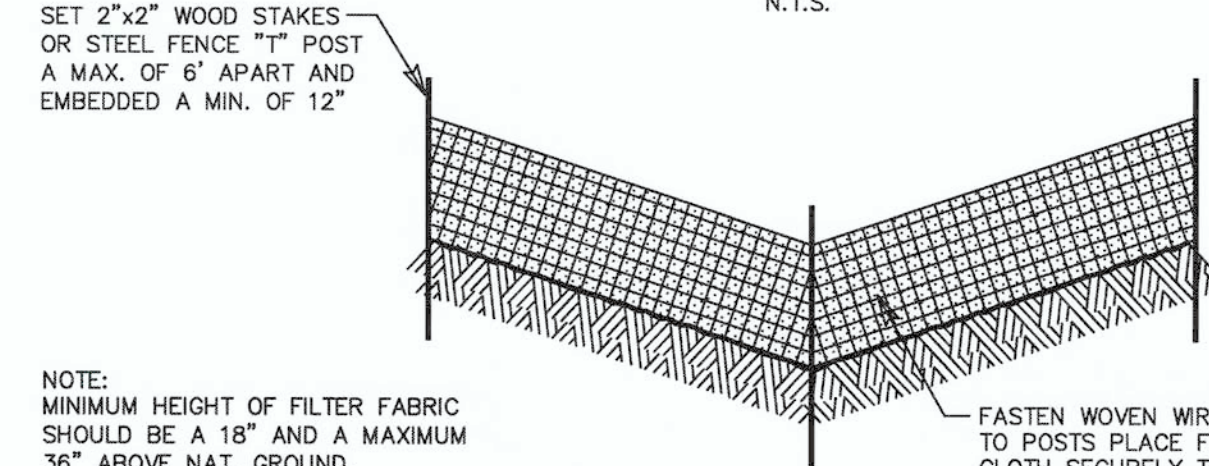
SILT FENCE PROTECTION BARRIER
NTS

PLANS SHEET LEGEND

- DI-ST DROP INLET SEDIMENT TRAP
- DL-ST DITCH LINE SEDIMENT TRAP
- BOCI-ST BACK OF CURB INLET SEDIMENT TRAP
- ROW-ST RIGHT OF WAY SEDIMENT TRAP
- CI-ST CURB INLET SEDIMENT TRAP



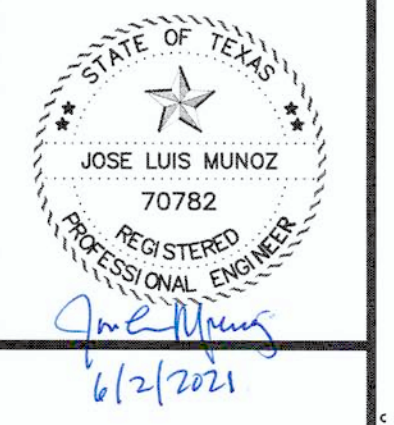
SECTION A-A
N.T.S.



"V" DITCH SECTION
NTS

NOTE:
MINIMUM HEIGHT OF FILTER FABRIC SHOULD BE A 18" AND A MAXIMUM 36" ABOVE NAT. GROUND.
WHEN 2 SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED 6" AT THE POST AND FOLDED.

Checked By:	J.L.M.
Approved By:	J.L.M.
Drawn By:	A.R./J.H.
Date:	JUNE 2021
NO.	
REVISION:	
DATE	
DESCRIPTION	

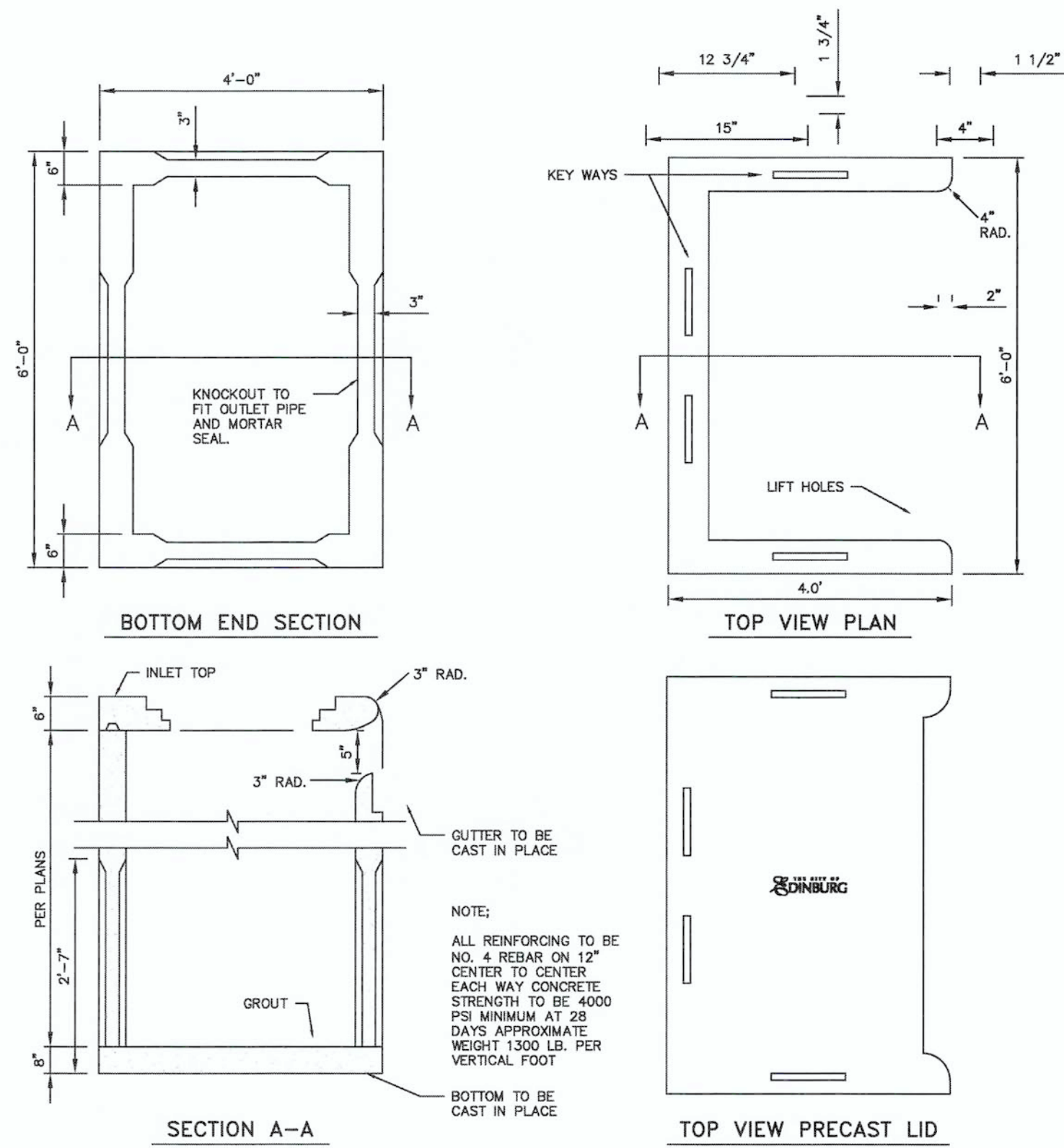


EDINBURG, TEXAS
VETERANS BLVD. DRAINAGE PROJECT
EROSION CONTROL

GJM GUZMAN & MUÑOZ
ENGINEERING AND SURVEYING, INC.
MERCEDDES, TEXAS
Phone: (956) 565-4637
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2020 E. Expressway 83
Merceddes, Texas 78570

TEXAS REGISTERED ENGINEERING FIRM
F-8017
TBPFS FIRM REGISTRATION NO. 10087700
Project No. P889-02
Sheet 19 Of 21

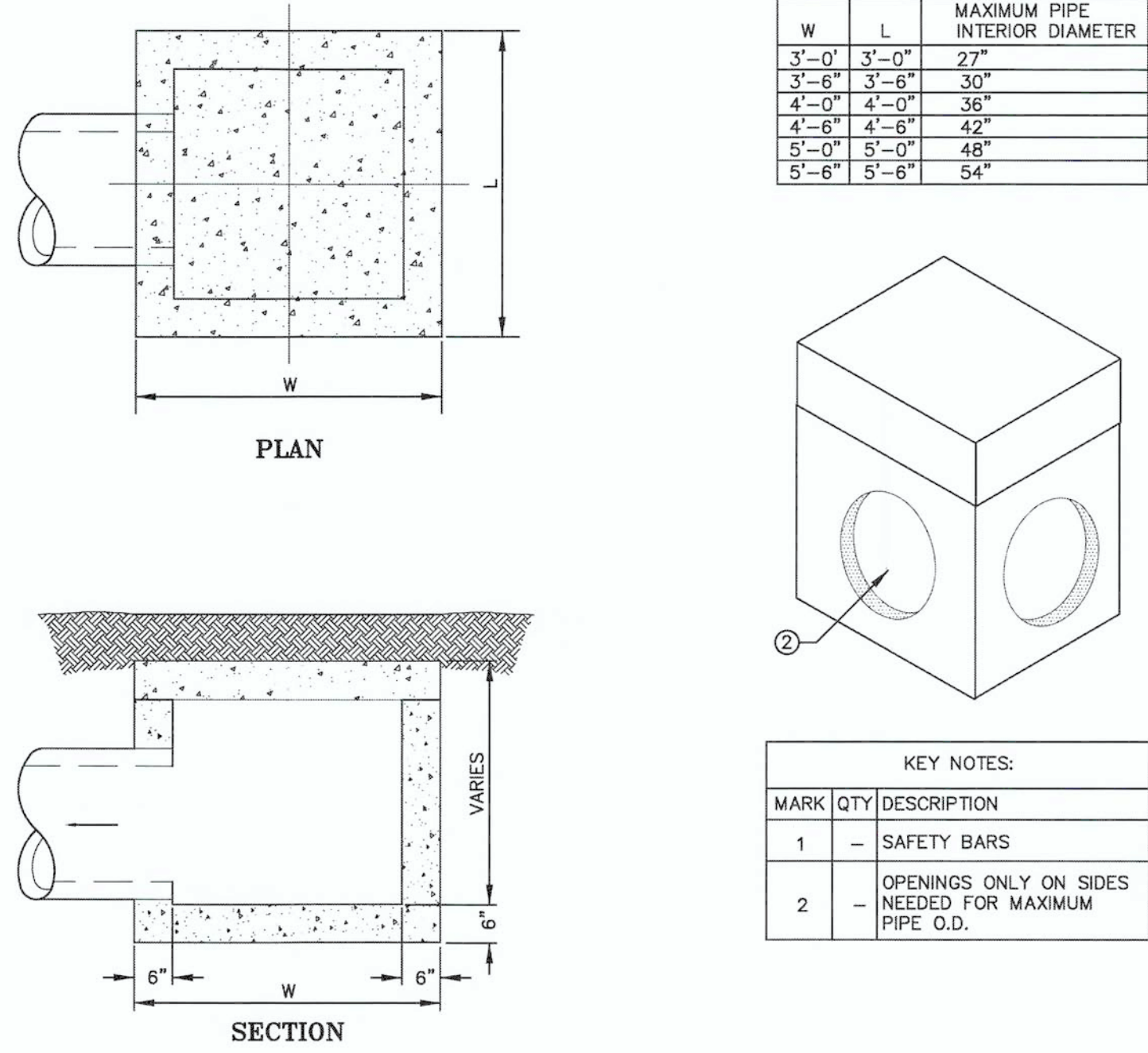
FILE NAME: Z:\GAMES-2010\9889-02_VETERANS_BLDG_DRAINAGE_PROJECT\DWG-2017\19-EROSION_CONTROL.DWG PLOT DATE: June 3, 2021



PRECAS TYPE "A" INLET - DETAILS
N.T.S.

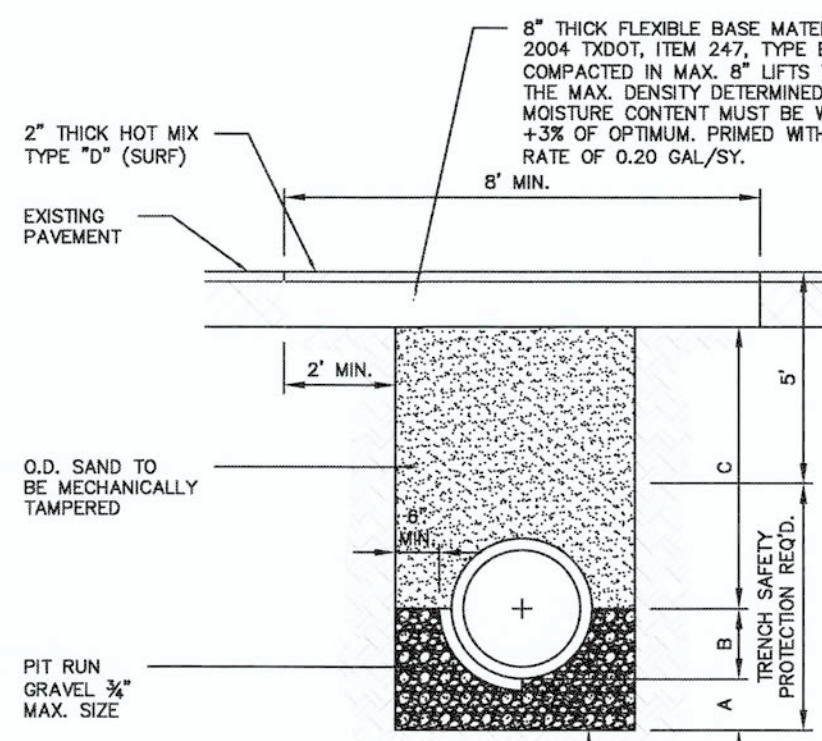
FLEXIBLE BASE (TYPE E GRADE 4) SHALL CONFORM TO THE FOLLOWING REQUIREMENTS, PRIOR TO THE ADDITION OF LIME:

Retained on Sq. Sieve	Percent Required
2"	0
1/2"	20 - 60
No. 4	40 - 75
No. 40	70 - 90
Max. Pl:	15
Max. Wet Ball Pl:	15
Wet Ball Mill Max Amount	50



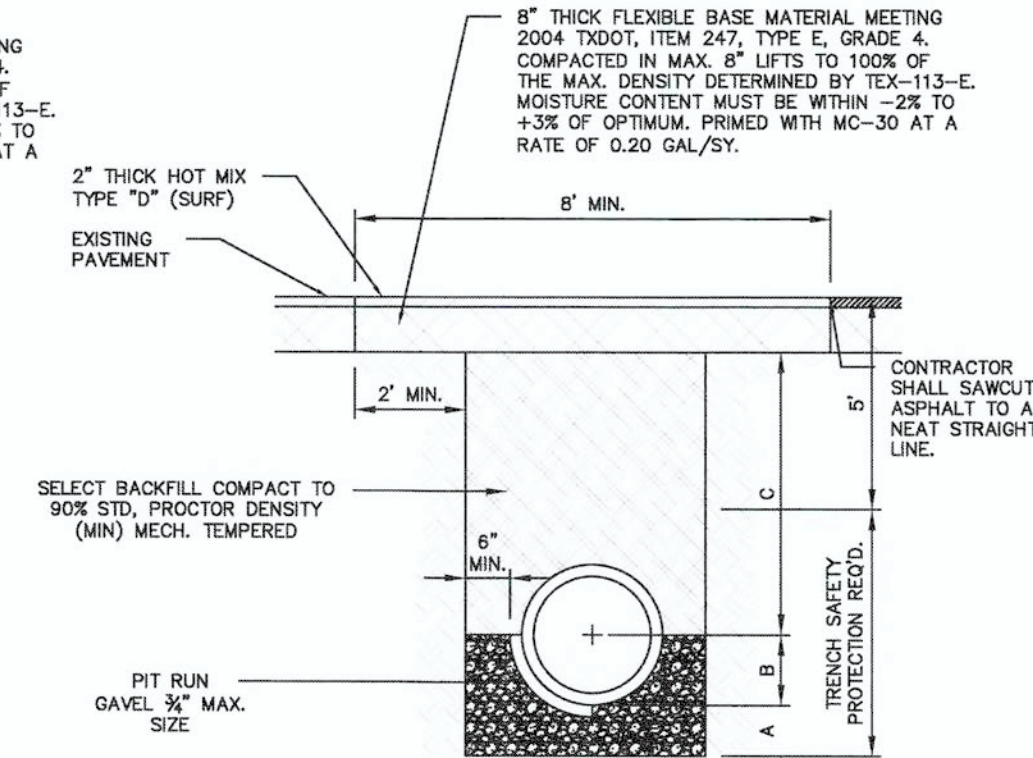
JUNCTION BOX DETAIL
N.T.S.

- NOTES:
- WHEN UTILITY LOCATED WITHIN CITY ROW, ALL BACKFILL IS SUBJECT TO INSPECTION, TESTING AND APPROVAL BY THE CITY ENGINEER'S OFFICE
 - ALL EXISTING STREET CROSSING SHALL REQUIRE SAND BACKFILL OF ENTIRE TRENCH



STANDARD PIPE BEDDING (MAIN ONLY)

- UNDER EXISTING PAVEMENT OR PROP. PAVEMENT
- GRAVEL (3/4" MAX. SIZE) BEDDING PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE. (MIN. THICKNESS = 6")
 - GRAVEL BACK FILL PLACED AFTER PIPE IS LAID FROM BOTTOM OF PIPE TO SPRING LINE OF PIPE. (4" LIFTS, MECH. TAMPED).
 - FILL TRENCH WITH SAND (12" LIFTS, MECH. TAMPED).
- FOUNDATION PREPARATION (WELLPONTS, GRAVEL AND/OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE.
- BACK FILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY. THE THICKNESS OF EACH LOOSE LAYER SHALL BE SAND, APPROVED SITE SOIL OR OTHER APPROVED SUBSTITUTE.

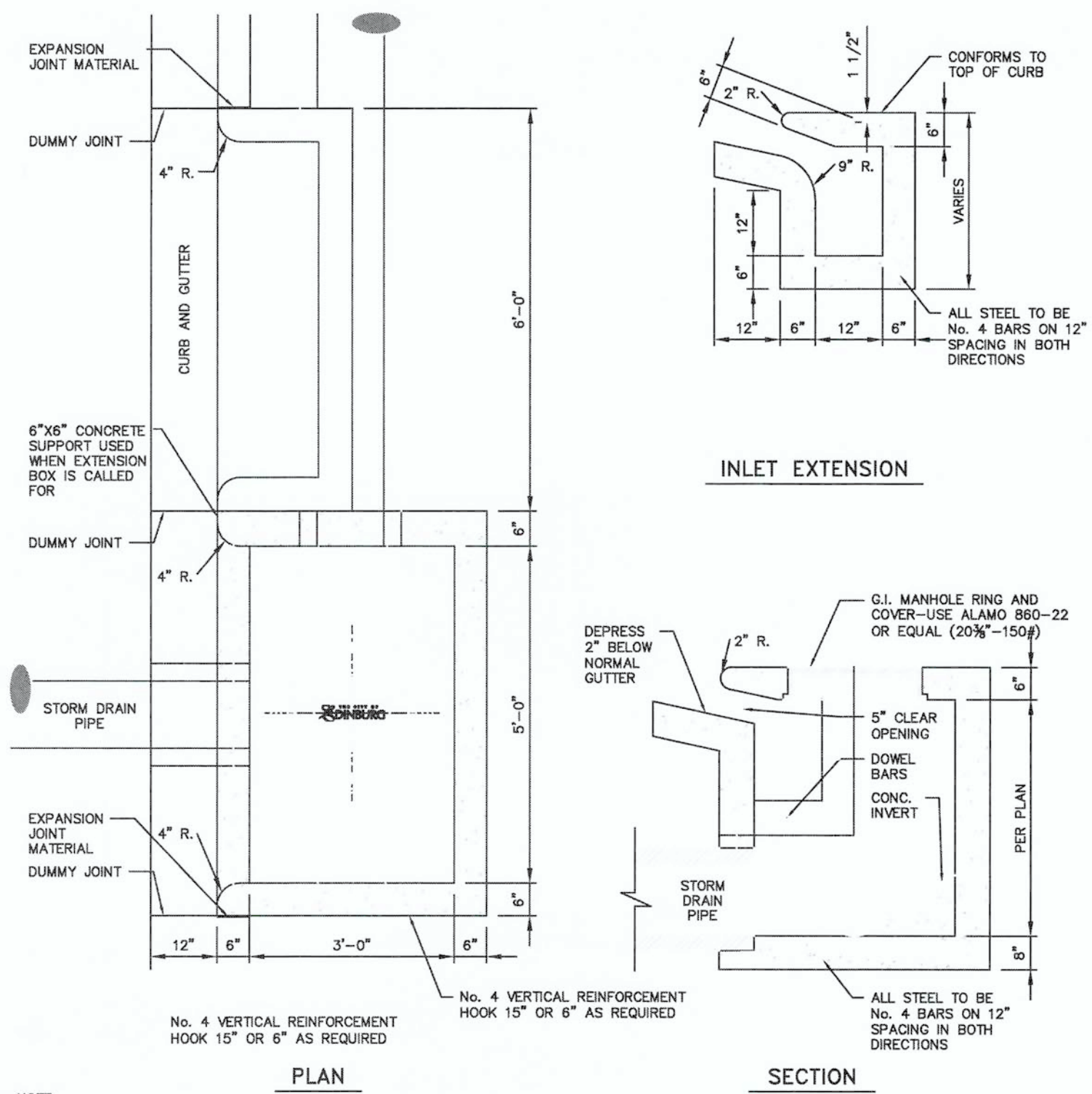


STANDARD PIPE BEDDING

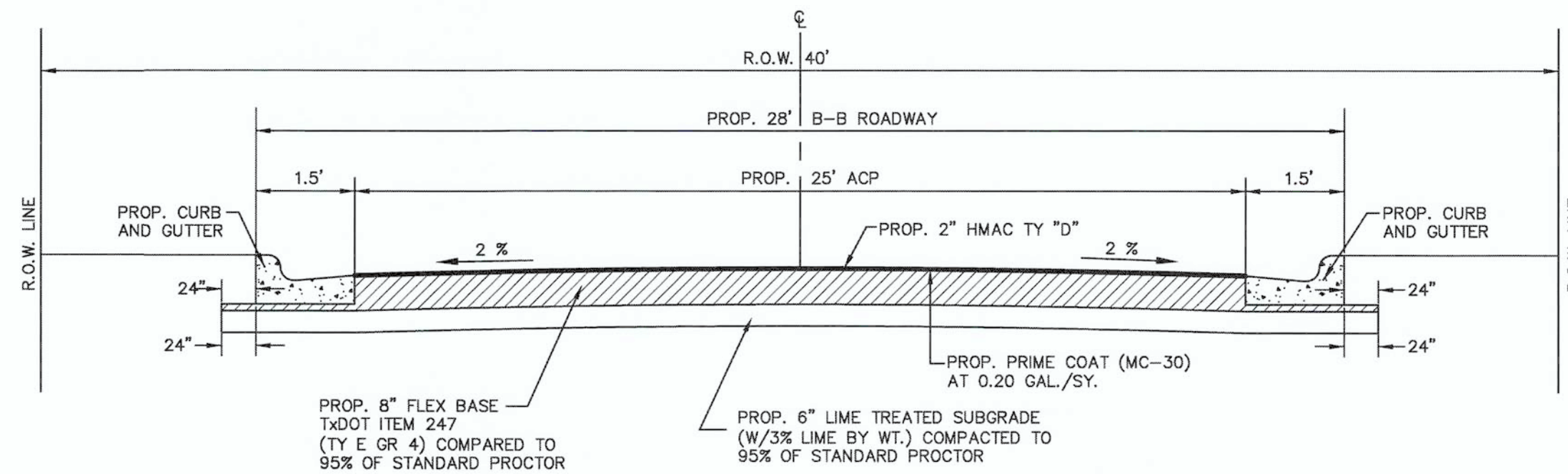
- UNDER EXISTING PAVEMENT OR PROP. PAVEMENT
- GRAVEL (3/4" MAX. SIZE) BEDDING PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE. (MIN. THICKNESS = 6")
 - GRAVEL BACK FILL PLACED AFTER PIPE IS LAID FROM BOTTOM OF PIPE TO SPRING LINE OF PIPE. (4" LIFTS, MECH. TAMPED).
 - FILL TRENCH W/SELECT BACKFILL (P<20), W/12" LIFTS COMPACT TO 95% STD. PROCTOR
- FOUNDATION PREPARATION (WELLPONTS, GRAVEL AND/OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE.
- BACK FILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY. THE THICKNESS OF EACH LOOSE LAYER SHALL BE SAND, APPROVED SITE SOIL OR OTHER APPROVED SUBSTITUTE.

STORM SEWER TYPICAL PIPE BEDDING AND TRENCH BACKFILL DETAIL

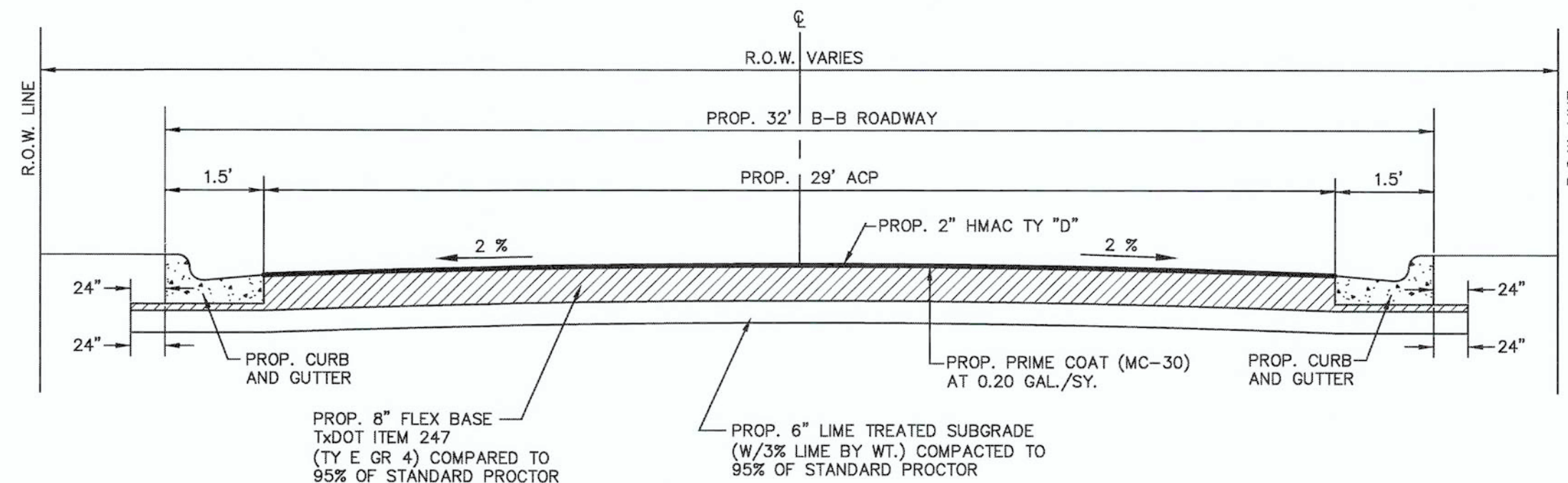
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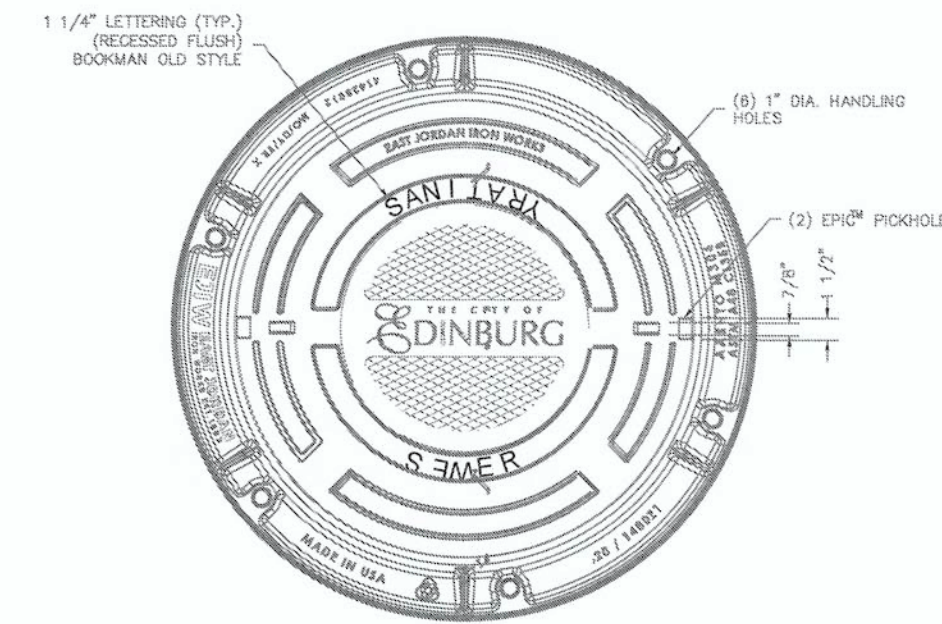
TYPE "A" INLET WITH EXTENSION - DETAILS
N.T.S.



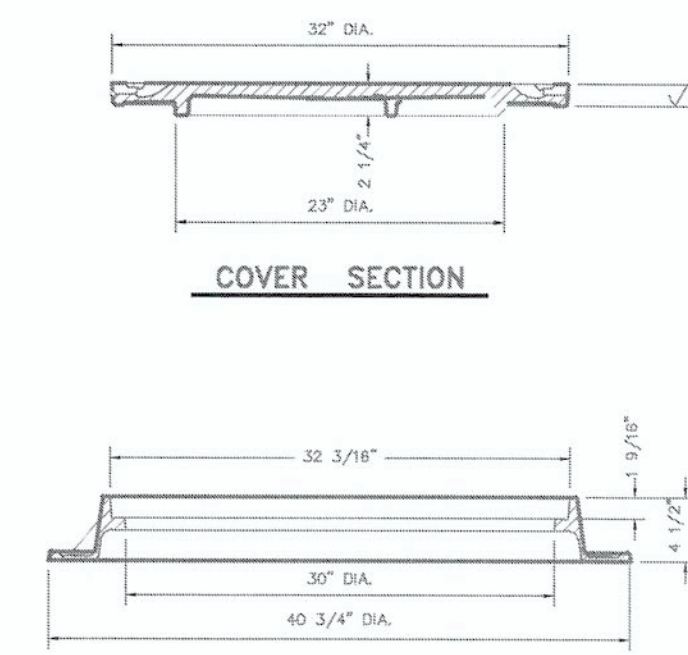
TYPICAL PAVEMENT CROSS SECTION (A-A)
28' B-B



TYPICAL PAVEMENT CROSS SECTION (A-A)
32' B-B



COVER SECTION

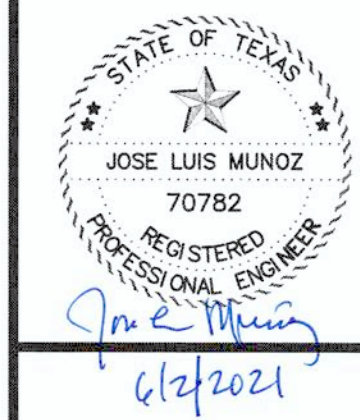


FRAME SECTION

CITY STANDARD ROADWAY MANHOLE RING AND COVER CASTING DETAIL
N.T.S.

Checked By: J.L.M.
Approved By: J.L.M.
Drawn By: A.R./J.H.
Date: JUNE 2021

NO.	DATE	REVISION/DESCRIPTION



EDINBURG, TEXAS
VETERANS BLVD. DRAINAGE PROJECT
DRAINAGE AND PAVING DETAILS

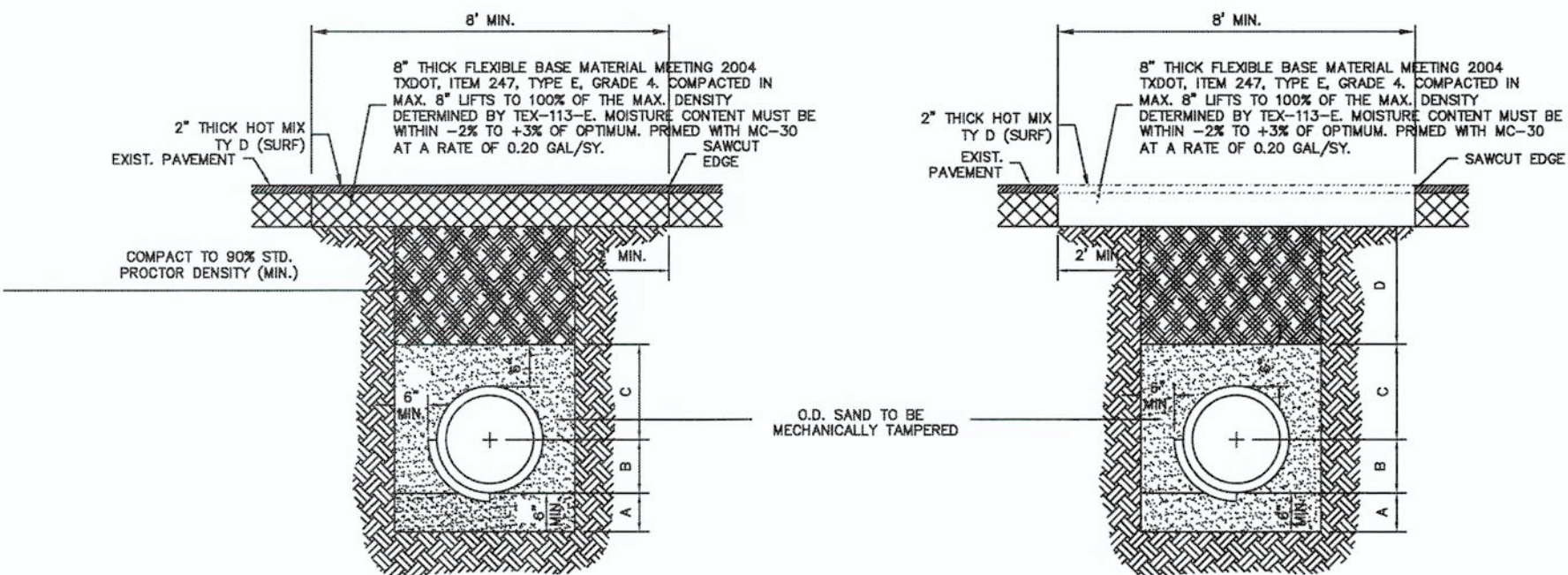
G & M
GUZMAN & MUÑOZ
ENGINEERING AND SURVEYING, INC.
MERCEDRES, TEXAS
Phone: (956) 365-4637
Fax: (956) 365-4636

TEXAS REGISTERED ENGINEERING FIRM
REGISTRATION NO. F-807
TBPLS FIRM REGISTRATION NO. 10087700

Project No. P889-02
Sheet 20 of 21

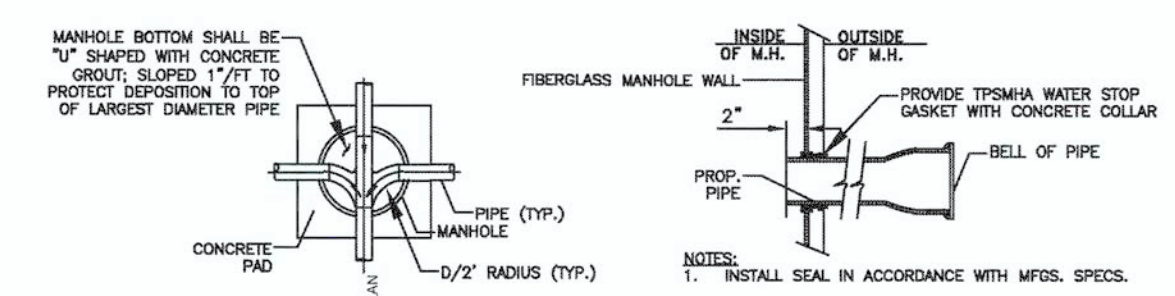
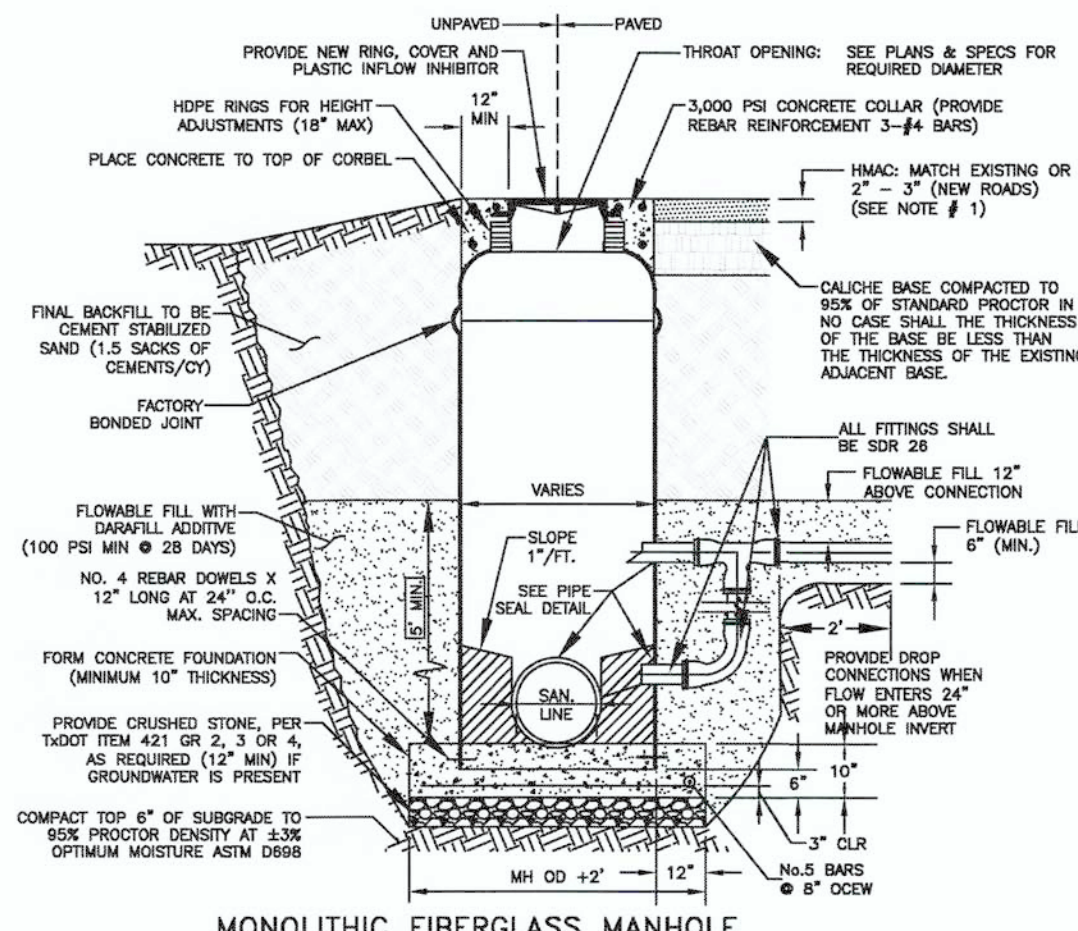
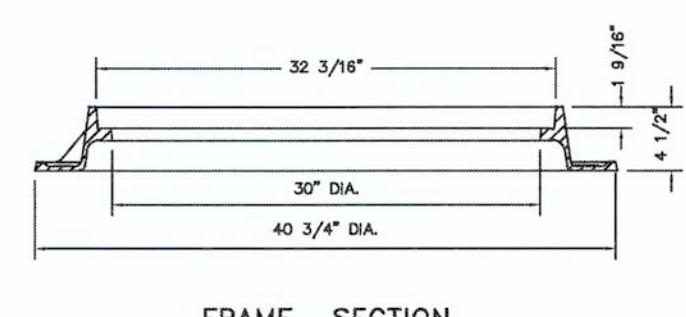
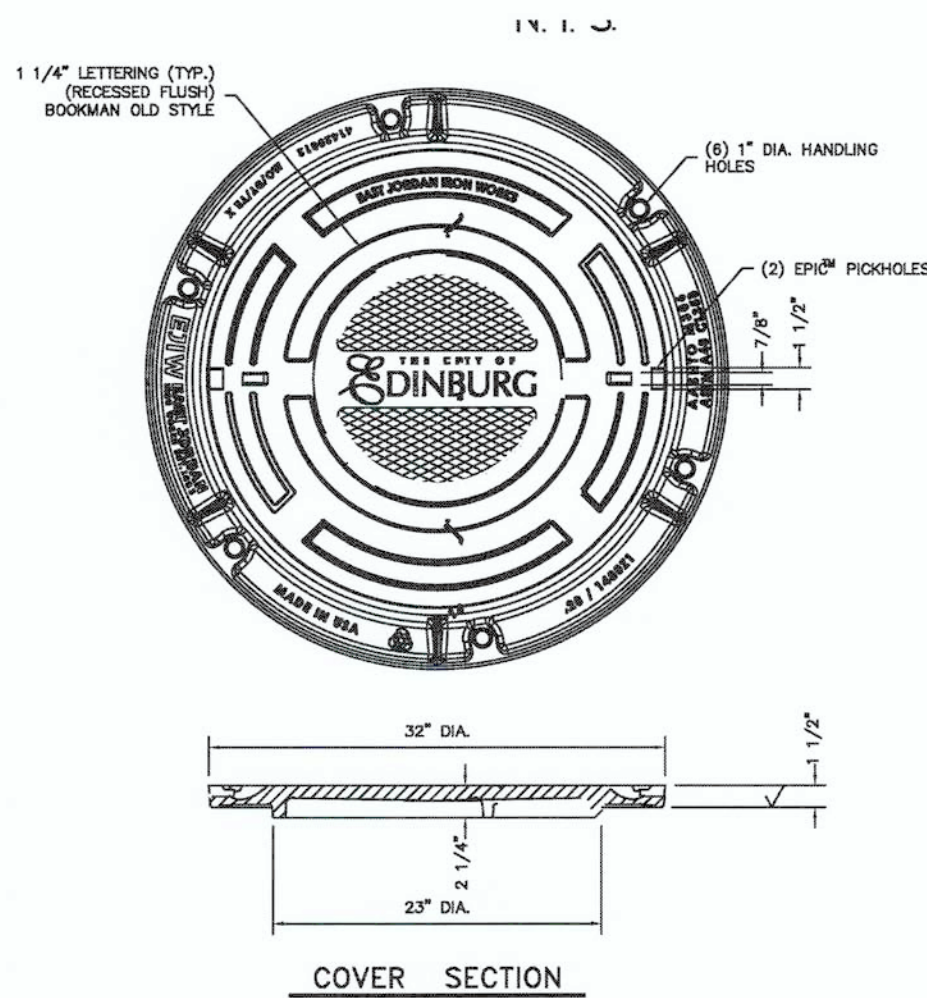
NOTES:

- WHEN UTILITY LOCATED WITHIN CITY R.O.W., ALL BACKFILL IS SUBJECT TO INSPECTION AND APPROVAL BY THE CITY ENGINEERS OFFICE.
- ALL EXISTING/ACTIVE STREET CROSSINGS SHALL REQUIRE SAND BACKFILL OF ENTIRE TRENCH.



- SAND BEDDING PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE. (MIN. THICKNESS = 6")
 - SAND BACK FILL PLACED AFTER PIPE IS LAID FROM BOTTOM OF PIPE TO SPRING LINE OF PIPE. (4" LIFTS, MECH. TAMPED).
 - SAND BACK FILL PLACED FROM SPRING LINE OF PIPE TO 6" ABOVE TOP OF PIPE. (6" LIFTS, MECH. TAMPED).
 - FILL TRENCH W/SELECT BACKFILL. W/12" LIFTS COMPACT TO 90% STD. PROCTOR.
- FOUNDATION PREPARATION (WELL POINTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE.**
- BACK FILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY. THE THICKNESS OF EACH LOOSE LAYER SHALL BE SAND, APPROVED SITE SOIL OR OTHER APPROVED SUBSTITUTE.**

SANITARY SEWER TYPICAL PIPE BEDDING AND TRENCH BACKFILL DETAIL
N.T.S.



MANHOLE REQUIREMENTS

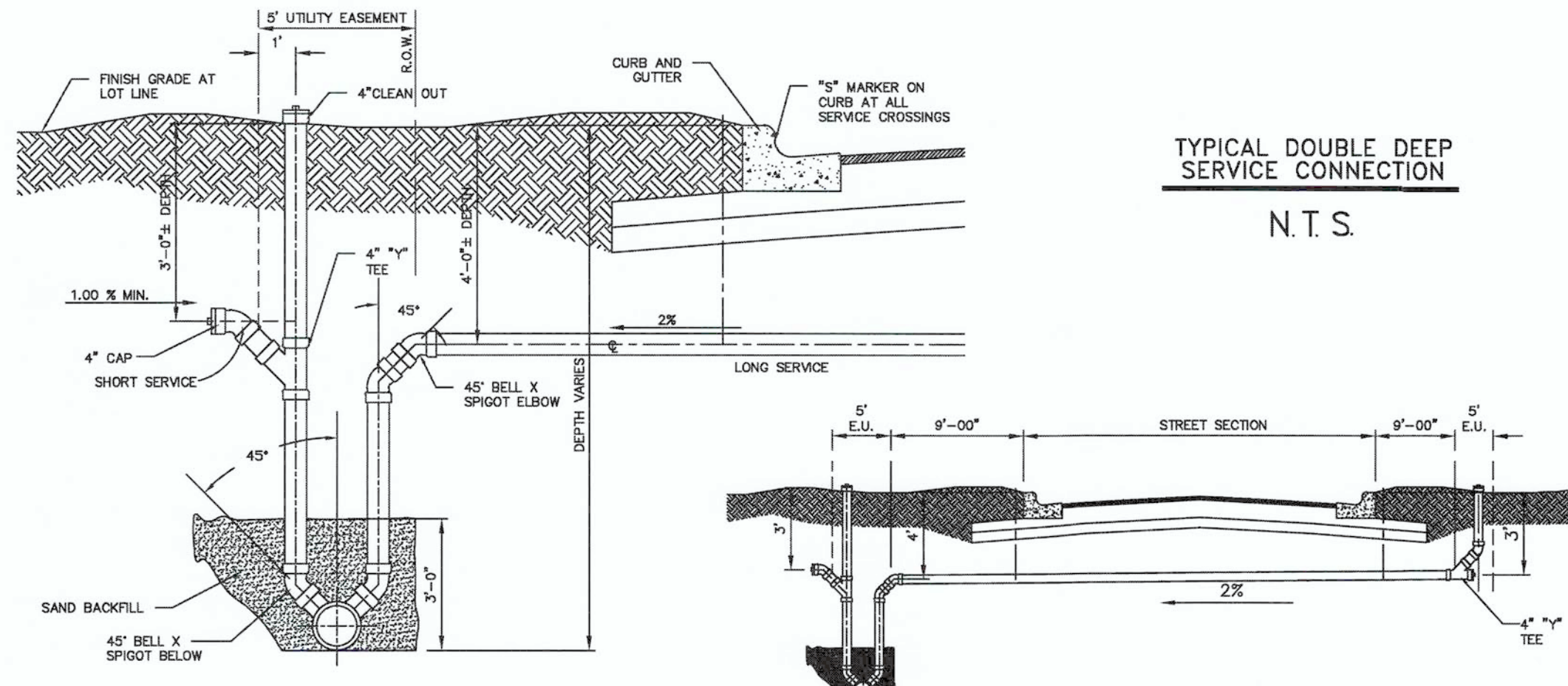
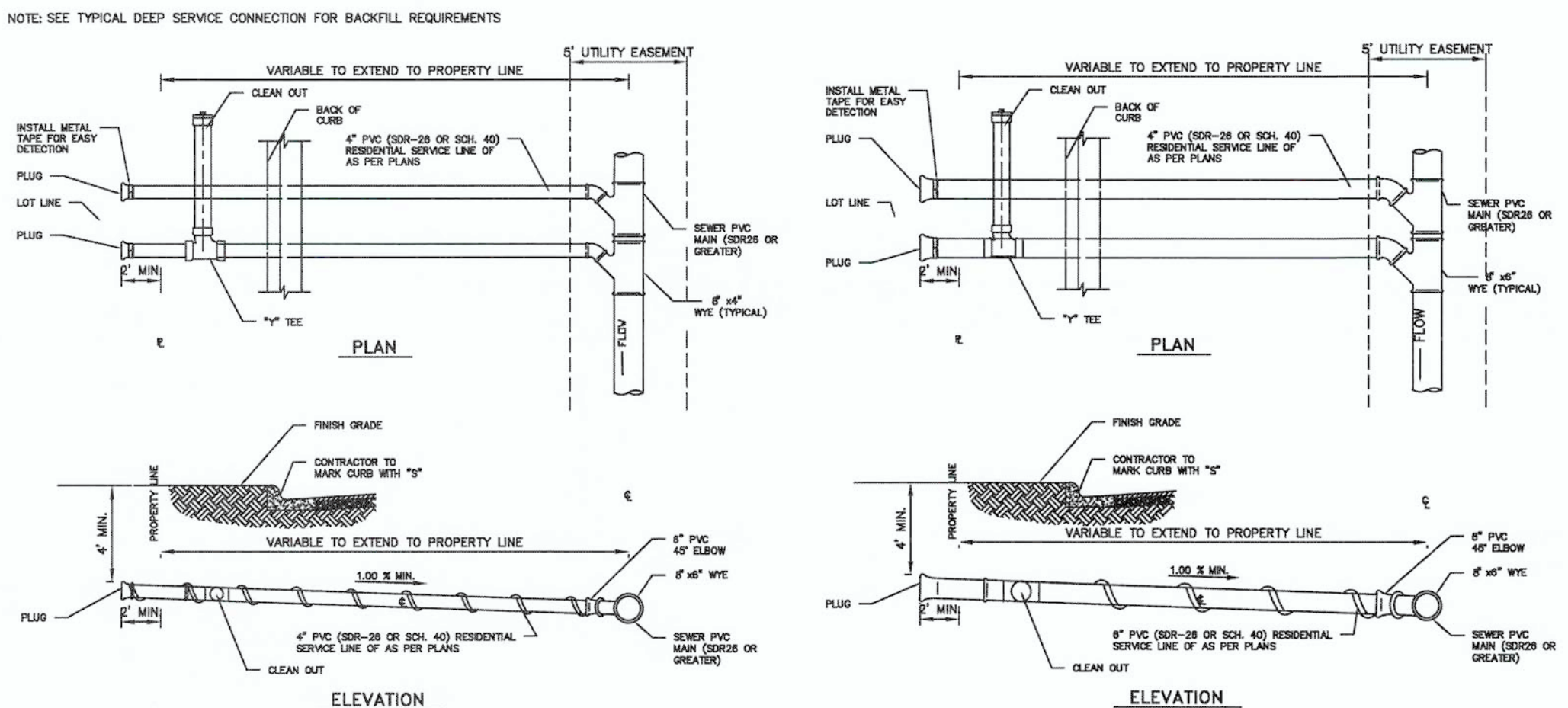
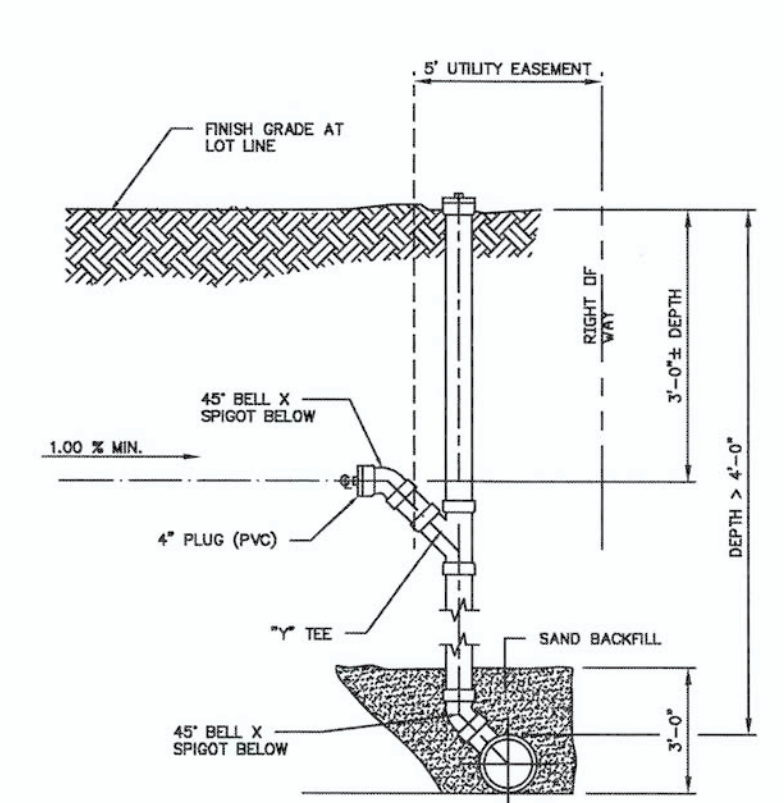
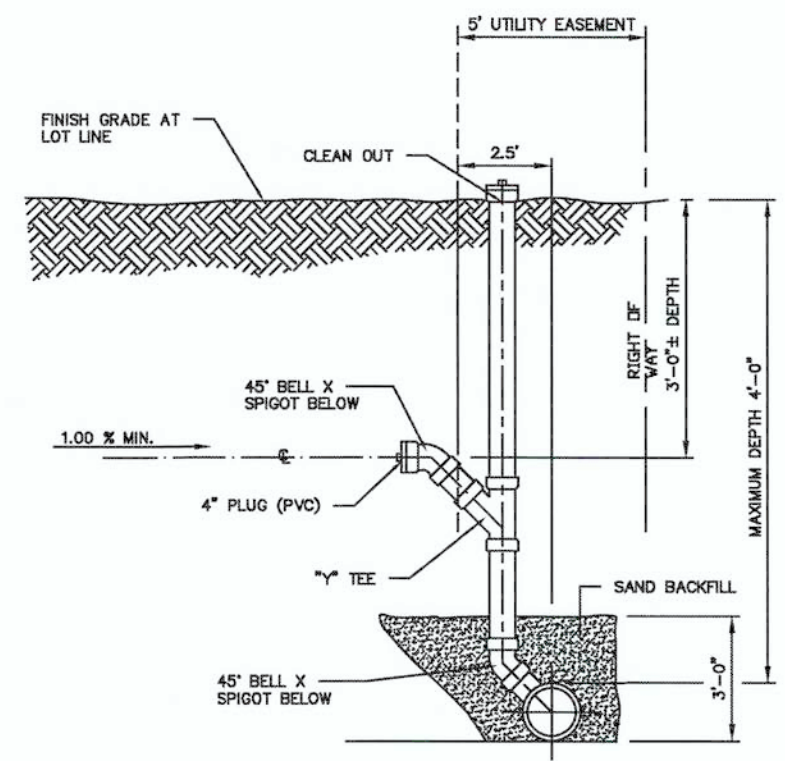
PIPE DIAMETER	MANHOLE DIAMETER
≤18"	4'
18" to ≤36"	5'
36" to ≤42"	6'

APPROVED COATINGS TABLE

MANUFACTURER	MODEL NAME
JEFFCOAT	JEFFCOAT 302
RAVEN LIVING SYSTEM	RAVEN 405
SHERWIN WILLIAMS	DURAFLATE 5900
CARBOLINE	PHENOLINE 309

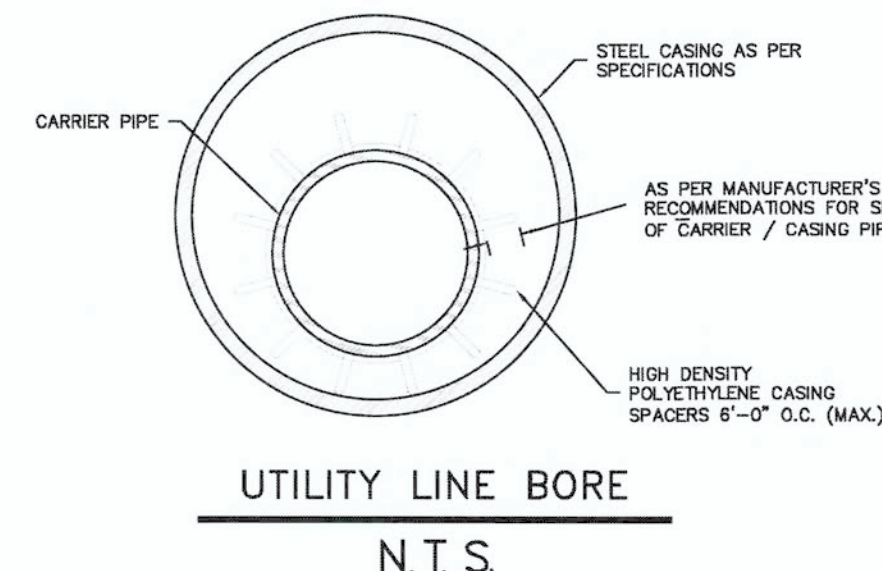
NOTE: COAT ALL CONCRETE SURFACES INCLUDING BUT NOT LIMITED TO BENCH WALLS AND CONCRETE COLLARS AROUND PIPE CONNECTIONS.

- GENERAL WASTEWATER CONSTRUCTION NOTES:**
- HMAC 2" - MINOR RESIDENTIAL, RESIDENTIAL AND MULTI-FAMILY COLLECTOR, COLLECTOR, MINOR AND PRINCIPAL ARTERIAL STREETS.
 - HMAC 3" - RURAL ARTERIAL STREETS. IN NO CASE SHALL THE THICKNESS OF THE HMAC BE LESS THAN THE THICKNESS OF THE EXISTING ADJACENT HMAC.
 - THE CONTRACTOR SHALL VISIT THE SITE OF THE WORK AND EXAMINE LOCAL CONDITIONS TO BE ENCOUNTERED, IMPROVEMENTS TO BE PROTECTED, AND PERMITS TO BE REQUIRED, ALONG WITH OTHER RESEARCH THAT IS NECESSARY TO ENSURE THAT THE CONTRACTOR THOROUGHLY UNDERSTANDS THE PROJECT AND IS FULLY AWARE OF ALL THE CONDITIONS AND CONSTRAINTS THAT MAY BE ENCOUNTERED DURING THE COURSE OF CONSTRUCTION.
 - THE CONTRACTOR SHALL ADHERE TO ALL TCD REGULATIONS PER 30 TAC CHAPTER 217 AND TRENCH SAFETY FOR EXCAVATIONS.
 - THE CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL AND MUST ADHERE TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
 - ALL FIBERGLASS MANHOLES SHALL BE MONOLITHIC WITH 0.50" MINIMUM WALL THICKNESS. FIBERGLASS BOTTOM SHALL BE DESIGNED TO WITHSTAND HYDROSTATIC HEAD PRESSURE UNDER ALL CONDITIONS.
 - ALL MANHOLE WALL PENETRATIONS SHALL BE CURED AND SEALED WITH APPROVED TPSMA WATER STOP GASKET ASSEMBLY. THE CONTRACTOR SHALL PROVIDE PROTECTIVE COATING ON ALL EXPOSED CONCRETE SURFACES, INCLUDING CORBEL AREA, MANHOLE WALLS AND MANHOLE BENCH.
 - FOR FIBERGLASS MANHOLES WITH WATERTIGHT BOTTOM, ADHERE TO ALL MANUFACTURER REQUIREMENTS. FIBERGLASS BOTTOM AND BENCH MUST ALSO BE FACTORY INSTALLED.
 - ALL DROP CONNECTIONS TO M.H. SHALL USE INSERTA-TEE.



BORING INSTALLATION

CARRIER PIPE SIZE	PIPE CASING SIZE	MIN. WALL THICKNESS
6"	14"	0.187"
8"	18"	0.187"
10"	18"	0.250"
12"	20"	0.250"
14", 15"	24"	0.344"
16"	24"	0.344"
18"	30"	0.375"
24"	36"	0.375"
36"	48"	0.625"

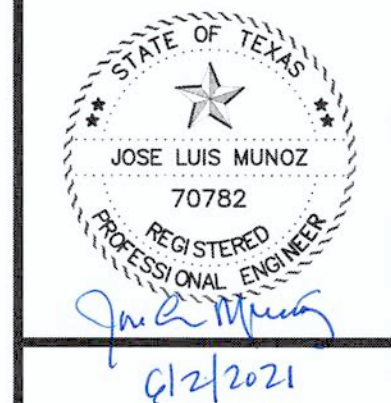


- GENERAL NOTES:**
- ALL STEEL CASING SHALL BE WELDED.
 - STEEL CASING SHALL BE CLOSED AT EACH END USING BRICK OR BLOCK AND MORTAR GROUTED.
 - CASING SPACERS SHALL BE USED TO INSTALL THE CARRIER PIPE INSIDE THE ENCASMENT PIPE. CASING SPACERS SHALL FASTEN TIGHTLY ONTO THE CARRIER PIPE SO THAT WHEN THE CARRIER PIPE IS BEING INSTALLED THE SPACERS WILL NOT MOVE ALONG THE PIPELINE. CASING SPACERS SHALL BE DOUBLED ON EACH END OF THE ENCASMENT.
 - PROJECTION - TYPE CASING SPACERS SHALL BE CONSTRUCTED OF PREFORMED SECTIONS OF HIGH DENSITY POLYETHYLENE. THE FLEXIBLE SECTIONS SHALL BE JOINED TOGETHER AROUND THE PIPE TO PROVIDE A MINIMUM OF 18 PLASTIC PROJECTIONS PER SPACER SECTION.
 - INSTALLATION AND SIZE OF SPACERS SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.

SANITARY SEWER SERVICE DETAIL
N.T.S.

Checked By: J.L.M.
Approved By: J.L.M.
Drawn By: A.R./J.H.
Date: JUNE 2021

DATE	DESCRIPTION



EDINBURG, TEXAS
VETERANS BLVD. DRAINAGE PROJECT
SANITARY SEWER DETAILS

G & M GUZMAN & MUÑOZ
ENGINEERING AND SURVEYING, INC.
MERCEDRES, TEXAS

Phone: (956) 565-4637
Fax: (956) 565-4636

2020 E. Expressway 83
Mercedes, Texas 78570

TEXAS REGISTERED ENGINEERING FIRM F-8017

Project No. P889-02

Sheet 21 of 21

TBPLS FIRM REGISTRATION NO. 10087700