

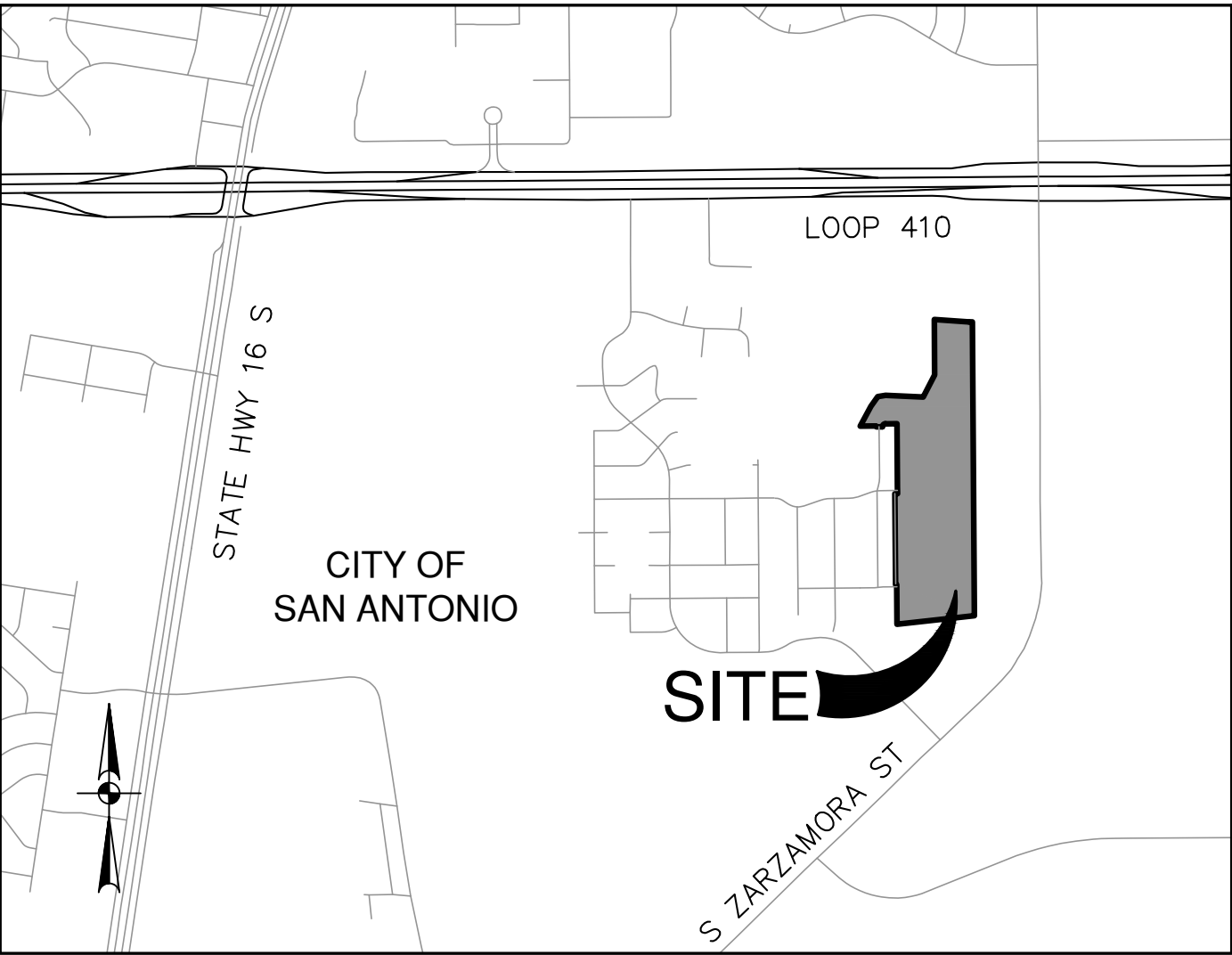
SMILEY TRACT UNIT 3 & 4

SAN ANTONIO, TEXAS

CIVIL CONSTRUCTION PLANS

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LOCATION MAP

NOT-TO-SCALE

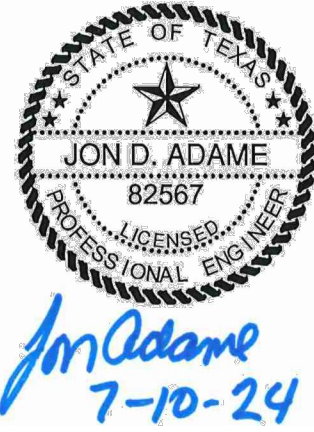
PREPARED FOR:

EL RANCHO SONRISA, LLC
8626 JODHPUR
FAIR OAKS RANCH, TEXAS 78015

JULY 2024



2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

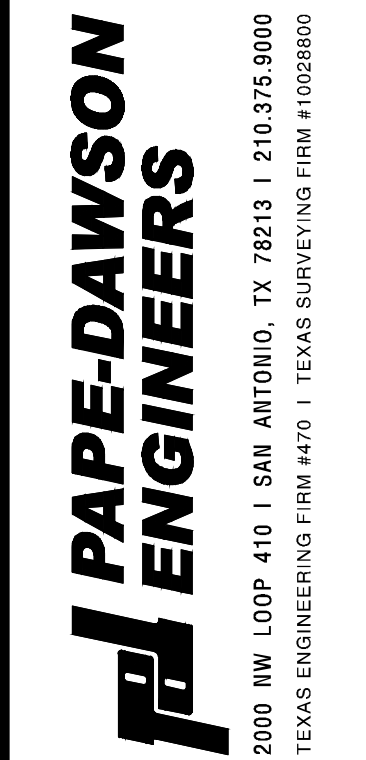
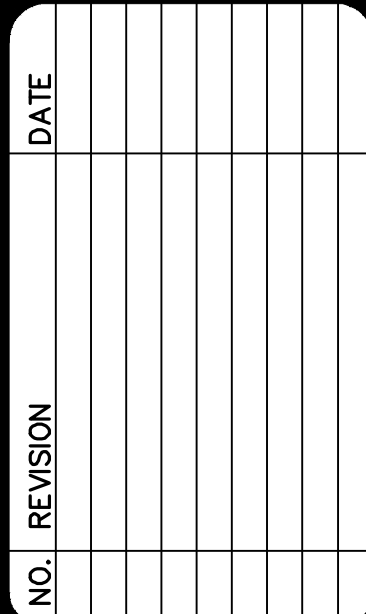
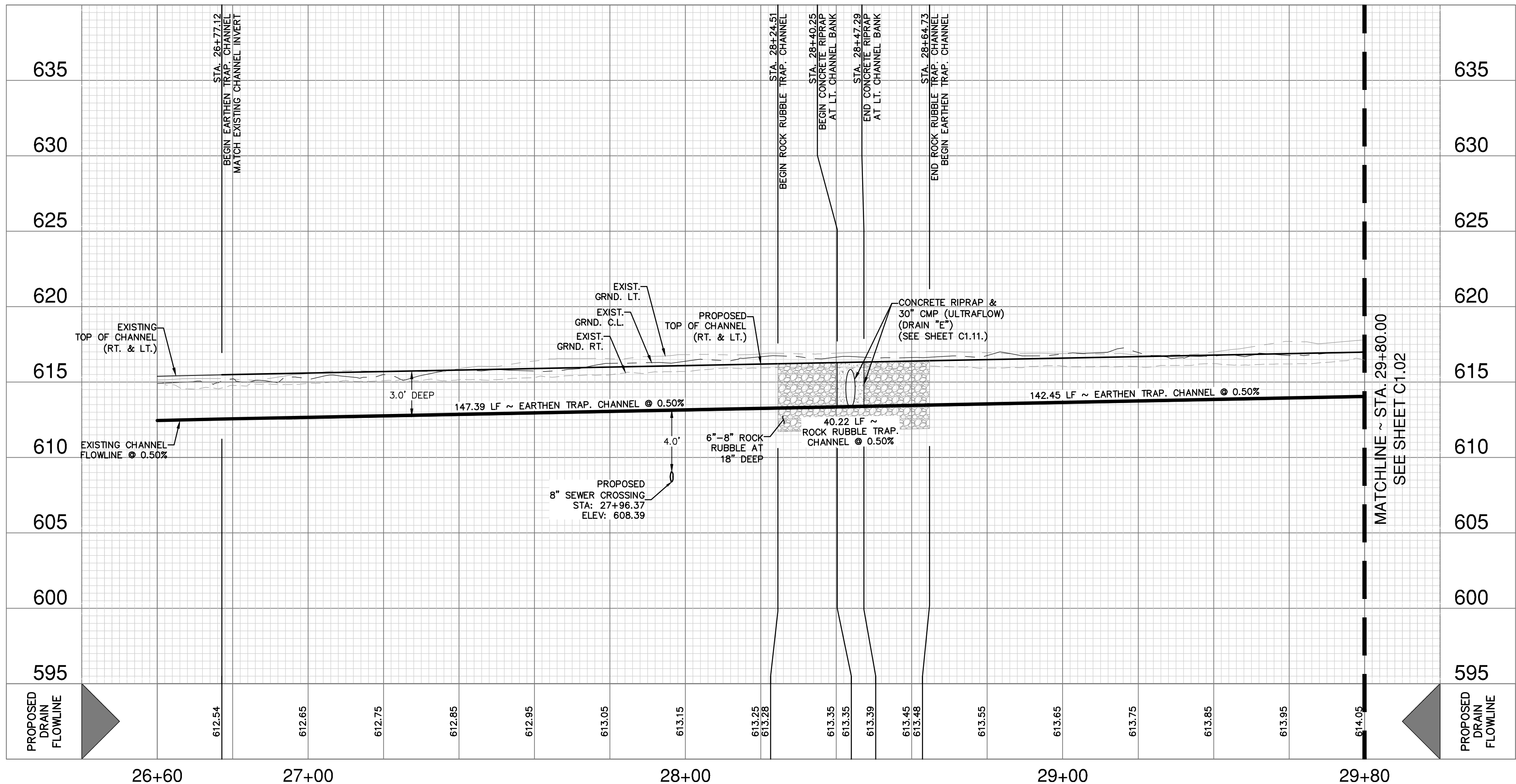
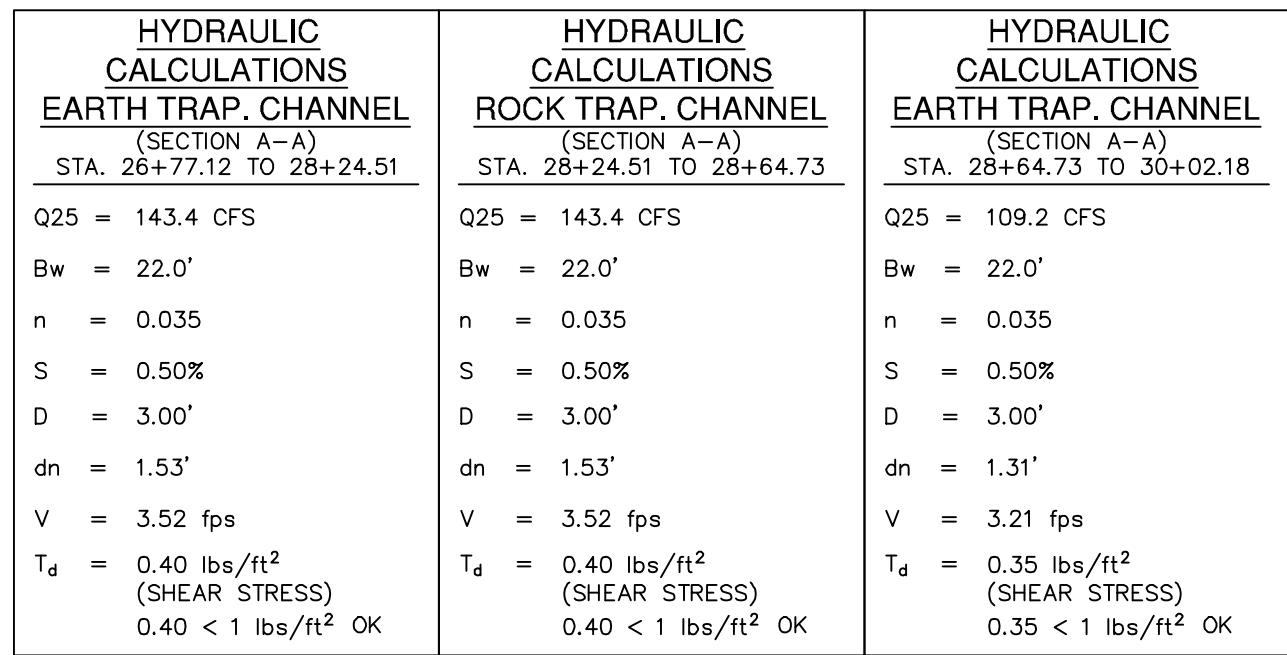


WATER (SAWS PRESSURE ZONE 790 HGL)

DEVELOPER'S NAME:	EL RANCHO SONRISA, LLC
ADDRESS:	8626 JODHPUR
CITY:	FAIR OAKS RANCH
STATE:	TEXAS
ZIP:	78015
PHONE#	(210) 381-9813
FAX#	14-6536, 14-6538, 14-8536, &
SAWS BLOCK MAP#	14-8538 TOTAL EDU'S 163 TOTAL ACREAGE 32.14
TOTAL LINEAR FOOTAGE OF PIPE: 8"	5,395 LF PLAT NO. 24-11800067
NUMBER OF LOTS	163
SAWS JOB NO.	24-1032

SEWER LOWER - WEST SEWERSHED - DOS RIOS/LEON CREEK

DEVELOPER'S NAME:	EL RANCHO SONRISA, LLC
ADDRESS:	8626 JODHPUR
CITY:	FAIR OAKS RANCH
STATE:	TEXAS
ZIP:	78015
PHONE#	(210) 381-9813
FAX#	14-6536, 14-6538, 14-8536, &
SAWS BLOCK MAP#	14-8538 TOTAL EDU'S 163 TOTAL ACREAGE 32.14
TOTAL LINEAR FOOTAGE OF PIPE: 8"	4,836 LF PLAT NO. 24-11800067
NUMBER OF LOTS	163
SAWS JOB NO.	24-1529



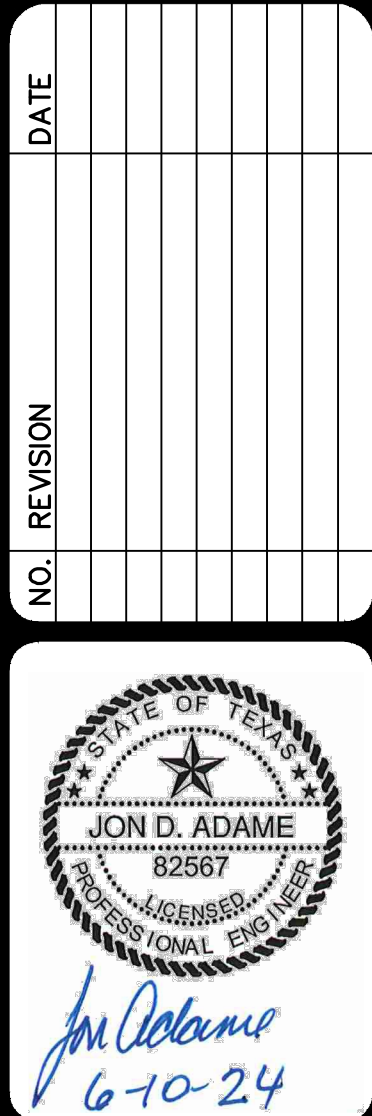
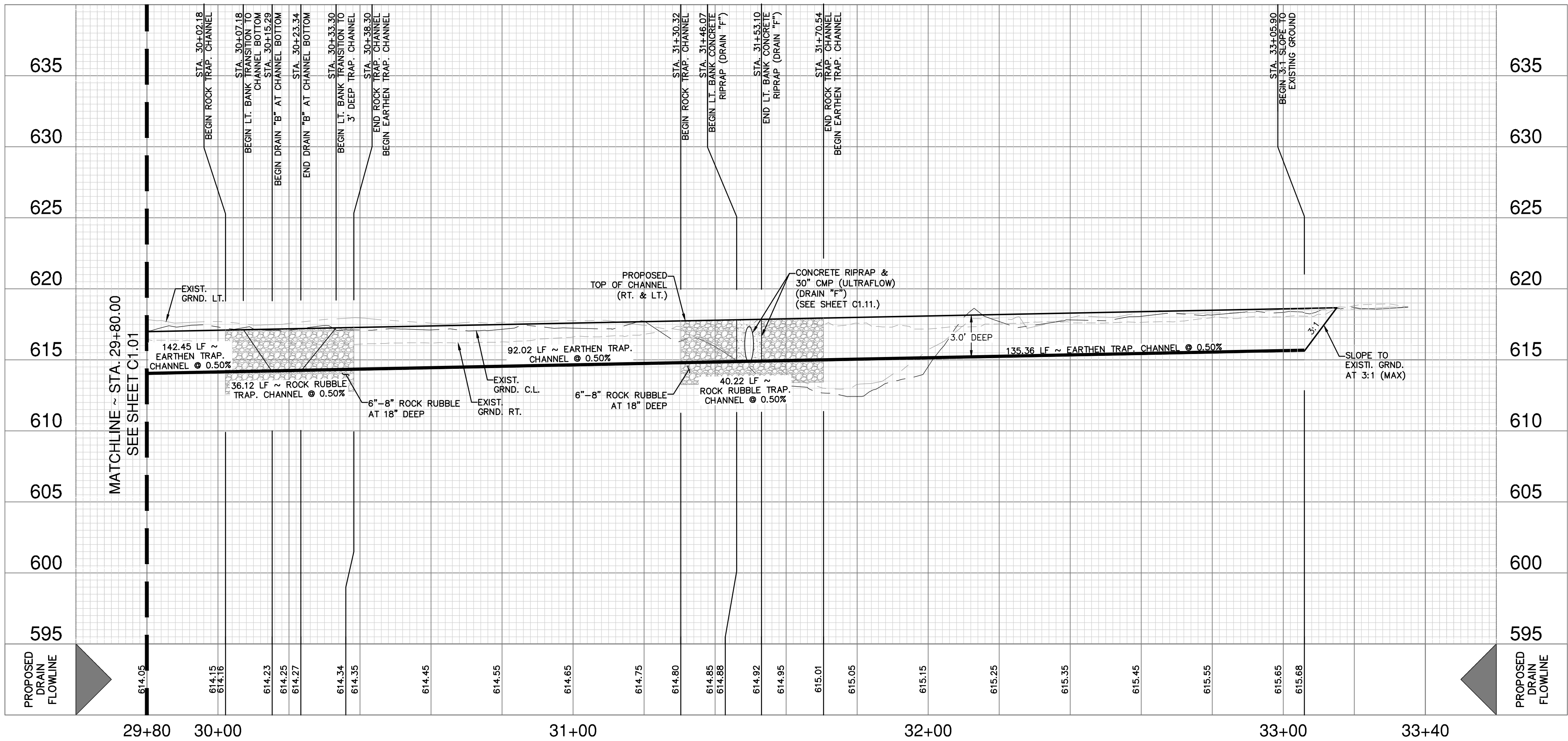
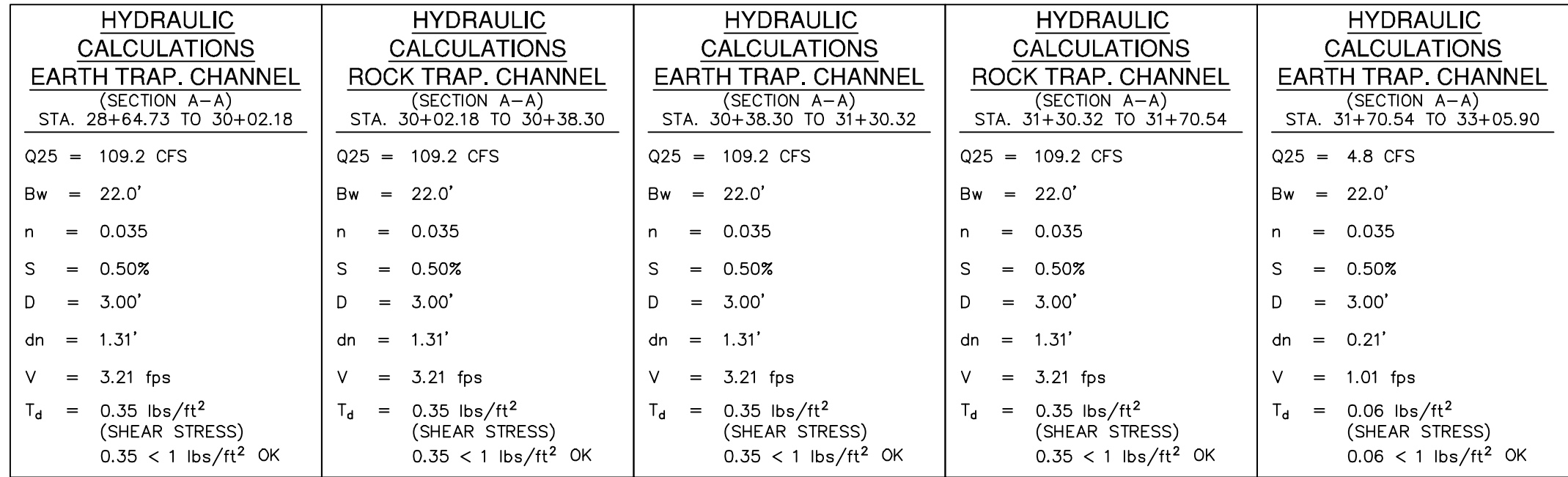
- ## TRENCH EXCAVATION SAFETY PROTECTION:
- CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THESE SAFETY PROGRAMS AND INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS, AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SAFETY 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 BE RESPONSIBLE FOR THE FOLLOWING: TO MAINTAIN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

CAUTION!!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ARCHITECT 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 THE RESPONSIBILITY OF THE ARCHITECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRACTICAL EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS
DRAIN "A" ~ STA. 26+90.34 TO STA. 29+80.10
DRAIN PLAN & PROFILE

PLAT NO. 24-11800067
 JOB NO. 13316-03
 DATE JUNE 2024
 DESIGNER CB
 CHECKED AS DRAWN CB
 SHEET C1.01



DRAINAGE & GRADING NOTES:

1. A CITY OF SAN ANTONIO ROW PERMIT SHALL BE OBTAINED BEFORE WORKING IN BEXAR COUNTY ROW. CONTRACTOR SHALL COORDINATE A TRAFFIC CONTROL PLAN FOR ALL WORK WITHIN THE ROW. ADDITIONAL WARNING SIGNS MAY BE RECOMMENDED BY THE ENGINEER ONCE THE ROADWAYS ARE CONSTRUCTED.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION, ALL UTILITIES AND DRAINAGE STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION TO VERIFY SIZE, GRADE, AND LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR. AT HIS EXPENSE.
3. ALL CONCRETE FOR TxDOT DRAINAGE STRUCTURES SHALL MEET TxDOT ALL SPECIFICATIONS. ALL CONCRETE SHALL BE CLASS "A" 3000 PSI CYLINDER STRENGTH IN 28 DAYS.
4. REFERENCE DRAINAGE DETAILS FOR PIPE TRENCH DETAILS, BOX CULVERT, HEADWALL, AND GINNGALL CONSTRUCTION DETAILS, AND BOX CULVERT BEDDING AND EXCAVATION LIMITS.
5. CONTRACTOR SHALL GROUT ALL CURB INLETS AND JUNCTION BOXES TO PROVIDE FOR POSITIVE DRAINAGE.
6. EARTHEN CHANNELS WILL BE VEGETATED BY SEEDING OR SODDING. 85% OF THE CHANNEL SURFACE MUST HAVE ESTABLISHED VEGETATION BEFORE THE CITY OF SAN ANTONIO WILL ACCEPT.
7. CONTRACTOR SHALL MATCH TOP OF CHANNEL TO NATURAL GROUND AND MAINTAIN A MINIMUM CHANNEL DEPTH OF "D" AS SHOWN IN THE PROFILE.

TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT 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.

CAUTION!!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING, ELECTRICAL, SECONDARY ELECTRIC, PRIMARY ELECTRICAL, DUCTBANK, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONDITIONS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

SMILEY TRACT UNIT 3 & 4

SAN ANTONIO, TEXAS

DRAIN "A" ~ STA. 29+80.00 TO END DRAIN PLAN & PROFILE

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT 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.	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> PLAT NO. 24-11800067 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> JOB NO. 13316-03 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> DATE JUNE 2024 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> DESIGNER CB </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> CHECKED AS DRAWN CB </div> <div style="border: 1px solid black; padding: 5px;"> SHEET C1.02 </div>
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HYDRAULIC CALCULATIONS	
EARTH/ROCK	
<u>TRAP CHANNEL</u>	
(SECTION A-A)	
STA. 1+10.80 TO 2+64.20	
Q25 =	91.9 CFS
Bw =	8.0'
n =	0.035
S =	0.50%
D =	3.00'
dn =	1.89'
V =	3.56 fps
T _d =	0.40 lbs/t ²
	(SHEAR STRESS)
	0.40 < 1 lbs/t ² OK

**HYDRAULIC
CALCULATIONS**
CONC. TRAP. CHANNEL
(SECTION B-B)
STA. 2+64.20 TO 2+86.50

Q25 = 91.9 CFS

Bw = 8.0'

n = 0.015

S = 0.50%

D = 3.00'

dn = 1.22'

V = 6.46 fps

**HYDRAULIC
CALCULATIONS
CONC. TRAP. CHANNEL**
(SECTION C-C)
STA. 3+91.45 TO 3+96.95

Q25 = 91.9 CFS

Bw = 8.0'

n = 0.015

S = 0.50%

D = 2.50'

dn = 1.22'

V = 6.46 fps

	<p align="center">HYDRAULIC CALCULATIONS</p> <p align="center"><u>CONC. TRAP. CHANNEL</u></p> <p align="center">(SECTION C-C)</p> <p align="center">STA. 3+96.95 TO 4+00.00</p>
Q25 =	91.9 CFS
Bw =	8.0'
n =	0.015
S =	33.33%
D =	2.50'
dn =	0.38'
V =	26.46 fps

**HYDRAULIC
CALCULATIONS**
CONC. TRAP. CHANNEL
(SECTION C-C)
STA. 4+00.00 TO 4+05.00

Q25 = 91.9 CFS

Bw = 8.0'

n = 0.015

S = 0.50%

D = 2.50'

dn = 1.22'

V = 6.46 fps



KEY LEGEND:

- (A) 10' ELEC., GAS, TELE., & CA. T.V. EASEMENT
- (B) 4' SIDEWALK
- (C) 4' DEVELOPER SIDEWALK
- (D) HEADWALL / PARALLEL WINGWALL
(SEE SHEET C1.22 FOR DETAIL)

**HYDRAULIC
CALCULATIONS
EARTH TRAP, CHANNE**

(SECTION D-D)
STA. 4+05.00 TO 4+40.00

Q25 = 91.9 CFS

Bw = 8.0'

n = 0.035

S = 0.50%

D = 2.50'

dn = 1.89'

V = 3.56 fps

T_d = 0.41 lbs/ft²
(SHEAR STRESS)
0.41 < 1 lbs/ft² OK

**HYDRAULIC
CALCULATIONS**

EARTH TRAP. CHANNEL

(SECTION D-D)
STA. 4+40.00 TO 10+26.95

Q25 = 91.9 CFS

Bw = 8.0'

n = 0.035

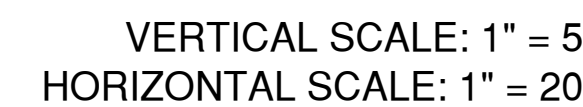
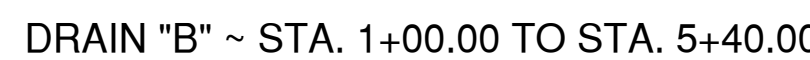
S = 1.27%

D = 2.50'

dn = 1.49'

V = 4.95 fps

T_d = 0.85 lbs/ft²
(SHEAR STRESS)
0.85 < 1 lbs/ft² OK



- ## TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE
OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT
IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL
INFORMATION AND THE ASSOCIATED INSTALLATION SITES WITHIN
THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH
EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR
PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS.
THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS
AND/OR PROCEDURES SHALL BE IN ACCORDANCE WITH ALL APPLICABLE
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 IF
COMPLY WITH OSHA STANDARDS GOVERNING THE PRESENCE OF
ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

CAUTION!!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, 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 ANY CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

DRAIN "B" ~ STA. 1+00.00 TO STA. 5+40.00
DRAIN PLAN & PROFILE

PLAT NO. 24-11800067
 JOB NO. 13316-03
 DATE JULY 2024
 DESIGNER CB
 CHECKED AS DRAWN CB
 SHEET C1.03

[illegible]



**HYDRAULIC
CALCULATIONS**

EARTH TRAP CHANNEL

(SECTION D-D)
STA. 4+40.00 TO 9+54.07

Q25 = 91.9 CFS

Bw = 8.0'

n = 0.035

S = 1.27%

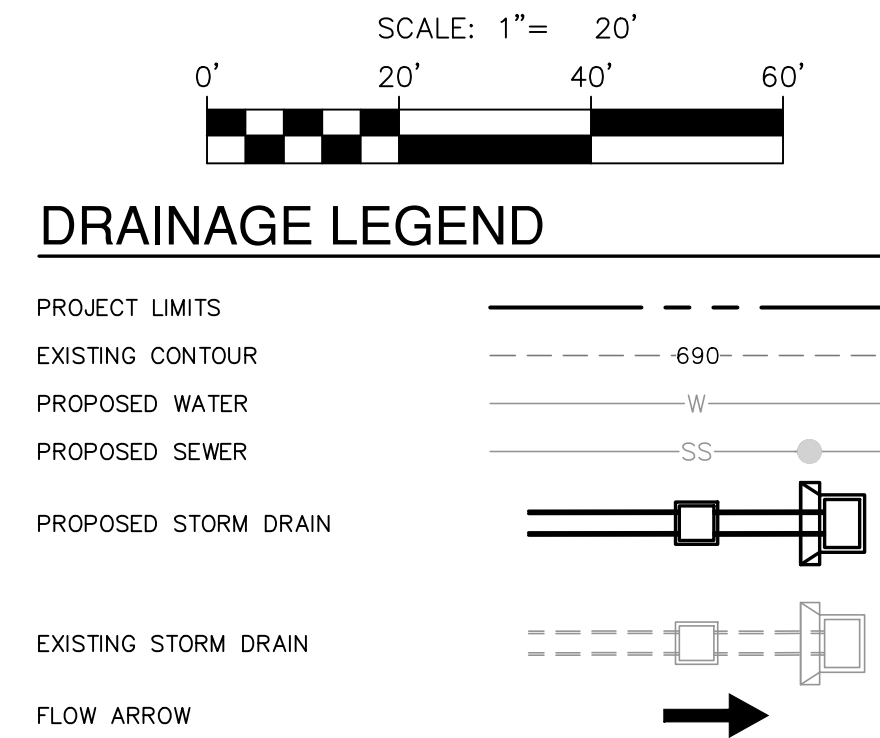
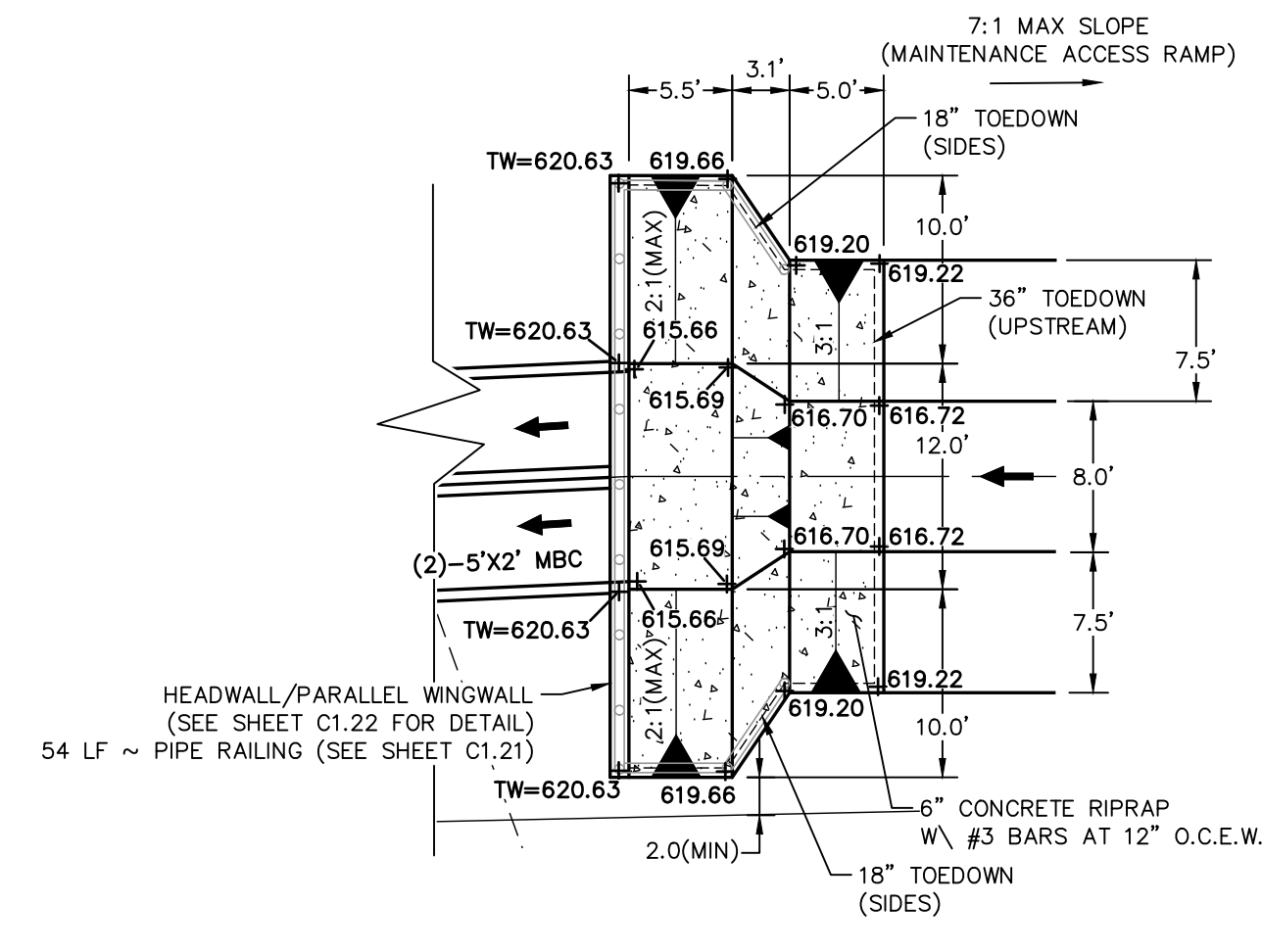
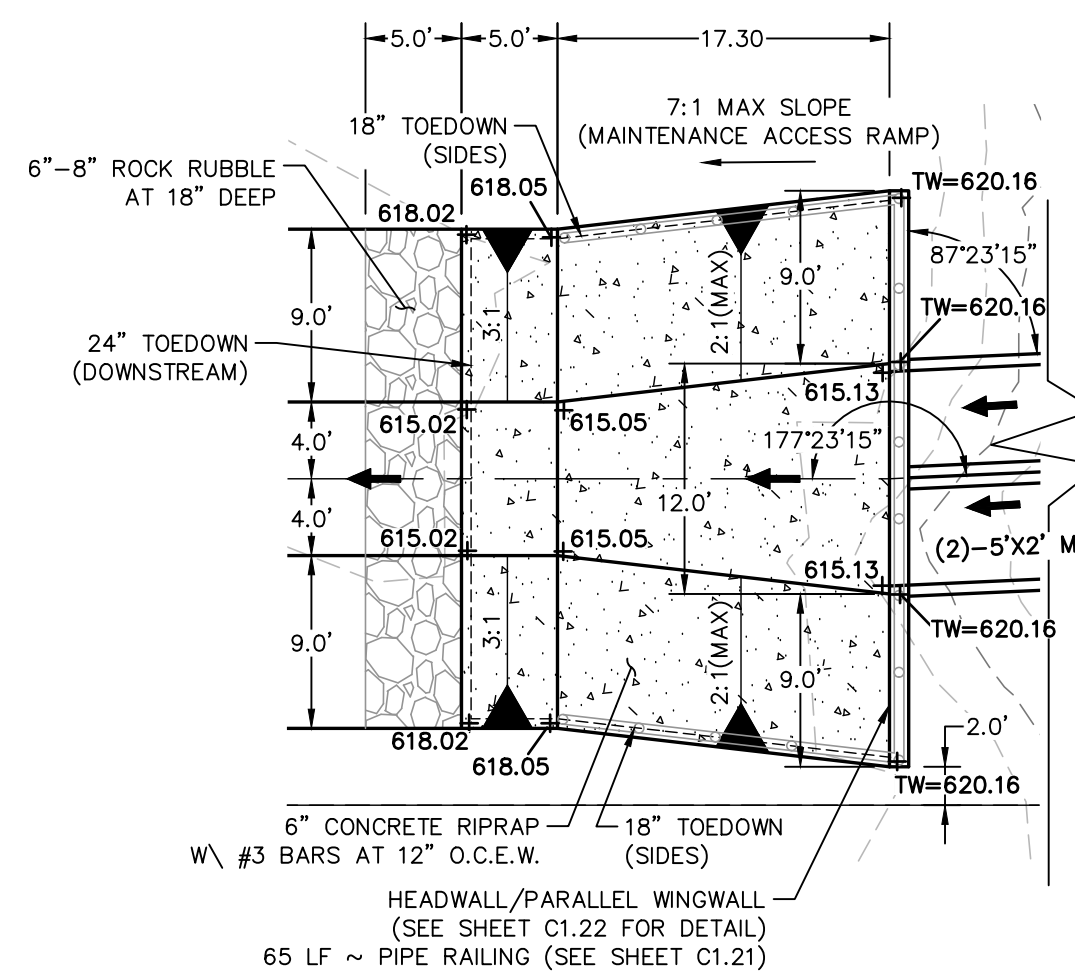
D = 2.50'

dn = 1.49'

V = 4.95 fps

$T_d = \frac{0.85 \text{ lbs/ft}^2}{(\text{SHEAR STRESS})}$

0.85 < 1 lbs/ft² OK

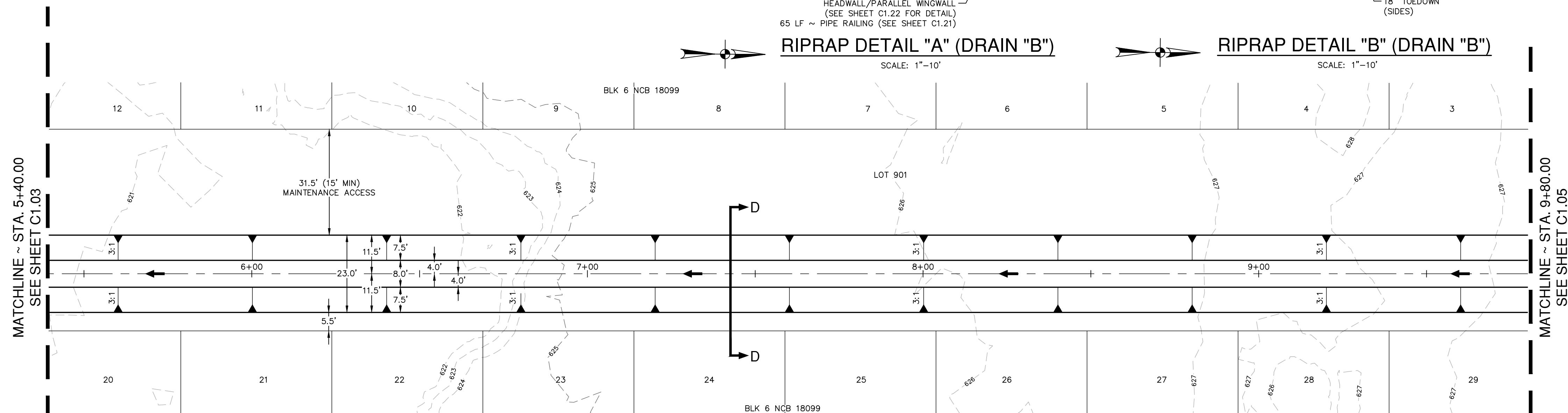


KEY LEGEND:

(A) 10' ELEC., GAS, TELE., &
CA. T.V. EASEMENT

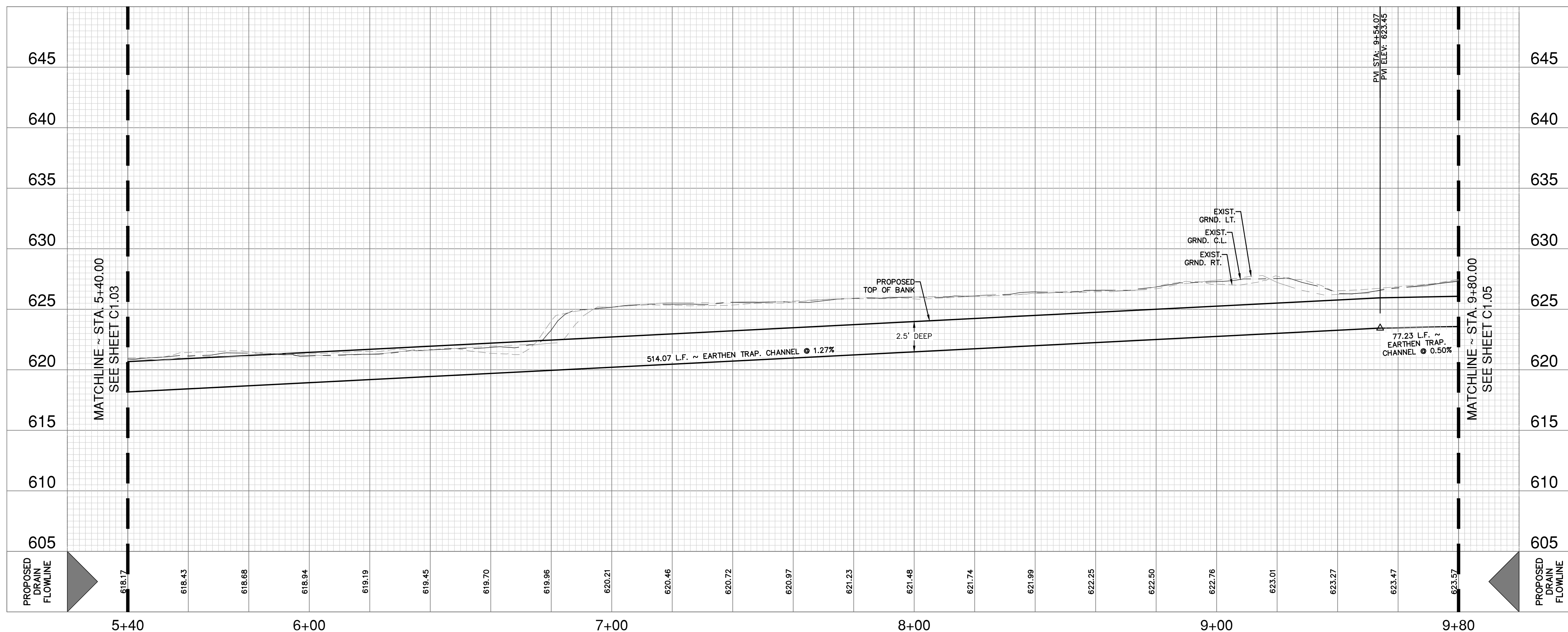
(B) 4' SIDEWALK

(C) 4' DEVELOPER SIDEWALK



DRAIN "B" ~ STA. 5+40.00 TO STA. 9+80.00

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 20'



DRAINAGE & GRADING NOTES:

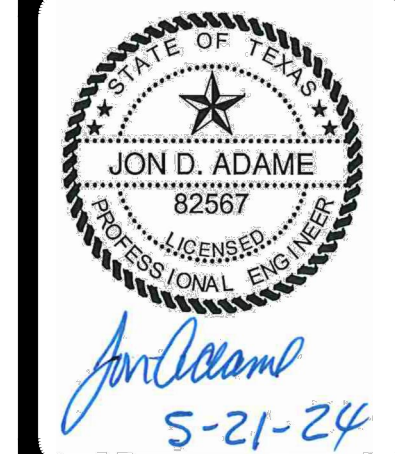
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2. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL UTILITIES AND DRAINAGE STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION TO VERIFY SIZE, GRADE AND LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS EXPENSE.
3. ALL CONCRETE FOR TxDOT DRAINAGE STRUCTURES SHALL MEET TxDOT SPECIFICATIONS. ALL OTHER CONCRETE SHALL BE CLASS "A" 3000 PSI CYLINDER STRENGTH IN 28 DAYS.
4. REFERENCE DRAINAGE DETAILS FOR PIPE TRENCH DETAILS, BOX CULVERT, HEADWALL, AND WINGWALL CONSTRUCTION DETAILS, AND BOX CULVERT BEDDING AND EXCAVATION LIMITS.
5. CONTRACTOR SHALL GROUT ALL CURB INLETS AND JUNCTION BOXES TO PROVIDE FOR POSITIVE DRAINAGE.
6. EARTHEN CHANNELS WILL BE VEGETATED BY SEEDING OR SODDING. 85% OF THE CHANNEL SURFACE MUST HAVE ESTABLISHED VEGETATION BEFORE THE CITY OF SAN ANTONIO WILL ACCEPT.
7. CONTRACTOR SHALL MATCH TOP OF CHANNEL TO NATURAL GROUND AND MAINTAIN A MINIMUM CHANNEL DEPTH OF "D" AS SHOWN IN THE PROFILES.

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT. IF ANY, SHALL REVIEW THE PLANS AND ANY AVAILABLE GEOTECHNICAL/ SAFETY INFORMATION AND THE PROPOSED INSTALLATION SITES WITHIN THE WORK AREA IN ORDER TO IDENTIFY CONTRACTOR'S AND/OR CONTRACTOR'S EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS AND THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES. SHALL PROVIDE FOR ADEQUATE TRENSH EXCAVATION SAFETY PROTECTION THAT MEETS ALL REQUIREMENTS AS SPECIFIED FOR TRENSH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENSH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING TRENSH PROTECTIVE ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENSH EXCAVATION.

CAUTION!!

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**PAPE-DAWSON
ENGINEERS**

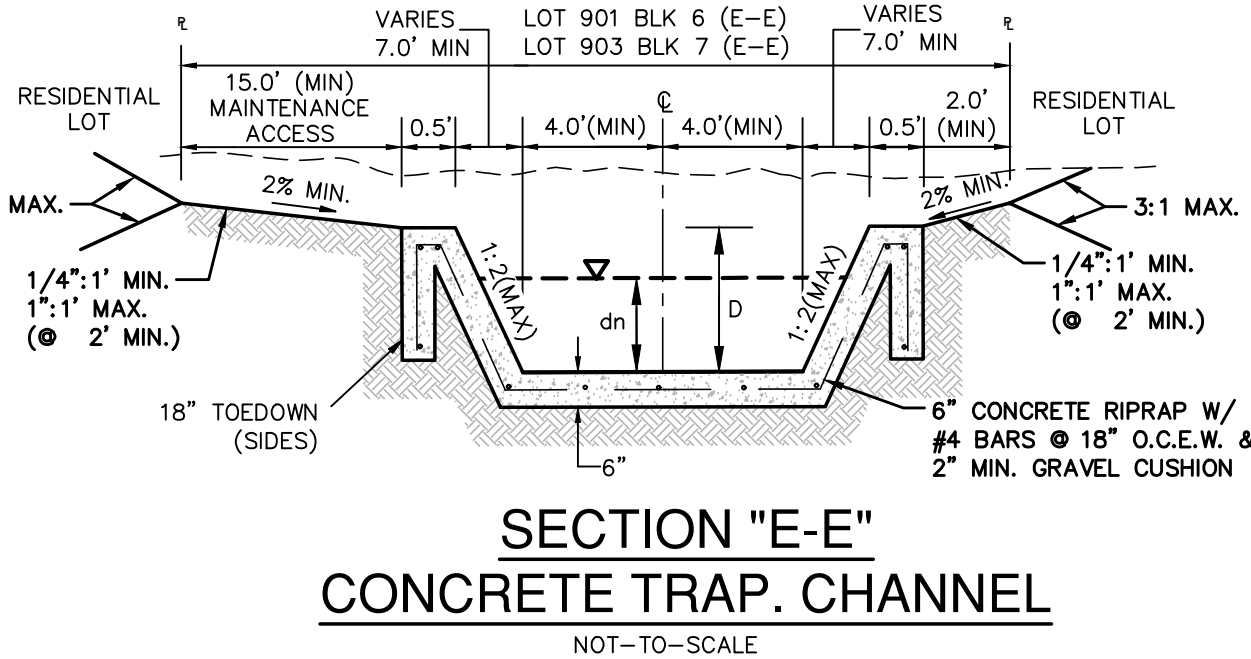
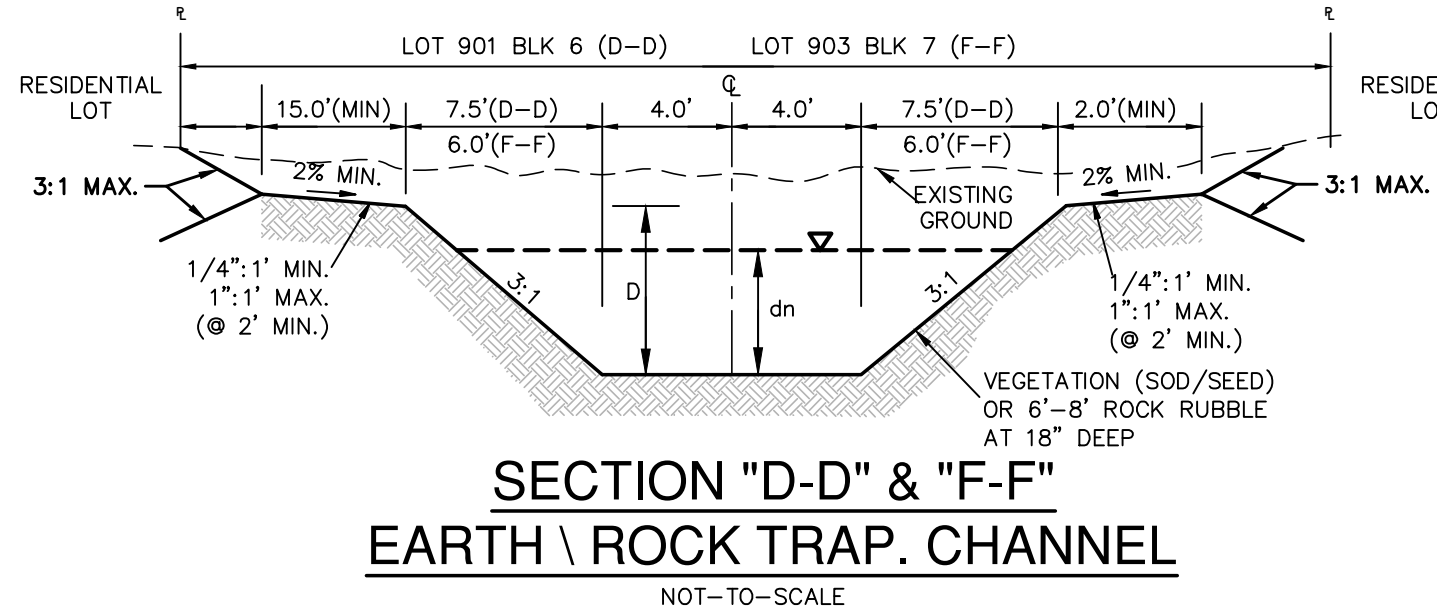
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS
DRAIN "B" ~ STA. 5+40.00 TO STA. 9+80.00
DRAIN PLAN & PROFILE

PLAT NO. 24-11800067
JOB NO. 13316-03
DATE MAY 2024
DESIGNER CB
CHECKED AS DRAWN CB
SHEET C1.04

Date: Dec 03, 2024, 3:44pm User: j-dawson
File: P:\13316\13316-03\Design\Drawings\13316-03.dwg

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HYDRAULIC CALCULATIONS EARTH / ROCK TRAP. CHANNEL (SECTION D-D)
STA. 9+54.07 TO 10+36.30
Q25 = 91.9 CFS
Bw = 8.0'
n = 0.035
S = 0.50%
D = 2.50'
dn = 1.89'
V = 3.56 fps
Td = 0.40 lbs/ft ² (SHEAR STRESS)
0.40 < 1 lbs/ft ² OK

HYDRAULIC CALCULATIONS CONC. TRAP. CHANNEL (SECTION E-E)
STA. 10+36.30 TO 10+62.48
Q25 = 91.9 CFS
Bw = 8.0'
n = 0.015
S = 0.50%
D = 2.50'
dn = 1.22'
V = 6.46 fps

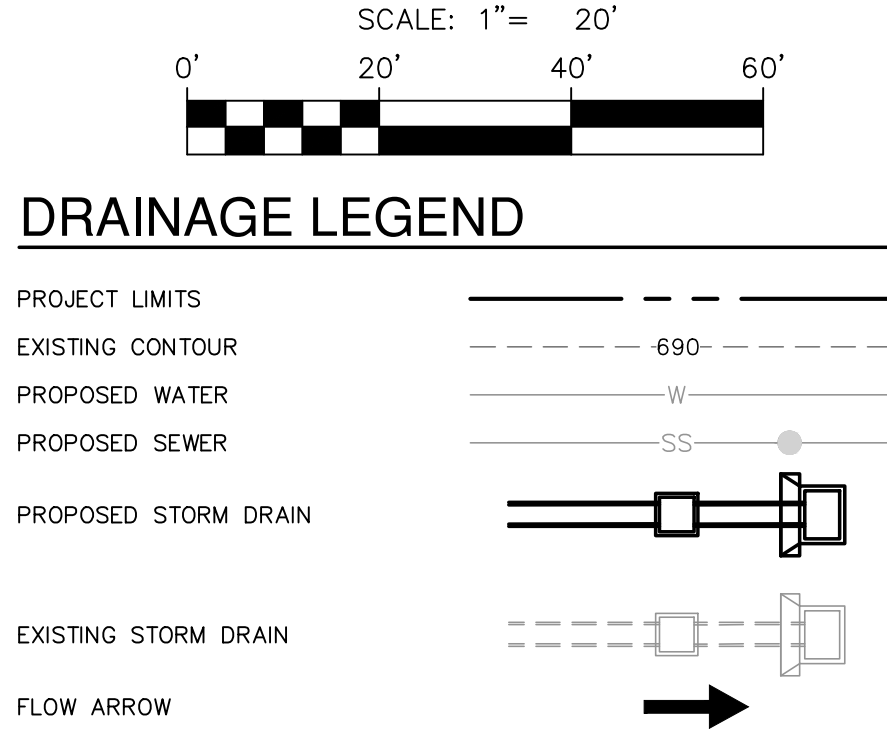
HYDRAULIC CALCULATIONS CONC. TRAP. CHANNEL (SECTION F-F)
STA. 11+51.92 TO 11+56.92
Q25 = 52.2 CFS
Bw = 8.0'
n = 0.015
S = 0.50%
D = 2.00'
dn = 0.89'
V = 5.50 fps

HYDRAULIC CALCULATIONS CONC. TRAP. CHANNEL (SECTION E-E)
STA. 11+56.92 TO 11+65.72
Q25 = 52.2 CFS
Bw = 8.0'
n = 0.015
S = 33.33%
D = 2.00'
dn = 0.27'
V = 21.94 fps

HYDRAULIC CALCULATIONS CONC. TRAP. CHANNEL (SECTION E-E)
STA. 11+65.92 TO 11+69.20
Q25 = 52.2 CFS
Bw = 8.0'
n = 0.015
S = 0.50%
D = 2.00'
dn = 0.89'
V = 5.50 fps

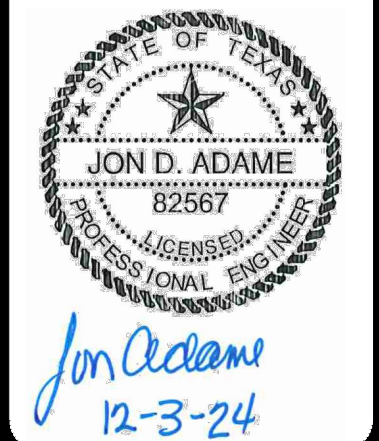
HYDRAULIC CALCULATIONS EARTH TRAP. CHANNEL (SECTION F-F)
STA. 11+69.20 TO 12+80.00
Q25 = 52.2 CFS
Bw = 8.0'
n = 0.035
S = 0.50%
D = 2.00'
dn = 1.41'
V = 3.03 fps
Td = 0.32 lbs/ft ² (SHEAR STRESS)
0.32 < 1 lbs/ft ² OK

HYDRAULIC CALCULATIONS EARTH / ROCK TRAP. CHANNEL (SECTION F-F)
STA. 12+80.00 TO 14+92.60
Q25 = 52.2 CFS
Bw = 8.0'
n = 0.035
S = 2.10%
D = 2.00'
dn = 0.96'
V = 5.00 fps
Td = 0.97 lbs/ft ² (SHEAR STRESS)
0.97 < 1 lbs/ft ² OK



- KEY LEGEND:**
- 10' ELEC., GAS, TELE., & CA. T.V. EASEMENT
 - 4' SIDEWALK
 - 4' DEVELOPER SIDEWALK
 - HEADWALL/PARALLEL WINGWALL (SEE SHEET C1.22 FOR DETAIL)
 - CONCRETE COLLARS (SEE SHEET C1.21 FOR DETAIL)

DATE	12/03/24
REVISION	
1	SHEET REFERENCE CORRECTED & CONCRETE COLLARS ADDED



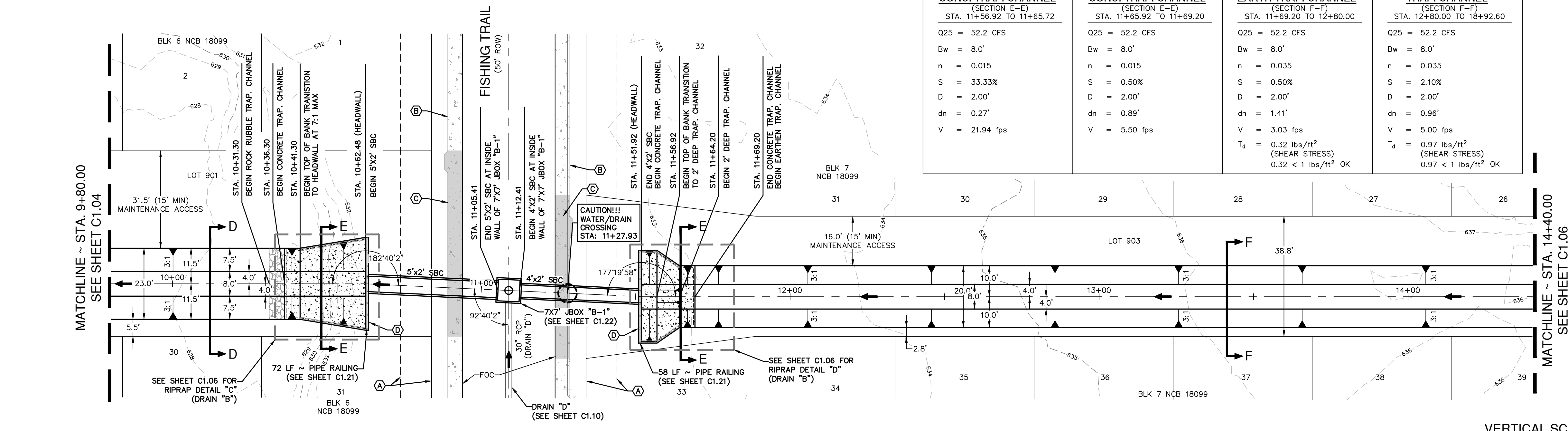
PAPE-DAWSON ENGINEERS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028900

SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS

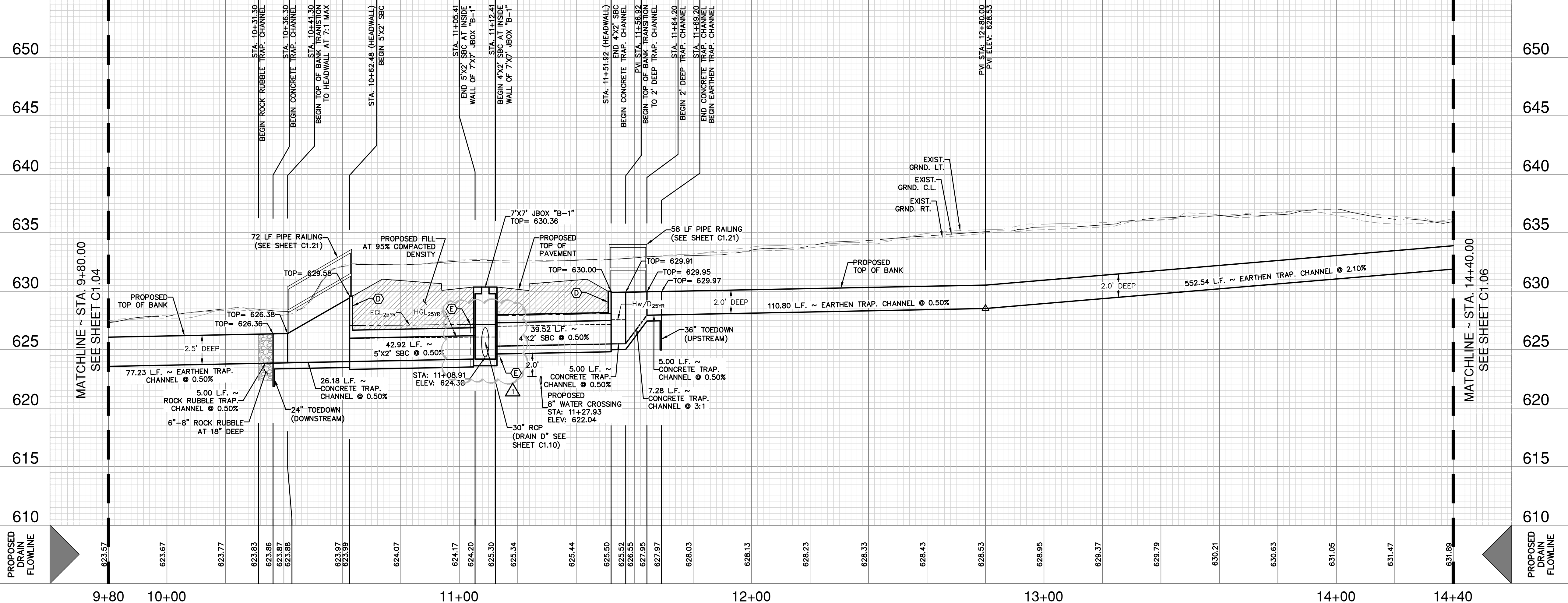
DRAIN "B" ~ STA. 9+80.00 TO STA. 14+40.00
DRAIN PLAN & PROFILE

PLAT NO.	24-11800067
JOB NO.	13316-03
DATE	JULY 2024
DESIGNER	CB
CHECKED	AS DRAWN CB
SHEET	C1.05



DRAIN "B" ~ STA. 9+80.00 TO STA. 14+40.00

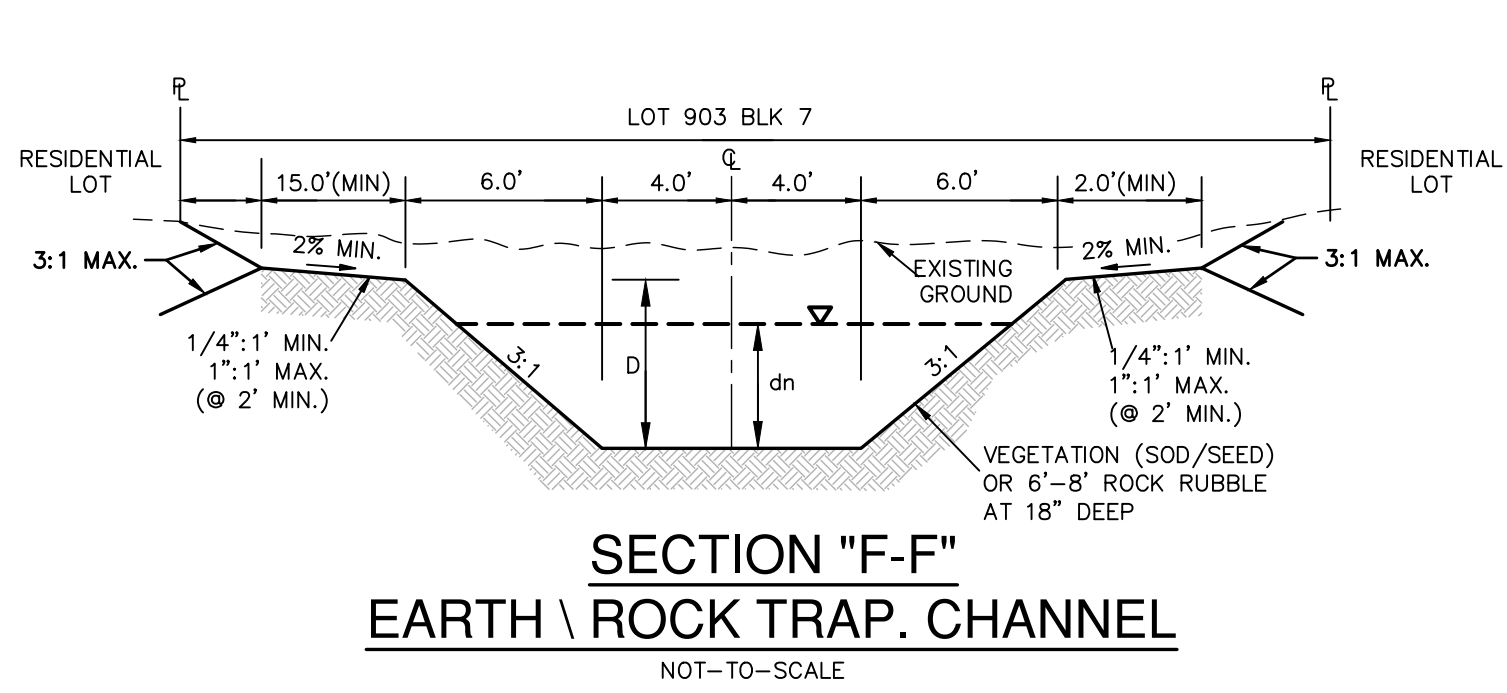
VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 20'



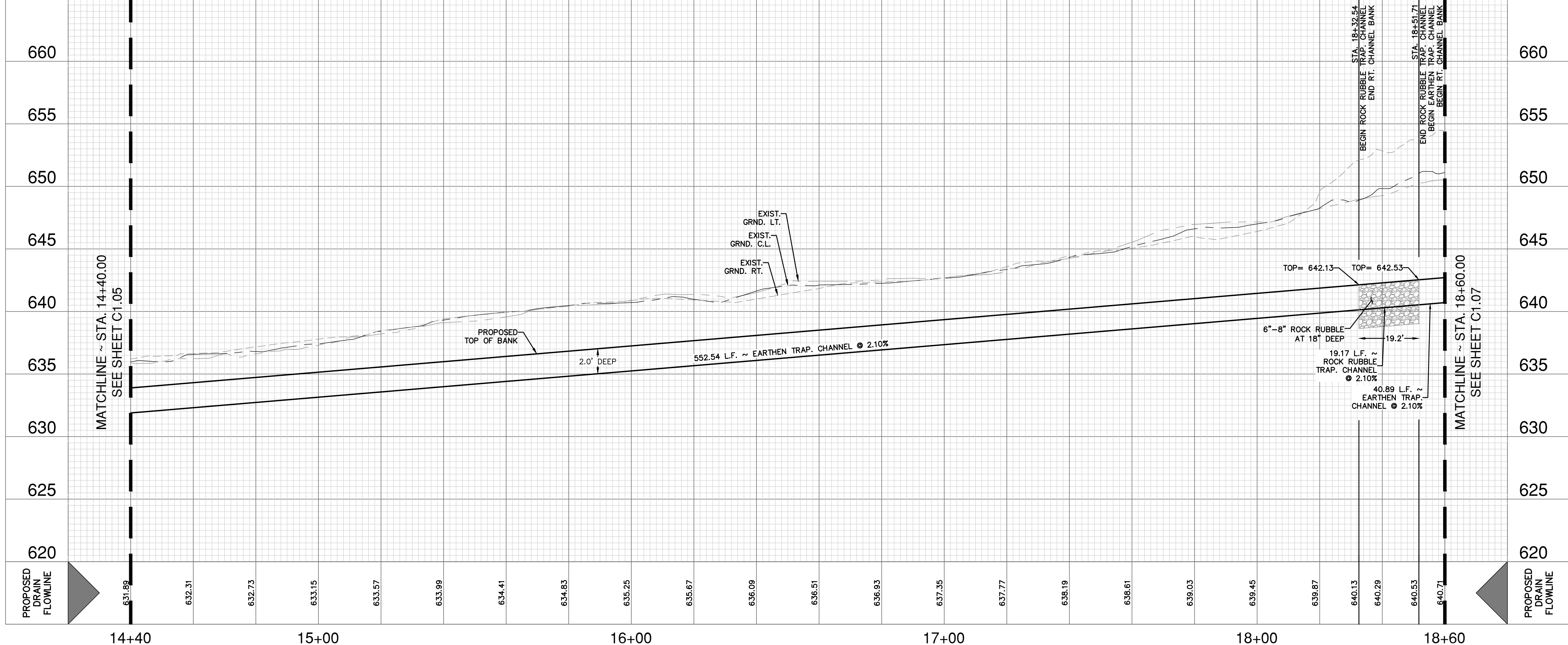
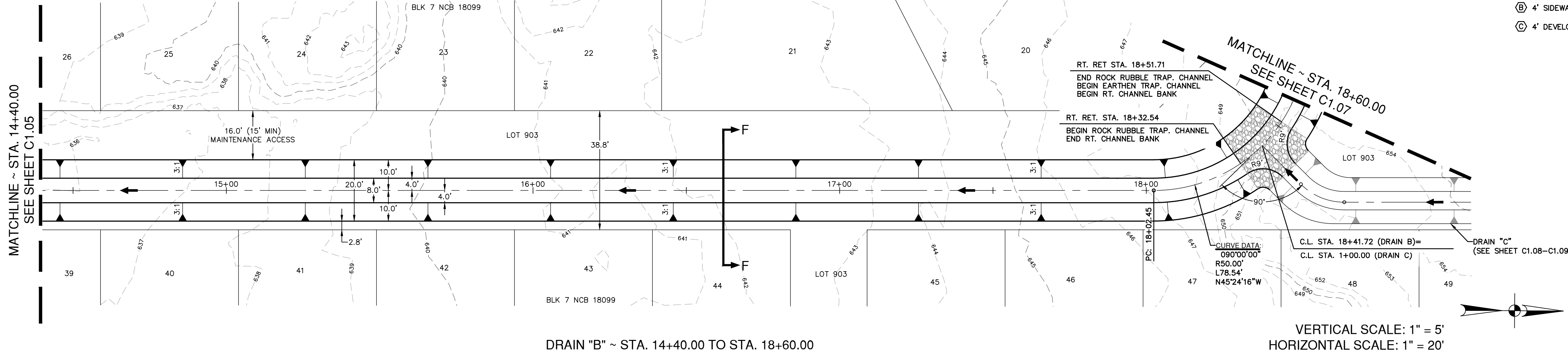
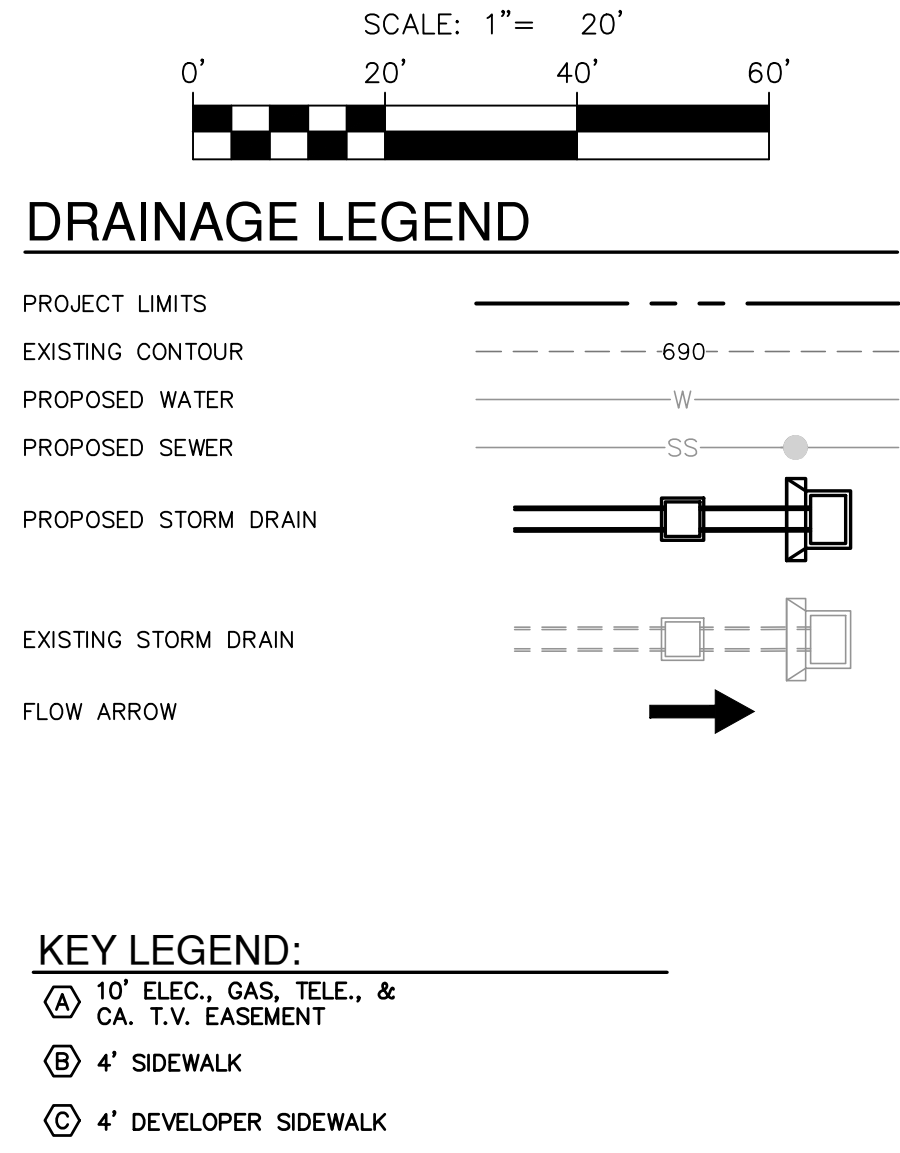
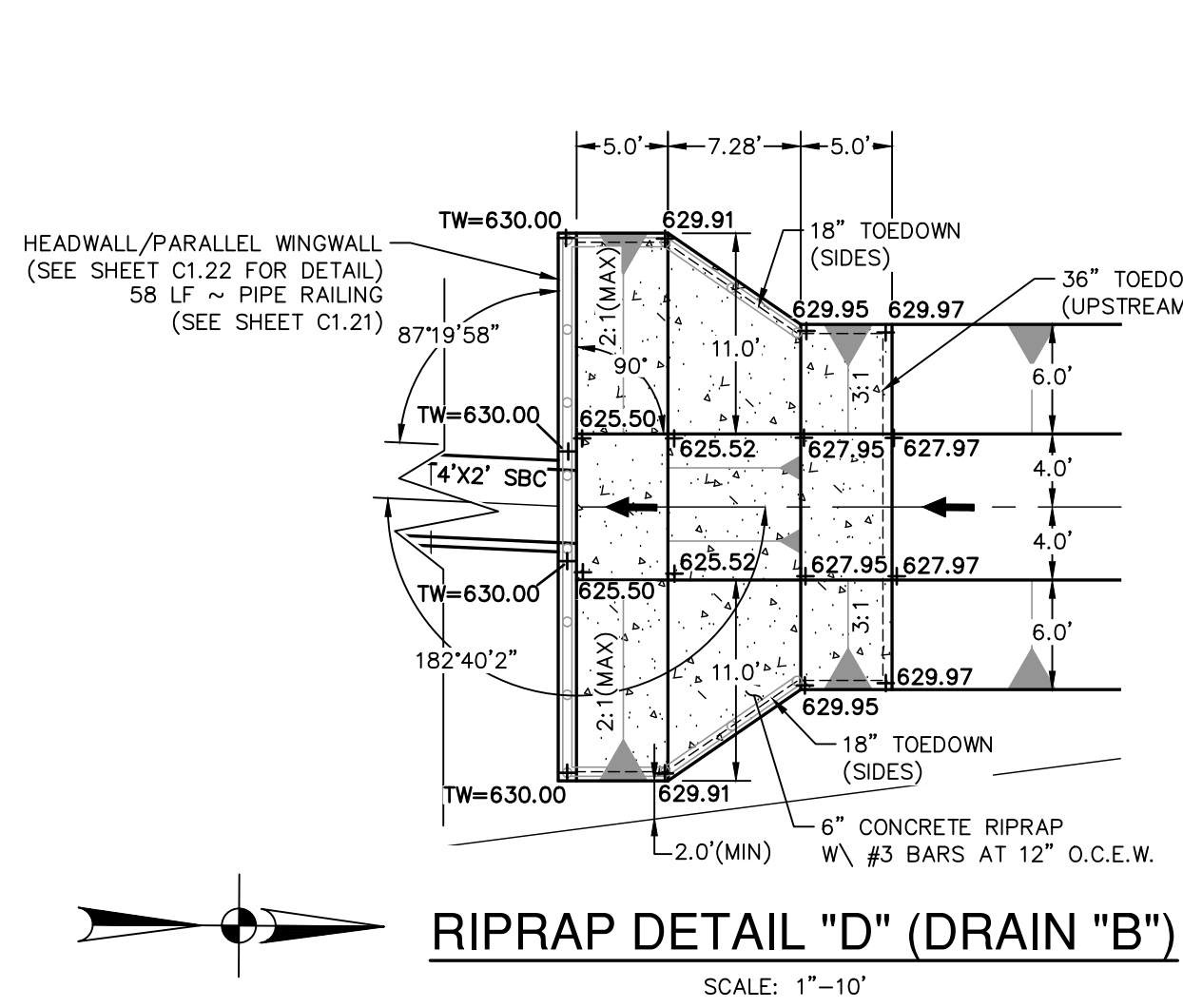
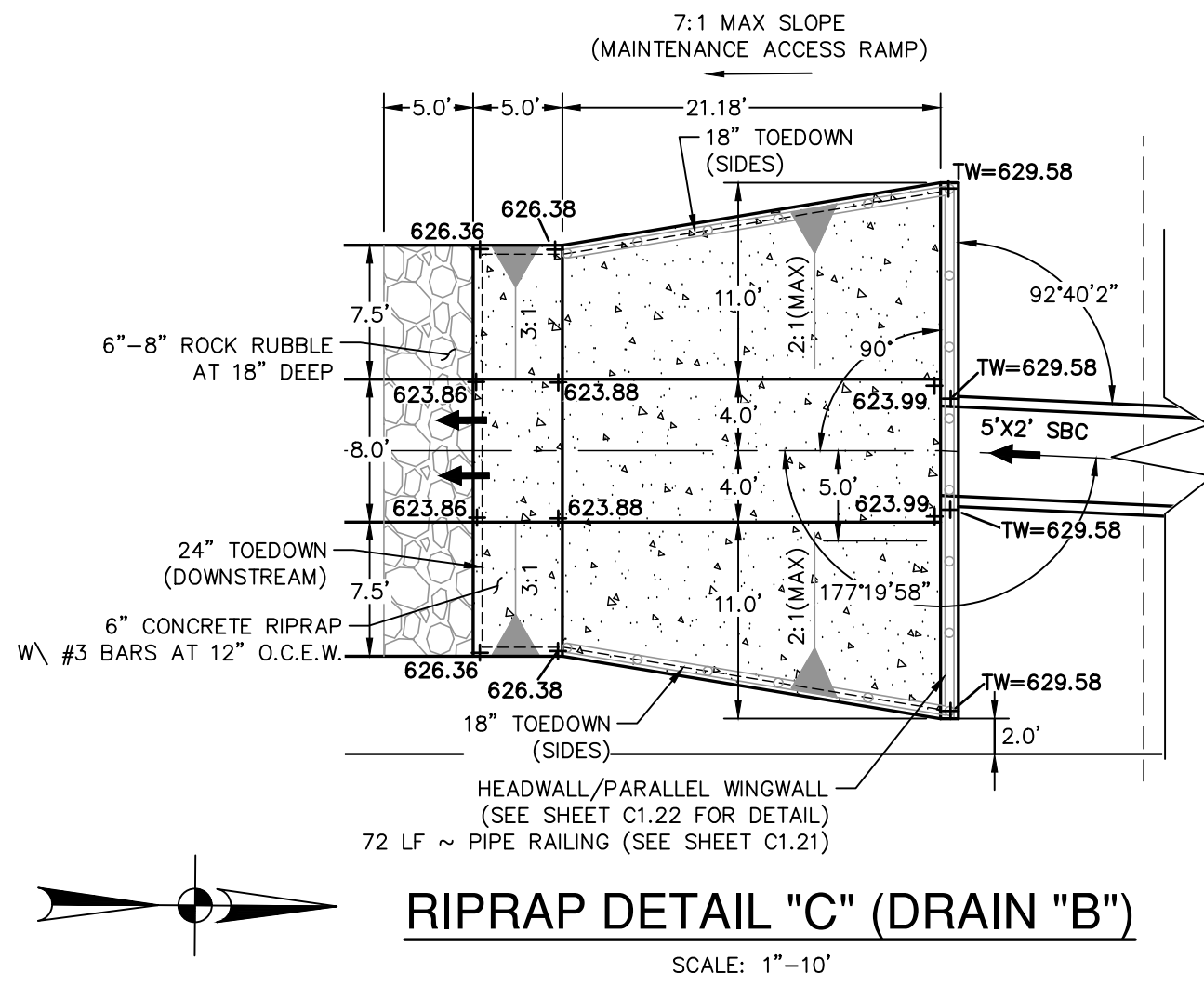
- DRAINAGE & GRADING NOTES:**
- A CITY OF SAN ANTONIO ROW PERMIT MUST BE OBTAINED BEFORE WORKING IN BEXAR COUNTY ROW. CONTRACTOR SHALL COORDINATE A TRAFFIC CONTROL PLAN FOR ALL WORK WITHIN THE ROW. ADDITIONAL WARNING SIGNS MAY BE RECOMMENDED BY THE ENGINEER ONCE THE ROADWAYS ARE CONSTRUCTED.
 - THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL UTILITIES AND DRAINAGE STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION TO VERIFY SIZE, GRADE, AND LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS EXPENSE.
 - ALL CONCRETE FOR TXDOT DRAINAGE STRUCTURES SHALL MEET TXDOT SPECIFICATIONS. ALL OTHER CONCRETE SHALL BE CLASS "A" 3000 PSI CYLINDER STRENGTH IN 28 DAYS.
 - REFERENCE DRAINAGE DETAILS FOR PIPE TRENCH DETAILS, BOX CULVERT, HEADWALL, AND WINGWALL CONSTRUCTION DETAILS, AND BOX CULVERT BEDDING AND EXCAVATION LIMITS.
 - CONTRACTOR SHALL GROUT ALL CURB INLETS AND JUNCTION BOXES TO PROVIDE FOR POSITIVE DRAINAGE.
 - EARTHEN CHANNELS WILL BE VEGETATED BY SEEDING OR SODDING. 85% OF THE CHANNEL SURFACE MUST HAVE ESTABLISHED VEGETATION BEFORE THE CITY OF SAN ANTONIO WILL ACCEPT.
 - CONTRACTOR SHALL MATCH TOP OF CHANNEL TO NATURAL GROUND AND MAINTAIN A MINIMUM CHANNEL DEPTH OF "D" AS SHOWN IN THE PROFILE.
- TRENCH EXCAVATION SAFETY PROTECTION:**
- CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.
- CAUTION!!**
- CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

Date: May 21, 2024, 5:52pm User: ID: cda2b5
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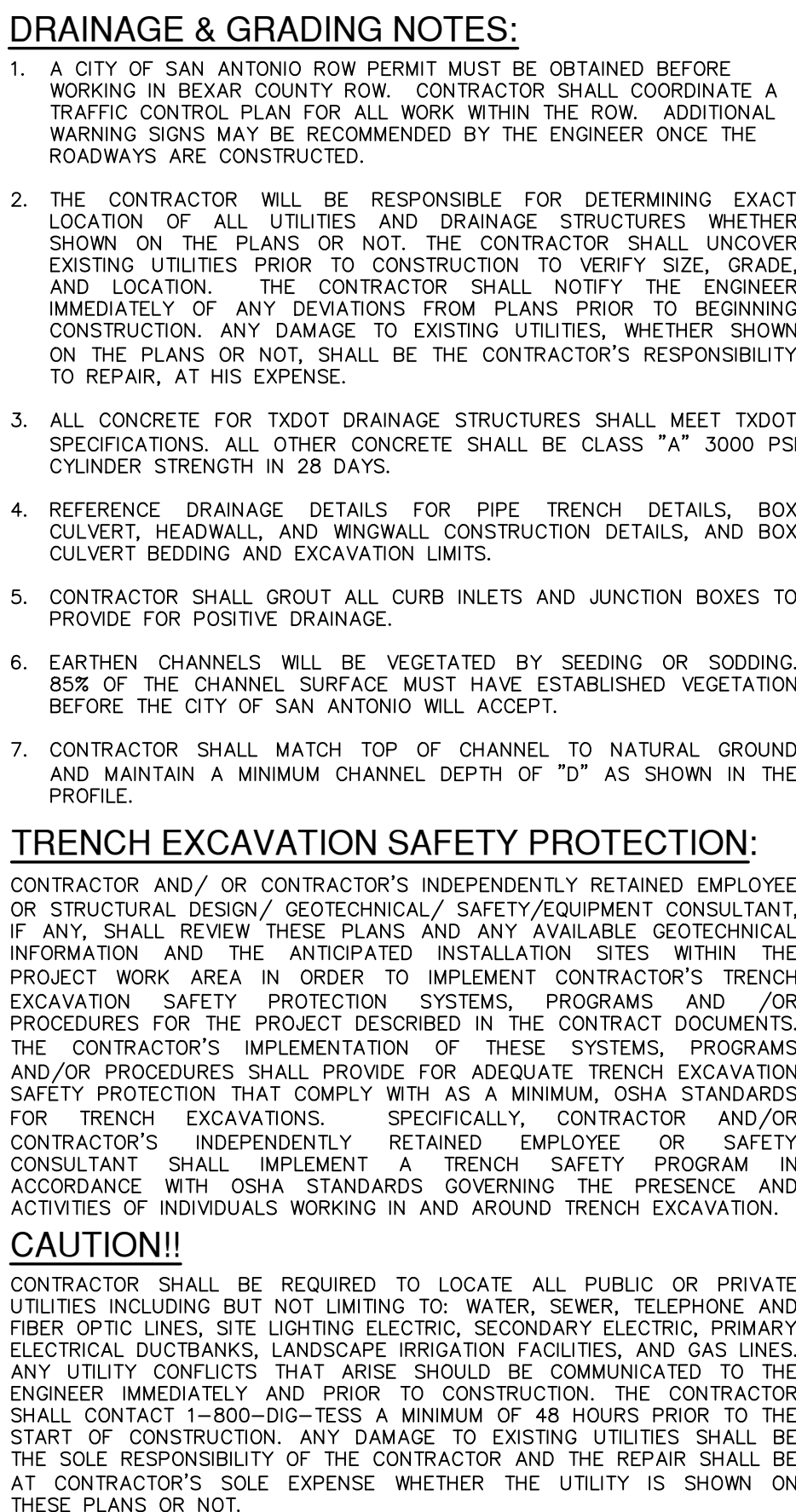
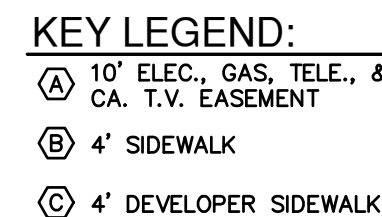
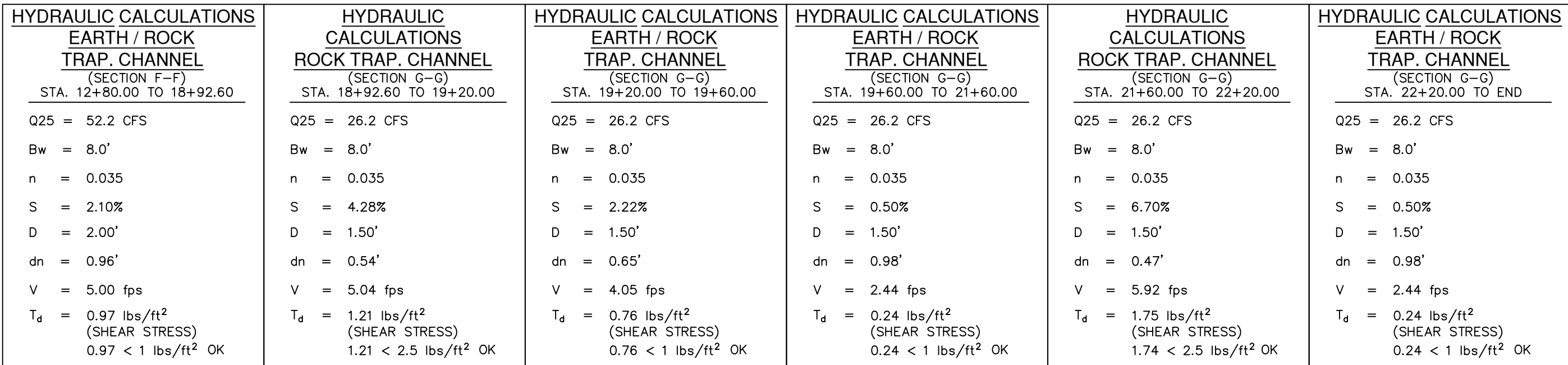


HYDRAULIC CALCULATIONS	
EARTH / ROCK TRAP. CHANNEL	
(SECTION F-F)	
STA. 12+80.00 TO 18+92.60	
Q25 =	52.2 CFS
Bw =	8.0'
n =	0.035
S =	2.10%
D =	2.00'
dn =	0.96'
v =	5.00 fps
Td =	0.97 lbs/ft ² (SHEAR STRESS)
	0.97 < 1 lbs/ft ² OK



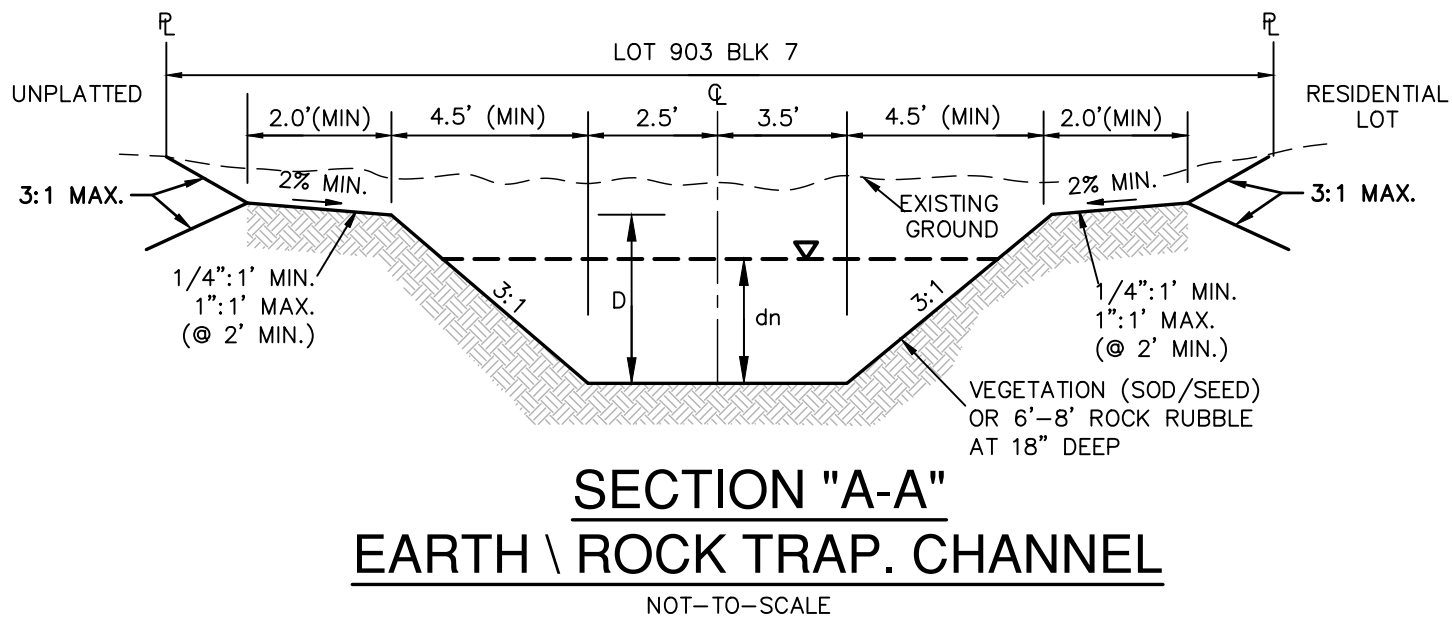
- DRAINAGE & GRADING NOTES:**
- A CITY OF SAN ANTONIO ROW PERMIT MUST BE OBTAINED BEFORE WORKING IN BEAR COUNTY ROW. CONTRACTOR SHALL COORDINATE A TRAFFIC CONTROL PLAN FOR ALL WORK WITHIN THE ROW. ADDITIONAL WARNING SIGNS MAY BE RECOMMENDED BY THE ENGINEER ONCE THE ROADWAYS ARE CONSTRUCTED.
 - THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL UTILITIES AND DRAINAGE STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION TO VERIFY SIZE, GRADE, AND LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS EXPENSE.
 - ALL CONCRETE FOR TxDOT DRAINAGE STRUCTURES SHALL MEET TxDOT SPECIFICATIONS. ALL OTHER CONCRETE SHALL BE CLASS "A" 3000 PSI CYLINDER STRENGTH IN 28 DAYS.
 - REFERENCE DRAINAGE DETAILS FOR PIPE TRENCH DETAILS, BOX CULVERT, HEADWALL, AND WINGWALL CONSTRUCTION DETAILS, AND BOX CULVERT BEDDING AND EXCAVATION LIMITS.
 - CONTRACTOR SHALL GROUT ALL CURB INLETS AND JUNCTION BOXES TO PROVIDE FOR POSITIVE DRAINAGE.
 - EARTHEN CHANNELS WILL BE VEGETATED BY SEEDING OR SODDING. 85% OF THE CHANNEL SURFACE MUST HAVE ESTABLISHED VEGETATION BEFORE THE CITY OF SAN ANTONIO WILL ACCEPT.
 - CONTRACTOR SHALL MATCH TOP OF CHANNEL TO NATURAL GROUND AND MAINTAIN A MINIMUM CHANNEL DEPTH OF "D" AS SHOWN IN THE PROFILE.
- TRENCH EXCAVATION SAFETY PROTECTION:**
- CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.
- CAUTION!!**
- CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

DATE	
NO.	REVISION
Jonathan D. Adams 5-21-24	
PAPE-DAWSON ENGINEERS 2000 NW LOOP 410 SAN ANTONIO, TX 78213 210.375.9000 TEXAS ENGINEERING FIRM #470 TEXAS SURVEYING FIRM #1008600	
SMILEY TRACT UNIT 3 & 4 SAN ANTONIO, TEXAS	
DRAIN "B" ~ STA. 14+40.00 TO STA. 18+60.00 DRAIN PLAN & PROFILE	
PLAT NO.	24-11800067
JOB NO.	13316-03
DATE	MAY 2024
DRAWN	CB
CHECKED	AS
SHEET	C1.06



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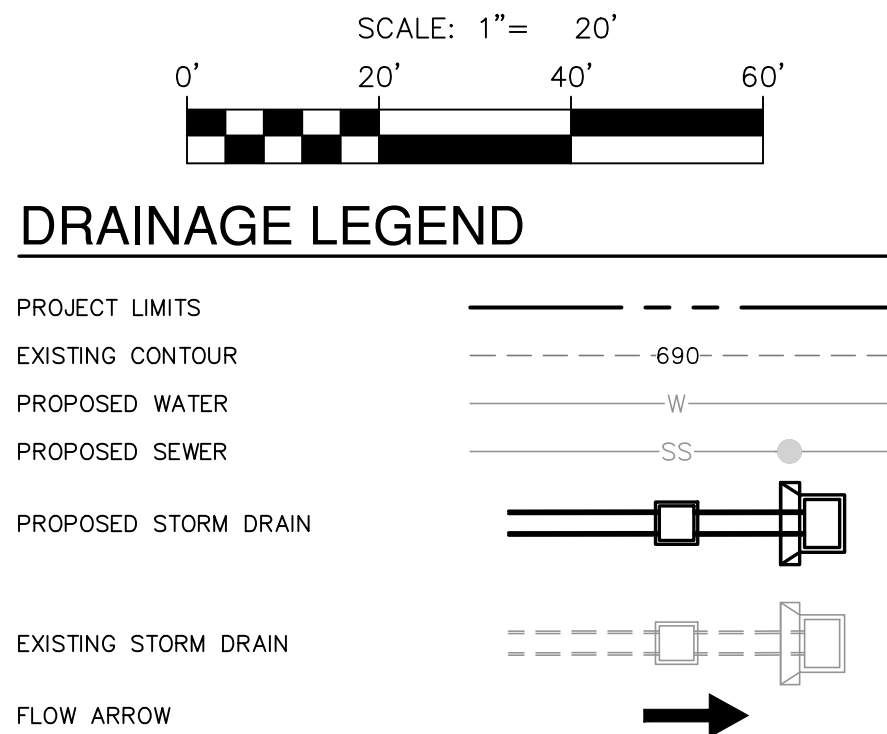
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HYDRAULIC CALCULATIONS EARTH / ROCK TRAP CHANNEL (SECTION A-A) STA. 1+04.00 TO 1+11.94
Q25 = 12.3 CFS
Bw = 6.0'
n = 0.035
S = 0.50%
D = 2.00'
dn = 0.74'
V = 2.02 fps
T _d = 0.18 lbs/ft ² (SHEAR STRESS)
0.18 < 1 lbs/ft ² OK

HYDRAULIC CALCULATIONS EARTH TRAP CHANNEL (SECTION A-A) STA. 1+11.94 TO 2+50.00
Q25 = 12.3 CFS
Bw = 6.0'
n = 0.035
S = 4.56%
D = 1.50'
dn = 0.40'
V = 4.27 fps
T _d = 0.96 lbs/ft ² (SHEAR STRESS)
0.96 < 1 lbs/ft ² OK

HYDRAULIC CALCULATIONS EARTH TRAP CHANNEL (SECTION A-A) STA. 2+50.00 TO 5+30.00
Q25 = 12.3 CFS
Bw = 6.0'
n = 0.035
S = 0.50%
D = 1.50'
dn = 0.74'
V = 2.02 fps
T _d = 0.18 lbs/ft ² (SHEAR STRESS)
0.18 < 1 lbs/ft ² OK

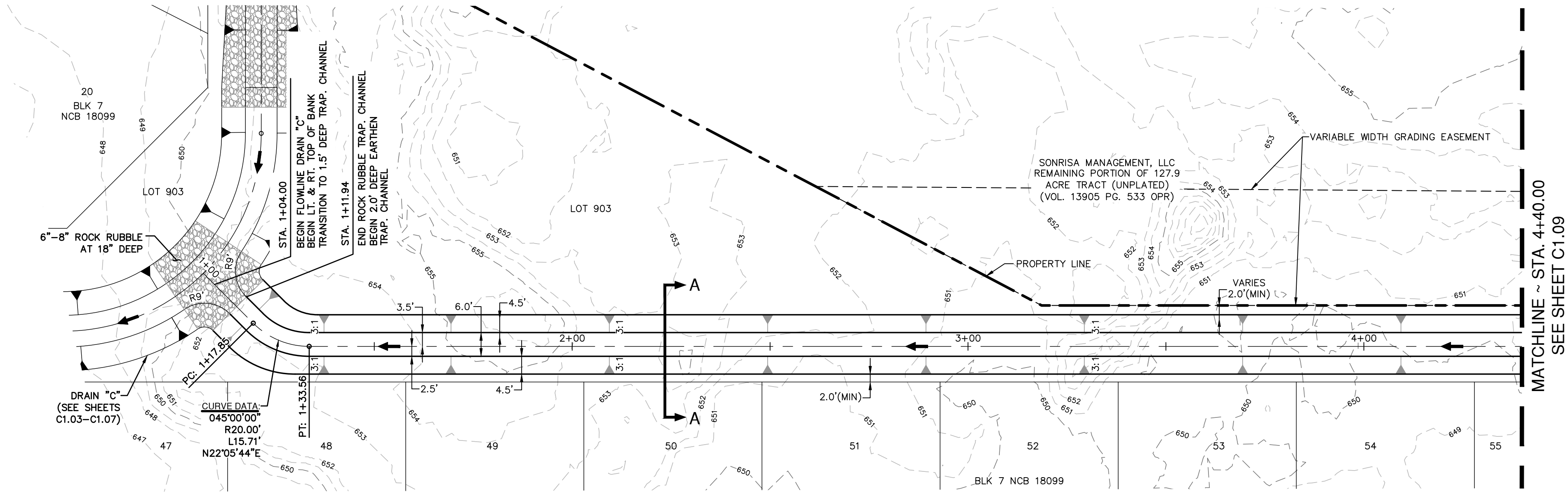


KEY LEGEND:

10' ELEC., GAS, TELE., &
CA. T.V. EASEMENT

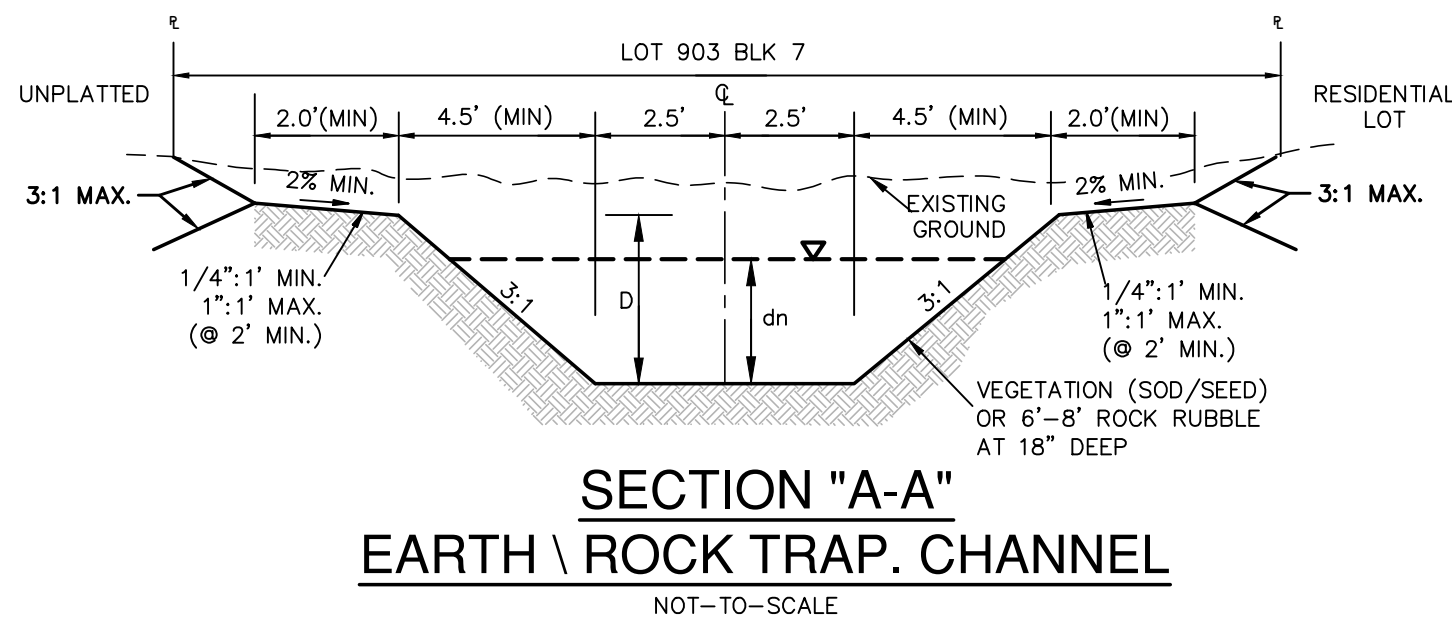
4' SIDEWALK

4' DEVELOPER SIDEWALK

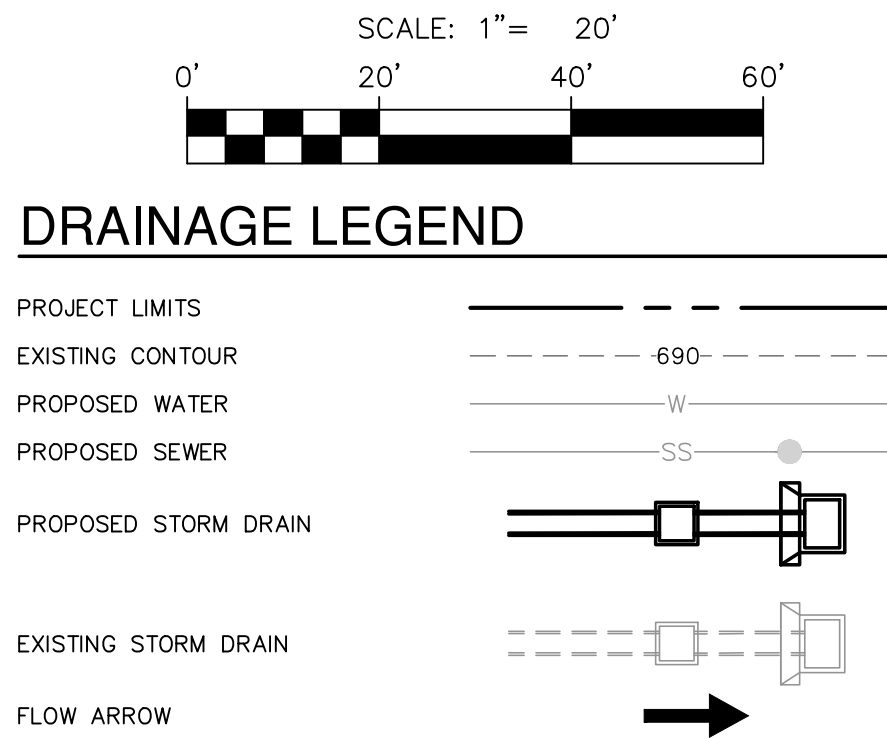


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HYDRAULIC CALCULATIONS EARTH TRAP. CHANNEL (SECTION A-A) STA. 2+50.00 TO 5+30.00	HYDRAULIC CALCULATIONS ROCK TRAP. CHANNEL (SECTION A-A) STA. 5+30.00 TO 5+80.00	HYDRAULIC CALCULATIONS ROCK TRAP. CHANNEL (SECTION A-A) STA. 5+80.00 TO 6+10.00	HYDRAULIC CALCULATIONS ROCK TRAP. CHANNEL (SECTION A-A) STA. 6+10.00 TO 6+40.00	HYDRAULIC CALCULATIONS EARTH / ROCK TRAP. CHANNEL (SECTION A-A) STA. 6+40.00 TO END
Q25 = 12.3 CFS Bw = 6.0' n = 0.035 S = 0.50% D = 1.50' dn = 0.74' V = 2.02 fps T _d = 0.18 lbs/ft ² (SHEAR STRESS) 0.18 < 1 lbs/ft ² OK	Q25 = 12.3 CFS Bw = 6.0' n = 0.035 S = 6.79% D = 1.50' dn = 0.36' V = 4.83 fps T _d = 1.30 lbs/ft ² (SHEAR STRESS) 1.30 < 2.5 lbs/ft ² OK	Q25 = 12.3 CFS Bw = 6.0' n = 0.035 S = 0.50% D = 1.50' dn = 0.74' V = 2.02 fps T _d = 0.18 lbs/ft ² (SHEAR STRESS) 0.18 < 2.5 lbs/ft ² OK	Q25 = 12.3 CFS Bw = 6.0' n = 0.035 S = 6.31% D = 1.50' dn = 0.36' V = 4.83 fps T _d = 1.21 lbs/ft ² (SHEAR STRESS) 1.21 < 2.5 lbs/ft ² OK	Q25 = 12.3 CFS Bw = 6.0' n = 0.035 S = 1.10% D = 1.50' dn = 0.59' V = 2.68 fps T _d = 0.32 lbs/ft ² (SHEAR STRESS) 0.32 < 1 lbs/ft ² OK

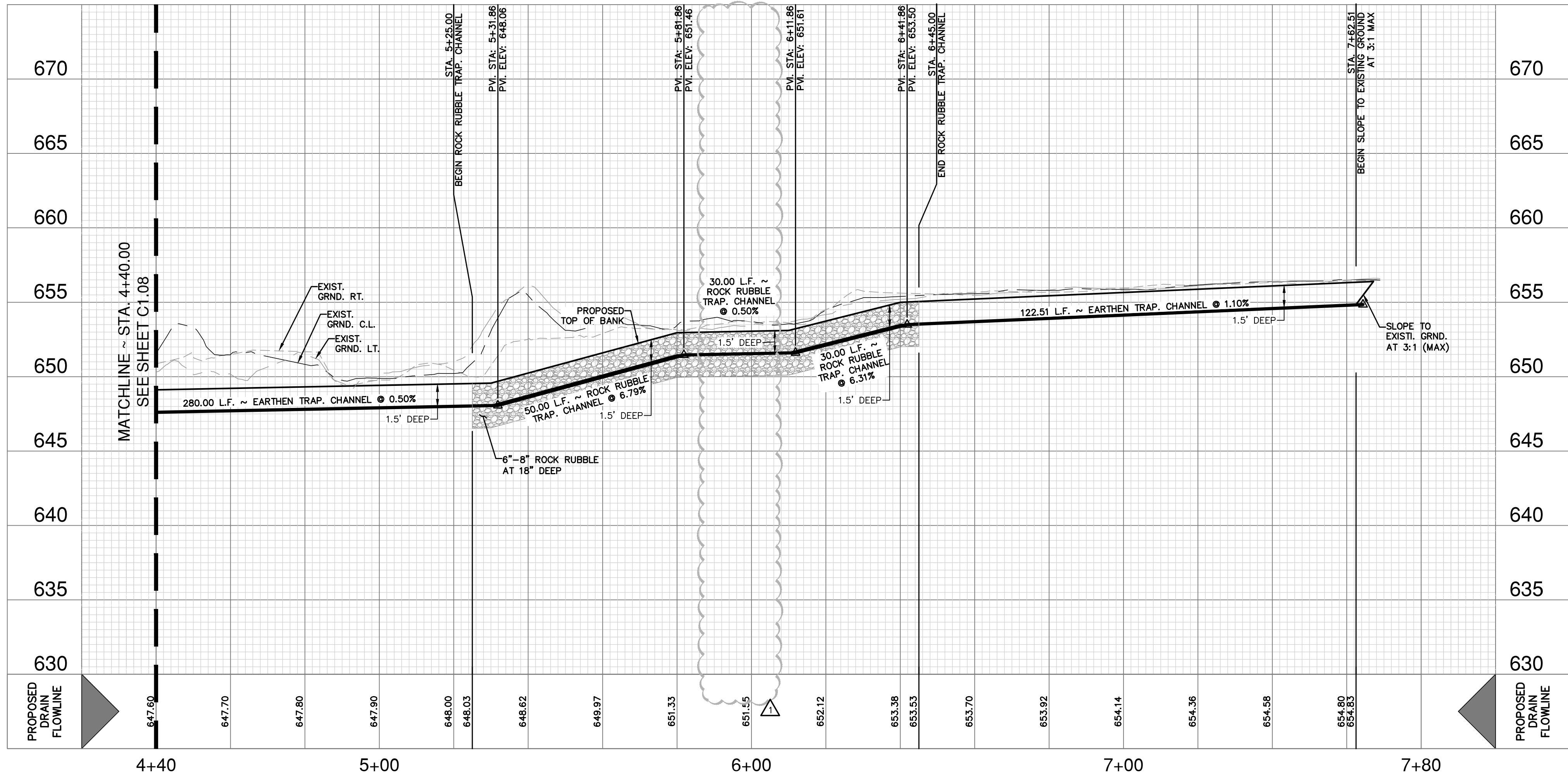
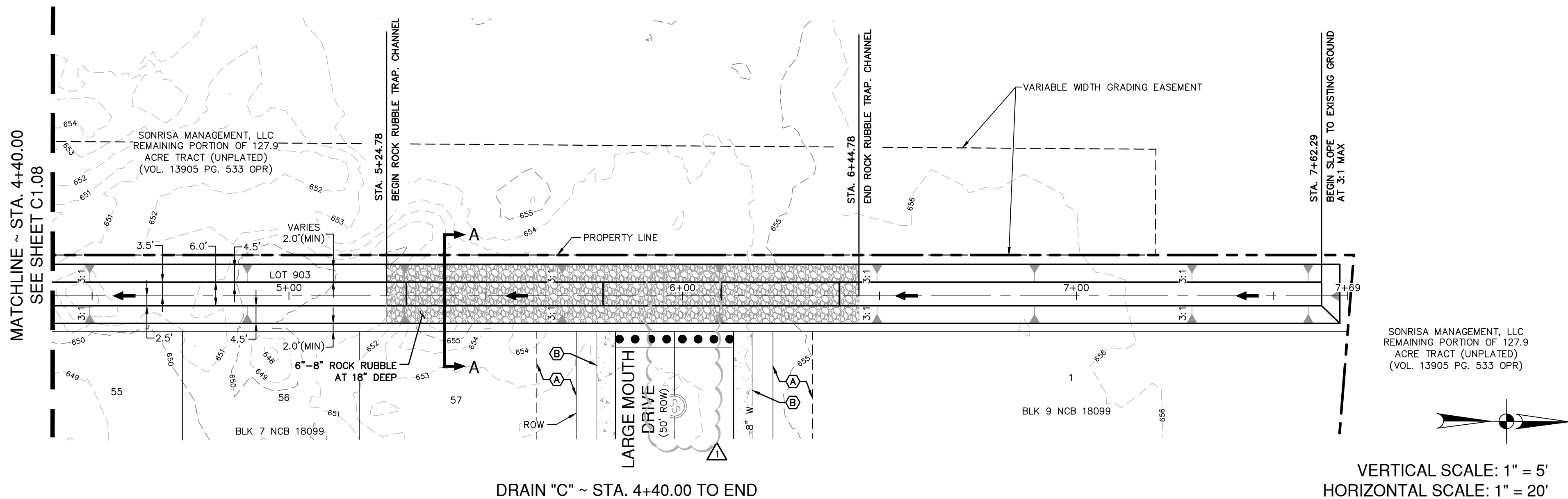


KEY LEGEND:

A 10' ELEC., GAS, TELE., & CA. T.V. EASEMENT

B 4' SIDEWALK

C 4' DEVELOPER SIDEWALK



- DRAINAGE & GRADING NOTES:
- A CITY OF SAN ANTONIO ROW PERMIT MUST BE OBTAINED BEFORE WORKING IN BEXAR COUNTY ROW. CONTRACTOR SHALL COORDINATE A TRAFFIC CONTROL PLAN FOR ALL WORK WITHIN THE ROW. ADDITIONAL WARNING SIGNS MAY BE RECOMMENDED BY THE ENGINEER ONCE THE ROADWAYS ARE CONSTRUCTED.
 - THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL UTILITIES AND DRAINAGE STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION TO VERIFY SIZE, GRADE, AND LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS EXPENSE.
 - ALL CONCRETE FOR TxDOT DRAINAGE STRUCTURES SHALL MEET TxDOT SPECIFICATIONS. ALL OTHER CONCRETE SHALL BE CLASS "A" 3000 PSI CYLINDER STRENGTH IN 28 DAYS.
 - REFERENCE DRAINAGE DETAILS FOR PIPE TRENCH DETAILS, BOX CULVERT, HEADWALL, AND WINGWALL CONSTRUCTION DETAILS, AND BOX CULVERT BEDDING AND EXCAVATION LIMITS.
 - CONTRACTOR SHALL GROUT ALL CURB INLETS AND JUNCTION BOXES TO PROVIDE FOR POSITIVE DRAINAGE.
 - EARTHEN CHANNELS WILL BE VEGETATED BY SEEDING OR SODDING. 85% OF THE CHANNEL SURFACE MUST HAVE ESTABLISHED VEGETATION BEFORE THE CITY OF SAN ANTONIO WILL ACCEPT.
 - CONTRACTOR SHALL MATCH TOP OF CHANNEL TO NATURAL GROUND AND MAINTAIN A MINIMUM CHANNEL DEPTH OF "D" AS SHOWN IN THE PROFILE.

TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

CAUTION!!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

PAPE-DAWSON
ENGINEERS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028900

SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS

DRAIN "C" ~ STA. 4+40.00 TO END
DRAIN PLAN & PROFILE

PLAT NO. 24-11800067

JOB NO. 13316-03

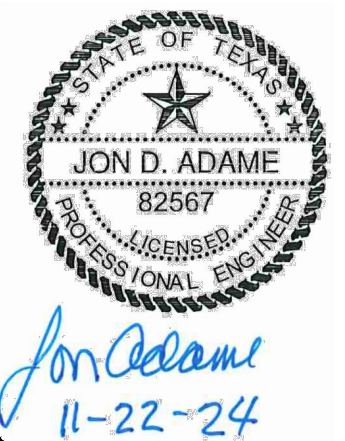
DATE JULY 2024

DRAWN CB

CHECKED AS DRAWN CB

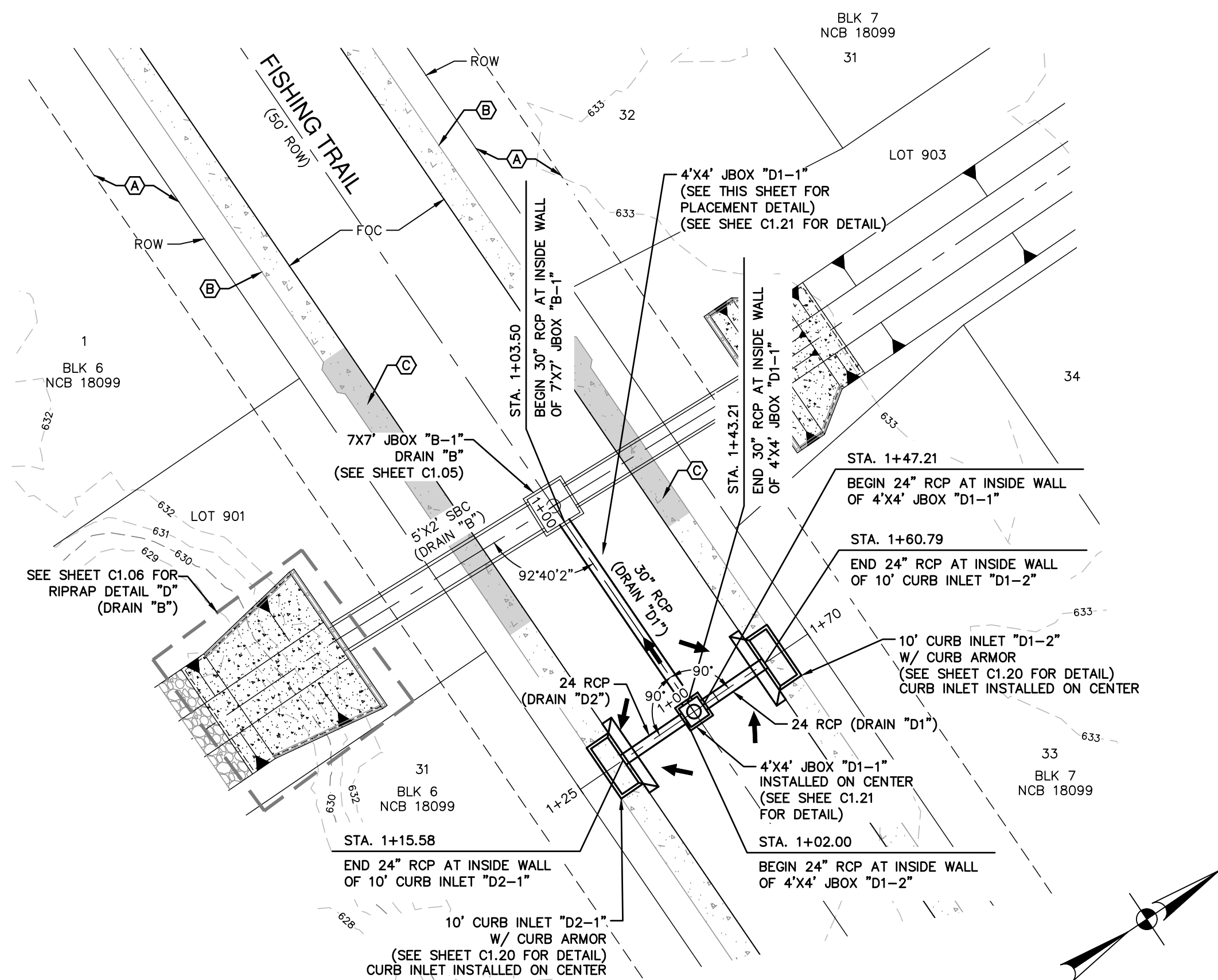
SHEET C1.09

NO.	REVISION	DATE
1	SEWER CROSSING REMOVED	11/22/24

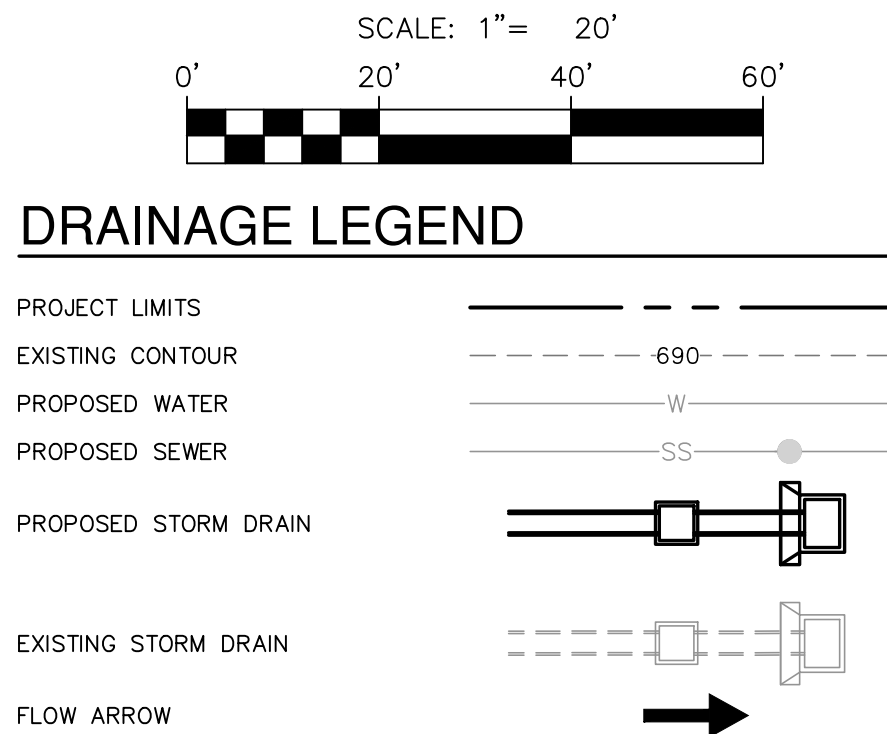


Date: May 21, 2024, 5:52pm User: b-adaeme
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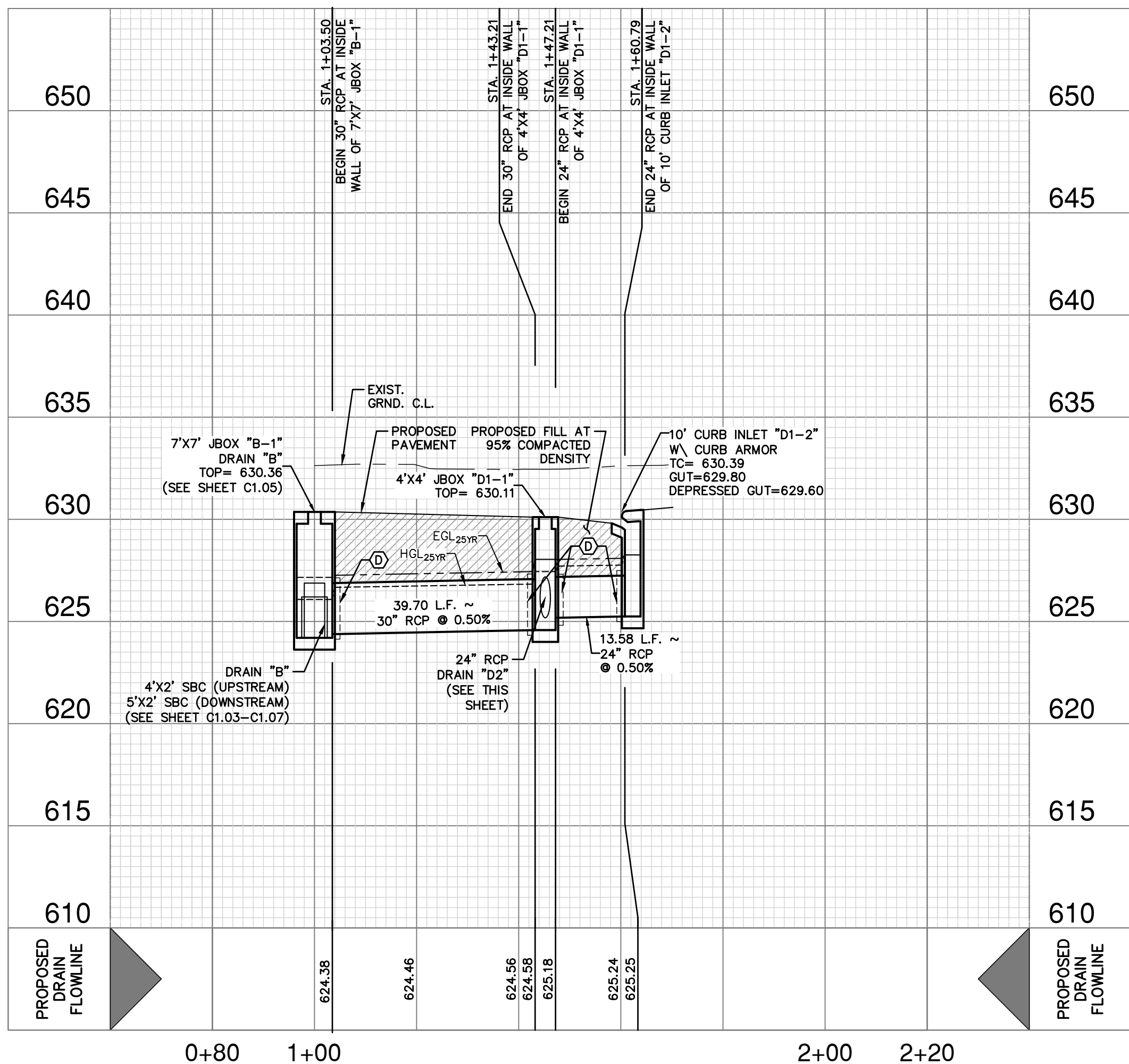
HYDRAULIC CALCULATIONS CURB INLET "D1-2" & "D2-1" (DRAIN "D1" & "D2")	
Q25 =	28.3 CFS (14.15 EACH INLET)
Bw =	C X L X h^(3/2) (WIER EQ.)
C =	3.087
h =	0.79 FT
C =	$\frac{Q}{C \times L \times h^{3/2}}$
Lcal =	14.15 CFS
Lcal =	6.53 FT
L =	USE 10' CURB INLET (EACH INLET)



KEY LEGEND:	
(A)	10' ELEC., GAS, TELE., & CA. T.V. EASEMENT
(B)	4' SIDEWALK
(C)	4' DEVELOPER SIDEWALK
(D)	CONCRETE COLLARS (SEE SHEET C1.21 FOR DETAIL)

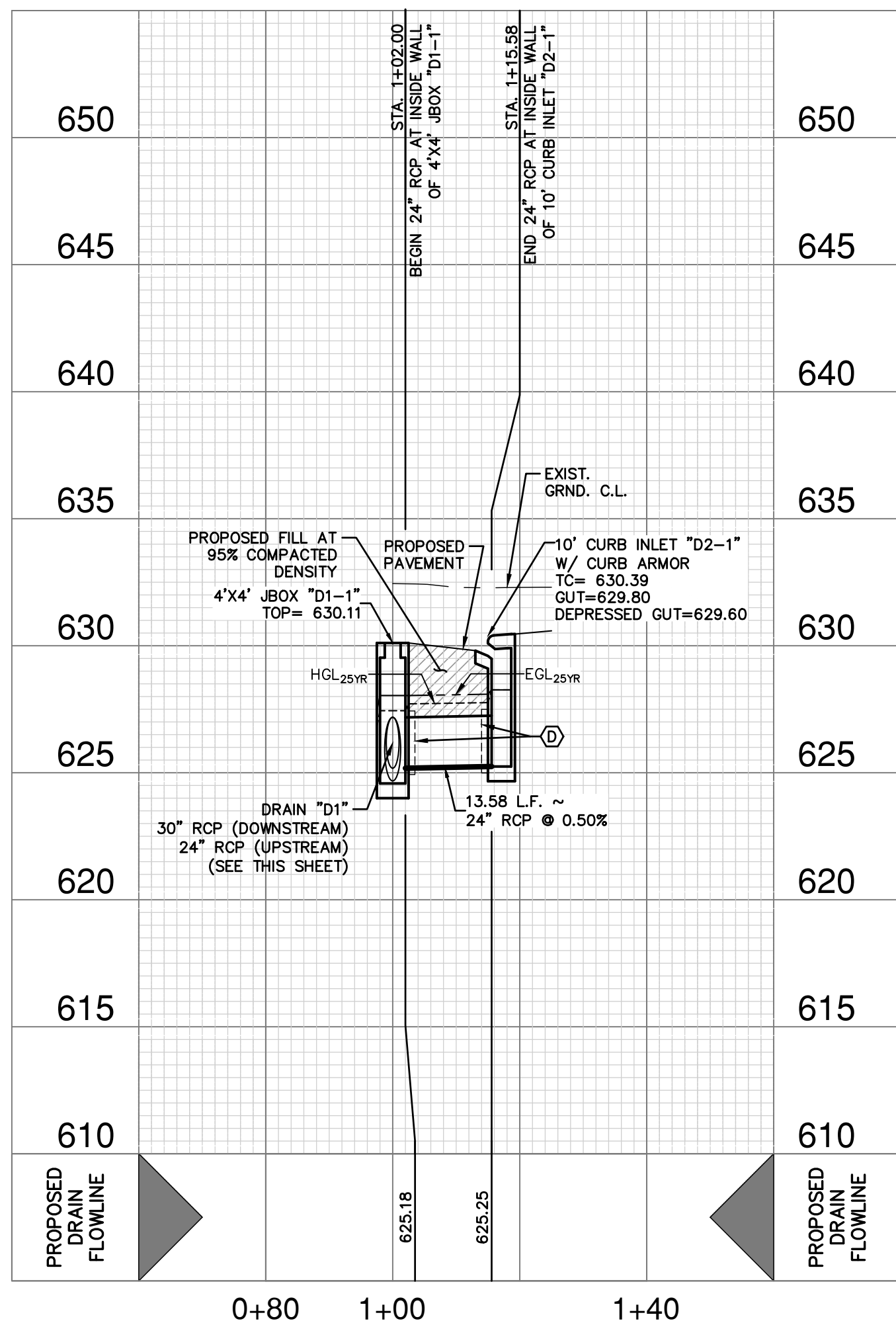
DRAIN "D1" ~ STA. 1+00.00 TO END

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 20'



DRAIN "D2" ~ STA. 1+00.00 TO END

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 20'



DRAINAGE & GRADING NOTES:

- A CITY OF SAN ANTONIO ROW PERMIT MUST BE OBTAINED BEFORE WORKING IN BEJAR COUNTY ROW. CONTRACTOR SHALL COORDINATE A TRAFFIC CONTROL PLAN FOR ALL WORK WITHIN THE ROW. ADDITIONAL WARNING SIGNS MAY BE RECOMMENDED BY THE ENGINEER ONCE THE ROADWAYS ARE CONSTRUCTED.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL UTILITIES AND DRAINAGE STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION TO VERIFY SIZE, GRADE, AND LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS EXPENSE.
- ALL CONCRETE FOR TxDOT DRAINAGE STRUCTURES SHALL MEET TxDOT SPECIFICATIONS. ALL OTHER CONCRETE SHALL BE CLASS "A" 3000 PSI CYLINDER STRENGTH IN 28 DAYS.
- REFERENCE DRAINAGE DETAILS FOR PIPE TRENCH DETAILS, BOX CULVERT, HEADWALL, AND WINGWALL CONSTRUCTION DETAILS, AND BOX CULVERT BEDDING AND EXCAVATION LIMITS.
- CONTRACTOR SHALL GROUT ALL CURB INLETS AND JUNCTION BOXES TO PROVIDE FOR POSITIVE DRAINAGE.
- EARTHEN CHANNELS WILL BE VEGETATED BY SEEDING OR SODDING. 85% OF THE CHANNEL SURFACE MUST HAVE ESTABLISHED VEGETATION BEFORE THE CITY OF SAN ANTONIO WILL ACCEPT.
- CONTRACTOR SHALL MATCH TOP OF CHANNEL TO NATURAL GROUND AND MAINTAIN A MINIMUM CHANNEL DEPTH OF "D" AS SHOWN IN THE PROFILE.

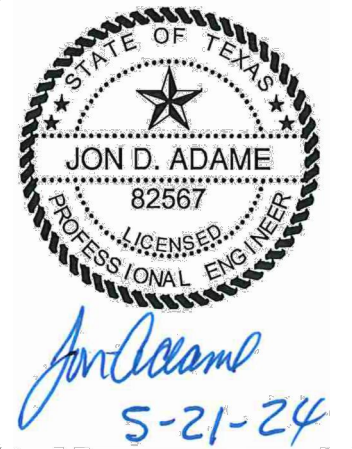
TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

CAUTION!!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

DATE	
NO.	REVISION

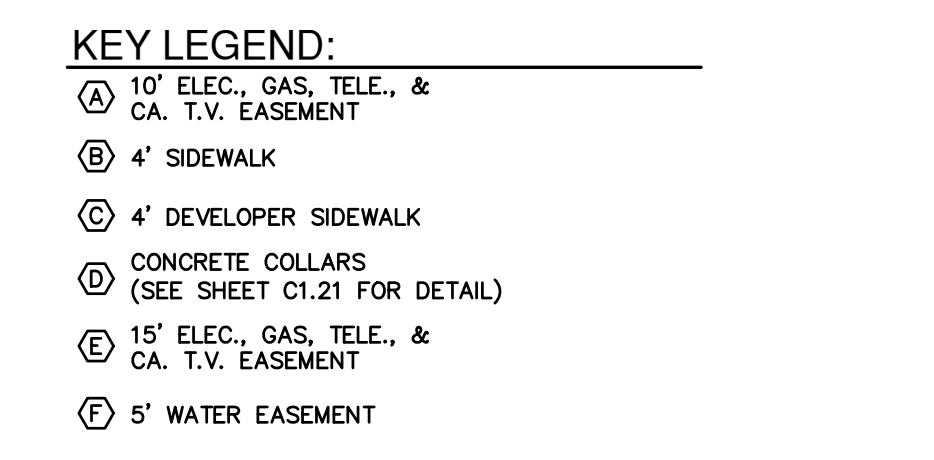
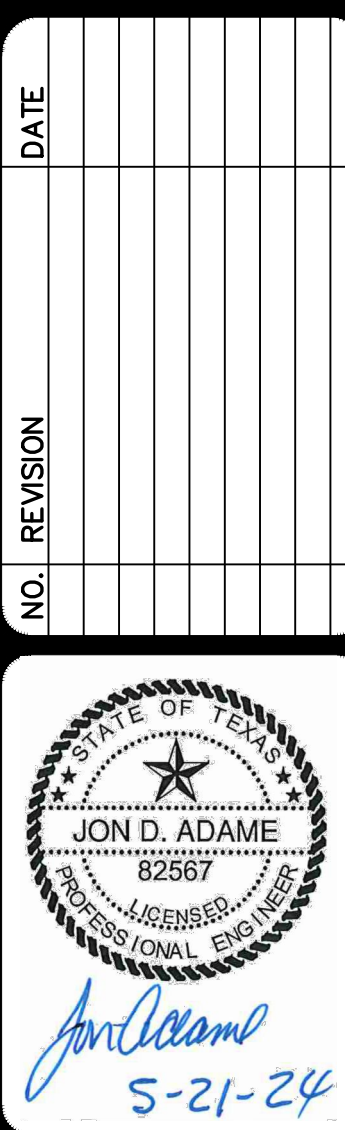


**PAPE-DAWSON
ENGINEERS**

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028600

SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS
DRAIN PLAN & PROFILE (DRAIN D1 & D2)
DRAIN "D2" ~ STA. 1+00.00 TO END
DRAIN PLAN & PROFILE

PLAT NO.	24-11800067
JOB NO.	13316-03
DATE	MAY 2024
DESIGNER	CB
CHECKED	AS DRAWN CB
SHEET	C1.10



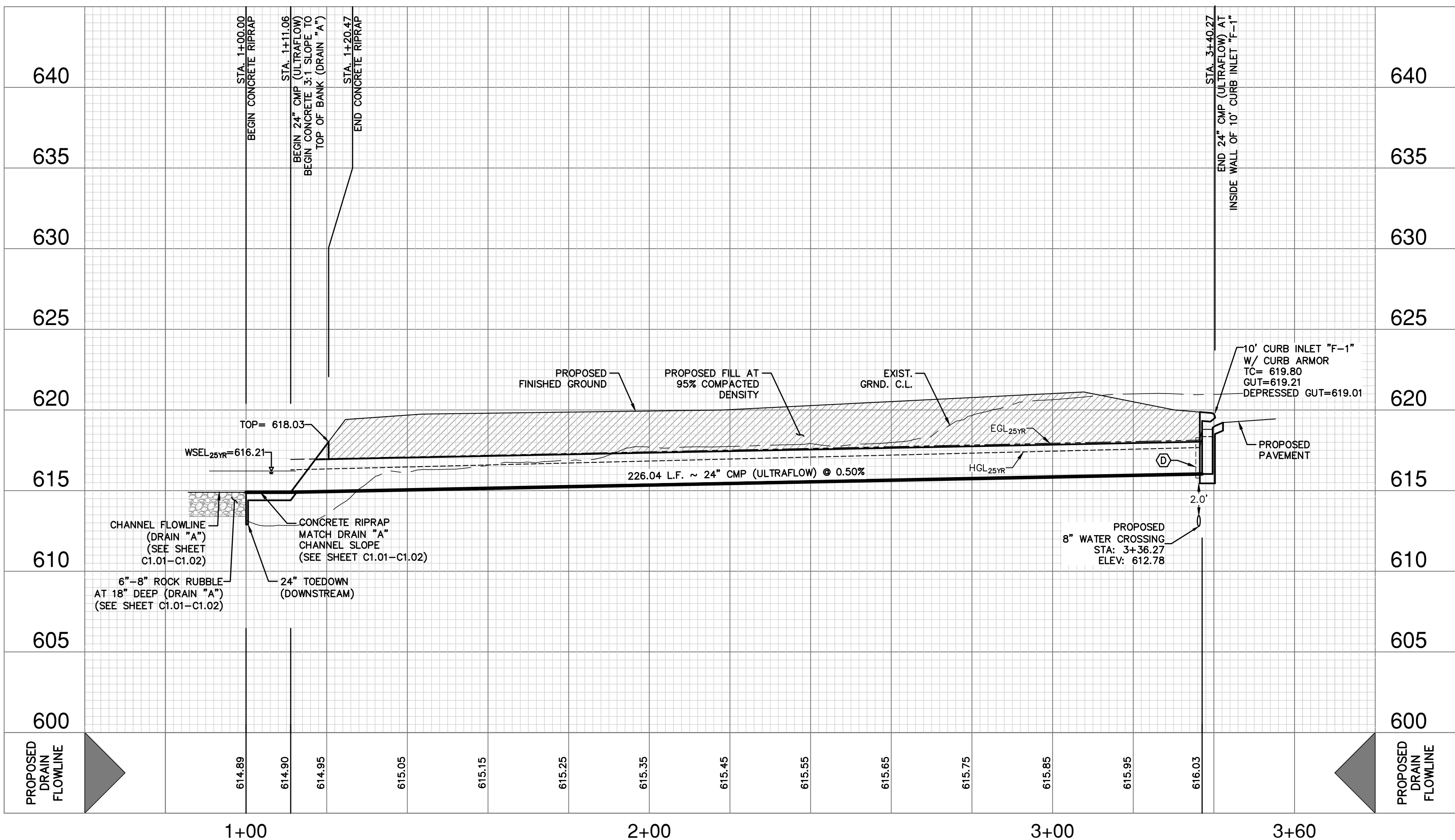
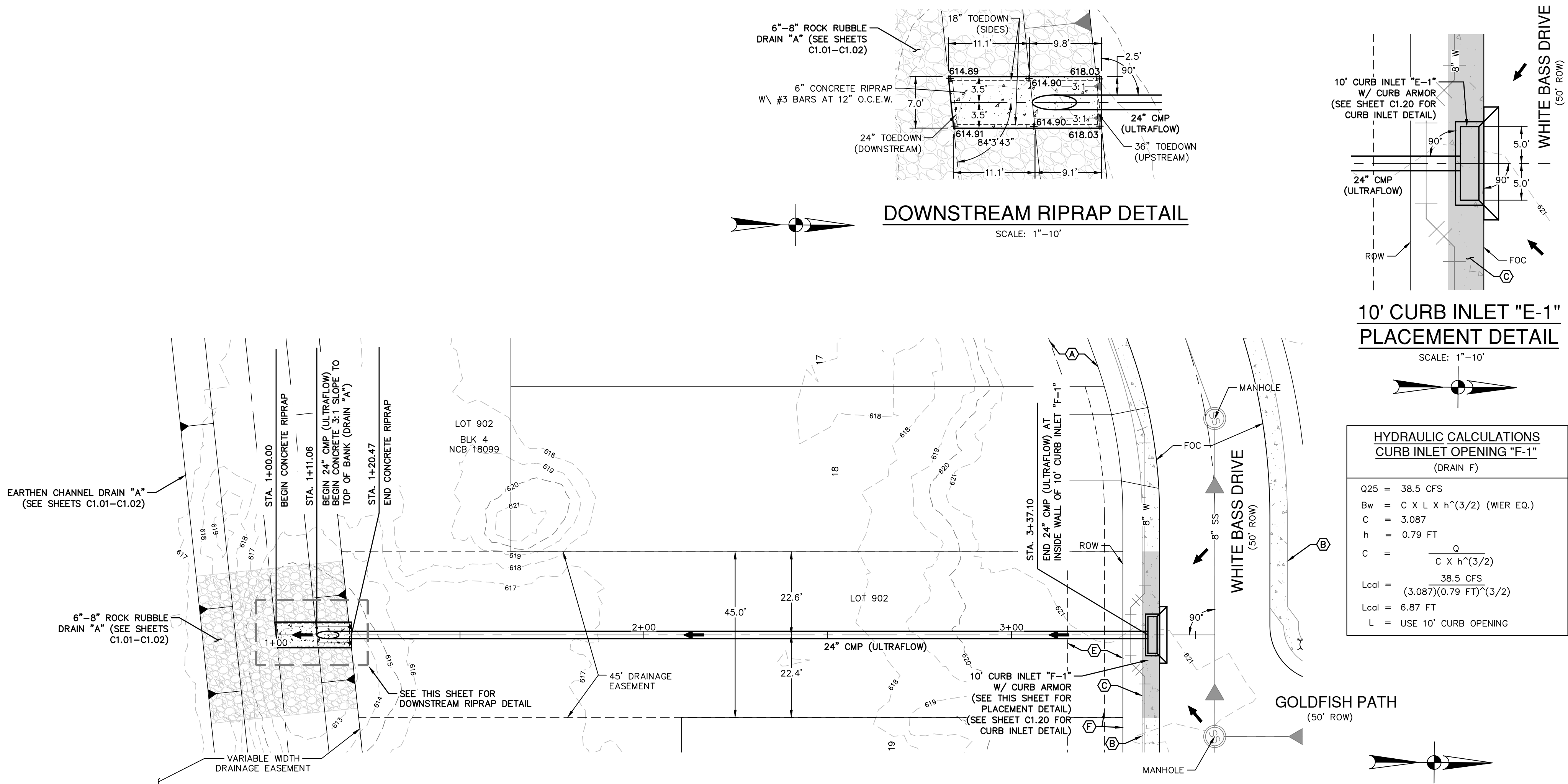
**PAPE-DAWSON
ENGINEERS**

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028600

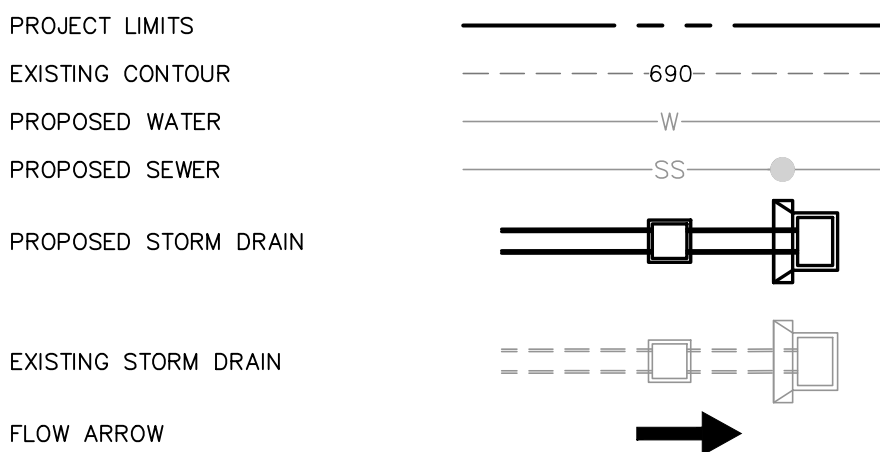
SMILEY TRACT UNIT 3 & 4	
SAN ANTONIO, TEXAS	
DRAIN "E" ~ STA. 1+00.00 TO END DRAIN PLAN & PROFILE	
PLAT NO.	24-11800067
JOB NO.	13316-03
DATE	MAY 2024
DESIGNER	CB
CHECKED	AS DRAWN CB
SHEET	C1.11

Printed: May 21, 2024, 5:53pm User: ID: cda4c7c
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DRAINAGE LEGEND



KEY LEGEND:

- A 10' ELEC., GAS, TELE., & CA. T.V. EASEMENT
- B 4' SIDEWALK
- C 4' DEVELOPER SIDEWALK
- D CONCRETE COLLARS (SEE SHEET C1.21 FOR DETAIL)
- E 15 ELEC., GAS, TELE., & CA. T.V. EASEMENT
- F 5' WATER EASEMENT

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NO.	REVISION	DATE



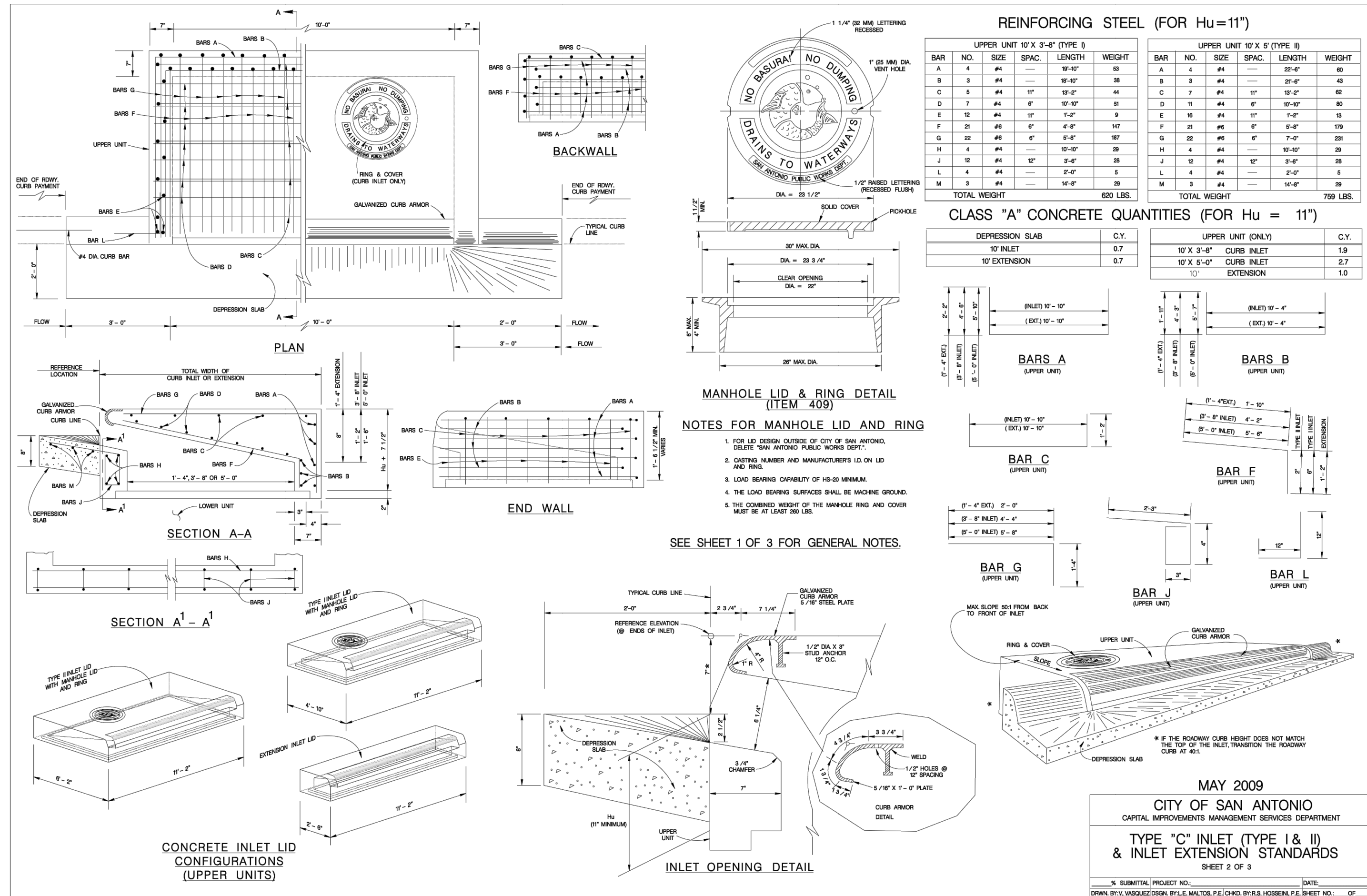
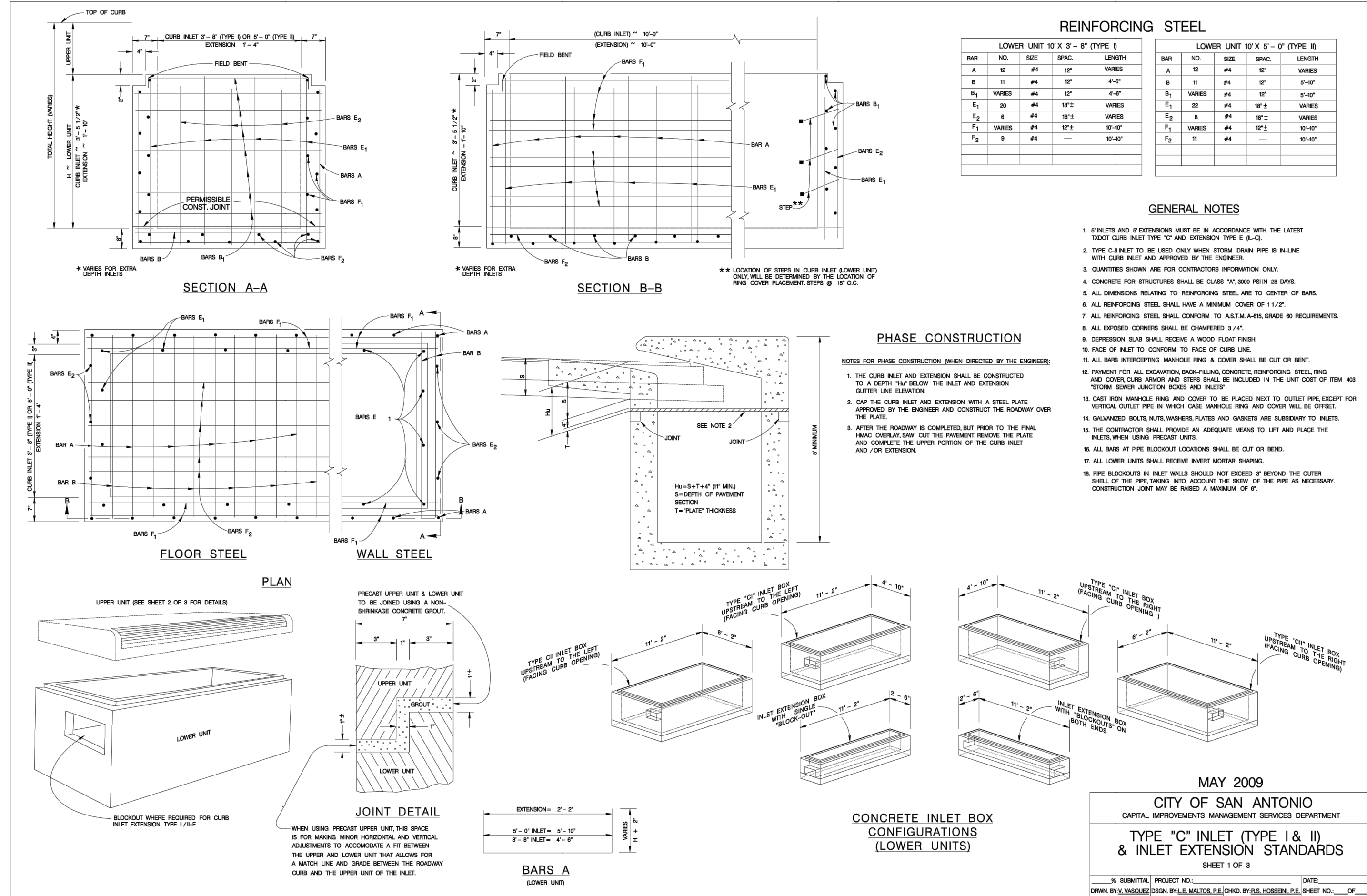
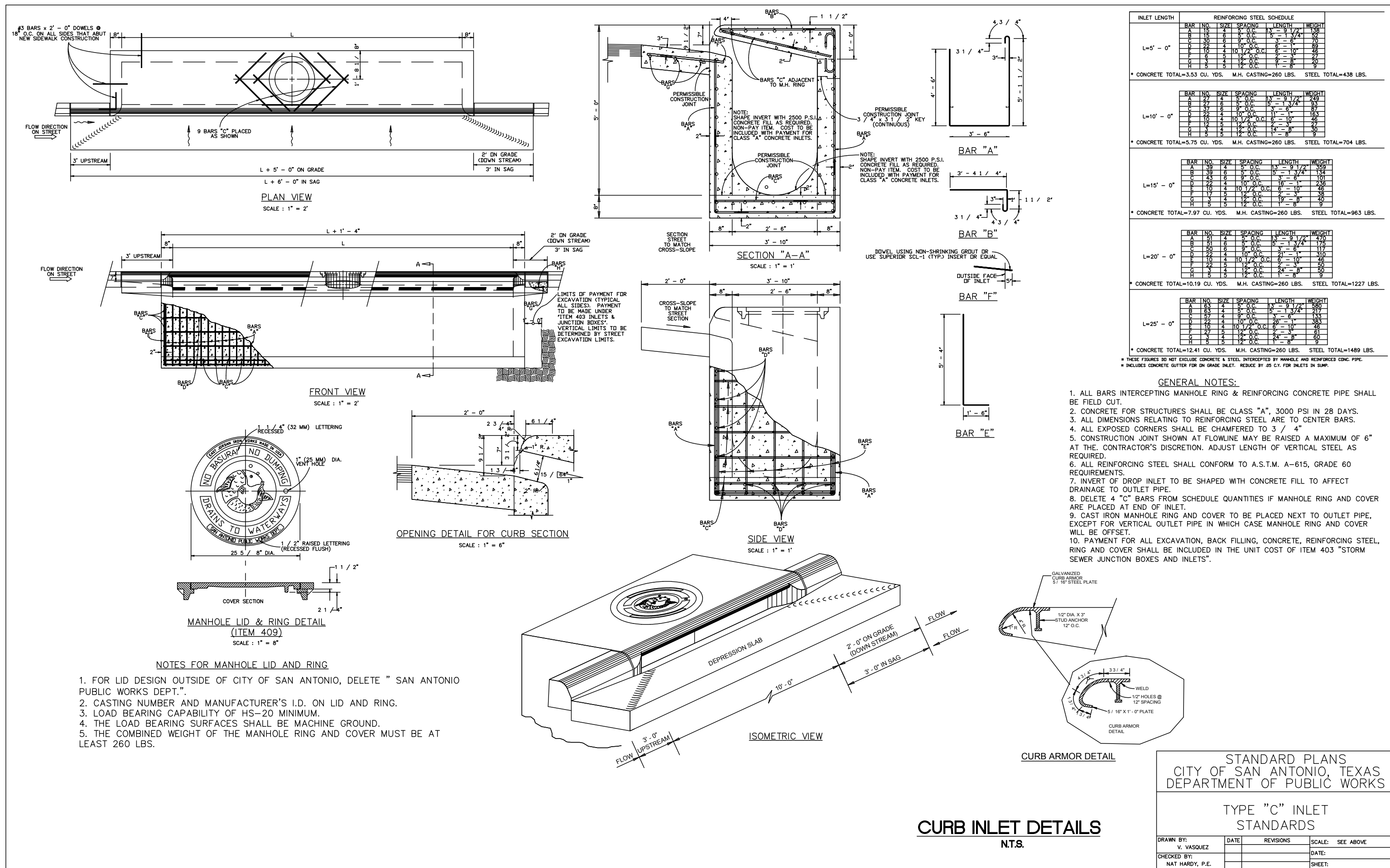
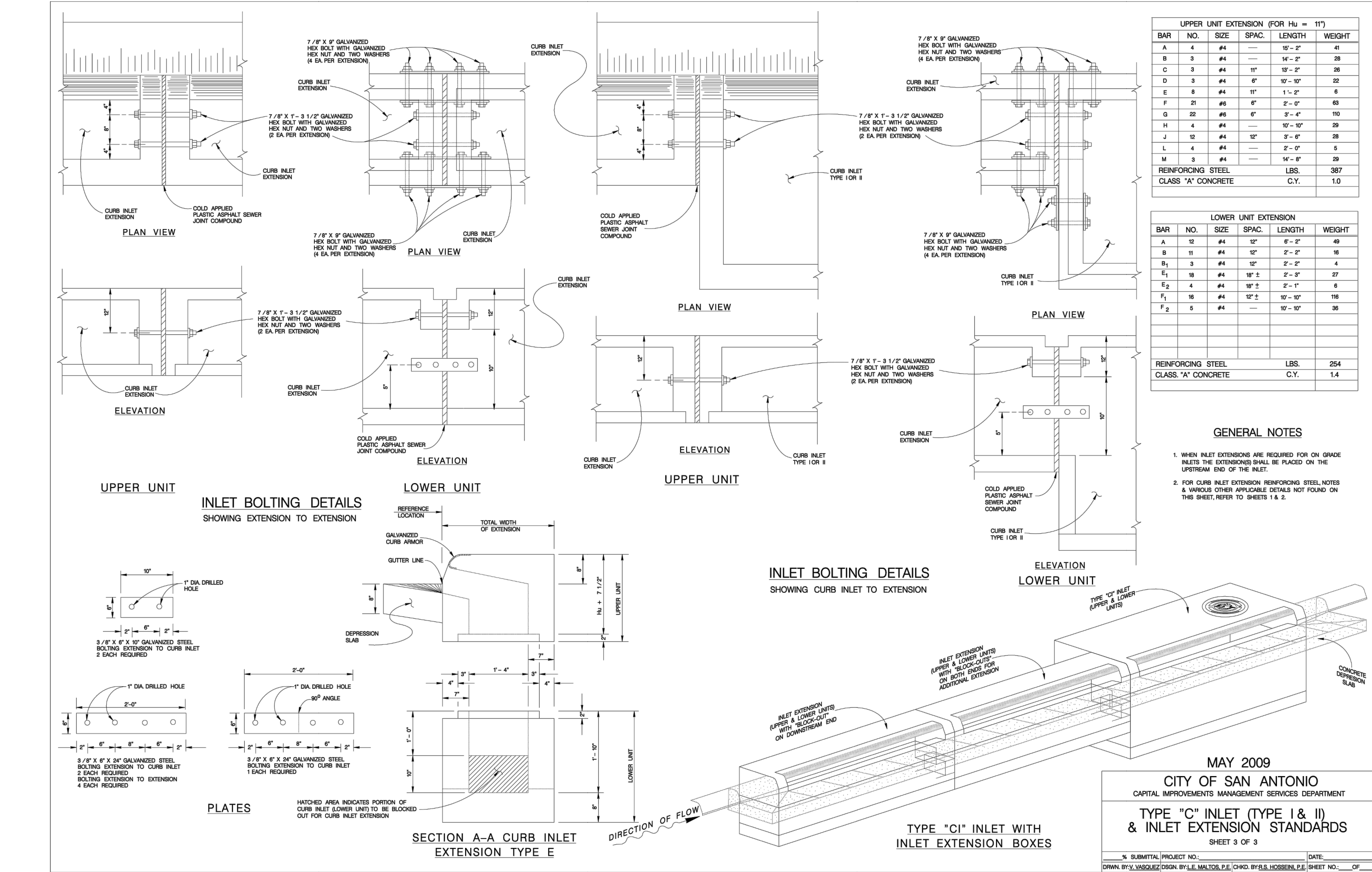
PAPE-DAWSON ENGINEERS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028600

SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS

DRAIN "F" ~ STA. 1+00.00 TO END
DRAIN PLAN & PROFILE


PLAT NO.	24-11800067
JOB NO.	13316-03
DATE	MAY 2024
DRAWN	CB
CHECKED	AS DRAWN CB
SHEET	C1.12



*ALL CURB INLETS TO BE INSTALLED WITH CURB ARMOR (SEE SHEET C1.21 FOR CURB ARMOR DETAILS)

DATE

NO. REVISION



Jon D. Adame
5-21-24

PAPE-DAWSON
ENGINEERS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008900

SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS

DRAIN DETAILS

PLAT NO. 24-11800067

JOB NO. 13316-03

DATE MAY 2024

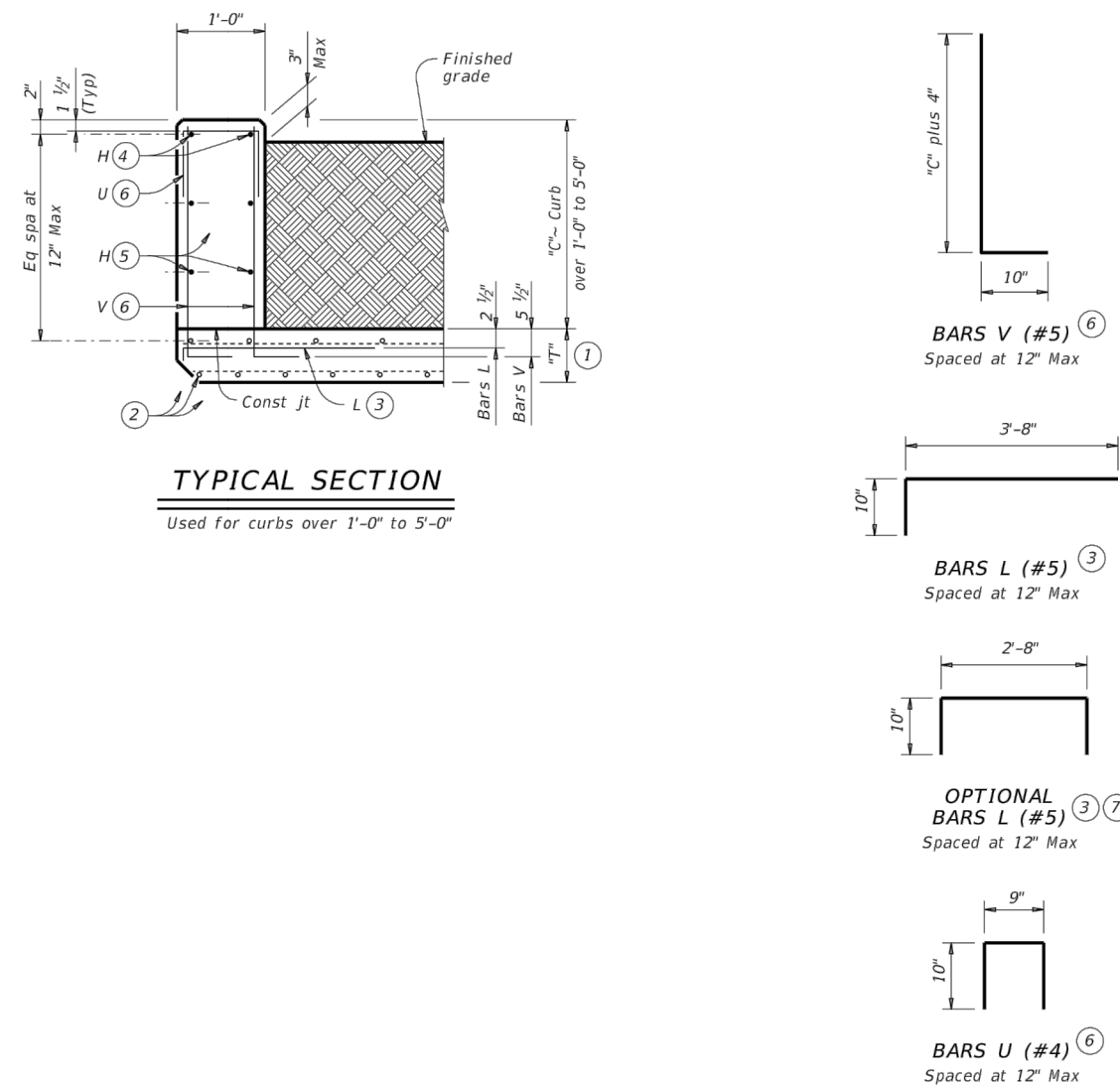
DESIGNER -

CHECKED - DRAWN -

SHEET C1.20

DATE: _____

DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act." No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.



Curb Height "C"	Conc (CY/LF)	Reinf Steel (Lb/LF)
1'-0"	0.037	10.4
1'-6"	0.056	14.5
2'-0"	0.074	15.6
2'-6"	0.093	18.0
3'-0"	0.111	19.0
3'-6"	0.130	21.3
4'-0"	0.148	22.4
4'-6"	0.167	24.8
5'-0"	0.185	25.9


- 1 Thickness of the culvert top slab thickness. For precast boxes use a minimum of 8" but see SCD-MD standard for additional details.
- 2 Adjust normal culvert slab bars as necessary to clear obstructions.
- 3 Main bars L as shown. Tie hook as shown. Maintain 12" max spacing.
- 4 Place normal culvert cross bars H#4) as shown. Adjust as necessary to clear obstructions.
- 5 Additional bars H#4) as required to maintain 12" max spacing.
- 6 Replace normal culvert cross bars K with one bar U and two bars V as shown. Maintain 12" max. Adjust length of bars V as necessary to maintain clear cover.
- 7 Optional bars L are to be used only for culverts with culverters with 3'-0" closure pipe.
- 8 Quantities shown are for Contractor's information only. Quantities are per linear foot of culvert. Quantities in table can be interpolated for other values (interpolate linearly, "C" quantity includes bars K when applicable).

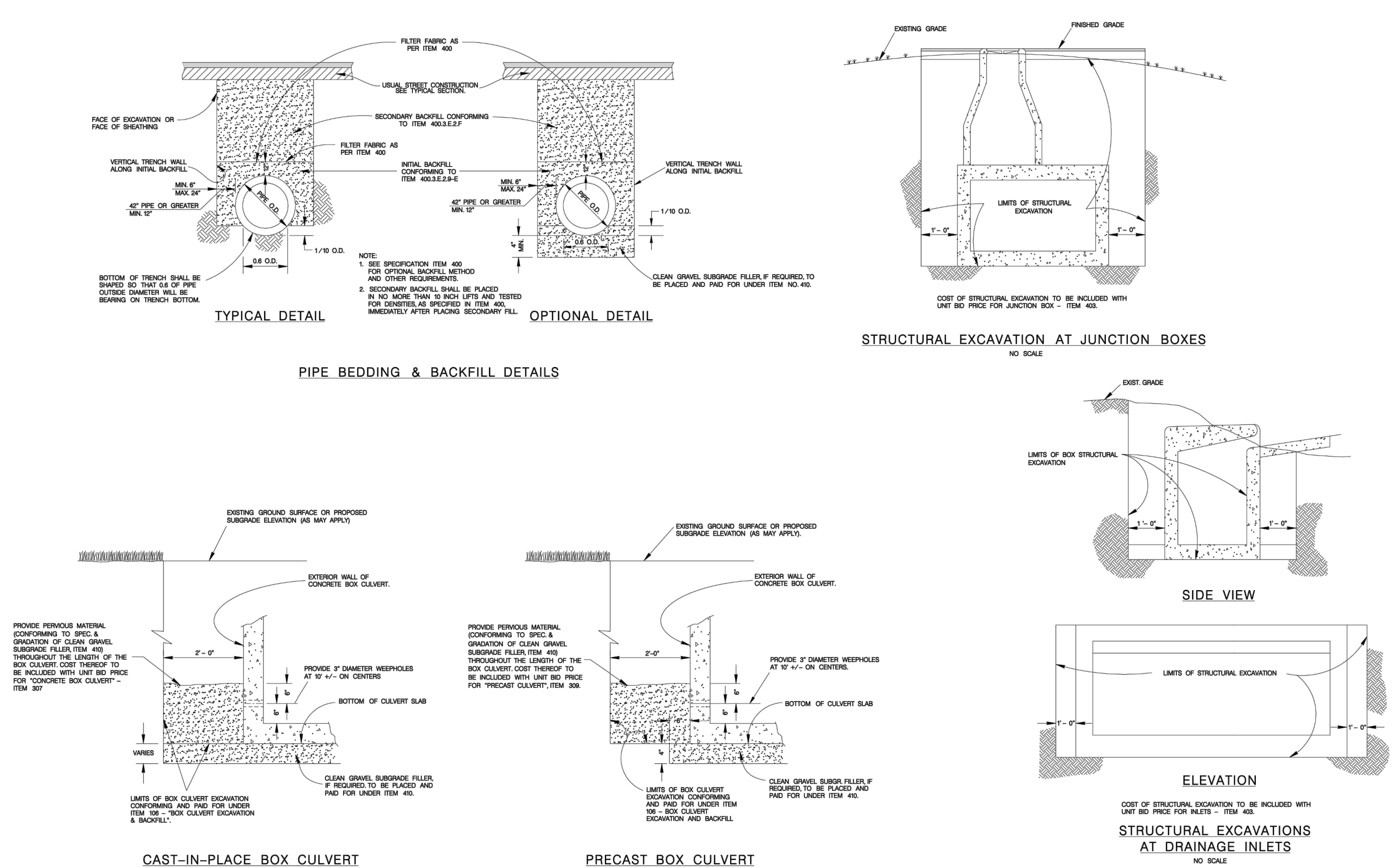
CONSTRUCTION NOTES:
Adjust reinforcing steel as necessary to provide 1 1/4" cover.
For vehicle safety, top of the curb must not project more than 3" above the finished grade.

MATERIAL NOTES:
Provide Grade 60 reinforcing steel.
Provide galvanized reinforcing steel if required elsewhere in the plans.
Provide Class "C" concrete ($f'_c = 3,600$ psi) minimum for curbs

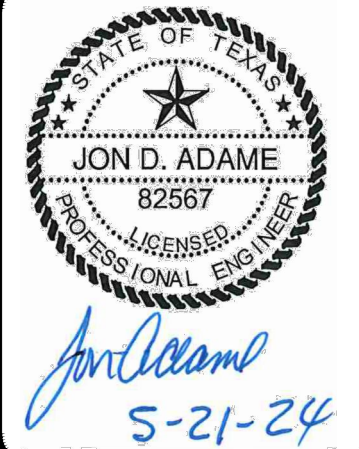
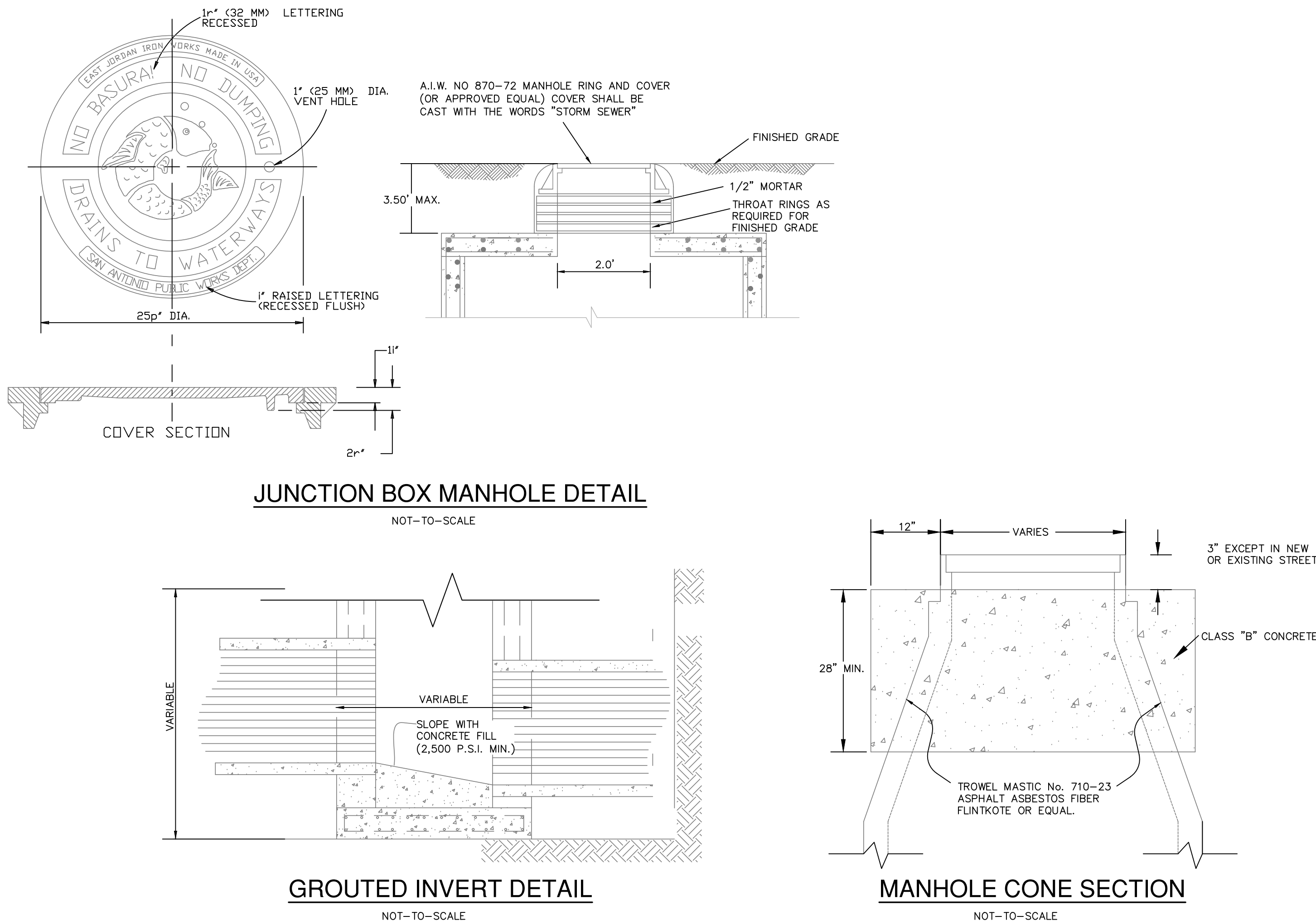
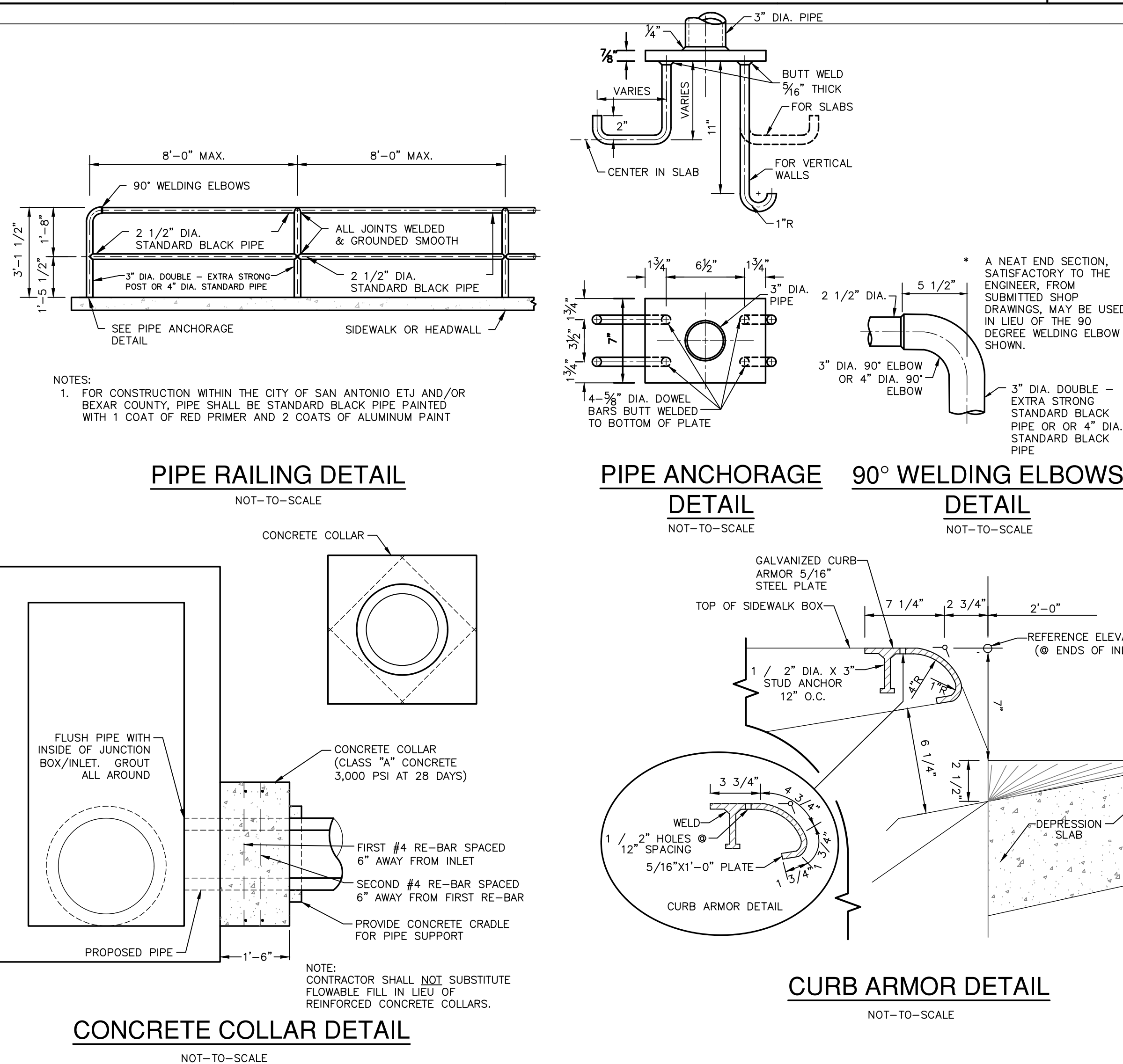
GENERAL NOTES:
Designed according to AASHTO LRFD Bridge Design Specifications.
These extended curb details have sufficient strength to allow for future retrofit of Type T631 or T631LS railing. These details are suitable for use with PR11, PR22 and PR3 type rails. These details are not suitable for the mounting of other rail types. For new construction using T631 or T631LS railing, use the T631-CN standard.
This Curb is considered a part of the Box Culvert for payment.

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

 <p style="font-size: 1.2em; margin: 0;">Texas Department of Transportation</p>	<p style="font-size: 0.8em; margin: 0;">Bridge Division Standard</p>																								
<h1 style="margin: 0;">EXTENDED CURB DETAILS</h1> <h2 style="margin: 0;">FOR BOX CULVERTS WITH</h2> <h3 style="margin: 0;">CURBS OVER 1'-0" TO 5'-0" TALL</h3>																									
<h1 style="margin: 0;">ECD</h1>																									
FILE: CD-ECD-20.dgn																									
CD-ADT February 2020 REVISED	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">DL</th> <th style="width: 15%;">GAF</th> <th style="width: 15%;">CL</th> <th style="width: 15%;">TxDOT</th> <th style="width: 15%;">JOB</th> <th style="width: 15%;">TxDOT</th> <th style="width: 15%;">CL</th> <th style="width: 15%;">GAF</th> </tr> </thead> <tbody> <tr> <td>CONF</td> <td>DECT</td> <td></td> <td></td> <td>JOB</td> <td></td> <td></td> <td>REVISION</td> </tr> <tr> <td colspan="4">DIST</td> <td colspan="2">COUNTY</td> <td colspan="2">SHEET NO.</td> </tr> </tbody> </table>	DL	GAF	CL	TxDOT	JOB	TxDOT	CL	GAF	CONF	DECT			JOB			REVISION	DIST				COUNTY		SHEET NO.	
DL	GAF	CL	TxDOT	JOB	TxDOT	CL	GAF																		
CONF	DECT			JOB			REVISION																		
DIST				COUNTY		SHEET NO.																			



MAY 2009			
CITY OF SAN ANTONIO			
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT			
PIPE BEDDING & MISCELLANEOUS DRAINAGE DETAILS			
PROJECT NO.:		DATE:	
DESIGN BY:	CHECK BY:	SHEET NO. OF	

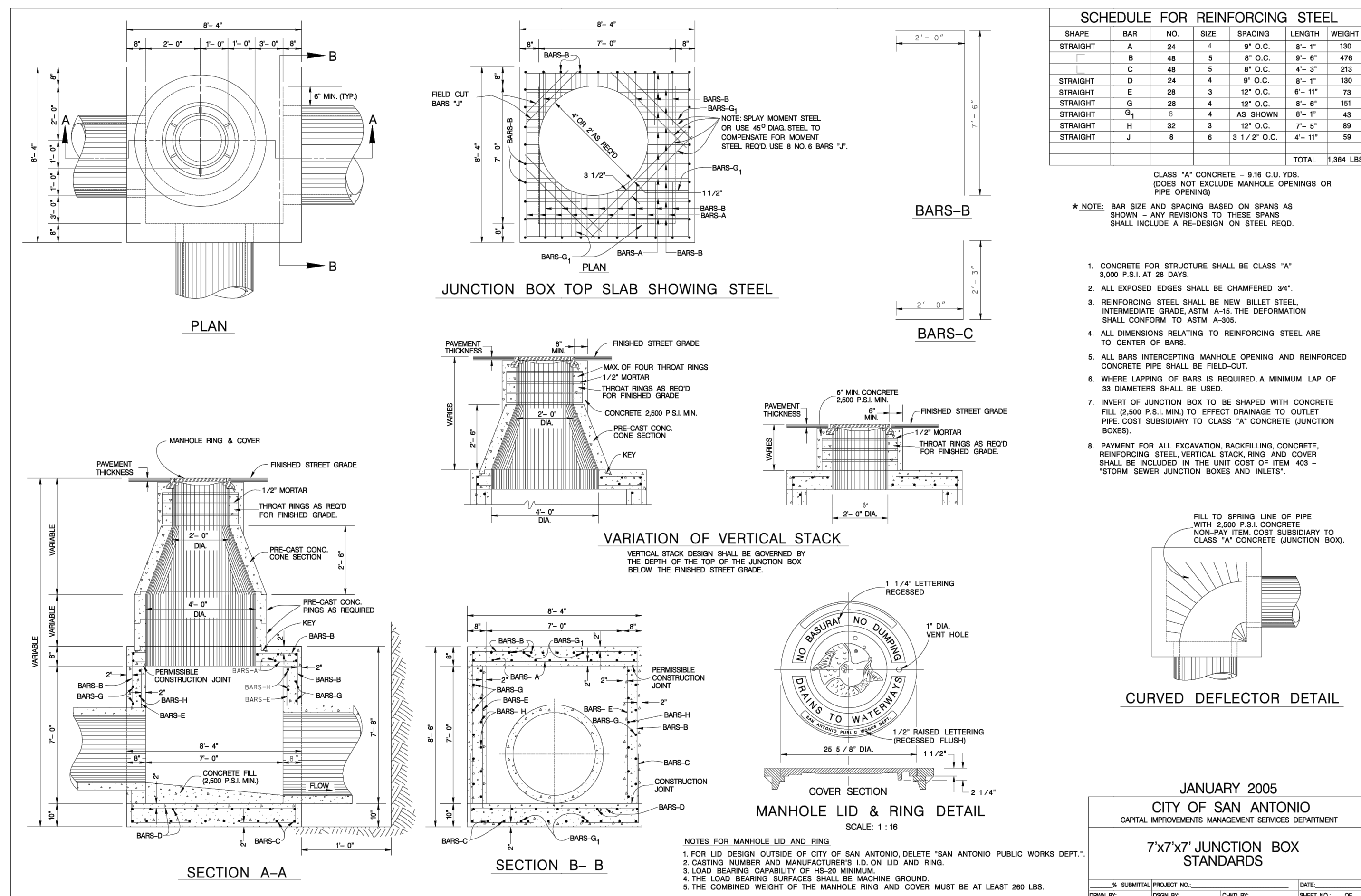


**PAPE-DAWSON
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000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #100238800

SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS
DRAIN DETAILS

DRAIN DETAILS



- 1) $Slew = 0^\circ$
- 2) At discharge end, chaffer may be 3° minimum.
- 3) For 1st slew – 1°
- 4) For 3rd slew – 2°
- 5) For 4th slew – 3°
- 6) Quantities shown are for Two Type PW-1 wings. Add concrete volume for additional wings. To determine estimated quantities for two wings, multiply the tabulated values by 1/2. Quantities shown do not include waste.
- 7) Provide weepholes for Hs = $5\text{--}9\text{'}-0\text{'}$ and greater. Fill around weepholes with concrete.
- 8) Extend Bars E2 $1\text{--}6\text{'}$ minimum into the wingwall footing.
- 9) Lap Bars B1 $1\text{--}6\text{'}$ minimum with Bars H2.
- 10) Place Bars G as shown, equally spaced at 8' maximum. Provide at least two pairs of Bars G per wing.
- 11) 0° Min to 5' Max. Estimated curb heights are shown elsewhere in the specifications. For curb heights greater than 7' - 0' , refer to the Extended Curb Details (ECD) standard sheet. For structures with 5' or less curb height, refer to Mounting Details for T631, T632, T633, T634, T635, T636, T637, T638, T639, T640, T641, T642, T643, T644, T645, T646, T647, T648, T649, T650, T651, T652, T653, T654, T655, T656, T657, T658, T659, T660, T661, T662, T663, T664, T665, T666, T667, T668, T669, T670, T671, T672, T673, T674, T675, T676, T677, T678, T679, T680, T681, T682, T683, T684, T685, T686, T687, T688, T689, T690, T691, T692, T693, T694, T695, T696, T697, T698, T699, T700, T701, T702, T703, T704, T705, T706, T707, T708, T709, T710, T711, T712, T713, T714, T715, T716, T717, T718, T719, T720, T721, T722, T723, T724, T725, T726, T727, T728, T729, T730, T731, T732, T733, T734, T735, T736, T737, T738, T739, T740, T741, T742, T743, T744, T745, T746, T747, T748, T749, T750, T751, T752, T753, T754, T755, T756, T757, T758, T759, T760, T761, T762, T763, T764, T765, T766, T767, T768, T769, T770, T771, T772, T773, T774, T775, T776, T777, T778, T779, T780, T781, T782, T783, T784, T785, T786, T787, T788, T789, T790, T791, T792, T793, T794, T795, T796, T797, T798, T799, T800, T801, T802, T803, T804, T805, T806, T807, T808, T809, T810, T811, T812, T813, T814, T815, T816, T817, T818, T819, T820, T821, T822, T823, T824, T825, T826, T827, T828, T829, T830, T831, T832, T833, T834, T835, T836, T837, T838, T839, T840, T841, T842, T843, T844, T845, T846, T847, T848, T849, T850, T851, T852, T853, T854, T855, T856, T857, T858, T859, T860, T861, T862, T863, T864, T865, T866, T867, T868, T869, T870, T871, T872, T873, T874, T875, T876, T877, T878, T879, T880, T881, T882, T883, T884, T885, T886, T887, T888, T889, T890, T891, T892, T893, T894, T895, T896, T897, T898, T899, T900, T901, T902, T903, T904, T905, T906, T907, T908, T909, T910, T911, T912, T913, T914, T915, T916, T917, T918, T919, T920, T921, T922, T923, T924, T925, T926, T927, T928, T929, T930, T931, T932, T933, T934, T935, T936, T937, T938, T939, T940, T941, T942, T943, T944, T945, T946, T947, T948, T949, T950, T951, T952, T953, T954, T955, T956, T957, T958, T959, T960, T961, T962, T963, T964, T965, T966, T967, T968, T969, T970, T971, T972, T973, T974, T975, T976, T977, T978, T979, T980, T981, T982, T983, T984, T985, T986, T987, T988, T989, T990, T991, T992, T993, T994, T995, T996, T997, T998, T999, T1000, T1001, T1002, T1003, T1004, T1005, T1006, T1007, T1008, T1009, T1010, T1011, T1012, T1013, T1014, T1015, T1016, T1017, T1018, T1019, T1020, T1021, T1022, T1023, T1024, T1025, T1026, T1027, T1028, T1029, T1030, T1031, T1032, T1033, T1034, T1035, T1036, T1037, T1038, T1039, T1040, T1041, T1042, T1043, T1044, T1045, T1046, T1047, T1048, T1049, T1050, T1051, T1052, T1053, T1054, T1055, T1056, T1057, T1058, T1059, T1060, T1061, T1062, T1063, T1064, T1065, T1066, T1067, T1068, T1069, T1070, T1071, T1072, T1073, T1074, T1075, T1076, T1077, T1078, T1079, T1080, T1081, T1082, T1083, T1084, T1085, T1086, T1087, T1088, T1089, T1090, T1091, T1092, T1093, T1094, T1095, T1096, T1097, T1098, T1099, T1100, T1101, T1102, T1103, T1104, T1105, T1106, T1107, T1108, T1109, T1110, T1111, T1112, T1113, T1114, T1115, T1116, T1117, T1118, T1119, T1120, T1121, T1122, T1123, T1124, T1125, T1126, T1127, T1128, T1129, T1130, T1131, T1132, T1133, T1134, T1135, T1136, T1137, T1138, T1139, T1140, T1141, T1142, T1143, T1144, T1145, T1146, T1147, T1148, T1149, T1150, T1151, T1152, T1153, T1154, T1155, T1156, T1157, T1158, T1159, T1160, T1161, T1162, T1163, T1164, T1165, T1166, T1167, T1168, T1169, T1170, T1171, T1172, T1173, T1174, T1175, T1176, T1177, T1178, T1179, T1180, T1181, T1182, T1183, T1184, T1185, T1186, T1187, T1188, T1189, T1190, T1191, T1192, T1193, T1194, T1195, T1196, T1197, T1198, T1199, T1200, T1201, T1202, T1203, T1204, T1205, T1206, T1207, T1208, T1209, T1210, T1211, T1212, T1213, T1214, T1215, T1216, T1217, T1218, T1219, T1220, T1221, T1222, T1223, T1224, T1225, T1226, T1227, T1228, T1229, T1230, T1231, T1232, T1233, T1234, T1235, T1236, T1237, T1238, T1239, T1240, T1241, T1242, T1243, T1244, T1245, T1246, T1247, T1248, T1249, T1250, T1251, T1252, T1253, T1254, T1255, T1256, T1257, T1258, T1259, T1260, T1261, T1262, T1263, T1264, T1265, T1266, T1267, T1268, T1269, T1270, T1271, T1272, T1273, T1274, T1275, T1276, T1277, T1278, T1279, T1280, T1281, T1282, T1283, T1284, T1285, T1286, T1287, T1288, T1289, T1290, T1291, T1292, T1293, T1294, T1295, T1296, T1297, T1298, T1299, T1300, T1301, T1302, T13

CORNER OPTION "A"

CORNER OPTION "B"

CORNER OPTION "A"

CORNER OPTION "B"

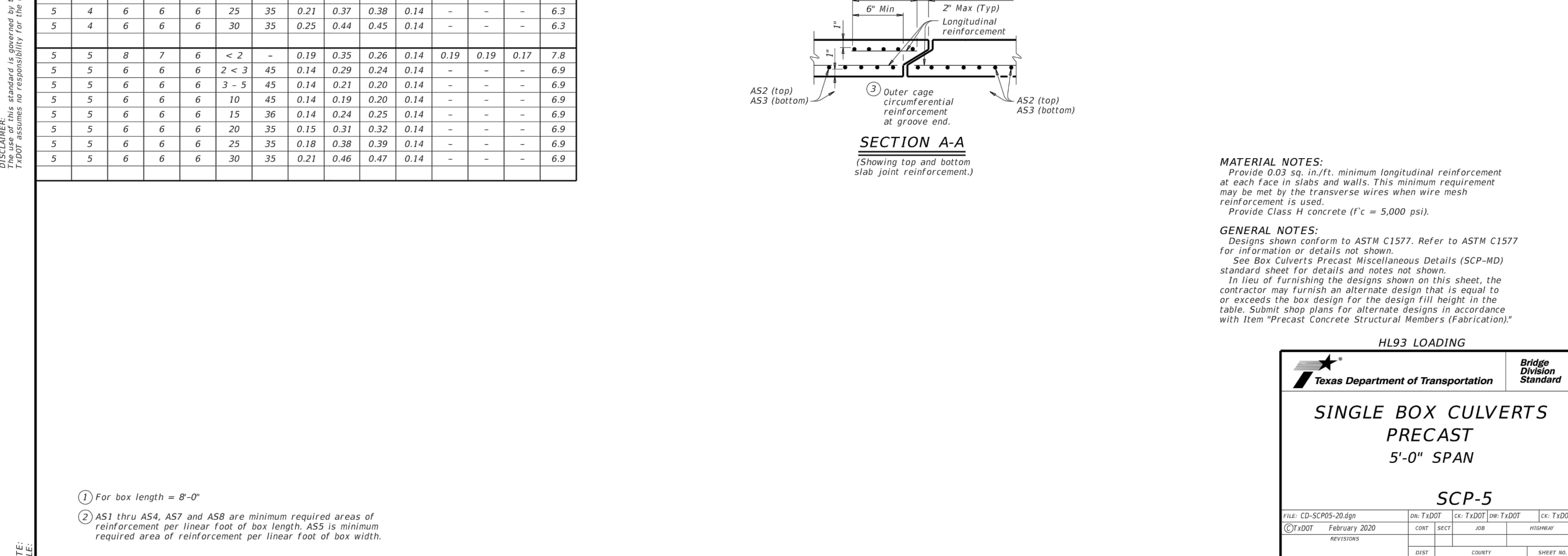
FILL HEIGHT 2 FT AND GREATER

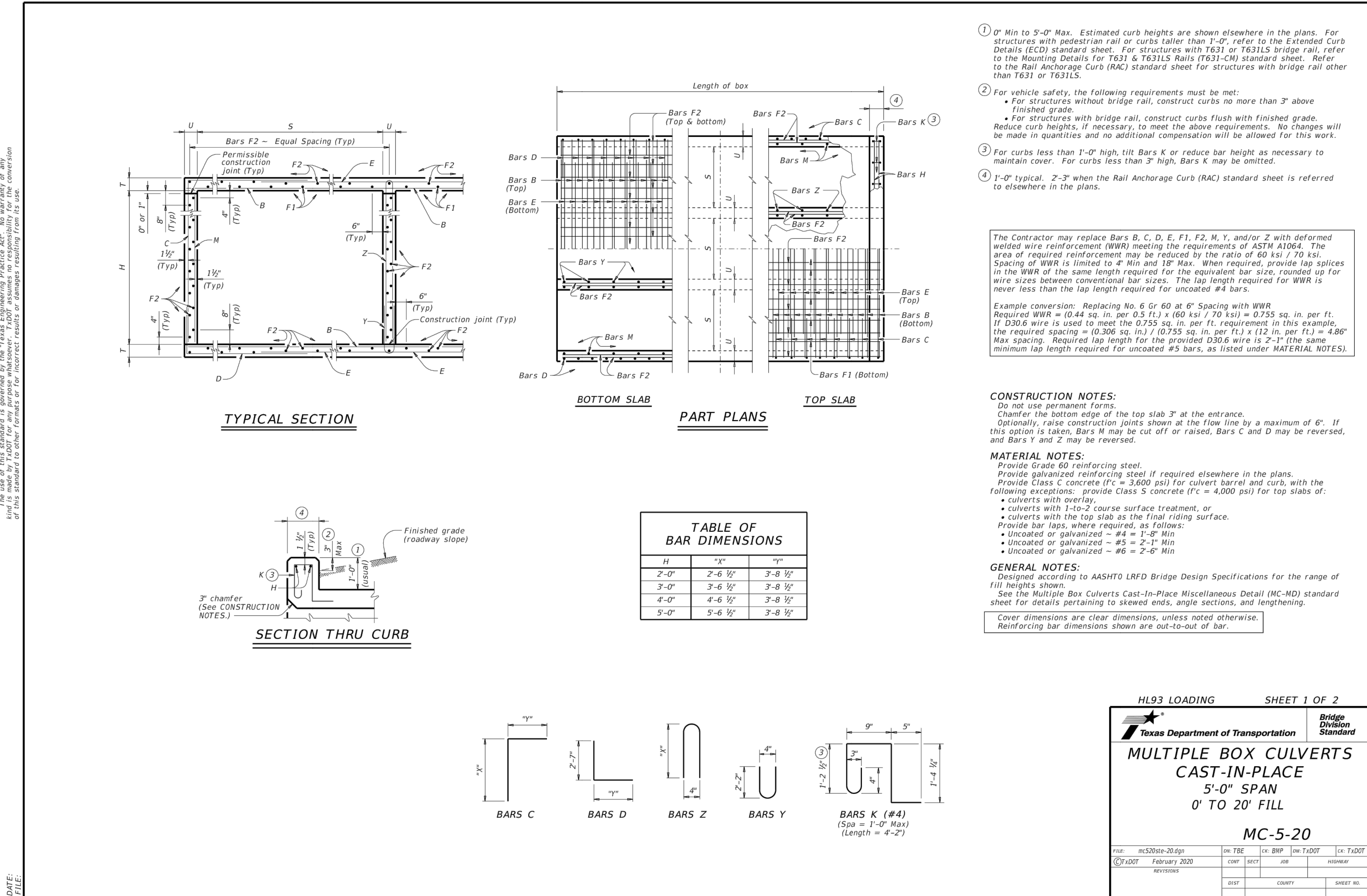
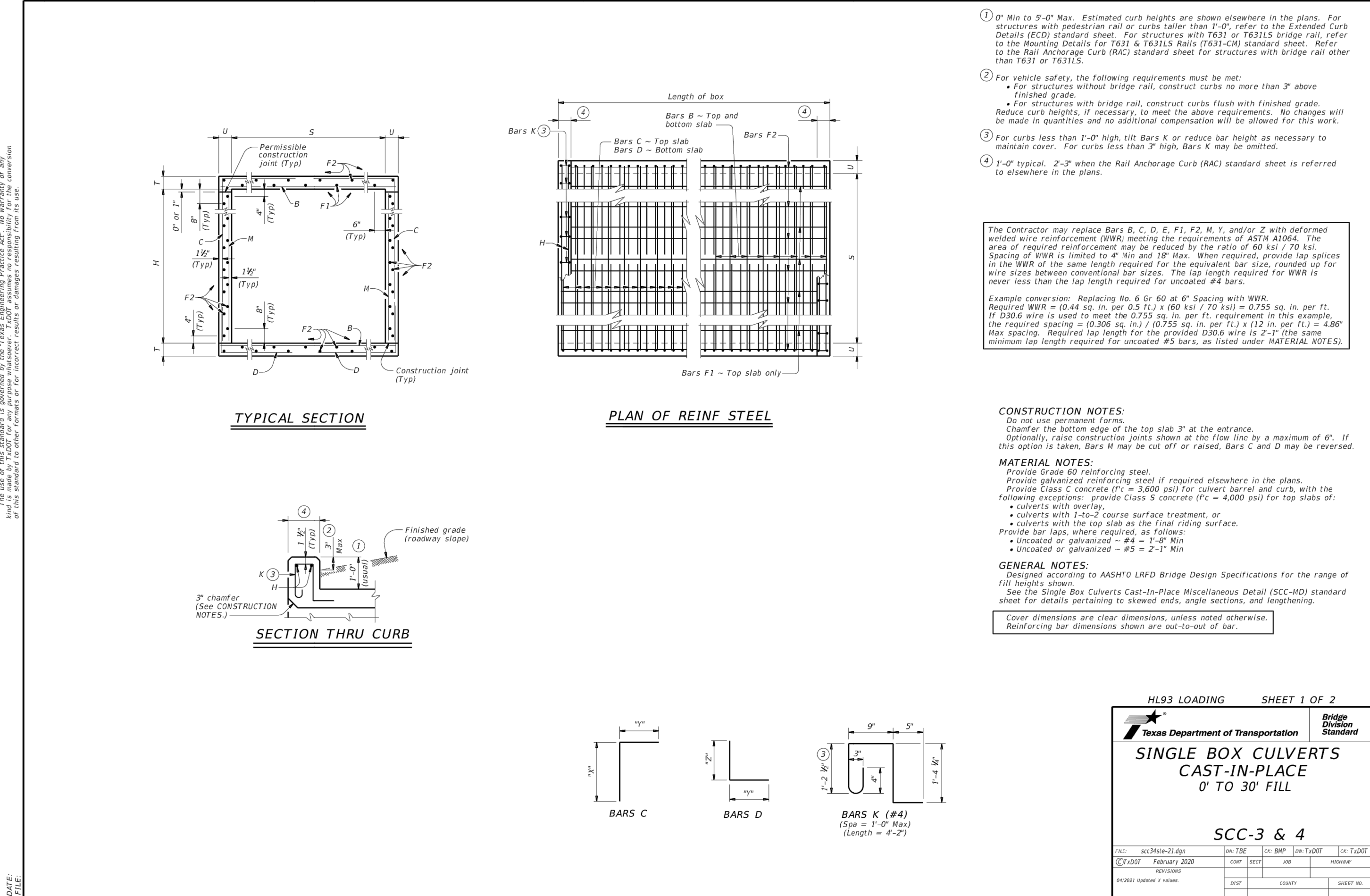
FILL HEIGHT LESS THAN 2 FT

② Length is equal to spacing of longitudinal reinforcing plus 2" (10" Min) (Typ)

SECTION A-A
(Showing top and bottom clockwise reinforcement)

MATERIAL NOTES:
① Reinforcing steel shall be minimum longitudinal reinforcing





SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS
DRAIN DETAILS

SECTION THRU CURB

TABLE OF BAR DIMENSIONS

H	W	Y
2'-0"	2'-6 1/2"	3'-8 1/2"
3'-0"	3'-6 1/2"	3'-8 1/2"
4'-0"	4'-6 1/2"	3'-8 1/2"
5'-0"	5'-6 1/2"	3'-8 1/2"

CONSTRUCTION NOTES:

Do not use permanent forms.
Chamfer the bottom edge of the top slab 3" at the entrance.
Optionally, raise construction joints shown at the flow line by a maximum of 6". If this option is taken, Bars M may be cut off or raised. Bars C and D may be reversed, and Bars Y and Z may be reversed.

MATERIAL NOTES:

Provide Grade 60 reinforcing steel.
Provide galvanized reinforcing steel if required elsewhere in the plans.
Provide Class C concrete (f'c = 3,600 psi) for culvert barrel and curb, with the following exceptions: provide Class S concrete (f'c = 4,000 psi) for top slabs of:
• culverts with overlay;
• culverts with the top slab as the final riding surface.
Provide bar laps, where required, as follows:
• Uncoated or galvanized - #4 = 1'-0" Min
• Uncoated or galvanized - #5 = 2'-0" Min
• Uncoated or galvanized - #6 = 2'-0" Min

GENERAL NOTES:

Designed according to AASHTO LRFD Bridge Design Specifications for the range of fill heights shown.
See the Single Box Culverts Cast-In-Place Miscellaneous Detail (SCC-MD) standard sheet for details pertaining to skewed ends, angle sections, and lengthening.
Cover dimensions are clear dimensions, unless noted otherwise.
Reinforcing bar dimensions shown are out-to-out of bar.

SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS
DRAIN DETAILS

SECTION THRU CURB

TABLE OF BAR DIMENSIONS

H	W	Y
2'-0"	2'-6 1/2"	3'-8 1/2"
3'-0"	3'-6 1/2"	3'-8 1/2"
4'-0"	4'-6 1/2"	3'-8 1/2"
5'-0"	5'-6 1/2"	3'-8 1/2"

CONSTRUCTION NOTES:

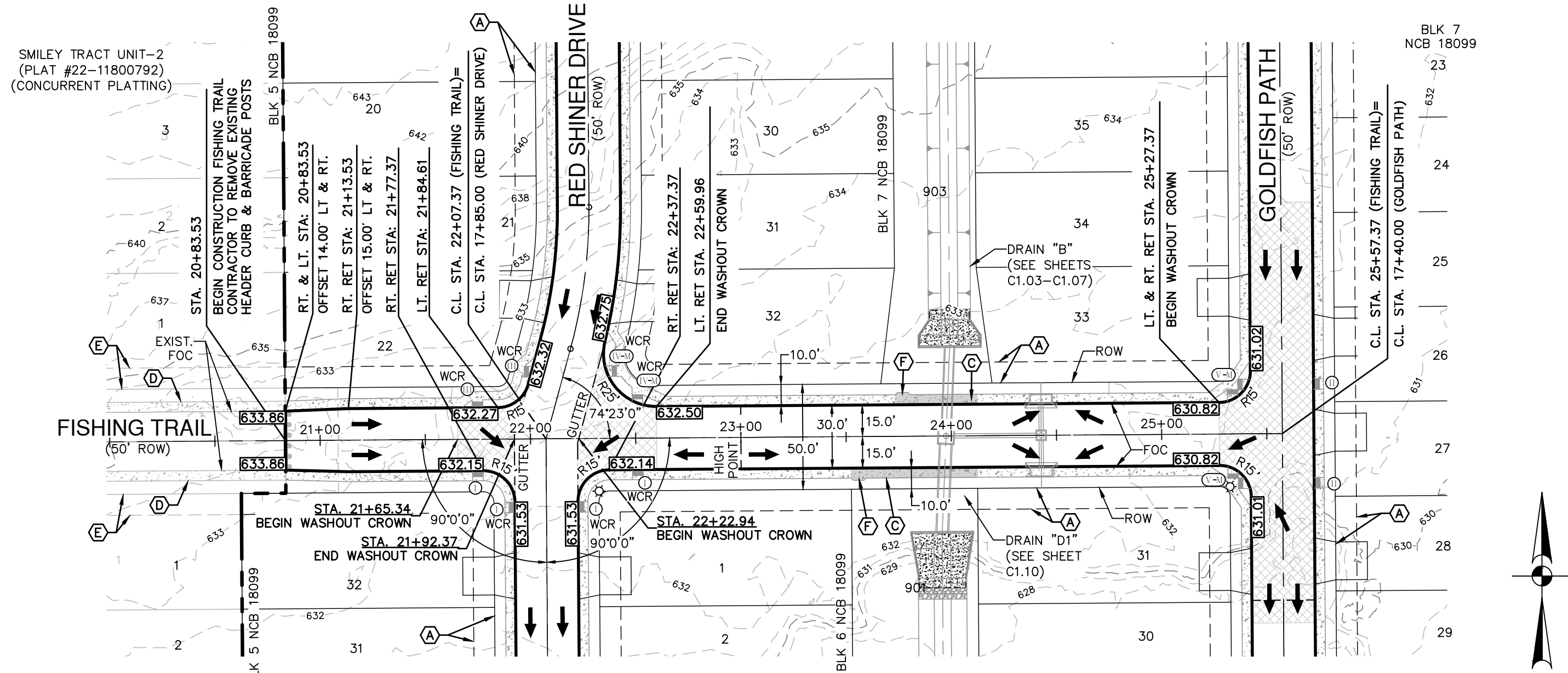
Do not use permanent forms.
Chamfer the bottom edge of the top slab 3" at the entrance.
Optionally, raise construction joints shown at the flow line by a maximum of 6". If this option is taken, Bars M may be cut off or raised. Bars C and D may be reversed, and Bars Y and Z may be reversed.

MATERIAL NOTES:

Provide Grade 60 reinforcing steel.
Provide galvanized reinforcing steel if required elsewhere in the plans.
Provide Class C concrete (f'c = 3,600 psi) for culvert barrel and curb, with the following exceptions: provide Class S concrete (f'c = 4,000 psi) for top slabs of:
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Provide bar laps, where required, as follows:
• Uncoated or galvanized - #4 = 1'-0" Min
• Uncoated or galvanized - #5 = 2'-0" Min
• Uncoated or galvanized - #6 = 2'-0" Min

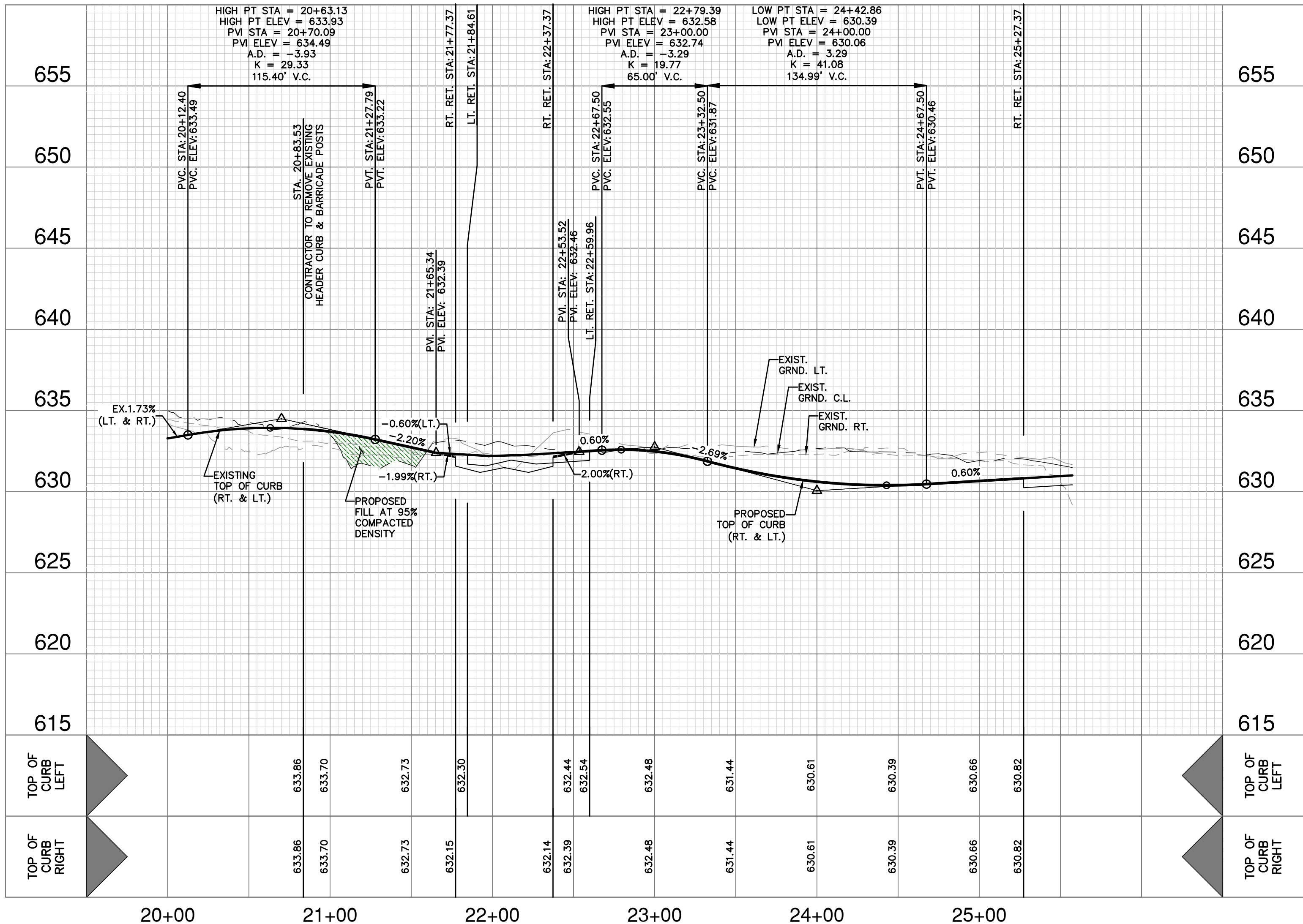
GENERAL NOTES:

Designed according to AASHTO LRFD Bridge Design Specifications for the range of fill heights shown.
See the Multiple Box Culverts Cast-In-Place Miscellaneous Detail (MC-MD) standard sheet for details pertaining to skewed ends, angle sections, and lengthening.
Cover dimensions are clear dimensions, unless noted otherwise.
Reinforcing bar dimensions shown are out-to-out of bar.



FISHING TRAIL ~ STA. 20+83.53 TO END

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

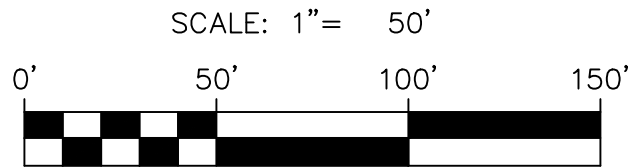


KEY LEGEND:

- (A) 10' ELEC., GAS, TELE, & CA. T.V. EASEMENT
- (B) 4' SIDEWALK
- (C) 4' DEVELOPER SIDEWALK
- (D) EXISTING 4' DEVELOPER SIDEWALK
- (E) EXISTING 10' ELEC., GAS, TELE, & CA. T.V. EASEMENT (PLAT #22-11800792 CONCURRENT PLATTING)
- (F) 5' ADA PASSING SPACE

STREET LEGEND

- PROJECT LIMITS
- MAINTAIN GUTTER
- EXISTING CONTOUR
- WHEELCHAIR RAMP
- CENTERLINE
- RADIUS POINT
- POINT OF CURVATURE
- POINT OF TANGENCY
- RETURN
- DRAINAGE FLOW ARROW
- TOP OF CURB SPOT ELEVATION
- PAVEMENT ELEVATION
- WASHOUT CROWN SECTION
- SIDEWALK (SEE SHEET C3.00-C3.03 FOR DEVELOPER/HOMEBUILDER RESPONSIBILITY)
- DRIVEWAY



PAPE-DAWSON
ENGINEERS

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TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS

FISHING TRAIL ~ STA. 20+83.53 TO END
STREET PLAN & PROFILE

SIDEWALK NOTE:

THE CONSTRUCTION OF SIDEWALKS ADJACENT TO ALL 900 SERIES LOTS WILL BE THE RESPONSIBILITY OF THE DEVELOPER AS SHOWN ON THE OVERALL SIGNAGE PLAN (SHEET C3.00-C3.03). REFER TO SHEET C3.00-C3.03 FOR LOCATIONS OF SIDEWALK CONSTRUCTION WHERE SIDEWALKS ARE NOT SHOWN

STREET SELECT FILL NOTE:

FILL MATERIAL SHOULD BE NATIVE ON-SITE MATERIAL, FREE OF DELETERIOUS MATERIAL WITH A MINIMUM CBR VALUE OF 3.0 AND A PI MAXIMUM OF 20. THE GRAVEL SIZE SHOULD NOT EXCEED 3 INCHES IN DIAMETER. LIME APPLICATION RATE SHOULD BE RE-EVALUATED FOR THE FILL MATERIAL. THE MATERIAL SHOULD BE PLACED AS PER APPLICABLE CITY OR COUNTY GUIDELINES.

WHEEL CHAIR NOTE:

WHEEL CHAIR RAMPS (WCR) TO BE CENTERED ON STATION NOTED BELOW. ELEVATION SHOWN ARE TOP OF CURB AND NOT GUTTER

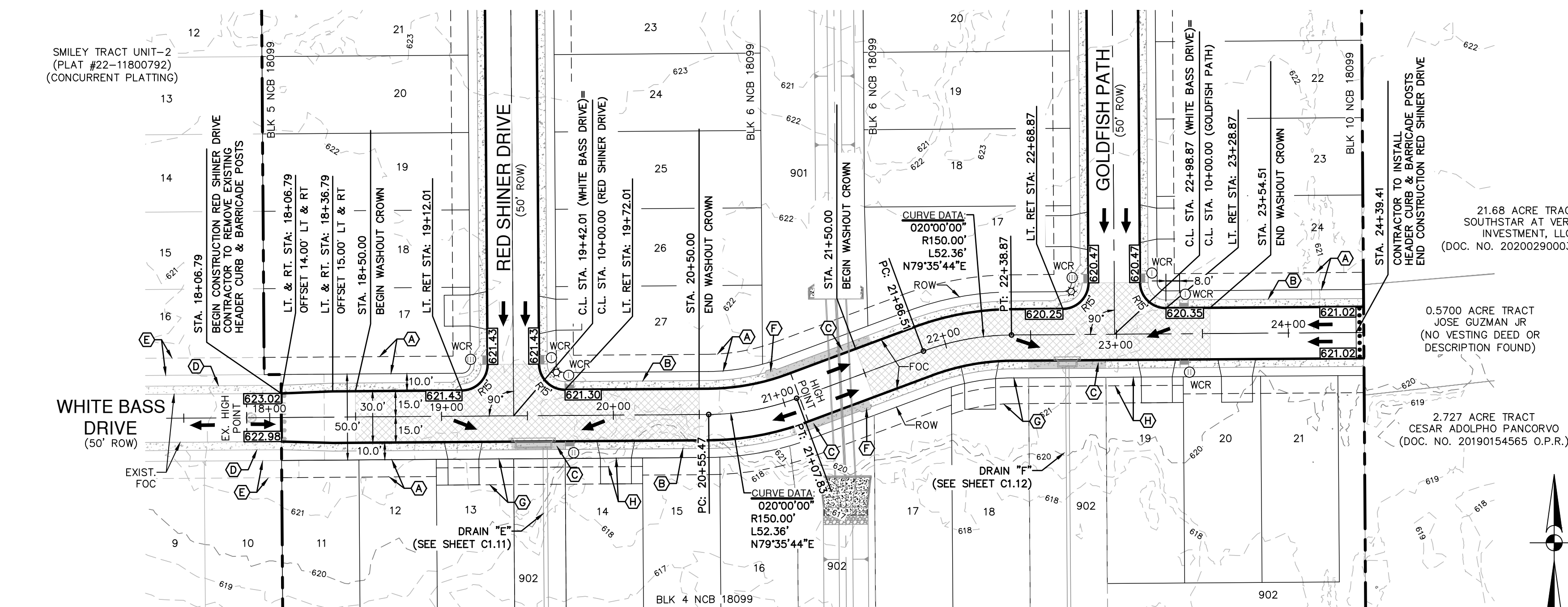
STREET NOTES:

- A BEXAR COUNTY PERMIT MUST BE OBTAINED BEFORE WORKING IN BEXAR COUNTY ROW. CONTRACTOR SHALL COORDINATE A TRAFFIC CONTROL PLAN FOR ALL WORK WITHIN THE ROW. ADDITIONAL WARNING SIGNS MAY BE RECOMMENDED BY THE ENGINEER ONCE THE ROADWAYS ARE CONSTRUCTED.
- CONTRACTOR SHALL MATCH EXISTING PAVEMENT AT TIE-IN. IF EXISTING PAVEMENT ELEVATION DIFFERS SIGNIFICANTLY, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONTINUING WORK.
- SIDEWALKS SHALL BE CONSTRUCTED 3'-FT FROM THE BACK OF CURB FOR ALL LOCATIONS WHERE THE SIDEWALK IS SHOWN OFFSET. REFER TO STREET DETAIL SHEET FOR SIDEWALK AND RAMP DETAILS.
- NO PERMANENT STRUCTURES HIGHER THAN 3 FEET, AND LOWER THAN 8 FEET ABOVE THE PAVEMENT, INCLUDING STRUCTURES, WALLS, FENCES, AND VEGETATION, SHALL BE CONSTRUCTED OR ALLOWED WITHIN THE CLEAR VISION EASEMENT. CONTRACTOR SHALL GRADE AREAS WITHIN CLEAR VISION EASEMENTS SUCH THAT THE ELEVATION WITHIN THE CLEAR VISION EASEMENT IS NOT HIGHER THAN 3 FEET ABOVE THE ADJACENT TOP OF PAVEMENT.
- DRIVEWAYS SHOWN ON THIS PLAN ARE FOR THE SOLE PURPOSE OF INDICATING A POTENTIAL CONFLICT WITH CURB RAMP, DRAINAGE INFRASTRUCTURE, OR OTHER CONFLICT. DRIVEWAY LOCATION IS SUBJECT TO CHANGE BASED ON HOME SELECTION AND FINAL LOT DESIGN.
- CHANGES IN THE SIDEWALK LOCATION FOR A MAXIMUM LINEAR DISTANCE OF TWO HUNDRED (200) FEET ARE PERMITTED TO BE APPROVED BY THE FIELD INSPECTOR WITHOUT AMENDING THE STREET PLAN OR UTILITY LAYOUT PER UDC SECTION 35-506 (Q)(6).

PLAT NO. **24-11800067**
JOB NO. **13316-03**
DATE **MAY 2024**
DESIGNER **CB**
CHECKED **AS** DRAWN **CB**
SHEET **C2.00**

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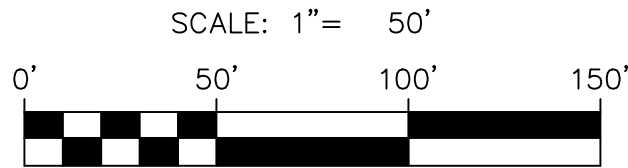
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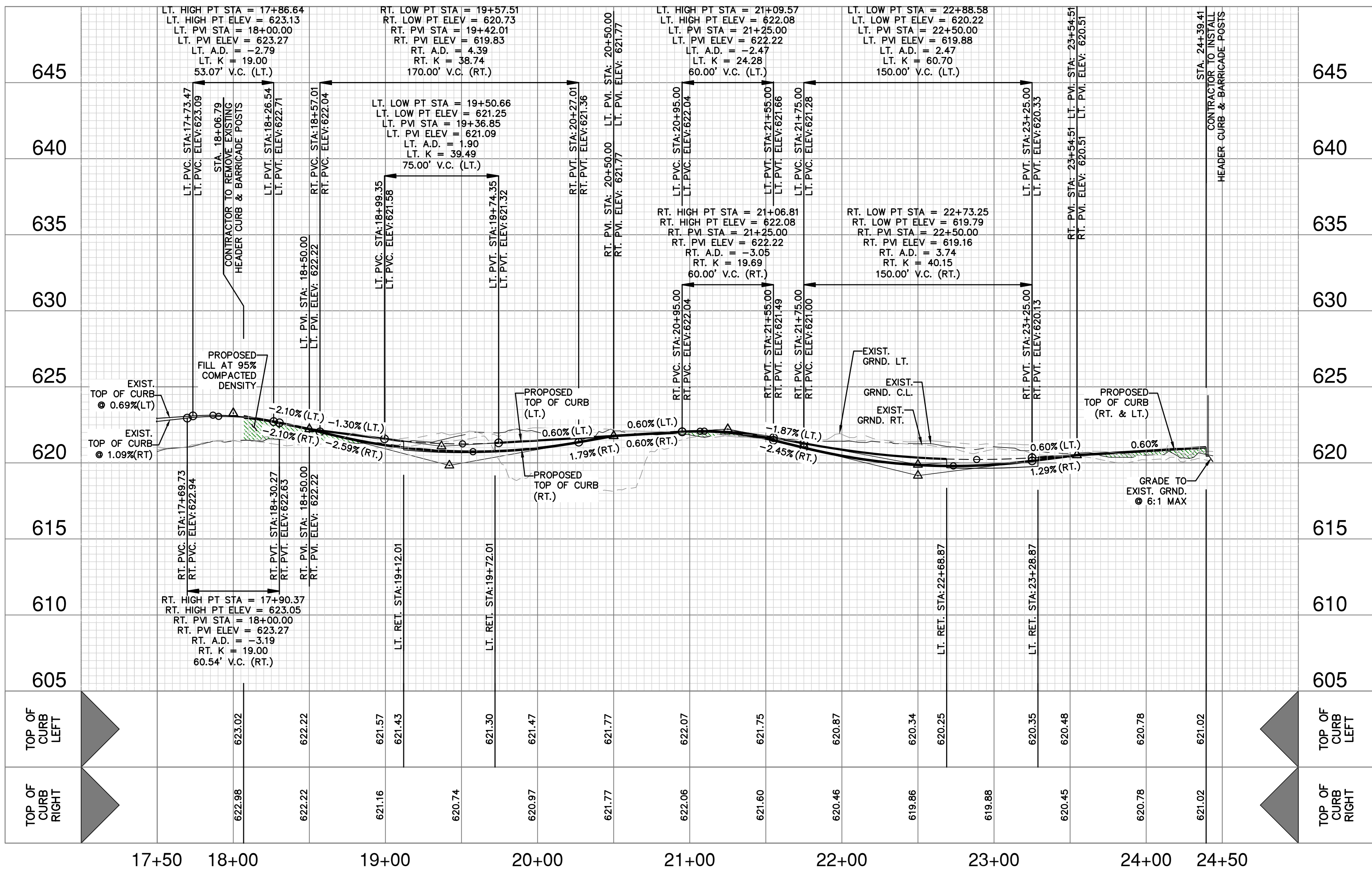
- KEY LEGEND:**
- (A) 10' ELEC., GAS, TELE, & CA. T.V. EASEMENT
 - (B) 4' SIDEWALK
 - (C) 4' DEVELOPER SIDEWALK
 - (D) EXISTING 4' DEVELOPER SIDEWALK
 - (E) EXISTING 10' ELEC., GAS, TELE, & CA. T.V. EASEMENT (PLAT #22-11800792 CONCURRENT PLATTING)
 - (F) 5' ADA PASSING SPACE
 - (G) 15' ELEC., GAS, TELE, & CA. T.V. EASEMENT
 - (H) 5' WATER EASEMENT

STREET LEGEND

- PROJECT LIMITS
MAINTAIN GUTTER
EXISTING CONTOUR
WHEELCHAIR RAMP
CENTERLINE
RADIUS POINT
POINT OF CURVATURE
POINT OF TANGENCY
RETURN
DRAINAGE FLOW ARROW
TOP OF CURB SPOT ELEVATION
PAVEMENT ELEVATION
WASHOUT CROWN SECTION
SIDEWALK (SEE SHEET C3.00-C3.03 FOR DEVELOPER/HOMEBUILDER RESPONSIBILITY)
DRIVEWAY



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



SIDEWALK NOTE:

THE CONSTRUCTION OF SIDEWALKS ADJACENT TO ALL 900 SERIES LOTS WILL BE THE RESPONSIBILITY OF THE DEVELOPER AS SHOWN ON THE OVERALL SIGNAGE PLAN (SHEET C3.00-C3.03). REFER TO SHEET C3.00-C3.03 FOR LOCATIONS OF SIDEWALK CONSTRUCTION WHERE SIDEWALKS ARE NOT SHOWN

STREET SELECT FILL NOTE:

FILL MATERIAL SHOULD BE NATIVE ON-SITE MATERIAL, FREE OF DELETERIOUS MATERIAL WITH A MINIMUM CBR VALUE OF 3.0 AND A PI MAXIMUM OF 20. THE GRAVEL SIZE SHOULD NOT EXCEED 3 INCHES IN DIAMETER. LIME APPLICATION RATE SHOULD BE RE-EVALUATED FOR THE FILL MATERIAL. THE MATERIAL SHOULD BE PLACED AS PER APPLICABLE CITY OR COUNTY GUIDELINES.

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PAPE-DAWSON
ENGINEERS

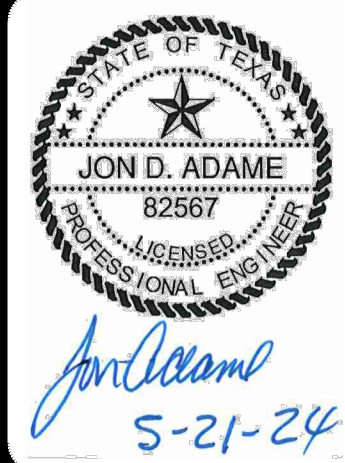
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TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008800

SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS

WHITE BASS DRIVE ~ STA. 18+06.79 TO END
STREET PLAN & PROFILE

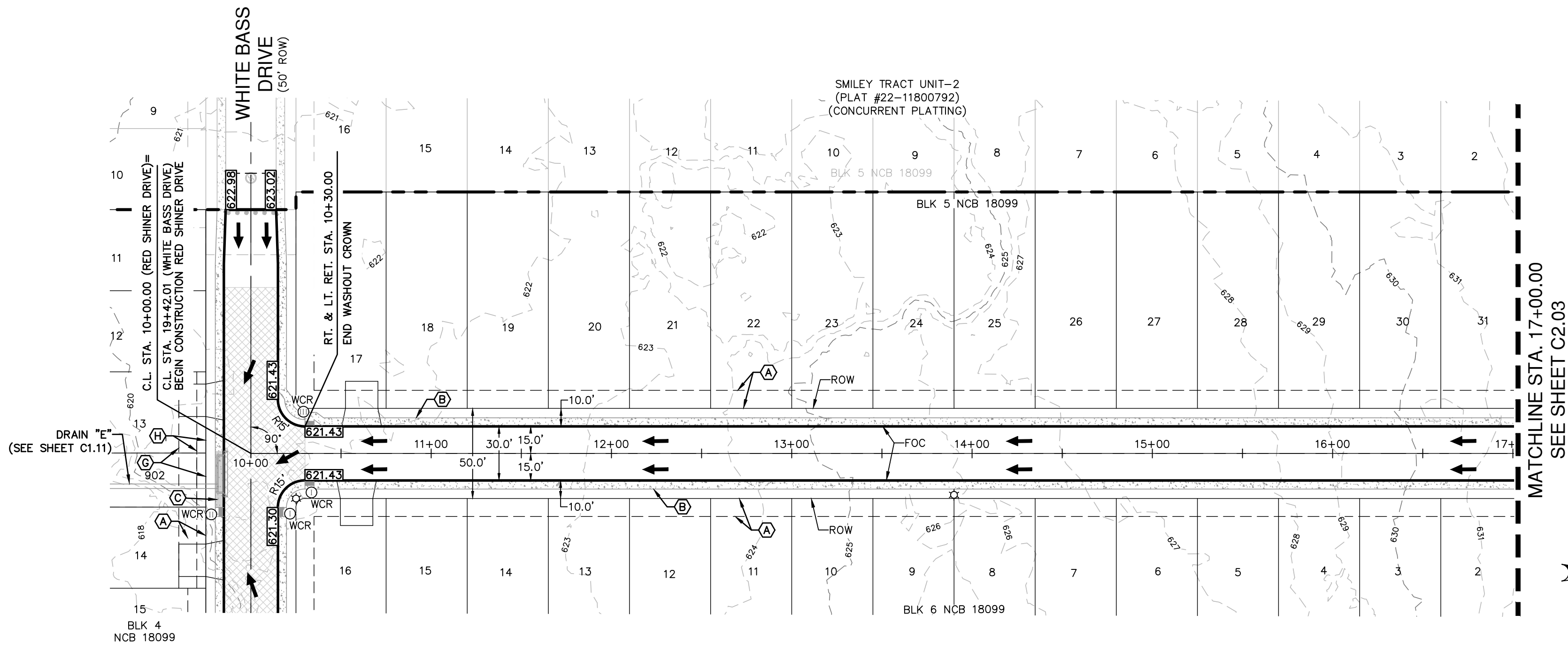
PLAT NO. 24-11800067
JOB NO. 13316-03
DATE MAY 2024
DESIGNER CB
CHECKED AS DRAWN CB
SHEET C2.01

NO.	REVISION	DATE



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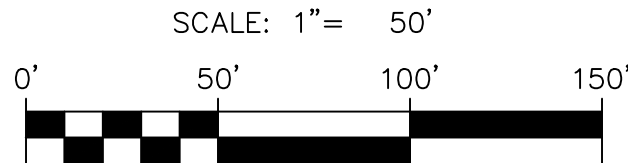


KEY LEGEND:

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- (B) 4' SIDEWALK
- (C) 4' DEVELOPER SIDEWALK
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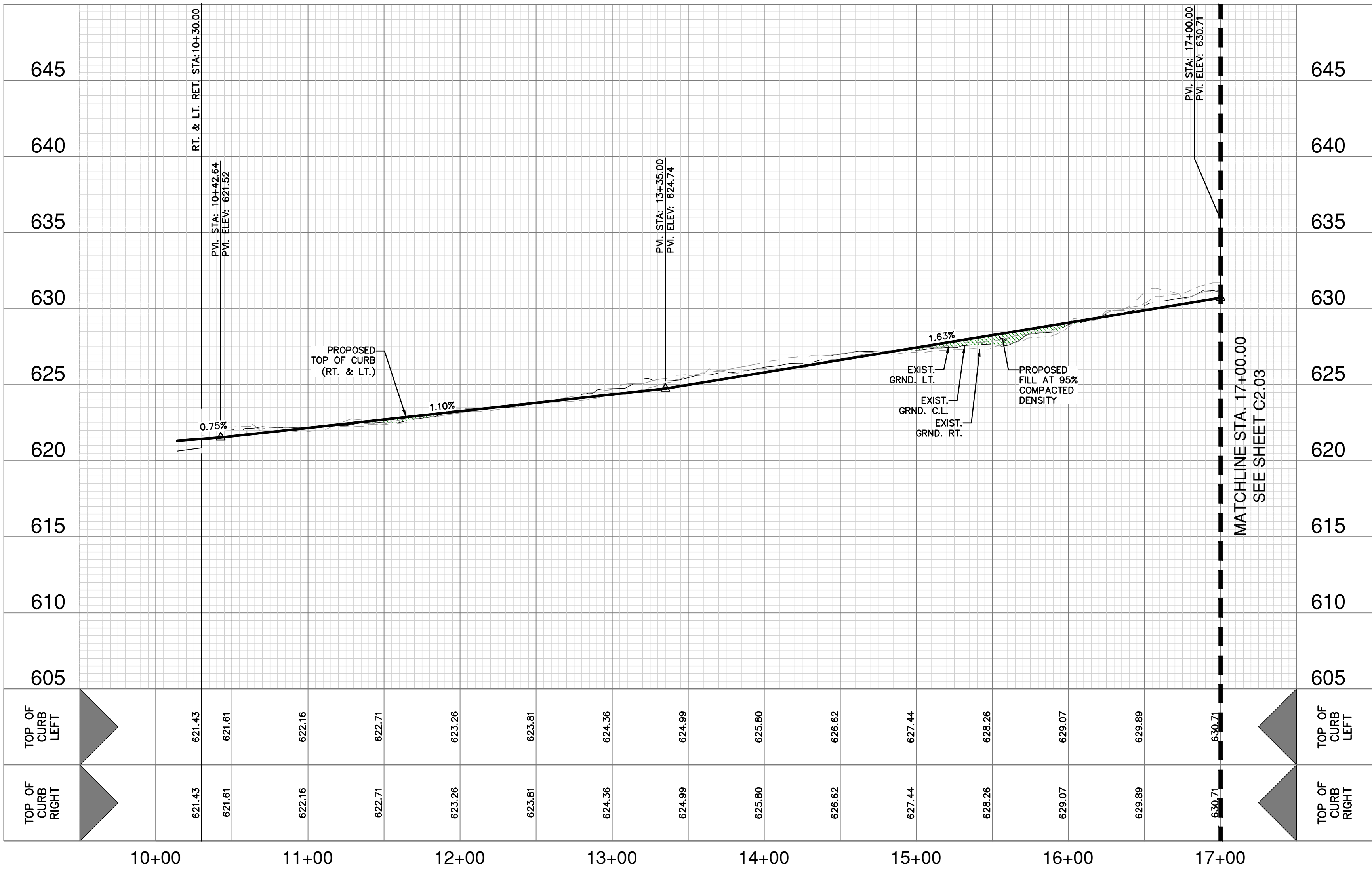
STREET LEGEND

- PROJECT LIMITS
- MAINTAIN GUTTER
- EXISTING CONTOUR
- WHEELCHAIR RAMP
- CENTERLINE
- RADIUS POINT
- POINT OF CURVATURE
- POINT OF TANGENCY
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- DRAINAGE FLOW ARROW
- TOP OF CURB SPOT ELEVATION
- PAVEMENT ELEVATION
- WASHOUT CROWN SECTION
- SIDEWALK (SEE SHEET C3.00-C3.03 FOR DEVELOPER/HOMEBUILDER RESPONSIBILITY)
- DRIVEWAY



RED SHINER DRIVE ~ STA. 10+00.00 TO STA. 17+00.00

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



SIDEWALK NOTE:

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STREET SELECT FILL NOTE:

FILL MATERIAL SHOULD BE NATIVE ON-SITE MATERIAL, FREE OF DELETERIOUS MATERIAL WITH A MINIMUM CBR VALUE OF 3.0 AND A PI MAXIMUM OF 20. THE GRAVEL SIZE SHOULD NOT EXCEED 3 INCHES IN DIAMETER. LIME APPLICATION RATE SHOULD BE RE-EVALUATED FOR THE FILL MATERIAL. THE MATERIAL SHOULD BE PLACED AS PER APPLICABLE CITY OR COUNTY GUIDELINES.

WHEEL CHAIR NOTE:

WHEEL CHAIR RAMPS (WCR) TO BE CENTERED ON STATION NOTED BELOW. ELEVATION SHOWN ARE TOP OF CURB AND NOT GUTTER

STREET NOTES:

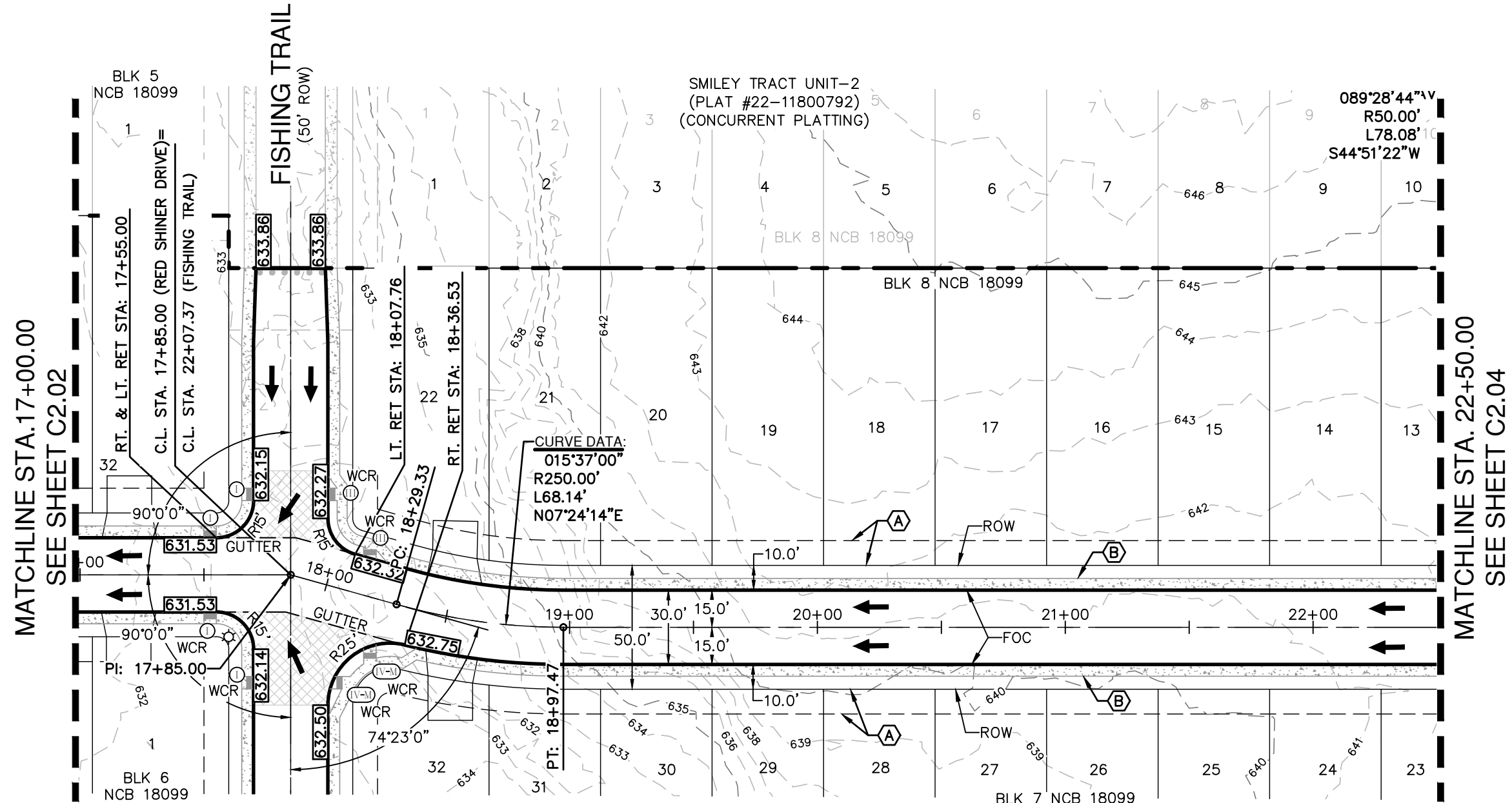
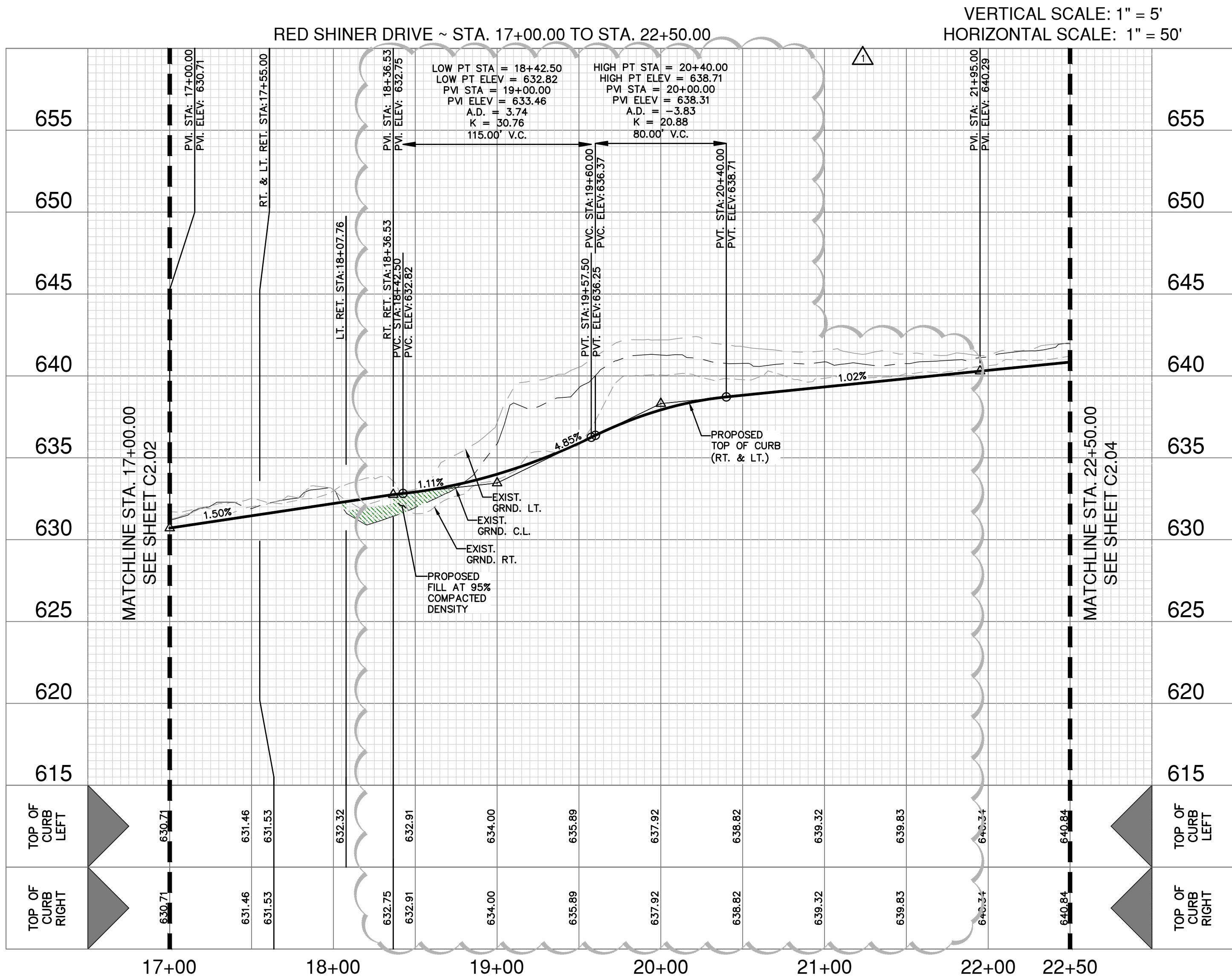
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- CONTRACTOR SHALL MATCH EXISTING PAVEMENT AT TIE-IN. IF EXISTING PAVEMENT ELEVATION DIFFERS SIGNIFICANTLY, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONTINUING WORK.
- SIDEWALKS SHALL BE CONSTRUCTED 3-FT FROM THE BACK OF CURB FOR ALL LOCATIONS WHERE THE SIDEWALK IS SHOWN OFFSET. REFER TO STREET DETAIL SHEET FOR SIDEWALK AND RAMP DETAILS.
- NO PERMANENT STRUCTURES HIGHER THAN 3 FEET, AND LOWER THAN 8 FEET ABOVE THE PAVEMENT, INCLUDING STRUCTURES, WALLS, FENCES, AND VEGETATION, SHALL BE CONSTRUCTED OR ALLOWED WITHIN THE CLEAR VISION EASEMENT. CONTRACTOR SHALL GRADE AREAS WITHIN CLEAR VISION EASEMENTS SUCH THAT THE ELEVATION WITHIN THE CLEAR VISION EASEMENT IS NOT HIGHER THAN 3 FEET ABOVE THE ADJACENT TOP OF PAVEMENT.
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PAPE-DAWSON
ENGINEERS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028600

SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS

RED SHINER DRIVE ~ STA. 10+00.00 TO STA. 17+00.00
STREET PLAN & PROFILE

PLAT NO. 24-11800067
JOB NO. 13316-03
DATE MAY 2024
DESIGNER CB
CHECKED AS DRAWN CB
SHEET C2.02

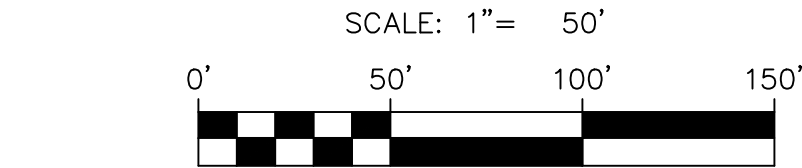


KEY LEGEND:

- (A) 10' ELEC., GAS, TELE, & CA. T.V. EASEMENT
- (B) 4' SIDEWALK
- (C) 4' DEVELOPER SIDEWALK
- (D) EXISTING 4' DEVELOPER SIDEWALK
- (E) EXISTING 10' ELEC., GAS, TELE, & CA. T.V. EASEMENT (PLAT #22-11800792 CONCURRENT PLATTING)
- (F) 5' ADA PASSING SPACE

STREET LEGEND

- PROJECT LIMITS
- MAINTAIN GUTTER
- EXISTING CONTOUR
- WHEELCHAIR RAMP
- CENTERLINE
- RADIUS POINT
- POINT OF CURVATURE
- POINT OF TANGENCY
- RETURN
- DRAINAGE FLOW ARROW
- TOP OF CURB SPOT ELEVATION
- PAVEMENT ELEVATION
- WASHOUT CROWN SECTION
- SIDEWALK (SEE SHEET C3.00-C3.03 FOR DEVELOPER/HOMEBUILDER RESPONSIBILITY)
- DRIVEWAY



SIDEWALK NOTE:

THE CONSTRUCTION OF SIDEWALKS ADJACENT TO ALL 900 SERIES LOTS WILL BE THE RESPONSIBILITY OF THE DEVELOPER AS SHOWN ON THE OVERALL SIGNAGE PLAN (SHEET C3.00-C3.03). REFER TO SHEET C3.00-C3.03 FOR LOCATIONS OF SIDEWALK CONSTRUCTION WHERE SIDEWALKS ARE NOT SHOWN.

STREET SELECT FILL NOTE:

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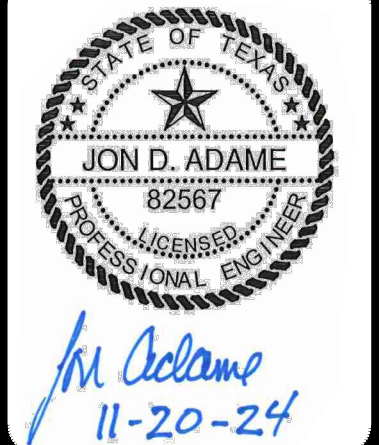
WHEEL CHAIR NOTE:

WHEEL CHAIR RAMPS (WCR) TO BE CENTERED ON STATION NOTED BELOW. ELEVATION SHOWN ARE TOP OF CURB AND NOT GUTTER.

STREET NOTES:

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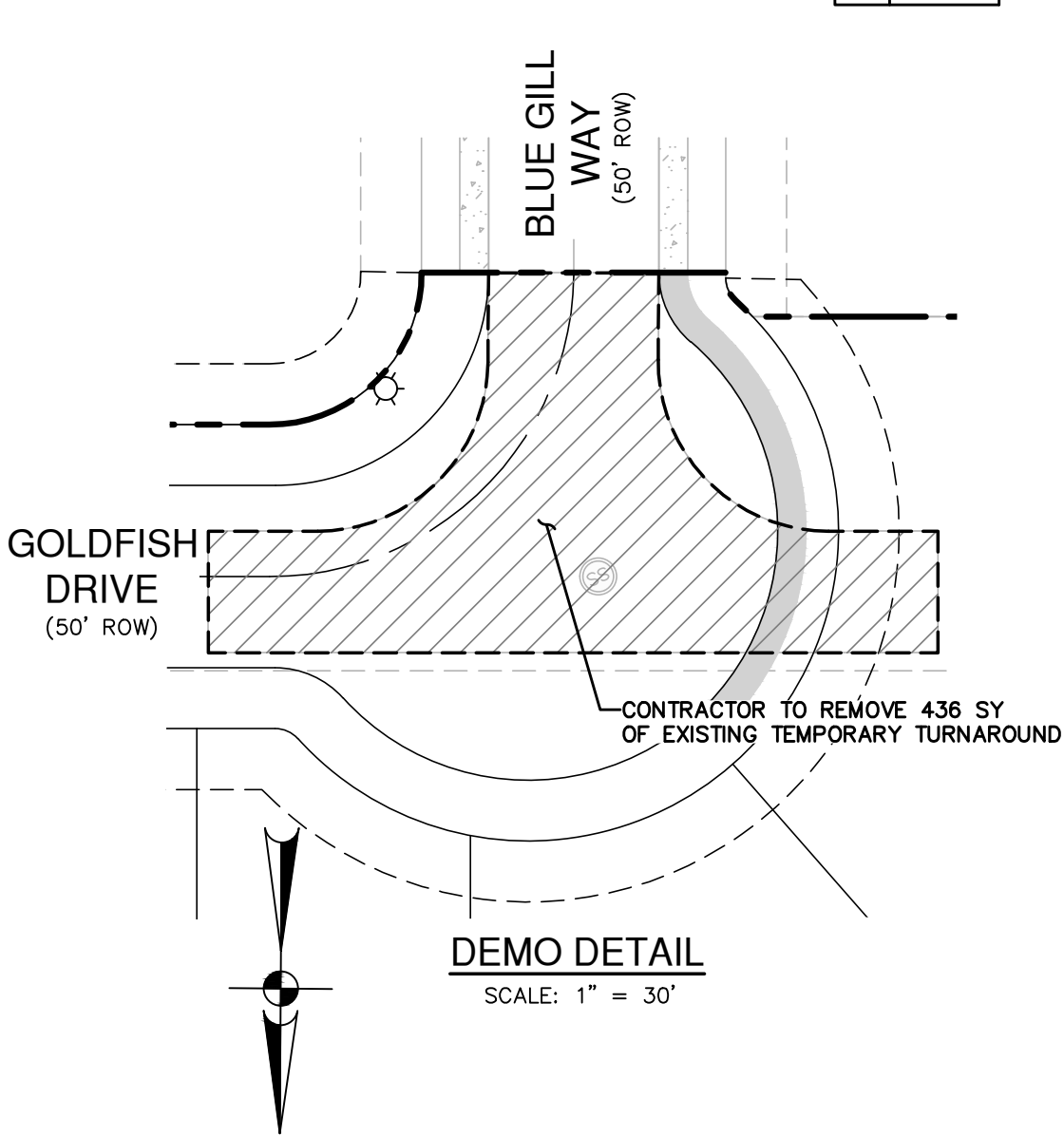
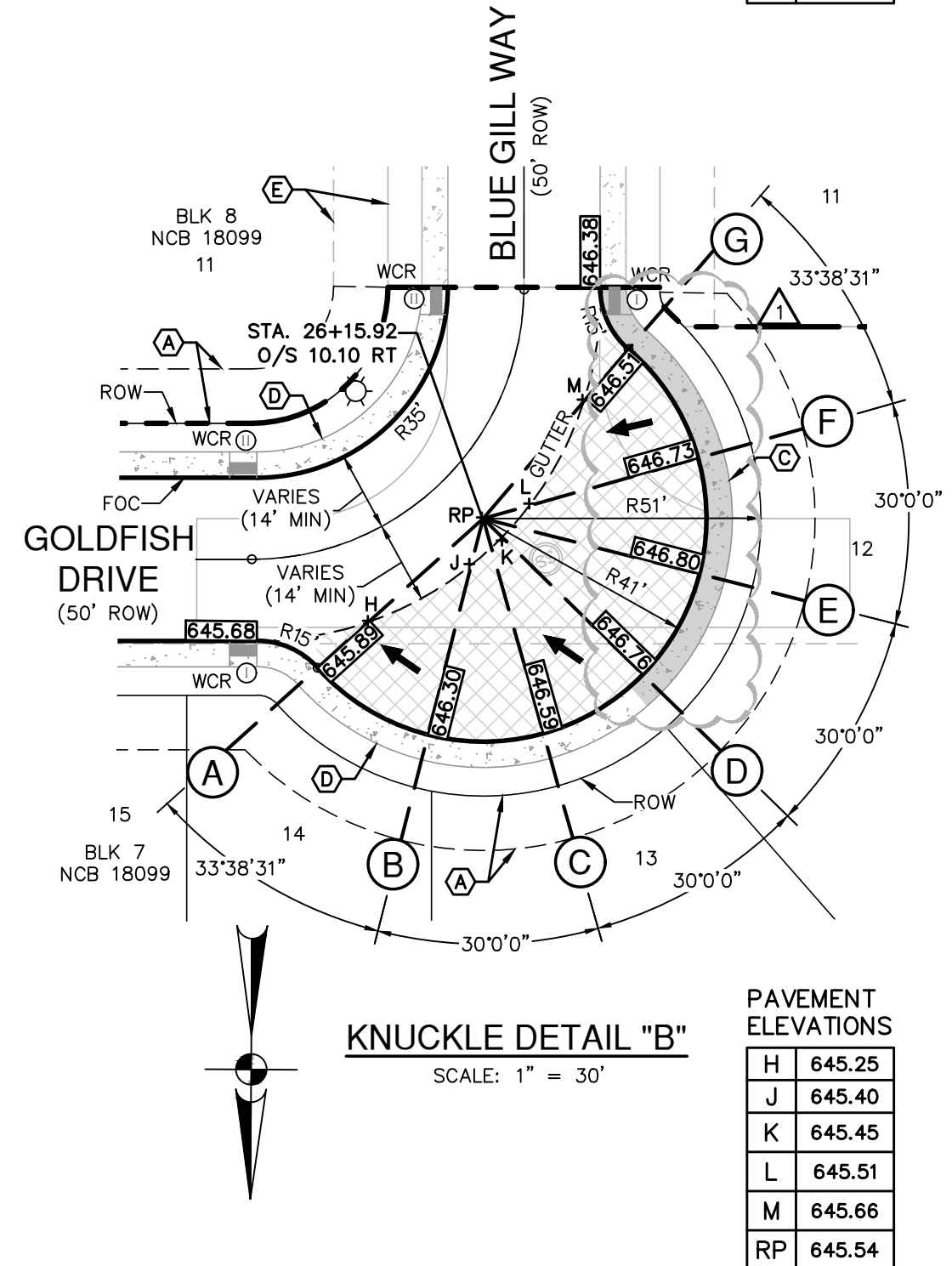
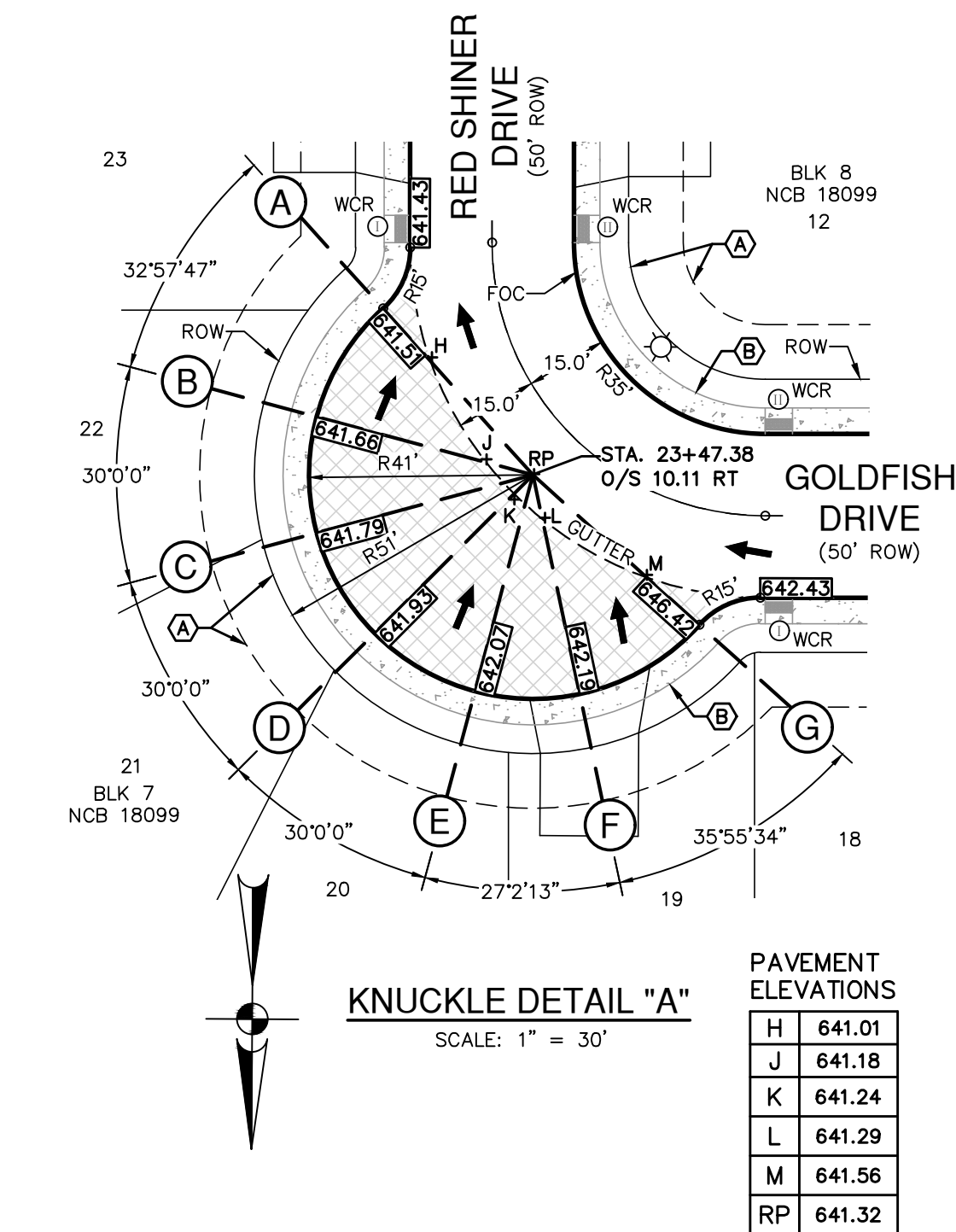
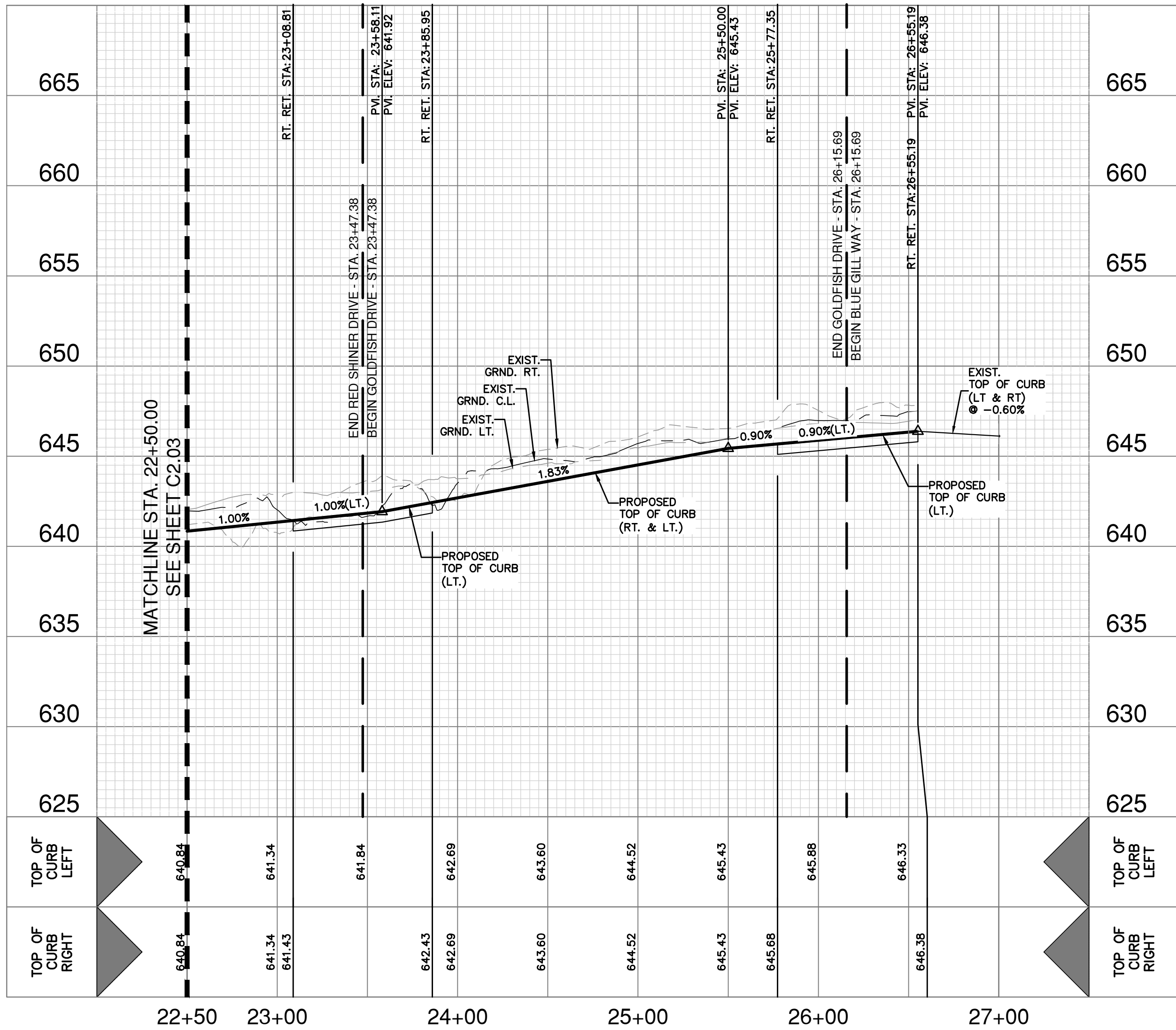
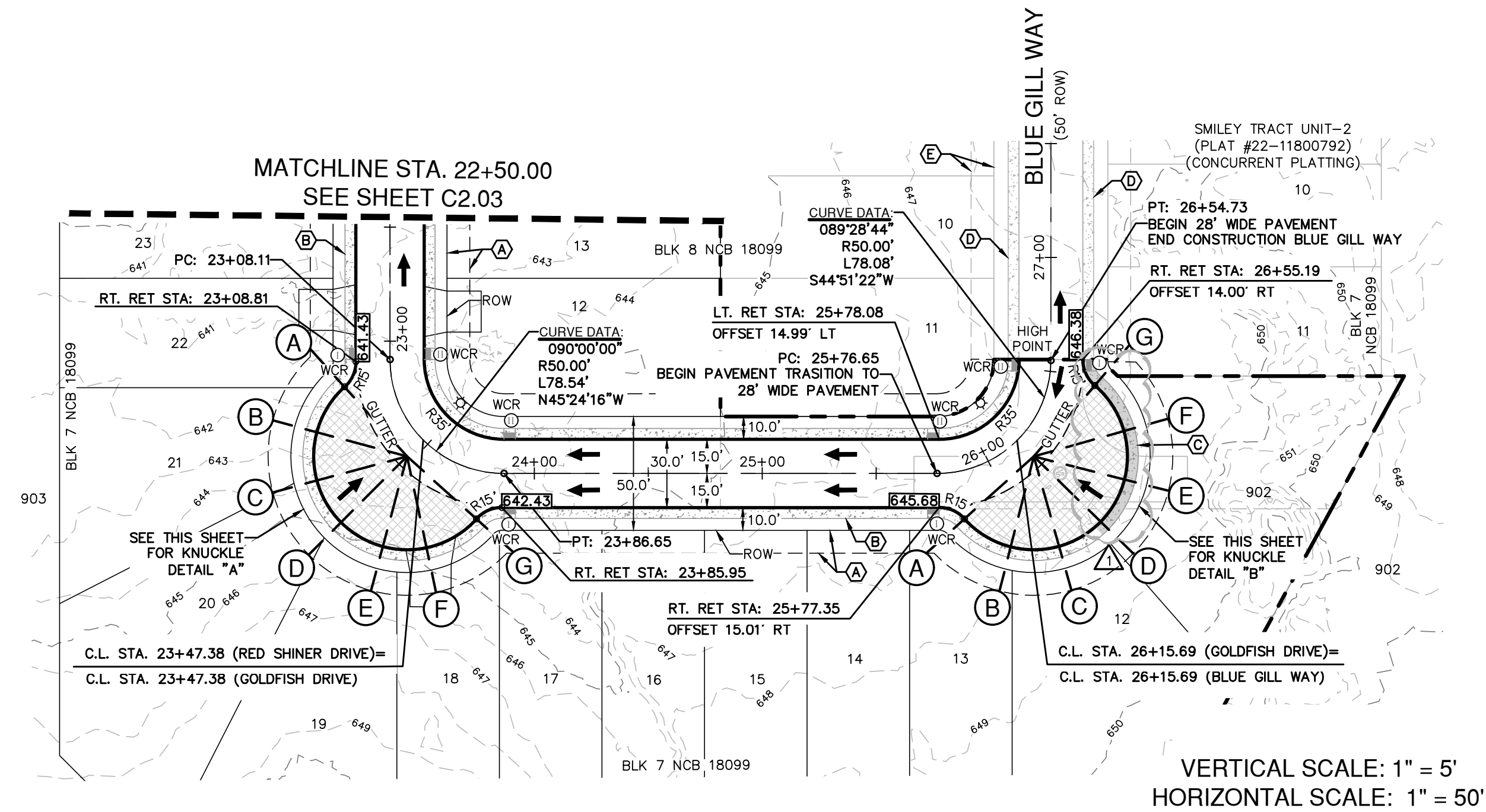
NO.	REVISION	DATE	
		GRADE & ELEVATION CHANGE	11/20/24
1			



PAPE-DAWSON ENGINEERS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008800

SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS
RED SHINER DRIVE ~ STA. 17+00.00 TO STA. 22+50.00
STREET PLAN & PROFILE

PLAT NO.	24-11800067
JOB NO.	13316-03
DATE	JULY 2024
DESIGNER	CB
CHECKED	AS DRAWN CB
SHEET	C2.03



- STREET SELECT FILL NOTE:**
- FILL MATERIAL SHOULD BE NATIVE ON-SITE MATERIAL, FREE OF DELETERIOUS MATERIAL WITH A MINIMUM CBR VALUE OF 3.0 AND A PI MAXIMUM OF 20. THE GRAVEL SIZE SHOULD NOT EXCEED 3 INCHES IN DIAMETER. LIME APPLICATION RATE SHOULD BE RE-EVALUATED FOR THE FILL MATERIAL. THE MATERIAL SHOULD BE PLACED AS PER APPLICABLE CITY OR COUNTY GUIDELINES.
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DATE
11/22/24

REVISION
1 DEVELOPER SIDEWALK ADDED

NO.

STATE OF TEXAS
JON D. ADAME
82567
PROFESSIONAL ENGINEER

Jon D. Adame
11-22-24

PAPE-DAWSON
ENGINEERS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #10028800

SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS
STREET PLAN & PROFILE (SHINER-GOLDFISH)
GOLDFISH DRIVE ~ STA. 23+47.38 TO STA. 26+15.69
BLUE GILL WAY ~ STA. 26+15.69 TO END

PLAT NO. 24-11800067

JOB NO. 13316-03

DATE JULY 2024

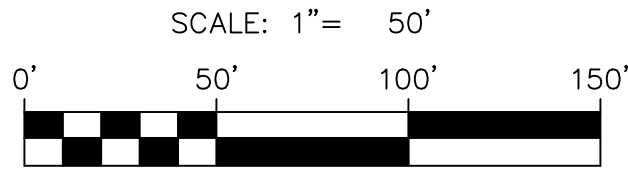
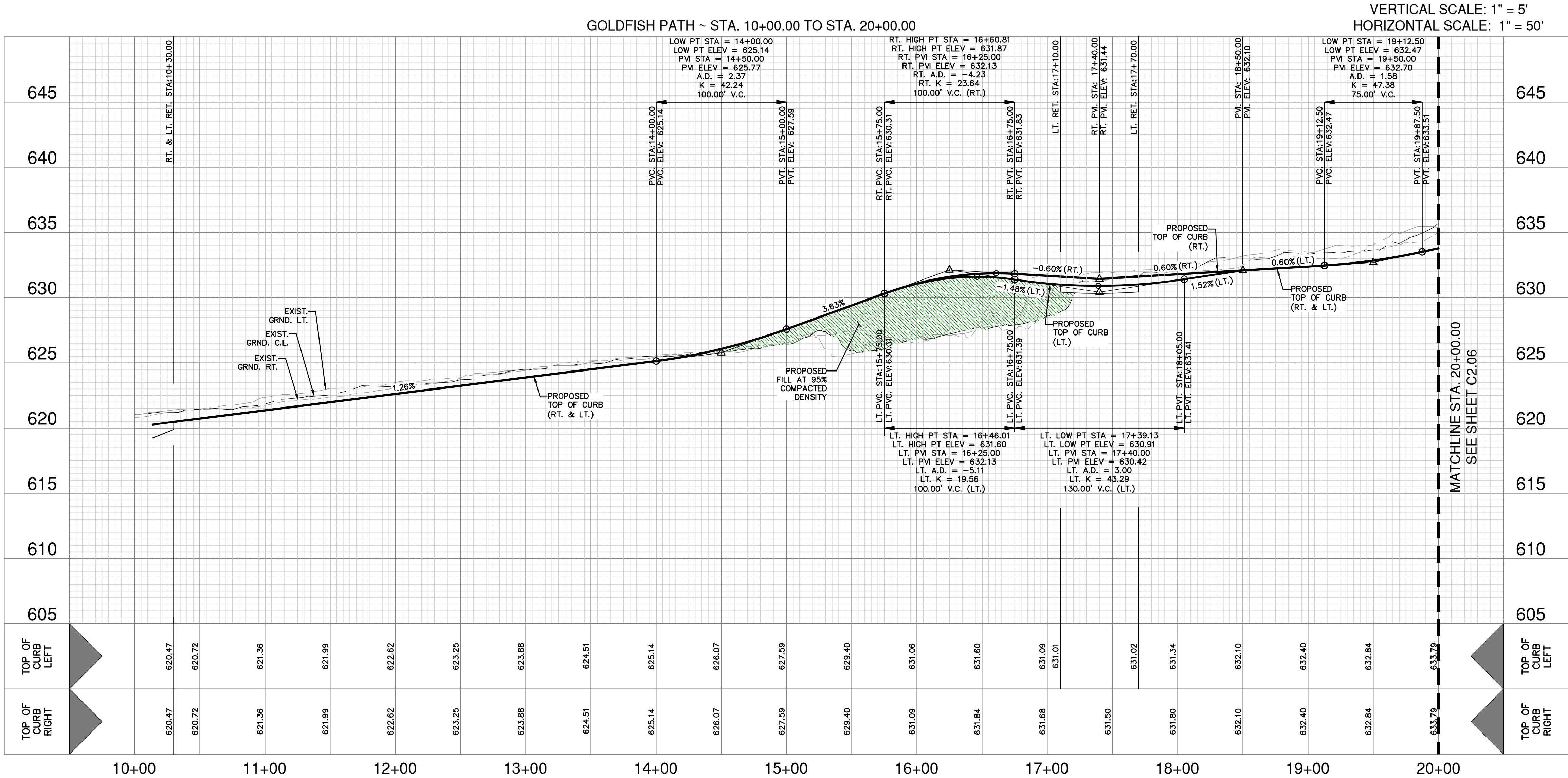
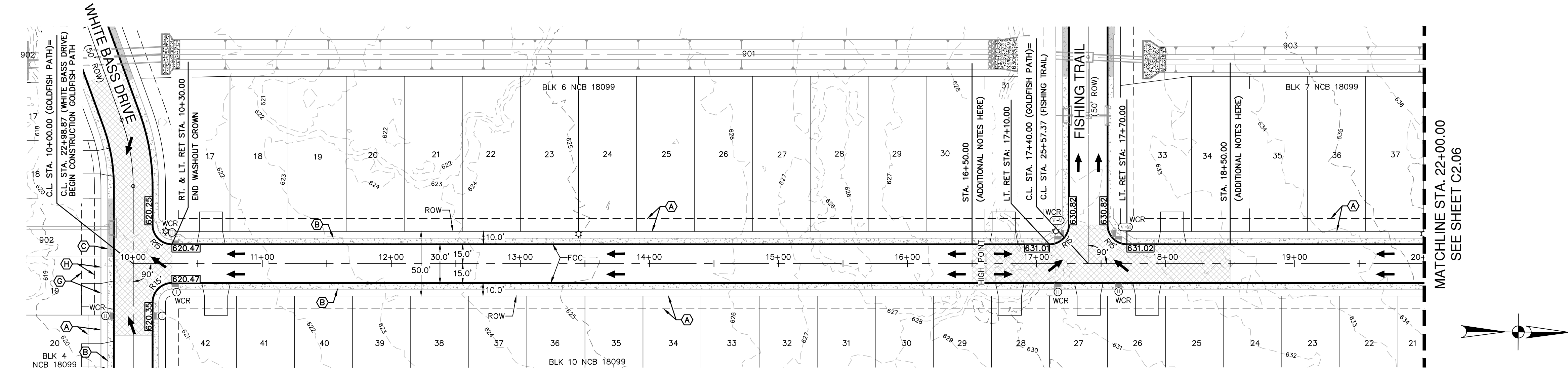
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CHECKED AS

SHEET C2.04

Date: May 21, 2024, 5:55pm, User: jdc, dwg: P:\13316\13316.dwg, User: jdc, dwg: P:\13316\13316.dwg

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STREET LEGEND

PROJECT LIMITS	---
MAINTAIN GUTTER	---
EXISTING CONTOUR	---
WHEELCHAIR RAMP	① WCR
CENTERLINE	CL
RADIUS POINT	RP
POINT OF CURVATURE	PC
POINT OF TANGENCY	PT
RETURN	RET
DRAINAGE FLOW ARROW	→
TOP OF CURB SPOT ELEVATION	857.30
PAVEMENT ELEVATION	857.00(P) x
WASHOUT CROWN SECTION	---
SIDEWALK (SEE SHEET C3.00-C3.03 FOR DEVELOPER/HOMEBUILDER RESPONSIBILITY)	---
DRIVEWAY	---

KEY LEGEND:

- ① 10' ELEC., GAS, TELE, & CA. T.V. EASEMENT
- ② 4' SIDEWALK
- ③ 4' DEVELOPER SIDEWALK
- ④ EXISTING 4' SIDEWALK
- ⑤ EXISTING 10' ELEC., GAS, TELE, & CA. T.V. EASEMENT (PLAT #22-11800792 CONCURRENT PLATTING)
- ⑥ 5' ADA PASSING SPACE
- ⑦ 15' ELEC., GAS, TELE, & CA. T.V. EASEMENT
- ⑧ 5' WATER EASEMENT

SIDEWALK NOTE:

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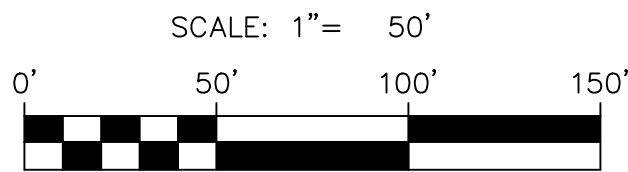
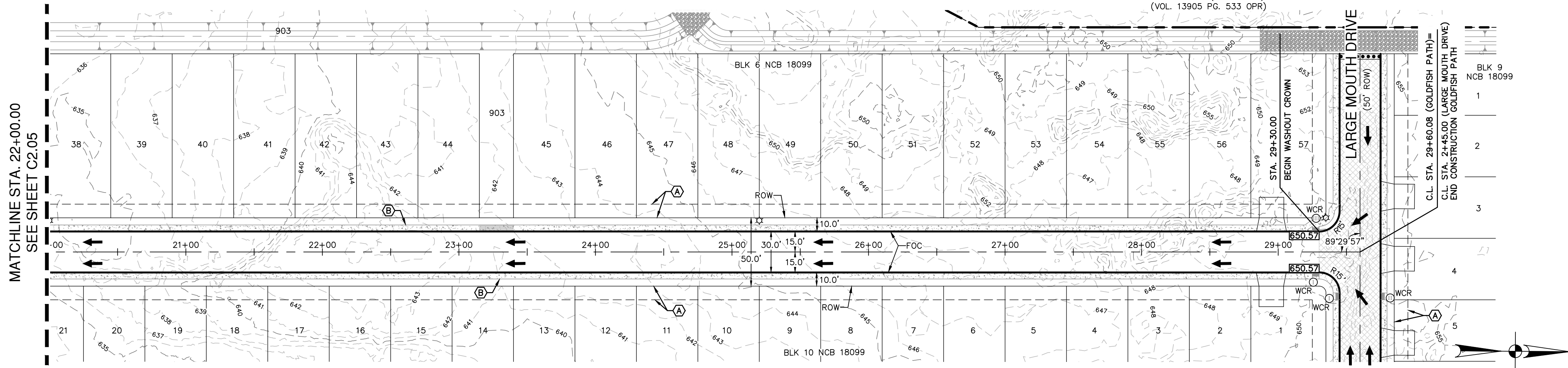
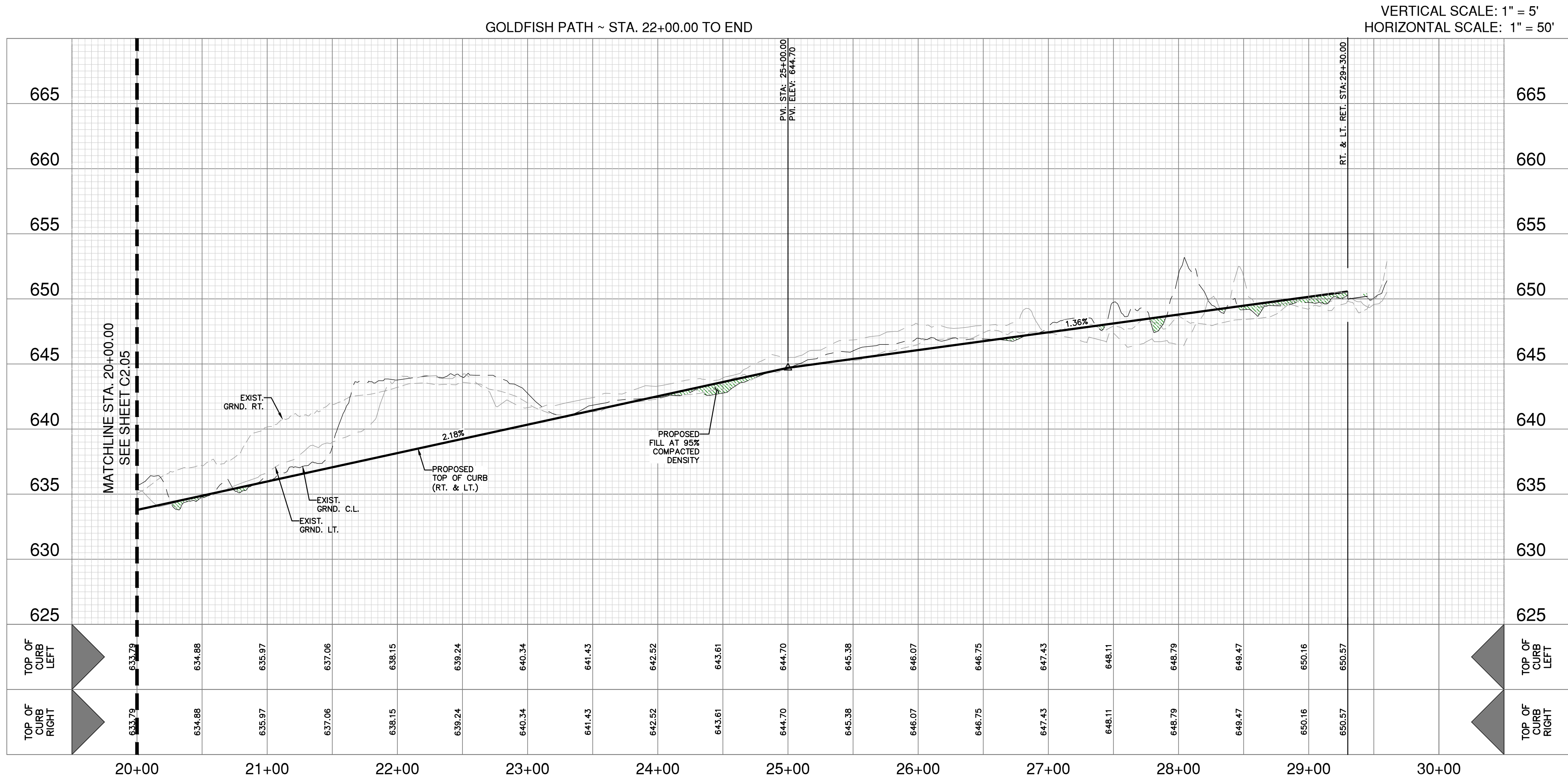
PAPE-DAWSON
ENGINEERS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008800

SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS
GOLF FISH PATH ~ STA. 10+00.00 TO STA. 20+00.00
STREET PLAN & PROFILE

PLAT NO. 24-11800067
JOB NO. 13316-03
DATE MAY 2024
DESIGNER CB
CHECKED AS DRAWN CB
SHEET C2.05

Date: May 21, 2024, 5:55pm, User: jd_adame, File: P:\13316\16\03\Drawings\CH\1-1331603.dwg

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STREET LEGEND

PROJECT LIMITS	---
MAINTAIN GUTTER	---
EXISTING CONTOUR	---
WHEELCHAIR RAMP	① WCR
CENTERLINE	CL
RADIUS POINT	RP
POINT OF CURVATURE	PC
POINT OF TANGENCY	PT
RETURN	RET
DRAINAGE FLOW ARROW	→
TOP OF CURB SPOT ELEVATION	(857.30)
PAVEMENT ELEVATION	857.00(P) x
WASHOUT CROWN SECTION	
SIDEWALK (SEE SHEET C3.00-C3.03 FOR DEVELOPER/HOMEBUILDER RESPONSIBILITY)	
DRIVEWAY	

KEY LEGEND:

- ① 10' ELEC., GAS, TELE, & CA. T.V. EASEMENT
- ② 4' SIDEWALK
- ③ 4' DEVELOPER SIDEWALK
- ④ EXISTING 4' SIDEWALK
- ⑤ EXISTING 10' ELEC., GAS, TELE, & CA. T.V. EASEMENT (PLAT #22-11800792 CONCURRENT PLATTING)
- ⑥ 5' ADA PASSING SPACE

SIDEWALK NOTE:

THE CONSTRUCTION OF SIDEWALKS ADJACENT TO ALL 900 SERIES LOTS WILL BE THE RESPONSIBILITY OF THE DEVELOPER AS SHOWN ON THE OVERALL SIGNAGE PLAN (SHEET C3.00-C3.03). REFER TO SHEET C3.00-C3.03 FOR LOCATIONS OF SIDEWALK CONSTRUCTION WHERE SIDEWALKS ARE NOT SHOWN

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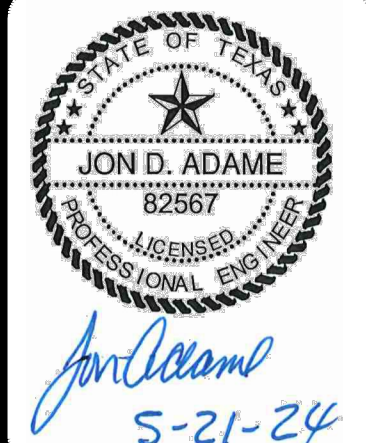
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NO.	REVISION	DATE



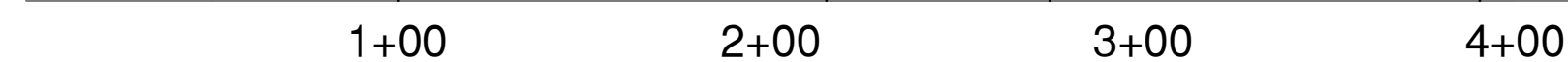
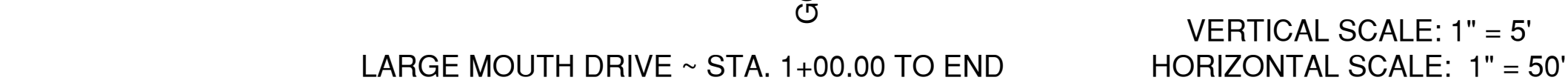
PAPE-DAWSON
ENGINEERS






2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS

GOLDFISH PATH ~ STA. 22+00.00 TO END
STREET PLAN & PROFILE

PLAT NO.	24-11800067
JOB NO.	13316-03
DATE	MAY 2024
DESIGNER	CB
CHECKED	AS DRAWN CB
SHEET	C2.06



PROJECT LIMITS	_____
MAINTAIN GUTTER	_____
EXISTING CONTOUR	----- 970 -----
WHEELCHAIR RAMP	① WCR
CENTERLINE	CL
RADIUS POINT	RP
POINT OF CURVATURE	PC
POINT OF TANGENCY	PT
RETURN	RET
DRAINAGE FLOW ARROW	
TOP OF CURB SPOT ELEVATION	 857.30
PAVEMENT ELEVATION	 857.00(P) ×
WASHOUT CROWN SECTION	
SIDEWALK (SEE SHEET C3.00-C3.03 FOR DEVELOPER/HOMEBUILDER RESPONSIBILITY)	
DRIVEWAY	_____

KEY LEGEND:

- (A) 10' ELEC., GAS, TELE, & CA. T.V. EASEMENT
- (B) 4' SIDEWALK
- (C) 4' DEVELOPER SIDEWALK
- (D) EXISTING 4' SIDEWALK
- (E) EXISTING 10' ELEC., GAS, TELE, &
CA. T.V. EASEMENT
(PLAT #22-11800792 CONCURRENT PLATTING)
- (F) 5' ADA PASSING SPACE

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THE CONSTRUCTION OF SIDEWALKS ADJACENT TO ALL 900 SERIES LOTS WILL BE THE RESPONSIBILITY OF THE DEVELOPER AS SHOWN ON THE OVERALL SIGNAGE PLAN (SHEET C3.00-C3.03). REFER TO SHEET C3.00-C3.03 FOR LOCATIONS OF SIDEWALK CONSTRUCTION WHERE SIDEWALKS ARE NOT SHOWN

STREET SELECT FILL NOTE:

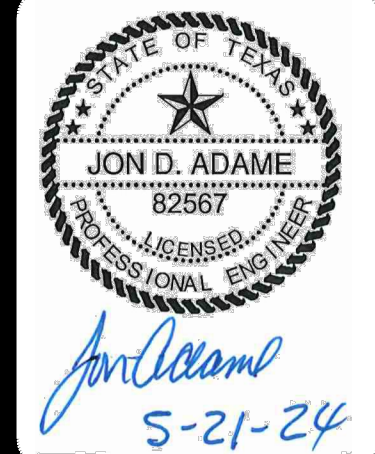
FILL MATERIAL SHOULD BE NATIVE ON-SITE MATERIAL, FREE OF DELETERIOUS MATERIAL WITH A MINIMUM CBR VALUE OF 3.0 AND A PI MAXIMUM OF 20. THE GRAVEL SIZE SHOULD NOT EXCEED 3 INCHES IN DIAMETER. LIME APPLICATION RATE SHOULD BE RE-EVALUATED FOR THE FILL MATERIAL. THE MATERIAL SHOULD BE PLACED AS PER APPLICABLE CITY OR COUNTY GUIDELINES.

WHEEL CHAIR NOTE:

WHEEL CHAIR RAMPS (WCR) TO BE CENTERED ON STATION NOTED BELOW.
ELEVATION SHOWN ARE TOP OF CURB AND NOT GUTTER

STREET NOTES:

1. A BEARX COUNTY PERMIT MUST BE OBTAINED BEFORE WORKING IN BEARX COUNTY ROW. CONTRACTOR SHALL COORDINATE A TRAFFIC CONTROL PLAN FOR ALL WORK WITHIN THE ROW. ADDITIONAL WARNING SIGNS MUST BE RECOMMENDED BY THE ENGINEER ONCE THE ROADWAYS ARE CONSTRUCTED.
2. CONTRACTOR SHALL MATCH EXISTING PAVEMENT AT TIE-IN, IF EXISTING PAVEMENT ELEVATION DIFFERS SIGNIFICANTLY, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONTINUING WORK.
3. SIDEWALKS SHALL BE CONSTRUCTED 3'-FT FROM THE BACK OF CURB FOR ALL LOCATIONS WHERE THE SIDEWALK IS SHOWN OFFSET. REFER TO STREET DETAIL SHEET FOR SIDEWALK AND RAMP DETAILS.
4. NO PERMANENT STRUCTURES HIGHER THAN 3 FEET, AND LOWER THAN 8 FEET ABOVE THE PAVEMENT, INCLUDING STRUCTURES, WALLS, FENCES, AND RETENTION, SHALL BE ALLOWED WITHIN THE CLEAR VISION EASEMENT. CONTRACTOR SHALL GRADE AREAS WITHIN CLEAR VISION EASEMENTS SUCH THAT THE ELEVATION WITHIN THE EASEMENT IS NOT HIGHER THAN 3 FEET ABOVE THE ADJACENT TOP OF PAVEMENT.
5. DRIVEWAYS SHOWN ON THIS PLAN ARE FOR THE SOLE PURPOSE OF INDICATING A POTENTIAL CONFLICT WITH CURB RAMP, DRAINAGE INFRASTRUCTURE, OR OTHER CONFLICT. DRIVEWAY LOCATION IS SUBJECT TO CHANGE BASED ON HOME SELECTION AND FINAL LOT DESIGN.
6. CHANGES IN THE SIDEWALK LOCATION FOR A MAXIMUM LINEAR DISTANCE OF TWO HUNDRED (200) FEET ARE PERMITTED TO BE APPROVED BY THE INSPECTOR OF THE PROJECT. THE STREET PLAN AND THE UTILITY LAYOUT PER UDC SECTION 35-506 (C)(6).

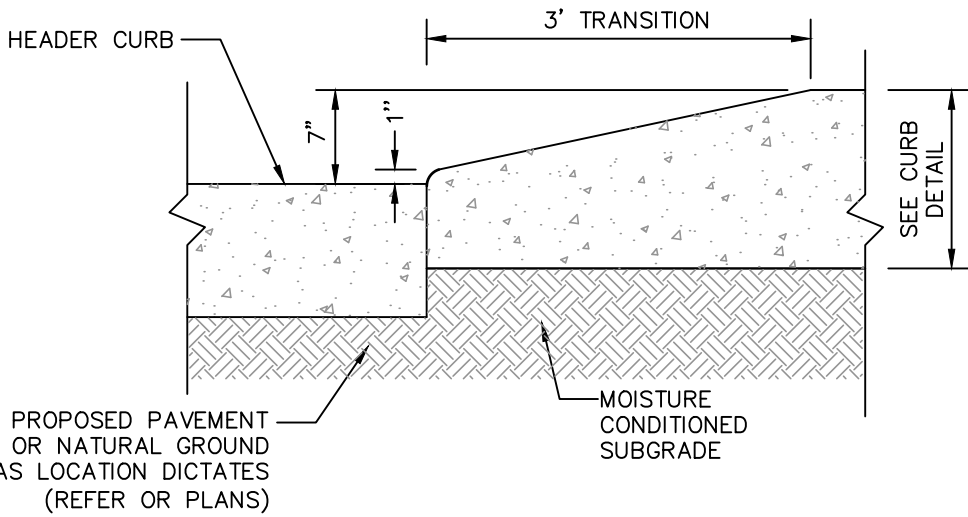
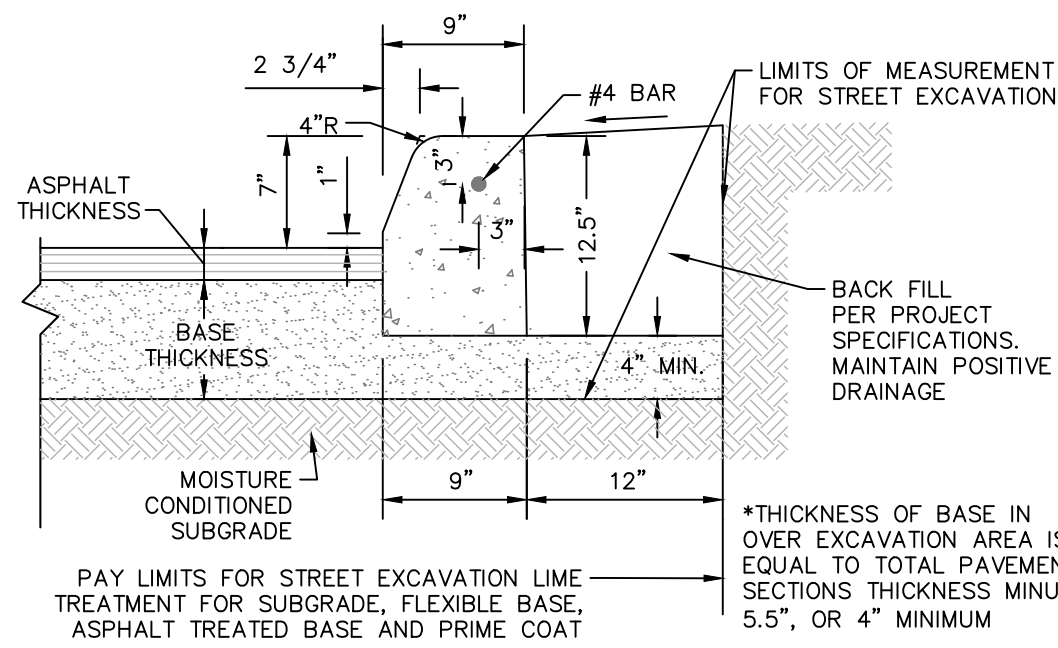
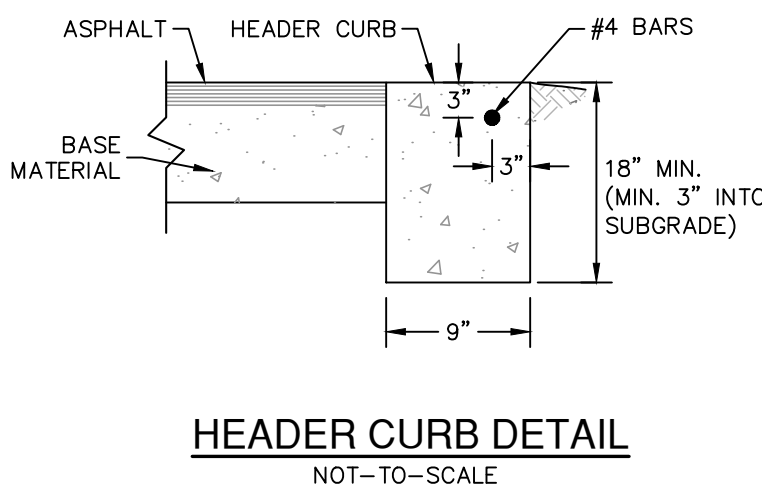
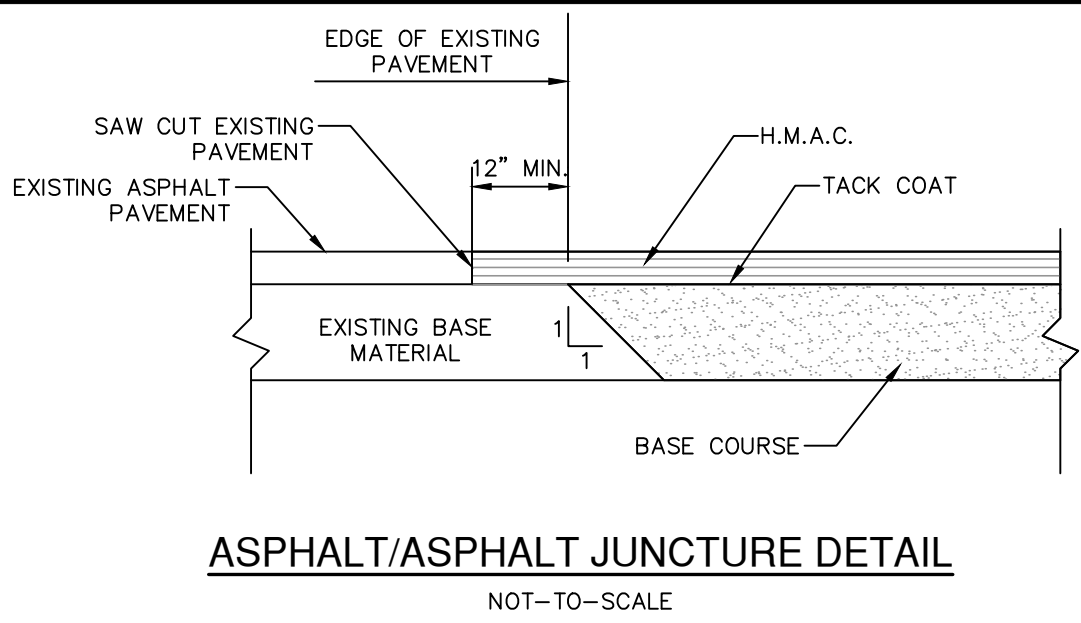
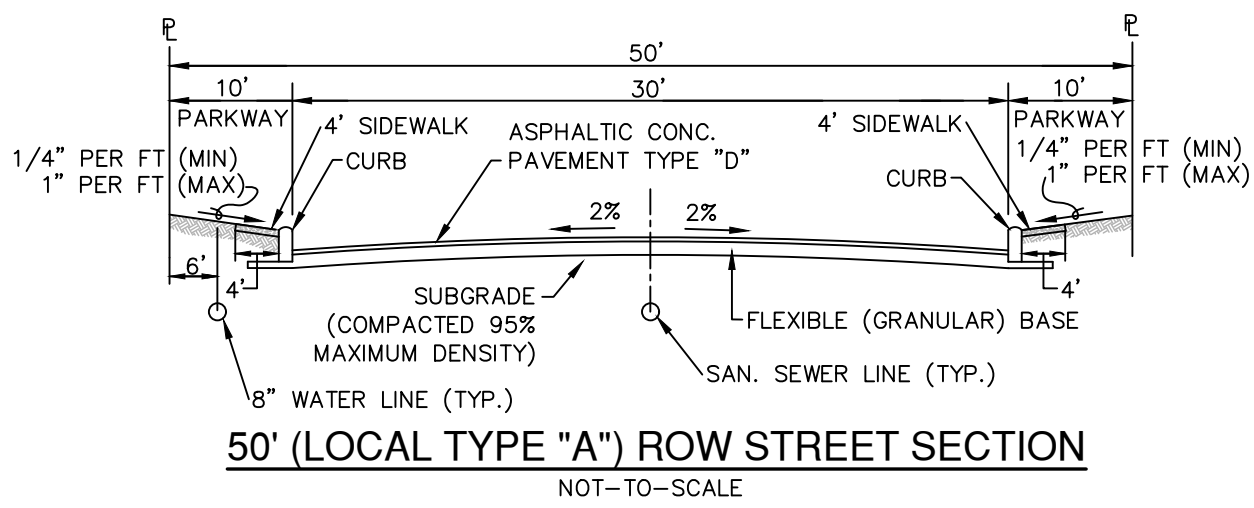
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**PAPE-DAWSON
ENGINEERS**
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028600

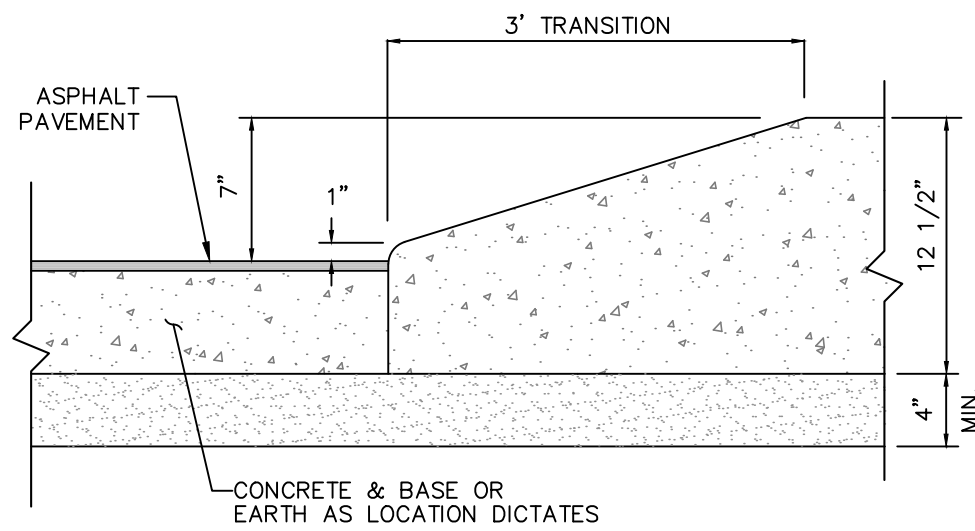
SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS

PLAT NO. 24-11800067
JOB NO. 13316-03
DATE MAY 2024
DESIGNER CB
CHECKED AS DRAWN CB
SHEET C2.07

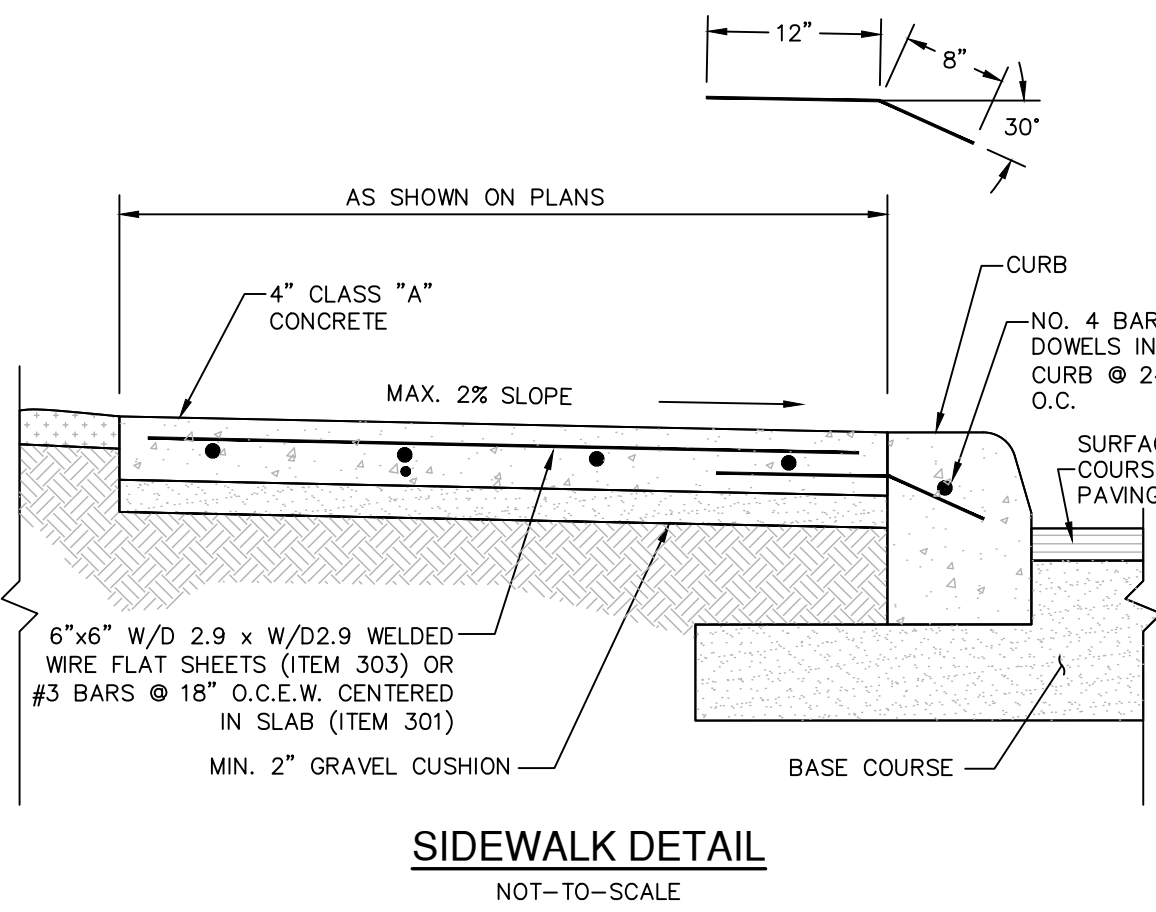
PAVEMENT SECTION DETAIL								
STREET NAME	STATION	TYPE "D" HMAC	TYPE "C" HMAC	CRUSHED LIMESTONE BASE	STABILIZED SUBGRADE	GEOGRID (TENSAR TRIAX TX5)	CBR	STRUCTURAL NUMBER
FISHING TRAIL	20+83.53 TO END	2"	—	11"	6*	NO	4.0	2.42
WHITE BASS DRIVE	18+06.79 TO END	2"	—	11"	6*	NO	4.0	2.42
RED SHINER DRIVE	10+00.00 TO 23+47.38	2"	—	11"	6*	NO	4.0	2.42
GOLDFISH DRIVE	23+47.38 TO 26+15.69	2"	—	11"	6*	NO	4.0	2.42
BLUE GILL WAY	26+15.69 TO END	2"	—	11"	6*	NO	4.0	2.42
GOLDFISH PATH	10+00.00 TO END	2"	—	11"	6*	NO	4.0	2.42
LARGE MOUTH DRIVE	1+00.00 TO END	2"	—	11"	6*	NO	4.0	2.42



CURB TRANSITION DETAIL
(FROM HEADER CURB TO STANDARD CURB)
NOT-TO-SCALE

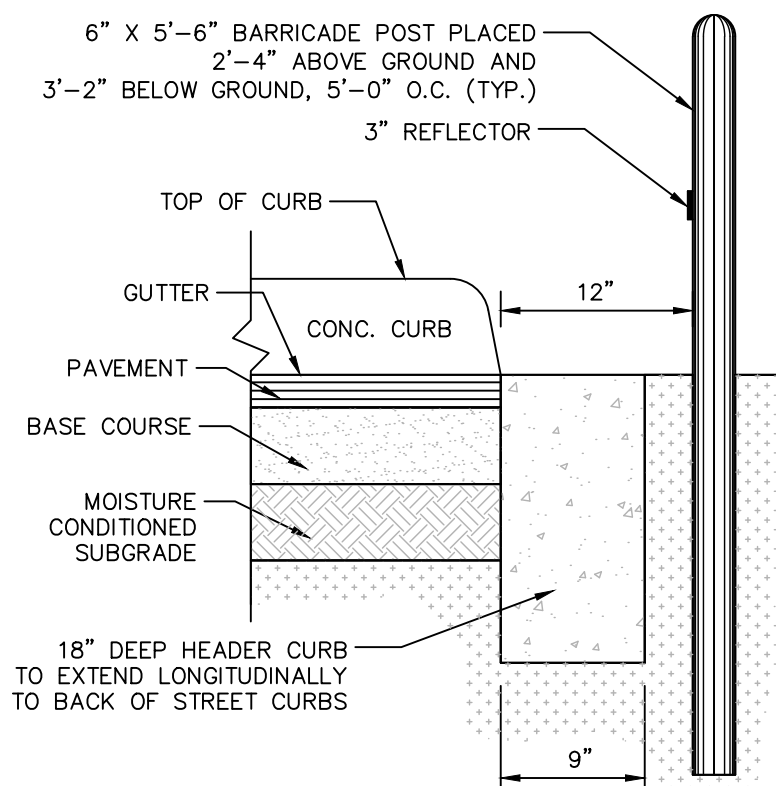


CURB TRANSITION DETAIL
(FROM PAVEMENT TO STANDARD CURB)
NOT-TO-SCALE



SIDEWALK DETAIL

NOT-TO-SCALE



HEADER CURB & BARRICADE POST DETAIL

- GENERAL NOTES:

1. CONTRACTOR SHALL REFERENCE THE PROJECT PAVEMENT DESIGN REPORT PREPARED BY **ROCK ENGINEERING** DATED **AUGUST 24, 2022**.
2. CONTRACTOR SHALL RETAIN A GEOTECHNICAL ENGINEER TO VERIFY THE SUB GRADE CONDITION PRIOR TO PLACING ANY BASE MATERIAL. GEOTECHNICAL ENGINEER SHALL DETERMINE THE SUB GRADE CONDITION AND IF LIFE STABILIZATION IS REQUIRED.
3. GEOTECHNICAL ENGINEER SHOULD VERIFY THE STREET SUBGRADE AT THE TIME OF CONSTRUCTION PRIOR TO PLACEMENT OF AGGREGATE BASE.
4. THE FLEXIBLE BASE COURSE SHOULD BE CRUSHED LIMESTONE CONFORMING TO TxDOT STANDARD SPECIFICATIONS, ITEM 247, TYPE A, GRADES 1 OR 2.
5. THE MOISTURE CONTENT OF THE FILL SHOULD BE MAINTAINED WITHIN THE RANGE OF OPTIMUM WATER CONTENT TO 3 PERCENTAGE POINTS ABOVE THE OPTIMUM WATER CONTENT UNTIL PERMANENTLY COVERED.
6. IN THE EVENT THAT THE CLAY FILL USED IS DIFFERENT THAN THE EXISTING SUBGRADE, THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT COULD BE INVALIDATED AND THE DESIGN ENGINEER MUST BE CONSULTED TO DETERMINE IF ADDITIONAL CBR TESTING AND THICKER PAVEMENT SECTIONS ARE REQUIRED.
7. WHERE PAVEMENT SUBGRADE IS LOCATED WITHIN TWO- FEET OF THE EXISTING GROUND SURFACE (STRATUM 1 CLAYS), MOISTURE CONDITIONED SUBGRADE WILL BE REQUIRED. GEOTECHNICAL ENGINEER SHOULD VERIFY THE STREET SUBGRADE AT THE TIME OF CONSTRUCTION PRIOR TO PLACEMENT OF AGGREGATE BASE TO DETERMINE WHERE THE MOISTURE CONDITIONED SUBGRADE IS NEEDED. REFERENCE GEOTECHNICAL ENGINEERING REPORT FOR MORE INFORMATION.
8. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL MATERIAL TESTING WITH THE PROJECT GEOTECHNICAL ENGINEER. TESTING SHALL BE PAID FOR BY THE OWNER.
9. FILL MATERIAL SHOULD BE NATIVE ON-SITE MATERIAL, FREE OF DELETERIOUS MATERIAL WITH A MINIMUM CBR VALUE OF 4 AND A PI WITHIN RANGE OF 5 AND 20. THE GRAVEL SIZE SHOULD NOT EXCEED 3 INCHES IN DIAMETER. LIME OR CEMENT APPLICATION RATES SHOULD BE RE-EVALUATED FOR THE FILL MATERIAL. THE MATERIAL SHOULD BE PLACED AS PER APPLICABLE CITY OR COUNTY GUIDELINES. CONTRACTOR TO VERIFY EXACT SPECIFICATIONS WITH PROJECT GEOTECHNICAL ENGINEERING REPORT.
10. A CITY OF SAN ANTONIO PERMIT MUST BE OBTAINED BEFORE WORKING IN THE CITY OF SAN ANTONIO ROAD. CONTRACTOR SHALL COORDINATE A TRAFFIC CONTROL PLAN FOR ALL WORK WITHIN THE ROW. ADDITIONAL WARNING SIGNS MAY BE RECOMMENDED BY THE ENGINEER ONCE THE ROADWAYS ARE CONSTRUCTED.

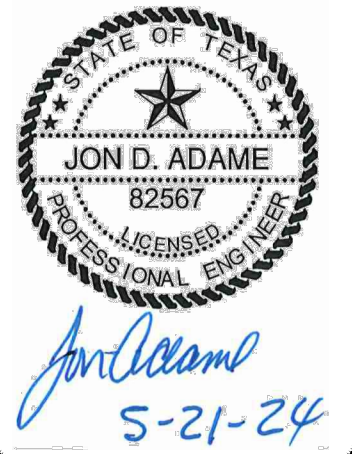
STREET SUBGRADE NOTES:

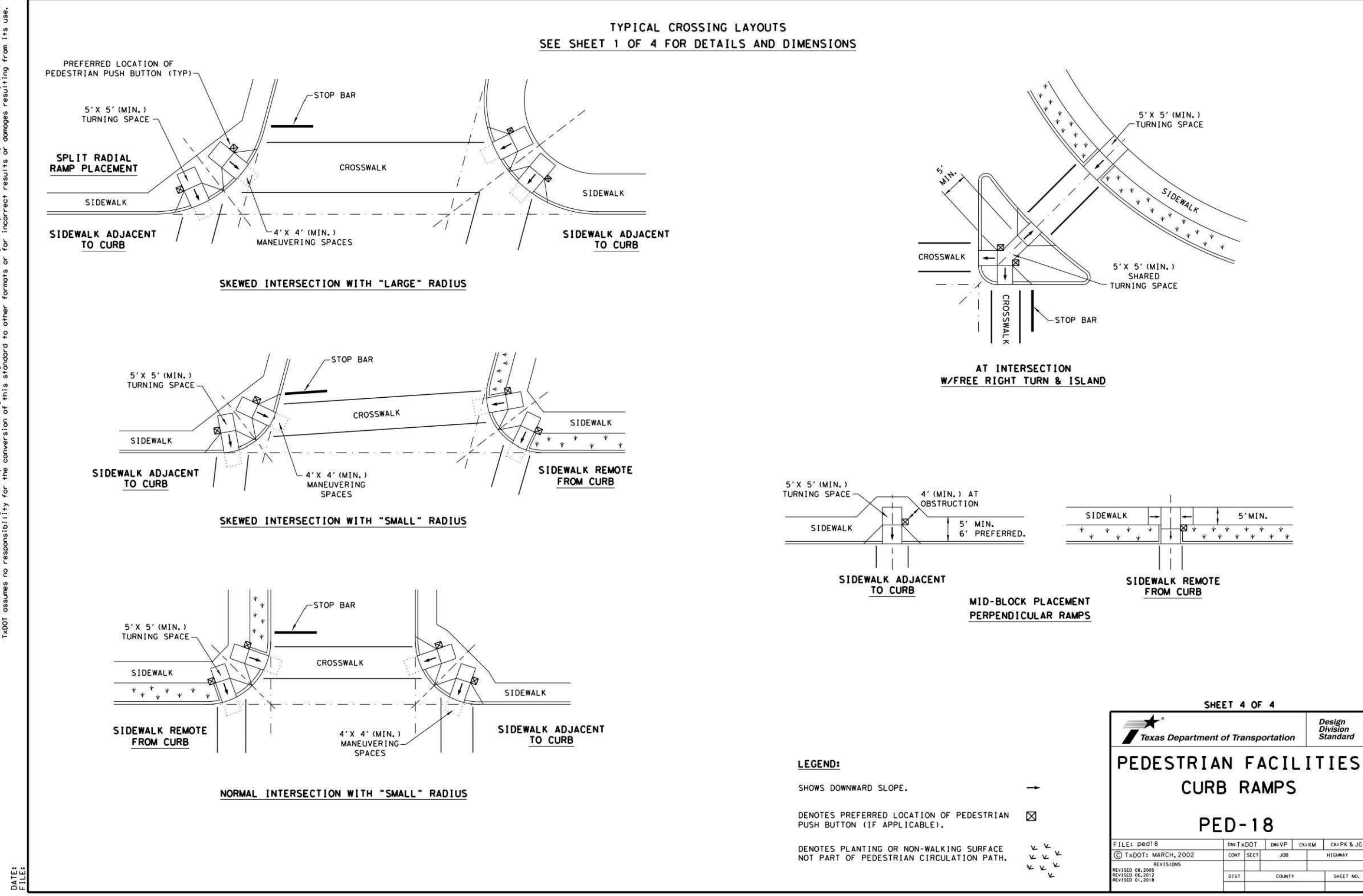
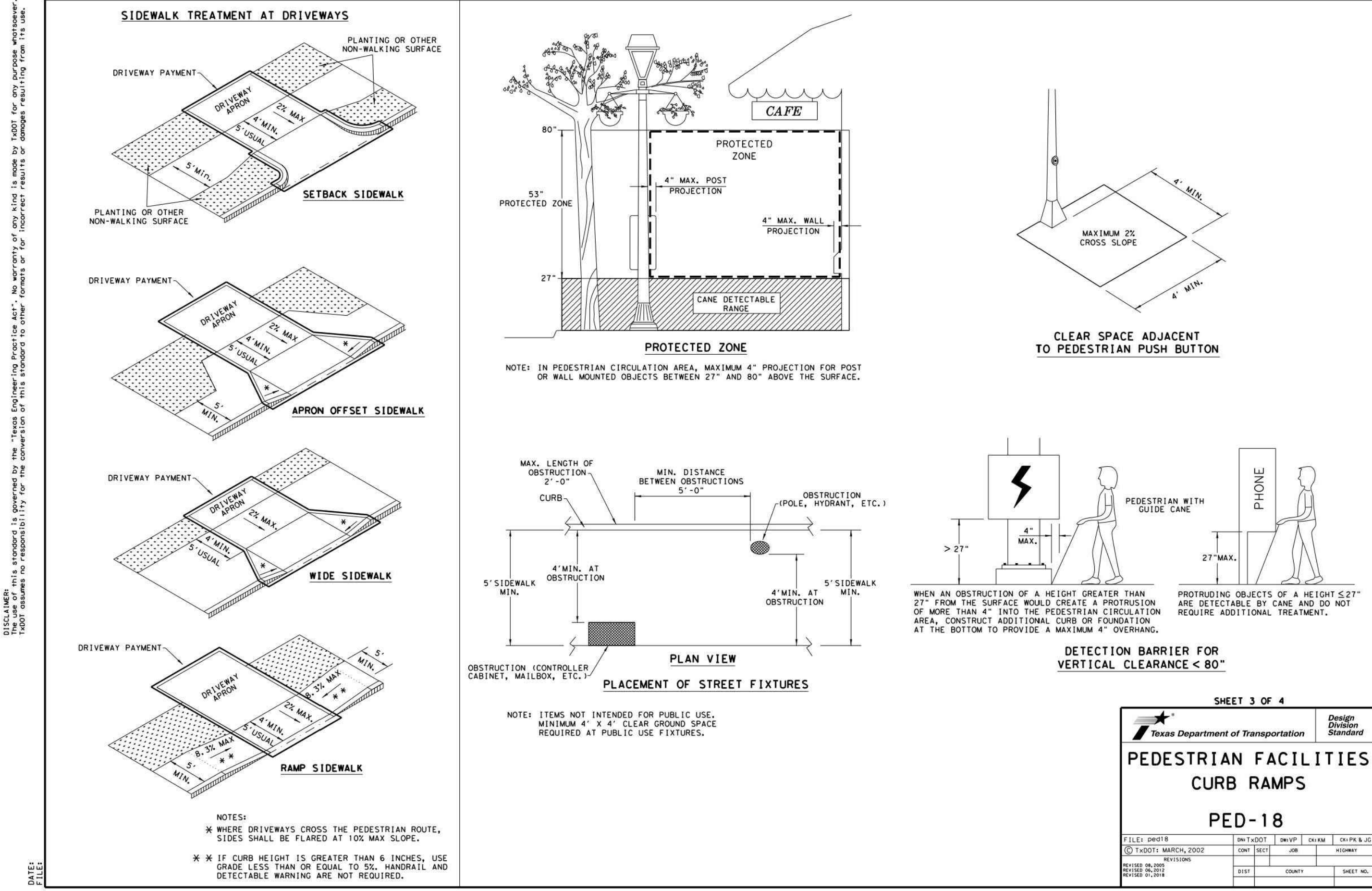
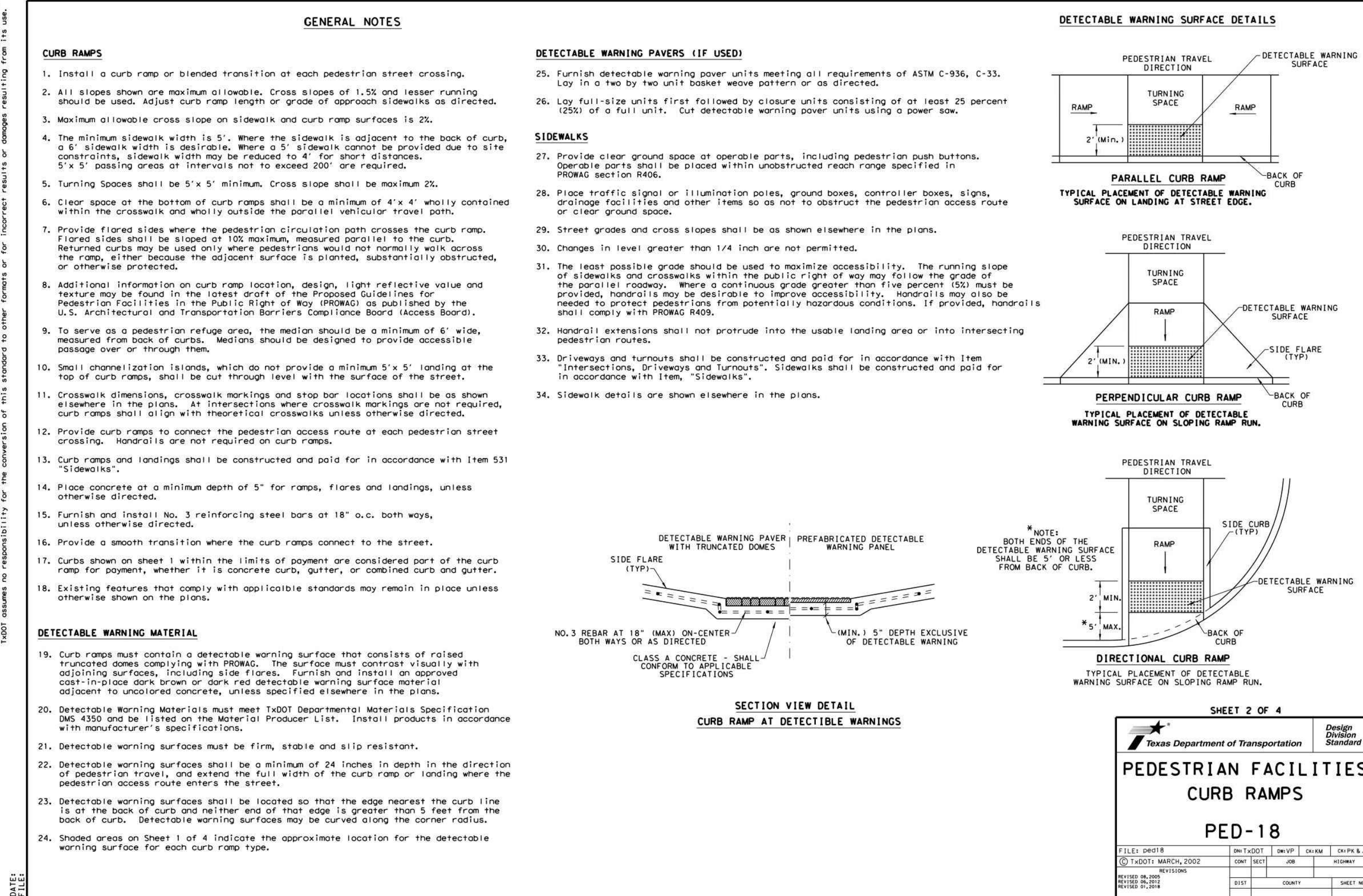
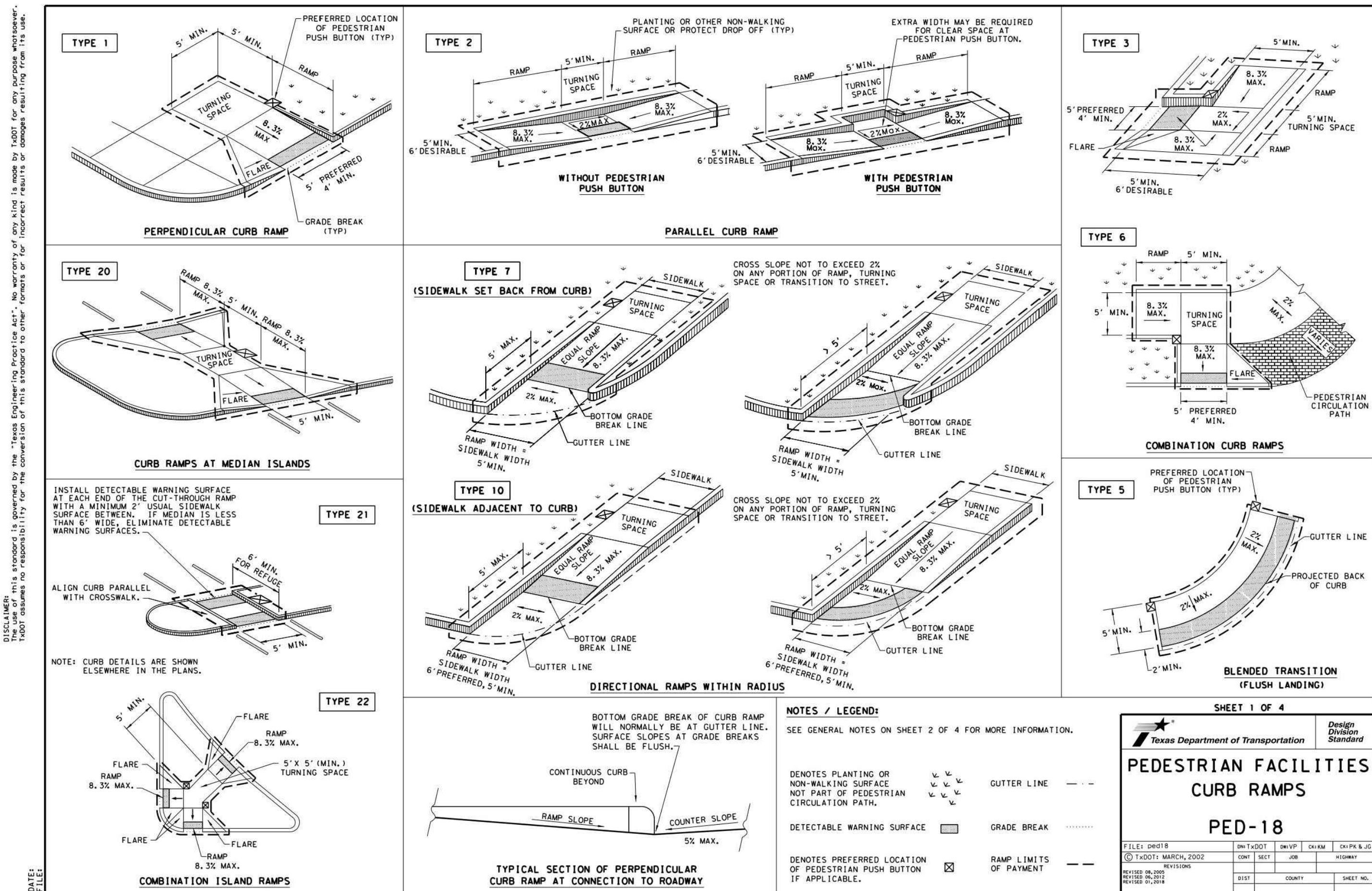
1. IF THE STREET SUBGRADE PLASTICITY INDEX VALUE IS GREATER THAN 20, SUBGRADE STABILIZATION IS NEEDED AS PER CITY OF SAN ANTONIO REQUIREMENTS.
2. IF THE SUBGRADE PLASTICITY INDEX VALUE IS 20 OR LESS, SUBGRADE STABILIZATION IS NOT NEEDED. THE SUBGRADE SHOULD BE MOISTURE CONDITIONED (COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AT A MINIMUM MOISTURE CONTENT OF OPTIMUM PLUS 2 PERCENT (TEXT114E)).
3. THE SUBGRADE SHOULD BE STABILIZED USING 5 PERCENT LIME TO A DEPTH OF 6 INCHES AS NOTED ABOVE.
4. THE SUBGRADE SOILS SHOULD BE TESTED FOR SOIL SULFATE CONTENT PRIOR TO STABILIZATION. IF THE SOIL SULFATE CONTENT IS HIGH, AN ALTERNATE PROCEDURE / RECOMMENDATION WILL BE NEEDED.
5. LIME APPLICATION RATE OF 27.0 LBS PER SQ YARD FOR 6 INCH DEPTH OF STABILIZATION IS RECOMMENDED.
6. APPROVED FILL MATERIAL SHOULD BE USED TO RAISE THE GRADE. THE FILL SHOULD BE FREE OF DELETERIOUS MATERIAL WITH A MINIMUM CBR VALUE OF 2.5. LIME APPLICATION RATES SHOULD BE RE-EVALUATED AND TESTED FOR SULFATE CONTENT PRIOR TO USE OF THE FILL MATERIAL. THE MATERIAL SHOULD BE PLACED AS PER APPLICABLE CITY OR COUNTY GUIDELINES.
7. THE SUBGRADE SHOULD BE PROOF ROLLED TO IDENTIFY SOFT AREAS BEFORE STABILIZATION.

LIME NOTES:

- FOR LIME STABILIZATION CONSTRUCTION VERIFICATION THE FOLLOWING SHALL BE CONDUCTED ON THE FIELD:
1. AFTER INITIAL MIXING THE SOIL-LIME MIXTURE SHALL MELLOW FOR A PERIOD OF TWO TO THREE (2-3) DAYS. MAINTAIN MOISTURE DURING MELLOWING.
 2. AFTER MELLOWING AND FINAL MIXING, THE PULVERIZATION SHALL BE CHECKED USING THE FOLLOWING CRITERIA (REMOVE NON-SLAKING AGGREGATES RETAINED ON THE 3/8 INCH SIEVE FROM THE SAMPLE):

• MINIMUM PASSING 1/2" SIEVE	100
• MINIMUM PASSING 3/8" SIEVE	85
• MINIMUM PASSING NO. 4 SIEVE	60
 3. SAMPLE SOIL-LIME MIXTURE FOR DETERMINATION OF MAXIMUM DRY DENSITY (MDD). IN THE LABORATORY, MDD SPECIMENS TO 95% OF MDD AT OPTIMUM MOISTURE CONTENT AND VERIFY UCS TO BE AT LEAST 160 PSI IN ACCORDANCE WITH PROCEDURE OUTLINED IN THE BEXAR COUNTY FLEXIBLE PAVEMENT DESIGN CRITERIA GUIDE FOR MIXTURE DESIGN.
 4. COMPACT AND CHECK FIELD DENSITY (MINIMUM OF 95% OF MDD REQUIRED).
 5. CURE FOR AN ADDITIONAL 2 TO 5 DAYS (TOTAL MELLOWING AND CURING TIME SHOULD TOTAL AT LEAST 5 DAYS).
 6. VERIFY DEPTH OF LIME STABILIZED LAYER TO DEPTH AS NOTED ON PLAN TO WITHIN +/- 1.0 INCH.





NO. REVISION

DATE

STATE OF TEXAS

PROFESSIONAL ENGINEER

82567

Jon Adams

5-21-24

PAPE-DAWSON

ENGINEERS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000

TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1002800

SMILEY TRACT UNIT 3 & 4

SAN ANTONIO, TEXAS

STREET DETAILS

PLAT NO. 24-11800067

JOB NO. 13316-03

DATE MAY 2024

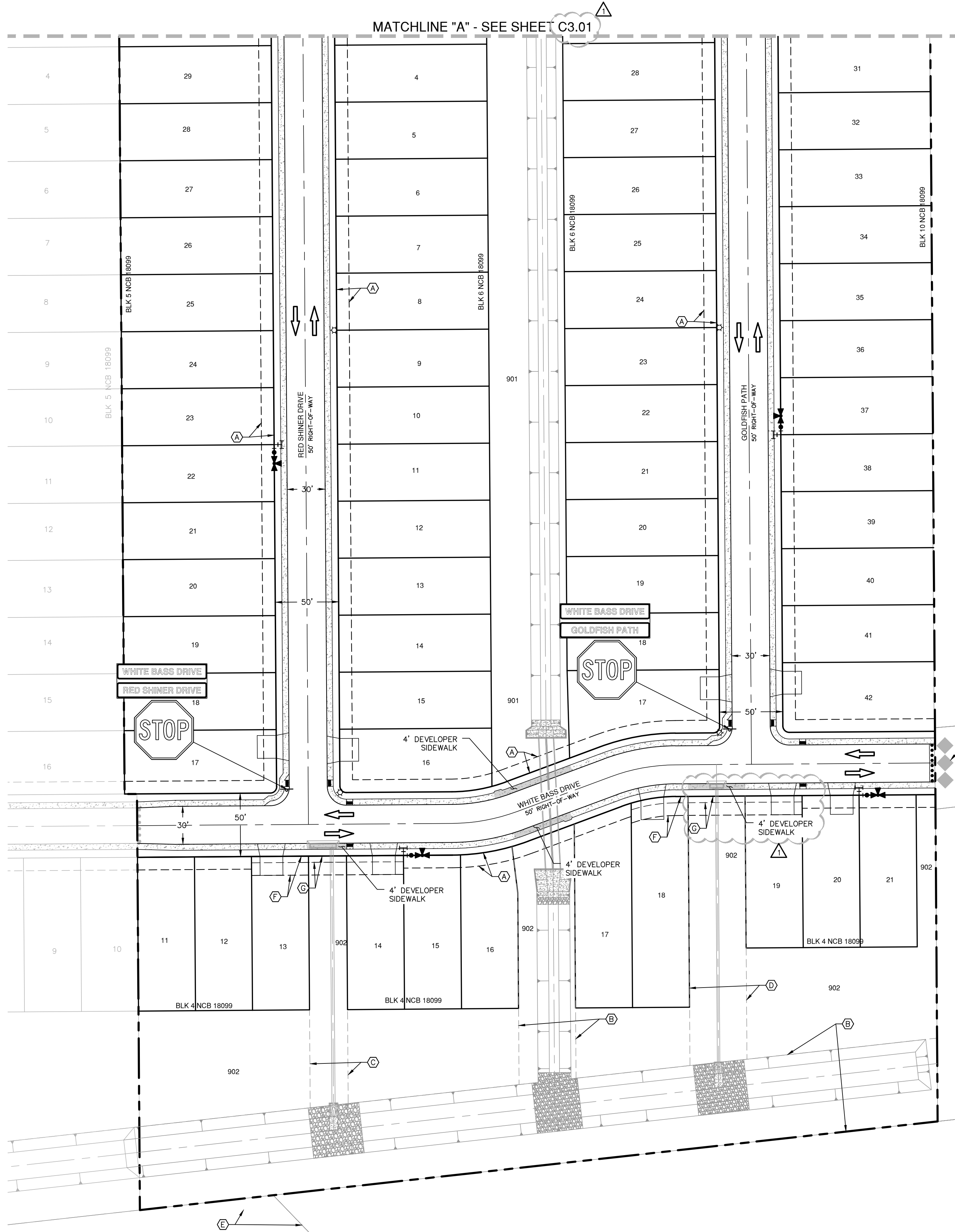
DESIGNER CB

CHECKED AS DRAWN CB

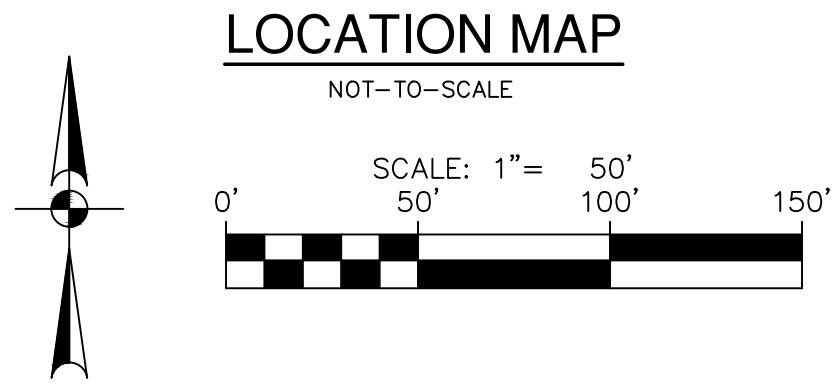
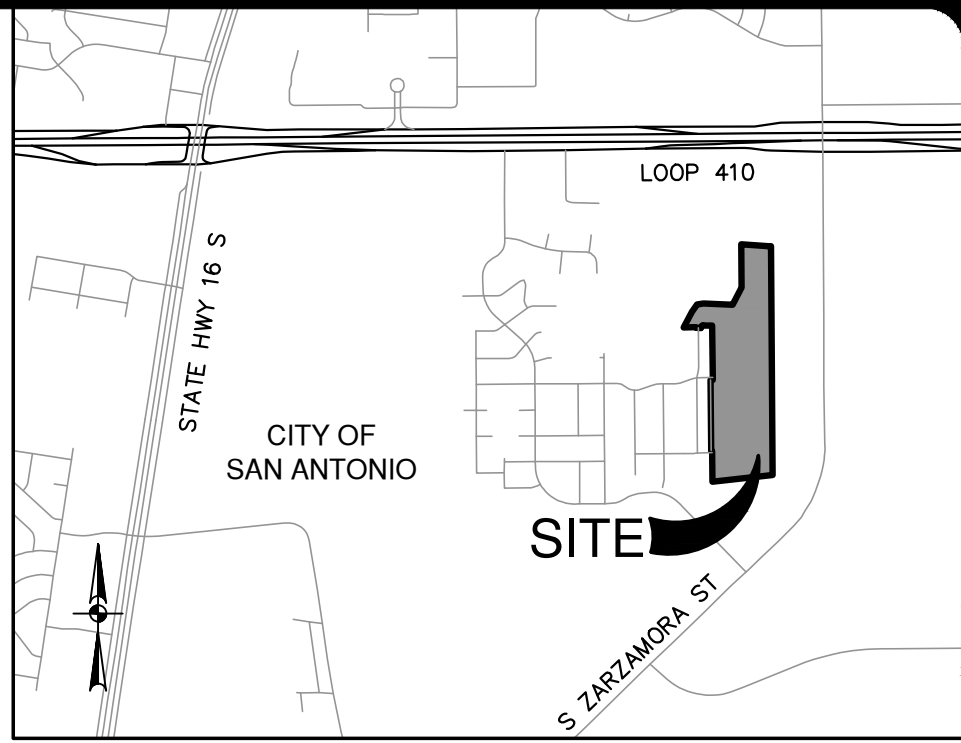
SHEET C2.11

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



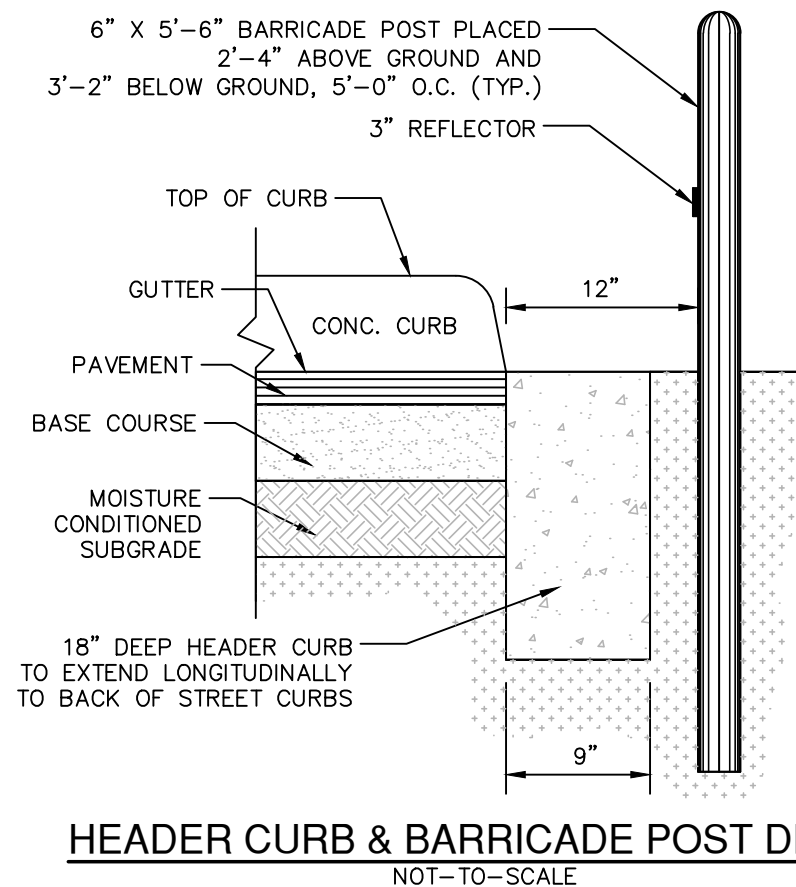
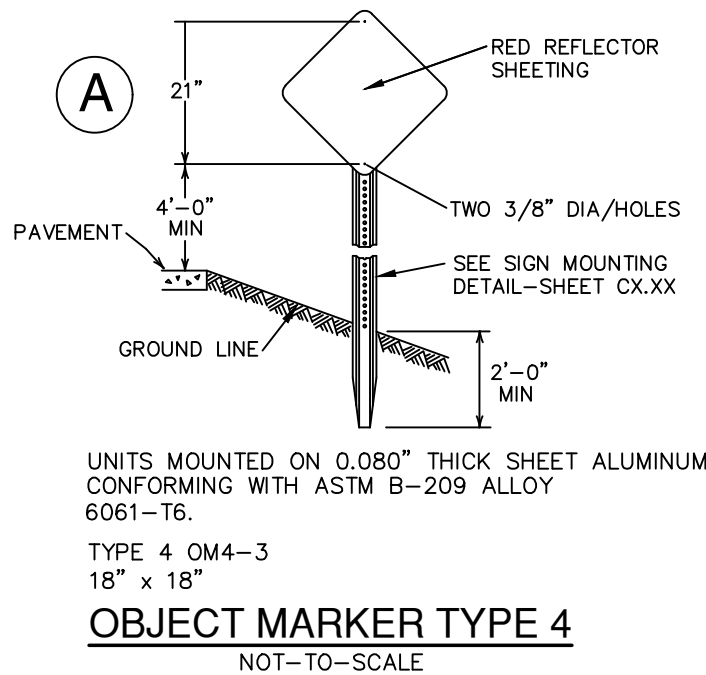
SYMBOL	ITEM NUMBER	SYMBOL	ITEM NUMBER
			W14-1T
			W16-2oP
			R1-1
			30"x30"
	531.57		531.3



KEY LEGEND

- A 10' ELEC., GAS, TELE., & CA. T.V. EASEMENT
- B VARIABLE WIDTH DRAINAGE EASEMENT
- C 30' DRAINAGE EASEMENT
- D 45' DRAINAGE EASEMENT
- E EXISTING 25' SANITARY SEWER EASEMENT
- F 15' ELEC., GAS, TELE., & CA. T.V. EASEMENT
- G 5' WATER EASEMENT

OBJECT MARKER TYPE 4 (SEE THIS SHEET FOR DETAIL)



BEXAR COUNTY ROW NOTES:

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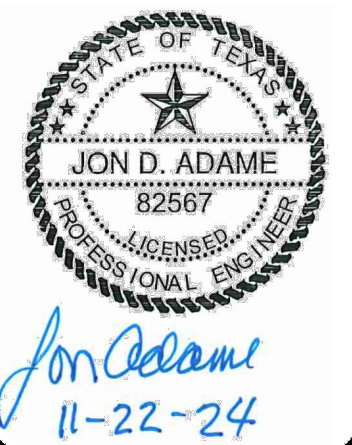
DRIVEWAY NOTE:

DRIVEWAYS SHOWN ON THIS PLAN ARE FOR THE SOLE PURPOSE OF INDICATING A POTENTIAL CONFLICT WITH CURB RAMP, DRAINAGE INFRASTRUCTURE, OR OTHER CONFLICT. DRIVEWAY LOCATION IS SUBJECT TO CHANGE BASED ON HOME SELECTION AND FINAL LOT DESIGN.

TRENCH EXCAVATION SAFETY PROTECTION:

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NO.	REVISION	DATE
1	SHEET CALLOUT REVISED & DEV SIDEWALK CALLOUT ADDED	11/22/24



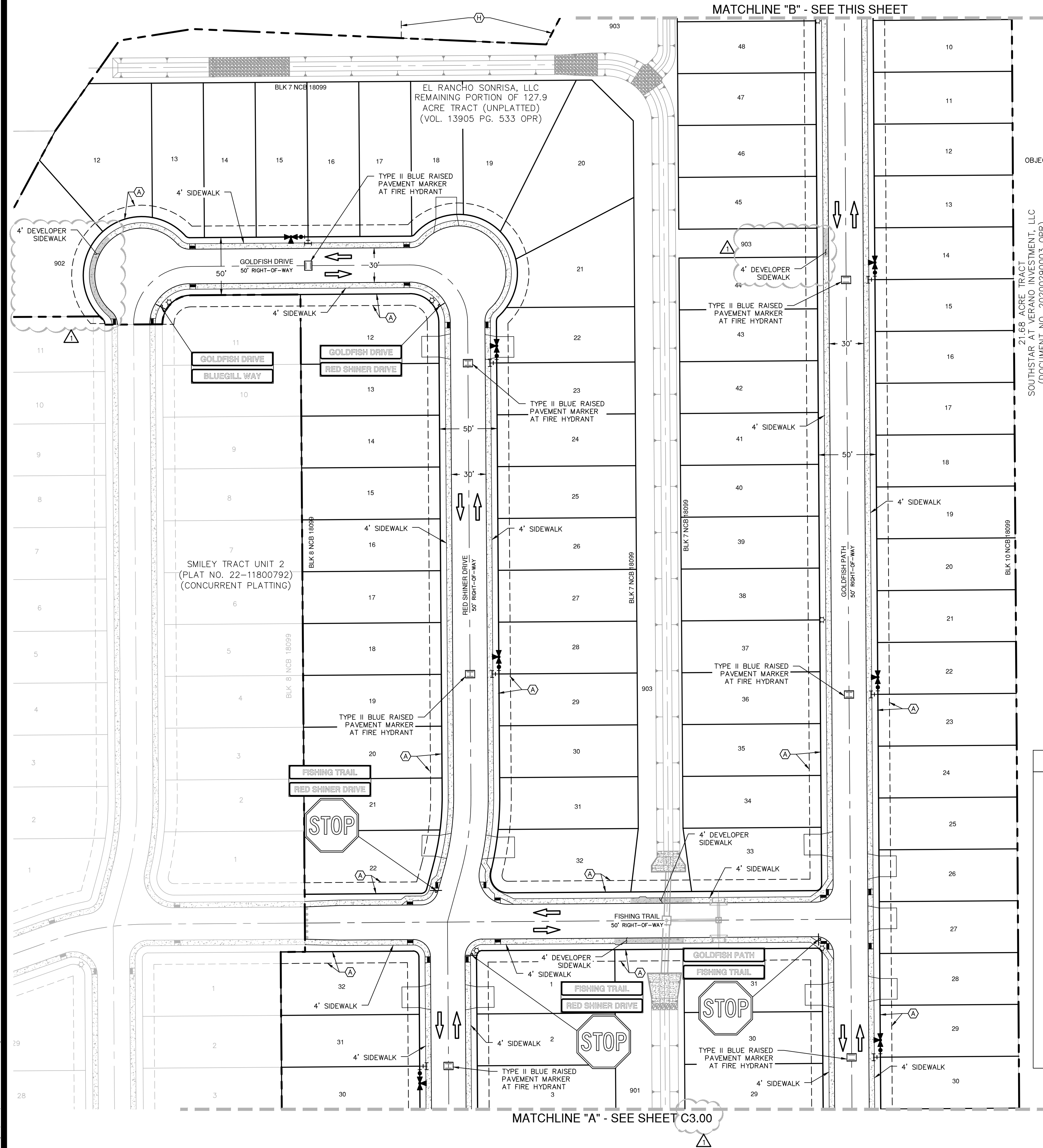
PAPE-DAWSON ENGINEERS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS
OVERALL SIGNAGE PLAN

PLAT NO.	24-11800067
JOB NO.	13316-03
DATE	JULY 2024
DRAWN	XX
CHECKED	XX
SHEET	C3.00

Date: Nov 22, 2024, 3:49pm User: jd_adame
File: P:\13316\03\Drawings\CH\3604-1331603.dwg



EL RANCHO SONRISA, LLC
REMAINING PORTION OF 127.9
ACRE TRACT (UNPLATTED)
(VOL. 13905 PG. 533 OPR)

BLK 7 NCB 18099

BLK 8 NCB 18099

BLK 9 NCB 18099

BLK 10 NCB 18099

BLK 11 NCB 18099

BLK 12 NCB 18099

BLK 13 NCB 18099

BLK 14 NCB 18099

BLK 15 NCB 18099

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BLK 47 NCB 18099

BLK 48 NCB 18099

SMILEY TRACT UNIT 2
(PLAT NO. 22-11800792)
(CONCURRENT PLATTING)

GOLDFISH DRIVE

RED SHINER DRIVE

FISHING TRAIL

4' DEVELOPER SIDEWALK

4' SIDEWALK

50' RIGHT-OF-WAY

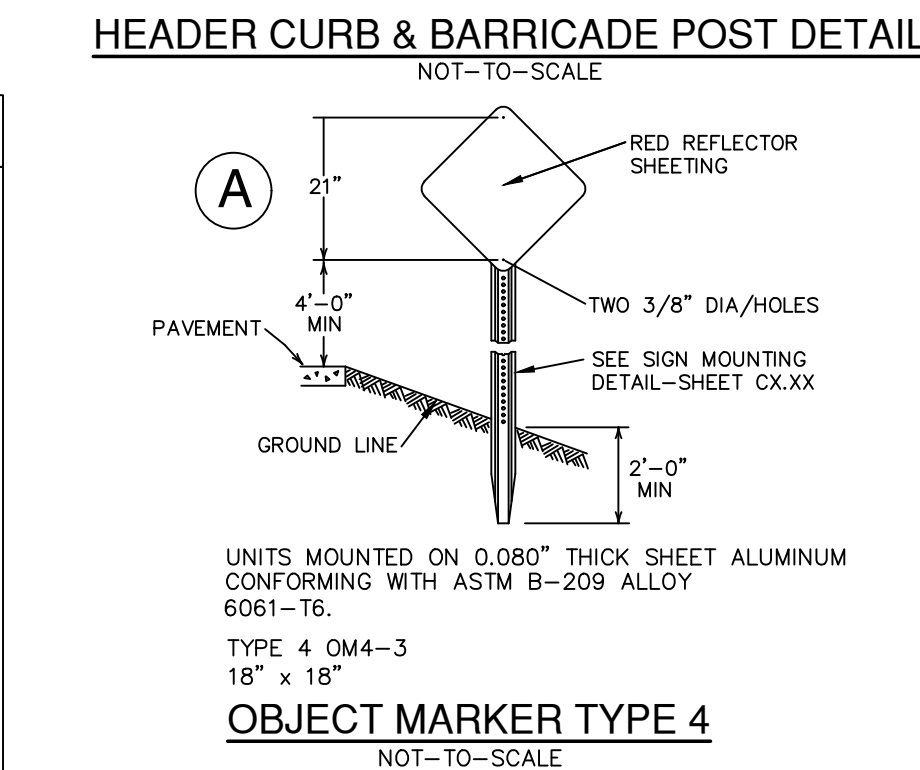
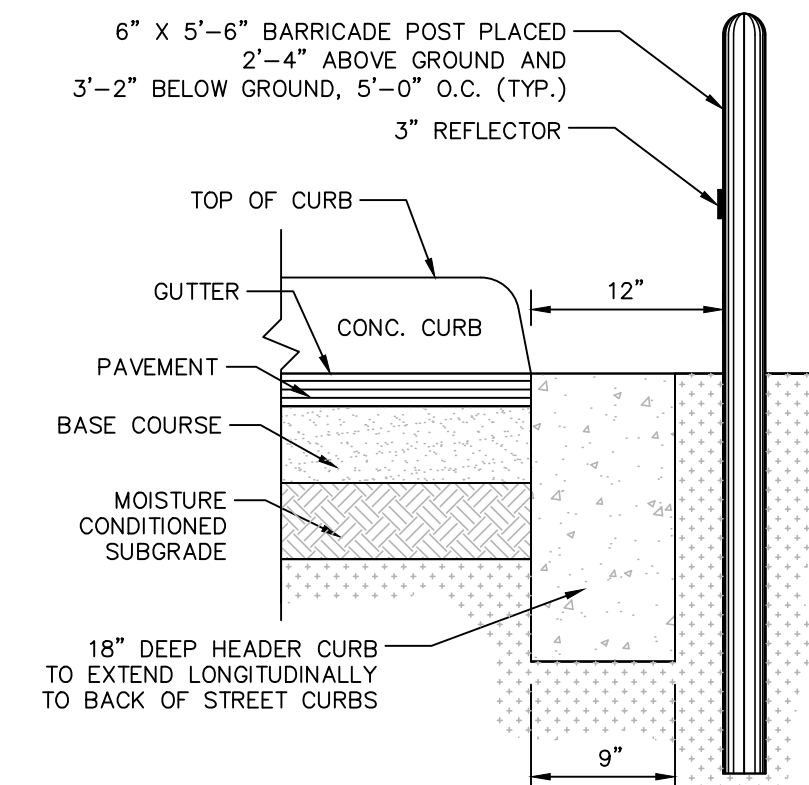
TYPE II BLUE RAISED PAVEMENT MARKER AT FIRE HYDRANT

STOP

MATCHLINE "A" - SEE SHEET C3.00

MATCHLINE "B" - SEE THIS SHEET

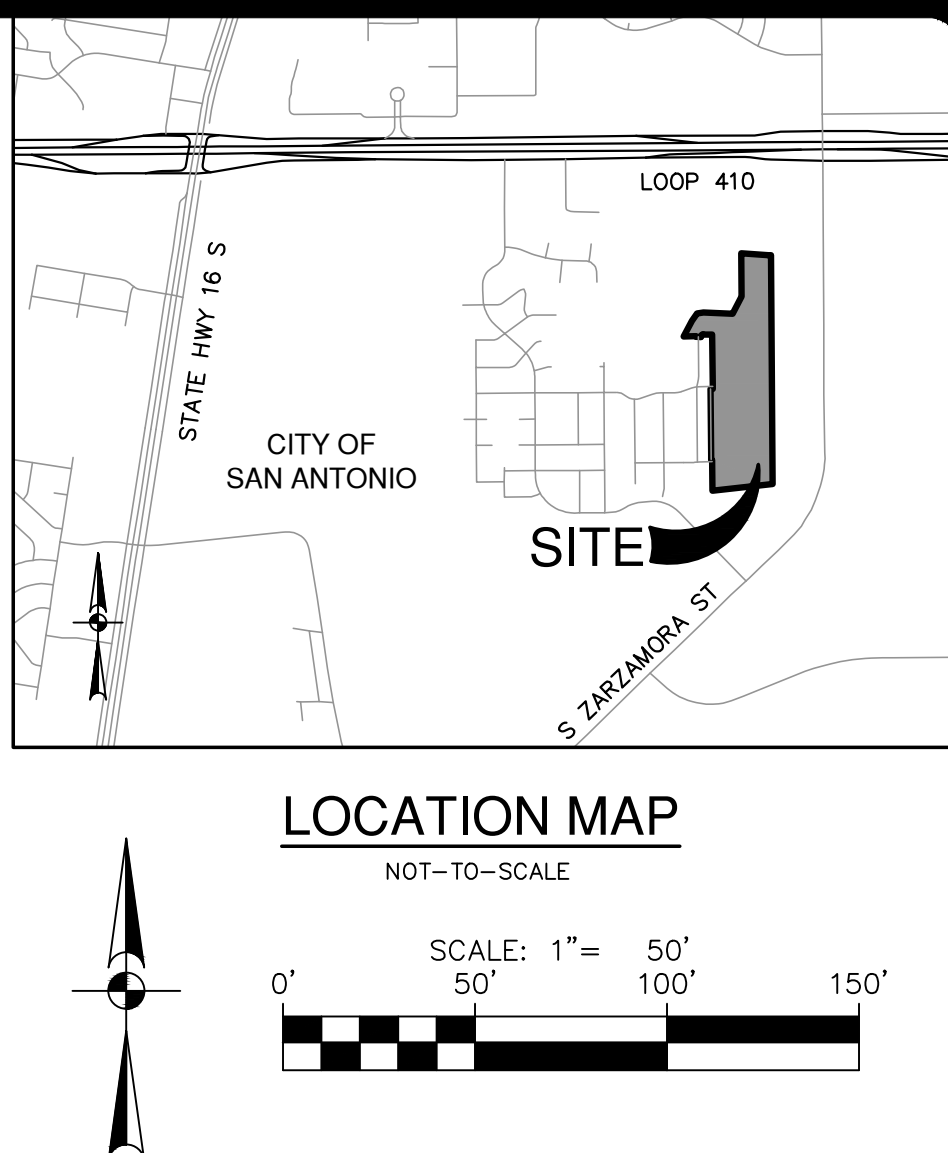
SYMBOL	ITEM NUMBER	SYMBOL	ITEM NUMBER
	UNIT BOUNDARY		W14-1T
	CURB INLET		W16-2aP
	PROPOSED DRIVEWAY		R1-1
	TRAFFIC FLOW ARROW		30"x30"
	SIDEWALK (HOMEBUILDER RESPONSIBILITY)		531.3
	SIDEWALK (SITEWORK CONTRACTOR RESPONSIBILITY)		531.57
	TYPE II BLUE RAISED PAVEMENT MARKERS - NO SEPARATE PAY ITEM (N.T.S.)		
	END OF ROAD MARKER OM4-3		
	HEADER CURB W/ BARRICADE POSTS		
	STREET SIGN		



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- KEY LEGEND**
- 10' ELEC., GAS, TELE., & CA. T.V. EASEMENT
 - VARIABLE WIDTH GRADING EASEMENT

NO.	REVISION	DATE
1	SHEET CALLOUT REVISED & DEV SIDEWALK CALLOUT ADDED	11/22/24

PAPE-DAWSON ENGINEERS

JON D. ADAME
82567
PROFESSIONAL ENGINEER

for Adame
11-22-24

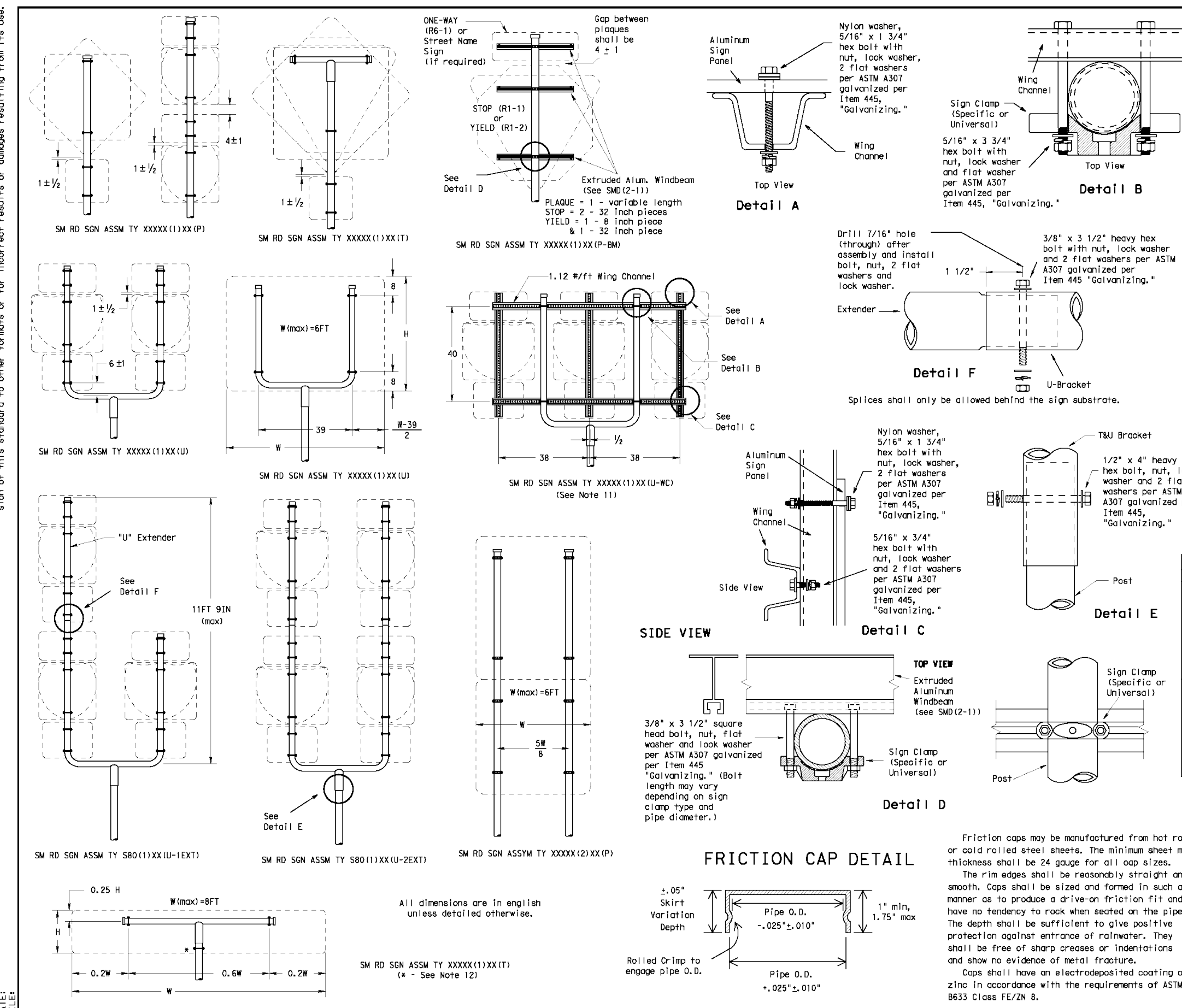
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028900

SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS
OVERALL SIGNAGE PLAN

PLAT NO.	24-11800067
JOB NO.	13316-03
DATE	JULY 2024
DRAWN	XX
CHECKED	XX
SHEET	C3.01

DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act." No warranty of any kind is made by the State of Texas or the Texas Department of Transportation for the accuracy or completeness of any information or data contained herein. It is the responsibility of the user to verify the accuracy and completeness of any information or data contained herein.

DATE: FILE:



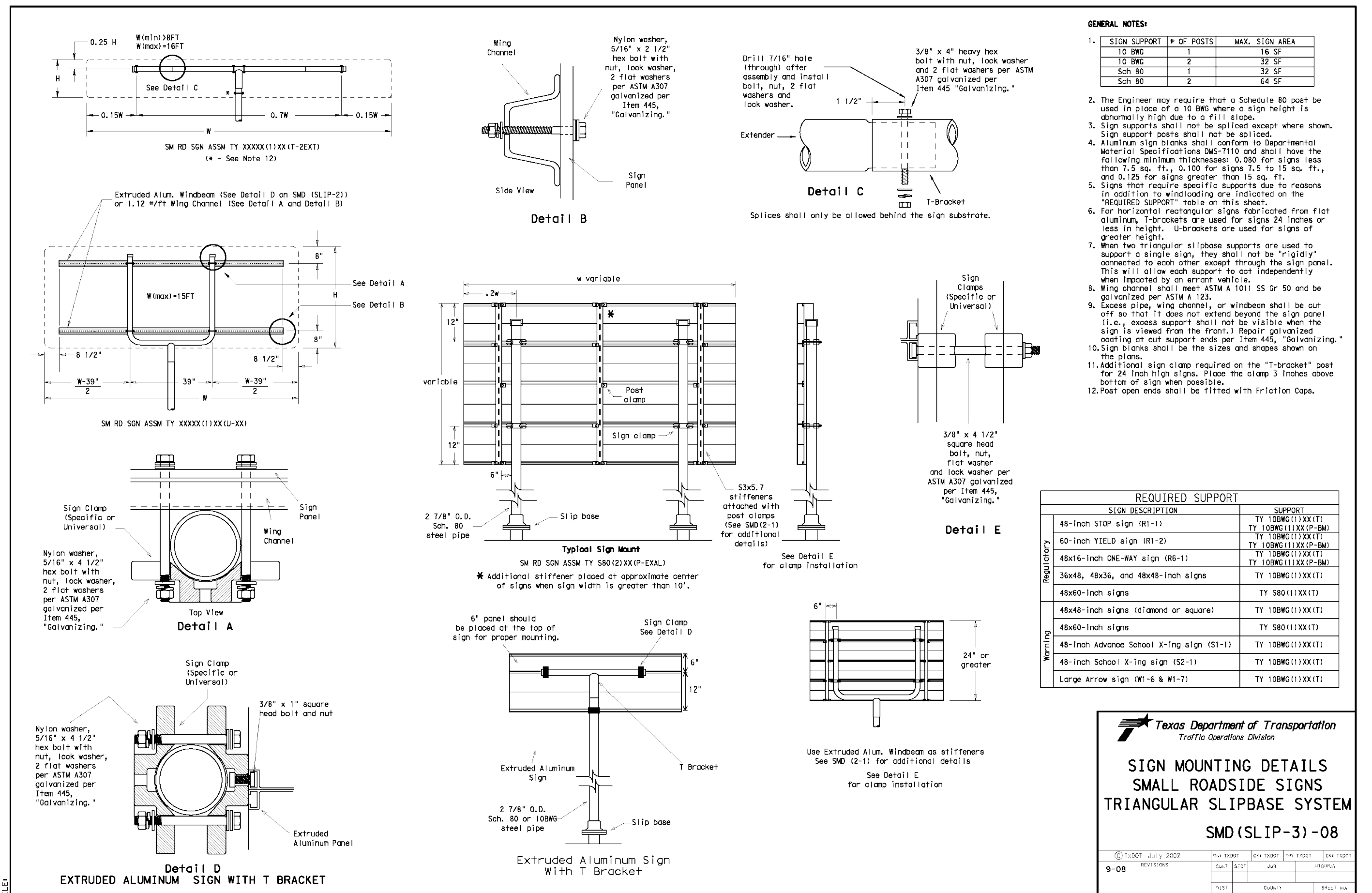
Texas Department of Transportation
Traffic Operations Division

SIGN MOUNTING DETAILS
SMALL ROADSIDE SIGNS
TRIANGULAR SLIPBASE SYSTEM
SMD (SLIP-2)-08

DATE	REVISION	BY	CHKD	APPD	DESCRIPTION
9-08	1	ADAWSON	ADAWSON	ADAWSON	INITIAL

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DATE: FILE:



Texas Department of Transportation
Traffic Operations Division

SIGN MOUNTING DETAILS
SMALL ROADSIDE SIGNS
TRIANGULAR SLIPBASE SYSTEM
SMD (SLIP-3)-08

DATE	REVISION	BY	CHKD	APPD	DESCRIPTION
9-08	1	ADAWSON	ADAWSON	ADAWSON	INITIAL

SIGN SUPPORT DESCRIPTIVE CODES
(Quantities listed correspond to project estimate and quantities listed)

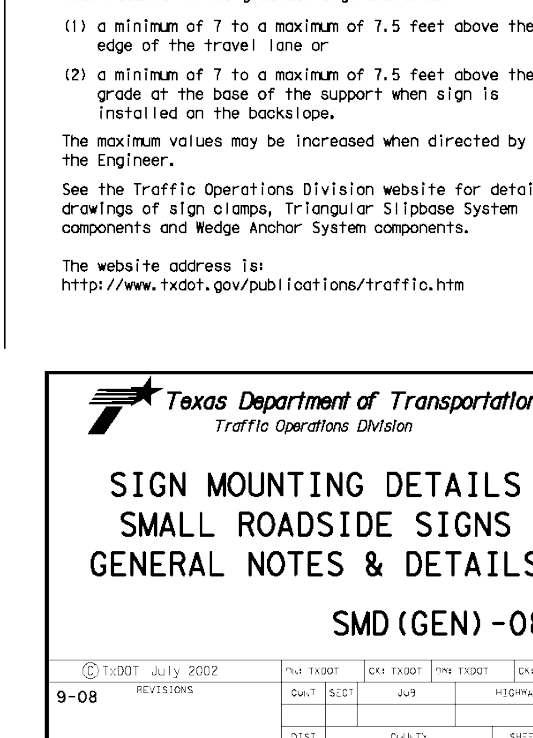
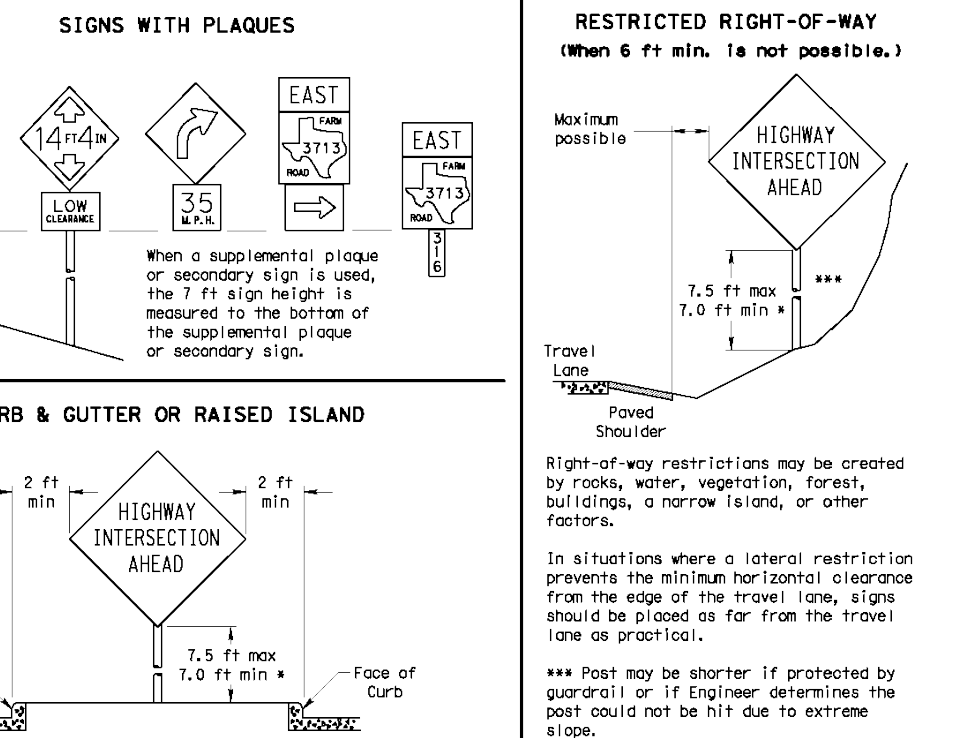
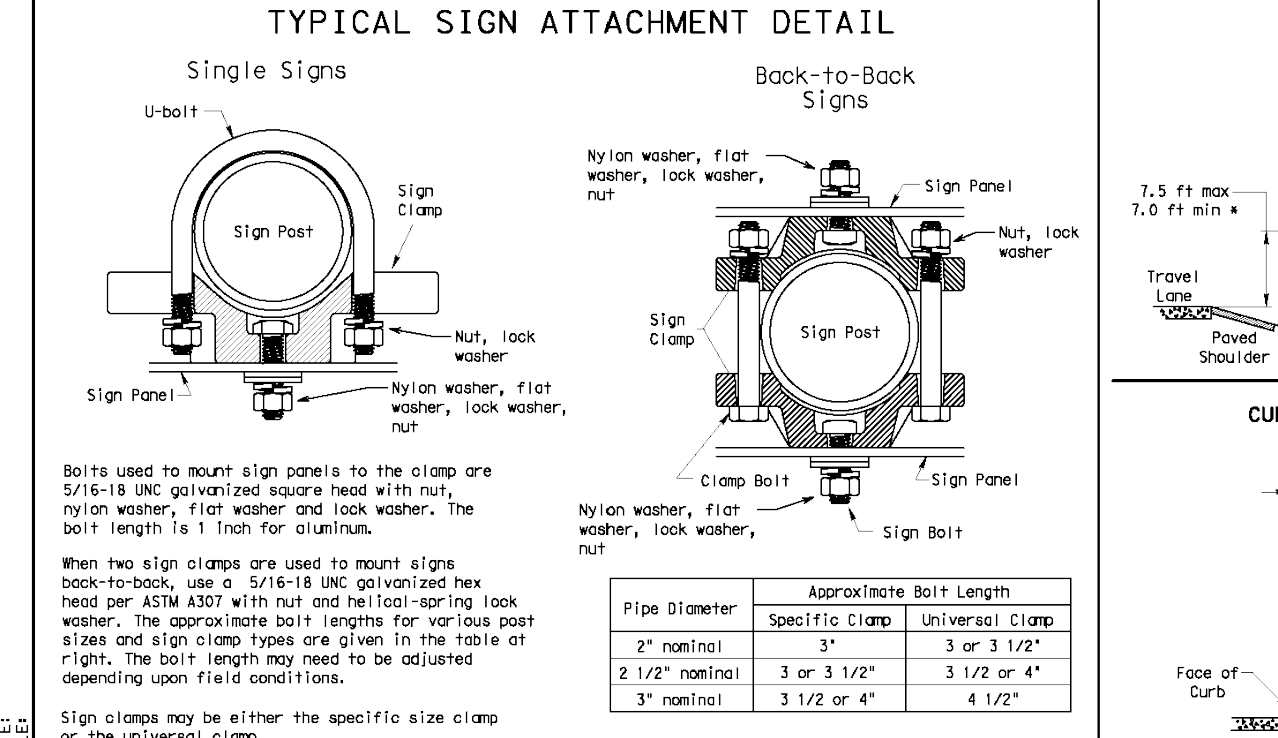
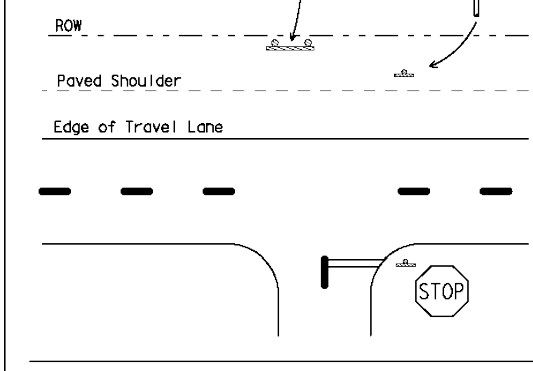
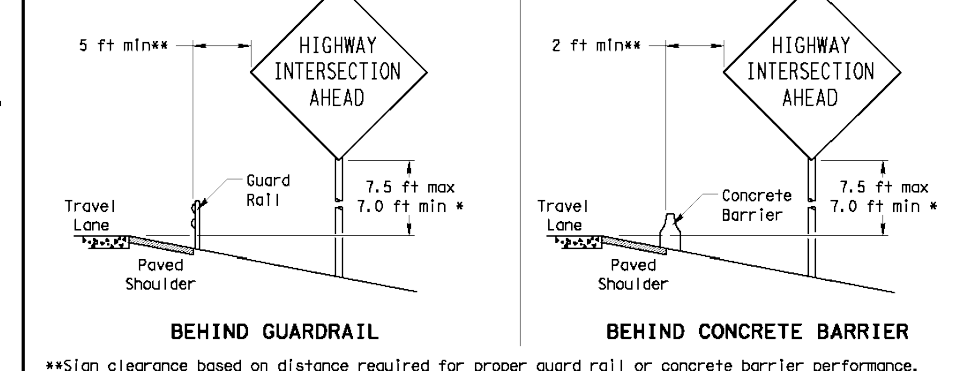
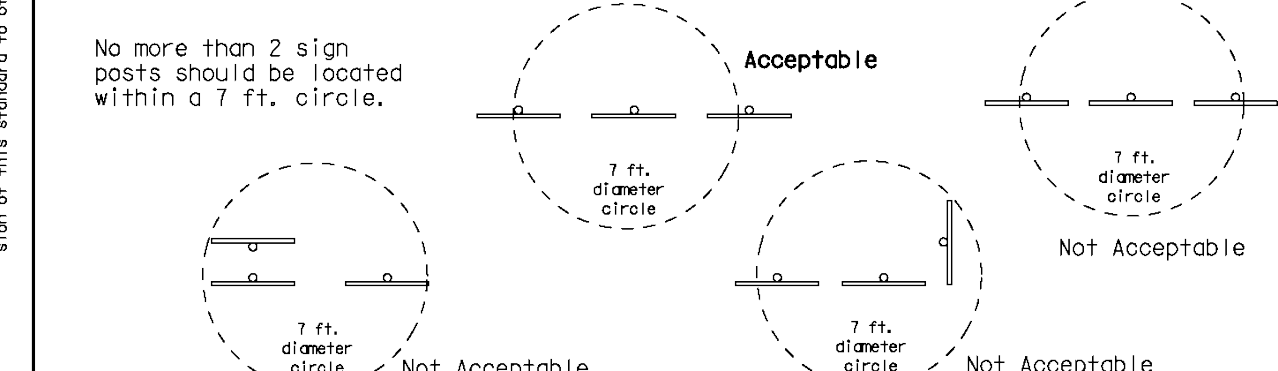
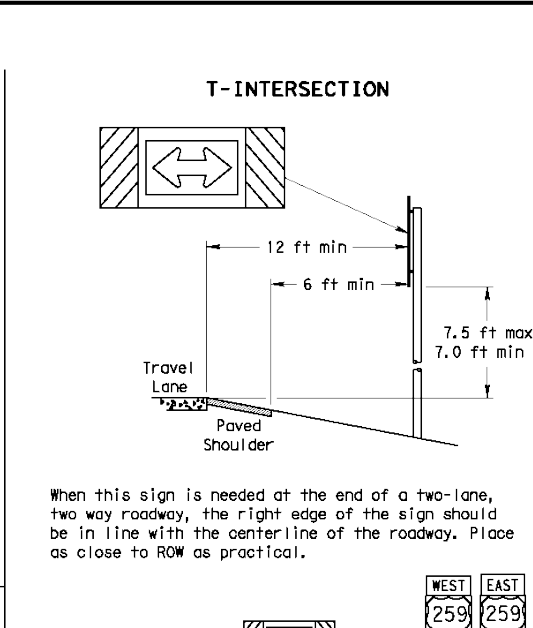
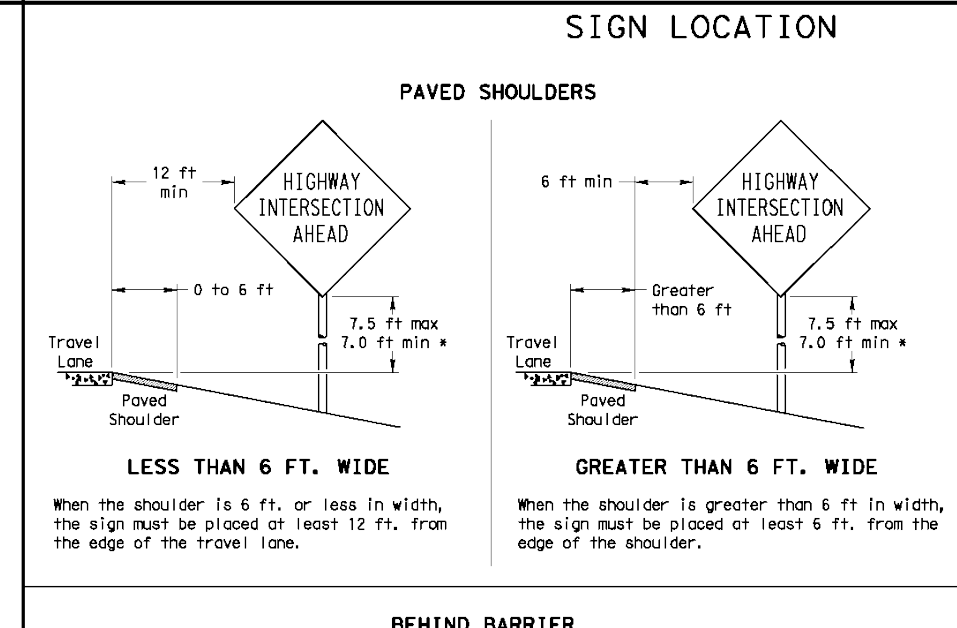
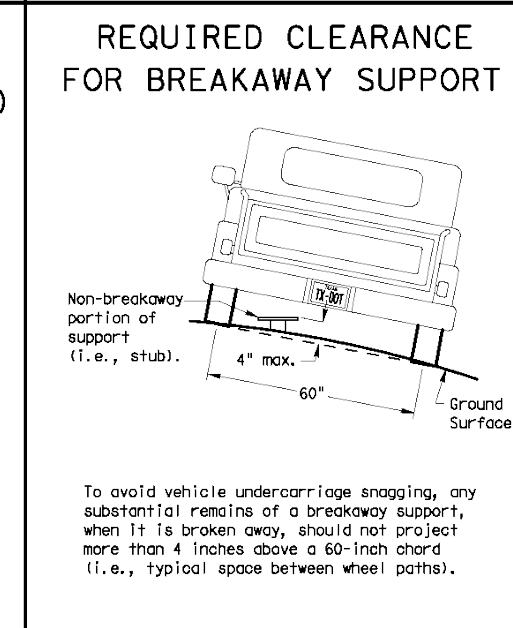
SM RD SGN ASSM TY XXXX(X)XX(X-XXXX)

Post Type
FPR = Fiberglass Reinforced Plastic Pipe (see SMD(FPR))
TWT = Thin-Walled Tubing (see SMD(TWT))
TOWB = 10 WOB Tubing (see SMD(SLIP-1) to (SLIP-3))
SRO = Schedule 80 Pipe (see SMD(SLIP-1) to (SLIP-3))

Number of Posts (1 or 2)

Anchor Type
UA = Universal Anchor - Casted (see SMD(FPR) and (TWT))
UB = Universal Anchor - Bolted (see SMD(FPR) and (TWT))
WB = Wedge Anchor Steel (see SMD(TWT))
WA = Wedge Anchor Plastic (see SMD(TWT))
SA = Sill Anchor - Casted (see SMD(SLIP-1) to (SLIP-3))
SB = Sill Anchor - Bolted (see SMD(SLIP-1) to (SLIP-3))
SL = Sill Anchor - Bolted (see SMD(SLIP-1) to (SLIP-3))
EXAL = Extruded Aluminum Sign Panels (see SMD(SLIP-1))

Sign Mounting Description
P = Pre-Assembled (see SMD(SLIP-1) to (SLIP-3), (TWT), (FPR))
T = Pre-Assembled (see SMD(SLIP-1) to (SLIP-3), (TWT))
U = Pre-Assembled (see SMD(SLIP-1) to (SLIP-3), (TWT))
S = Extruded Sign Panel (see SMD(SLIP-1) to (SLIP-3))
L = Extruded Sign Panel (see SMD(SLIP-1) to (SLIP-3))
W = 1/2" x 1/2" Wing Channel (see SMD(SLIP-1) to (SLIP-3))
EXAL = Extruded Aluminum Sign Panels (see SMD(SLIP-1))



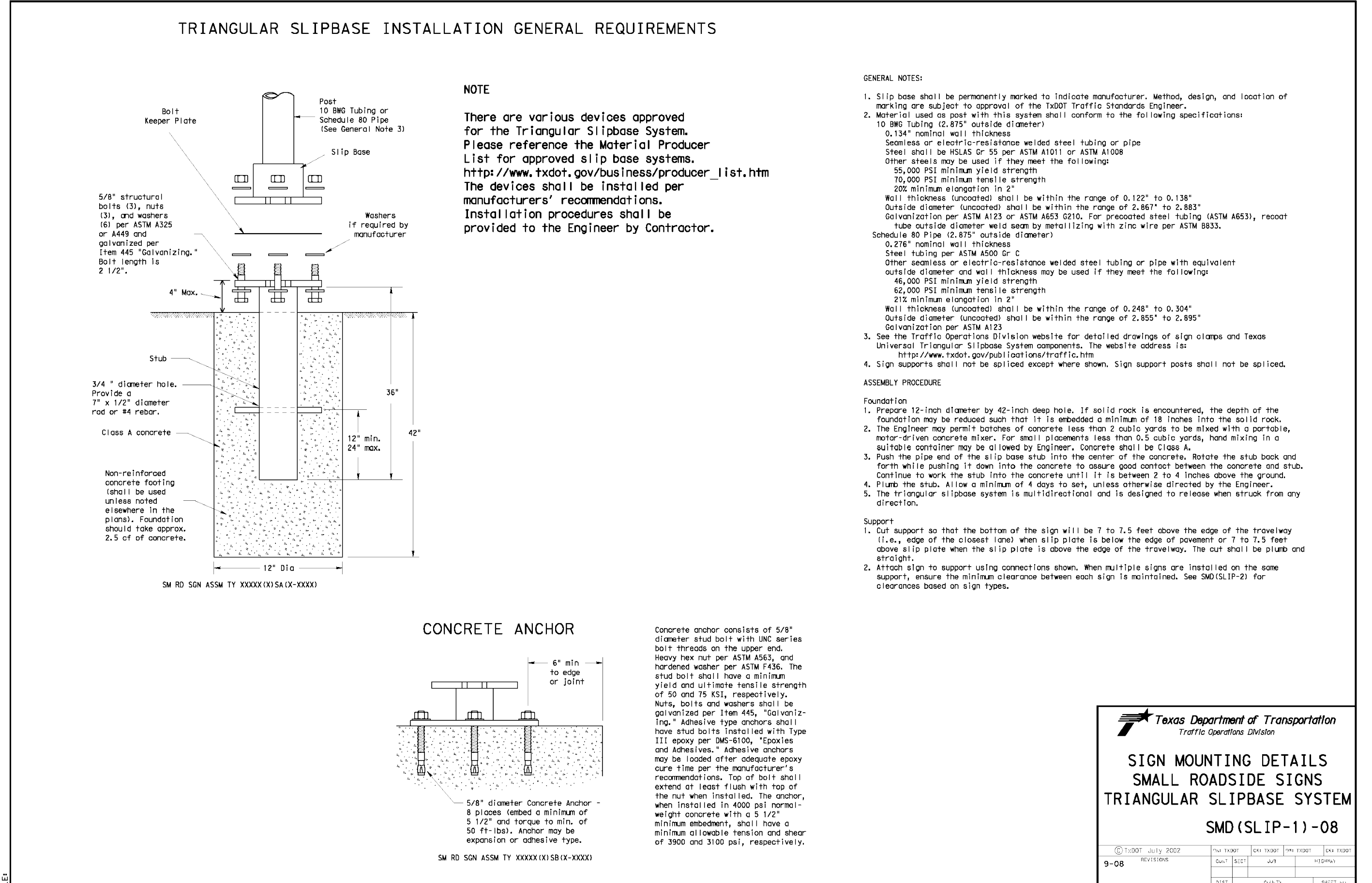
Texas Department of Transportation
Traffic Operations Division

SIGN MOUNTING DETAILS
SMALL ROADSIDE SIGNS
GENERAL NOTES & DETAILS
SMD (GEN)-08

DATE	REVISION	BY	CHKD	APPD	DESCRIPTION
9-08	1	ADAWSON	ADAWSON	ADAWSON	INITIAL

DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act." No warranty of any kind is made by the State of Texas or the Texas Department of Transportation for the accuracy or completeness of any information or data contained herein. It is the responsibility of the user to verify the accuracy and completeness of any information or data contained herein.

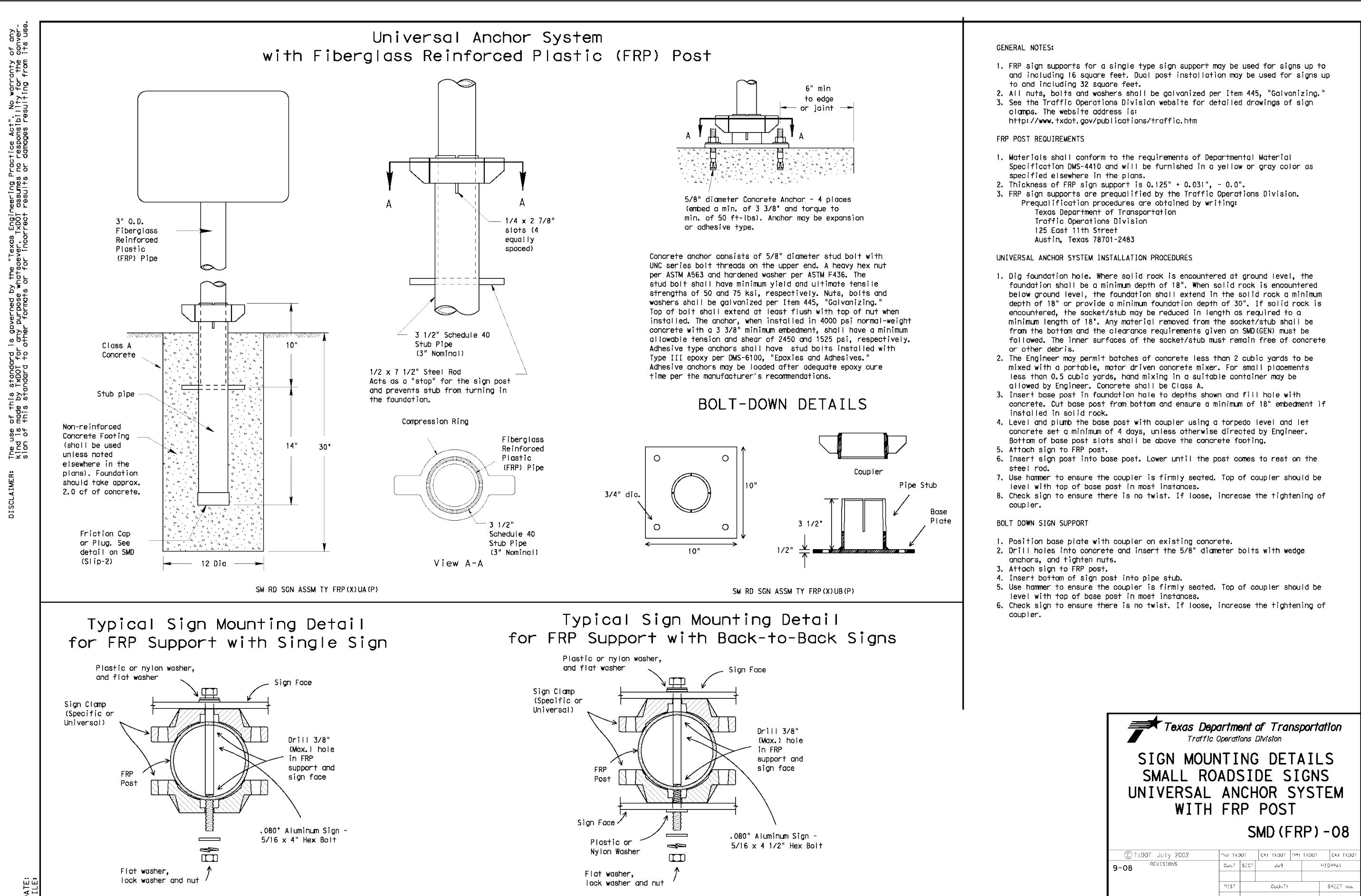
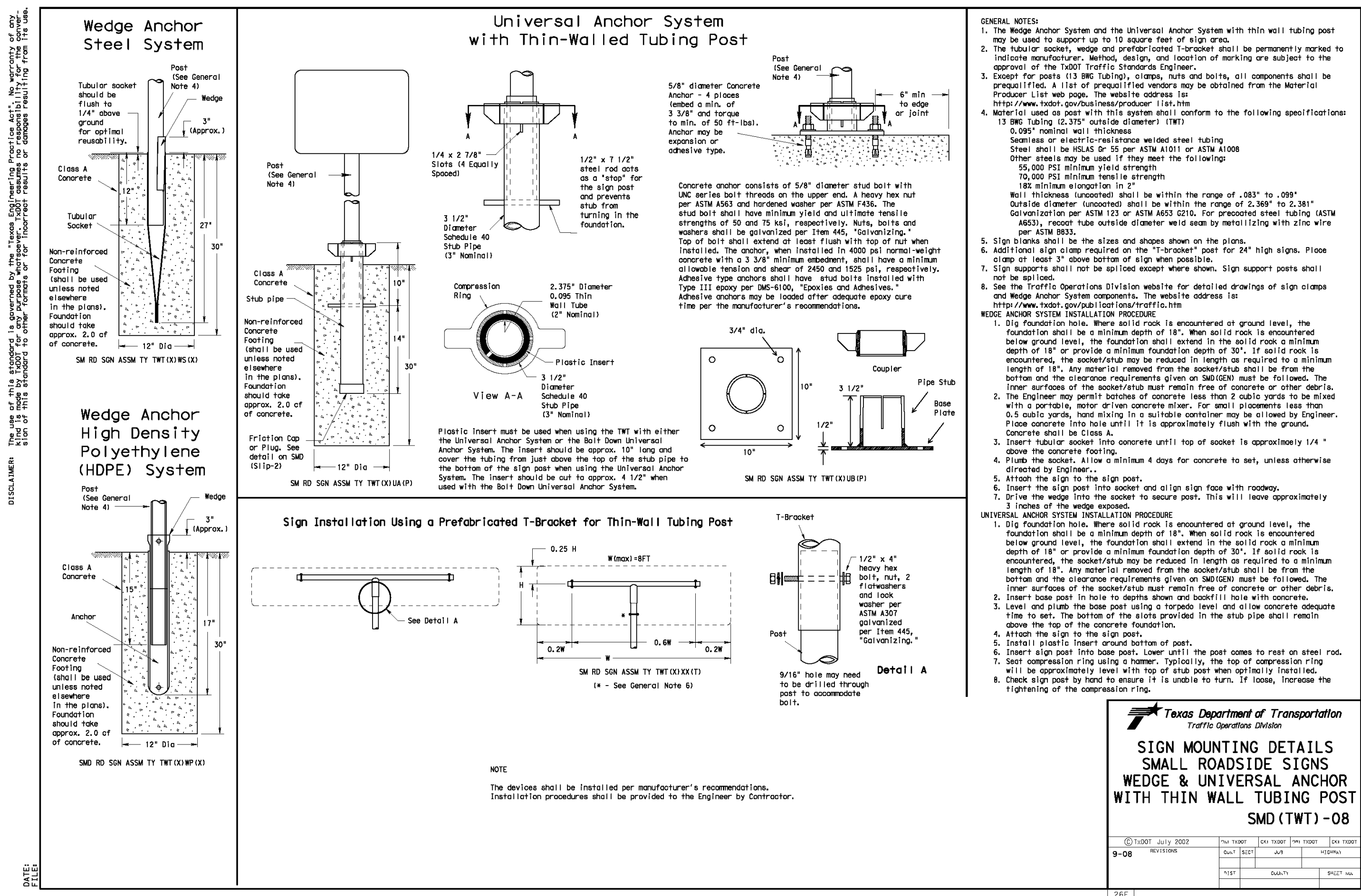
DATE: FILE:



Texas Department of Transportation
Traffic Operations Division

SIGN MOUNTING DETAILS
SMALL ROADSIDE SIGNS
TRIANGULAR SLIPBASE SYSTEM
SMD (SLIP-1)-08

DATE	REVISION	BY	CHKD	APPD	DESCRIPTION
9-08	1	ADAWSON	ADAWSON	ADAWSON	INITIAL

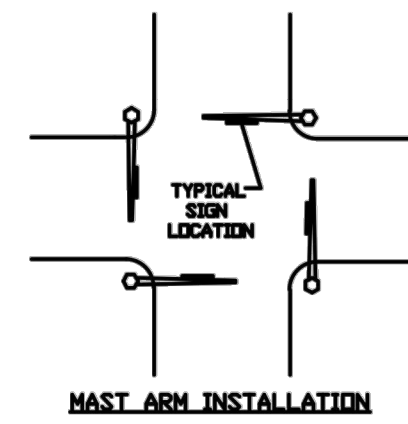




	18" OVERHEAD SIGN	9" GROUND MOUNT SIGNS
HEIGHT	18" (361 mm)	9" (228 mm)
LENGTH	48" (1200 mm) MIN. 72" (1800 mm) MAX. 1" (25mm) INCREMENTS OF LENGTH	24" (600 mm) MIN. 48" (1200 mm) MAX. 6" (150mm) INCREMENTS OF LENGTH
THICKNESS	0.125" (3 mm)	
SUBSTRATE	ALUMINUM ALLOY, 5052-H38 (ASTM B-209 GOLD CHROMATE FINISH	
SIGN FACE MATERIALS	BLUE FILM * OVER DIAMOND GRADE - ASTM Type XI Non-Fluorescent	BLUE FILM * OVER HIGH INTENSITY PRISMATIC- ASTM Type IV
LEGENDS AND SYMBOLS	SERIES D, B OR C IF NAME OTHERWISE EXCEEDS MAXIMUM SIGN LENGTH	
COLOR	WHITE LEGEND ON BLUE BACKGROUND	
LETTER TRACKING	17% (USUAL) 10% (MIN.)	10%

**TYPICAL
SIGN
LOCATION**

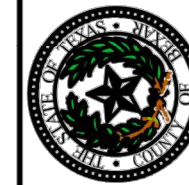
SPAN WIRE INSTALLATION



**SIGN FACE MATERIALS
SHALL CONFORM TO:**

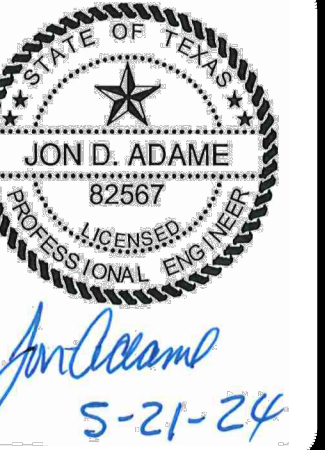
1. STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS & BRIDGES ON FEDERAL HIGHWAY PROJECTS - FP-03 U.S. CUSTOMARY UNITS SECTION 718
2. GENERAL SERVICES ADMINISTRATION FEDERAL SPECIFICATIONS L-S-300C
3. ASTM D 4956 - 09e1

Bexar County Public Works



Street Name Sign Details

DESIGN BY:	DRAWN BY:
CHECKED BY:	DATE:
FILE NO.:	
SHEET <u>1</u>	

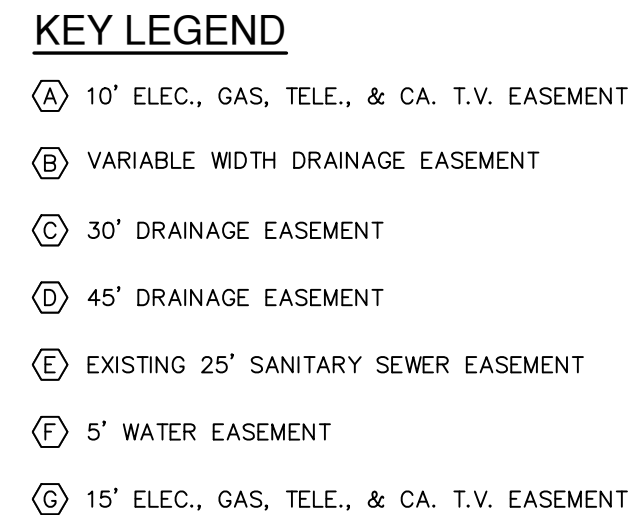
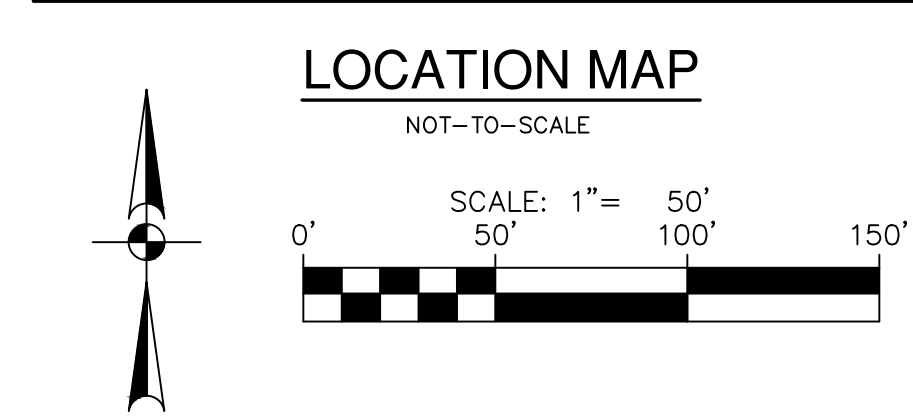
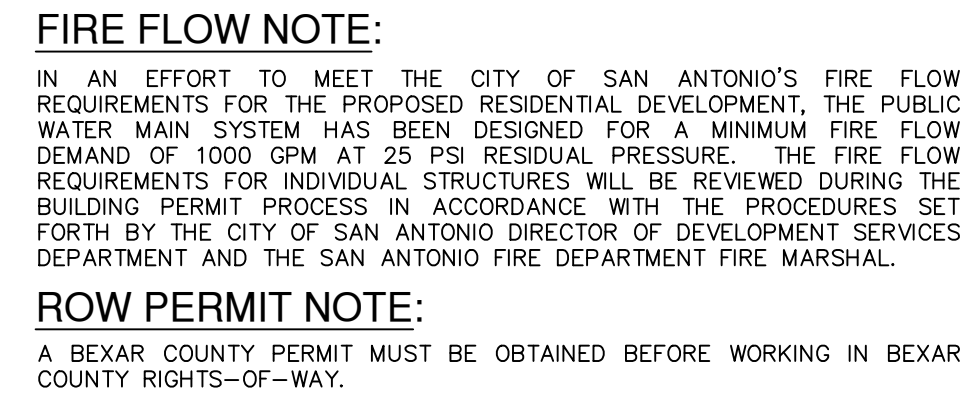
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TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS

SIGNAGE DETAILS SHEET 3 OF 3

LAT NO. 24-11800067
 OB NO. 13316-03
 DATE MAY 2024
 DESIGNER XX
 CHECKED XX DRAWN XX
 SHEET C3.12



PRESSURE REDUCING VALVE NOTE:

PRESSURE REDUCING VALVE TO BE INSTALLED ON CUSTOMER'S SIDE OF METER BY HOMEOWNER.

PRESSURE NOTE:

CONTRACTOR TO VERIFY THAT NO PORTION OF THE TRACT IS BEING DROPPED ELEVATION OF 605 FEET WHERE THE STATIC PRESSURE USUALLY NORMALLY EXCEEDS 80 PSI. AT ALL SUCH LOCATIONS WHERE THE GROUND ELEVATION IS BELOW 605 FEET, THE DEVELOPER OR BUILDER SHALL INSTALL AT LEAST ONE (1) 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 LOT(S) IF *PWR IS REQUIRED FOR SUCH LOT(S), ONLY SINGLE SERVICE CONNECTION SHALL BE ALLOWED.

NOTE: A PRESSURE REGULATOR IS ALSO KNOWN AS A PRESSURE REDUCING VALVE (PRV).

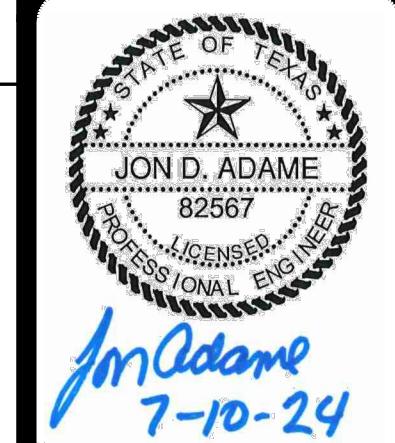
JOINT RESTRAINT NOTE:

CONTRACTOR SHALL INSTALL RETAINER GLANDS AT ALL FITTINGS TO PROVIDE JOINT RESTRAINING HARNESSSES OR FIELD LOCK GASKETS AT JOINTS WITHIN THE LENGTH SHOWN. CONTRACTOR SHALL INSURE THAT TEES, BENDS, VALVES, ETC. HAVE A MINIMUM OF 5 FT OF PIPE WITH JOINTS ON EACH SIDE OF THE FITTING. JOINT RESTRAINING AND RETAINING SHALL BE CALCULATED AS APPROVED PROGRAMS. THERE WILL BE NO SEPARATE PAY ITEM FOR RETAINER GLANDS AND OTHER RESTRAINING HARNESSSES AND GASKETS, BUT SHALL BE SUBSIDIARY TO UNIT COST PER LINEAL FOOT OF PIPE INSTALLED.

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEES OR SA CONSULTANT SHALL BE RESPONSIBLE FOR THE DESIGN OF SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOLOGICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS AND PROCEDURES. CONTRACTOR'S 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 TO EMPLOYEES AND INDEPENDENTLY RETAINED EMPLOYEES FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SA CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROTECTION SYSTEM WITH OSHA COMPLIANT SAFETY MEASURES REGARDING THE ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS. WATER (SAWS PRESSURE ZONE 790 HGL).

DEVELOPER'S NAME: EL RANCHO SONRISA, LLC
ADDRESS: 8626 JODHPUR
CITY: FAIR OAKS RANCH STATE: TEXAS ZIP: 78015
PHONE# (210) 381-9813 FAX#
14-6536, 14-6536, 14-6536 &
SAWS BLOCK MAP# 14-6539 TOTAL EDU'S 167 TOTAL ACREAGE 32.1
TOTAL LINEAR FOOTAGE OF PIPE# 5,395 LF PLAT NO. 24-1180006
NUMBER OF LOTS 163 SAWS JOB NO. 24-1032

[illegible]

**PAPE-DAWSON
ENGINEERS**
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028600

SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS
OVERALL WATER DISTRIBUTION PLAN

PLAT NO. 24-11800067
JOB NO. 13316-03
DATE JULY 2024
DESIGNER AS
CHECKED DRAWN AD
SHEET C4.00

Date: Jul 10, 2024, 8:23am User ID: asfky
File: P:\1316\1316\03\Design\DWG\WDT-1316603.dwg

SAWS CONSTRUCTION NOTES
(LAST REVISED JANUARY 2022)

SAWS GENERAL SECTION

1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE APPROVED BY THE SAN ANTONIO WATER SYSTEM (SAWS) AND COMPLY WITH THE PLANS, SPECIFICATIONS, GENERAL CONDITIONS AND WITH THE FOLLOWING AS APPLICABLE:
- A.CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) "DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEM" TEXAS ADMINISTRATIVE CODE (TAC) TITLE 30 PART 1 CHAPTER 217 AND "PUBLIC DRINKING WATER" TAC TITLE 30 PART 1 CHAPTER 290.
- B.CURRENT TXDOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND DRAINAGE".
- C.CURRENT "SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION".
- D.CURRENT CITY OF SAN ANTONIO "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION".
- E.CURRENT CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL" (UECM).
2. THE CONTRACTOR SHALL NOT PROCEED WITH ANY PIPE INSTALLATION WORK UNTIL THEY OBTAIN A COPY OF THE APPROVED COUNTER PERMIT OR GENERAL CONSTRUCTION PERMIT (GCP) FROM THE CONSULTANT AND HAS BEEN NOTIFIED BY SAWS CONSTRUCTION INSPECTION DIVISION TO PROCEED WITH THE WORK AND HAS ARRANGED A MEETING WITH THE INSPECTOR AND CONSULTANT FOR THE WORK REQUIREMENTS. WORK COMPLETED BY THE CONTRACTOR WITHOUT AN APPROVED COUNTER PERMIT AND/OR A GCP WILL BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE EXPENSE OF THE CONTRACTORS AND/OR THE DEVELOPER.
3. THE CONTRACTOR SHALL OBTAIN THE SAWS STANDARD DETAILS FROM THE SAWS WEBSITE, [HTTP://WWW.SAWS.ORG/BUSINESS_CENTER/SPECS](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 (210) 233-2973, ON NOTIFICATION PROCEDURES THAT WILL BE USED TO NOTIFY AFFECTED HOME RESIDENTS AND/OR PROPERTY OWNERS 48 HOURS PRIOR TO BEGINNING ANY WORK.
5. LOCATION AND DEPTH OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATIONS AND DEPTHS MUST BE FIELD VERIFIED BY THE CONTRACTOR AT LEAST 1 WEEK PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND TO PROTECT THEM DURING CONSTRUCTION AT NO COST TO SAWS.
6. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES AT LEAST 1-2 WEEKS PRIOR TO CONSTRUCTION WHETHER SHOWN ON PLANS OR NOT. PLEASE ALLOW UP TO 7 BUSINESS DAYS FOR LOCATES. REQUESTING MARKERS LOCATION MARKERS ON SAWS FACILITIES. THE FOLLOWING CONTACT INFORMATION ARE SUPPLIED FOR VERIFICATION PURPOSES:
- SAWS UTILITY LOCATES: [HTTP://WWW.SAWS.ORG/SERVICE/LOCATES](http://www.saws.org/service/locates)
 - COSA DRAINAGE (210) 207-0724 OR (210) 207-6026
 - COSA TRAFFIC SIGNAL OPERATIONS (210) 206-8480
 - COSA TRAFFIC SIGNAL DAMAGES (210) 207-3951
 - TEXAS STATE WIDE ONE CALL LOCATOR 1-800-545-6005 OR 811
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING FENCES, CURBS, STREETS, DRIVEWAYS, SIDEWALKS, LANDSCAPING AND STRUCTURES TO ITS ORIGINAL OR BETTER CONDITION IF DAMAGES ARE MADE AS A RESULT OF THE PROJECT'S CONSTRUCTION.
8. ALL WORK IN TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) AND/OR BEXAR COUNTY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE CONSTRUCTION SPECIFICATIONS AND PERMIT REQUIREMENTS.
9. THE CONTRACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO OR OTHER GOVERNING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.
10. THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN PERMIT.
- 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.
11. ANY AND ALL SAWS UTILITY WORK INSTALLED WITHOUT HOLIDAY/WEEKEND APPROVAL WILL BE SUBJECT TO BE UNCOVERED FOR PROPER INSPECTION.
12. COMPACTION NOTE (ITEM 804): THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING THE COMPACTION REQUIREMENTS ON ALL TRENCH BACKFILL AND FOR PAYING FOR THE TESTS PERFORMED BY A THIRD PARTY. COMPACTION TESTS WILL BE DONE AT ONE LOCATION POINT RANDOMLY SELECTED, OR AS INDICATED BY THE SAWS INSPECTOR AND/OR THE TEST ADMINISTRATOR, PER EACH 12-INCH LOOSE LIFT PER 400 LINEAR FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED AND FINALIZED BY SAWS WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY PROVIDING ALL NECESSARY DOCUMENTED TEST RESULTS.
13. A COPY OF ALL TESTING REPORTS SHALL BE FORWARDED TO SAWS CONSTRUCTION INSPECTION DIVISION.

SAWS WATER NOTES

1. PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT LEAST ONE WEEK IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS. THIS IS AT NO ADDITIONAL COST TO SAWS OR THE PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY.
- FOR WATER MAINS 12" OR HIGHER: SAWS EMERGENCY OPERATIONS CENTER (210) 233-2014
2. ASBESTOS CEMENT (AC) PIPE, ALSO KNOWN AS TRANSITE PIPE WHICH IS KNOWN TO CONTAIN ASBESTOS- CONTAINING MATERIAL (ACM), MAY BE LOCATED WITHIN THE PROJECT LIMITS. SPECIAL WASTE MANAGEMENT PROCEDURES AND HEALTH AND SAFETY REQUIREMENTS WILL BE APPLICABLE WHEN REMOVAL AND/OR DISTURBANCE OF THIS PIPE OCCURS. SUCH WORK IS TO BE MADE UNDER SPECIAL SPECIFICATION ITEM NO. 3000, "SPECIAL SPECIFICATION FOR HANDLING ASBESTOS CEMENT PIPE".
3. VALVE REMOVAL: WHERE THE CONTRACTOR IS TO ABANDON A WATER MAIN, THE CONTROL VALVE LOCATED ON THE ABANDONING BRANCH WILL BE REMOVED AND REPLACED WITH A CAP/PLUG. (NSP)
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 605 FEET WHERE THE STATIC PRESSURE WILL NORMALLY EXCEED 80 PSI. AT ALL SUCH LOCATIONS WHERE THE GROUND LEVEL IS BELOW 605 FEET, THE DEVELOPER OR BUILDER SHALL INSTALL AT EACH LOT, ON THE CUSTOMER'S SIDE OF THE METER, AN APPROVED TYPE PRESSURE REGULATOR IN CONFORMANCE WITH THE PLUMBING CODE OF THE CITY OF SAN ANTONIO. NO DUAL SERVICES ALLOWED FOR ANY LOT(S) IF *PRV IS/ARE REQUIRED FOR SUCH LOT(S), ONLY SINGLE SERVICE CONNECTIONS SHALL BE ALLOWED. *NOTE: A PRESSURE REGULATOR IS ALSO KNOWN AS A PRESSURE REDUCING VALVE (PRV).
7. PIPE DISINFECTION WITH DRY HTH FOR PROJECTS LESS THAN 800 LINEAR FEET. (ITEM NO. 847.3): MAINS SHALL BE DISINFECTED WITH DRY HTH WHERE SHOWN IN THE CONTRACT DOCUMENTS OR AS DIRECTED BY THE INSPECTOR, AND SHALL NOT EXCEED A TOTAL LENGTH OF 800 FEET THIS METHOD OF DISINFECTION WILL ALSO BE FOLLOWED FOR MAIN REPAIRS. THE CONTRACTOR SHALL UTILIZE ALL APPROPRIATE SAFETY MEASURE TO PROTECT HIS PERSONNEL DURING DISINFECTION OPERATIONS.
8. BACKFLOW PREVENTION DEVICES:
- ALL IRRIGATION SERVICES WITHIN RESIDENTIAL AREAS ARE REQUIRED TO HAVE BACKFLOW PREVENTION DEVICES.
 - ALL COMMERCIAL BACKFLOW PREVENTION DEVICES MUST BE APPROVED BY SAWS PRIOR TO INSTALLATION.
9. FINAL CONNECTION TO THE EXISTING WATER MAIN SHALL NOT BE MADE UNTIL THE WATER MAIN HAS BEEN PRESSURE TESTED, CHLORINATED, AND SAWS HAS RELEASED THE MAIN FOR TIE-IN AND USE.
10. DIVISION VALVES: DIVISION VALVES SHOWN ON PLANS OR NOT SHOWN ON PLANS BUT FOUND IN THE FIELD SHALL ONLY BE OPERATED BY SAWS DISTRIBUTION AND COLLECTION STAFF AND ONLY WITH PRIOR WRITTEN APPROVAL OF THE SAWS DIRECTOR OF PRODUCTION AND OPERATIONS AND PROPER COORDINATION WITH ALL SAWS DEPARTMENTS. CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE INSPECTOR A MINIMUM OF TWO WEEKS IN ADVANCE TO START THE COORDINATION PROCESS AND WILL BE INFORMED BY THE INSPECTOR WHEN THE DIVISION VALVE WILL BE OPERATED BY THE SAWS DISTRIBUTION AND COLLECTION STAFF. THE DIVISION VALVE CAN ONLY BE OPERATED BY SAWS DISTRIBUTION AND COLLECTION STAFF MEMBER NOT THE INSPECTOR OR THE CONTRACTOR. OPERATION OF A DIVISION VALVE WITHOUT THE EXPRESS PRIOR WRITTEN APPROVAL OF THE SAWS DISTRIBUTION AND COLLECTION STAFF WILL CONSTITUTE A MATERIAL BREACH OF ANY WRITTEN SAWS CONTRACT OR PERMIT IN ADDITION TO SUBJECTING THE CONTRACTOR TO LIABILITY FOR ANY AND ALL FINES, FEES, OR OTHER DAMAGES, DIRECT OR CONSEQUENTIAL, THAT MAY ARISE FROM OR BE CAUSED BY THE OPERATION OF THE VALVE WITHOUT PRIOR WRITTEN PERMISSION. PLEASE BE INFORMED THAT THE APPROVAL OF THE OPERATION OR OPENING OR CLOSING OF A DIVISION VALVE CAN TAKE SEVERAL WEEKS FOR APPROVAL. DIVISION VALVES WILL ALSO HAVE A VALVE LID LABELED DIVISION VALVE AND A LOCKING MECHANISM INSTALLED WITH A KEY. THE LOCK AND KEY MECHANISM WILL BE PAID FOR BY THE CONTRACTOR BUT WILL BE INSTALLED BY SAWS DISTRIBUTION AND COLLECTION STAFF.

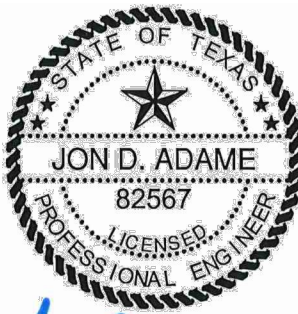
PROJECT WATER NOTES

1. MACHINE CHLORINATION BY THE S.A.W.S.
2. ALL 8", 12" AND 16" PIPE SHALL BE P.V.C. C-900 CLASS 235 DR 18.
3. ALL MAINS SHALL BE HYDROSTATICALLY TESTED BY THE CONTRACTOR, AS PROVIDED FOR IN THE SPECIAL CONDITIONS.
4. THE WATER LINES WILL BE SET FROM THE STREET HUBS BEFORE THIS CONTRACT BEGINS. STREET CUT SHEETS WILL BE SUPPLIED TO THE CONTRACTOR. THERE SHOULD BE NO ADDITIONAL STAKES REQUIRED, AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE SITE AND VERIFY THAT ALL STAKES REQUIRED FOR HIS WORK ARE IN PLACE AT THE TIME THE CONSTRUCTION BEGINS. IF ANY STAKES ARE MISSING THE ENGINEER SHOULD BE NOTIFIED IMMEDIATELY. AFTER CONSTRUCTION BEGINS, ALL CONSTRUCTION STAKES, MARKS, ETC., SHALL BE CAREFULLY PRESERVED BY THE CONTRACTOR, AND IN CASE OF DESTRUCTION OR REMOVAL BY THE CONTRACTOR, HIS EMPLOYEE OR ANY OTHER MEANS, SUCH STAKES, MARKS, ETC., SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
5. THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH ALL THE FINAL MEASUREMENTS, TAPS AND LENGTH OF SERVICE CONNECTIONS.
6. THE LOT CORNERS WILL BE SET BY THE ENGINEER FOR INSTALLATION OF ALL WATER SERVICES. THESE LOT CORNERS SHALL BE CAREFULLY PRESERVED BY THE CONTRACTOR SO THE METER BOXES CAN BE SET IN PHASE II. ANY LOT CORNER DESTROYED OR REMOVED BY THE CONTRACTOR, HIS EMPLOYEES, OR BY ANY OTHER MEANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
7. STREETS WILL HAVE BEEN EXCAVATED DOWN TO SUBGRADE AND THE PARKWAY WILL BE CUT DOWN TO TOP OF CURB BY THE STREET CONTRACTOR, PRIOR TO CONSTRUCTION OF THE WATER MAINS. IT WILL BE THE UTILITY CONTRACTOR'S RESPONSIBILITY TO PROVIDE A PAD FOR HIS EQUIPMENT.
8. WATER METER BOXES IF APPLICABLE SHALL BE INSTALLED NINE FEET FROM FACE OF CURB TO CENTER OF THE METER BOX.
9. ALL GARBAGE OR SPOIL MATERIAL FROM THIS WORK SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR, AT HIS EXPENSE.
10. FINAL CONNECTION TO THE EXISTING WATER MAIN SHALL NOT BE MADE UNTIL WATER MAIN HAS BEEN PRESSURE TESTED, CHLORINATED AND THE S.A.W.S. RELEASES THE MAIN FOR TIE-IN AND USE.
11. UNIT PRICE BID FOR "STANDARD FIRE HYDRANT ASSEMBLY" SHALL INCLUDE FIRE HYDRANT, 6-INCH GATE VALVE AND 6-INCH VALVE BOX COMPLETE, ANCHOR BEND, AND ALL 6-INCH DI PIPE REQUIRED (DI PIPE REQUIRED SHALL INCLUDE ALL PIPE FROM THE TEE ON THE MAIN LINE TO THE FIRE HYDRANT).
12. WHEN SEWER LINES ARE INSTALLED IN THE VICINITY OF WATER MAINS, SUCH INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE TEXAS NATURAL RESOURCE CONSERVATION COMMISSION "RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS" (1988 OR ANY REVISIONS THERETO).
13. A CLEAR SPACE SHALL BE PROVIDED AROUND ALL FIRE HYDRANTS. THIS AREA SHOULD HAVE A MINIMUM DIAMETER OF 3.0' AND BE CLEAN OF VERTICAL OBSTRUCTIONS, VALVES, AND METER BOXES.
14. SAWS REQUIRES LEAD FREE (< 0.25%) FIRE HYDRANTS.
15. UNLESS OTHERWISE NOTED ALL SERVICES SHALL BE 3/4" WITH 5/8" METER.

WATER (SAWS PRESSURE ZONE 790 HGL)

DEVELOPER'S NAME: EL RANCHO SONRISA, LLC			
ADDRESS: 8626 JODHPUR			
CITY: FAIR OAKS RANCH	STATE: TEXAS	ZIP: 78015	
PHONE# (210) 381-9813	FAX#		
14-6536, 14-6538, 14-6538, & SAWS BLOCK MAP#14-6538 TOTAL EDU'S .167 TOTAL ACREAGE .3214			
TOTAL LINEAR FOOTAGE OF PIPE: 8" 5,395 LF PLAT NO. 24-11800067			
NUMBER OF LOTS 163		SAWS JOB NO. 24-1032	

DATE	NO.	REVISION



Jon Adame
7-10-24

PAPE-DAWSON
ENGINEERS

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008800

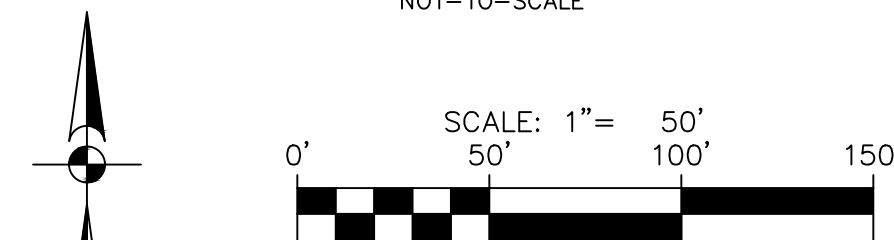
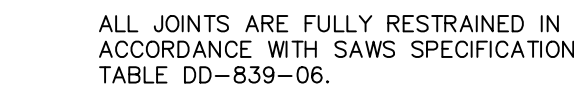
SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS

WATER DISTRIBUTION PLAN NOTES

PLAT NO.	24-11800067
JOB NO.	13316-03
DATE	JULY 2024
DESIGNER	AS
CHECKED	AS DRAWN AD
SHEET	C4.11



EL RANCHO SONRISA, LLC
REMAINING PORTION OF 127.9
ACRE TRACT (UNPLATTED)
(VOL. 13905 PG. 533 OPR)



PROJECT LIMITS

EXISTING WATER

EXISTING SEWER

PROPOSED SEWER

PROPOSED WATER

PROPOSED SEWER LATERAL

W

SS

SS

MANHOLE

FIRE HYDRANT

W

(A) 10' ELEC., GAS, TELE., & CA. T.V. EASEMENT

(H) VARIABLE WIDTH GRADING EASEMENT

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, 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 BE RESPONSIBLE TO OBTAIN A MINIMUM OF 14 DAYS NOTICE PRIOR TO START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

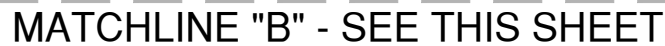
1. THE FINISHED FLOOR ELEVATIONS (FF) REPRESENT THE MINIMUM POSSIBLE FLOOR ELEVATION TO PROVIDE SANITARY SEWER SERVICE TO EACH LOT. ACTUAL FINISHED FLOOR ELEVATIONS FOR EACH LOT ARE TO BE DETERMINED BY THE BUILDER AND SHALL TAKE INTO CONSIDERATION AS-BUILT CONDITIONS FOR FOUND SEWER SERVICES AND ACTUAL LATERAL PLACEMENT. IT IS THE BUILDER'S SOLE RESPONSIBILITY TO DETERMINE ACTUAL FINISHED FLOOR ELEVATIONS FOR EACH LOT PRIOR TO THE START OF HOME FOUNDATION CONSTRUCTION TAKING INTO CONSIDERATION SITE DRAINAGE, STREET ACCESS AND SANITARY SEWER SERVICE ELEVATIONS.

2. THE MINIMUM SANITARY SEWER LATERAL GRADES WERE BASED UPON THE MINIMUM FINISHED FLOOR ELEVATIONS FOR THE LOTS LOCATED ON THE DOWNHILL SIDES OF THE PROPOSED ROADWAYS.

A BEXAR COUNTY PERMIT MUST BE OBTAINED BEFORE WORKING IN BEXAR COUNTY RIGHTS-OF-WAY.

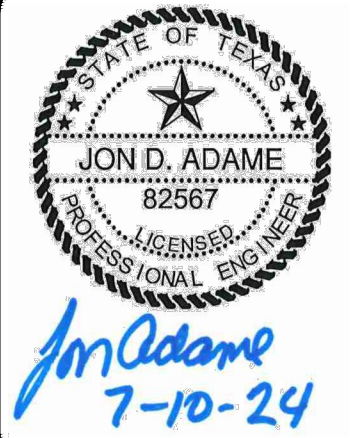
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION FOR THE PROJECT, WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION 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 BE FOR ADEQUATE PROTECTION OF THE TRENCH SAFETY PROTECTION THAT COMPLY WITH AS 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 THE FOLLOWING PRESCRIBED SAFETY PROTECTION ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

DEVELOPER'S NAME: EL RANCHO SONRISA, LLC
ADDRESS: 8626 JODHPUR
CITY: FAIR OAKS RANCH STATE: TEXAS ZIP: 78015
PHONE# (210) 381-9813 FAX# _____
14-6536, 14-6538, 14-8536, &
SAWS BLOCK MAP# 14-8538 TOTAL EDU'S 163 TOTAL ACREAGE 32.14
TOTAL LINEAR FOOTAGE OF PIPE: 8" 4,836 LF PLAT NO. 24-11800067
NUMBER OF LOTS 163 SAWS JOB NO. 24-1529



1.011 ACRE TRACT
RAKA KRISHNA ADDEPALLI, ET AL
(VOL. 13453, PG. 356 OPR)

21.68 ACRE TRACT
SOUTHSTAR AT VERANO INVESTMENT, LLC
(DOCUMENT NO. 20200290003 OPR)

[illegible]

**PAPE-DAWSON
ENGINEERS**
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

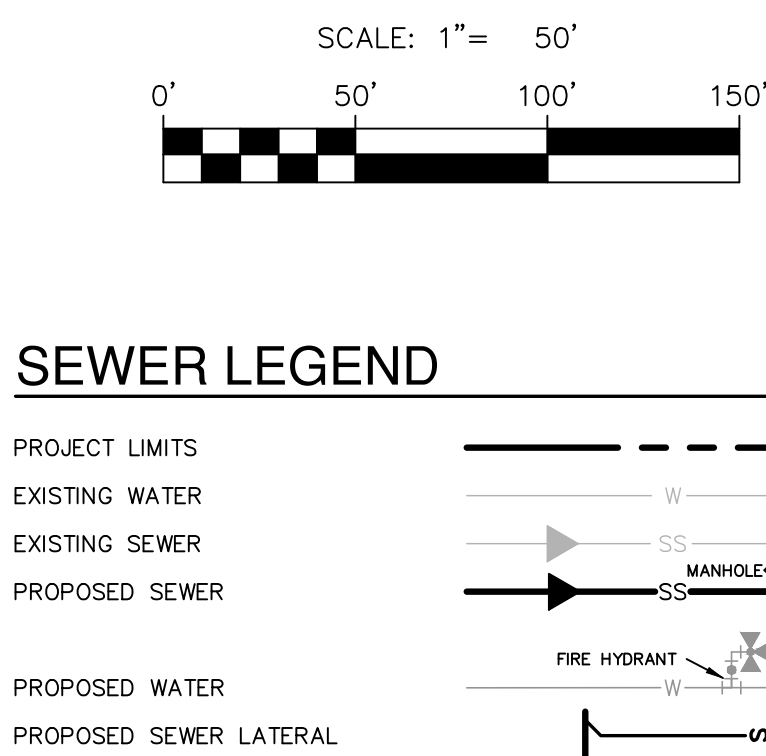
MILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS

OVERALL SANITARY SEWER PLAN

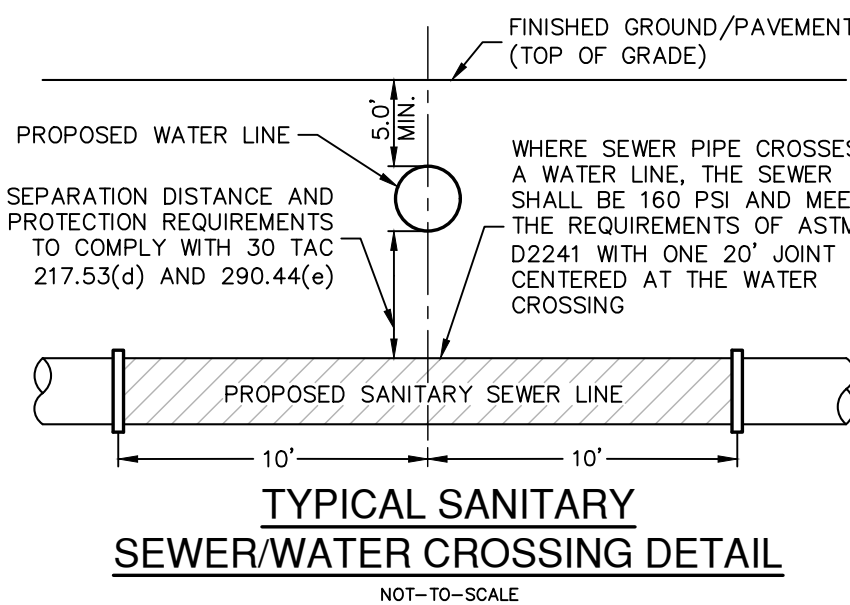
PLAT NO. 24-11800067
JOB NO. 13316-03
DATE JULY 2024
DESIGNER AS
CHECKED AS DRAWN AD
SHEET C5.01

Date: Jul 10, 2024, 8:23am User ID: aatry
File: P:\133\16\03\Design\Civil\SSOA-1331603.dwg

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



- (A) 10' ELEC., GAS, TELE., & CA. T.V. EASEMENT
- (B) VARIABLE WIDTH DRAINAGE EASEMENT
- (C) 30' DRAINAGE EASEMENT
- (E) 5' WATER EASEMENT
- (F) 15' ELEC., GAS, TELE., & CA. T.V. EASEMENT
- (G) EXISTING 25' SANITARY SEWER EASEMENT
(5,000 ACRE TRACT (TRACT 2) HILDA TRUCKING
COMPANY, LLC)



CAUTION!!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE, CABLE, FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRICAL, PRIVATE ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITIES LOCATED THAT ARE SHOWN TO BE DELETED OR DELETED BY THE CONTRACTOR 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 REPAIRED AT THE EXPENSE OF THE CONTRACTOR AND THE REPAIR SHALL BE MADE TO THE ORIGINAL CONDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN OR NOT.

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL DATA AND SHALL PREPARE A TRENCH EXCAVATION SAFETY PROTECTION WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL PREPARE AND SUBMIT TO THE AGENCY A TRENCH EXCAVATION SAFETY PROTECTION PLAN AND SHALL PREPARE AND FOLLOW THE PLAN AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARD 1926.650 THROUGH 1926.654. CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY/EQUIPMENT CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM FOR THE TRENCH EXCAVATION PROJECT. THE TRENCH SAFETY PROGRAM SHALL INCLUDE ALL INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

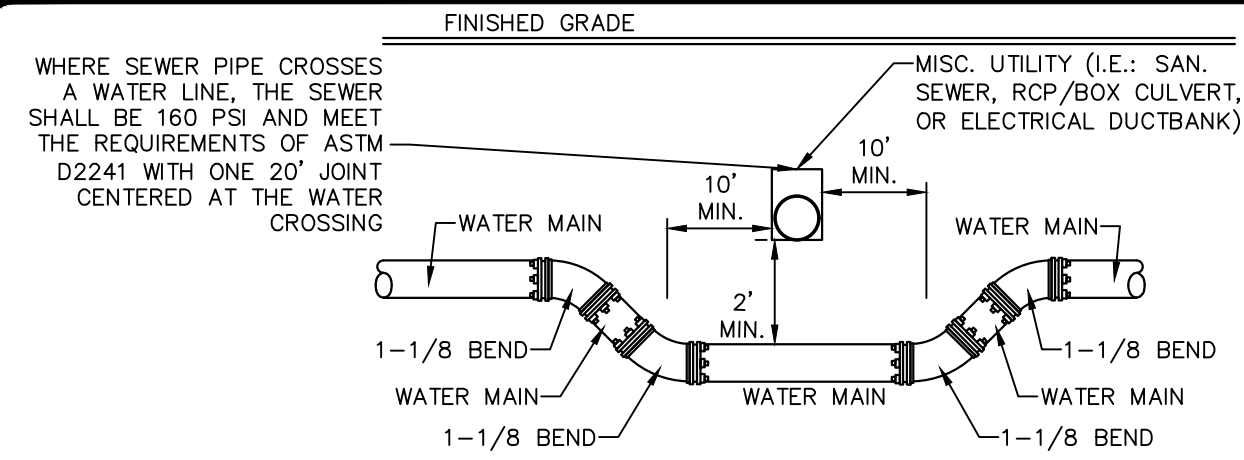
DEVELOPER'S NAME: EL RANCHO SONRISA, LLC
ADDRESS: 8626 JODHPUR
CITY: FAIR OAKS RANCH STATE: TEXAS ZIP: 78015
PHONE# (210) 381-9813 FAX# _____
14-6536, 14-6538, 14-8536, &
SAWS BLOCK MAP# 14-8538 TOTAL EDU'S 163 TOTAL ACREAGE 32.14
TOTAL LINEAR FOOTAGE OF PIPE: 8" 4,836 LF PLAT NO. 24-1180006
NUMBER OF LOTS 163 SAWS JOB NO. 24-1529



**PAPE-DAWSON
ENGINEERS**

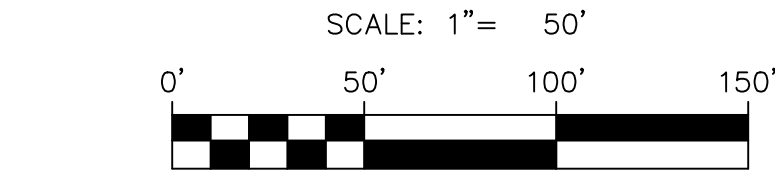
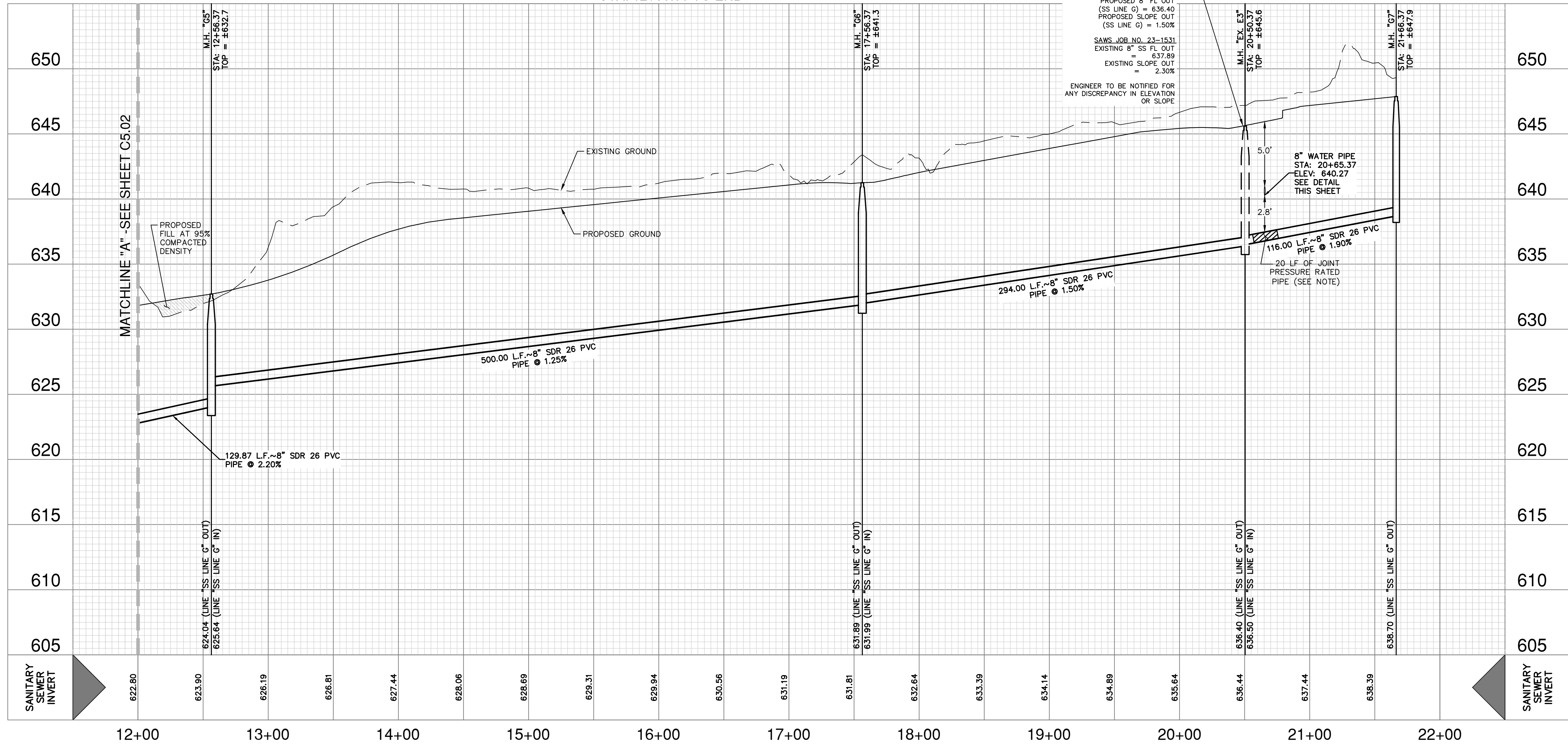
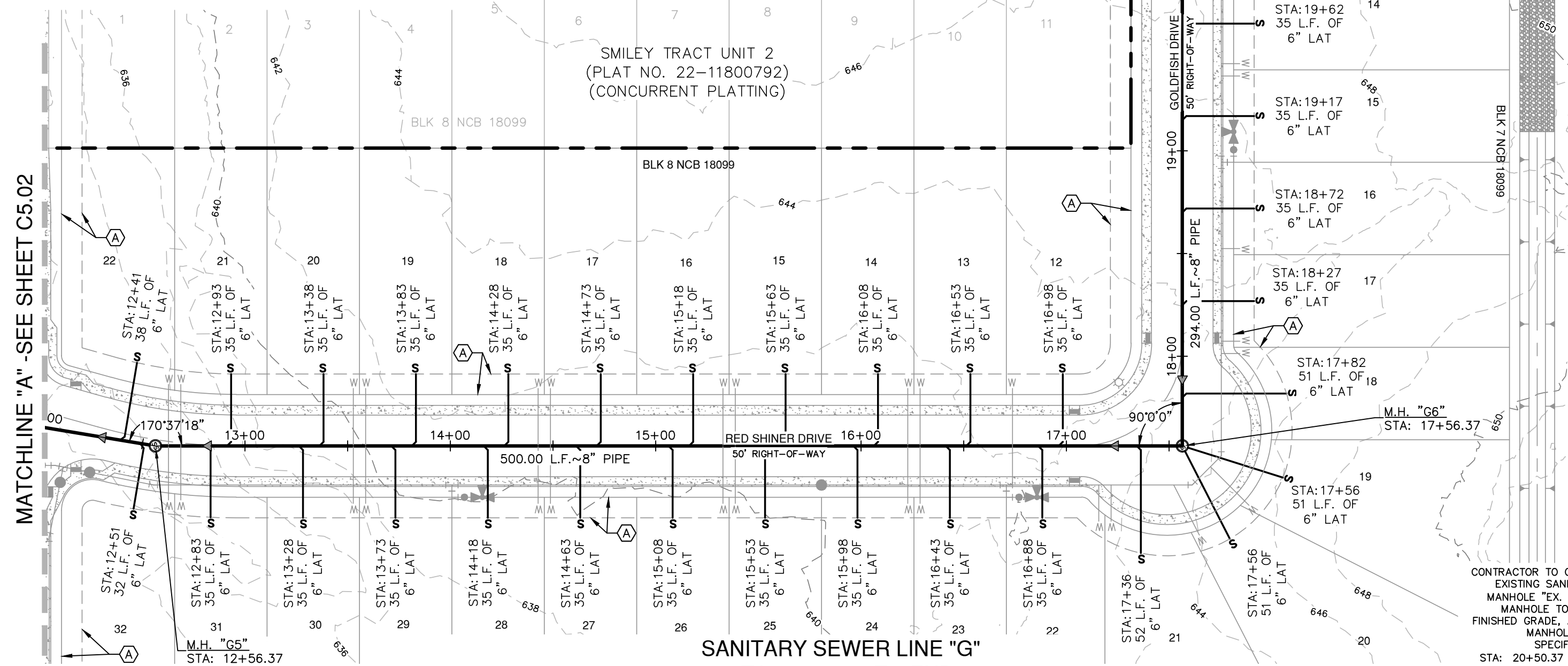
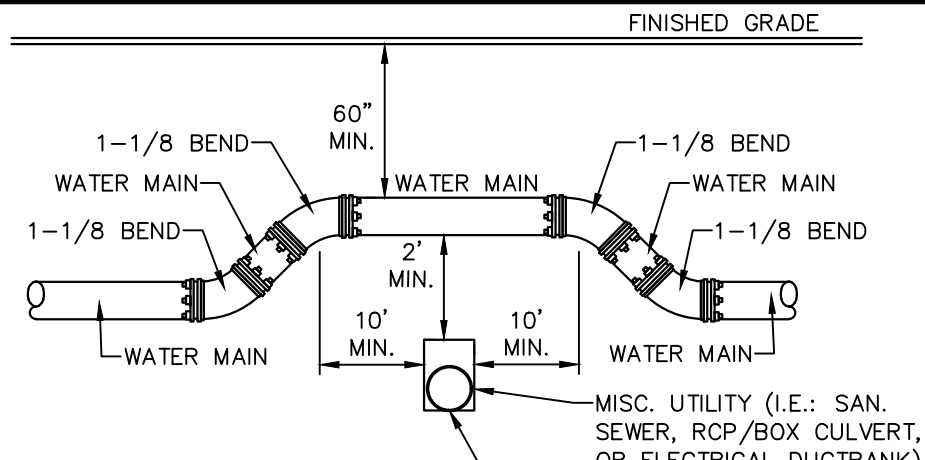
SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS

PLAT NO. 24-1180006
JOB NO. 13316-03
DATE JULY 2024
DESIGNER AS
CHECKED AS DRAWN AD
SHEET C5.02

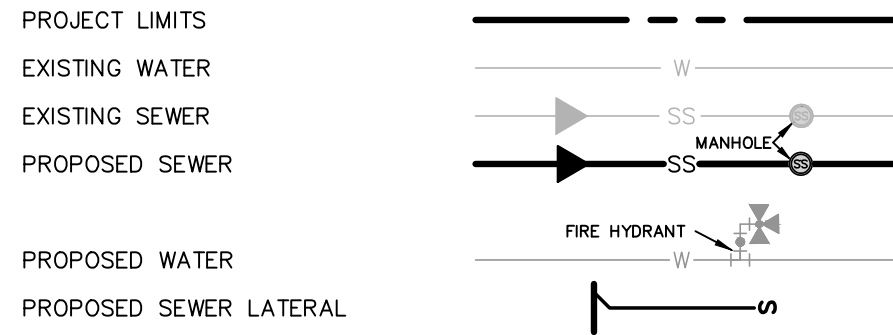


TYPICAL UTILITY/WATER CROSSING DETAIL

NOT-TO-SCALE

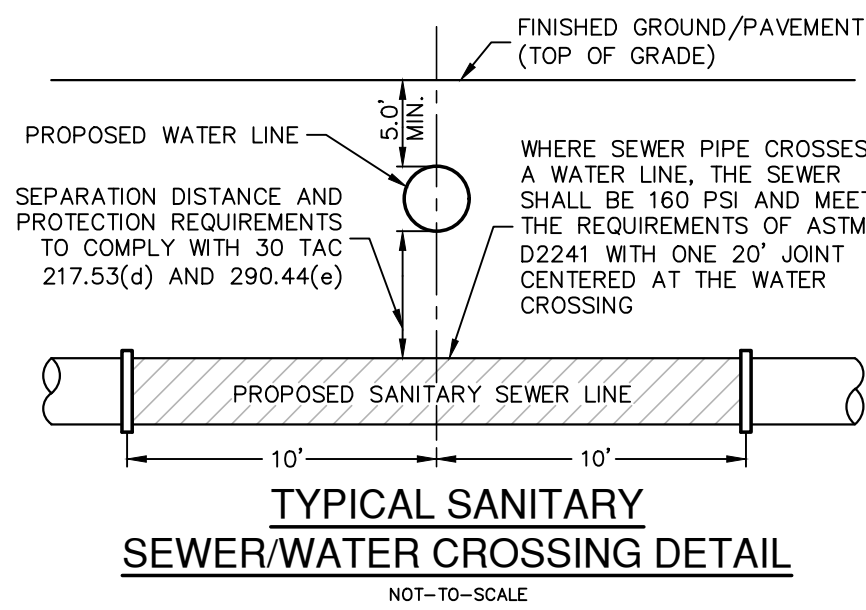


SEWER LEGEND



KEY LEGEND

(A) 10' ELEC., GAS, TELE., & CA. T.V. EASEMENT



CAUTION!!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

TRENCH EXCAVATION SAFETY PROTECTION:

CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

SEWER LOWER - WEST SEWERSHED - DOS RIOS/LEON CREEK

DEVELOPER'S NAME: EL RANCHO SONRISA, LLC

ADDRESS: 8626 JODHPUR

CITY: FAIR OAKS RANCH STATE: TEXAS ZIP: 78015

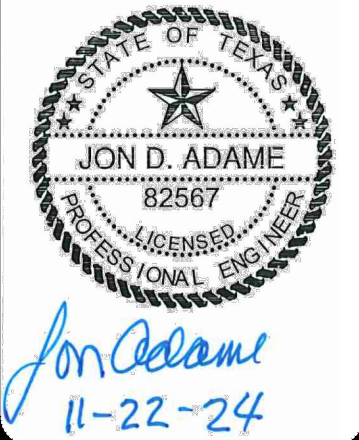
PHONE# (210) 381-9813 FAX#

14-6536, 14-6538, 14-6536 & SAWS BLOCK MAP# P24-075 TOTAL EDU'S: 2 TOTAL ACREAGE: 11.4

TOTAL LINEAR FOOTAGE OF PIPE: 8" 6,072 LF PLAT NO. N/A

NUMBER OF LOTS: N/A SAWS JOB NO. 24-1540

DATE	NO.	REVISION



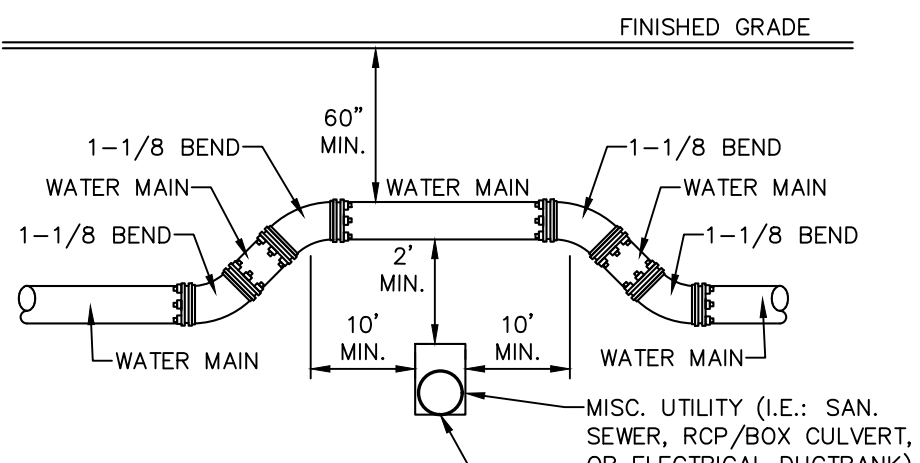
PAPE-DAWSON ENGINEERS

2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008800

SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS

SEWER LINE G ~ STA. 12+00.00 TO END
SANITARY SEWER PLAN & PROFILE

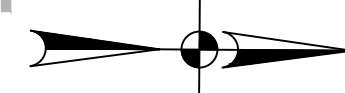
PLAT NO.	24-11800067
JOB NO.	13316-03
DATE	JULY 2024
DESIGNER	AS
CHECKED	AS DRAWN AD
SHEET	C5.03



NOT-TO-SCALE

ALL JOINTS ARE FULLY RESTRAINED IN ACCORDANCE WITH SAWS SPECIFICATION TABLE DD-839-06.

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



SCALE: 1" = 50'

A horizontal scale bar with four segments. The first segment (0' to 50') is divided into five equal parts, alternating black and white. The second segment (50' to 100') is solid black. The third segment (100' to 150') is solid white. The fourth segment (150' to 200') is solid black. Vertical tick marks are at 0', 50', 100', and 150'.

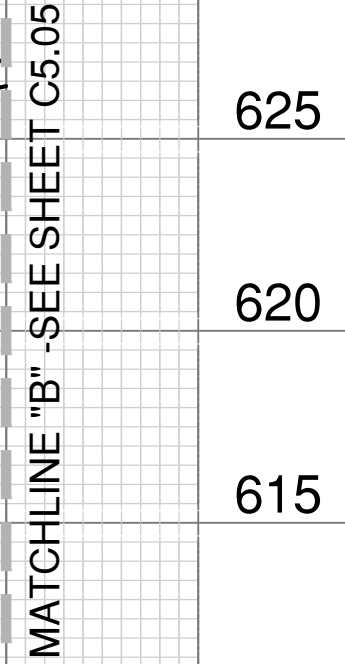
The diagram shows a water distribution network. A main horizontal line has a 'W' label above it. A branch line connects to the main line at a 'SS' (shut-off) point. This branch line has a 'MANHOLE' and another 'SS' point. A 'FIRE HYDRANT' is connected to the branch line. The main line continues to the right, ending in a 'W' label. A vertical line connects the main line to the fire hydrant.

☐ A 10' ELEC., GAS, TELE., & CA. T.V. EASEMENT

☐ D 45' DRAINAGE EASEMENT

☐ E 5' WATER EASEMENT

☐ F 15' ELEC., GAS, TELE., & CA. T.V. EASEMENT



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CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL/ GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE, WITHIN THE PROJECT AREA, TO DETERMINE THE ADEQUACY OF THE PROPOSED TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND THE 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 FOR ALL PERSONNEL WORKING IN OR AROUND THE TRENCH FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH THE REQUIREMENTS OF THE OSHA 1926.650-652, AND THE ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

DEVELOPER'S NAME: EL RANCHO SONRISA, LLC
ADDRESS: 8626 JODHPUR
CITY: FAIR OAKS RANCH STATE: TEXAS ZIP: 78015
PHONE# (210) 381-9813 FAX# 1-8556-14-8536
1-8556-14-8536 &
SAWS BLOCK MAP# 14-8536 TOTAL EDU'S 163 TOTAL ACREAGE 32.14
TOTAL LINEAR FOOTAGE OF PIPE: 8" 4.836 LF PLAT NO. 24-11800067
NUMBER OF LOTS 163 SAWS JOB NO. 24-1529

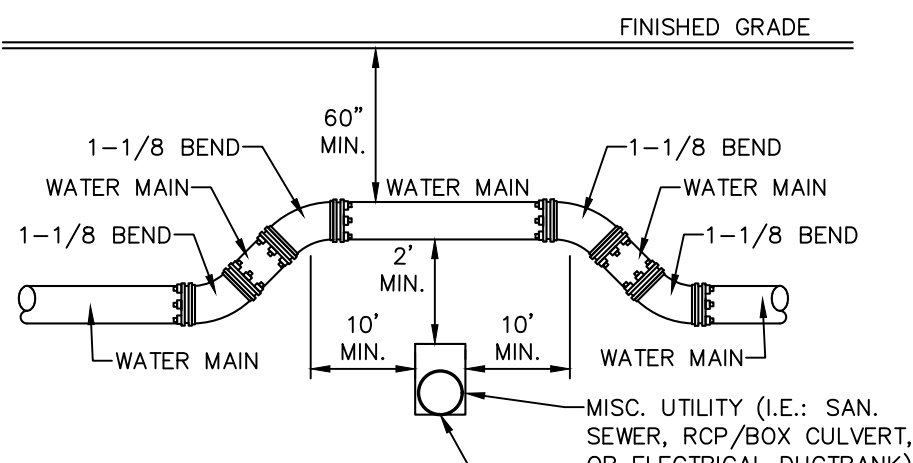
SEWER LINE H ~ STA. 1+00.00 TO 12+00.00
SANITARY SEWER PLAN & PROFILE

PLAT NO. 24-11800067
 JOB NO. 13316-03
 DATE JULY 2024
 DESIGNER AS
 CHECKED AS DRAWN AD
 SHEET **C5.04**



**PAPE-DAWSON
ENGINEERS**

0000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800



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

ALL JOINTS ARE FULLY RESTRAINED IN ACCORDANCE WITH SAWS SPECIFICATION TABLE DD-839-06.

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

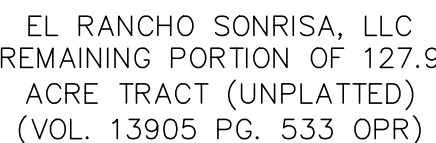


PROJECT LIMITS
EXISTING WATER
EXISTING SEWER
PROPOSED SEWER

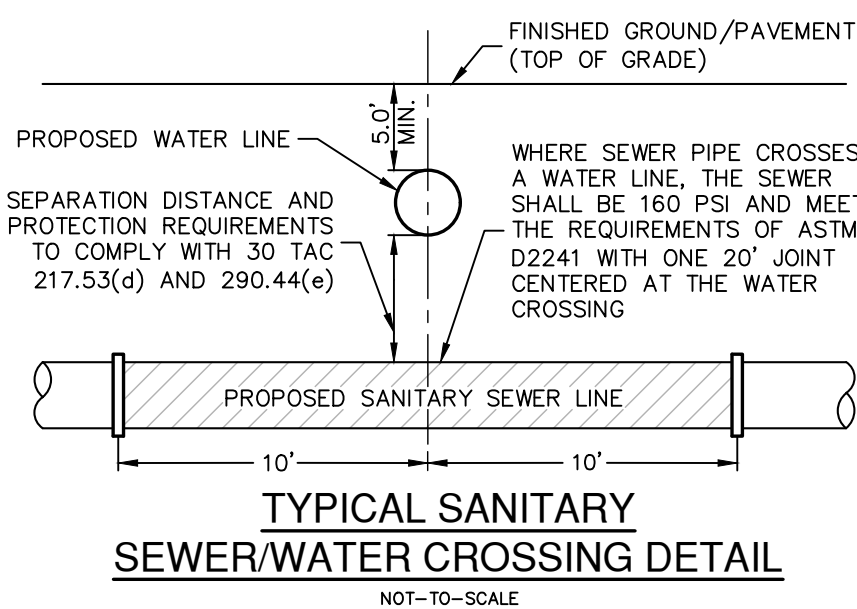
PROPOSED WATER
PROPOSED SEWER LATERAL

KEY LEGEND

A 10' ELEC., GAS, TELE., & CA. T.V. EASEMENT



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



CAUTION!!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, 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 AT A MINIMUM OF 48 HOURS PRIOR TO THE CONSTRUCTION OF ANY UTILITY. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL/ GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE, WITHIN THE PROJECT AREA, TO DETERMINE THE ADEQUACY OF THE PROPOSED TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND THE 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 SYSTEMS, PROGRAMS AND PROCEDURES FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH THE REQUIREMENTS OF THE OSHA 29 CFR 1926.650, ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

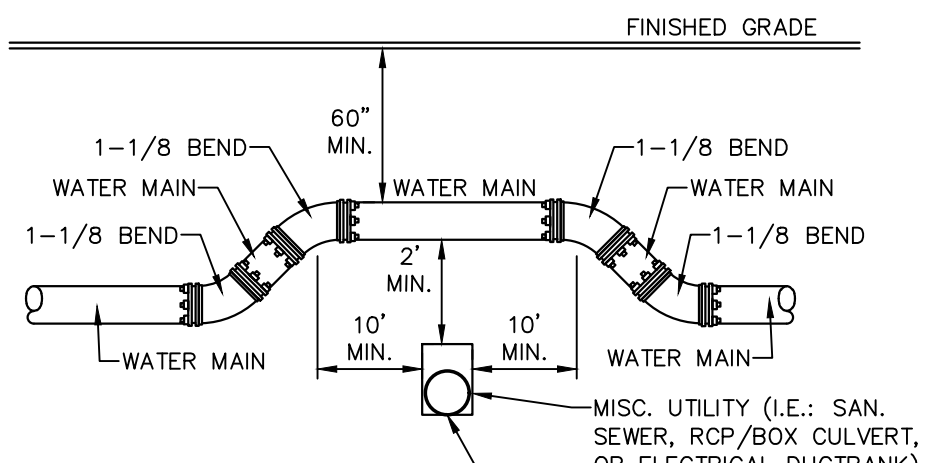
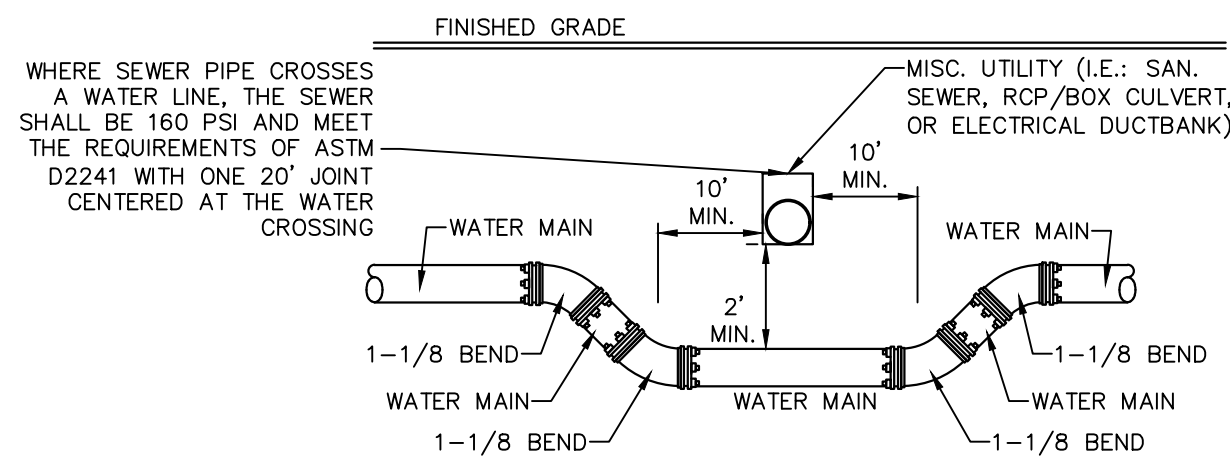
SEWER LOWER - WEST SEWERSHED - DOS RIOS/LEON CREEK

DEVELOPER'S NAME: EL RANCHO SONRISA, LLC
ADDRESS: 8626 JODHPUR
CITY: FAIR OAKS RANCH STATE: TEXAS ZIP: 78015
PHONE# (210) 381-9813 FAX#
14-8536 14-8536 14-8536 &
SAWS BLOCK MAP# 14-8538 TOTAL EDU'S 163 TOTAL ACREAGE 32.14
TOTAL LINEAR FOOTAGE OF PIPE: 8" 4.36 LF. PLAT NO. 24-1180006
NUMBER OF LOTS 163 SAWS JOB NO. 24-1529

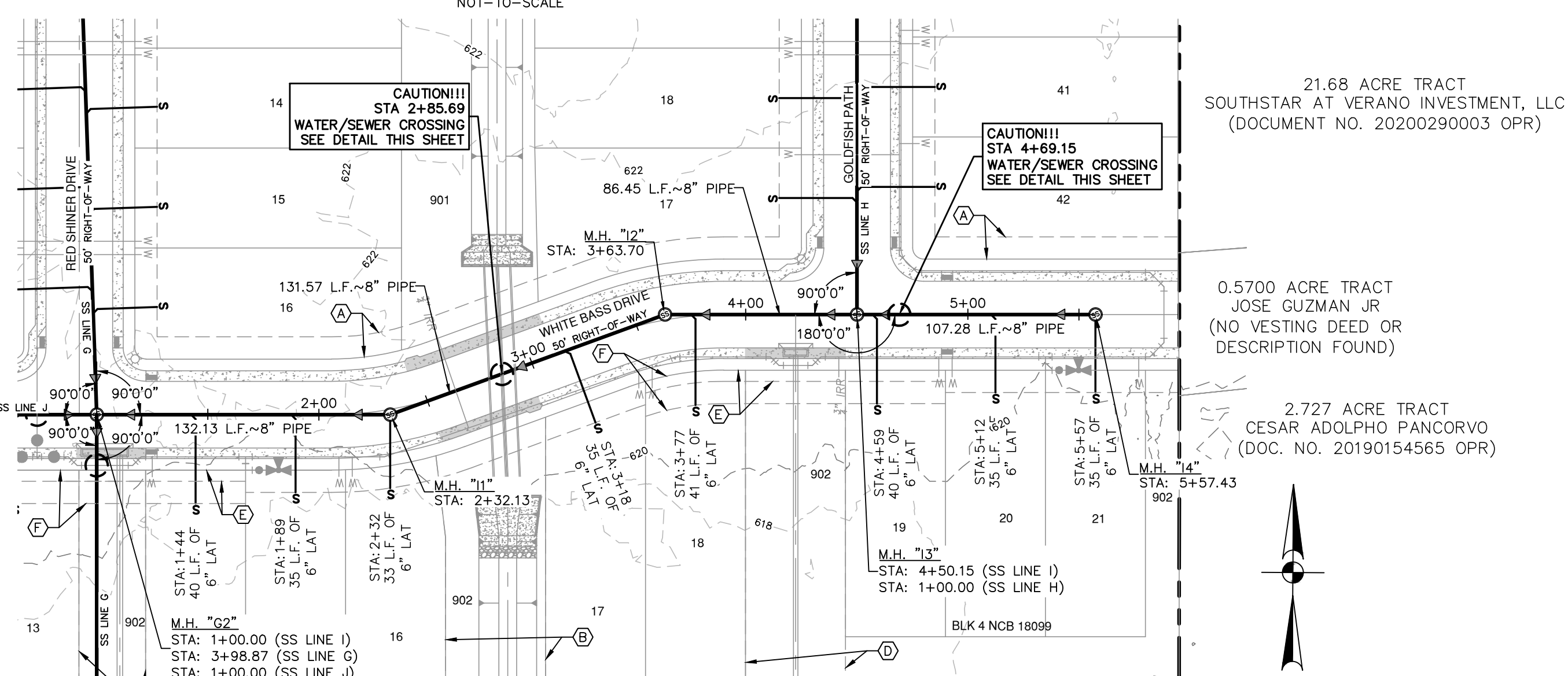
SMILEY TRACT UNIT 3 & 4

SEWER LINE H ~ STA. 12+00.00 TO END
SANITARY SEWER PLAN & PROFILE

PLAT NO. 24-11800067
 JOB NO. 13316-03
 DATE JULY 2024
 DESIGNER AS
 CHECKED AS DRAWN AD
 SHEET **C5.05**



TYPICAL UTILITY/WATER
CROSSING DETAIL



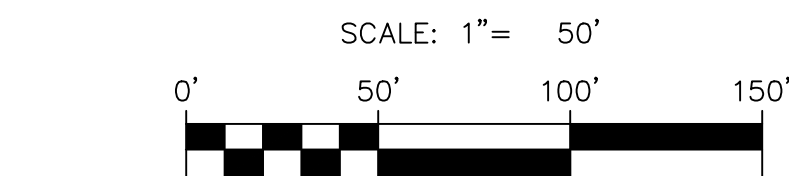
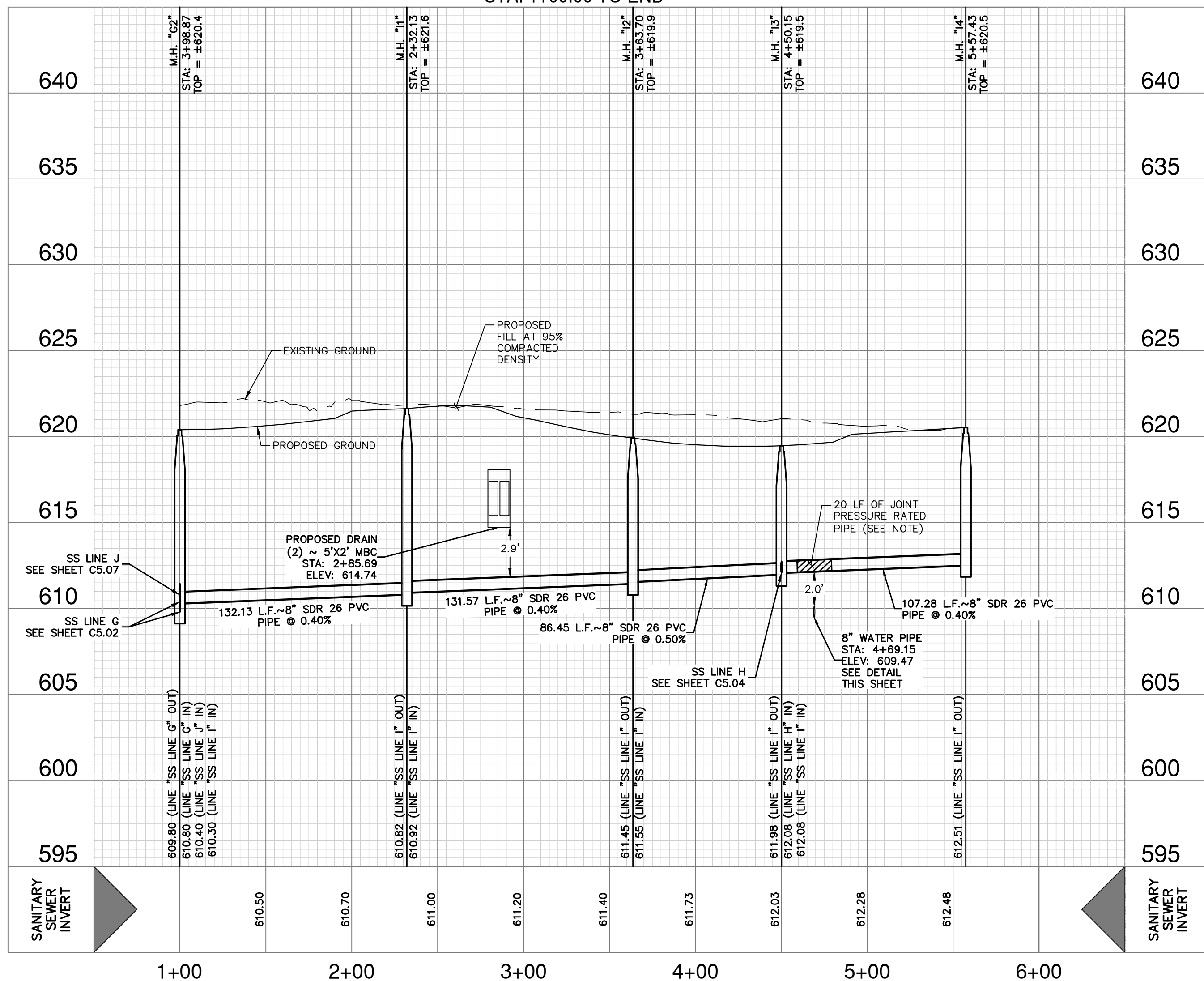
21.68 ACRE TRACT
SOUTHSTAR AT VERANO INVESTMENT, LLC
(DOCUMENT NO. 20200290003 OPR)

0.5700 ACRE TRACT
JOSE GUZMAN JR
(NO VESTING DEED OR
DESCRIPTION FOUND)

2.727 ACRE TRACT
SAR ADOLPHO PANCORVO
C. NO. 20190154565 OPR)

SANITARY SEWER LINE "I"
STA. 1+00.00 TO END

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



SEWER LEGEND

PROJECT LIMITS

EXISTING WATER

EXISTING SEWER

PROPOSED SEWER

PROPOSED WATER

PROPOSED SEWER LATERAL

KEY LEGEND

A 10' ELEC., GAS, TELE., & CA. T.V. EASEMENT

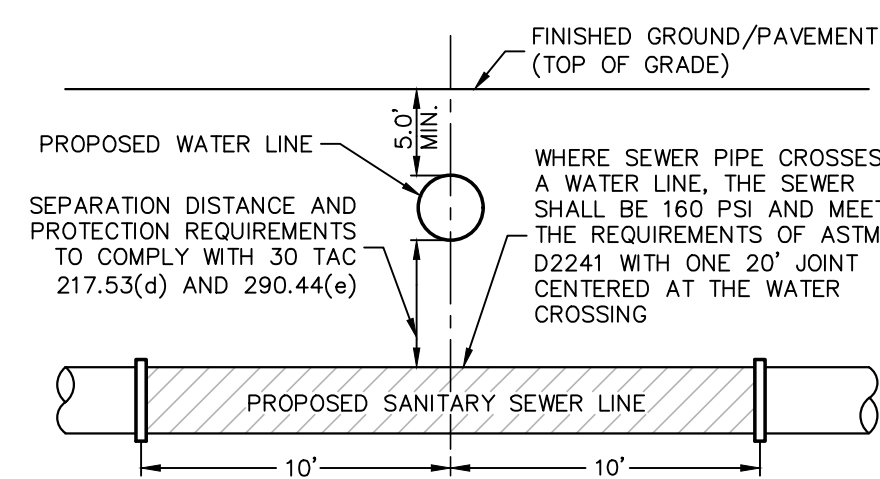
 VARIABLE WIDTH DRAINAGE EASEMENT

30' DRAINAGE EASEMENT

45' DRAINAGE EASEMENT

5' WATER EASEMENT

15' ELEC. GAS, TELE. & C.A. TV EASEMENT



TYPICAL SANITARY
SEWER/WATER CROSSING DETAIL

CAUTION!!

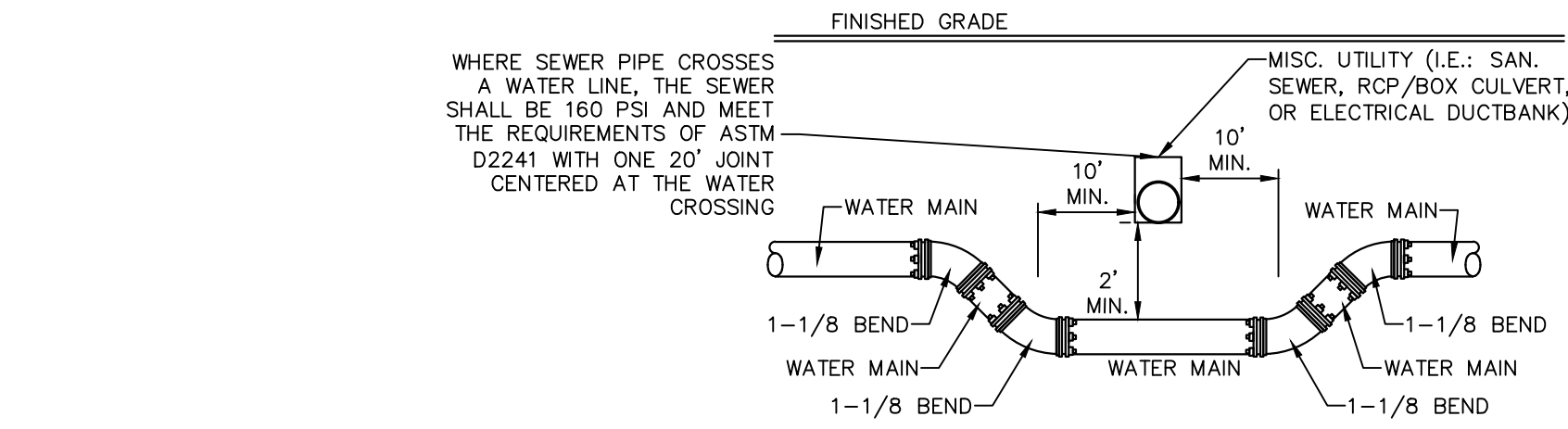
CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE 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 BEGINNING OF CONSTRUCTION TO OBTAIN THE EXISTING UTILITIES BEING LOCATED. THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

TRENCH EXCAVATION SAFETY PROTECTION:

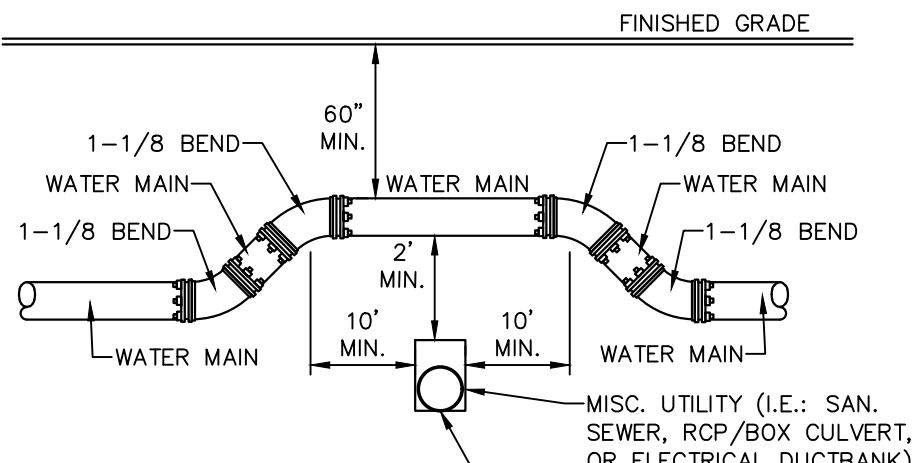
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE WORK AREA, AND SHALL ADVISE THE CONTRACTOR OF ANY 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. THE CONTRACTOR SHALL EMPLOY A TRENCH SAFETY PROGRAM FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY/EQUIPMENT CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS CONCERNING TRENCHING ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

SEWER LOWER - WEST SEWERSHED - DOS RIOS/LEON CREEK

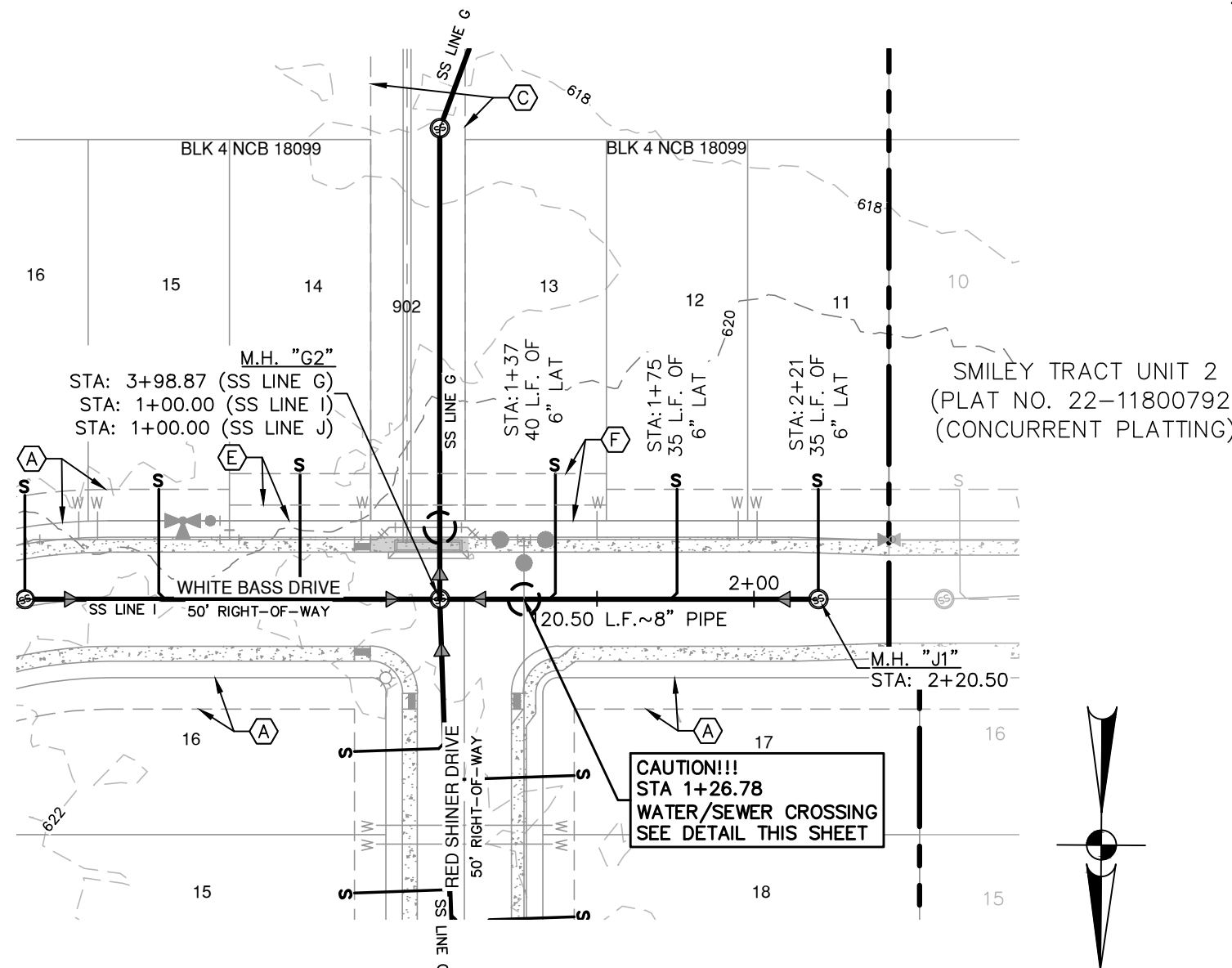
DEVELOPER'S NAME: EL RANCHO SONRISA, LLC
ADDRESS: 8626 JODHPUR
CITY: FAIR OAKS STATE: TEXAS ZIP: 78015
PHONE# (210) 381-9813 FAX# _____
14-8556, 14-8538, 14-8536, &
SAWS BLOCK MAP# 124-075 TOTAL EDU'S 2 TOTAL ACREAGE N/A
TOTAL LINEAR FOOTAGE OF PIPE: 8" 6.072 LF PLAT NO. N/A
NUMBER OF LOTS N/A SAWS JOB NO. 24-1540



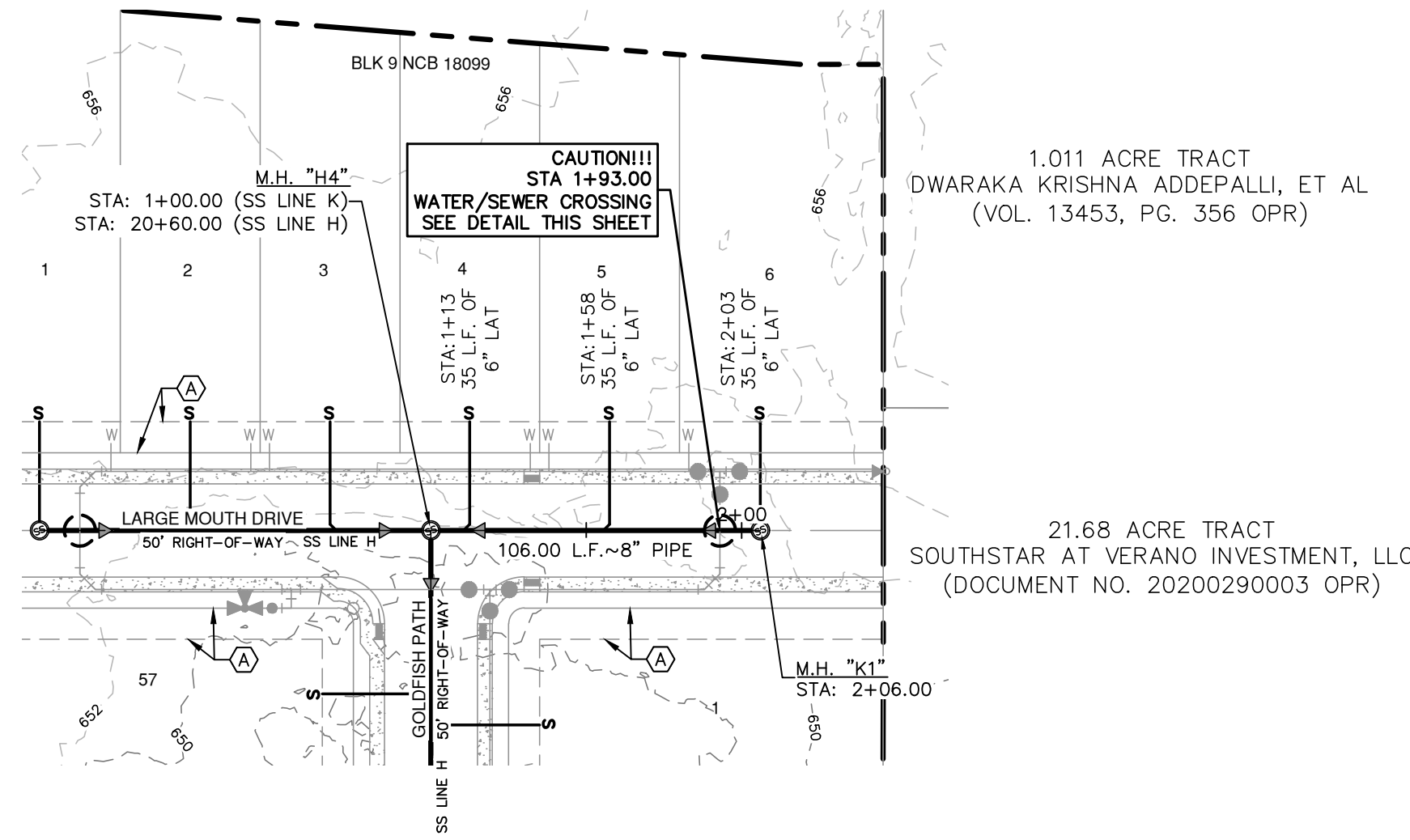
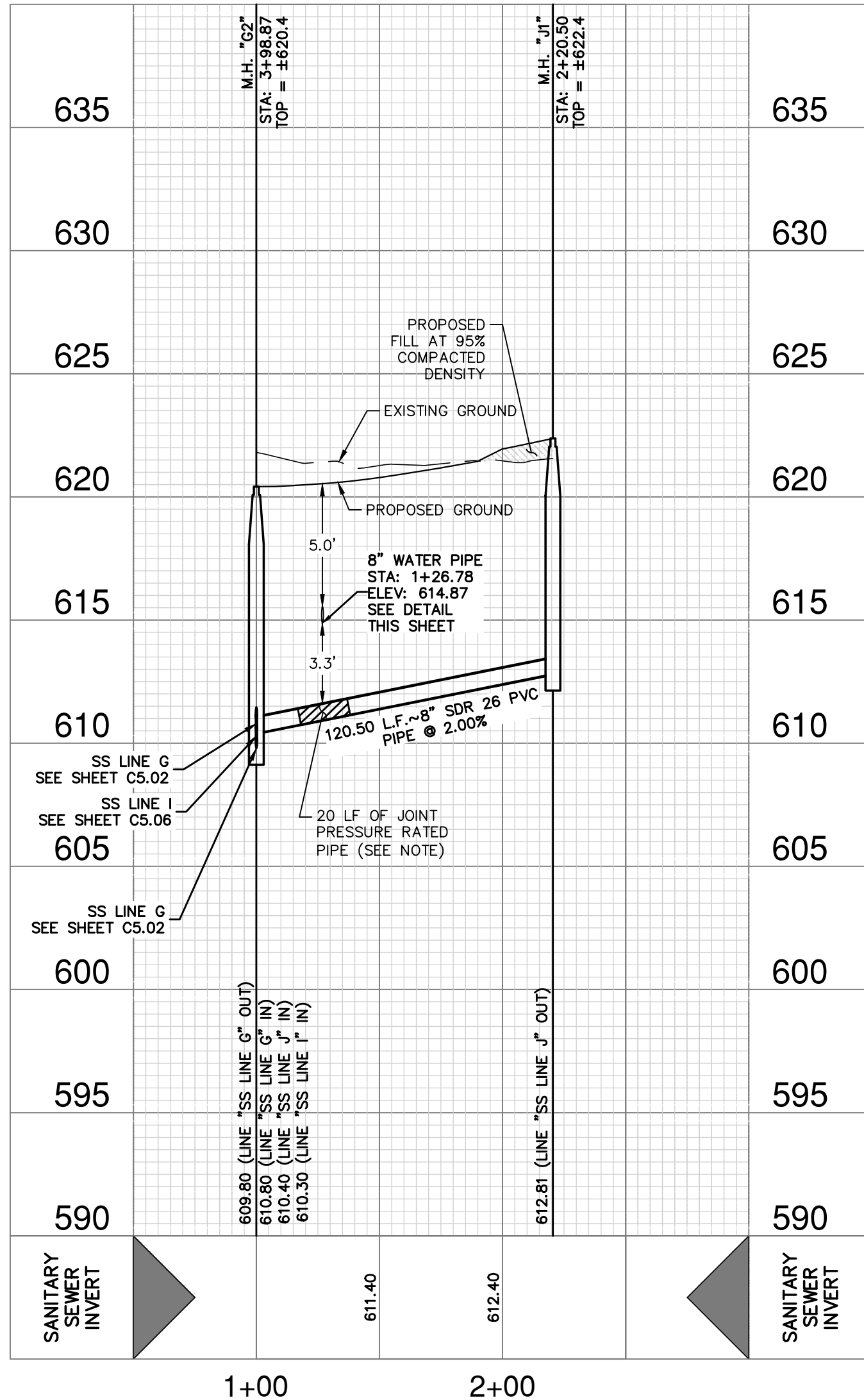
TYPICAL UTILITY/WATER CROSSING DETAIL
NOT-TO-SCALE



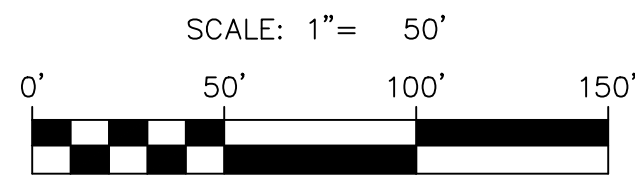
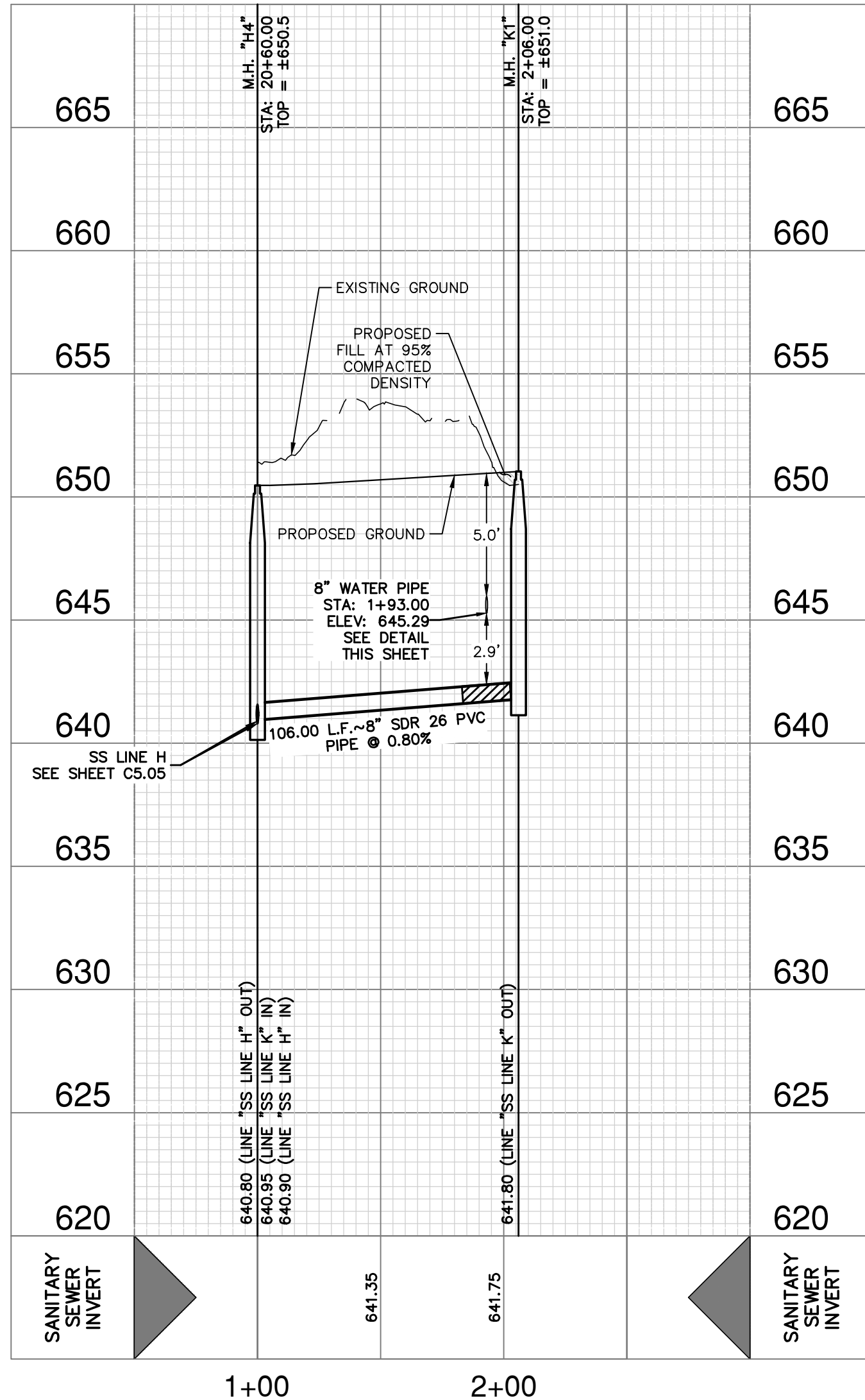
WHERE SEWER PIPE CROSSES A WATER LINE, THE SEWER SHALL BE 160 PSI AND MEET THE REQUIREMENTS OF ASTM D2241 WITH ONE 20' JOINT CENTERED AT THE WATER CROSSING



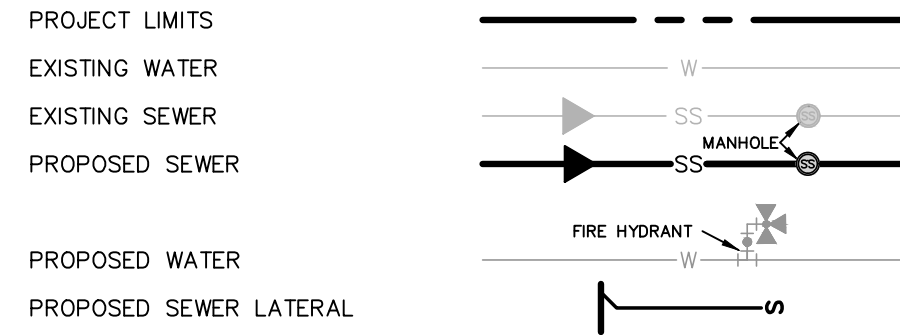
SANITARY SEWER LINE "J"
STA. 1+00.00 TO END
VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 50'



SANITARY SEWER LINE "K"
STA. 1+00.00 TO END
VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 50'

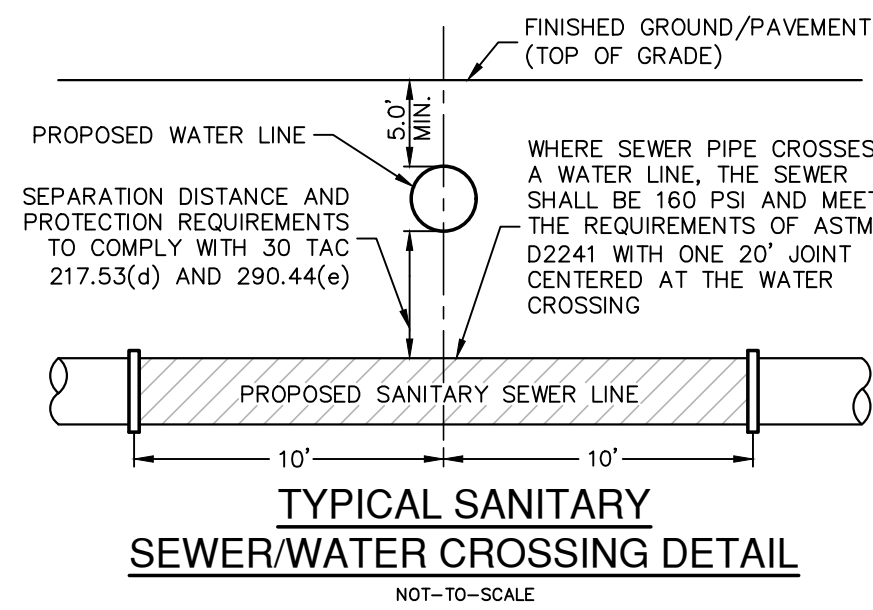


SEWER LEGEND



KEY LEGEND

- (A) 10' ELEC., GAS, TELE., & CA. T.V. EASEMENT
- (C) 30' DRAINAGE EASEMENT
- (E) 5' WATER EASEMENT
- (F) 15' ELEC., GAS, TELE., & CA. T.V. EASEMENT



CAUTION!!!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

TRENCH EXCAVATION SAFETY PROTECTION:

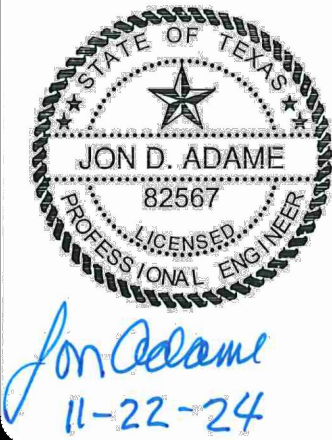
CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

SEWER LOWER - WEST SEWERSHED - DOS RIOS/LEON CREEK

DEVELOPER'S NAME: EL RANCHO SONRISA, LLC	
ADDRESS: 8626 JODHPUR	
CITY: FAIR OAKS RANCH	STATE: TEXAS ZIP: 78015
PHONE# (210) 381-9813	FAX#
14-6536, 14-6538, 14-6536 & 14-6536	
SAWS BLOCK MAP# P24-073 TOTAL EDU'S 2 TOTAL ACREAGE 11.4	
TOTAL LINEAR FOOTAGE OF PIPE: 8" 6,072 LF PLAT NO. N/A	
NUMBER OF LOTS N/A	SAWS JOB NO. 24-1540

SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS
SEWER LINE J ~ STA. 1+00.00 TO END
SEWER LINE K ~ STA. 1+00.00 TO END
SANITARY SEWER PLAN & PROFILE

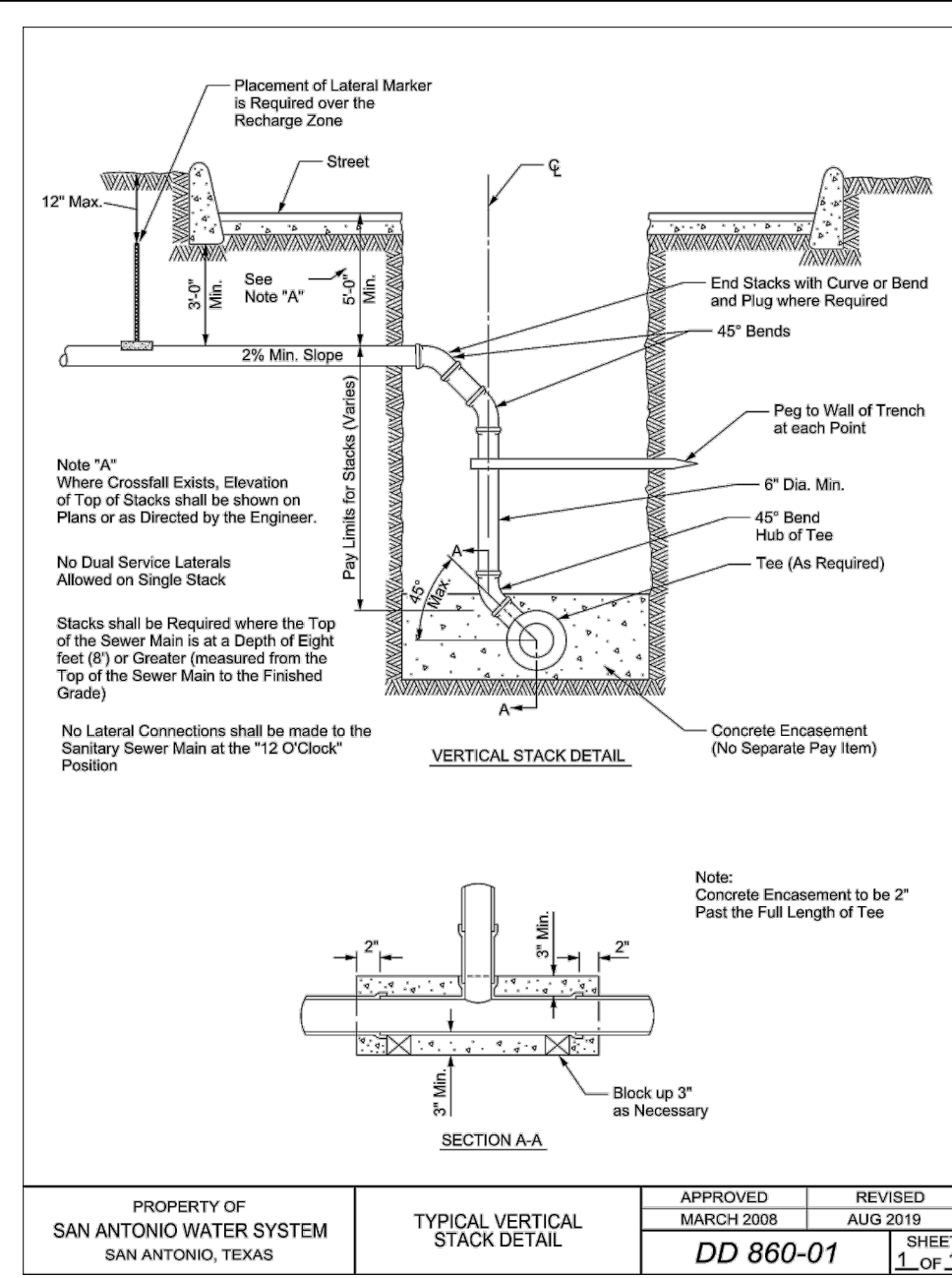
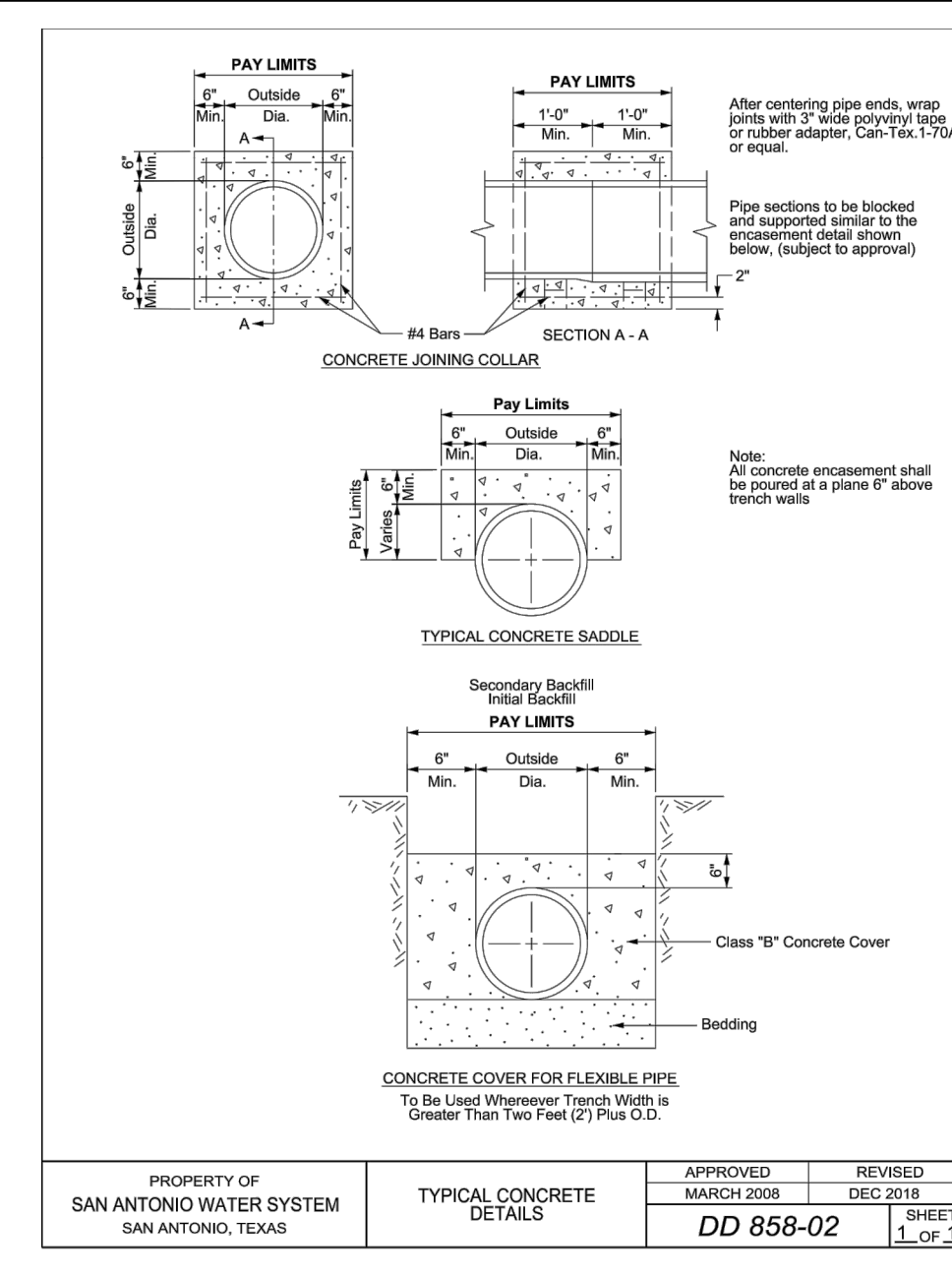
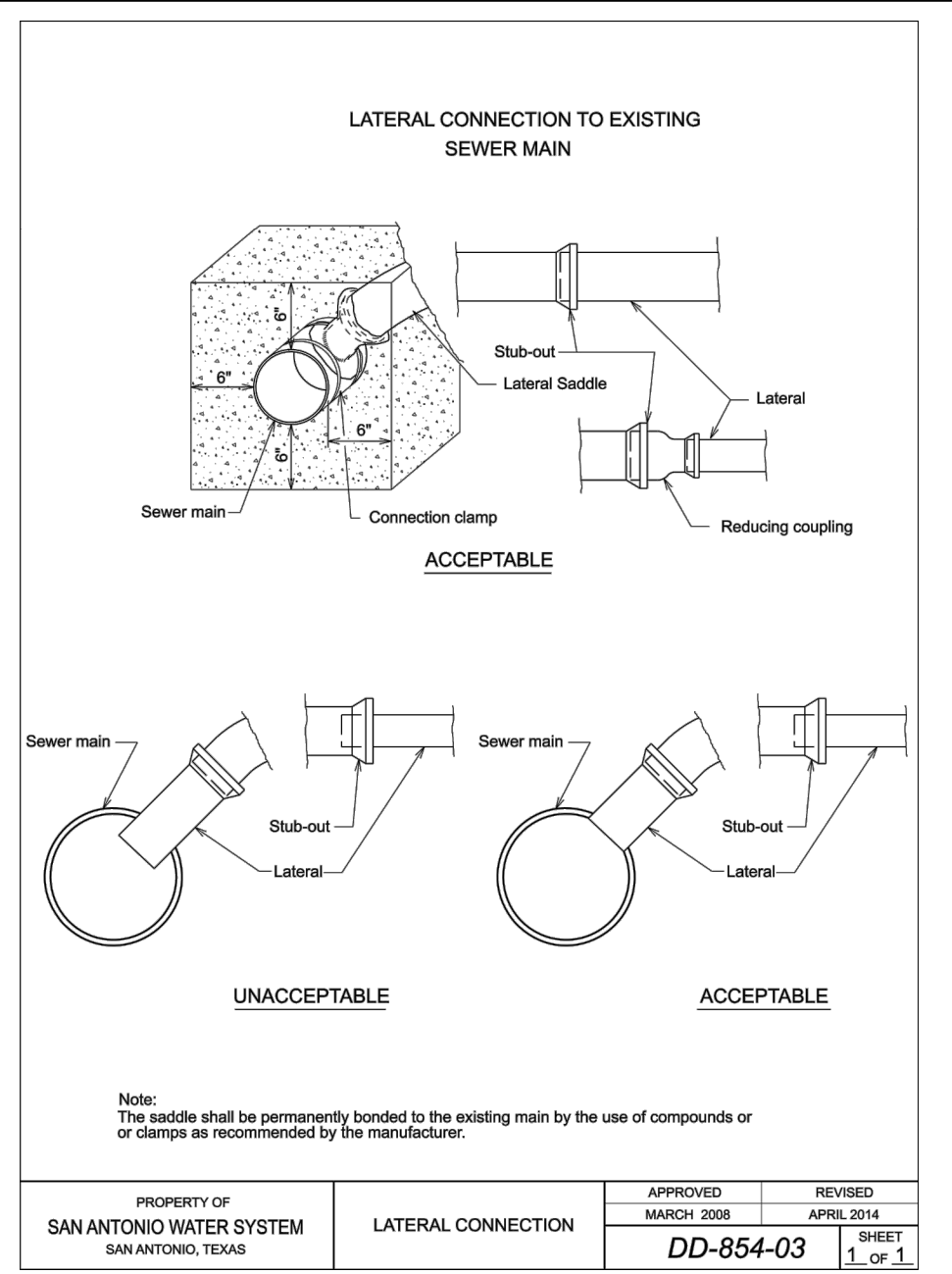
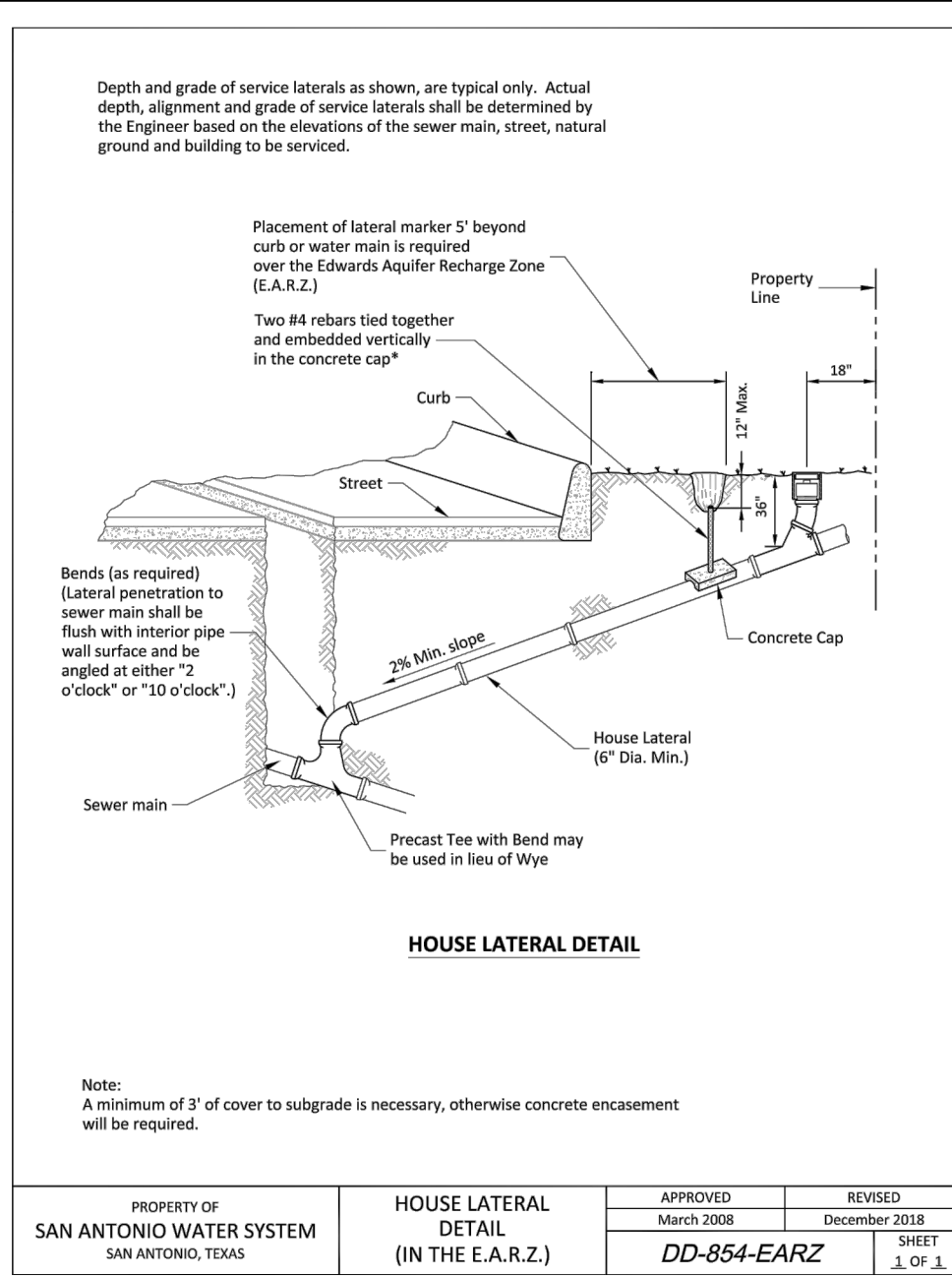
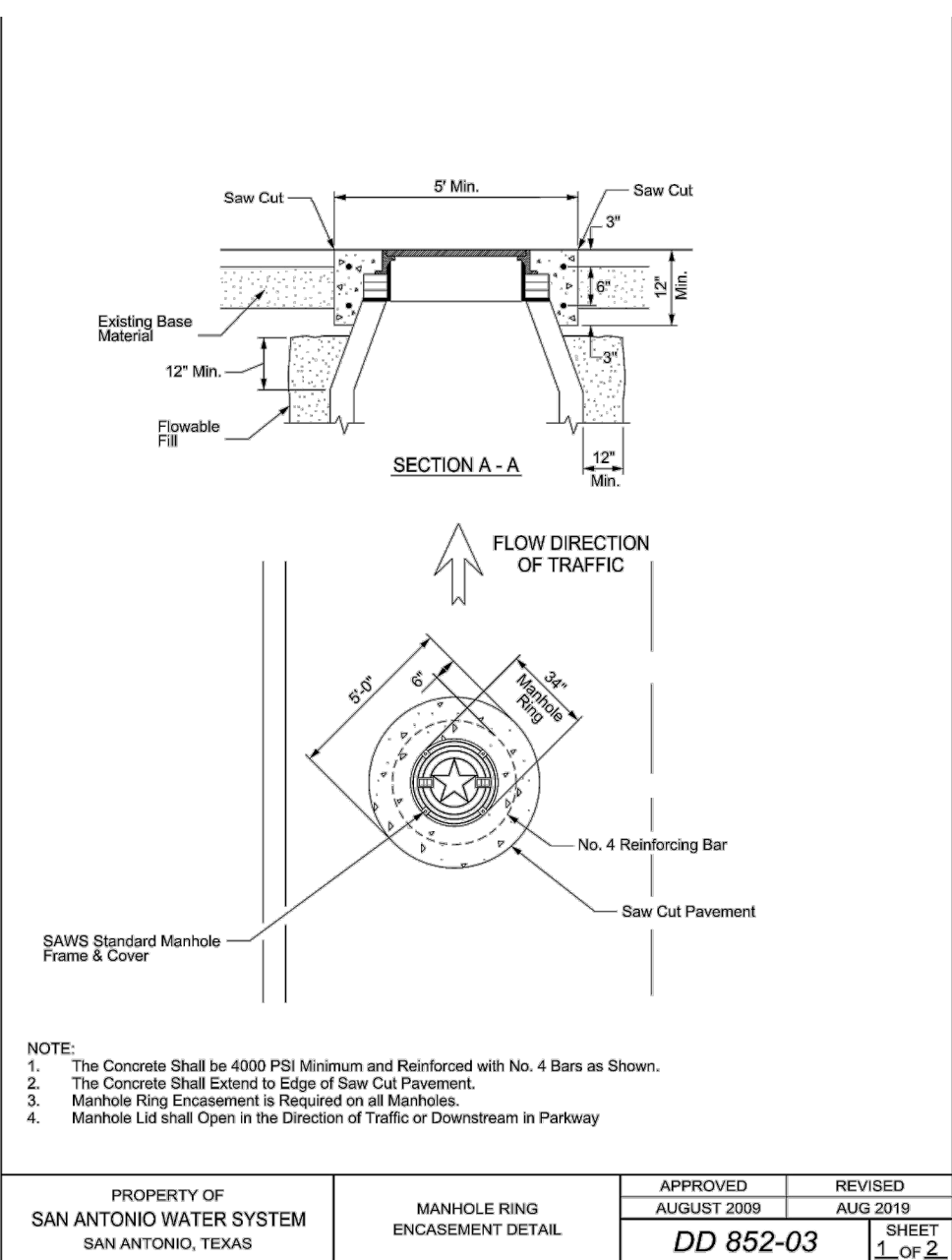
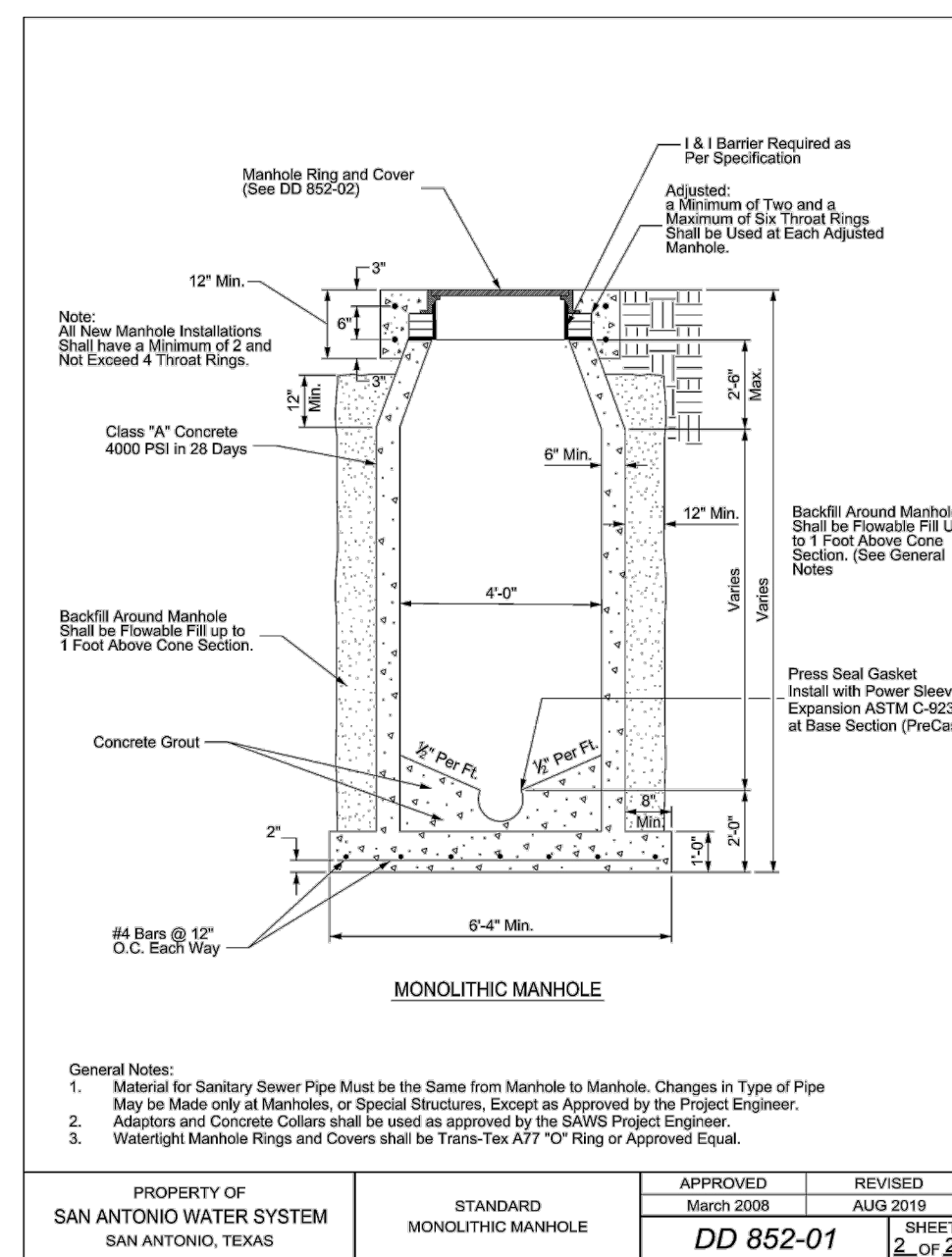
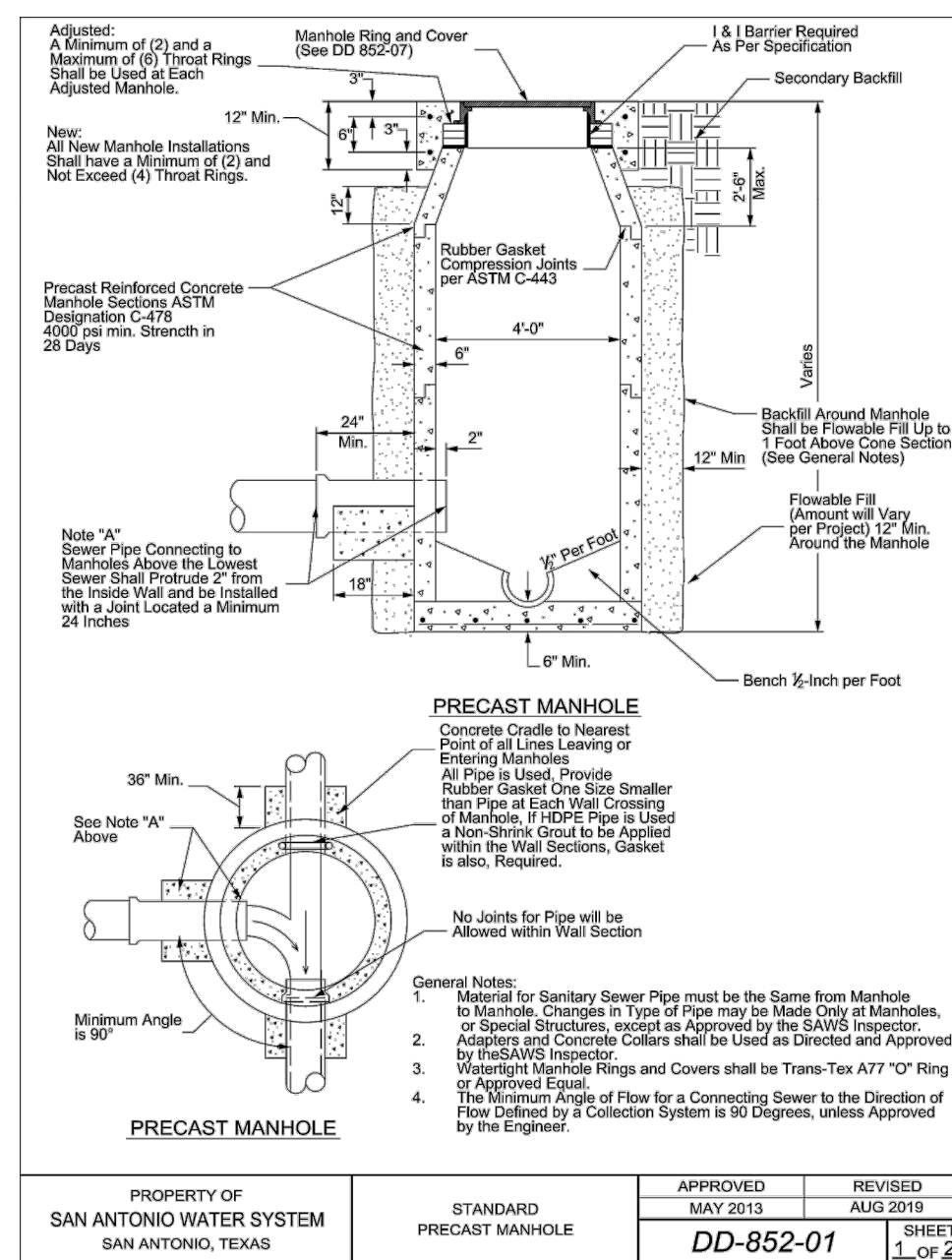
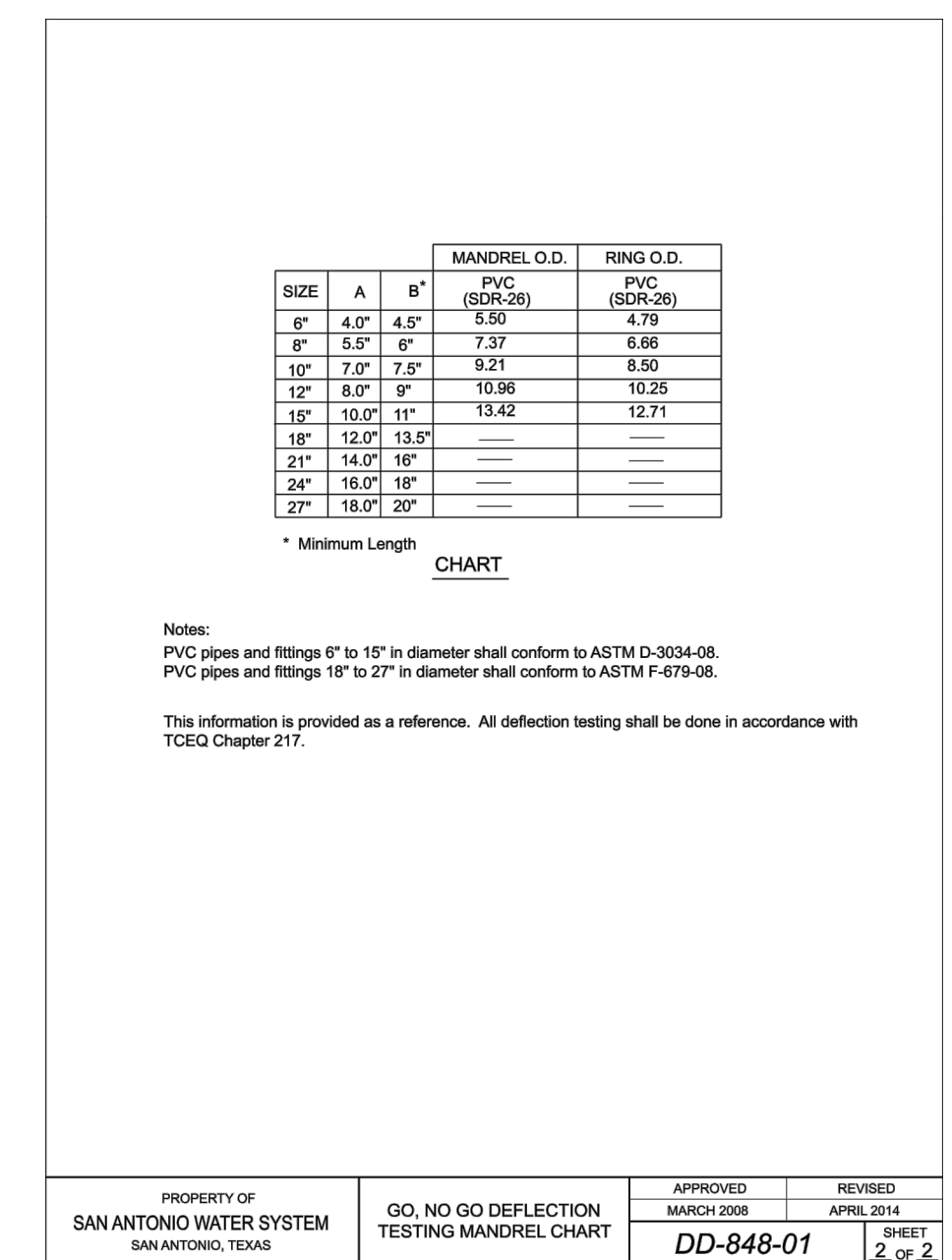
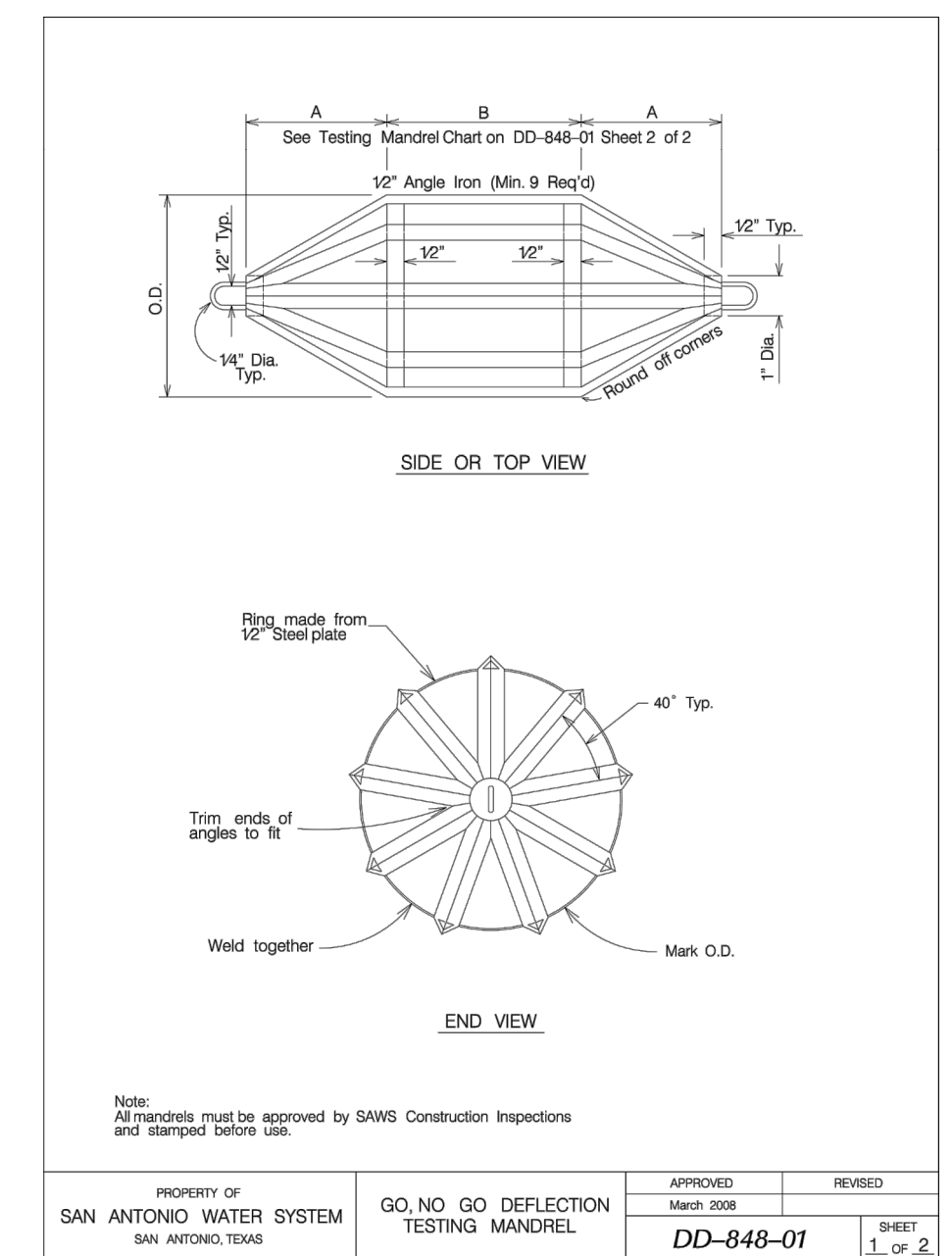
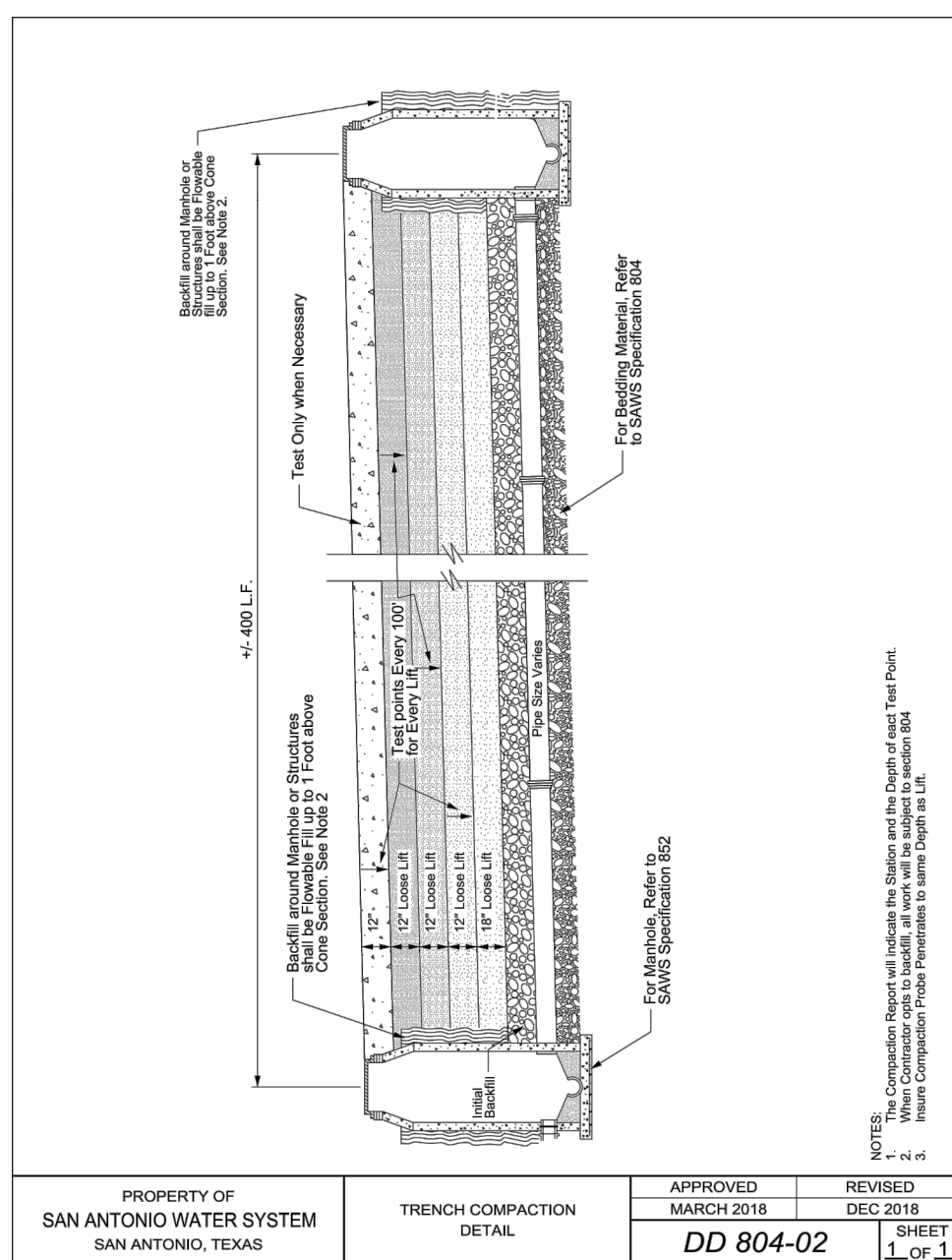
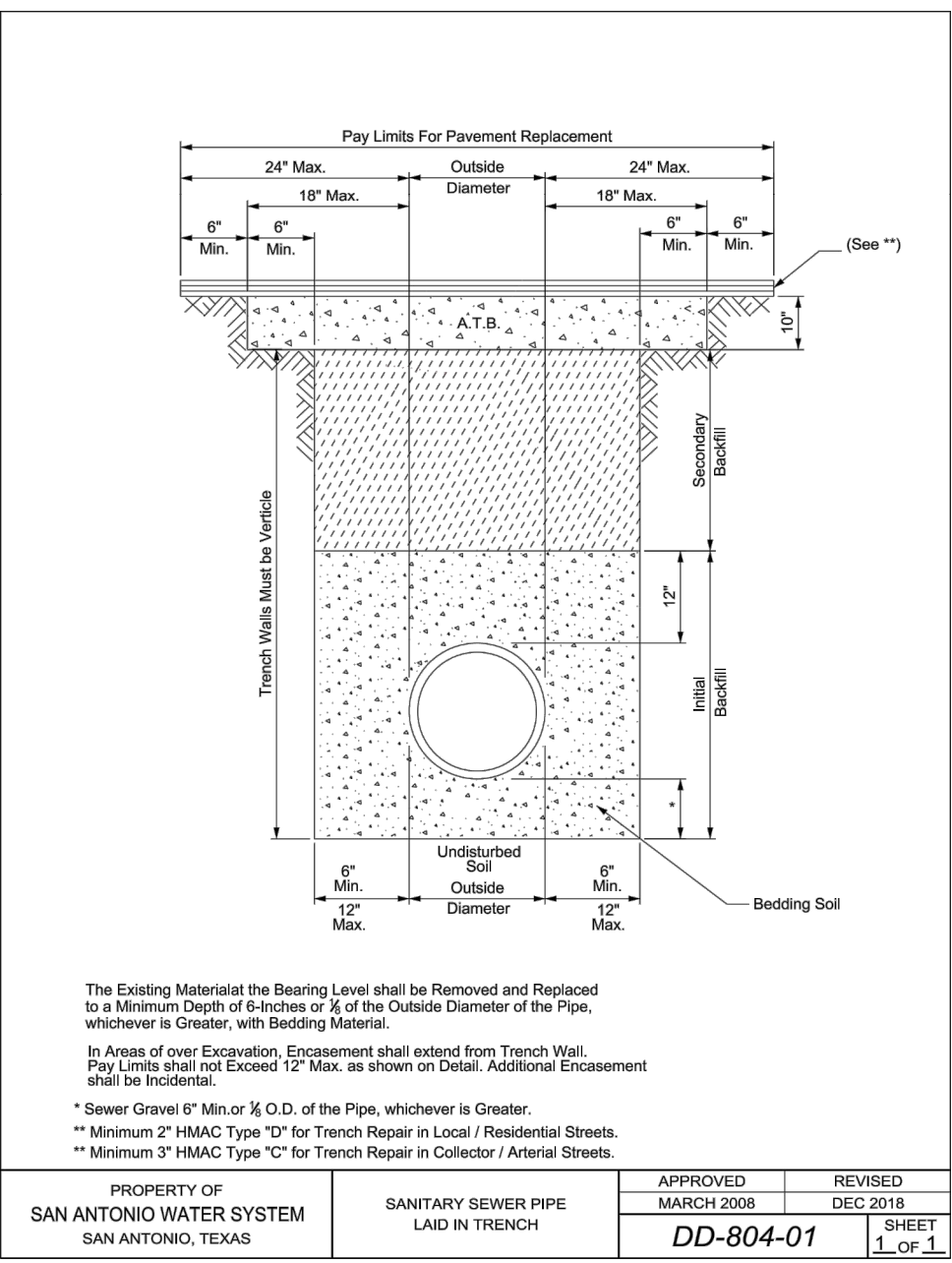
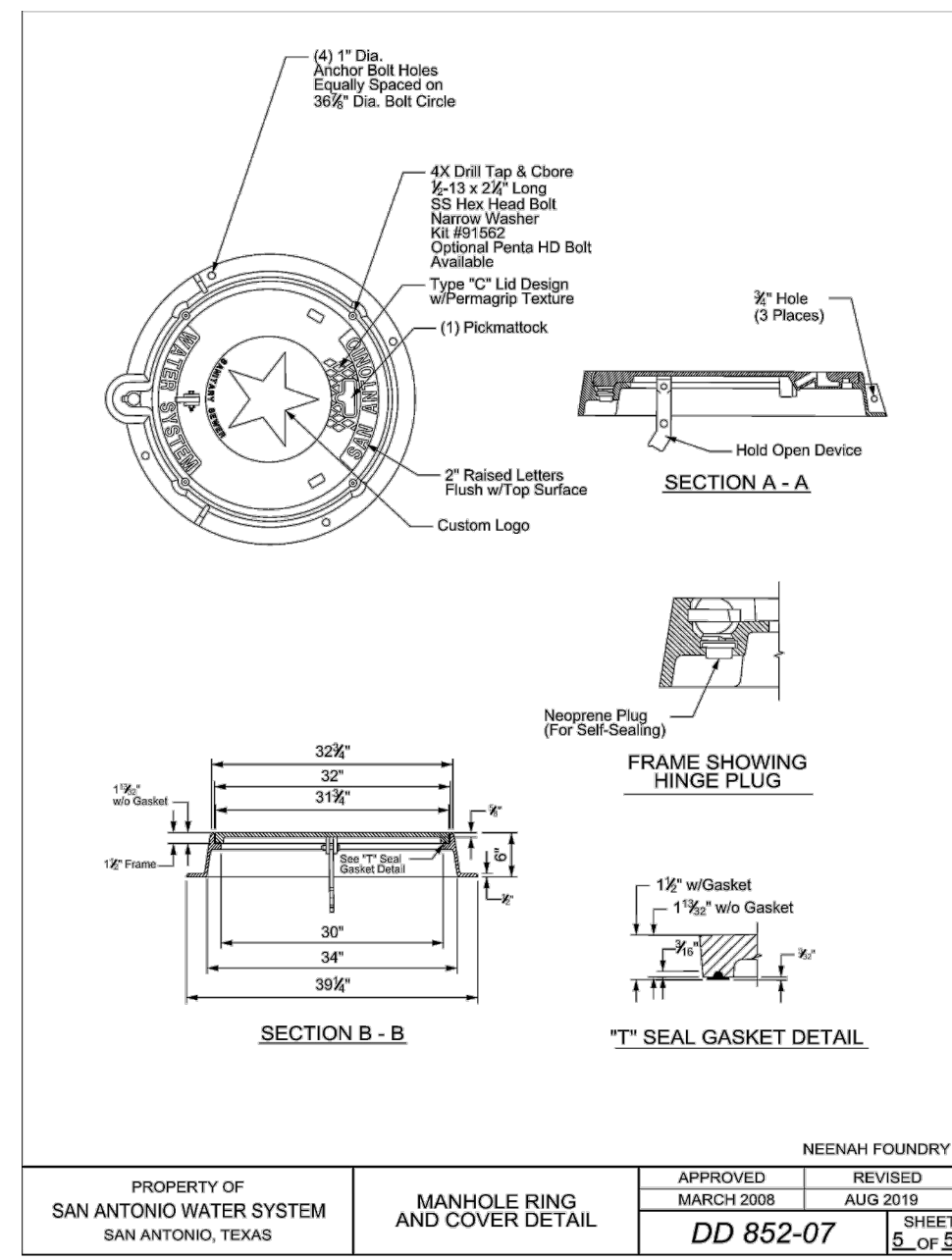
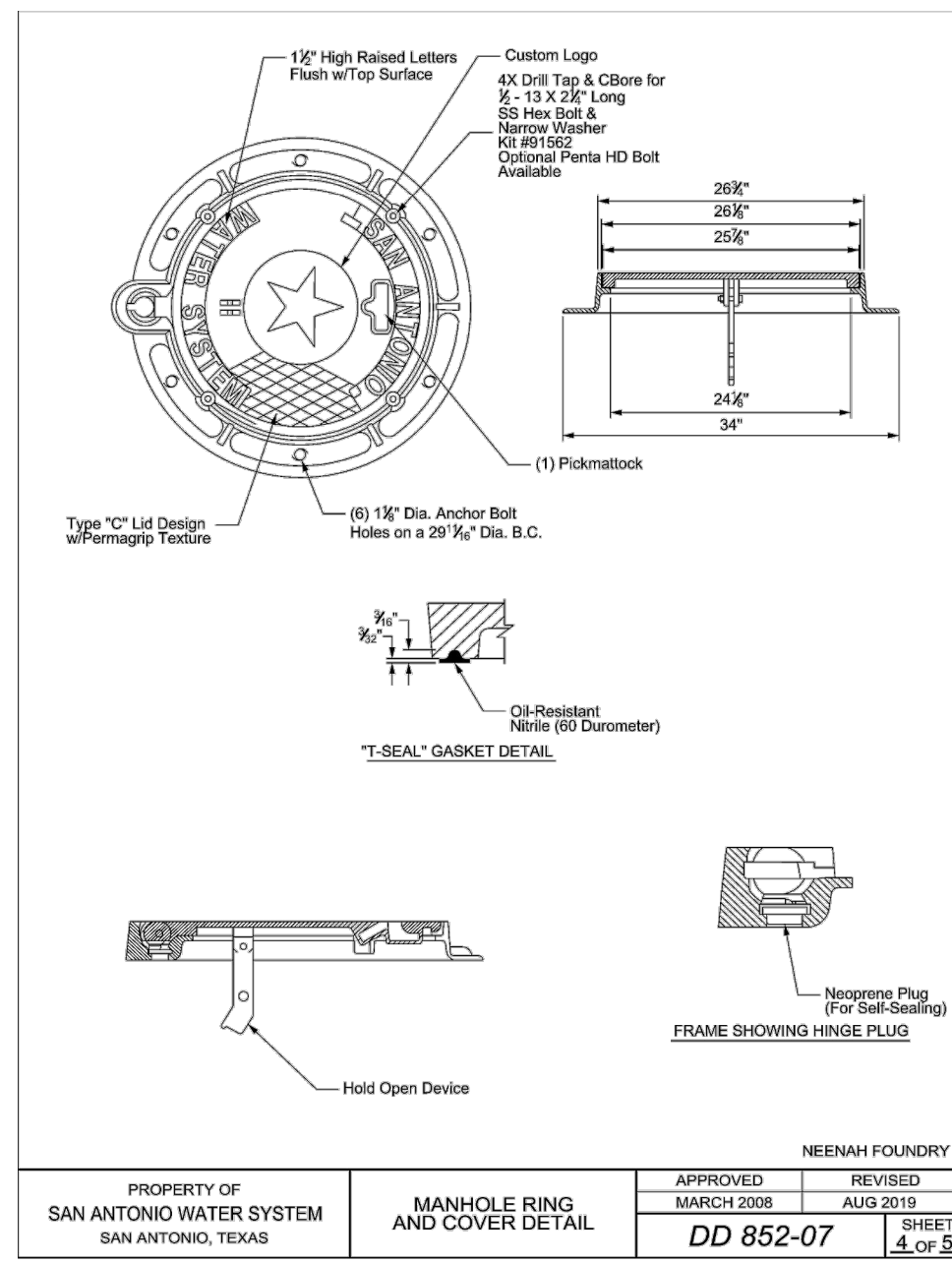
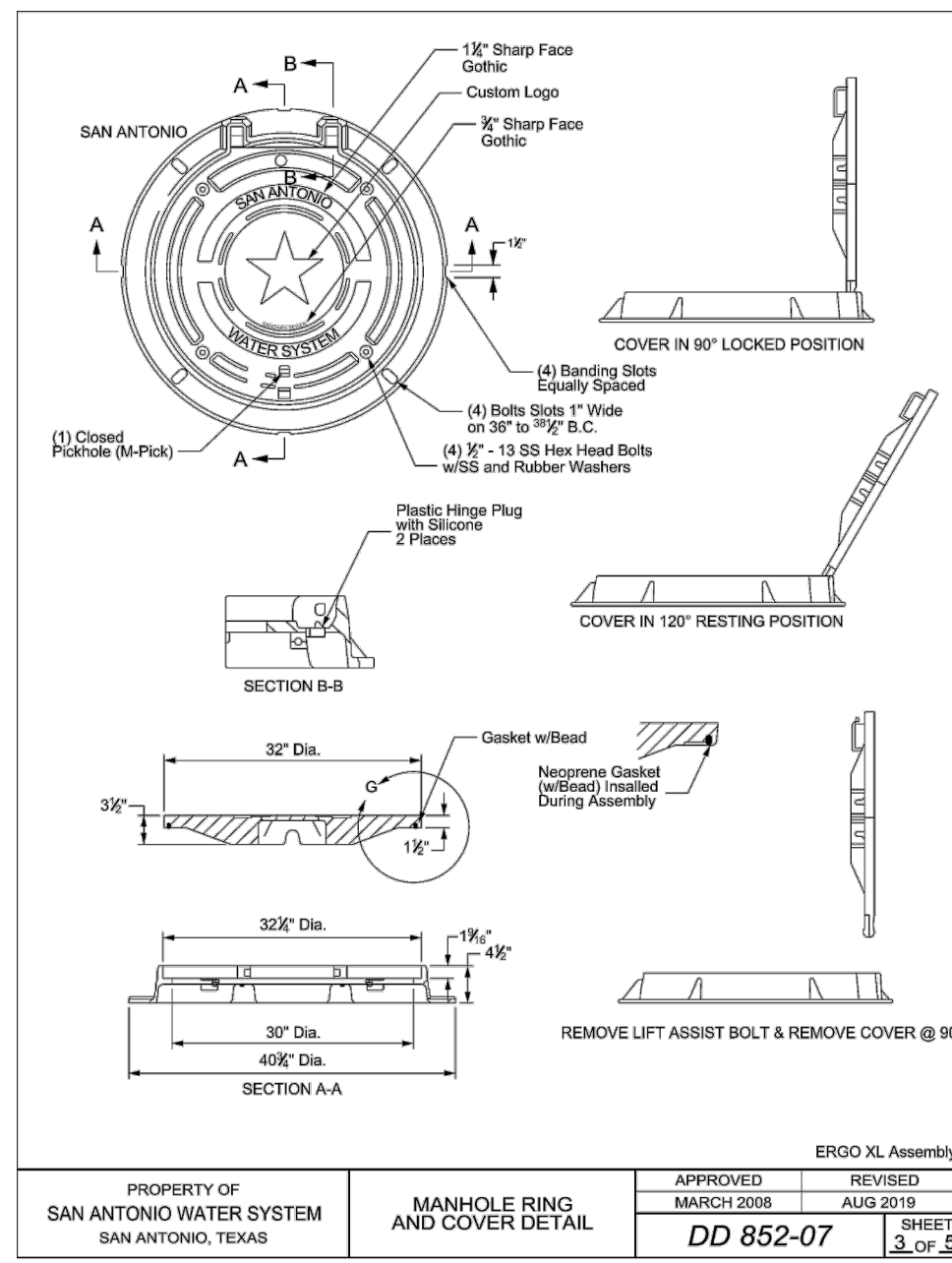
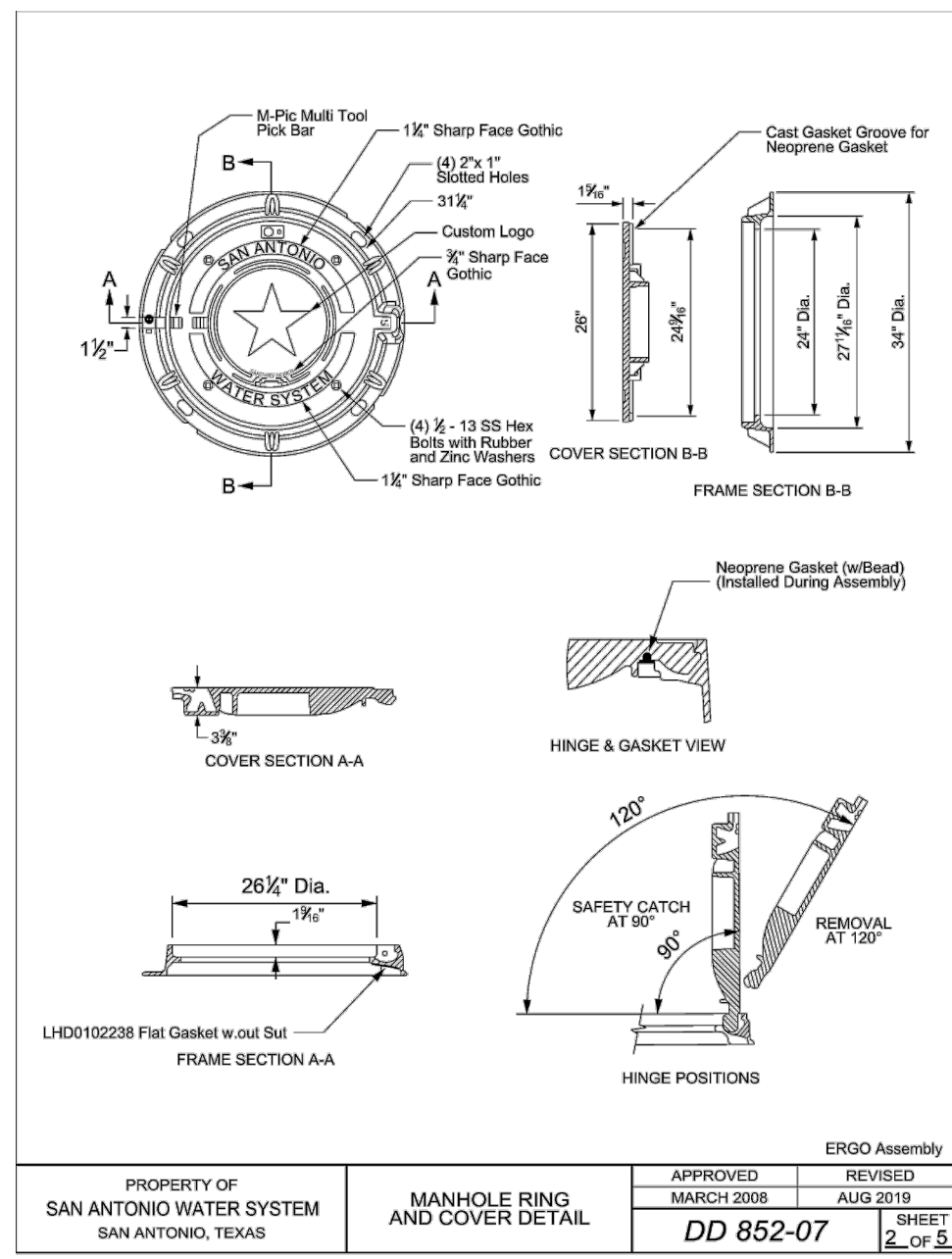
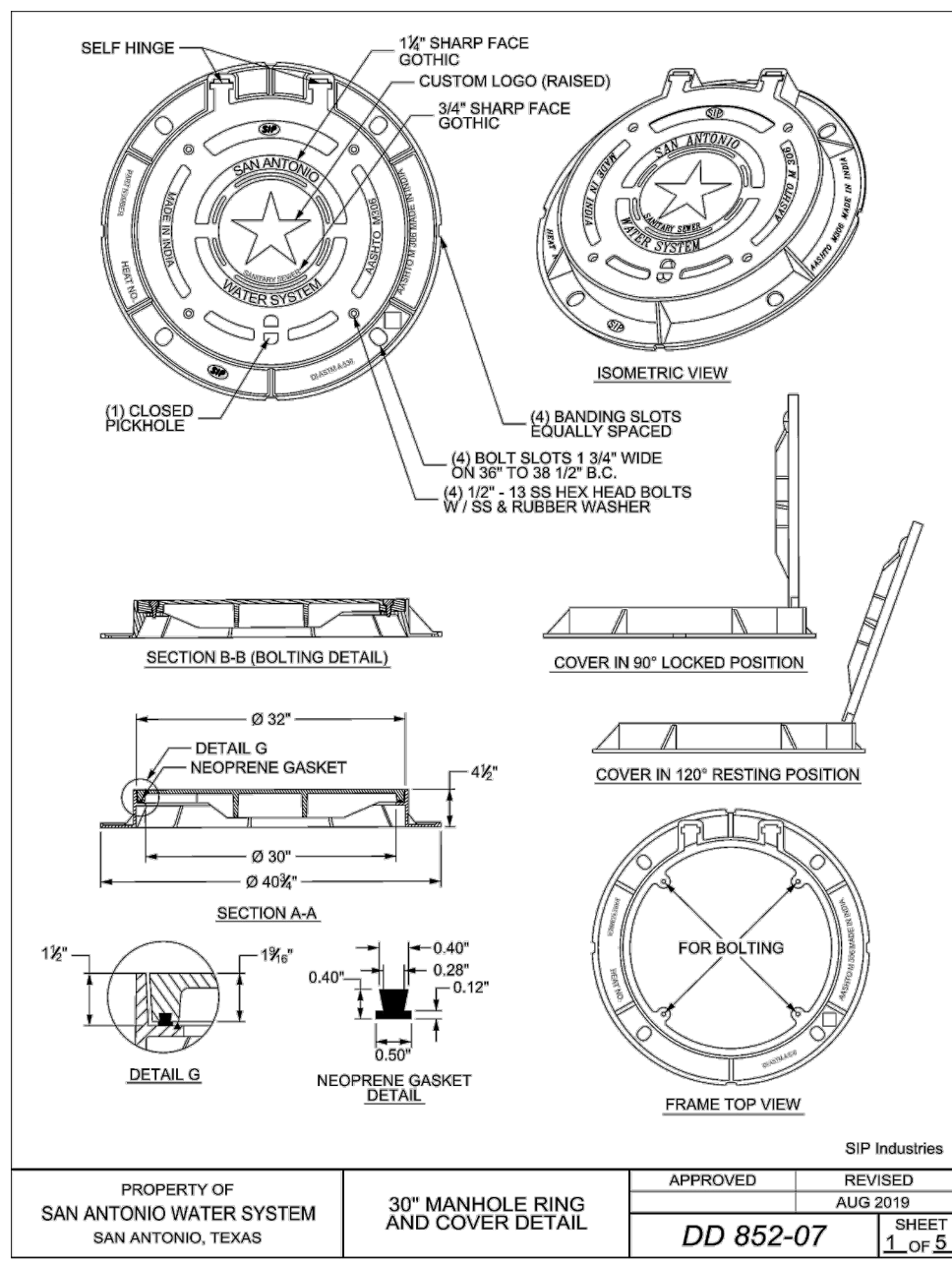
PLAT NO. 24-11800067
JOB NO. 13316-03
DATE JULY 2024
DESIGNER AS
CHECKED AS DRAWN AD
SHEET C5.07



PAPE-DAWSON ENGINEERS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008800

Date: Jul 10, 2024, 8:24am User: ID: asky
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DATE

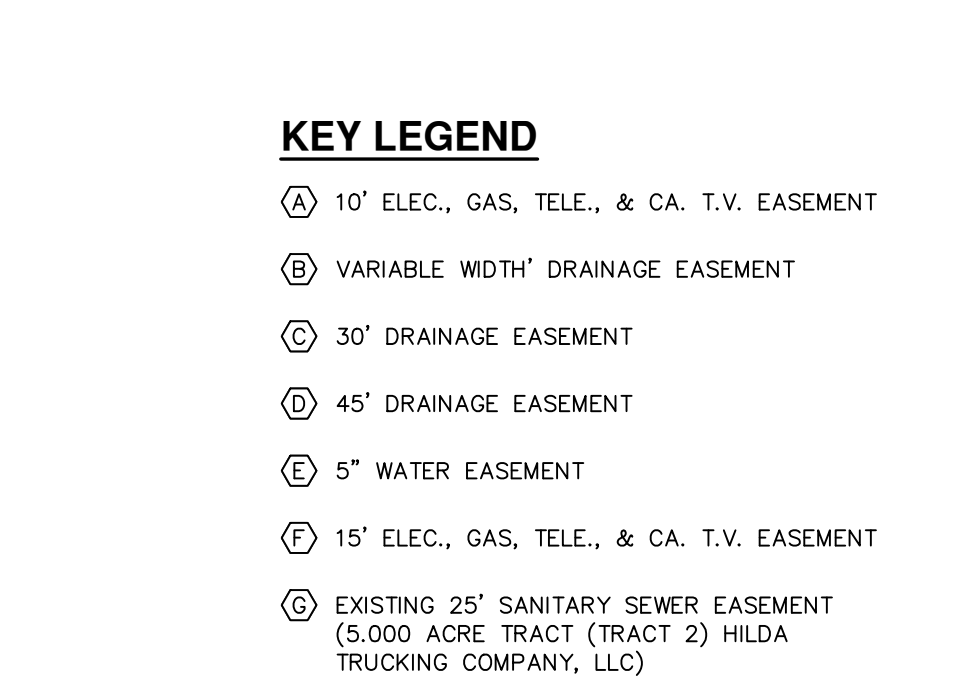
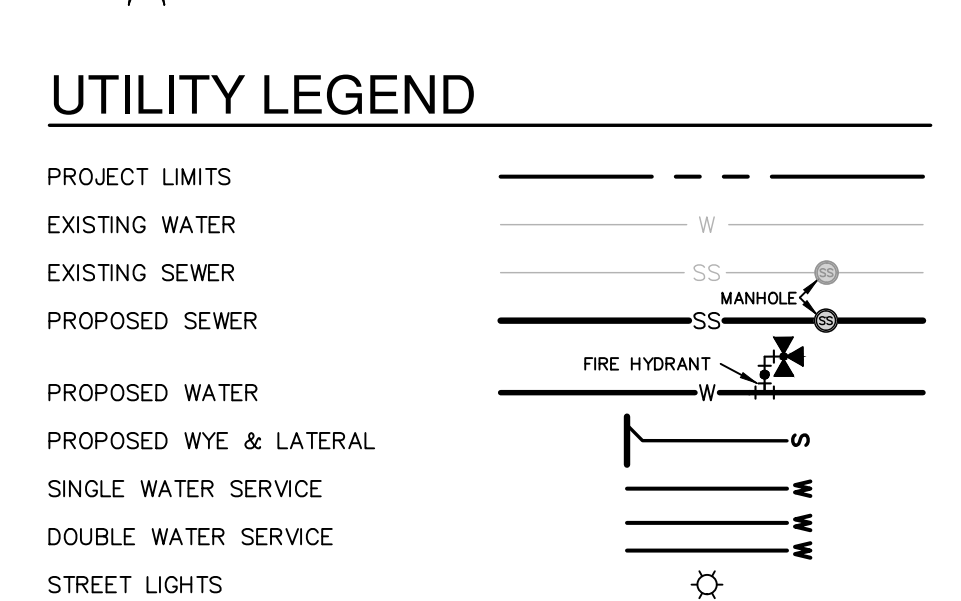
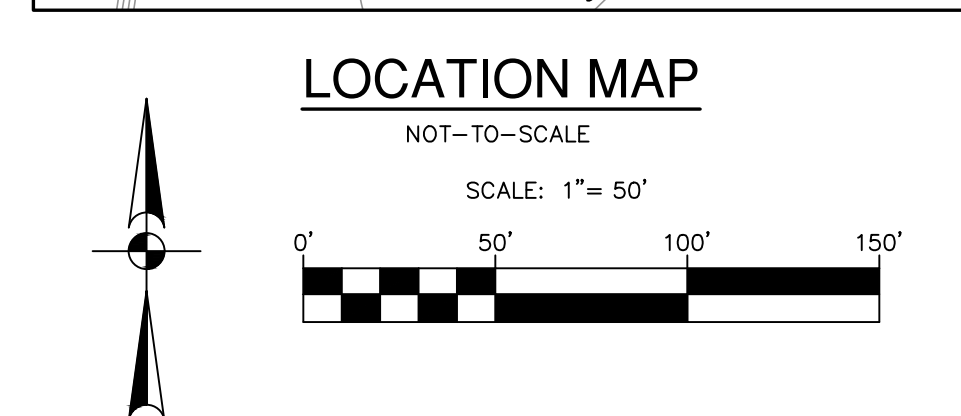
NO. REVISION

Jon Adams
7-10-24

SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS
SANITARY SEWER DETAILS

24-11800067

JOB NO. 13316-03
DATE JULY 2024
DESIGNER AS
CHECKED AS DRAWN AD
SHEET C5.10



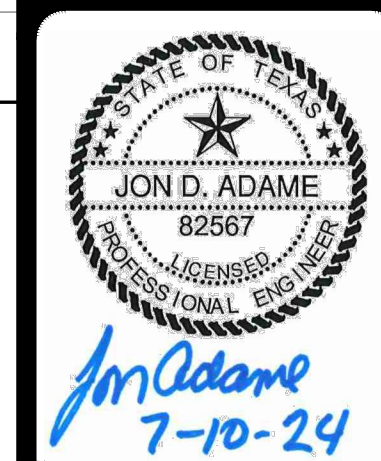
CONDUIT NOTES:

1. CONTRACTOR SHALL INSTALL PERMANENT MARKERS IN PROPOSED CURBS WHERE CONDUITS CROSS THE ROADWAY (BOTH SIDES).
2. CONDUITS SHALL BE PVC WITH MINIMUM BURY OF 36 INCHES BELOW PROPOSED FINISHED GRADE. SCHEDULE 40 TO BE USED FOR CPS CONDUITS. ALL OTHER CONDUITS ARE SCHEDULE 40.
3. ALL CONDUITS SHALL BE EXTENDED BEHIND CURBS OR PROPOSED SIDEWALKS A MINIMUM OF 3 FEET AND CAPPED FOR FUTURE USE.
4. ALL CONDUIT SLEEVES TO BE USED FOR ELECTRIC, GAS, OR TELECOMMUNICATION UTILITY CROSSINGS SHALL BE INSTALLED TO MEET THE EXISTED DESIGN REQUIREMENTS FOR THE UTILITY AGENCY WHICH THEY ARE SERVING, INCLUDING BUT NOT LIMITED TO THE DEPTH, TRENCH PLACEMENT, AND PROXIMITY TO OTHER UTILITIES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING AND INSTALLING THE CONDUIT SLEEVES TO MEET THESE SPECIFICATIONS INCLUDING COORDINATING WITH THE UTILITY AGENCY FOR ANY REQUIRED

TRENCH EXCAVATION SAFETY PROTECTION:

CAUTION!!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING 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 CONDITIONS THAT ARISE, SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-IT-ESS 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

[illegible]

**PAPE-DAWSON
ENGINEERS**

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028600

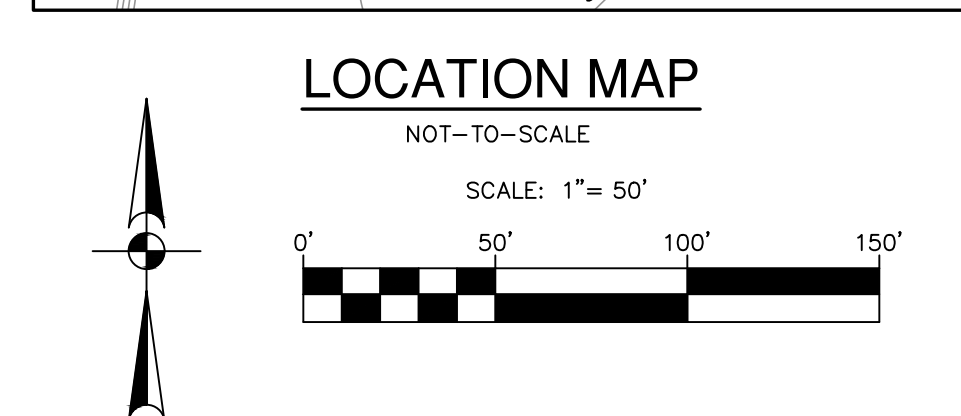
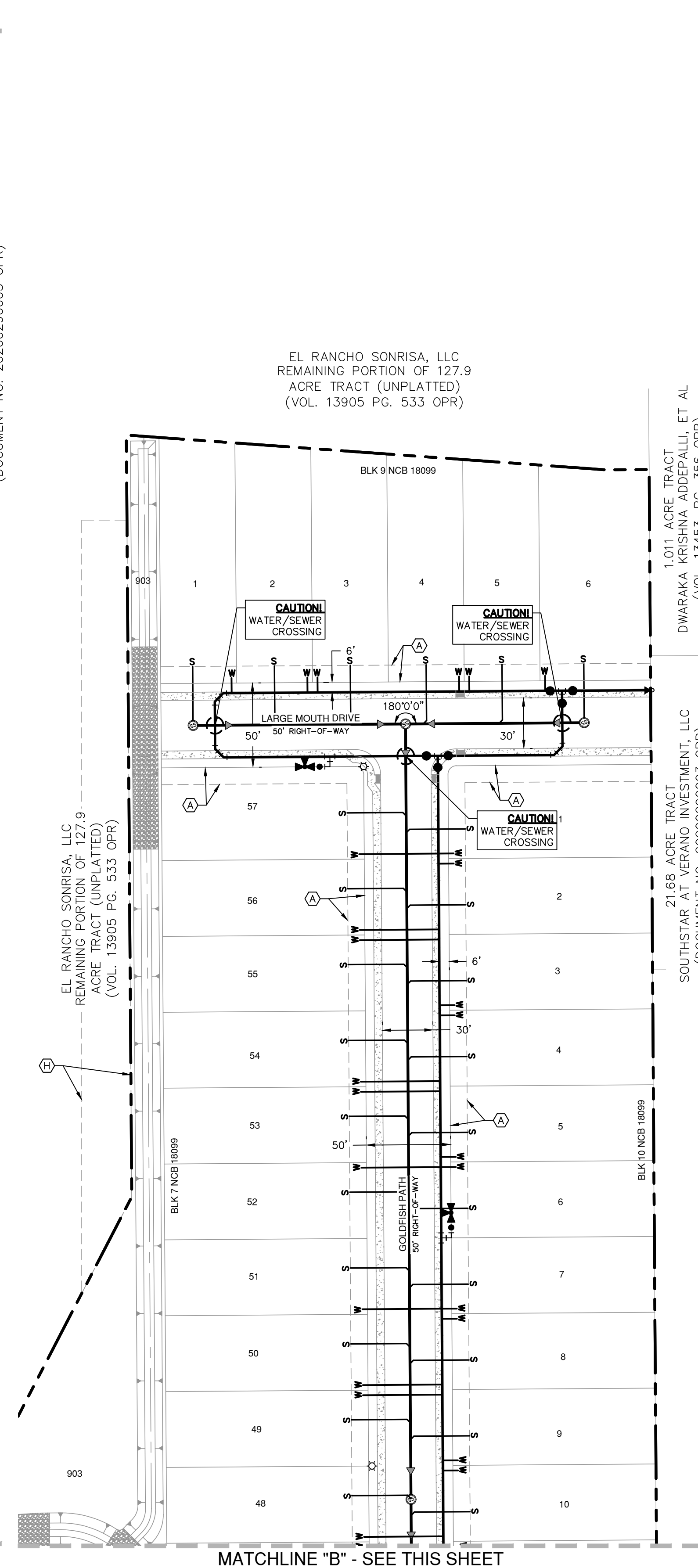
SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS
OVERALL UTILITY PLAN

PLAT NO. 24-11800067
JOB NO. 13316-03
DATE JULY 2024
DESIGNER AS
CHECKED AS DRAWN AD
SHEET C6.00



Date: Jul 10, 2024, 8:24am User ID: aatry
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CONDUIT NOTES:

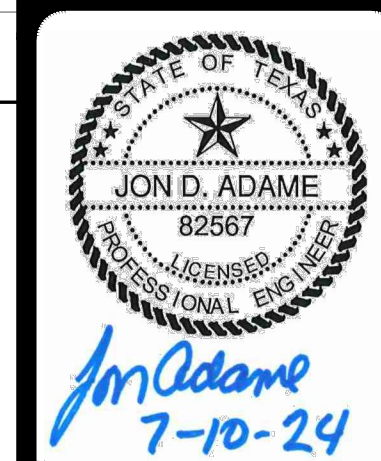
1. CONTRACTOR SHALL INSTALL PERMANENT MANHOLES IN PROPOSED CURBS WHERE CONDUITS CROSS THE ROADWAY (BOTH SIDES).
2. CONDUITS SHALL BE PVC WITH MINIMUM BURY OF 36 INCHES BELOW PROPOSED FINISHED GRADE. SCHEDULE 80 TO BE USED FOR CPVS CONDUITS. ALL OTHER CONDUITS ARE SCHEDULE 40.
3. ALL CONDUITS SHALL BE EXTENDED BEHIND CURBS OR PROPOSED SIDEWALKS A MINIMUM OF 3 FEET AND CAPPED FOR FUTURE USE.
4. ALL CONDUIT SLEEVES TO BE USED FOR ELECTRIC, GAS, OR TELECOMMUNICATION UTILITY CROSSINGS SHALL BE INSTALLED TO MEET OR EXCEED DESIGN REQUIREMENTS FOR THE UTILITY AGENCY WHICH THEY ARE SERVING, INCLUDING BUT NOT LIMITED TO THE DEPTH OF TRENCH PLACEMENT, AND PROXIMITY TO OTHER UTILITIES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING AND INSTALLING THE CONDUIT SLEEVES TO MEET THESE SPECIFICATIONS INCLUDING COORDINATING WITH THE UTILITY AGENCY FOR ANY REQUIRED INSPECTIONS.

TRENCH EXCAVATION SAFETY PROGRAM:

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYER OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROGRAM, SAFETY SYSTEMS, PROGRAMS AND/OR THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION TO EMPLOYEES AND ANY WALKING SURFACE EXPOSURE 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 PROTECTION OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

CAUTION!!

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[illegible]

**PAPE-DAWSON
ENGINEERS**

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028600

SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS
OVERALL UTILITY PLAN

PLAT NO. 24-11800067
JOB NO. 13316-03
DATE JULY 2024
DESIGNER AS
CHECKED AS DRAWN AD
SHEET C6.01

Date: May 21, 2024, 6:06pm User: JD-adame
File: P:\133\16\03\Design\CA\1800-1331603.dwg

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5.00 ACRE TRACT
(TRACT 2)
HILDA TRUCKING COMPANY, LLC
(VOL. 16847, PG. 127 O.P.R.)

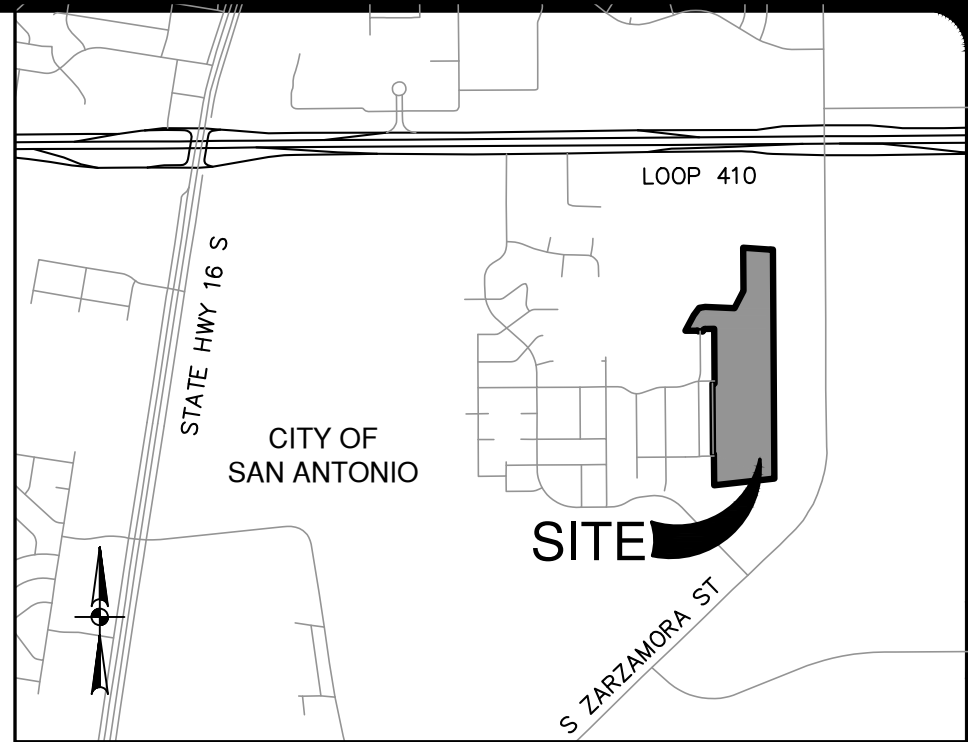
8.000 ACRE TRACT
ARTURO CABALLERO, ET UX
(VOL. 1560, PG. 852 O.P.R.)

2.727 ACRE TRACT
CESAR ADOLPHO PANCORVO
(DOC. NO. 20190154565 O.P.R.)

0.5700 ACRE TRACT
JOSE GUZMAN JR
(NO VESTING DEED OR
DESCRIPTION FOUND)

21.68 ACRE TRACT
SOUTHSTAR AT VERANO
INVESTMENT, LLC
(DOC. NO. 20200290003 O.P.R.)

- KEY LEGEND:
- (A) 10' ELEC. GAS, TELE., & CA. T.V. EASEMENT
 - (B) VARIABLE WIDTH DRAINAGE EASEMENT
 - (C) 30' DRAINAGE EASEMENT
 - (D) 45' DRAINAGE EASEMENT
 - (E) 20' BUILDING SETBACK LINE
 - (F) 35'X80' BUILDING PAD



LOCATION MAP
NOT-TO-SCALE



GRADING LEGEND

PROJECT LIMITS	---
100 YR FLOODPLAIN	---
EXISTING CONTOUR	-976-
PROPOSED CONTOUR	-970-
100 YR FLOODPLAIN	---
FLOW ARROW (EXISTING)	→
FLOW ARROW (PROPOSED)	→
MINIMUM FINISHED FLOOR ELEVATION	FF = XXXX.XX
TREES TO REMAIN	⊗

GRADING NOTES:

- ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THIS SCOPE OF WORK WHERE NOT SPECIFICALLY COVERED IN THE SPECIFICATIONS OR GEOTECHNICAL REPORT SHALL CONFORM TO ALL APPLICABLE CITY, COUNTY AND TxDOT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION).
- SITE PREPARATION, GRADING, EXCAVATION AND FILL SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT AND SPECIFICATIONS.
- ALL SELECT FILL MATERIAL PROVIDED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING AND COMPACTING.
- ALL ELEVATIONS AND PROPOSED CONTOURS SHOWN ON THIS GRADING PLAN REFLECT FINISHED GRADES. THE THICKNESS OF PAVING, BASE, GRASS, TOPSOIL, AND MULCH MUST BE SUBTRACTED TO OBTAIN SUBGRADE ELEVATIONS.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR LIMITS OF DIMENSIONS OR GRADES NECESSARY FOR CONSTRUCTION OF THIS PROJECT.
- THE CONTRACTOR SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT.
- THE CONTRACTOR SHALL REMOVE TOP SOIL, GRASS, ROOTS, DEBRIS, ETC. AND DISPOSE OFF SITE THOSE MATERIALS NOT SUITABLE FOR EMBANKMENT AND TOPSOIL. CLEAN STRIPPINGS AND TOPSOIL MAY BE STOCKPILED ON SITE FOR REUSE IN A LOCATION SPECIFIED BY THE OWNER.
- THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE STABILIZATION. ALL DISTURBED AREAS SHALL BE REVEGETATED IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND TPDES/SWPPP REQUIREMENTS. REFERENCE THE LANDSCAPE ARCHITECT'S PLAN, IF APPLICABLE.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS (USE OF SILT FENCES, ETC.) TO KEEP DRAINAGE AND SILT FROM WASHING ONTO ADJACENT PROPERTY, STREETS, OR DRAINAGE WAYS. CONTRACTOR SHALL IMMEDIATELY REMOVE SILT/DEBRIS WHICH WASHES OFFSITE OR INTO EXISTING STORM DRAIN SYSTEMS. (SEE SWPPP PLANS & TPDES BOOK).
- THE CONTRACTOR SHALL OBTAIN GRADES SHOWN HEREON WITHIN +/- ONE-TENTH (0.10) FOOT.
- IN PROPOSED PAVING AREAS, STREET DESIGN PLANS SHALL CONTROL. ALL EARTHEN SLOPES SHALL BE A MAXIMUM OF 3:1 AND A MINIMUM OF 1:0% UNLESS OTHERWISE SHOWN.
- THE CONTRACTOR SHALL PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING SITE AND PROPOSED IMPROVEMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL, OR BETTER, CONDITION ANY DAMAGE DONE TO EXISTING TREES, BUILDINGS, UTILITIES, FENCES, PAVEMENT, CURBS, OR DRIVEWAYS (NO SEPARATE PAY ITEMS).
- THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN WORKING NEAR UTILITIES, GAS LINES, SEWER, OR EXISTING APPURTENANCES. PRIOR TO PERFORMING ANY EXCAVATION, CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND ASSURE HIMSELF THAT ALL UTILITIES HAVE BEEN ADEQUATELY LOCATED AND IDENTIFIED. THE ENGINEER SHALL BE NOTIFIED IF ANY UTILITY CONFLICTS ARE DISCOVERED.
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- POSITIVE DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE SCOPE OF THE PROJECT. DRAINAGE SHALL BE DIRECTED AWAY FROM ALL BUILDING FOUNDATIONS. CONTRACTOR SHOULD TAKE PRECAUTIONS NOT TO ALLOW ANY PONDING OF WATER.
- FOR FILL PLACEMENT ON HILL SIDES OR STEEP SLOPE AREAS, THE CONTRACTOR SHALL REFERENCE THE PROJECT SPECIFICATIONS AND GEOTECHNICAL REPORT FOR SPECIAL INSTRUCTIONS REGARDING BENCHING.
- NO WORK SHALL BE PERFORMED IN A PUBLIC RIGHT-OF-WAY WITHOUT A PERMIT.

**PAPE-DAWSON
ENGINEERS**

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008800

SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS

OVERALL GRADING PLAN

PLAT NO. 24-11800067
JOB NO. 13316-03
DATE MAY 2024
DESIGNER CB
CHECKED AS DRAWN CB
SHEET C7.00

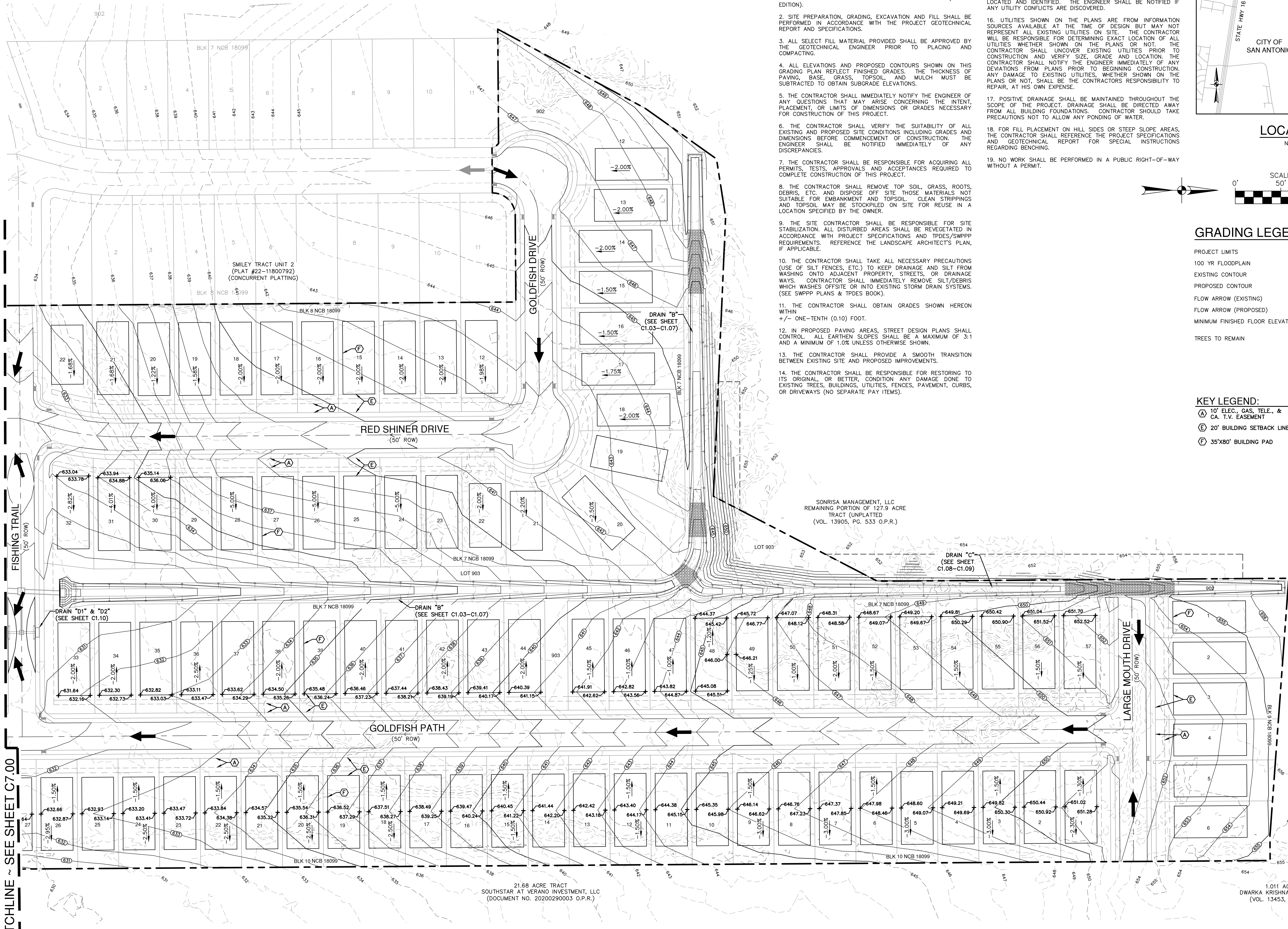
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MATCHLINE ~ SEE SHEET C7.00

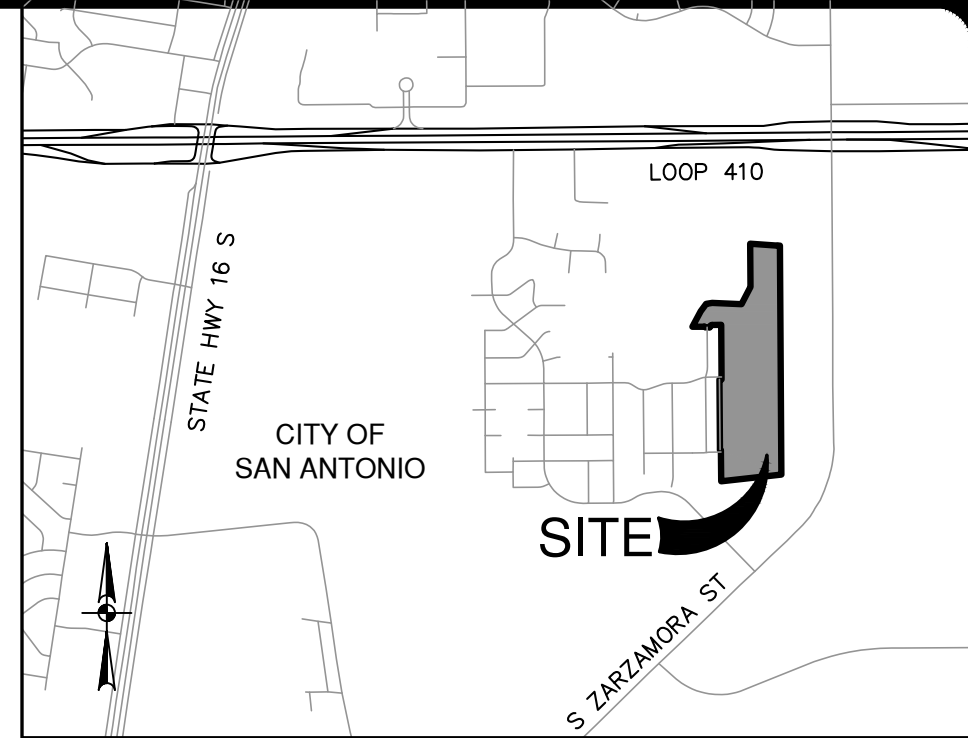
FISHING TRAIL
(50' ROW)

MATCHLINE ~ SEE SHEET C7.00



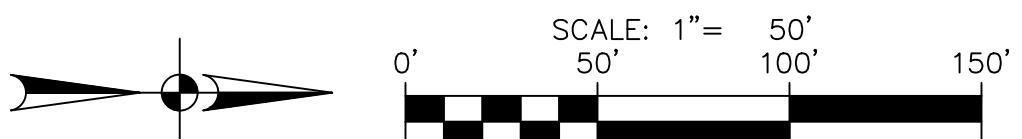
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19. NO WORK SHALL BE PERFORMED IN A PUBLIC RIGHT-OF-WAY WITHOUT A PERMIT.



LOCATION MAP

NOT-TO-SCALE



GRADING LEGEND

PROJECT LIMITS	
100 YR FLOODPLAIN	
EXISTING CONTOUR	
PROPOSED CONTOUR	
FLOW ARROW (EXISTING)	
FLOW ARROW (PROPOSED)	
MINIMUM FINISHED FLOOR ELEVATION	
TREES TO REMAIN	

KEY LEGEND:

- (A) 10' ELEC., GAS, TELE., & CA. T.V. EASEMENT
- (E) 20' BUILDING SETBACK LINE
- (F) 35'X80' BUILDING PAD

SONRISA MANAGEMENT, LLC
REMAINING PORTION OF 127.9 ACRE
TRACT (UNPLATTED
(VOL. 13905, PG. 533 O.P.R.)

DRAIN "C"
(SEE SHEET
C1.08-C1.09)

SONRISA MANAGEMENT, LLC
REMAINING PORTION OF 127.9 ACRE
TRACT (UNPLATTED
(VOL. 13905, PG. 533 O.P.R.)

1.011 ACRE TRACT
DWARKA KRISHNA ADDEPALLI, ET AL
(VOL. 13453, PG. 356 O.P.R.)

PAPE-DAWSON
ENGINEERS

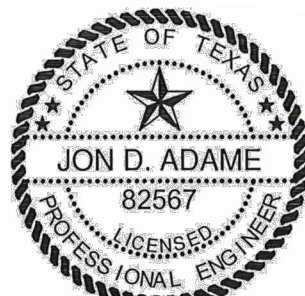
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028600

SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS

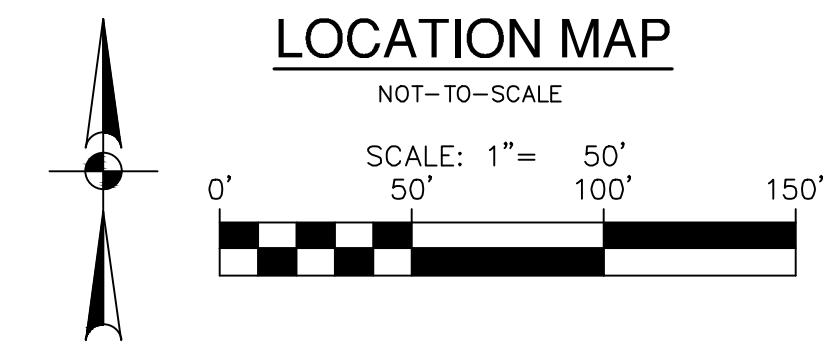
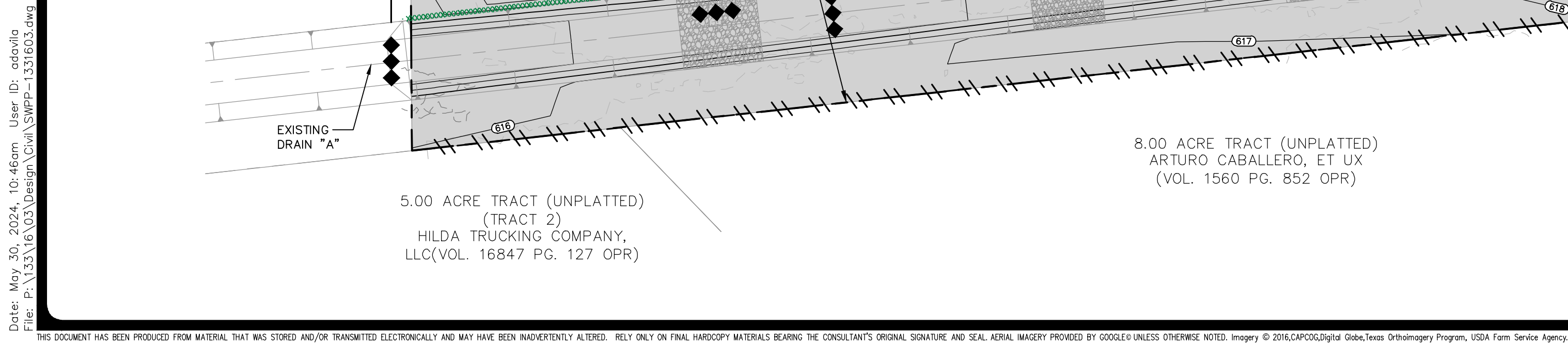
OVERALL GRADING PLAN

PLAT NO.	24-11800067
JOB NO.	13316-03
DATE	JULY 2024
DESIGNER	CB
CHECKED	AS
DRAWN	CB
SHEET	C7.01

DATE	
NO.	
REVISION	



Jon Adame
11-20-24



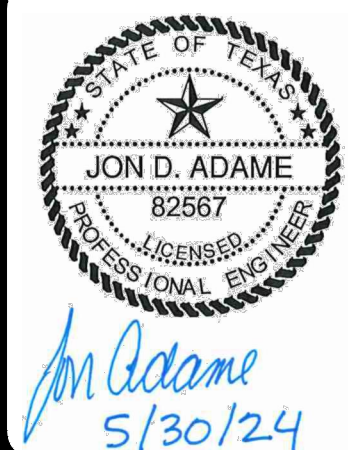
PROJECT LIMITS	
EXISTING CONTOUR	
PROPOSED CONTOUR	
FLOW ARROW (EXISTING)	
FLOW ARROW (PROPOSED)	
SILT FENCE (STAGE I)	
SILT FENCE (STAGE II)	
ROCK BERM (TO BE REMOVED POST CONSTRUCTION)	
ROCK DAM	
GRAVEL FILTER BAGS	
EARTHEN BERM W/POLYMER AND SPILLWAY (BERMS ARE TO SPAN ACROSS PROPOSED STREET SECTION APPROX. 28-40 FEET WIDE FROM CURB TO CURB)	
GRATE INLET PROTECTION	
LIMITS OF DISTURBED AREA	
STABILIZED CONSTRUCTION ENTRANCE/EXIT (FIELD LOCATE)	
CONSTRUCTION EQUIPMENT, VEHICLE & MATERIALS STORAGE AREA (FIELD LOCATE)	
CONCRETE TRUCK WASH-OUT PIT (FIELD LOCATE)	

1. DO NOT DISTURB VEGETATED AREAS (TREES, GRASS, WEEDS, BUSH, ETC.) ANY MORE THAN NECESSARY FOR CONSTRUCTION.
2. CONSTRUCTION ENTRANCE/EXIT LOCATION, CONCRETE WASH-OUT PIT, AND CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD TO BE DETERMINED IN THE FIELD.
3. STORM WATER POLLUTION PREVENTION CONTROLS MAY NEED TO BE MODIFIED IN THE FIELD TO ACCOMPLISH THE DESIRED EFFECT. ALL MODIFICATIONS ARE TO BE NOTED ON THIS EXHIBIT AND SIGNED AND DATED BY THE RESPONSIBLE PARTY.
4. RESTRICT ENTRY/EXIT TO THE PROJECT SITE TO DESIGNATED LOCATIONS BY USE OF ADEQUATE FENCING, IF NECESSARY.
5. ALL STORM WATER POLLUTION PREVENTION CONTROLS ARE TO BE MAINTAINED AND IN WORKING CONDITIONS AT ALL TIMES.
6. FOR A COMPLETE LISTING OF TEMPORARY STORM WATER POLLUTION PREVENTION CONTROLS REFER TO THE TPDES STORM WATER POLLUTION PREVENTION PLAN.
7. STORM WATER POLLUTION PREVENTION STRUCTURES SHOULD BE CONSTRUCTED WITHIN THE SITE BOUNDARIES. SOME OF THESE FEATURES MAY BE SHOWN OUTSIDE THE SITE BOUNDARIES ON THIS PLAN FOR VISUAL CLARITY.
8. AS SOON AS PRACTICAL, ALL DISTURBED SOIL THAT WILL NOT BE COVERED BY IMPERVIOUS COVER SUCH AS PARKWAY AREAS, EASEMENTS, DRIVEWAYS, EMBANKMENT SLOPES, ETC. WILL BE STABILIZED PER APPLICABLE PROJECT SPECIFICATIONS.
9. BEST MANAGEMENT PRACTICES MAY BE ESTABLISHED IN STAGES TO COINCIDE WITH THE DISTURBANCE OF UPGRADIENT AREAS.
10. BEST MANAGEMENT PRACTICES MAY BE REMOVED IN STAGES ONCE THE WATERSHED FOR THAT PORTION CONTROLLED BY THE BEST MANAGEMENT PRACTICES HAS BEEN STABILIZED IN ACCORDANCE WITH TPDES REQUIREMENTS.
11. UPON COMPLETION OF THE PROJECT, INCLUDING SITE STABILIZATION, AND BEFORE FINAL PAYMENT IS ISSUED, CONTRACTOR SHALL REMOVE ALL SEDIMENT AND EROSION CONTROL MEASURES, PAYING SPECIAL ATTENTION TO ROCK BERMS IN DRAINAGE FEATURES.
12. WHERE VEGETATED FIELD STRIPS ARE INDICATED, CONTRACTOR SHALL VERIFY THAT SUFFICIENT VEGETATION EXISTS, OTHERWISE CONTRACTOR SHALL PLACE SILT FENCING IN LIEU OF VEGETATED FIELD STRIP.
13. SHADED AREA DENOTES LIMITS OF DISTURBED AREAS. OTHER THAN CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD, ARE NOT A PART OF THIS TPDES STORM WATER POLLUTION PREVENTION PLAN (SWP3) AND WILL NOT BE DISTURBED BY CIVIL CONSTRUCTION ACTIVITIES. HOUSES AND EXISTING ACTIVE LOTS WILL REQUIRE A SEPARATE STORM WATER POLLUTION PREVENTION PLAN.
14. CPS ENERGY WILL FUNCTION AS A SECONDARY OPERATOR ON THIS PROJECT. CPS WILL BE INSTALLING ELECTRIC UTILITIES FOR ON-SITE CONSTRUCTION AND OFF-SITE FEED TO THE PROJECT.

[illegible]

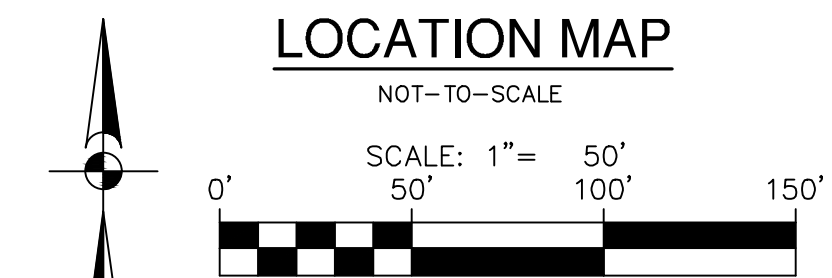
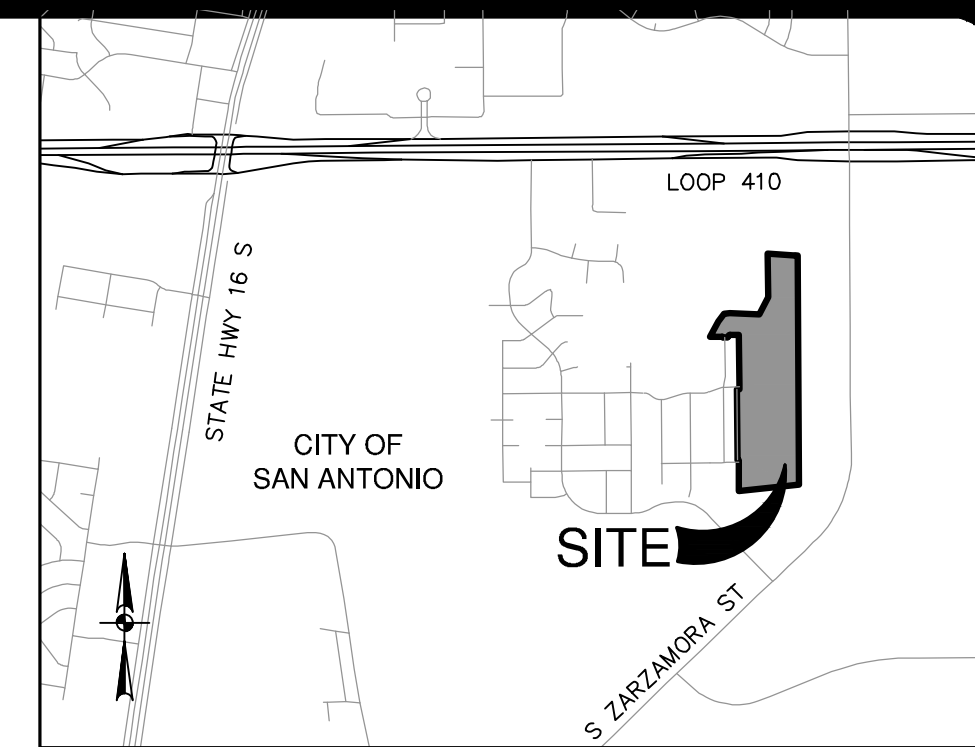
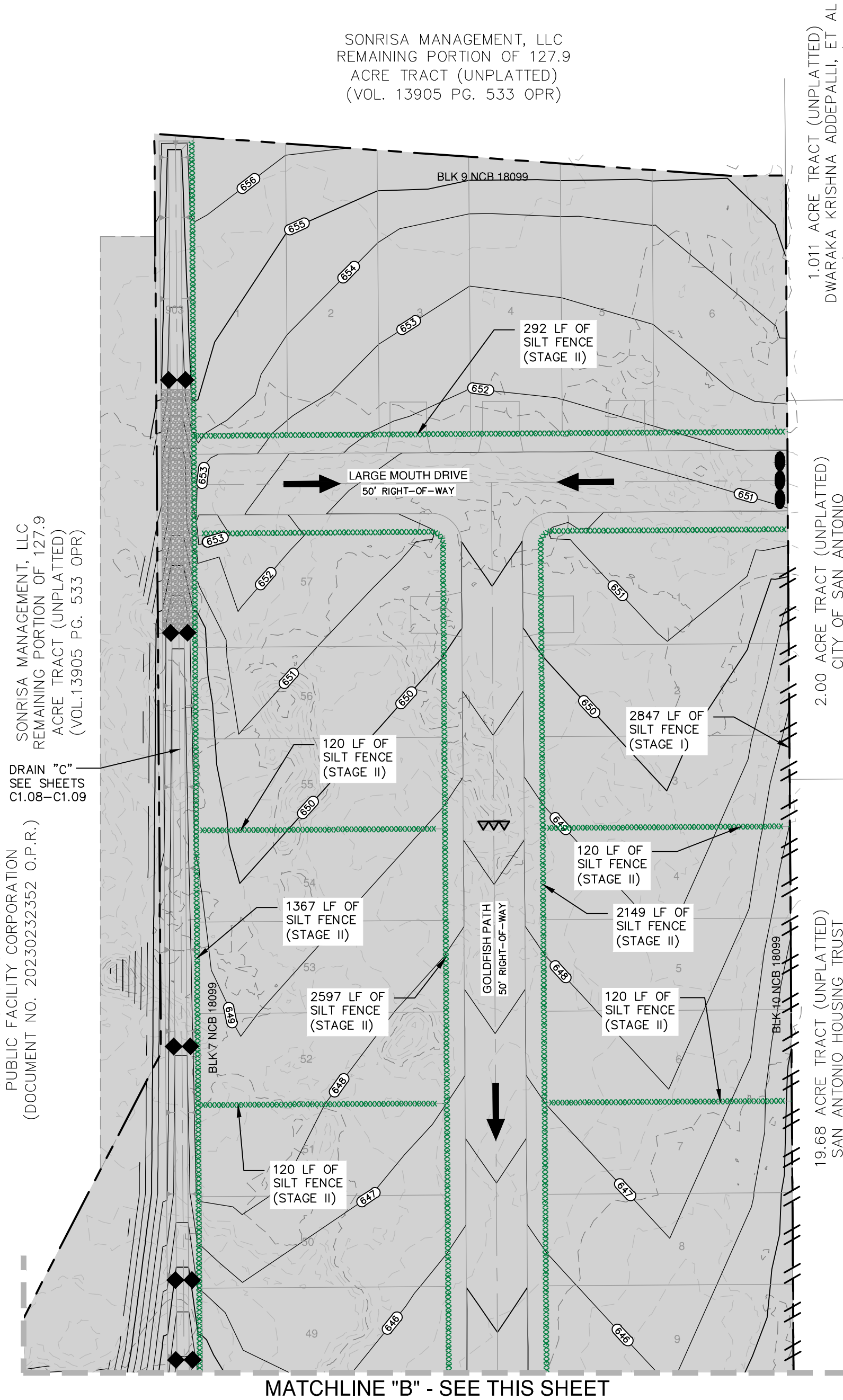
THIS SHEET HAS BEEN PREPARED FOR PURPOSES OF THE SWP3 ONLY. ALL OTHER CIVIL ENGINEERING RELATED INFORMATION SHOULD BE ACQUIRED FROM THE APPROPRIATE SHEET IN THE CIVIL IMPROVEMENT PLANS.

PLAT NO. 24-11800067
JOB NO. 13316-03
DATE MAY 2024
DESIGNER AS
CHECKED JW DRAWN GP
SHEET C8.00



**PAPE-DAWSON
ENGINEERS**
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028600

SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS

[illegible]

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2. CONSTRUCTION ENTRANCE/EXIT LOCATION, CONCRETE WASH-OUT PIT AND CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD TO BE DETERMINED IN THE FIELD.
3. STORM WATER POLLUTION PREVENTION CONTROLS MAY NEED TO BE MODIFIED IN THE FIELD TO ACCOMPLISH THE DESIRED EFFECT. ALL MODIFICATIONS ARE TO BE NOTED ON THIS EXHIBIT AND SIGNED AND DATED BY THE RESPONSIBLE PARTY.
4. RESTRICT ENTRY/EXIT TO THE PROJECT SITE TO DESIGNATED LOCATIONS BY USE OF ADEQUATE FENCING, IF NECESSARY.
5. ALL STORM WATER POLLUTION PREVENTION CONTROLS ARE TO BE MAINTAINED AND IN WORKING CONDITIONS AT ALL TIMES.
6. FOR A COMPLETE LISTING OF TEMPORARY STORM WATER POLLUTION PREVENTION CONTROLS REFER TO THE TPDES STORM WATER POLLUTION PREVENTION PLAN.
7. STORM WATER POLLUTION PREVENTION STRUCTURES SHOULD BE CONSTRUCTED WITHIN THE SITE BOUNDARIES. SOME OF THESE FEATURES MAY BE SHOWN OUTSIDE THE SITE BOUNDARIES ON THIS PLAN FOR VISUAL CLARITY.
8. AS SOON AS PRACTICAL, ALL DISTURBED SOIL THAT WILL NOT BE COVERED BY IMPERVIOUS COVER SUCH AS PARKWAY AREAS, EASEMENTS, DRIVEWAYS, DRIVEWAYS, ETC. WILL BE STABILIZED PER APPLICABLE PROJECT SPECIFICATIONS.
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12. WHERE VEGETATED FILTER STRIPS ARE INDICATED, CONTRACTOR SHALL VERIFY THAT SUFFICIENT VEGETATION EXISTS, OTHERWISE CONTRACTOR SHALL PLANT SILT FENCING IN LIEU OF VEGETATED FILTER STRIP.
13. SHADED AREA [] DENOTES LIMITS OF DISTURBED AREAS. OTHER THAN THE PROJECT LIMITS, WITH THE EXCEPTION OF THE CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD, ARE NOT A PART OF THIS TPDES STORM WATER POLLUTION PREVENTION PLAN (SWP3) AND WILL NOT BE DISTURBED BY CIVIL CONSTRUCTION ACTIVITIES. HOUSEHOLD AND COMMERCIAL ACTIVITIES WILL REQUIRE A SEPARATE STORM WATER POLLUTION PREVENTION PLAN.
14. CPS ENERGY WILL FUNCTION AS A SECONDARY OPERATOR ON THIS PROJECT. CPS WILL BE INSTALLING ELECTRIC UTILITIES FOR ON-SITE CONSTRUCTION AND OFF-SITE FEED TO THE PROJECT.

[illegible]

THE ENGINEERING SEAL HAS BEEN AFFIXED TO THIS SHEET ONLY FOR THE PURPOSE OF DEMONSTRATING COMPLIANCE WITH THE TPDES-STORM WATER POLLUTION PREVENTION PLAN (SWP3) REGULATIONS.

THIS SHEET HAS BEEN PREPARED FOR PURPOSES OF THE SWP3 ONLY. ALL OTHER CIVIL ENGINEERING RELATED INFORMATION SHOULD BE ACQUIRED FROM THE APPROPRIATE SHEET IN THE CIVIL IMPROVEMENT PLANS.

PLAT NO. 24-11800067
JOB NO. 13316-03
DATE MAY 2024
DESIGNER AS
CHECKED JW DRAWN GP
SHEET C8.01

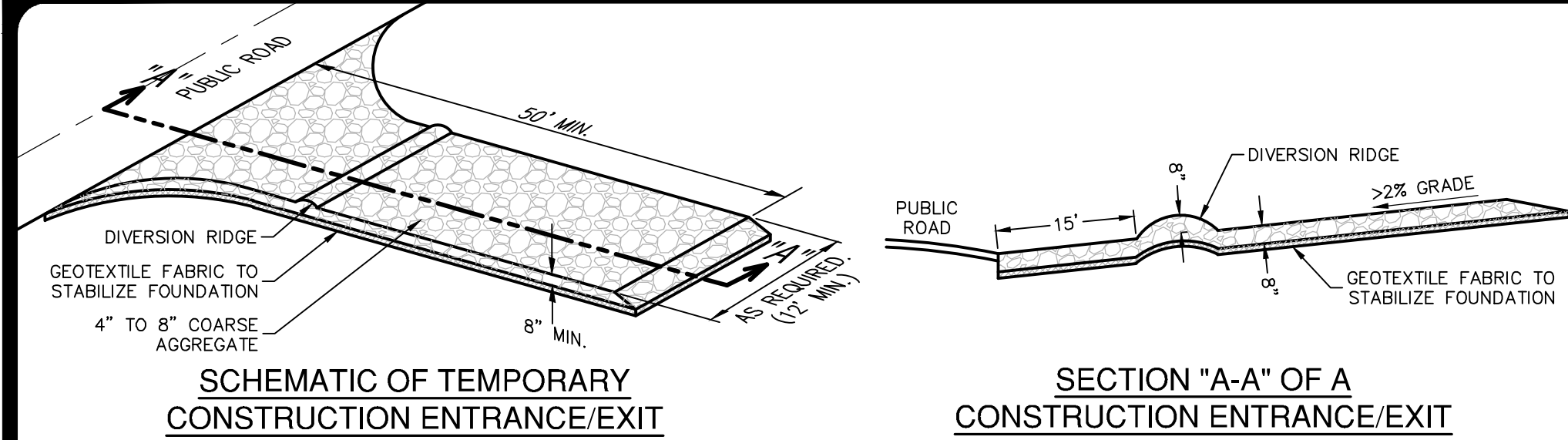


**PAPE-DAWSON
ENGINEERS**

SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS

NO.	REVISION	DATE

STATE OF TEXAS
★ ★ ★
JON D. ADAME
82567
LICENSED
PROFESSIONAL ENGINEER
Jon Adame
5/30/24

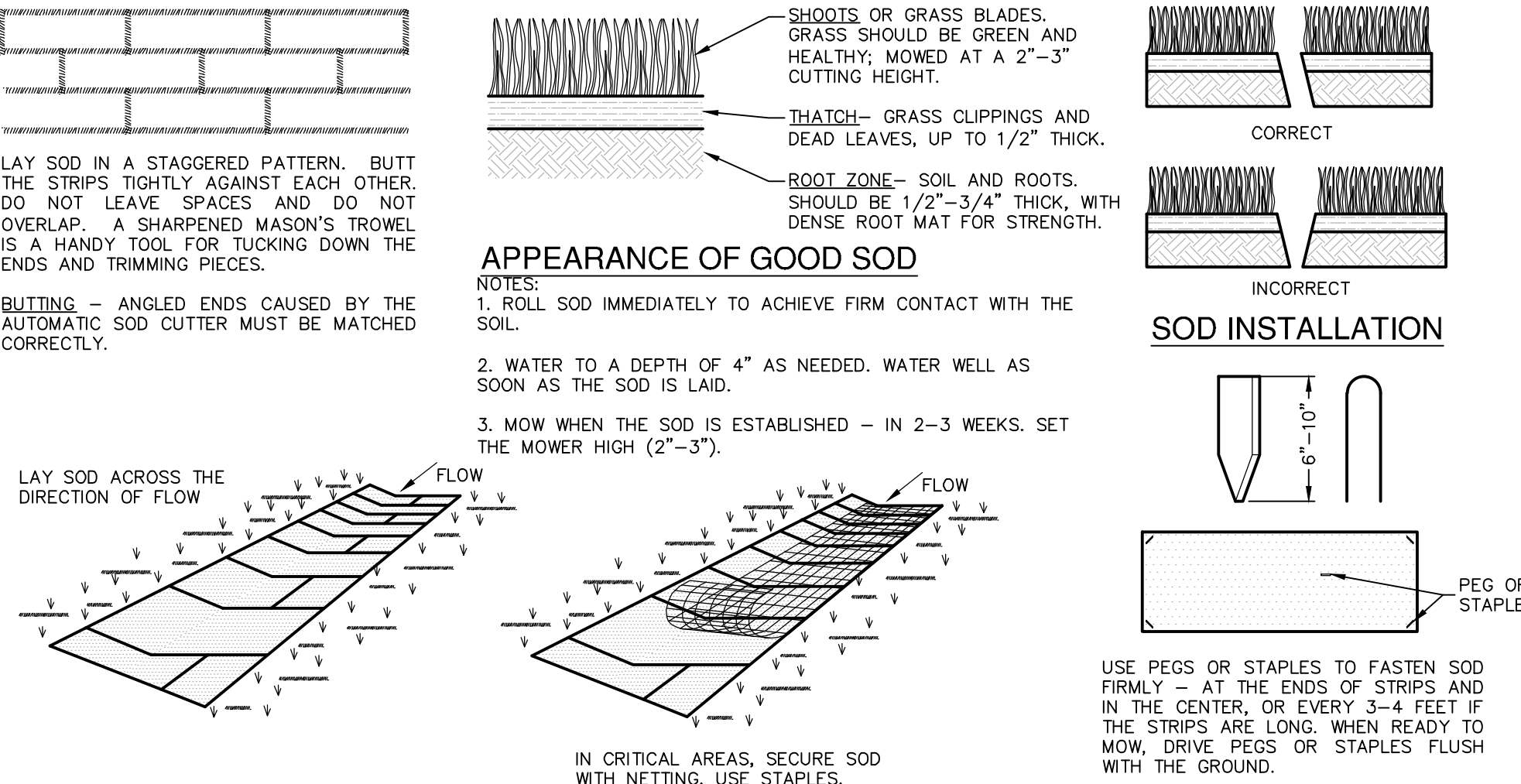


- MATERIALS**
1. THE AGGREGATE SHOULD CONSIST OF 4-INCH TO 8-INCH WASHED STONE OVER A STABLE FOUNDATION AS SPECIFIED IN THE PLAN.
 2. THE AGGREGATE SHOULD BE PLACED WITH A MINIMUM THICKNESS OF 8-INCHES.
 3. THE GEOTEXTILE FABRIC SHOULD BE DESIGNED SPECIFICALLY FOR USE AS A SOIL FILTRATION MEDIA WITH AN APPROXIMATE WEIGHT OF 6 OZ/YD², A MULLEN BURST RATING OF 140 LB/IN², AND AN EQUIVALENT OPENING SIZE GREATER THAN A NUMBER 50 SIEVE.
 4. IF A WASHING FACILITY IS REQUIRED, A LEVEL AREA WITH A MINIMUM OF 4-INCH DIAMETER WASHED STONE OR COMMERCIAL ROCK SHOULD BE INCLUDED IN THE PLANS. DIVERT WASTEWATER TO A SEDIMENT TRAP OR BASIN.

- INSTALLATION**
1. AVOID CURVES ON PUBLIC ROADS AND STEEP SLOPES. REMOVE VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA. GRADE CROWN FOUNDATION FOR POSITIVE DRAINAGE.
 2. THE MINIMUM WIDTH OF THE ENTRANCE/EXIT SHOULD BE 12 FEET OR THE FULL WIDTH OF EXIT ROADWAY, WHICHEVER IS GREATER.
 3. THE CONSTRUCTION ENTRANCE SHOULD BE AT LEAST 50 FEET LONG.
 4. IF THE SLOPE TOWARD THE ROAD EXCEEDS 2%, CONSTRUCT A RIDGE, 6-INCHES TO 8-INCHES HIGH WITH 3:1 (H:V) SIDE SLOPES, ACROSS THE FOUNDATION APPROXIMATELY 15 FEET FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM THE PUBLIC ROAD.
 5. PLACE GEOTEXTILE FABRIC AND GRADE FOUNDATION TO IMPROVE STABILITY, ESPECIALLY WHERE WET CONDITIONS ARE ANTICIPATED.
 6. PLACE STONE TO DIMENSIONS AND GRADE SHOWN ON PLANS. LEAVE SURFACE SMOOTH AND SLOPE FOR DRAINAGE.
 7. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN.
 8. INSTALL PIPE UNDER PAD AS NEEDED TO MAINTAIN PROPER PUBLIC ROAD DRAINAGE.

STABILIZED CONSTRUCTION ENTRANCE/EXIT DETAIL

NOT-TO-SCALE



- MATERIALS**
1. SOD SHOULD BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4" INCH (± 1/4" INCH) AT THE TIME OF CUTTING. THIS THICKNESS SHOULD EXCLUDE SHOOT GROWTH AND TATCH.
 2. PIECES OF SOD SHOULD BE CUT TO THE SUPPLIER'S STANDARD WIDTH AND LENGTH, WITH A MAXIMUM ALLOWABLE DEVIATION IN ANY DIMENSION OF 5%. TORN OR UNEVEN PADS SHOULD NOT BE ACCEPTABLE.
 3. STANDARD SIZE SECTIONS OF SOD SHOULD BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED FROM A FIRM GRASP ON ONE END OF THE SECTION.
 4. SOD SHOULD BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS.

- SITE PREPARATION**
1. PRIOR TO SOIL PREPARATION, AREAS TO BE SODDED SHOULD BE BROUGHT TO FINAL GRADE IN ACCORDANCE WITH THE APPROVED PLAN.
 2. THE SURFACE SHOULD BE CLEARED OF ALL TRASH, DEBRIS AND OF ALL ROOTS, BRUSH, WIRE, GRADE STAKES AND OTHER OBJECTS THAT WOULD INTERFERE WITH PLANTING, FERTILIZING OR MAINTENANCE OPERATIONS.
 3. FERTILIZE ACCORDING TO SOIL TESTS. FERTILIZER NEEDS CAN BE DETERMINED BY A SOIL TESTING LABORATORY OR REGIONAL RECOMMENDATIONS CAN BE MADE BY COUNTY AGRICULTURAL EXTENSION AGENTS. FERTILIZER SHOULD BE WORKED INTO THE SOIL TO A DEPTH OF 3 INCHES WITH A DISC, SPRINGTOOTH HARROW OR OTHER SUITABLE EQUIPMENT. ON SLOPING LAND, THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE CONTOUR.

INSTALLATION IN CHANNELS

1. SOD STRIPS IN WATERWAYS SHOULD BE LAID PERPENDICULAR TO THE DIRECTION OF FLOW. CARE SHOULD BE TAKEN TO BUTT ENDS OF STRIPS TIGHTLY (SEE FIGURE ABOVE).
2. AFTER ROLLING OR TAMPING, SOD SHOULD BE PEGGED OR STAPLED TO RESIST WASHOUT DURING THE ESTABLISHMENT PERIOD. MESH OR OTHER NETTING MAY BE PEGGED OVER THE SOD FOR EXTRA PROTECTION IN CRITICAL AREAS.

SOD INSTALLATION DETAIL

NOT-TO-SCALE

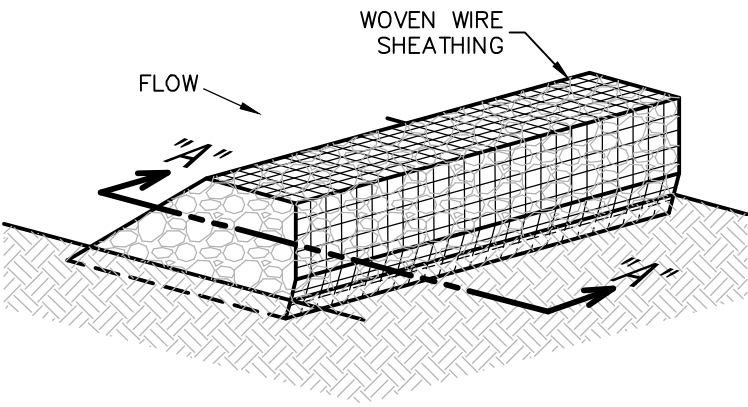
COMMON TROUBLE POINTS

1. INADEQUATE RUNOFF CONTROL-SEDIMENT WASHES ONTO PUBLIC ROAD.
2. STONE TOO SMALL OR GEOTEXTILE FABRIC ABSENT, RESULTS IN MUDDY CONDITION AS STONE IS PRESSED INTO SOIL.
3. PAD TOO SHORT FOR HEAVY CONSTRUCTION TRAFFIC-EXTEND PAD BEYOND THE MINIMUM 50-FOOT LENGTH AS NECESSARY.
4. PAD NOT FLARED SUFFICIENTLY AT ROAD SURFACE, RESULTS IN MUD BEING TRACKED ON TO ROAD AND POSSIBLE DAMAGE TO ROAD.

5. UNSTABLE FOUNDATION - USE GEOTEXTILE FABRIC UNDER PAD AND/OR IMPROVE FOUNDATION DRAINAGE.

INSPECTION AND MAINTENANCE GUIDELINES

1. 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.
2. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY SHOULD BE REMOVED IMMEDIATELY BY CONTRACTOR.
3. WHEN NECESSARY, WHEELS SHOULD BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
4. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
5. ALL SEDIMENT SHOULD BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATER COURSE BY USING APPROVED METHODS.



ISOMETRIC PLAN VIEW

ROCK BERMS

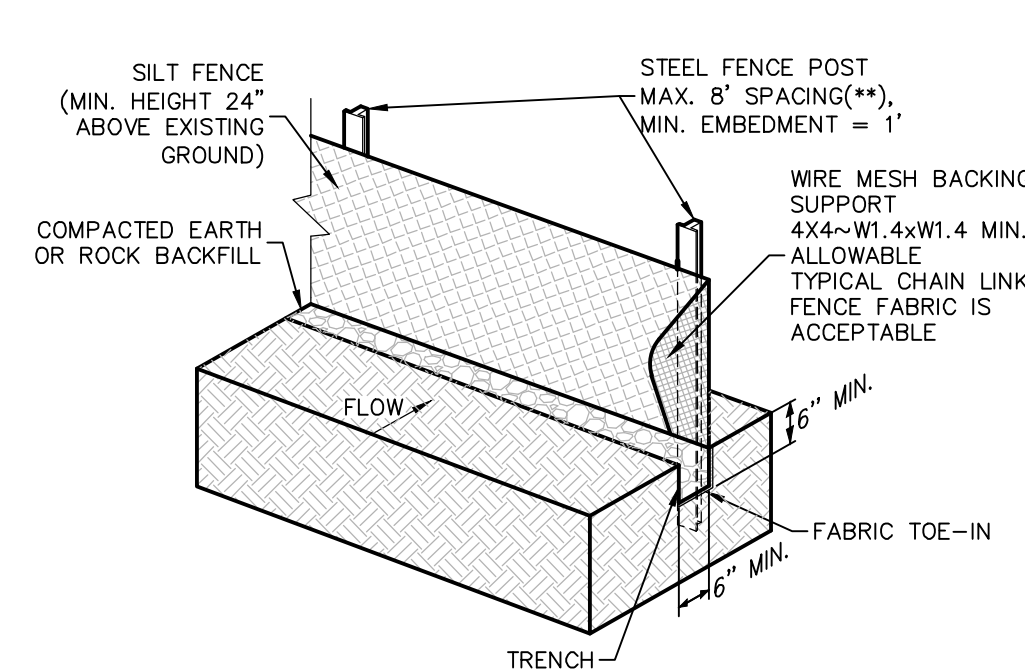
THE PURPOSE OF A ROCK BERM IS TO SERVE AS A CHECK DAM IN AREAS OF CONCENTRATED FLOW, TO INTERCEPT SEDIMENT-LADEN RUNOFF, DETAIN THE SEDIMENT AND RELEASE THE WATER IN SHEET FLOW. THE ROCK BERM SHOULD BE USED WHEN THE CONTRIBUTING DRAINAGE AREA IS LESS THAN 5 ACRES. ROCK BERMS ARE USED IN AREAS WHERE THE VOLUME OF RUNOFF IS TOO GREAT FOR A SILT FENCE TO CONTAIN. THEY ARE LESS EFFECTIVE FOR SEDIMENT REMOVAL THAN SILT FENCES, PARTICULARLY FOR FINE PARTICLES, BUT ARE ABLE TO WITHSTAND HIGHER FLOWS THAN A SILT FENCE. AS SUCH, ROCK BERMS ARE OFTEN USED IN AREAS OF CHANNEL FLOWS (DITCHES, GULLIES, ETC.). ROCK BERMS ARE MOST EFFECTIVE AT REDUCING BED LOAD IN CHANNELS AND SHOULD NOT BE SUBSTITUTED FOR OTHER EROSION AND SEDIMENT CONTROL MEASURES FARTHER UP THE WATERSHED.

INSPECTION AND MAINTENANCE GUIDELINES

1. INSPECTION SHOULD BE MADE WEEKLY BY THE RESPONSIBLE PARTY. FOR INSTALLATIONS IN STREAMBEDS, ADDITIONAL DAILY INSPECTIONS SHOULD BE MADE.
2. REMOVE SEDIMENT AND OTHER DEBRIS WHEN BUILDUP REACHES 6 INCHES AND DISPOSE OF THE ACCUMULATED SILT IN AN APPROVED MANNER THAT WILL NOT CAUSE ANY ADDITIONAL SILTATION.
3. REPAIR ANY LOOSE WIRE SHEATHING.
4. THE BERM SHOULD BE RESHAPED AS NEEDED DURING INSPECTION.
5. 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.
6. THE ROCK BERM SHOULD BE LEFT IN PLACE UNTIL ALL UPSTREAM AREAS ARE STABILIZED AND ACCUMULATED SILT REMOVED.

ROCK BERM DETAIL

NOT-TO-SCALE



ISOMETRIC PLAN VIEW

SILT FENCE

A SILT FENCE IS A BARRIER CONSISTING OF GEOTEXTILE FABRIC SUPPORTED BY METAL POSTS TO PREVENT SOIL AND SEDIMENT LOSS FROM A SITE. WHEN PROPERLY USED, SILT FENCES CAN BE HIGHLY EFFECTIVE AT CONTROLLING SEDIMENT FROM DISTURBED AREAS. THEY CAUSE RUNOFF TO POND, ALLOWING HEAVIER SOLIDS TO SETTLE OUT. IF NOT PROPERLY INSTALLED, SILT FENCES ARE NOT LIKELY TO BE EFFECTIVE.

THE PURPOSE OF A SILT FENCE IS TO INTERCEPT AND DETAIN WATER-BORN SEDIMENT FROM UNPROTECTED AREAS OF A LIMITED EXTENT. SILT FENCE IS USED DURING THE PERIOD OF CONSTRUCTION NEAR THE PERIMETER OF A DISTURBED AREA TO INTERCEPT SEDIMENT WHILE ALLOWING WATER TO PERCOLATE THROUGH. THIS FENCE SHOULD REMAIN IN PLACE UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED. SILT FENCE SHOULD NOT BE USED WHERE THERE IS A CONCENTRATION OF WATER IN A CHANNEL OR DRAINAGE WAY. IF CONCENTRATED FLOW OCCURS AFTER INSTALLATION, CORRECTIVE ACTION MUST BE TAKEN SUCH AS PLACING A ROCK BERM IN THE AREAS OF CONCENTRATED FLOW.

SILT FENCING WITHIN THE SITE MAY BE TEMPORARILY MOVED DURING THE DAY TO ALLOW CONSTRUCTION ACTIVITY PROVIDED IT IS REPLACED AND PROPERLY ANCHORED TO THE GROUND AT THE END OF THE DAY. SILT FENCES ON THE PERIMETER OF THE SITE OR AROUND DRAINAGE WAYS SHOULD NOT BE MOVED AT ANY TIME.

MATERIALS

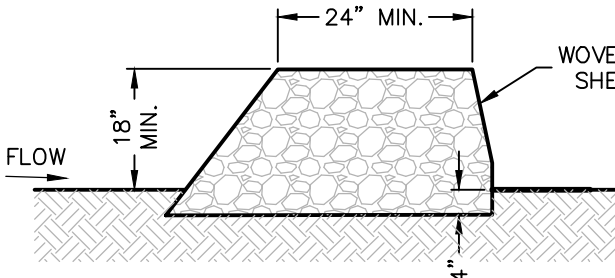
1. SILT FENCE MATERIAL SHOULD BE POLYPROPYLENE, POLYETHYLENE, OR POLYAMIDE WOVEN OR NONWOVEN FABRIC. THE FABRIC SHOULD BE 36 INCHES, WITH A MINIMUM UNIT WEIGHT OF 4.5 OZ/YD, MULLEN BURST STRENGTH EXCEEDING 190 LB/IN², ULTRAVIOLET STABILITY EXCEEDING 70%, AND MINIMUM APPARENT OPENING SIZE OF U.S. SIEVE NUMBER 30.
2. FENCE POSTS SHOULD BE MADE OF HOT ROLLED STEEL, AT LEAST 4 FEET LONG WITH TEE OR Y-BAR CROSS SECTION, SURFACE PAINTED OR GALVANIZED, MINIMUM WEIGHT 1.25 LB/FT, AND BRINELL HARDNESS EXCEEDING 140.
3. WOVEN WIRE BACKING TO SUPPORT THE FABRIC SHOULD BE GALVANIZED 2" X 4" WELDED WIRE, 12 GAUGE MINIMUM.

INSTALLATION

1. STEEL POSTS, WHICH SUPPORT THE SILT FENCE, SHOULD BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POSTS MUST BE EMBEDDED A MINIMUM OF 1-FOOT DEEP AND SPACED NOT MORE THAN 8 FEET ON CENTER, WHERE WATER CONCENTRATES, THE MAXIMUM SPACING SHOULD BE 6 FEET.
2. 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 ¼ ACRE/100 FEET OF FENCE.

SILT FENCE DETAIL

NOT-TO-SCALE



SECTION "A-A"

MATERIALS

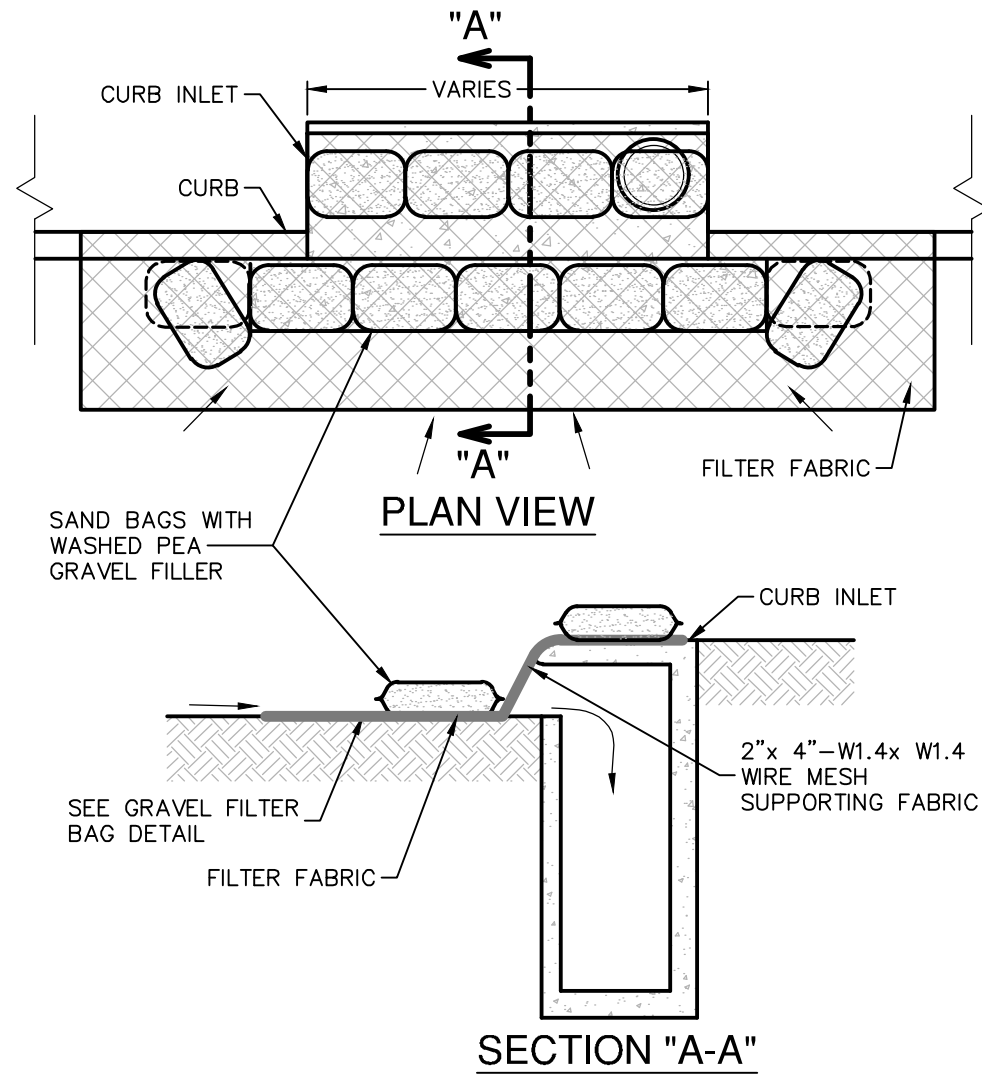
1. THE BERM STRUCTURE SHOULD BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM OPENING OF 1 INCH AND A MINIMUM WIRE DIAMETER OF 20 GAUGE GALVANIZED AND SHOULD BE SECURED WITH SHOAT RINGS.
2. CLEAN, OPEN GRADED 3-INCH TO 5-INCH DIAMETER ROCK SHOULD BE USED, EXCEPT IN AREAS WHERE HIGH VELOCITIES OR LARGE VOLUMES OF FLOW ARE EXPECTED, WHERE 5-INCH TO 8-INCH DIAMETER ROCKS MAY BE USED.

INSTALLATION

1. LAY OUT THE WOVEN WIRE SHEATHING PERPENDICULAR TO THE FLOW LINE. THE SHEATHING SHOULD BE 20 GAUGE WOVEN WIRE MESH WITH 1 INCH OPENINGS.
2. BERM SHOULD HAVE A TOP WIDTH OF 2 FEET MINIMUM WITH SIDE SLOPES BEING 2:1 (H:V) OR FLATTER.
3. PLACE THE ROCK ALONG THE SHEATHING AS SHOWN IN THE DIAGRAM TO A HEIGHT NOT LESS THAN 18".
4. 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.
5. BERM SHOULD BE BUILT ALONG THE CONTOUR AT ZERO PERCENT GRADE OR AS NEAR AS POSSIBLE.
6. 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.

COMMON TROUBLE POINTS

1. INSUFFICIENT BERM HEIGHT OR LENGTH (RUNOFF QUICKLY ESCAPES OVER THE TOP OR AROUND THE SIDES OF BERM).
2. BERM NOT INSTALLED PERPENDICULAR TO FLOW LINE (RUNOFF ESCAPING AROUND ONE SIDE).

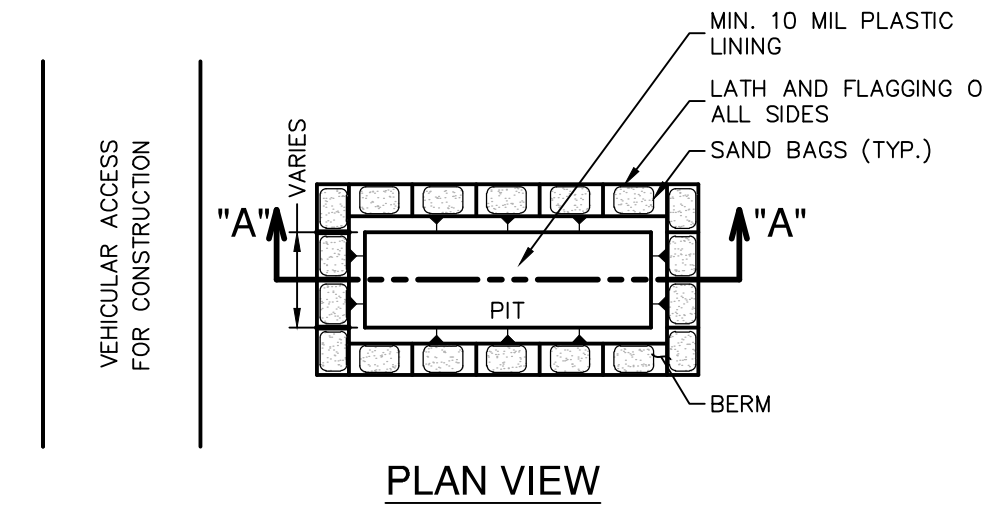


GENERAL NOTES

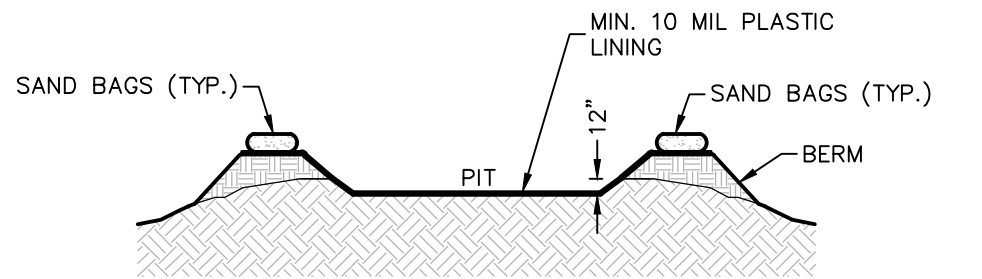
1. CONTRACTOR TO INSTALL 2"x4"-W1.4xW1.4 WIRE MESH SUPPORTING FILTER FABRIC OVER THE INLET OPENING. FABRIC MUST BE SECURED TO WIRE BACKING WITH CUPS OR WIRE TIES AT THIS LOCATION. SAND BAGS FILLED WITH WASHED PEA GRAVEL SHOULD BE PLACED ON TOP OF WIRE MESH ON TOP OF THE INLET AS SHOWN ON THIS DETAIL TO HOLD WIRE MESH IN PLACE. SANDBAGS FILLED WITH WASHED PEA GRAVEL SHOULD ALSO BE PLACED ALONG THE GUTTER AS SHOWN ON THIS DETAIL TO HOLD WIRE MESH IN PLACE. SAND BAGS TO BE STACKED TO FORM A CONTINUOUS BARRIER AROUND INLETS.
2. THE BAGS SHOULD BE TIGHTLY ABUTTED AGAINST EACH OTHER TO PREVENT RUNOFF FROM FLOWING BETWEEN THE BAGS.
3. CHECK PLACEMENT OF DEVICE TO PREVENT GAPS BETWEEN DEVICE AND CURB.
4. INSPECT FILTER FABRIC AND PATCH OR REPLACE IF TORN OR MISSING.
5. STRUCTURES SHOULD BE REMOVED AND THE AREA STABILIZED ONLY AFTER THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

BAGGED GRAVEL CURB INLET PROTECTION DETAIL

NOT-TO-SCALE



PLAN VIEW



SECTION "A-A"

GENERAL NOTES

1. DETAIL ABOVE ILLUSTRATES MINIMUM DIMENSIONS. PIT CAN BE INCREASED IN SIZE DEPENDING ON EXPECTED FREQUENCY OF USE.
2. WASHOUT PIT SHALL BE LOCATED IN AN AREA EASILY ACCESSIBLE TO CONSTRUCTION TRAFFIC.
3. WASHOUT PIT SHALL NOT BE LOCATED IN AREAS SUBJECT TO INUNDATION FROM STORM WATER RUNOFF.
4. LOCATE WASHOUT AREA AT LEAST 50 FEET FROM SENSITIVE FEATURES, STORM DRAINS, OPEN DITCHES OR WATER BODIES.
5. TEMPORARY CONCRETE WASHOUT FACILITY SHOULD BE CONSTRUCTED WITH SUFFICIENT QUANTITY AND VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.

MATERIALS

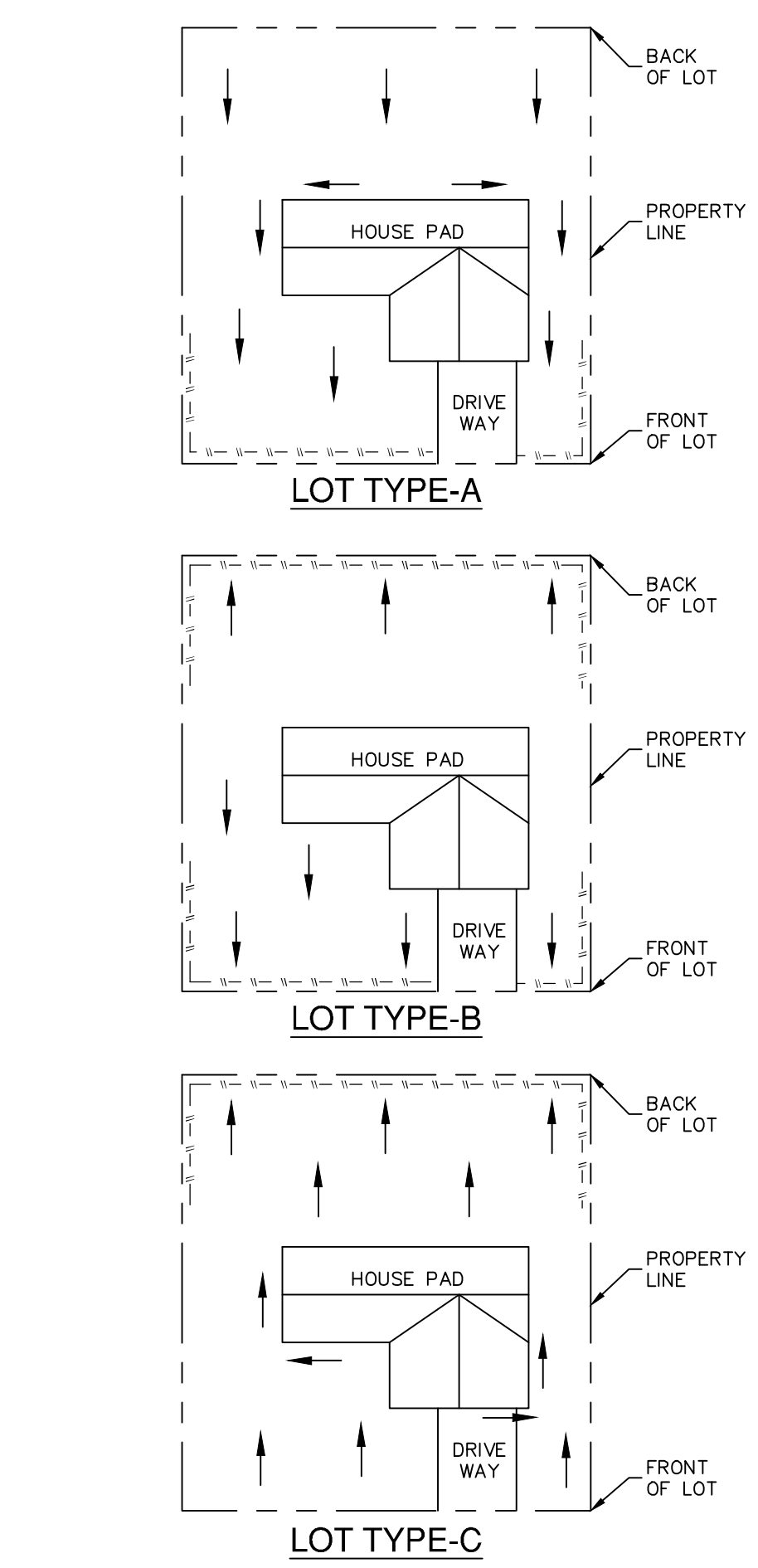
PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL IN POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.

MAINTENANCE

1. WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHOULD BE REMOVED AND DISPOSED OF.
2. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF.
3. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCES CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE BACKFILLED AND REPAIRED.

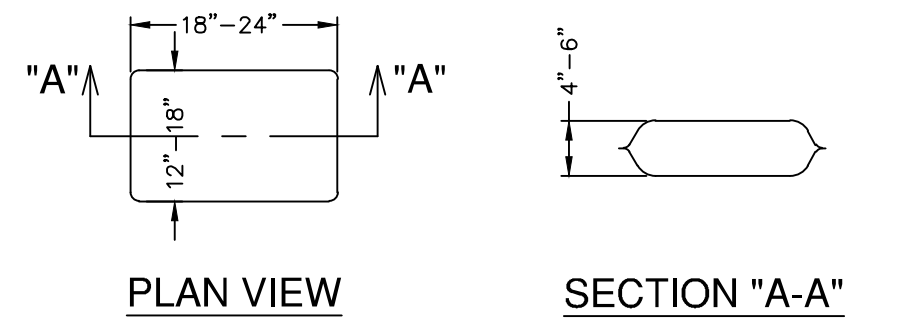
CONCRETE TRUCK WASHOUT PIT DETAIL

NOT-TO-SCALE



TYPICAL HOUSE LOT LAYOUTS

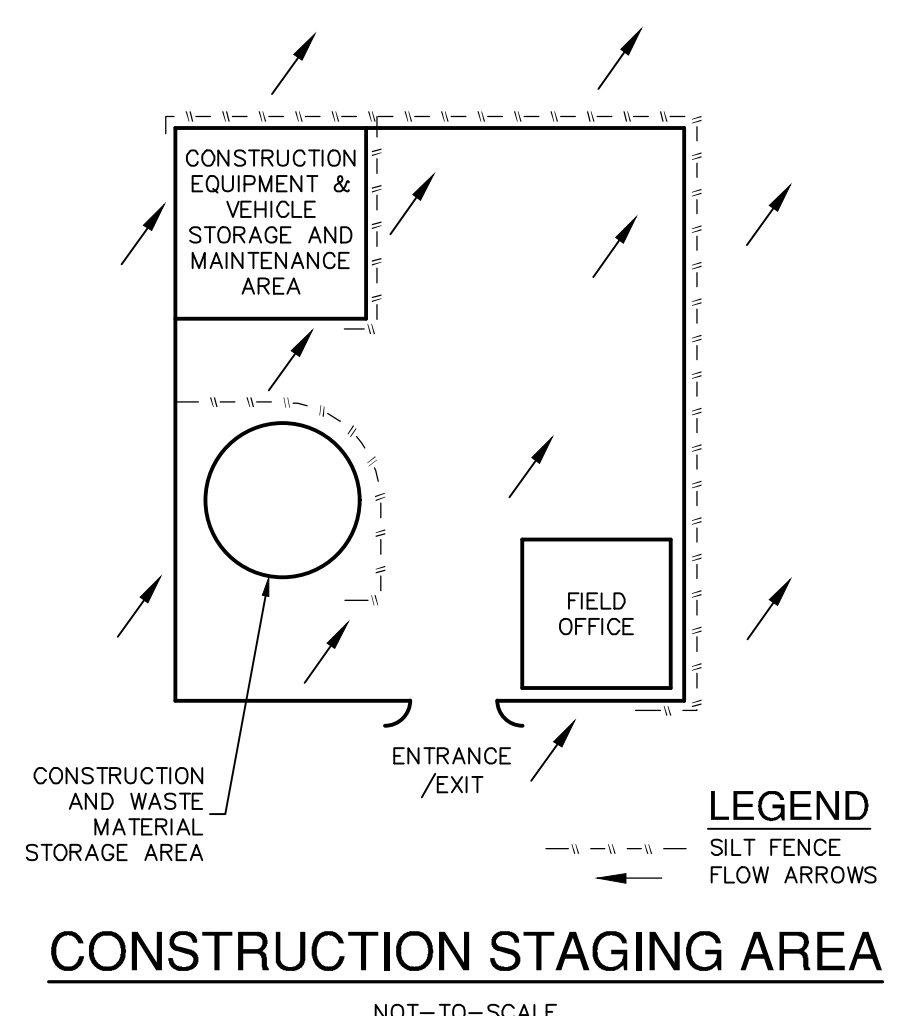
NOTE: SILT FENCE TO BE INSTALLED PER THESE DETAILS AND LOCATED ON THE DOWNGRADED SIDE OF EACH LOT LINE OR LIMITS OF CLEARING AS GENERALLY SHOWN ON THE OVERALL SITE PLAN.



GRAVEL FILTER BAG DETAIL

- NOTES:
1. THE FILTER BAG MATERIAL SHALL BE MADE OF POLYPROPYLENE, POLYETHYLENE WOVEN FABRIC, MIN. UNIT WIGHT OF 4 OUNCES/SY, HAVE A MULLEN BURST STRENGTH EXCEEDING 300 PSI AND ULTRAVIOLET STABILITY EXCEEDING 70%.
 2. THE FILTER BAG SHALL BE FILLED WITH CLEAN, MEDIUM WASHED PEA GRAVEL TO COARSE GRAVEL (0.31 TO 0.75 INCH DIAMETER).
 3. SAND SHALL NOT BE USED TO FILL THE FILTER BAGS.

CONSTRUCTION STAGING AREA



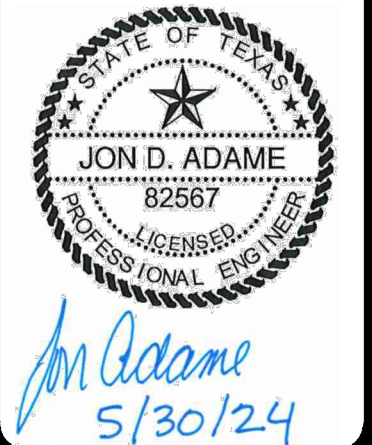
CONSTRUCTION STAGING AREA

THIS SHEET HAS BEEN PREPARED FOR PURPOSES OF THE SWP3 ONLY. ALL OTHER CIVIL ENGINEERING RELATED INFORMATION SHOULD BE ACQUIRED FROM THE APPROPRIATE SHEET IN THE CIVIL IMPROVEMENT PLANS.

EXHIBIT 3

1 OF 2

DATE	
NO.	
REVISION	



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

SMILEY TRACT UNIT 3 & 4
SAN ANTONIO, TEXAS
STORM WATER POLLUTION PREVENTION PLAN DETAILS

PLAT NO.	24-11800067
JOB NO.	13316-03
DATE	MAY 2024
DRAWN	AS
CHECKED	JW
DRAWN	AD
SHEET	C8.10