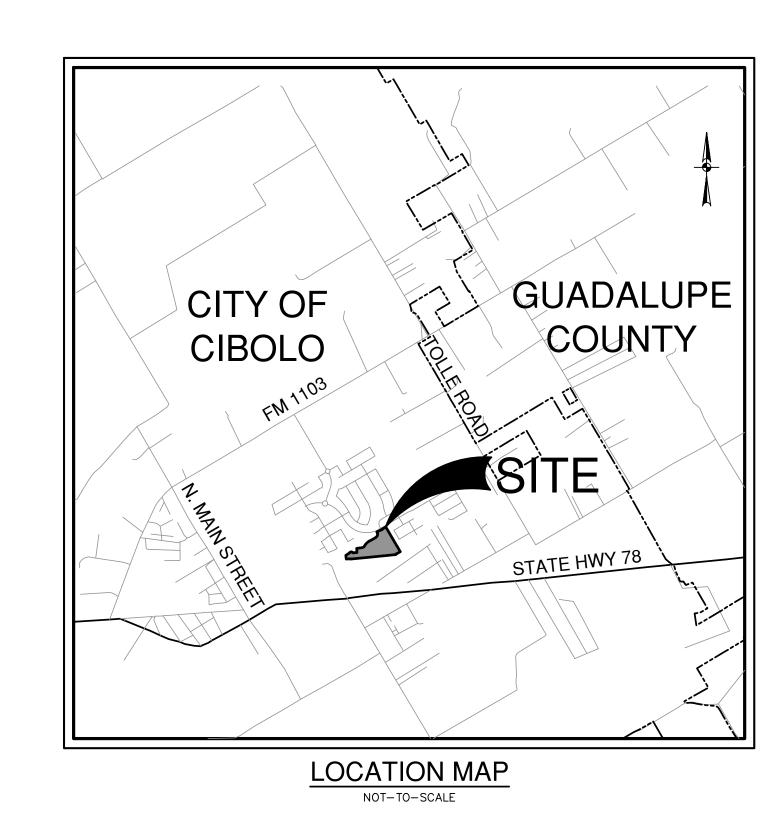
### STEELE CREEK-UNIT 4A

### CIBOLO, TEXAS

### CIVIL CONSTRUCTION PLANS

Sheet List Table

Sheet Title	Sheet Description	Sheet Number	
COVER SHEET		C0.00	
GENERAL CONSTRUCTION NOTES		C0.10	
MASTER DRAINAGE PLAN		C1.00	
DRAIN A	PLAN AND PROFILE	C1.01	
ROLLING RIVER	PLAN AND PROFILE (STA. 10+00.00 TO END)	C2.00	
WHITEWATER CREEK	PLAN AND PROFILE (STA. 10+00.00 TO END)	C2.01	
FAIR SHALLOWS	PLAN AND PROFILE (STA. 10+00.00 TO 17+50.00	C2.02	
FAIR SHALLOWS	PLAN AND PROFILE (STA. 17+50.00 TO END)	C2.03	
CASTLE FALLS	PLAN AND PROFILE (STA. 10+00.00 TO END)	C2.04	
AVALON SAILS	PLAN AND PROFILE (STA 10+00.00 TO END)	C2.05	
STREET DETAILS		C2.10	
SIGNAGE PLAN		C3.00	
SIGNAGE DETAILS	(SHEET 1 OF 2)	C3.10	
SIGNAGE DETAILS	(SHEET 2 OF 2)	C3.20	



	Sheet List Table	
Sheet Title	Sheet Description	Sheet Number
OVERALL SANITARY SEWER PLAN	(SHEET 1 OF 2)	C4.00
OVERALL SANITARY SEWER PLAN	(SHEET 2 OF 2)	C4.01
SANITARY SEWER LINE A	PLAN AND PROFILE	C4.02
SANITARY SEWER LINE B	PLAN AND PROFILE (STA. 1+00.00 TO 8+50.00)	C4.03
SANITARY SEWER LINE B	PLAN AND PROFILE (STA. 8+50.00 TO 17+50.00)	C4.04
SANITARY SEWER LINE B	PLAN AND PROFILE (STA. 17+50.00 TO END)	C4.05
SANITARY SEWER LINE C	PLAN AND PROFILE (STA. 1+00.00 TO END)	C4.06
SANITARY SEWER NOTES AND DETAILS	(SHEET 1 OF 2)	C4.10
SANITARY SEWER NOTES AND DETAILS	(SHEET 2 OF 2)	C4.20
OVERALL WATER DISTRIBUTION PLAN	(SHEET 1 OF 2)	C5.00
OVERALL WATER DISTRIBUTION PLAN	(SHEET 2 OF 2)	C5.01
WATER DISTRIBUTION NOTES AND DETAILS		C5.10
OVERALL UTILITY PLAN	(SHEET 1 OF 2)	C6.00
OVERALL UTILITY PLAN	(SHEET 2 OF 2)	C6.01
OVERALL GRADING PLAN		C7.00
STORM WATER POLLUTION PREVENTION PLAN		C8.00
STORMWATER POLLUTION PREVENTION PLAN	NOTES AND DETAILS	C8.10

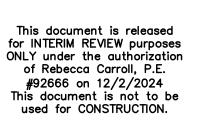
PREPARED FOR:

CONTINENTAL HOMES OF TEXAS, L.P. 5419 N. LOOP 1604 E. SAN ANTONIO, TEXAS 78247

DECEMBER 2024



TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800



# INSTALLED.

### TYPICAL SEQUENCE OF CONSTRUCTION

- 1. CALL THE PLANNING AND DEVELOPMENT SERVICES DEPARTMENT 48 HOURS PRIOR TO BEGINNING ANY WORK AND SCHEDULE A PRECONSTRUCTION MEETING WITH THE CITY AND ALL AFFECTED UTILITY PROVIDERS, THE GENERAL CONTRACTOR, THE DEVELOPER AND THE DEVELOPER'S ENGINEER.
- 2. OBTAIN A SITE DEVELOPMENT PERMIT FROM THE PLANNING AND DEVELOPMENT SERVICES DEPARTMENT.
- 3. PROVIDE THE PLANNING AND DEVELOPMENT SERVICES DEPARTMENT WITH EVIDENCE ALL TCEQ LICENSES AND REQUIREMENTS ARE UP TO DATE.
- 4. INSTALL TEMPORARY FROSION CONTROLS AND TREE PROTECTION FENCING PRIOR TO ANY CLEARING AND GRUBBING. NOTIFY THE CITY WHEN
- 5. ROUGH-CUT ALL REQUIRED OR NECESSARY PONDS. EITHER THE PERMANENT OUTLET STRUCTURE OR A TEMPORARY OUTLET MUST BE CONSTRUCTED PRIOR TO DEVELOPMENT OF ANY EMBANKMENT OR EXCAVATION THAT LEADS TO PONDING CONDITIONS. THE OUTLET SYSTEM MUST CONSIST OF A LOW-LEVEL OUTLET AND AN EMERGENCY OVERFLOW MEETING THE REQUIREMENTS OF THE UDC. THE OUTLET SYSTEM SHALL BE PROTECTED FROM EROSION AND SHALL BE MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION UNTIL FINAL RESTORATION IS ACHIEVED.
- 6. DELIVER APPROVED ROUGH CUT SHEETS TO THE CITY ENGINEER PRIOR TO CLEARING AND GRUBBING.
- 7. ROUGH GRADE STREETS. NO DEVELOPMENT OF EMBANKMENT WILL BE PERMITTED AT THIS TIME.
- 8. INSTALL ALL UTILITIES TO BE LOCATED UNDER THE PROPOSED PAVEMENT OR WITHIN THE ROAD RIGHT-OF-WAY.
- 9. DELIVER STORM SEWER CUT SHEETS TO THE CITY ENGINEER.
- 10. BEGIN INSTALLATION OF STORM SEWER LINES. UPON COMPLETION, RESTORE AS MUCH DISTURBED AREA AS POSSIBLE, PARTICULARLY CHANNELS AND LARGE OPEN AREAS.
- 11. DELIVER FINAL GRADE CUT SHEETS TO THE CITY ENGINEER.
- 12. RE-GRADE STREETS TO SUB-GRADE.
- 13. ENSURE THAT UNDERGROUND UTILITY CROSSINGS ARE COMPLETED. LAY 1ST COURSE BASE MATERIAL ON STREETS.
- 14. INSTALL CURB AND GUTTER.
- 15. LAY FINAL BASE COURSE ON ALL STREETS.
- 16. LAY ASPHALT.
- 17. COMPLETE FINAL GRADING AND RESTORATION OF DETENTION, SEDIMENTATION / FILTRATION PONDS.
- 18. COMPLETE PERMANENT EROSION CONTROL AND RESTORATION OF SITE
- 19. REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROLS.
- 20. COMPLETE ANY NECESSARY FINAL DRESS UP OF AREAS DISTURBED.

### CITY OF CIBOLO SPECIAL CONSTRUCTION NOTES (WHEN APPLICABLE)

- 1. THE SUBGRADE MATERIAL IN STEELE CREEK-UNIT 6 WAS DESIGNED PER GEOTECH REPORT NO. 181023-P DATED FEBRUARY 15, 2018 AND ADDENDUM NO. S181023-P-A6 DATED NOVEMBER 18, 2022 AND THE STREET SECTION DESIGNED ACCORDING TO CITY OF CIBOLO DESIGN AND
- 2. STREET SECTIONS ARE TO BE CONSTRUCTED AS FOLLOWS:
- A. PROVIDE STREET NAMES. WIDTH OF R.O.W., OR OTHER METHODS TO IDENTIFY PROPOSED DESIGN OF DIFFERENT PAVEMENT THICKNESS. IN WRITING OR GRAPHICALLY, DESCRIBE THE STREET SECTION(S) TO BE CONSTRUCTED.
- B. MANHOLE FRAMES, COVERS, AND WATER VALVE COVERS WILL BE RAISED TO FINISHED PAVEMENT GRADE AT THE OWNER'S EXPENSE BY A QUALIFIED CONTRACTOR WITH CITY INSPECTION. ALL UTILITY ADJUSTMENTS SHALL BE COMPLETED PRIOR TO FINAL PAVING CONSTRUCTION.
- C. CROWNS OF INTERSECTING STREETS WILL CULMINATE IN A DISTANCE OF 40' FROM THE INTERSECTING CURB LINE UNLESS OTHERWISE NOTED. INLETS ON THE INTERSECTING STREET SHALL NOT BE CONSTRUCTED WITHIN 40 FEET OF THE VALLEY GUTTER, UNLESS OTHERWISE NOTED.
- D. PRIOR TO FINAL ACCEPTANCE OF A STREET OUTSIDE THE CITY LIMITS, STREET NAME SIGNS CONFORMING TO COUNTY STANDARDS SHALL BE INSTALLED BY DEVELOPER.
- E. SIDEWALK REQUIREMENTS (GIVE STREET NAME AND LOCATION OF REQUIRED SIDEWALK, I.E., NORTH, SOUTH, EAST, OR WEST SIDE.
- F. A CURB LAY DOWN IS REQUIRED AT ALL POINTS WHERE THE PROPOSED SIDEWALK INTERSECTS THE CURB.
- WHEN USING LIME STABILIZATION OF SUBGRADE, IT SHALL BE PLACED IN SLURRY FORM.
- H. INSIDE THE CIBOLO CITY LIMITS, SIDEWALKS SHALL BE COMPLETED PRIOR TO ACCEPTANCE OF ANY DRIVEWAY APPROACHES AND /OR ISSUANCE OF A CERTIFICATE OF OCCUPANCY. WHEN OUTSIDE THE CIBOLO CITY LIMITS, A LETTER OF CREDIT MAY BE POSTED OR OTHER SUITABLE FINANCIAL ARRANGEMENTS MAY BE MADE TO INSURE CONSTRUCTION OF THE SIDEWALKS. IN EITHER CASE, SIDEWALKS ADJACENT TO "COMMON AREAS", PARKWAYS, OR OTHER LOCATIONS ON WHICH NO BUILDING CONSTRUCTION WILL TAKE PLACE, MUST BE CONSTRUCTED PRIOR TO FINAL ACCEPTANCE OF
- I. A LICENSE AGREEMENT FOR LANDSCAPING MAINTENANCE AND IRRIGATION IN STREET R.O.W. SHALL BE EXECUTED BY THE DEVELOPER IN PARTY WITH THE CITY OF CIBOLO PRIOR TO FINAL ACCEPTANCE OF THE SUBDIVISION.

### CITY OF CIBOLO GENERAL CONSTRUCTION NOTES

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF CIBOLO DESIGN AND CONSTRUCTION MANUAL AND THE UNIFIED DEVELOPMENT CODE, HERE AFTER REFERRED TO THE UDC.
- 2. APPROVAL OF THESE CONSTRUCTION PLANS BY THE CITY OF CIBOLO DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY AND ADEQUACY OF HIS/HER SUBMITTAL WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY THE CITY ENGINEER.
- 3. ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN APPROVING THESE PLANS. THE CITY OF CIBOLO MUST RELY ON THE ADEQUACY OF THE WORK OF THE ENGINEER.
- 4. DESIGN PROCEDURES ARE IN COMPLETE COMPLIANCE WITH THE CITY OF CIBOLO DESIGN AND CONSTRUCTION MANUAL. IT IS THE RESPONSIBILITY OF THE ENGINEER TO REQUEST A WAIVER FROM ANY ASPECT OF THESE PLANS THAT DO NOT COMPLY WITH THE UDC.
- 5. A MINIMUM OF TWO EXISTING BENCH MARKS TIED TO CITY OF CIBOLO GRID SHOULD BE SHOWN ON THE PLANS, IN ADDITION TWO PERMANENT BENCHMARKS PER SUBDIVISION SHALL BE INSTALLED IN EACH SUBDIVISION TO INCLUDE DESCRIPTION, LOCATION, AND ELEVATION AND TIE TO CITY OF CIBOLO STANDARDS WHEN POSSIBLE.
- 6. CAST BRONZE SURVEY MARKERS SHALL BE PLACED IN CONCRETE IN PERMANENT, ACCESSIBLE LOCATIONS AT THE TIME OF CONSTRUCTION. THE LOCATIONS OF THE MARKERS SHALL BE INDICATED ON THE CONSTRUCTION PLANS. A MINIMUM OF ONE MARKER SHALL BE PLACED FOR EACH 20 ACRES OF THE PROJECT.
- 7. PRIOR TO BEGINNING CONSTRUCTION, THE OWNER OR HIS AUTHORIZED REPRESENTATIVE SHALL CONVENE A PRECONSTRUCTION CONFERENCE BETWEEN THE CITY OF CIBOLO, CONSULTING ENGINEER, CONTRACTOR, AND ANY OTHER AFFECTED PARTIES. NOTIFY THE CITY OF CIBOLO AT LEAST 48 HOURS PRIOR TO THE TIME OF THE CONFERENCE AND 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- 8. THE CONTRACTOR SHALL GIVE THE CITY A MINIMUM OF 48 HOURS NOTICE BEFORE BEGINNING EACH PHASE OF CONSTRUCTION.
- 9. BARRICADES, BUILT TO CITY OF CIBOLO SPECIFICATIONS, SHALL BE CONSTRUCTED ON ALL DEAD-END STREETS AND AS NECESSARY DURING CONSTRUCTION TO MAINTAIN JOB SAFETY. (STREETS, ETC. MAY BE LISTED IN ADDITION TO OR INSTEAD OF NOTE.)
- 10. IF BLASTING IS PLANNED BY THE CONTRACTOR, A BLASTING PERMIT MUST BE SECURED PRIOR TO COMMENCEMENT OF ANY BLASTING.
- 11. ANY EXISTING PAVEMENT, CURBS, AND/ OR SIDEWALKS DAMAGED OR REMOVED WILL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE BEFORE ACCEPTANCE OF THE SUBDIVISION.
- 12. THE LOCATION OF ANY WATER AND / OR WASTEWATER LINES SHOWN ON THE PLANS MUST BE VERIFIED BY THE PUBLIC WORKS DEPARTMENT.
- 13. USE ONE CALL UTILITY SYSTEM: DIAL 1-800-344-8377, 48 HOURS BEFORE
- 14. ALL STORM SEWER PIPES TO BE CLASS III RCP UNLESS NOTED OTHERWISE.

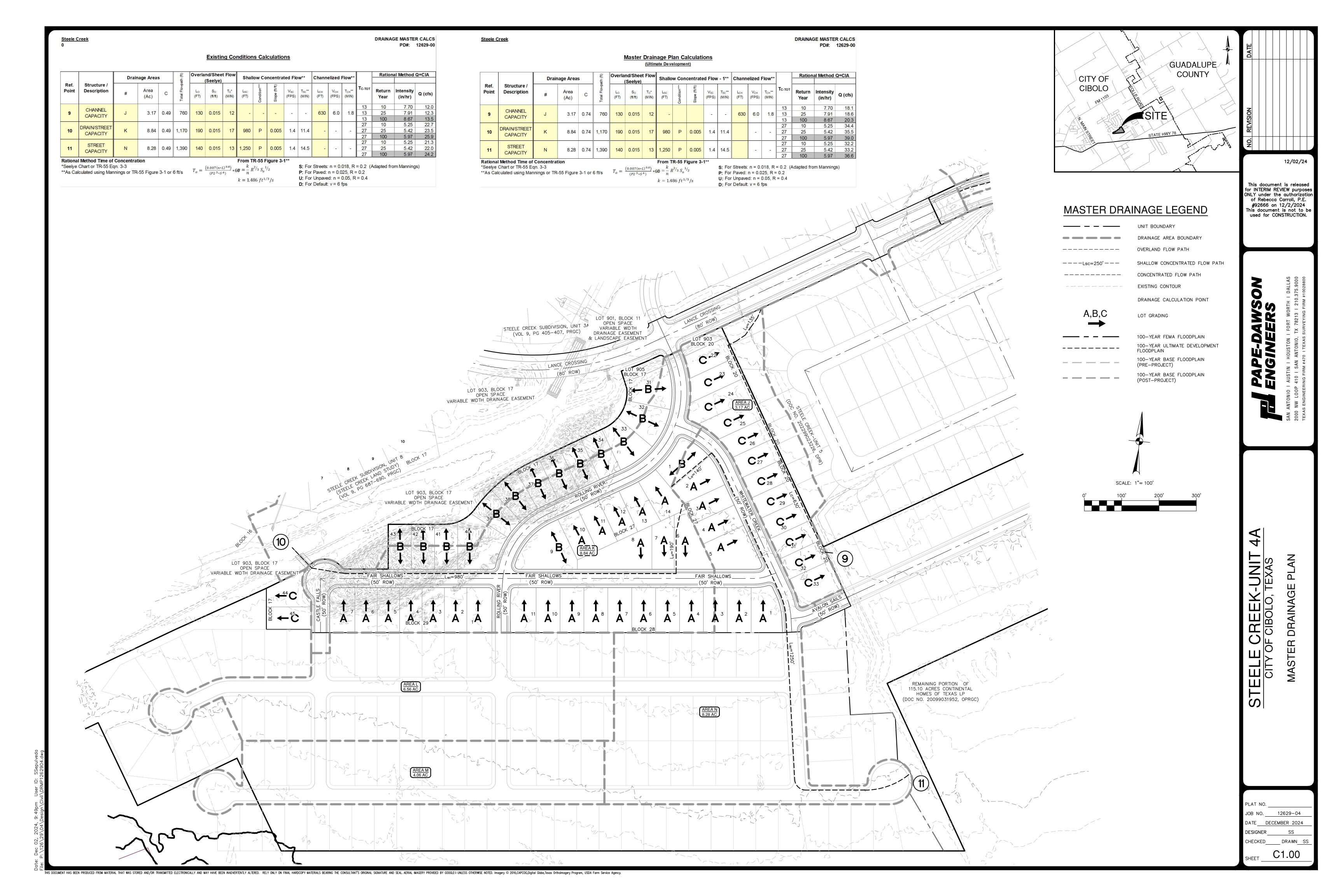
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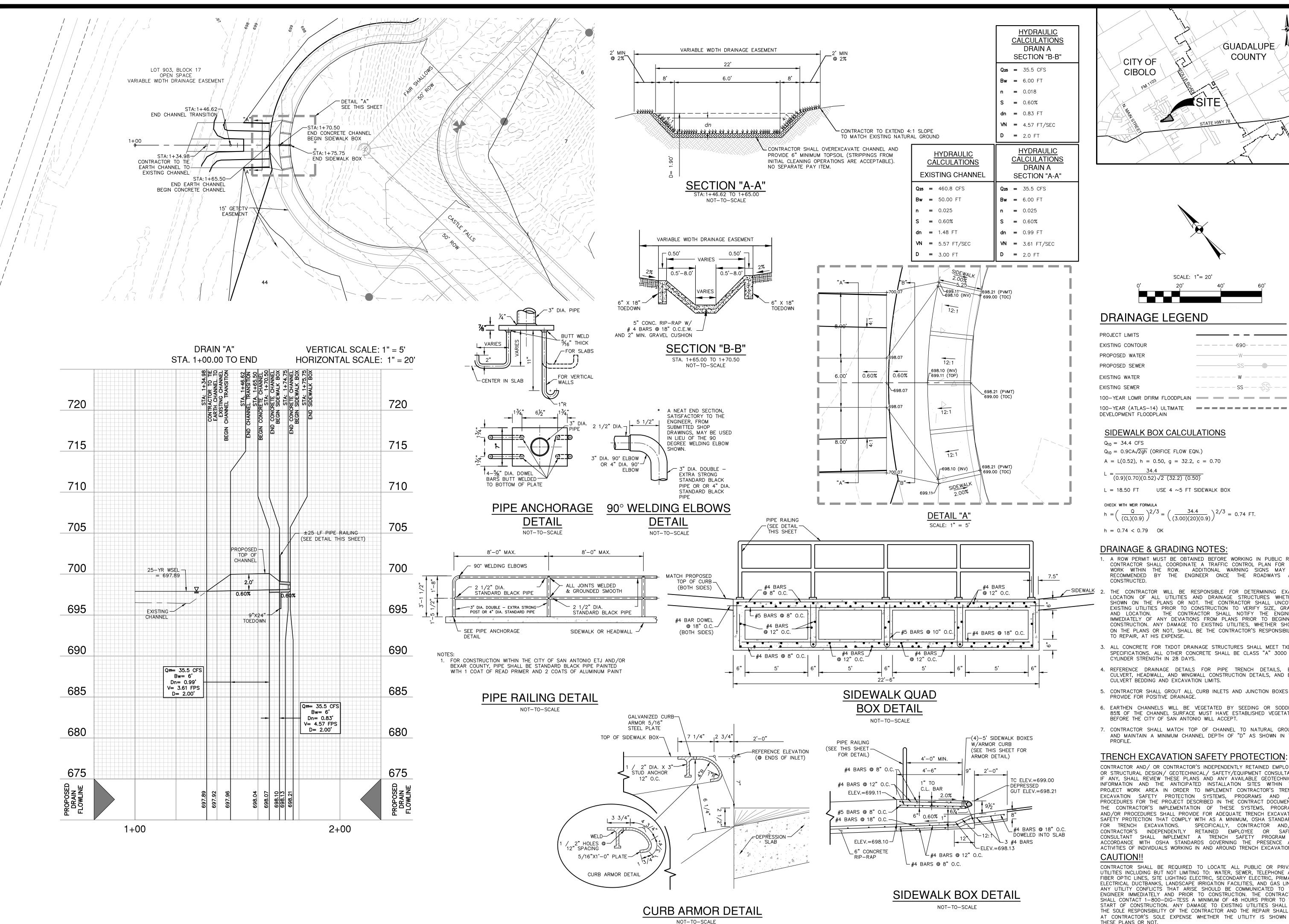
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4**A** E CREEK-UNIT OF CIBOLO, TEXAS STEELE





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GUADALUPE COUNTY CIBOLO 12/02/24

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PAN

### DRAINAGE LEGEND

— — — — -690- — — — -

### SIDEWALK BOX CALCULATIONS

 $Q_{10} = 0.9CA\sqrt{2gh}$  (ORIFICE FLOW EQN.)

 $L = \frac{0.00}{(0.9)(0.70)(0.52)\sqrt{2(32.2)(0.50)}}$ 

L = 18.50 FT USE 4  $\sim 5 \text{ FT SIDEWALK BOX}$ 

h =  $\left(\frac{Q}{(CL)(0.9)}\right)^{2/3} = \left(\frac{34.4}{(3.00)(20)(0.9)}\right)^{2/3} = 0.74 \text{ FT.}$ 

### **DRAINAGE & GRADING NOTES:**

1. A ROW PERMIT MUST BE OBTAINED BEFORE WORKING IN PUBLIC ROW. CONTRACTOR SHALL COORDINATE A TRAFFIC CONTROL PLAN FOR AL WORK WITHIN THE ROW. ADDITIONAL WARNING SIGNS MAY E RECOMMENDED BY THE ENGINEER ONCE THE ROADWAYS ARE CONSTRUCTED.

THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXAC 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.

3. ALL CONCRETE FOR TXDOT DRAINAGE STRUCTURES SHALL MEET TXDO SPECIFICATIONS. ALL OTHER CONCRETE SHALL BE CLASS "A" 3000 PS CYLINDER STRENGTH IN 28 DAYS.

CULVERT, HEADWALL, AND WINGWALL CONSTRUCTION DETAILS, AND BO 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 TH

### TRENCH EXCAVATION SAFETY PROTECTION:

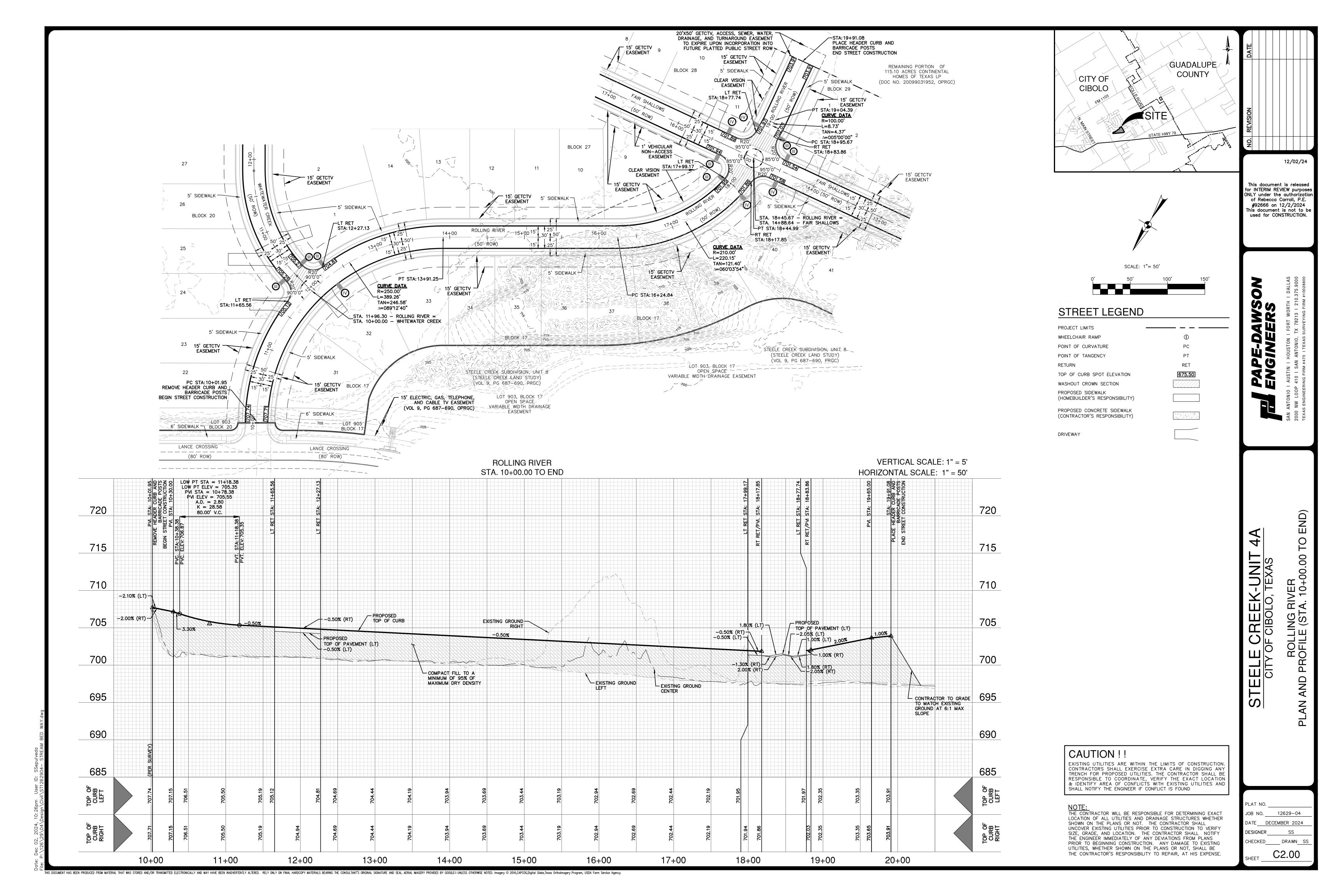
CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S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

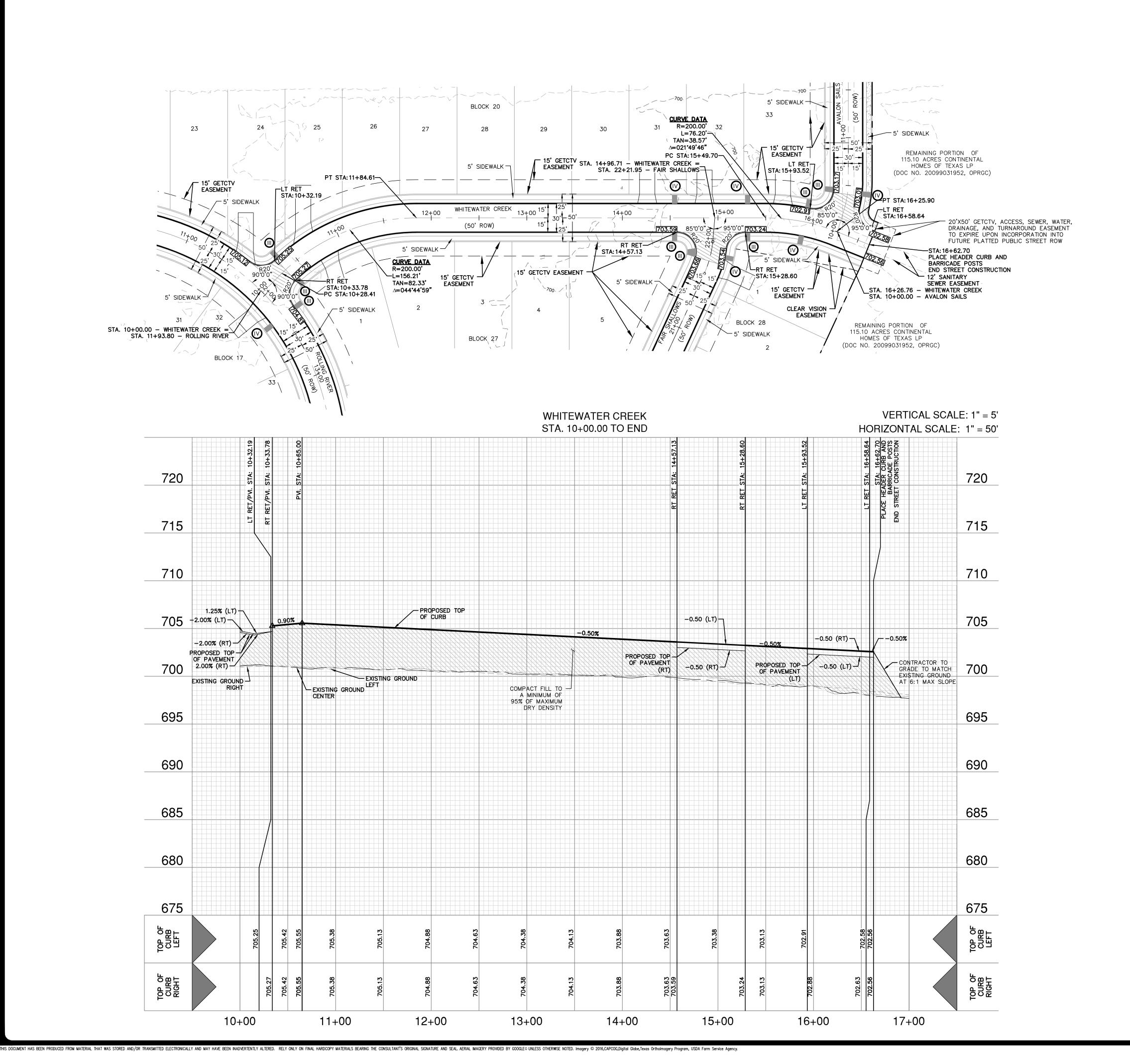
CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE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

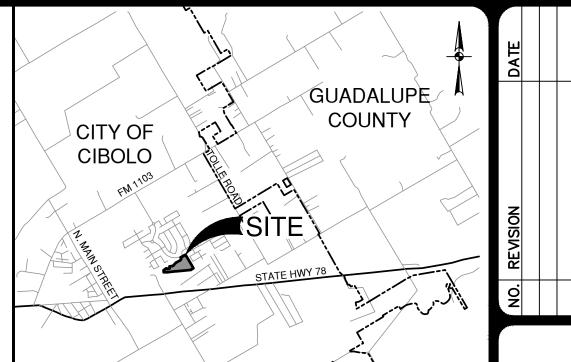
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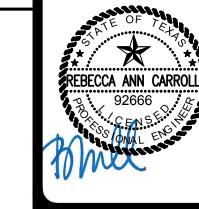
DRAIN A I AND PROFILE

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SCALE: 1"= 50'

### STREET LEGEND

CAUTION!!

EXISTING UTILITIES ARE WITHIN THE LIMITS OF CONSTRUCTION. CONTRACTORS SHALL EXERCISE EXTRA CARE IN DIGGING ANY TRENCH FOR PROPOSED UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE, VERIFY THE EXACT LOCATION & IDENTIFY AREA OF CONFLICTS WITH EXISTING UTILITIES AND SHALL NOTIFY THE ENGINEER IF CONFLICT IS FOUND

NOTE:
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

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DRIVEWAY

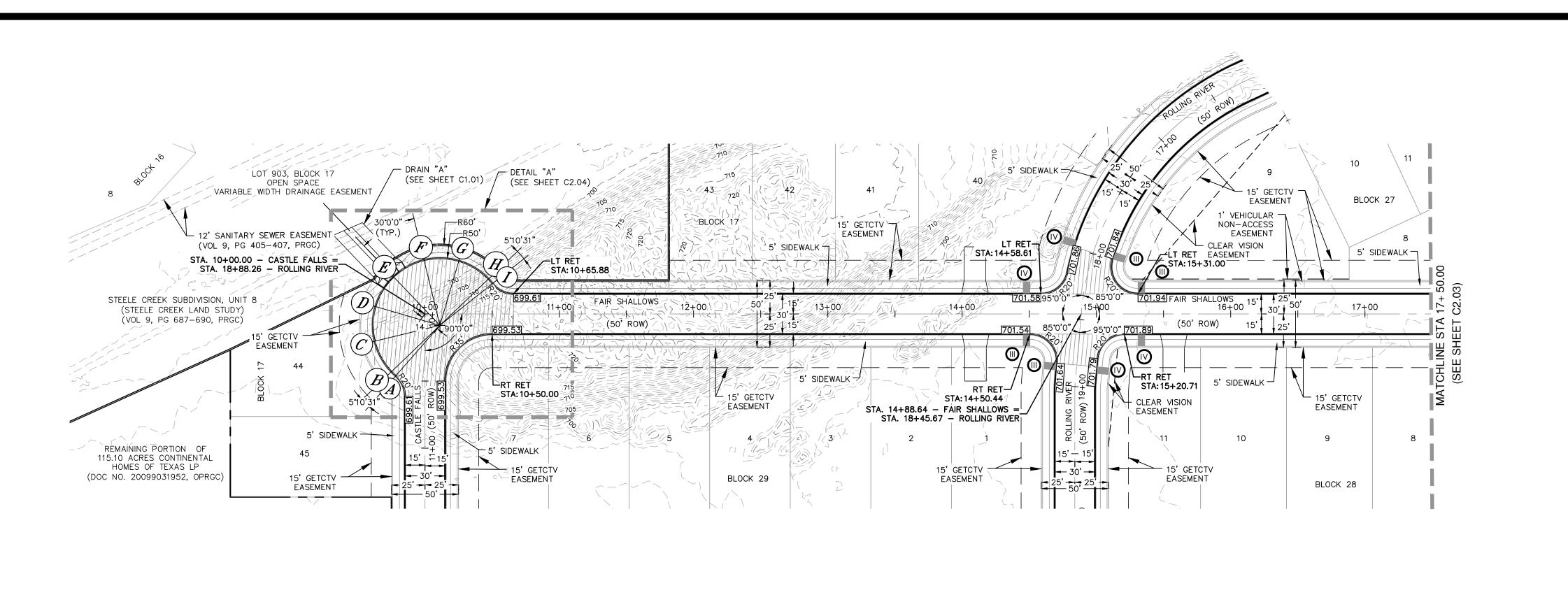
PROJECT LIMITS	
WHEELCHAIR RAMP	$\oplus$
POINT OF CURVATURE	PC
POINT OF TANGENCY	PT
RETURN	RET
TOP OF CURB SPOT ELEVATION	675.50
WASHOUT CROWN SECTION	
PROPOSED SIDEWALK (HOMEBUILDER'S RESPONSIBILITY)	
PROPOSED CONCRETE SIDEWALK (CONTRACTOR'S RESPONSIBILITY)	

## STEELE CREEK-UNIT CITY OF CIBOLO, TEXAS

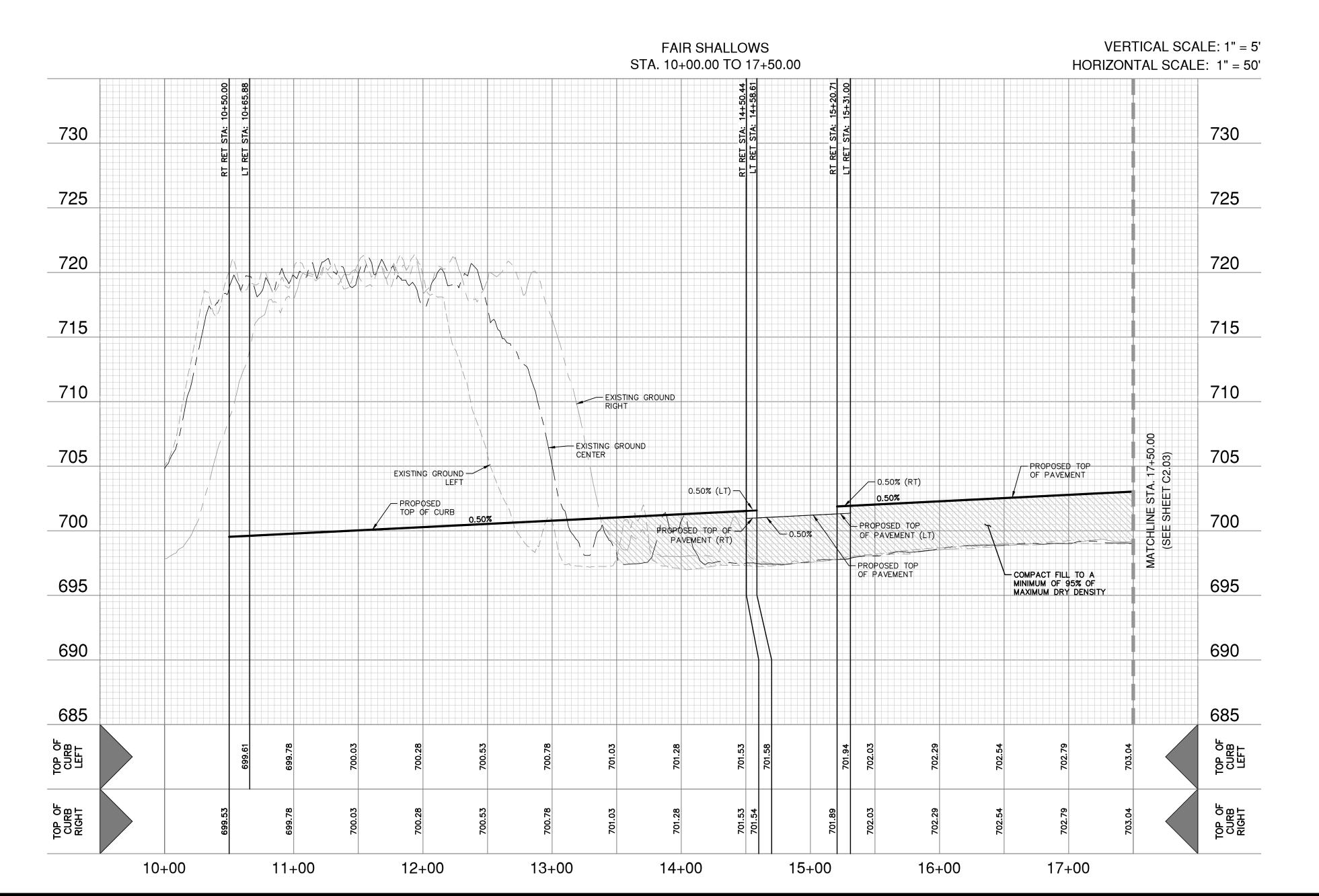
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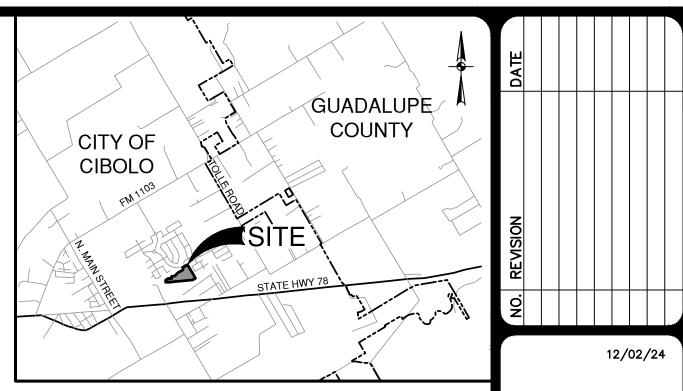
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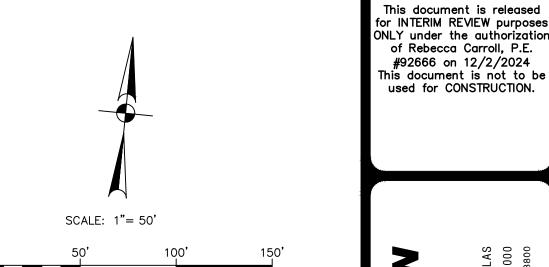
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### STREET LEGEND

PROJECT LIMITS WHEELCHAIR RAMP POINT OF CURVATURE PC POINT OF TANGENCY PΤ RET RETURN 675.50 TOP OF CURB SPOT ELEVATION WASHOUT CROWN SECTION PROPOSED SIDEWALK (HOMEBUILDER'S RESPONSIBILITY) PROPOSED CONCRETE SIDEWALK (CONTRACTOR'S RESPONSIBILITY) DRIVEWAY

# LE CREEK-UNIT TY OF CIBOLO, TEXAS

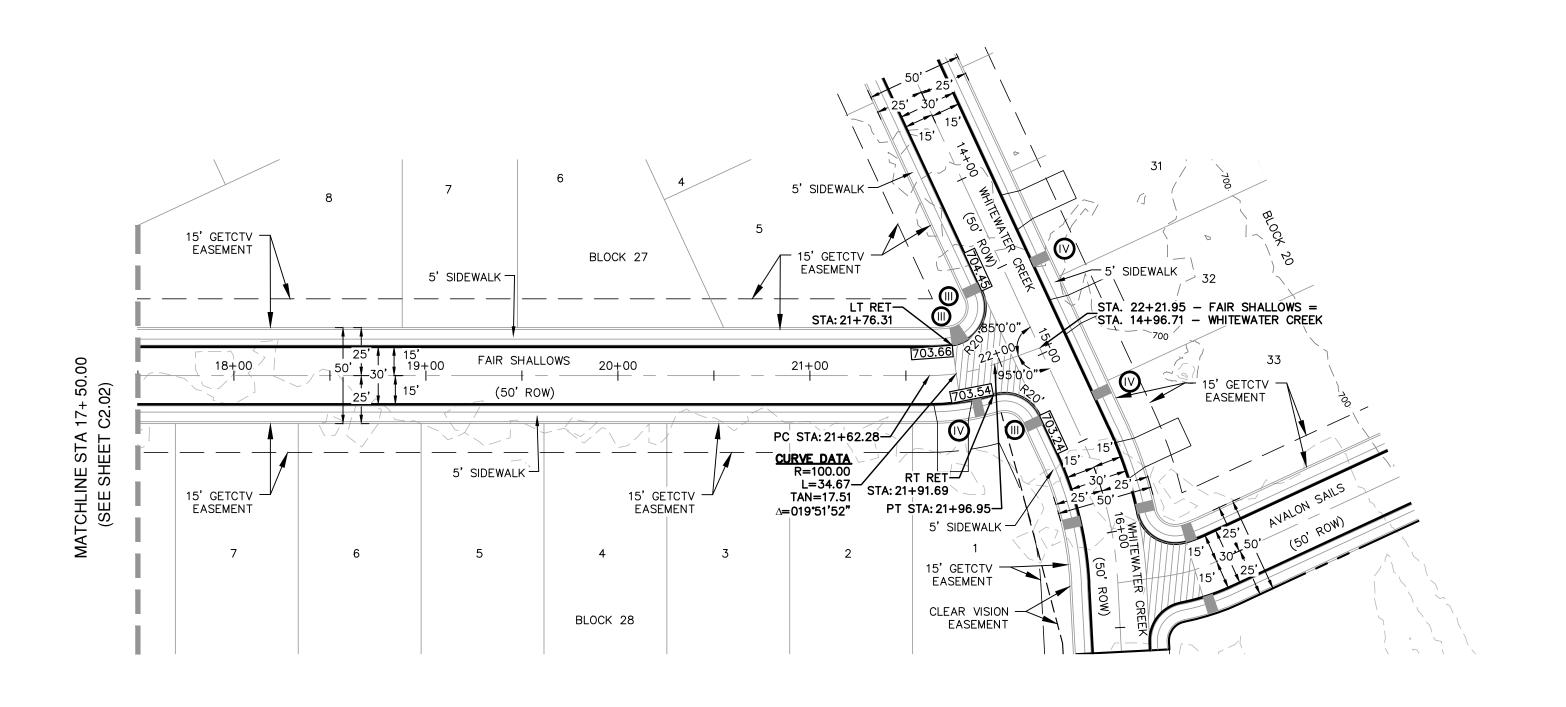
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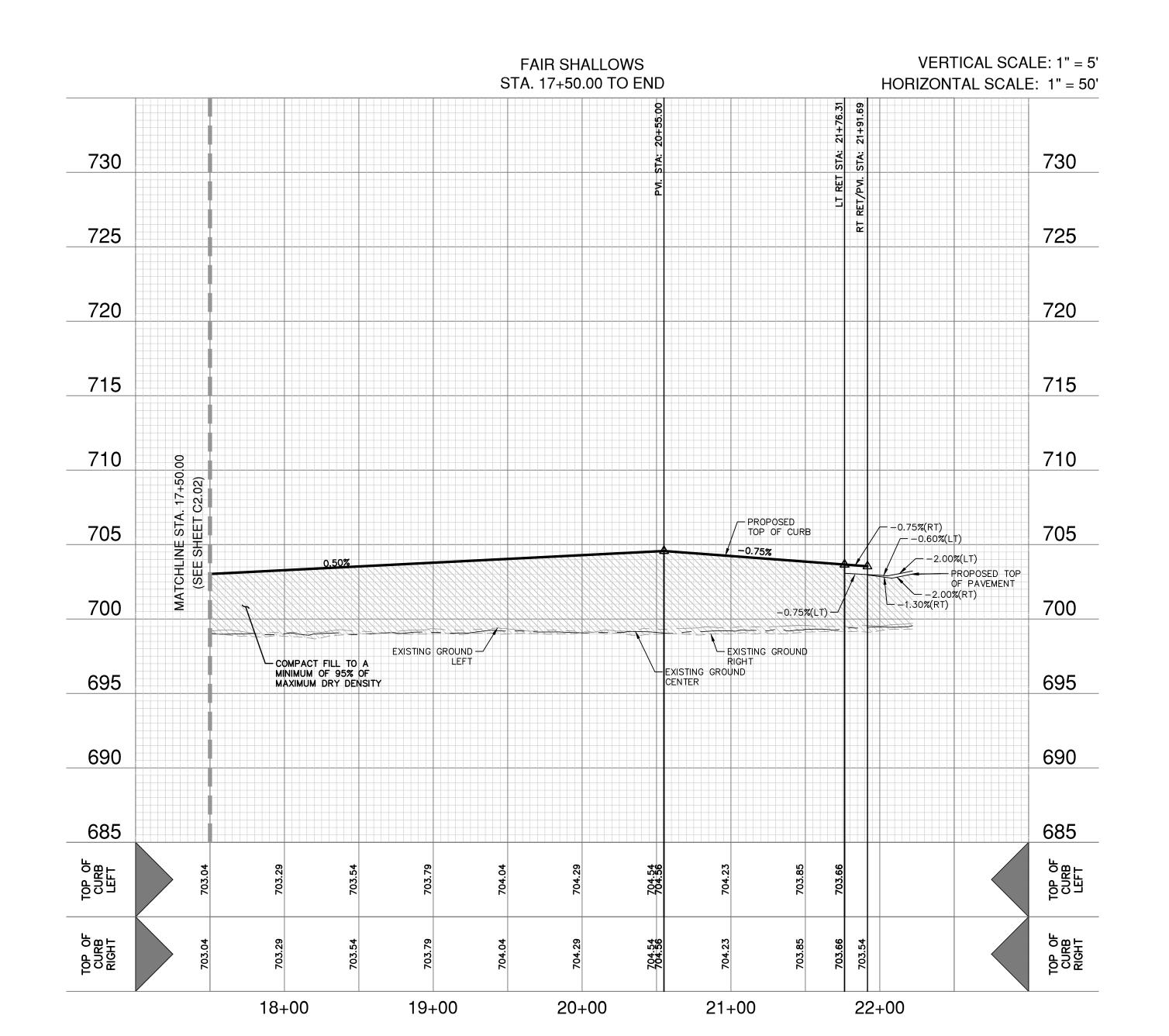
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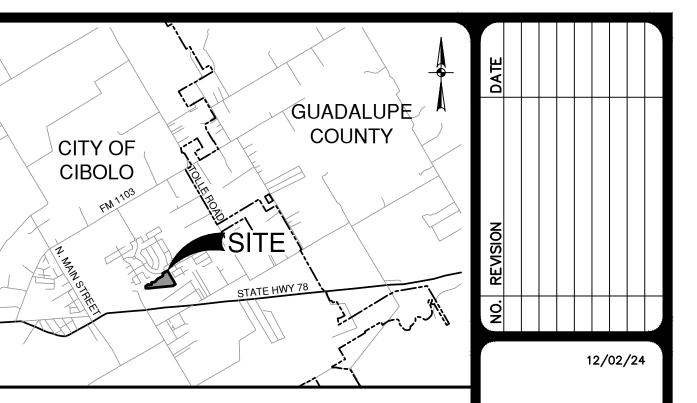
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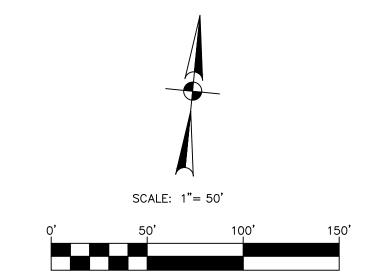
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### STREET LEGEND

PROJECT LIMITS

WHEELCHAIR RAMP

POINT OF CURVATURE

POINT OF TANGENCY

RETURN

RET

TOP OF CURB SPOT ELEVATION

WASHOUT CROWN SECTION

PROPOSED SIDEWALK
(HOMEBUILDER'S RESPONSIBILITY)

PROPOSED CONCRETE SIDEWALK
(CONTRACTOR'S RESPONSIBILITY)

DRIVEWAY

## PAPE-DAWSON ENGINEERS SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLA

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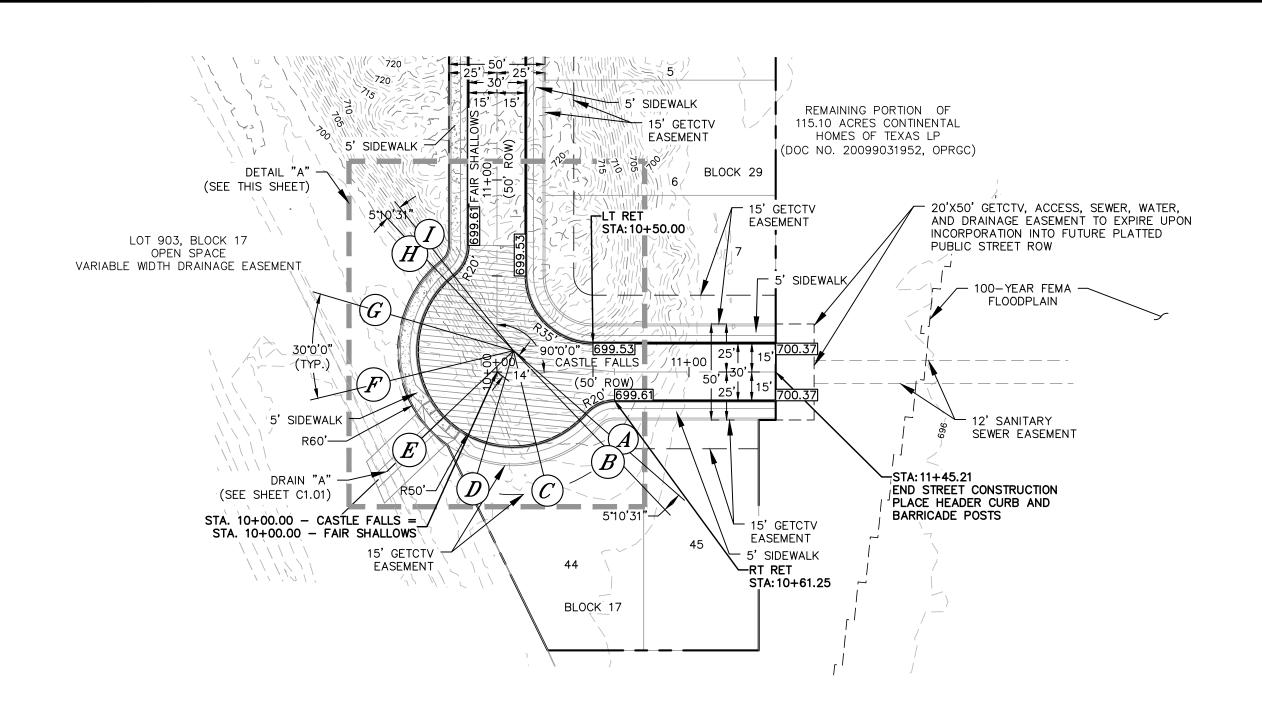
# STEELE CREEK-UNIT 4A CITY OF CIBOLO, TEXAS

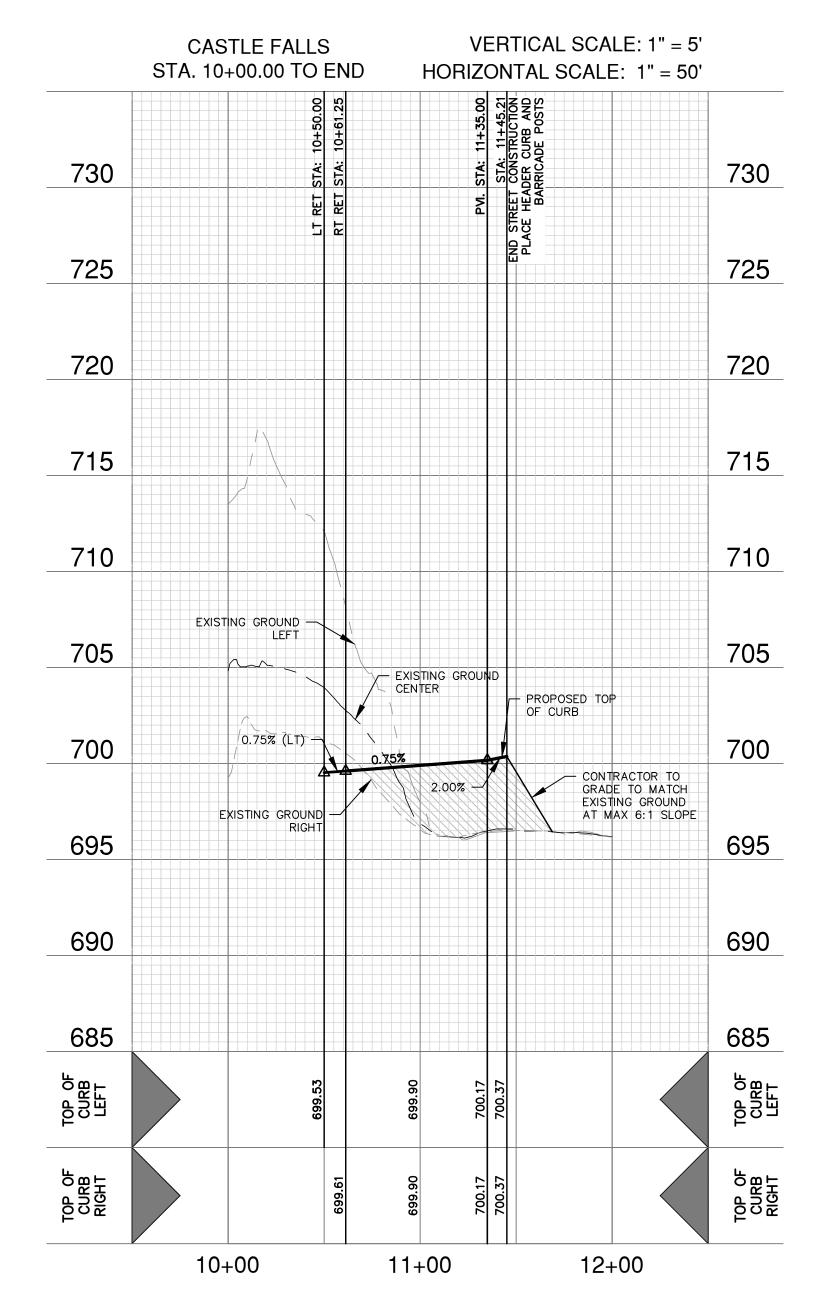
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### CAUTION!!

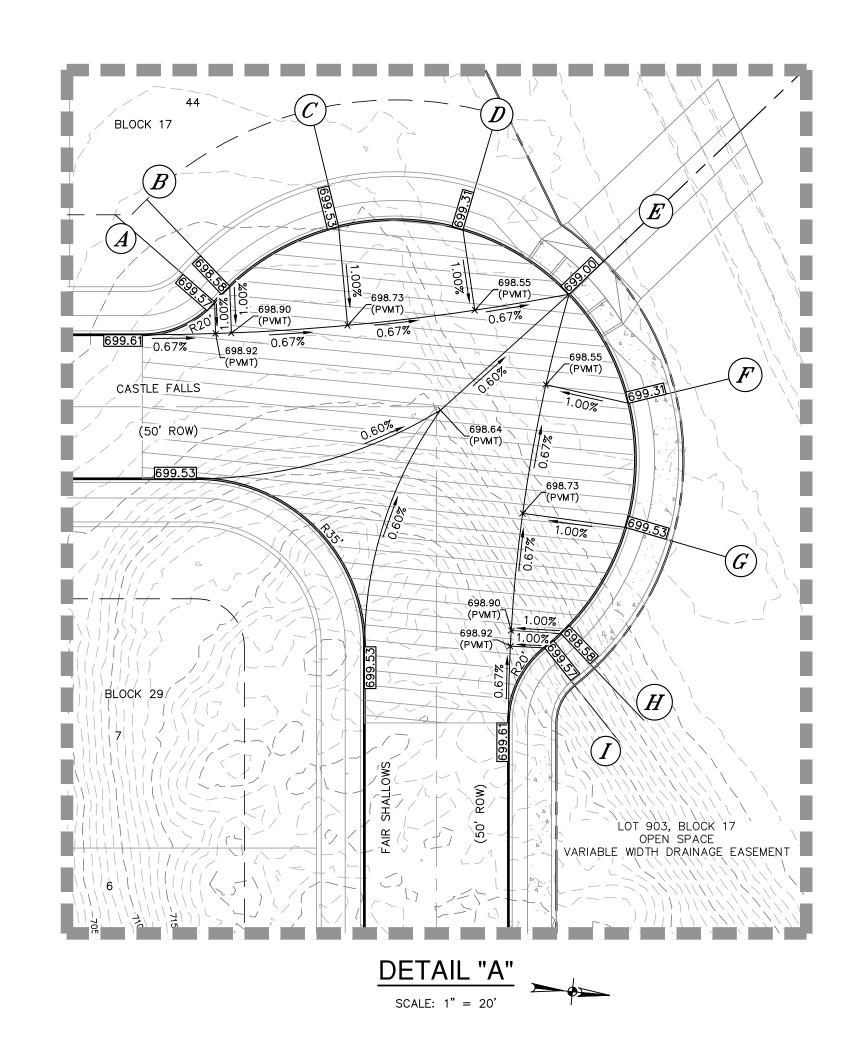
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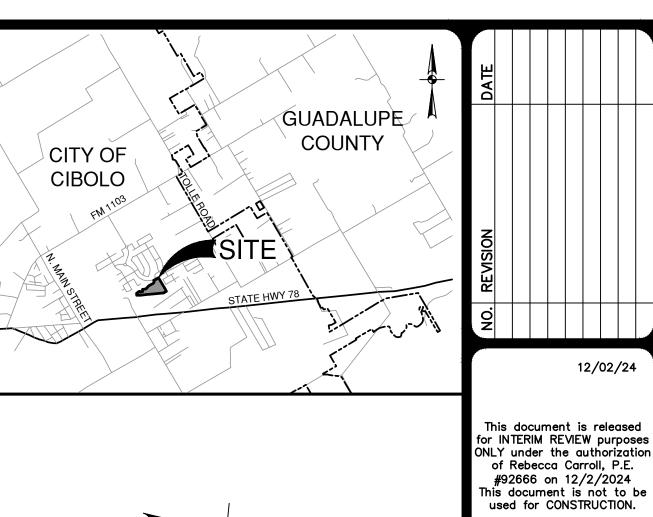
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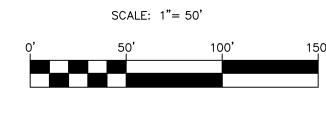


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### STREET LEGEND

PROJECT LIMITS WHEELCHAIR RAMP POINT OF CURVATURE PC PΤ POINT OF TANGENCY RET RETURN 675.50 TOP OF CURB SPOT ELEVATION WASHOUT CROWN SECTION PROPOSED SIDEWALK (HOMEBUILDER'S RESPONSIBILITY) PROPOSED CONCRETE SIDEWALK (CONTRACTOR'S RESPONSIBILITY) DRIVEWAY

STEELE CREEK-UNIT

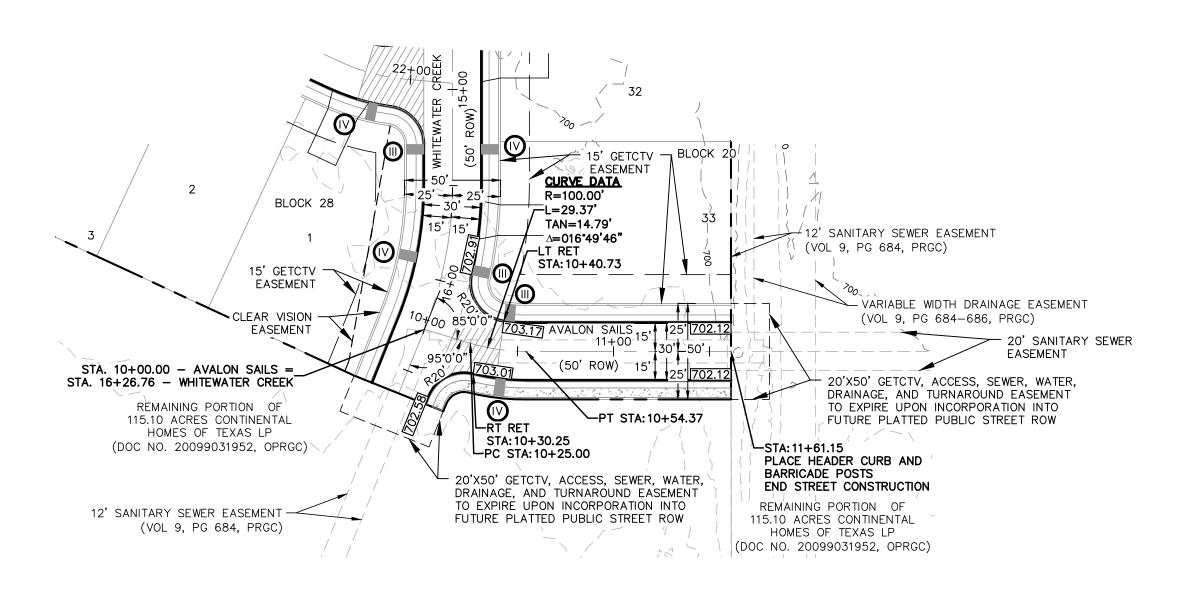
JOB NO. 12629-04 ATE DECEMBER 2024 DESIGNER :HECKED\_\_\_\_\_ DRAWN\_SS

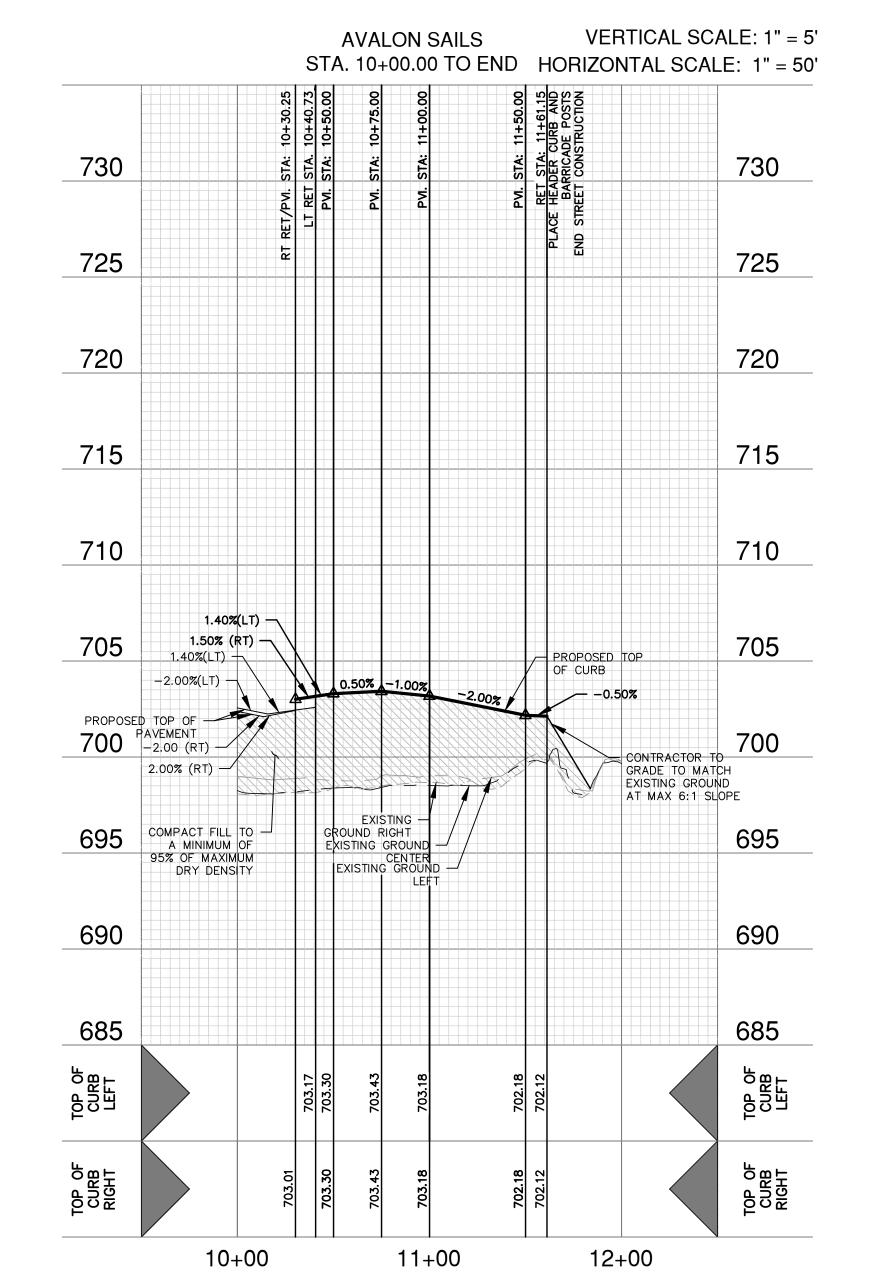
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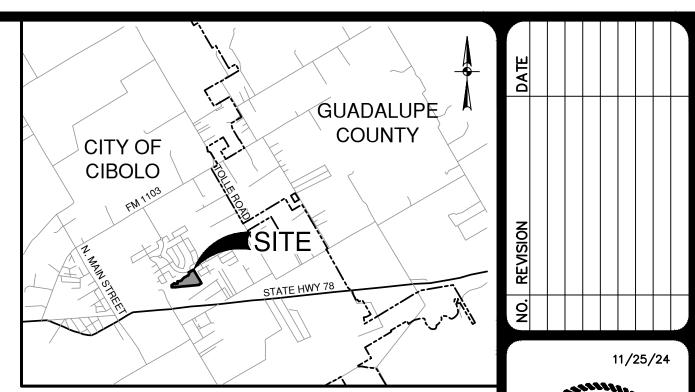
### CAUTION!!

EXISTING UTILITIES ARE WITHIN THE LIMITS OF CONSTRUCTION. CONTRACTORS SHALL EXERCISE EXTRA CARE IN DIGGING ANY TRENCH FOR PROPOSED UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE, VERIFY THE EXACT LOCATION & IDENTIFY AREA OF CONFLICTS WITH EXISTING UTILITIES AND SHALL NOTIFY THE ENGINEER IF CONFLICT IS FOUND

NOTE:
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.









### STREET LEGEND

PROJECT LIMITS	
WHEELCHAIR RAMP	•
POINT OF CURVATURE	PC
POINT OF TANGENCY	PT
RETURN	RET
TOP OF CURB SPOT ELEVATION	675.50
WASHOUT CROWN SECTION	
PROPOSED SIDEWALK (HOMEBUILDER'S RESPONSIBILITY)	
PROPOSED CONCRETE SIDEWALK (CONTRACTOR'S RESPONSIBILITY)	
DRIVEWAY	

PAPE-DAWSON

ENGINEERS

SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLAS
2000 NW LOOP 410 I SAN ANTONIO, TX 78213 I 210.375.9000

STEELE CREEK-UNIT 4A CITY OF CIBOLO, TEXAS

AVALON SAILS AND PROFILE (STA 10+00.00 TO END)

PLAT NO.

JOB NO. 12629-04

DATE NOVEMBER 2024

DESIGNER SS

CHECKED DRAWN SS

SHEET \_\_\_\_\_C2.05

PAVEMENT SECTION DETAIL							
STREET NAME	STATION	TYPE "D" HMAC	CRUSHED LIMESTONE BASE	STABILIZED SUBGRADE	GEOGRID (TENSAR TRIAX TX5)	CBR	STRUCTURAL NUMBER
ROLLING RIVER	10+00.00 TO END	2	11	6	NO	2	2.90
WHITE WATER CREEK	10+00.00 TO END	2	11	6	NO	2	2.90
FAIR SHALLOWS	10+00.00 TO END	2	11	6	NO	2	2.90
CASTLE FALLS	10+00.00 TO END	2	11	6	NO	2	2.90
AVALON SAILS	10+00.00 TO END	2	11	6	NO	2	2.90

## SOIL MAX. SLOPE-1" PER FT. 50' 10' 30' PAVEMENT 5' SIDEWALK SOIL MAX. SLOPE-1" PER FT. SOIL MAX. SLOPE-1" PER FT. 7" CURB & GUTTER CROWN BASE 7" CURB & GUTTER 8" SS WATER MAIN O WATER MAIN O

### (LOCAL TYPE "A") STREET SECTION NOT-TO-SCALE

### SIDEWALK NOTES:

DETECTABLE WARNING AREA

1. WHEN POSSIBLE SIDEWALKS SHOULD BE PLACED NEXT TO THE PROPERTY LINE, ALLOWING A MINIMUM OF 1 FOOT BUFFER. DEVIATION OF THE PATHWAY FROM A STRAIGHT LINE IS ENCOURAGED TO AVOID TREES OR OTHER OBSTRUCTIONS.

2. FOR LOCAL TYPE "A" STREETS, SIDEWALKS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 5' AND IF SEPARATED FROM THE CURB, THE SIDEWALK SHALL BE LOCATED A MINIMUM OF 2' FROM THE BACK OF CURB.

3. FOR OTHER THAN LOCAL TYPE "A" STREETS, SIDEWALKS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 5' AND SEPARATED A MINIMUM OF 2' FROM THE BACK OF CURB OR AS AN OPTION, THE SIDEWALK SHALL HAVE A MINIMUM WIDTH OF 6' WHEN LOCATED AT THE BACK OF CURB.

4. SIDEWALK RAMP LENGTHS PRESENTED IN TABLE 1 ARE GUIDELINES ONLY. SIDEWALK RAMP LENGTHS SHALL BE OF SUFFICIENT LENGTH TO MAINTAIN 8.33% (1:12) MAXIMUM SLOPE.

5. ALL CURB-RAMPS OR LANDINGS ABUTTING THE CROSSWALK SHALL HAVE A DETECTABLE WARNING 24 INCHES DEEP (IN THE DIRECTION OF PEDESTRIAN TRAVEL) AND EXTENDING THE FULL WIDTH OF THE CURB RAMP OR LANDING. THE DETECTABLE WARNING SHALL CONSIST OF RAISED TRUNCATED DOMES, ALIGNED IN A GRID PATTERN WITH A DIAMETER OF A NOMINAL 0.9 INCHES (23 MM), A HEIGHT OF NOMINAL 0.2 INCHES (5 MM) AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCHES

6. DETECTABLE WARNINGS SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE.

7. SIDEWALK RAMP TYPE V SHALL BE USED ONLY WHERE THERE IS SIGNIFICANT RESTRICTION WITHIN THE PARKWAY TO CONSTRUCT TYPE LORD TYPE III. PANDS

8. CONSTRUCTION OF ALL WHEELCHAIR RAMPS TO BE INCLUDED UNDER ITEMS "500 — CONCRETE CURBING", "501 — MACHINE LAID CURB" AND / OR "502 — CONCRETE SIDEWALKS". RAMP SURFACE SHALL BE BRUSH FINISHED.

9. THESE DETAILS ARE FOR REFERENCE ONLY. ACTUAL LOCATIONS OF WHEELCHAIR RAMPS TO BE SHOWN ON CONSTRUCTION PLANS. CITY CONSTRUCTION INSPECTOR CAN ADJUST LOCATIONS FOR SAFETY OR UTILITY CLEARANCE.

10. SIDEWALKS LESS THAN 5 FEET IN WIDTH SHALL BE PROVIDED WITH A PASSING SPACE AT A MAXIMUM SPACING OF 200

11. WHEELCHAIR RAMP SHALL BE CONSTRUCTED WITH 4" CLASS "A" CONCRETE AND 2" GRAVEL, CRUSHED ROCK OR FLEXIBLE BASE MATERIAL.

12. REINFORCING STEEL SHALL BE #3 BARS AT 18" O.C.E.W. OR 6" x 6" — W2.9 x W2.9 WIRE MESH.

13. SIDEWALK GRADES SHALL NOT EXCEED THE GRADE ESTABLISHED FOR THE ADJACENT ROADWAY, ANY SIDEWALK CONSTRUCTION THAT DEVIATES FROM THE NATURAL GRADE OF THE ROADWAY TO CREATE A GRADE STEEPER THAN THE EXISTING ROADWAY WILL REQUIRE RAMPS, HANDRAILS AND RESTING PLATFORMS TO BE CONSTRUCTED IN ACCORDANCE WITH

14. SIDEWALK CROSS GRADE SHALL HAVE A MAXIMUM SLOPE OF 2%. LANDINGS SHALL HAVE A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.

ANY DIRECTION.

15. THE CHANGE OF GRADE BETWEEN ADJACENT SURFACES SHALL BE LESS THAN 11%. THE CHANGE OF GRADE SHALL BE

8.33-(-2.67)=11). IN ADDITION, THE ADJACENT PAVEMENT CROSS SLOPE SHALL BE LESS THAN OR EQUAL TO 5%.

16. IF THE CHANGE OF GRADE BETWEEN ADJACENT SURFACES IS GREATER THAN OR EQUAL TO 11%, A LEVELING STRIP, 2 FEET IN LENGTH, SHALL BE PROVIDED TO TRANSITION THE ADJACENT SURFACES.

17. ADA COMPLIANCE IN ALTERATIONS INCLUDE ONLY THAT WORK WITHIN THE LIMITS, BOUNDARIES OR SCOPE OF A PLANNED

DEFINED AS THE ALGEBRAIC DIFFERENCE OF THE ADJACENT SURFACE SLOPES. IN THE CASE OF A STREET ACCESS RAMP

DESIGNED AT THE 8.33% MAXIMUM SLOPE, THE ADJACENT PAVEMENT CROSS SLOPE SHALL BE LESS THAN 2.67% (I.E.

LANDING DR RAMP WIDTH

TYPICAL
CONCRETE
SIDE WALK

TYPICAL

TYPICAL SIDEWALK PASSING SPACE

SIDEWALK PASSING SPACE

SIDEWALK PASSING SPACE

SIDEWALK SIDEWALK STIDEWALK PASSING SPACE

SIDEWALK SIDEWALK STIDEWALK PASSING SPACE

SIDEWALK STIDEWALK STIDEWALK PASSING SPACE

SIDEWALK SIDEWALK RAMP — TYPE I

USED AT TEE INTERSECTIONS WHERE SIDEWALK ABUTS CURB

SCALE: 1'=5'

### GENERAL NOTES:

TO PLACEMENT OF AGGREGATE BASE.

- CONTRACTOR SHALL REFERENCE THE PROJECT PAVEMENT DESIGN REPORT NO. S181023-P PREPARED BY InTEC, L.P. DATED FEBRUARY 15, 2018.
- 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 LIME STABILIZATION IS REQUIRED.

  3. GEOTECHNICAL ENGINEER SHOULD VERIFY THE STREET SUBGRADE AT THE TIME OF CONSTRUCTION PRIOR
- 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
- 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
- 7. WHERE PAVEMENT SUBGRADE IS LOCATED WITHIN 2—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 2. 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. 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:

2' MIN. DETECTABLE WARNING. SEE NOTE 5.

TYPICAL SIDEWALK RAMP - TYPE

SCALE : 1"=5"

- 1. THE SUBGRADE PLASTICITY INDEX VALUE IS EXPECTED TO BE GREATER THAN 20. SUBGRADE STABILIZATION IS NEEDED.
- 2. THE SUBGRADE SHOULD BE STABILIZED USING 6.5 PERCENT LIME TO A DEPTH OF 6 TO 8 INCHES AS NOTED IN THE GEOTECH REPORT.
- 3. 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.
- 4. LIME APPLICATION RATE OF 29.5 LBS PER SQ YARD FOR 6 INCH DEPTH OF STABILIZATION IS RECOMMENDED.
- 5. APPROVED FILL MATERIAL SHOULD BE USED TO RAISE THE GRADE. THE FILL SHOULD BE FREE OF DELETERIOUS MATERIAL WITH A MINIMUM CBR VALUE OF 2.0. LIME APPLICATION RATES SHOULD BE RE-EVALUATED AND TESTED FOR SULFATE CONTENT PRIOR TO USE OF THE FILL MATERIAL. THE
- 6. THE SUBGRADE SHOULD BE PROOF ROLLED TO IDENTIFY SOFT AREAS BEFORE STABILIZATION.

<u> TYPICAL SIDEWALK RAMP - TYPE III</u>

SIDEWALK SEPARATED FROM CURB SCALE : 1"=5'

TYPICAL SIDEWALK RAMP - TYPE IV

USED AT TEE INTERSECTIONS WHERE SIDEWALK IS SEPARATED FROM CURB

- 7. IN LIEU OF STABILIZATIONG, 3x5 ROCK SUBGRADE MAY BE USED.
  7.1. 3x5 ROCK MAY BE INSTALLED ON TOP OF COMPACTED SUBGRADE. THE SUBGRADE SHOULD BE GRADED IN SUCH A WAY THAT ANY WATER WITHIN THE 3x5 ROCK LATER SHOULD DRAIN TOWARDS THE CURRS
- 7.2. 3x5 ROCK SHOULD BE WRAPPED IN GEOTECH (FILTER) FABRIC

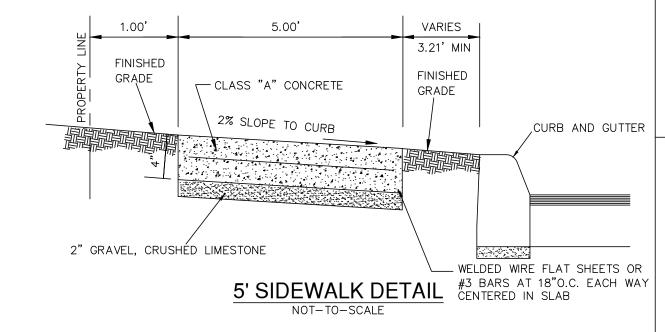
MATERIAL SHOULD BE PLACED AS PER APPLICABLE CITY GUIDELINES.

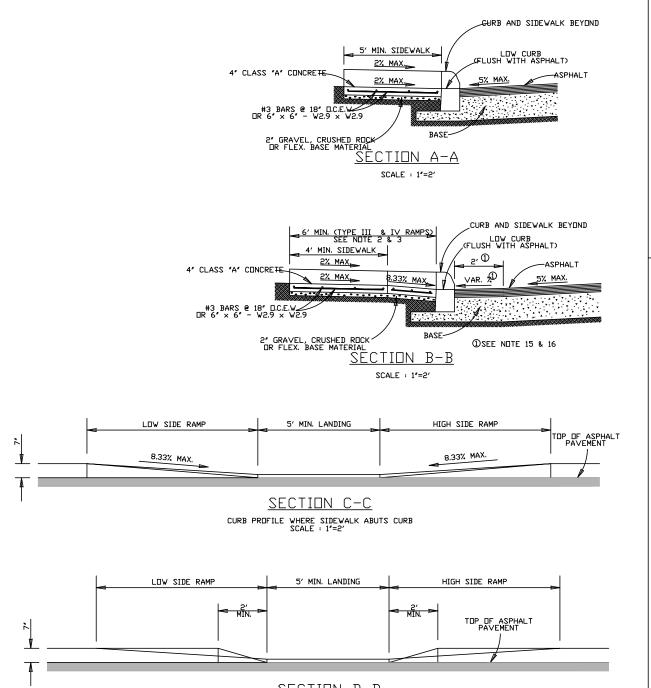
- 7.3. ANY WATER TRAVELING WITHIN THE 3x5 ROCK LAYER SHOULD NOT BE ALLOWED TO POND. THE WATER WITHIN THE 3x5 ROCK LAYER SHOULD BE INTERCEPTED AND TAKEN AWAY
- 7.4. THE GEOTECH REPORT RECOMMENDS THAT APPROXIMATELY 2 INCHES OF BASE BE INSTALLED ON TOP OF 3x5 ROCK; SO THAT THE BASE IS COMPACTED WITHIN THE 3x5 ROCK LAYER
- 7.5. IF GEOGRID OPTION IS CHOSEN ALONG WITH 3x5 ROCK SUBGRADE, A LAYER OF GEOGRID, TENSAR TX5, SHOULD BE INSTALLED IN THE FOLLOWING SEQUENCE: COMPACTED SUBGRADE, 3x5 ROCK WRAPPED IN FILTER FABRIC, 3 INCHES OF COMPACTED BASE, A LAYER OF GEOGRID, REMAINING BASE

GENERAL NOTES

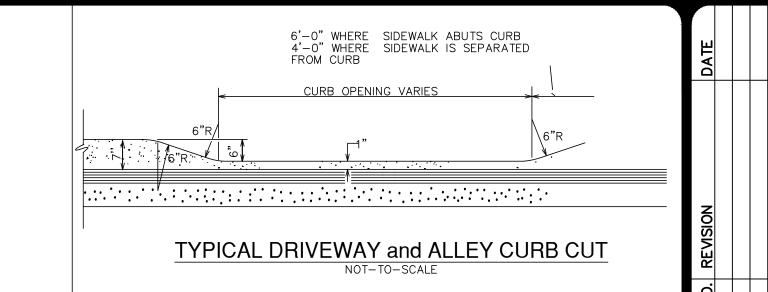
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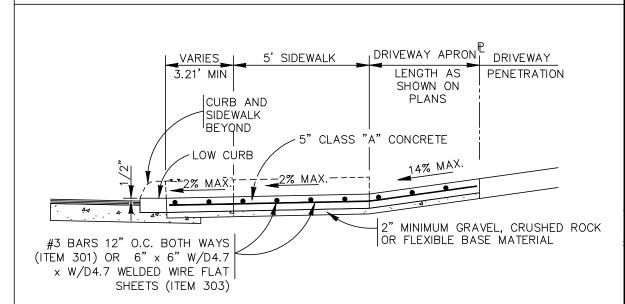
PLAN DETAIL



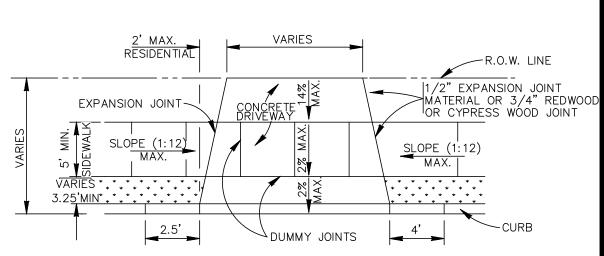


CURB PROFILE WHERE SIDEWALK IS SEPARATED FROM CURB SCALE : 1'=2'

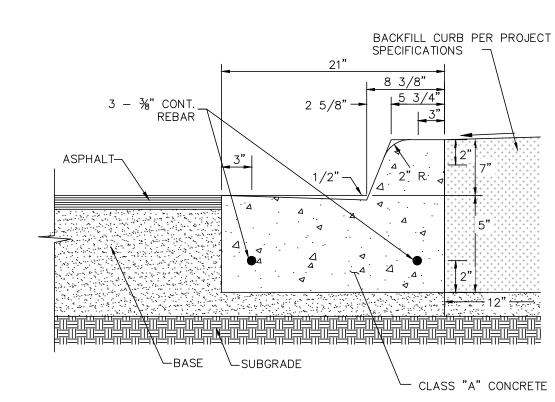




### TYPICAL RESIDENTIAL DRIVEWAY SECTION NOT-TO-SCALE

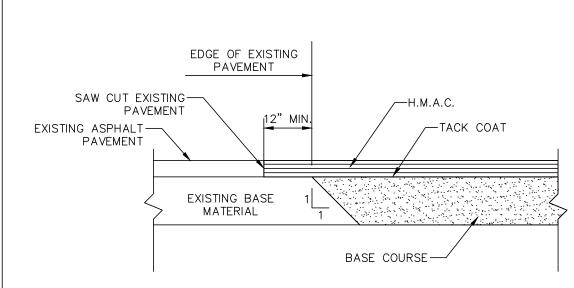


### TYPICAL DRIVEWAY PLAN VIEW



STANDARD CURB AND GUTTER DETAIL

NOT-TO-SCALE



ASPHALT/ASPHALT JUNCTURE DETAIL

TWSON
ERS
FORT WORTH I DALLAS
K 78213 I 210.375.9000
JRVEYING FIRM #10028800

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NLY under the authorizati

of Rebecca Carroll, P.E.

#92666 on 12/2/2024

This document is not to be

used for CONSTRUCTION.

12/02/24

SAN ANTONIO I AUSTIN I HOUSTON I FORT 2000 NW LOOP 410 I SAN ANTONIO, TX 782

SAN ANTONIG

EELE CREEK-UNIT 4

PLAT NO.

JOB NO. 12629-04

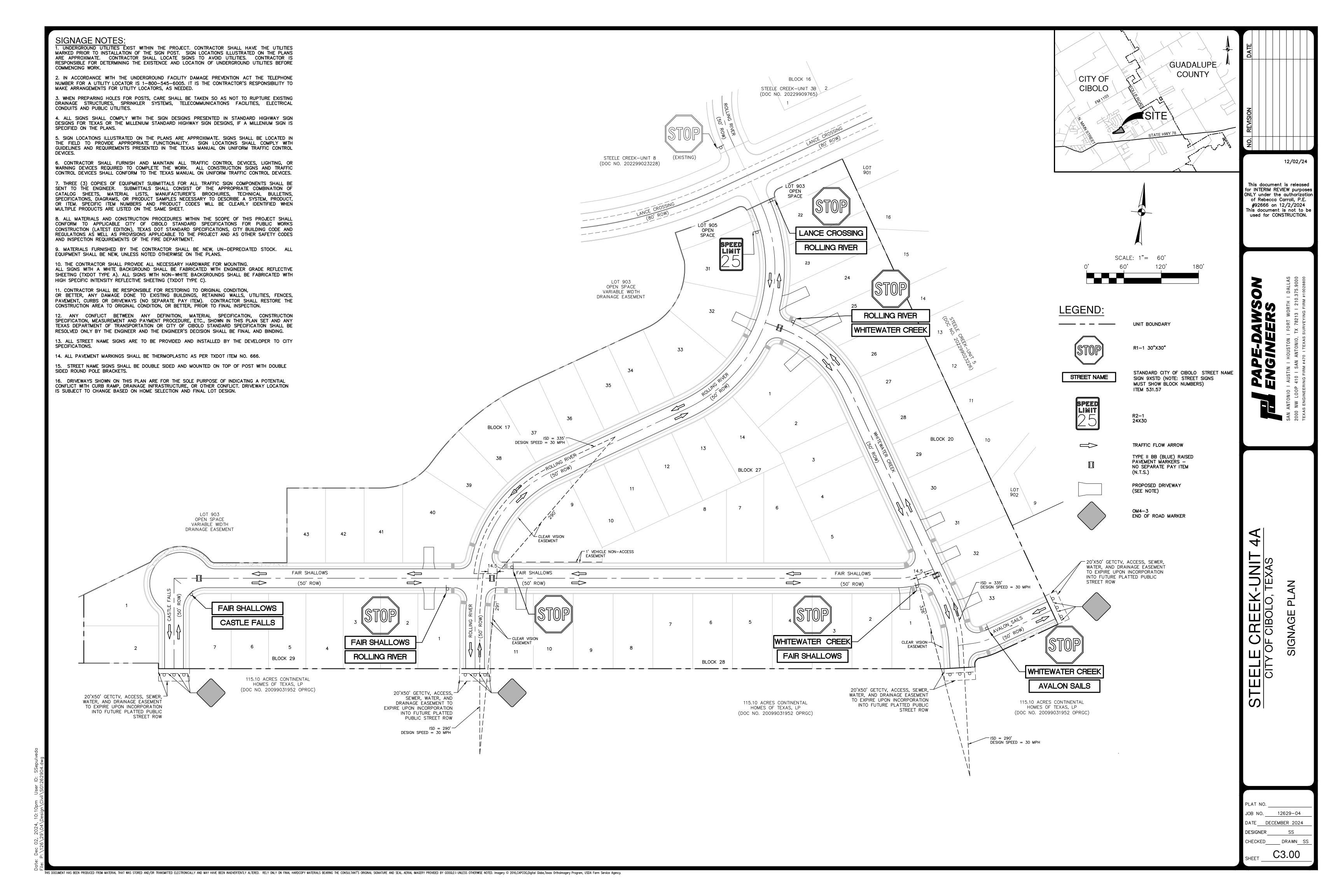
DATE DECEMBER 2024

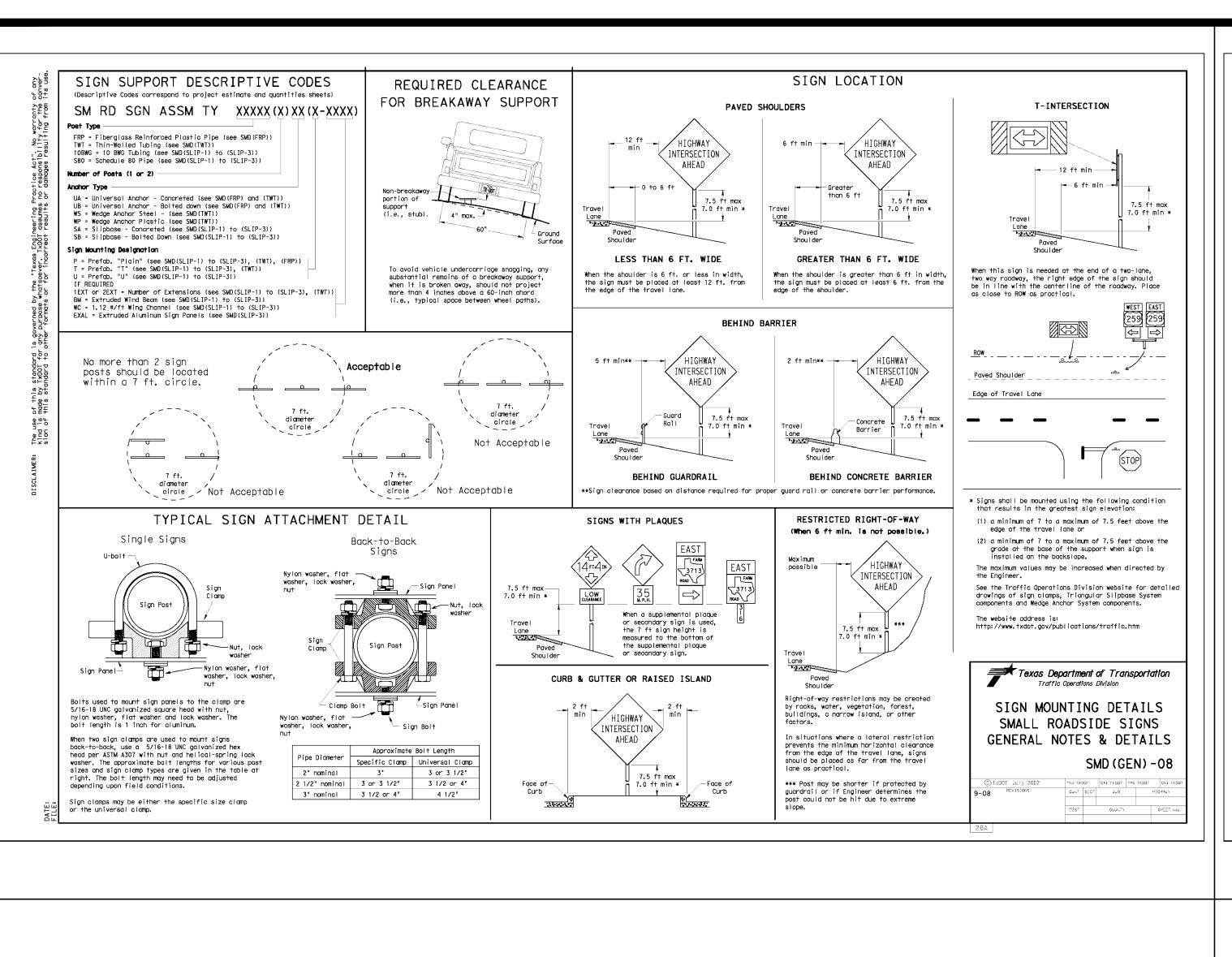
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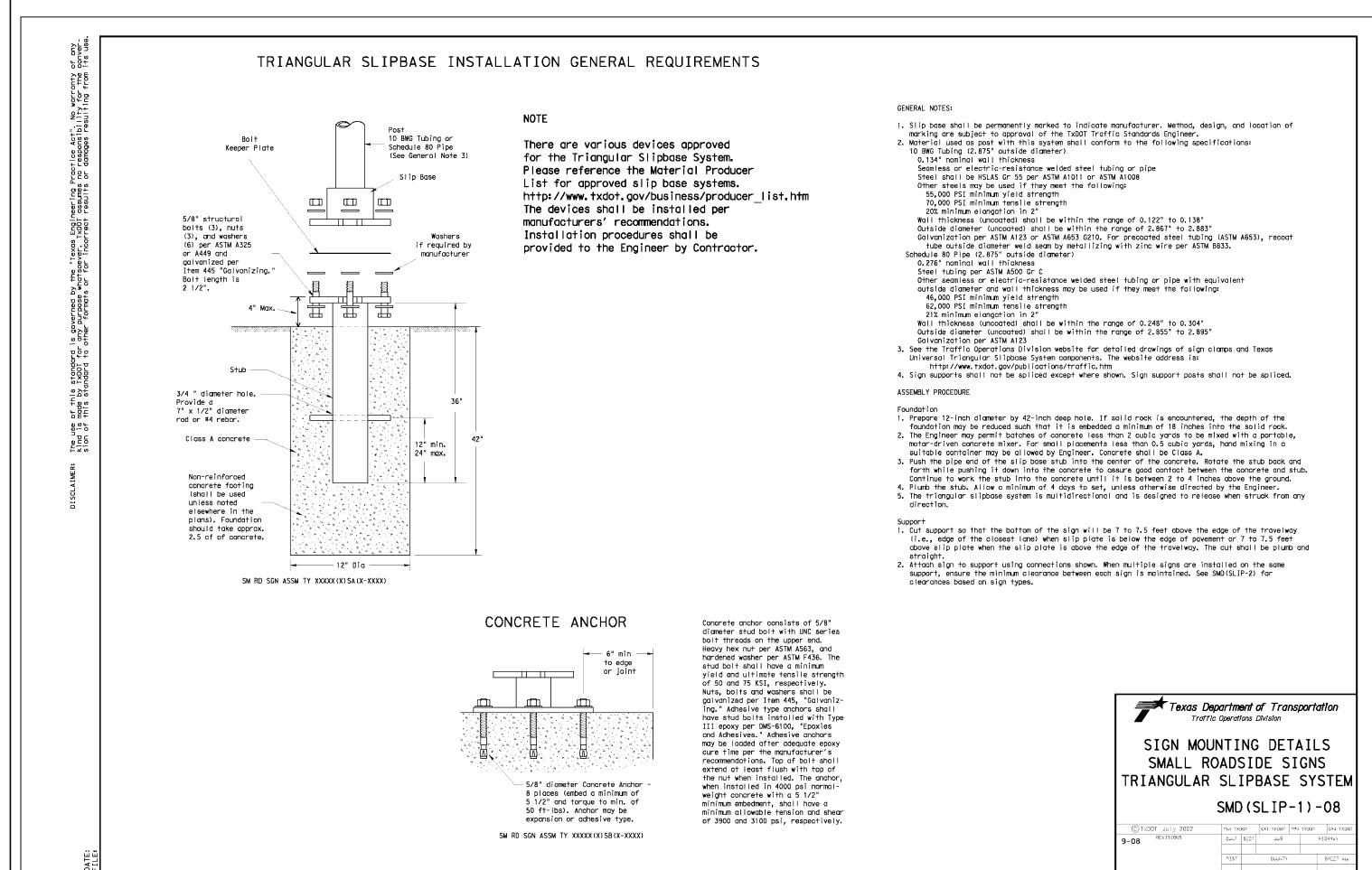
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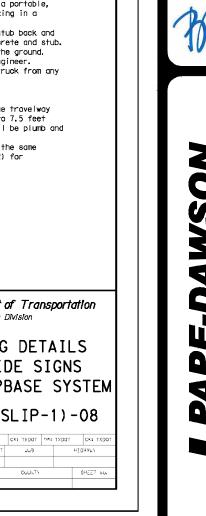
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09/11/23

EBECCA ANN CARRO

 $\Box$   $\leftarrow$ IGNAGE (SHEE

12629-04 DESIGNER DRAWN CM C3.10

GENERAL NOTES: 1. SIGN SUPPORT # OF POSTS MAX. SIGN AREA — 0.25 Н 5/16" x 2 1/2 3/8" x 4" heavy hex bolt with nut, lock washer Drill 7/16" hole hex bolt with nut, lock washer, and 2 flat washers per ASTM 2 flat washers assembly and install per ASTM A307 See Detail ( Item 445 "Galvanizing. galvanized per washers and 2. The Engineer may require that a Schedule 80 post be Item 445, lock washer. used in place of a 10 BWG where a sign height is abnormally high due to a fill slope.

3. Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced. --- 0.15₩ -----"Galvanizing. Extender \_\_\_ A Aluminum sign blanks shall conform to Departmental Material Specifications DMS-7110 and shall have the following minimum thicknesses: 0.080 for signs less than 7.5 sq. ft., 0.100 for signs 7.5 to 15 sq. ft., and 0.125 for signs greater than 15 sq. ft. SM RD SGN ASSM TY XXXXX(1)XX(T-2EXT) (\* - See Note 12) and 0.1.25 for signs greater from 15 sq. 11.

Signs that require specific supports due to reasons in addition to windloading are indicated on the "REQUIRED SUPPORT" table on this sheet.

6. For horizontal rectangular signs fabricated from flat aluminum, T-brackets are used for signs 24 inches or Side View Detail ( Extruded Alum. Windbeam (See Detail D on SMD (SLIP-2)) or 1.12 #/ft Wing Channel (See Detail A and Detail B) Splices shall only be allowed behind the sign substrate. Detail B less in height. U-brackets are used for signs of greater height.

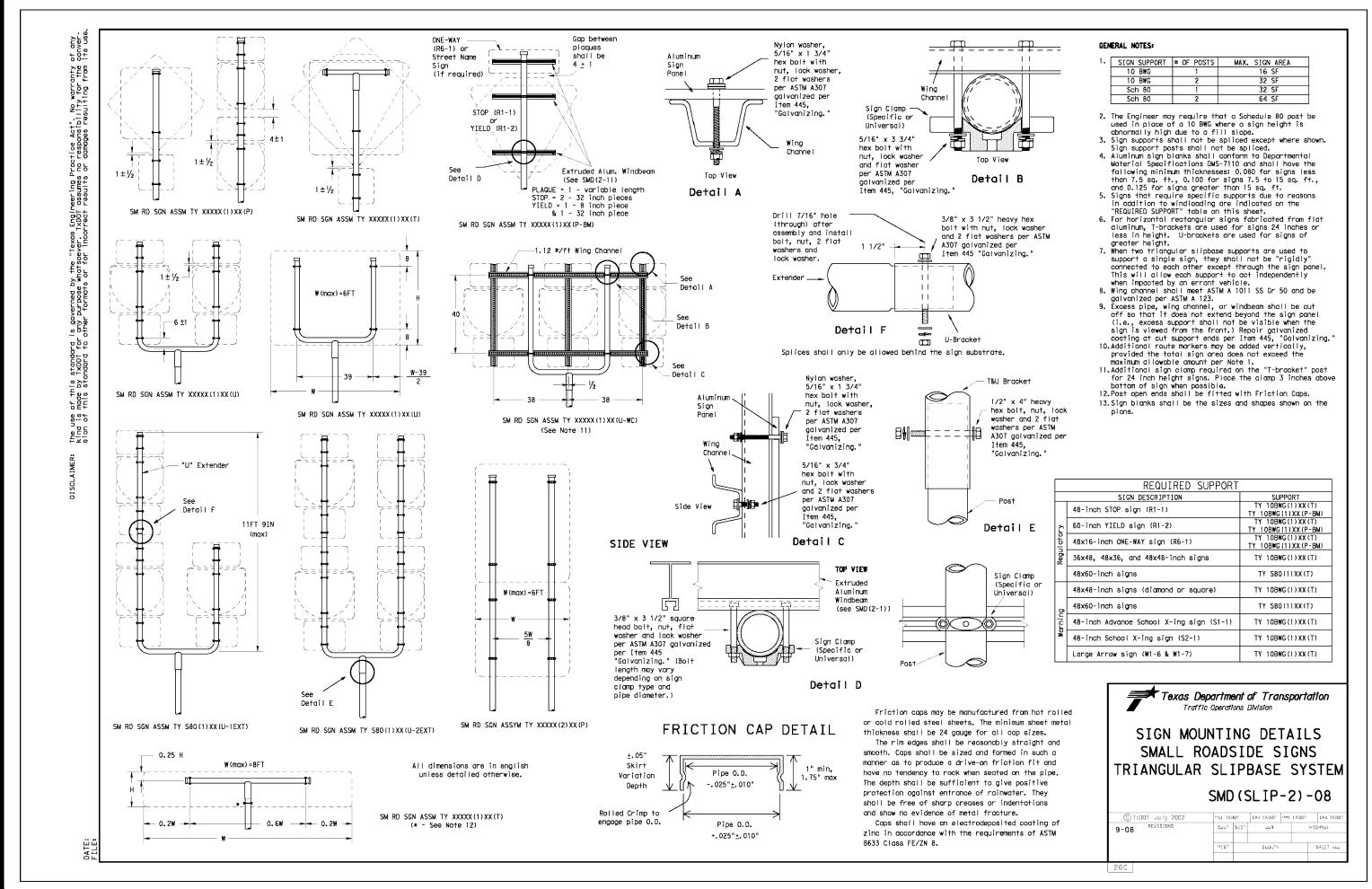
7. When two triangular slipbase supports are used to support a single sign, they shall not be "rigidly" connected to each other except through the sign panel. This will allow each support to act independently when imported by an errort vehicle. when impacted by an errant vehicle.

8. Wing channel shall meet ASTM A 1011 SS Gr 50 and be galvanized per ASTM A 123.

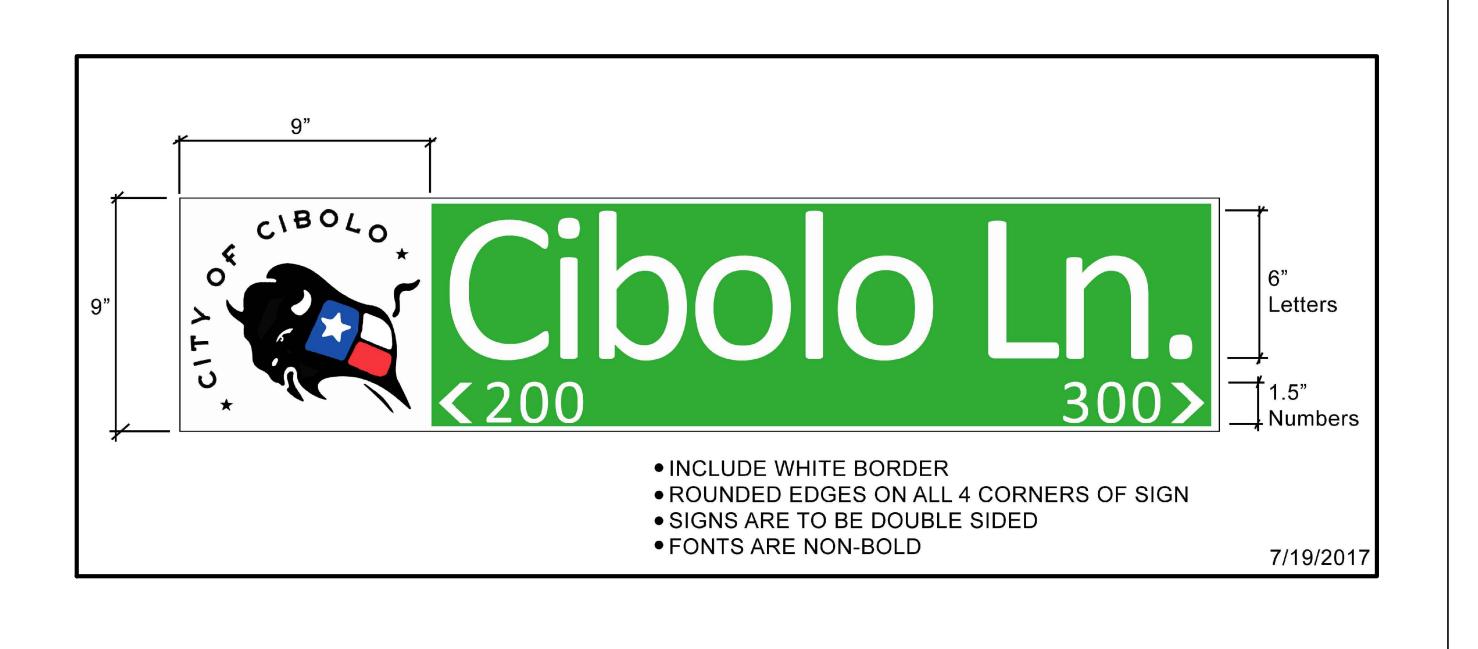
9. Excess pipe, wing channel, or windbeam shall be cut w variable \_See Detail A Universali off so that it does not extend beyond the sign panel (i.e., excess support shall not be visible when the sign is viewed from the front.) Repair galvanized coating at cut support ends per Item 445, "Galvanizing." 10. Sign blanks shall be the sizes and shapes shown on the plans.

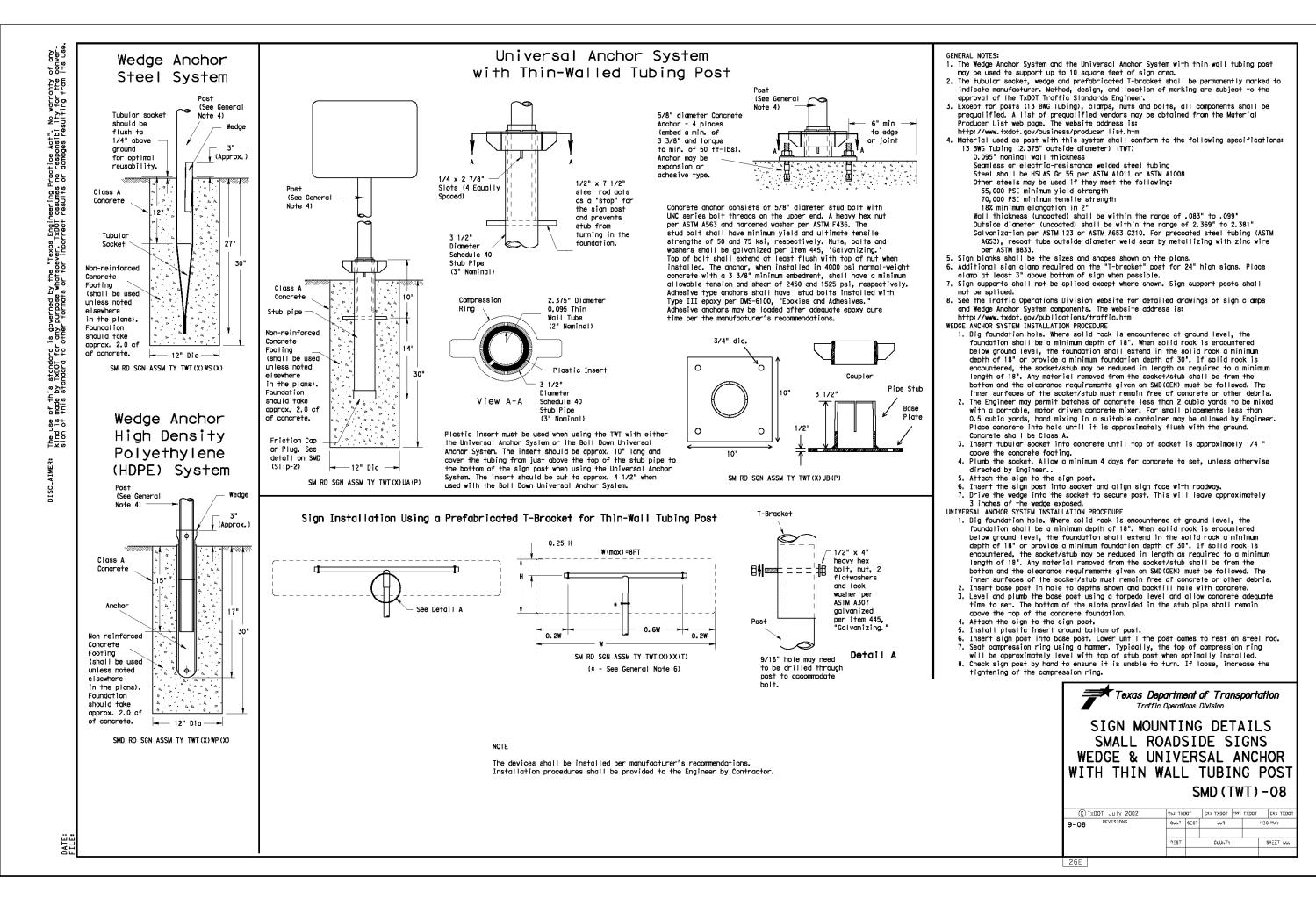
11. Additional sign clamp required on the "T-bracket" post for 24 inch high signs. Place the clamp 3 inches above variable | bottom of sign when possible.

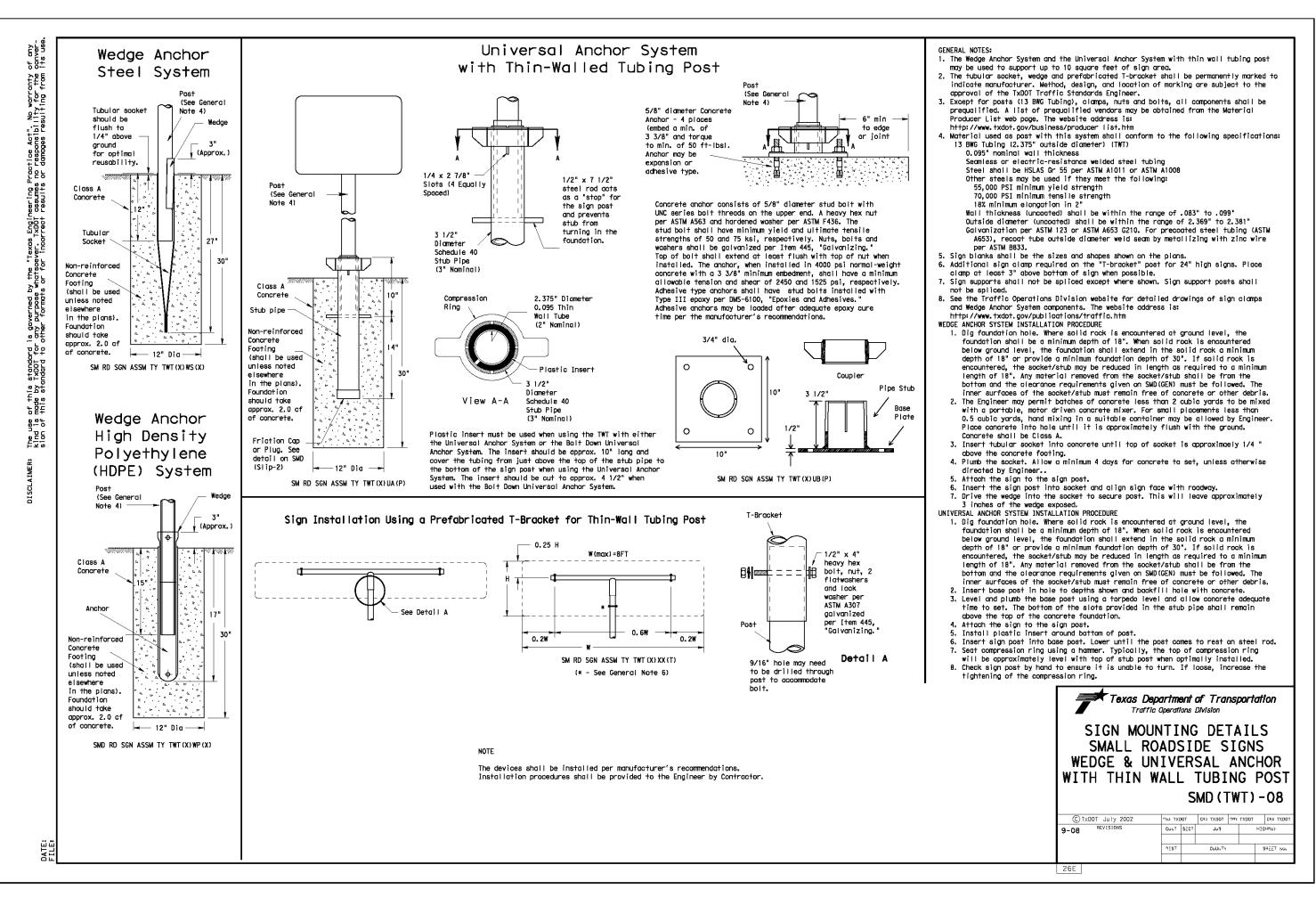
12. Post open ends shall be fitted with Friction Caps. SM RD SGN ASSM TY XXXXX(1)XX(U-XX) 3/8" x 4 1/2" square head bolt, nut, flat washer and lock washer per ASTM A307 galvanized \_ S3x5.7 REQUIRED SUPPO attached with SIGN DESCRIPTION post clamps (See SMD(2-1) 2 7/8" O.D. (Specific or 48-inch STOP sign (R1-1) Sch. 80 Detail E 60-inch YIELD sign (R1-2) details) / 10BWG(1)XX(P-BM) Typical Sign Mount Nylon washer See Detail E 48x16-inch ONE-WAY sign (R6-1) SM RD SGN ASSM TY S80(2)XX(P-EXAL 10BWG (1) XX (P-BM) for clamp installation hex bolt with 36x48, 48x36, and 48x48-inch signs \* Additional stiffener placed at approximate center TY 10BWG(1)XX(T) ut, lock washer of signs when sign width is greater than 10'. 2 flat washers 48x60-inch signs TY S80(1)XX(T) per ASTM A307 6" | galvanized per Item 445, TY 10BWG(1)XX(T) 48x48-inch signs (diamond or square) 6" panel should Detail A "Galvanizing. be placed at the top of 48x60-inch signs TY S80(1)XX(T) sign for proper mounting. 48-inch Advance School X-ing sign (S1-Y 10BWG(1)XX(T) 48-inch School X-ing sign (S2-1) TY 10BWG(1)XX(T) (Specific or Large Arrow sign (W1-6 & W1-7) TY 10BWG(1)XX(T) Universal) Texas Department of Transportation Nylon washer, 5/16" x 4 1/2" hex bolt with nut, lock washer, 2 flat washers Use Extruded Alum. Windbeam as stiffeners See SMD (2-1) for additional details SIGN MOUNTING DETAILS T Bracket per ASTM A307 See Detail E galvanized per SMALL ROADSIDE SIGNS for clamp installation RIANGULAR SLIPBASE SYSTEM 2 7/8" O.D. steel pipe SMD(SLIP-3)-08 Aluminum Panel Extruded Aluminum Sign With T Bracket EXTRUDED ALUMINUM SIGN WITH T BRACKET

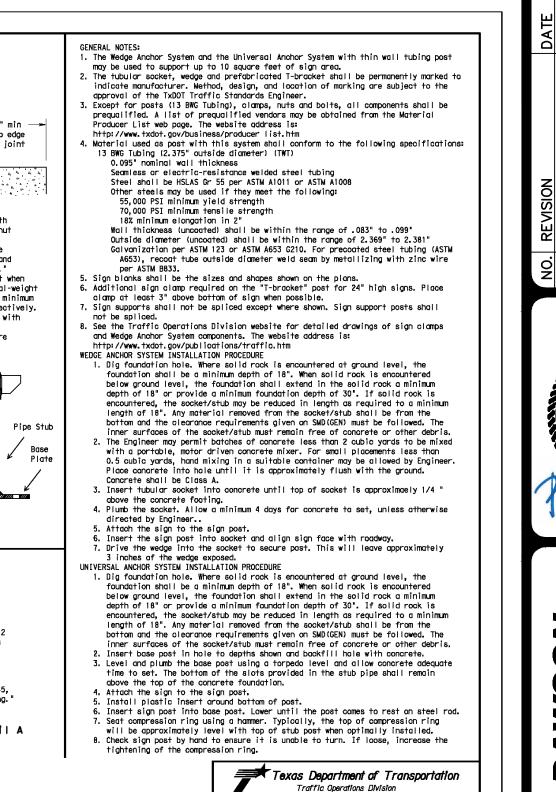


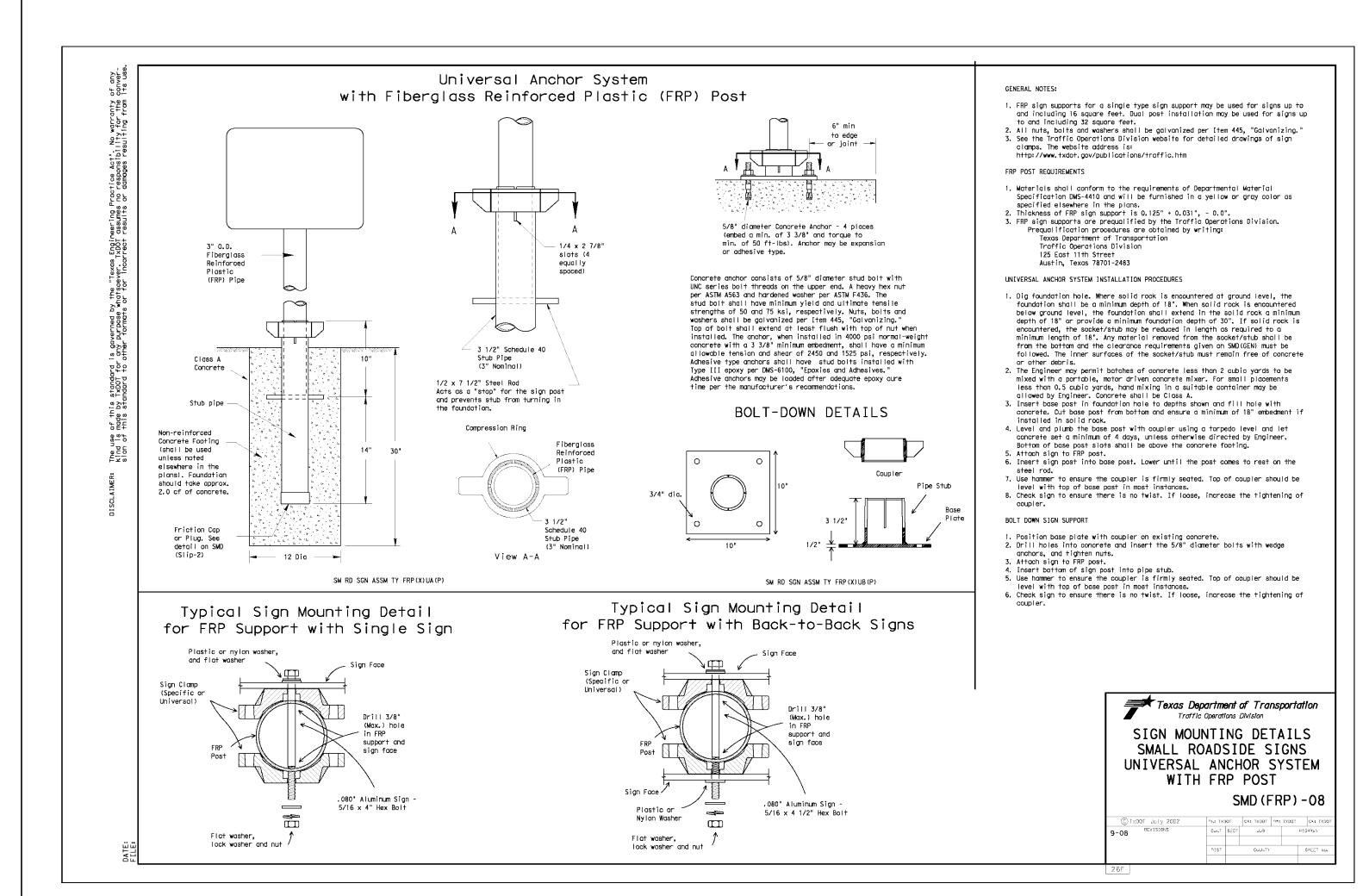
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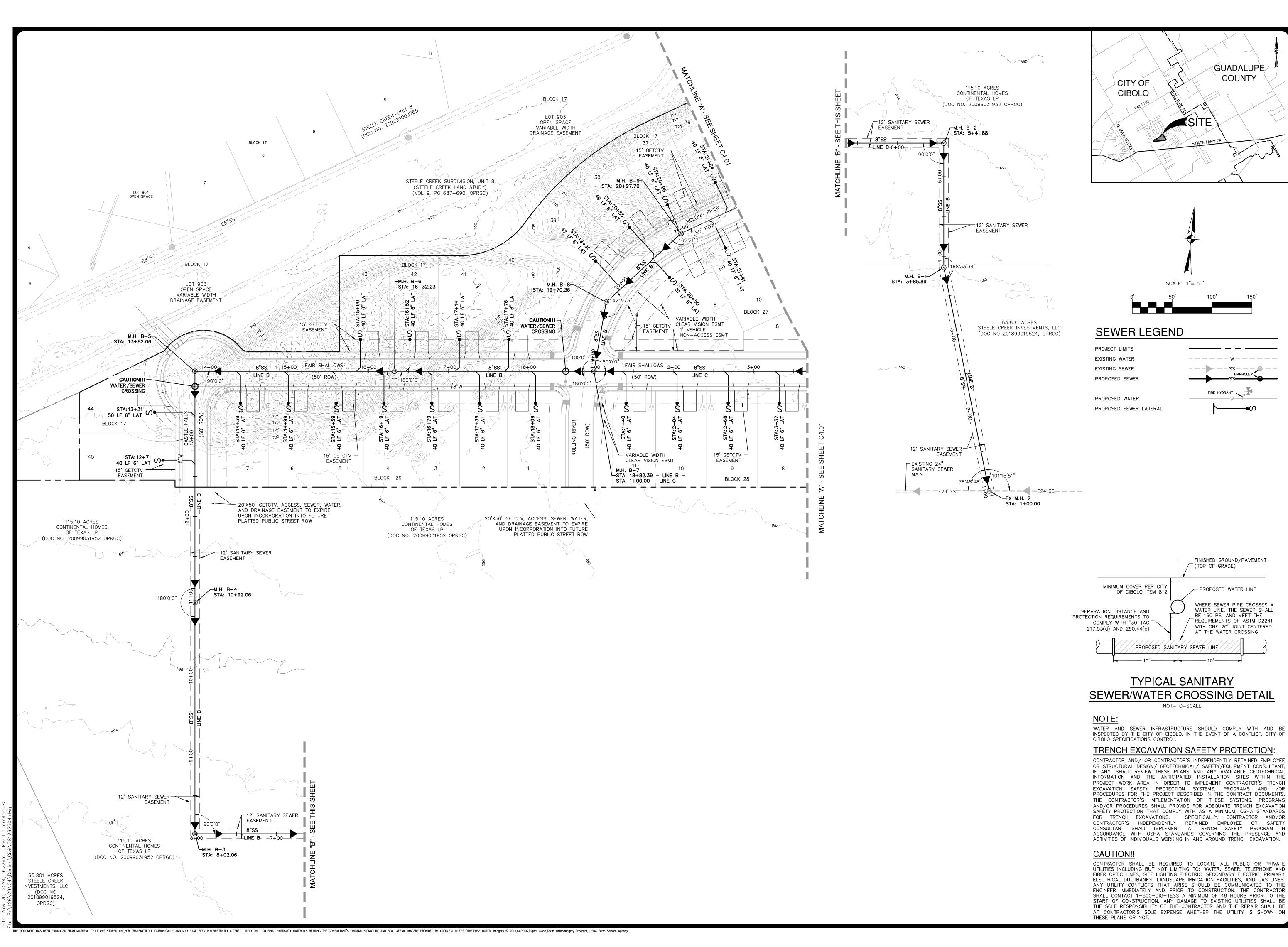
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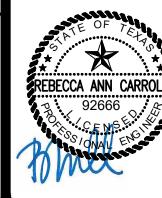
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JOB NO. 12629-04 DESIGNER DRAWN CM

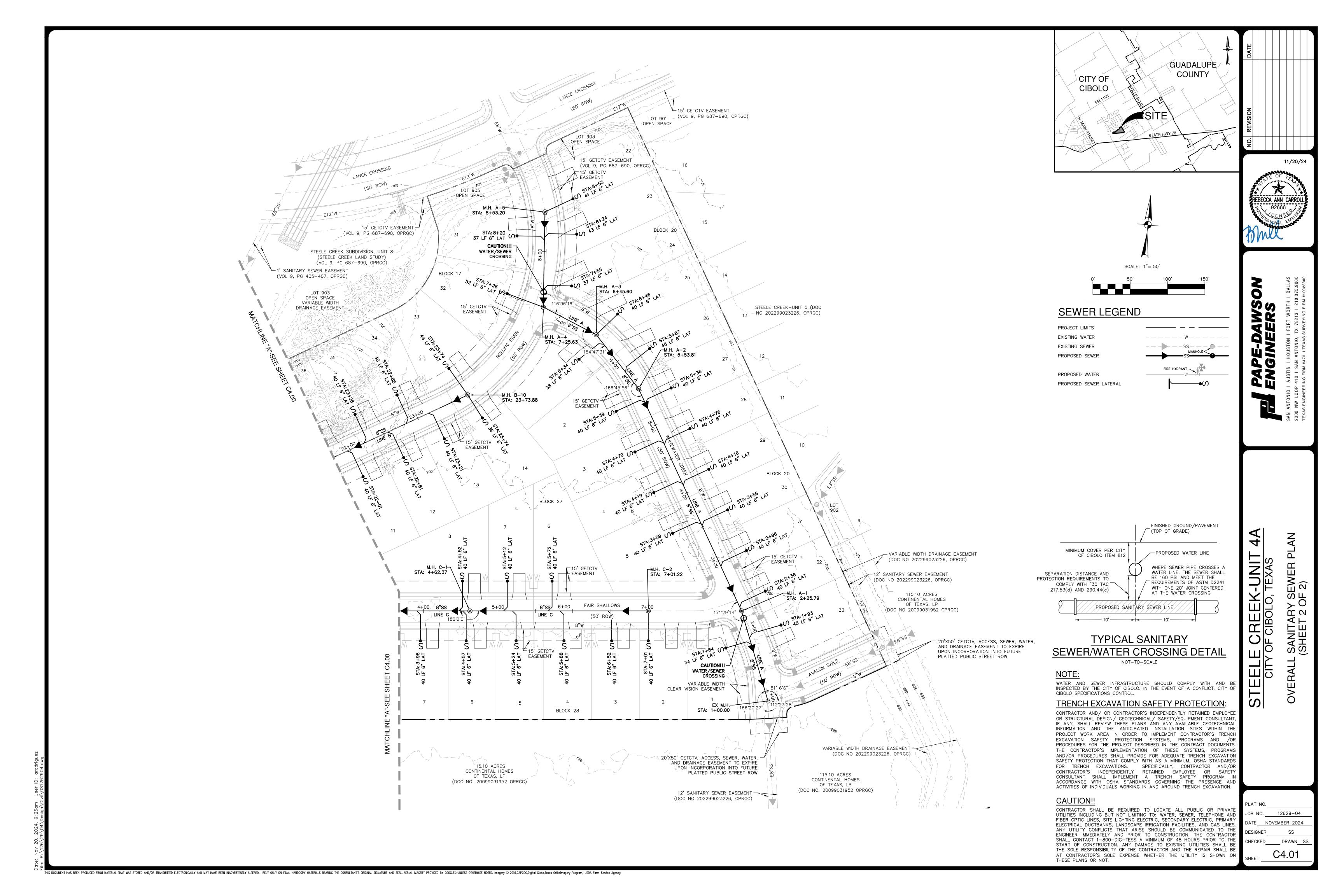
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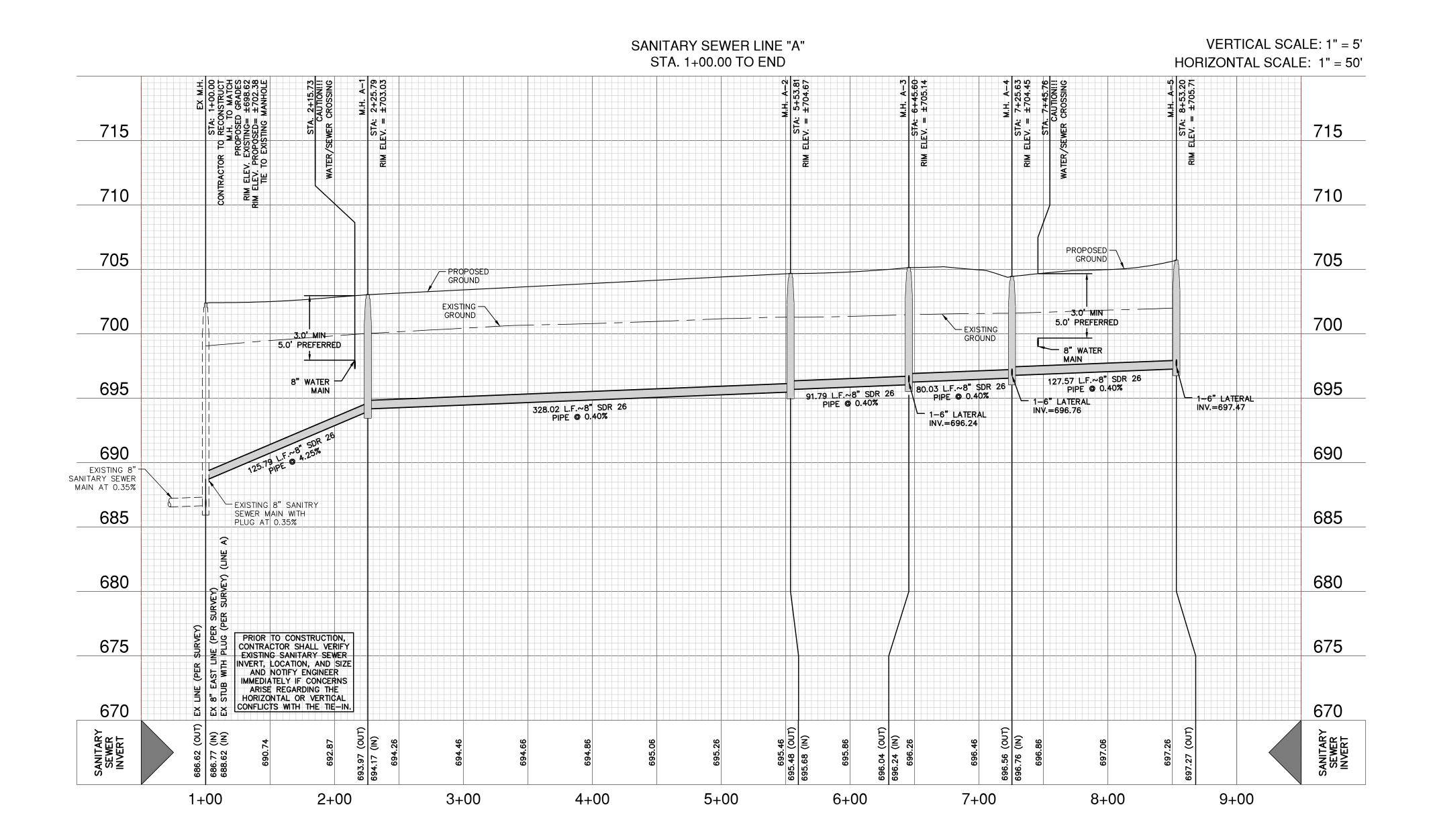


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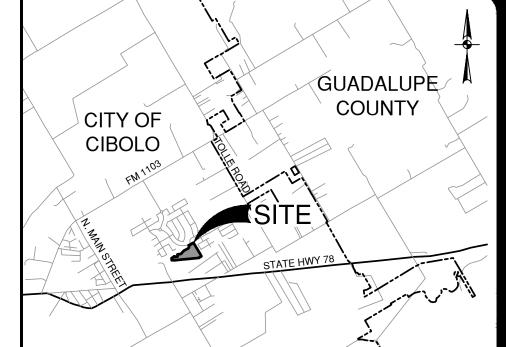


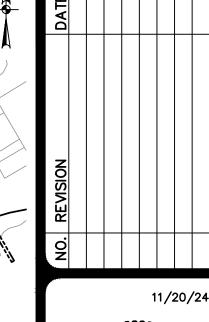
JOB NO. 12629-04 ATE NOVEMBER 2024 DESIGNER



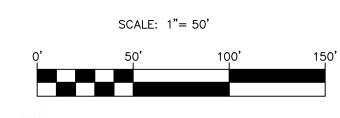


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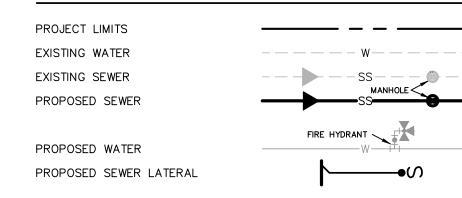








### SEWER LEGEND



1. ALL RESIDENTIAL SEWER SERVICE LATERALS ARE 6" DIA. AND SHALL BE

THE REQUIREMENTS OF ASTM D2241 WITH ONE 20' SEGMENT CENTERED AT

3. NO VERTICAL STACKS ALLOWED FOR ANY LOTS UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.

4. ALL 6" SEWER LATERALS WILL BE SET AT 2% GRADE FROM THE MAIN TO THE PROPERTY LINE.

5. WHEN HORIZONTAL DISTANCE BETWEEN SEWER PIPES AND WATER MAIN IS LESS THAN 9 FOOT OF SEPARATION, SEWER MAIN SHALL BE INSTALLED WITH 150 PSI (MIN) PRESSURE PIPE AND FITTINGS IN ACCORDANCE WITH TCEQ FOR CONSTRUCTION OF SEWER MAINS IN THE VICINITY OF WATER MAINS. (SEE SEWER NOTES SHEET C4.10)

6. CONTRACTOR SHALL ENSURE THAT MANHOLES OUTSIDE OF PAVED AREAS ARE SET WITH TOP ELEVATIONS 3" ABOVE FINISHED GRADE WITH CONCRETE RING ENCASEMENT.

7. CONTRACTOR IS TO VERIFY INVERT OF EXISTING SANITARY SEWER MAIN AND ALERT ENGINEER IMMEDIATELY OF ANY DIFFERENCE FROM INVERT SHOWN ON

8. CONTRACTOR SHALL PROTECT ALL EXISTING FENCES. ANY FENCE DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR

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12. ALL SANITARY SEWER PIPE SHALL BE SDR 26 (CLASS 160) PVC PIPE. 13. MANHOLE OPENINGS INCREASED TO 30" AS PER TAC CHAPTER 217.55

14. CONTRACTOR SHALL ADD EPOXY COATING TO INSIDE OF ALL PROPOSED

15. NO SEWER LATERAL LINES OR CLEANOUTS WILL BE ALLOWED IN OR UNDER RESIDENTIAL DRIVEWAYS.

16. SEWER INFRASTRUCTURE SHOULD COMPLY WITH AND BE INSPECTED BY THE CITY OF CIBOLO. IN THE EVENT OF A CONFLICT, CITY OF CIBOLO

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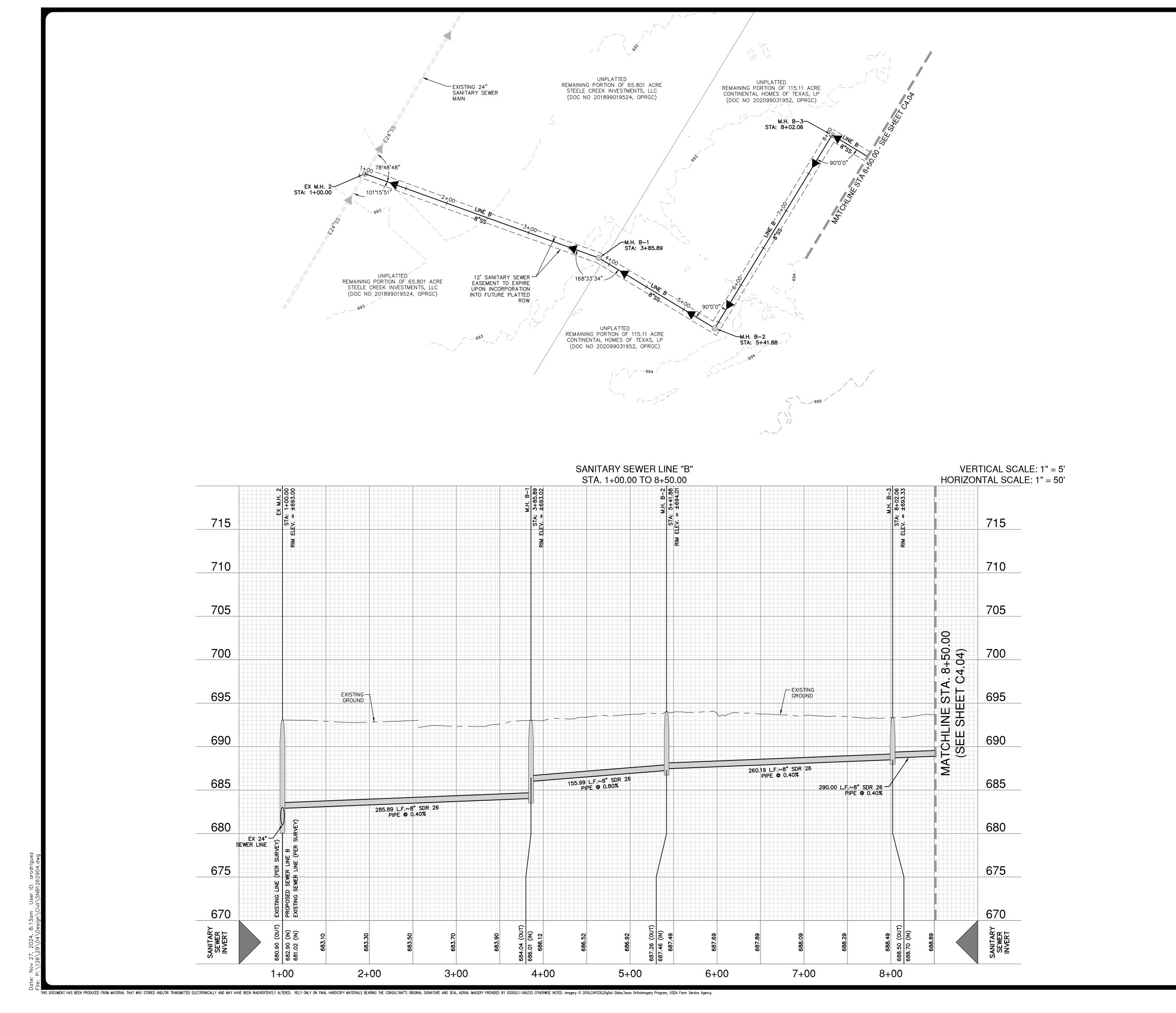
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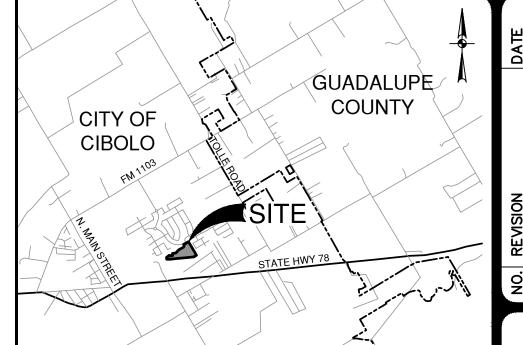
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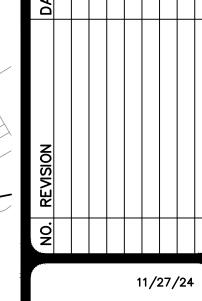
3Y SEWER LINE AND PROFILE

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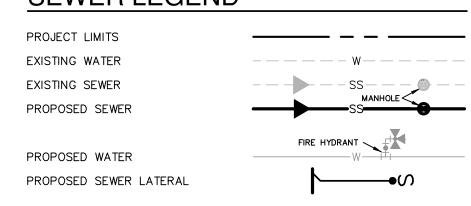






SCALE: 1"= 50'

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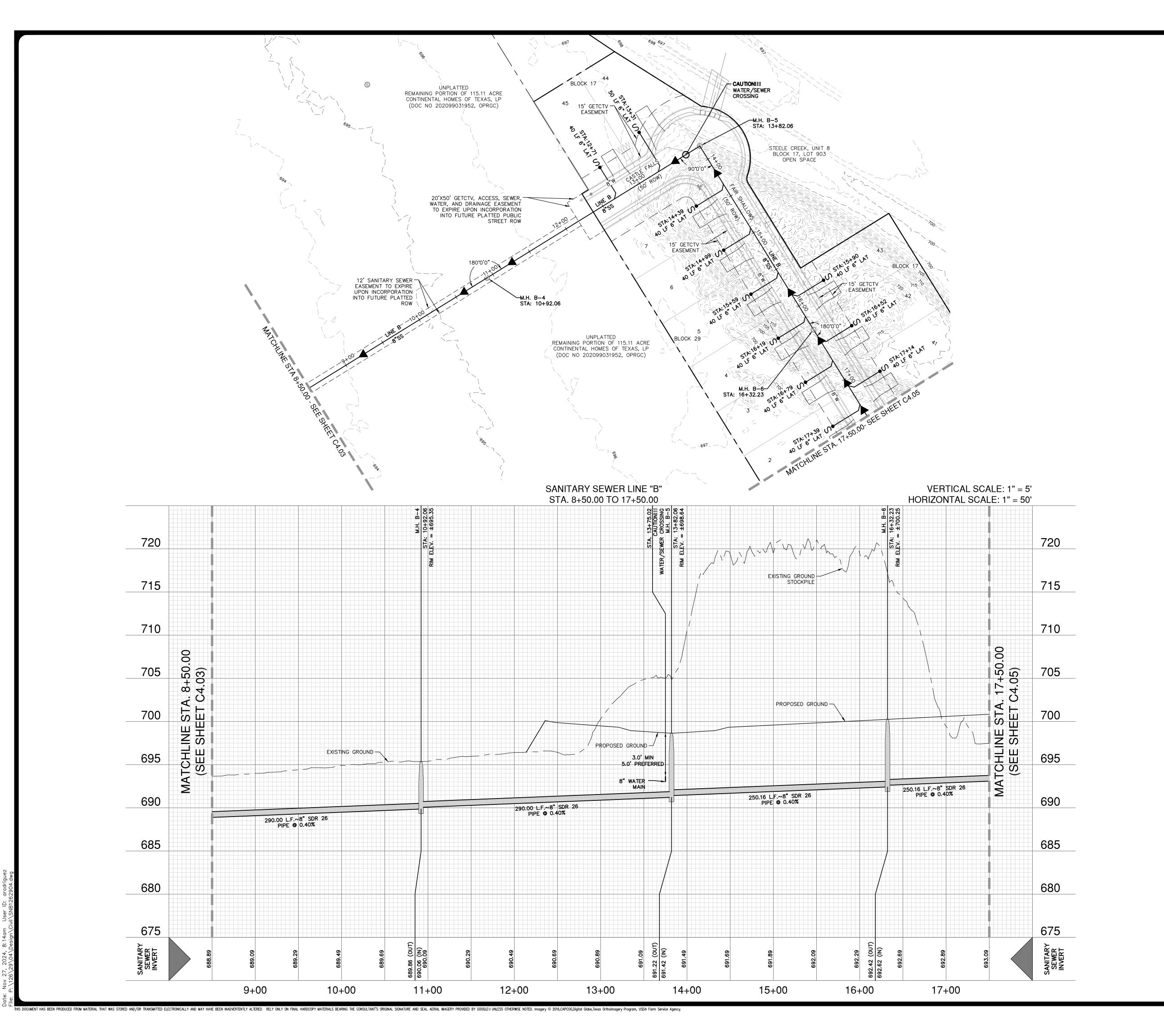
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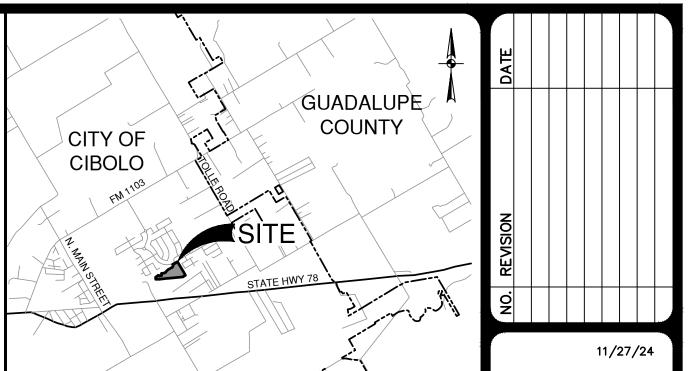
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JOB NO. 12629-04 DATE NOVEMBER 2024 DESIGNER CHECKED DRAWN SS

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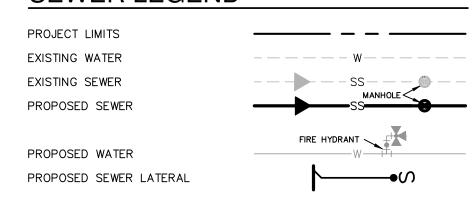




SCALE: 1"= 50'

0' 50' 100' 150

### SEWER LEGEND



### **NOTES**

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STEELE CREEK-UNIT
CITY OF CIBOLO, TEXAS

/ER LINE 8+50.00 <sup>7</sup>

AND

PLAT NO.

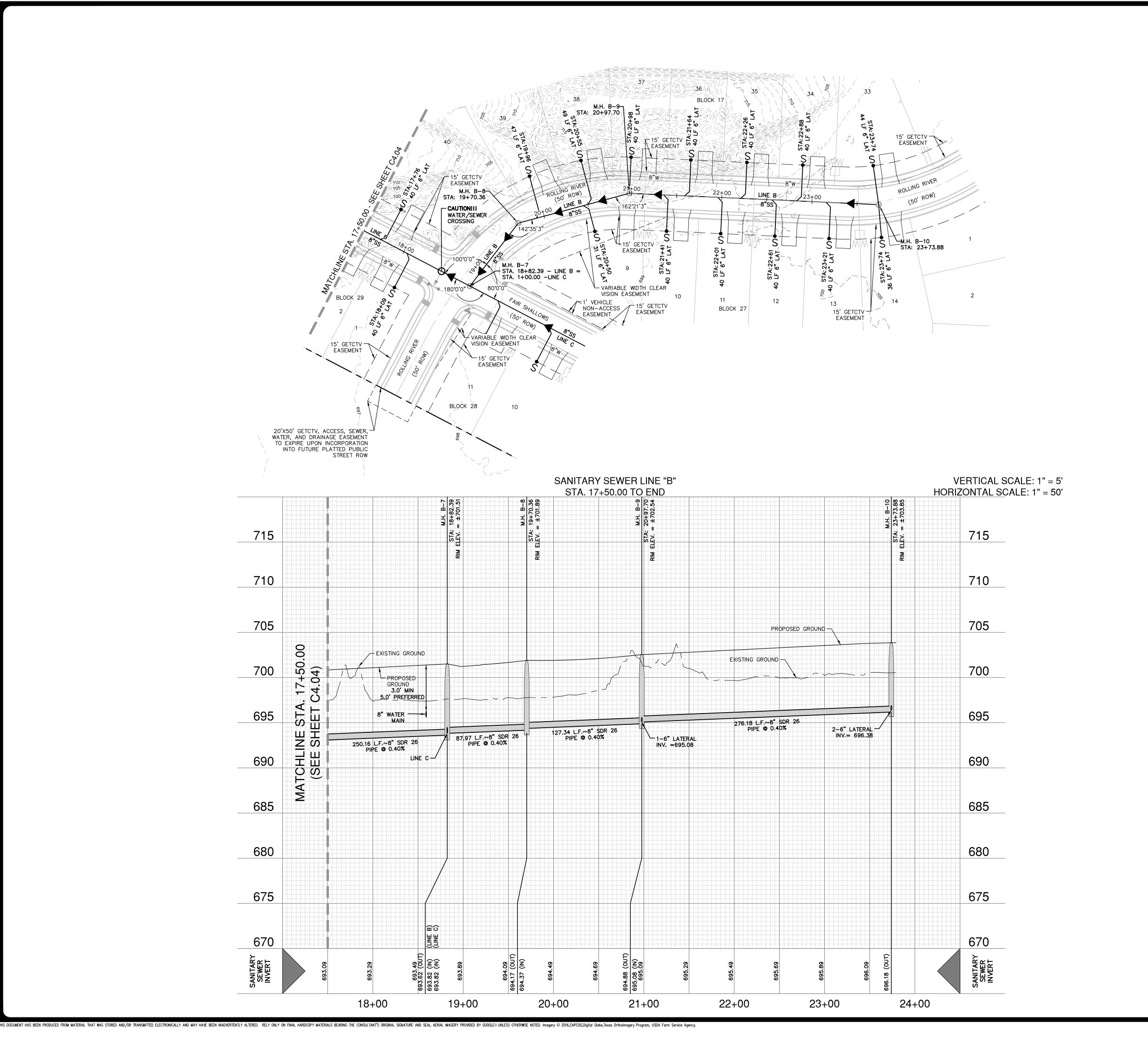
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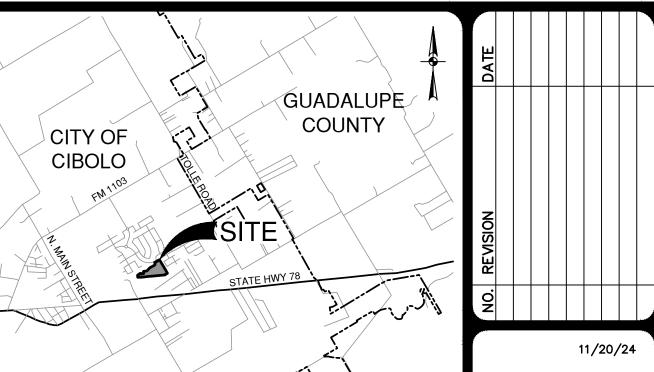
DATE NOVEMBER 2024

DESIGNER SS

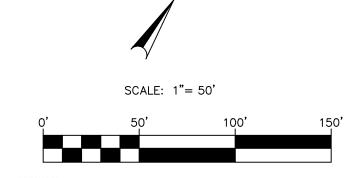
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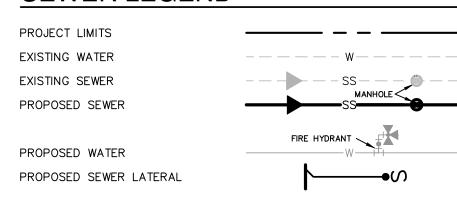








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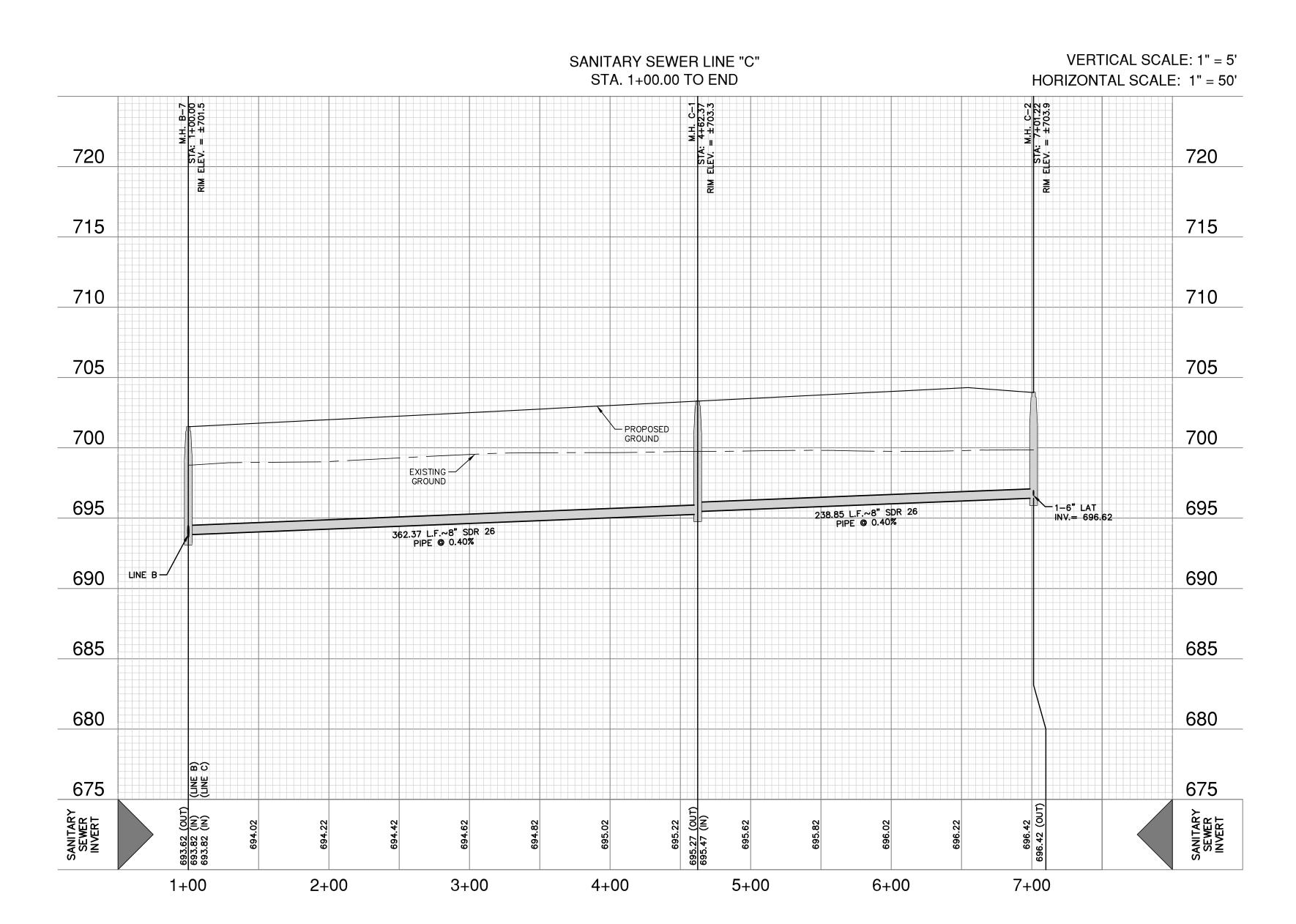
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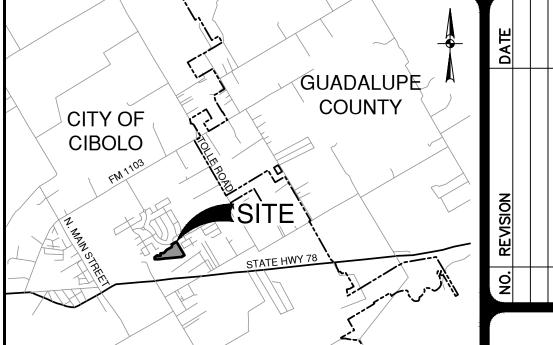
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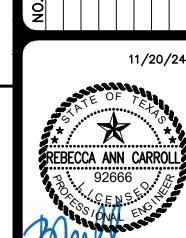
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JOB NO. 12629-04 DATE NOVEMBER 2024 DESIGNER CHECKED DRAWN SS



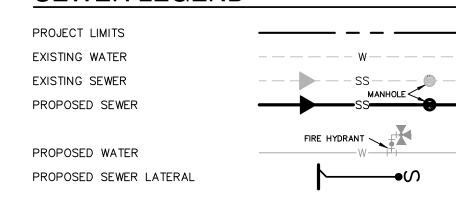
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## SCALE: 1"= 50'

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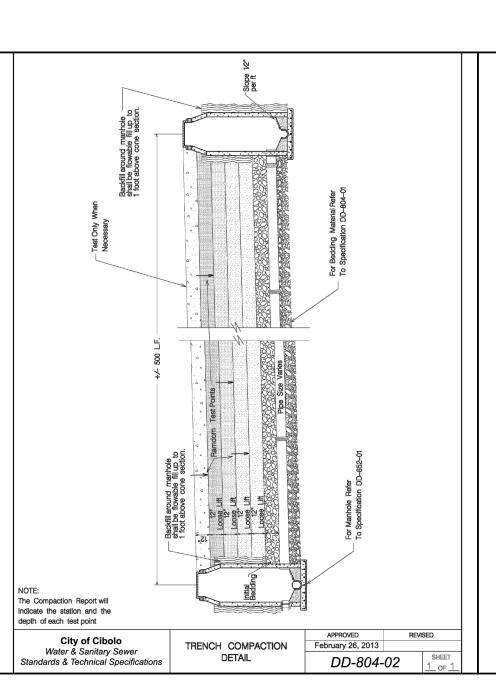
EXISTING UTILITIES ARE WITHIN THE LIMITS OF CONSTRUCTION. CONTRACTORS SHALL EXERCISE EXTRA CARE IN DIGGING ANY TRENCH FOR PROPOSED UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE, VERIFY THE EXACT LOCATION & IDENTIFY AREA OF CONFLICTS WITH EXISTING UTILITIES AND SHALL NOTIFY THE ENGINEER IF CONFLICT IS FOUND.

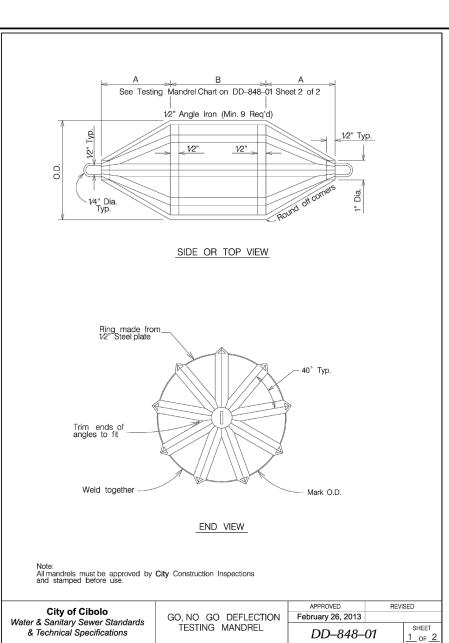
11. CONTRACTOR SHALL ENSURE THAT TOP OF MANHOLE MATCHES TOP OF Ш **T**0

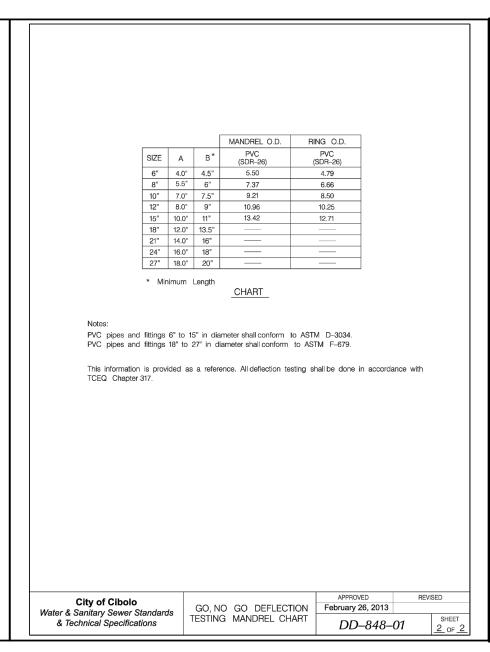
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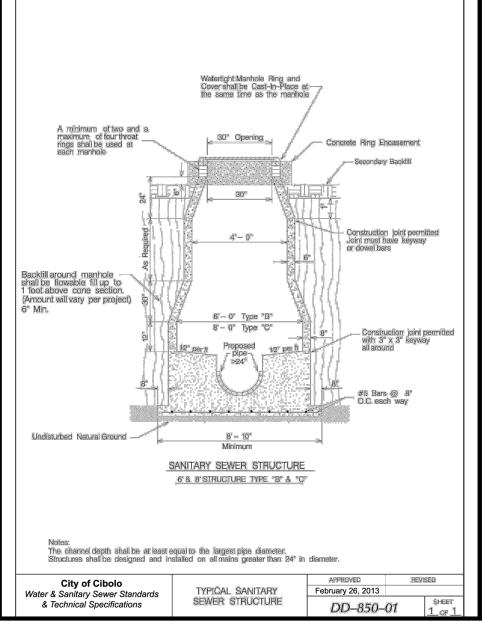
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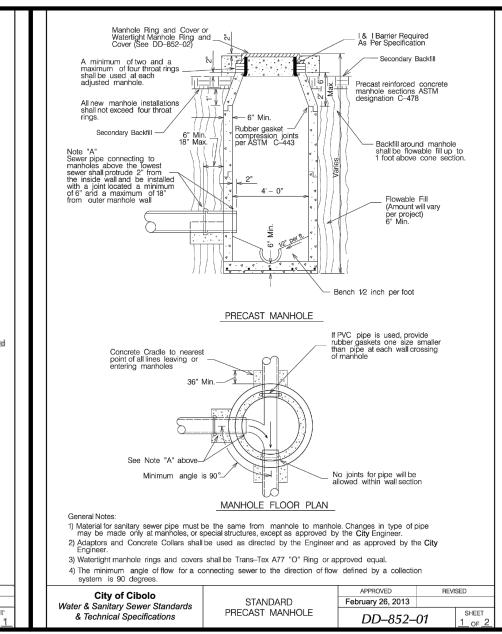
JOB NO. 12629-04 DATE NOVEMBER 2024 DESIGNER CHECKED DRAWN SS

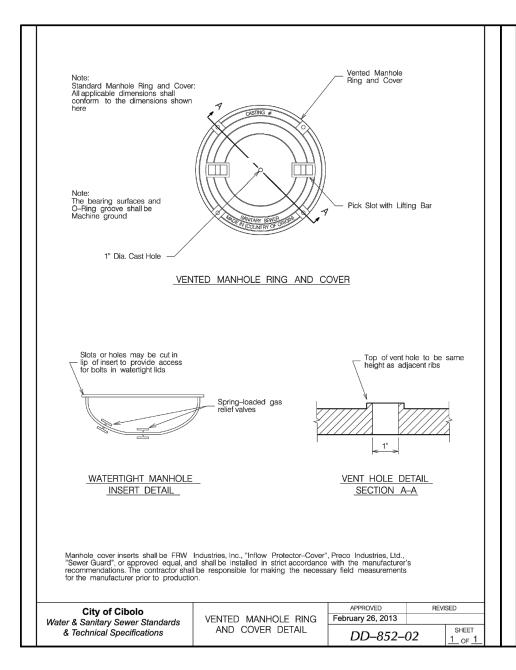


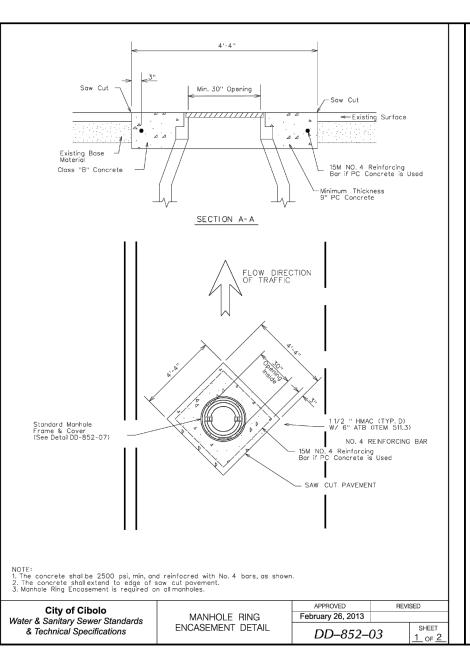


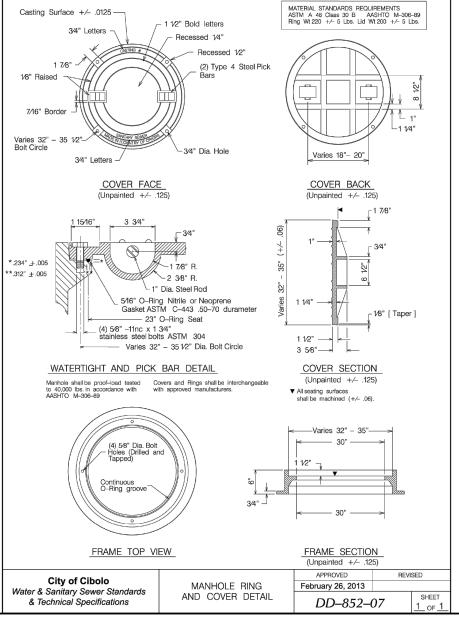


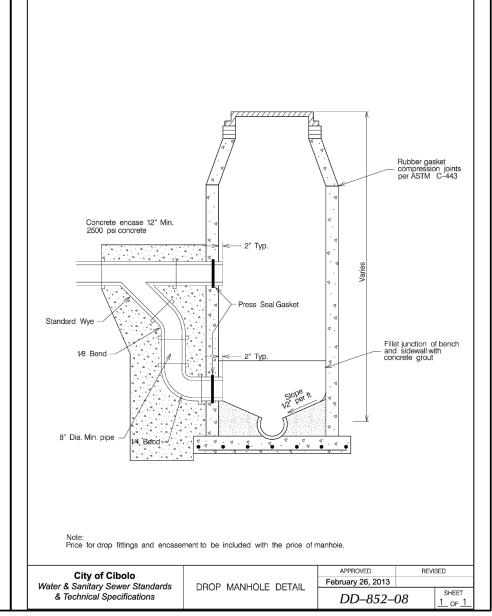


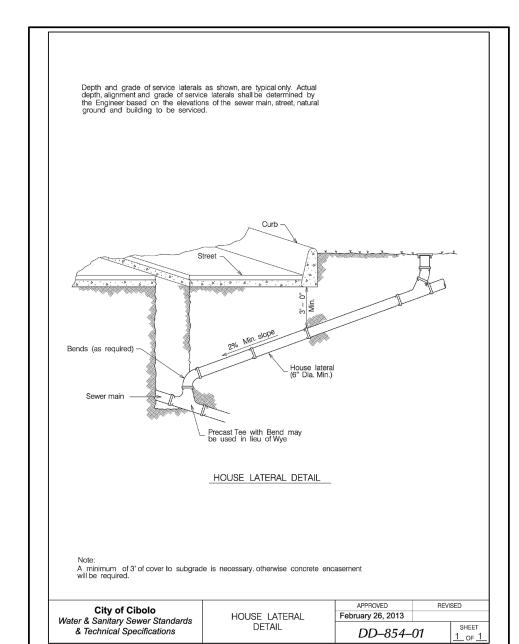


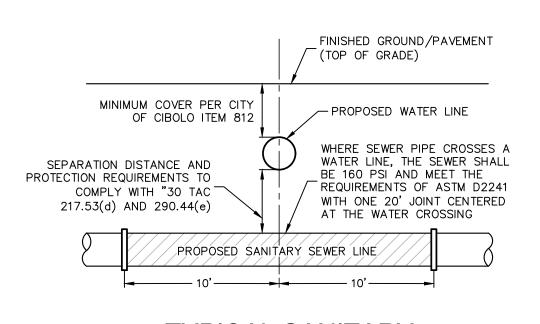












TYPICAL SANITARY
SEWER/WATER CROSSING DETAIL

### SANITARY SEWER NOTES

1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS PROJECT SHALL COMPLY WITH THE FOLLOWING AS APPLICABLE:

A. CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY'S DESIGN CRITERIA FOR SEWERAGE SYSTEMS [30 TAC 217].
B. CURRENT TXDOT "STANDARD SPECIFICATION FOR CONSTRUCTION OF HIGHWAYS, STREETS AND DRAINAGE".
C. CITY OF CIBOLO RULES AND REQUIREMENTS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER CONDITION FROM DAMAGE DONE TO EXISTING FENCES, CURBS, STREETS, DRIVEWAYS, LANDSCAPING AND STRUCTURES.

3. THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN ONE INCH IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. EXCAVATION IN VICINITY OF TREES SHALL PROCEED WITH CAUTION.

4. THE CONTRACTOR SHALL MAINTAIN SERVICE TO EXISTING SANITARY SEWERS AT ALL TIMES DURING CONSTRUCTION.

5. DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, UTILITY PURVEYORS MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND GAS VALVES THAT ARE IN THE PROJECT AREAS.

6. ALL RESIDENTIAL SEWER SERVICE LATERALS ARE 6" DIA. AND SHALL BE EXTENDED TO THE 15' UTILITY EASEMENT AND CAPPED AND SEALED. NO SEPARATE PAY ITEM.

7. CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE 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.

8. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL WASTE MATERIALS UPON PROJECT COMPLETION. THE CONTRACTOR SHALL NOT PERMANENTLY PLACE ANY WASTE MATERIALS IN THE 100—YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN DEVELOPMENT PERMIT.

9. WHERE THE MINIMUM 9 FOOT SEPARATION DISTANCE BETWEEN SEWER LINES AND WATER LINES/MAINS CANNOT BE MAINTAINED, THE INSTALLATION OF SEWER LINES SHALL BE IN STRICT ACCORDANCE OF 30 TAC 217.5.

10. THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY AND ENVIRONMENTAL PROTECTION AGENCY (EPA) REQUIRE EROSION AND SEDIMENTATION CONTROL FOR CONSTRUCTION OF SEWER COLLECTION SYSTEMS. DEVELOPER OR AUTHORIZED REPRESENTATIVE SHALL PROVIDE EROSION AND SEDIMENTATION CONTROL AS NOTES ON THE PROJECT'S PLAN AND PROFILE SHEETS.

11. ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS SHALL BE REMOVED BY THE CONTRACTOR AT FINAL ACCEPTANCE OF THE PROJECT.

12. NO EXTRA—PAYMENT SHALL BE ALLOWED FOR WORK CALLED FOR ON THE PLANS BUT NOT INCLUDED ON THE BID SCHEDULE. THIS INCIDENTAL WORK WILL BE REQUIRED AND SHALL BE INCLUDED UNDER THE PAY ITEM TO WHICH IT RELATES.

13. ALL PVC SEWER PIPE WITH OVER 14 FEET OF COVER SHALL BE EXTRA STRENGTH PIPE, MINIMUM STIFFNESS OF 115 PSI.

14. WHERE REQUIRED, CONCRETE ENCASEMENT SHALL BE PLACED FOR FULL WIDTH OF THE TRENCH TO A PLANE 6" ABOVE THE TOP OF THE PIPE.14. A MINIMUM OF 3 FEET OF COVER IS TO BE MAINTAINED OVER THE SANITARY SEWER MAIN AND LATERALS AT SUBGRADE, OTHERWISE CONCRETE ENCASEMENT WILL BE REQUIRED.

15. A DEFLECTION TEST SHALL BE PERFORMED ON ALL FLEXIBLE PIPE. THE TEST SHALL BE CONDUCTED AFTER INITIAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS.

16. ALL MAINS MUST PASS AIR TESTING PER THE PROJECT SPECIFICATIONS PRIOR TO ACCEPTANCE.

17. SANITARY SEWER MAIN CONNECTIONS MADE DIRECTLY TO EXISTING MANHOLES WILL REQUIRE SUCCESSFUL TESTING OF THE MANHOLES IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

18. AFTER CONSTRUCTION, TESTING WILL BE DONE BY T.V. CAMERA BY THE CONTRACTOR AND OBSERVED BY INSPECTOR, AND WASTEWATER ENGINEERING PERSONNEL AS THE CAMERA IS RUN THROUGH THE LINES. ANY ABNORMALITIES, SUCH AS BROKEN

PIPE OR MISALIGNED JOINTS, MUST BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.

19. THE LOCATIONS AND DEPTHS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS OF UTILITIES MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IT SHALL BE THE

LOCATIONS AND DEPTHS OF UTILITIES MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY CONFLICTS IMMEDIATELY. ANY DAMAGE BY THE CONTRACTOR TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS SOLE EXPENSE.

20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT.

21. ALL UTILITIES SHALL BE INSTALLED PRIOR TO PAVEMENT CONSTRUCTION.

22. NO WATER JETTING TO BACKFILL TRENCHES WILL BE ALLOWED ON THIS PROJECT.

23. IF THE GIVEN TOP OF MANHOLE ELEVATION DOES NOT AGREE WITH ACTUAL GROUND SURFACE, THE CONTRACTOR SHALL ADJUST ELEVATIONS SUCH THAT THE TOP OF MANHOLE SHALL BE 3" ABOVE EXISTING GROUND OR FLUSH WITH FINISHED PAVEMENT IN PAVED AREA.

24. ALL MANHOLES TO BE EPOXY LINED.

25. CONTRACTOR SHALL PROVIDE TV INSPECTION REPORT OF SANITARY SEWER MAIN WITH AS-BUILT SUBMITTAL.

26. NO SEWER LATERAL LINES OR CLEANOUTS WILL BE ALLOWED IN OR UNDER RESIDENTIAL DRIVEWAYS.

27. NO VERTICAL STACKS ALLOWED FOR ANY LOTS UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.

NO. REVISION

11/13/24



OTES AND DETAILS

SANITARY SEWER NOTES AN

PLAT NO.

JOB NO. 12629-04

DATE NOVEMBER 2024

DESIGNER SS

CHECKED DRAWN SS

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V1430CPT/V1420 ASSEMBLY

### V1430APT/V1420-1480Z1PT ASSEMBLY PRODUCT NUMBER 41430014W01 \_ 1 1/4" LETTERING (TYP) (RECESSED FLUSH) **DESIGN FEATURES** MATERIALS CUSTOM LOGO FRAME-GRAY IRON ASTM A48 CL35B / (2) EPIC ™ PICKHOLES COVER-GRAY IRON ASTM A48 CL35B DESIGN LOAD HEAVY DUTY COATING UNDIPPED (4) 1/2"-13 SS HX HD BLTS WITH STEEL & RUBBER WASHERS √ DESIGNATES MACHINED SURFACE SPECIAL FEATURES **ALTERNATE OPTIONS** 2 1/4"— 23" DIA----COVER SECTION **BOLTING DETAIL** \_\_\_\_\_ 32 3/16" DIA\_\_\_ / 1/4" DIA NEOPRENE GASKET REFERENCE INFORMATION — 40 3/4" DIA— 41430014 41420015 FRAME SECTION Corporate Headquarters 00.626.4653 EDIWEASTIORDAN www.ejiw.com we cover your infrastructure o Made in the USA Call Today for DRAWING DETAILS 301 Spring Street PO Box 439 WE COVER YOUR INFRASTRUCTURE ® ORIGINAL DRAWING: GAD 07/08/09 East Jordan, MI 49727-0439 800.874.4100 REVISED BY: SBB 12/07/10 Weights (ibs./kg.) dimensions (inches/mm., and drawings provided for your guidance. We reserve the right to modify specifications without prior notice. Uncontrolled distribution. CONFIDENTIAL: This drawing is the property of East Jordan Iron works, inc., and embodies confidential information, registered marks, trade search information, and/or know how that is the property of East Jordan Iron Works, Inc., @Copyright 2009 East Jordan Iron Works, Inc.

PAPE-DAWSON

ENGINEERS

SAN ANTONIO I AUSTIN I HOUSTON I FORT WORTH I DALLAS

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

11/13/24

STEELE CREEK-UNIT 4A
CITY OF CIBOLO, TEXAS

PLAT NO. \_\_\_\_\_\_

JOB NO. \_\_\_\_\_12629-04

DATE \_\_\_\_\_NOVEMBER 2024

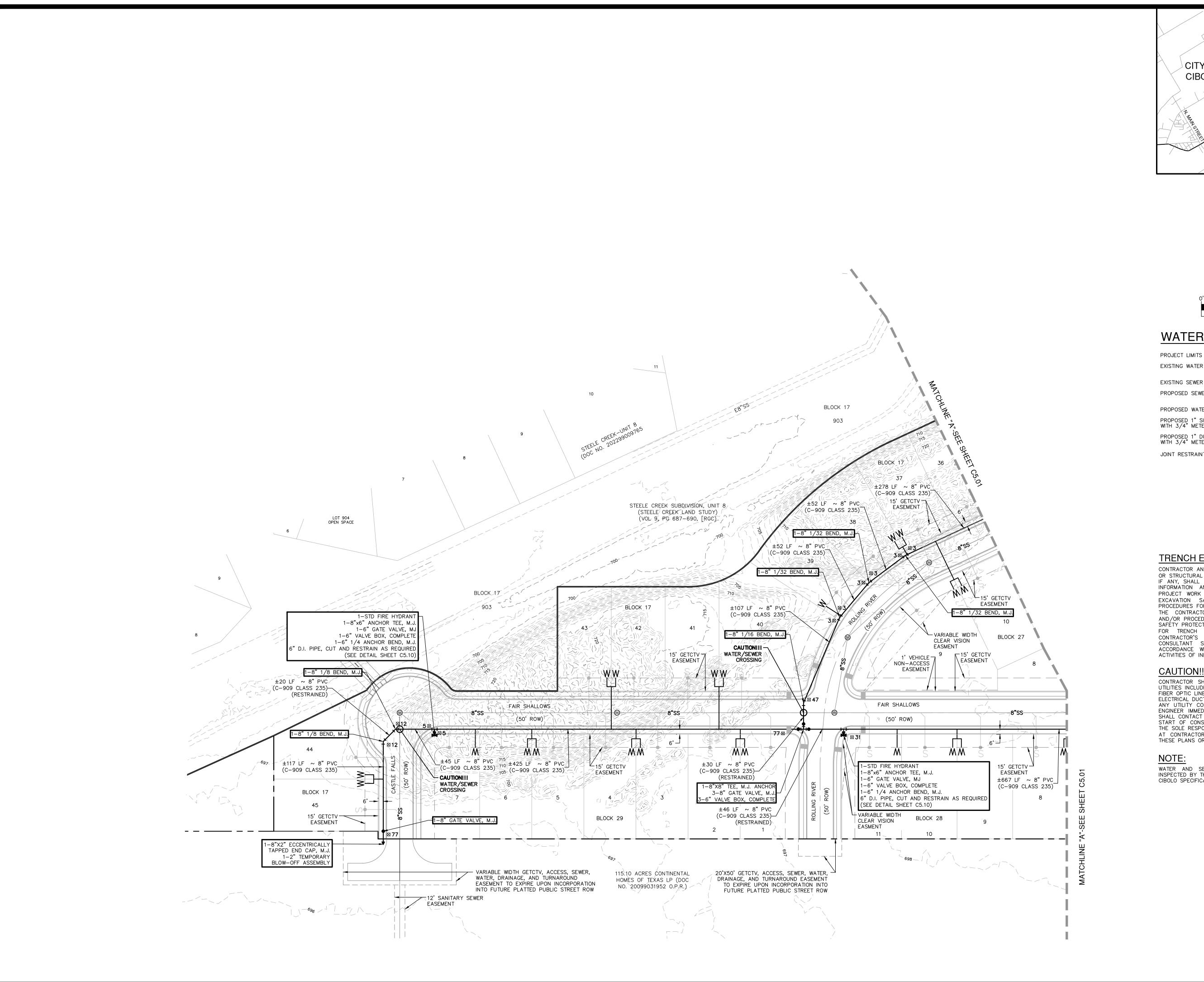
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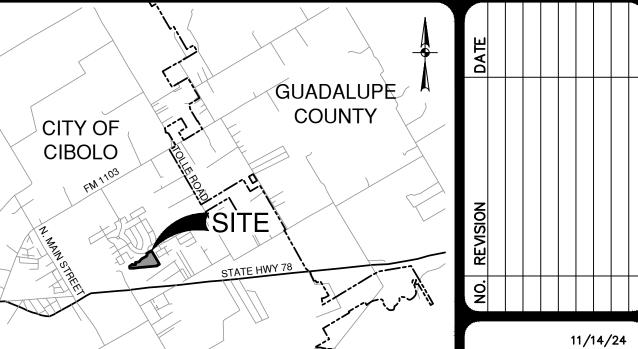
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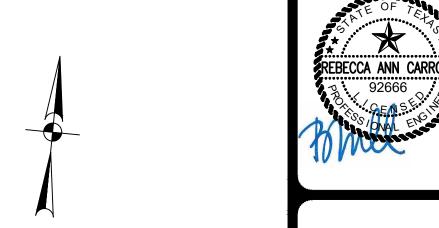
(1) 1"DIA VENT HOLE **DESIGN FEATURES** √(6) 1" DIA HOLES MATERIALS CUSTOM LOGO ON A 37" B.C. FRAME-GRAY IRON ASTM A48 CL35B /-(2) EPIC™ PICKHOLES COVER-GRAY IRON ASTM A48 CL35B DESIGN LOAD HEAVY DUTY COATING UNDIPPED (4) 1/2"-13 SS HX HD BLTS WITH STEEL & RUBBER WASHERS √ DESIGNATES MACHINED SURFACE SPECIAL FEATURES |---|- 1 5/8" DIA ALTERNATE OPTIONS 2 1/4"— \_\_\_\_\_ 23" DIA-----COVER SECTION **BOLTING DETAIL** —— 32 3/16" DIA——— / 1/4" DIA NEOPRENE GASKET REFERENCE INFORMATION FRAME SECTION 41420015 Corporate Headquarters 301 Spring Street PO Box 439 00.626.4653 EJIWEASTJORDAN www.ejiw.com
we cover your infrastructure 
MADE IN THE USA Call Today for DRAWING DETAILS More Information ORIGINAL DRAWING: GAD 07/08/09 East Jordan, MI 49727-0439 800.874.4100 REVISED BY: SBB 12/07/10 CONFIDENTIAL: This drawing is the property of East Jordan Iron works Inc., and embodies confidential information, registered marks, trade secret information, and/or know how that is the property of East Jordan Iron Works, Inc. @Copyright 2009 East Jordan Iron Works, Inc. Weights (bs./l.g.) dimensions (inches/mm. and drawings provided for your guidance.
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\_ 1 1/4" LETTERING (TYP) (RECESSED FLUSH) PRODUCT NUMBER 41430012B01



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### WATER LEGEND

PROJECT LIMITS EXISTING WATER EXISTING SEWER PROPOSED SEWER PROPOSED WATER PROPOSED 1" SINGLE SERVICE WITH 3/4" METER PROPOSED 1" DUAL SERVICE WITH 3/4" METER JOINT RESTRAINT

SCALE: 1"= 50'

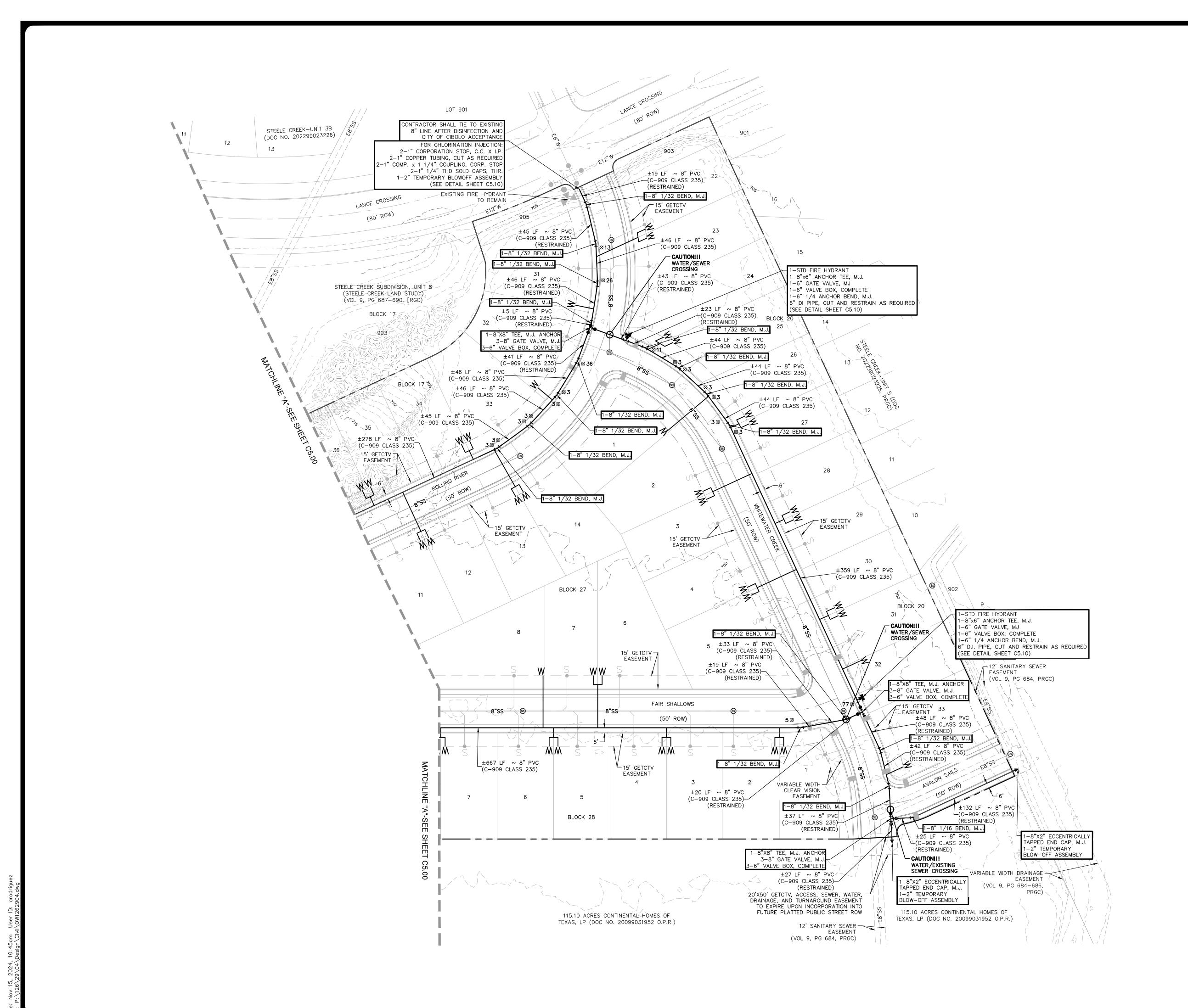
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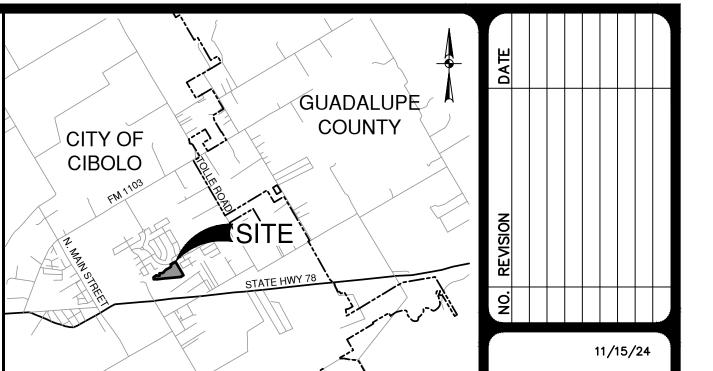
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WATER AND SEWER INFRASTRUCTURE SHOULD COMPLY WITH AND BE INSPECTED BY THE CITY OF CIBOLO. IN THE EVENT OF A CONFLICT, CITY OF CIBOLO SPECIFICATIONS CONTROL.

PLAT NO. JOB NO. 12629-04 DATE NOVEMBER 2024 DESIGNER CHECKED DRAWN SS







### WATER LEGEND

PROJECT LIMITS

EXISTING WATER

FIRE HYDRANT

W

EXISTING SEWER

PROPOSED SEWER

PROPOSED WATER

PROPOSED 1" SINGLE SERVICE WITH 3/4" METER

PROPOSED 1" DUAL SERVICE
WITH 3/4" METER

JOINT RESTRAINT

SIRCLE SERVICE

WITH 3/4" METER

W

SIRCLE SERVICE

WITH 3/4" METER

### TRENCH EXCAVATION SAFETY PROTECTION:

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### CAUTION!!

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# STEELE CREEK-UNIT 4A CITY OF CIBOLO, TEXAS

PLAT NO.

JOB NO. 12629-04

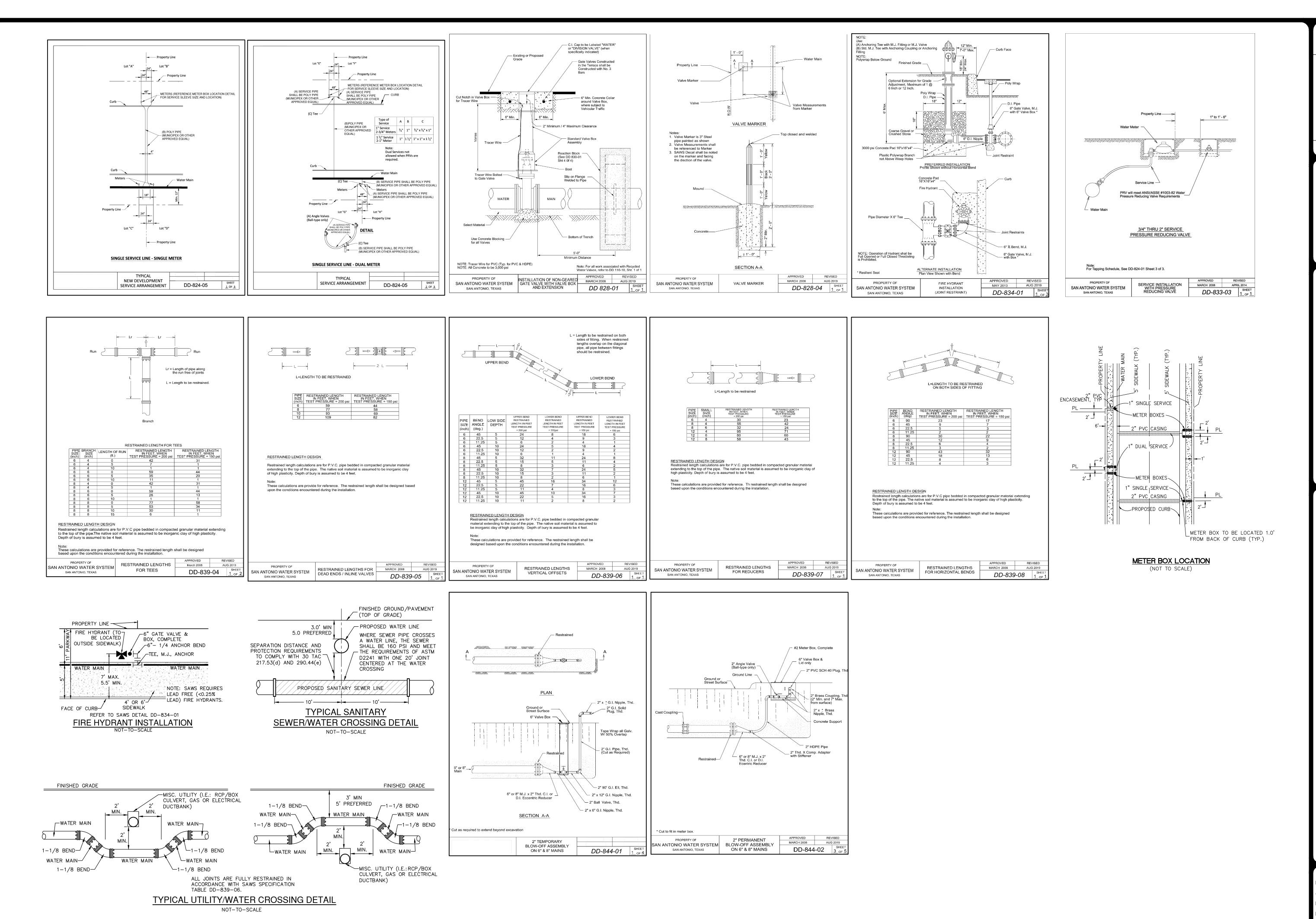
DATE NOVEMBER 2024

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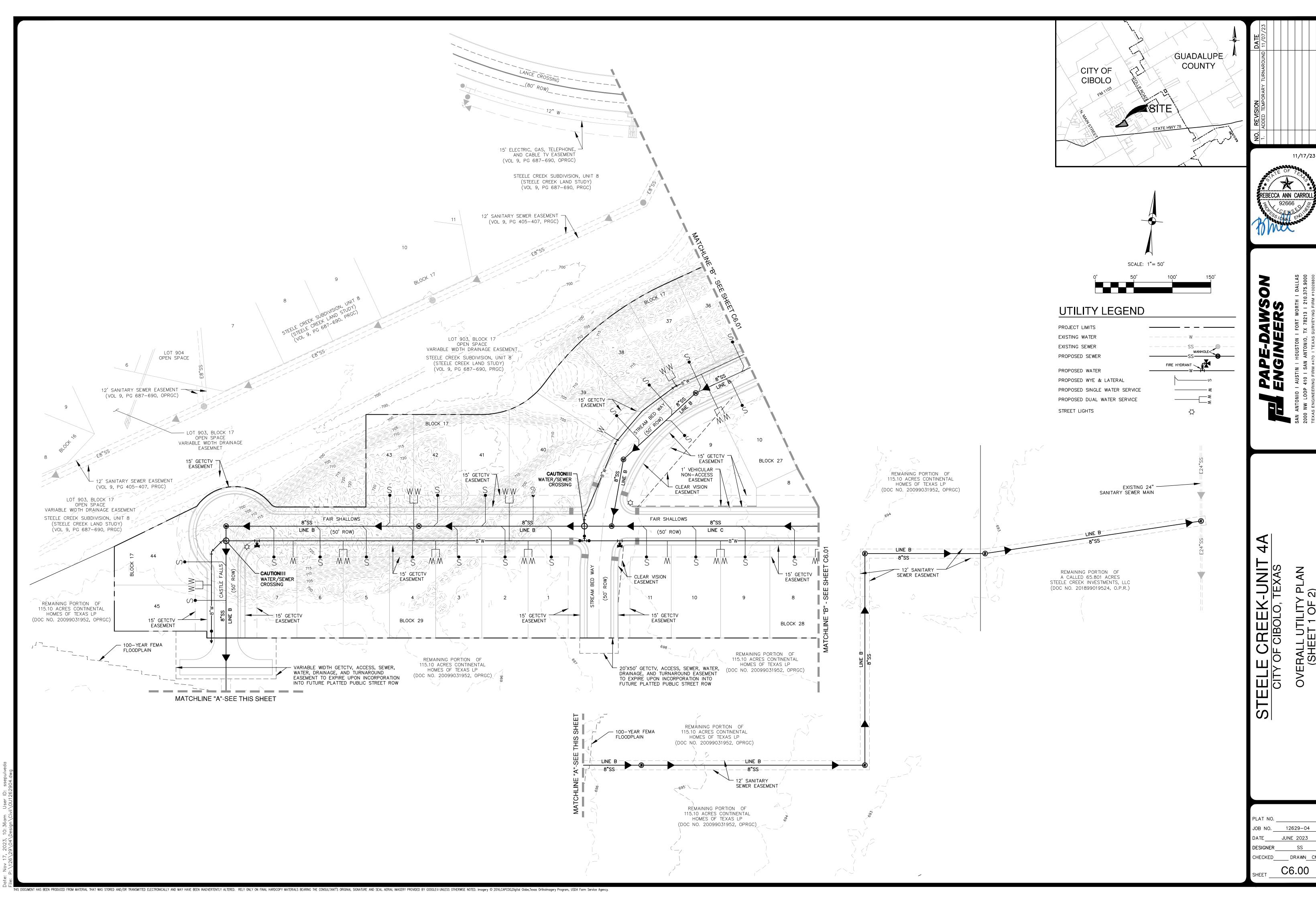
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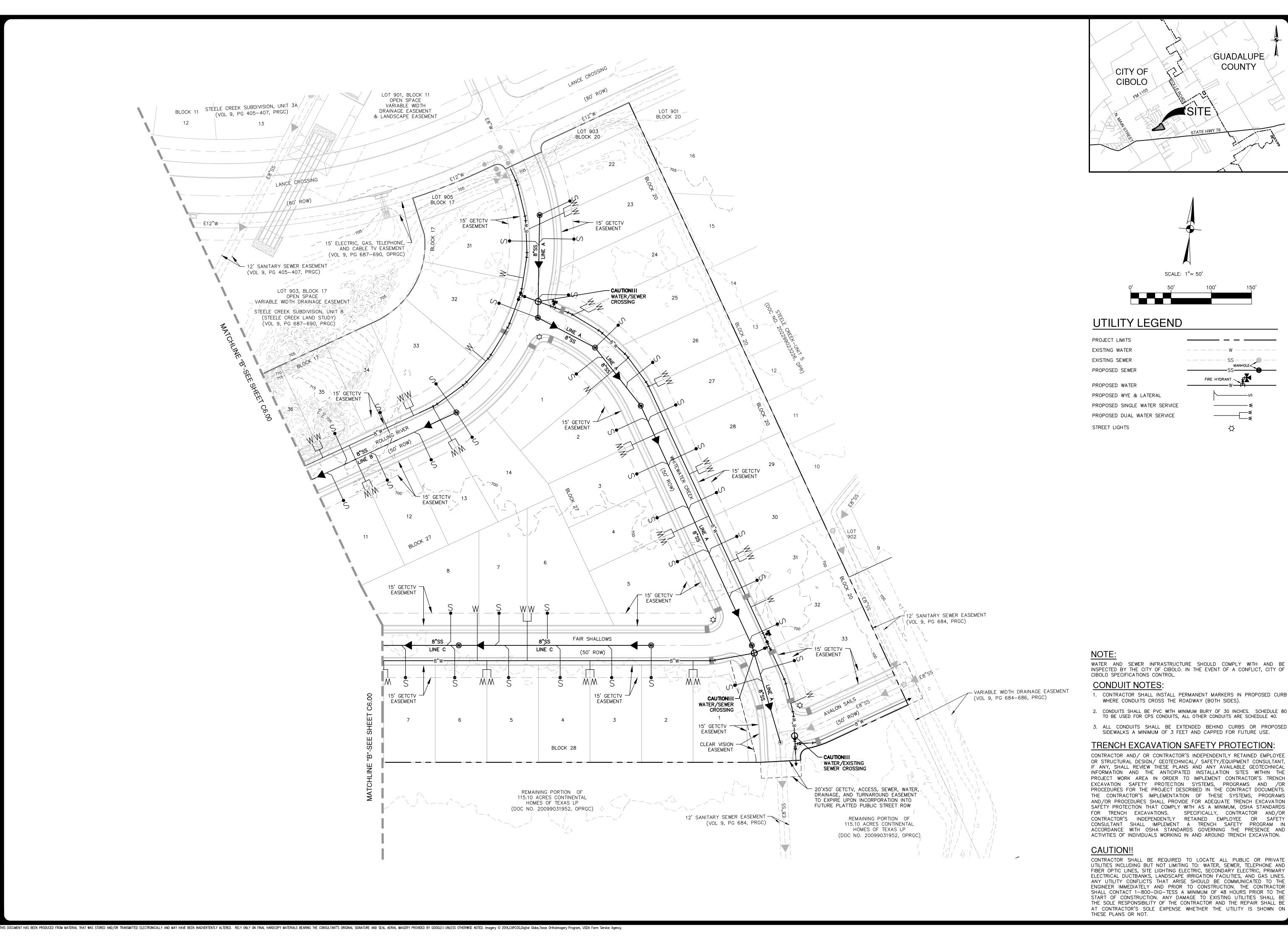
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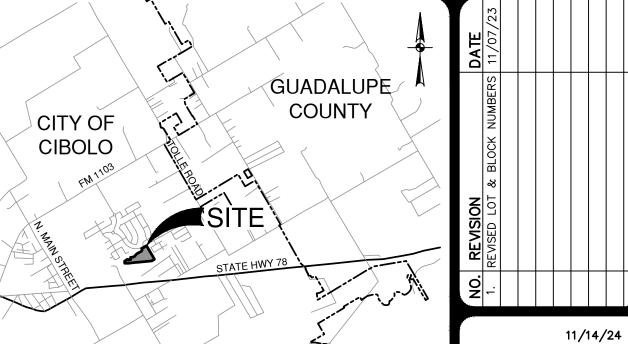
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STEELE CREEK-UNIT

PLAT NO. JOB NO. 12629-04 DATE JUNE 2023 DESIGNER SS CHECKED\_\_\_\_ DRAWN\_CM







SCALE: 1"= 50'

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## C-UNIT

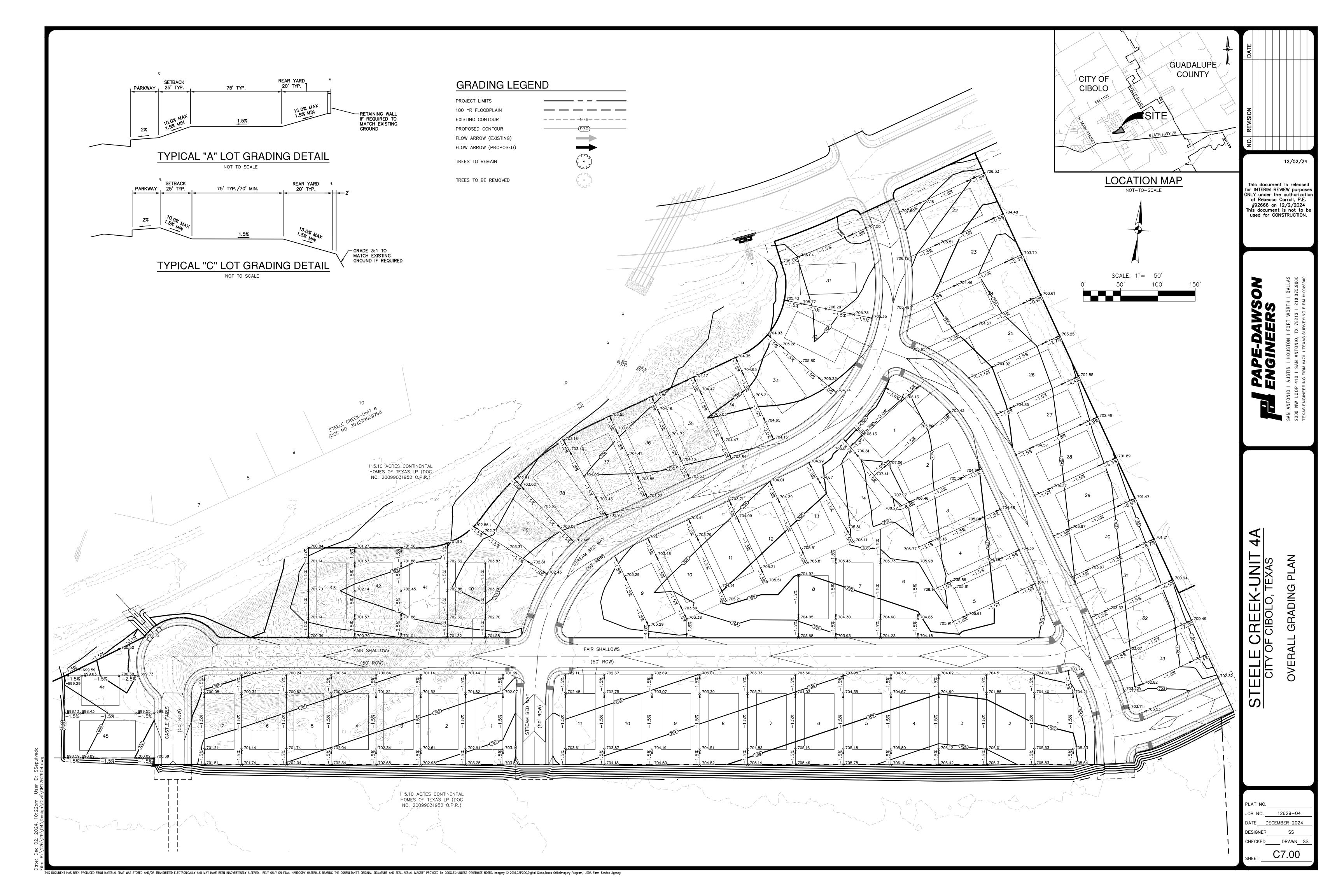
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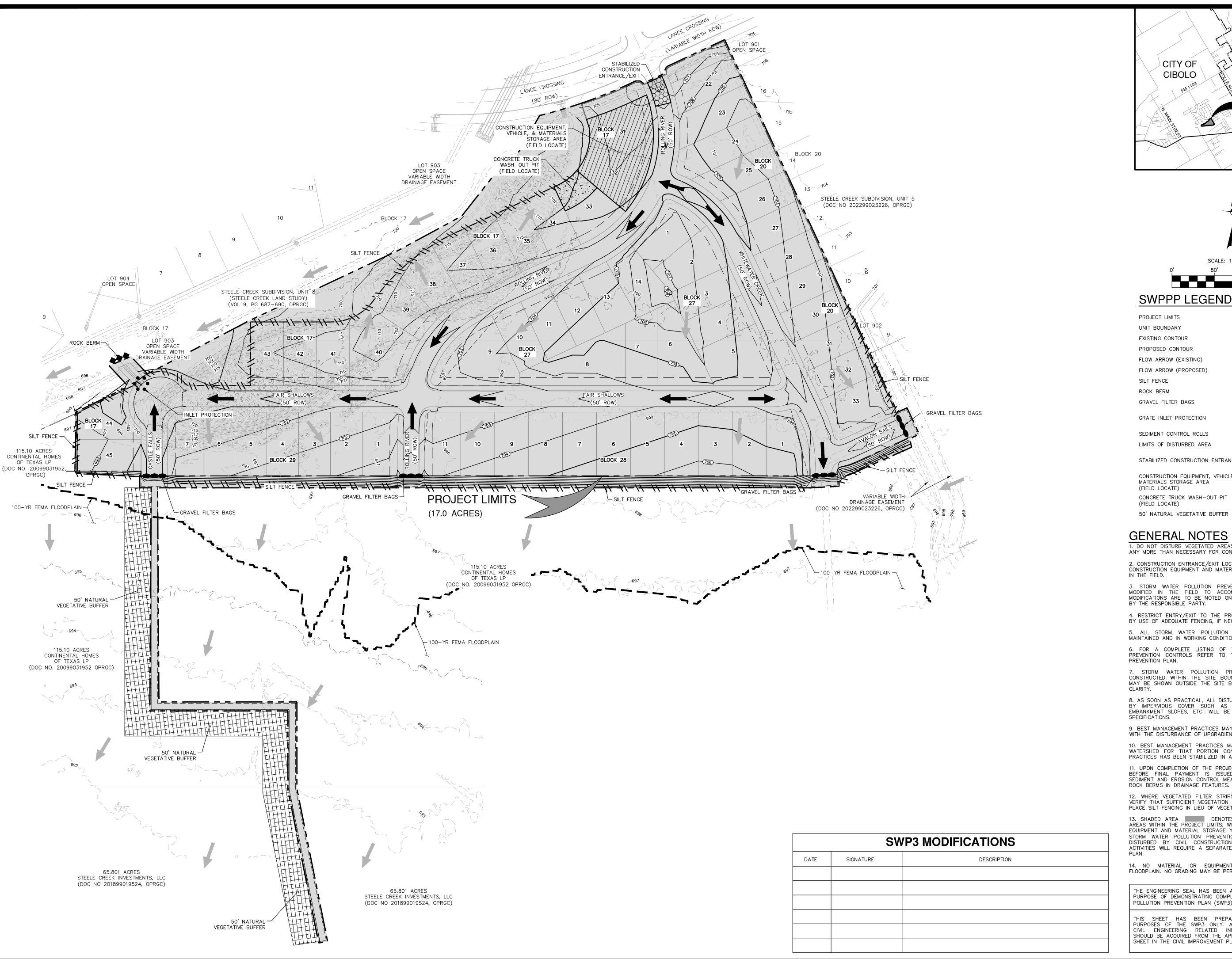
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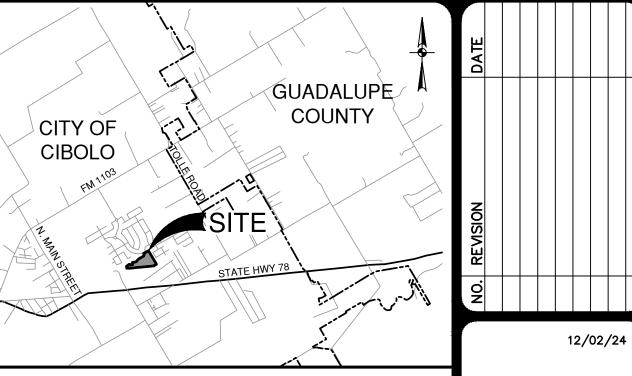
JOB NO. 12629-04 ATE NOVEMBER 2024 DESIGNER

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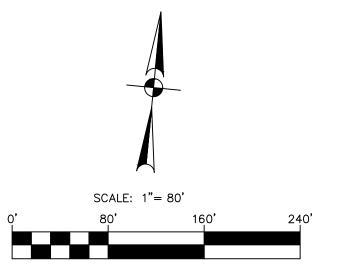


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ONLY under the authorization of Rebecca Carroll, P.E. #92666 on 12/2/2024

This document is not to be used for CONSTRUCTION.

NO NO



SWPPP LEGEND

PROJECT LIMITS UNIT BOUNDARY EXISTING CONTOUR PROPOSED CONTOUR FLOW ARROW (EXISTING) FLOW ARROW (PROPOSED) -//-//-//-//-SILT FENCE **\*\*\*** ROCK BERM GRAVEL FILTER BAGS GRATE INLET PROTECTION SEDIMENT CONTROL ROLLS LIMITS OF DISTURBED AREA

STABILIZED CONSTRUCTION ENTRANCE/EXIT

CONSTRUCTION EQUIPMENT, VEHICLE & MATERIALS STORAGE AREA (FIELD LOCATE) CONCRETE TRUCK WASH-OUT PIT (FIELD LOCATE)

### GENERAL NOTES

1. DO NOT DISTURB VEGETATED AREAS (TREES, GRASS, WEEDS, BRUSH, 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 MODIFIED 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

8. AS SOON AS PRACTICAL, ALL DISTURBED SOIL THAT WILL NOT BE COVERED BY IMPERVIOUS COVER SUCH AS PARKWAY AREAS, EASEMENT AREAS, EMBANKMENT SLOPES, ETC. WILL BE STABILIZED PER APPLICABLE PROJECT SPECIFICATIONS.

9. BEST MANAGEMENT PRACTICES MAY BE INSTALLED 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

12. WHERE VEGETATED FILTER STRIPS ARE INDICATED, CONTRACTOR SHALL VERIFY THAT SUFFICIENT VEGETATION EXISTS, OTHERWISE CONTRACTOR SHALL PLACE SILT FENCING IN LIEU OF VEGETATED FILTER STRIP.

13. SHADED AREA DENOTES LIMITS OF DISTURBED AREAS. OTHER AREAS WITHIN THE PROJECT LIMITS, WITH THE EXCEPTION OF A 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. HOUSE CONSTRUCTION ACTIVITIES WILL REQUIRE A SEPARATE STORM WATER POLLUTION PREVENTION

14. NO MATERIAL OR EQUIPMENT MAY BE STORED/STOCKPILED IN FLOODPLAIN. NO GRADING MAY BE PERFORMED IN THE FLOODPLAIN.

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.

**EXHIBIT 2** 

JOB NO. 12629-04 DATE DECEMBER 2024 DESIGNER CHECKED\_\_\_\_\_DRAWN\_\_SS C8.00

SCHEMATIC OF TEMPORARY CONSTRUCTION ENTRANCE/EXIT

### MATERIALS

8-INCHES.

DRAINAGE

**MATERIALS** 

OF 36 HOURS.

SHOOT GROWTH AND THATCH.

SITE PREPARATION

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

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 OF

I. 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. 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

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

PIPE UNDER PAD AS NEEDED TO MAINTAIN PROPER PUBLIC ROAD

SURFACE SMOOTH AND SLOPE FOR DRAINAGE. 7. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN.

### GEOTEXTILE FABRIC TO STABILIZE FOUNDATION

### SECTION "A-A" OF A CONSTRUCTION ENTRANCE/EXIT

### COMMON TROUBLE POINTS 1. INADEQUATE RUNOFF CONTROL-SEDIMENT WASHES ONTO PUBLIC ROAD.

. STONE TOO SMALL OR GEOTEXTILE FABRIC ABSENT, RESULTS IN MUDDY CONDITION AS STONE IS PRESSED INTO SOIL. . 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

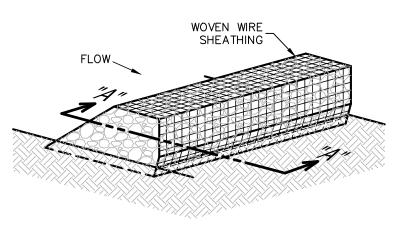
TRACKED ON TO ROAD AND POSSIBLE DAMAGE TO ROAD. 5. UNSTABLE FOUNDATION - USE GEOTEXTILE FABRIC UNDER PAD AND/OR IMPROVE FOUNDATION DRAINAGE.

INSPECTION AND MAINTENANCE GUIDELINES 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

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

. INSPECTION SHOULD BE MADE WEEKLY AND AFTER EACH RAINFALL BY THE

RESPONSIBLE PARTY. FOR INSTALLATIONS IN STREAMBEDS, ADDITIONAL DAILY

2. REMOVE SEDIMENT AND OTHER DEBRIS WHEN BUILDUP REACHES 6 INCHES

AND DISPOSE OF THE ACCUMULATED SILT IN AN APPROVED MANNER THAT

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,

6. THE ROCK BERM SHOULD BE LEFT IN PLACE UNTIL ALL UPSTREAM AREAS

EROSION AND SEDIMENT CONTROL MEASURES FARTHER UP THE WATERSHED.

INSPECTION AND MAINTENANCE GUIDELINES

ROCK BERMS

INSPECTIONS SHOULD BE MADE.

WILL NOT CAUSE ANY ADDITIONAL SILTATION.

WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.

ARE STABILIZED AND ACCUMULATED SILT REMOVED.

3. REPAIR ANY LOOSE WIRE SHEATHING.

### **MATERIALS**

SHEATHING HAVING MAXIMUM OPENING OF 1 INCH AND A MINIMUM WIRE DIAMETER OF 20 GAUGE GALVANIZED AND SHOULD BE SECURED WITH SHOAT 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

THE BERM STRUCTURE SHOULD BE SECURED WITH A WOVEN WIRE

**SECTION "A-A"** 

WOVEN WIRE SHEATHING

### 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

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

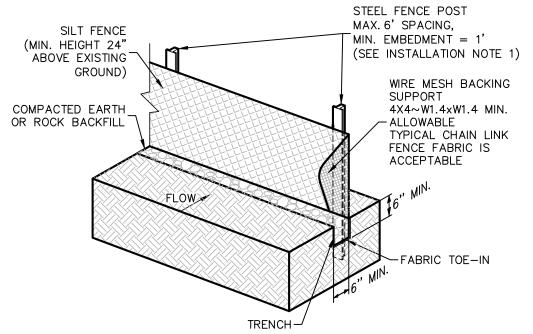
### INCHES DEEP TO PREVENT FAILURE OF THE CONTROL. COMMON TROUBLE POINTS

. 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).

### **ROCK BERM DETAIL**

NOT-TO-SCALE



### STABILIZED CONSTRUCTION ENTRANCE/EXIT DETAIL NOT-TO-SCALE

CUTTING HEIGHT

<u>SHOOTS</u> OR GRASS BLADES.

HEALTHY: MOWED AT A 2"-3"

GRASS SHOULD BE GREEN AND

- THATCH- GRASS CLIPPINGS AND

-ROOT ZONE - SOIL AND ROOTS.

DEAD LEAVES, UP TO 1/2" THICK.

LAY SOD IN A STAGGERED PATTERN. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER. DO NOT LEAVE SPACES AND DO NOT OVERLAP. A SHARPENED MASON'S TROWEL IS A HANDY TOOL FOR TUCKING DOWN THE ENDS AND TRIMMING PIECES.

RUNOFF AWAY FROM THE PUBLIC ROAD.

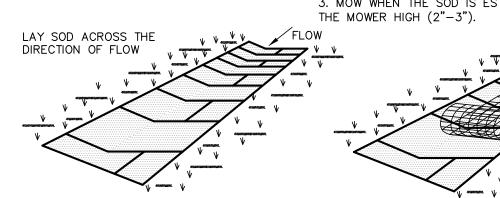
 ANGLED ENDS CAUSED BY THE AUTOMATIC SOD CUTTER MUST BE MATCHED

SHOULD BE 1/2"-3/4" THICK, WITH DENSE ROOT MAT FOR STRENGTH. APPEARANCE OF GOOD SOD

 ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.

2. WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAID.

3. MOW WHEN THE SOD IS ESTABLISHED - IN 2-3 WEEKS. SET THE MOWER HIGH (2"-3").



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

2. PIECES OF SOD SHOULD BE CUT TO THE SUPPLIER'S STANDARD WIDTH AND

STANDARD SIZE SECTIONS OF SOD SHOULD BE STRONG ENOUGH TO

SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN

4. SOD SHOULD BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD

PRIOR TO SOIL PREPARATION, AREAS TO BE SODDED SHOULD BE BROUGHT

THE SURFACE SHOULD BE CLEARED OF ALL TRASH, DEBRIS AND OF ALL

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,

FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE CONTOUR.

SPRINGTOOTH HARROW OR OTHER SUITABLE EQUIPMENT. ON SLOPING LAND, THE

SOD STRIPS IN WATERWAYS SHOULD BE LAID PERPENDICULAR TO THE

DIRECTION OF FLOW. CARE SHOULD BE TAKEN TO BUTT ENDS OF STRIPS

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

ROOTS, BRUSH, WIRE, GRADE STAKES AND OTHER OBJECTS THAT WOULD

TORN OR UNEVEN PADS SHOULD NOT BE ACCEPTABLE.

SUSPENDED FROM A FIRM GRASP ON ONE END OF THE SECTION.

TO FINAL GRADE IN ACCORDANCE WITH THE APPROVED PLAN.

INSTALLATION IN CHANNELS

TIGHTLY (SEE FIGURE ABOVE).

INTERFERE WITH PLANTING, FERTILIZING OR MAINTENANCE OPERATIONS.

IN CRITICAL AREAS, SECURE SOD

### WITH NETTING. USE STAPLES. GENERAL INSTALLATION (VA. DEPT. OF

SOD ALSO SHOULD NOT BE LAID ON SOIL SURFACES THAT ARE FROZEN. 2. DURING PERIODS OF HIGH TEMPERATURE, THE SOIL SHOULD BE LIGHTLY

FIRST ROW OF SOD SHOULD BE LAID IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO AND BUTTING TIGHTLY AGAINST EACH OTHER. LATERAL JOINTS SHOULD BE STAGGERED TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. CARE SHOULD BE EXERCISED TO ENSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE DRYING OF THE ROOTS

4. ON SLOPES 3:1 OR GREATER, OR WHEREVER EROSION MAY BE A PROBLEM, SOD SHOULD BE LAID WITH STAGGERED JOINTS AND SECURED BY STAPLING OF OTHER APPROVED METHODS. SOD SHOULD BE INSTALLED WITH THE LENGTH PERPENDICULAR TO THE SLOPE (ON CONTOUR).

5. AS SODDING OF CLEARLY DEFINED AREAS IS COMPLETED, SOD SHOULD BE ROLLED OR TAMPED TO PROVIDE FIRM CONTACT BETWEEN ROOTS AND SOIL. 6. AFTER ROLLING, SOD SHOULD BE IRRIGATED TO A DEPTH SUFFICIENT THAT THE UNDERSIDE OF THE SOD PAD AND THE SOIL 4 INCHES BELOW THE SOD IS

UNTIL SUCH TIME A GOOD ROOT SYSTEM BECOMES DEVELOPED, IN THE ABSENCE OF ADEQUATE RAINFALL, WATERING SHOULD BE PERFORMED AS OFTEN AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF AT LEAST 4

8. THE FIRST MOWING SHOULD NOT BE ATTEMPTED UNTIL THE SOD IS FIRMLY ROOTED, USUALLY 2-3 WEEKS. NOT MORE THAN ONE THIRD OF THE GRASS

### INSPECTION AND MAINTENANCE GUIDELINES SOD SHOULD BE INSPECTED WEEKLY AND AFTER EACH RAIN EVENT TO LOCATE AND REPAIR ANY DAMAGE.

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2. DAMAGE FROM STORMS OR NORMAL CONSTRUCTION ACTIVITIES SUCH AS TIRE RUTS OR DISTURBANCE OF SWALE STABILIZATION SHOULD BE REPAIRED AS SOON AS PRACTICAL.

SOD INSTALLATION DETAIL

WITH THE GROUND.

INCORREC<sup>\*</sup>

SOD INSTALLATION

USE PEGS OR STAPLES TO FASTEN SOD

FIRMLY - AT THE ENDS OF STRIPS AND

IN THE CENTER, OR EVERY 3-4 FEET IF

MOW, DRIVE PEGS OR STAPLES FLUSH

THE STRIPS ARE LONG. WHEN READY TO

CONSERVATION, 1992 SOD SHOULD NOT BE CUT OR LAID IN EXCESSIVELY WET OR DRY WEATHER.

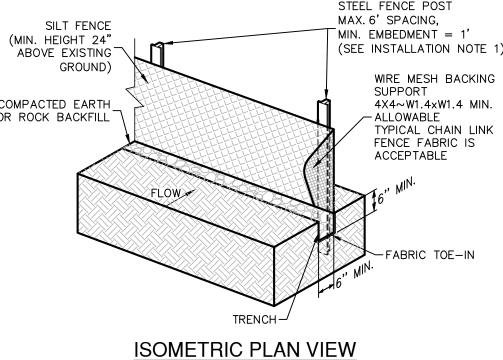
LENGTH, WITH A MAXIMUM ALLOWABLE DEVIATION IN ANY DIMENSION OF 5%. IRRIGATED IMMEDIATELY PRIOR TO LAYING THE SOD, TO COOL THE SOIL AND REDUCE ROOT BURNING AND DIEBACK.

(SEE FIGURE ABOVE).

LEAF SHOULD BE REMOVED AT ANY ONE CUTTING.

### SILT FENCE DETAIL

NOT-TO-SCALE



### SILT FENCE

STAPLE

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.

I. 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.

. 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 BRINDELL HARDNESS

3. WOVEN WIRE BACKING TO SUPPORT THE FABRIC SHOULD BE GALVANIZED 2" X 4" WELDED WIRE, 12 GAUGE MINIMUM.

I. 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 1/4 ACRE/100 FEET OF FENCE.

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

4. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL. 5. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT

POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST. THERE SHOULD BE A 3-FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET 6. SILT FENCE SHOULD BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

### COMMON TROUBLE POINTS FENCE NOT INSTALLED ALONG THE CONTOUR CAUSING WATER TO CONCENTRATE AND FLOW OVER THE FENCE.

2. FABRIC NOT SEATED SECURELY TO GROUND (RUNOFF PASSING UNDER FENCE).

3. FENCE NOT INSTALLED PERPENDICULAR TO FLOW LINE (RUNOFF ESCAPING

4. FENCE TREATING TOO LARGE AN AREA, OR EXCESSIVE CHANNEL FLOW (RUNOFF OVERTOPS OR COLLAPSES FENCE).

### INSPECTION AND MAINTENANCE GUIDELINES 1. INSPECT ALL FENCING WEEKLY, AND AFTER RAINFALL.

### 2. REMOVE SEDIMENT WHEN BUILDUP REACHES 6 INCHES.

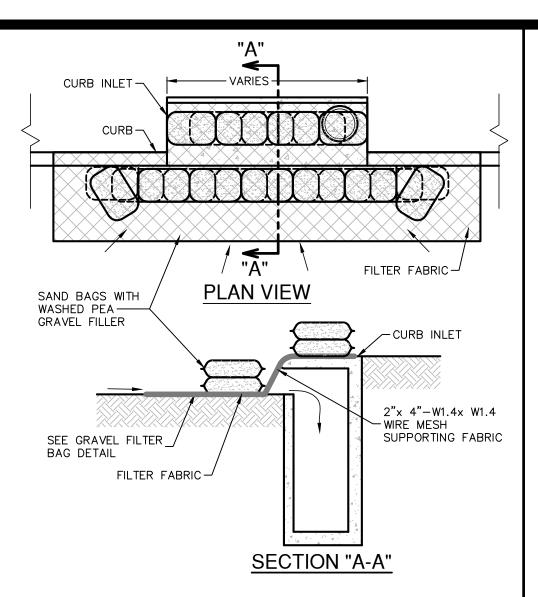
3. REPLACE TORN FABRIC OR INSTALL A SECOND LINE OF FENCING PARALLEL TO THE TORN SECTION.

4. REPLACE OR REPAIR SECTIONS CRUSHED OR COLLAPSED IN THE COURSE OF CONSTRUCTION ACTIVITY. IF A SECTION OF FENCE IS OBSTRUCTING VEHICULAR ACCESS, CONSIDER RELOCATING IT TO A SPOT WHERE IT WILL PROVIDE EQUAL PROTECTION, BUT WILL NOT OBSTRUCT VEHICLES. A TRIANGULAR FILTER DIKE MAY BE PREFERABLE TO A SILT FENCE AT COMMON VEHICLE ACCESS POINTS.

WHEN CONSTRUCTION IS COMPLETE, THE SEDIMENT SHOULD BE DISPOSED OF IN A MANNER THAT WILL NOT CAUSE ADDITIONAL SILTATION AND THE PRIOR LOCATION OF THE SILT FENCE SHOULD BE REVEGETATED. THE FENCE ITSELF SHOULD BE DISPOSED OF IN AN APPROVED LANDFILL

PIT DETAIL

NOT-TO-SCALE



### **GENERAL NOTES**

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 CLIPS 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.

THE BAGS SHOULD BE TIGHTLY ABUTTED AGAINST EACH OTHER TO PREVENT RUNOFF FROM FLOWING BETWEEN THE BAGS.

INSPECTION AND MAINTENANCE GUIDELINES . INSPECTION SHOULD BE MADE WEEKLY AND AFTER EACH RAINFALL. REPAIR OR REPLACEMENT SHOULD BE MADE PROMPTLY AS NEEDED BY THE

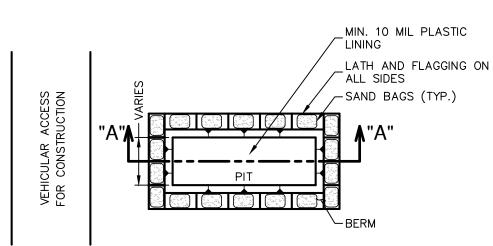
2. REMOVE SEDIMENT WHEN BUILDUP REACHES A DEPTH OF 3 INCHES. REMOVED SEDIMENT SHOULD BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE. 3. CHECK PLACEMENT OF DEVICE TO PREVENT GAPS BETWEEN DEVICE AND

4. INSPECT FILTER FABRIC AND PATCH OR REPLACE IF TORN OR MISSING. 5. STRUCTURES SHOULD BE REMOVED AND THE AREA STABILIZED ONLY AFTER

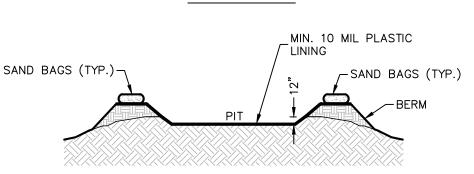
### BAGGED GRAVEL CURB INLET PROTECTION DETAIL

THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

NOT-TO-SCALE



### **PLAN VIEW**



SECTION "A-A'

### GENERAL NOTES

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.

FROM STORM WATER RUNOFF. 4. LOCATE WASHOUT AREA AT LEAST 50 FEET FROM SENSITIVE FEATURES, STORM DRAINS, OPEN DITCHES OR WATER BODIES.

WASHOUT PIT SHALL NOT BE LOCATED IN AREAS SUBJECT TO INUNDATION

TEMPORARY CONCRETE WASHOUT FACILITY SHOULD BE CONSTRUCTED WITH SUFFICIENT QUANTITY AND VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.

### **MATERIALS**

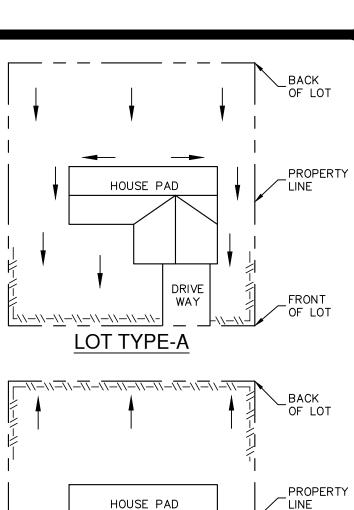
PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL IN POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL

### MAINTENANCE

WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHOULD BE REMOVED AND DISPOSED OF. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED

HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCES CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE BACKFILLED AND REPAIRED.

### CONCRETE TRUCK WASHOUT



WAY

LOT TYPE-B

HOUSE PAD

LOT TYPE-C

NOTE: SILT FENCE TO BE INSTALLED PER

DOWNGRADIENT SIDE OF EACH LOT LINE

THESE DETAILS AND LOCATED ON THE

12/02/24 This document is release for INTERIM REVIEW purpose NLY under the authorizat #92666 on 12/2/2024

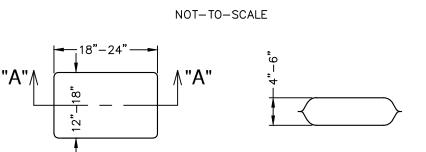
of Rebecca Carroll, P.E. his document is not to be used for CONSTRUCTION.

LEGENI -\\-\\- SILT FENCE DRAINAGE FLO

PROPERT

OR LIMITS OF CLEARING AS GENERALLY SHOWN ON THE OVERALL SITE PLAN. TYPICAL HOUSE LOT LAYOUTS

WAY



**PLAN VIEW SECTION "A-A"** 

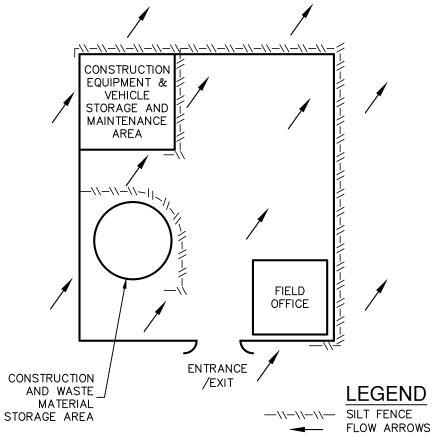
OUNCES/SY, HAVE A MULLEN BURST STRENGTH EXCEEDING 300 PSI AND ULTRAVIOLET STABILITY EXCEEDING 70%. THE FILTER BAG SHALL BE FILLED WITH CLEAN, MEDIUM WASHED PEA

THE FILTER BAG MATERIAL SHALL BE MADE OF POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE WOVEN FABRIC, MIN. UNIT WEIGHT OF 4

GRAVEL TO COARSE GRAVEL (0.31 TO 0.75 INCH DIAMETER). 3. SAND SHALL <u>NOT</u> BE USED TO FILL THE FILTER BAGS.

### GRAVEL FILTER BAG DETAIL

NOT-TO-SCALE



### CONSTRUCTION STAGING AREA

NOT-TO-SCALE

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 **EXHIBIT 3** SHOULD BE ACQUIRED FROM THE APPROPRIATE SHEET IN THE CIVIL IMPROVEMENT PLANS.

SIGNER C8.10

JOB NO. 12629-04 ATE DECEMBER 2024

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