

BLOSSOM RANCH UNIT 1A OFF-SITE WATER

SAN ANTONIO, TEXAS

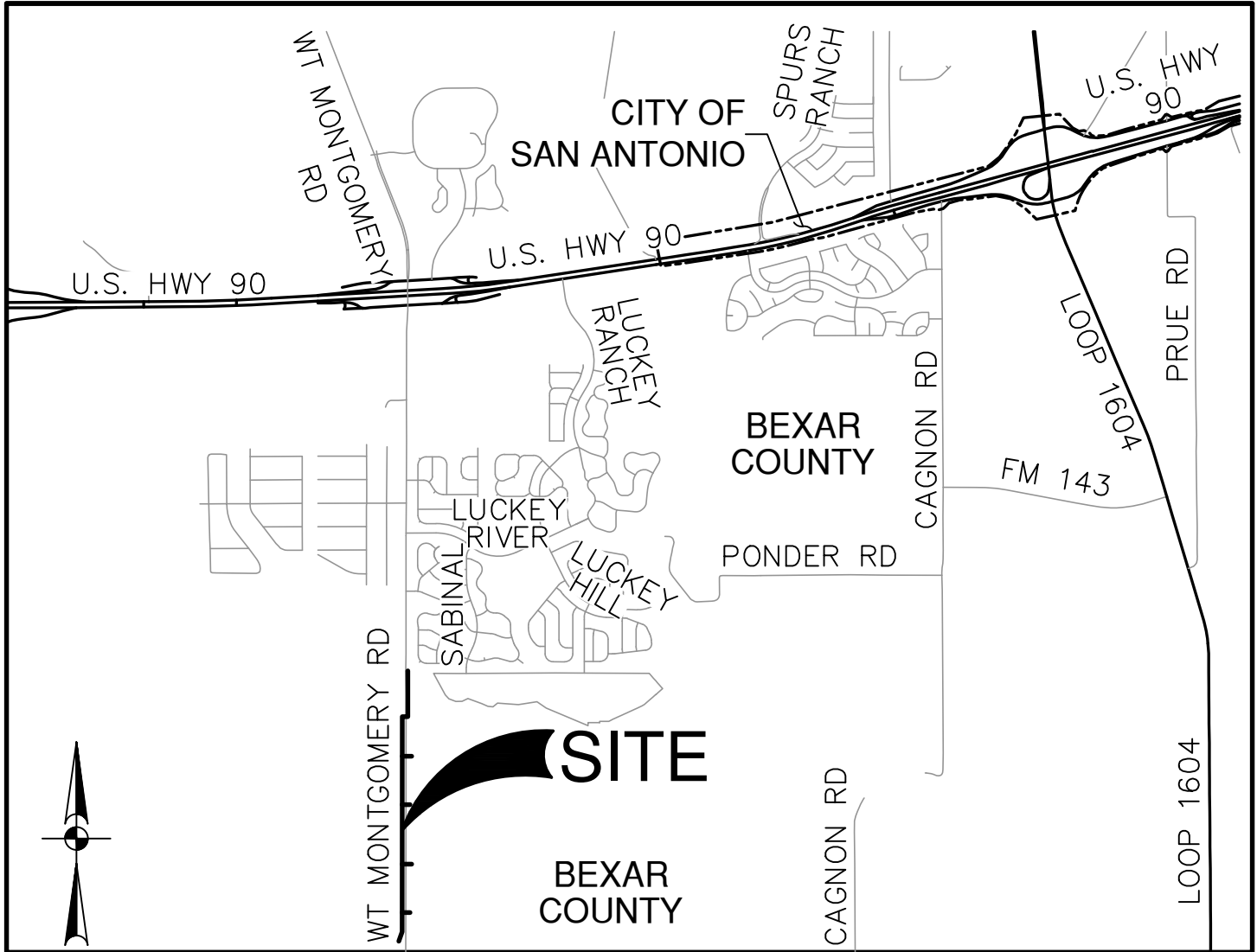
16" OVERSIZE (12" REQUIRED) WATER MAIN EXTENSION

BID QUANTITIES

SPEC. ITEM NO.	ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT PRICE	AMOUNT
WATER DISTRIBUTION IMPROVEMENTS						
100	1.	Mobilization	LS	1	\$50,000.00	\$50,000.00
101	2.	R.O.W. Preparation	LS	1	\$10,000.00	\$10,000.00
100	3.	Intermediate Mobilization and Demobilization (See Note 1 Below)	LS	1	\$25,000.00	\$25,000.00
856	4.	24" Steel Casing (Jack and Bore Complete) (See Note 2 Below)	LF	240	\$300.00	\$72,000.00
856	5.	36" Steel Casing (Jack and Bore Complete) (See Note 2 Below)	LF	52	\$450.00	\$23,400.00
307	6.	Saw-Cut and Replace Concrete Rip-Rap	LS	1	\$25,000.00	\$25,000.00
828	7.	12" Gate Valve, MJ w/ Valve Box	EA	4	\$3,710.00	\$14,840.00
818	8.	16" x 12" Tee, MJ	EA	4	\$9,110.00	\$36,440.00
818	9.	12" PVC C-900 Class 235, DR 18	EA	301	\$85.10	\$25,615.10
818	10.	16" PVC C-900 Class 235, DR 18	LF	5,794	\$113.00	\$654,722.00
828	11.	16" Gate Valve, MJ w/ Valve Box	EA	10	\$4,947.00	\$49,470.00
834	12.	Standard Fire hydrant assembly	EA	12	\$7,200.00	\$86,400.00
836	13.	D.I. Fittings (Restrained)	TON	5	\$5,450.00	\$27,250.00
844	14.	2" Blowoff Assembly (Temporary)	EA	1	\$895.00	\$895.00
844	15.	2" Blowoff Assembly (Permanent)	EA	5	\$2,610.00	\$13,050.00
839	16.	Joint Restraints	LS	1	\$24,000.00	\$24,000.00
841	17.	Hydrostatic Pressure Test	EA	6	\$2,890.00	\$17,340.00
550	18.	Trench Excavation Protection	LF	6,095	\$0.35	\$2,133.25
847	19.	Chlorination	LF	6,095	\$0.55	\$3,352.25
530	20.	Traffic Control	LS	1	\$15,000.00	\$15,000.00
540	21.	TPDES	LS	1	\$10,000.00	\$10,000.00
TOTAL WATER DISTRIBUTION IMPROVEMENTS:						\$1,185,907.60

SHEET INDEX

Sheet Description	Sheet No.
COVER SHEET	CW0.00
OVERALL WATER DISTRIBUTION PLANS	CW1.00
OVERALL WATER DISTRIBUTION PLANS	CW1.01
OVERALL WATER DISTRIBUTION PLANS	CW1.02
WATER DISTRIBUTION DETAILS	CW2.00
WATER DISTRIBUTION NOTES	CW3.00
TRAFFIC CONTROL DETAILS	CW4.00
TRAFFIC CONTROL DETAILS	CW4.01
TRAFFIC CONTROL DETAILS	CW4.02
TRAFFIC CONTROL DETAILS	CW4.03



LOCATION MAP

NOT-TO-SCALE

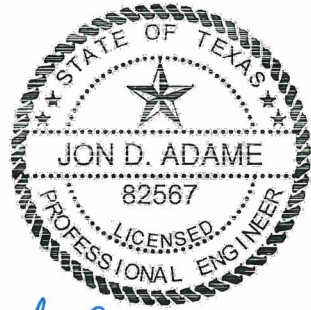
PREPARED FOR:

LENNAR HOMES OF TEXAS, INC.
100 NE LOOP 410, SUITE 1155
SAN ANTONIO, TX 78216

DECEMBER 2024

PAPE-DAWSON
ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800

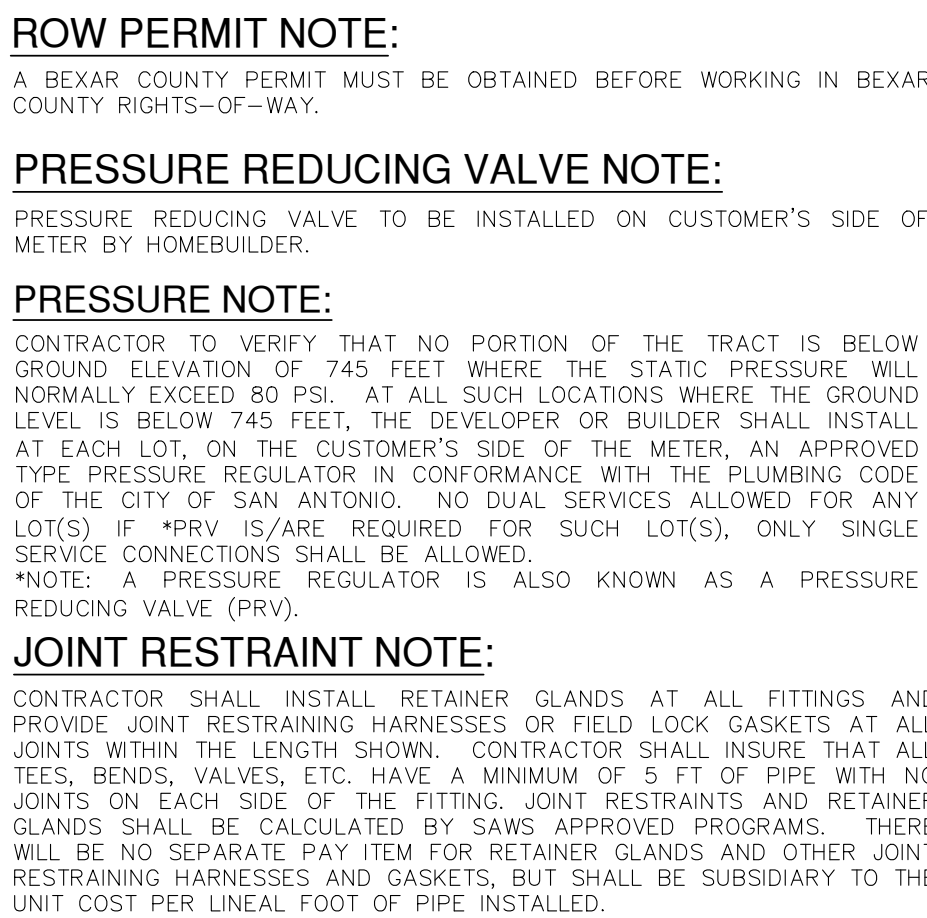
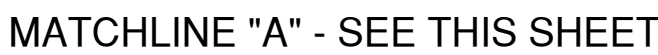


Jon D. Adame
12-20-24

WATER (SAWS PRESSURE ZONE 4 (930 HGL))

DEVELOPER'S NAME: LENNAR HOMES OF TX LAND AND CONST., LTD.
ADDRESS: 100 NE LOOP 410, SUITE 1155
CITY: SAN ANTONIO STATE: TX ZIP: 78216
PHONE# (210) 889-5516 EMAIL: RICHARD.MOTT@LENNAR.COM
SAWS BLOCK MAP# 082556 TOTAL EDU'S N/A TOTAL ACREAGE N/A
TOTAL LINEAR FOOTAGE OF PIPE: 16" - 5,794 LF PLAT NO. -
NUMBER OF LOTS N/A SAWS JOB NO. GCP-255162 (22-1117)

SHEET CW0.00



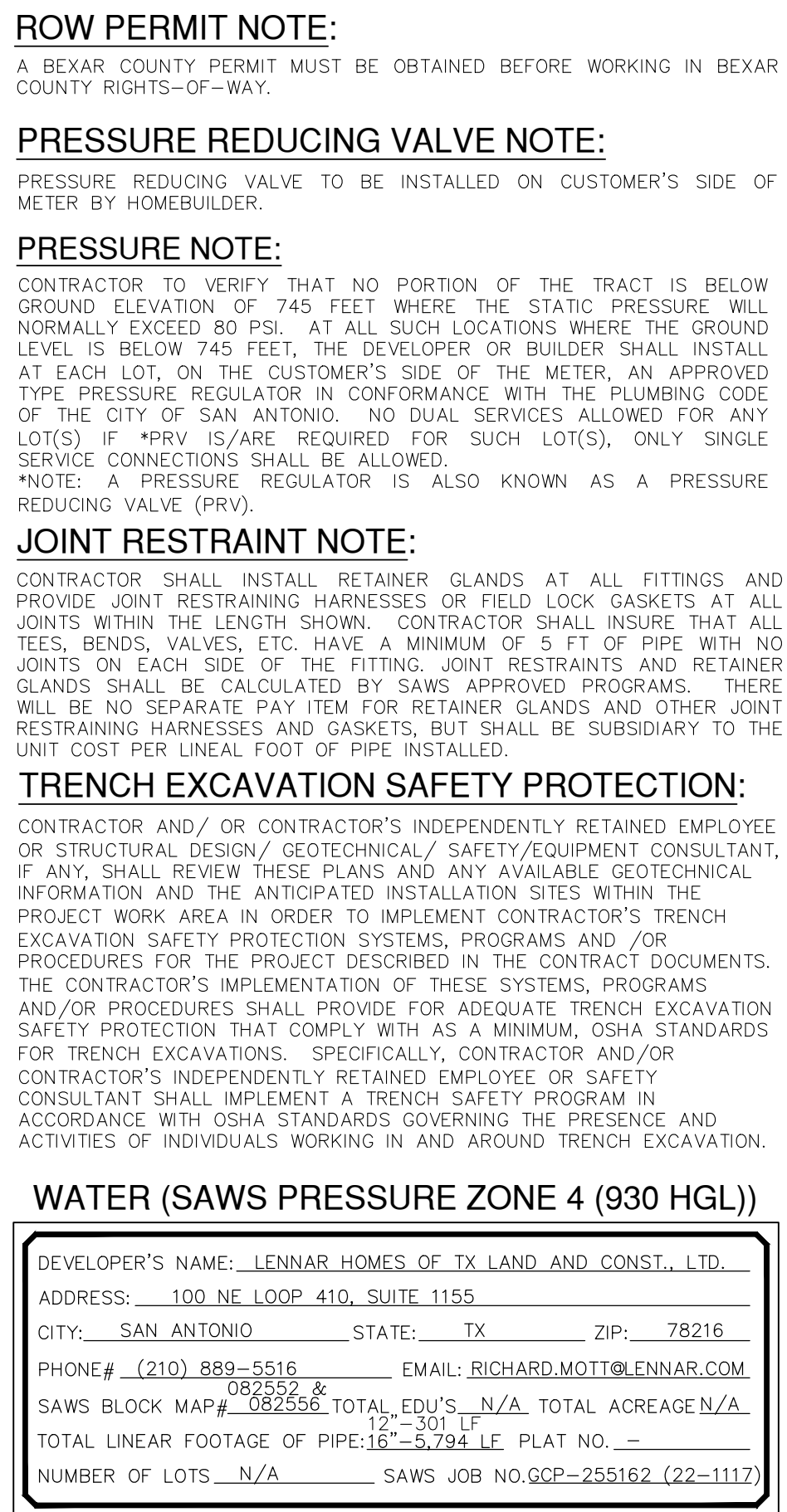
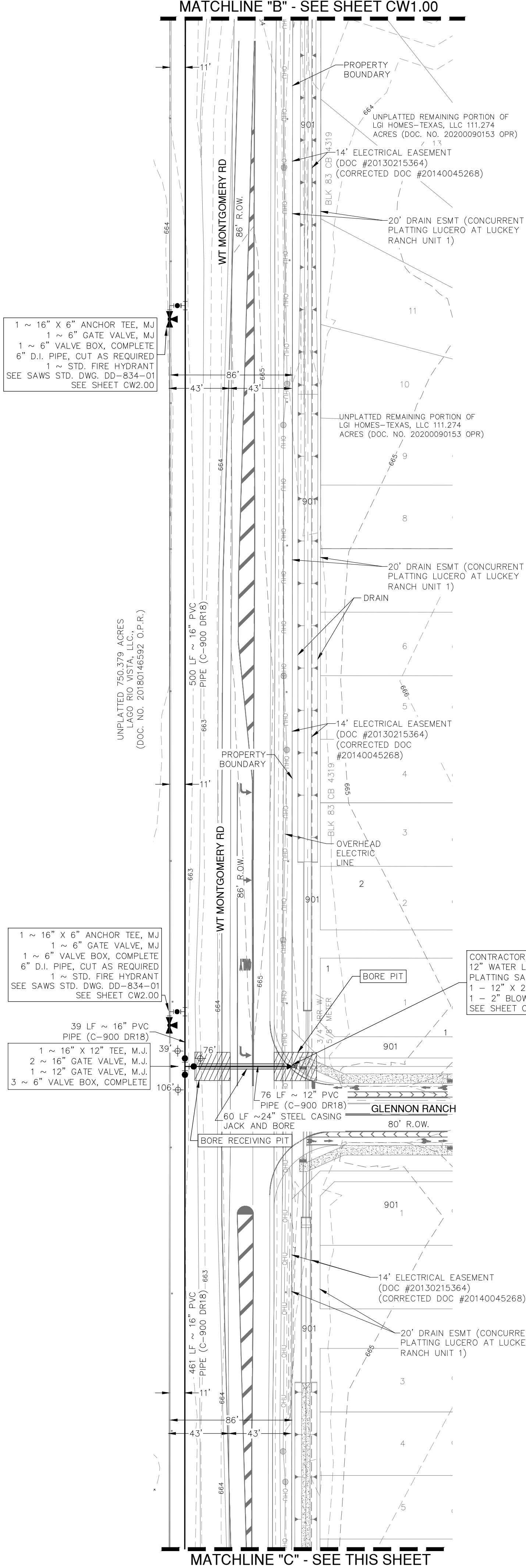
FIRE FLOW NOTE:

IN AN EFFORT TO MEET THE CITY OF SAN ANTONIO'S FIRE FLOW REQUIREMENTS FOR THE PROPOSED REHABILITATION DEVELOPMENT, THE PUBLIC WATER MAIN SYSTEM HAS BEEN DESIGNED FOR A MINIMUM FIRE FLOW DEMAND OF 1500 GPM AT 25 PSI RESIDUAL PRESSURE. THE FIRE FLOW REQUIREMENTS FOR INDIVIDUAL STRUCTURES WILL BE REVIEWED DURING THE BUILDING PERMIT PROCESS IN CONJUNCTION WITH THE CITY OF SAN ANTONIO'S PLANNING AND ZONING DIRECTOR OF DEVELOPMENT SERVICES DEPARTMENT AND THE SAN ANTONIO FIRE DEPARTMENT FIRE MARSHAL.

WATER (SAWS PRESSURE ZONE 4 (930 HGL))

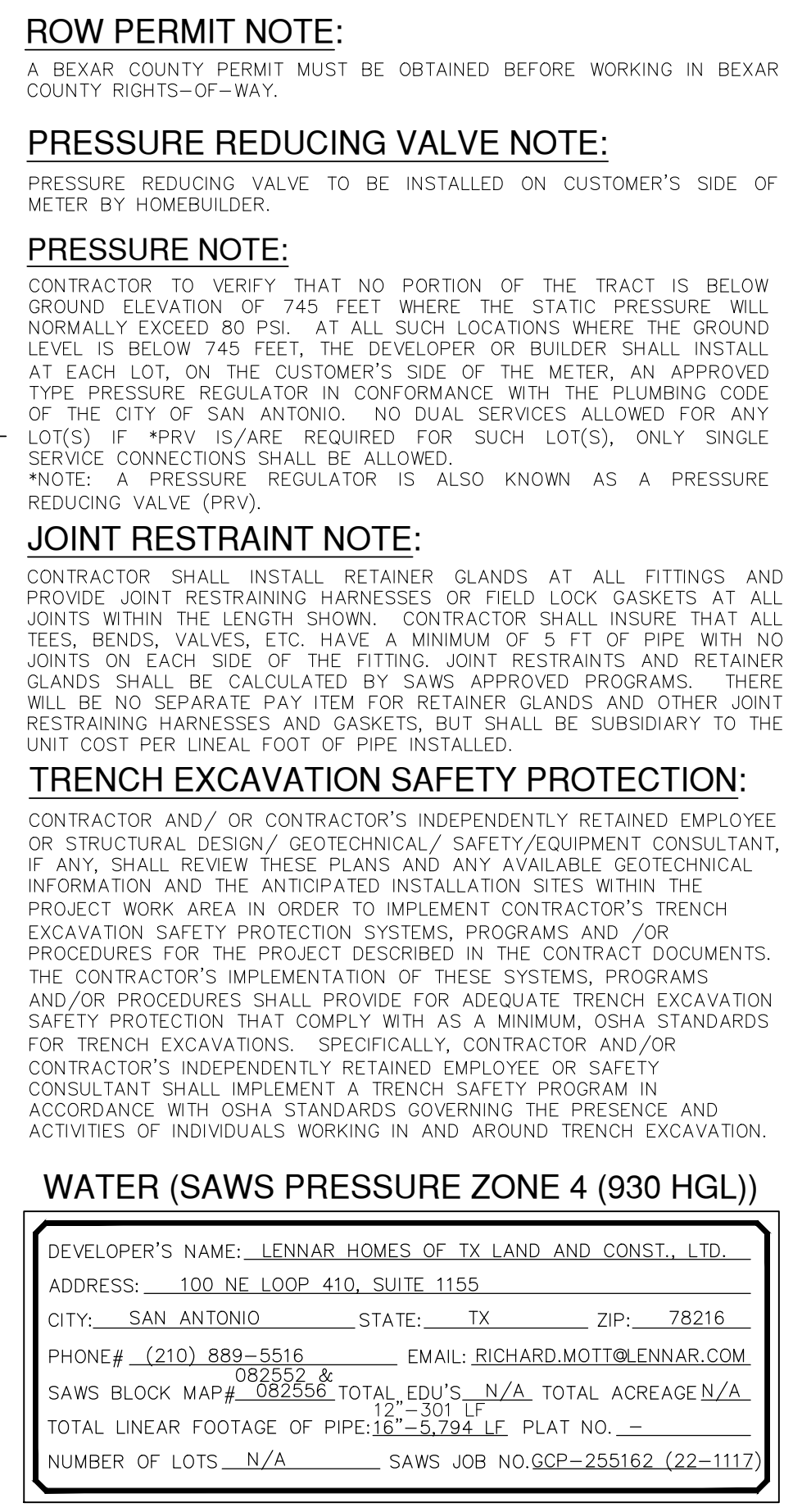
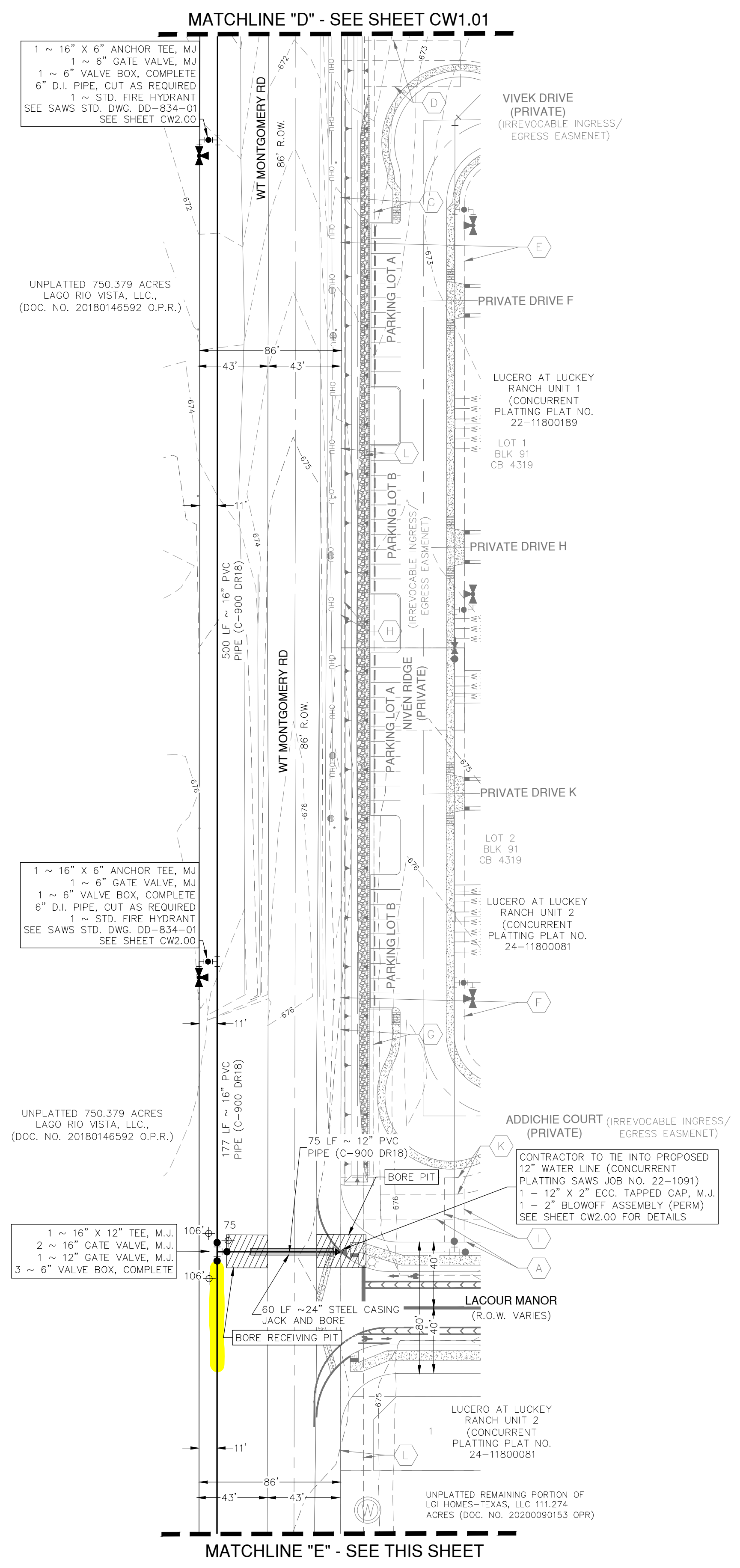
DEVELOPER'S NAME: LENNAR HOMES OF TX, LAND AND CONSTRUCTION, LTD.
ADDRESS: 100 NE LOOP 410, SUITE 1155
CITY: SAN ANTONIO STATE: TX ZIP: 78216
PHONE# (210) 889-5516 EMAIL: RICHARD.MOTT@LENNAR.COM
SAWS BLOCK MAP: 062552-2 TOTAL DEED# N/A TOTAL ACRES N/A
TOTAL LINEAR FOOTAGE OF PIPE: 12' - 301 FT
TOTAL LINEAR FOOTAGE OF PIPE: 12' - 301 FT PLAT NO.
NUMBER OF LOTS N/A SAWS JOB NO. GCP-255162 (22-1117)

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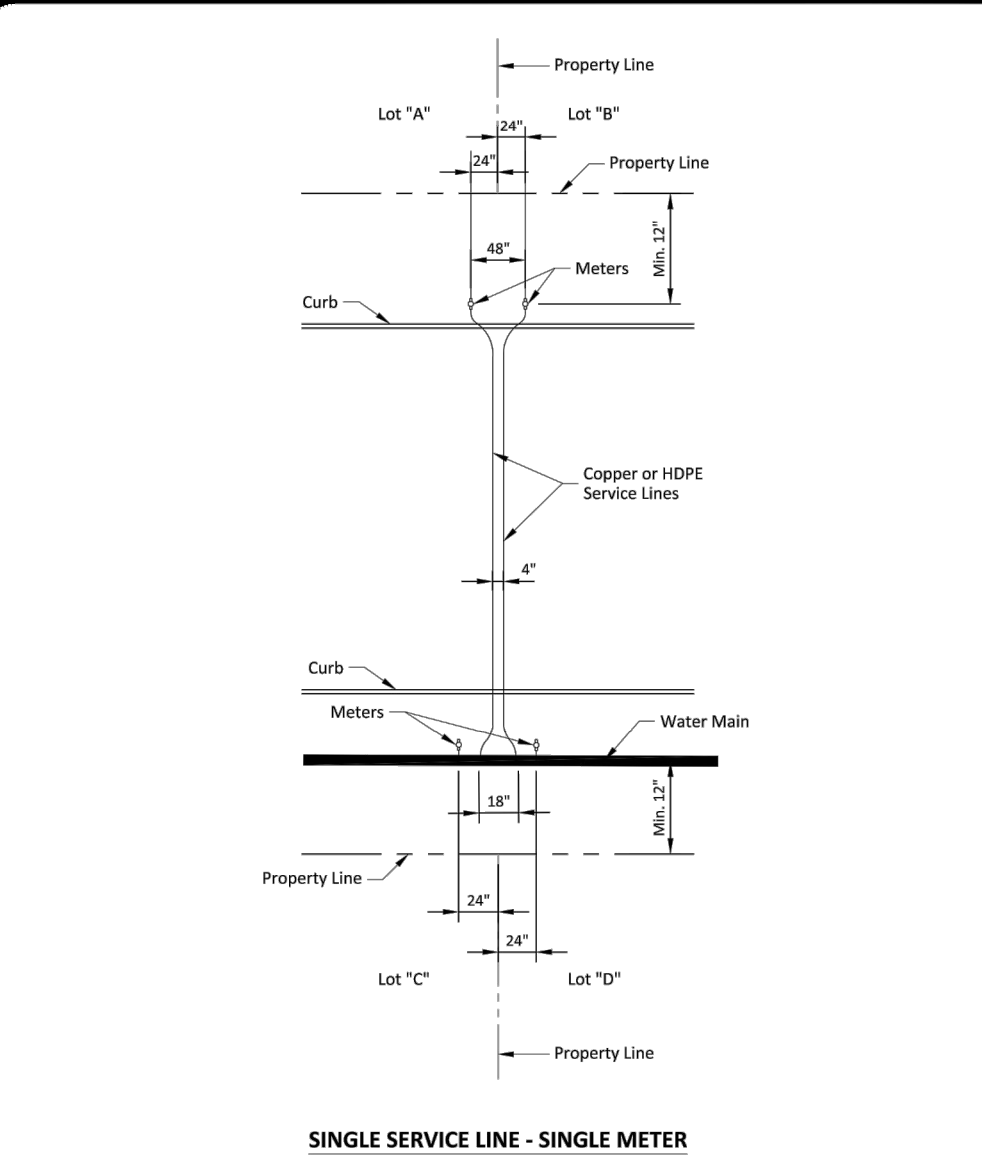


PLAT NO. _____
JOB NO. 13055-23
DATE NOVEMBER 2024
DESIGNER _____ CR
CHECKED JA DRAWN JF
SHEET **CW1.01**

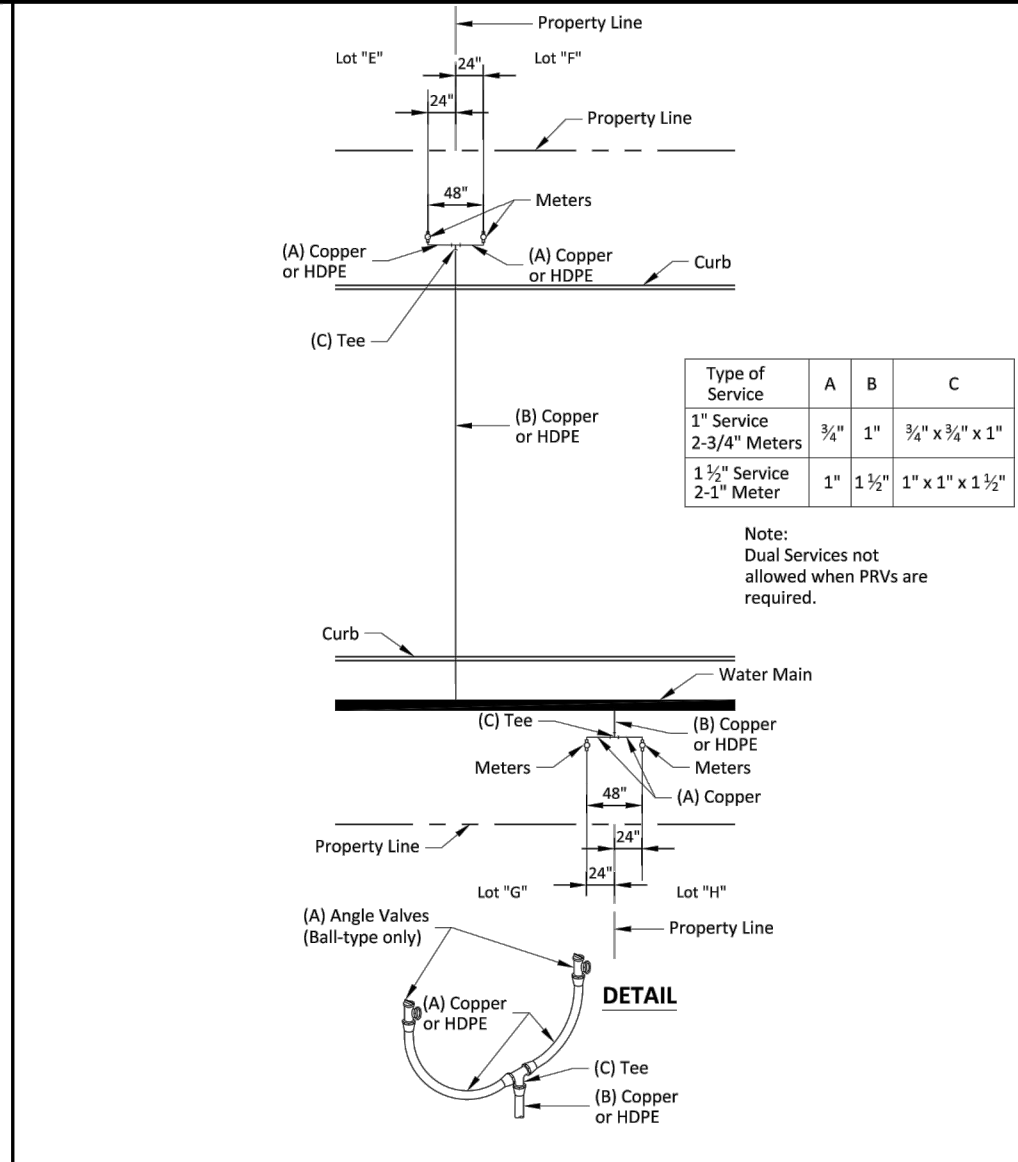
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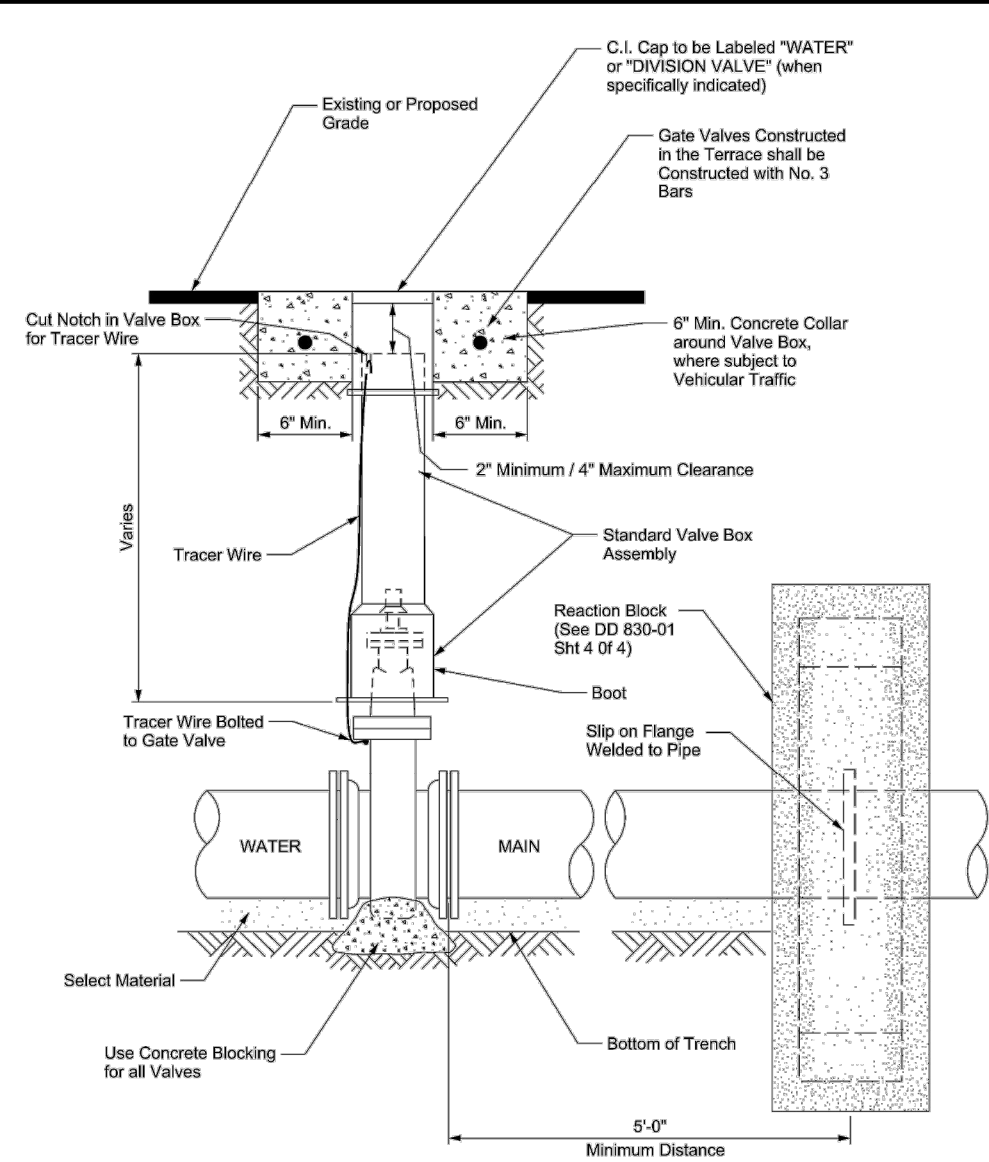
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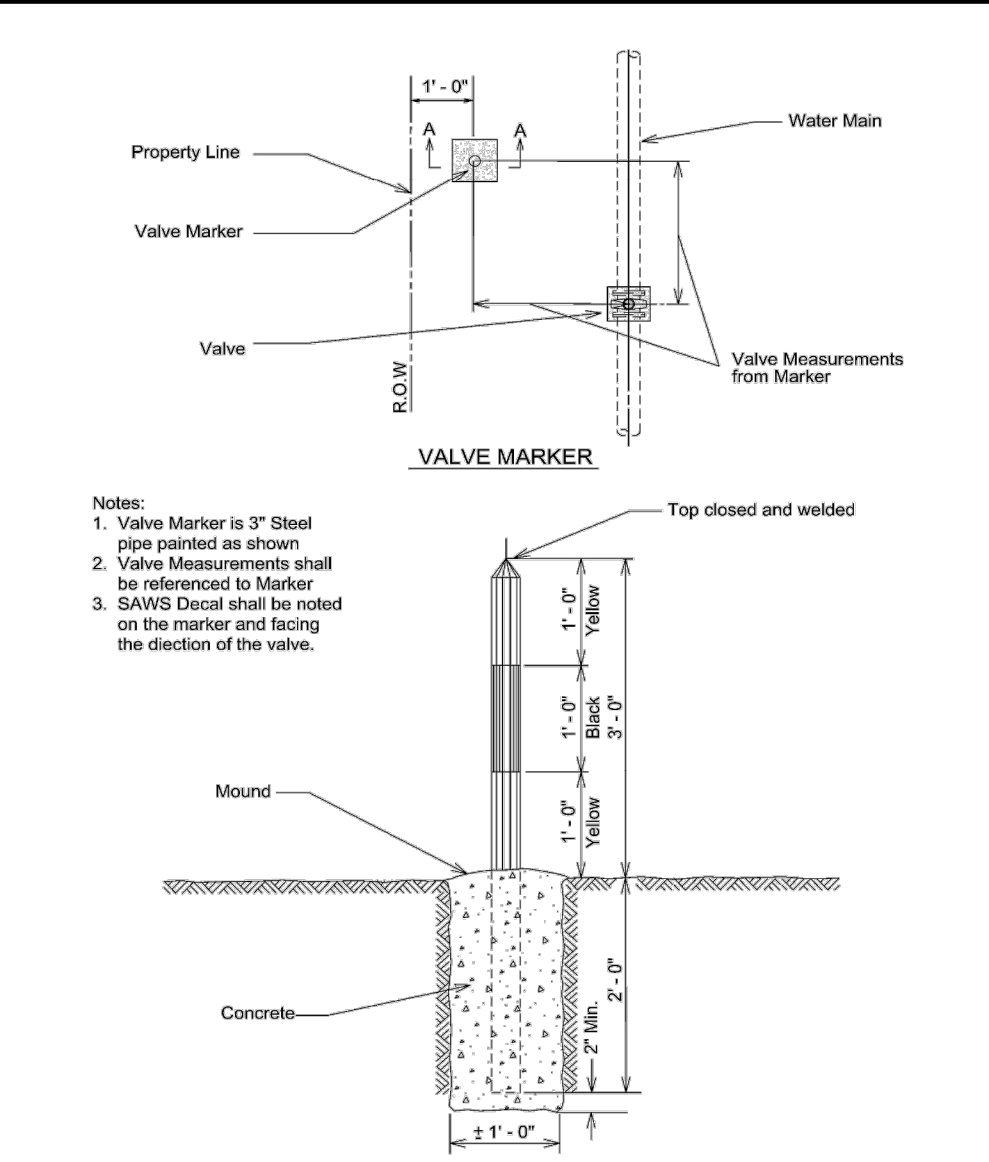
PROPERTY OF	TYPICAL	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM	NEW DEVELOPMENT SERVICE ARRANGEMENT	MARCH 2008	DECEMBER 2018
SAN ANTONIO, TEXAS		DD-824-05	
			SHEET 1 OF 3



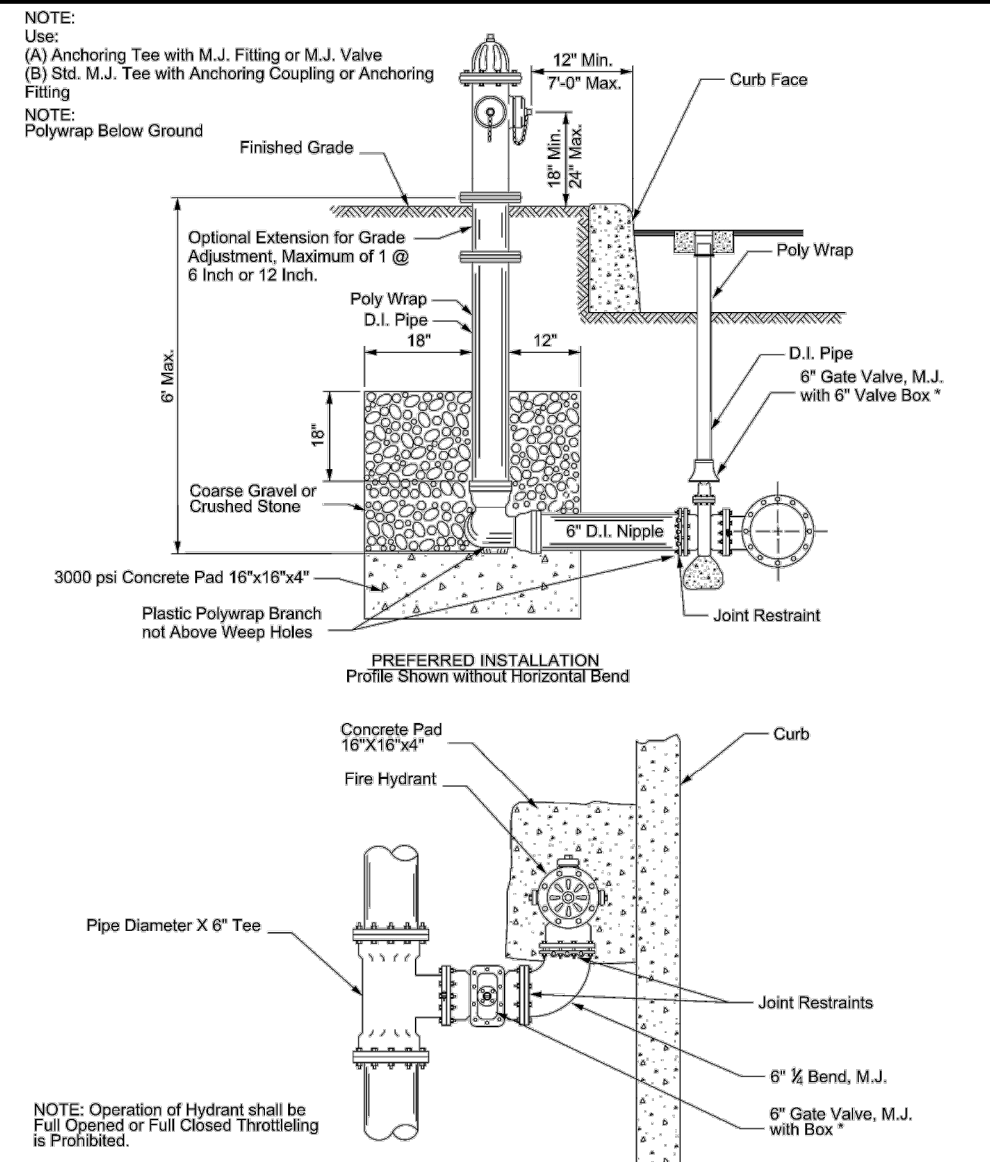
PROPERTY OF	TYPICAL	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM	SERVICE ARRANGEMENT	MARCH 2008	DECEMBER 2018
SAN ANTONIO, TEXAS		DD-824-05	
			SHEET 2 OF 3



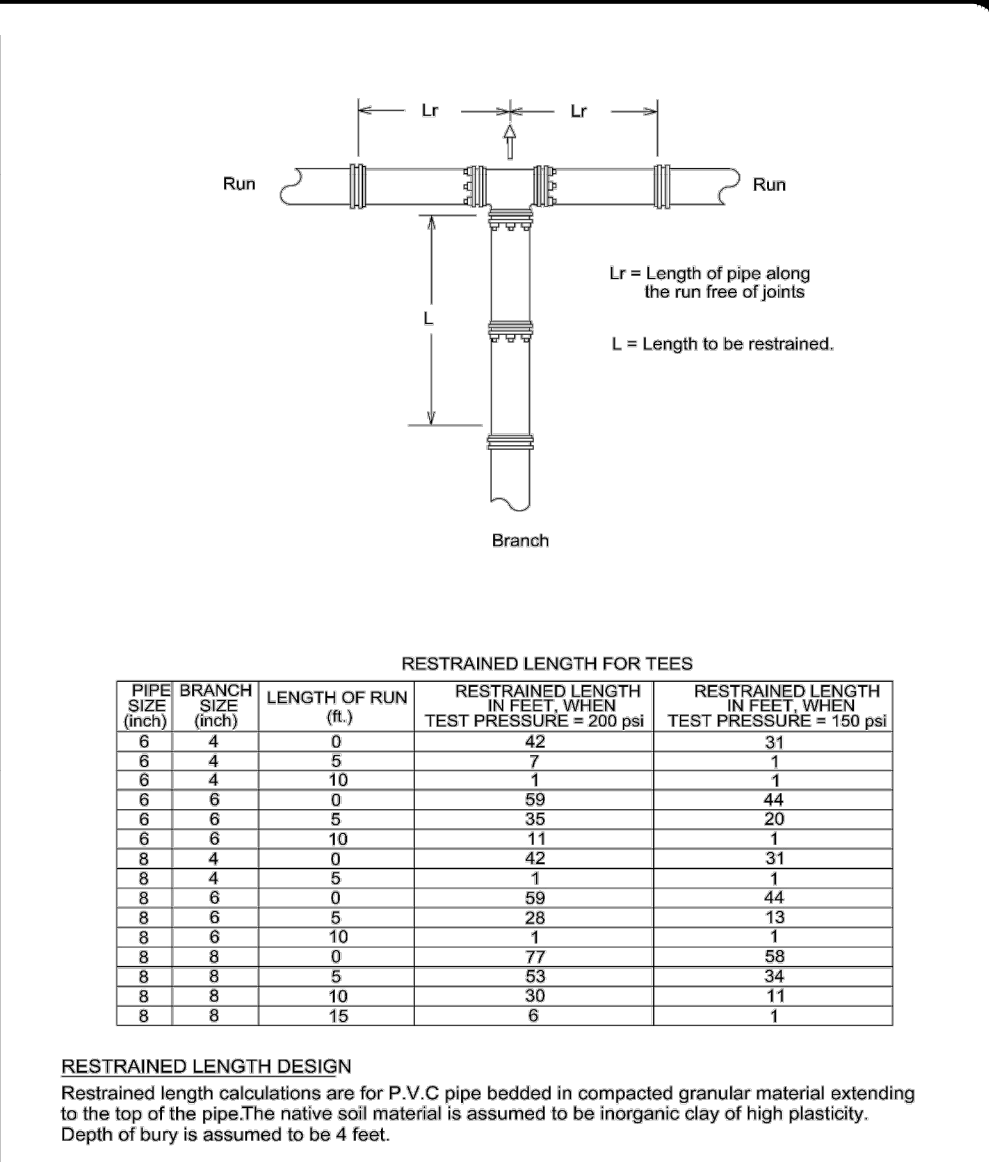
PROPERTY OF	TYPICAL	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM	INSTALLATION OF NON-GEARED GATE VALVE WITH VALVE BOX AND EXTENSION	MARCH 2008	AUG 2019
SAN ANTONIO, TEXAS		DD 828-01	
			SHEET 1 OF 1



PROPERTY OF	TYPICAL	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM	VALVE MARKER	MARCH 2008	AUG 2019
SAN ANTONIO, TEXAS		DD-828-04	
			SHEET 1 OF 1



PROPERTY OF	TYPICAL	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM	FIRE HYDRANT INSTALLATION (JOINT RESTRAINT)	MAY 2013	AUG 2019
SAN ANTONIO, TEXAS		DD-834-01	
			SHEET 1 OF 3



PROPERTY OF	TYPICAL	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM	RESTRAINED LENGTHS FOR TEES	MARCH 2008	AUG 2019
SAN ANTONIO, TEXAS		DD-839-04	
			SHEET 1 OF 2

PIPE SIZE (in)	BRANCH SIZE (in)	LENGTH OF RUN (ft)	RESTRAINED LENGTH IN FEET WHEN TEST PRESSURE = 200 psi	RESTRAINED LENGTH IN FEET WHEN TEST PRESSURE = 150 psi
12	4	0	31	1
12	4	5	39	44
12	6	0	32	1
12	6	5	13	1
12	6	10	1	1
12	8	0	77	68
12	8	5	42	23
12	8	10	7	1
12	8	15	1	1
12	10	0	109	82
12	12	5	86	58
12	12	10	63	36
12	12	15	39	12

RESTRAINED LENGTH DESIGN
Restrained length calculations are for P.V.C. pipe bedded in compacted granular material extending to the top of the pipe. The native soil material is assumed to be inorganic clay of high plasticity. Depth of bury is assumed to be 4 feet.

Note:
These calculations are provided for reference. The restrained length shall be designed based upon the conditions encountered during the installation.

PIPE SIZE (in)	RESTRAINED LENGTH IN FEET WHEN TEST PRESSURE = 200 psi	RESTRAINED LENGTH IN FEET WHEN TEST PRESSURE = 150 psi
6	59	44
8	77	68
10	93	89
12	109	82

RESTRAINED LENGTH DESIGN
Restrained length calculations are for P.V.C. pipe bedded in compacted granular material extending to the top of the pipe. The native soil material is assumed to be inorganic clay of high plasticity. Depth of bury is assumed to be 4 feet.

Note:
These calculations are provided for reference. The restrained length shall be designed based upon the conditions encountered during the installation.

PIPE SIZE (in)	BEND ANGLE (deg.)	LOW SIDE DEPTH (in)	UPPER BEND RESTRAINED LENGTH IN FEET TEST PRESSURE = 200 psi	LOWER BEND RESTRAINED LENGTH IN FEET TEST PRESSURE = 200 psi	UPPER BEND RESTRAINED LENGTH IN FEET TEST PRESSURE = 150 psi	LOWER BEND RESTRAINED LENGTH IN FEET TEST PRESSURE = 150 psi
6	45	5	24	8	18	6
6	22.5	5	12	4	9	3
6	11.25	5	6	2	4	1
6	45	10	24	8	18	4
6	22.5	10	12	4	9	2
6	11.25	10	6	1	4	1
8	45	5	32	11	24	8
8	22.5	5	15	5	11	4
8	11.25	5	8	3	6	2
8	45	10	32	7	24	6
8	22.5	10	15	3	11	2
8	11.25	10	8	2	6	1
12	45	5	45	16	34	12
12	22.5	5	22	7	16	6
12	11.25	5	11	4	8	3
12	45	10	45	10	34	7
12	22.5	10	22	5	16	3
12	11.25	10	11	2	8	2

RESTRAINED LENGTH DESIGN
Restrained length calculations are for P.V.C. pipe bedded in compacted granular material extending to the top of the pipe. The native soil material is assumed to be inorganic clay of high plasticity. Depth of bury is assumed to be 4 feet.

Note:
These calculations are provided for reference. The restrained length shall be designed based upon the conditions encountered during the installation.

PIPE SIZE (in)	SMALL SIZE (in)	RESTRAINED LENGTH IN FEET WHEN TEST PRESSURE = 200 psi	RESTRAINED LENGTH IN FEET WHEN TEST PRESSURE = 150 psi
6	4	30	23
8	4	32	24
8	6	32	24
12	4	36	27
12	6	60	60
12	8	58	43

RESTRAINED LENGTH DESIGN
Restrained length calculations are for P.V.C. pipe bedded in compacted granular material extending to the top of the pipe. The native soil material is assumed to be inorganic clay of high plasticity. Depth of bury is assumed to be 4 feet.

Note:
These calculations are provided for reference. The restrained length shall be designed based upon the conditions encountered during the installation.

PIPE SIZE (in)	BEND ANGLE (deg.)	RESTRAINED LENGTH IN FEET WHEN TEST PRESSURE = 200 psi	RESTRAINED LENGTH IN FEET WHEN TEST PRESSURE = 150 psi
6	90	23	17
6	45	9	7
6	22.5	5	3
6	11.25	3	2
8	90	32	22
8	45	12	9
8	22.5	6	4
8	11.25	3	2
12	90	43	32
12	45	18	13
12	22.5	9	6
12	11.25	4	3

RESTRAINED LENGTH DESIGN
Restrained length calculations are for P.V.C. pipe bedded in compacted granular material extending to the top of the pipe. The native soil material is assumed to be inorganic clay of high plasticity. Depth of bury is assumed to be 4 feet.

Note:
These calculations are provided for reference. The restrained length shall be designed based upon the conditions encountered during the installation.

PIPE SIZE (in)	RESTRAINED LENGTH IN FEET WHEN TEST PRESSURE = 200 psi	RESTRAINED LENGTH IN FEET WHEN TEST PRESSURE = 150 psi
6	42	1
6	4	1
6	5	1
6	10	1
6	5	1
6	10	1
8	5	1
8	10	1
8	5	1
8	10	1
8	5	1
8	10	1

RESTRAINED LENGTH DESIGN
Restrained length calculations are for P.V.C. pipe bedded in compacted granular material extending to the top of the pipe. The native soil material is assumed to be inorganic clay of high plasticity. Depth of bury is assumed to be 4 feet.

Note:
These calculations are provided for reference. The restrained length shall be designed based upon the conditions encountered during the installation.

PROPERTY OF	RESTRAINED LENGTHS FOR TEES	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM		MARCH 2008	AUG 2019
SAN ANTONIO, TEXAS		DD-839-04	
			SHEET 2 OF 2

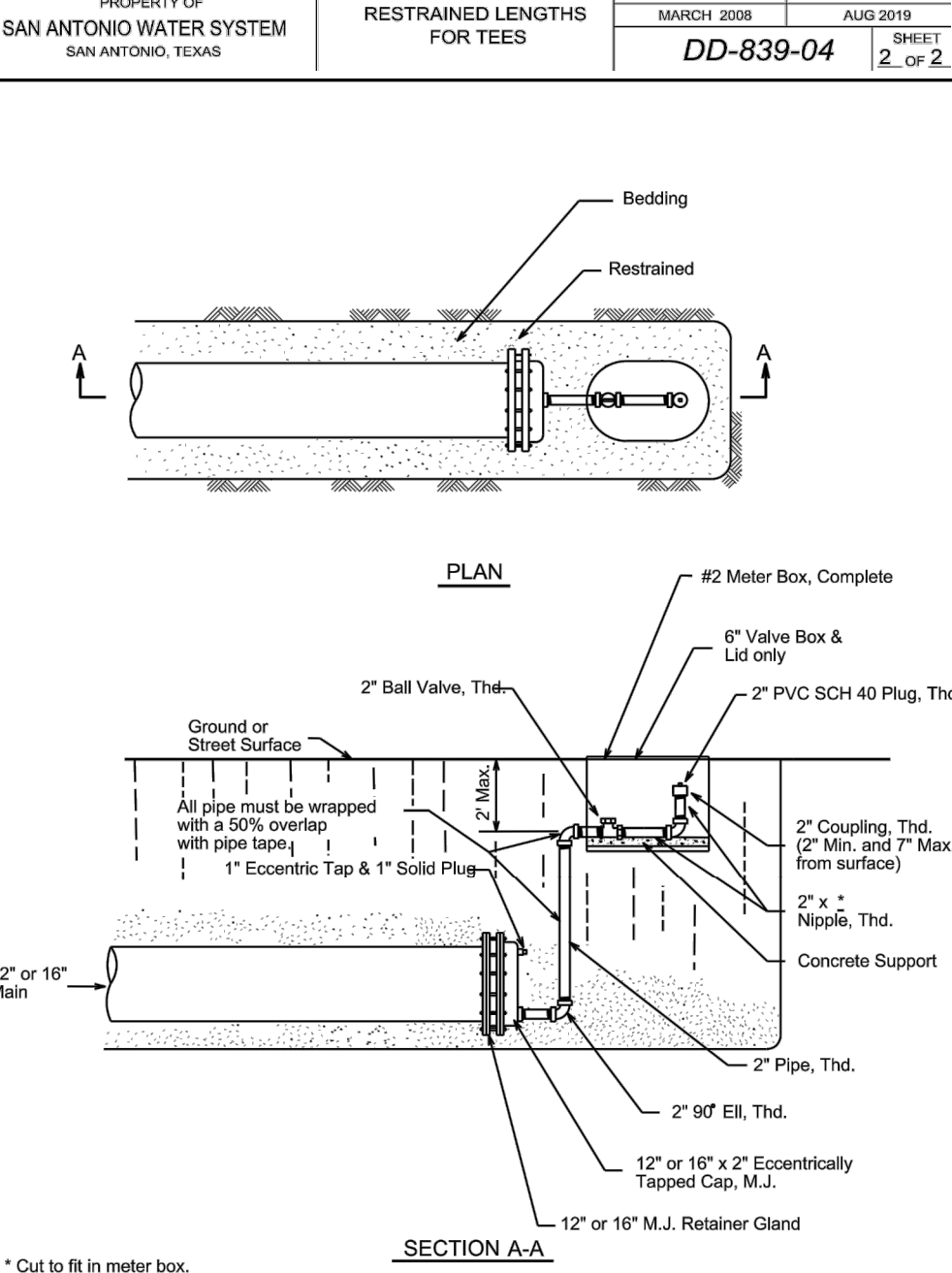
PROPERTY OF	RESTRAINED LENGTHS FOR DEAD ENDS / INLINE VALVES	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM		MARCH 2008	AUG 2019
SAN ANTONIO, TEXAS		DD-839-05	
			SHEET 1 OF 1

PROPERTY OF	RESTRAINED LENGTHS VERTICAL OFFSETS	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM		MARCH 2008	AUG 2019
SAN ANTONIO, TEXAS		DD-839-06	
			SHEET 1 OF 1

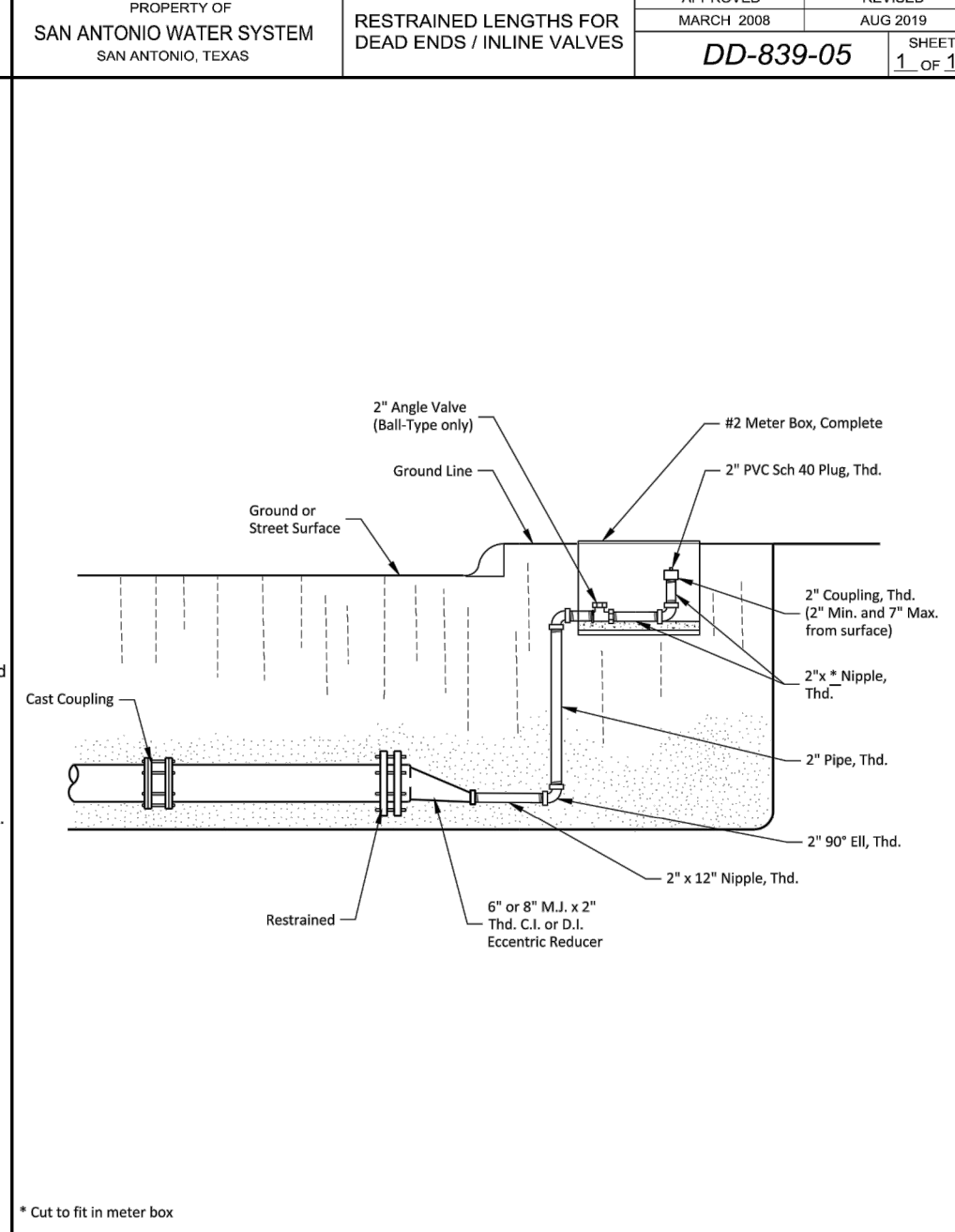
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SAN ANTONIO WATER SYSTEM		MARCH 2008	AUG 2019
SAN ANTONIO, TEXAS		DD-839-07	
			SHEET 1 OF 1

PROPERTY OF	RESTRAINED LENGTHS FOR HORIZONTAL BENDS	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM		MARCH 2008	AUG 2019
SAN ANTONIO, TEXAS		DD-839-08	
			SHEET 1 OF 1

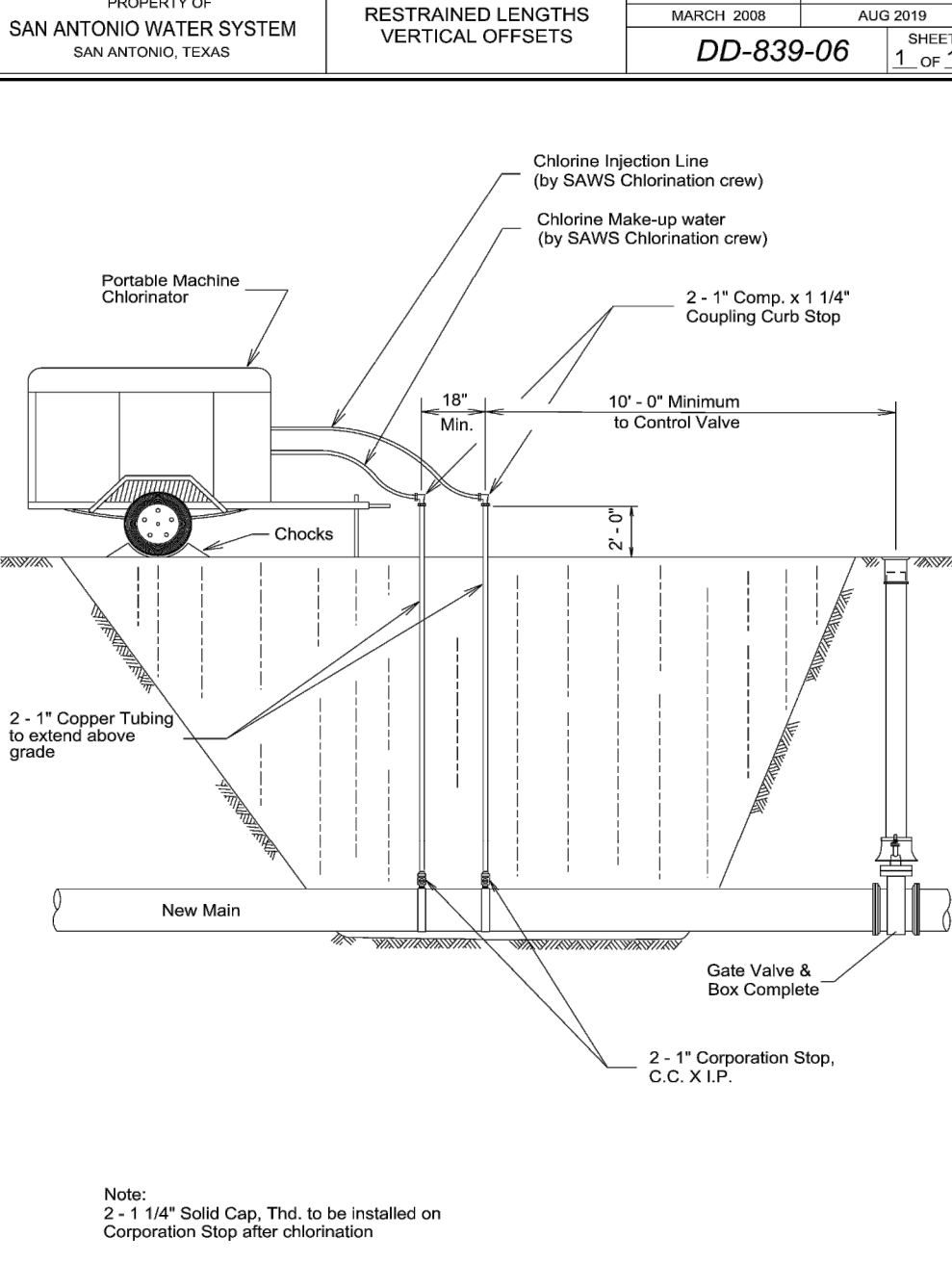
PROPERTY OF	2" TEMPORARY BLOW-OFF ASSEMBLY ON 12" & 16" MAINS	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM		MARCH 2008	AUG 2019
SAN ANTONIO, TEXAS		DD-844-01	
			SHEET 2 OF 4



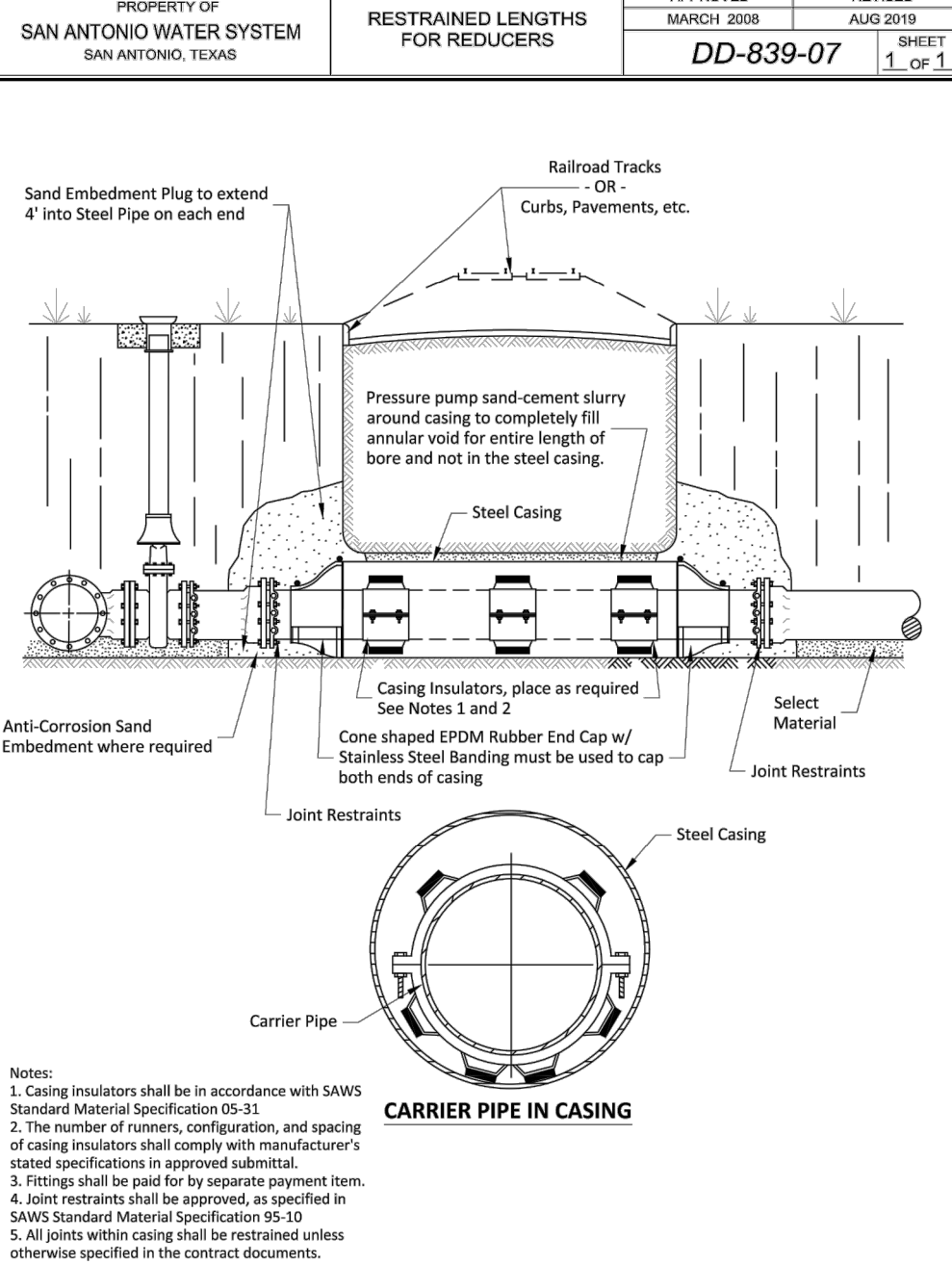
PROPERTY OF	TYPICAL	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM	2" PERMANENT BLOW-OFF ASSEMBLY ON 12" & 16" MAINS	MAY 2013	AUG 2019
SAN ANTONIO, TEXAS		DD-844-02	
			SHEET 1 OF 5



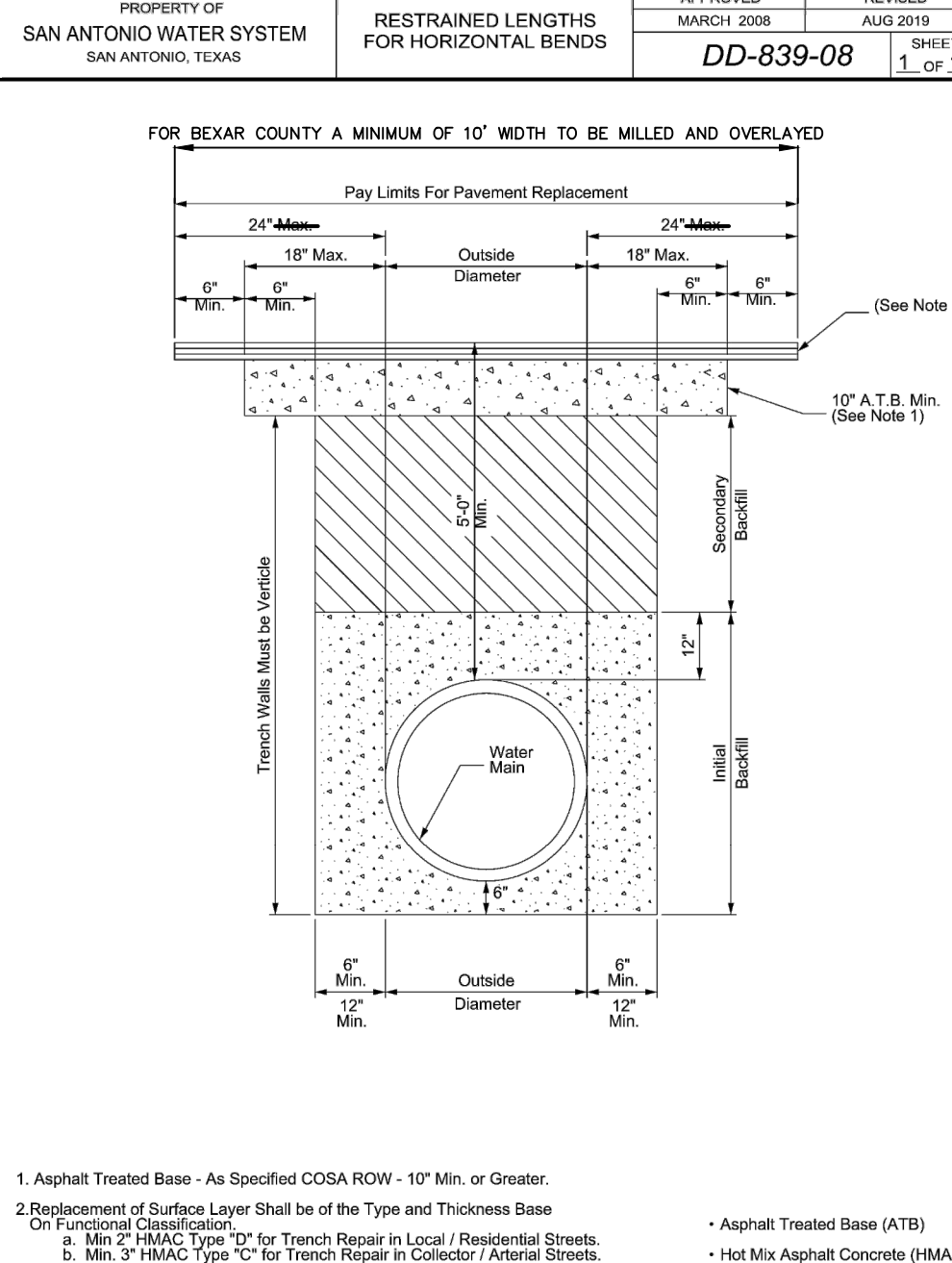
PROPERTY OF	TYPICAL	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM	2" PERMANENT BLOW-OFF ASSEMBLY ON 6" & 8" MAINS	MARCH 2008	AUG 2019
SAN ANTONIO, TEXAS		DD-844-02	
			SHEET 3 OF 5



PROPERTY OF	TYPICAL	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM	STANDARD CHLORINATION INSTALLATION	MARCH 2008	AUG 2019
SAN ANTONIO, TEXAS		DD-847-01	
			SHEET 1 OF 1



PROPERTY OF	TYPICAL	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM	INSTALLATION OF WATER PIPE IN CASING WITH JOINT RESTRAINTS	MARCH 2008	NOVEMBER 2019
SAN ANTONIO, TEXAS		DD-856-02	
			SHEET 1 OF 1



PROPERTY OF	TYPICAL	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM	POTABLE AND RECYCLED WATER MAIN DETAIL	MARCH 2008	AUG 2019
SAN ANTONIO, TEXAS		DD-812-01	
			SHEET 2 OF 2



PROPERTY OF	TYPICAL	APPROVED	REVISED
SAN ANTONIO WATER SYSTEM	WATER (SAWS PRESSURE ZONE 4 (930 HGL))	MARCH 2008	AUG 2019
SAN ANTONIO, TEXAS		DD-812-01	
			SHEET 2 OF 2

DEVELOPER'S NAME: LENNAR HOMES OF TX LAND AND CONST., LTD.
ADDRESS: 100 NE LOOP 410, SUITE 1155
CITY: SAN ANTONIO STATE: TX ZIP: 78216
PHONE# (210) 889-5516 EMAIL: RICHARD.MOIT@LENNAR.COM
SAWS BLOCK MAP# 082556 TOTAL EDU'S N/A TOTAL ACREAGE N/A
TOTAL LINEAR FOOTAGE OF PIPE: 16"-5,794 LF PLAT NO. -
NUMBER OF LOTS N/A SAWS JOB NO. GCP-255162 (22-1117)

DATE

NO. REVISION

STATE OF TEXAS
JON D. ADAMS
82567
LICENSED PROFESSIONAL ENGINEER

12-20-24

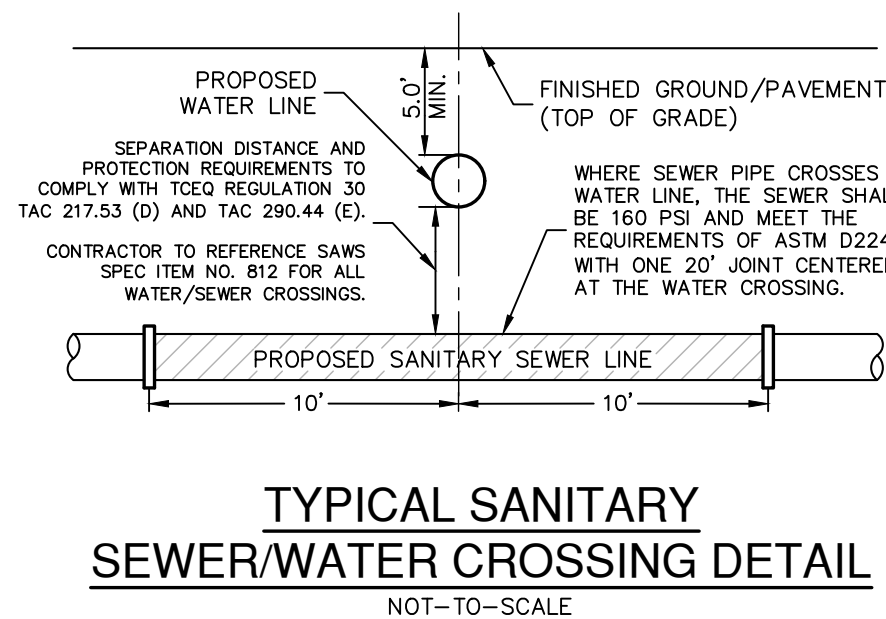
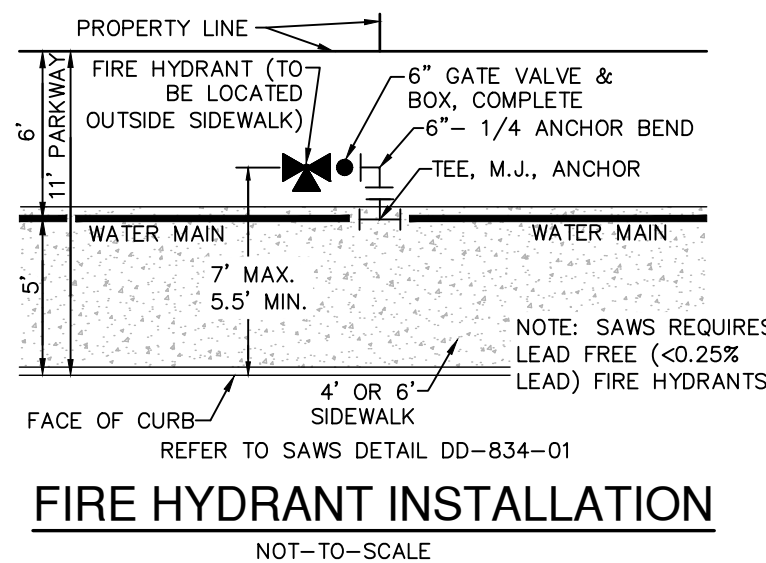
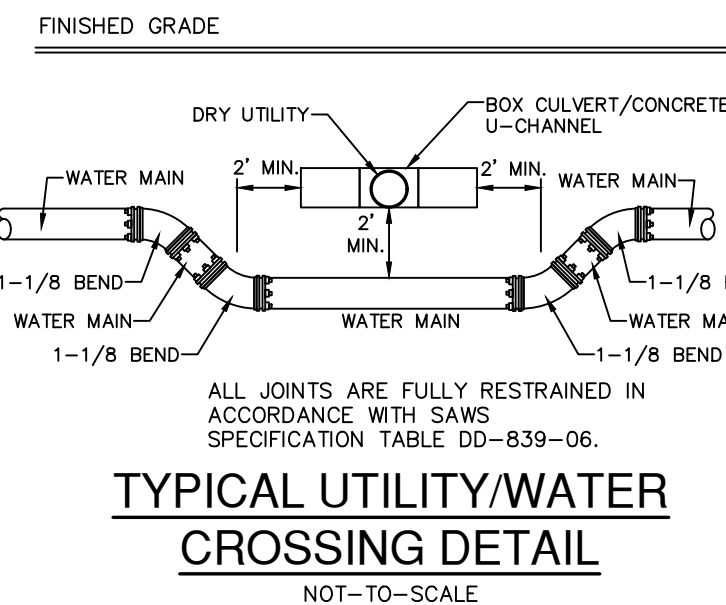
PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1002860

BLOSSOM RANCH UNIT 1A OFF-SITE WATER
16" OVERSIZE (12" REQUIRED) WATER MAIN EXTENSION
SAN ANTONIO, TEXAS

WATER DISTRIBUTION DETAILS

PLAT NO. -
JOB NO. 13055-23
DATE NOVEMBER 2024
DESIGNER CR
CHECKED JA DRAWN JF
SHEET CW2.00



SAWS CONSTRUCTION NOTES
(LAST REVISED JULY 2017)

SAWS GENERAL SECTION

- 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 CITY OF SAN ANTONIO SPECIFICATIONS, GENERAL CONDITIONS AND WITH THE FOLLOWING AS APPLICABLE:
- A. CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEMS, TEXAS ADMINISTRATIVE CODE (TAC) TITLE 30 PART 1 CHAPTER 217 AND "PUBLIC DRINKING WATER," TAC TITLE 30 PART 1 CHAPTER 290.
- B. CURRENT "TODOT" 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 THE CONSULTANT THAT THE 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, WWW.SAWS.ORG/BUSINESS_CENTER/SPECS, UNLESS OTHERWISE NOTED WITHIN THE DESIGN PLANS.
4. THE CONTRACTOR IS TO MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT (210) 233-2973, ON NOTIFICATION PROCEDURES THAT WILL BE USED TO NOTIFY AFFECTED HOME RESIDENTS AND/OR PROPERTY OWNERS 48 HOURS PRIOR TO BEGINNING ANY WORK.
5. LOCATION AND DEPTH OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATIONS AND DEPTHS WILL BE DETERMINED BY INSPECTION 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 2 WEEKS PRIOR TO CONSTRUCTION OF THE WORK. WORK SHALL NOT BE ALLOWED UNTIL 7 BUSINESS DAYS FOR THE LOCATES REQUESTING PIPE LOCATION MARKERS ON SAWS FACILITIES. THE FOLLOWING CONTACT INFORMATION ARE SUPPLIED FOR VERIFICATION PURPOSES:
- SAWS UTILITY LOCATES: [HTTP://WWW.SAWS.ORG/SERVICE/LOCATES](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 PRE-EXISTING CONDITION IF DAMAGES ARE MADE AS A RESULT OF THE PROJECT'S CONSTRUCTION.
8. ALL WORK IN TEXAS DEPARTMENT OF TRANSPORTATION (TxDOT) AND/OR BEYOND CITY OF SAN ANTONIO 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 CONSWORKREQ@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 CONSWORKREQ@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 98X 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 SWS INSPECTOR AND/OR THE TEST ADMINISTRATOR, PER EACH 12-INCH LOOSELY LIFT PER 400 LINEAR FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED FOR PAYMENT BY THE CITY OF SAN ANTONIO UNTIL THE TESTING HAS BEEN MET AND VERIFIED BY PROVIDING ALL NECESSARY DOCUMENTED TEST RESULTS.
13. A COPY OF ALL TESTING REPORTS SHALL BE FURNISHED TO SAWS CONSTRUCTION INSPECTION DIVISION.

SAWS WATER NOTES

- 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. IF THE SHUTDOWN OF THE CONTRACTOR'S TIE-INS REQUIRES A SEQUENCE OF WORKS AS REFERRED TO THE TIE-INS THIS IS AT AN 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) 233-2341
3. 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 DISPOSAL OF THIS PIPE OCCURS. SUCH WORK MUST BE MADE UNDER SPECIAL SPECIFICATION ITEM NO. 3000, "SPECIAL SPECIFICATION FOR HANDLING ASBESTOS CEMENT PIPE".
3. VALVE REMOVAL: WHERE THE CONTRACTOR IS TO ABANDON A WATER MAIN, THE CONTROL VALVE LOCATED ON THE ABANDONING BRANCH WILL BE REMOVED AND REPLACED WITH A CAP/PLUG. (NSPI)
4. SUITABLE ANCHORAGE/THRUST BLOCKING OR JOINT RESTRAINT SHALL BE PROVIDED AT ALL OF THE FOLLOWING MAIN LOCATIONS: DEAD ENDS, FLUGS, 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 745 FEET WHERE THE STATIC PRESSURE WOULD BE UNUSUALLY HIGH. IF THE PROPOSED VALVE LOCATIONS WHERE THE GROUND LEVEL IS BELOW 745 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 TO PREVENT MAIN BACTERIAL GROWTH. DISINFECTION AS DIRECTED BY THE INSPECTOR, 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 MEASURES 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. SAWS 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 IN CLOSE COORDINATION WITH ALL SAWS DEPARTMENTS. THE CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE INSPECTOR A MINIMUM OF TWO WEEKS IN ADVANCE TO START THE DISINFECTION PROCESS AND WILL BE INSTRUCTED BY THE CONTRACTOR TO OBTAIN WRITTEN APPROVAL OF THE DIVISION VALVE 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 VALVE WITHOUT THE WRITTEN APPROVAL OF THE SAWS DISTRIBUTION AND COLLECTION STAFF WILL CONSTITUTE A MATERIAL BREACH OF ANY WRITTEN SAWS CONTRACT OR PERMIT IN ADDITION TO THE VIOLATION OF THE SUBORDINATE 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 OF THE VALVE OR CLOSING OF EXPRESS PRIORITY SHALL BE REQUIRED FOR APPROVAL. DIVISION VALVES WILL ALSO HAVE A VALVE LID LABELED DIVISION VALVE AND A LOCKING MECHANISM INSTALLED WITH A KEY. THE LOCKING KEY WILL BE INSTALLED BY THE CONTRACTOR. THE CONTRACTOR 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" (1986 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 REQUIRE LEAD FREE ($< 0.25\%$) FIRE HYDRANTS.
15. UNLESS OTHERWISE NOTED ALL SERVICES SHALL BE 3/4" WITH 5/8" METER.

WATER (SAWS PRESSURE ZONE 4 (930 HGL))

DEVELOPER'S NAME: LENNAR HOMES OF TX LAND AND CONST., LTD.
ADDRESS: 100 NE LOOP 410, SUITE 1155
CITY: SAN ANTONIO STATE: TX ZIP: 78216
PHONE# (210) 889-5515 EMAIL: RICHARD.MOTT@LENNAR.COM
SAWS BLOCK MAP# 082558 TOTAL EDU'S N/A TOTAL ACREAGE N/A
TOTAL LINEAR FOOTAGE OF PIPE: 12,301 FEET PLAT NO. —
NUMBER OF LOTS N/A SAWS JOB NO. GCP-255162 (22-1117)

NO.	REVISION	DATE

Jon Adame
12-20-24

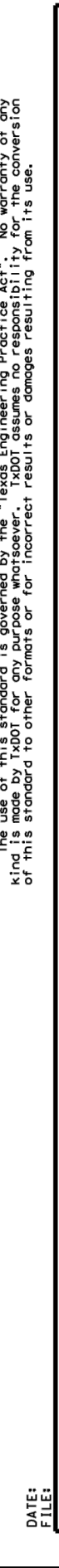
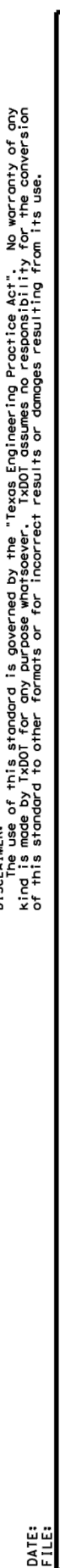
BLOSSOM RANCH UNIT 1A OFF-SITE WATER

16" OVERSIZE (12" REQUIRED) WATER MAIN EXTENSION

SAN ANTONIO, TEXAS

WATER DISTRIBUTION NOTES

PLAT NO. _____	-
JOB NO. _____	13055--23
DATE _____	NOVEMBER 2024
DESIGNER _____	CR
CHECKED <u>JA</u> , DRAWN <u>JF</u>	
SHEET _____	CW3.00



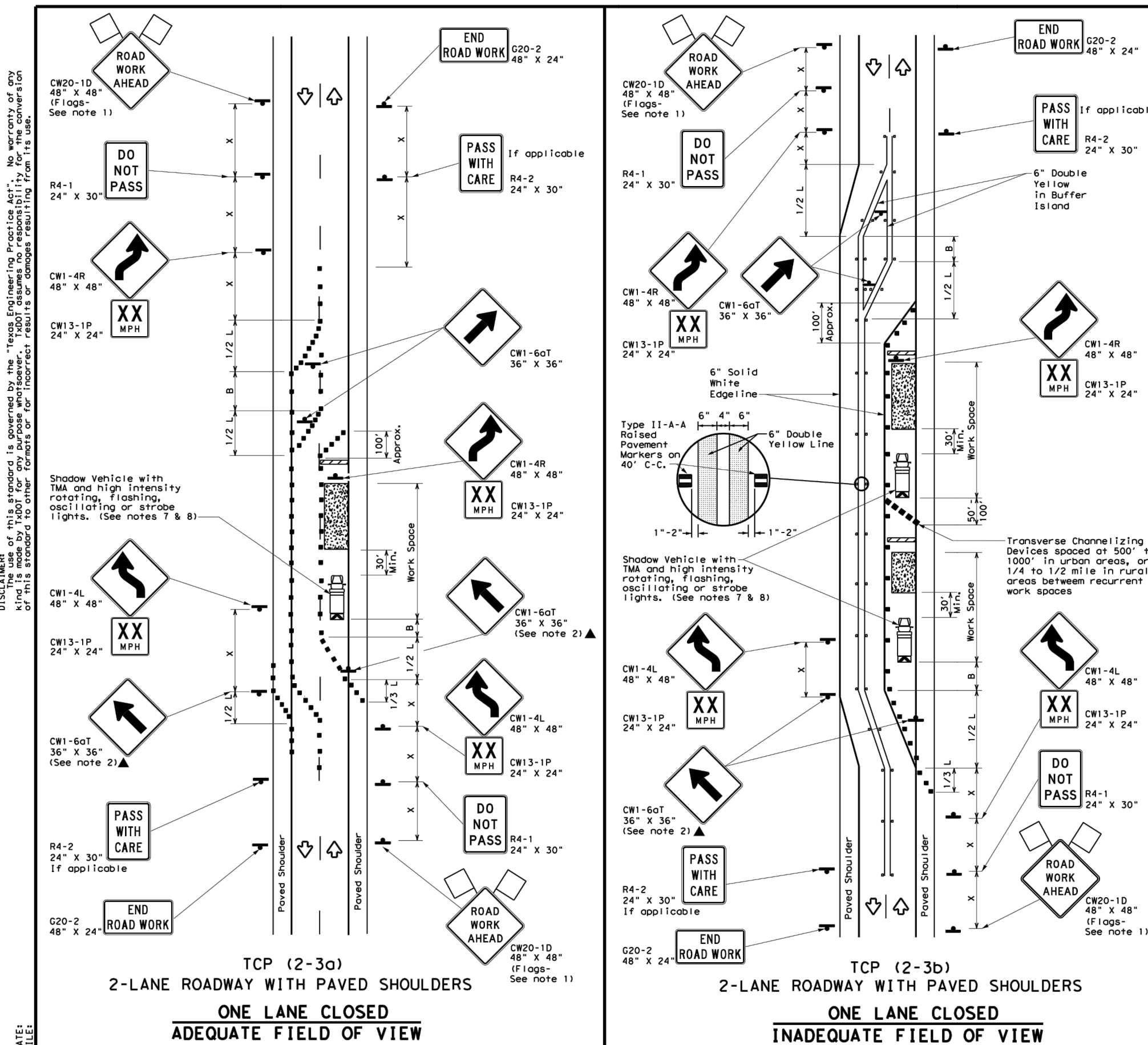
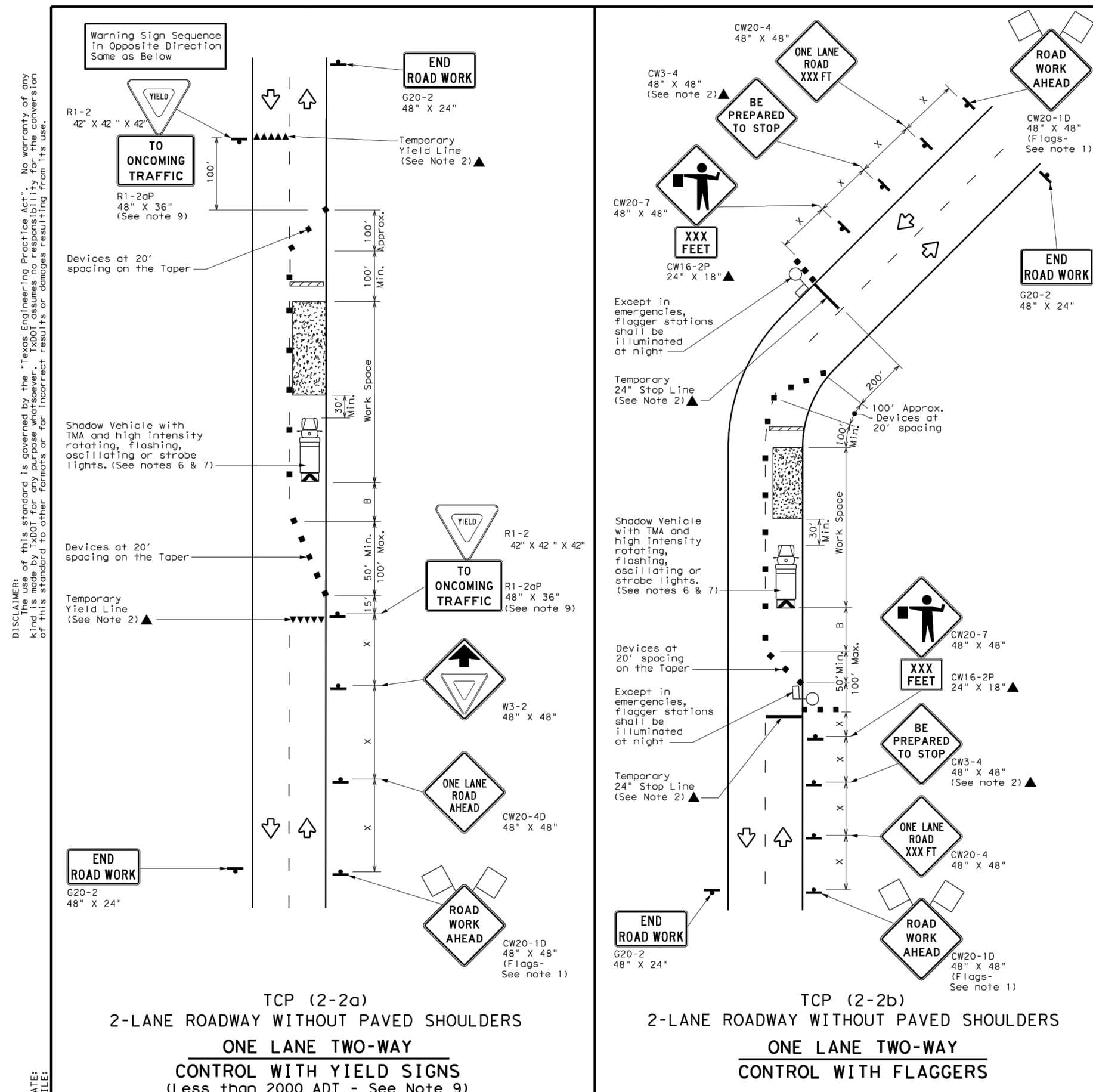




L PAPE DAWSON

NO.	REVISION



[illegible]

LEGEND

	Type 3 Barricade	Channelizing Devices	
Heavy Work Vehicle	Truck Mounted Attenuation (TMA)	Portable Changeable Message Sign (PCMS)	
Trailer Mounted Flashing Arrow Board	Traffic Flow	Flag	
Stop	Flag	Flag	

Posted Speed #	Formula #	Minimum Desirable Trailer Lengths ft. #	Suggested Minimum Spacing of Channelizing Devices ft. #	Minimum Spacing of Channelizing Devices ft. #	Suggested Longitudinal Buffer Space ft. #	Staging Sign Distance ft. #
30	150'	165'	180'	40'	120'	300'
35	205'	225'	245'	35'	70'	160'
40	265'	285'	320'	40'	80'	240'
45	300'	495'	540'	45'	90'	320'
50	500'	550'	600'	50'	100'	400'
55	500'	605'	660'	55'	110'	500'
60	660'	720'	780'	60'	120'	600'
65	850'	915'	980'	65'	130'	800'
70	700'	770'	840'	70'	140'	800'
75	750'	825'	900'	75'	150'	900'

* Conventional Roads Only
 ** Truck lengths have been rounded off.
 L=Length of Trailer (ft.) W=Width of Trailer (ft.) S=Posted Speed (mph)

TYPICAL USAGE

MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY

GENERAL NOTES

- Flags attached to signs where shown, are REQUIRED.
- All traffic control devices if placed are REQUIRED, except those denoted with the triangle symbol may be omitted when stored elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
- The 8x14-2E PREPARED TO STOP sign may be installed after the 0802-4 ONE LANE ROAD AHEAD sign. Flag spacing should be based on the ability of flag to communicate.
- Flags should be used to convey routes or other methods of communication to traffic.
- Length of work space should be based on the ability of flag to communicate.
- A Shadow vehicle with a TMA should be used anytime 1 mi. be positioned 30 to 100 feet in advance of the area of work. The length of the shadow vehicle should be the greater of the vehicle, if workers are no longer present but road or work conditions require the traffic control of the work.
- Type 3 Barricade, or other channelizing devices may be substituted for the Shadow vehicle and TMA.
- Additional Shadow Vehicles with TMA may be positioned off the paved surface, next to those shown in order to protect a wider work space.

TCIP (2-2a)

1. The 8x12-12E "sign" flag symbol may be used on projects with approaches that have adequate sight distance. For projects in urban areas, work space should be no longer than one half city block. In rural areas, roadways with less than 2000 ft./mi. work space should be no longer than 400 feet. The 8x12-12E TO OVERTAKE TRUCK sign shall be placed on a support of a 4' foot minimum mounting height.

TCIP (2-2b)

1. Channelizing devices on center line may be omitted when a pilot car is leading traffic and is operated by a flag person.

2. If the work space is located near a horizontal or vertical curve, the buffer distances should be increased in order to maintain staging sight distance to the flagger and a queue of stopped vehicles.

3. Flaggers should use 24" STOP/Slowdown signs to control traffic. Flags should be limited to emergency situations.

Traffic Operations Division
Standard

TRAFFIC CONTROL PLAN
ONE-LANE TWO-WAY
TRAFFIC CONTROL

TCIP (2-2)-18

PLAN	2022-2-18-03	DATE	02/21/22	BY	JAL
DESIGNED	02/02/2022	DESIGNED	1985	CHECKED	WJW
DATE	8-16-3-03	DATE	03/17/02	DATE	03/17/02
BY	P-17	BY	P-17	DATE	03/17/02
BY	03/17/02	DATE	03/17/02	DATE	03/17/02

Date: Nov 29, 2025 11:54am User ID: 4Gbbons
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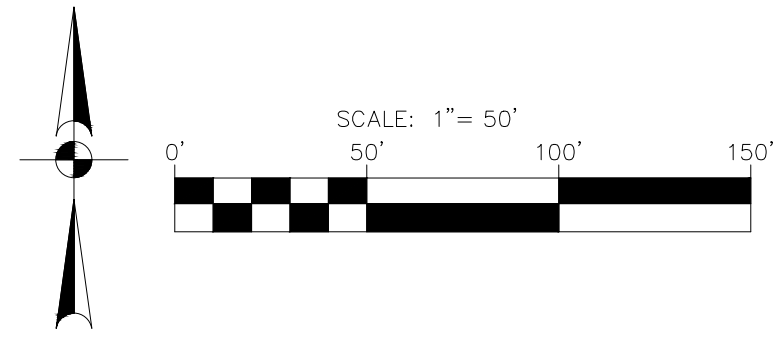
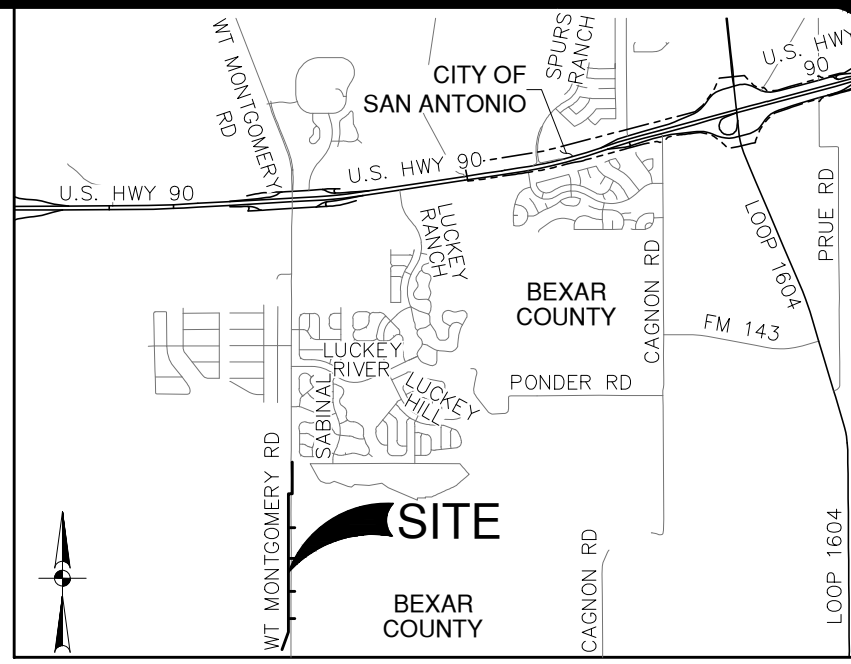
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PROJECT LIMITS
(±3.38 ACRES)

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(±3.38 ACRES)

CAUTION !!!

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SWPPP LEGEND

PROJECT LIMITS	
EXISTING CONTOUR	
PROPOSED CONTOUR	
EXISTING 100-YR FLOODPLAIN (FEMA DFIRM)	
EFFECTIVE 100-YR FLOODPLAIN (LOMR CASE NO. 20-1399P)	
FLOW ARROW	
SILT FENCE (±6,272 LF)	
ROCK BERM (±170 LF)	
GRAVEL FILTER BAGS (9 EACH) (500FT MAX. SPACING)	
LIMITS OF DISTURBED AREA (±3.38 AC)	
STABILIZED CONSTRUCTION ENTRANCE/EXIT (FIELD LOCATE)	
CONSTRUCTION EQUIPMENT, VEHICLE & MATERIALS STORAGE AREA (FIELD LOCATE)	
CONCRETE TRUCK WASH-OUT PIT (FIELD LOCATE)	
AREA TO BE REVEGETATED PER TPDES PERMIT REQUIREMENTS	

GENERAL NOTES

- DO NOT DISTURB VEGETATED AREAS (TREES, GRASS, WEEDS, BRUSH, ETC.) ANY MORE THAN NECESSARY FOR CONSTRUCTION.
- CONSTRUCTION ENTRANCE/EXIT LOCATION, CONCRETE WASH-OUT PIT, AND CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD TO BE DETERMINED IN THE FIELD.
- 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.
- RESTRICT ENTRY/EXIT TO THE PROJECT SITE TO DESIGNATED LOCATIONS BY USE OF ADEQUATE FENCING, IF NECESSARY.
- ALL STORM WATER POLLUTION PREVENTION CONTROLS ARE TO BE MAINTAINED AND IN WORKING CONDITIONS AT ALL TIMES.
- FOR A COMPLETE LISTING OF TEMPORARY STORM WATER POLLUTION PREVENTION PLAN.
- 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.
- 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.
- BEST MANAGEMENT PRACTICES MAY BE INSTALLED IN STAGES TO COINCIDE WITH THE DISTURBANCE OF UPGRADE AREAS.
- 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.
- 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.
- 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.
- 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 PLAN.
- PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL COORDINATE PLACEMENT OF TEMPORARY BEST MANAGEMENT PRACTICES WITHIN TxDOT RIGHT-OF-WAY WITH TxDOT.
- GPS ENERGY WILL FUNCTION AS A SECONDARY OPERATOR ON THIS PROJECT AND WILL BE INSTALLING ELECTRIC UTILITIES FOR ON-SITE CONSTRUCTION AND OFF-SITE FEED TO THE PROJECT.
- CONTRACTOR SHALL STAKE THE FLOODPLAIN BEFORE START OF CONSTRUCTION.

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 1

BLOSSOM RANCH UNIT 1A OFF-SITE WATER
16" OVERSIZE (12" REQUIRED) WATER MAIN EXTENSION
SAN ANTONIO, TEXAS

STORM WATER POLLUTION PREVENTION PLAN

PLAT NO. -
JOB NO. 13055-23
DATE NOVEMBER 2024
DESIGNER CR
CHECKED JA DRAWN AG
SHEET CW8.00

Pape-Dawson
ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

STATE OF TEXAS
JON D. ADAME
82567
PROFESSIONAL ENGINEER
3-28-25

DATE	NO.	REVISION

Date: Nov. 29, 2025, 11:56am User ID: 426bons
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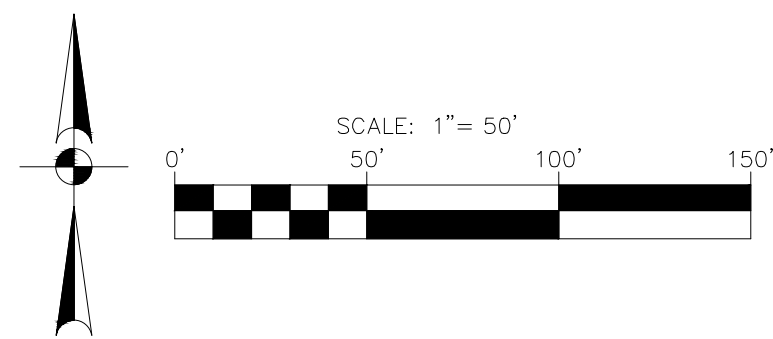
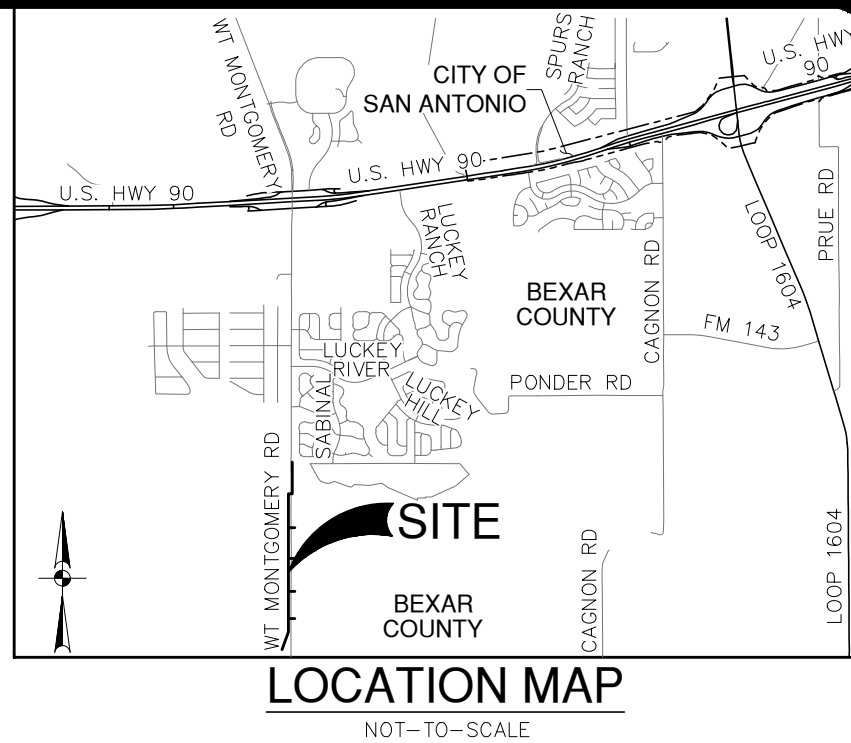
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(±3.38 ACRES)

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SWPPP LEGEND

PROJECT LIMITS	
EXISTING CONTOUR	
PROPOSED CONTOUR	
EXISTING 100-YR FLOODPLAIN (FEMA DFIRM)	
EFFECTIVE 100-YR FLOODPLAIN (LOMR CASE NO. 20-1399P)	
FLOW ARROW	
SILT FENCE (±6,272 LF)	
ROCK BERM (±120 LF)	
GRAVEL FILTER BAGS (9 EACH) (500FT MAX. SPACING)	
LIMITS OF DISTURBED AREA (±3.38 AC)	
STABILIZED CONSTRUCTION ENTRANCE/EXIT (FIELD LOCATE)	
CONSTRUCTION EQUIPMENT, VEHICLE & MATERIALS STORAGE AREA (FIELD LOCATE)	
CONCRETE TRUCK WASH-OUT PIT (FIELD LOCATE)	
AREA TO BE REVEGETATED PER TPDES PERMIT REQUIREMENTS	

GENERAL NOTES

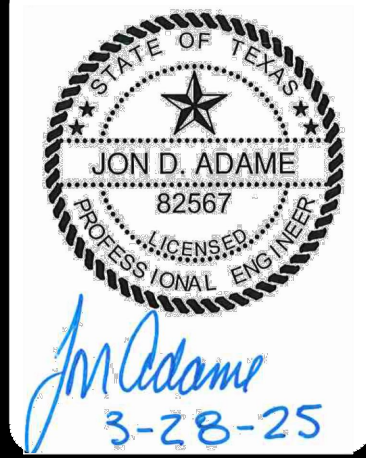
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- FOR A COMPLETE LISTING OF TEMPORARY STORM WATER POLLUTION PREVENTION CONTROLS REFER TO THE TPDES STORM WATER POLLUTION PREVENTION PLAN.
- STORM WATER POLLUTION PREVENTION STRUCTURES SHOULD BE CONSTRUCTED WITHIN THE SITE BOUNDARIES. SOME OF THESE FEATURES MAY BE SHOWN OUTSIDE THE SITE BOUNDARIES ON THIS PLAN FOR VISUAL CLARITY.
- 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.
- BEST MANAGEMENT PRACTICES MAY BE INSTALLED IN STAGES TO COINCIDE WITH THE DISTURBANCE OF UPGRADE AREAS.
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- 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.
- 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.
- 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 PLAN.
- PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL COORDINATE PLACEMENT OF TEMPORARY BEST MANAGEMENT PRACTICES WITHIN TxDOT RIGHT-OF-WAY WITH TxDOT.
- GPS ENERGY WILL FUNCTION AS A SECONDARY OPERATOR ON THIS PROJECT AND WILL BE INSTALLING ELECTRIC UTILITIES FOR ON-SITE CONSTRUCTION AND OFF-SITE FEED TO THE PROJECT.
- CONTRACTOR SHALL STAKE THE FLOODPLAIN BEFORE START OF CONSTRUCTION.

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

NO.	REVISION



PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1028860

BLOSSOM RANCH UNIT 1A OFF-SITE WATER 16" OVERSIZE (12" REQUIRED) WATER MAIN EXTENSION
SAN ANTONIO, TEXAS

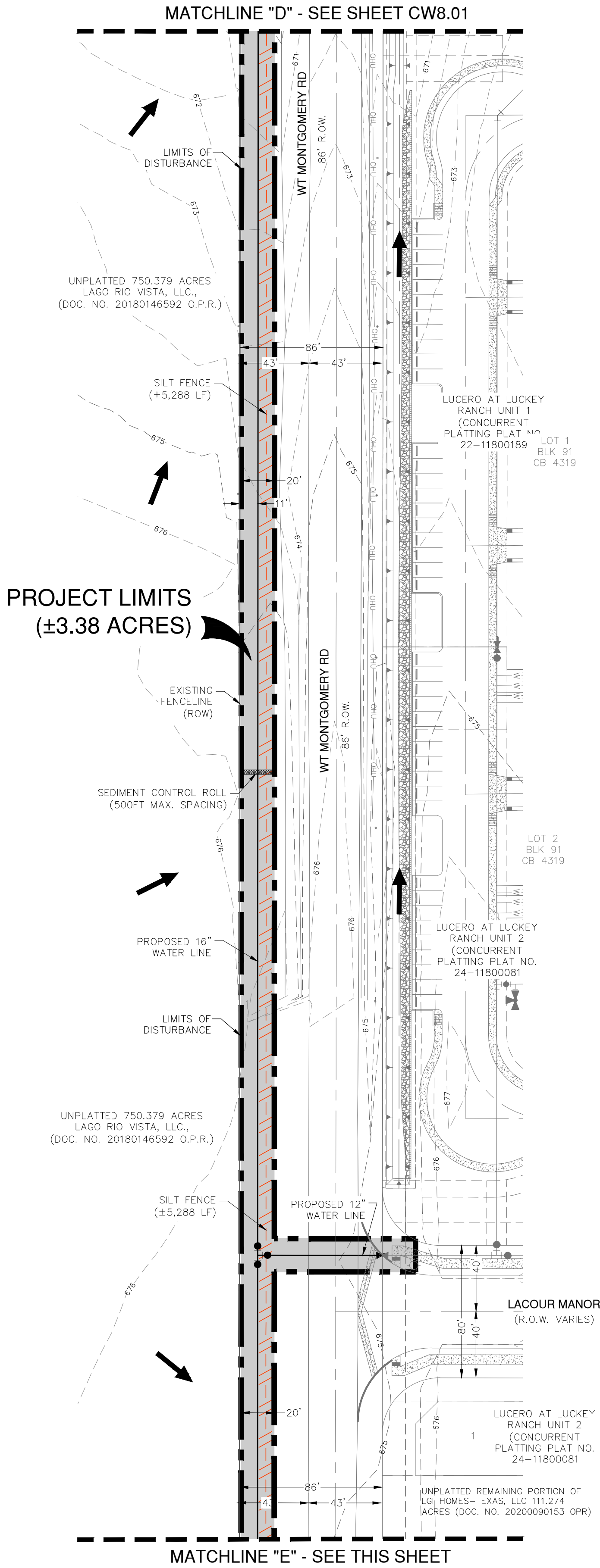
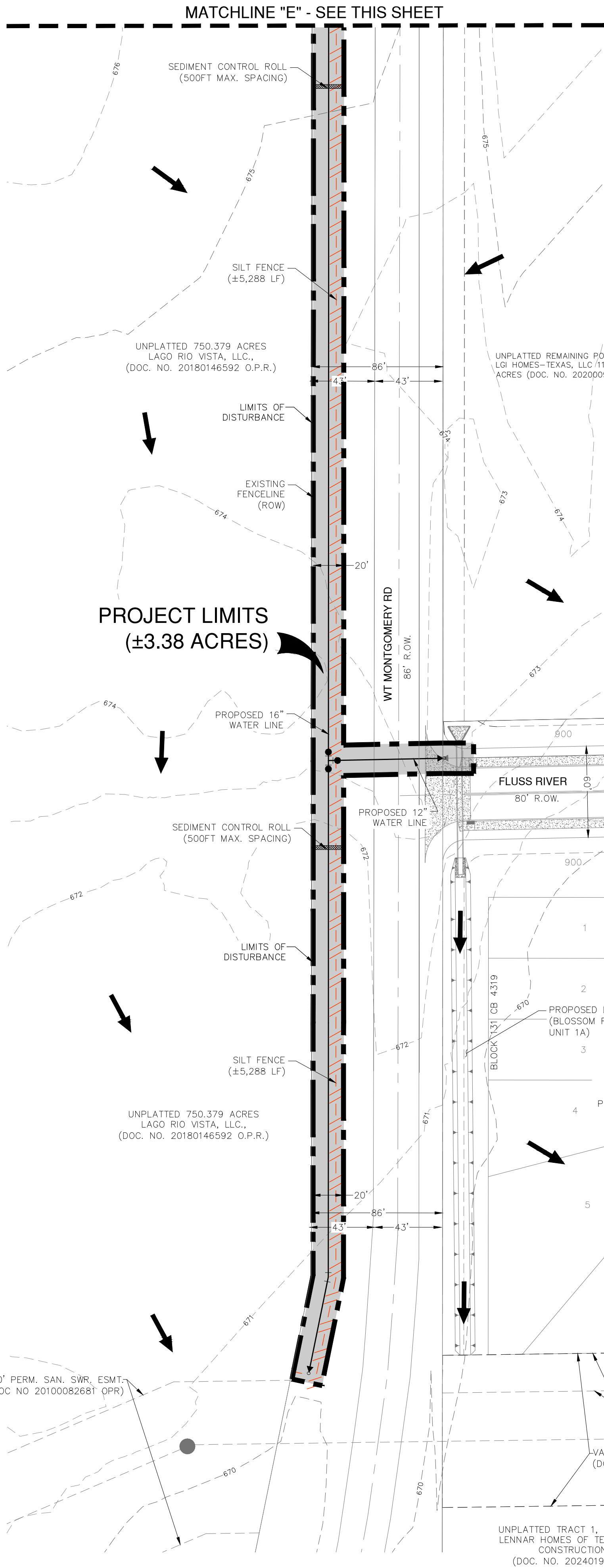
STORM WATER POLLUTION PREVENTION PLAN

SWP3 MODIFICATIONS		
DATE	SIGNATURE	DESCRIPTION

PLAT NO.	-
JOB NO.	13055-23
DATE	NOVEMBER 2024
DESIGNER	CR
CHECKED	JA
DRAWN	AG
SHEET	CW8.01

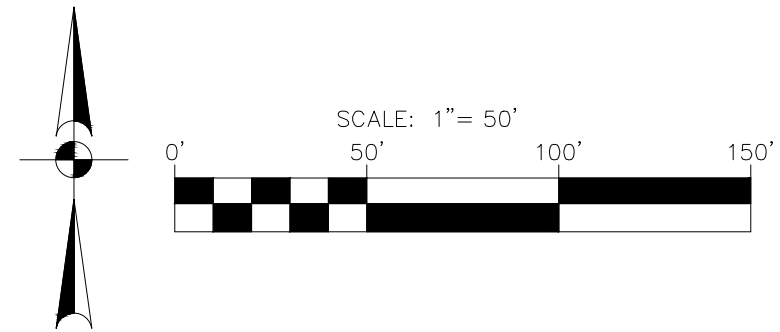
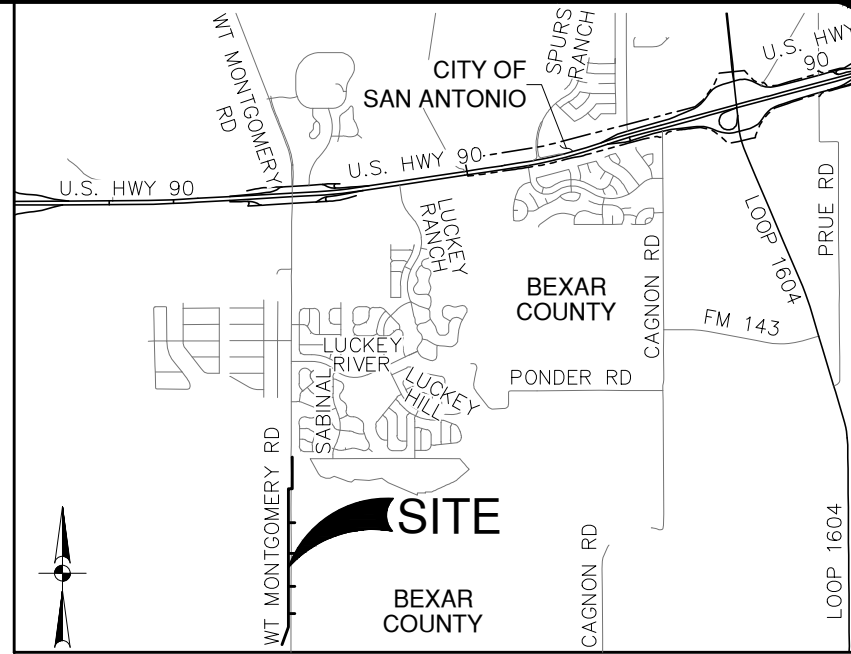
Date: Nov 26, 2025 11:59am User ID: 4Gibbons
File Path: \\1164140\Users\Gibbons\1616440\Blossom Ranch Unit 1A Off-Site Water Main Extension\SWPPP-1116440.dwg

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CAUTION !!!

EXISTING UTILITIES ARE WITHIN THE LIMITS OF CONSTRUCTION. CONTRACTORS SHALL EXERCISE EXTRA CARE IN DIGGING ANY TRENCH OF 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.



SWPPP LEGEND

PROJECT LIMITS	
EXISTING CONTOUR	---976---
PROPOSED CONTOUR	---970---
EXISTING 100-YR FLOODPLAIN (FEMA DFIRM)	---
EFFECTIVE 100-YR FLOODPLAIN (LOMR CASE NO. 20-1399P)	---
FLOW ARROW	→
SILT FENCE (±6,272 LF)	--- --- --- --- --- ---
ROCK BERM (±120 LF)	--- --- --- --- --- ---
GRAVEL FILTER BAGS (9 EACH) (500FT MAX. SPACING)	--- --- --- --- --- ---
LIMITS OF DISTURBED AREA (±3.38 AC)	---
STABILIZED CONSTRUCTION ENTRANCE/EXIT (FIELD LOCATE)	---
CONSTRUCTION EQUIPMENT, VEHICLE & MATERIALS STORAGE AREA (FIELD LOCATE)	---
CONCRETE TRUCK WASH-OUT PIT (FIELD LOCATE)	---
AREA TO BE REVEGETATED PER TPDES PERMIT REQUIREMENTS	---

GENERAL NOTES

- DO NOT DISTURB VEGETATED AREAS (TREES, GRASS, WEEDS, BRUSH, ETC.) ANY MORE THAN NECESSARY FOR CONSTRUCTION.
- CONSTRUCTION ENTRANCE/EXIT LOCATION, CONCRETE WASH-OUT PIT, AND CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD TO BE DETERMINED IN THE FIELD.
- 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.
- RESTRICT ENTRY/EXIT TO THE PROJECT SITE TO DESIGNATED LOCATIONS BY USE OF ADEQUATE FENCING, IF NECESSARY.
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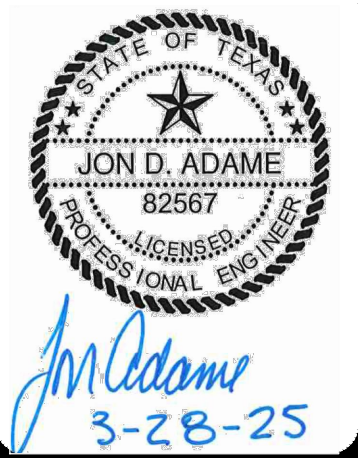
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EXHIBIT 3

SWP3 MODIFICATIONS		
DATE	SIGNATURE	DESCRIPTION

DATE	
NO.	
REVISION	



PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

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SAN ANTONIO, TEXAS

STORM WATER POLLUTION PREVENTION PLAN

PLAT NO.	-
JOB NO.	13055-23
DATE	NOVEMBER 2024
DESIGNER	CR
CHECKED	JA
DRAWN	AG
SHEET	CW8.02