

City of Georgetown Williamson County, Texas

Project Name:	Parmer Ranch		
Drawing Path:	Drawings\Plans		
Xref DWG FILE.			

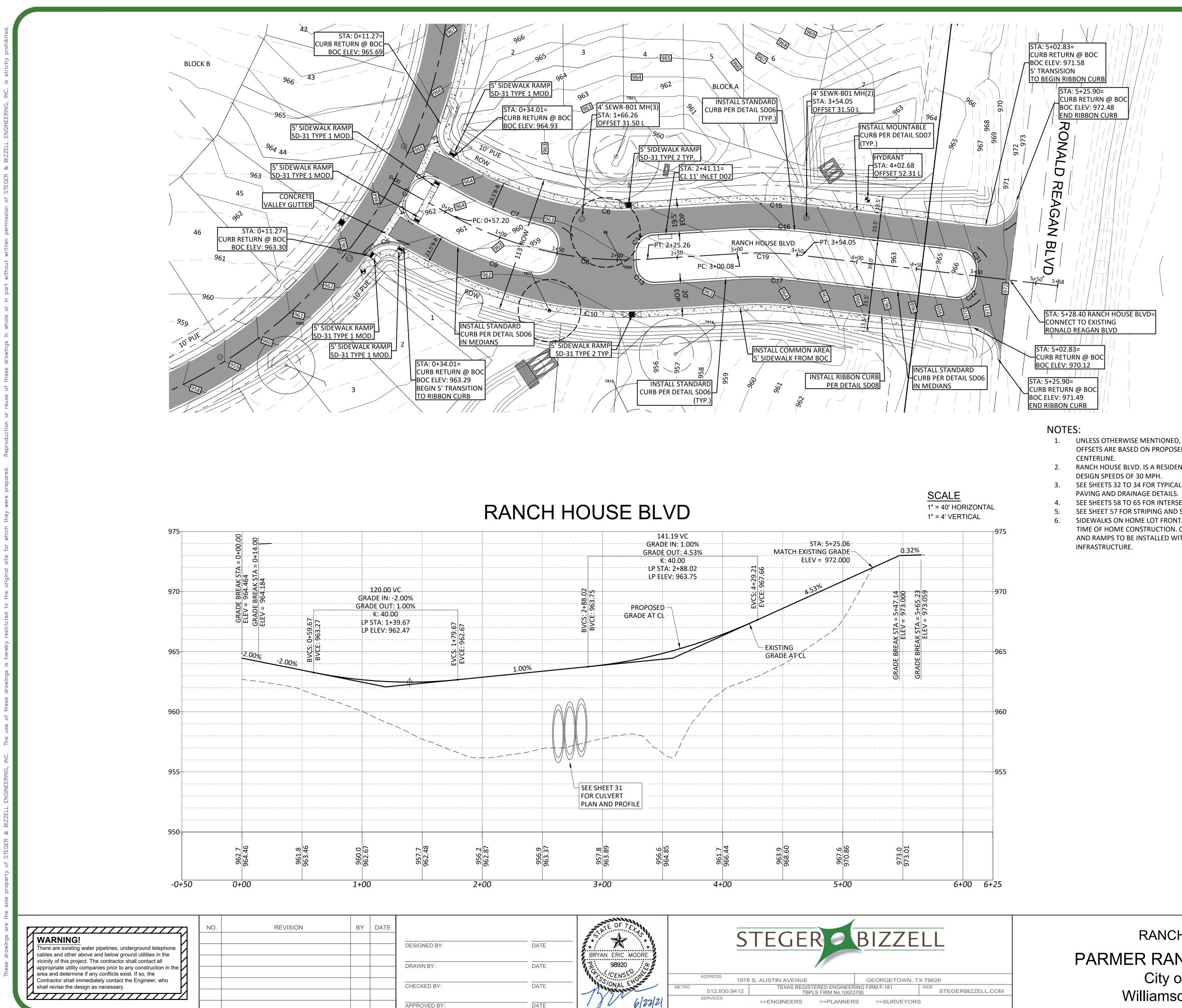
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2021-3-CON

Project Path

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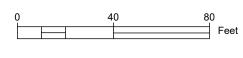


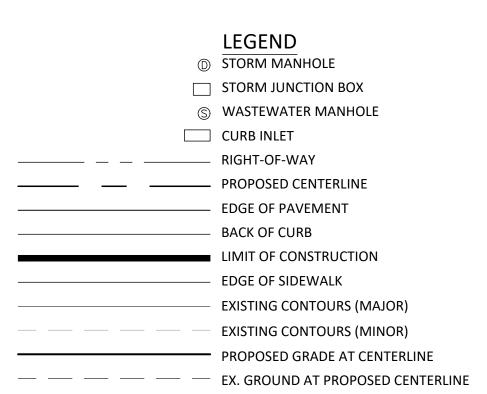
File Name: P:\22000-22999\22223 Joe Owen NW WMCO MUD#2\01-PHASE 03\CAD\Plans\21 RANCH HOUSE BLVD.dwg By: Bryan Moore Date: 6/22/2021 11:26 AM

APPROVED BY

DATE







### UNLESS OTHERWISE MENTIONED, ALL STATIONING AND OFFSETS ARE BASED ON PROPOSED RANCHOUSE BLVD.

RANCH HOUSE BLVD. IS A RESIDENTIAL COLLECTOR WITH A

SEE SHEETS 32 TO 34 FOR TYPICAL SECTION DETAILS AND FOR

SEE SHEETS 58 TO 65 FOR INTERSECTION DETAILS.

SEE SHEET 57 FOR STRIPING AND SIGNAGE DETAILS. SIDEWALKS ON HOME LOT FRONTAGES TO BE INSTALLED AT

TIME OF HOME CONSTRUCTION. COMMON AREA SIDEWALKS AND RAMPS TO BE INSTALLED WITH STREET

Curve Table					
Curve #	Radius	Arc Length	Chord Length	Chord Direction	
C1	23.000	32.657	29.98	N87° 22' 37.32"E	
C2	15.000	23.718	21.32	S01° 24' 05.98"W	
C3	416.500	8.687	8.69	S43° 17' 58.57"E	
C4	15.000	23.718	21.32	S88° 00' 03.01"E	
C5	23.000	32.657	29.98	S06° 01' 25.54"W	
C6	257.000	143.967	142.09	N30° 39' 08.27"E	
С7	280.500	71.629	71.43	S39° 23' 05.39"W	
С9	319.500	82.084	81.86	N39° 20' 25.29"E	
C10	343.000	192.143	189.64	N30° 39' 08.27"E	
C13	15.032	23.025	20.84	N60° 32' 30.24"E	
C14	15.030	22.107	20.17	S29° 27' 29.76"E	
C15	343.000	61.703	61.62	N19° 45' 27.71"E	
C16	319.500	57.475	57.40	S19° 45' 27.71"W	
C17	280.500	50.459	50.39	N19° 45' 27.71"E	
C21	15.031	22.566	20.51	S69° 54' 39.53"W	
C22	15.031	22.567	20.51	N20° 05' 20.47"W	

Curve Table: Alignments					
Curve #	Radius	Arc Length	Chord Length	Chord Direction	
C19	300.000	53.967	53.89	N19° 45' 27.71"E	
C8	300.000	168.055	165.87	N30° 39' 08.27"E	

RANCH HOUSE BLVD PARMER RANCH PHASE 2, 3, & 4 City of Georgetown Williamson County, Texas

Project Number: 22223/01 SCALE: Project Path: Project Name: Drawing Path:

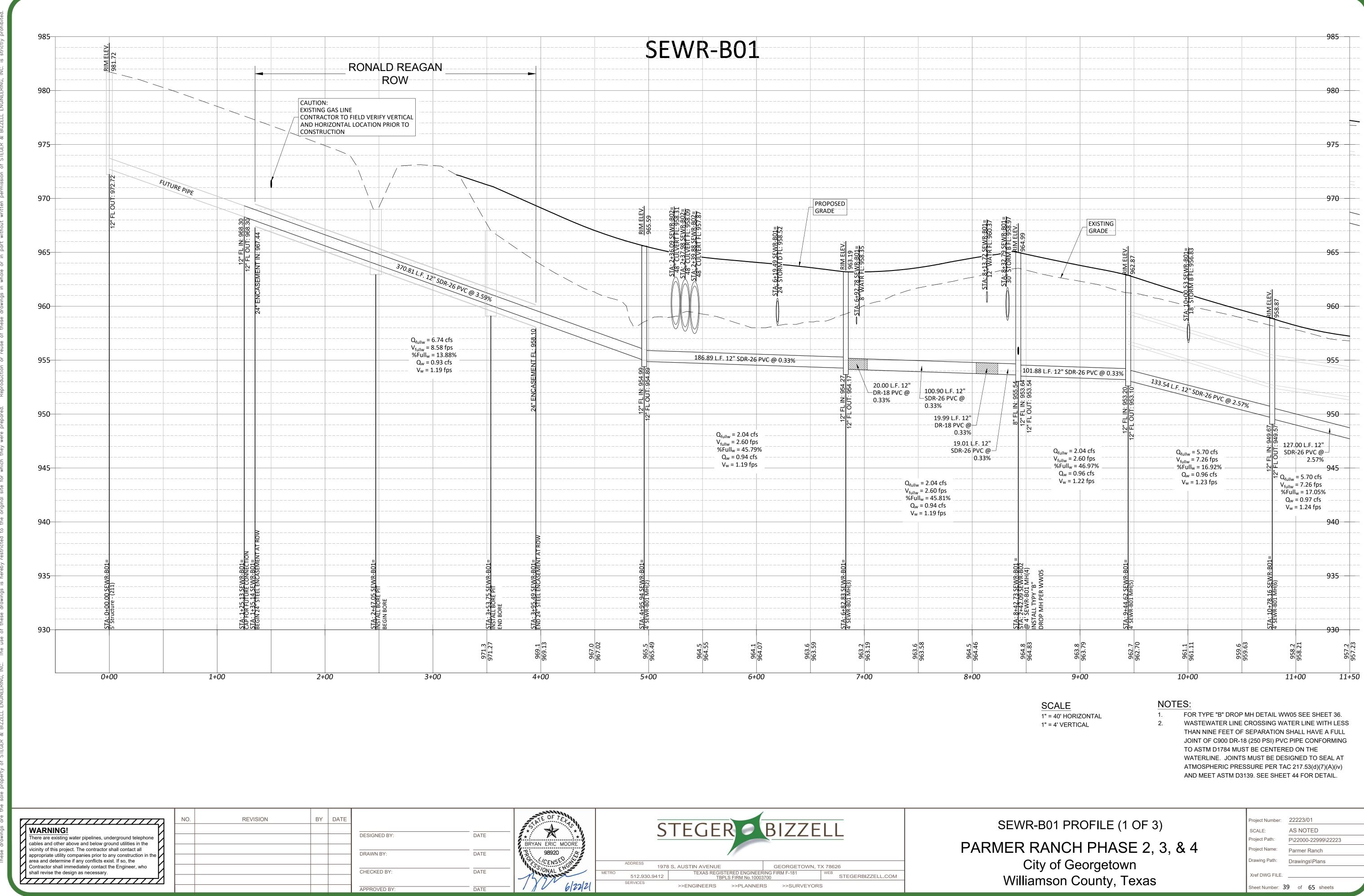
AS NOTED P\22000-22999\22223 Parmer Ranch Drawings\Plans

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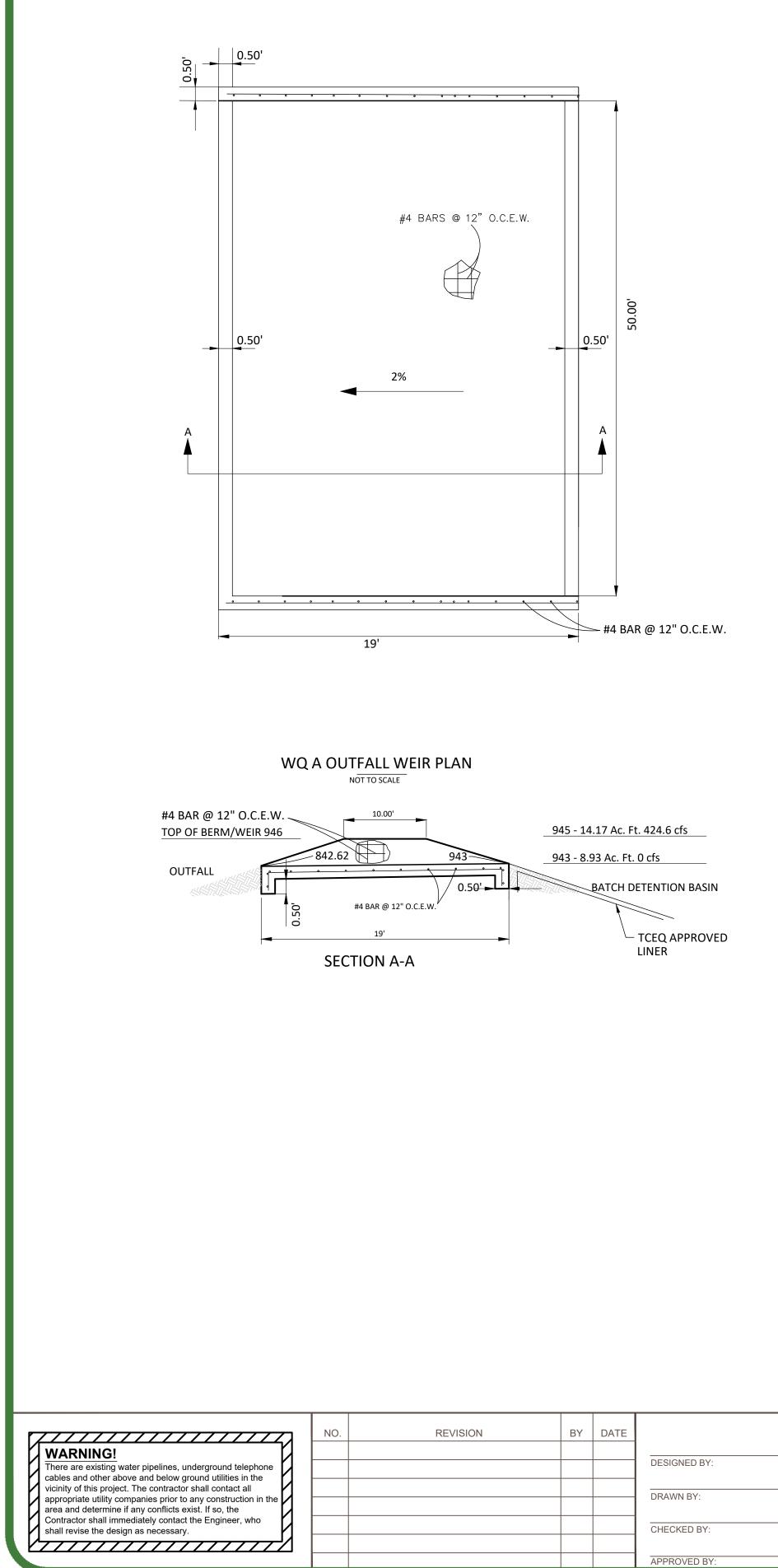
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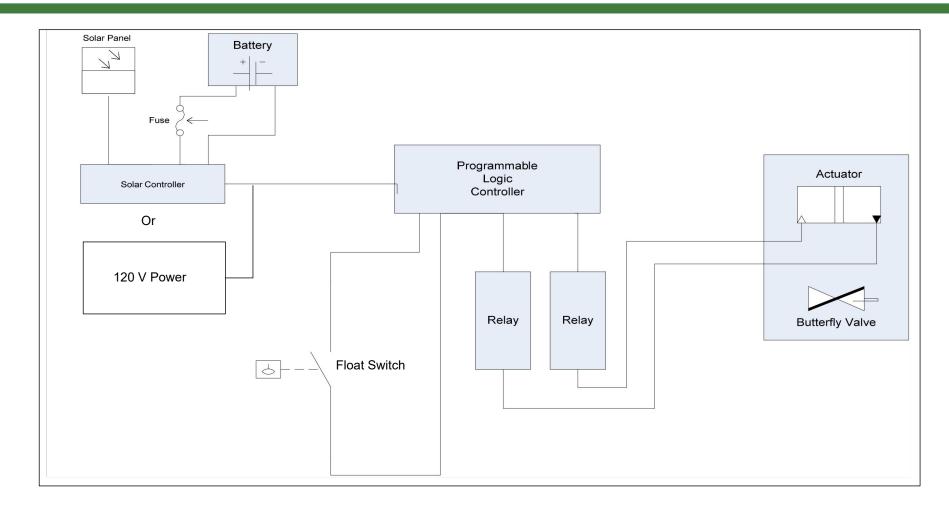


File Name: P:\22000-22999\22223 Joe Owen NW WMCO MUD#2\01-PHASE 03\CAD\Plans\39 SEWR-B01 PROFILE (1 OF 3).dwg By: Bryan Moore Date: 6/22/2021 11:26 AM

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# SPILLWAY STRUCTURE FOR BATCH DETENTION POND B



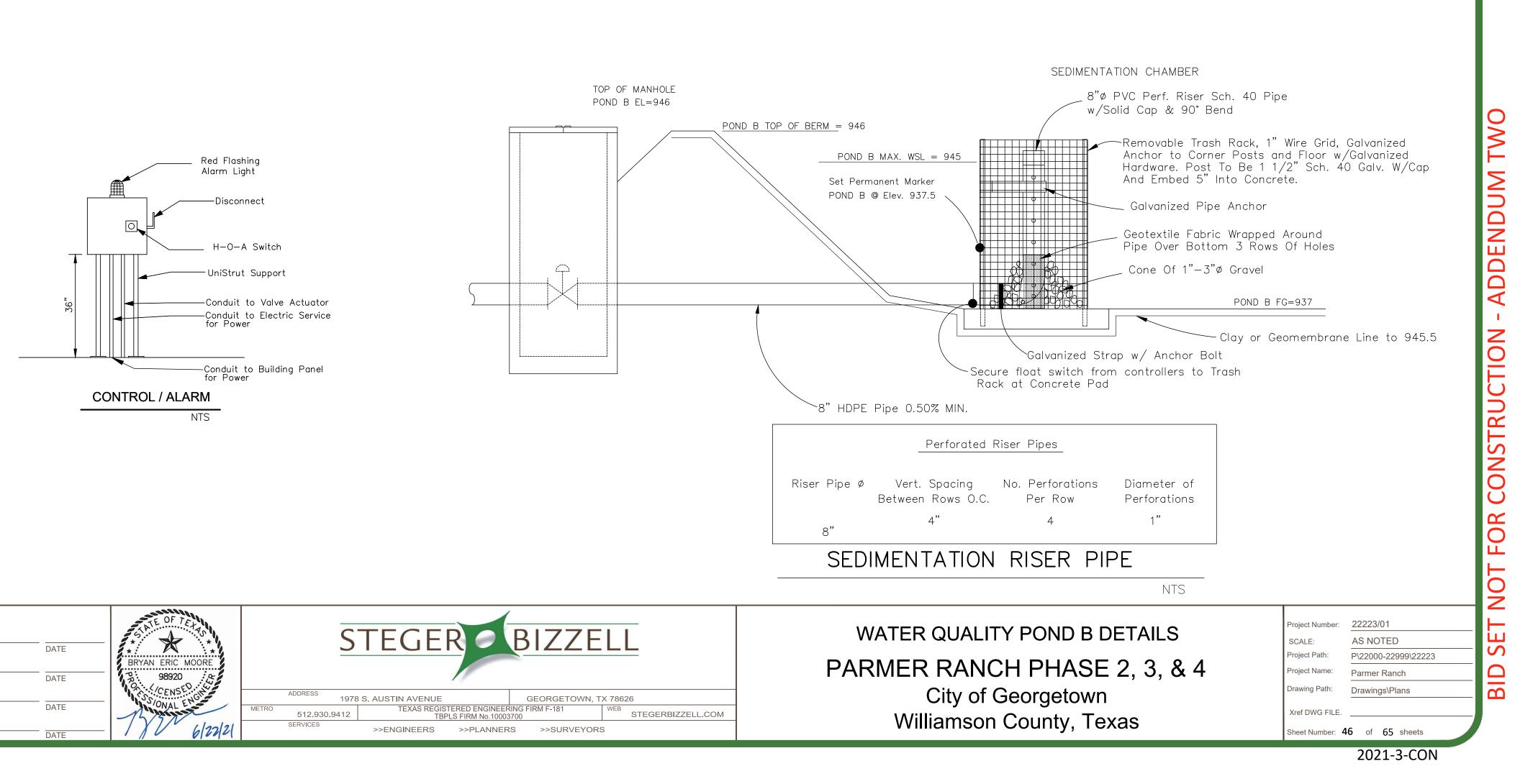


# CONTROLLER CIRCUIT BOX DIAGRAM

## BATCH POND CONTROLLER NOTES:

NTS

- 1. Submittals The contractor shall provide the engineer with batch pond controller submittals for review and approval prior to construction. Submittals shall include: power source, battery backup, logic controller, lockable parts enclosure, float, valve, actuator, relay, alarm system, signage, etc. Total wattage of power consumption and w-hours of actuator, controller and relay shall be provided. A copy of the approved submittals shall be provided to TCEQ with the engineers certification of project completion for inclusion in the TCEQ project file .
- 2. Controller The controller consists of a level sensor in the detention basin, a valve (with a default closed position), an actuator, and the associated control. The controller detects water filling the basin from the level sensor and initiates a 12-hour detention time. At the end of the required detention time, the controller opens the valve and drains into the second basin. Subsequent rainfall events that occur prior to the basin draining should cause the valve to remain open and allow the additional stormwater runoff to pass through the basin. Once the basin is drained the controller closes the valve. The drawdown time of the basin should not exceed 48 hours for a single storm event after the 12 hour required detention time. All cables should be protected by conduit and buried to prevent damage during maintenance activities. Information on the design and configuration of an existing system, including the system schematic, can be viewed at the Austin or San Antonio Regional Offices.
- 3. Logic Controller The controller should be programmed to begin draining stormwater runoff from the basin 12 hours after the first stormwater runoff is sensed. The system should be programmed to have the valve remain open for two hours after the level sensor indicates the basin is empty to allow any remaining shallow water to be discharged. The system should provide the following: a test sequence, be able to deal with low battery/power outages, an on/off/reset switch, manual open/close switches (maintenance/spill), clearly visible external indicator to indicate a cycle is in progress without opening the box, and ability to exercise the valve to prevent seizing.
- 4. Power The pond control system controller and actuator shall be 120 volt powdered or 120 volt solar powered with backup battery power to respond to a loss of power in the middle of a cycle.
- 5. Parts Enclosure & Alarm System The parts enclosure shall be lockable. An alarm system clearly visible to indicate system malfunction, with phone numbers of the owner and TCEQ Region 11 office shall be provided.
- 6. Temperature/Weather The system shall be be capable of operation from 0 to 130 degrees Fahrenheit and from 10 to 90% humidity. 7. Reliability - The system shall have a minimum reliability of 40,000 hours (4.6 years).



### LINER DATA

IMPERMEABLE LINERS MAY BE CLAY, CONCRETE OR GEOMEMBRANE.

CLAY LINERS SHOULD MEET THE SPECIFICATIONS AS SHOWN BELOW AND HAVE A MINIMUM THICKNESS OF 12 INCHES.

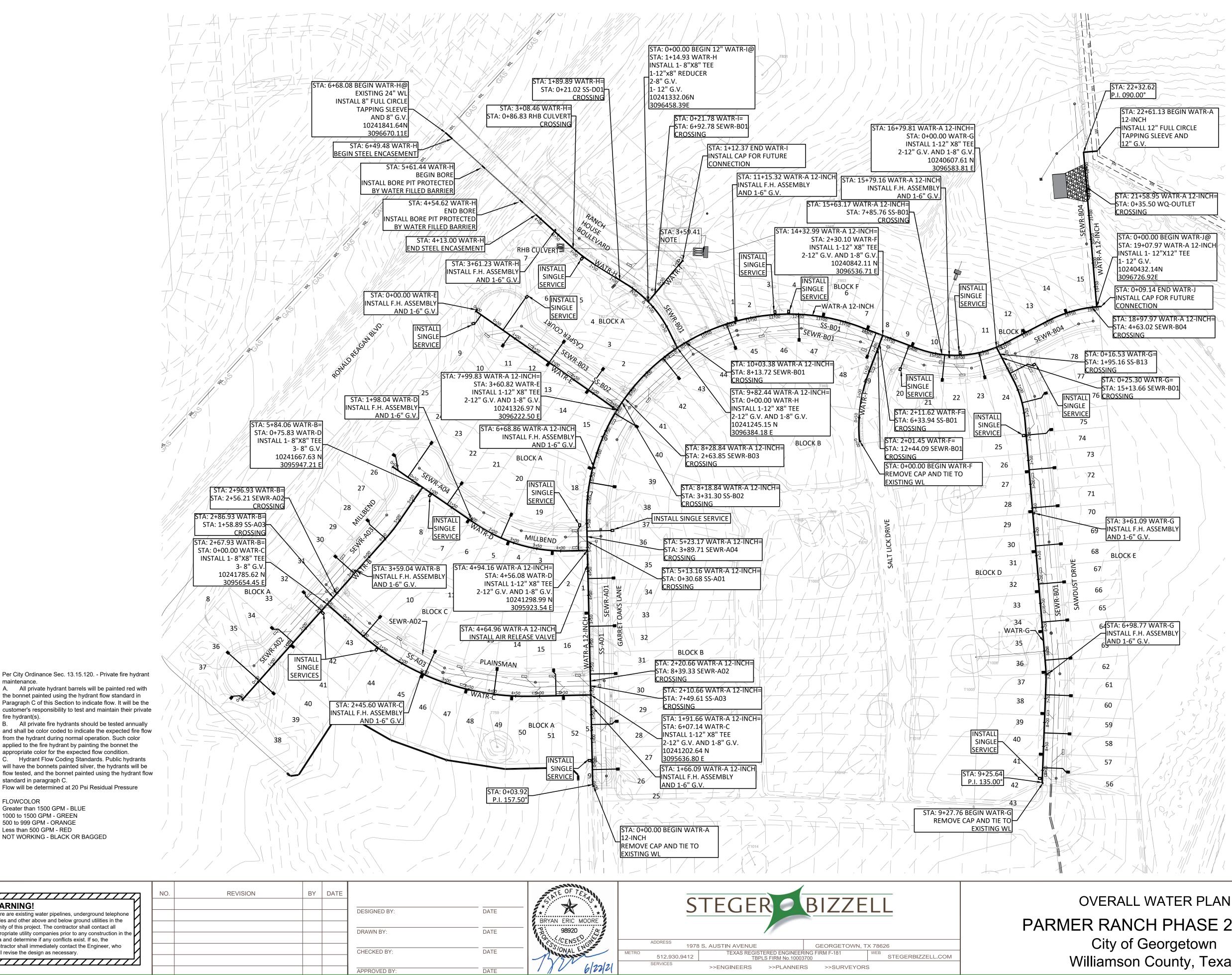
### CLAY LINER SPECIFICATIONS

CLAY LIN	(MIN. THIC	KNESS = 12")		
PROPERTY	PROPERTY TEST METHOD		SPECIFICATION	
PERMEABILITY	ASTM D-2434	Cm/Sec	1X10 <sup>(-6)</sup>	
PLASTICITY INDEX OF CLAY	ASTM D-423 & D-424	%	NOT LESS THAN 15	
LIQUID LIMIT OF CLAY	ASTM D-2216	%	NOT LESS THAN 30	
CLAY PARTICLES PASSING	ASTM D-422	%	NOT LESS THAN 30	
CLAY COMPACTION	ASTM D-2216	%	95% OF STANDARD PROCTOR DENSITY AT OR ABOVE	
			OPTIMUM MOISTURE CONTENT	

IF A GEOMEMBRANE IS USED IT SHALL HAVE A MINIMUM THICKNESS OF (30) THIRTY MILS AND BE ULTRAVIOLET RESISTANT. CONTRACTOR TO USE A GeoCHEM LLDPE 3000B GEOMEMBRANE OR APPROVED EQUAL. THE GEOTEXTILE FABRIC (FOR PROTECTION OF GEOMEMBRANE) SHOULD BE NONWOVEN GEOTEXTILE FABRIC AND MEET THE SPECIFICATIONS AS SHOWN BELOW. SUITABLE GEOTEXTILE FABRIC SHOULD BE PLACED ON THE TOP AND BOTTOM OF THE MEMBRANE FOR PUNCTURE PROTECTION AND THE LINERS COVERED WITH A MINIMUM OF 6 INCHES OF COMPACTED TOPSOIL. THE TOPSOIL SHOULD BE STABILIZED WITH APPROPRIATE VEGETATION. SEE SECTION G7 -"LOAMING, HYDROSEEDING AND PERMANENT EROSION CONTROL" SPECIFICATIONS FOR TOPSOIL AND SEEDING REQUIREMENTS. REFER TO APPROVED WPAP FOR ADDITIONAL INSTALLATION, QA/QC AND MAINTENANCE REQUIREMENTS.

### GEOTEXTILE FABRIC DATA

GEOTEXTILE FABRIC DATA					
PROPERTY	TEST METHOD	UNIT	SPECIFICATION		
MATERIAL NON-WC	MATERIAL NON-WOVEN GEOTEXTILE FABRIC				
UNIT WEIGHT		OZ./SQ. YD.	8 (MIN.)		
FILTRATION WEIGHT		IN./SEC.	0.08 (MIN)		
PUNCTURE STRENGTH	ASTM D-751 (MODIFIEI	)LB.	125 (MIN)		
MULLEN BURST STRENGTH	ASTM D-751	P.S.I.	400 (MIN.)		
TENSILE STRENGTH	ASTM D-1682	LB.	200 (MIN.)		
EQUIV. OPENING SIZE	U.S. STANDARD SIEVE	NO.	80 (MIN.)		



maintenance. A. All private hydrant barrels will be painted red with

the bonnet painted using the hydrant flow standard in Paragraph C of this Section to indicate flow. It will be the customer's responsibility to test and maintain their private fire hydrant(s).

and shall be color coded to indicate the expected fire flow from the hydrant during normal operation. Such color applied to the fire hydrant by painting the bonnet the appropriate color for the expected flow condition. C. Hydrant Flow Coding Standards. Public hydrants will have the bonnets painted silver, the hydrants will be

flow tested, and the bonnet painted using the hydrant flow standard in paragraph C. Flow will be determined at 20 Psi Residual Pressure

FLOWCOLOR

Greater than 1500 GPM - BLUE 1000 to 1500 GPM - GREEN 500 to 999 GPM - ORANGE

Less than 500 GPM - RED NOT WORKING - BLACK OR BAGGED

	NO.	REVISION	BY	DATE		
WARNING! There are existing water pipelines, underground telephone					DESIGNED BY:	-
cables and other above and below ground utilities in the vicinity of this project. The contractor shall contact all appropriate utility companies prior to any construction in the area and determine if any conflicts exist. If so, the					DRAWN BY:	-
Contractor shall immediately contact the Engineer, who shall revise the design as necessary.					CHECKED BY:	[
					APPROVED BY:	[

File Name: P:\22000-22999\22223 Joe Owen NW WMCO MUD#2\01-PHASE 03\CAD\Plans\50 OVERALL WATER PLAN.dwg By: Bryan Moore Date: 6/22/2021 11:29 AM

PARMER RANCH PHASE 2, 3, & 4 City of Georgetown Williamson County, Texas

Project Number: 22223/01 SCALE: Project Path: Project Name: Drawing Path:

AS NOTED

P\22000-22999\22223 Parmer Ranch Drawings\Plans

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### SINGLE SEWER SERVICE \* SEE DETAIL "W01A" FOR TYPICAL UTILITY ASSIGNMENTS NOTES: INDIVIDUAL PRESSURE REDUCING VALVES (PRV) REQUIRED ON ALL LOTS WHERE STATIC PRESSURE IS GREATER THAN 80 PSI. AT THE CONCLUSION OF CONSTRUCTION, FIRE HYDRANTS SHALL BE FLOW TESTED AND COLOR CODED IN ACCORDANCE TO CITY'S STANDARDS, AND RESULTS SHALL BE EMAILED TO THE FIRE DEPARTMENT. IFC 507.5 FIRE HYDRANTS SYSTEMS. 3. CAUTION, IF PRESSURE REDUCING VALVES WERE INSTALLED IN THIS PHASING THEY MUST BE SET PRIOR TO FIRE HYDRANT FLOW TESTING. **PIPE MATERIAL NOTES:** 2. ALL WATER LINE SHALL BE 8" C900 (150 PSI) PVC UNLESS OTHERWISE NOTED. 3. WATER VALVES SHALL NOT BE INSTALLED IN SIDEWALKS, RAMPS OR CURBS. 3. ALL JOINTS WHERE REQUIRED SHALL BE RESTRAINED. **CITY OF GEORGETOWN GENERAL NOTES** 1. These construction plans were prepared, sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore based on the engineer's concurrence of compliance, the construction plans for construction of the proposed project are hereby approved subject to the standard Construction Specifications and Details Manual and all other applicable City, State and Federal Requirements and Codes. 2. This project is subject to all City Standard Specifications and Details in effect at the time of submittal of the project to the City. The site construction plans shall meet all requirements of the approved 3. site plan. 4. Wastewater mains and service lines shall be SDR 26 PVC. Wastewater mains shall be installed without horizontal or vertical bends. Maximum distance between wastewater manholes is 500 feet. Wastewater mains shall be low pressure air tested and mandrel tested by the contractor according to the City of Georgetown and TCEQ requirements. 8. Wastewater manholes shall be vacuum tested and coated by the contractor according to City of Georgetown and ICEQ requirements 9. Wastewater mains shall be camera tested by the contractor and submitted to the City on DVD format prior to paving the streets. 10. Private water system fire lines shall be tested by the contractor to 200 psi for 2 hours. 11. Private water system fire lines shall be ductile iron piping from the water main to the building sprinkler system, and 200 psi C900 PVC for all others. 12. Public water system mains shall be 150 psi C900 PVC and tested by the contractor at 150 psi for 4 hours. 13. All bends and changes in direction on water mains shall be restrained and thrust blocked 14. Long fire hydrant leads shall be restrained. 15. All water lines are to be bacteria tested by the contractor according to the City standards and specifications. 16. Water and Sewer main crossings shall meet all requirements of the TCEQ and the City. 17. Flexible base material for public streets shall be TXDOT Type A Grade 1. 18. Hot mix asphaltic concrete pavement shall be Type D unless otherwise specified and shall be a minimum of 2 inches thick on public streets and roadwavs 19. All sidewalk ramps are to be installed with the public infrastructure. 20. A maintenance bond is required to be submitted to the City prior to acceptance of the public improvements. This bond shall be established for

PROPOSED WATER LINE

EXISTING GATE VALVE

EXISTING FIRE HYDRANT

PROPOSED GATE VALVE

CURB INLET

PROPOSED FIRE HYDRANT

DOUBLE WATER SERVICE

SINGLE WATER SERVICE

DOUBLE SEWER SERVICE

LEGEND

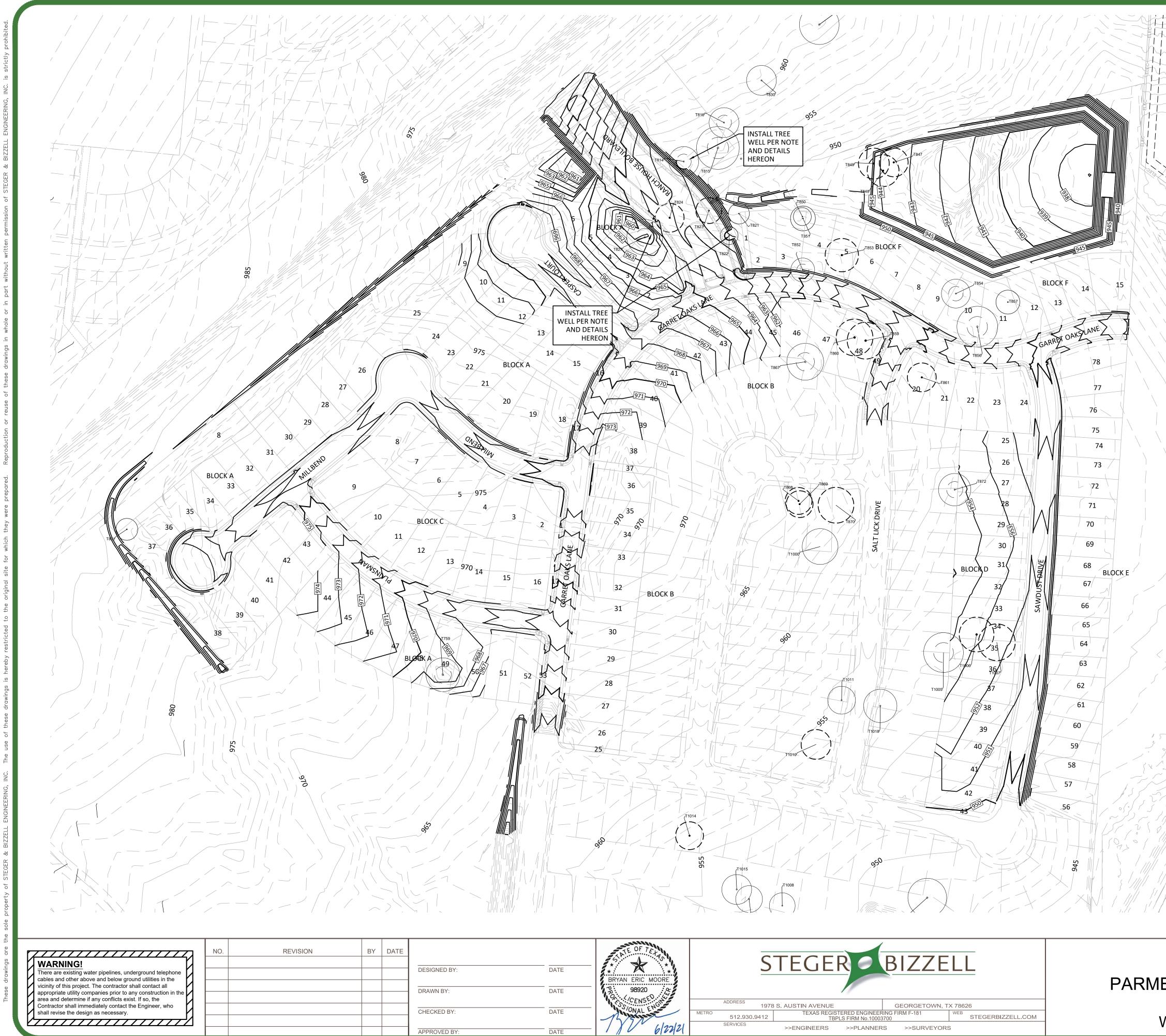
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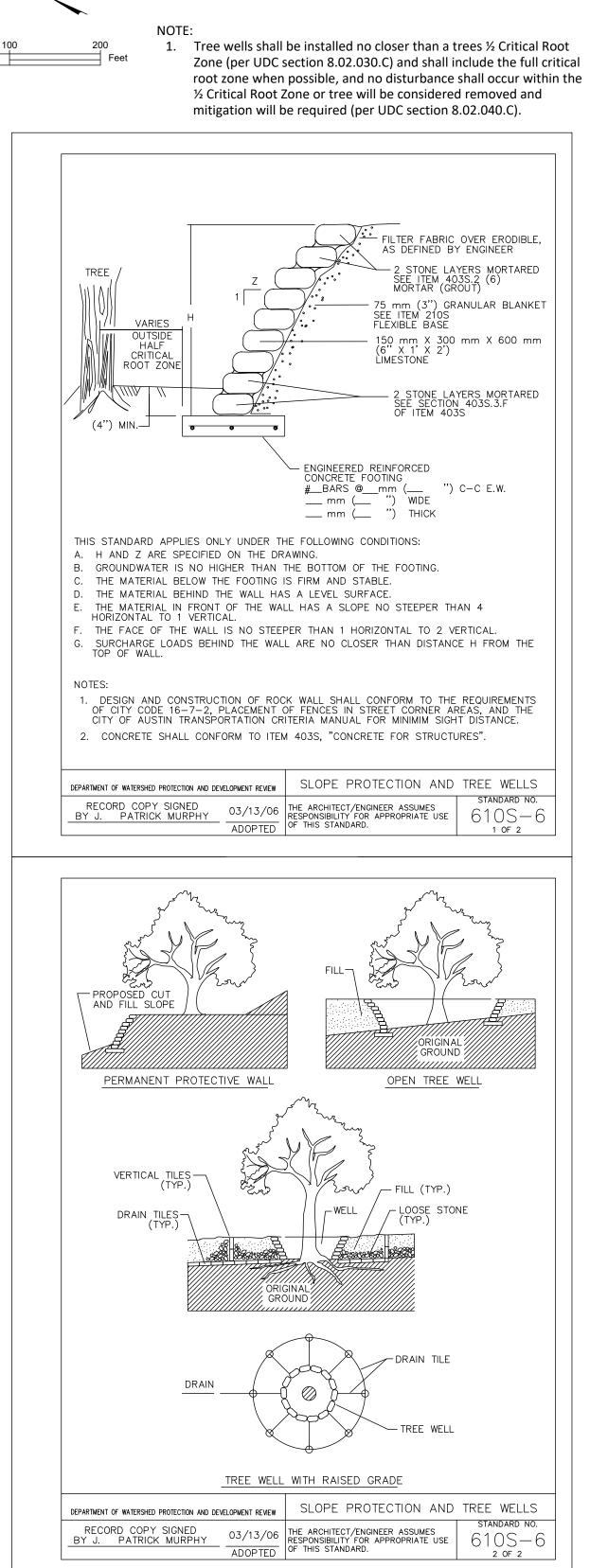
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- 2 years in the amount of 10% of the cost of the public improvements and shall follow the City format.
- 21. Record drawings of the public improvements shall be submitted to the City by the design engineer prior to acceptance of the project. These drawings shall be PDF (300 dpi).





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SCALE:

ADDENDUM

CONSTRUCTION

FOR

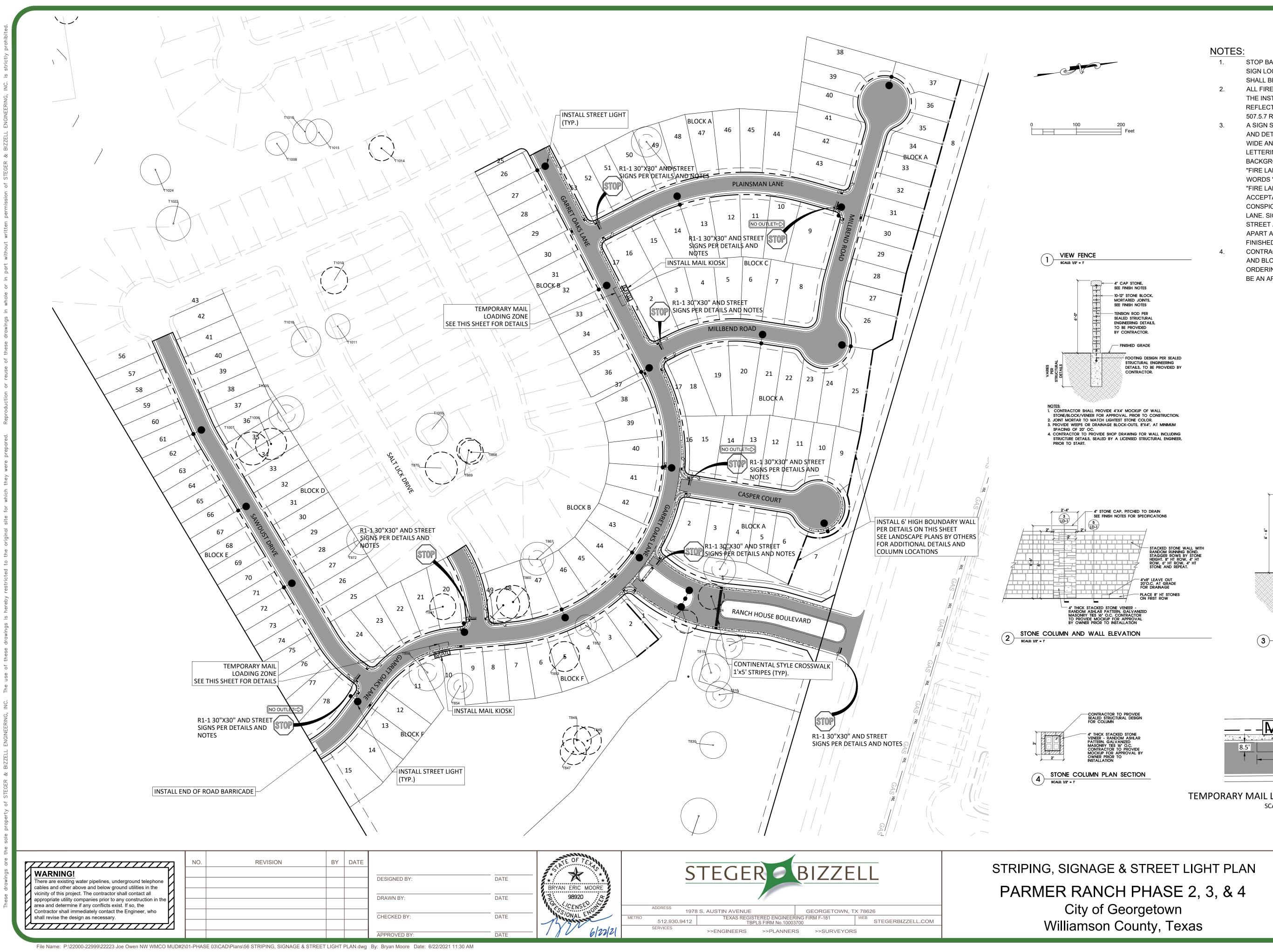
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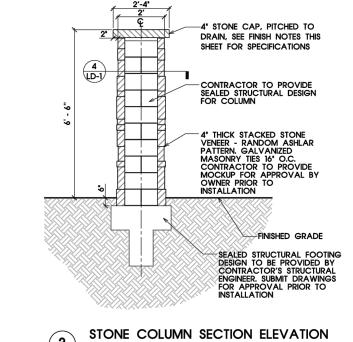
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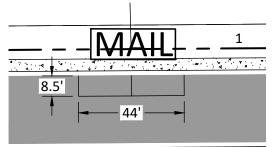
**GRADING PLAN** PARMER RANCH PHASE 2, 3, & 4 City of Georgetown Williamson County, Texas

2021-3-CON



- STOP BARS SHALL BE INSTALLED AT ALL STOP SIGN LOCATIONS. STREET NAME SIGNS PER SD25 SHALL BE INSTALLED WITH ALL STOP SIGNS.
- ALL FIRE HYDRANTS SHALL BE IDENTIFIED BY THE INSTALLATION OF APPROVED BLUE REFLECTIVE PAVEMENT MARKERS. 2012 IFC 507.5.7 REFLECTIVE PAVEMENT MARKERS
- A SIGN SHALL BE INSTALLED AS SHOWN HEREON AND DETAILED IN THE NEXT SHEET 12-INCHES WIDE AND 18-INCHES IN HEIGHT WITH RED LETTERING ON A WHITE REFLECTIVE BACKGROUND AND BORDER IN RED STATING "FIRE LANE - TOW AWAY ZONE", ALONG WITH THE WORDS "THIS SIDE OF THE STREET". THE WORDS "FIRE LANE" BY THEMSELVES ARE NOT ACCEPTABLE. SIGN SHALL BE MOUNTED CONSPICUOUSLY ALONG THE EDGE OF THE FIRE LANE. SIGN MUST BE AT THE BEGINNING OF A STREET AND SPACED NO MORE THAN 250 FEET APART AT A MINIMUM HEIGHT OF 7 FEET ABOVE FINISHED GRADE.
- CONTRACTOR SHALL VERIFY ALL STREET NAMES AND BLOCK NUMBERS WITH OWNER PRIOR TO ORDERING SIGNS. RANCH HOUSE BLVD MAY NOT BE AN APPROVED STREET NAME





SCALE: 1/2" = 1'

TEMPORARY MAIL LOADING ZONE DETAIL (TYP.) SCALE: 1" = 40'

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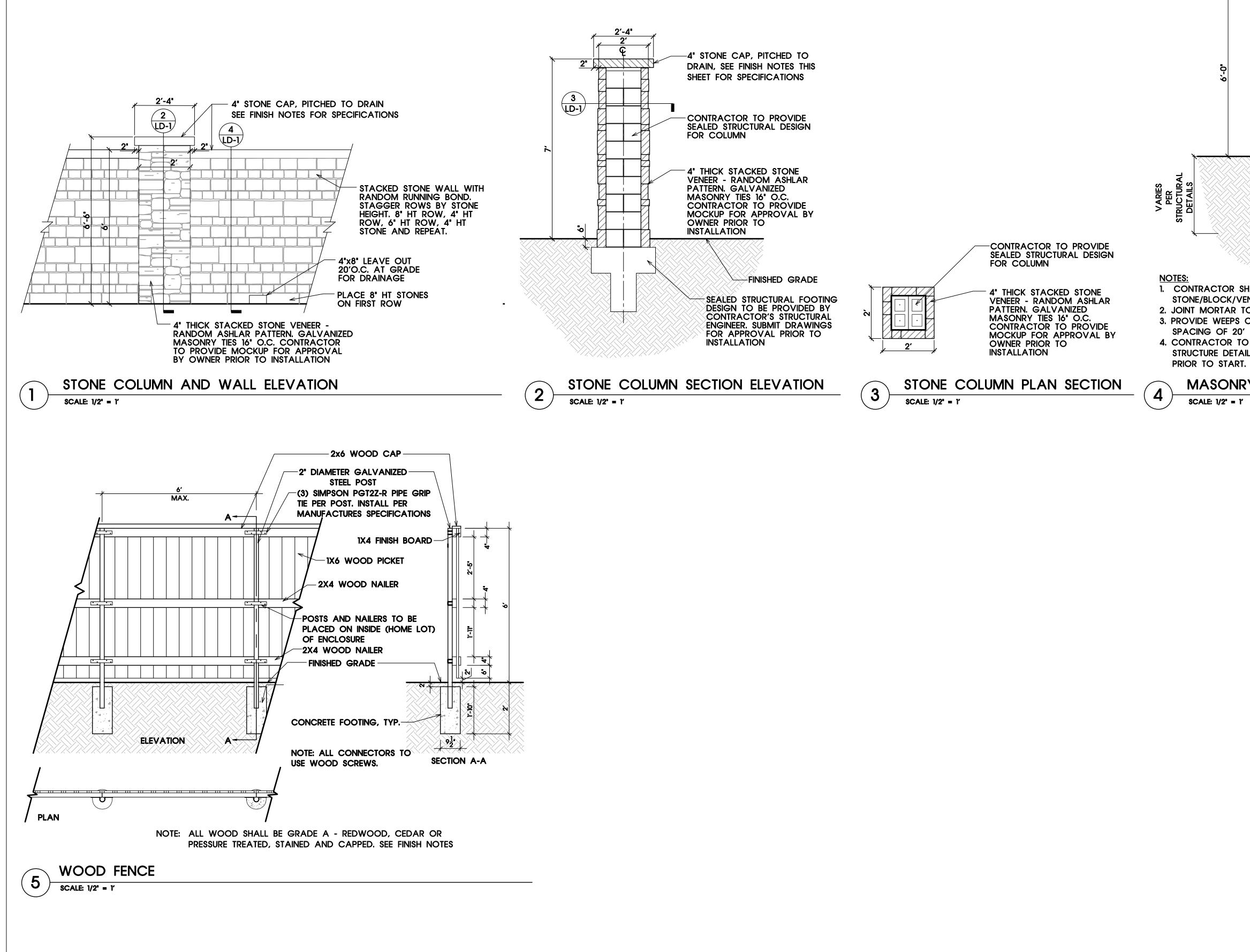
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	T: 972-866-0303
	PARMER RANCH PHASE 2-4 LANDSCAPE PLAN GEORGETOWN, TEXAS
FENCE & COLUMN NOTE         • ALL FENCE LOCATIONS SHOWN ARE GRAPHIC REPRESENTATIONS ONLY. FENCE SHALL BE LOCATED ON THE PROPERTY LINE AND HOME LOT LINES. FENCE LOCATION BY OWNER AND/OR LANDSCAPE ARCHITECT.         LEGEND         MASONRY WALL (4/LD-1)       1681 LF         WOOD FENCE (5/LD-1)       1449 LF         O       STONE COLUMN (2/LD-1)       20 EA	Drawing File Name         C:\Users\ndedear\Documents\Desktop Things\File         Transfer\_Ph2-4         Landscaping\Cadfiles\LA\Sheets\FP-1.dwg         Issued:         1.         2.         3.         4.         5.         Revisions:         1.         2.         3.         4.         5.         Issue Date:         06/18/2021         Drawn By: ND         Reviewed By: CM         Project No.         140092-PARP
Full Size Scale: $f = 100'$ 0  50  100  200  North 0  50  100  200  North The Location of Existing UNDERGROUND UTILITIES ARE Shown in an Approximate Way ONLY. The CONTRACTOR Shown in An Approximate Way ONLY. The CONTRACTOR	140092-PARP         FENCING PLAN         Sheet No.         FP-1         The reproduction, copying or other use of this drawing without the written consent of SEC Planning, LLC is prohibited.         © 2021       SEC Planning, LLC



4' CAP STONE, SEE FINISH NOTES 10-12' STONE BLOCK, MORTARED JOINTS, SEE FINISH NOTES TENSION ROD PER SEALED STRUCTURAL ENGINEERING DETAILS, TO BE PROVIDED BY CONTRACTOR. FINISHED GRADE FOOTING DESIGN PER SEALED STRUCTURAL ENGINEERING DETAILS, TO BE PROVIDED BY	<image/> <section-header><section-header><text><text><text><text><text></text></text></text></text></text></section-header></section-header>
ALL PROVIDE 4'X4' MOCKUP OF WALL NEER FOR APPROVAL. PRIOR TO CONSTRUCTION. O MATCH LIGHTEST STONE COLOR. OR DRAINAGE BLOCK-OUTS, 8'X4', AT MINIMUM OC. D PROVIDE SHOP DRAWING FOR WALL INCLUDING LS, SEALED BY A LICENSED STRUCTURAL ENGINEER,	13760 NOEL ROAD SUITE 1020 DALLAS, TEXAS, 75240 T: 972-866-0303
Y WALL SECTION	PARMER RANCH PHASE 2-4 LANDSCAPE PLAN GEORGETOWN, TEXAS
LANDSCAPE ARCHITECT FOR FINAL APPROVAL FOR COLUMIN, WALL AND FOOTINGS SEALED BY STRUCTURAL ENGINEER FOR FINAL DESIGN BASED ON SOL CONDITIONS AND GEOTECH. FINISH NOTES STONE NOTES / MOCK UPS TO BE APPROVED BY OWNER PRIOR TO CONSTRUCTION STONE (POST TENSION WALLS) COBRA STONE 512.746.5600 4-6-8° HT X 10-12° WIDE X RANDOM LENGTHS TUSCANY SANDSTONE RANDOM RUNNING BOND PATTERN SAW CUT ALL SIDES, CHOPPED FACE. MORTAR: TO MATCH LIGHTEST STONE COLOR STONE VENEER (COLUMNS) COBRA STONE 512.746.5600 4-6-8° HT TUSCANY SANDSTONE RANDOM ASHLAR PATTERN SAW CUT ALL SIDES, CHOPPED FACE. MORTAR: TO MATCH LIGHTEST STONE COLOR COBRA STONE 512.746.5600 4-6-8° HT TUSCANY SANDSTONE RANDOM ASHLAR PATTERN SAW CUT ALL SIDES, CHOPPED FACE. MORTAR: TO MATCH LIGHTEST STONE COLOR COBRA STONE 512.746.5600 4-6-8° HT TUSCANY SANDSTONE RANDOM ASHLAR PATTERN SAW CUT ALL SIDES, CHOPPED FACE. MORTAR: TO MATCH LIGHTEST STONE COLOR CAPS 4° LIMESTONE LUEDER CAP WITH 2° OVERHANG COLOR: CREAM SAWN TOP AND BOTTOM, ROUGH CHOPPED SIDES WOOD FENCE CABOT STAINS SEMI-TRANSPARENT STAIN COLOR: CHESTNUT BROWN, OR APPROVED EQUAL	Drawing File Name   C:\UsersIndedear\Documents\Desktop Things\File   Transfer\_Ph2-4   Landscaping\Cadfiles\LA\Sheets\LD-1.dwg   Issued:   1   2   3   4   5   Revisions:   1   2   3   4   5   Issue Date:   06/18/2021   Drawn By: ND Reviewed By: CM Project No. HARDSCAPE DETAILS
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