

OWNER / SEWER

OWNER: *BOONE COUNTY REGIONAL SEWER DISTRICT*

REPRESENTATIVE: JESSE STEPHENS

ADDRESS: 1314 N. 7TH ST., COLUMBIA, MO 65201

PHONE: 573-443-2774

WATER

OWNER: CONSOLIDATED PUBLIC WATER SUPPLY DISTRICT NO.1

REPRESENTATIVE: DALTON ROBERTS

ADDRESS: 1500 N 7TH ST., COLUMBIA, MO 65201

PHONE: 573-449-0324

ELECTRIC

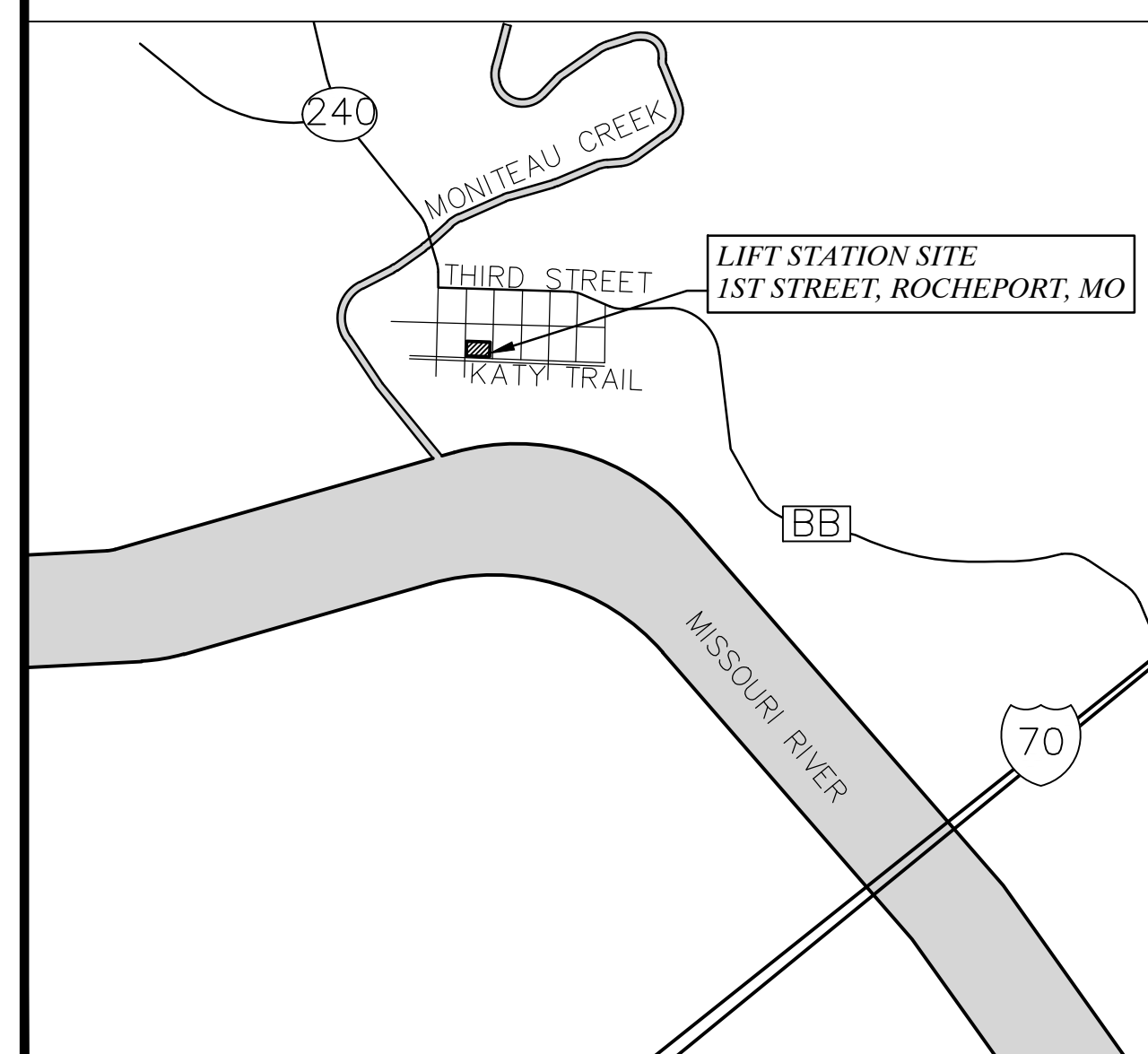
OWNER: BOONE COUNTY COOPERATIVE

REPRESENTATIVE: KIRK PICKETT

ADDRESS: 1413 RANGELINE ST., COLUMBIA, MO 65201

PHONE: 573-441-7322 EMAIL: KPICKETT@BOONEELECTRIC.COM

SPECIAL NOTES :



VICINITY MAP
NO SCALE

BCRSD PROJECT #09-2025
PROJECT NO. 25-10224



- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- SITE DEVELOPMENT
- MASTER PLANNING
- GENERAL CONSULTING

530A E. INDEPENDENCE DRIVE, UNION, MISSOURI 63084

TELEPHONE (636) 584-0540

FAX (636) 584-0512

E-MAIL mail@cochraneng.com

OCTOBER 2025

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SITE/ UTILITY PLAN AND LIFT STATION NEW WORK	C2
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GRATE/ RAILING PLAN	C4
DETAIL SHEET	D1



Erik A. Howell No. PE-2019000175
Registered Professional Engineer
State of Missouri for Cochran

Three working days prior to the start of any excavation on this site, contractor shall call 1-800-DIG-RITE for utility location information.

All OSHA rules & regulations established for the type of construction required by these plans shall be strictly followed (ie. Trenching, Blasting, etc.)

TOPOGRAPHIC SURVEY/ DEMOLITION PLAN

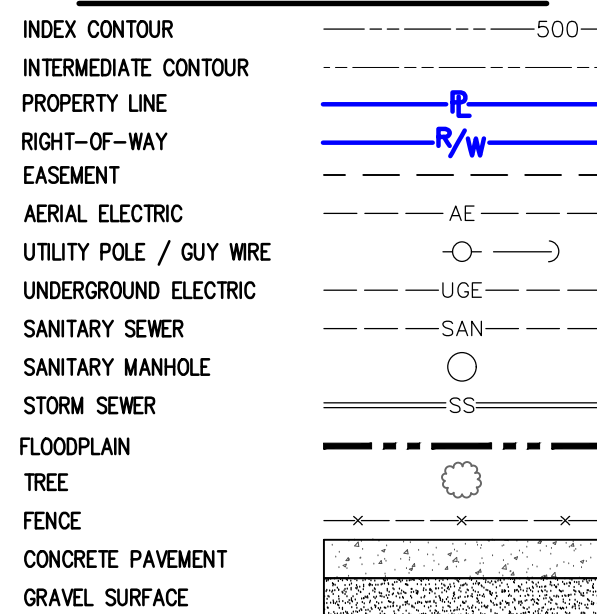
NOTES:

1. BEARINGS REFERENCED TO GRID NORTH OF THE MISSOURI COORDINATE SYSTEM OF 1983, CENTRAL ZONE AND ELEVATIONS REFERENCED TO NAVD 1988 PER GPS OBSERVATIONS UTILIZING THE MODOT VRS, RTK NETWORK AND GRS MONUMENT "BO 46"
2. NO INVESTIGATION HAS BEEN PERFORMED BY COCHRAN REGARDING HAZARDOUS WASTE.
3. THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY THE LAND SURVEYOR.
4. UNDERGROUND STRUCTURES, FACILITIES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.
5. THIS PROPERTY LIE WITHIN: "ZONE AE" (SHADED) SPECIAL FLOOD HAZARD AREAS WITH BFE AND ZONE X (SHADED) 0.2% ANNUAL CHANCE FLOOD HAZARD, AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTH LESS THAN ONE FOOT OR WITH DRAINAGE AREAS OF LESS THAN ONE SQUARE MILE PER FLOOD INSURANCE RATE MAP FOR BOONE COUNTY, MISSOURI & INCORPORATED AREAS, PER PANEL 230 OF 470 MAP NUMBER 29019C0230E, EFFECTIVE DATE APRIL 19, 2017.
6. PROJECT BENCHMARK IS GRS MONUMENT "BO-46" ELEV. IS 592.52 FEET (NAVD 88).
7. SITE BENCHMARK: IS A MARKED CROSS LOCATED ON HEADWALL NEAR THE SOUTHEAST CORNER OF THE INTERSECTION OF COLUMBIA STREET AND FIRST STREET. 588.39 FT (NAVD 88)
8. FIELDWORK WAS PERFORMED BY JMK APRIL, 2025
9. MISSOURI ONE CALL TICKET NO.: #250870053

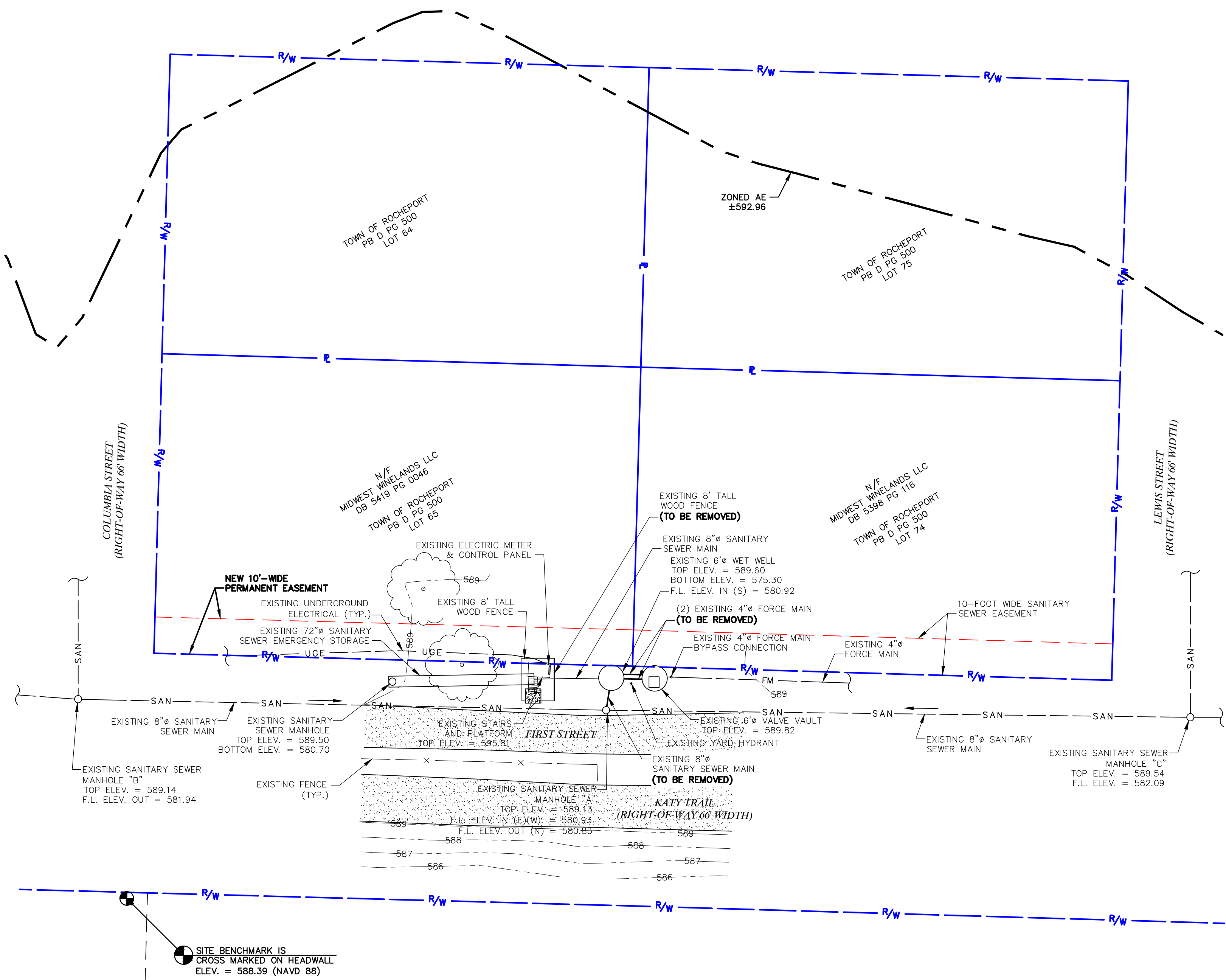
PHASING & BYPASS NOTES

1. CONTRACTOR SHALL PROVIDE ALL PARTS AND MATERIALS TO COMPLETE BYPASS PUMPING FOR THE PROJECT.
2. PRIOR TO STATION SHUT DOWN, THE CONTRACTOR SHALL HAVE ALL PARTS AND MATERIALS READY TO REDUCE STATION DOWNTIME.
3. CONTRACTOR SHALL DEMO PARTS SHOWN IN THE VALVE VAULT.
4. CONTRACTOR SHALL CONSTRUCT FROM THE EXISTING FLANGE TO THE CHECK VALVE FOR EACH DISCHARGE PIPE.
5. CLOSE BOTH GATE VALVES
6. CONTRACTOR TO START BYPASS PUMPING OPERATIONS AND COMPLETE THE REMAINING LIFT STATION IMPROVEMENTS.

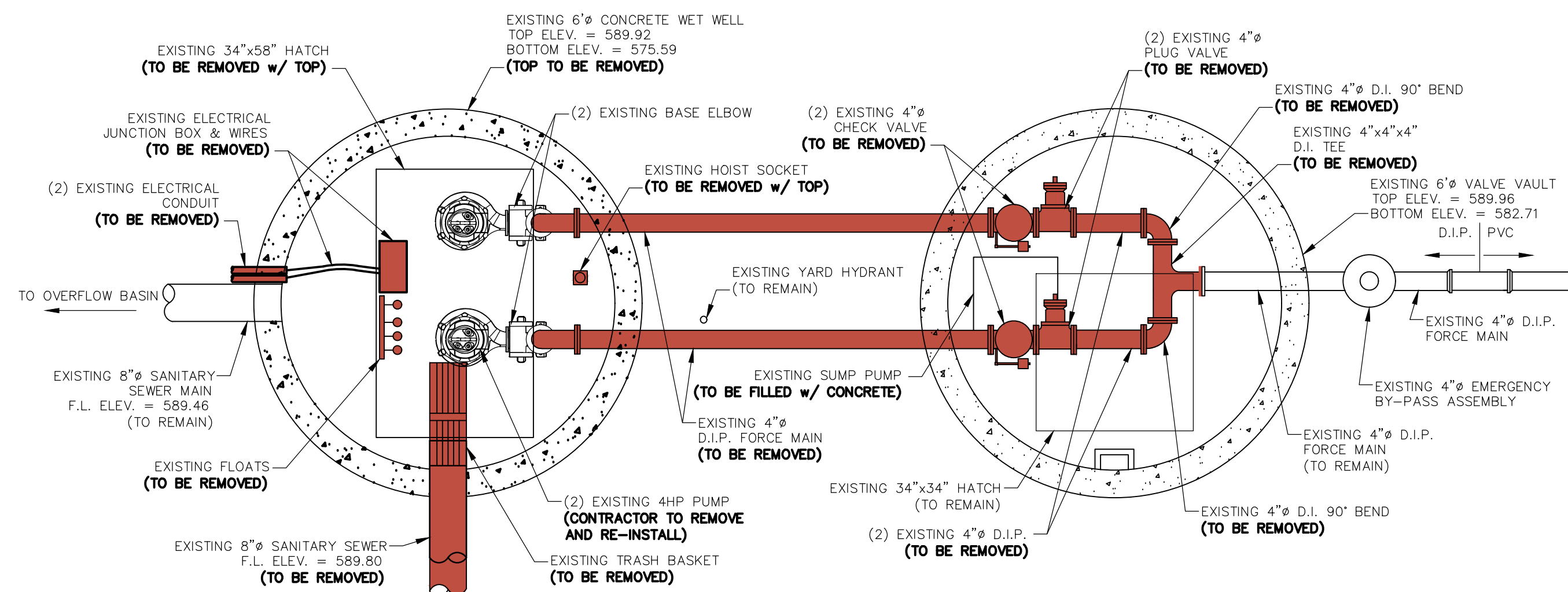
LEGEND



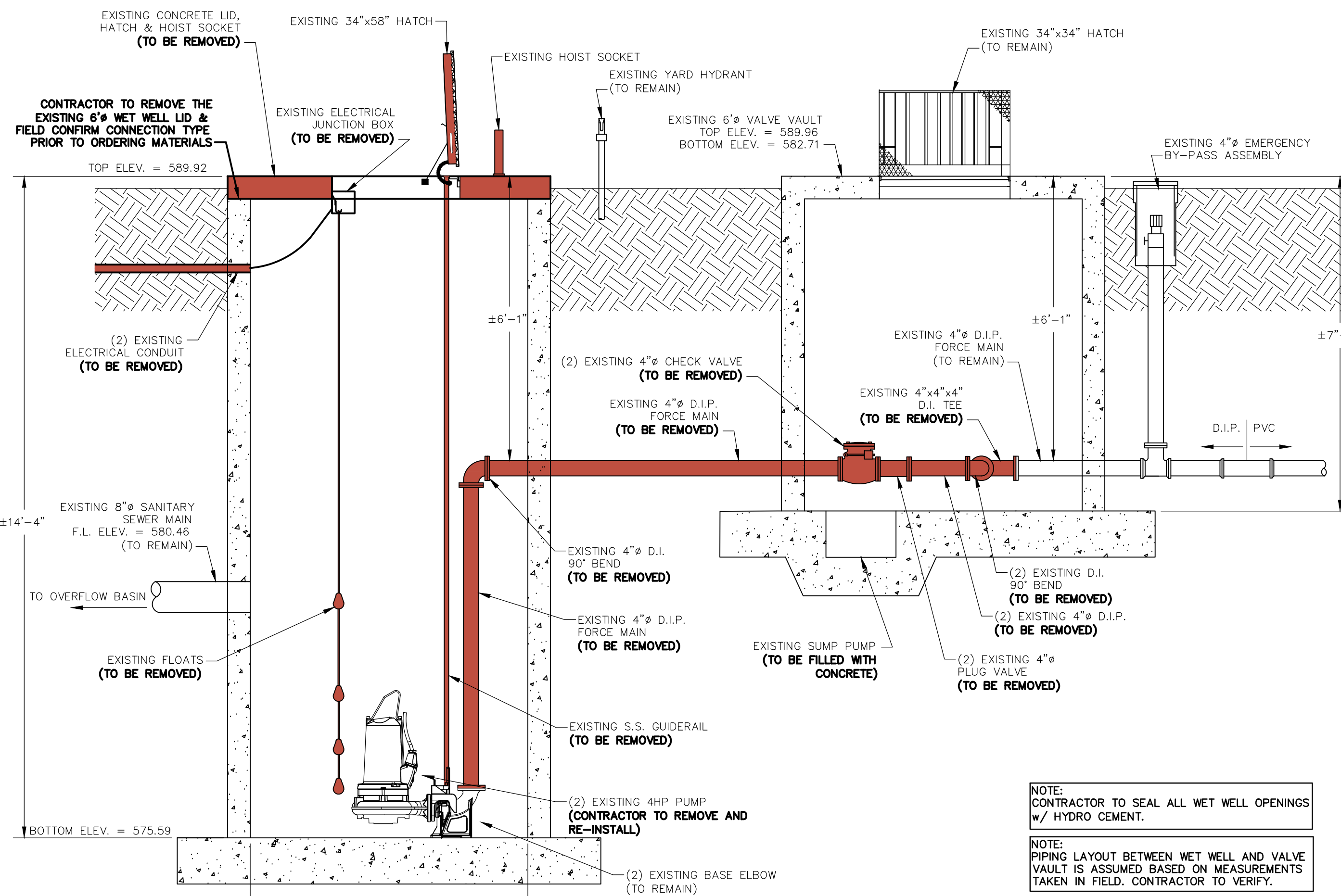
SCALE: 1"=20'
OCTOBER, 2025



LIFT STATION DEMOLITION PLAN



LIFT STATION PLAN VIEW
SCALE: 1" = 2'



LIFT STATION PROFILE VIEW
SCALE: 1" = 2'

NOTE: CONTRACTOR TO SEAL ALL WET WELL OPENINGS w/ HYDRO CEMENT.

NOTE: PIPING LAYOUT BETWEEN WET WELL AND VALVE VAULT IS ASSUMED BASED ON MEASUREMENTS TAKEN IN FIELD. CONTRACTOR TO VERIFY.

NOTE: CONTRACTOR TO VERIFY ELEVATIONS OF EXISTING FLOATS BEFORE DEMOLITION. CONTRACTOR TO INSTALL NEW FLOATS AT SAME ELEVATIONS.

636-584-0540 (tel.)
636-584-0512 (fax)
mail@cochrans.com

COCHRAN

330A E. Independence Dr.
Union, Missouri 63084

Missouri State Certificate of Authority Numbers:
Survey : 000380
Engineering : 001855
Architecture : 2002014240

Three working days prior to the start of any excavation, call 1-800-468-RTK for utility location information.

All OSHA rules & regulations apply to these plans and be strictly followed (ie. trenching, blasting, etc.)

STATE OF MISSOURI
ERIK A. HOWELL
NUMBER PE-2019000175
10/22/25
PROFESSIONAL ENGINEER

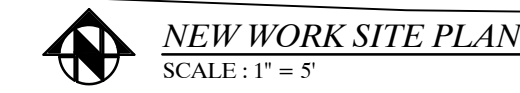
Erik A. Howell, P.E.
MO# PE-2019000175

**LIFT STATION UPGRADES
TRAILSIDE LIFT STATION
BOONE COUNTY REG. SEW. DIST.**

DATE	BY	APPD. BY
	MCH	EAH
OCT 2025		
AS SHOWN		
25-10224		

C1

A
B
C
D
E
F
G
H
I
J
K
L



SEE SPECIFICATION SECTION 09960

- MATERIAL INSTALLATION - SPRAY EQUIPMENT SHALL BE UTILIZED TO APPLY AN ACCURATE RATIO OF THE LINER SYSTEM. LINER SYSTEM TO BE ACCORDING TO THE MANUFACTURE'S RECOMMENDATION AND THICKNESS.

1. CONTRACTOR SHALL PROVIDE ALL PARTS AND MATERIALS TO COMPLETE BYPASS PUMPING FOR THE PROJECT.
2. PRIOR TO STATION SHUT DOWN, THE CONTRACTOR SHALL HAVE ALL PARTS AND MATERIALS READY TO REDUCE STATION DOWNTIME.
3. CONTRACTOR SHALL DEMO PARTS SHOWN IN THE VALVE VAULT.
4. CONTRACTOR SHALL CONSTRUCT FROM THE EXISTING FLANGE TO THE CHECK VALVE FOR EACH DISCHARGE PIPE.
5. CLOSE BOTH GATE VALVES
6. CONTRACTOR TO START BYPASS PUMPING OPERATIONS AND COMPLETE THE REMAINING LIFT STATION IMPROVEMENTS.

NOTE:
PLATFORM IS NOT SHOWN ON PLAN
VIEW FOR CLARITY

NOTE:
CONTRACTOR TO CONFIRM EXISTING
FORCE MAIN SIZE, TYPE AND
MATERIAL PRIOR TO ORDERING
PARTS.



LIFT STATION PLAN VIEW

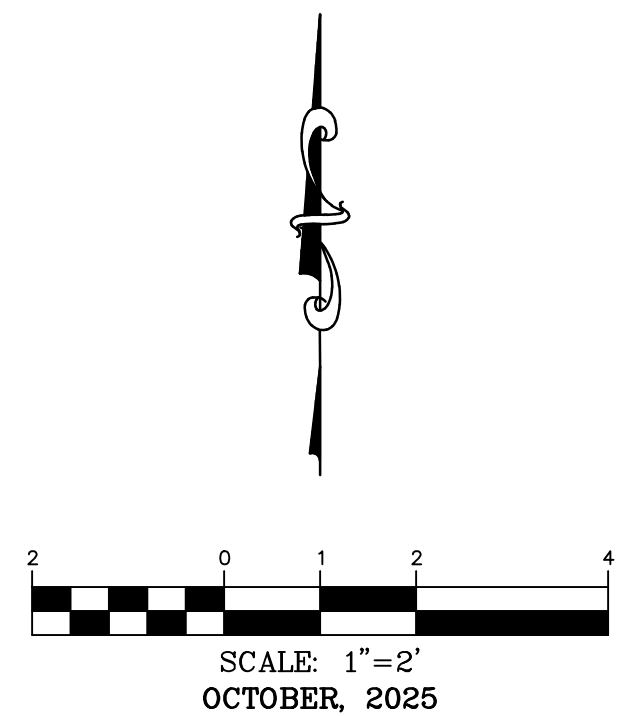
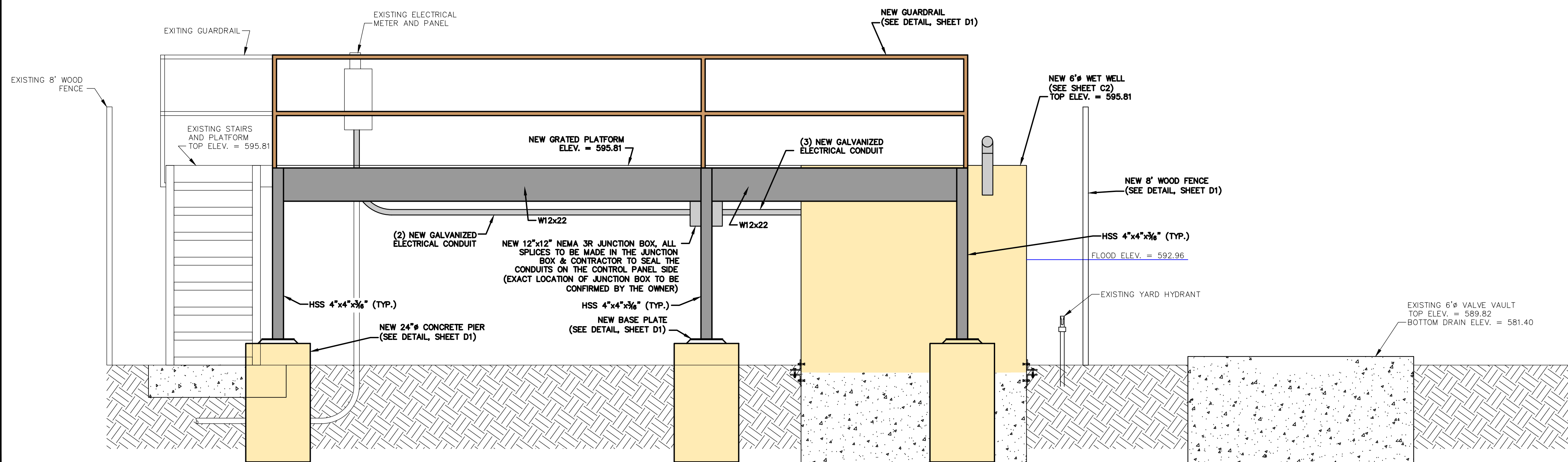
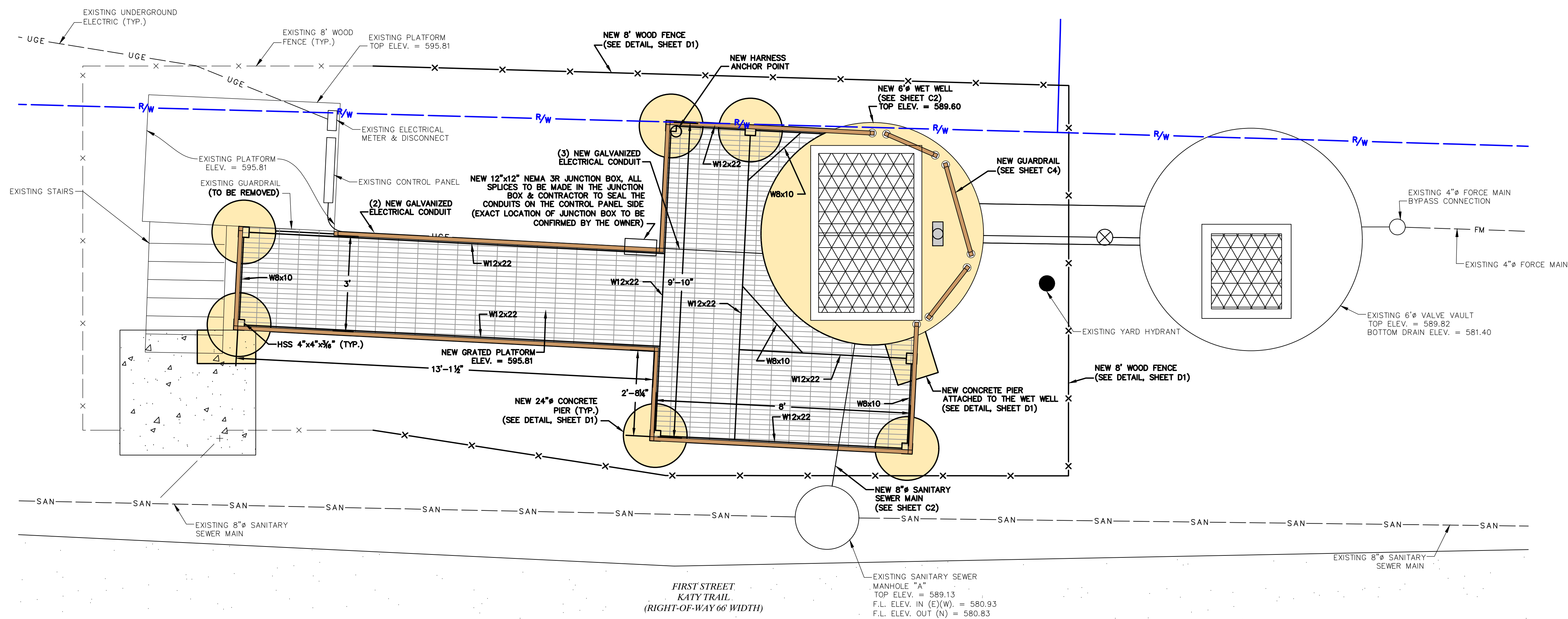
SCALE : 1" = 2'



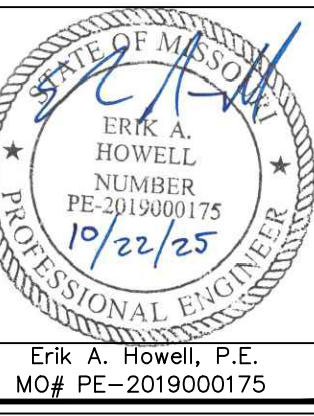
SCALE: 1" = 2'

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PLATFORM PLAN & PROFILE



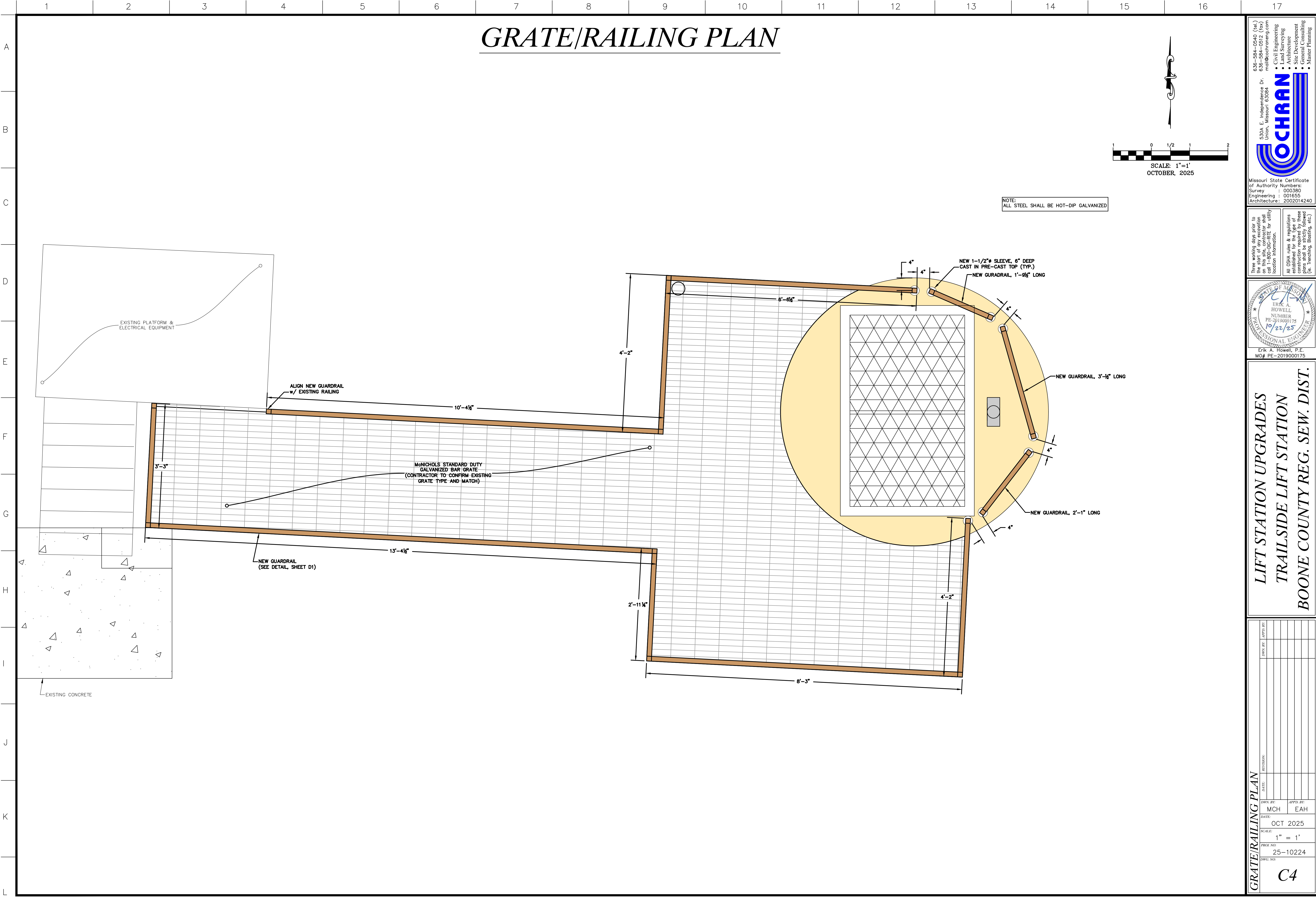
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*LIFT STATION UPGRADES
TRAILSIDE LIFT STATION
BOONE COUNTY REG. SEW DIST.*

DRAWN BY:		APPROVED BY:	
ALR		EAH	
DATE:		DATE:	
OCT 2025			
SCALE: 1" = 2'			
PROJ. NO. 25-10224			
DWG. NO.			
C3			

DWG NAME: F:\25-10224 - Rocheport Trailside Lift Station Upgrades\AutoCad Drawings\XXXX - Plan Sheets\C4 - GRATE RAIL PLAN.dwg LAYOUT TAB: C4 PLOTTED ON: Oct 22, 2025 - 8:06am PLOTTED BY: Etowell



DATE:		DATE:	
MCH		EAH	
OCT 2025			
1" = 1'			
25-10224			

LIFT STATION UPGRADES
TRAILSIDE LIFT STATION
BOONE COUNTY REG. SEW. DIST.

ERIK A. HOWELL
NUMBER
PE-2019000175
10/22/25
PROFESSIONAL ENGINEER
Erik A. Howell, P.E.
MO# PE-2019000175

Three working days prior to the start of any excavation work, the contractor shall call 1-800-486-8745 for utility location information.
All OSHA rules & regulations shall be strictly followed during construction required by these plans and be strictly followed (ie: trenching, blasting, etc.).

Missouri State Certificate of Authority Numbers:
Survey : 000380
Engineering : 001655
Architecture : 2002014240

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UCHRAN
• Civil Engineering
• Land Surveying
• Architecture
• Site Development
• General Consulting
• Master Planning

