

1250 WEST MITCHELL LIFT STATION SEWER ASSESSMENT AND REHABILITATION PROGRAM (SARP10)

MEMPHIS, TENNESSEE



LOCATION MAP

NOT TO SCALE



60 Germantown Court // Suite 100 // Memphis, Tennessee 38018
PHONE (901) 755-7166 // FAX (901) 755-7844

CONSTRUCTION
DOCUMENTS



Digitally signed by
Mark D. Lee
Date: 2021.07.28
09:56:02 -0500

G0.01

ABBREVIATIONS

Ø	DIAMETER
AFF	ABOVE FINISHED FLOOR
ALUM.	ALUMINUM
APPROX.	APPROXIMATE
BCB	BOTTOM CATCH BASIN
BCC	BACK OF CURB
BFP	BACKFLOW PREVENTOR
BFV	BUTTERFLY VALVE
CB	CATCH BASIN
CCTV	CLOSED CIRCUIT TELEVISION
CI	CURB INLET
CIPP	CURED-IN-PLACE PIPE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
CONC	CONCRETE
CONN	CONNECT
CONST.	CONSTRUCTION
CPLG.	COUPLING
CS	COMBINED SEWER
CU	COPPER
CV	CHECK VALVE
DB	DEED BOOK
DI	DROP INLET
DIP	DUCTILE IRON PIPE
DWCB	DOUBLE WING CATCH BASIN
DW	DRIVEWAY
ELEV.	ELEVATION
EXIST.	EXISTING
ELEC	ELECTRICAL SERVICE
EOI	END OF INFORMATION OR UNKNOWN TERMINATION POINT
EOP	EDGE OF PAVEMENT
FIP	FEMALE IRON PIPE
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FM	FORCE MAIN
GSP	GALVANIZED STEEL PIPE
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
HORZ	HORIZONTAL
HWY	HIGHWAY
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
INV	INVERT
LF	LINEAR FEET
MIN	MINIMUM
MIP	MALE IRON PIPE
MJ	MECHANICAL JOINT
MH	MANHOLE
MNPT	MALE NATIONAL PIPE THREAD
N/F	NOW OR FORMERLY
NPW	NON POTABLE WATER
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
PG	PAGE
PP	POWER POLE
PR	POINT REPAIR
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
PW	POTABLE WATER
PWF	WATER FAUCET
PROP.	PROPOSED
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RET	RETAINER
RJ	RESTRAINED JOINT
R.O.W.	RIGHT-OF-WAY
SD	STORM DRAIN
SHT	SHEET
SP	SIGNAL POLE
SPD	STANDARD PROCTOR DENSITY
SR	STATE ROUTE
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
SSTL	STAINLESS STEEL
STA	STATION
SWCB	SINGLE WING CATCH BASIN
TELECOM	TELECOMMUNICATION CONDUIT
TP	TELEPHONE POLE
TSB	TRAFFIC SIGNAL BOX
TS&V	TAPPING SLEEVE AND VALVE
TRAFCON	TRAFFIC SIGNAL COMM WIRE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
WM	WATER METER
WTR	WATER
W/	WITH
'	FEET
"	INCHES

INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
G0.01	COVER SHEET
G0.02	NOTES
C1.01	SEWER LAYOUT PLAN
C1.02	EXISTING CONDITIONS
C2.01	LIFT STATION SECTIONS
E1.01	ELECTRICAL PLAN

NOTES

GENERAL NOTES

- ALL DESIGN, CONSTRUCTION AND MATERIAL SHALL BE IN COMPLIANCE WITH THE SEWER ASSESSMENT AND REHABILITATION PROGRAM (SARP10) AND CITY OF MEMPHIS CONSTRUCTION SPECIFICATIONS AND STANDARDS.
- THE CONTRACTOR SHALL NOT ENTER UPON, WORK UPON NOR CAUSE DAMAGE TO ANY ADJACENT PROPERTIES WITHOUT PRIOR PERMISSION FROM SAID PROPERTY OWNER.
- GRADING AND DRAINAGE: FINISH GRADE SHALL BE SLOPED FOR POSITIVE DRAINAGE.
- PROPERTY LINES SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. GRADING, CLEARING, AND THE ERECTION OR REMOVAL OF FENCES ALONG PROPERTY LINES SHALL BE FULLY COORDINATED WITH ADJACENT PROPERTY OWNERS.
- ALL GRADING WORK SHALL BE PERFORMED IN SUCH A MANNER THAT ADJACENT PROPERTIES ARE NOT DAMAGED OR ADVERSELY AFFECTED.
- THE LOCATION OF ALL EXISTING UTILITIES SHALL BE PROPERLY VERIFIED PRIOR TO CONSTRUCTION. ALL WORK SHALL BE PERFORMED IN A MANNER TO ENSURE THAT EXISTING UTILITIES ARE NOT INTERFERED WITH OR DISRUPTED.
- THE CONTRACTOR IS TO INSTALL EROSION AND SEDIMENT CONTROL SYSTEMS AND STRUCTURES AS NECESSARY TO PREVENT SEDIMENT LADEN WATER FROM LEAVING THE SITE.
- CONTRACTOR IS RESPONSIBLE FOR AND SHALL PAY FOR ALL SURVEY LAYOUT AND STAKING.

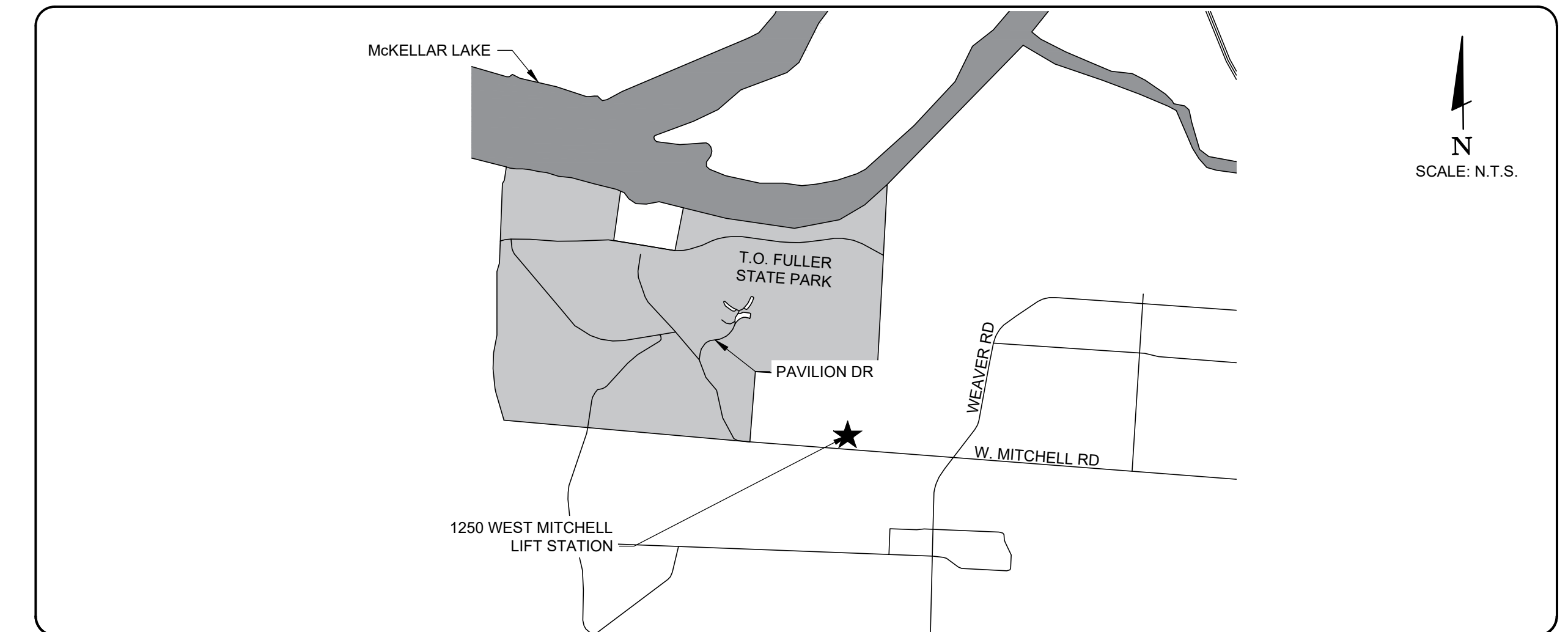
CITY OF MEMPHIS TYPICAL CONSTRUCTION NOTES

- LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND ARE NOT NECESSARILY ALL THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND/OR UNDERGROUND STRUCTURES PRIOR TO THE INITIATION OF ANY CONSTRUCTION. CONTRACTOR SHALL ALSO ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN CONSTRUCTION PERIMETERS. FOR SITE LOCATIONS OF EXISTING UTILITIES INVOLVING M.L.G.&W., SOUTH CENTRAL BELL, AND/OR TEXAS GAS COMPANY, PLEASE CALL 1-800-351-1111. FOR SEWER SERVICE LOCATIONS, CALL 901-636-8025.
- CONTRACTOR SHALL ENSURE UNINTERRUPTED SEWER SERVICE ON EXISTING SEWER AND SERVICE CONNECTIONS BY PROVIDING AMPLE TEMPORARY WASTEWATER PUMPING AND/OR BYPASSING.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES.
- CONTRACTOR SHALL NOTIFY THE SARP10 CONSTRUCTION MANAGER A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION.
- ALL AREAS IN CUT OR FILL WHERE VEGETATION HAS BEEN REMOVED SHALL BE SEEDED, MULCHED, FERTILIZED, AND/OR SODDED AS REQUIRED TO PREVENT EROSION.
- THE CONTRACTOR SHALL VERIFY EXISTING DATA AND REPORT ANY SIGNIFICANT DISCREPANCIES TO THE ENGINEER.
- ALL SANITARY SEWER TO BE CONSTRUCTED AS PER CITY OF MEMPHIS STANDARD CONSTRUCTION SPECIFICATIONS. SANITARY SEWER SERVICE CONNECTIONS TO BE INSTALLED AS PER CITY OF MEMPHIS STANDARD SST-16.
- ALL SEWER MANHOLE LIDS IN OPEN AREAS ARE TO BE CONSTRUCTED 1.5' ABOVE PROPOSED GRADE. IN BACKYARDS, MANHOLE LIDS ARE TO BE 1.5' ABOVE INITIAL GRADE, 0.5' ABOVE FINAL GRADE.
- ALL SANITARY SEWER, INCLUDING SERVICE CONNECTIONS, WHICH HAS LESS THAN 1.5' CLEARANCE (OUTSIDE OF PIPES) WITH DRAINAGE OR IN FILLED AREAS SHALL BE CLASS 50 D.I.P. OR CONCRETE ENCASED, 10' MINIMUM BOTH SIDES OF CROSSING. ALL DUCTILE IRON PIPE (D.I.P.) SHALL BE POLYETHYLENE LINED OR SHALL BE TREATED WITH PROTECTO 401 OR APPROVED EQUIVALENT.
- THE CITY OF MEMPHIS SHALL HAVE INGRESS/EGRESS RIGHTS TO USE PRIVATE DRIVES AND YARDS FOR THE PURPOSE OF MAINTAINING ALL PUBLIC SEWER LINES AND SHALL BEAR NO RESPONSIBILITY FOR THE MAINTENANCE OF SAID PRIVATE DRIVES AND YARDS.
- NO TREES, SHRUBS, PERMANENT STRUCTURES, OR OTHER UTILITIES (EXCEPT FOR CROSSINGS) WILL BE ALLOWED WITHIN SANITARY SEWER EASEMENT. NO OTHER UTILITIES OR SERVICES MAY OCCUPY SANITARY SEWER EASEMENTS IN PRIVATE DRIVES AND YARDS EXCEPT FOR CROSSINGS.
- ALL SANITARY SEWER MANHOLES IN REVERSE CROWN STREETS, ALLEYS, OR DRIVES (PUBLIC OR PRIVATE) SHALL BE PROVIDED WITH GASKETS AND PLUGS FOR PICK HOLES TO PREVENT DRAINAGE INFLOW INTO SEWER SYSTEM.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE AND EFFECTIVE EROSION CONTROL AS NECESSARY TO PREVENT ANY SILTATION INTO EXISTING DRAINAGE SYSTEM AND/OR ADJACENT PROPERTIES.

LEGEND

EXISTING	NEW	
		CAP OR PLUG
		SANITARY SEWER MANHOLE
		STORM SEWER MANHOLE
		CLEANOUT
		YARD HYDRANT
		FIRE HYDRANT
		REDUCER
		SOLID SLEEVE OR HDPE MJ ADAPTER
		WATER VALVE
		WATER METER
		AIR VALVE MH OR LINE STOP VALVE
		FORCE MAIN
		GAS LINE
		STORM SEWER LINE
		SANITARY SEWER LINE
		WATER MAIN
		CONTOUR
		FENCE
		POWER/TELEPHONE POLE
		TREE
		CENTERLINE
		PROPERTY BOUNDARY LINE
		RIGHT-OF-WAY
		EASEMENT
		USACE DREDGE LIMITS

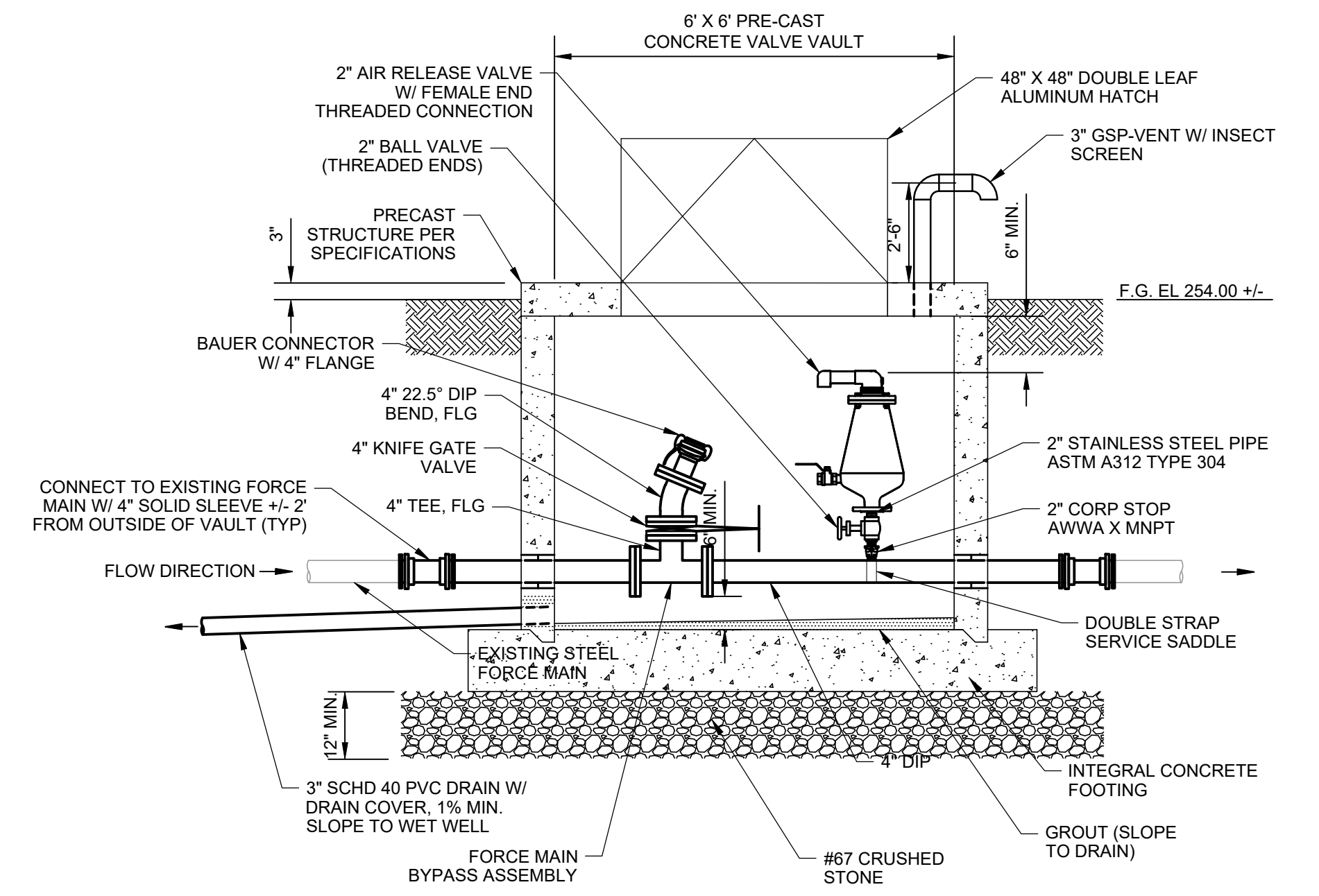
VICINITY MAP



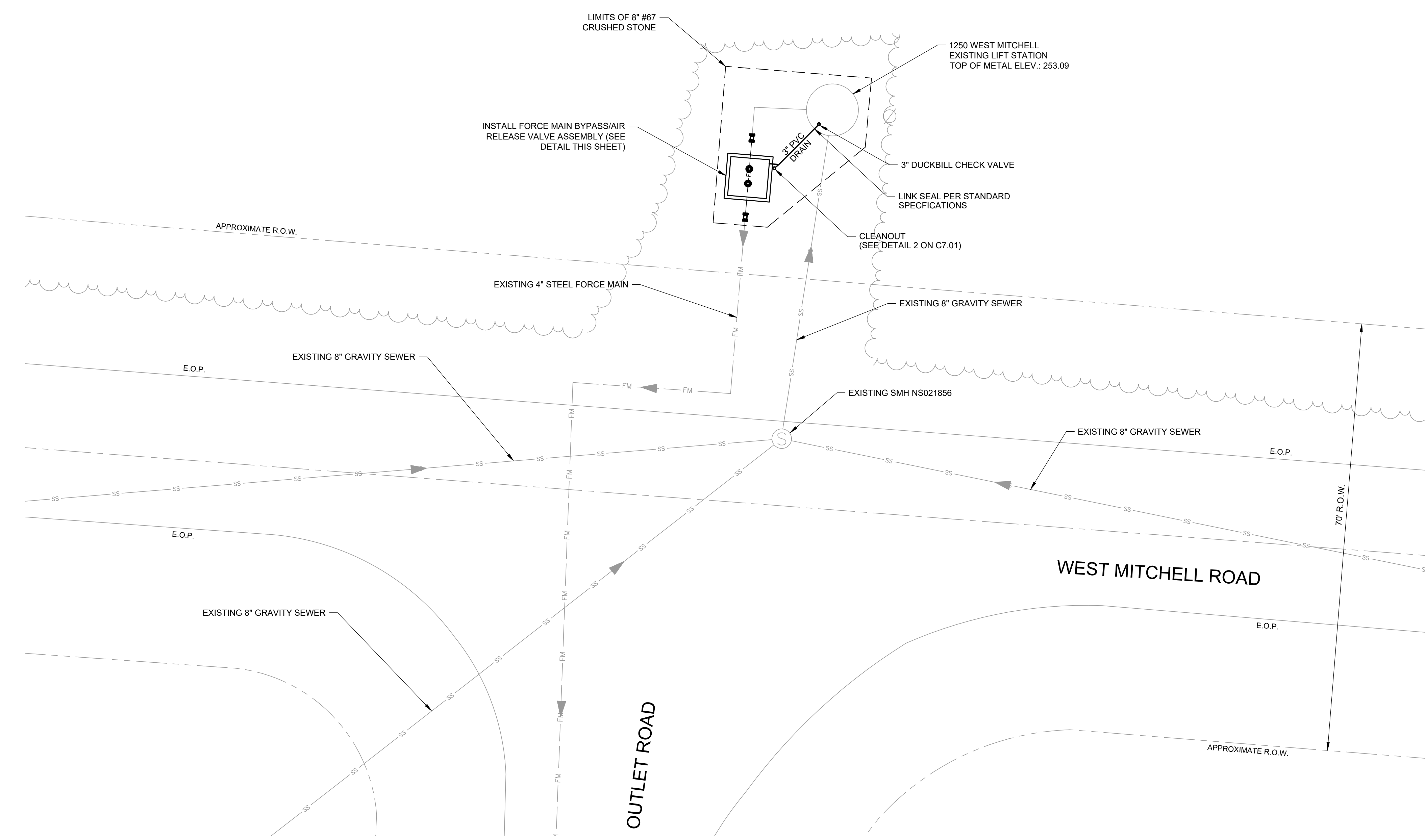
FLOOD HAZARD NOTE:
THE SUBJECT PROPERTY IS LOCATED IN A SPECIAL FLOOD HAZARD AREA ZONE "X" (MINIMAL AREAS OUTSIDE THE 1-PERCENT AND 0.2 PERCENT ANNUAL CHANCE FLOOD EVENT) AS PER FLOOD LINES ESTABLISHED BY THE FEDERAL MANAGEMENT AGENCY AS SHOWN ON FLOOD INSURANCE RATE MAP NUMBER 4715700415F, DATED SEPTEMBER 28, 2007.

BENCHMARK NOTE:
CITY OF MEMPHIS BENCHMARK NUMBER 1256 - FIELDS RD. & OUTLET RD.: CITY MONUMENT IS LOCATED ON THE N.W. CORNER, AT B/CURB ER ON FIELDS RD. SIDE AT W. END OF S/WALK, ELEVATION: 283.51

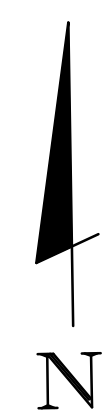
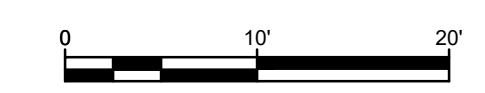
<table border="1"> <thead> <tr><th colspan="3">REVISION</th></tr> <tr><th>ITEM NO.</th><th>DESCRIPTION OF CHANGE</th><th>APPROVAL DATE</th></tr> </thead> <tbody> <tr><td>0</td><td>ISSUED FOR CONST.</td><td>7/28/2021</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>			REVISION			ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE	0	ISSUED FOR CONST.	7/28/2021																												SEWER BASIN: NS 02-1	G0.02
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<p>Digitally signed by Mark D. Noe Date: 2021.07.28 10:04:59-0500</p>			DIVISION OF ENGINEERING NOTES LOCATION: 1250 WEST MITCHELL LIFT STATION MEMPHIS, TENNESSEE																																					
			SURVEY: DESIGN BY: BARGE DATE: 7/2021 PROJECT NO.: 36592-04 SCALE: NONE REVIEWED:																																					
Lift Station Rehab Design Group 2-B MEMPHIS, TENNESSEE DEVELOPER: SARP10 ENGINEER: BARGE DESIGN SOLUTIONS, INC.			DEPUTY CITY ENGINEER	DATE																																				
			CITY ENGINEER	DATE																																				



FM BYPASS/AIR RELEASE ASSEMBLY
SCALE: 1/2" = 1'-0"



SEWER LAYOUT PLAN
SCALE: 1" = 10' - 0"



APPROVED FOR CONSTRUCTION

THE DOCUMENT BEARING THIS STAMP HAS BEEN RECEIVED AND REVIEWED BY THE CITY OF MEMPHIS DIVISION OF ENGINEERING UNDER AUTHORITY DELEGATED BY THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF WATER POLLUTION CONTROL. IT IS HEREBY APPROVED FOR CONSTRUCTION BY THE CITY ENGINEER AS EVIDENCED BY HIS SIGNATURE IN THE TITLE BLOCK BELOW.

APPROVAL EXPIRES 1 YEAR FROM APPROVAL DATE BELOW. THIS APPROVAL SHALL NOT BE CONSTRUED AS CREATING A PRESUMPTION OF CORRECT OPERATION OR AS WARRANTING BY THE CITY ENGINEER THAT THE APPROVED FACILITIES WILL REACH THE DESIRED GOALS.

FLOOD HAZARD NOTE:
THE SUBJECT PROPERTY IS LOCATED IN A SPECIAL FLOOD HAZARD AREA ZONE "X" (MINIMAL AREAS OUTSIDE THE 1-PERCENT AND 0.2 PERCENT ANNUAL CHANCE FLOOD EVENT) AS PER FLOOD LINES ESTABLISHED BY THE FEDERAL MANAGEMENT AGENCY AS SHOWN ON FLOOD INSURANCE RATE MAP NUMBER 47157C0415F, DATED SEPTEMBER 28, 2007.

BENCHMARK NOTE:
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REVISION	DESCRIPTION OF CHANGE	APPROVAL DATE
0	ISSUED FOR CONST.	7/28/2021

Digitally signed by
Mark D. Nee
Date: 2021.07.28
10:05:16-05'00'

SEWER BASIN: NS 02-1

C1.01

DIVISION OF ENGINEERING

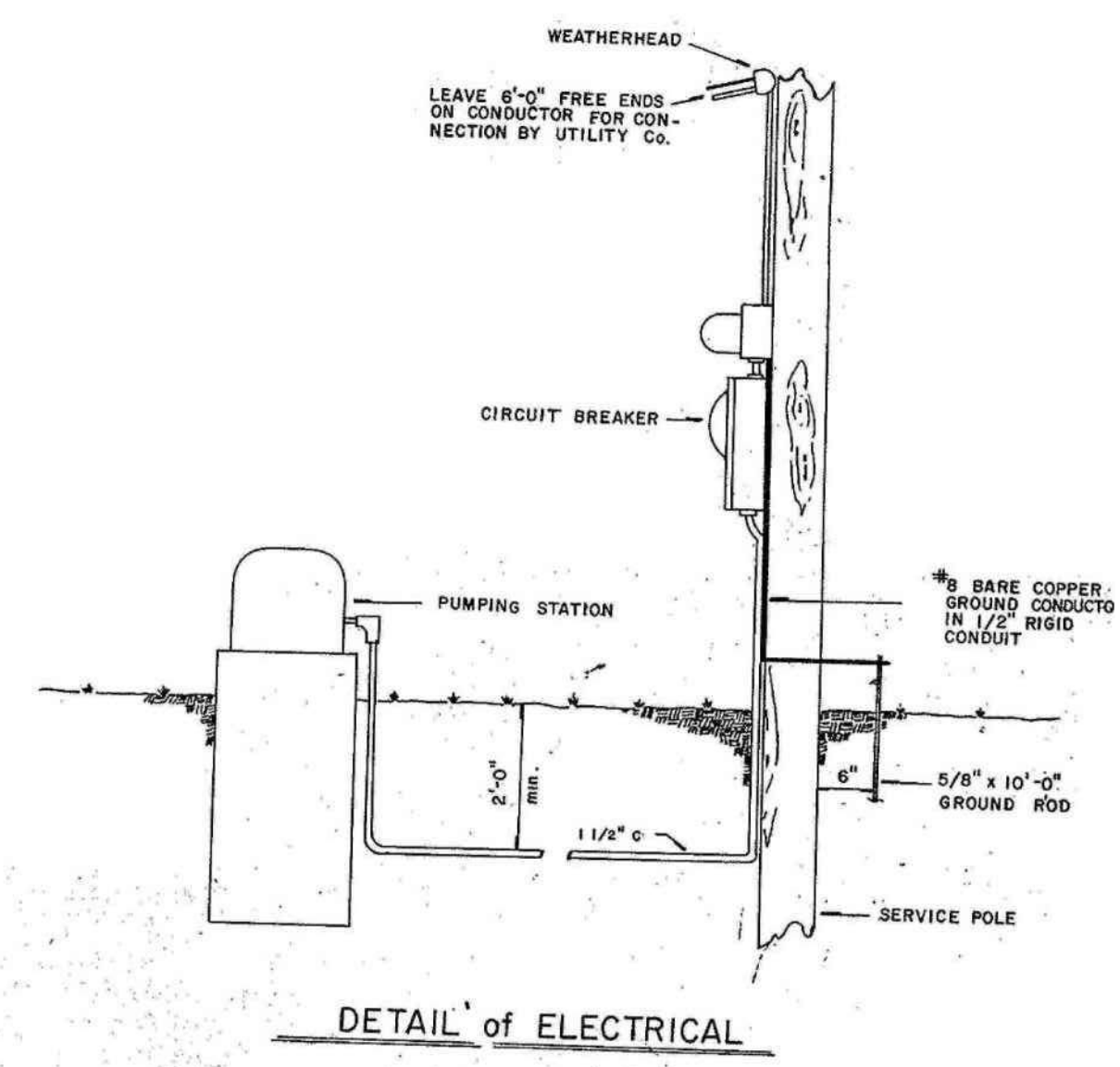
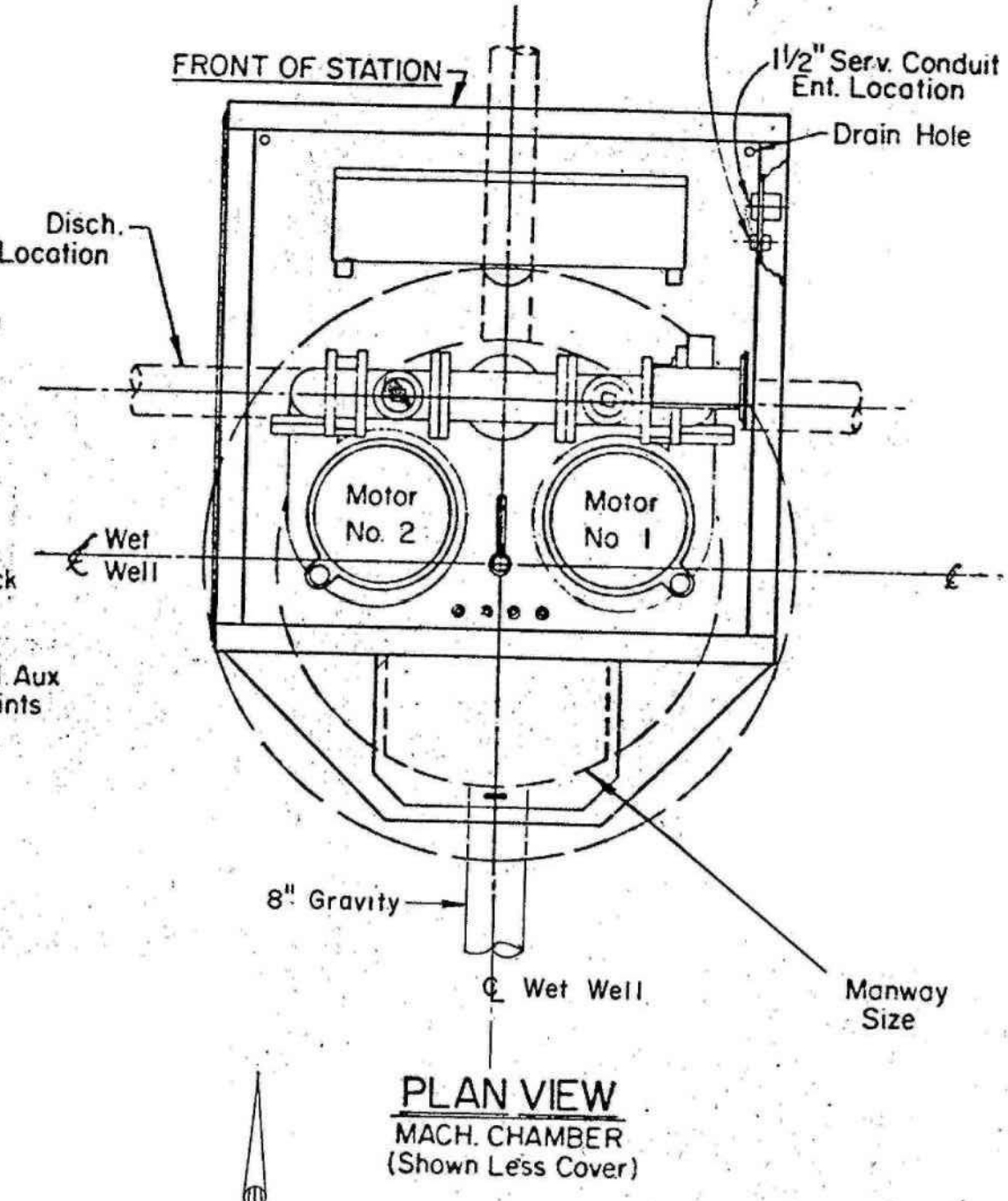
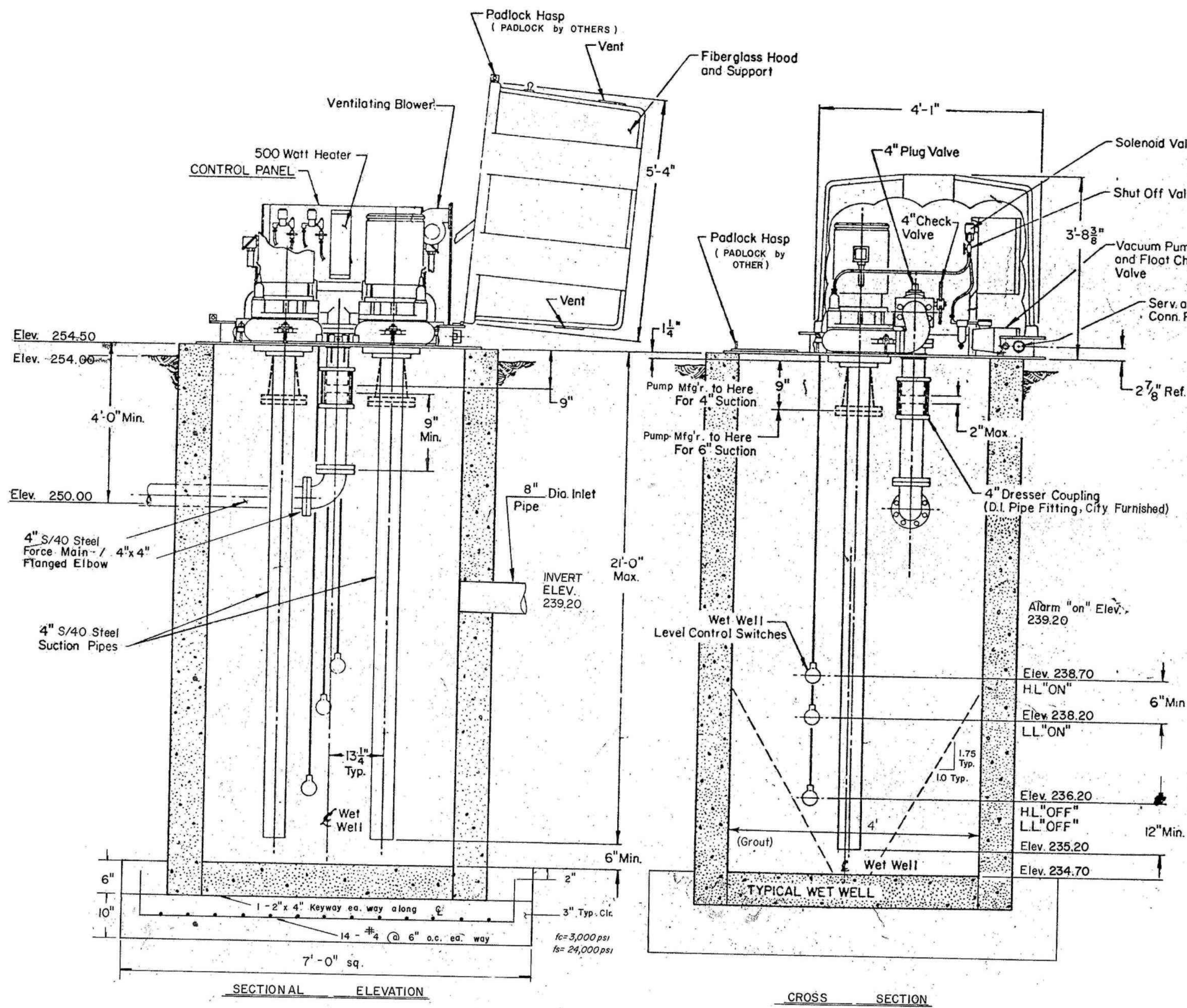
SEWER LAYOUT PLAN
LOCATION: 1250 WEST MITCHELL LIFT STATION
MEMPHIS, TENNESSEE

SURVEY: DATE: PROJECT NO.: 36592-04
DESIGN BY: BARGE DATE: 7/2021 SCALE: NONE
REVIEWED: DATE: DATE: DATE

DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

Lift Station Rehab Design Group 2-B
MEMPHIS, TENNESSEE
DEVELOPER: SARPIO
ENGINEER: BARGE DESIGN SOLUTIONS, INC.

7/28/2021 8:53 AM
C:\Users\markd\OneDrive\Documents\36592\3659204_04_CAD\WATER\02 - 1250 West Mitchell\03 - PLOT\3659204_C1.01_1250 W Mitchell_C3D18.dwg



EXISTING LIFT STATION
SCALE: N.T.S.

FLOOD HAZARD NOTE:
THE SUBJECT PROPERTY IS LOCATED IN A SPECIAL FLOOD HAZARD AREA ZONE "X" (MINIMAL AREAS OUTSIDE THE 1-PERCENT AND 0.2 PERCENT ANNUAL CHANCE FLOOD EVENT) AS PER FLOOD LINES ESTABLISHED BY THE FEDERAL MANAGEMENT AGENCY AS SHOWN ON FLOOD INSURANCE RATE MAP NUMBER 47157C0415F, DATED SEPTEMBER 28, 2007.

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REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE
0	ISSUED FOR CONST.	7/28/2021

Digitally signed by Mark B. Barge
Date: 2021.07.28 10:04:47 -05'00'

SEWER BASIN: NS 02-1 C1.02

DIVISION OF ENGINEERING

EXISTING CONDITIONS

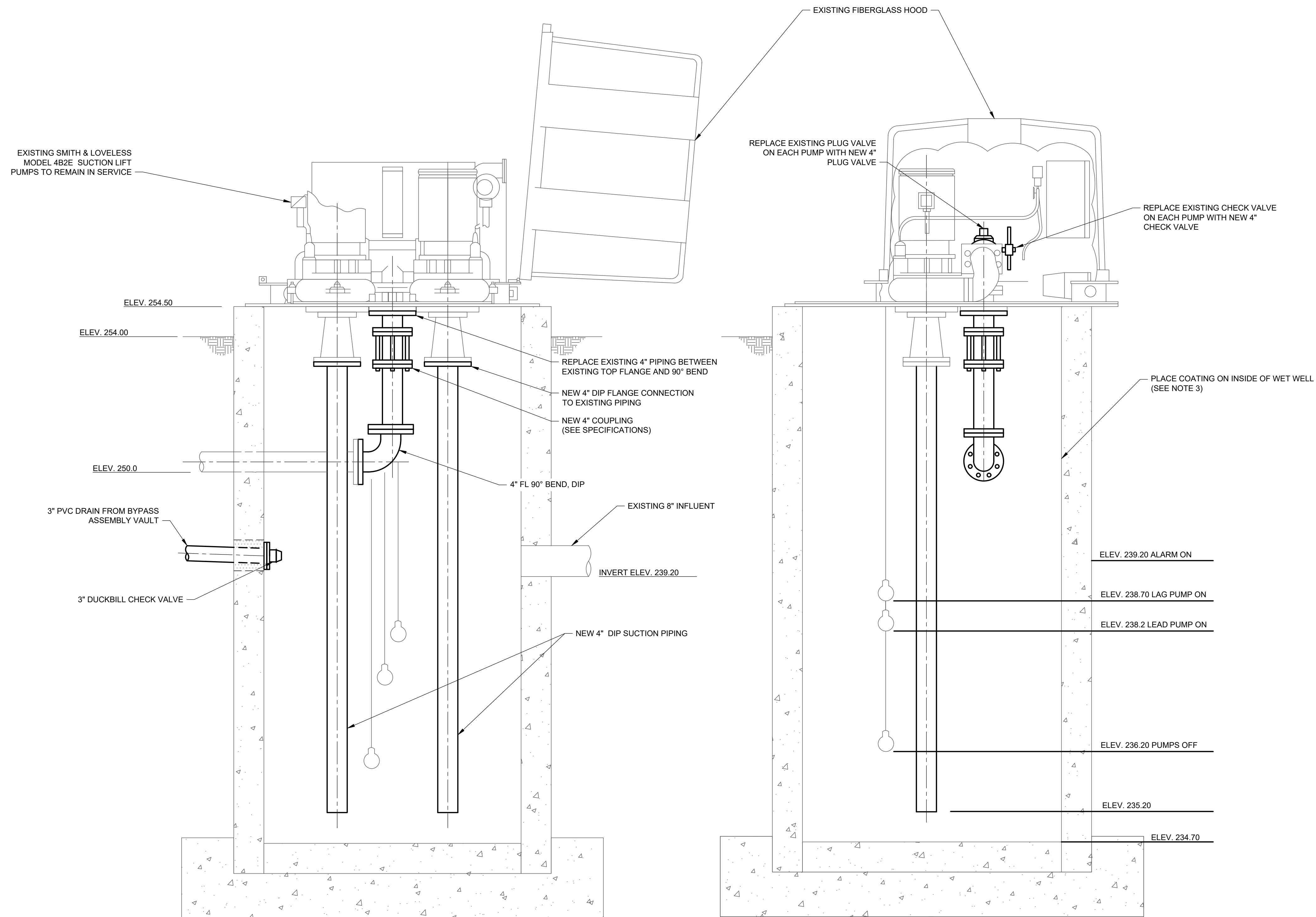
LOCATION: 1250 WEST MITCHELL LIFT STATION
MEMPHIS, TENNESSEE

SURVEY: DATE: PROJECT NO.: 36592-04
DESIGN BY: BARGE DATE: 7/2021 SCALE: NONE
REVIEWED:

DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

Lift Station Rehab Design Group 2-B
MEMPHIS, TENNESSEE
ENGINEER: BARGE DESIGN SOLUTIONS, INC.

7/28/2021 8:54 AM Caroline Sanders F:\36\36592\3659204\04_CAD\WARR\02 - 1250 West Mitchell\03 - PLOT\3659204_C1_01_1250 W Mitchell_C3D18.dwg



LIFT STATION SECTION

SCALE: 1" = 1'-0"

NOTES:

- EXISTING PIPING LOCATION AND CONDITION SHOULD BE CONFIRMED PRIOR TO REPLACEMENT.
- CONTRACTOR TO SUPPLY AND INSTALL ADDITIONAL PIPING AND FITTINGS AS NECESSARY TO MATCH EXISTING PIPING CONNECTIONS.
- CONTRACTOR SHALL APPLY S CITY OF MEMPHIS APPROVED COATING SYSTEM TO ALL INTERIOR SURFACES OF THE WET WELL.
- EXISTING PUMP DATA COLLECTED FROM THE "1250 WEST MITCHELL ROAD - LIFT STATION ASSESSMENT REPORT" DATED SEPTEMBER 20, 2016.

PUMP 1/2 DATA:
 - MANUFACTURER: SMITH & LOVELESS
 - TYPE: VERTICAL CENTRIFUGAL
 - RATED CAPACITY: 180 GPM @ 28 FT OF HEAD
 - MODEL: 4B2E
 - MOTOR HP: 5 HP

FLOOD HAZARD NOTE:
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ITEM NO.	REVISION DESCRIPTION OF CHANGE	APPROVAL DATE
0	ISSUED FOR CONST.	7/28/2021

SEWER BASIN: NS 02-1

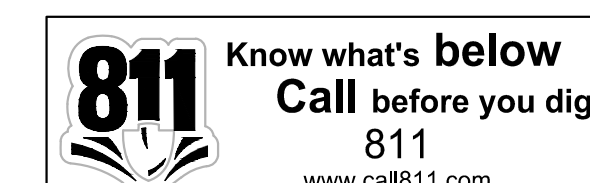
C2.01

DIVISION OF ENGINEERING

LIFT STATION SECTIONS

LOCATION: 1250 WEST MITCHELL LIFT STATION
 MEMPHIS, TENNESSEE

DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE



Lift Station Rehab Design Group 2-B
 MEMPHIS, TENNESSEE
 DEVELOPER: SARPIO
 ENGINEER: BARGE DESIGN SOLUTIONS, INC.

MARK DEWAYNE NOE
 REGISTERED ENGINEER
 Digitally signed by Mark D. Noe
 Date: 2021.07.28 10:05:28 -05'00'

SURVEY: DATE: PROJECT NO.: 36592-04
 DESIGN BY: BARGE DATE: 7/2021 SCALE:
 REVIEWED:

7/28/2021 9:54 AM
 C:\Users\mitchell\OneDrive\Documents\3659204\04_CAD\WATER\02 - 1250 West Mitchell\03 - PLOT\3659204_C2.01_1250 W Mitchell_C2.01.dwg



Electrical Meter AND DISCONNECT SWITCH



Lift station, warning light, SIGNAGE and electrical equipment.



LOCATION OF SITE

CODE ANALYSIS - INTERNATIONAL BUILDING CODE 2015

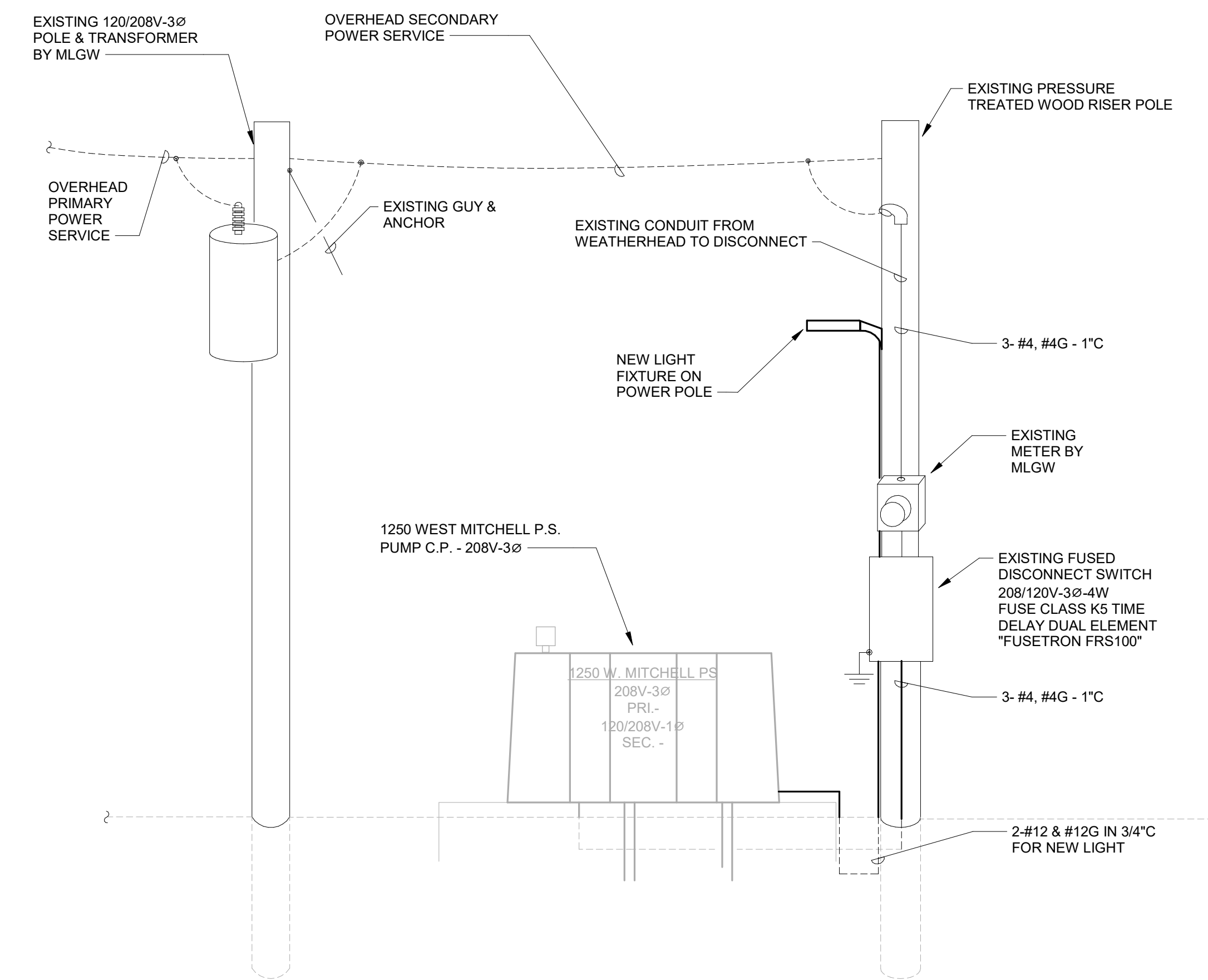
CODE COMMENTS

JURISDICTION
Memphis and Shelby County Construction Code Enforcement

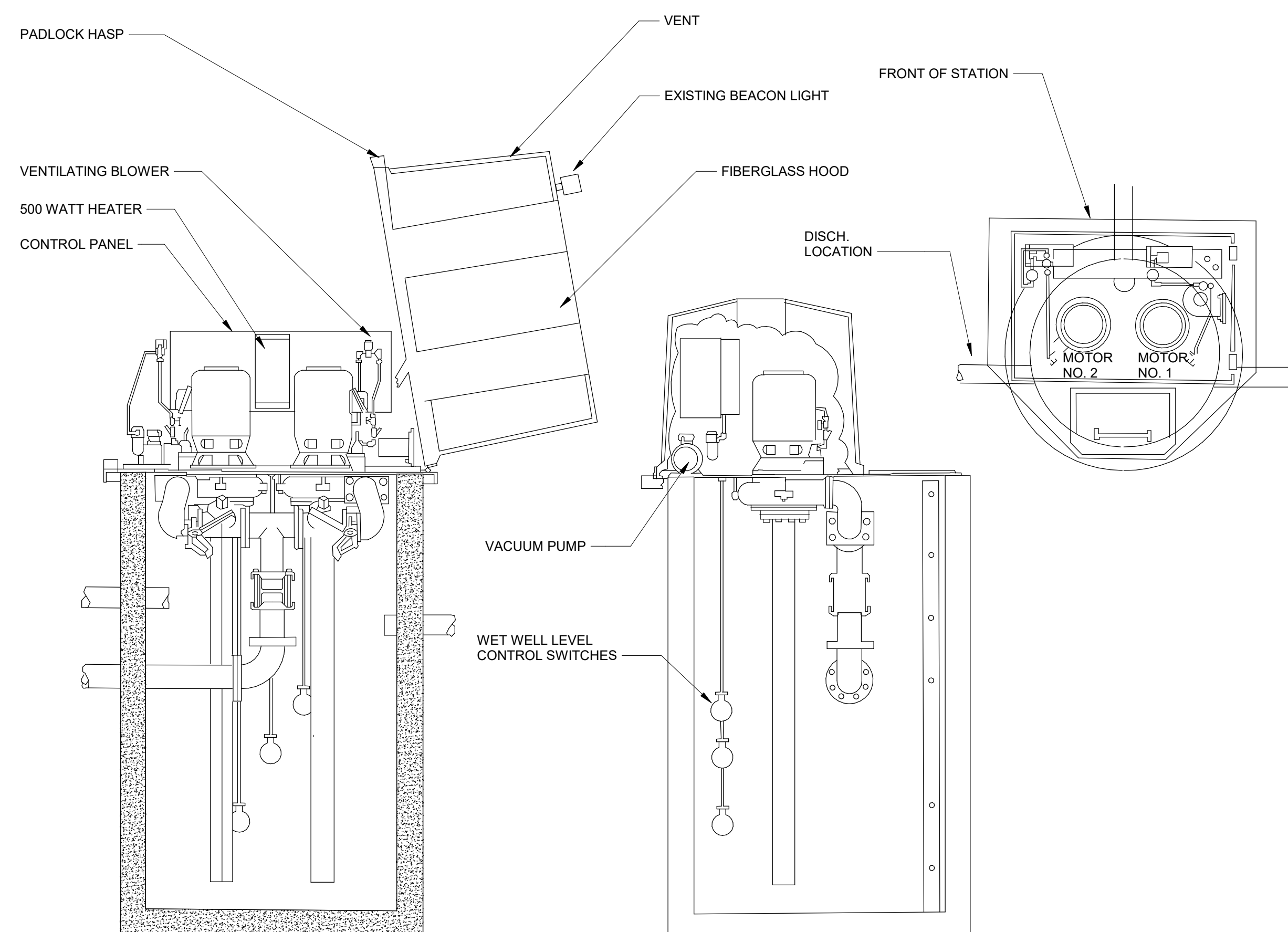
APPLICABLE CODES
2015 International Building Code with Local Amendments
2015 International Existing Building Code with Local Amendments
2015 International Residential Code with Local Amendments
2014 National Electrical Code
2018 Joint Electrical Code
2015 International Mechanical Code with Local Amendments
2015 International Fuel Gas Code with Local Amendments
2015 International Plumbing Code with Local Amendments
2015 International Energy Conservation Code with Local Amendments
2009 ICC A117.1 Accessibility and Useable Buildings and Facilities (by reference)
2013 ASME 17.1 Safety Code for Elevators and Escalators (by reference)

GENERAL PROJECT NOTES:

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE, AND ALL OTHER APPLICABLE STANDARDS AND REGULATIONS ENFORCED BY THE AUTHORITY HAVING JURISDICTION.
- ALL ABOVE GROUND EXTERIOR CONDUIT SHALL BE GALVANIZED RIGID STEEL CONDUIT WITH CORROSION RESISTANT FITTINGS, CLAMPS AND SUPPORT.
- IN THE EVENT OF CONFLICTS BETWEEN THE DRAWINGS, SPECIFICATIONS, CODES AND REGULATIONS, NOTIFY THE ENGINEER OF RECORD FOR HIS OPINION PRIOR TO INSTALLATION.
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL AND TO THE ENGINEER FOR REVIEW.
- SMACNA SEISMIC RESTRAINT MANUAL, THIRD EDITION 2008, OR LATEST REVISION MAY BE USED AS A GUIDE FOR GENERAL SEISMIC SUPPORT DETAIL AND SUPPORT SPACING RECOMMENDATIONS.
- COORDINATE LOCATION OF ALL LIGHTING FIXTURES, MECHANICAL EQUIPMENT AND ACCESS PANELS WITH EXISTING CONDITIONS PRIOR TO ROUGH-IN.
- WHILE EFFORT HAS BEEN MADE TO IDENTIFY EXISTING CIRCUITS THAT ARE TO BE REMOVED OR REPLACED, THE INFORMATION MAY NOT BE ACCURATE.
- ELECTRICAL CONTRACTOR SHALL VERIFY VOLTAGE AND AMP DRAW FOR ANY NEW EQUIPMENT.
- EXISTING CONTROL PANEL TO REMAIN.
- THE MAIN CONTROL PANEL IS FED WITH AN EXISTING 208V 3PH 40A FUSED DISCONNECT ABOVE GRADE.
- INSTALL OVERHEAD LIGHT AT THIS LOCATION EQUAL TO LITHONIA DSX0 LED P2 40K T4M MVOLT RUMBA PIR. POWER FROM A CIRCUIT BREAKER IN THE CONTROL PANEL.
- REPLACE FUSES ON DISCONNECT.
- RE-CONNECT AND TIGHTEN ALL ELECTRICAL CONNECTIONS.



NEW DRAWING 1250 WESTMITCHELL PUMP STATION SINGLE
② LINE DIAGRAM
N.T.S.

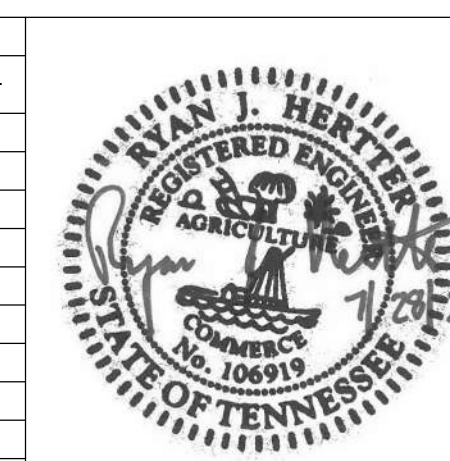


① PUMP ELECTRICAL PLAN
N.T.S.

FLOOD HAZARD NOTE:
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BENCHMARK NOTE:
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REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE



SEWER BASIN: NS 02-1

E1.01

DIVISION OF ENGINEERING
ELECTRICAL PLAN
LOCATION: 1250 WEST MITCHELL LIFT STATION
MEMPHIS, TENNESSEE

SURVEY: PROJECT NO.: 36592-04
DESIGN BY: BARGE DATE: 9/2020 SCALE: N.T.S.
REVIEWED:

DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE



Lift Station Rehab Design Group 2-B
MEMPHIS, TENNESSEE
DEVELOPER: SARP 10
ENGINEER: BARGE DESIGN SOLUTIONS, INC.

1585 WEST MITCHELL LIFT STATION SEWER ASSESSMENT AND REHABILITATION PROGRAM (SARP10) MEMPHIS, TENNESSEE

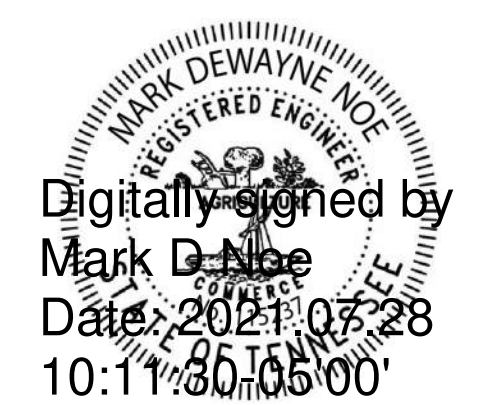


LOCATION MAP

NOT TO SCALE



CONSTRUCTION DOCUMENTS



G0.01

ABBREVIATIONS

Ø	DIAMETER
AFF	ABOVE FINISHED FLOOR
ALUM.	ALUMINUM
APPROX.	APPROXIMATE
BCB	BOTTOM CATCH BASIN
BOC	BACK OF CURB
BFP	BACKFLOW PREVENTOR
BFV	BUTTERFLY VALVE
CB	CATCH BASIN
CCTV	CLOSED CIRCUIT TELEVISION
CI	CURB INLET
CIPP	CURED-IN-PLACE PIPE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
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CONN	CONNECT
CONST.	CONSTRUCTION
CPLG.	COUPLING
CS	COMBINED SEWER
CU	COPPER
CV	CHECK VALVE
DB	DEED BOOK
DI	DROP INLET
DIP	DUCTILE IRON PIPE
DWCB	DOUBLE WING CATCH BASIN
DW	DRIVEWAY
ELEV.	ELEVATION
EXIST.	EXISTING
ELEC	ELECTRICAL SERVICE
EOI	END OF INFORMATION OR UNKNOWN TERMINATION POINT
EOP	EDGE OF PAVEMENT
FIP	FEMALE IRON PIPE
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FM	FORCE MAIN
GSP	GALVANIZED STEEL PIPE
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
HORZ	HORIZONTAL
HWY	HIGHWAY
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
INV	INVERT
LF	LINEAR FEET
MIN	MINIMUM
MIP	MALE IRON PIPE
MJ	MECHANICAL JOINT
MH	MANHOLE
MNPT	MALENATIONAL PIPE THREAD
N/F	NOW OR FORMERLY
NPW	NON POTABLE WATER
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
PG	PAGE
PP	POWER POLE
PR	POINT REPAIR
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
PW	POTABLE WATER
PWF	WATER FAUCET
PROP.	PROPOSED
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RET	RETAINER
RJ	RESTRAINED JOINT
R.O.W.	RIGHT-OF-WAY
SD	STORM DRAIN
SHT	SHEET
SP	SIGNAL POLE
SPD	STANDARD PROCTOR DENSITY
SR	STATE ROUTE
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
SSTL	STAINLESS STEEL
STA	STATION
SWCB	SINGLE WING CATCH BASIN
TELECOM	TELECOMMUNICATION CONDUIT
TP	TELEPHONE POLE
TSB	TRAFFIC SIGNAL BOX
TS&V	TAPPING SLEEVE AND VALVE
TRAFCON	TRAFFIC SIGNAL COMM WIRE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
WM	WATER METER
WTR	WATER
W	WITH
'	FEET
"	INCHES

INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
G0.01	COVER SHEET
G0.02	NOTES
C1.01	SEWER LAYOUT PLAN
C1.02	EXISTING CONDITIONS
C2.01	LIFT STATION SECTIONS
C7.01	DETAILS
E1.01	ELECTRICAL PLAN

NOTES

GENERAL NOTES

- ALL DESIGN, CONSTRUCTION AND MATERIAL SHALL BE IN COMPLIANCE WITH THE SEWER ASSESSMENT AND REHABILITATION PROGRAM (SARP10) AND CITY OF MEMPHIS CONSTRUCTION SPECIFICATIONS AND STANDARDS.
- THE CONTRACTOR SHALL NOT ENTER UPON, WORK UPON NOR CAUSE DAMAGE TO ANY ADJACENT PROPERTIES WITHOUT PRIOR PERMISSION FROM SAID PROPERTY OWNER.
- GRADING AND DRAINAGE: FINISH GRADE SHALL BE SLOPED FOR POSITIVE DRAINAGE.
- PROPERTY LINES SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. GRADING, CLEARING, AND THE ERECTION OR REMOVAL OF FENCES ALONG PROPERTY LINES SHALL BE FULLY COORDINATED WITH ADJACENT PROPERTY OWNERS.
- ALL GRADING WORK SHALL BE PERFORMED IN SUCH A MANNER THAT ADJACENT PROPERTIES ARE NOT DAMAGED OR ADVERSELY AFFECTED.
- THE LOCATION OF ALL EXISTING UTILITIES SHALL BE PROPERLY VERIFIED PRIOR TO CONSTRUCTION. ALL WORK SHALL BE PERFORMED IN A MANNER TO ENSURE THAT EXISTING UTILITIES ARE NOT INTERFERED WITH OR DISRUPTED.
- THE CONTRACTOR IS TO INSTALL EROSION AND SEDIMENT CONTROL SYSTEMS AND STRUCTURES AS NECESSARY TO PREVENT SEDIMENT LADEN WATER FROM LEAVING THE SITE.
- CONTRACTOR IS RESPONSIBLE FOR AND SHALL PAY FOR ALL SURVEY LAYOUT AND STAKING.

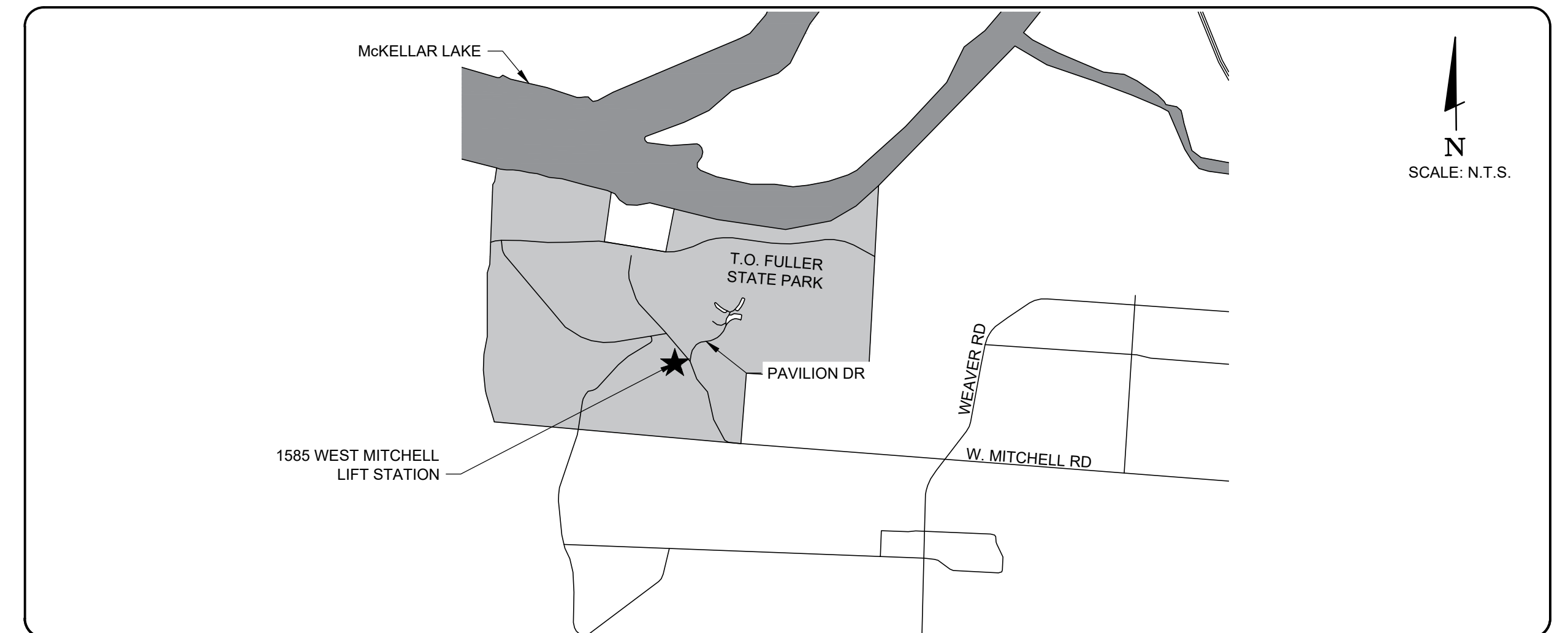
CITY OF MEMPHIS TYPICAL CONSTRUCTION NOTES

- LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND ARE NOT NECESSARILY ALL THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND/OR UNDERGROUND STRUCTURES PRIOR TO THE INITIATION OF ANY CONSTRUCTION. CONTRACTOR SHALL ALSO ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN CONSTRUCTION PERIMETERS. FOR SITE LOCATIONS OF EXISTING UTILITIES INVOLVING M.L.G.&W., SOUTH CENTRAL BELL, AND/OR TEXAS GAS COMPANY, PLEASE CALL 1-800-351-1111. FOR SEWER SERVICE LOCATIONS, CALL 901-636-8025.
- CONTRACTOR SHALL ENSURE UNINTERRUPTED SEWER SERVICE ON EXISTING SEWER AND SERVICE CONNECTIONS BY PROVIDING AMPLE TEMPORARY WASTEWATER PUMPING AND/OR BYPASSING.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES.
- CONTRACTOR SHALL NOTIFY THE SARP10 CONSTRUCTION MANAGER A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION.
- ALL AREAS IN CUT OR FILL WHERE VEGETATION HAS BEEN REMOVED SHALL BE SEEDED, MULCHED, FERTILIZED, AND/OR SODDED AS REQUIRED TO PREVENT EROSION.
- THE CONTRACTOR SHALL VERIFY EXISTING DATA AND REPORT ANY SIGNIFICANT DISCREPANCIES TO THE ENGINEER.
- ALL SANITARY SEWER TO BE CONSTRUCTED AS PER CITY OF MEMPHIS STANDARD CONSTRUCTION SPECIFICATIONS. SANITARY SEWER SERVICE CONNECTIONS TO BE INSTALLED AS PER CITY OF MEMPHIS STANDARD SST-16.
- ALL SEWER MANHOLE LIDS IN OPEN AREAS ARE TO BE CONSTRUCTED 1.5' ABOVE PROPOSED GRADE. IN BACKYARDS, MANHOLE LIDS ARE TO BE 1.5' ABOVE INITIAL GRADE, 0.5' ABOVE FINAL GRADE.
- ALL SANITARY SEWER, INCLUDING SERVICE CONNECTIONS, WHICH HAS LESS THAN 1.5' CLEARANCE (OUTSIDE OF PIPES) WITH DRAINAGE OR IN FILLED AREAS SHALL BE CLASS 50 D.I.P. OR CONCRETE ENCASED, 10' MINIMUM BOTH SIDES OF CROSSING. ALL DUCTILE IRON PIPE (D.I.P.) SHALL BE POLYETHYLENE LINED OR SHALL BE TREATED WITH PROTECTO 401 OR APPROVED EQUIVALENT.
- THE CITY OF MEMPHIS SHALL HAVE INGRESS/EGRESS RIGHTS TO USE PRIVATE DRIVES AND YARDS FOR THE PURPOSE OF MAINTAINING ALL PUBLIC SEWER LINES AND SHALL BEAR NO RESPONSIBILITY FOR THE MAINTENANCE OF SAID PRIVATE DRIVES AND YARDS.
- NO TREES, SHRUBS, PERMANENT STRUCTURES, OR OTHER UTILITIES (EXCEPT FOR CROSSINGS) WILL BE ALLOWED WITHIN SANITARY SEWER EASEMENT. NO OTHER UTILITIES OR SERVICES MAY OCCUPY SANITARY SEWER EASEMENTS IN PRIVATE DRIVES AND YARDS EXCEPT FOR CROSSINGS.
- ALL SANITARY SEWER MANHOLES IN REVERSE CROWN STREETS, ALLEYS, OR DRIVES (PUBLIC OR PRIVATE) SHALL BE PROVIDED WITH GASKETS AND PLUGS FOR PICK HOLES TO PREVENT DRAINAGE INFLOW INTO SEWER SYSTEM.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE AND EFFECTIVE EROSION CONTROL AS NECESSARY TO PREVENT ANY SILTATION INTO EXISTING DRAINAGE SYSTEM AND/OR ADJACENT PROPERTIES.

LEGEND

EXISTING	NEW	
⊕	⊕	CAP OR PLUG
⊕	⊕	SANITARY SEWER MANHOLE
⊕	⊕	STORM SEWER MANHOLE
⊕	CO ⊕	CLEANOUT
⊕	⊕	YARD HYDRANT
⊕	⊕	FIRE HYDRANT
⊕	⊕	REDUCER
⊕	⊕	SOLID SLEEVE OR HDPE MJ ADAPTER
⊕	⊕	WATER VALVE
⊕	⊕	WATER METER
⊕	⊕	AIR VALVE MH OR LINE STOP VALVE
— FM —	— FM —	FORCE MAIN
— G —	— G —	GAS LINE
— SD —	— SD —	STORM SEWER LINE
— SS —	— SS —	SANITARY SEWER LINE
— W —	— W —	WATER MAIN
--- 350 ---	--- 350 ---	CONTOUR
— X —	— X —	FENCE
⊕	⊕	POWER/TELEPHONE POLE
⊕	⊕	TREE
---	---	CENTERLINE
---	---	PROPERTY BOUNDARY LINE
---	---	RIGHT-OF-WAY
---	---	EASEMENT
---	---	USACE DREDGE LIMITS

VICINITY MAP



FLOOD HAZARD NOTE:
THE SUBJECT PROPERTY IS LOCATED IN A SPECIAL FLOOD HAZARD AREA ZONE "X" (MINIMAL AREAS OUTSIDE THE 1-PERCENT AND 0.2 PERCENT ANNUAL CHANCE FLOOD EVENT) AS PER FLOOD LINES ESTABLISHED BY THE FEDERAL MANAGEMENT AGENCY AS SHOWN ON FLOOD INSURANCE RATE MAP NUMBER 47157C0415F, DATED SEPTEMBER 28, 2007.

BENCHMARK NOTE:
CITY OF MEMPHIS BENCHMARK NUMBER 529 - MITCHELL RD. & PLANT RD.; CITY MONUMENT IS LOCATED IN T.O. FULLER STATE PARK AT THE S.W. COR. OF INTERSECTION, 66' S. OF CENTERLINE OF MITCHELL, 76' W. OF CENTERLINE OF PLANT RD., 51' SW OF P/POLE #101005, 154' SW OF A SMH AT INTERSECTION, ELEVATION: 275.98

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE
0	ISSUED FOR CONST.	7/28/2021

SEWER BASIN: NS 01

G0.02

DIVISION OF ENGINEERING

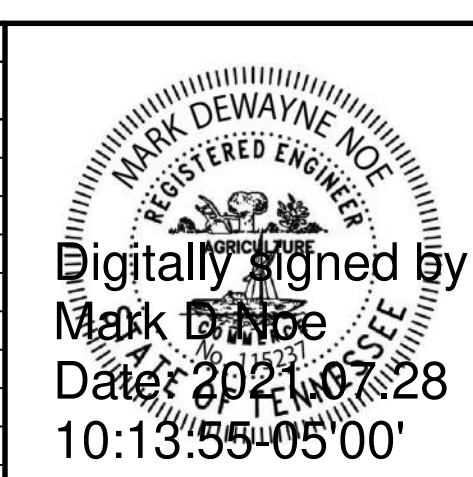
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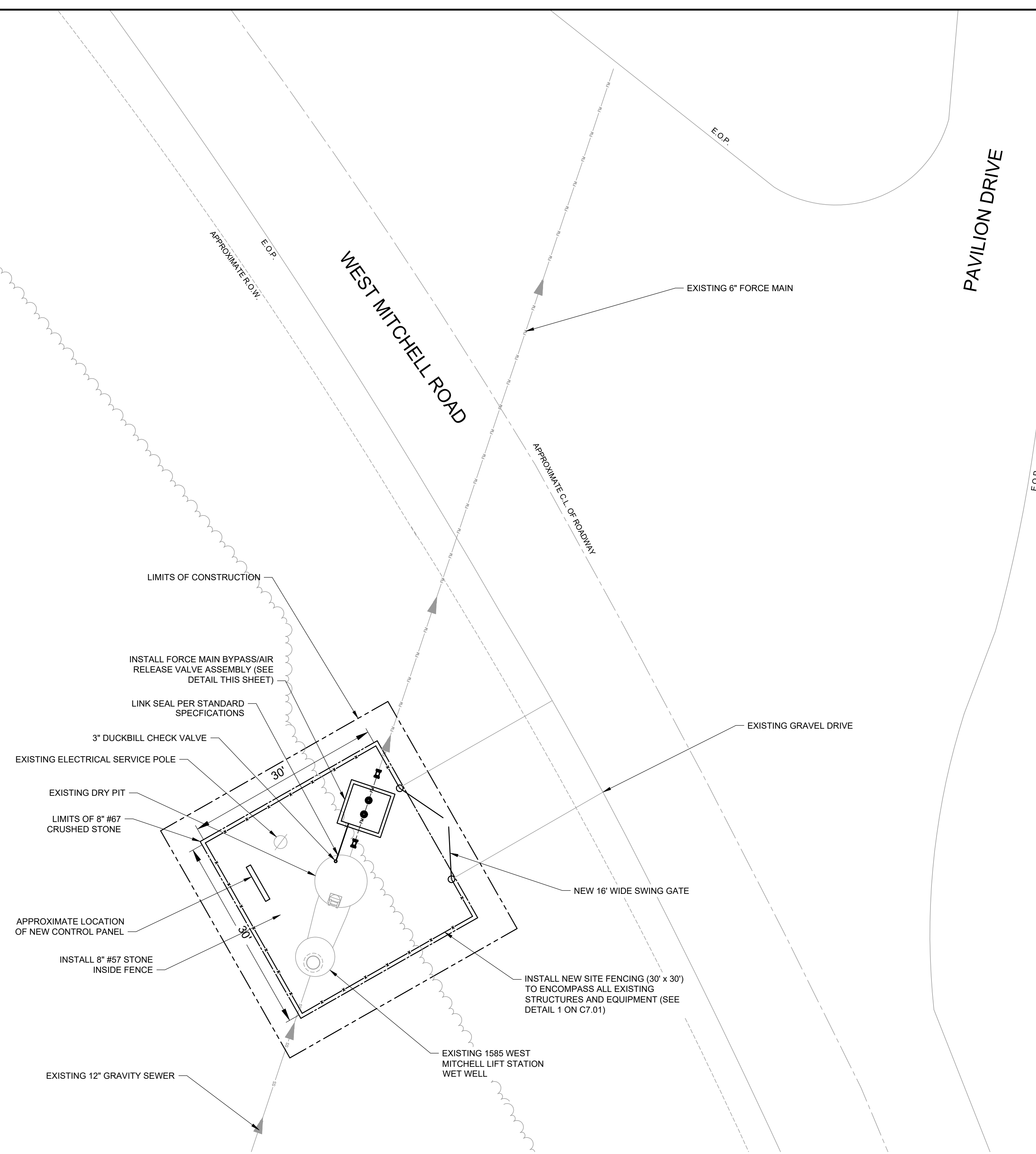
LOCATION: 1585 WEST MITCHELL LIFT STATION
MEMPHIS, TENNESSEE

SURVEY: DATE: PROJECT NO.: 36592-04
DESIGN BY: BARGE DATE: 7/2021 SCALE: NONE
REVIEWED:

DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

Lift Station Rehab Design Group 2-B
MEMPHIS, TENNESSEE
ENGINEER: BARGE DESIGN SOLUTIONS, INC.

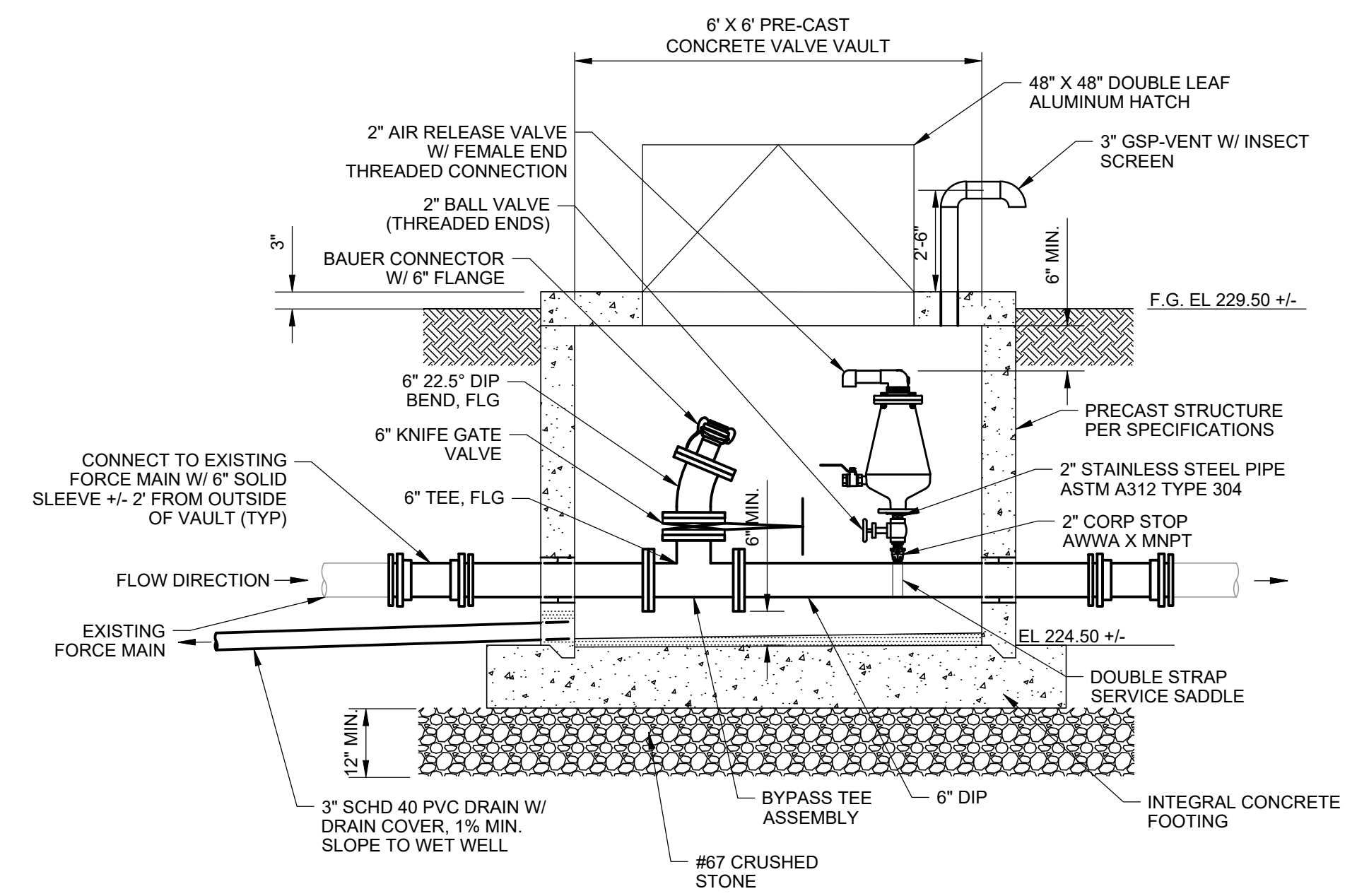
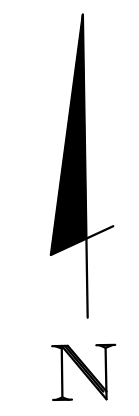




SEWER LAYOUT PLAN

SCALE: 1" = 5'-0"

0 2.5' 5' 10'



FM BYPASS/AIR RELEASE ASSEMBLY

SCALE: 1/2" = 1'-0"

APPROVED FOR CONSTRUCTION

THE DOCUMENT BEARING THIS STAMP HAS BEEN RECEIVED AND REVIEWED BY THE CITY OF MEMPHIS DIVISION OF ENGINEERING UNDER AUTHORITY DELEGATED BY THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF WATER POLLUTION CONTROL. IT IS HEREBY APPROVED FOR CONSTRUCTION BY THE CITY ENGINEER AS EVIDENCED BY HIS SIGNATURE IN THE TITLE BLOCK BELOW.

APPROVAL EXPIRES 1 YEAR FROM APPROVAL DATE BELOW. THIS APPROVAL SHALL NOT BE CONSTRUED AS CREATING A PRESUMPTION OF CORRECT OPERATION OR AS WARRANTING BY THE CITY ENGINEER THAT THE APPROVED FACILITIES WILL REACH THE DESIRED GOALS.

FLOOD HAZARD NOTE:
THE SUBJECT PROPERTY IS LOCATED IN A SPECIAL FLOOD HAZARD AREA ZONE "X" (MINIMAL AREAS OUTSIDE THE 1-PERCENT AND 0.2 PERCENT ANNUAL CHANCE FLOOD EVENT) AS PER FLOOD LINES ESTABLISHED BY THE FEDERAL MANAGEMENT AGENCY AS SHOWN ON FLOOD INSURANCE RATE MAP NUMBER 47157C0415F, DATED SEPTEMBER 28, 2007.

BENCHMARK NOTE:
CITY OF MEMPHIS BENCHMARK NUMBER 529 - MITCHELL RD. & PLANT RD.: CITY MONUMENT IS LOCATED IN T.O. FULLER STATE PARK AT THE S.W. COR. OF INTERSECTION, 66' S. OF CENTERLINE OF MITCHELL, 76' W. OF CENTERLINE OF PLANT RD., 51' SW OF P/POLE #101005, 154' SW OF A SMH AT INTERSECTION, ELEVATION: 275.98

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE
0	ISSUED FOR CONST.	7/28/2021

Mark Dwayne Noe
REGISTERED ENGINEER
Digitally signed by Mark Dwayne Noe
Date: 2021.07.28 10:14:39 -0500

SEWER BASIN: NS 01 C1.01

DIVISION OF ENGINEERING
SEWER LAYOUT PLAN
LOCATION: 1585 WEST MITCHELL LIFT STATION
MEMPHIS, TENNESSEE

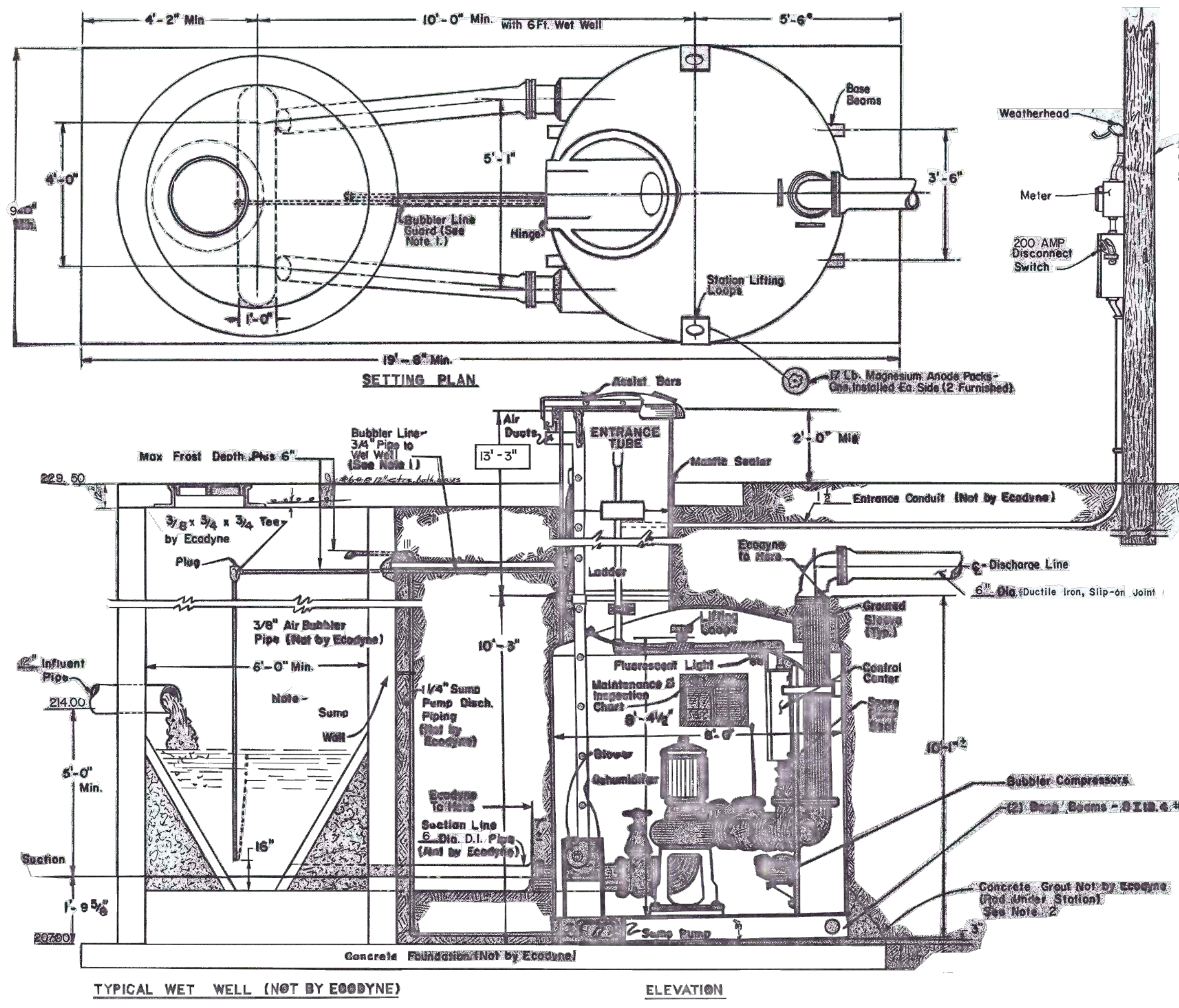
SURVEY: DATE: PROJECT NO.: 36592-04
DESIGN BY: BARGE DATE: 7/2021 SCALE: 1" = 5'
REVIEWED:

DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

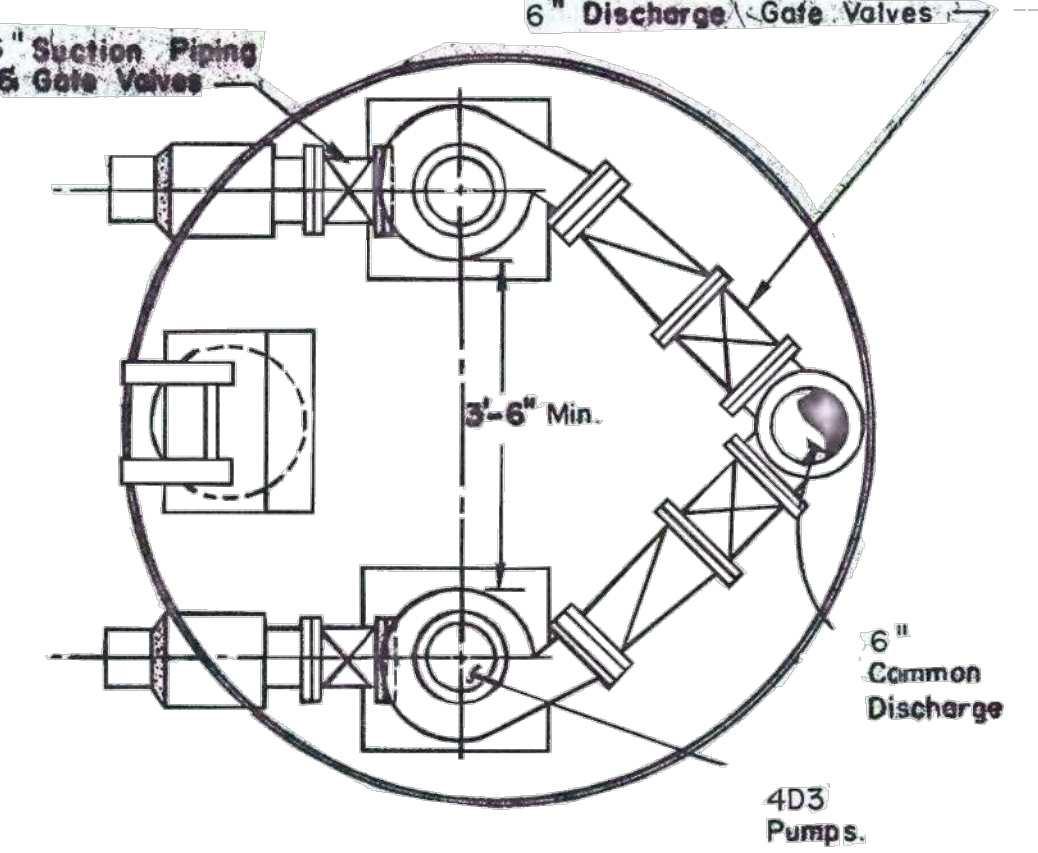


Lift Station Rehab Design Group 2-B
MEMPHIS, TENNESSEE
DEVELOPER: SARP10
ENGINEER: BARGE DESIGN SOLUTIONS, INC.

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- Notes-**
1. Bubbler Line Guard (L-3"x3") Not Furnished by Ecodyne.
 2. See Engineer's Plans & Specifications for Details of Wet Well, Concrete Foundation Grout under Station, and Electrical Service.
 3. 6" Water Connection is required.
 4. Minimum Pump Horsepower - 40 H.P.
 5. Minimum Pump Efficiency - 72%
 6. Contractor shall install in the Pumping Station a monitoring system.
 7. Pump Rate - 600 g.p.m., Each Pump



- NOTES:**
1. RECORD DRAWINGS DRAWN BY THE CITY OF MEMPHIS DEPARTMENT OF ENGINEERING - BUREAU OF SEWER DESIGN, TITLED 'BOXTOWN AREA SEWERS PHASE 5A' AND DATED 1978.

EXISTING LIFT STATION
N.T.S.

FLOOD HAZARD NOTE:
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REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE
0	ISSUED FOR CONST.	7/28/2021

Digitally signed by Mark Deane
Date: 2021.07.28 10:14:17 -0500

SEWER BASIN: NS 01 C1.02

DIVISION OF ENGINEERING
EXISTING CONDITIONS
LOCATION: 1585 WEST MITCHELL LIFT STATION
MEMPHIS, TENNESSEE

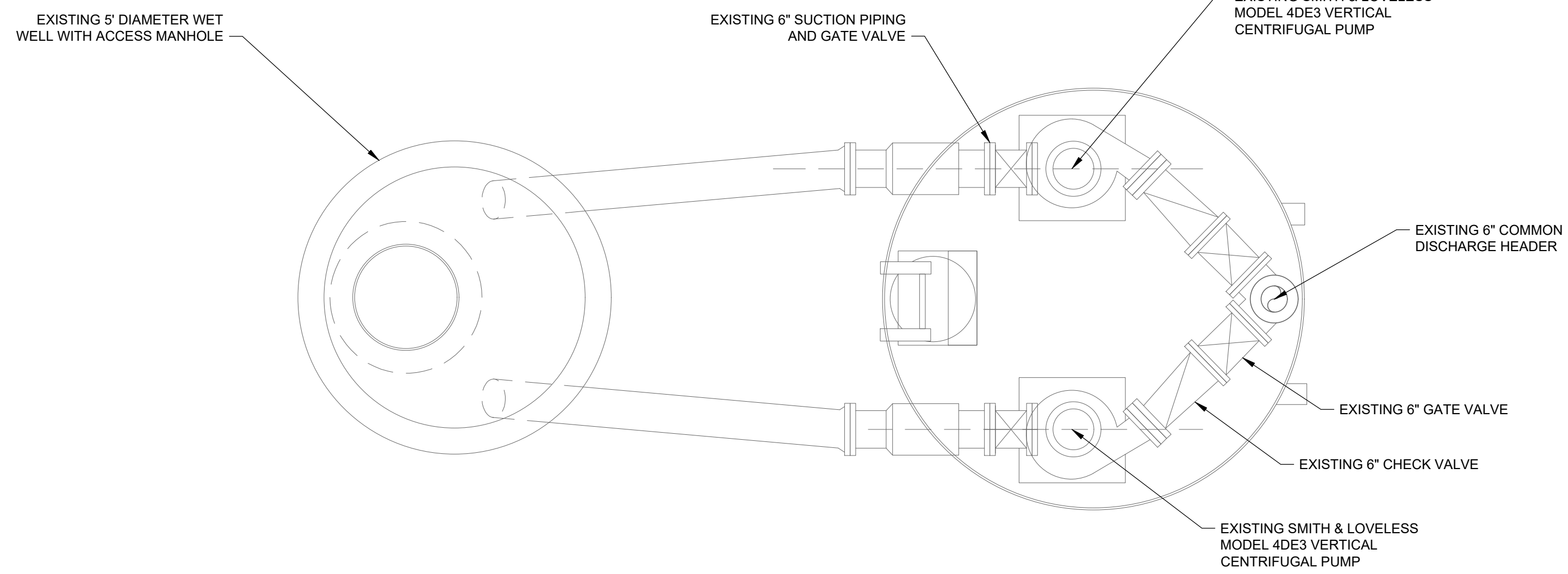
SURVEY: DATE: PROJECT NO.: 36592-04
DESIGN BY: BARGE DATE: 7/2021 SCALE: N.T.S.
REVIEWED:



Lift Station Rehab Design Group 2-B
MEMPHIS, TENNESSEE
DEVELOPER: SARPIO
ENGINEER: BARGE DESIGN SOLUTIONS, INC.

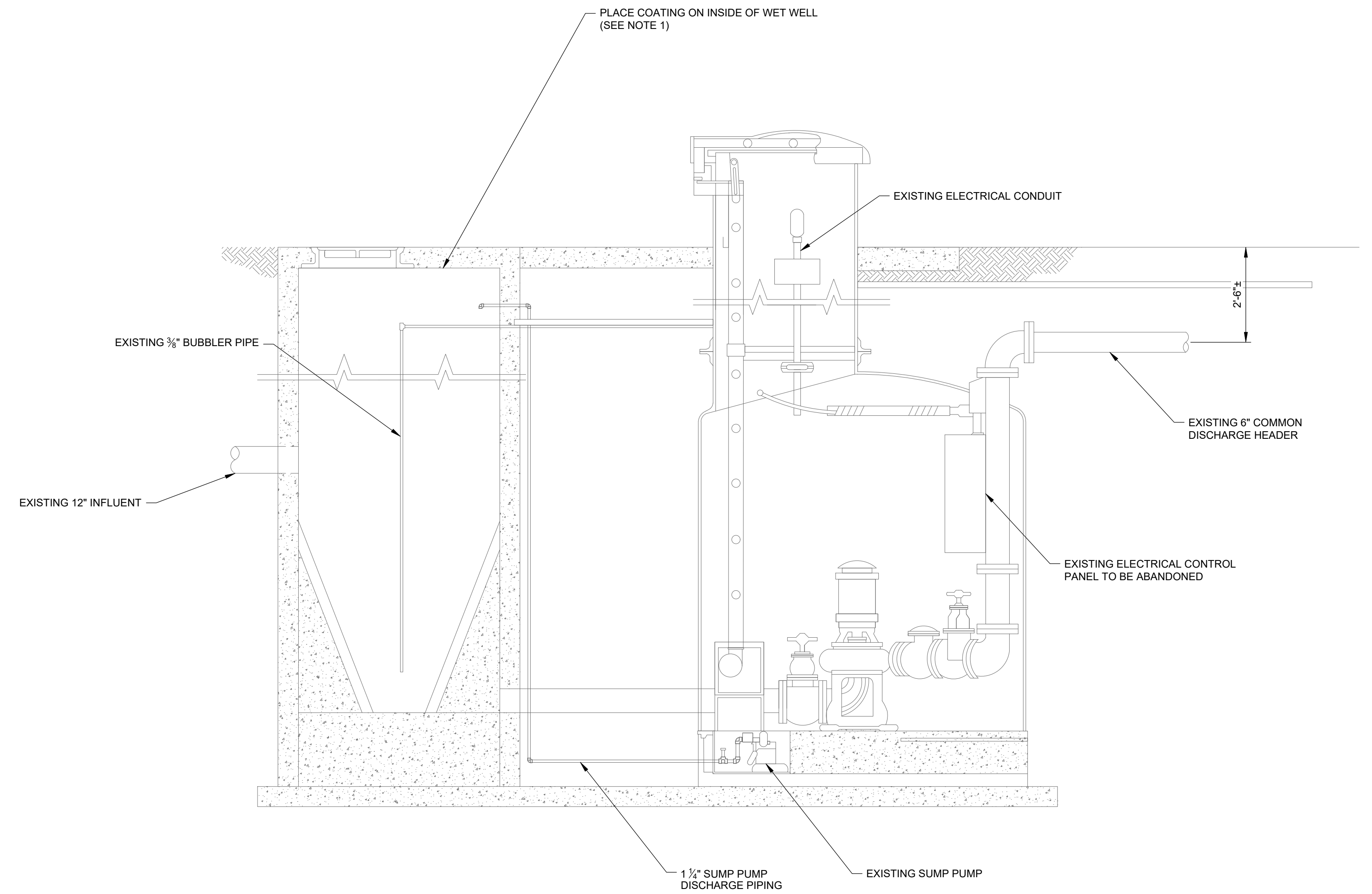
DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

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LIFT STATION PLAN

SCALE: 1/2" = 1'-0"



LIFT STATION SECTION

SCALE: 1/2" = 1'-0"

NOTES:

- CONTRACTOR SHALL APPLY CITY OF MEMPHIS APPROVED COATING SYSTEM TO ALL INTERIOR SURFACES OF THE WET WELL PER STANDARD SPECIFICATIONS.
- EXISTING PUMP DATA COLLECTED FROM THE "FINAL ASSESSMENT REPORT FOR 4486 WINDOW - SARP10 LIFT STATION ASSESSMENT PROJECT FOR THE CITY OF MEMPHIS" DATED APRIL 6, 2019.

PUMP 1/2 DATA:

- MANUFACTURER: SMITH & LOVELESS
- TYPE: VERTICAL CENTRIFUGAL
- CAPACITY: APPROX. 450 GPM @ 119 FT OF HEAD (IMPELLER DIAMETER SHAVED FROM 12" TO 11"). RATED CAPACITY IS APPROX. 600 GPM @ 134 FT OF HEAD.
- MODEL: 4D3
- MOTOR HP: 40

FLOOD HAZARD NOTE:
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REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE
0	ISSUED FOR CONST.	7/28/2021

Digitally signed by Mark D. DeBore
 Date: 2021.07.28 10:14:29 -0500'

SEWER BASIN: NS 01 C2.01

DIVISION OF ENGINEERING
LIFT STATION PLAN AND SECTION

LOCATION: 1585 WEST MITCHELL LIFT STATION
MEMPHIS, TENNESSEE

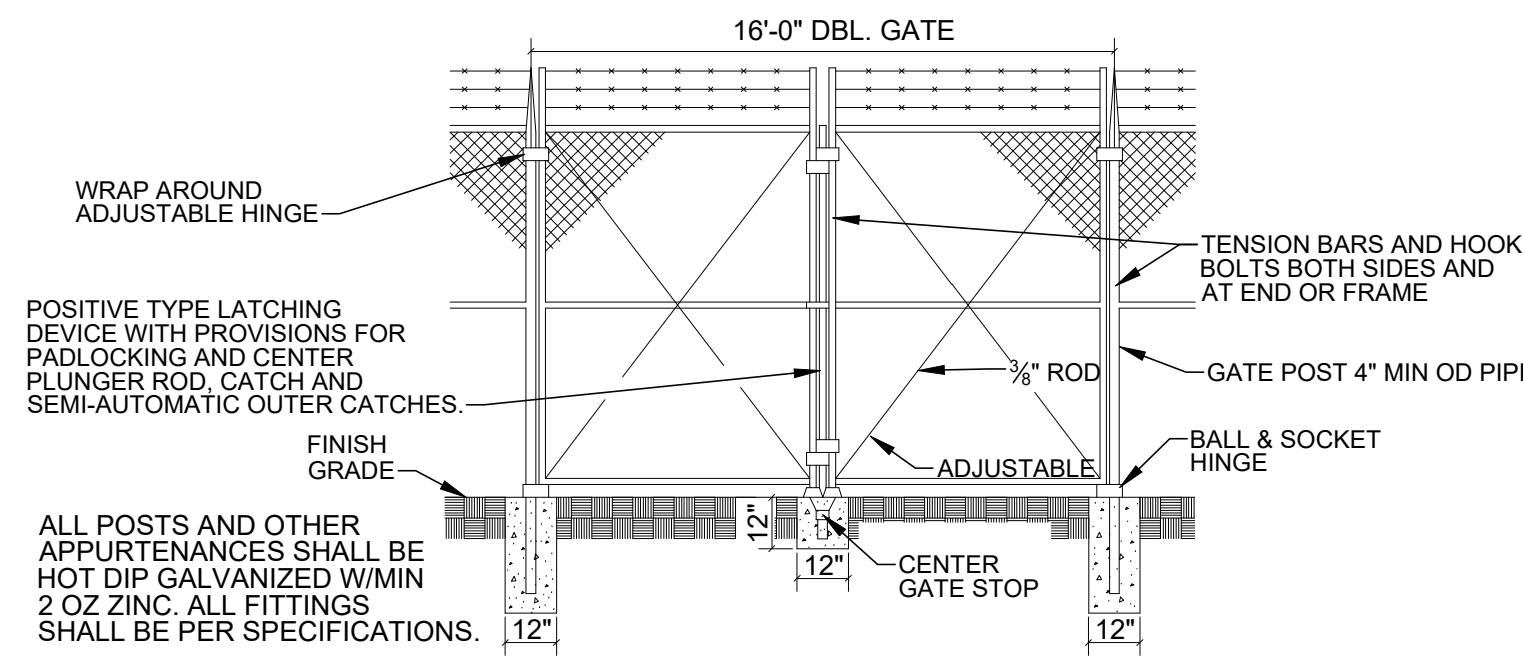
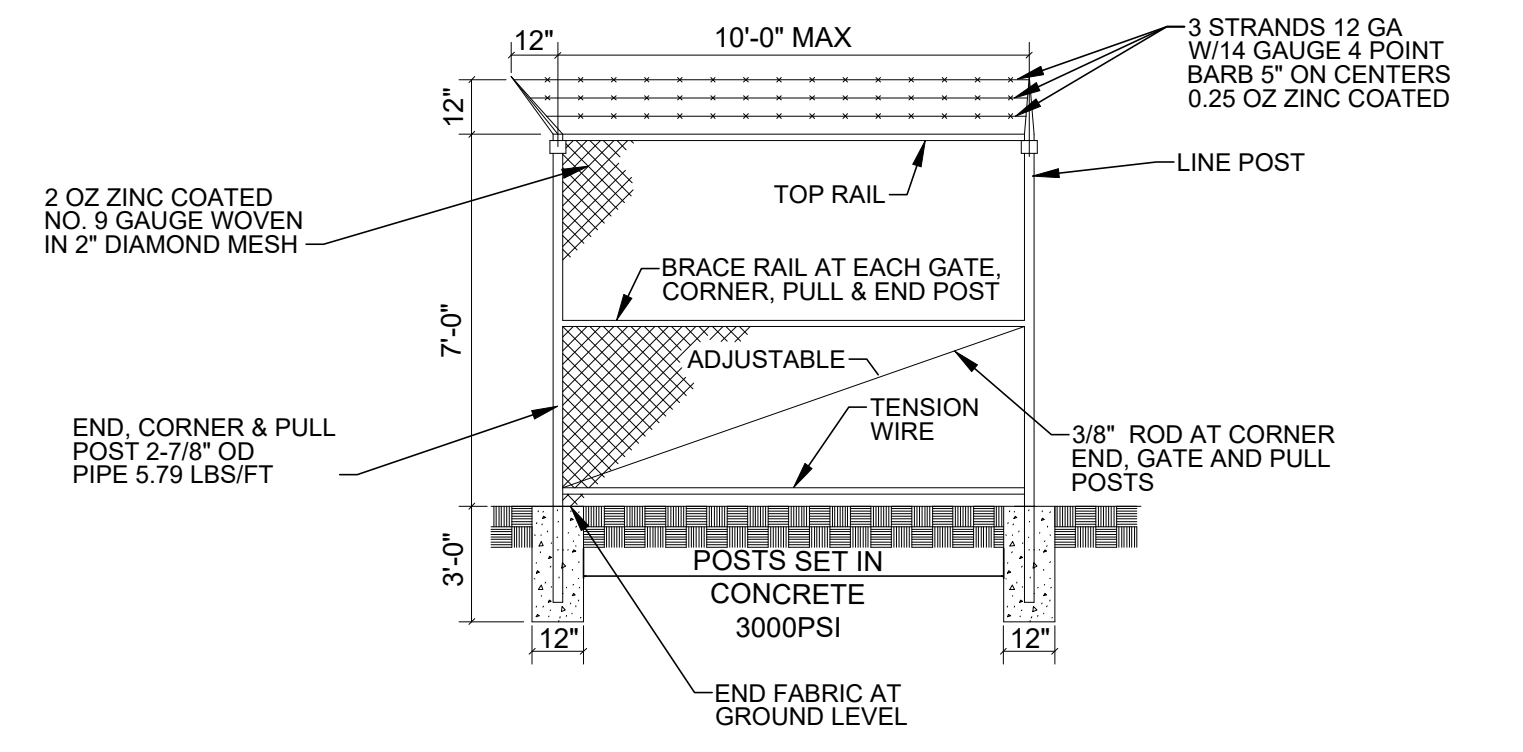
SURVEY: DESIGN BY: BARGE DATE: 7/2021 PROJECT NO.: 36592-04 SCALE: REVIEWED:

DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE



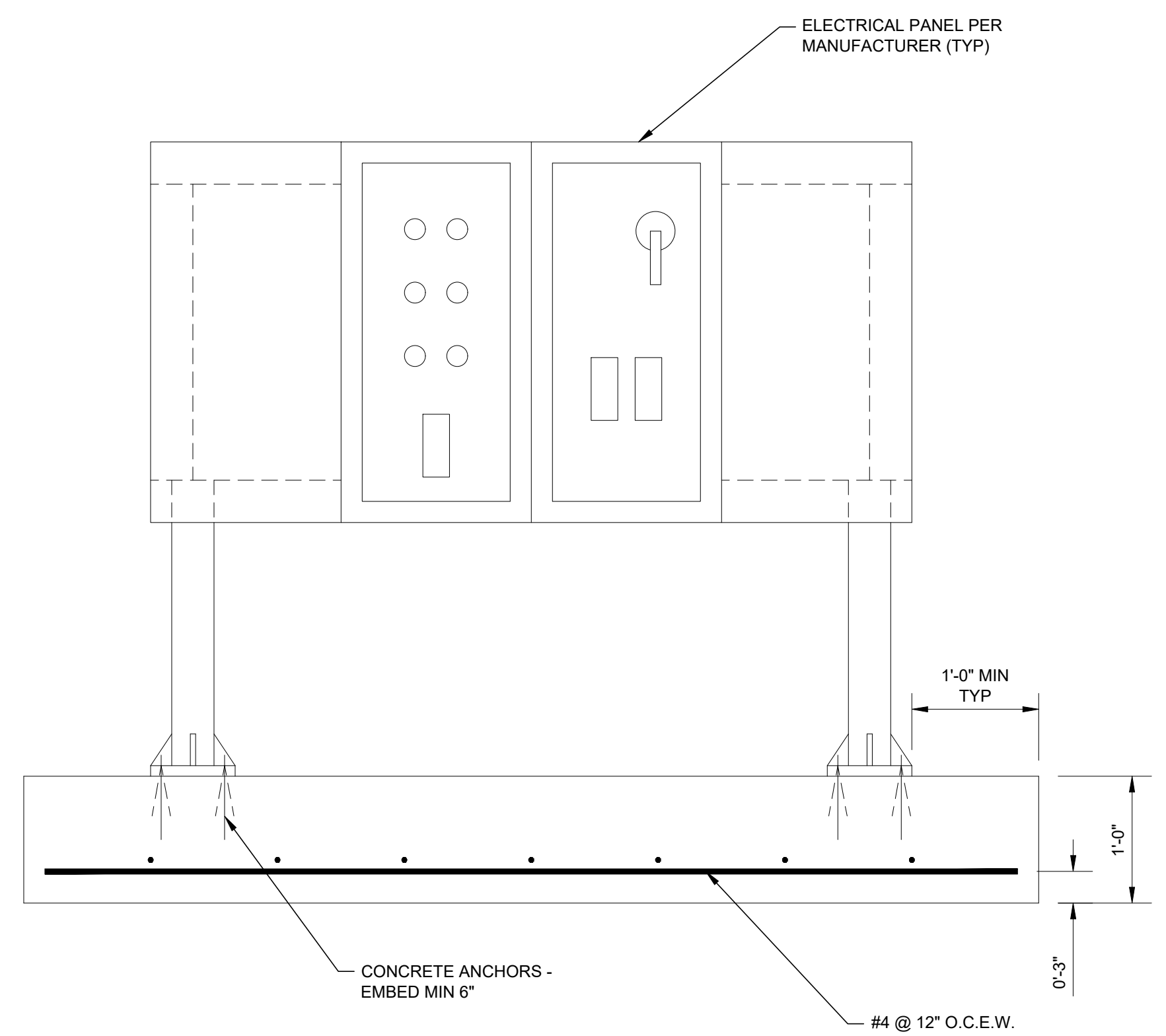
Lift Station Rehab Design Group 2-B
MEMPHIS, TENNESSEE
DEVELOPER: SARP10
ENGINEER: BARGE DESIGN SOLUTIONS, INC.

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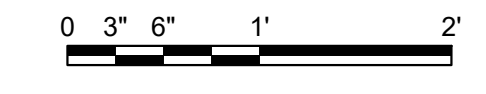


1 SITE SECURITY FENCING
C7.01 SCALE: NONE

NOTES:
1. EXTEND SLAB 12" FROM THE ENDS, FACE, AND BACK OF THE CONTROL PANEL. SLAB DEPTH SHOULD BE 12". ADD A LAYER OF #4 REBAR 3" FROM THE BOTTOM AT 12" O.C. E.W. ANCHOR BOLTS SHALL BE EMBEDDED A MINIMUM OF 6".



2 CONTROL PANEL W/ MOUNTING SLAB
C7.01 1" = 1'-0"



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REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE
0	ISSUED FOR CONST.	7/28/2021

MARK DEWAYNE NOBLE
REGISTERED ENGINEER
No. 11000
Date: 7/28/2021
10:14:07-0500'

SEWER BASIN: NS 01 C7.01

DIVISION OF ENGINEERING

DETAILS

LOCATION: 1585 WEST MITCHELL LIFT STATION
MEMPHIS, TENNESSEE

SURVEY: DATE: PROJECT NO.: 36592-04
DESIGN BY: BARGE DATE: 7/2021 SCALE: NONE
REVIEWED:

DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

Lift Station Rehab Design Group 2-B
MEMPHIS, TENNESSEE
DEVELOPER: SARPHO
ENGINEER: BARGE DESIGN SOLUTIONS, INC.

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PUMP STATION METER AND DISCONNECT



CONDUIT BROKEN AT PIT ENTRANCE



PUMP STATION CONTROL PANEL



GROUNDING CLAMP CONNECTION



RUSTED HOLE IN METER BASE



FUSES IN DISCONNECT SWITCH



CONDUIT HAS COME LOOSE FROM DISCONNECT

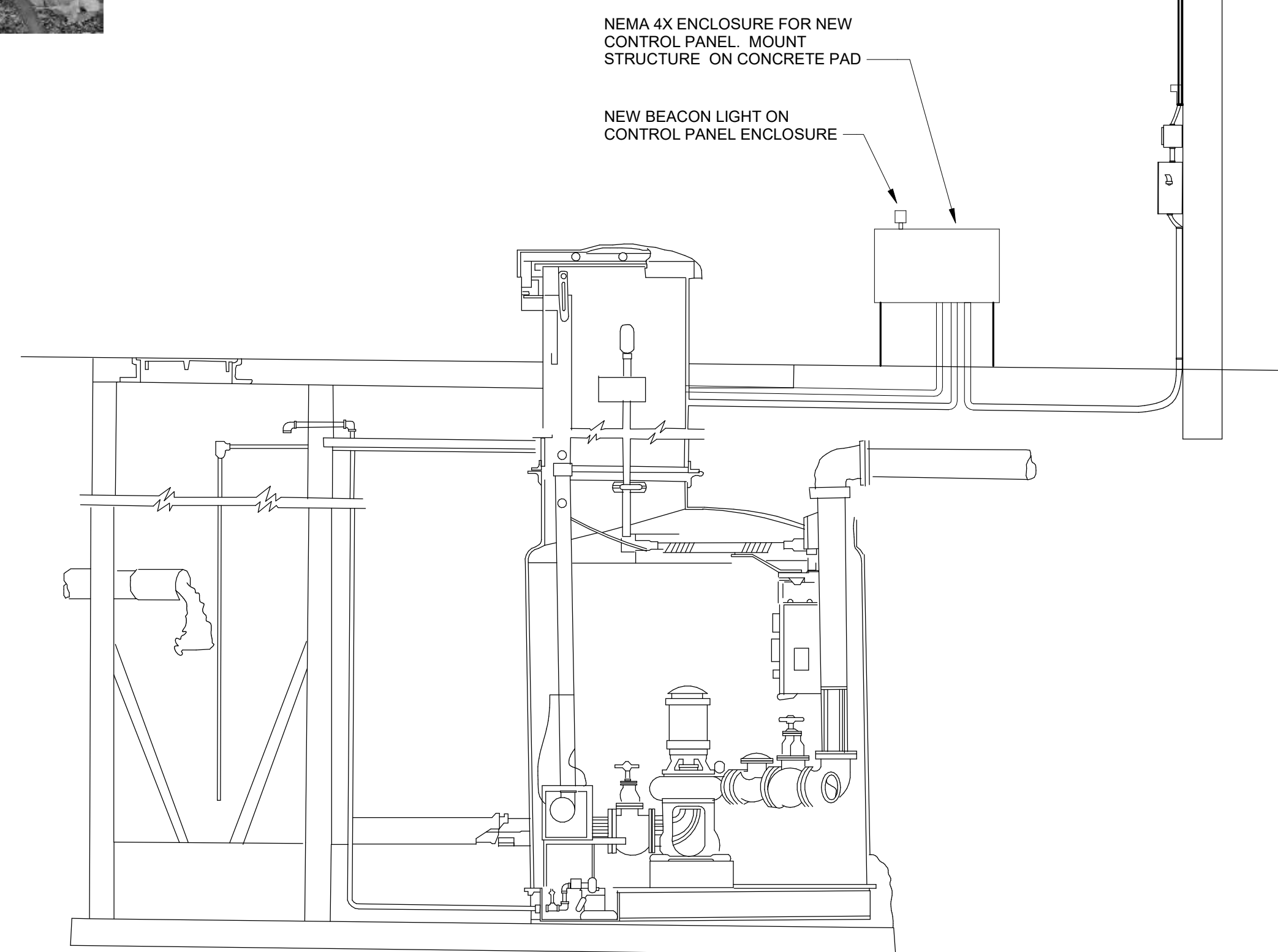
CODE ANALYSIS - INTERNATIONAL BUILDING CODE 2015

CODE COMMENTS

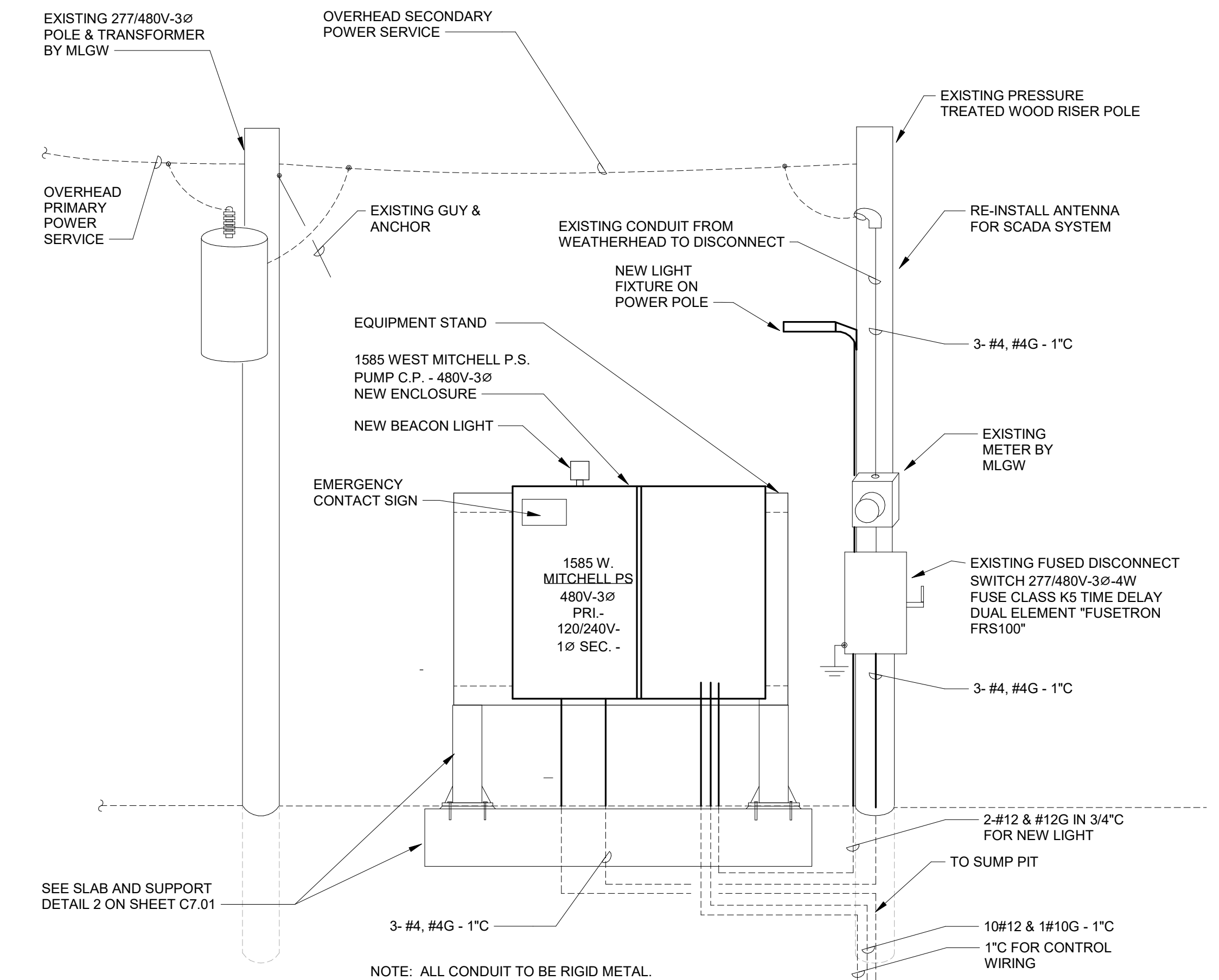
JURISDICTION	
Memphis and Shelby County Construction Code Enforcement	
APPLICABLE CODES	
2015 International Building Code with Local Amendments	
2015 International Existing Building Code with Local Amendments	
2015 International Residential Code with Local Amendments	
2014 National Electrical Code	
2018 Joint Electrical Code	
2015 International Mechanical Code with Local Amendments	
2015 International Fuel Gas Code with Local Amendments	
2015 International Plumbing Code with Local Amendments	
2015 International Energy Conservation Code with Local Amendments	
2009 ICC A117.1 Accessibility and Useable Buildings and Facilities (by reference)	
2013 ASME 17.1 Safety Code for Elevators and Escalators (by reference)	

GENERAL PROJECT NOTES:

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE, AND ALL OTHER APPLICABLE STANDARDS AND REGULATIONS ENFORCED BY THE AUTHORITY HAVING JURISDICTION.
- ALL ABOVE GROUND EXTERIOR CONDUIT SHALL BE GALVANIZED RIGID STEEL CONDUIT WITH CORROSION RESISTANT FITTINGS, CLAMPS AND SUPPORT.
- IN THE EVENT OF CONFLICTS BETWEEN THE DRAWINGS, SPECIFICATIONS, CODES AND REGULATIONS, NOTIFY THE ENGINEER OF RECORD FOR HIS OPINION PRIOR TO INSTALLATION.
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL AND TO THE ENGINEER FOR REVIEW.
- SMACNA SEISMIC RESTRAINT MANUAL, THIRD EDITION 2008, OR LATEST REVISION MAY BE USED AS A GUIDE FOR GENERAL SEISMIC SUPPORT DETAIL AND SUPPORT SPACING RECOMMENDATIONS.
- WHILE EFFORT HAS BEEN MADE TO IDENTIFY EXISTING CIRCUITS THAT ARE TO BE REMOVED OR REPLACED, THE INFORMATION MAY NOT BE ACCURATE.
- ELECTRICAL CONTRACTOR SHALL VERIFY VOLTAGE AND AMP DRAW FOR ANY NEW EQUIPMENT.
- ALL ELECTRICAL GEAR SHALL BE MOVED FROM THE PIT TO ABOVE GROUND. VERIFY NEW CONTROL PANEL WORKS WITH ANY REMAINING EQUIPMENT OR CONTROLS IN THE PIT.
- THE MAIN CONTROL PANEL IS FED WITH AN EXISTING 480V 3PH 60A FUSED DISCONNECT ABOVE GRADE. ALL AUXILIARY EQUIPMENT IS CURRENTLY FED FROM THE CONTROL PANEL IN THE PIT. EXTEND POWER TO LIGHT, SUMP PUMP, BLOWER/DEHUMIDIFIER, & AIR COMPRESSOR USING ISO CABLE FROM THE NEW ENCLOSURE ABOVE GRADE TO THE EQUIPMENT.
- USE KELLUMS TYPE WIRE MESH HANGERS TO SUPPORT ALL CORDS COMING FROM THE PUMP STATION CEILING. PROVIDE CLIPS ON THE WALL TO KEEP CORDS CLEAR OF SERVICE AREA.
- REPLACE FUSES IN DISCONNECT.
- REPLACE GROUND CLAMP AND TIGHTEN GROUND WIRES.
- REPLACE RACEWAY (CONDUIT AND FITTINGS) FOR BOTH POWER AND CONTROLS.
- REPAIR WEATHERHEAD ON POLE. SECURE CONDUIT TO POLE.
- REPLACE EXISTING ELECTRIC PANEL COMPONENTS THAT ARE MISSING SUCH AS KNOCK OUTS AND SECURE ANY EXPOSED WIRING.
- REPLACE METER BASE PANEL.
- INSTALL RED FLASHING BEACON LIGHT ON TOP OF CONTROL PANEL ENCLOSURE CONNECTED TO ALARM CONTACTS ON THE NEW CONTROL PANEL FOR HIGH LEVEL FLOAT. INSTALL EMERGENCY CONTACT SIGN ON THE ENCLOSURE STATING, "IF LIGHT IS BLINKING, PLEASE CALL 901-521-0186".



① PUMP ELECTRICAL PLAN
N.T.S.

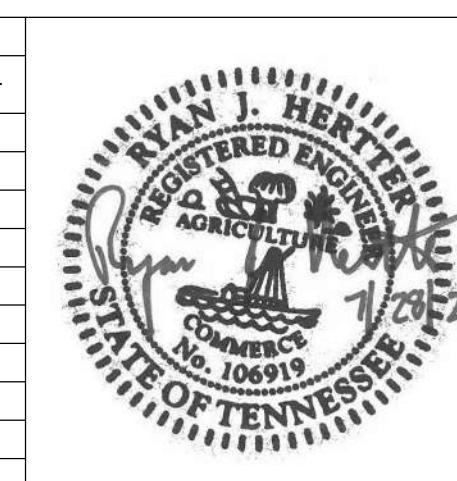


② NEW DRAWING 1585 WEST MITCHELL PUMP STATION SINGLE
N.T.S.

FLOOD HAZARD NOTE:
THE SUBJECT PROPERTY IS LOCATED IN A SPECIAL FLOOD HAZARD AREA ZONE "X" (MINIMAL AREAS OUTSIDE THE 1 PERCENT AND 0.2 PERCENT ANNUAL CHANCE FLOOD LINES ESTABLISHED BY THE FEDERAL MANAGEMENT AGENCY AS SHOWN ON FLOOD INSURANCE RATE MAP NUMBER 47157C0270F, DATED SEPTEMBER 28, 2007.

BENCHMARK NOTE:
CITY OF MEMPHIS BENCHMARK NUMBER 529 - MITCHELL RD. & PLANT RD.: CITY MONUMENT IS LOCATED IN T.O. FULLER STATE PARK AT THE S.W. COR. OF INTERSECTION, 66' S. OF CENTERLINE OF MITCHELL, 76' W. OF CENTERLINE OF PLANT RD., 51' SW OF P/POLE #101005, 154' SW OF A SMH AT INTERSECTION, ELEVATION: 275.98

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE



SEWER BASIN: NS 01

E1.01

DIVISION OF ENGINEERING
ELECTRICAL PLAN
LOCATION: 1585 WEST MITCHELL LIFT STATION
MEMPHIS, TENNESSEE

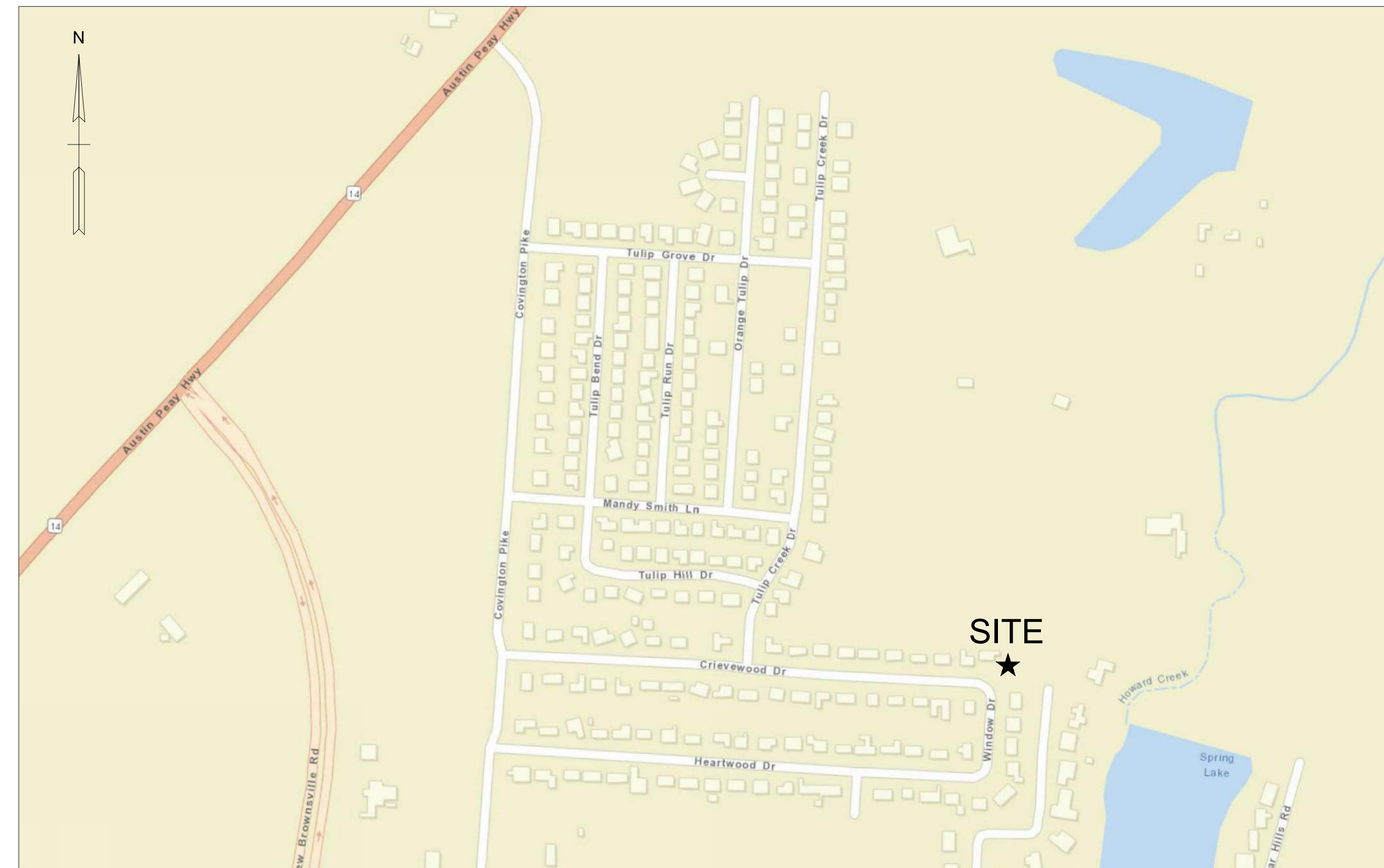
SURVEY: DATE: PROJECT NO.:
DESIGN BY: BARGE DATE: 9/2020 SCALE: N.T.S.
REVIEWED:

DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE



Lift Station Rehab Design Group 2-B
MEMPHIS, TENNESSEE
DEVELOPER: SARF 10
ENGINEER: BARGE DESIGN SOLUTIONS, INC.

4486 WINDOW LIFT STATION SEWER ASSESSMENT AND REHABILITATION PROGRAM (SARP10) MEMPHIS, TENNESSEE



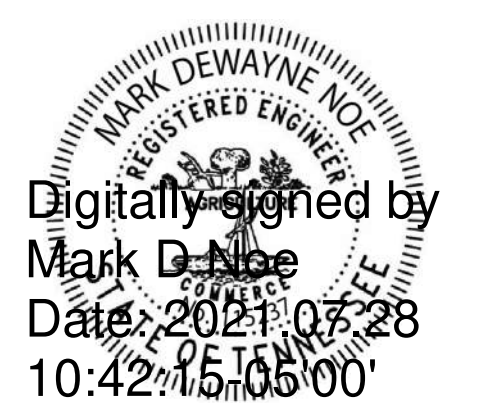
LOCATION MAP

NOT TO SCALE



60 Germantown Court // Suite 100 // Memphis, Tennessee 38018
PHONE (901) 755-7166 // FAX (901) 755-7844

CONSTRUCTION DOCUMENTS



Digitally signed by
Mark D. Nee
Date: 2021.07.28
10:42:15 -0500

G0.01

ABBREVIATIONS

Ø	DIAMETER
AFB	ABOVE FINISHED FLOOR
ALUM.	ALUMINUM
APPROX.	APPROXIMATE
BCB	BOTTOM CATCH BASIN
BOC	BACK OF CURB
BFP	BACKFLOW PREVENTOR
BFV	BUTTERFLY VALVE
CB	CATCH BASIN
CCTV	CLOSED CIRCUIT TELEVISION
CI	CURB INLET
CIPP	CURED-IN-PLACE PIPE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
CONC	CONCRETE
CONN	CONNECT
CONST.	CONSTRUCTION
CPLG.	COUPLING
CS	COMBINED SEWER
CU	COPPER
CV	CHECK VALVE
DB	DEED BOOK
DI	DROP INLET
DIP	DUCTILE IRON PIPE
DWCB	DOUBLE WING CATCH BASIN
DW	DRIVEWAY
ELEV.	ELEVATION
EXIST.	EXISTING
ELEC	ELECTRICAL SERVICE
EOI	END OF INFORMATION OR UNKNOWN TERMINATION POINT
EOP	EDGE OF PAVEMENT
FIP	FEMALE IRON PIPE
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FM	FORCE MAIN
GSP	GALVANIZED STEEL PIPE
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
HORZ	HORIZONTAL
HWY	HIGHWAY
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
INV	INVERT
LF	LINEAR FEET
MIN	MINIMUM
MIP	MALE IRON PIPE
MJ	MECHANICAL JOINT
MH	MANHOLE
MNPT	MALENATIONAL PIPE THREAD
N/F	NOW OR FORMERLY
NPW	NON POTABLE WATER
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
PG	PAGE
PP	POWER POLE
PR	POINT REPAIR
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
PW	POTABLE WATER
PWF	WATER FAUCET
PROP.	PROPOSED
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RET	RETAINER
RJ	RESTRAINED JOINT
R.O.W.	RIGHT-OF-WAY
SD	STORM DRAIN
SHT	SHEET
SP	SIGNAL POLE
SPD	STANDARD PROCTOR DENSITY
SR	STATE ROUTE
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
SSTL	STAINLESS STEEL
STA	STATION
SWCB	SINGLE WING CATCH BASIN
TELECOM	TELECOMMUNICATION CONDUIT
TP	TELEPHONE POLE
TSB	TRAFFIC SIGNAL BOX
TS&V	TAPPING SLEEVE AND VALVE
TRAFCON	TRAFFIC SIGNAL COMM WIRE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
WM	WATER METER
WTR	WATER
W	WITH
'	FEET
"	INCHES

INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
G0.01	COVER SHEET
G0.02	NOTES
C1.01	SEWER LAYOUT PLAN
C1.02	EXISTING CONDITIONS
C2.01	LIFT STATION SECTIONS
C7.01	DETAILS
E1.01	ELECTRICAL PLAN

NOTES

GENERAL NOTES

- ALL DESIGN, CONSTRUCTION AND MATERIAL SHALL BE IN COMPLIANCE WITH THE SEWER ASSESSMENT AND REHABILITATION PROGRAM (SARP10) AND CITY OF MEMPHIS CONSTRUCTION SPECIFICATIONS AND STANDARDS.
- THE CONTRACTOR SHALL NOT ENTER UPON, WORK UPON NOR CAUSE DAMAGE TO ANY ADJACENT PROPERTIES WITHOUT PRIOR PERMISSION FROM SAID PROPERTY OWNER.
- GRADING AND DRAINAGE: FINISH GRADE SHALL BE SLOPED FOR POSITIVE DRAINAGE.
- PROPERTY LINES SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. GRADING, CLEARING, AND THE ERECTION OR REMOVAL OF FENCES ALONG PROPERTY LINES SHALL BE FULLY COORDINATED WITH ADJACENT PROPERTY OWNERS.
- ALL GRADING WORK SHALL BE PERFORMED IN SUCH A MANNER THAT ADJACENT PROPERTIES ARE NOT DAMAGED OR ADVERSELY AFFECTED.
- THE LOCATION OF ALL EXISTING UTILITIES SHALL BE PROPERLY VERIFIED PRIOR TO CONSTRUCTION. ALL WORK SHALL BE PERFORMED IN A MANNER TO ENSURE THAT EXISTING UTILITIES ARE NOT INTERFERED WITH OR DISRUPTED.
- THE CONTRACTOR IS TO INSTALL EROSION AND SEDIMENT CONTROL SYSTEMS AND STRUCTURES AS NECESSARY TO PREVENT SEDIMENT LADEN WATER FROM LEAVING THE SITE.
- CONTRACTOR IS RESPONSIBLE FOR AND SHALL PAY FOR ALL SURVEY LAYOUT AND STAKING.

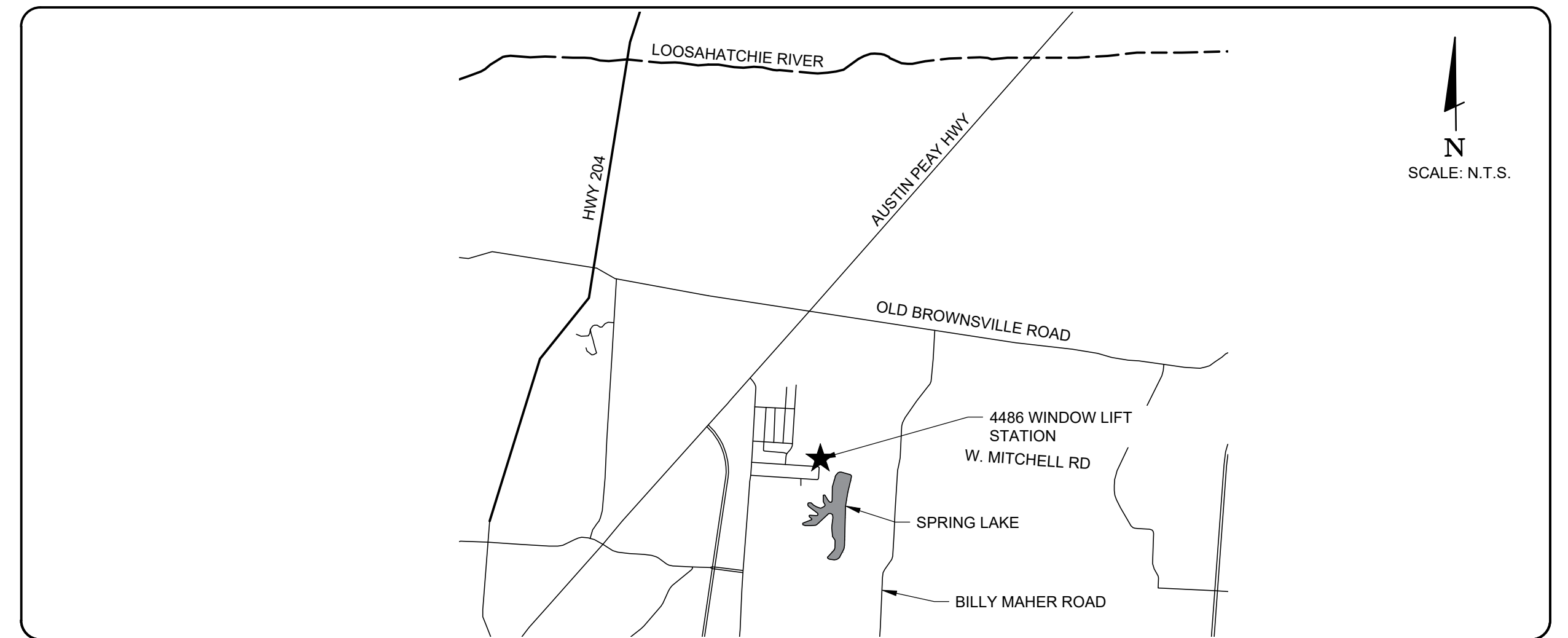
CITY OF MEMPHIS TYPICAL CONSTRUCTION NOTES

- LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND ARE NOT NECESSARILY ALL THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND/OR UNDERGROUND STRUCTURES PRIOR TO THE INITIATION OF ANY CONSTRUCTION. CONTRACTOR SHALL ALSO ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN CONSTRUCTION PERIMETERS. FOR SITE LOCATIONS OF EXISTING UTILITIES INVOLVING M.L.G.&W., SOUTH CENTRAL BELL, AND/OR TEXAS GAS COMPANY, PLEASE CALL 1-800-351-1111. FOR SEWER SERVICE LOCATIONS, CALL 901-636-8025.
- CONTRACTOR SHALL ENSURE UNINTERRUPTED SEWER SERVICE ON EXISTING SEWER AND SERVICE CONNECTIONS BY PROVIDING AMPLE TEMPORARY WASTEWATER PUMPING AND/OR BYPASSING.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES.
- CONTRACTOR SHALL NOTIFY THE SARP10 CONSTRUCTION MANAGER A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION.
- ALL AREAS IN CUT OR FILL WHERE VEGETATION HAS BEEN REMOVED SHALL BE SEEDED, MULCHED, FERTILIZED, AND/OR SODDED AS REQUIRED TO PREVENT EROSION.
- THE CONTRACTOR SHALL VERIFY EXISTING DATA AND REPORT ANY SIGNIFICANT DISCREPANCIES TO THE ENGINEER.
- ALL SANITARY SEWER TO BE CONSTRUCTED AS PER CITY OF MEMPHIS STANDARD CONSTRUCTION SPECIFICATIONS. SANITARY SEWER SERVICE CONNECTIONS TO BE INSTALLED AS PER CITY OF MEMPHIS STANDARD SST-16.
- ALL SEWER MANHOLE LIDS IN OPEN AREAS ARE TO BE CONSTRUCTED 1.5' ABOVE PROPOSED GRADE. IN BACKYARDS, MANHOLE LIDS ARE TO BE 1.5' ABOVE INITIAL GRADE, 0.5' ABOVE FINAL GRADE.
- ALL SANITARY SEWER, INCLUDING SERVICE CONNECTIONS, WHICH HAS LESS THAN 1.5' CLEARANCE (OUTSIDE OF PIPES) WITH DRAINAGE OR IN FILLED AREAS SHALL BE CLASS 50 D.I.P. OR CONCRETE ENCASED, 10' MINIMUM BOTH SIDES OF CROSSING. ALL DUCTILE IRON PIPE (D.I.P.) SHALL BE POLYETHYLENE LINED OR SHALL BE TREATED WITH PROTECTO 401 OR APPROVED EQUIVALENT.
- THE CITY OF MEMPHIS SHALL HAVE INGRESS/EGRESS RIGHTS TO USE PRIVATE DRIVES AND YARDS FOR THE PURPOSE OF MAINTAINING ALL PUBLIC SEWER LINES AND SHALL BEAR NO RESPONSIBILITY FOR THE MAINTENANCE OF SAID PRIVATE DRIVES AND YARDS.
- NO TREES, SHRUBS, PERMANENT STRUCTURES, OR OTHER UTILITIES (EXCEPT FOR CROSSINGS) WILL BE ALLOWED WITHIN SANITARY SEWER EASEMENT. NO OTHER UTILITIES OR SERVICES MAY OCCUPY SANITARY SEWER EASEMENTS IN PRIVATE DRIVES AND YARDS EXCEPT FOR CROSSINGS.
- ALL SANITARY SEWER MANHOLES IN REVERSE CROWN STREETS, ALLEYS, OR DRIVES (PUBLIC OR PRIVATE) SHALL BE PROVIDED WITH GASKETS AND PLUGS FOR PICK HOLES TO PREVENT DRAINAGE INFLOW INTO SEWER SYSTEM.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE AND EFFECTIVE EROSION CONTROL AS NECESSARY TO PREVENT ANY SILTATION INTO EXISTING DRAINAGE SYSTEM AND/OR ADJACENT PROPERTIES.

LEGEND

EXISTING	NEW	
⊕	⊕	CAP OR PLUG
⊕	⊕	SANITARY SEWER MANHOLE
⊕	⊕	STORM SEWER MANHOLE
⊕	CO ⊕	CLEANOUT
⊕	⊕	YARD HYDRANT
⊕	⊕	FIRE HYDRANT
⊕	⊕	REDUCER
⊕	⊕	SOLID SLEEVE OR HDPE MJ ADAPTER
⊕	⊕	WATER VALVE
⊕	⊕	WATER METER
⊕	⊕	AIR VALVE MH OR LINE STOP VALVE
— FM —	— FM —	FORCE MAIN
— G —	— G —	GAS LINE
— SD —	— SD —	STORM SEWER LINE
— SS —	— SS —	SANITARY SEWER LINE
— W —	— W —	WATER MAIN
--- 350 ---	--- 350 ---	CONTOUR
— X —	— X —	FENCE
⊕	⊕	POWER/TELEPHONE POLE
⊕	⊕	TREE
---	---	CENTERLINE
---	---	PROPERTY BOUNDARY LINE
---	---	RIGHT-OF-WAY
---	---	EASEMENT
---	---	USACE DREDGE LIMITS

VICINITY MAP



FLOOD HAZARD NOTE:
THE SUBJECT PROPERTY IS LOCATED IN A SPECIAL FLOOD HAZARD AREA ZONE "X" (MINIMAL AREAS OUTSIDE THE 1-PERCENT AND 0.2 PERCENT ANNUAL CHANCE FLOOD EVENT) AS PER FLOOD LINES ESTABLISHED BY THE FEDERAL MANAGEMENT AGENCY AS SHOWN ON FLOOD INSURANCE RATE MAP NUMBER 47157C0301G, DATED FEBRUARY 6, 2013.

BENCHMARK NOTE:
CITY OF MEMPHIS BENCHMARK NUMBER 1892 - CRIEWOOD DR. & WINDOW DR.; CITY CAP IS LOCATED ON THE SW CORNER, SET 12-15-06, GLUED TO TOP OF CURB AT THE MID POINT OF RADIUS, CITYNET 9FS 848, ELEVATION: 300.01

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE
0	ISSUED FOR CONST.	7/28/2021



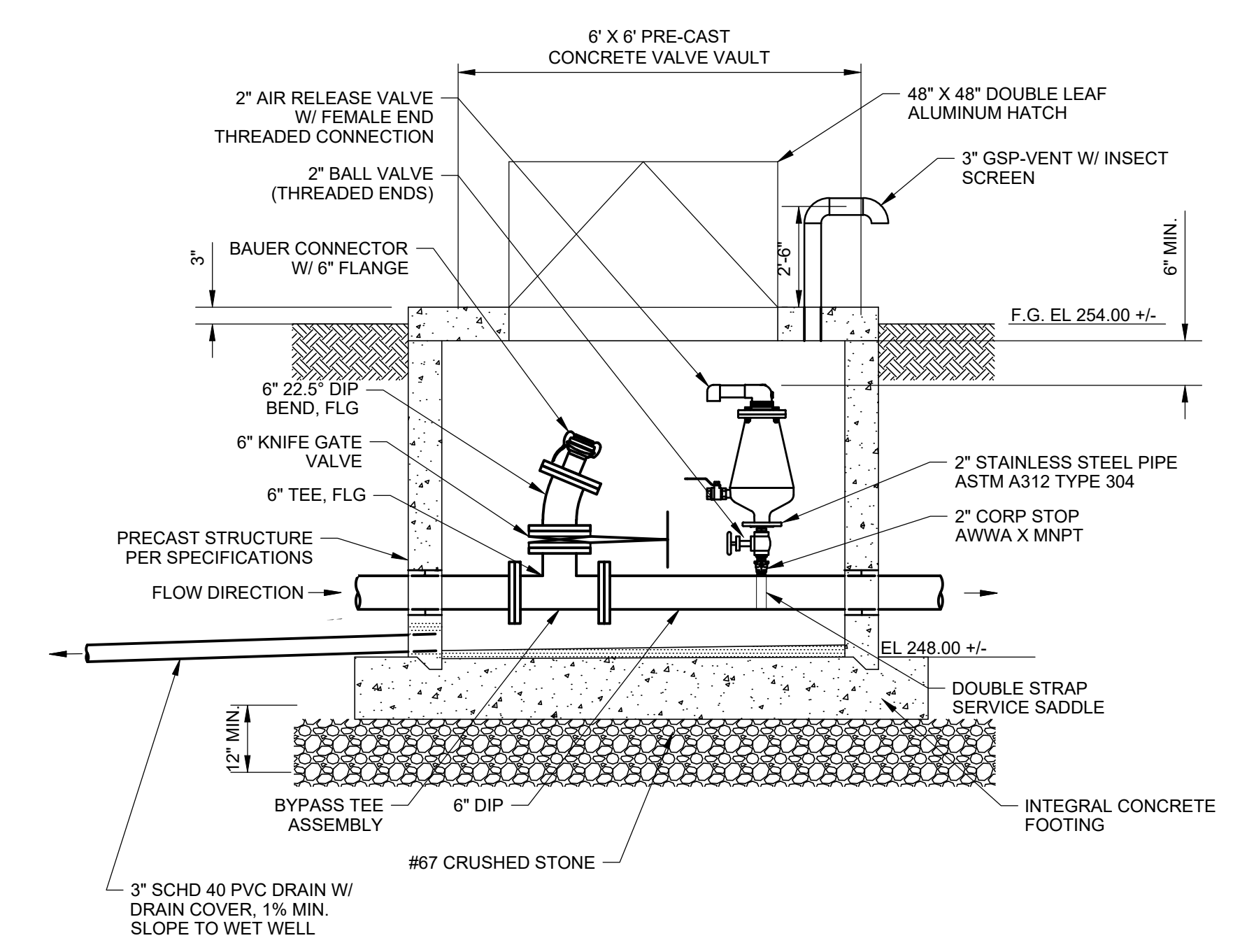
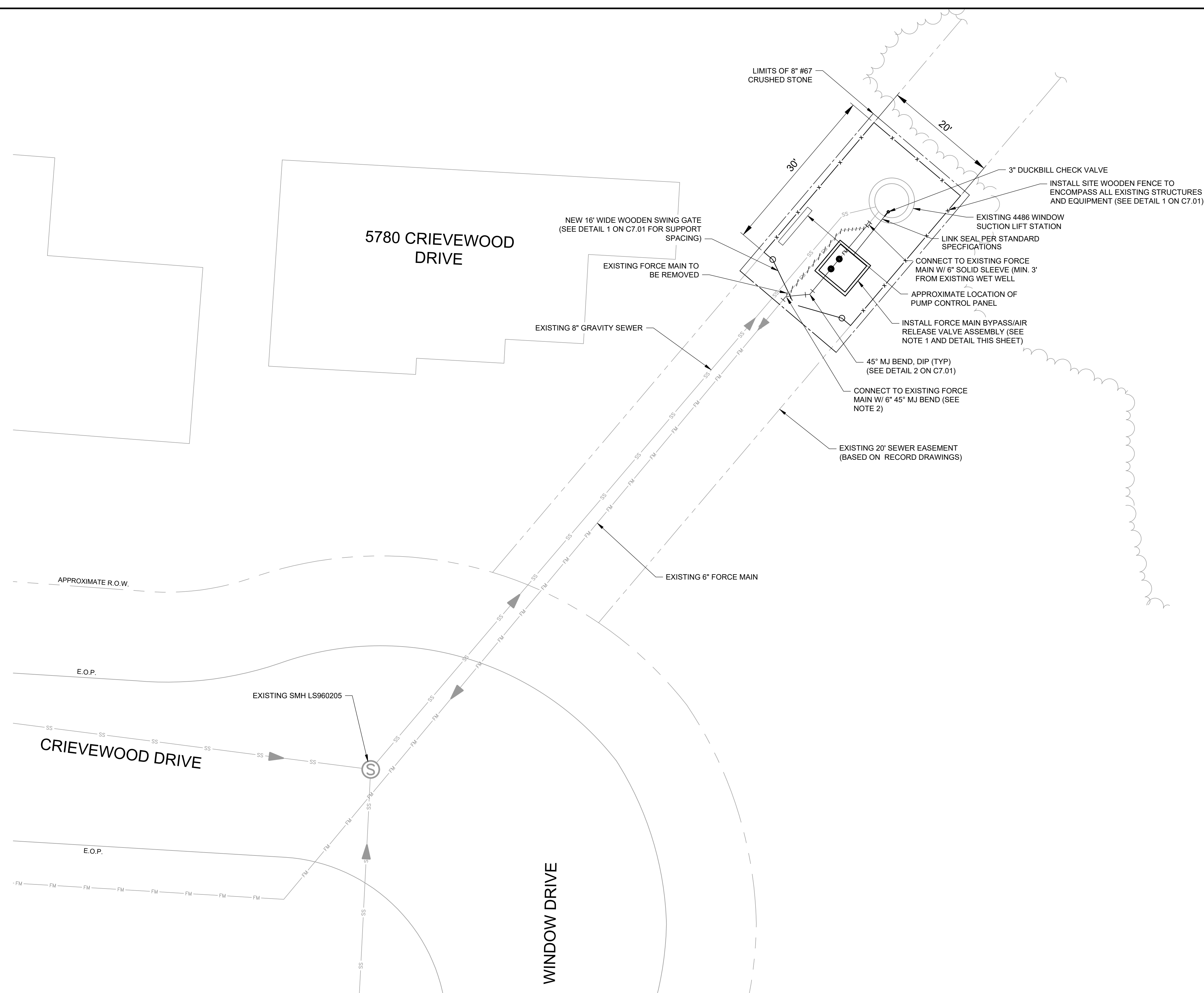
SEWER BASIN: LS 06 G0.02

DIVISION OF ENGINEERING
NOTES
LOCATION: 4486 WINDOW LIFT STATION
MEMPHIS, TENNESSEE

Lift Station Rehab Design Group 2-B
MEMPHIS, TENNESSEE
DEVELOPER: SARP10
ENGINEER: BARGE DESIGN SOLUTIONS, INC.

SURVEY: DESIGN BY: BARGE DATE: 7/2021 PROJECT NO.: 36592-04 SCALE: NONE REVIEWED:
DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

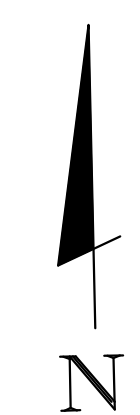
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FM BYPASS/AIR RELEASE ASSEMBLY
SCALE: 1/2" = 1'-0"

- NOTES:**
- FORCE MAIN BYPASS/AIR RELEASE VALVE ASSEMBLY SHALL NOT BE INSTALLED ON TOP OF EXISTING GRAVITY SEWER. A MINIMUM OF 2 FEET SHALL BE MAINTAINED BETWEEN EXISTING GRAVITY SEWER AND NEW ASSEMBLY.
 - IF THE NEAREST JOINT OF THE EXISTING FORCE MAIN IS WITHIN 10 FEET OF THE NEW CONNECTION, CONTRACTOR SHALL INSTALL ONE STICK OF NEW FORCE MAIN.

SEWER LAYOUT PLAN
SCALE: 1" = 10' - 0"



APPROVED FOR CONSTRUCTION

THE DOCUMENT BEARING THIS STAMP HAS BEEN RECEIVED AND REVIEWED BY THE CITY OF MEMPHIS DIVISION OF ENGINEERING UNDER AUTHORITY DELEGATED BY THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF WATER POLLUTION CONTROL. IT IS HEREBY APPROVED FOR CONSTRUCTION BY THE CITY ENGINEER AS EVIDENCED BY HIS SIGNATURE IN THE TITLE BLOCK BELOW.

APPROVAL EXPIRES 1 YEAR FROM APPROVAL DATE BELOW. THIS APPROVAL SHALL NOT BE CONSTRUED AS CREATING A PRESUMPTION OF CORRECT OPERATION OR AS WARRANTING BY THE CITY ENGINEER THAT THE APPROVED FACILITIES WILL REACH THE DESIRED GOALS.

FLOOD HAZARD NOTE:
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BENCHMARK NOTE:
CITY OF MEMPHIS BENCHMARK NUMBER 1892 - CRIEVEWOOD DR. & WINDOW DR.: CITY CAP IS LOCATED ON THE SW CORNER, SET 12-15-06, GLUED TO TOP OF CURB AT THE MID POINT OF RADIUS, CITYNET GPS 848, ELEVATION: 300.01

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE
0	ISSUED FOR CONST.	7/28/2021



SEWER BASIN: LS 06 C1.01

DIVISION OF ENGINEERING

SEWER LAYOUT PLAN

LOCATION: 4486 WINDOW LIFT STATION
MEMPHIS, TENNESSEE

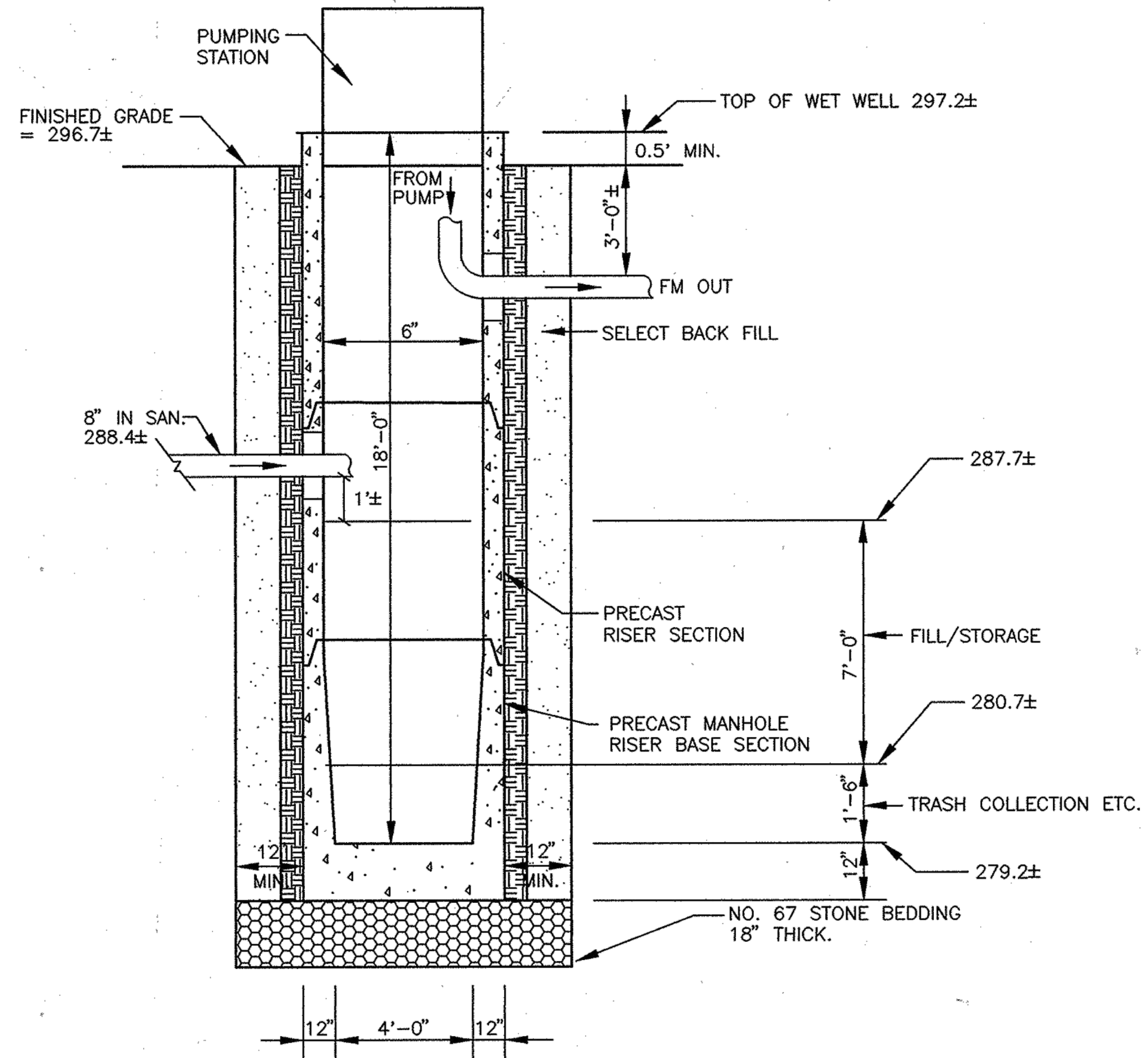
SURVEY: DATE: PROJECT NO.: 36592-04
DESIGN BY: BARGE DATE: 7/2021 SCALE: 1" = 5'
REVIEWED:

DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE



Lift Station Rehab Design Group 2-B
MEMPHIS, TENNESSEE
DEVELOPER: SARP10
ENGINEER: BARGE DESIGN SOLUTIONS, INC.

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- NOTES:
1. RECORD DRAWINGS DRAWN BY CITY OF MEMPHIS DIVISION OF ENGINEERING - DEPARTMENT OF SEWER DESIGN 1994 TITLED "WINDOW DRIVE PUMP RELOCATION".

EXISTING LIFT STATION
N.T.S.

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REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE
0	ISSUED FOR CONST.	7/28/2021

Digitally signed by Mark D. Nee
Date: 2021.07.28 10:44:03 -0500

SEWER BASIN: LS 06 C1.02

DIVISION OF ENGINEERING
EXISTING CONDITIONS
LOCATION: 4486 WINDOW LIFT STATION
MEMPHIS, TENNESSEE

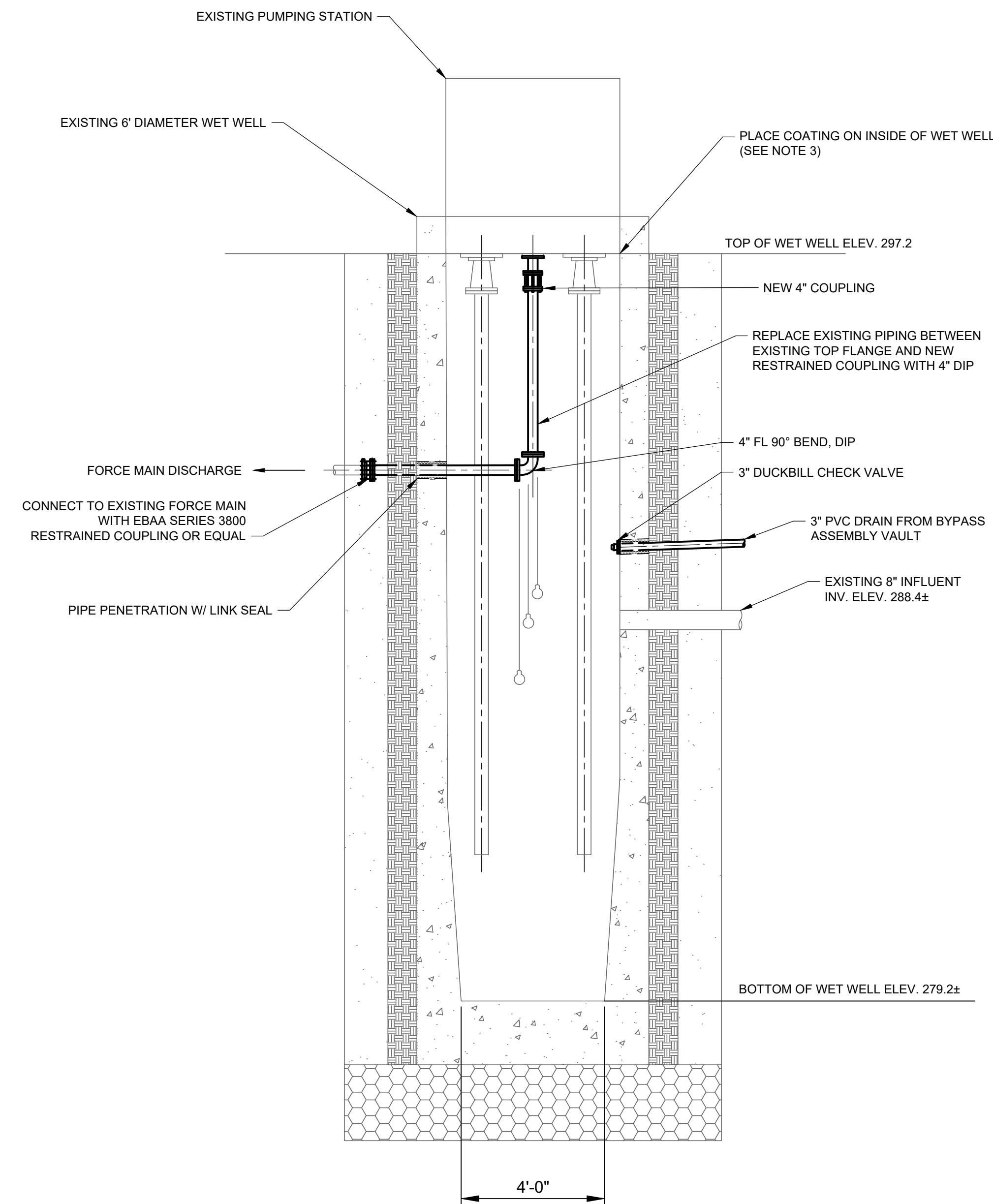
SURVEY: DESIGN BY: BARGE DATE: 7/2021 PROJECT NO.: 36592-04 SCALE: N.T.S. REVIEWED:

DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE



Lift Station Rehab Design Group 2-B
MEMPHIS, TENNESSEE
DEVELOPER: SARPIO
ENGINEER: BARGE DESIGN SOLUTIONS, INC.

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LIFT STATION SECTION

SCALE: N.T.S

NOTES:

- EXISTING PIPE LOCATION AND CONDITION SHOULD BE CONFIRMED PRIOR TO REPLACEMENT.
- CONTRACTOR TO SUPPLY AND INSTALL ADDITIONAL PIPING AND FITTINGS AS NECESSARY TO MATCH EXISTING PIPING CONNECTIONS.
- CONTRACTOR SHALL APPLY CITY OF MEMPHIS APPROVED COATING SYSTEM TO ALL INTERIOR SURFACES OF THE WET WELL PER STANDARD SPECIFICATIONS.
- EXISTING PUMP DATA COLLECTED FROM THE "FINAL ASSESSMENT REPORT FOR 1585 WEST MITCHELL - SARF10 LIFT STATION ASSESSMENT PROJECT FOR THE CITY OF MEMPHIS" DATED JANUARY 17, 2019.

PUMP 1/2 DATA:
 - MANUFACTURER: SMITH & LOVELESS
 - TYPE: VERTICAL CENTRIFUGAL
 - RATED CAPACITY: APPROX. 230GPM @ 107 FT OF HEAD
 - MODEL: 4B3B
 - MOTOR HP: 10

APPROVED FOR CONSTRUCTION

THE DOCUMENT BEARING THIS STAMP HAS BEEN RECEIVED AND REVIEWED BY THE CITY OF MEMPHIS DIVISION OF ENGINEERING UNDER AUTHORITY DELEGATED BY THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF WATER POLLUTION CONTROL. IT IS HEREBY APPROVED FOR CONSTRUCTION BY THE CITY ENGINEER AS EVIDENCED BY HIS SIGNATURE IN THE TITLE BLOCK BELOW.

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BENCHMARK NOTE:
 CITY OF MEMPHIS BENCHMARK NUMBER 1892 - CRIEVEWOOD DR. & WINDOW DR.: CITY CAP IS LOCATED ON THE SW CORNER, SET 12-15-06, GLUED TO TOP OF CURB AT THE MID POINT OF RADIUS, CITYNET GPS 848, ELEVATION: 300.01

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE
0	ISSUED FOR CONST.	7/28/2021

Digitally signed by Mark D. Nee
 Date: 2021.07.28 10:43:51 EDT

SEWER BASIN: LS 06 C2.01

DIVISION OF ENGINEERING
LIFT STATION SECTION
 LOCATION: 4486 WINDOW LIFT STATION
 MEMPHIS, TENNESSEE

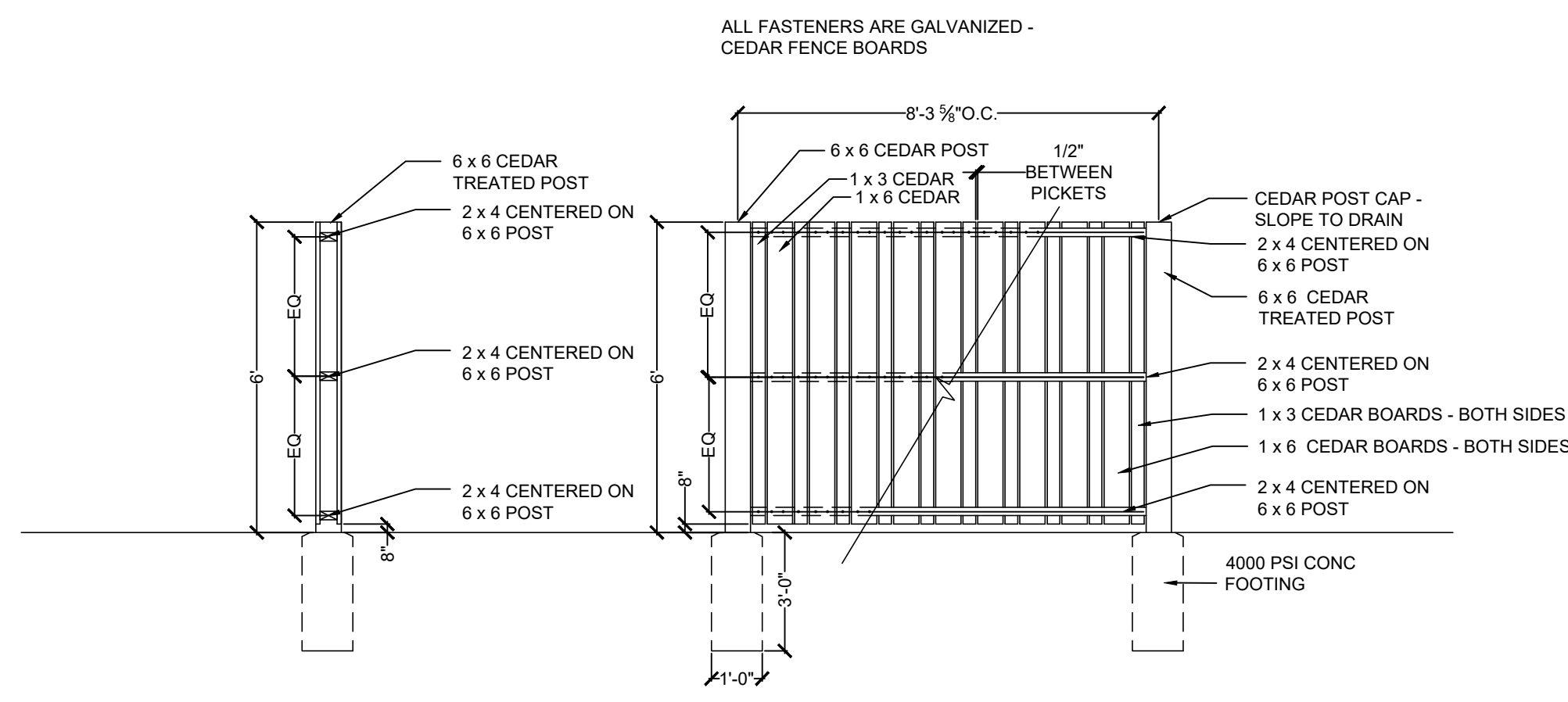
SURVEY: DESIGN BY: BARGE DATE: 7/2021 PROJECT NO.: 36592-04 SCALE: REVIEWED:

DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE



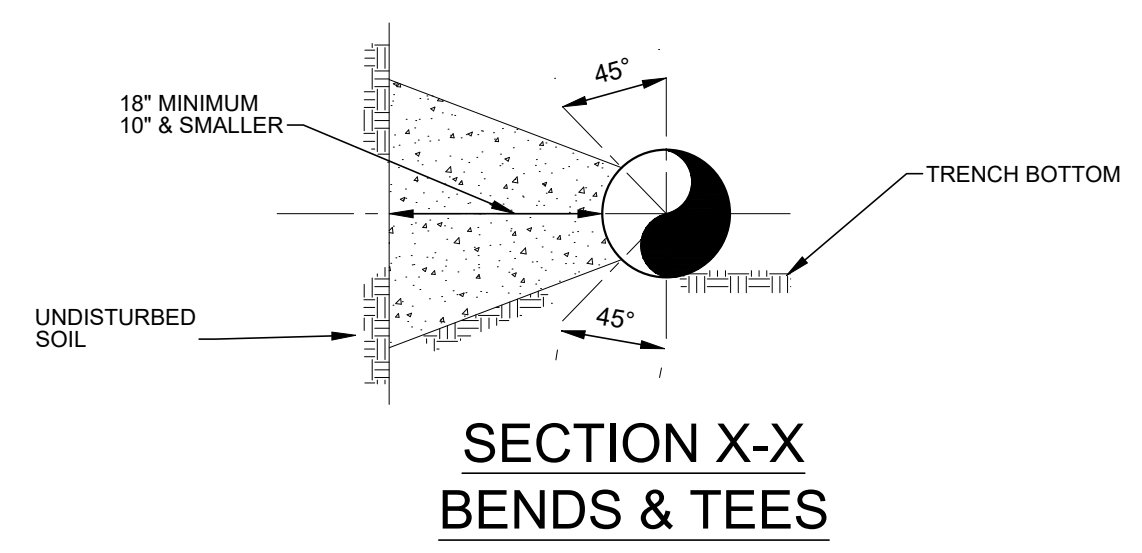
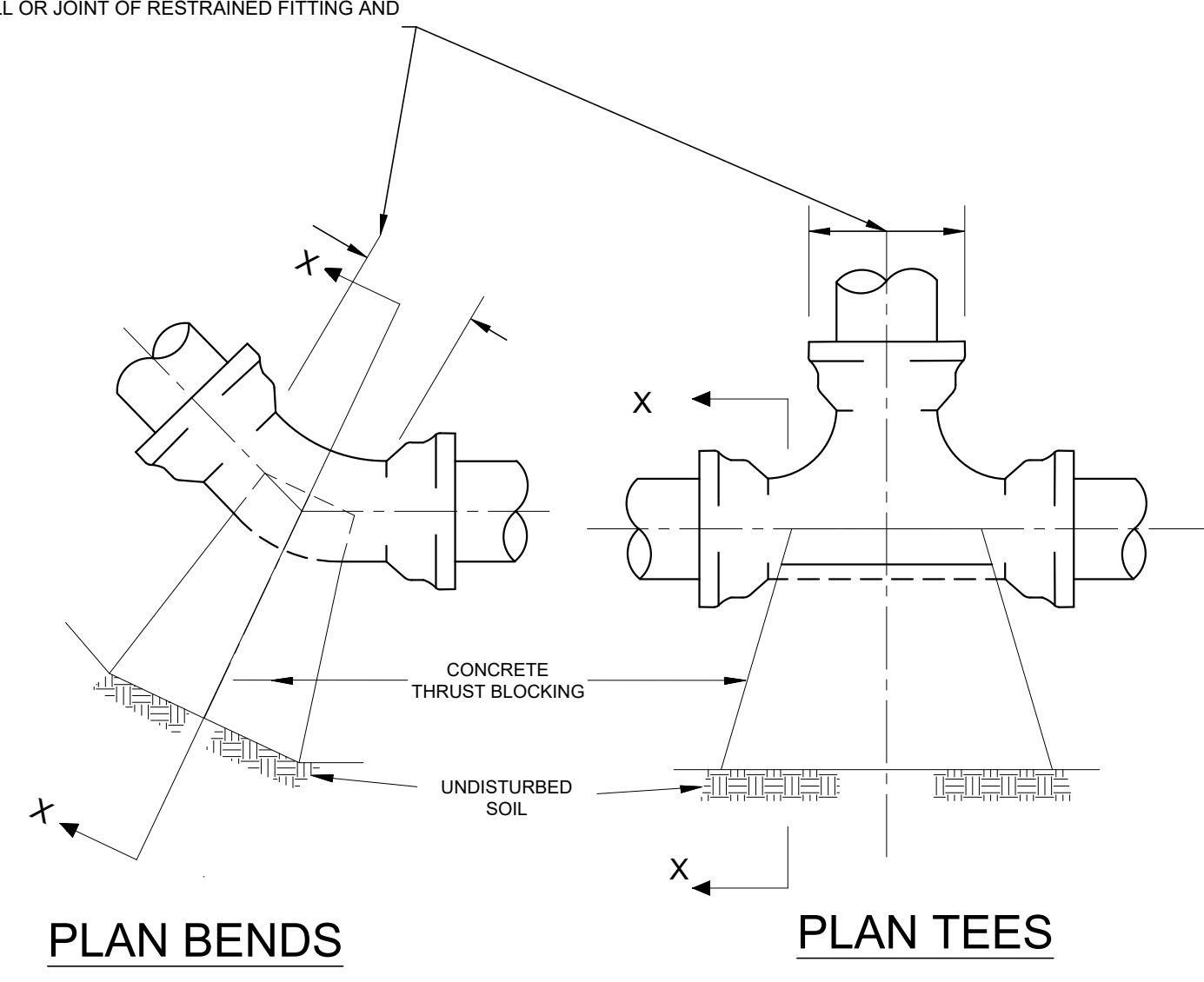
Lift Station Rehab Design Group 2-B
 MEMPHIS, TENNESSEE
 DEVELOPER: SARPIO
 ENGINEER: BARGE DESIGN SOLUTIONS, INC.

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1 SITE SECURITY FENCING
SCALE: NONE

CONFINE LIMITS OF THRUST BLOCKING BETWEEN BELLS OF FITTING TO BE RESTRAINED. NO CONCRETE SHALL COME IN CONTACT WITH BELL OR JOINT OF RESTRAINED FITTING AND CONNECTING PIPE.



2 TYPICAL THRUST BLOCK
SCALE: NONE

CONCRETE THRUST BLOCKING SCHEDULE IN SQUARE FEET

PIPE SIZE	BENDS				STD. TEE
	11 1/4"	22 1/2"	45°	90°	
4	1.0	1.0	1.5	2.5	2.0
6	1.5	2.0	3.0	5.5	4.0
8	1.5	2.5	5.0	10.0	7.0
10	2.0	4.0	7.5	14.5	10.0
12	3.0	6.0	11.5	21.5	14.5
14	4.0	7.5	15.0	28.0	19.5
16	5.0	10.0	20.0	35.0	25.5
18	6.5	12.5	24.5	35.0	32.0
20	8.5	16.5	32.6	35.0	35.0
24	10.0	20.0	35.0	35.0	35.0
30	18.0	34.5	35.0	35.0	35.0
36	25.0	35.0	35.0	35.0	35.0
42	32.5	35.0	35.0	35.0	35.0

BLOCKING SCHEDULE BASED ON 200 PSI WATER PRESSURE, 2,000 PSF SOIL BEARING PRESSURE & 1.25 SAFETY FACTOR.

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REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE
0	ISSUED FOR CONST.	7/28/2021



SEWER BASIN: LS 06 C7.01

DIVISION OF ENGINEERING
DETAILS
LOCATION: 4486 WINDOW LIFT STATION
MEMPHIS, TENNESSEE

Lift Station Rehab Design Group 2-B
MEMPHIS, TENNESSEE
ENGINEER: BARGE DESIGN SOLUTIONS, INC.

SURVEY: DATE: PROJECT NO.: 36592-04
DESIGN BY: BARGE DATE: 7/2021 SCALE: NONE
REVIEWED:
DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

7/28/2021 9:18 AM Caroline Sanders F:\36\36592\3659204\04_CAD\WATR\04 - 4486 Window\03 - PLOT\3659204_C7.01_4486 Wndew_C3D18.dwg



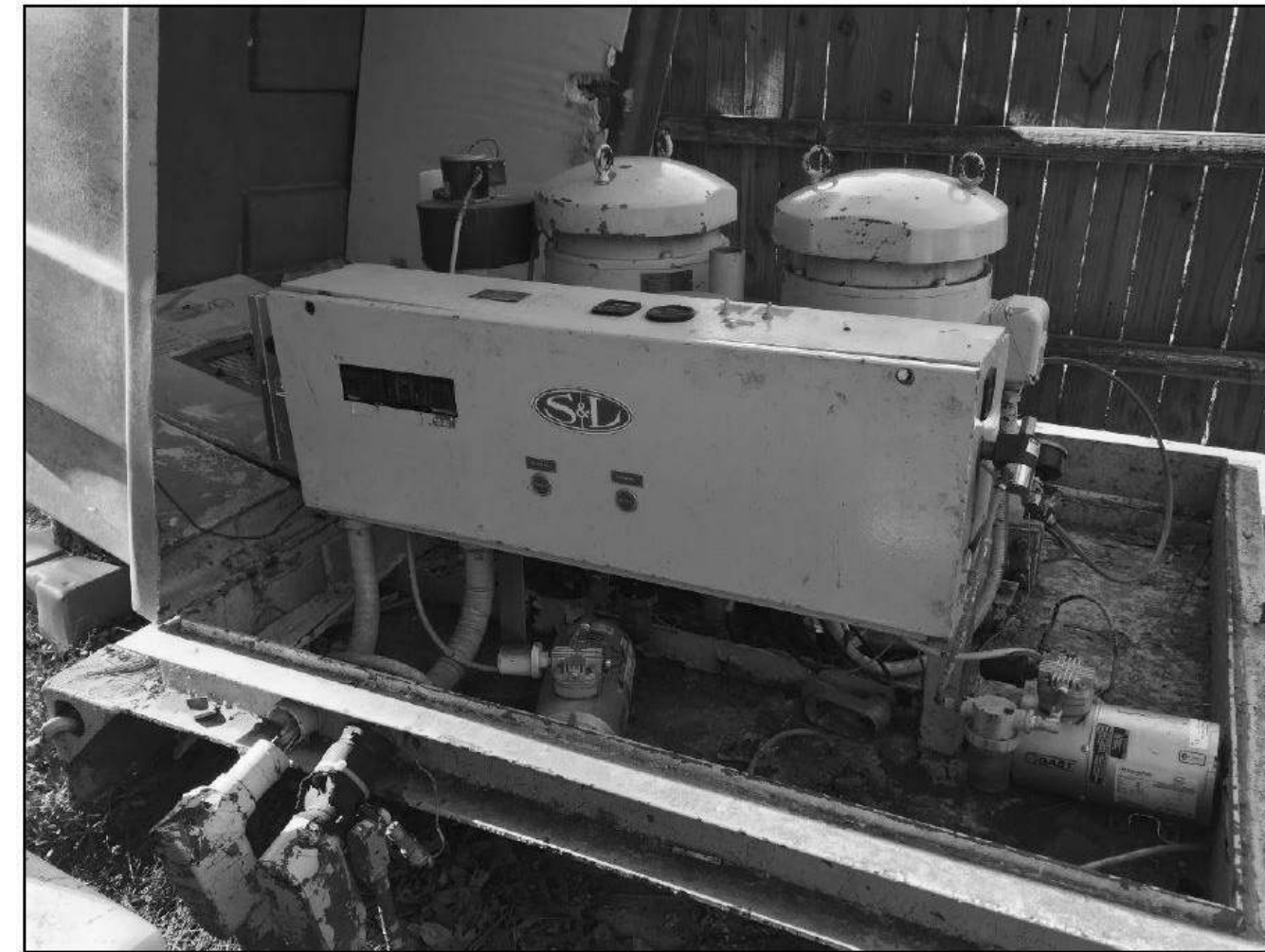
POWER WIRING CONDUIT BROKEN AND IN NEED OF REPAIR



PUMP STATION METER AND DISCONNECT



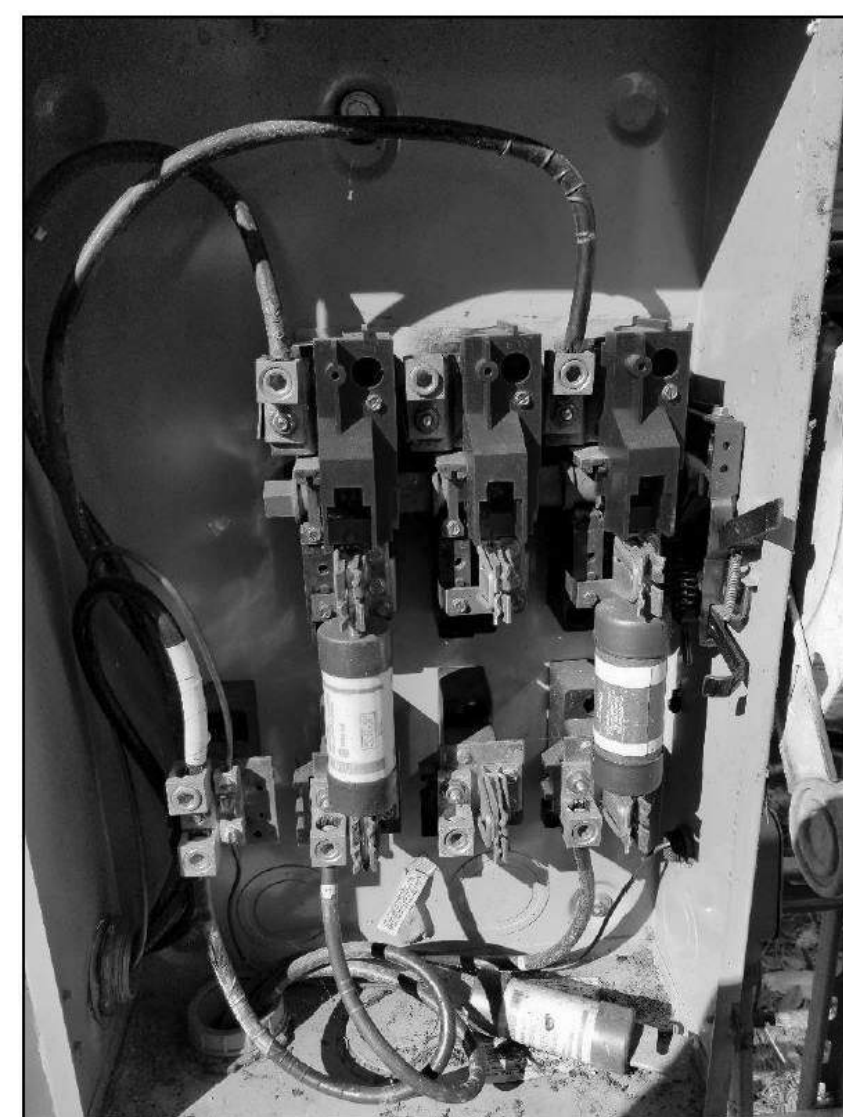
PUMP STATION WITH COVER



PUMP STATION CONTROL PANEL



CONTROL WIRING RACEWAY BROKEN AND NEEDS REPAIR



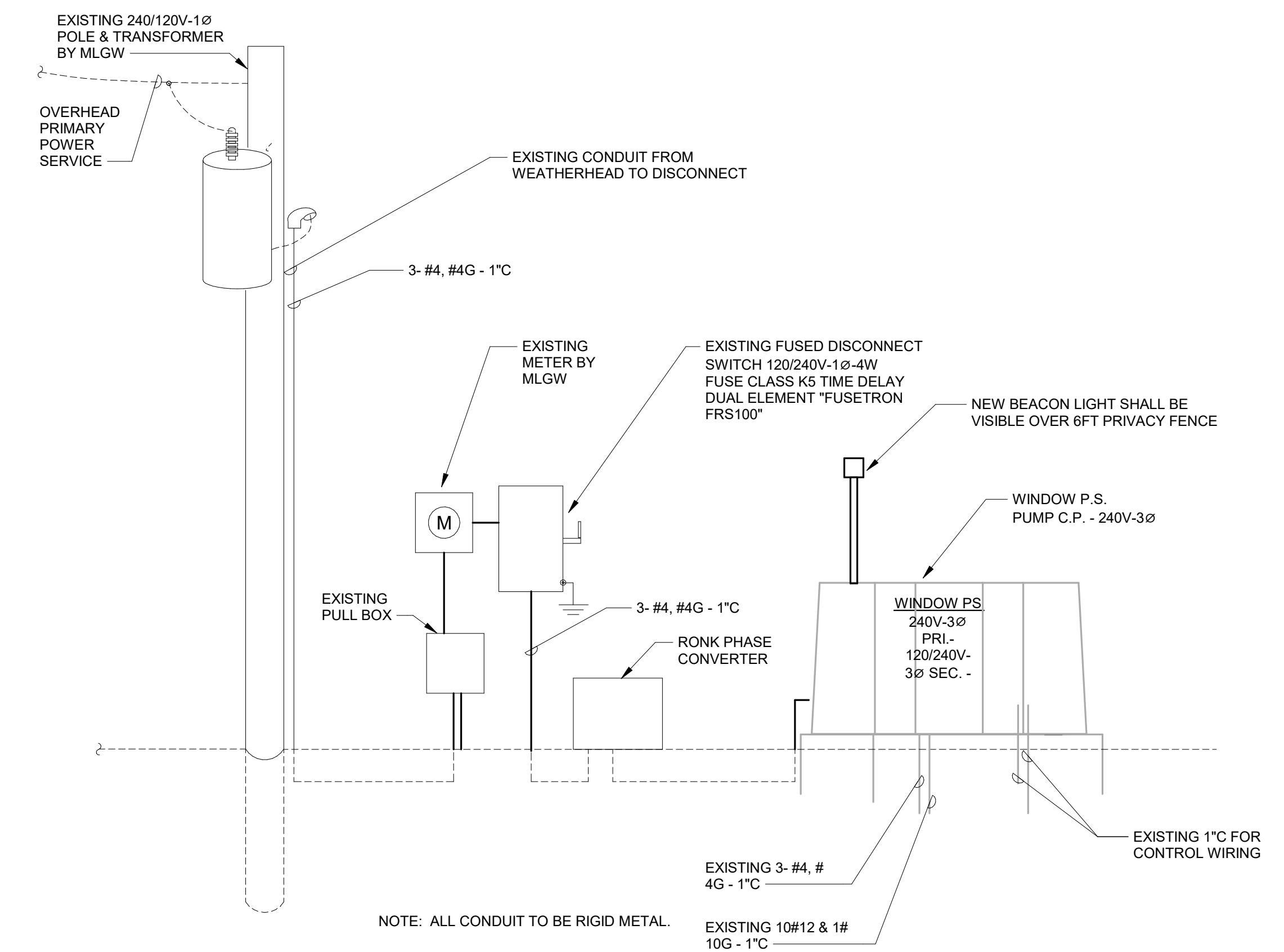
FUSED DISCONNECT

CODE ANALYSIS - INTERNATIONAL BUILDING CODE 2015

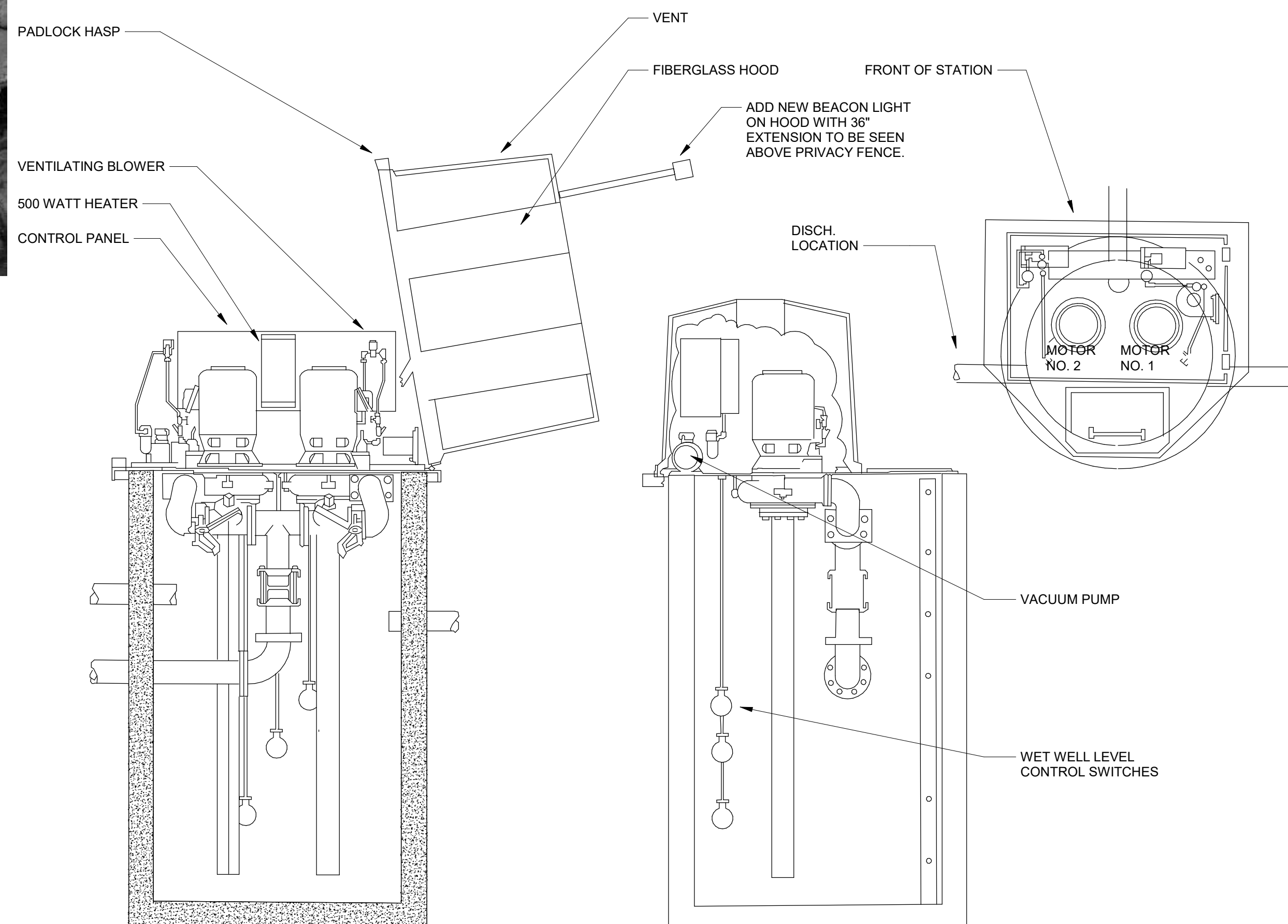
CODE COMMENTS	
JURISDICTION	Memphis and Shelby County Construction Code Enforcement
APPLICABLE CODES	
	2015 International Building Code with Local Amendments
	2015 International Existing Building Code with Local Amendments
	2015 International Residential Code with Local Amendments
	2014 National Electrical Code
	2018 Joint Electrical Code
	2015 International Mechanical Code with Local Amendments
	2015 International Fuel Gas Code with Local Amendments
	2015 International Plumbing Code with Local Amendments
	2015 International Energy Conservation Code with Local Amendments
	2009 ICC A117.1 Accessibility and Useable Buildings and Facilities (by reference)
	2013 ASME 17.1 Safety Code for Elevators and Escalators (by reference)

GENERAL PROJECT NOTES:

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE, AND ALL OTHER APPLICABLE STANDARDS AND REGULATIONS ENFORCED BY THE AUTHORITY HAVING JURISDICTION.
- ALL ABOVE GROUND EXTERIOR CONDUIT SHALL BE GALVANIZED RIGID STEEL CONDUIT WITH CORROSION RESISTANT FITTINGS, CLAMPS AND SUPPORT.
- IN THE EVENT OF CONFLICTS BETWEEN THE DRAWINGS, SPECIFICATIONS, CODES AND REGULATIONS, NOTIFY THE ENGINEER OF RECORD FOR HIS OPINION PRIOR TO INSTALLATION.
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL AND TO THE ENGINEER FOR REVIEW.
- SMACNA SEISMIC RESTRAINT MANUAL, THIRD EDITION 2008, OR LATEST REVISION MAY BE USED AS A GUIDE FOR GENERAL SEISMIC SUPPORT DETAIL AND SUPPORT SPACING RECOMMENDATIONS.
- COORDINATE LOCATION OF ALL LIGHTING FIXTURES, MECHANICAL EQUIPMENT AND ACCESS PANELS WITH EXISTING CONDITIONS PRIOR TO ROUGH-IN.
- WHILE GREAT EFFORT HAS BEEN MADE TO IDENTIFY EXISTING CIRCUITS THAT ARE TO BE REMOVED OR REPLACED, THE INFORMATION MAY NOT BE ACCURATE.
- ELECTRICAL CONTRACTOR SHALL VERIFY VOLTAGE AND AMP DRAW FOR ANY NEW EQUIPMENT.
- THE MAIN CONTROL PANEL IS FED WITH AN EXISTING 240V 3PH SERVICE PROVIDED BY A RONK PHASE CONVERTER. PRIMARY SERVICE IS 240/120V 1Ø 200A FUSED DISCONNECT ABOVE GRADE. ALL AUXILIARY EQUIPMENT IS CURRENTLY FED FROM THE CONTROL PANEL; LIGHTS, BLOWER DEHUMIDIFIER, SUMP PUMP, AIR COMPRESSOR & CONTROLS, AND TRANSFORMER.
- REPLACE FUSES IN DISCONNECT.
- REPLACE GROUND CLAMP AND TIGHTEN GROUND WIRES.
- REPLACE RACEWAY (CONDUIT AND FITTINGS) FOR BOTH POWER AND CONTROLS.
- INSTALL RED FLASHING BEACON LIGHT ON TOP OF CONTROL PANEL ENCLOSURE CONNECTED TO ALARM CONTACTS ON THE CONTROL PANEL FOR HIGH LEVEL FLOAT. BEACON SHALL BE SEEN ABOVE PRIVACY FENCE. INSTALL EMERGENCY CONTACT SIGN ON THE NEW PRIVACY ENCLOSURE STATING, "IF LIGHT IS BLINKING, PLEASE CALL 901-521-0186".



NEW DRAWING WEST WINDOW PUMP STATION SINGLE LINE DIAGRAM N.T.S.

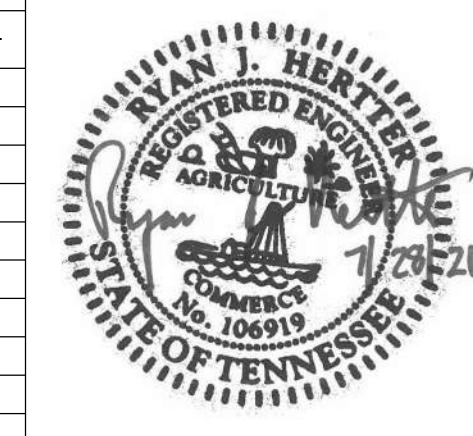


1 PUMP ELECTRICAL PLAN N.T.S.

FLOOD HAZARD NOTE:
THE SUBJECT PROPERTY IS LOCATED IN A SPECIAL FLOOD HAZARD AREA ZONE "X" (MINIMAL AREAS OUTSIDE THE 1-PERCENT AND 0.2 PERCENT ANNUAL CHANCE FLOOD EVENT) AS PER FLOOD LINES ESTABLISHED BY THE FEDERAL MANAGEMENT AGENCY AS SHOWN ON FLOOD INSURANCE RATE MAP NUMBER 47157C0301G, DATED FEBRUARY 6, 2013.

BENCHMARK NOTE:
CITY OF MEMPHIS BENCHMARK NUMBER 1892 - CRIEWOOD DR. & WINDOW DR. CITY CAP IS LOCATED ON THE SW CORNER, SET 12-15-06, GLUED TO TOP OF CURB AT THE MID POINT OF RADIUS, CITYNET GPS 848, ELEVATION: 300.01

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE



SEWER BASIN: LS 06

E1.01

DIVISION OF ENGINEERING
ELECTRICAL PLAN
LOCATION: 4486 WINDOW LIFT STATION
MEMPHIS, TENNESSEE

SURVEY: DESIGN BY: BARGE DATE: 9/2020 PROJECT NO.: 36592-04 SCALE: N.T.S.

DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE



Lift Station Rehab Design Group 2-B
MEMPHIS, TENNESSEE
DEVELOPER: SARP 10
ENGINEER: BARGE DESIGN SOLUTIONS, INC.

5230 RALEIGH MILLINGTON LIFT STATION SEWER ASSESSMENT AND REHABILITATION PROGRAM (SARP10)

MEMPHIS, TENNESSEE



LOCATION MAP

NOT TO SCALE



60 Germantown Court // Suite 100 // Memphis, Tennessee 38018
PHONE (901) 755-7166 // FAX (901) 755-7844

CONSTRUCTION
DOCUMENTS



G0.01

ABBREVIATIONS

Ø	DIAMETER
AFF	ABOVE FINISHED FLOOR
ALUM.	ALUMINUM
APPROX.	APPROXIMATE
BOC	BOTTOM CATCH BASIN
BOC	BACK OF CURB
BFP	BACKFLOW PREVENTOR
BFV	BUTTERFLY VALVE
CB	CATCH BASIN
CCTV	CLOSED CIRCUIT TELEVISION
CI	CURB INLET
CIPP	CURED-IN-PLACE PIPE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
CONC	CONCRETE
CONN	CONNECT
CONST.	CONSTRUCTION
CPLG.	COUPLING
CS	COMBINED SEWER
CU	COPPER
CV	CHECK VALVE
DB	DEED BOOK
DI	DROP INLET
DIP	DUCTILE IRON PIPE
DWCB	DOUBLE WING CATCH BASIN
DW	DRIVEWAY
ELEV.	ELEVATION
EXIST.	EXISTING
ELEC	ELECTRICAL SERVICE
EOI	END OF INFORMATION OR UNKNOWN TERMINATION POINT
EOP	EDGE OF PAVEMENT
FIP	FEMALE IRON PIPE
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FM	FORCE MAIN
GSP	GALVANIZED STEEL PIPE
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
HORZ	HORIZONTAL
HWY	HIGHWAY
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
INV	INVERT
LF	LINEAR FEET
MIN	MINIMUM
MIP	MALE IRON PIPE
MJ	MECHANICAL JOINT
MH	MANHOLE
MNPT	MALENATIONAL PIPE THREAD
NIF	NOW OR FORMERLY
NPW	NON POTABLE WATER
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
PG	PAGE
PP	POWER POLE
PR	POINT REPAIR
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
PW	POTABLE WATER
PWF	WATER FAUCET
PROP.	PROPOSED
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RET	RETAINER
RJ	RESTRAINED JOINT
R.O.W.	RIGHT-OF-WAY
SD	STORM DRAIN
SH	SHIELD
SP	SIGNAL POLE
SPD	STANDARD PROCTOR DENSITY
SR	STATE ROUTE
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
SSTL	STAINLESS STEEL
STA	STATION
SWCB	SINGLE WING CATCH BASIN
TELECOM	TELECOMMUNICATION CONDUIT
TP	TELEPHONE POLE
TSB	TRAFFIC SIGNAL BOX
TS&V	TAPPING SLEEVE AND VALVE
TRAFCON	TRAFFIC SIGNAL COMM WIRE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
WM	WATER METER
WTR	WATER
W	WITH
'	FEET
"	INCHES

INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
G0.01	COVER SHEET
G0.02	NOTES
C1.01	SEWER LAYOUT PLAN
C1.02	EXISTING CONDITIONS
C2.01	LIFT STATION IMPROVEMENTS
C7.01	DETAILS
E1.01	ELECTRICAL PLAN

NOTES

GENERAL NOTES

- ALL DESIGN, CONSTRUCTION AND MATERIAL SHALL BE IN COMPLIANCE WITH THE SEWER ASSESSMENT AND REHABILITATION PROGRAM (SARPI0) AND CITY OF MEMPHIS' CONSTRUCTION SPECIFICATIONS AND STANDARDS.
- THE CONTRACTOR SHALL NOT ENTER UPON, WORK UPON NOR CAUSE DAMAGE TO ANY ADJACENT PROPERTIES WITHOUT PRIOR PERMISSION FROM SAID PROPERTY OWNER.
- GRADING AND DRAINAGE: FINISH GRADE SHALL BE SLOPED FOR POSITIVE DRAINAGE.
- PROPERTY LINES SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. GRADING, CLEARING, AND THE ERECTION OR REMOVAL OF FENCES ALONG PROPERTY LINES SHALL BE FULLY COORDINATED WITH ADJACENT PROPERTY OWNERS.
- ALL GRADING WORK SHALL BE PERFORMED IN SUCH A MANNER THAT ADJACENT PROPERTIES ARE NOT DAMAGED OR ADVERSELY AFFECTED.
- THE LOCATION OF ALL EXISTING UTILITIES SHALL BE PROPERLY VERIFIED PRIOR TO CONSTRUCTION. ALL WORK SHALL BE PERFORMED IN A MANNER TO ENSURE THAT EXISTING UTILITIES ARE NOT INTERFERED WITH OR DISRUPTED.
- THE CONTRACTOR IS TO INSTALL EROSION AND SEDIMENT CONTROL SYSTEMS AND STRUCTURES AS NECESSARY TO PREVENT SEDIMENT LADEN WATER FROM LEAVING THE SITE.
- CONTRACTOR IS RESPONSIBLE FOR AND SHALL PAY FOR ALL SURVEY LAYOUT AND STAKING.

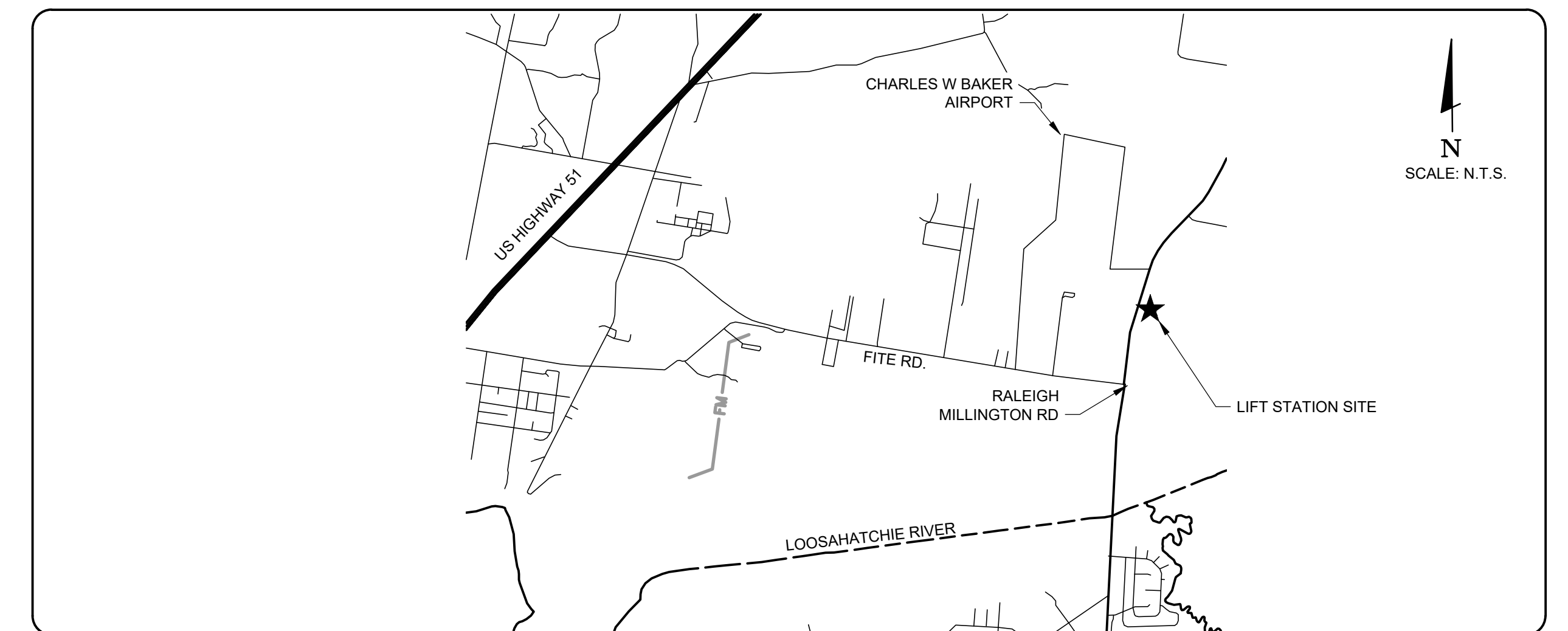
CITY OF MEMPHIS TYPICAL CONSTRUCTION NOTES

- LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND ARE NOT NECESSARILY ALL THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND/OR UNDERGROUND STRUCTURES PRIOR TO THE INITIATION OF ANY CONSTRUCTION. CONTRACTOR SHALL ALSO ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN CONSTRUCTION PERIMETERS. FOR SITE LOCATIONS OF EXISTING UTILITIES INVOLVING M.L.G.&W., SOUTH CENTRAL BELL, TEXAS GAS COMPANY, AND/OR FOR SEWER SERVICE LOCATIONS, CALL 811.
- CONTRACTOR SHALL ENSURE UNINTERRUPTED SEWER SERVICE ON EXISTING SEWER AND SERVICE CONNECTIONS BY PROVIDING AMPLE TEMPORARY WASTEWATER PUMPING AND/OR BYPASSING.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES.
- CONTRACTOR SHALL NOTIFY THE SARPI0 CONSTRUCTION MANAGER A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION.
- ALL AREAS IN CUT OR FILL WHERE VEGETATION HAS BEEN REMOVED SHALL BE SEED, MULCH, FERTILIZED, AND/OR SODDED AS REQUIRED TO PREVENT EROSION.
- THE CONTRACTOR SHALL VERIFY EXISTING DATA AND REPORT ANY SIGNIFICANT DISCREPANCIES TO THE ENGINEER.
- ALL SANITARY SEWER TO BE CONSTRUCTED AS PER CITY OF MEMPHIS STANDARD CONSTRUCTION SPECIFICATIONS. SANITARY SEWER SERVICE CONNECTIONS TO BE INSTALLED AS PER CITY OF MEMPHIS STANDARD SST-16.
- ALL SEWER MANHOLE LIDS IN OPEN AREAS ARE TO BE CONSTRUCTED 1.5' ABOVE PROPOSED GRADE. IN BACKYARDS, MANHOLE LIDS ARE TO BE 1.5' ABOVE INITIAL GRADE, 0.5' ABOVE FINAL GRADE.
- ALL SANITARY SEWER, INCLUDING SERVICE CONNECTIONS, WHICH HAS LESS THAN 1.5' CLEARANCE (OUTSIDE OF PIPES) WITH DRAINAGE OR IN FILLED AREAS SHALL BE CLASS 50 D.I.P. OR CONCRETE ENCASED, 10' MINIMUM BOTH SIDES OF CROSSING. ALL DUCTILE IRON PIPE (D.I.P.) SHALL BE POLYETHYLENE LINED OR SHALL BE TREATED WITH PROTECTO 401 OR APPROVED EQUIVALENT.
- THE CITY OF MEMPHIS SHALL HAVE INGRESS/EGRESS RIGHTS TO USE PRIVATE DRIVES AND YARDS FOR THE PURPOSE OF MAINTAINING ALL PUBLIC SEWER LINES AND SHALL BEAR NO RESPONSIBILITY FOR THE MAINTENANCE OF SAID PRIVATE DRIVES AND YARDS.
- NO TREES, SHRUBS, PERMANENT STRUCTURES, OR OTHER UTILITIES (EXCEPT FOR CROSSINGS) WILL BE ALLOWED WITHIN SANITARY SEWER EASEMENT. NO OTHER UTILITIES OR SERVICES MAY OCCUPY SANITARY SEWER EASEMENTS IN PRIVATE DRIVES AND YARDS EXCEPT FOR CROSSINGS.
- ALL SANITARY SEWER MANHOLES IN REVERSE CROWN STREETS, ALLEYS, OR DRIVES (PUBLIC OR PRIVATE) SHALL BE PROVIDED WITH GASKETS AND PLUGS FOR PICK HOLES TO PREVENT DRAINAGE INFLOW INTO SEWER SYSTEM.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE AND EFFECTIVE EROSION CONTROL AS NECESSARY TO PREVENT ANY SILTATION INTO EXISTING DRAINAGE SYSTEM AND/OR ADJACENT PROPERTIES.

LEGEND

EXISTING	NEW	
		CAP OR PLUG
		SANITARY SEWER MANHOLE
		STORM SEWER MANHOLE
		CLEANOUT
		YARD HYDRANT
		FIRE HYDRANT
		REDUCER
		SOLID SLEEVE OR HDPE MJ ADAPTER
		WATER VALVE
		WATER METER
		AIR VALVE MH OR LINE STOP VALVE
		FORCE MAIN
		GAS LINE
		STORM SEWER LINE
		SANITARY SEWER LINE
		WATER MAIN
		CONTOUR
		FENCE
		POWER/TELEPHONE POLE
		TREE
		CENTERLINE
		PROPERTY BOUNDARY LINE
		RIGHT-OF-WAY
		EASEMENT
		USACE DREDGE LIMITS

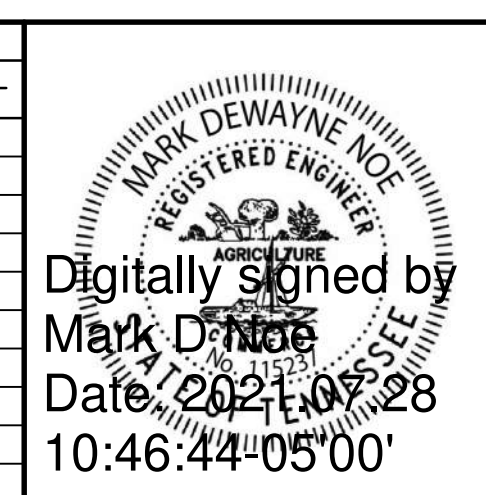
VICINITY MAP



FLOOD HAZARD NOTE:
THE SUBJECT PROPERTY IS LOCATED IN A SPECIAL FLOOD HAZARD AREA ZONE "AE" (AREAS SUBJECT TO INUNDATION BY THE 1-PERCENT ANNUAL CHANCE FLOOD EVENT DETERMINED BY DETAILED METHODS) AS PER FLOOD LINES ESTABLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY AS SHOWN ON FLOOD INSURANCE RATE MAP NUMBER 4715700170F, DATED SEPTEMBER 28, 2007. THE NEAREST BFE IS 236.0 FEET.

BENCHMARK NOTE:
CITY OF MEMPHIS BENCHMARK NUMBER 1599 - BLUFFWOOD DR. & ROYAL ELM CV.: CITY CAP IS LOCATED THE N.E. COR., GLUED TO TOP OF CURB AT ER ON BLUFFWOOD DR. SIDE. GPS 704, ELEVATION: 252.7

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE
0	ISSUED FOR CONST.	7/28/2021



SEWER BASIN: LN 03

G0.02

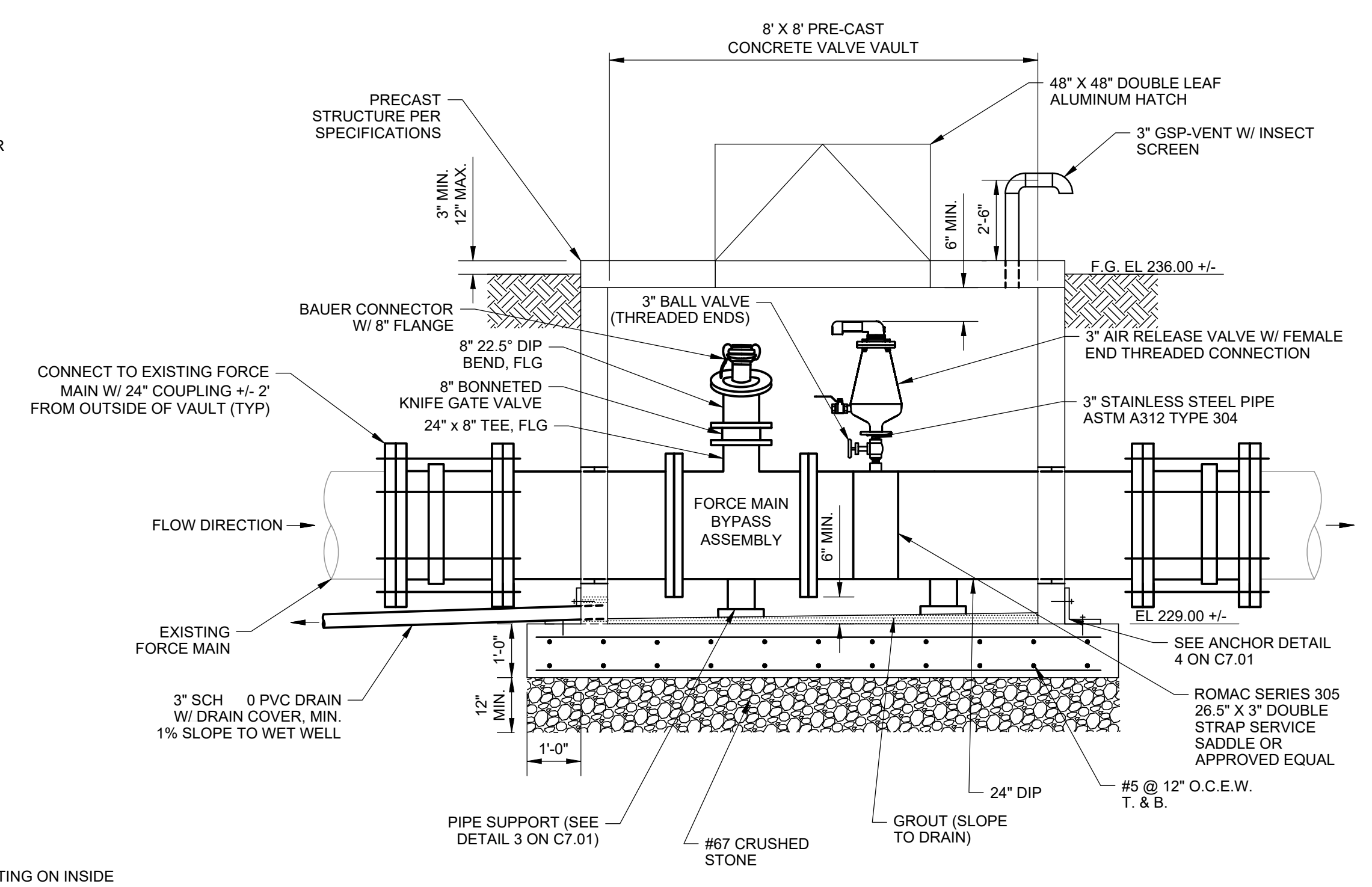
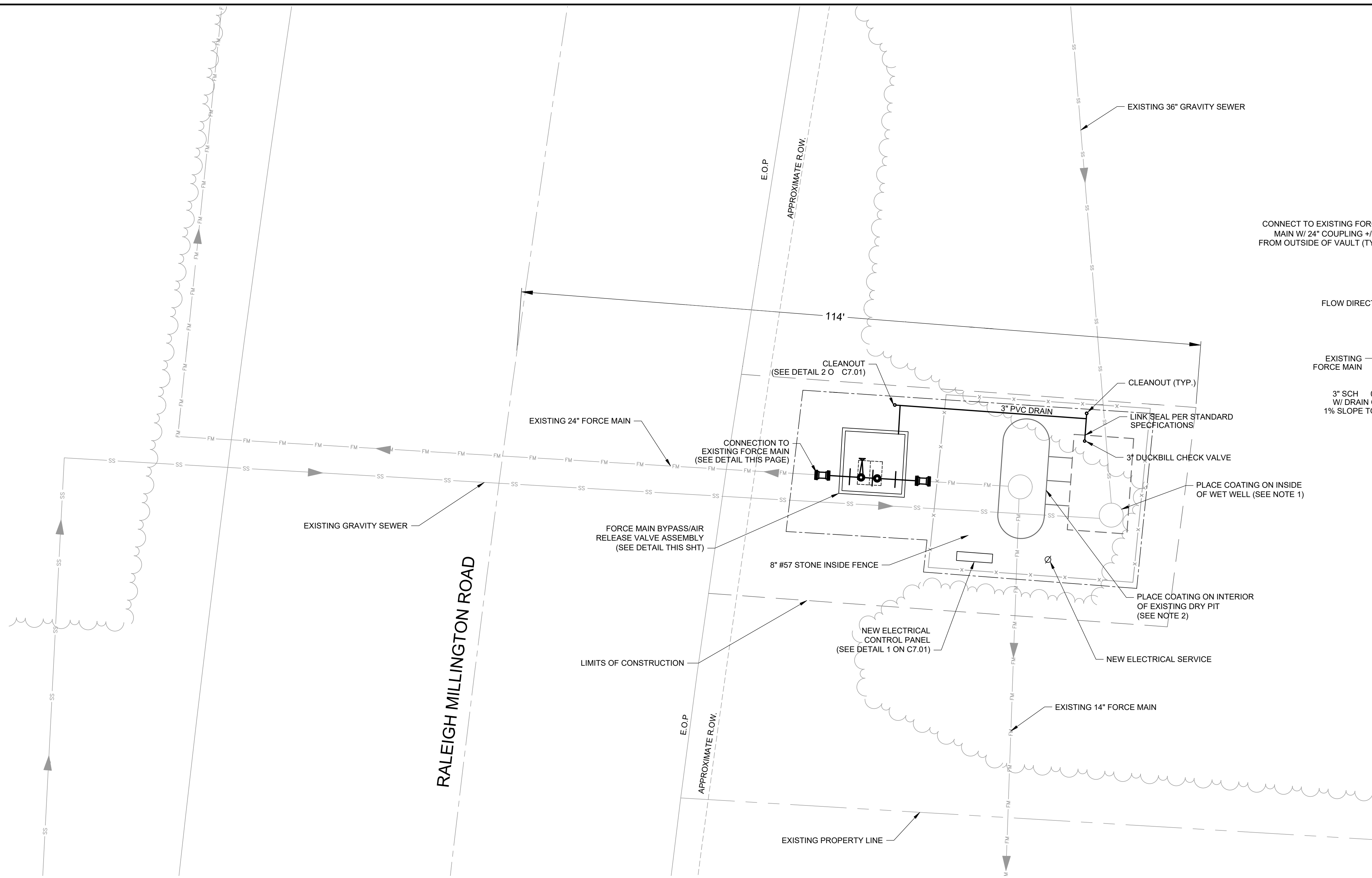
DIVISION OF ENGINEERING

NOTES
LOCATION: 5230 RALEIGH MILLINGTON LIFT STATION
MEMPHIS, TENNESSEE

SURVEY: DATE: PROJECT NO.: 36592-04
DESIGN BY: BARGE DATE: 07/2021 SCALE: NONE
REVIEWED:

Lift Station Rehab Design Group 2-B
MEMPHIS, TENNESSEE
DEVELOPER: SARPI0
ENGINEER: BARGE DESIGN SOLUTIONS, INC.

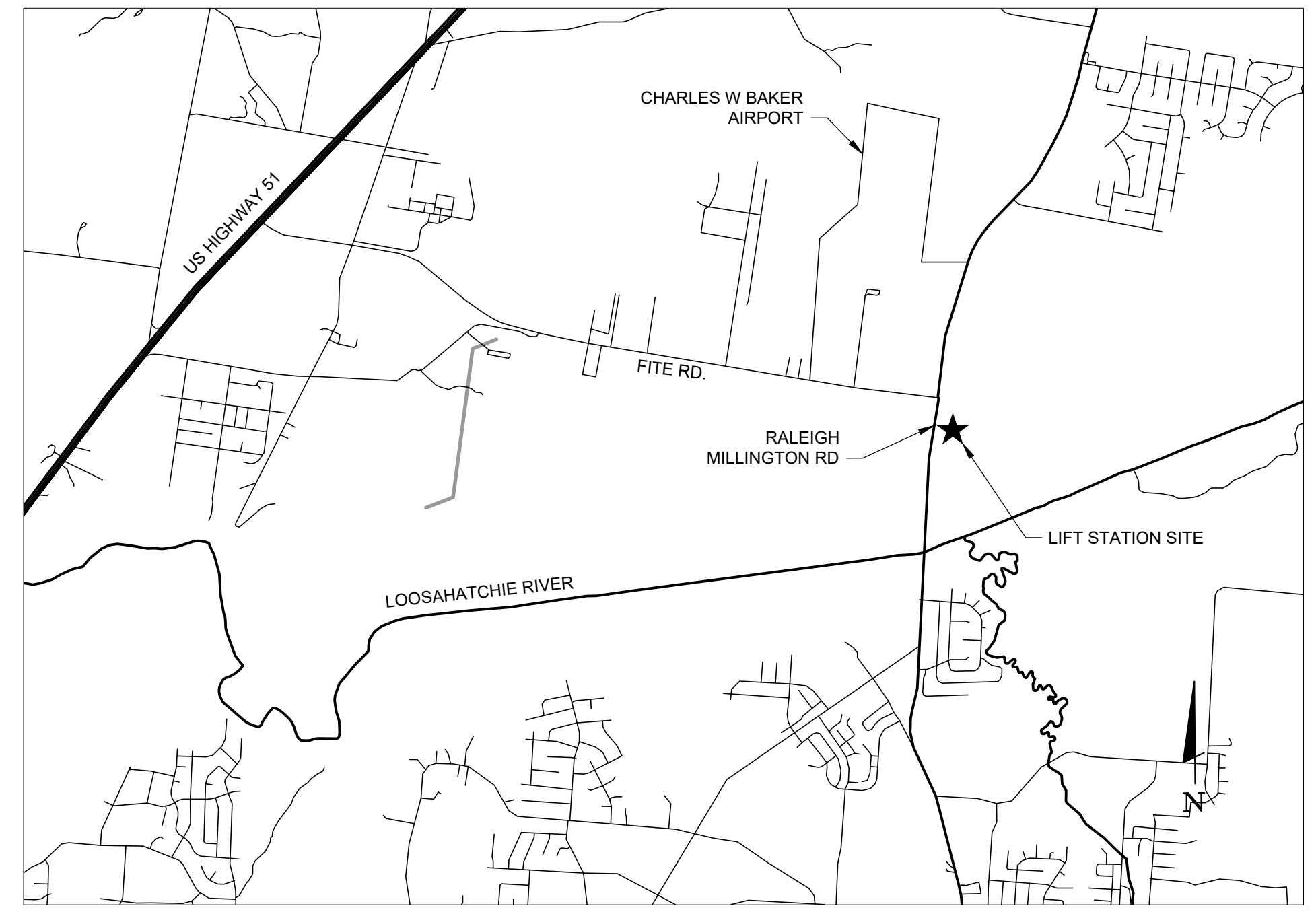
DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE



FM BYPASS/AIR RELEASE ASSEMBLY
SCALE: NONE

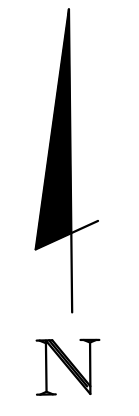
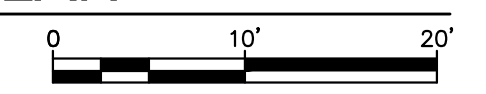
- NOTES:
- CONTRACTOR SHALL APPLY COATING SYSTEM TO ALL INTERIOR SURFACES OF THE WET WELL PER CITY OF MEMPHIS STANDARD SPECIFICATIONS.
 - CONTRACTOR SHALL APPLY COATING SYSTEMS LISTED IN TABLE BELOW TO ALL INTERIOR WALLS AND FLOORS OF THE DRY PIT PER MANUFACTURER SPECIFICATIONS. SURFACE PREPARATION SHALL BE MADE IN COMPLIANCE WITH SSPC SP 10. CONTRACTOR SHALL TEST COATING SYSTEM PER MANUFACTURER RECOMMENDATIONS. COLOR OF COATING SYSTEM TO BE SELECTED BY OWNER.

Coat	Carboline	Tneme	Sherwin Williams
1st	Carboguard 890 (4-6) or Carboguard 60 (4-10)	Tneme Series 104 (6-10)	Macropoxy 646 (5-10)
2nd	Carboguard 890 (4-6) or Carboguard 60 (4-10)	Tneme Series 104 (6-10)	-
(Dry Film Thickness in Mils)			



VICINITY MAP
SCALE: N.T.S.

SEWER LAYOUT PLAN
SCALE: 1" = 10' - 0"



APPROVED FOR CONSTRUCTION

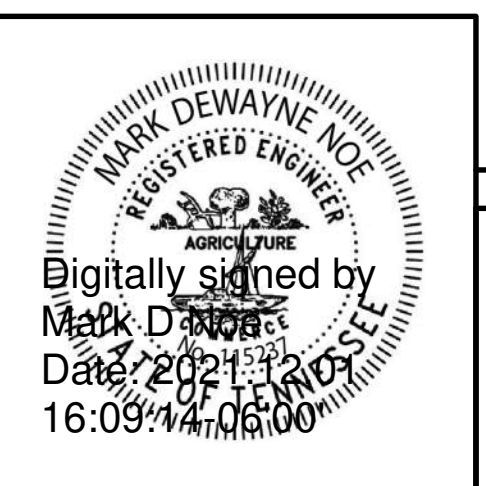
THE DOCUMENT BEARING THIS STAMP HAS BEEN RECEIVED AND REVIEWED BY THE CITY OF MEMPHIS DIVISION OF ENGINEERING UNDER AUTHORITY DELEGATED BY THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF WATER POLLUTION CONTROL. IT IS HEREBY APPROVED FOR CONSTRUCTION BY THE CITY ENGINEER AS EVIDENCED BY HIS SIGNATURE IN THE TITLE BLOCK BELOW.

APPROVAL EXPIRES 1 YEAR FROM APPROVAL DATE BELOW. THIS APPROVAL SHALL NOT BE CONSTRUED AS CREATING A PRESUMPTION OF CORRECT OPERATION OR AS WARRANTING BY THE CITY ENGINEER THAT THE APPROVED FACILITIES WILL REACH THE DESIRED GOALS.

FLOOD HAZARD NOTE:
THE SUBJECT PROPERTY IS LOCATED IN A SPECIAL FLOOD HAZARD AREA ZONE "AE" (AREAS SUBJECT TO INUNDATION BY THE 1-PERCENT ANNUAL CHANCE FLOOD EVENT DETERMINED BY DETAILED METHODS) AS PER FLOOD LINES ESTABLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY AS SHOWN ON FLOOD INSURANCE RATE MAP NUMBER 4715700170F, DATED SEPTEMBER 28, 2007. THE NEAREST BFE IS 236.0 FEET.

BENCHMARK NOTE:
CITY OF MEMPHIS BENCHMARK NUMBER 1599 - BLUFFWOOD DR. & ROYAL ELM CV.: CITY CAP IS LOCATED THE N.E. COR., GLUED TO TOP OF CURB AT ER ON BLUFFWOOD DR. SIDE. GPS 704, ELEVATION: 252.7

REVISION	APPROVAL DATE
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SEWER BASIN: LN 03 C1.01

DIVISION OF ENGINEERING
SEWER LAYOUT PLAN
LOCATION: 5230 RALEIGH MILLINGTON LIFT STATION
MEMPHIS, TENNESSEE

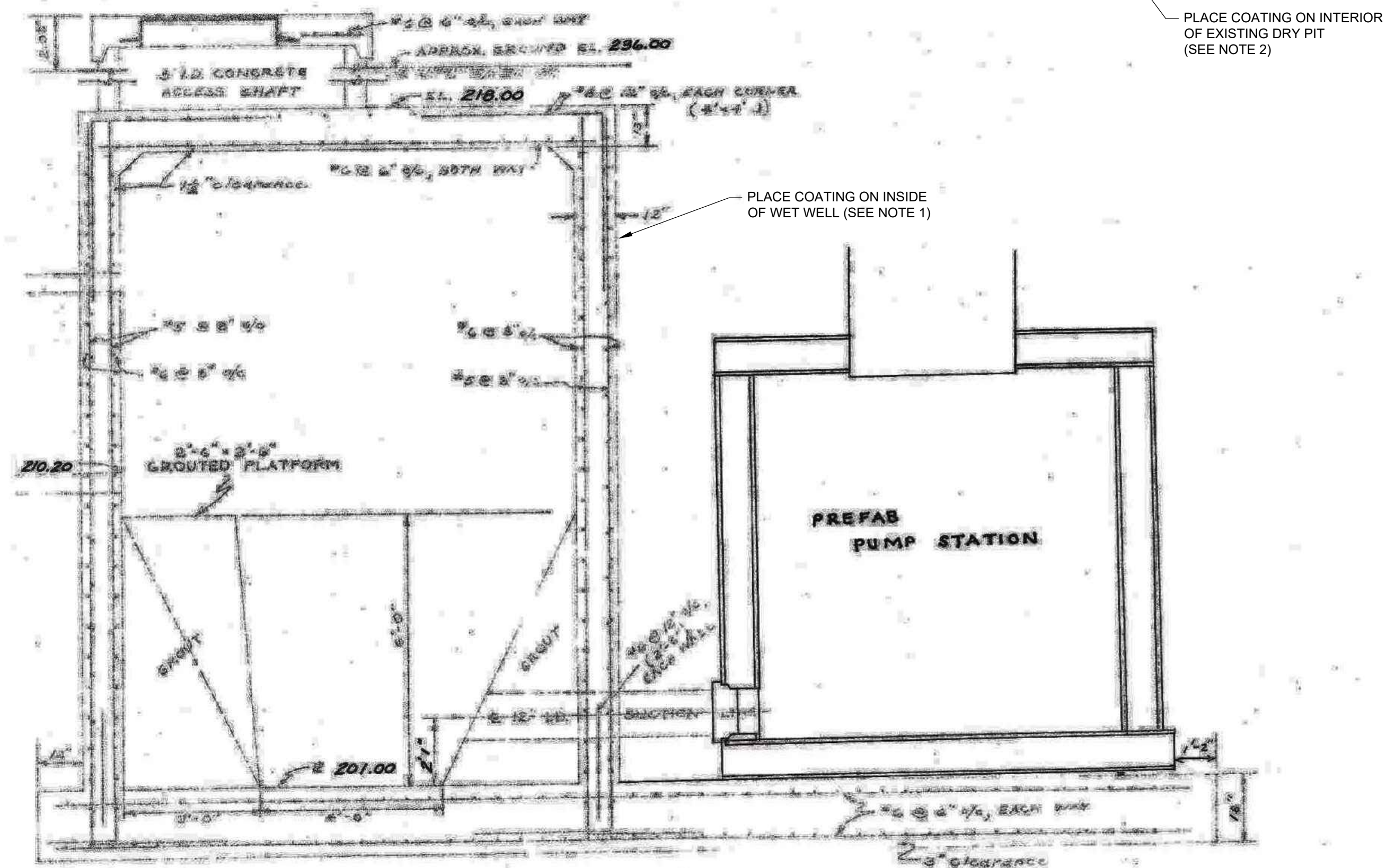
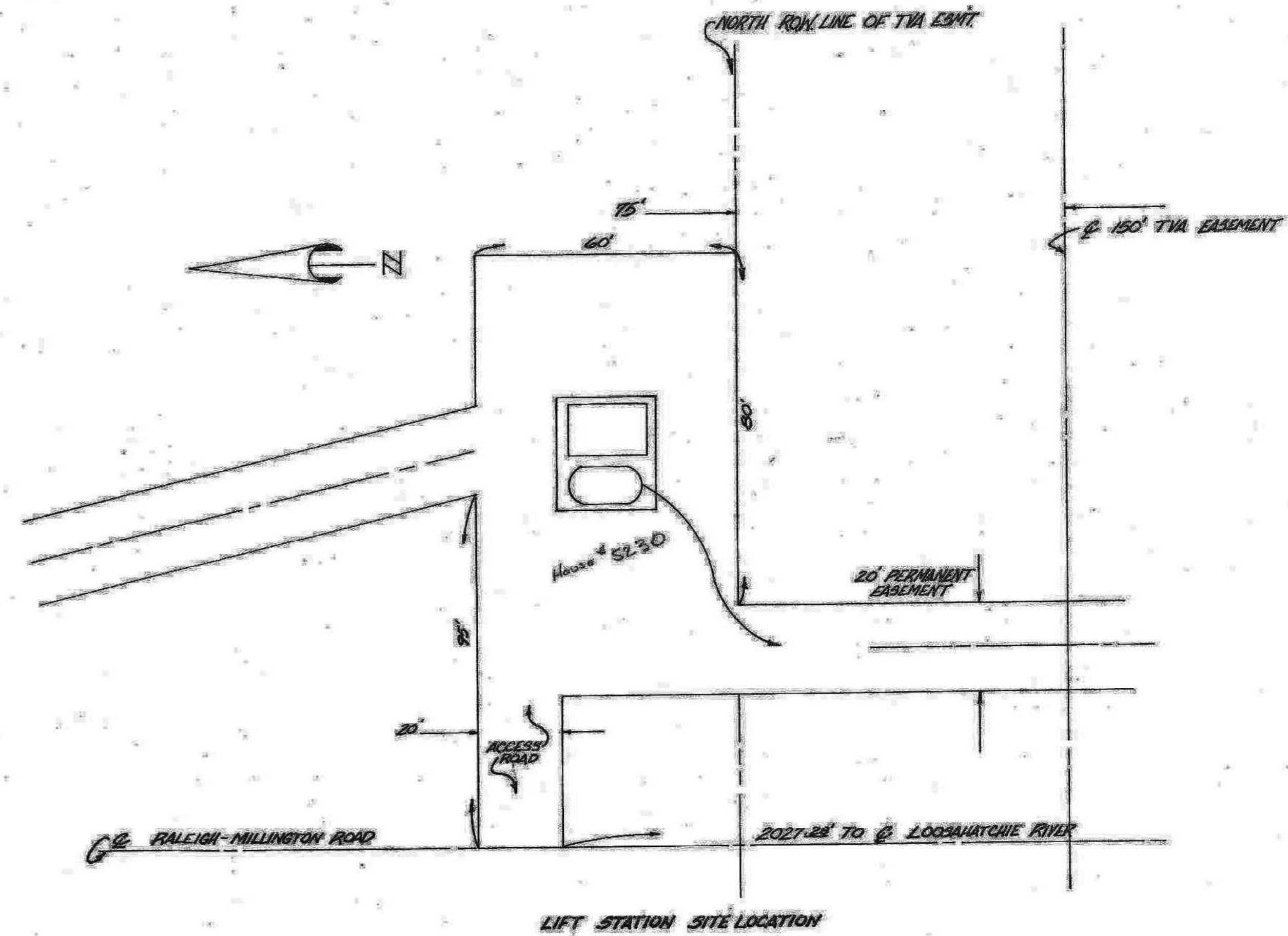
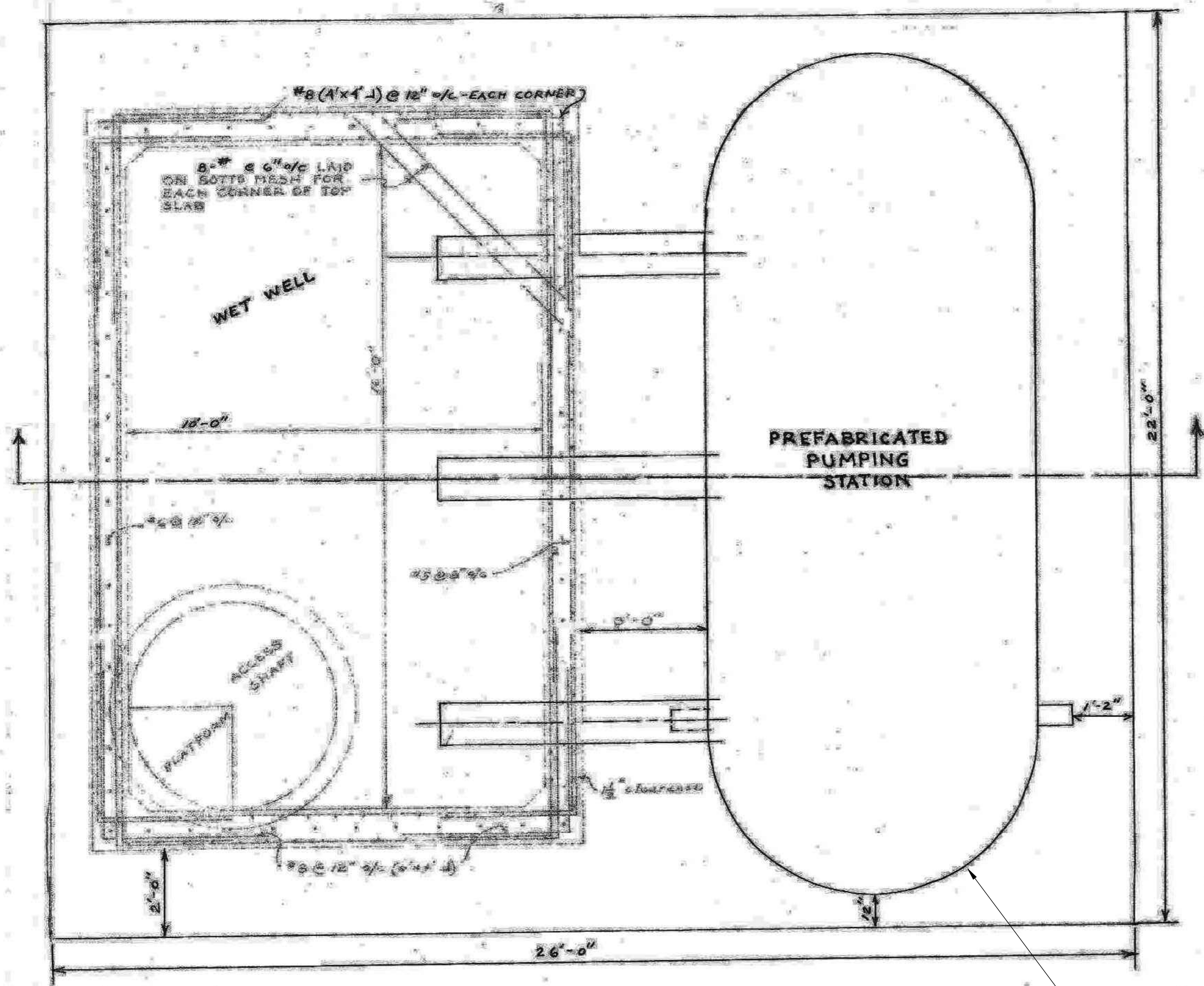
SURVEY: DATE: PROJECT NO.: 36592-04
DESIGN BY: BARGE DATE: 07/2021 SCALE: 1" = 5'
REVIEWED:



Lift Station Rehab Design Group 2-B
MEMPHIS, TENNESSEE
DEVELOPER: SARP10
ENGINEER: BARGE DESIGN SOLUTIONS, INC.

DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

7/28/2021 8:09 AM C:\Users\Santer\Desktop\3659204\04_CAD\WATER\01 - 5230 Raleigh Millington\03 - PLO\3659204-C1.01-5230 Raleigh Millington_C1.01.dwg



EXISTING LIFT STATION
N.T.S.

NOTES:

- CONTRACTOR SHALL APPLY COATING SYSTEM TO ALL INTERIOR SURFACES OF THE WET WELL PER CITY OF MEMPHIS STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL APPLY COATING SYSTEMS LISTED IN TABLE BELOW TO ALL INTERIOR WALLS AND FLOORS OF THE DRY PIT PER MANUFACTURER SPECIFICATIONS. SURFACE PREPARATION SHALL BE MADE IN COMPLIANCE WITH SSPC SP 10. CONTRACTOR SHALL TEST COATING SYSTEM PER MANUFACTURER RECOMMENDATIONS. COLOR OF COATING SYSTEM TO BE SELECTED BY OWNER.
- RECORD DRAWINGS DRAWN BY THE CITY OF MEMPHIS DEPARTMENT OF ENGINEERING - BUREAU OF SEWER DESIGN, TITLED "LUCY SEWER DISTRICT OUTFALL TO RALEIGH - NORTH SUBDIVISION".

- PUMP 1/2 DATA:
- MANUFACTURER: SMITH & LOVELESS
 - TYPE: SUBMERSIBLE CENTRIFUGAL
 - CAPACITY: APPROX. 2250 GPM @ 51 FT OF HEAD
 - PUMP MODEL: 8D4B
 - MOTOR HP: 40

- PUMP 3 DATA:
- MANUFACTURER: SMITH & LOVELESS
 - TYPE: SUBMERSIBLE CENTRIFUGAL
 - CAPACITY: APPROX. 3000 GPM
 - PUMP MODEL: 8D5
 - MOTOR HP: 75

Coat	Carboline	Tnemec	Sherwin Williams
1st	Carboguard 890 (4-6) or Carboguard 60 (4-10)	Tnemec Series 104 (6-10)	Macropoxy 646 (5-10)
2nd	Carboguard 890 (4-6) or Carboguard 60 (4-10)	Tnemec Series 104 (6-10)	

(Dry Film Thickness in Mils)

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BENCHMARK NOTE:
CITY OF MEMPHIS BENCHMARK NUMBER 1599 - BLUFFWOOD DR. & ROYAL ELM CV. CITY CAP IS LOCATED THE N.E. COR., GLUED TO TOP OF CURB AT ER ON BLUFFWOOD DR. SIDE. GPS 704, ELEVATION: 252.7

REVISION	DESCRIPTION OF CHANGE	APPROVAL DATE
0	ISSUED FOR CONST.	7/28/2021

Digitally signed by Mark D. Nide
Date: 2021.07.28 10:47:22 -0500

SEWER BASIN: LN 03 C1.02

DIVISION OF ENGINEERING
EXISTING CONDITIONS
LOCATION: 5230 RALEIGH MILLINGTON LIFT STATION
MEMPHIS, TENNESSEE

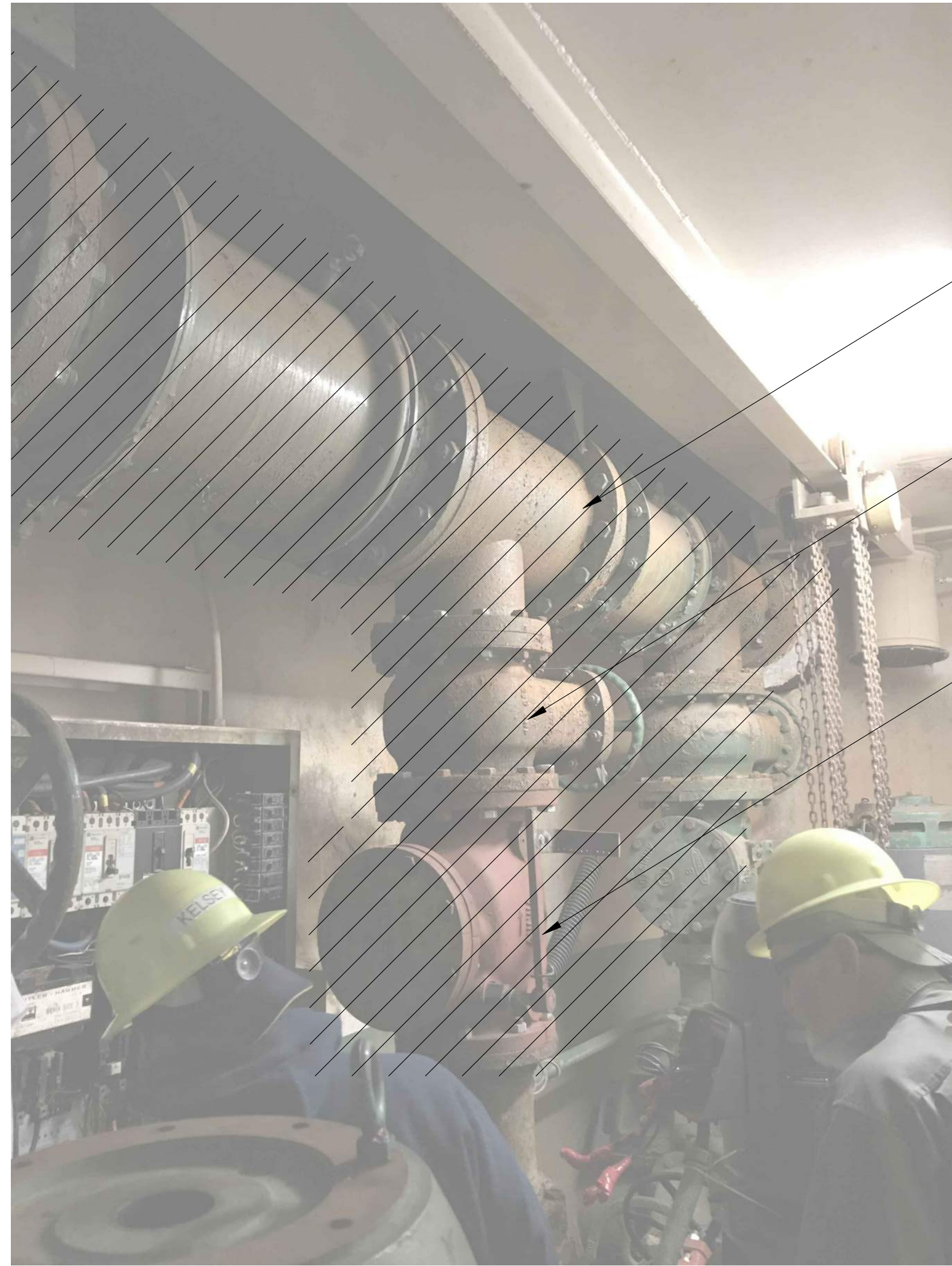
SURVEY: DESIGN BY: BARGE DATE: 07/2021 PROJECT NO.: 36592-04 SCALE: N.T.S. REVIEWED:

DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE



Lift Station Rehab Design Group 2-B
MEMPHIS, TENNESSEE
DEVELOPER: SARPIO
ENGINEER: BARGE DESIGN SOLUTIONS, INC.

7/28/2021 8:11 AM
C:\Users\mdecker\OneDrive\Documents\3659204\04_CAD\WATER\01 - 5230 Raleigh Millington\03 - PLOT\3659204_C1.02_5230 Raleigh Millington_C3D18.dwg



REPLACE EXISTING 14" DISCHARGE HEADER WITH 14" DIP (SEE NOTE 3)

REPLACE 2 EXISTING 10" GATE VALVES

REPLACE 2 EXISTING 10" CHECK VALVES

REPLACE EXISTING 10" GATE VALVES AND SUCTION PIPING FOR EACH PUMP WITH 10" DIP



REMOVE ALL THREE EXISTING PUMPS. INSTALL TWO NEW PUMPS PER SPECIFICATIONS. ONE PUMP SLOT TO REMAIN OPEN FOR A FUTURE PUMP (SEE NOTE 4).

LIFT STATION IMPROVEMENTS

N.T.S.

NOTES:

- EXISTING PUMP AND PIPE LOCATION AND CONDITION SHOULD BE CONFIRMED PRIOR TO REPLACEMENT.
- CONTRACTOR TO SUPPLY AND INSTALL ADDITIONAL PIPING AND FITTINGS AS NECESSARY TO MATCH EXISTING PIPING CONNECTIONS.
- ALL EXISTING SUCTION AND DISCHARGE PIPING WITHIN THE DRY PIT IS TO BE REPLACED PER SPECIFICATIONS UP TO THE WALL CONNECTIONS.
- FOR FUTURE PUMP SLOT, INSTALL NEW DISCHARGE DIP, 10" GATE VALVE, AND 10" BLIND FLANGE. ON THE SUCTION SIDE, INSTALL NEW DIP, GATE VALVE, AND BLIND FLANGE.
- EXISTING PUMP DATA COLLECTED FROM THE "FINAL ASSESSMENT REPORT FOR 4486 WINDOW - SARP10 LIFT STATION ASSESSMENT PROJECT FOR THE CITY OF MEMPHIS" DATED APRIL 6, 2019.

- PUMP 1/2 DATA:**
- MANUFACTURER: FLYGT
 - TYPE: SUBMERSIBLE CENTRIFUGAL
 - CAPACITY: APPROX. 2870 GPM @ 56.8 FT OF HEAD
 - MODEL: NT 3203 MT 3 PHASE
 - MOTOR HP: 60

FLOOD HAZARD NOTE:
THE SUBJECT PROPERTY IS LOCATED IN A SPECIAL FLOOD HAZARD AREA ZONE "AE" (AREAS SUBJECT TO INUNDATION BY THE 1-PERCENT ANNUAL CHANCE FLOOD EVENT DETERMINED BY DETAILED METHODS) AS PER FLOOD LINES ESTABLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY AS SHOWN ON FLOOD INSURANCE RATE MAP NUMBER 47157C0170F, DATED SEPTEMBER 28, 2007. THE NEAREST BFE IS 236.0 FEET.

BENCHMARK NOTE:
CITY OF MEMPHIS BENCHMARK NUMBER 1599 - BLUFFWOOD DR. & ROYAL ELM CV.: CITY CAP IS LOCATED THE N.E. COR., GLUED TO TOP OF CURB AT ER ON BLUFFWOOD DR. SIDE. GPS 704, ELEVATION: 252.7

REVISION	DESCRIPTION OF CHANGE	APPROVAL DATE
0	ISSUED FOR CONST.	7/28/2021

Digitally signed by Mark D. Nide
Date: 2021.07.28 10:46:56-0500'

SEWER BASIN: LN 03 C2.01

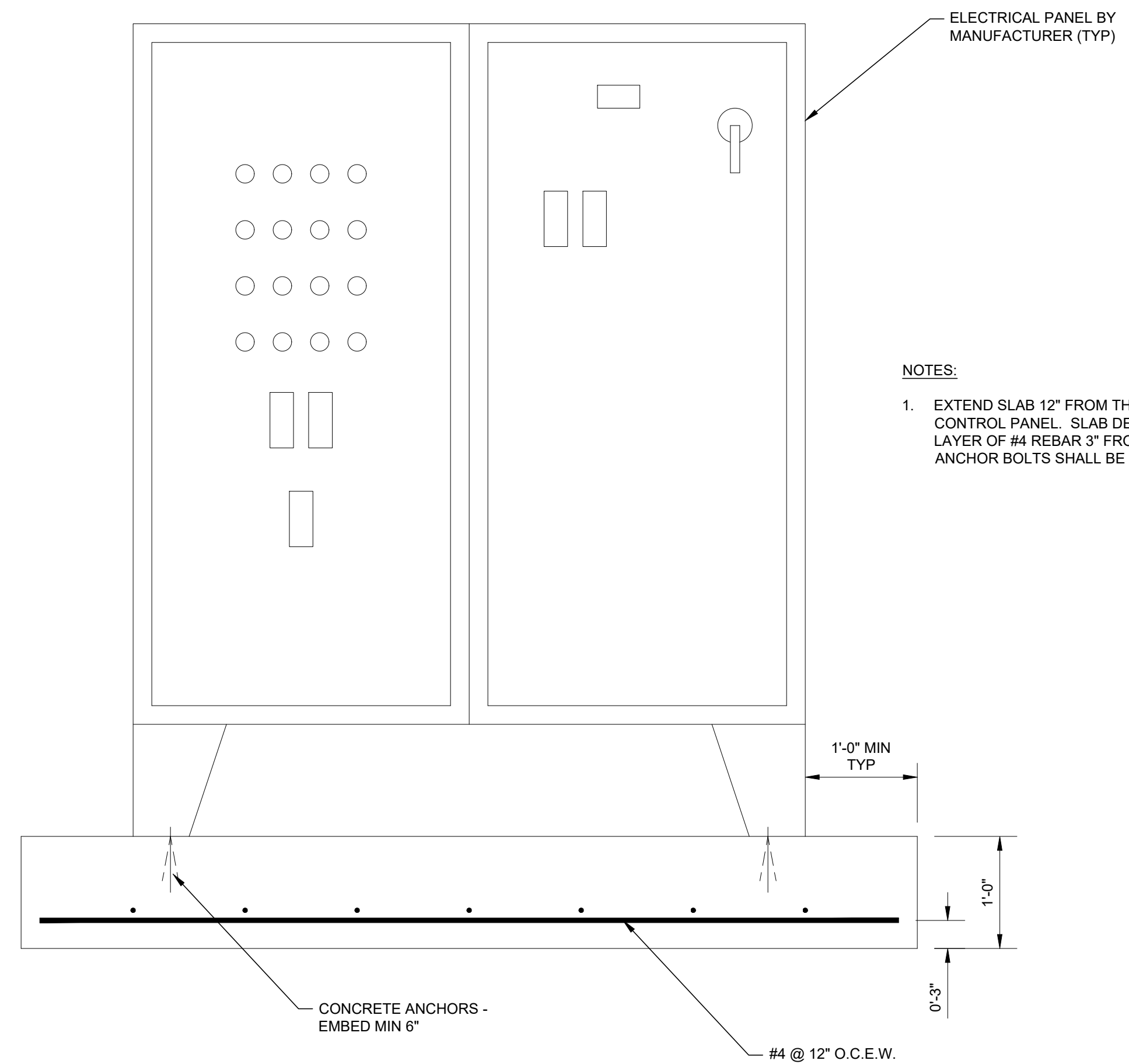
DIVISION OF ENGINEERING
LIFT STATION IMPROVEMENTS
LOCATION: 5230 RALEIGH MILLINGTON LIFT STATION
MEMPHIS, TENNESSEE

SURVEY: DESIGN BY: BARGE DATE: 07/2021 PROJECT NO.: 36592-04 SCALE: N.T.S. REVIEWED:



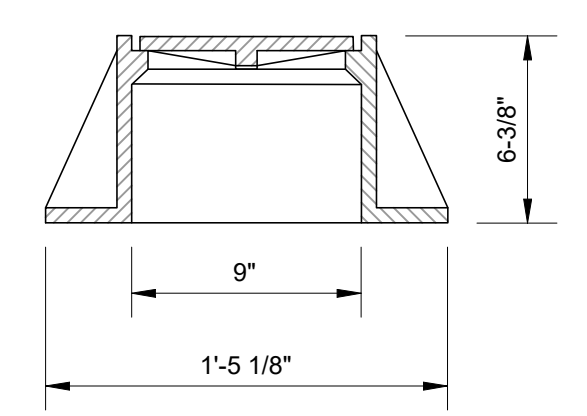
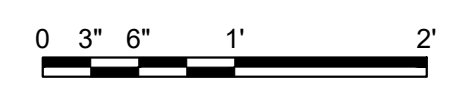
Lift Station Rehab Design Group 2-B
MEMPHIS, TENNESSEE
DEVELOPER: SARP10
ENGINEER: BARGE DESIGN SOLUTIONS, INC.

DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

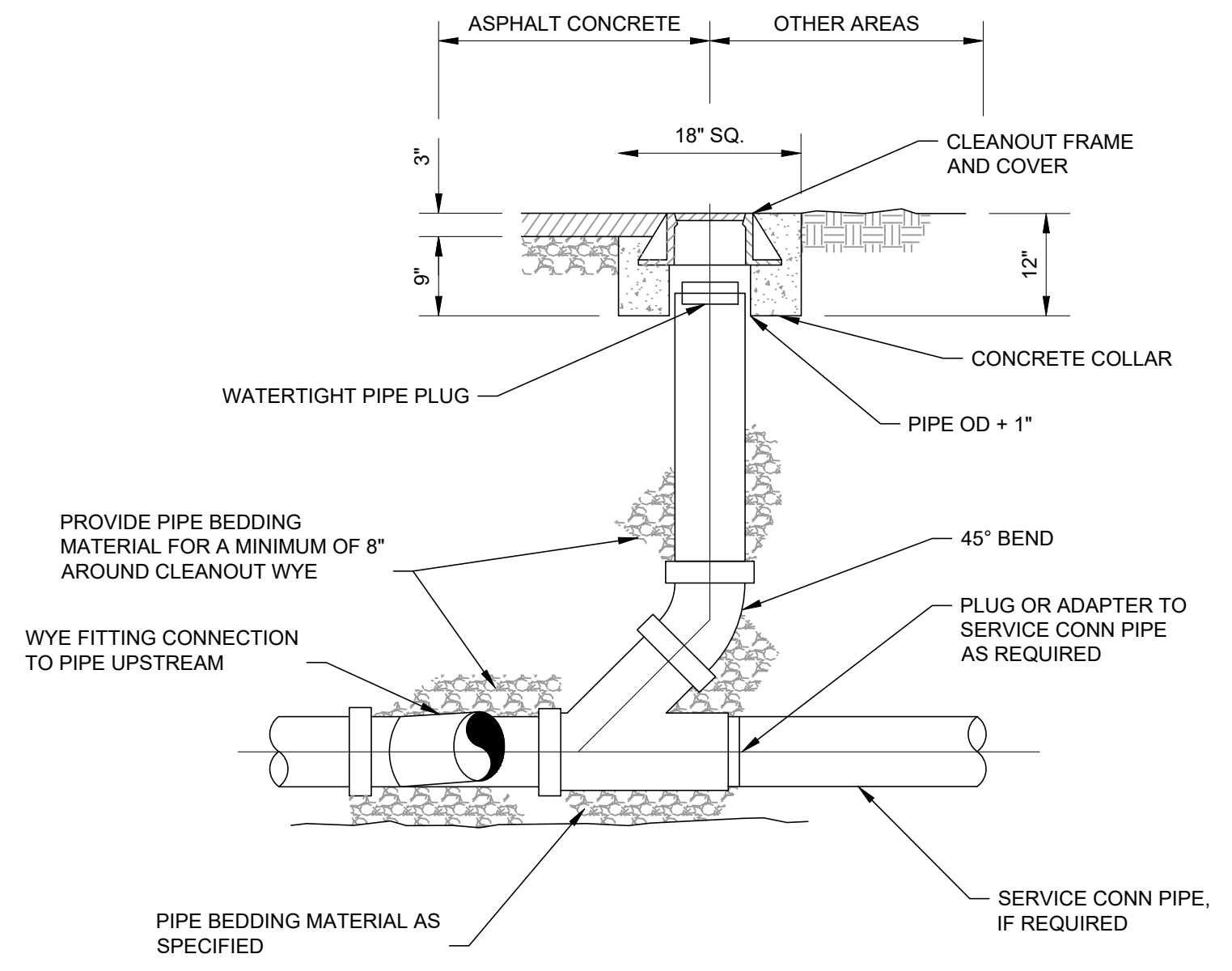


NOTES:
 1. EXTEND SLAB 12" FROM THE ENDS, FACE, AND BACK OF THE CONTROL PANEL. SLAB DEPTH SHOULD BE 12". ADD A LAYER OF #4 REBAR 3" FROM THE BOTTOM AT 12" O.C. E.W. ANCHOR BOLTS SHALL BE EMBEDDED A MINIMUM OF 6".

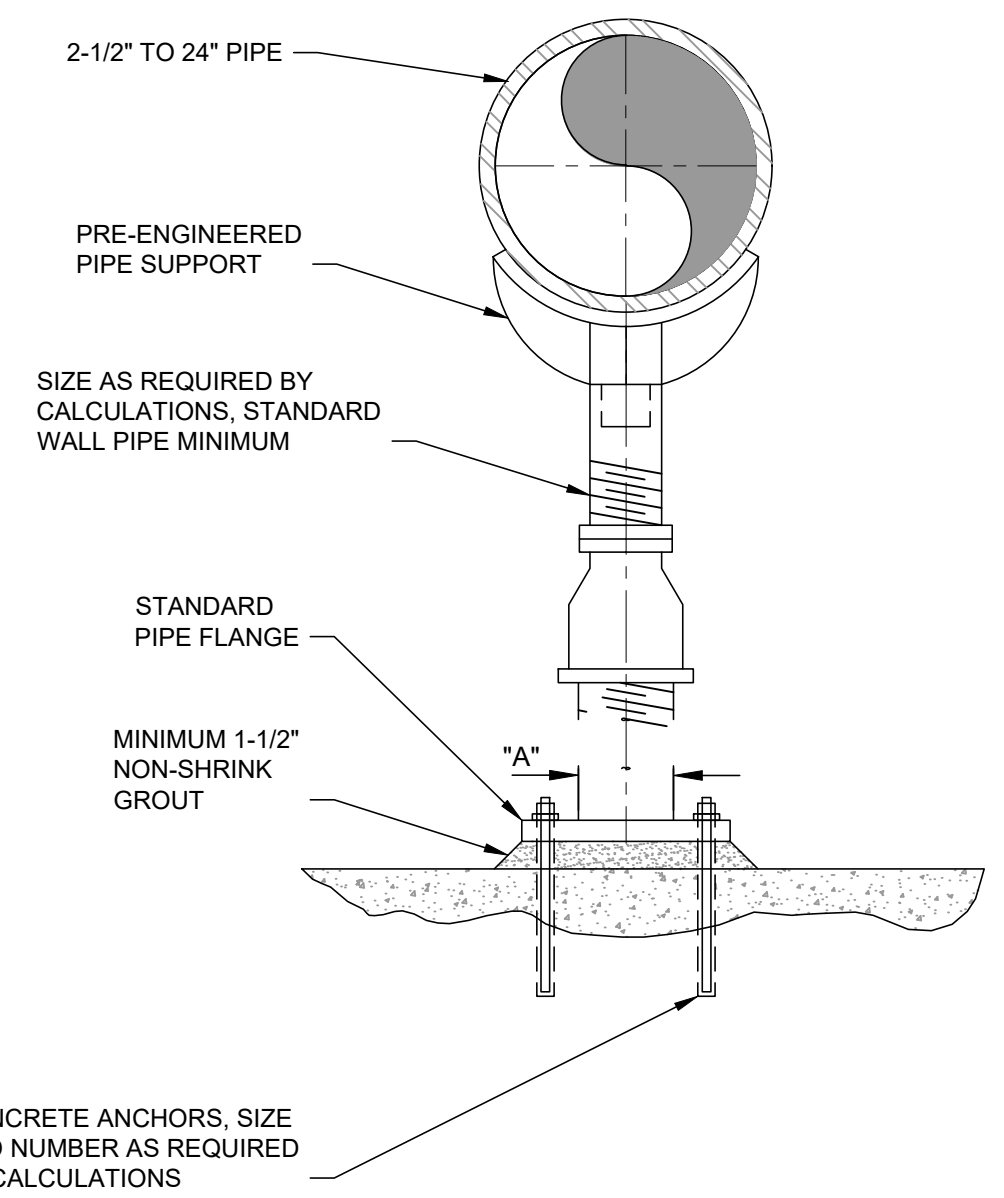
1 CONTROL PANEL W/ MOUNTING SLAB
 C7.01 1" = 1'-0"



CLEANOUT FRAME AND COVER



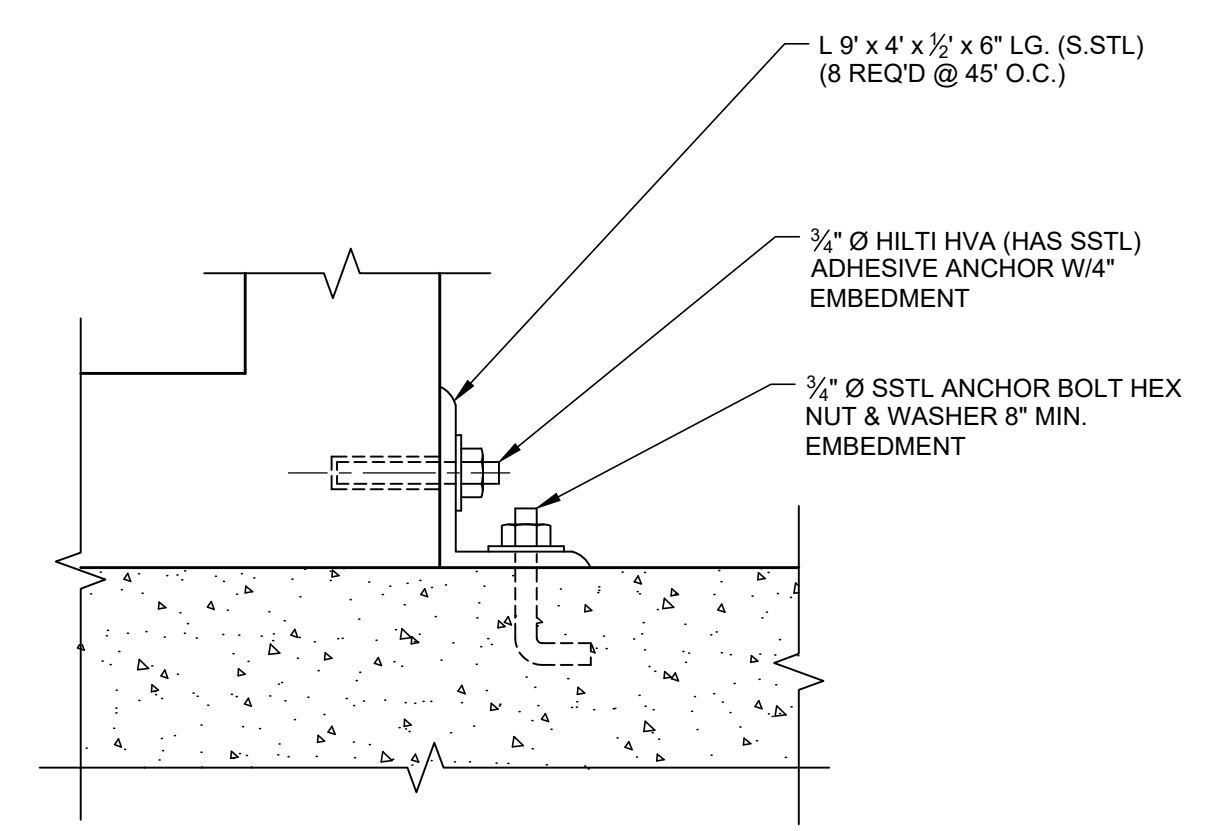
2 EXTERIOR CLEANOUT
 C7.01 N.T.S.



NOTES:
 1. SUBMIT FINAL DESIGN AND CALCULATIONS FOR SUPPORT AND ANCHORAGE AS SPECIFIED.

3 PIPE SUPPORT SADDLE - ADJUSTABLE PEDESTAL
 C7.01 N.T.S.

DIMENSION TABLE	
PIPE SIZE	"A" MINIMUM NOMINAL PIPE SIZE
2-1/2"	2-1/2"
3"	2-1/2"
4"	3"
6"	3"
8"	3"
10"	3"
12"	3"
14"	4"
16"	4"
20"	6"
24"	6"



4 ANCHOR DETAIL
 C7.01 N.T.S.

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BENCHMARK NOTE:
 CITY OF MEMPHIS BENCHMARK NUMBER 1599 - BLUFFWOOD DR. & ROYAL ELM CV.: CITY CAP IS LOCATED THE N.E. COR., GLUED TO TOP OF CURB AT END ON BLUFFWOOD DR. SIDE. GPS 704, ELEVATION: 252.7

REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE
0	ISSUED FOR CONST.	7/28/2021



SEWER BASIN: LN 03 C7.01

DIVISION OF ENGINEERING

DETAILS

LOCATION: 5230 RALEIGH MILLINGTON LIFT STATION
 MEMPHIS, TENNESSEE

SURVEY: DATE: PROJECT NO.: 36592-04
 DESIGN BY: BARGE DATE: 07/2021 SCALE: NONE
 REVIEWED:

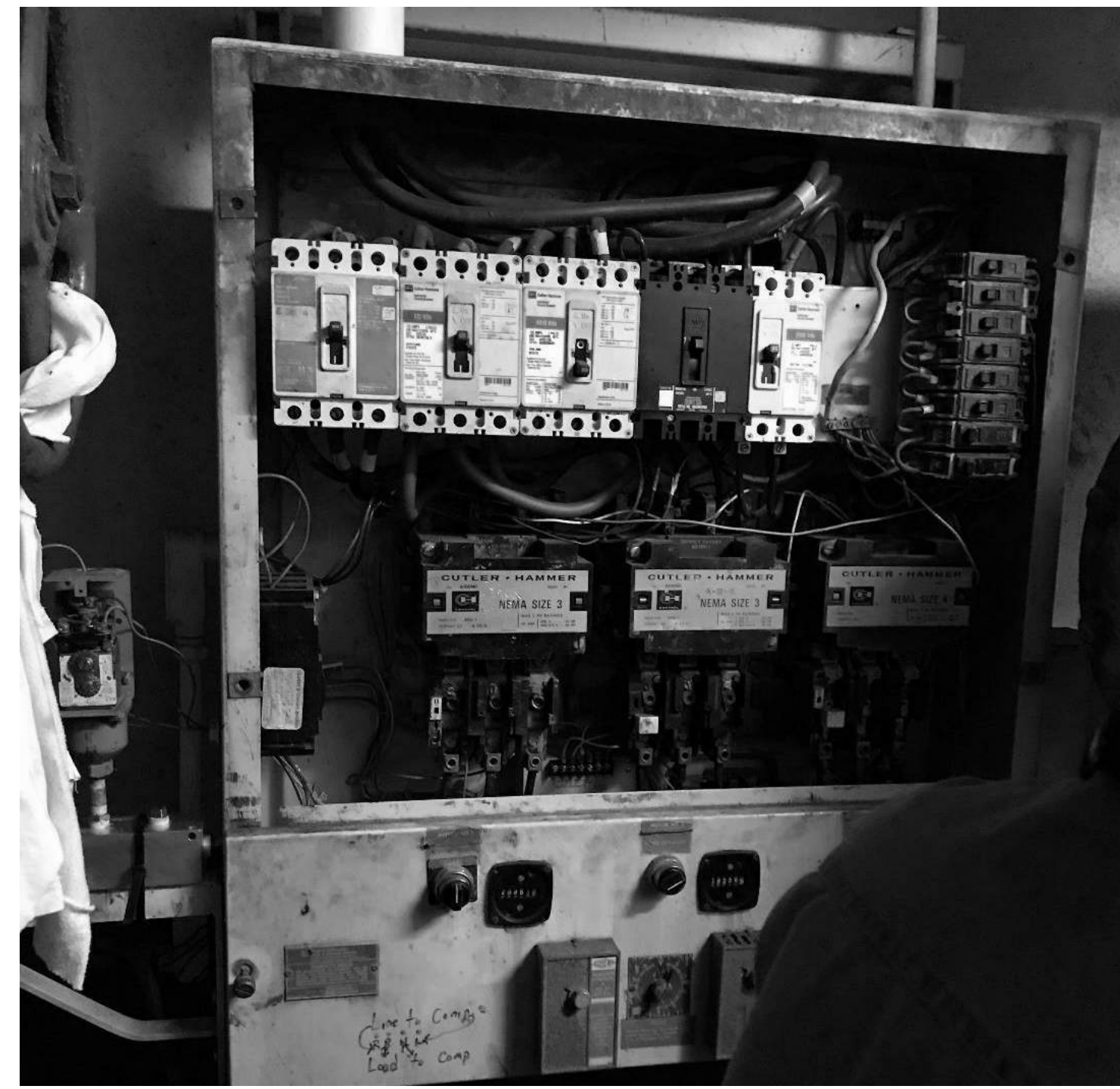
DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

Lift Station Rehab Design Group 2-B
 MEMPHIS, TENNESSEE
 DEVELOPER: SARP10
 ENGINEER: BARGE DESIGN SOLUTIONS, INC.

7/28/2021 8:21 AM
 Caroline Sanders
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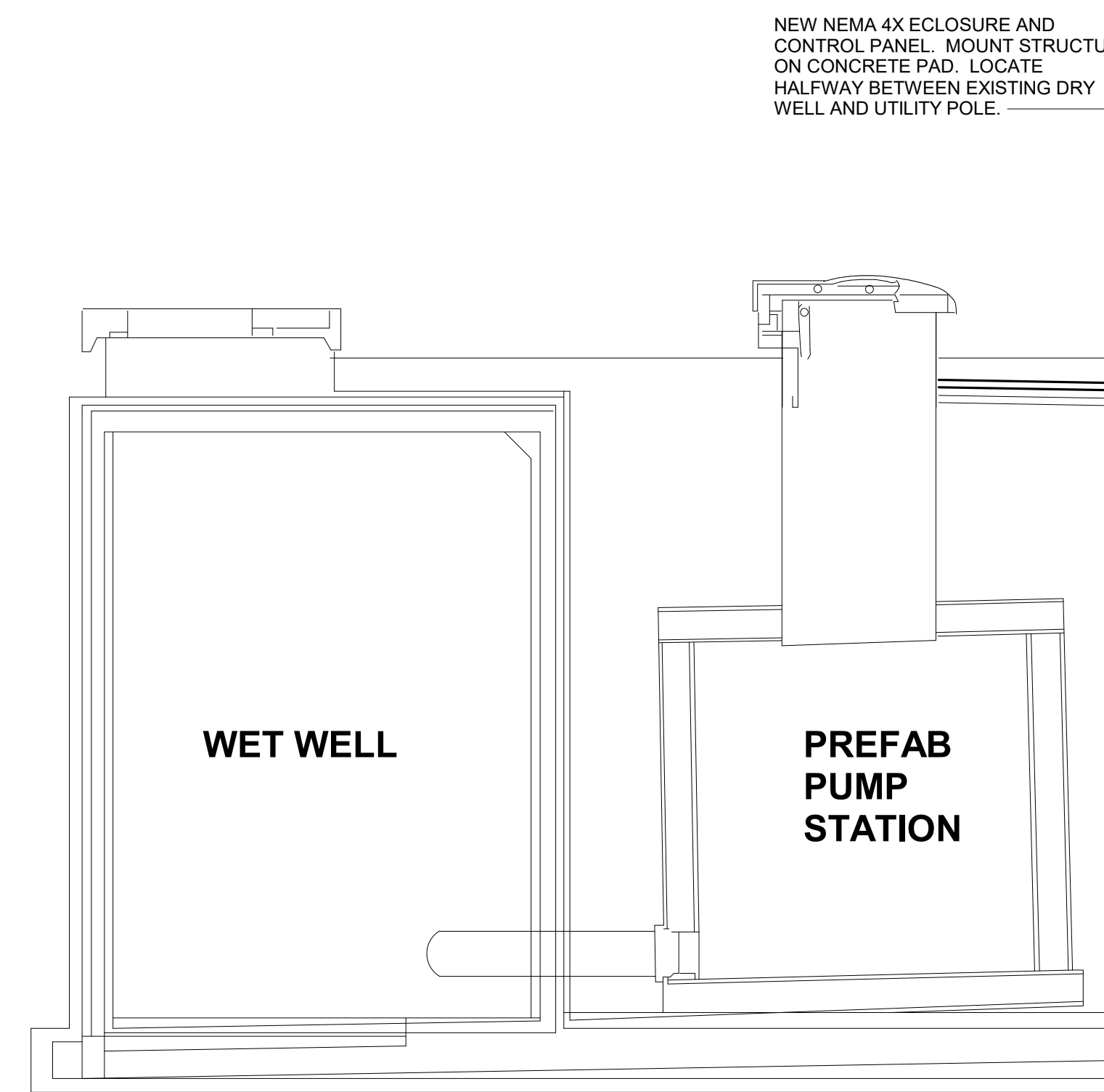
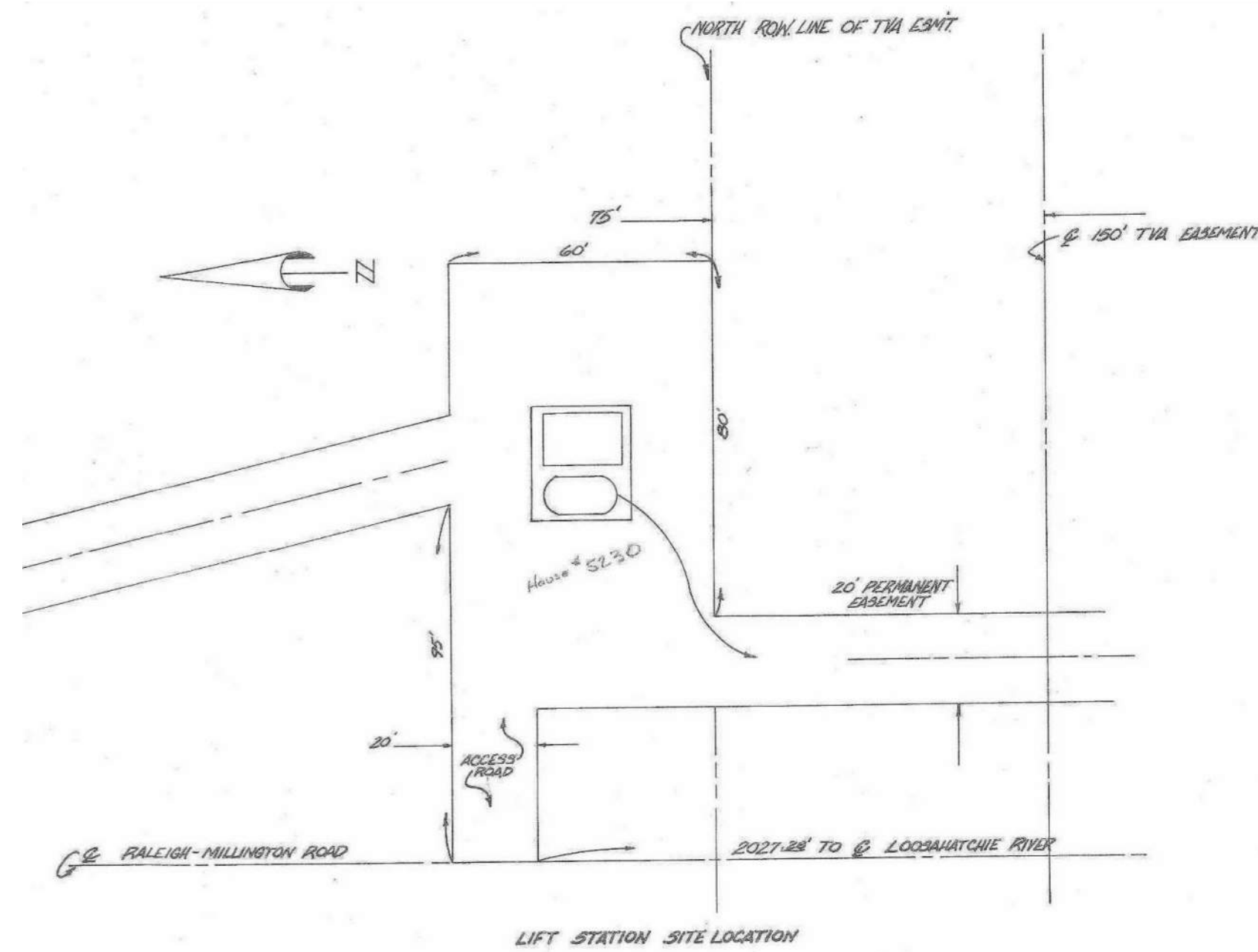
PUMP STATION METER AND DISCONNECT



PUMP STATION CONTROL PANEL



BUBBLER SYSTEM

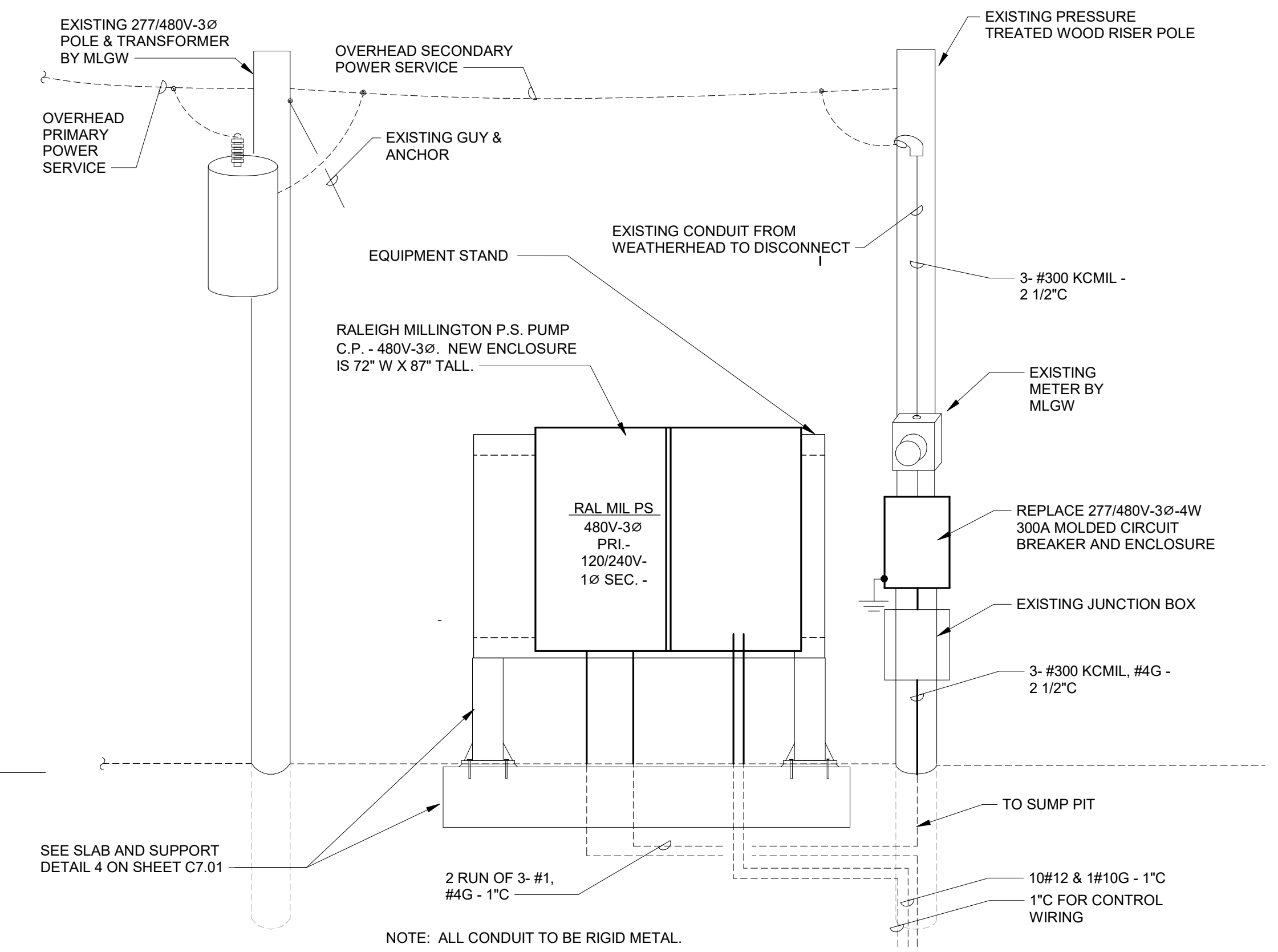


CODE ANALYSIS - INTERNATIONAL BUILDING CODE 2015

CODE COMMENTS	
JURISDICTION	Memphis and Shelby County Construction Code Enforcement
APPLICABLE CODES	2015 International Building Code with Local Amendments 2015 International Existing Building Code with Local Amendments 2015 International Residential Code with Local Amendments 2014 National Electrical Code 2018 Joint Electrical Code 2015 International Mechanical Code with Local Amendments 2015 International Fuel Gas Code with Local Amendments 2015 International Plumbing Code with Local Amendments 2015 International Energy Conservation Code with Local Amendments 2009 ICC A117.1 Accessibility and Useable Buildings and Facilities (by reference) 2013 ASME 17.1 Safety Code for Elevators and Escalators (by reference)

GENERAL PROJECT NOTES:

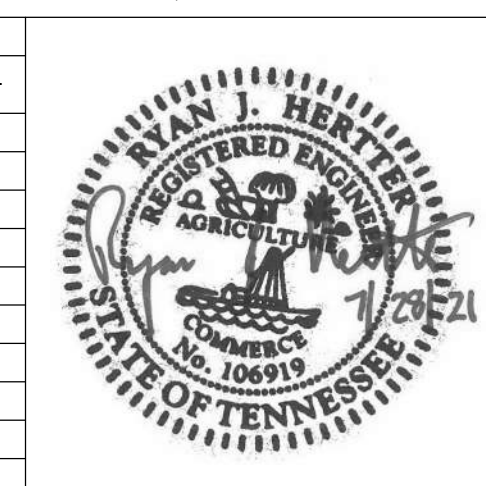
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE, AND ALL OTHER APPLICABLE STANDARDS AND REGULATIONS ENFORCED BY THE AUTHORITY HAVING JURISDICTION.
- ALL ABOVE GROUND EXTERIOR CONDUIT SHALL BE GALVANIZED RIGID STEEL CONDUIT WITH CORROSION RESISTANT FITTINGS, CLAMPS AND SUPPORT.
- IN THE EVENT OF CONFLICTS BETWEEN THE DRAWINGS, SPECIFICATIONS, CODES AND REGULATIONS, NOTIFY THE ENGINEER OF RECORD FOR HIS OPINION PRIOR TO INSTALLATION.
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL AND TO THE ENGINEER FOR REVIEW.
- SMACNA SEISMIC RESTRAINT MANUAL, THIRD EDITION 2008, OR LATEST REVISION MAY BE USED AS A GUIDE FOR GENERAL SEISMIC SUPPORT DETAIL AND SUPPORT SPACING RECOMMENDATIONS.
- COORDINATE LOCATION OF ALL LIGHTING FIXTURES, MECHANICAL EQUIPMENT AND ACCESS PANELS WITH EXISTING CONDITIONS PRIOR TO ROUGH-IN.
- WHILE EFFORT HAS BEEN MADE TO IDENTIFY EXISTING CIRCUITS THAT ARE TO BE REMOVED OR REPLACED, THE INFORMATION MAY NOT BE ACCURATE.
- ELECTRICAL CONTRACTOR SHALL VERIFY VOLTAGE AND AMP DRAW FOR ALL NEW EQUIPMENT.
- ALL ELECTRICAL GEAR SHALL BE MOVED FROM THE PIT TO ABOVE GROUND. VERIFY NEW CONTROL PANEL WORKS WITH ANY REMAINING EQUIPMENT OR CONTROLS IN THE PIT.
- REPLACE THE (2) 40HP PUMP AND (1) 75HP PUMP WITH (2) 60HP PUMPS. RUN NEW WIRE AND CONDUIT FROM THE NEW CONTROL PANEL ABOVE GRADE TO THE TWO NEW PUMPS.
- THE MAIN CONTROL PANEL IS FED WITH AN EXISTING 480V 3PH 300A MOLDED CASE CIRCUIT BREAKER ABOVE GRADE. ALL AUXILIARY EQUIPMENT IS CURRENTLY FED FROM THE CONTROL PANEL IN THE PIT. EXTEND POWER TO LIGHT, SUMP PUMP, BLOWER/DEHUMIDIFIER, & AIR COMPRESSOR USING ISO CABLE FROM THE NEW ENCLOSURE ABOVE GRADE TO THE EQUIPMENT. REPLACE 300A CIRCUIT BREAKER AND ENCLOSURE.
- USE KELLUM TYPE WIRE MESH HANGERS TO SUPPORT ALL CORDS COMING FROM THE PUMP STATION CEILING. PROVIDE CLIPS ON THE WALL TO KEEP CORDS CLEAR OF SERVICE AREA.



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REVISION		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE



SEWER BASIN: LN 03

E1.01

DIVISION OF ENGINEERING

ELECTRICAL PLAN

LOCATION: 5230 RALEIGH MILLINGTON LIFT STATION
MEMPHIS, TENNESSEE

SURVEY: DATE: PROJECT NO.:
DESIGN BY: BARGE DATE: 9/2020 SCALE: N.T.S. 36592-04
REVIEWED:

DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

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Lift Station Rehab Design Group 2-B
MEMPHIS, TENNESSEE
DEVELOPER: SARP 10
ENGINEER: BARGE DESIGN SOLUTIONS, INC.