

SYMBOL SCHEDULE – ELECTRICAL

SYMBOL		DESCRIPTION	SYMBOL		DESCRIPTION
CEILING	WALL		CEILING	WALL	
	S	SINGLE-POLE TOGGLE SWITCH	A	AMP	
	S ₃	THREE-WAY TOGGLE SWITCH	AC	AIR CONDITION	
	S ₄	FOUR-WAY TOGGLE SWITCH	AFF	ABOVE FINISHED FLOOR	
	S _p	TOGGLE SWITCH WITH PILOT LIGHT	ANN	ANNUNCIATOR PANEL	
	S _x	KEY OPERATED TOGGLE SWITCH	C	CONDUIT	
		PUSHBUTTON STATION	C/B	CIRCUIT BREAKER	
		DUPLEX OUTLET (15 AMP, 125 VOLT, NEMA 5-15R)	EOLR	END OF LINE RESISTOR	
		DUPLEX OUTLET (20AMP, 120 VOLT, NEMA 5-20R)	GFI	GROUND FAULT INTERRUPTER	
		BRANCH CIRCUIT EMERGENCY PANELBOARD	GND	GROUND	
		BRANCH CIRCUIT PANELBOARD	P	POLE	
		DISTRIBUTION PANELBOARD	UON	UNLESS OTHERWISE NOTED	
		DISCONNECT SWITCH – FUSED UNLESS OTHERWISE NOTED	V	VOLT	
		JUNCTION BOX WITH FIXTURE WHIP	WH	WATER HEATER	
		JUNCTION BOX	W	WIRE	
		PULLBOX OR TROUGH		TELEPHONE BACKBOARD	
		MOTOR – SINGLE-PHASE (NUMERAL DENOTES HORSEPOWER)		NOTE REFERENCE	
		MOTOR – THREE PHASE (NUMERAL DENOTES HORSEPOWER)		HOMERUN TO PANELBOARD WITH NOMENCLATURE (LETTERS), CIRCUIT NUMBERS (NUMBERS), NUMBER OF PHASE AND NEUTRAL CONDUCTORS WHEN MORE THAN TWO (HASH MARKS), OPPOSITE SLANT DENOTES GROUND, NUMBER OF CIRCUITS (NUMBER OF ARROWS)	
		TERMINAL CABINET		FLOOR PLAN AND DETAIL: "X" DENOTES PLAN AND DETAIL NUMBER	
		CIRCUIT BREAKER DEVICE		SECTION: "X" DENOTES SECTION ALPHA "Y" DENOTES SHEET SECTION IS DRAWN ON	
		SWITCH DEVICE		DETAIL: "X" DENOTES DETAIL NUMBER "Y" DENOTES SHEET DETAIL IS DRAWN ON	
		FUSE		DETAIL/SECTION REFERENCE: "X" DENOTES DETAIL/SECTION NUMBER OR ALPHA "Y" DENOTES SHEET DETAIL/SECTION IS REFERENCED FROM "Z" DENOTES SHEET DETAIL/SECTION IS DRAWN ON	
		NORMALLY OPEN CONTACT		ENLARGED REFERENCE: "X" DENOTES DETAIL NUMBER "Y" DENOTES SHEET DETAIL IS DRAWN ON	
		NORMALLY CLOSED CONTACT			
		GROUND CONNECTION			
		WIRING (IN CONDUIT) CONCEALED IN CEILING OR WALL			
		WIRING (IN CONDUIT) CONCEALED IN OR UNDER SLAB			
		EMERGENCY WIRING (IN CONDUIT) CONCEALED IN CEILING OR WALL			
		WIRING (IN CONDUIT) RUN EXPOSED			
		EXISTING			
		EXISTING TO BE REMOVED			
		WIRING (IN CONDUIT) RUN UNDER GROUND			
		EXTEND EXISTING CONDUIT WITH NEW CONDUIT			
		CIRCUIT TURNED UP			
		CIRCUIT TURNED DOWN			
		OUTDOOR AERIAL CONDUCTORS			

GENERAL NOTES:

- ALL ELECTRICAL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE NFPA 70-2014.
- ALL FUSED DISCONNECT SWITCHES SERVING EQUIPMENT SUPPLIED UNDER OTHER DIVISIONS OF THE WORK SHALL BE PROVIDED WITH FUSES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER; UNLESS NOTED OTHERWISE.
- SEPARATE GREEN GROUND CONDUCTORS ARE REQUIRED FOR ALL CIRCUITS; SEE SPECIFICATIONS.
- FIRESTOP MATERIALS (U.L.LISTED) AND ARE REQUIRED AT ALL PENETRATIONS THROUGH RATED FLOORS, WALLS, CEILING AND PARTITIONS.
- CONDUCTORS SHALL BE COLOR CODED PER N.E.C. AND AS SPECIFIED. UTILIZE ONLY THE COLORS SPECIFIED AND IDENTIFY ALL CONDUCTORS AND BOXES.
- WRITTEN SPECIFICATIONS DESCRIBING MATERIALS AND METHODS ARE PART OF DIVISION 16 AND SHALL BE UTILIZED THROUGHOUT THE CONSTRUCTION OF THE PROJECT.

LIGHT FIXTURE SCHEDULE

- F1 STANCHION-MOUNT, LED VAPORTITE; UL1598 WET LOCATION LISTED; DIE CAST, LOW-COPPER ALLOY ALUMINUM HOUSING; 25-DEGREE STANCHION WITH 1-1/4 INCH HUB; FROSTED GLASS GLOBE; UNIVERSAL 120-277-VOLT LED DRIVER; 1800 INITIAL LUMENS (NOMINAL); 70 CRI.
- F2 LED FLOODLIGHT; UL1598 WET LOCATION LISTED; IP66 RATED; CORROSION-RESISTANT, DIE CAST ALUMINUM HOUSING; UV STABILIZED ACRYLIC LENS; FULLY GASKETED; KNUCKLE MOUNT; WIDE DISTRIBUTION; UNIVERSAL 120-277-VOLT LED DRIVER WITH OUTPUT OVER-POWER AND OVER-VOLTAGE PROTECTION; INTEGRAL 10KA SURGE PROTECTION; 3000 INITIAL LUMENS (NOMINAL); 70 CRI; 25 WATTS. PROVIDE KNUCKLE-TO-SLIPFITTER ADAPTER FOR MOUNTING TO BULLHORN.

PANEL NAME:		LL-P#	NUMBER OF PHASES:	3	PROJECT NAME:	MARVIN BRAUD PUMP STATION						
VOLTAGE:		208Y/120	NEUTRAL BUS:	Y	PROJECT NUMBER:	12/16/2021						
BUS SIZE (AMPS):		100	GROUND BAR:	Y	DATE:	06/03/2021						
MAIN CIRCUIT BREAKER SIZE:		MLO	MOUNTING:	Y SURFACE	SECTION 1							
AIC RATING:		10 KA	FEED-THRU LUGS:	N	ITEM							
EST. SSC AMPS AVAILABLE:		< 10 KA	OTHER OPTIONS:		AMP RATING							
ITEM	AMP RATING	# POLES	# CKT	LEFT LOADING			RIGHT LOADING			CKT #	# POLES	ITEM
1	20	1		A	B	C	A	B	C	3	40	JACKET WATER HEATER
3	20	1			0			2000	2000			
5	20	1				0						
7				600			600					
9	20	3			600			600		3	20	FLOOD GATE ACTUATOR
11								600				
13												USEABLE SPACE
16												USEABLE SPACE
17												USEABLE SPACE
				1200	600	600	2600	2600	2600			
TOTAL CONNECTED LOAD (VA):		10200	1 LIGHTS	0	1.00	0	LOAD DIVERSITY		DMND	NOTES:		
PHASE A LOADING (VA):		3800	2 RECEPT <= 10KVA	0	1.00	0				* PROVIDE FINAL TYPED WRITTEN DIRECTORY INSIDE PANEL.		
PHASE B LOADING (VA):		3200	RECEPT > 10KVA	0	0.50	0				* PROVIDE ENGRAVED PLASTIC LABEL WITH PANEL DESIGNATION ON PANEL COVER.		
PHASE C LOADING (VA):		3200	3 ACTUATOR	2400	1.00	2400				* ALL PANELS SHALL HAVE GROUND BARS AND BE GROUNDED TO CASE		
TOTAL CALCULATED LOAD (VA):		10650	4	0	1.00	0				* NEMA 12 ENCLOSURE		
			5 HEATER	6000	1.00	6000				* PANEL IS TYPICAL OF 5; # = PUMP NUMBER		
			6 BATT CHARGER	600	1.00	600						
TOTAL CALCULATED LOAD (A):		30	7	0	1.00	0						
			8	0	1.00	0						
			9	0	1.00	0						
			10	0	1.00	0						



ISSUED FOR CONSTRUCTION

NO. _____

REVISION DESCRIPTION _____

DATE _____

BY _____

DESIGNED BY: _____

APPROVED BY: _____

DATE: 06/03/2021

PROJECT NO. PA-20-06-008

FILE NAME: _____



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
ELECTRICAL LEGEND AND
NOTES

SHEET IDENTIFICATION
E001

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1 SITE PLAN - PUMP STATION
SCALE: N.T.S.



NO.	REVISION DESCRIPTION	DATE	BY

DESIGNED BY:	DESIGNED BY:
REVISED BY:	REVISED BY:
PROJECT NO.:	PROJECT NO.:
FILE NAME:	FILE NAME:
DATE:	DATE:
APPROVED BY:	APPROVED BY:
DATE:	DATE:



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
ELECTRICAL SITE PLAN -
OVERALL

SHEET IDENTIFICATION
E100

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SHEET SIZE 27" x 34"
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 kmcbride

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1 SITE PLAN - PUMP STATION - SOUTH
SCALE: N.T.S.



NO.	REVISION DESCRIPTION	DATE	BY

DESIGNED BY:	DESIGNED BY:
REVISED BY:	REVISED BY:
PROJECT NO.:	PROJECT NO.:
FILE NAME:	FILE NAME:
DATE:	DATE:
APPROVED BY:	APPROVED BY:
DATE:	DATE:



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
ELECTRICAL SITE PLAN -
PARTIAL - SOUTH OF STATION

SHEET IDENTIFICATION
E110

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SHEET SIZE 22" x 34"
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1 SITE PLAN - PUMP STATION - NORTH
SCALE: N.T.S.

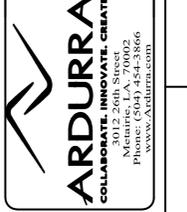
- SPECIFIC NOTES -- NORTH OF STATION**
- ① CURRENTLY, THERE ARE 5 ELECTRICAL AND COMMUNICATION CIRCUITS THAT CROSS THE EXISTING BOAT LOCK. RELOCATE AND / OR PROTECT EACH AS INDICATED ON DRAWINGS. SEE SHEETS E420-E423.
CIRCUIT 1: 1-INCH CONDUIT WITH POWER TO BARRIER GATE AND FLOOD LIGHT.
CIRCUIT 2: 1/2-INCH CONDUIT WITH CONTROL CIRCUIT SERVING BOAT LOCK PUSH BUTTONS LOCATED ON EITHER SIDE OF LOCK AND AT BRIDGE LEVEL.
CIRCUIT 3: CABLE FOR WATER LEVEL MONITORING / SCADA EQUIPMENT.
CIRCUIT 4: CABLE FOR VIDEO CAMERA.
CIRCUIT 5: POWER CABLES TO FEED LOAD CENTER NORTH OF STATION.
 - ② APPROXIMATE LOCATION OF EXISTING 100A MLO LOAD CENTER FED FROM PUMP STATION. MAINTAIN AERIAL FEED TO POLE THROUGHOUT CONSTRUCTION.

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PLOT SCALE: AS SHOWN	DATE: 06/03/2021
PROJECT NO. PA-20-06-008	FILE NAME:



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
ELECTRICAL SITE PLAN -
PARTIAL - NORTH OF STATION

SHEET IDENTIFICATION
E120

SHEET SIZE 22" x 34"
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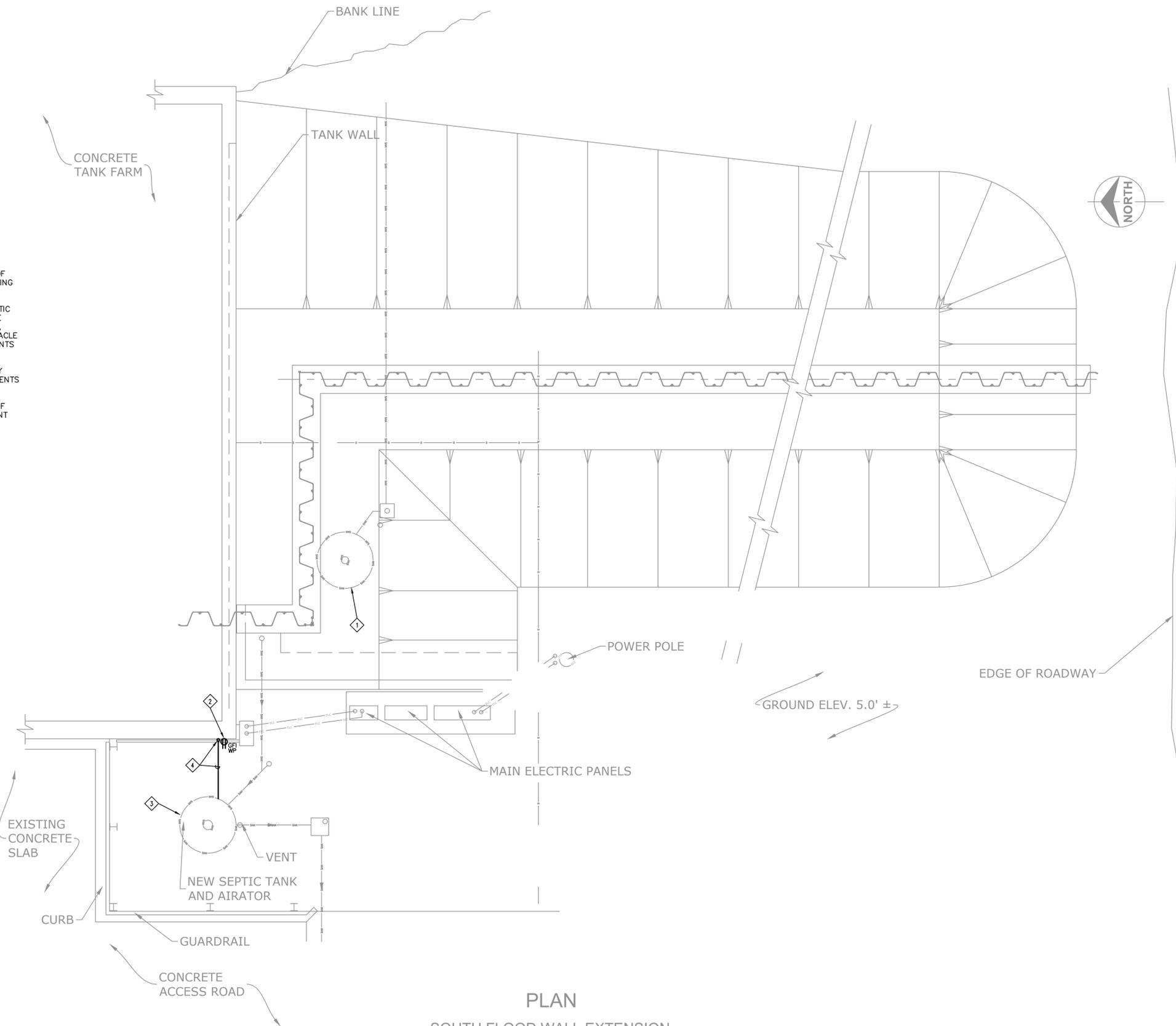
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SPECIFIC NOTES:

- 1 EXISTING SEPTIC TANK WILL BE REMOVED BY OTHER DIVISIONS OF WORK. REMOVE ASSOCIATED ELECTRICAL BACK TO NEAREST FITTING LOCATED ON TANK FARM DIKE WALL.
- 2 CONDUIT THAT IS BELIEVED TO CURRENTLY SERVE EXISTING SEPTIC TANK AERATOR RISES ABOVE GRADE AT THIS LOCATION. TRACE CONDUIT TO VERIFY IT SERVES SEPTIC TANK. ONCE CONFIRMED, REMOVE ELECTRICAL TO NEAREST FITTING AND PROVIDE RECEPTACLE FOR NEW AERATOR PUMP. COORDINATE ELECTRICAL REQUIREMENTS WITH EQUIPMENT PROVIDER.
- 3 NEW SEPTIC TANK AND AERATOR FURNISHED AND INSTALLED BY OTHER DIVISIONS OF WORK. COORDINATE ELECTRICAL REQUIREMENTS WITH EQUIPMENT PROVIDER.
- 4 PROVIDE 2-INCH CONDUIT PATH BELOW GRADE FROM TO TANK IF REQUIRED FOR ROUTING AIR LINES. COORDINATE WITH EQUIPMENT PROVIDER.

PLAN

SOUTH FLOOD WALL EXTENSION

SCALE: 1/4" = 1'-0"

SCALE: 1/4" = 1'-0"



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PA-20-06-008	06/03/2021
FILE NAME:	



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
ELECTRICAL FLOOD
PROTECTION - SOUTH PLAN

SHEET IDENTIFICATION
E210

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SHEET SIZE 22"x34"
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Architect

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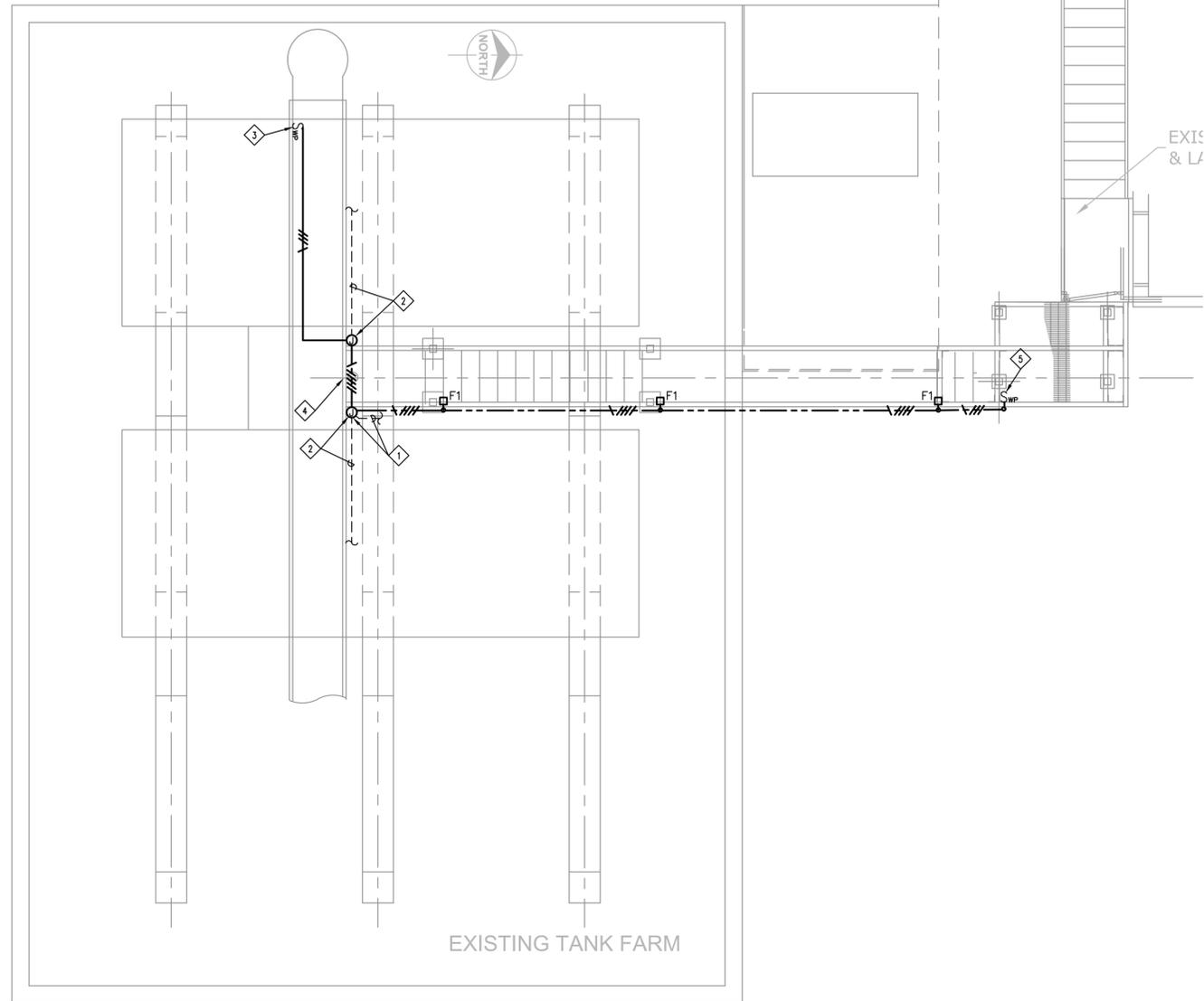
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TANK FARM CATWALK PLAN

SCALE: 1/4" = 1'-0"

SPECIFIC NOTES:

- 1 POWER FOR CATWALK LIGHTING RISES UP NEAR THIS LOCATION. PROVIDE CAST OUTLET BOX, TAP CIRCUIT, REFEED LIGHTS, AND REVISE LIGHTING CONTROLS AS ILLUSTRATED.
- 2 CONDUIT AND CONDUCTORS TO EXISTING FIXTURES TO REMAIN. RECONNECT TO SWITCHED CIRCUIT IN JUNCTION BOX.
- 3 REPLACE EXISTING SWITCH WITH 3-WAY SWITCH IN WEATHERPROOF, NEMA 4X ENCLOSURE.
- 4 REMOVE EXISTING LIGHT FIXTURE AND CONDUIT FOR LIGHTING CIRCUIT TO FACILITATE ATTACHMENT OF NEW CATWALK. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
- 5 PROVIDE 3-WAY SWITCH IN WEATHERPROOF, NEMA 4X ENCLOSURE.



NO.	REVISION DESCRIPTION	DATE	BY

DESIGNED BY: JAN PERRY	DRAWN BY: JAN PERRY
CHECKED BY: JAN PERRY	APPROVED BY: JAN PERRY
PLOT SCALE: AS SHOWN	DATE: 06/03/2021
PROJECT NO: PA-20-06-008	FILE NAME:



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
ELECTRICAL PLAN -
TANK FARM CATWALK

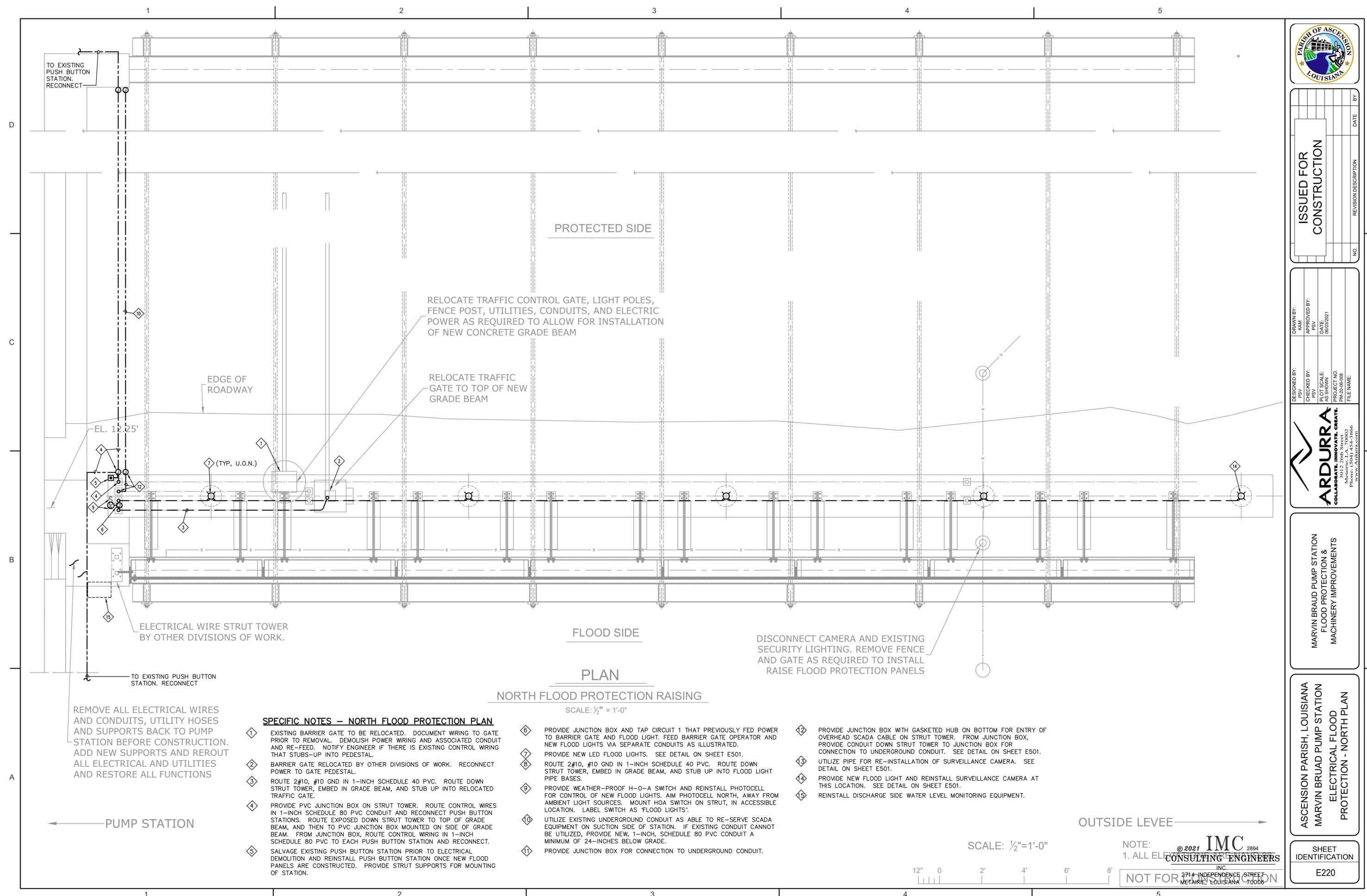
SHEET IDENTIFICATION
E211

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SHEET SIZE 22"x34"
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SHEET SIZE 27" x 34"
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PLAN
NORTH FLOOD PROTECTION RAISING

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

REMOVE ALL ELECTRICAL WIRES AND CONDUITS, UTILITY HOSES AND SUPPORTS BACK TO PUMP STATION BEFORE CONSTRUCTION. ADD NEW SUPPORTS AND REROUT ALL ELECTRICAL AND UTILITIES AND RESTORE ALL FUNCTIONS

SPECIFIC NOTES - NORTH FLOOD PROTECTION PLAN

- 1 EXISTING BARRIER GATE TO BE RELOCATED. DOCUMENT WIRING TO GATE PRIOR TO REMOVAL. DEMOLISH POWER WIRING AND ASSOCIATED CONDUIT AND RE-FEED. NOTIFY ENGINEER IF THERE IS EXISTING CONTROL WIRING THAT STUBS-UP INTO PEDESTAL.
- 2 BARRIER GATE RELOCATED BY OTHER DIVISIONS OF WORK. RECONNECT POWER TO GATE PEDESTAL.
- 3 ROUTE 2#10, #10 GND IN 1-INCH SCHEDULE 40 PVC. ROUTE DOWN STRUT TOWER, EMBED IN GRADE BEAM, AND STUB UP INTO RELOCATED TRAFFIC GATE.
- 4 PROVIDE PVC JUNCTION BOX ON STRUT TOWER. ROUTE CONTROL WIRES IN 1-INCH SCHEDULE 80 PVC CONDUIT AND RECONNECT PUSH BUTTON STATIONS. ROUTE EXPOSED DOWN STRUT TOWER TO TOP OF GRADE BEAM, AND THEN TO PVC JUNCTION BOX MOUNTED ON SIDE OF GRADE BEAM. FROM JUNCTION BOX, ROUTE CONTROL WIRING IN 1-INCH SCHEDULE 80 PVC TO EACH PUSH BUTTON STATION AND RECONNECT.
- 5 SALVAGE EXISTING PUSH BUTTON STATION PRIOR TO ELECTRICAL DEMOLITION AND REINSTALL PUSH BUTTON STATION ONCE NEW FLOOD PANELS ARE CONSTRUCTED. PROVIDE STRUT SUPPORTS FOR MOUNTING OF STATION.

- 6 PROVIDE JUNCTION BOX AND TAP CIRCUIT 1 THAT PREVIOUSLY FED POWER TO BARRIER GATE AND FLOOD LIGHT. FEED BARRIER GATE OPERATOR AND NEW FLOOD LIGHTS VIA SEPARATE CONDUITS AS ILLUSTRATED.
- 7 PROVIDE NEW LED FLOOD LIGHTS. SEE DETAIL ON SHEET E501.
- 8 ROUTE 2#10, #10 GND IN 1-INCH SCHEDULE 40 PVC. ROUTE DOWN STRUT TOWER, EMBED IN GRADE BEAM, AND STUB UP INTO FLOOD LIGHT PIPE BASES.
- 9 PROVIDE WEATHER-PROOF H-O-A SWITCH AND REINSTALL PHOTOCELL FOR CONTROL OF NEW FLOOD LIGHTS. AIM PHOTOCELL NORTH, AWAY FROM AMBIENT LIGHT SOURCES. MOUNT HOA SWITCH ON STRUT, IN ACCESSIBLE LOCATION. LABEL SWITCH AS 'FLOOD LIGHTS'.
- 10 UTILIZE EXISTING UNDERGROUND CONDUIT AS ABLE TO RE-SERVE SCADA EQUIPMENT ON SUCTION SIDE OF STATION. IF EXISTING CONDUIT CANNOT BE UTILIZED, PROVIDE NEW, 1-INCH, SCHEDULE 80 PVC CONDUIT A MINIMUM OF 24-INCHES BELOW GRADE.
- 11 PROVIDE JUNCTION BOX FOR CONNECTION TO UNDERGROUND CONDUIT.

- 12 PROVIDE JUNCTION BOX WITH GASKETED HUB ON BOTTOM FOR ENTRY OF OVERHEAD SCADA CABLE ON STRUT TOWER. FROM JUNCTION BOX, PROVIDE CONDUIT DOWN STRUT TOWER TO JUNCTION BOX FOR CONNECTION TO UNDERGROUND CONDUIT. SEE DETAIL ON SHEET E501.
- 13 UTILIZE PIPE FOR RE-INSTALLATION OF SURVEILLANCE CAMERA. SEE DETAIL ON SHEET E501.
- 14 PROVIDE NEW FLOOD LIGHT AND REINSTALL SURVEILLANCE CAMERA AT THIS LOCATION. SEE DETAIL ON SHEET E501.
- 15 REINSTALL DISCHARGE SIDE WATER LEVEL MONITORING EQUIPMENT.



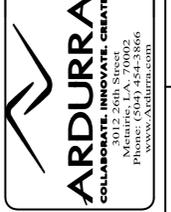
SCALE: 1/2" = 1'-0"

NOTE:
 1. ALL ELEVATIONS ARE TO THE TOP OF THE GRADE BEAM UNLESS OTHERWISE NOTED.
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DESIGNED BY:	APPROVED BY:
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DATE:	FILE NAME:



MARVIN BRAUD PUMP STATION
 FLOOD PROTECTION &
 MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
 MARVIN BRAUD PUMP STATION
 ELECTRICAL FLOOD
 PROTECTION - NORTH PLAN

SHEET IDENTIFICATION
E220

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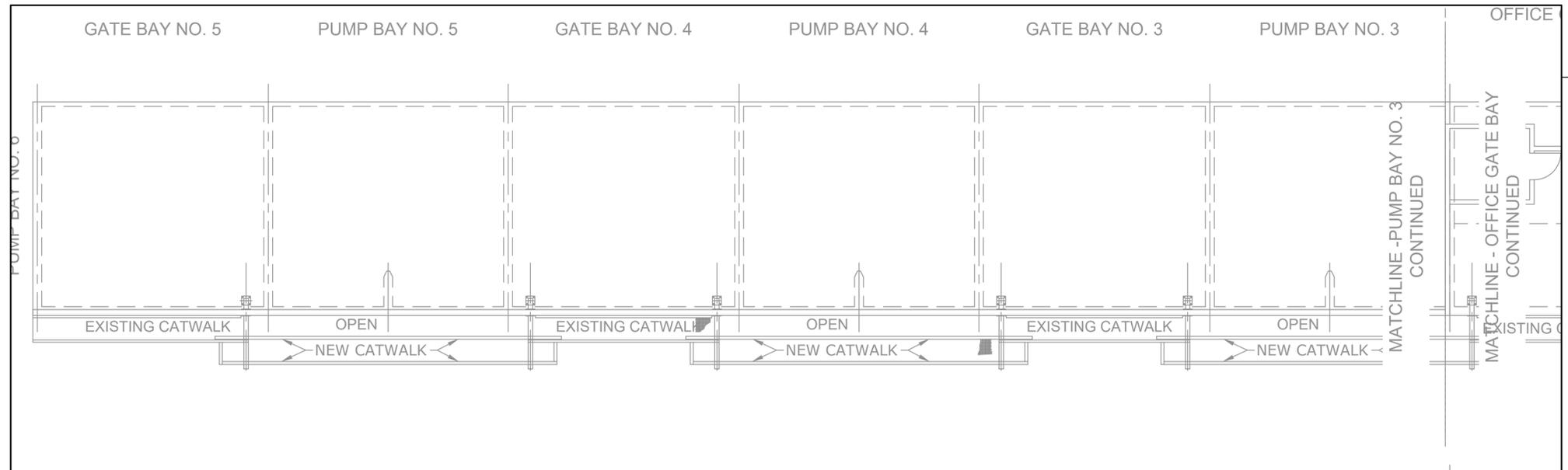
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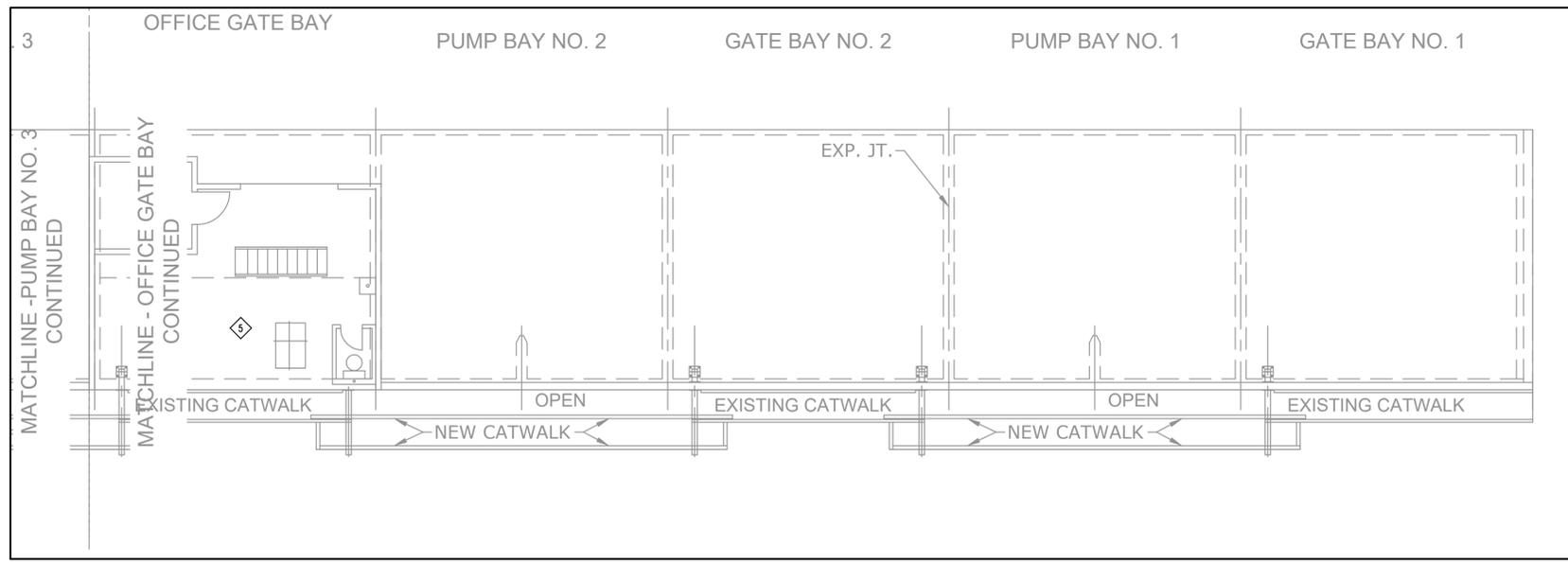
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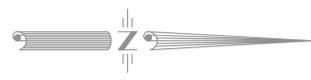
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PLAN
NEW CATWALK LOACTIONS
 PUMP BAYS 1 THRU 5
 SCALE: 1/8" = 1'-0"



PLAN
 PUMP BAYS 1 THRU 5
 SCALE: 1/8" = 1'-0"



SEE SHEET E231

SEE SHEET E232

SPECIFIC NOTES – OLD PUMP STATION

- 1 NOT USED.
- 2 EXISTING ENGINE ENCLOSURE WILL BE REMOVED BY OTHER DIVISIONS OF WORK. DEMOLISH EXISTING LOAD CENTER INSIDE OF ENCLOSURE AND BRANCH CIRCUITS IN LOAD CENTER THAT FEED ENCLOSURE EXHAUST FANS AND LIGHTS. RELOCATE BATTERIES AND BATTERY CHARGER TO END OF ENGINE. RE-FEED BATTERY CHARGER AND JACKET WATER HEATER FROM NEW PANEL LL-P#, WHERE # IS THE PUMP NUMBER.
- 3 NOT USE.
- 4 PROVIDE A NEW PANELBOARD LL-P# AS SCHEDULED. # CORRESPONDS TO PUMP NUMBER. ROUTE 3#6, #8 GND IN 1-INCH CONDUIT FROM NEW PANEL BACK TO EXISTING PANEL, UTILIZING BREAKER THAT PREVIOUSLY SERVED ENGINE ENCLOSURE LOAD CENTER.
- 5 APPROXIMATE LOCATION OF EXISTING 208-VOLT PANELS. UTILIZE EXISTING 3P/60A CIRCUIT BREAKERS CURRENTLY FEEDING ENGINE ENCLOSURE LOAD CENTERS TO FEED NEW PANELS LL-P#. PROVIDE NEW CIRCUIT BREAKERS IN PANEL FOR CRANES AS INDICATED ON ENLARGED PLANS. PROVIDE TWO NEW 3P/60A CIRCUIT BREAKERS IN EXISTING PANEL TO FEED TWO NEW CRANES.
- 6 ROUTE 3#8, 2#12, #10 GND, #12 GND IN 1-INCH CONDUIT FROM PANEL LL-P# TO JUNCTION BOX AT JACKET WATER HEATER END OF ENGINE. FOLLOW FUEL PIPING FROM WALL TO ENGINE.
- 7 PROVIDE JUNCTION BOX AT ENGINE AND FLEX TO BATTERY CHARGER AND JACKET WATER HEATER WITH 2#12, #12 GND IN 3/4-INCH LFMC AND 3#8, #10 GND IN 1-INCH LFMC, RESPECTIVELY.
- 8 APPROXIMATE LOCATION OF GATE ACTUATOR FURNISHED UNDER OTHER DIVISIONS OF WORK. PROVIDE 3-POLE, 240-VOLT FUSED DISCONNECT SWITCH IN NEMA 12 ENCLOSURE FOR CONNECTION TO GATE ACTUATOR. ROUTE 3#12, #12 GND IN 3/4-INCH CONDUIT BACK TO PANEL LL-P#. MAKE FINAL CONNECTIONS TO ACTUATOR WITH LFMC.



NO.	REVISION DESCRIPTION	DATE	BY

DESIGNED BY: RVS	DESIGNED BY: RVS	DATE: 06/03/2021
CHECKED BY: RVS	CHECKED BY: RVS	DATE: 06/03/2021
PROJECT NO. PA-20-06-008	PROJECT NO. PA-20-06-008	FILE NAME

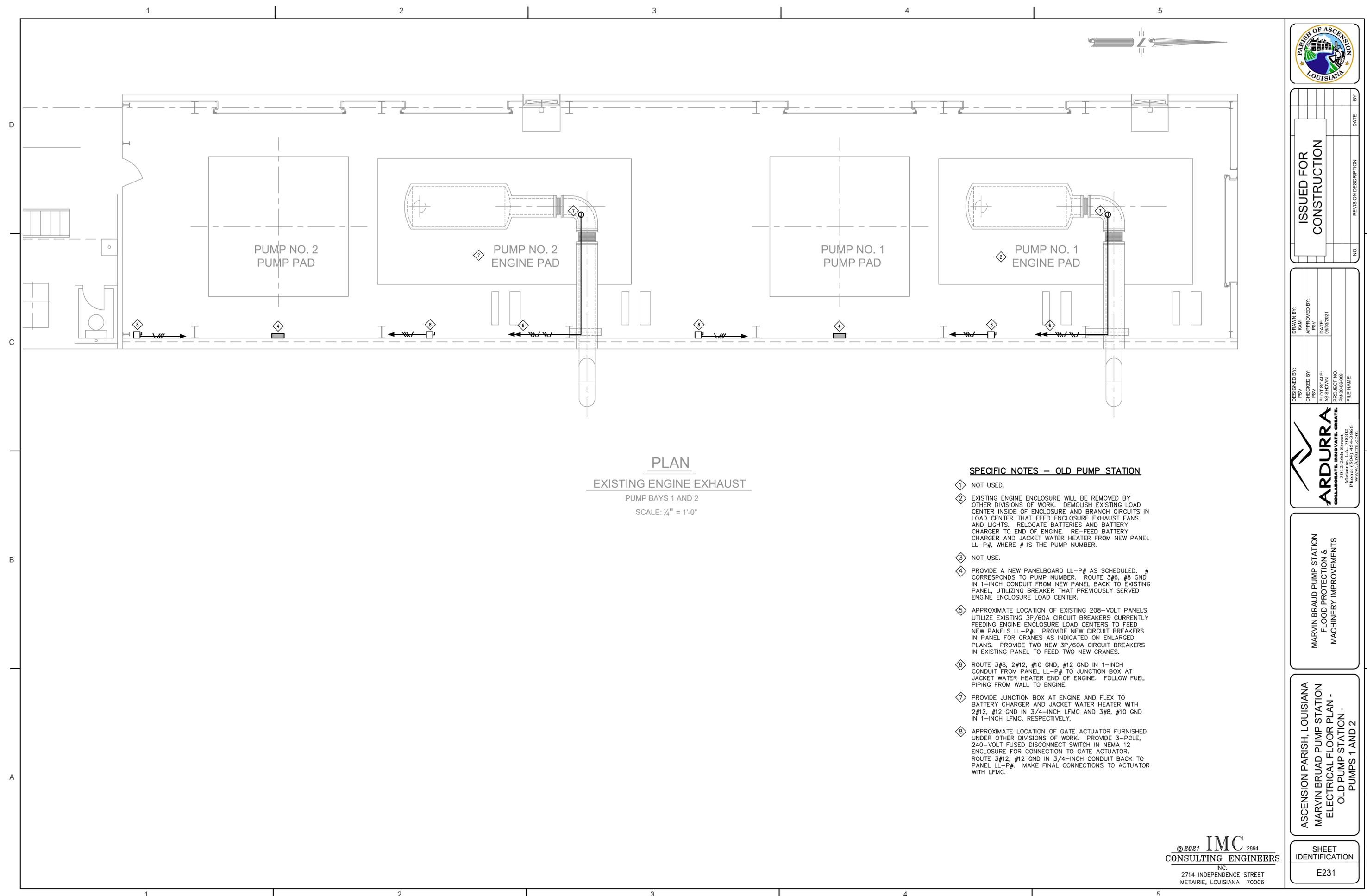


MARVIN BRAUD PUMP STATION
 FLOOD PROTECTION &
 MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
 MARVIN BRAUD PUMP STATION
 ELECTRICAL FLOOR PLAN -
 OLD PUMP STATION

SHEET IDENTIFICATION
 E230

SHEET SIZE 27" x 34"
 M:\2800 SERIES\2894\2894-ELEC\FLOOR PLAN - OLD PUMPSTATION -
 PUMPS 1 AND 2.dwg 6/23/2021 3:05 PM



PLAN
EXISTING ENGINE EXHAUST
 PUMP BAYS 1 AND 2
 SCALE: 1/4" = 1'-0"

SPECIFIC NOTES – OLD PUMP STATION

- ① NOT USED.
- ② EXISTING ENGINE ENCLOSURE WILL BE REMOVED BY OTHER DIVISIONS OF WORK. DEMOLISH EXISTING LOAD CENTER INSIDE OF ENCLOSURE AND BRANCH CIRCUITS IN LOAD CENTER THAT FEED ENCLOSURE EXHAUST FANS AND LIGHTS. RELOCATE BATTERIES AND BATTERY CHARGER TO END OF ENGINE. RE-FEED BATTERY CHARGER AND JACKET WATER HEATER FROM NEW PANEL LL-P#, WHERE # IS THE PUMP NUMBER.
- ③ NOT USE.
- ④ PROVIDE A NEW PANELBOARD LL-P# AS SCHEDULED. # CORRESPONDS TO PUMP NUMBER. ROUTE 3#6, #8 GND IN 1-INCH CONDUIT FROM NEW PANEL BACK TO EXISTING PANEL, UTILIZING BREAKER THAT PREVIOUSLY SERVED ENGINE ENCLOSURE LOAD CENTER.
- ⑤ APPROXIMATE LOCATION OF EXISTING 208-VOLT PANELS. UTILIZE EXISTING 3P/60A CIRCUIT BREAKERS CURRENTLY FEEDING ENGINE ENCLOSURE LOAD CENTERS TO FEED NEW PANELS LL-P#. PROVIDE NEW CIRCUIT BREAKERS IN PANEL FOR CRANES AS INDICATED ON ENLARGED PLANS. PROVIDE TWO NEW 3P/60A CIRCUIT BREAKERS IN EXISTING PANEL TO FEED TWO NEW CRANES.
- ⑥ ROUTE 3#8, 2#12, #10 GND, #12 GND IN 1-INCH CONDUIT FROM PANEL LL-P# TO JUNCTION BOX AT JACKET WATER HEATER END OF ENGINE. FOLLOW FUEL PIPING FROM WALL TO ENGINE.
- ⑦ PROVIDE JUNCTION BOX AT ENGINE AND FLEX TO BATTERY CHARGER AND JACKET WATER HEATER WITH 2#12, #12 GND IN 3/4-INCH LFMC AND 3#8, #10 GND IN 1-INCH LFMC, RESPECTIVELY.
- ⑧ APPROXIMATE LOCATION OF GATE ACTUATOR FURNISHED UNDER OTHER DIVISIONS OF WORK. PROVIDE 3-POLE, 240-VOLT FUSED DISCONNECT SWITCH IN NEMA 12 ENCLOSURE FOR CONNECTION TO GATE ACTUATOR. ROUTE 3#12, #12 GND IN 3/4-INCH CONDUIT BACK TO PANEL LL-P#. MAKE FINAL CONNECTIONS TO ACTUATOR WITH LFMC.



NO.	REVISION DESCRIPTION	DATE	BY

DESIGNED BY: PVS	APPROVED BY: PVS
DATE: 06/03/2021	DATE: 06/03/2021
PROJECT NO. PA-20-06-008	PROJECT NO. PA-20-06-008
FILE NAME	FILE NAME



MARVIN BRAUD PUMP STATION
 FLOOD PROTECTION &
 MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
 MARVIN BRAUD PUMP STATION
 ELECTRICAL FLOOR PLAN -
 OLD PUMP STATION -
 PUMPS 1 AND 2

SHEET IDENTIFICATION
E231

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 METAIRIE, LOUISIANA 70006

M:\2800 SERIES\2894\2894-ELEC\Floor Plan - Old PumpStation - Pumps 1 and 2.dwg

1

2

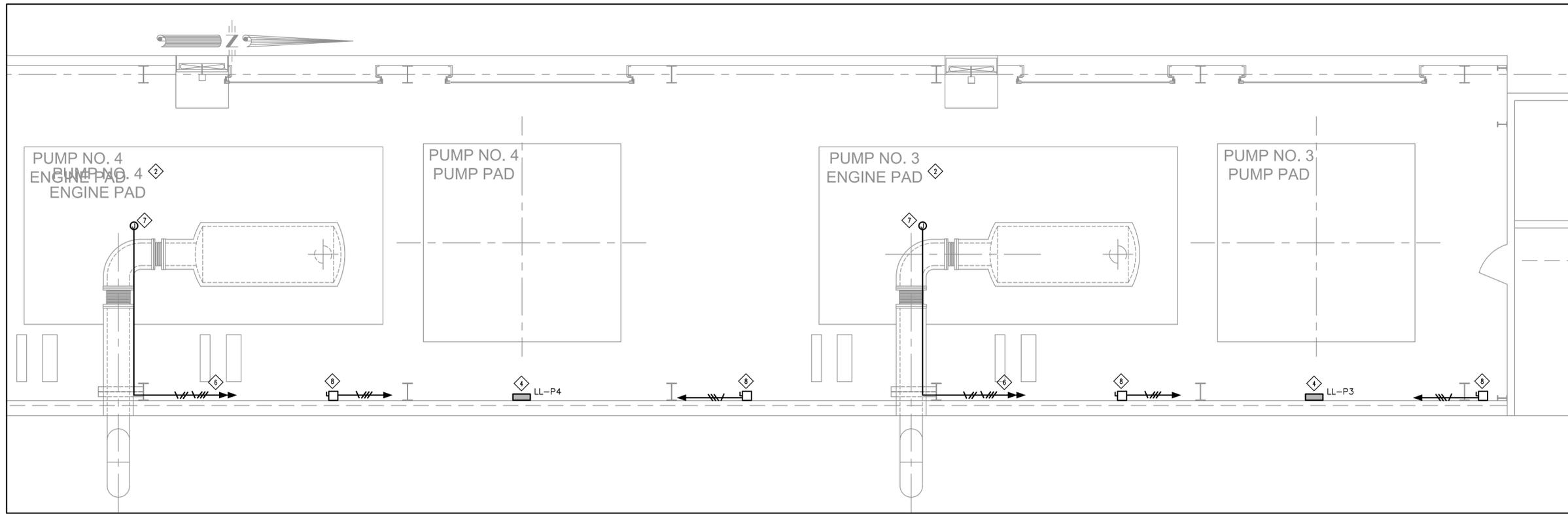
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4

5

D

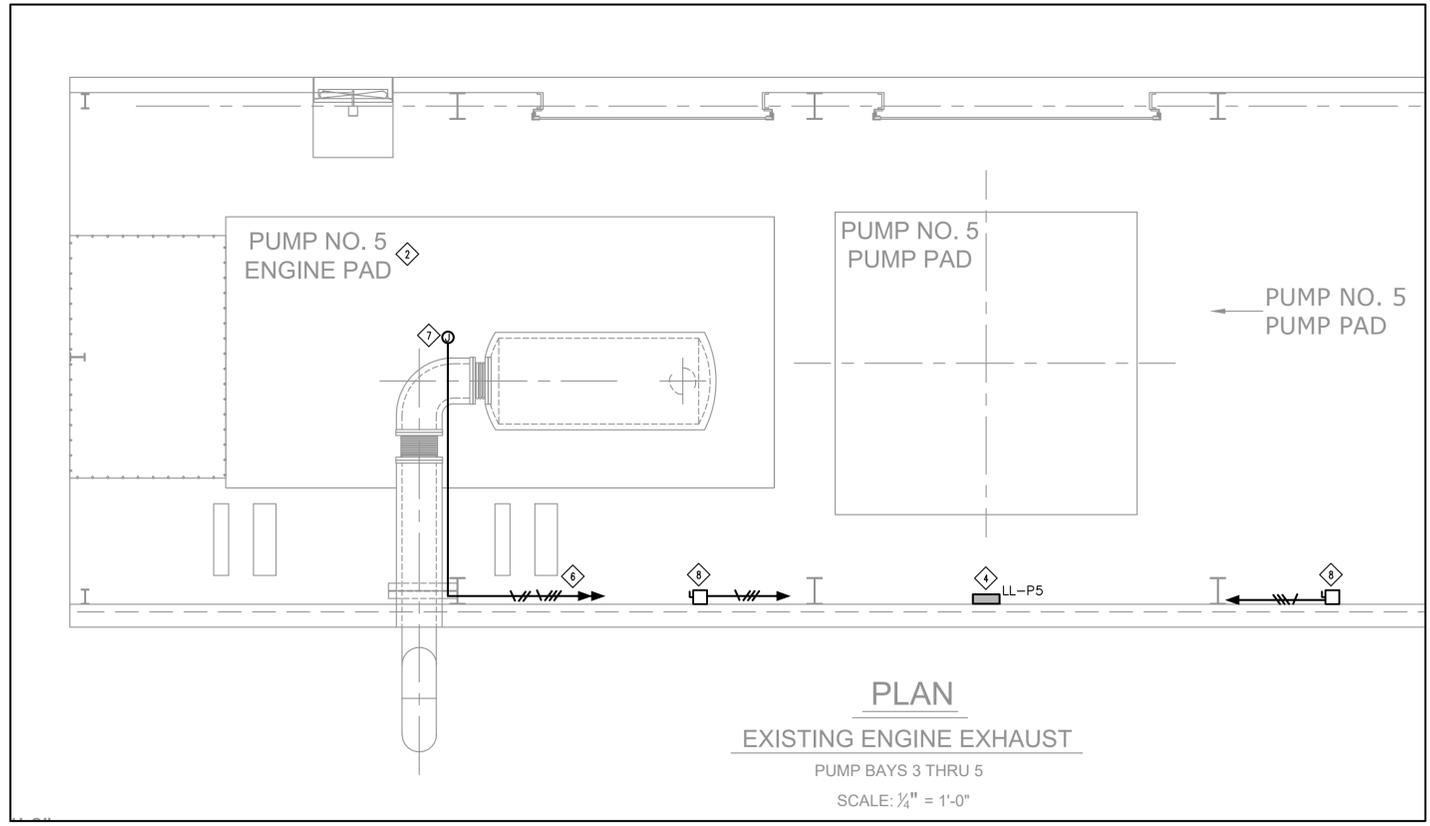
C



PLAN
EXISTING ENGINE EXHAUST
 PUMP BAYS 1 AND 2
 SCALE: 1/4" = 1'-0"

B

A



PLAN
EXISTING ENGINE EXHAUST
 PUMP BAYS 3 THRU 5
 SCALE: 1/4" = 1'-0"

SPECIFIC NOTES – OLD PUMP STATION

- 1 NOT USED.
- 2 EXISTING ENGINE ENCLOSURE WILL BE REMOVED BY OTHER DIVISIONS OF WORK. DEMOLISH EXISTING LOAD CENTER INSIDE OF ENCLOSURE AND BRANCH CIRCUITS IN LOAD CENTER THAT FEED ENCLOSURE EXHAUST FANS AND LIGHTS. RELOCATE BATTERIES AND BATTERY CHARGER TO END OF ENGINE. RE-FEED BATTERY CHARGER AND JACKET WATER HEATER FROM NEW PANEL LL-P#, WHERE # IS THE PUMP NUMBER.
- 3 NOT USED.
- 4 PROVIDE A NEW PANELBOARD LL-P# AS SCHEDULED. # CORRESPONDS TO PUMP NUMBER. ROUTE 3#6, #8 GND IN 1-INCH CONDUIT FROM NEW PANEL BACK TO EXISTING PANEL, UTILIZING BREAKER THAT PREVIOUSLY SERVED ENGINE ENCLOSURE LOAD CENTER.
- 5 APPROXIMATE LOCATION OF EXISTING 208-VOLT PANELS. UTILIZE EXISTING 3P/60A CIRCUIT BREAKERS CURRENTLY FEEDING ENGINE ENCLOSURE LOAD CENTERS TO FEED NEW PANELS LL-P#. PROVIDE NEW CIRCUIT BREAKERS IN PANEL FOR CRANES AS INDICATED ON ENLARGED PLANS. PROVIDE TWO NEW 3P/60A CIRCUIT BREAKERS IN EXISTING PANEL TO FEED TWO NEW CRANES.
- 6 ROUTE 3#8, 2#12, #10 GND, #12 GND IN 1-INCH CONDUIT FROM PANEL LL-P# TO JUNCTION BOX AT JACKET WATER HEATER END OF ENGINE. FOLLOW FUEL PIPING FROM WALL TO ENGINE.
- 7 PROVIDE JUNCTION BOX AT ENGINE AND FLEX TO BATTERY CHARGER AND JACKET WATER HEATER WITH 2#12, #12 GND IN 3/4-INCH LFMC AND 3#8, #10 GND IN 1-INCH LFMC, RESPECTIVELY.
- 8 APPROXIMATE LOCATION OF GATE ACTUATOR FURNISHED UNDER OTHER DIVISIONS OF WORK. PROVIDE 3-POLE, 240-VOLT FUSED DISCONNECT SWITCH IN NEMA 12 ENCLOSURE FOR CONNECTION TO GATE ACTUATOR. ROUTE 3#12, #12 GND IN 3/4-INCH CONDUIT BACK TO PANEL LL-P#. MAKE FINAL CONNECTIONS TO ACTUATOR WITH LFMC.



NO.	REVISION DESCRIPTION	DATE	BY

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PROJECT NO.:	FILE NAME:
PLANT NO.:	



MARVIN BRAUD PUMP STATION
 FLOOD PROTECTION &
 MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
 MARVIN BRAUD PUMP STATION
 ELECTRICAL FLOOR PLAN -
 OLD PUMP STATION -
 PUMPS 3.4 AND 5

SHEET IDENTIFICATION
 E232

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SHEET SIZE 27" x 34"
 M:\2020 SERIES\2894\ELEC\Floor Plan - Old Pump Station -
 PUMPS 3.4 AND 5 - 6/2/2021 3:06 PM

M:\2020 SERIES\2894\ELEC\Floor Plan - Old Pump Station - Pumps 3.4 and 5.dwg

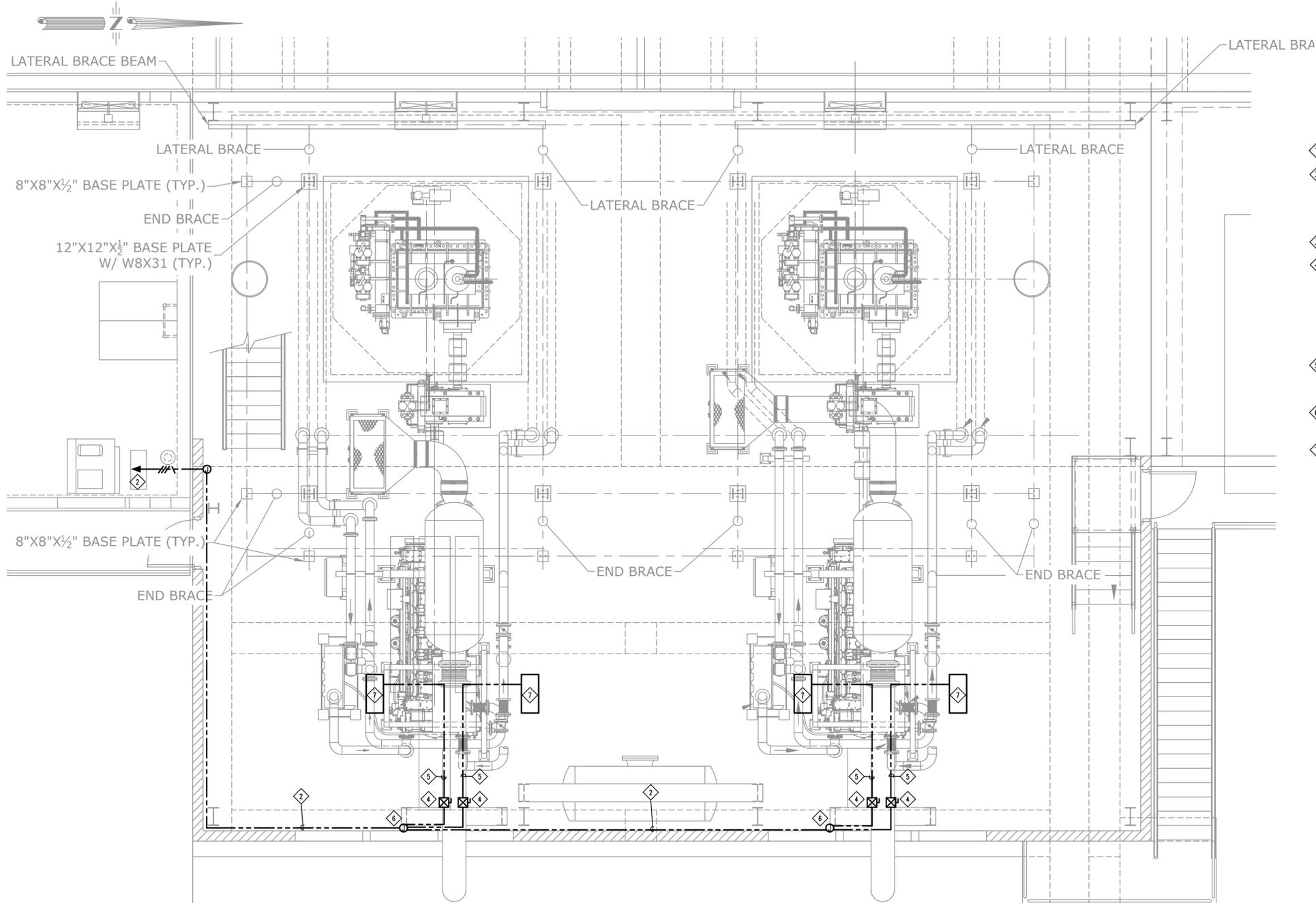
1

2

3

4

5



PLAN
CRANE SUPPORT PLACEMENT
 PUMP BAYS 6 AND 7
 SCALE: 1/4" = 1'-0"

MOTOR CONTROL CENTER
 (MCC IS LOCATED IN NEW STATION GENERATOR/ELECTRICAL ROOM, SEE SHEET E100.)

SPECIFIC NOTES – NEW PUMP STATION

- 1 NOT USED.
- 2 PROVIDE 3P/50A CIRCUIT BREAKER IN EXISTING MOTOR CONTROL CENTER TO FEED NEW WINCHES. ROUTE 3#8, #10 GND IN 1-INCH CONDUIT FROM MCC TO DISCONNECT COMBINATION MOTOR CONTROLLERS FOR WINCHES.
- 3 NOT USED.
- 4 PROVIDE 480-VOLT, FUSED TYPE, FVR COMBINATION MOTOR STARTER IN NEMA 12 ENCLOSURE FOR WINCH. STARTER SHALL BE SIZE 1 WITH OVERLOAD RELAY SELECTED FOR MOTOR TYPE AND HP PROVIDED. CONTACTOR SHALL BE 120-VOLTS; PROVIDE INTEGRAL CPT FOR OPERATOR INTERFACE. ENCLOSURE SHALL BE NEMA TYPE 12 WITH RAISE AND LOWER MOMENTARY PUSH BUTTONS.
- 5 ROUTE 3#10, #10 GND IN 3/4-INCH CONDUIT FROM STARTER TO WINCH. ROUTE CONDUIT IN FUEL TRENCH FROM WALL TO ENGINE PIT.
- 6 TAP FEEDER AND ROUTE 3#10, #10 GND IN 3/4-INCH CONDUIT FROM JB TO STARTER.
- 7 APPROXIMATE LOCATION OF WINCH PROVIDED BY OTHER DIVISIONS OF WORK. PROVIDE POWER TO WINCH FROM MOTOR STARTER.



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FILE NAME:	



MARVIN BRAUD PUMP STATION
 FLOOD PROTECTION &
 MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
 MARVIN BRAUD PUMP STATION
 ELECTRICAL FLOOR PLAN -
 NEW PUMP STATION

SHEET IDENTIFICATION
 E240

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 METAIRIE, LOUISIANA 70006

1

2

3

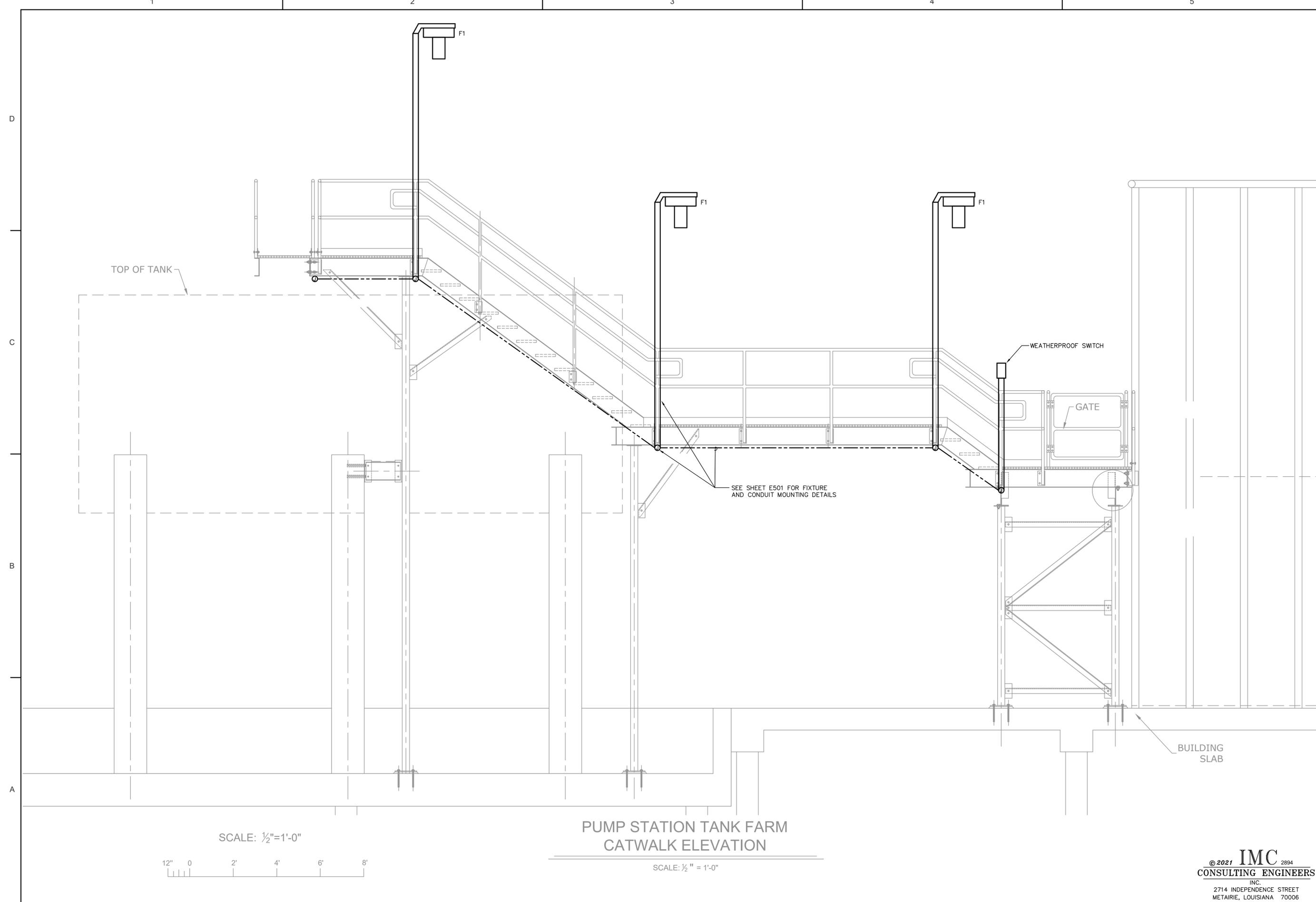
4

5

SHEET SIZE 22"x34"
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 5/7/2021 2:21 PM
 Architecture

M:\2894 SERIES\2894-ELEC\2894-E240-Elec Floor Plan - New PumpStation.dwg

SHEET SIZE 22"x34"
 M:\2800 SERIES\2894\2894-ELEC-ELEV-311-ELEVATION - TANK FARM CATWALK
 6/2/2021 3:07 PM
 kmcbride



TOP OF TANK

WEATHERPROOF SWITCH

GATE

SEE SHEET E501 FOR FIXTURE AND CONDUIT MOUNTING DETAILS

BUILDING SLAB

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



PUMP STATION TANK FARM
 CATWALK ELEVATION

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

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DESIGNED BY: PVS	DESIGNED BY: PVS
CHECKED BY: PVS	CHECKED BY: PVS
APPROVED BY: PVS	APPROVED BY: PVS
DATE: 06/03/2021	DATE: 06/03/2021
PROJECT NO. PA-20-06-008	PROJECT NO. PA-20-06-008
FILE NAME	FILE NAME

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 3012 26th Street
 Metairie, LA 70002
 P: 504.885.1100
 WWW.ARDURRA.COM

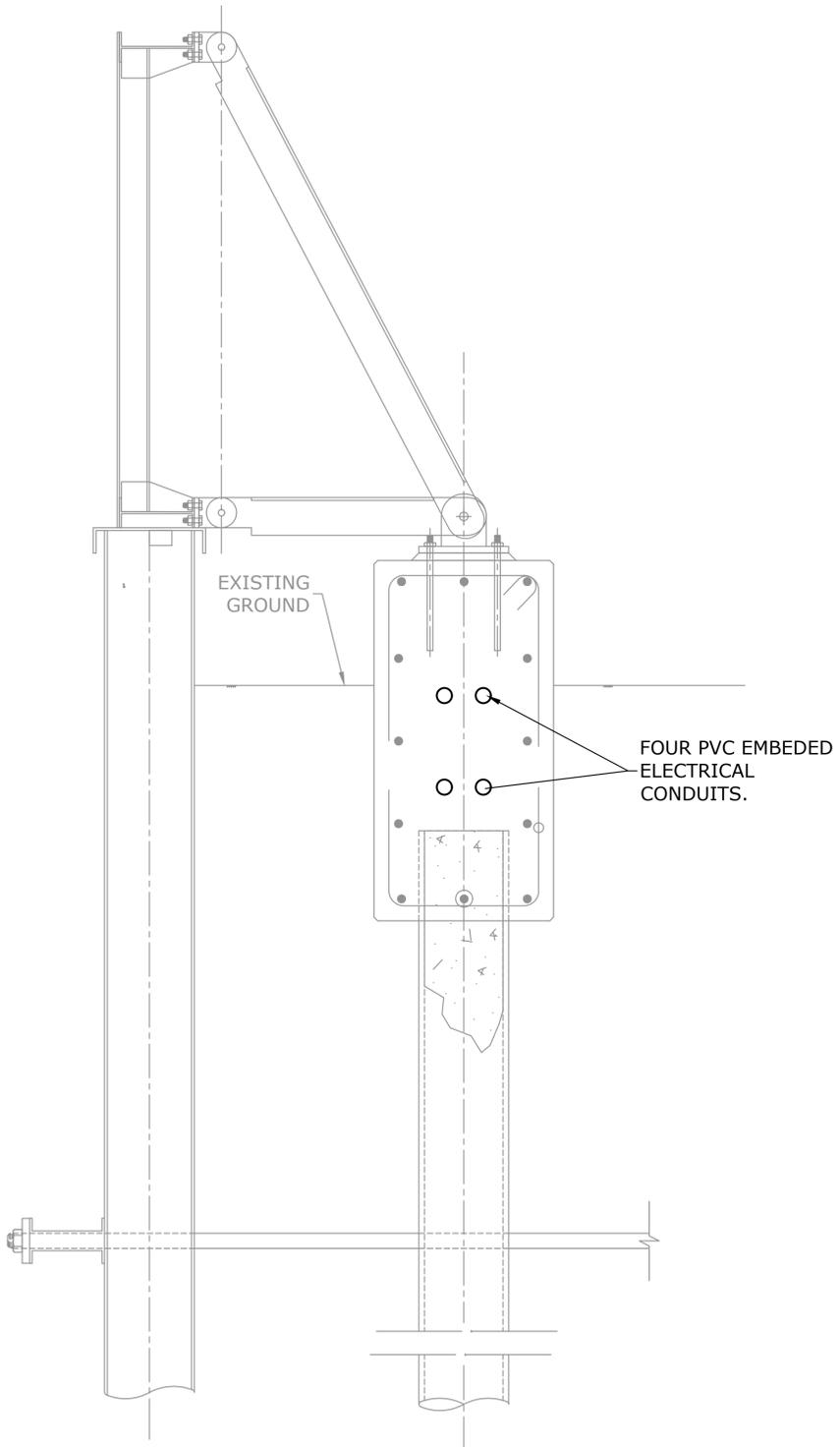
MARVIN BRAUD PUMP STATION
 FLOOD PROTECTION &
 MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
 MARVIN BRAUD PUMP STATION
 ELECTRICAL ELEVATION -
 TANK FARM CATWALK

SHEET IDENTIFICATION
E311

M:\2800 SERIES\2894\2894-ELEC-ELEV-311-ELEVATION - Tank Farm Catwalk.dwg

SHEET SIZE 27" x 34"
 M:\2800 SERIES\2894\2894-ELEC\320-ELEC SECTION - NORTH FLOOD PROTECTION
 GRADE BEAM.dwg 6/23/2021 3:08 PM



FLOOD PANEL GRADE BEAM SUPPORT

SCALE: 1" = 1'-0"

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PROJECT NO: PA-20-06-008	DATE: 06/03/2021
FILE NAME:	



MARVIN BRAUD PUMP STATION
 FLOOD PROTECTION &
 MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
 MARVIN BRAUD PUMP STATION
 ELECTRICAL SECTION -
 NORTH FLOOD PROTECTION
 GRADE BEAM

SHEET IDENTIFICATION
E320

M:\2800 SERIES\2894\2894-ELEC\320-Elec Section - North Flood Protection Grade Beam.dwg

SPECIFIC NOTES -PHOTOS

- ① NFP CIRCUIT 1 – POWER TO BARRIER GATE AND FLOOD LIGHT. REROUTE POWER FROM DISCONNECT, OVER BOAT LOCK VIA STRUT TOWER PROVIDED BY OTHER DIVISIONS OF WORK, TO RELOCATED BARRIER GATE AND NEW FLOODLIGHTS. SEE SHEET E220 FOR FURTHER DETAILS.
- ② NFP CIRCUIT 2 – CONTROL WIRING TO BOAT LOCK PUSH BUTTONS. PROVIDE NEW JUNCTION BOX AT EXISTING SUPPORT AND REROUTE CONTROLS OVER BOAT LOCK VIA STRUT TOWER PROVIDED BY OTHER DIVISIONS OF WORK, TO EXISTING PUSH BUTTONS. SEE SHEET E220 FOR FURTHER DETAILS.
- ③ NFP CIRCUIT 3 – SCADA CABLE TO WATER LEVEL MONITORING EQUIPMENT ON SUCTION AND DISCHARGE SIDE OF STATION. DISCONNECT AND RECONNECT CABLE ONCE NORTH SIDE PROTECTION WALL IS COMPLETE. SEE SHEET E220 FOR FURTHER DETAILS.
- ④ NFP CIRCUIT 4 – CABLE TO VIDEO SURVEILLANCE CAMERA. DISCONNECT AND RECONNECT CABLE ONCE NORTH SIDE PROTECTION WALL IS COMPLETE.
- ⑤ NFP CIRCUIT 5 – FEEDER FOR LOAD CENTER ON NORTH SIDE OF CHANNEL. PROTECT EXISTING OVERHEAD FEEDER THROUGHOUT CONSTRUCTION.
- ⑥ CONDUIT AND CONTROL WIRING TO PUSH BUTTONS ON EITHER SIDE OF BOAT LOCK. UTILIZE / SALVAGE EXISTING CONDUIT AND CABLES AS ABLE. WHERE REQUIRED TO FACILITATE CONSTRUCTION OF NEW FLOOD PROTECTION PANELS, PROVIDE NEW JUNCTION BOXES, CONDUIT AND CABLES TO PUSH BUTTONS. CABLE SHALL MATCH EXISTING; FOR BID PURPOSES, ASSUME 2-CONDUCTOR #14 FOR EACH PUSH BUTTON (6 CONDUCTORS TOTAL). SEE SHEET E220 FOR FURTHER DETAILS.
- ⑦ REMOVE EXISTING CONDUIT UP TO FLOOD LIGHT.
- ⑧ SALVAGE FLOOD LIGHT AND PHOTOCCELL FOR REUSE.
- ⑨ DISCHARGE SIDE SCADA BOX. SALVAGE BOX AND INSTRUMENTATION, INCLUDING STILL WELL, FOR RE-INSTALLATION ONCE FLOOD PROTECTION PANELS ARE CONSTRUCTED.
- ⑩ EXISTING SCADA CABLE FROM PUMP STATION TO INSTRUMENTATION EQUIPMENT ON SUCTION SIDE OF CANAL.
- ⑪ EXISTING PUSH BUTTON STATION MOUNTED LOW (BOAT ACCESSIBLE) ON SUCTION SIDE OF BOAT LOCK (DISCHARGE SIDE SIMILAR). PROTECT STATION AND ASSOCIATED CONDUIT AND CONDUCTORS THROUGHOUT CONSTRUCTION.
- ⑫ CABLE BACK TO SCADA BOX ON DISCHARGE SIDE OF STATION (FROM SCADA EQUIPMENT ON SUCTION SIDE).
- ⑬ CONDUIT TO/FROM SUCTION SIDE SCADA EQUIPMENT. SALVAGE CONDUIT AS POSSIBLE.
- ⑭ CONDUIT FROM SCADA EQUIPMENT DISAPPEARS BELOW GRADE. TRACE CONDUIT; PROTECT THROUGHOUT CONSTRUCTION.
- ⑮ SUCTION SIDE SCADA EQUIPMENT. PROTECT EQUIPMENT AND INSTRUMENTATION, INCLUDING STILL WELL, THROUGHOUT CONSTRUCTION.
- ⑯ REMOVE CAMERA PRIOR TO CONSTRUCTION OF NORTH FLOOD PROTECTION PANELS; SALVAGE FOR INSTALLATION ONCE PANEL CONSTRUCTION IS COMPLETE.
- ⑰ DISCONNECT, SALVAGE, RECONNECT EXISTING CABLE TO CAMERA.



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PLANT SCALE:	
AS SHOWN:	
PN-20-06-008	



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
ELEC SPECIFIC NOTES -
PHOTOS - NORTH OF STATION

SHEET
IDENTIFICATION
E420

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METAIRIE, LOUISIANA 70006

SHEET SIZE 27" x 34"
M:\2800 SERIES\2894\2894-ELEC\SPECIFIC NOTES - PHOTOS - NORTH
OF STATION.dwg
6/27/2021 3:08 PM
R:\STATION



1 CIRCUITS CROSSING BOAT LOCK AT RAILING
SCALE: N.T.S.



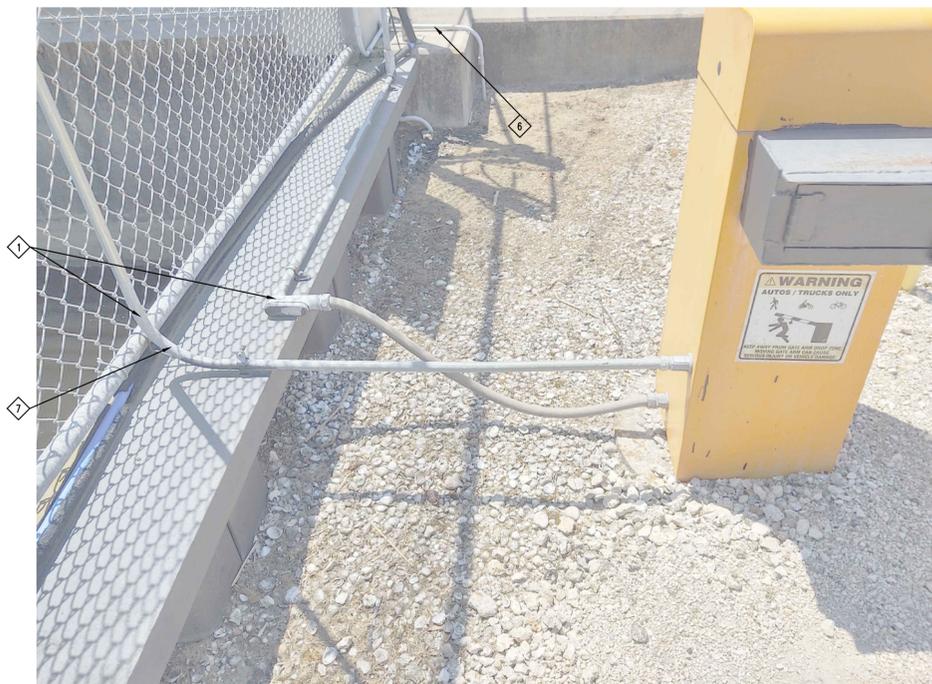
2 CIRCUITS CROSSING BOAT LOCK - AERIAL
SCALE: N.T.S.



3 CIRCUITS 1 - 3
SCALE: N.T.S.



4 CONNECTION TO PUSH BUTTON STATION
SCALE: N.T.S.



5 CONNECTION TO BARRIER GATE OPERATOR
SCALE: N.T.S.



6 EXISTING PHOTOCELL AND FLOODLIGHT
SCALE: N.T.S.

SEE SHEET E420 FOR SPECIFIC NOTES



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DATE:	FILE NAME:



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
ELEC SITE PLAN - PHOTOS -
NORTH OF STATION

SHEET IDENTIFICATION
E421

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SHEET SIZE 22" x 34"
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6/2/2021 3:09 PM

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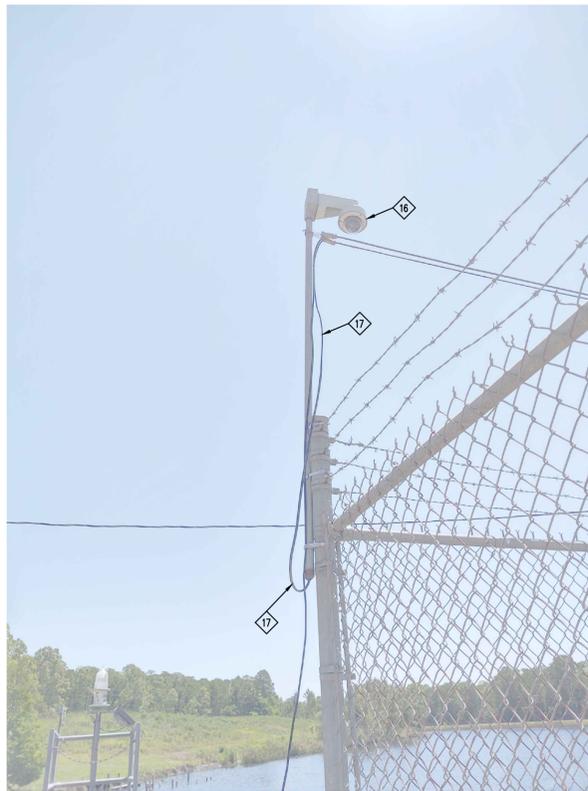
1 PUSH BUTTON STATION AT BOAT LOCK (TYP)
SCALE: N.T.S.



2 SCADA EQUIPMENT - SUCTION SIDE
SCALE: N.T.S.



3 CLOSEUP - SCADA CABLES
SCALE: N.T.S.



4 EXISTING SURVEILLANCE CAMERA
SCALE: N.T.S.



5 LOAD CENTER ON NORTH SIDE OF CHANNEL
SCALE: N.T.S.

SEE SHEET E420 FOR
SPECIFIC NOTES



ISSUED FOR CONSTRUCTION		DATE	BY
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DATE:	DATE:
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PROJECT NO.:	FILE NAME:
PA-20-06-008	



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

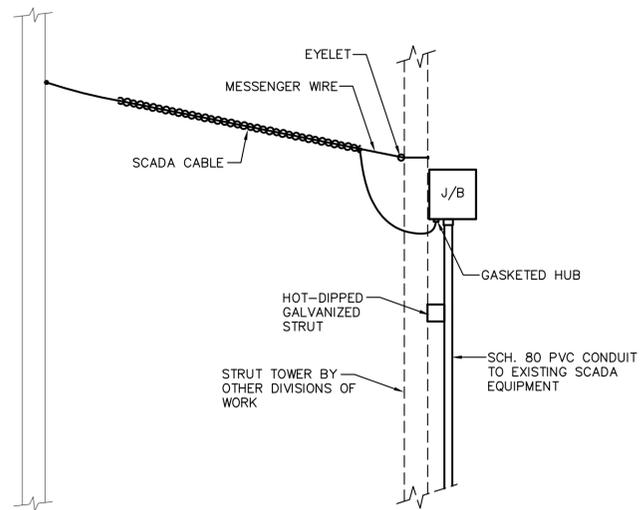
ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
ELEC SITE PLAN - PHOTOS -
NORTH OF STATION

SHEET IDENTIFICATION
E422

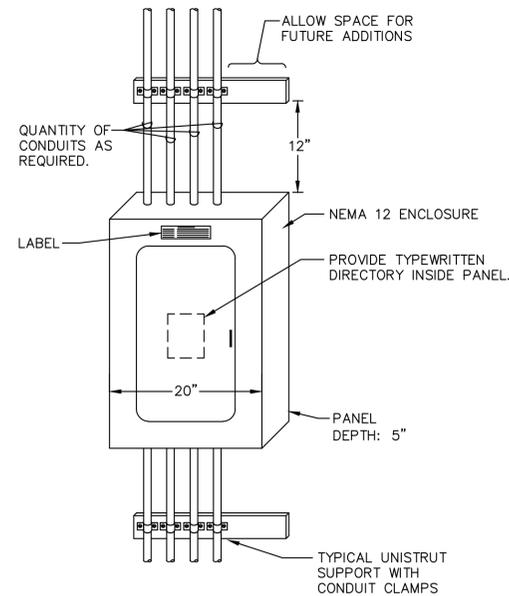
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SHEET SIZE 22" x 34"
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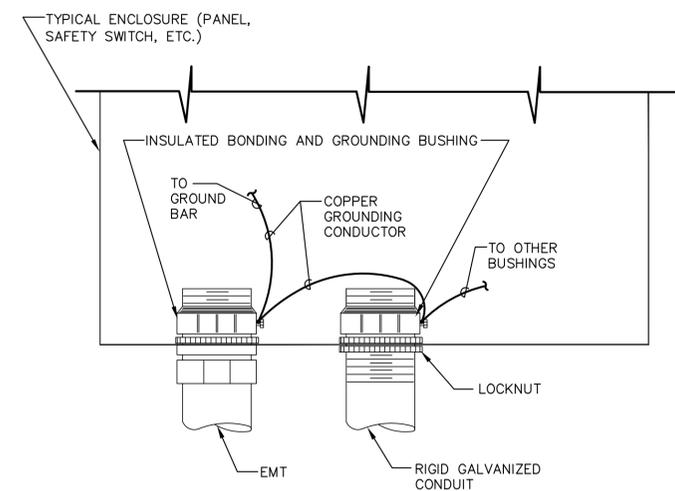
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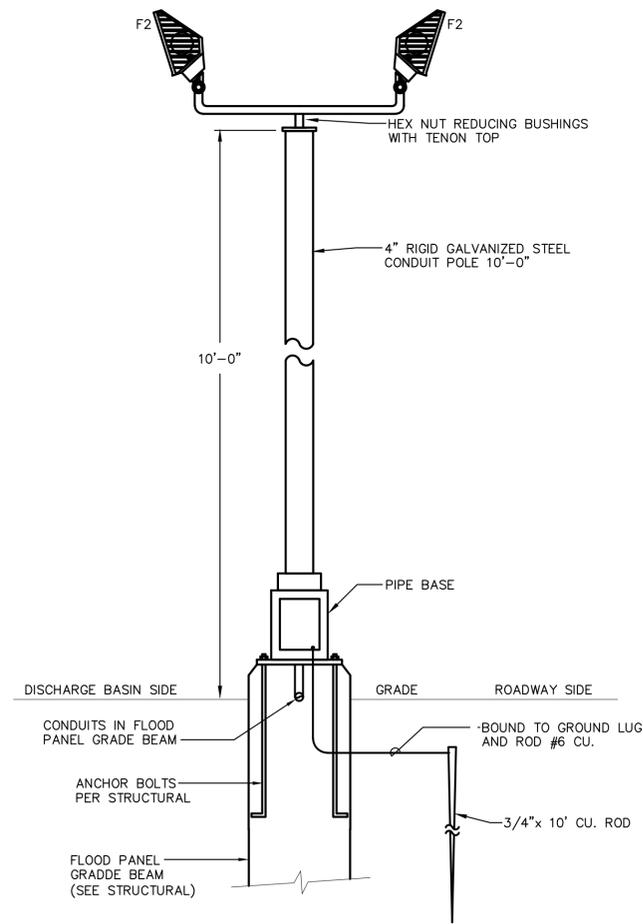
1 SCADA CABLE ATTACHMENT TO STRUT TOWER
SCALE: N.T.S.



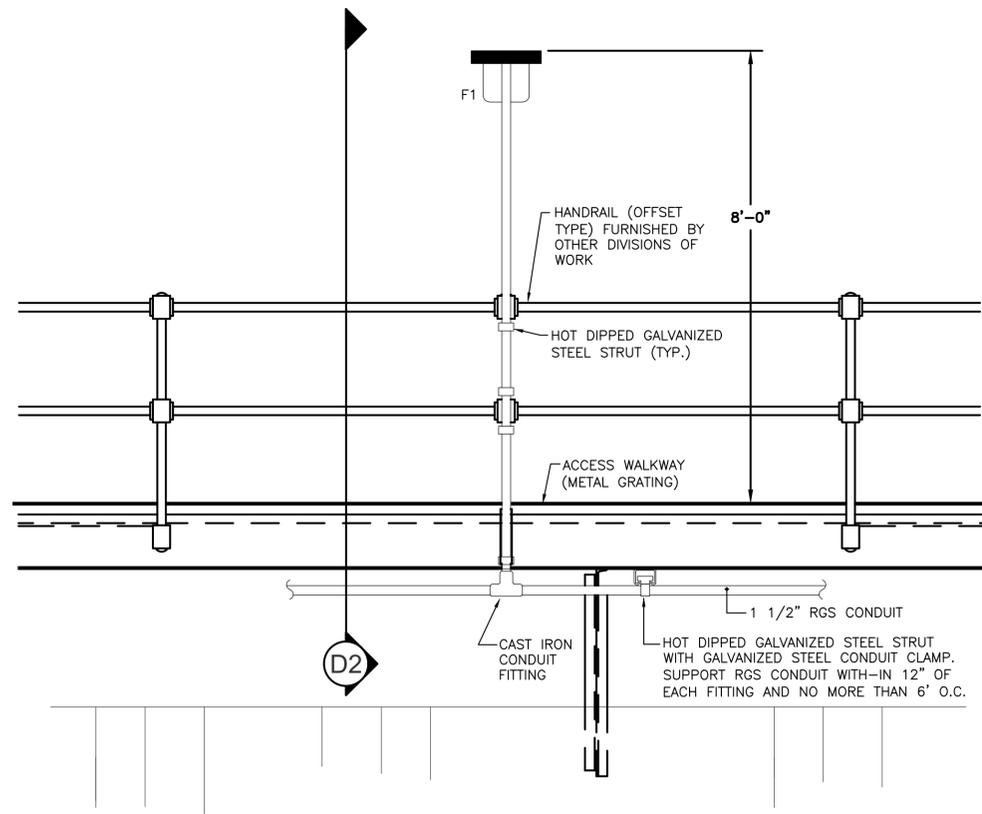
3 PANEL INSTALLATION SURFACE MOUNT
SCALE: N.T.S.



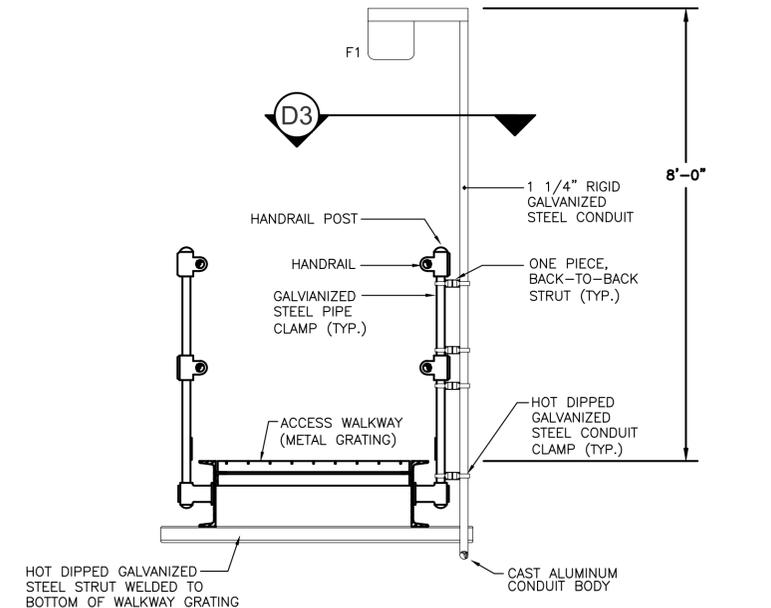
4 GROUNDING BUSHING DETAIL
SCALE: N.T.S.



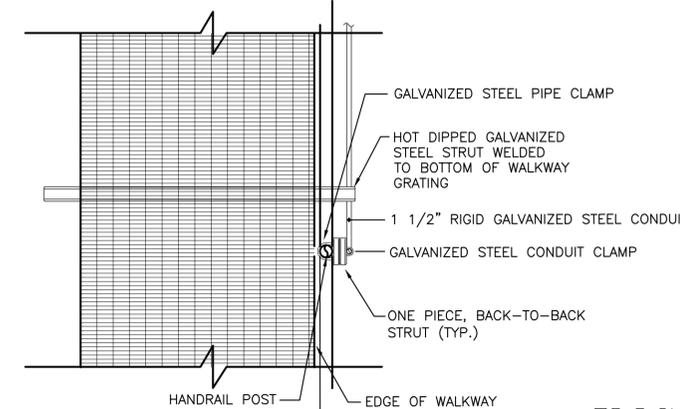
2 LIGHTING - NORTH FLOOD PROTECTION
SCALE: N.T.S.



D1 WALKWAY LIGHT FIXTURE
SCALE: NONE



D2 SECTION
SCALE: NONE



D3 SECTION
SCALE: NONE

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CHECKED BY:	CHECKED BY:	PA-20-06-008	PA-20-06-008
APPROVED BY:	APPROVED BY:	DATE:	DATE:
		06/03/2021	06/03/2021



MARVIN BRAUD PUMP STATION
FLOOD PROTECTION &
MACHINERY IMPROVEMENTS

ASCENSION PARISH, LOUISIANA
MARVIN BRAUD PUMP STATION
ELECTRICAL DETAILS

SHEET
IDENTIFICATION
E501

SHEET SIZE 22" x 34"
M:\2894 SERIES\2894-ELEC\2894-E501-ELEC-DETAILS
6/2/2021 3:10 PM
krc/hrs

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