ELECTRICAL GENERAL NOTES

- 1. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE 2017 NATIONAL ELECTRICAL CODE (NEC), STATE OF NEW YORK UNIFORM CONSTRUCTION CODES, THE 2020 INTERNATIONAL BUILDING CODE, AND ALL GOVERNING LOCAL CODES, LAWS, AND REGULATIONS.
- 2. PROVIDE A COMPLETE OPERABLE SYSTEM IN A NEAT AND SKILLFUL MANNER. OUTLINE DESCRIPTION AND EQUIPMENT; DO NOT LIMIT CONTRACTOR'S LIABILITY FOR THE INSTALLATION OF A COMPLETE OPERABLE SYSTEM.
- 3. VISIT THE SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS THAT MAY AFFECT THE WORK. NO ADDITIONAL COMPENSATION WILL BE DUE FOR FAILURE TO DO SO.
- 4. CONTRACTOR TO BE RESPONSIBLE FOR REVIEWING THE FULL SET OF BID DOCUMENTS TO BE AWARE OF THE TOTAL SCOPE PRIOR TO SUBMITTING BID. ALL WORK SHOWN ON THE DRAWINGS NOT SPECIFICALLY CALLED OUT AS EXISTING SHALL BE CONSIDERED WORK TO BE PERFORMED UNDER THIS CONTRACT.
- 5. BIDDERS, BEFORE SUBMITTING A PROPOSAL, SHALL VISIT AND CAREFULLY EXAMINE THE SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND WITH THE DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THIS WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE. LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED. NO ALLOWANCE WILL SUBSEQUENTLY BE MADE TO THE CONTRACTOR BY REASON OF ANY ERROR DUE TO THE CONTRACTOR'S NEGLECT TO COMPLY WITH THIS REQUIREMENT. REPORT ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS TO THE ENGINEER.
- 6. BEFORE COMMENCING WORK, THE CONTRACTOR SHALL FILE ALL REQUIRED CERTIFICATES OF INSURANCE WITH THE BUILDING DEPARTMENT. OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES REQUIRED.
- 7. UPON COMPLETION OF ALL ELECTRICAL WORK, ELECTRICAL CONTRACTOR SHALL ADJUST AND TEST ALL CIRCUITS, DEVICES AND ANY OTHER ELECTRICAL ITEMS INSTALLED. ANY DEFECTIVE ITEMS SHALL BE IMMEDIATELY REPAIRED OR REPLACED WITH NEW EQUIPMENT OR MATERIALS AND THAT PORTION OF THE SYSTEM SHALL BE RETESTED. ALL SUCH REMEDIAL WORK SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- 8. ALL NOTATIONS OF "SCALE" ARE INTENDED AS APPROXIMATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO ASCERTAIN THE EXACT DIMENSIONS IN FIELD.
- 9. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC, SIZES AND LOCATION OF EQUIPMENT AND WIRING ARE SHOWN TO SCALE WHERE POSSIBLE, BUT MAY BE DISTORTED FOR CLARITY ON THE DRAWINGS.
- 10. UNLESS OTHERWISE NOTED, ELECTRICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO PULL BOXES, JUNCTION BOXES, LOW VOLTAGE SYSTEMS DEVICES, ETC. WHERE INDICATED ON DRAWINGS, SHALL BE CONSIDERED SHOWN AT THEIR APPROXIMATE LOCATION. THE CONTRACTOR SHALL LOCATE THESE ITEMS AS FIELD CONDITIONS DICTATE AND AS APPROVED BY THE ARCHITECT OR OWNER.
- 11. ALL CONDUIT RUNS, WHEN SHOWN ON THE DRAWINGS, ARE SHOWN DIAGRAMMATICALLY TO OUTLINE THE GENERAL ROUTING OF MAJOR FEEDERS AND BRANCH WIRING. IT IS NOT WITHIN THE SCOPE OF THESE DRAWINGS TO SHOW ALL NECESSARY BENDS, OFFSETS, PULL BOXES AND OBSTRUCTIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL THEIR WORK TO CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.
- 12. ADDITIONAL PULL AND JUNCTION BOXES NOT SHOWN ON DRAWINGS SHALL BE PROVIDED WHERE REQUIRED BY APPLICABLE CODE REQUIREMENTS OR WHERE CALLED FOR BY FIELD CONDITIONS. PULL AND JUNCTION BOXES SHALL BE SURFACE MOUNTED THROUGHOUT.
- 13. CONDUIT RUNS SHALL CLEAR ALL ARCHITECTURAL FEATURES (I.E. DOORS, ETC.) AND STRUCTURAL MEMBERS. CONDUIT INSTALLATION SHALL ALSO BE MADE TO AVOID OBSTRUCTION AND CLEAR ACCESS WITH PIPES, DUCTS, OR OTHER EQUIPMENT CORRESPONDING TO OTHER TRADES, INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION. SHALL ANY OF THESE ELEMENTS PREVENT THE INSTALLATION OF RACEWAY AS DELINEATED ON THE CONTRACT DOCUMENTS, DEVIATION MUST BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. ANY VARIATION DUE TO FIELD CONDITIONS SHALL NOT REPRESENT AN ADDITIONAL COST TO OWNER.
- 14. CONDUIT AND BOXES WHEN EXPOSED SHALL MATCH SURROUNDING SURFACES. FACTORY PAINTING WILL BE ACCEPTED AS A PRIME COAT. CONDUIT SHALL BE RUN ABOVE HUNG CEILING WHERE AVAILABLE.
- 25. MINIMUM SIZE OF CONDUITS SHALL BE 3/4", UNLESS OTHERWISE NOTED. PROVIDE 2#12, 1#12G IN 3/4" CONDUIT TO 20A CIRCUIT BREAKERS IN PANELS INDICATED, UNLESS OTHERWISE NOTED.
- 26. PROVIDE OUTLET BOXES AND ENCLOSURES APPROPRIATE FOR THE PURPOSE AT ALL LOCATIONS WHERE THE DRAWINGS REQUIRE THE INSTALLATION OF ELECTRICAL DEVICES OR ELECTRICAL EQUIPMENT.
- 27. ALL OPENINGS BETWEEN FLOORS, THROUGH RATED FIRE AND SMOKE WALLS, CREATED BY THE CONTRACTOR FOR CABLE OR CONDUIT PASS THROUGH SHALL BE SEALED WITH A FIRE STOPPING MATERIAL. FIRE STOPPING MATERIAL AND ITS APPLICATION SHALL BE ACCOMPLISHED IN SUCH A MANNER THAT IS ACCEPTABLE TO THE LOCAL FIRE AND BUILDING AUTHORITIES HAVING JURISDICTION OVER THIS WORK. ANY OPENINGS CREATED BY OR FOR THE CONTRACTOR AND LEFT UNUSED SHALL ALSO BE SEALED AS PART OF THIS WORK.
- 28. ALL EXPOSED NONCURRENT-CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT AND RACEWAYS SHALL BE GROUNDED. A SEPARATE GROUND CONDUCTOR SHALL BE RUN IN ALL CONDUITS IN ALL CASES. ENSURE CONTINUITY OF THE GROUNDING CIRCUIT FROM THE SUPPLYING PANELBOARD GROUNDING BUS TO THE LOAD GROUND TERMINAL. THE RESISTANCE FROM THE SERVICE EQUIPMENT GROUND BUS TO ANY LOAD GROUND TERMINAL SHALL NOT EXCEED 1 OHM.
- 29. NO LOW VOLTAGE WIRING SHALL BE PERMITTED IN THE SAME RACEWAY AS POWER WIRING.
- 30. ALL ELECTRICAL EQUIPMENT AND ACCESSORIES INSTALLED OUTSIDE OR EXPOSED TO WEATHER SHALL HAVE NEMA 3R ENCLOSURES AND SHALL BE TIGHTLY GASKETED FOR A COMPLETE RAINTIGHT INSTALLATION. PROVIDE WITH EXPLOSION PROOF RATING IN EXPLOSION PROOF HAZARDOUS AREAS (I.E. ALCOHOL ROOM).
- 31. ALL EQUIPMENT SHALL HAVE COPPER CURRENT CARRYING PARTS INCLUDING GROUND BUS AND TERMINALS.
- 32. REMOVE ALL DEBRIS RESULTING FROM REMOVAL AND/OR INSTALLATION OF ELECTRICAL WORK FROM THE PREMISES.
- 33. UNLESS OTHERWISE NOTED, "INSTALL" MEANS TO BE PROVIDED AND INSTALLED BY THIS CONTRACTOR.
- 34. CONTRACTOR TO BE RESPONSIBLE FOR ALL RESTORATION, SEALING, WATERPROOFING, PENETRATIONS, CORE DRILLING, CUTTING, PATCHING, AND/OR PAINTING FOR THE COMPLETE CONTRACT WORK INDICATED. ALL RESTORATION WORK PERFORMED BY CONTRACTOR SHALL RESTORE DISTURBED SURFACES TO MATCH ALL SURROUNDING CONSTRUCTION
- 35. IF DURING THE COURSE OF THE PROJECT, ASBESTOS OR OTHER HAZARDOUS MATERIAL CONTAMINATION IS ENCOUNTERED OR SUSPECTED, THE CONTRACTOR SHALL NOTIFY THE OWNER, THE PROJECT MANAGER, AND THE DESIGN PROFESSIONAL IMMEDIATELY (WITHIN 24 HRS.) IN WRITING. CONTRACTOR WILL SUSPEND WORK IN THE AFFECTED AREA UNTIL SUCH TIME THAT THE SAID AREA IS CERTIFIED AS CONTAMINATION FREE.

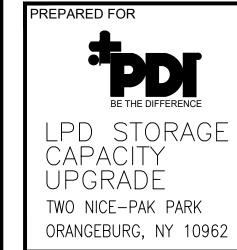
ELECTRICAL DEMOLITION NOTES

- 1. THE DEMOLITION WORK SHALL BE CARRIED ON IN EVERY RESPECT IN A THOROUGH AND NEAT AND SKILLFUL MANNER.
- ALL DEMOLITION, REMOVAL, AND DISPOSAL WORK SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF THE BUILDING CODE AND WITH ALL STATE AND FEDERAL REGULATIONS.
- 3. REMOVE ALL DEBRIS NOT EXPLICITLY DESIGNATED TO BE SALVAGED (TO REMAIN) FROM THE PREMISES AND LEGALLY DISPOSE OF AWAY FROM PREMISES.
- 4. ITEMS INDICATED TO BE SALVAGED SHALL BE REMOVED/ABANDONED IN PLACE AS INDICATED ON PLAN. DURING THE PROCESS OF THE WORK, STORE AND/OR PROTECT ON THE SITE IN A LOCATION DESIGNATED BY THE OWNER'S REPRESENTATIVE. THESE ITEMS WILL BE IDENTIFIED AND RETAINED BY THE OWNER.
- 5. CAREFULLY REMOVE AND PROTECT ALL ITEMS TO BE SAVED AND REUSED AS INDICATED ON DRAWINGS. REPLACE ANY ITEMS THAT ARE DAMAGED BY REMOVAL AT YOUR OWN COST. NOTIFY THE OWNER IN WRITING OF ANY ITEM THAT IS DAMAGED PRIOR TO REMOVAL SO THAT THEY MAY ASCERTAIN THE ITEM'S CONDITION.
- 6. PROTECT MATERIALS, SURFACES AND STRUCTURE, WHICH ARE TO REMAIN, FROM DAMAGE; IF DAMAGE OCCURS, REPAIR OR REPLACEMENT SHALL BE MADE BY THE CONTRACTOR, TO THE SATISFACTION OF THE OWNER, AND AT THE EXPENSE OF THE CONTRACTOR.
- 7. DISCONNECT, REMOVE AND RELOCATE ANY ELECTRICAL EQUIPMENT NOT SHOWN ON THESE DRAWINGS AS PART OF THIS CONTRACT, BUT INTERFERES WITH THE WORK UNDER THIS CONTRACT. THIS WORK SHALL NOT BE CONSIDERED EXTRA AND SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
- 8. VISIT AND EXAMINE CAREFULLY THE AREAS AFFECTED BY THIS WORK TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH THE DIFFICULTIES THAT ATTEND THE EXECUTION OF THIS WORK. LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT, OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED.
- 9. RELOCATE AND/OR ALTER THE EXISTING BUILDING COMPONENTS AS DIRECTED BY OWNER'S REPRESENTATIVE. ALL RELOCATION OR ALTERATIONS TO BUILDING SHALL BE RESTORED TO THEIR ORIGINAL WORKING CONDITIONS AFTER SUCH RELOCATION OR ALTERATION WORK.
- 10. AT THE COMPLETION OF DEMOLITION WORK, ALL RUBBISH, DEBRIS AND WASTE MATERIALS SHALL BE REMOVED BY THE CONTRACTOR AND THE PREMISES SHALL BE LEFT IN CLEAN CONDITION.
- 11. THE CONTRACTOR SHALL DISCONNECT THE CIRCUIT WIRING NOT IN USE AND SHALL REMOVE ALL NECESSARY WIRING MATERIALS, INCLUDING EXPOSED CONDUITS AND JUNCTION BOXES WHICH IMPEDE THE NEW WORK.
- 12. MAINTAIN CONTINUITY FOR ALL EQUIPMENT TO REMAIN. PROVIDE ALL REQUIRED ACCESSORIES, WIRING AND CONDUIT AS REQUIRED.
- SUBSTANTIAL JOB COMPLETION INCORPORATES DEMOLITION OF EXISTING SYSTEMS IN CONTRACT.
- 14. THE EXISTING FIRE ALARM SYSTEM SHALL REMAIN OPERATIONAL AT ALL TIMES DURING CONSTRUCTION.

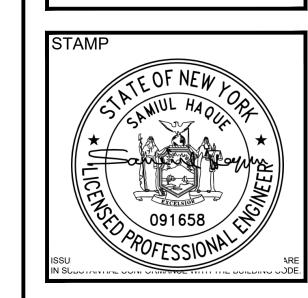
	ABBREVIATIONS
Α	AMPERE
AC	ALTERNATING CURRENT
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
С	CONDUIT
СВ	CIRCUIT BREAKER
CKT(S)	CIRCUIT(S)
CLG	CEILING
DISC	DISCONNECT
DWG	DRAWING
EC	EMPTY CONDUIT
ELEC	ELECTRIC
EM	EMERGENCY
ER	EXISTING TO BE RELOCATED
EQ.	EQUAL
EXIST,EX,E	EXISTING
	FUSE #
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
G,GND	GROUND
GFI	GROUND FAULT INTERRUPTER
HP	HORSE POWER
IG	ISOLATED GROUND
IPA-#	ISOPROPYL ALCOHOL TANK #
J, JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERE
L-#	LINE - IDENTIFICATION #
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUG ONLY
MTD	MOUNTED
MTR	METER
N	NEUTRAL
N-#	NEUTRAL - IDENTIFICATION #
N.C	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O	NORMALLY OPEN
NTS	NOT TO SCALE
PB	PULL BOX
PNL	PANEL
φ, PH	PHASE
PWR	POWER
R	EXISTING TO REMOVED
RC	RELAY CONTACT
RE	EXISTING TO BE REMOVED OR
	RETURNED TO OWNER
SP	SPARE
SV-#	SOLENOID VALVE- IDENTIFICATION#
SW	SWITCH
SWBD	SWITCHBOARD
TB#	RELAY PANEL TERMINAL BLOCK #
TM	TIMED CONTACT
TYP	TYPICAL
U.O.N	UNLESS OTHERWISE NOTED
V	VOLT, VOLTAGE
VIF	VERIFY IN FIELD
WH-#	WITCH HAZEL TANK #
WP	WEATHER PROOF
XPLP	EXPLOSION PROOF
1P, 2P, 3P	SINGLE POLE, TWO POLE, THREE

	POWER SYMBO	<u>OLS</u>				
5 3 1	HOMERUN-NUMERAL WHERE USED IN NUMBER FOR REFERENCE ONLY. ONE CKT. HOMERUN, U.O.N. TWO CKT. HOMERUN, U.O.N. 4#12+1# HOMERUN, U.O.N.	2#12+1#12G-3/4"C FOR 3#12+1#12G-3/4"C FOR				
J	CEILING MOUNTED JUNCTION BOX					
JH	FLUSH WALL MOUNTED JUNCTION BO	X				
GND	WALL MOUNTED GROUND BUS BAR					
CR	CONTROL RELAY					
WP / / 30/U/2	SWITCH RATING FUSE SIZE ("U" IF UNFUSED) POLES	DISCONNECT SWITCH, RATING AND FUSING NOTED. HORSEPOWER RATING AS REQUIRED BY MOTOR LOAD. 'WP' INDICATES WEATHERPROOF NEMA 4X ENCLOSURE, OTHERWISE NEMA-1. SUBSCRIPT "L" INDICATES LOCKABLE TYPE.				
	EXISTING CONDUIT/EQUIPMENT TO R	EMAIN				
	NEW CONDOTT/EQUI MENT					
A a	PENDANT MOUNTED 1'x4' LED LIGHT DENOTES FIXTURE TYPE. SUBSCRIF CONTROL.TRIANGLE SHADE INDICA	TION DENOTES SWITCH				
[FACP]	EXISTING FIRE ALARM CONTROL PA	NEL				
\boxtimes	MOTOR STARTER WITHOUT DISCONNECT SWITCH, WITH PUSH BUTTON STATIONS & H-O-A. STARTER RATING AS PER HORSEPOWER OF THE MOTOR INDICATED.					
\$ _{WP}	· ·	LE SWITCH MOUNTED AT 48" A.F.F. SUBSCRIPT TROLLED. "WP" INDICATES WEATHER PROOF CATION OF SWITCHES.				
	LIGHTING AND POWER PANEL BO					





WO NICE-PAK PARK,



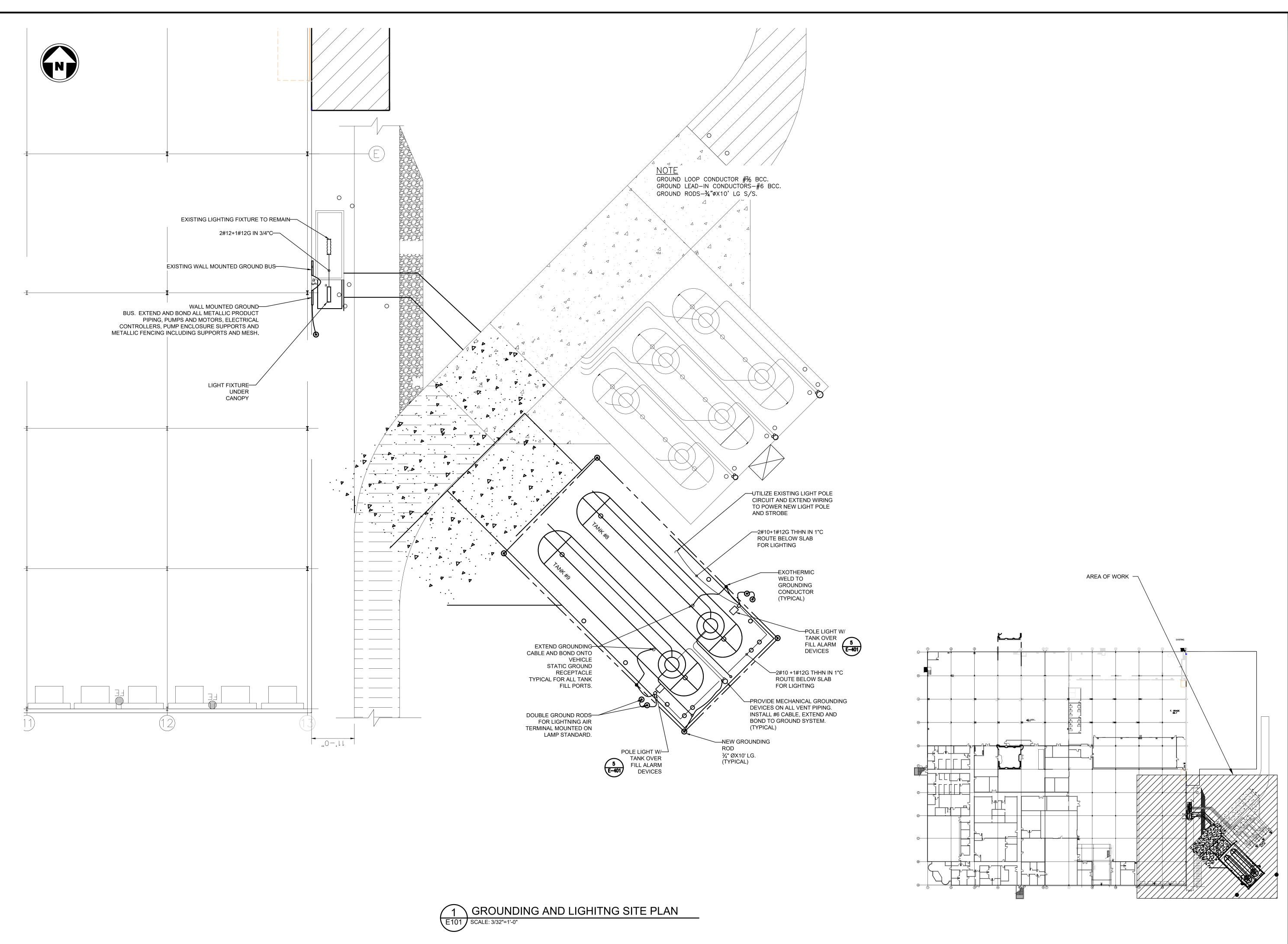
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EELECTRICAL
GENERAL NOTES,
SYMBOLS &
ABBREVIATION

GPI PROJECT/CONTRACT NO.:

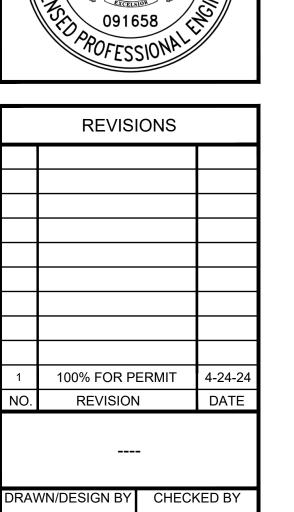
E004

SHEET OF 3





UPGRADE TWO NICE-PAK PARK ORANGEBURG, NY 10962



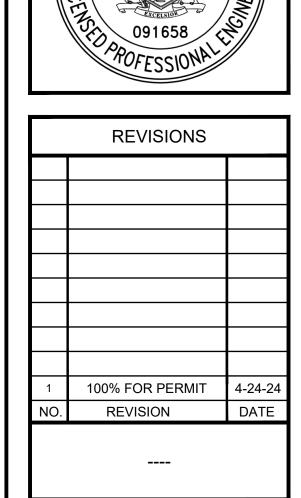
ELECTRICAL TANK FARM GROUNDING LIGHTING PROTECTION AND LIGHTING

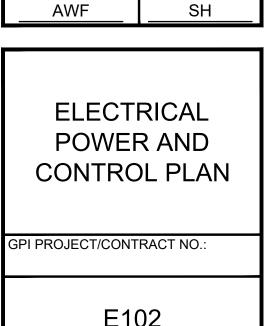
GPI PROJECT/CONTRACT NO.:

E101

Greenman-Pedersen, Inc. 2 Executive Boulevard, Suite 202 Suffern, NY 10901 PREPARED FOR CAPACITY UPGRADE TWO NICE-PAK PARK ORANGEBURG, NY 10962

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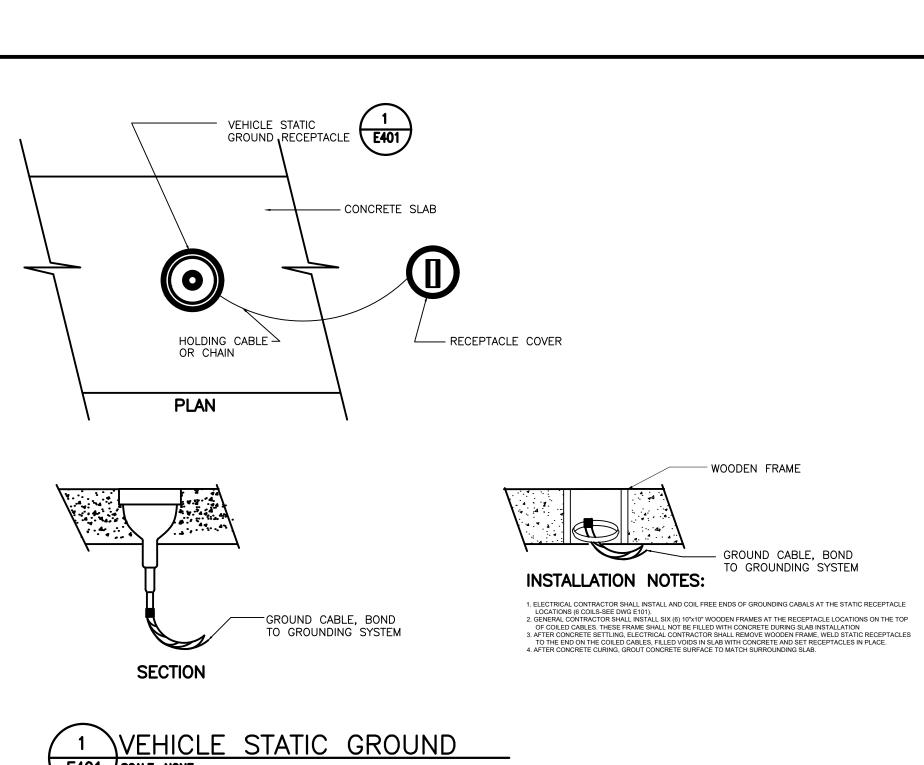


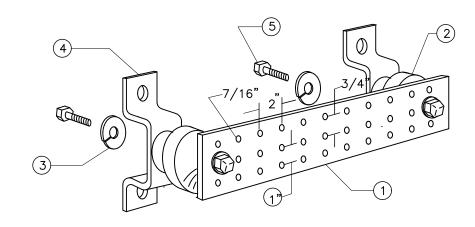
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Greenman-Pedersen, Inc. 2 Executive Boulevard, Suite 202 Suffern, NY 10901 LPD STORAGE CAPACITY UPGRADE TWO NICE-PAK PARK ORANGEBURG, NY 10962 REVISIONS REVISION DRAWN/DESIGN BY CHECKED BY ELECTRICAL LEVEL AND LEAK DETECTION INSTRUMENT PLAN GPI PROJECT/CONTRACT NO.:

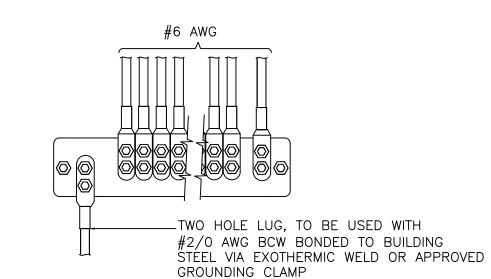




1-COPPER GROUND BAR, 1/4"X 4"X 36", NEWTON INSTRUMENT CO. CAT. NO. B-6142 OR EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VERY BASED ON NUMBER OF GROUND CONNECTION) 2-INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR EQUAL.

3-5/8" LOCK WASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8 OR EQUAL. 4-WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A-6056 OR

5-5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO. CAT NO. 3012-1 OR EQUAL.



- WOODEN FRAME

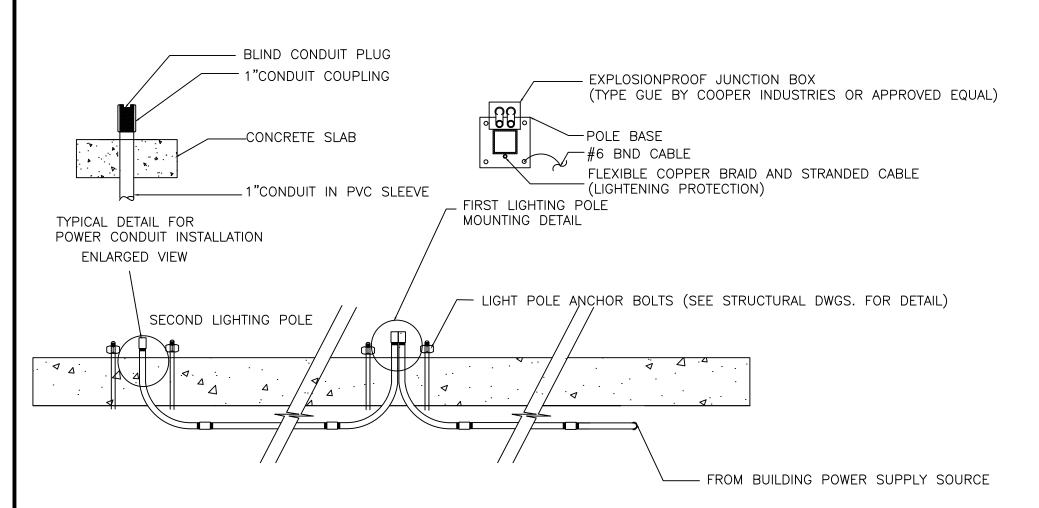
- GROUND CABLE, BOND TO GROUNDING SYSTEM

* ALL LUG TO HAVE 2 BOLT HOLES * GROUNDING - STANDARD 2. 10 1. *

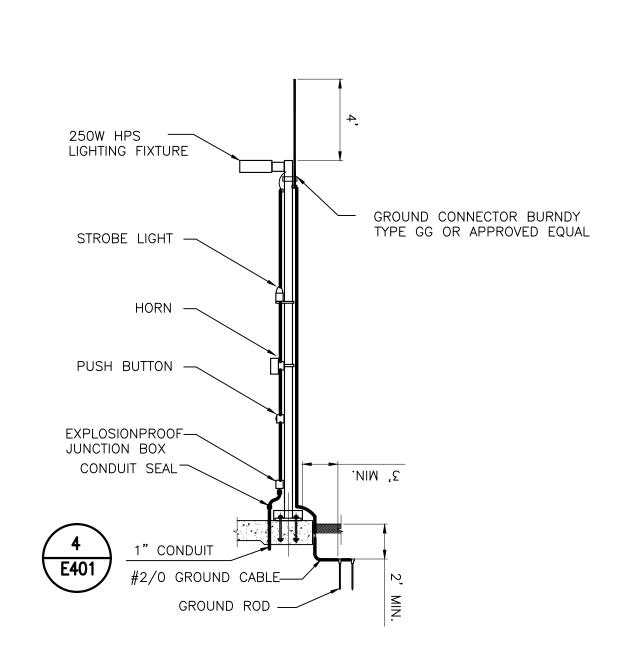
GROUND BAR ON WALL SEE DETAIL

GROUND TERMINATION DETAIL E401 SCALE: NONE

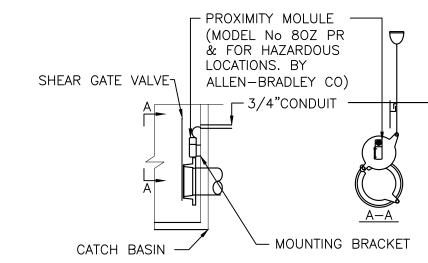




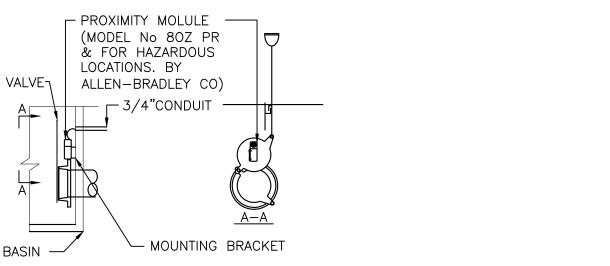
POWER SUPPLY TO LIGHTING POLES DETAIL



5 LIGHT POLE INSTALLATION DETAIL E401 SCALE: NONE



6 DRAIN VALVE MONITORING DETAIL E401 SCALE: NONE



LPD STORAGE CAPACITY UPGRADE TWO NICE-PAK PARK ORANGEBURG, NY 10962

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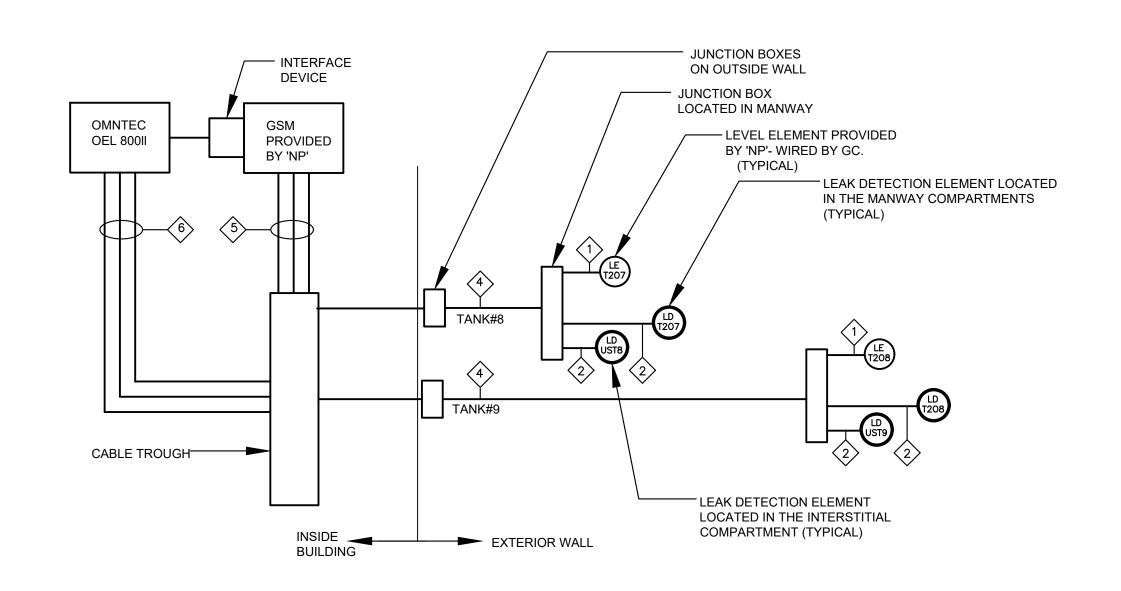
Suffern, NY 10901

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ELECTRICAL SECTIONS & **DETAILS** GPI PROJECT/CONTRACT NO.: E401

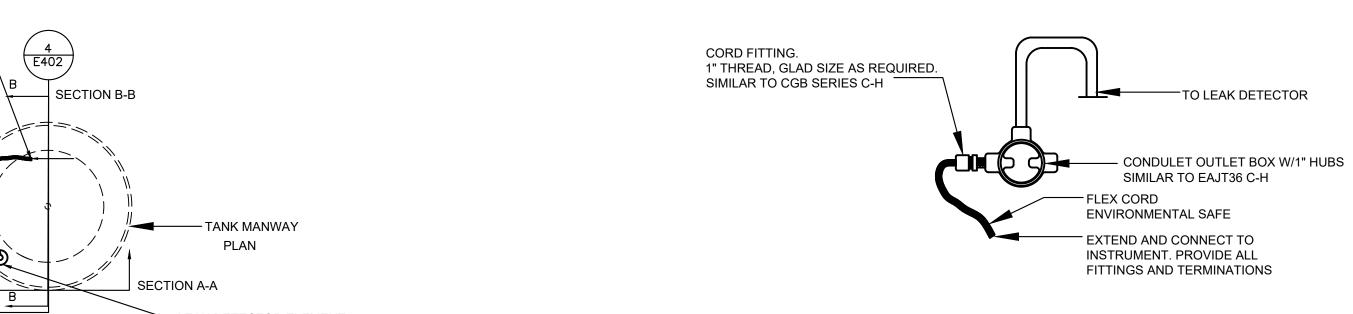


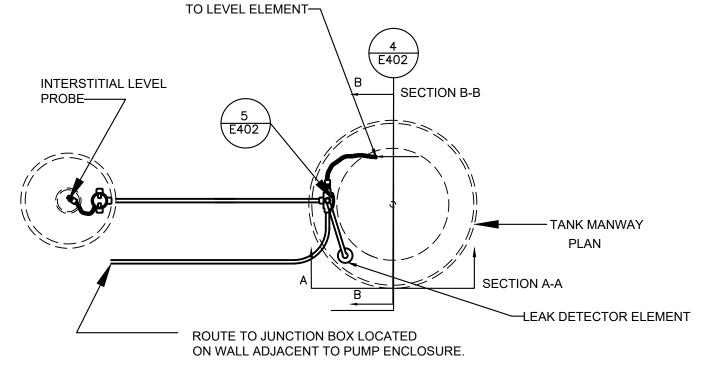


	WIRE AND CONDUIT SO	CHEDULE
SYMB	QUANTITY, WIRE/CABLE SIZE, CONDUIT SIZE.	COMMENTS
1	1-2/C, #22, SHLD, TWPR, 300V-1"C.	BELDEN # 8761
2>	1-4/C, #22 SHLD. TWPR, 300V1"C.	BELDEN # 9940
3>	2 CABLES 1#1 AND 1#2	BELDEN # 8761+ BELDEN# 9940
4>	3-CABLES, 2#1 AND 1#2-1"C.	BELDEN # 8761 & #9940
\$	6-CABLES @ 3SETS (2#1)-1"C.	6x BELDEN # 8761
6	3-CABLES 4/C #22, SHLD, TWPR, 300V1"C.	3X BELDEN # 9940

WIRE AND CABLE SCHEDULE
SCALE: NONE

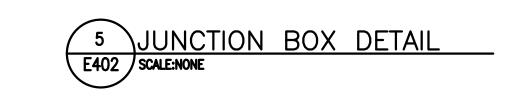
1 INTERCONNECTON DIAGRAM E402 SCALE: NONE

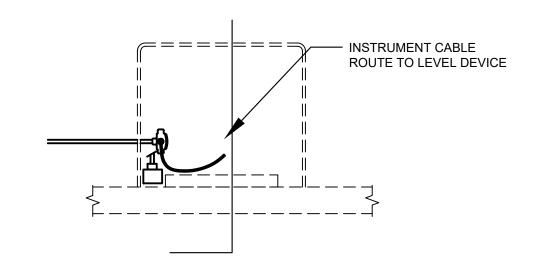


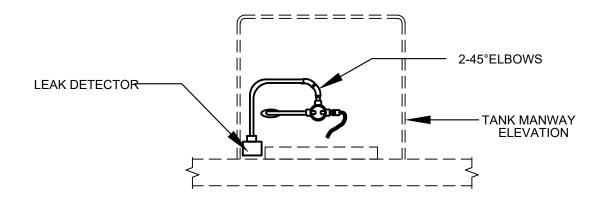


3 TANK MANWAY

E402 SCALE: NONE









6 MANWAY ELEVATION SECTION B-B E402 SCALE: NONE



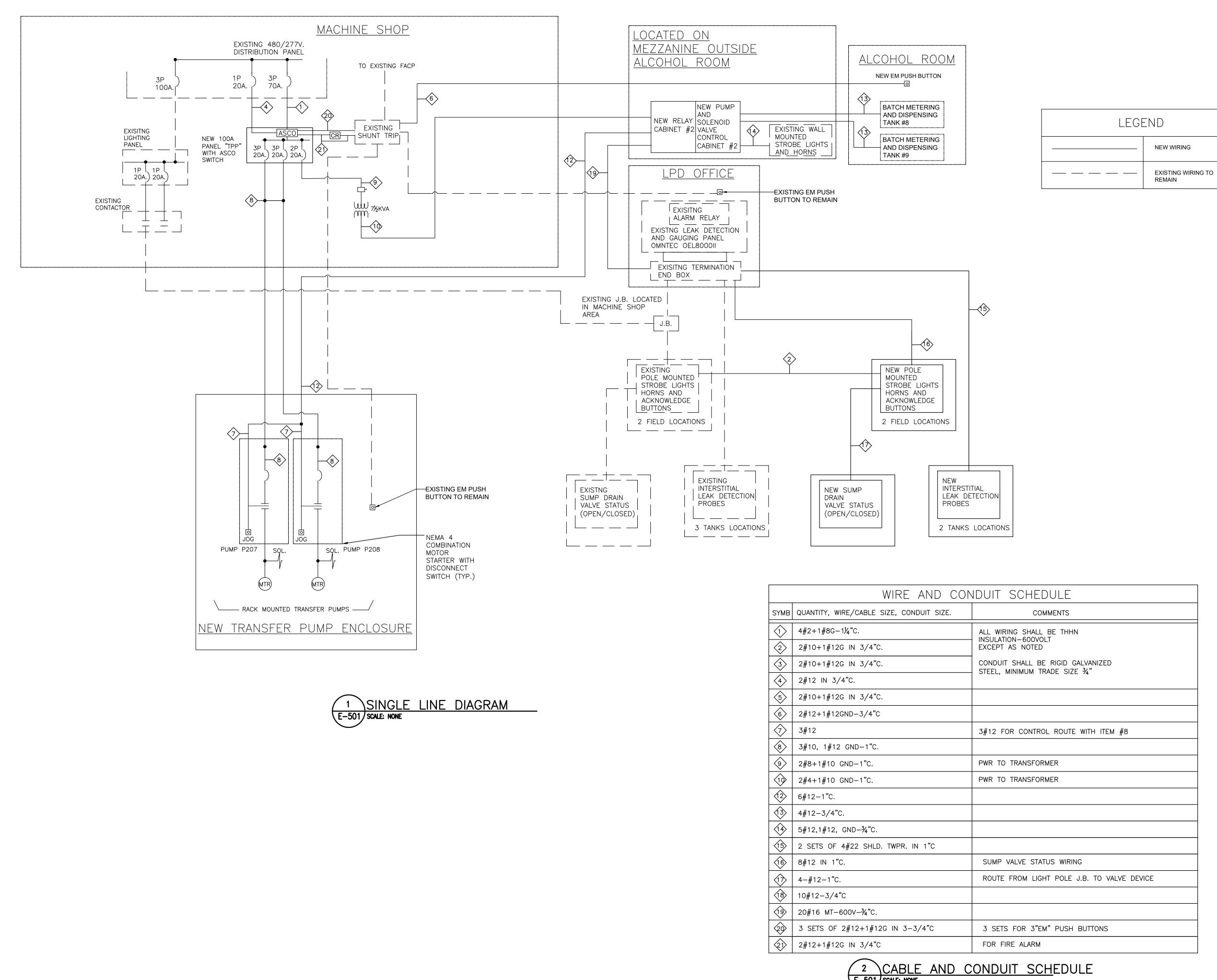
LPD STORAGE CAPACITY UPGRADE TWO NICE-PAK PARK ORANGEBURG, NY 10962

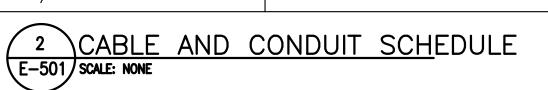
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ELECTRICAL LEVEL AND LEAK DETECTION INSTRUMENT **DETAILS**

GPI PROJECT/CONTRACT NO.:

E402







LPD STORAGE CAPACITY UPGRADE TWO NICE-PAK PARK ORANGEBURG, NY 10962

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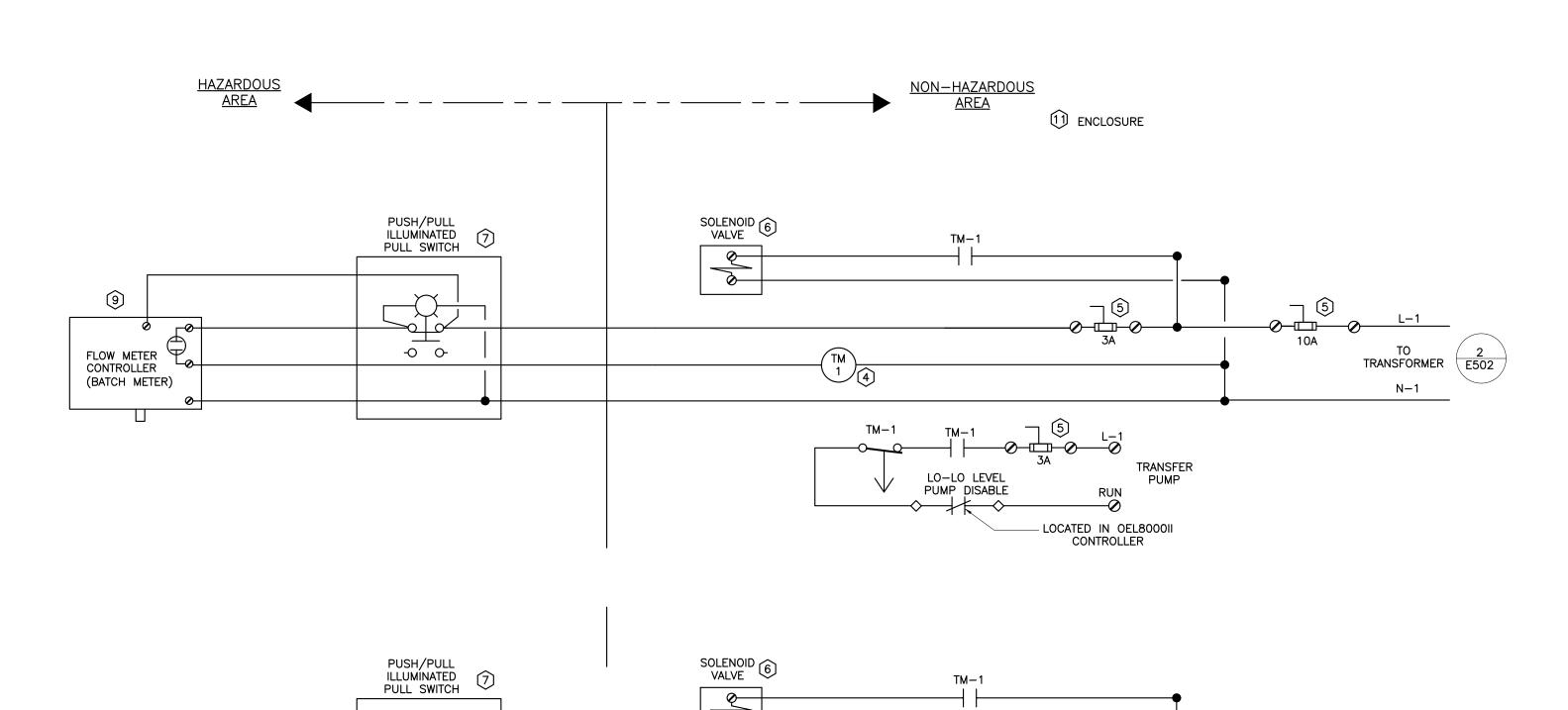
ELECTRICAL SINGLE LINE DIAGRAM CABLE AND CONDUIT
AND CONDUIT
SCHEDULE

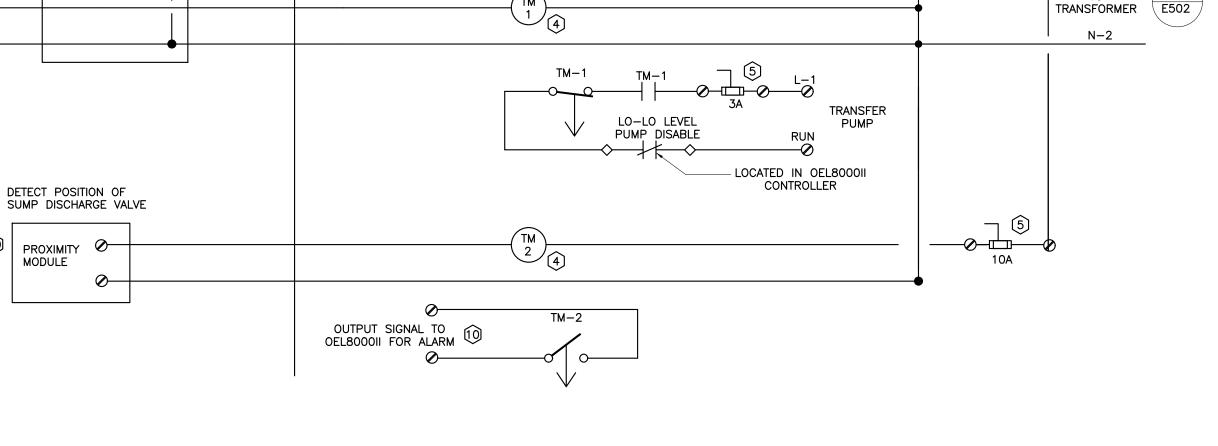
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FLOW METER CONTROLLER

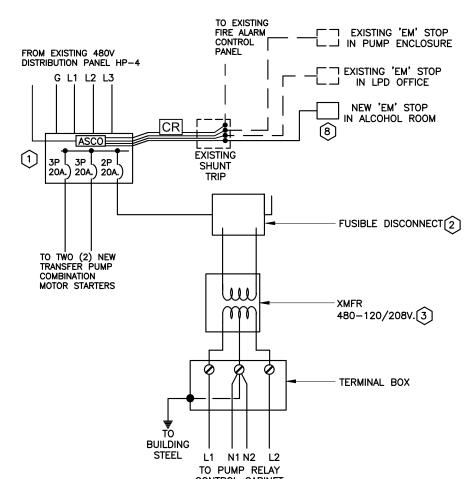
(BATCH METER)







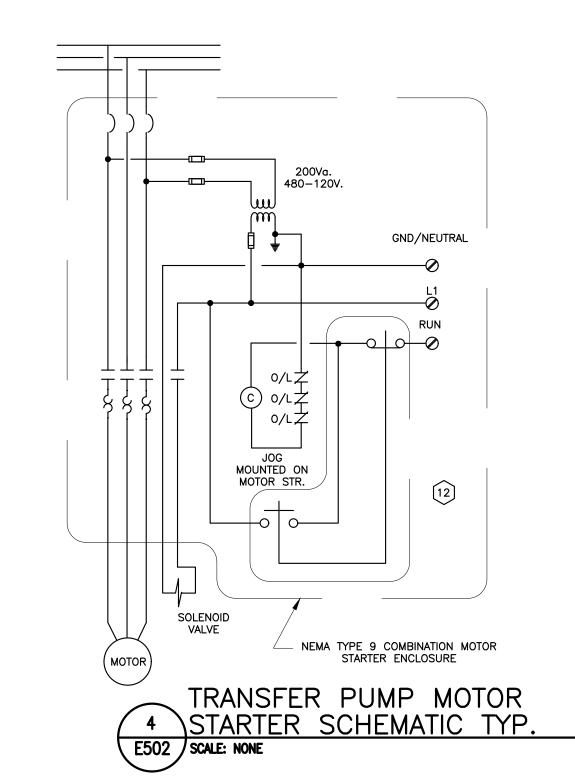
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\POWER DISTRIBUTION CENTER E502 SCALE: NONE

L-2

TO



ITEM	PRODUCT	NOMENCLATURE
_		
(1)	POWER PANEL W/ASCO CONTACTS	NEW 100AMP, 3ø, 277/480V POWER PANEL WITH ASCO CONTACTS
2	DISCONNECT	2P,30AMP, UNFUSED DISCONNECT SWITCH, HEAVY DUTY, 600VOLT, NEMA TYPE 1 ENCLOSURE
	SWITCH	
3	TRANSFORMER	TRANSFORMER, 1ø, 7½KVA.480-120V, GENERAL PURPOSE ENCLOSURE W/GROUND BUS
4	TIMING RELAY	RELAY W/3-N.O. INSTANTANEOUS CONTACTS, ADJUSTABLE TIME DELAY AFTER ENERGIZATION, (TIME-LATER)
(5)	FUSED T.B.	RAIL MOUNTED, SCREW TYPE TERMINAL BLOCK W/FUSED BLOCK, FUSED AS INDICATED, SIMILAR TO
(6)	SOLENOID VALVE	A-B#1492-CE6 3-WAY 110 OPERATING COIL, 125# AIR PRESSURE, ADJUSTABLE DISCHARGE PORT.
\sim	SOLLINOID VALVE	3-WAT ITO OPERATING COIL, 125# AIR PRESSURE, ADJUSTABLE DISCHARGE PORT.
0	ILLUMINATED P.B.	2-POSITION, ILLUMINATED PUSH BUTTON, 110V, LED, MAINTAINED OPERATOR, FOR INSTALLATION IN HAZARDOUS AREA -NEMA TYPE 9, CLASS 1, DIVISION 1D. MOUNTED IN METALLIC ENCLOSURE.
8	EM PUSH BUTTON	OIL TIGHT OPERATOR, N.O. MOMENTARY, NEMA TYPE 12 ENCLOSURE. W/EXTENDED GUARD. NAMEPLATE 'E-STOP'.
9	BATCH METER	BATCH METER W/FLOW ELEMENT. METER PROVIDED IN EXPLOSION-PROOF ENCLOSURE MFG. 'CONTREC'
10	PROX. MODULE	INDUCTIVE PROXIMITY CONTROL, SOLID STATE, APPROVED FOR HAZARDOUS LOCATION, NEMA TYPE 4 ENCLOSURE
(1 ₁)	ENOLOGUEE	WITH TERMINALS AND THREADED CONDUIT OPENING. SIMILAR TO A-B 802PR.
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ENCLOSURE	RELAY CABINET: THE FOLLOWING SHALL INCLUDE BUT NOT LIMITED TO—NEMA TYPE 12, WITH BACK MOUNTING PANEL, ENCLOSED WIREWAY (SIMILAR TO WIREMOLD) RAIL MOUNTED SCREW TERMINAL STRIP WITH FUSED
		MODULES RATED AS INDICATED SIMILAR TO A-B#1492, ADJUSTABLE TIMING RELAYS AND WIRED AND CONFIGURED
		TO FUNCTION AS INDICATED ON SEQUENCE OF OPERATION. ALL DEVICES SHALL BE TERMINATED ON THE TERMINAL STRIP
(12)	COMB. MTR	COMBINATION CIRCUIT BREAKER TYPE MOTOR STARTER IN NEMA TYPE 9,3R ENCLOSURE WITH EXTENDED
	STARTER	OVER LOAD RESET BUTTON AND NEMA 4 MOMENTARY CONTACT COVER MOUNTED JOG PUSH BUTTON.
		INCLUDE 200VA, 480/120VOLT CONTROL TRANSFORMER W/2 FUSED PRIMARY AND SINGLE FUSED SECONDARY. SIMALAR TO ALLEN-BRADLEY # 513BUB38 600VOLT,



PRODUCT TRANSFER OPERATION PROCEDURE

OPERATOR SHALL SELECT TYPE OF PRODUCT AND REQUIRED QUANTITY. AFTER COMPLETION OF THE FIRST STEP, OPERATOR SHALL PERFORM THE

- * VERIFY THAT THE INDICATOR LIGHT ON THE PULL SWITCH IS ILLUMINATED, IF NOT, PULL THE BUTTON UNTIL THE LAMP IS LIGHTED.
- * ENTER THE QUANTITY OF MATERIAL TO BE DISPENSED ON THE BATCHMETER. * IF THE DISPLAYED QUANTITY IS CORRECT AND THE CONTAINER TO RECEIVE THE PRODUCT IS IN PLACE, HE SHALL PRESS THE START BUTTON ON

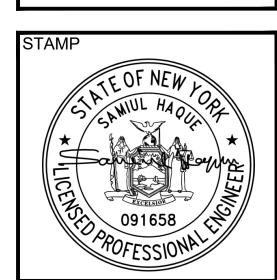
- A) CLOSING CONTACTS ON THE BATCHMETER WILL ENERGIZE THE TIMING RELAY IN THE REMOTE RELAY CABINET.
- B) TIMING RELAY WILL SIGNAL THE DISCHARGE SOLENOID VALVES IN THE ALCOHOL ROOM TO OPEN AND SIMULTANEOUSLY START THE OUTDOOR
- C) SHOULD THE OPERATOR WISH TO STOP PRODUCT DELIVERY AND FREEZE THE DISCHARGE QUANTITY, HE CAN PRESS THE ILLUMINATED SWITCH PUSH-BUTTON WHICH WILL TRIGGER STOPPING THE PUMP, CLOSING THE SUCTION SOLENOID VALVE AND CLOSING THE PRODUCT DELIVERY VALVES IN
- THE ALCOHOL ROOM.
- D) PULLING THE ILLUMINATED SWITCH WILL RESTART THE DELIVERY PROCESS WITHOUT RESETTING THE METER.
- E) SHOULD THE TIMING RELAY DETECT AN OVEREXTENDED PUMP TIME, THE TIMING RELAY WILL DISENGAGE THE TRANSFER PUMP, SHUTTING-DOWN
- F) TO RESTART THE TRANSFER, OPERATOR SHOULD PUSH IN AND PULL OUT THE ILLUMINATED PUSH-BUTTON. THIS WILL RESET THE TIMER, AND INITIATE PRODUCT DELIVERY UNTIL THE QUANTITY INDICATED ON THE BATCHMETER HAS BEEN DISPENSED. THEN THE METER WILL STOP THE PUMP AND ALL VALVES WILL CLOSE.



LPD STORAGE CAPACITY UPGRADE TWO NICE-PAK PARK ORANGEBURG, NY 10962

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TWO NICE-PAK FOR ORANGEBURG,



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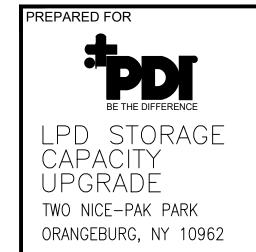
ELECTRICAL SCHEMATIC DIAGRAM RELAY **CONTROL CABINET**

GPI PROJECT/CONTRACT NO.:

				PAN	EL SCHED	ULE				
PANEL NAME:	TPP	LC	CATI	ON:	IV	ACHINE S	SHOP	ļi.	MOUNTING:	SURFACE
VOLTAGE/PHASE:	277/480V, 3 Phase, 4W & G	PA	NEL (AMP)		100A			FREQUENCY:	60 Hz
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FEI	DER	SIZE	4#2	+1#8G IN	1 1/4	'C	FEEDING SOURCE:	PANEL HP-4 (SEC. B)
MAIN BREAKER TYPE	МСВ		N BRE	AKER (A):		100A			BRANCH C.B TYPE	MCCB
Load Decimation	Wining			Pha	se Load in	VA			Minima	Load Designation
Load Designation	Wiring	C/B (A)	CT NO	AØ	ВØ	CØ	CT NO	C/B (A)	Wiring	Load Designation
					CO SWIT	СН				
TRANSFER PUMP P207	3#10 + 1#12GIN 1"C	25	3 5	3880 3880	3880 3880	3880 3880	4	25	3#10 + 1#12GIN 1"C	TRANSFER PUMP P208
SPARE		25	9	3744	3744		8	20	2#8 + 1#10G IN 3/4"C	7.5kVA STEP DOWN TRANSFORMER TO PUMP & SOLENOID VALVES CONTROI RELAY CABINET #2
SPARE		20	13				12	20		SPARE
SPARE		20	15				16	20		SPARE
SPARE		20	17	'			18	20		SPARE
SPACE			19		' 		20			SPACE
SPACE			21				22			SPACE
SPACE			23	<u> </u>			24			SPACE
CON	NECTED LOAD PER PHA	SE IN	۷A	11504	11504	7760	PAN	IEL TYPE:		MOUNTING: SURFACE
	TOTAL CONNECTED LOA	D IN A			30.768		COF	PER BUS	EQUIP. GROUND BAR	







ORANGEBURG, NY 10

TWO NICE-PAK PARK, ORANGEBURG, NY 10962

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GPI PROJECT/CONTRACT NO.:

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SHEET OF 3