	ABBREVIATIONS
	A DOME ETNICHED ELOOD OD ODADE
AFF	ABOVE FINISHED FLOOR OR GRADE
AIC	AMPERES INTERRUPTING CAPACITY
AL OR ALUM	ALUMINUM
AMP OR A	AMPERE AMERICAN WIRE GAUGE
AWG C.	CONDUIT
CKT	CIRCUIT
CPT	CONTROL POWER TRANSFORMER
CR	CONTROL RELAY
CT	CURRENT TRANSFORMER
CU	COPPER
ELEV	ELEVATION
EM	EMERGENCY
ESD	EMERGENCY SHUTDOWN BUTTON
EXIST.	EXISTING
FO	FIBER OPTIC
FT	FEET
G. OR GRD	GROUND
GA.	GAUGE
GFI	GROUND FAULT INTERRUPTER
GFS	GROUND FAULT SENSING
HP	HORSEPOWER
HTR	HEATER
HZ	HERTZ
ID	INTERNAL DIAMETER
IRP	INTERPOSING RELAY PANEL
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATT
LC	LIGHTING CONTACTOR
LED	LIGH EMITTING DIODE
LGTS ON LTG	LIGHTS/LIGHTING
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MFR'S	MANUFACTURER'S
MDP	MAIN DISTRIBUTION PANEL
MH	MANHOLE MAIN LUCE ONLY
MLO MPR	MAIN LUGS ONLY MOTOR PROTECTION RELAY
NC OR N.C.	NORMALLY CLOSED
NF NF	NON-FUSED
NO OR N.O.	NORMALLY OPEN OR NUMBER
OD OR N.O.	OUTSIDE DIAMETER
OHE	OVERHEAD ELECTRIC
P	POLE
PB	PULL BOX OR PUSH BUTTON
PC	PHOTOCELL
PH	PHASE
PLC	PROGRAMMABLE LOGIC CONTROLLER
PR.	PAIR OR PAIR CABLE
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
RC	REMOTE CONTROL
REC	CIRCUIT RECLOSURE
REQD	REQUIRED
RTU	REMOTE TERMINAL UNIT
SHLD. OR SH	SHIELD OR SHIELDED
CN CD CC:	SOLID NEUTRAL
SN OR S/N	CURAC PROTECTION REVISE
SN OR S/N SPD	SURGE PROTECTION DEVICE
	SOLID STATE REDUCED VOLTAGE STARTER
SPD SSRVS	SOLID STATE REDUCED VOLTAGE STARTER
SPD SSRVS SS	SOLID STATE REDUCED VOLTAGE STARTER STAINLESS STEEL
SPD SSRVS SS TR.	SOLID STATE REDUCED VOLTAGE STARTER STAINLESS STEEL TRIAD
SPD SSRVS SS TR. TYP	SOLID STATE REDUCED VOLTAGE STARTER STAINLESS STEEL TRIAD TYPICAL
SPD SSRVS SS TR. TYP UG	SOLID STATE REDUCED VOLTAGE STARTER STAINLESS STEEL TRIAD TYPICAL UNDERGROUND
SPD SSRVS SS TR. TYP UG UPS	SOLID STATE REDUCED VOLTAGE STARTER STAINLESS STEEL TRIAD TYPICAL UNDERGROUND UNINTERRUPTIBLE POWER SUPPLY
SPD SSRVS SS TR. TYP UG UPS UTP	SOLID STATE REDUCED VOLTAGE STARTER STAINLESS STEEL TRIAD TYPICAL UNDERGROUND UNINTERRUPTIBLE POWER SUPPLY INSHIELED TWISTED PAIR CABLE
SPD SSRVS SS TR. TYP UG UPS UPS UTP V	SOLID STATE REDUCED VOLTAGE STARTER STAINLESS STEEL TRIAD TYPICAL UNDERGROUND UNINTERRUPTIBLE POWER SUPPLY INSHIELED TWISTED PAIR CABLE VOLTS
SPD SSRVS SS TR. TYP UG UPS UTP	SOLID STATE REDUCED VOLTAGE STARTER STAINLESS STEEL TRIAD TYPICAL UNDERGROUND UNINTERRUPTIBLE POWER SUPPLY INSHIELED TWISTED PAIR CABLE

DI ANI CI MADOL		
PLAN SYMBOL	DESCRIPTION	
b A	LIGHTING FIXTURE "A"-FIXTURE TYPE "b" -SWITCH NUMBER	
	CONDUIT, EXPOSED/SURFACE MOUNTED	
	CONDUIT OR DUCTBANK, CONCEALED	
	CONDUIT STUBBED OUT AND CAPPED	
—-ОНЕ	OVERHEAD ELECTRICAL LINE	
——UGC ——	UNDERGROUND ELECTRICAL LINE	
——UGE ——	UNDERGROUND COMMUNICATION LINE	
A-1	PANEL A, CIRCUIT 1	
LA-2	HOMERUN, CIRCUITS 1 AND 3 RUN TO PANEL LA	
\$b	SINGLE POLE SWITCH, "b" INDICATES SWITCH LEG SHALL CONTROL LIGHT FIXTURES WITH "b" DESIGNATION	
\$M	MANUAL MOTOR STARTER/ DISCONNECT	
\$3	3 WAY SWITCH	
\$4	4 WAY SWITCH	
\$TM TM	TIME SWITCH	
⇒GFI, WP	DUPLEX RECEPTACLE , 20A, 120V, 2P, 3W	
⊙F	FLOOR MOUNTED RECEPTACLE	
\ominus	SIMPLEX RECEPTACLE, GROUNDED TYPE	
+	QUADPLEX RECEPTACLE	
J J	JUNCTION BOX	
РВ	PULL BOX	
OS	OCCUPANCY SENSOR	
PC	PHOTOCELL	
МН	MANHOLE	
M	UTILITY METER	
E	EMERGENCY SUTDOWM	
<u>_</u>	GROUND	

ONE-LINE OR CONTROL	PLAN	DESCRIPTION		
П		'ANEL		
5		MOTOR, NUMBER DESIGNATES HORSEPOWER		
°) A	(CB)	LOW VOLTAGE CIRCUIT BREAKER, 3 POLE UNLESS OTHERWISE NOTED A - AMP TRIP, P - POLES		
°) MCP		MOTOR CIRCUIT PROTECTOR		
₩	T	TRANSFORMER, RATINGS, AND CONNECTIONS AS NOTED		
—	-	CONDUCTORS OR CONDUITS CROSSING PATHS BUT NOT CONNECTED		
	-	CONDUCTORS ELECTRICALLY CONNECTED		
	-	INDICATES LIMITS OF EQUIPMENT OR WIRING ENCLOSURE		



ISSUE:

REV	DESCRIPTION	DA
<u> </u>	SCHEMATIC DESIGN	3/2
	JOHENNA HO DESIGN	3/2
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CITY OF ST. PETERSBURG FAST FILL UPGRADE

)TH AVENUE NORTH ST. PETERSBURG, FLORIDA

ELECTRICAL LEGEND, AND ABBREVIATIONS

E001

NOTE:

1. ENGINEER OF RECORD, DURAK EVRIM ERCAN, P.E. SCOPE OF SERVICES ARE LIMITED ONLY FOR THE INSTALLATION OF NEW EQUIPMENT IDENTIFIED WITH THIS DESIGN. EXISTING INSTALLATION AND EXISTING EQUIPMENT IS NOT PART OF ENGINEER OF RECORD'S SCOPE OF WORK.

SHEET	11	OF	19
SCALE			
DATE		MAY	17, 2021

GENERAL NOTES:

- 1. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE 2020 NATIONAL ELECTRICAL CODE AND WITH LOCAL ELECTRICAL ORDINANCES.
- 2. THE ENTIRE INSTALLATION MUST COMPLY WITH THE 2020 NATIONAL ELECTRICAL CODE, INCLUDING BUT NOT LIMITED TO ARTICLE 514.
- 3. ALL ELECTRICAL WORK SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A MASTER ELECTRICIAN WHO HOLDS A VALID LICENSE IN THE LOCAL STATE. ALL WIRING, EQUIPMENT, DEVICES, AND INSTALLATIONS SHALL CONFORM TO LOCAL, STATE, BUILDING AND FEDERAL CODES AS WELL AS ALL AUTHORITIES HAVING JURISDICTION. ALL ELECTRICAL WORK MUST COMPLY WITH THE REQUIREMENTS OF NFPA 70, NEC, NFPA 70B, NFPA 70E, IECC, OASHA IN ADDITION TO OTHER REFERENCES REQUIRED BY CONTRACT.
- 4. ALL ELECTRICAL EQUIPMENT ENCLOSURES SHALL BE DEAD FRONT RATED NEMA 3R UNLESS NOTED OTHERWISE. ALL ENCLOSURES SHALL BE LOCKABLE WITH A SINGLE THREE POINT LATCH LOCATED ON THE DOOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING LOCKS AS REQUIRED BY THE OWNER. THE CONTRACTOR SHALL FURNISH KEYS TO THE OWNER AS REQUIRED. ALL LOCKS SHALL BE KEYED ALIKE.
- 5. ALL CONDUCTORS SHALL BE 600V COPPER AND SHALL BE INSULATED WITH TYPE XHHW/XHWN INSULATION.
- 6. USE THE FOLLOWING COLOR CODE FOR 120/240V, 1-PHASE WIRING:

PHASE A - BLACK PHASE B - RED NEUTRAL - WHITE

EQUIPMENT GROUNDING CONDUCTOR - GREEN

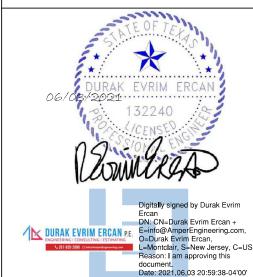
7. USE THE FOLLOWING COLOR CODE FOR 480Y/277V, 3-PHASE WIRING:

PHASE A - BROWN
PHASE B - ORANGE
PHASE C - YELLOW
NEUTRAL - GRAY
EQUIPMENT GROUNDING CONDUCTOR - GREEN

- 8. ALL 480V CIRCUIT CONDUITS ABOVE GROUND SHALL BE GALVANIZED RIGID ALUMINUM.
- 9. ALL CONDUITS ABOVE GROUND FOR 240V CIRCUITS AND BELOW SHALL BE GALVANIZED RIGID ALUMINUM CONDUIT UNLESS NOTED OTHERWISE. PROVIDE END BELLS, GROUND BUSHINGS, LOCKNUTS, CONDUIT DRAINS, BUSHINGS, ETC. AS REQUIRED.
- 10. ALL UNDERGROUND CONDUITS SHALL BE SCHEDULE 80 PVC UNLESS NOTED OTHERWISE. PVC CONDUIT SHALL NOT BE INSTALLED ABOVE GRADE.
- 11. ALL UNDERGROUND CONDUIT BENDS SHALL BE FACTORY COATED (PVC) RIGID STEEL BENDS. PVC COATED RIGID STEEL CONDUIT SHALL BE AS MANUFACTURED BY PERMA-COTE. CONDUITS STUBBED-UP OUT OF THE GROUND SHALL BE PVC COATED RIGID STEEL.
- 12. PROVIDE CONDUIT SEALS AND EXPLOSION PROOF FITTINGS AS REQUIRED PER THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND THE NATIONAL ELECTRICAL CODE (NEC).
- 13. EXCAVATION, TRENCHING, BACKFILLING AND GRADING: PRIOR TO ANY EXCAVATION OR TRENCHING, NOTIFY THE OWNER'S REPRESENTATIVE, UTILITY COMPANIES AND OWNER'S FACILITIES DEPARTMENT, ALLOW SUFFICIENT TIME FOR UTILITIES TO BE LOCATED PRIOR TO EXCAVATION TO AVOID DISRUPTION OF SERVICES, PROVIDE A MINIMUM OF 72 HOURS WRITTEN NOTICE TO THE OWNER PRIOR TO TRENCHING OR EXCAVATION. DO NOT PROCEED WITH TRENCHING OR EXCAVATION UNTIL AUTHORIZED BY THE OWNER. UTILITIES OR SERVICES WHICH ARE DAMAGED, WHICH ARE IDENTIFIED PRIOR TO EXCAVATION OR TRENCHING, OR WHERE CONFIRMATION BY UTILITY COMPANIES HAS NOT BEEN OBTAINED VERIFYING THAT UTILITIES ARE MARKED, SHALL BE REPAIRED TO OPERABLE CONDITION IMMEDIATELY, AT NO COST TO THE OWNER. BARRICADE OPEN TRENCHES AND EXCAVATIONS FOR THE ENTIRE DURATION OF THE PROJECT. BARRICADES FOR EXCAVATIONS SHALL HAVE WARNING LIGHTS MAINTAINED DURING HOURS OF DARKNESS. TRENCHES SHALL BE MARKED WITH WARNING TAPE, OR ACCESS TO TRENCHES SHALL BE PROHIBITED WITH READILY IDENTIFIABLE SAWHORSES, WARNING TAPE OR OTHER ACCEPTABLE MEANS. BARRIERS SHALL BE ILLUMINATED OR RECOGNIZABLE DURING HOURS OF DARKNESS. BARRIERS AND TAPE SHALL BE PROPERLY MAINTAINED AT ALL TIMES. PROTECT ALL ADJACENT WORK, STRUCTURES AND PROPERTIES. DAMAGE TO ADJACENT WORK, STRUCTURES OR PROPERTIES SHALL BE REPAIRED, OR THE COST OF REPAIR REIMBURSED IN FULL. ALL CONSTRUCTION AREAS SHALL BE FINALLY GRADED AS INDICATED ON THE CONTRACT DOCUMENTS, OR TO THE CONDITIONS OF THE SITE PRIOR TO CONSTRUCTION. GRADING SHALL BRING THE SITE BACK TO THE EXISTING CONDITIONS AS CLOSE AS PRACTICAL. TURFED AREAS SHALL BE SODDED, OR HYDRO-MULCHED WITH MATCHING TURF. LANDSCAPING SHALL BE REPLACED WITH IDENTICAL SHRUBBERY, GROUND COVER, OR PLANTS AS EXISTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING WATER ON NEW TURF AND LANDSCAPING UNTIL ESTABLISHED. IF NEW TURF AND LANDSCAPING IS IMPRACTICAL DUE TO WEATHER CONDITIONS, CONTRACTOR SHALL PROVIDE SATISFACTORY ARRANGEMENTS TO HAVE TURF AND LANDSCAPING FURNISHED AND INSTALLED AT THE EARLIEST OPPORTUNITY THEREAFTER. PROVIDE A 90-DAY YEAR WARRANTY ON NEW TURN AND LANDSCAPING. DETERMINE IF IRRIGATION SYSTEMS EXIST PRIOR TO TRENCHING AND EXCAVATION. OBTAIN RECORD OR AS-BUILT DRAWINGS AND LOCATE CONTROL WIRING AND PRESSURE MAIN BRANCHES AND DEVICES. DETERMINE BY ACTUAL OPERATION THAT SYSTEMS ARE FUNCTIONAL AND REPAIR OR REPLACE DAMAGED SYSTEMS TO THEIR ORIGINAL CONDITION PRIOR TO BEGINNING CONSTRUCTION.
- 14. ELECTRICAL EQUIPMENT, LIGHTING CONTACTOR, PANELBOARDS, TRANSFORMERS, ETC. SHALL BE MANUFACTURED BY SQUARE D, EATON, SIEMENS OR ABB. PANELBOARDS, SHALL HAVE TIN-PLATED COPPER BUS. SERIES RATING OF BREAKERS IS NOT ACCEPTABLE. TRANSFORMERS SHALL HAVE COPPER WINDINGS.
- PROVIDE A GROUNDING SYSTEM THAT INCLUDES ALL CONNECTIONS AND THE TESTING OF GROUND RODS, GROUND CABLES, GROUND BUSES, CONDUITS, FIT NGS, ANCHOR SUPPORTS, THERMITE PROCESS MATERIALS AND EQUIPMENT AND OTHER MATERIALS REQUIRED FOR A COMPLETE INSTALLATION. GROUNDING SYSTEM, THALL BE INSTALLED AND SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. MEASURE THE GROUND GRID RESISTANCE WITH THE EARTH TEST MOSGER AND INSTALL ADDITIONAL GROUND RODS AND CONDUCTORS AS REQUIRED UNTIL THE RESISTANCE TO THE GROUND CONFORMS TO NATIONAL ELECTRICAL CODE REPORT. GROUNDING SYSTEM.
- 16. THESE PLANS ARE SCHEMATIC, VERIFY EQUIPMENT SIZES, LOCATION AND CONDUIT ROUTING, ETC. PRIOR TO BID. CONTRACTOR SHALL VE. TE. No. IBER/SIZE OF CONDUCTORS AND CONDUIT REQUIRED BASED ON EQUIPMENT BEING PROVIDED AND PROVIDE AS REQUIRED. ALL CONDUIT, CABLE, GROUNDING, ETC. SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- 17. PROVIDE ALL WIRING, CONDUIT, LABOR AND MATERIALS NOT SHOWN ON PLAN, BUT NECESSARY FOR COMPLETE AND PROPER OF TRATIONS OF THE ELECTRICAL SYSTEM.
- 18. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES AND PERMITS AS NECESSARY TO COMPLETE THIS JOB. CONTRACTOR SHALL DVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO INSURE A COMPLETE WORKING SYSTEM.
- 19. INSTALLATION OF SWITCHES AND CONTROL DEVICES SHALL COMPLY WITH LOCAL CODES AND STATE ADA REQUIREMENT.
- 20. ALL ELECTRICAL EQUIPMENT, DEVICES AND CIRCUITS SHALL CONTAIN A GROUNDING CONDUCTOR. CONDUITS SYSTEM SHALL NOT BE USED AS GROUNDING NETWORK. ALL GROUNDING SHALL BE IN STRICT COMPLIANCE WITH ARTICLE NO. 250 OF THE NATIONAL ELECTRIC CODE.
- 21. COORDINATE LOCATION AND VERIFY REQUIREMENTS OF ALL EXTERIOR EQUIPMENT AND METER BASE WITH OWNER AND UTILITY COMPANY.
- 22. ALL PANELS, TRANSFORMERS AND BREAKERS SHALL HAVE ENGRAVED IDENTIFICATION LABELS.
- 23. CONTRACTOR IS RESPONSIBLE FOR NEC REQUIREMENT CLEARANCES AROUND AND ABOVE OF ALL ELECTRICAL EQUIPMENT AND DEVICES.
- 24. SHORT CIRCUIT AIC RATING OF ALL ELECTRICAL PRODUCTS SHALL BE GREATER THAN THE MAXIMUM AVAILABLE SHORT CIRCUIT CURRENT. COORDINATE WITH THE UTILITY FOR MAXIMUM AVAILABLE SHORT CIRCUIT CURRENT.
- 25. WIRE AND CONDUIT SIZES SHALL BE INSTALLED AND SIZED TO COMPENSATE FOR VOLTAGE DROP PER THE NEC.
- 26. ALL CONDUCTORS SHALL BE 98% COPPER (NO ALUMINUM CONDUCTORS WILL BE ACCEPTED).
- 27. ALL ELECTRICAL WIRING, VOICE/COMMUNICATION WIRING AND COAXIAL CABLES SHALL BE INSTALLED IN CONDUIT, WIREWAY OR OTHER PROTECTIVE COVE AS REQUIRED TO COMPLY WITH GOVERNING CODE.
- 28. CONTRACTOR SHALL PROVIDE FIRE PROOFING FOR ANY PIPES OR CONDUITS THAT PENETRATE THROUGH ANY FLOORS, WALLS, CEILINGS, ROOFS OR RUNS INSIDE OF CHASES.
- 29. CONTRACTOR TO PROVIDE AND INSTALL GROUNDING SYSTEM FOR EQUIPMENT, METAL FENCE, STEEL COLUMNS, ETC.



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ISSUE:

REV	DESCRIPTION	DATE
<u> </u>	SCHEMATIC DESIGN	3/25,
AE J	OB #	1418
JOB	#	21-002
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2.00		

CITY OF ST. PETERSBURG FAST FILL UPGRADE

)TH AVENUE NORTH ST. PETERSBURG, FLORIDA

CHECKED BY

ELECTRICAL
GENERAL NOTES

E002

 SHEET
 12
 OF
 19

 SCALE
 MAY 17, 2021

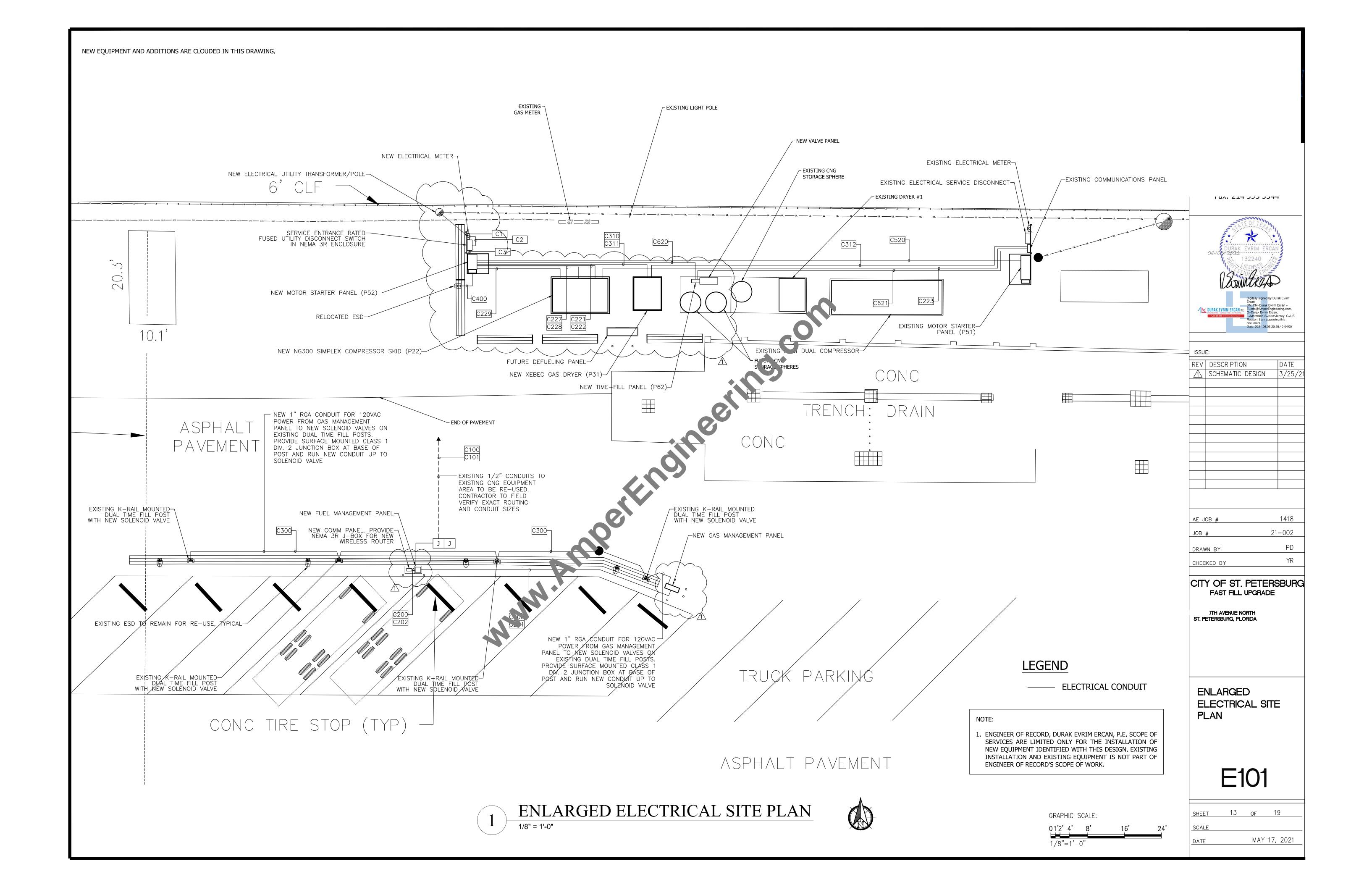
. ENGINEER OF RECORD, DURAK EVRIM ERCAN, P.E. SCOPE OF

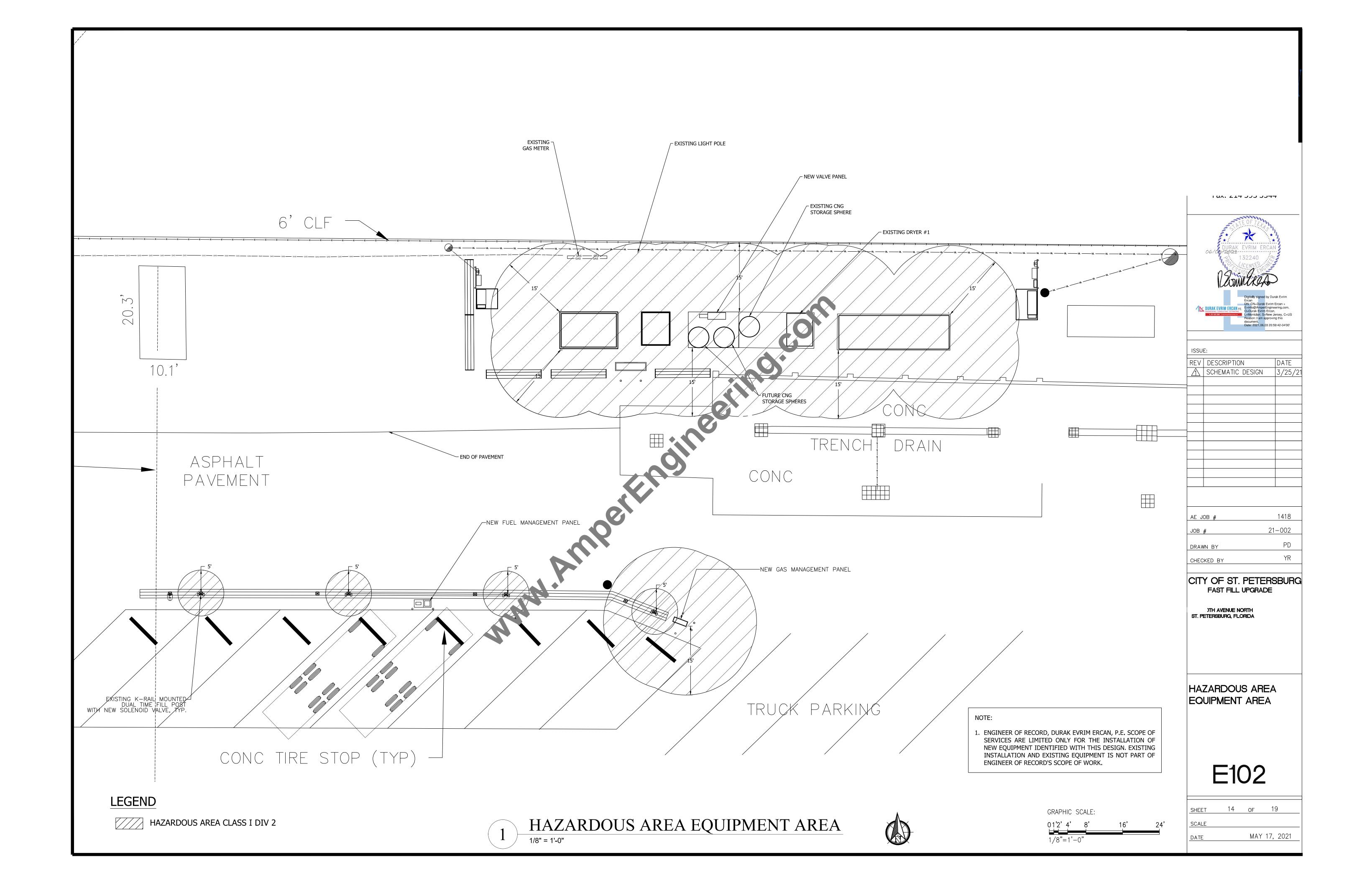
SERVICES ARE LIMITED ONLY FOR THE INSTALLATION OF

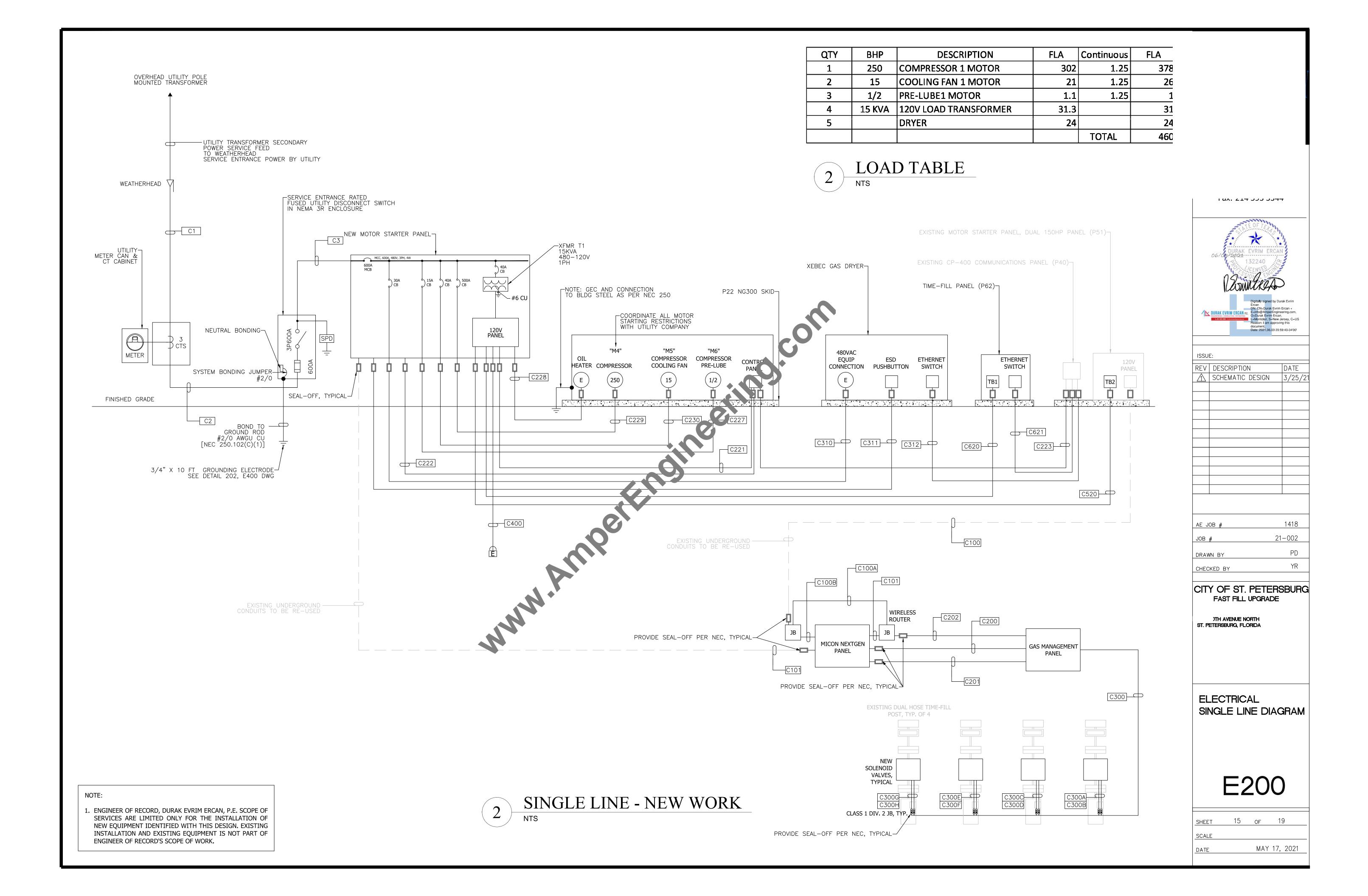
NEW EQUIPMENT IDENTIFIED WITH THIS DESIGN. EXISTING

INSTALLATION AND EXISTING EQUIPMENT IS NOT PART OF

ENGINEER OF RECORD'S SCOPE OF WORK.







State 1	DESIGNATOR	CONDUIT	CONDUCTOR	FROM	ТО	CONDUCTOR TYPE	DESCRIPTION
Col. 2 cm; or 3 x/2" 2 cm; or 3 x/2" 2 cm; or 3 x/4" 2 c	C1	2 SETS OF 3 1/2"	2 SETS OF (4)#350KCMIL, (1)#2/0 GND	WEATHERHEAD	UTILITY METER/CT CABINET	POWER	SERVICE ENTRANCE POWER
C221 11		2 SETS OF 3 1/2"	2 SETS OF (4)#350KCMIL, (1)#2/0 GND	UTILITY METER/CT CABINET	UTILITY SERVICE DISCONNECT	POWER	SERVICE ENTRANCE POWER
17	C3	2 SETS OF 3 1/2"	2 SETS OF (4)#350KCMIL, (1)#2/0 GND	UTILITY SERVICE DISCONNECT	MOTOR STARTER PANEL	POWER	SERVICE ENTRANCE POWER TO MCC
	C221	1"	2 #12, 14 #14, 1#12G	NEW MOTOR STARTER PANEL	NG300 SIMPLEX COMPRESSOR SKID CONTROL PANEL	POWER	120VAC/ESD/RUN SIGNALS
2238 11	C222	1"	6 #14	NEW MOTOR STARTER PANEL	NG300 SIMPLEX COMPRESSOR SKID CONTROL PANEL	SIGNAL	24VDC SIGNALS
	C227	1/2"	3 #12, 1 #12G	NEW MOTOR STARTER PANEL	NG300 SIMPLEX COMPRESSOR SKID JUNCTION BOX 22	POWER	480VAC PRE-LUBE MOTOR
	C228	1"	2 #12, 1 #12G	NEW MOTOR STARTER PANEL	NG300 SIMPLEX COMPRESSOR SKID JUNCTION BOX 22	POWER	120VAC OIL HEATER
1.00 1.00		3"	2 SETS OF (3)#250KCMIL , (1)#2 GND	NEW MOTOR STARTER PANEL	NG300 SIMPLEX COMPRESSOR SKID M4 250HP MOTOR	POWER	480VAC MAIN MOTOR
CO21 11		1"	5 #14, 1 #12G	NEW MOTOR STARTER PANEL	EXISTING MOTOR STARTER PANEL, DUAL 150HP	POWER	ESD STRING
C225 1" C ENET 22/CATS (S - ELDED CABLE) DISTING COMMUNION ONS PANE. NASIGO SIMPLEX COMPASSION SKID CONTROL PANE. 2 514, 13126 NM MOTOR STANDER PANE. 193 X 195 C GAS DIRECT 1" 2 514, 13126 NM MOTOR STANDER PANE. 193 X 195 C GAS DIRECT 1" 2 514, 13126 NM MOTOR STANDER PANE. 193 X 195 C GAS DIRECT 1" 2 512, 1 3126 NM MOTOR STANDER PANE. 193 X 195 C GAS DIRECT 1" 2 512, 1 3126 NM MOTOR STANDER PANE. 193 X 195 C GAS DIRECT 1" 2 512, 1 3126 NM MOTOR STANDER PANE. 193 X 195 C GAS DIRECT 1" 2 512, 1 3126 NM MOTOR STANDER PANE. 193 X 195 C GAS DIRECT 1" 2 512, 1 3126 NM MOTOR STANDER PANE. 193 X 195 C GAS DIRECT 1" 2 512, 1 3126 NM MOTOR STANDER PANE. 193 X 195 C GAS DIRECT 1" 2 512, 1 3126 NM MOTOR STANDER PANE. 193 X 195 C GAS DIRECT 1" 2 512, 1 3126 NM MOTOR STANDER PANE. 193 X 195 C GAS DIRECT 1" 2 512, 1 3126 NM MOTOR STANDER PANE. 193 X 195 C GAS DIRECT 1" 2 512, 1 3126 NM MOTOR STANDER PANE. 193 X 195 C GAS DIRECT 1" 2 512, 1 3126 NM MOTOR STANDER PANE. 193 X 195 C GAS DIRECT 1" 2 512, 1 3126 NM MOTOR STANDER PANE. 193 X 195 C GAS DIRECT 1" 2 512, 1 3126 NM MOTOR STANDER PANE. 193 X 195 C GAS DIRECT 1" 2 512, 1 3126 NM MOTOR STANDER PANE. 193 X 195 C GAS DIRECT 1" 2 512, 1 3126 NM MOTOR STANDER PANE. 193 X 195 C GAS DIRECT 1" 2 512, 1 3126 NM MOTOR STANDER PANE. 1" 2 512, 1 3126 NM MOTOR STANDER PANE. 1" 2 512, 1 3126 NM MOTOR STANDER PANE. 1" 2 512, 1 3126 NM MOTOR STANDER PANE. 1" 2 512, 1 3126 NM MOTOR STANDER PANE. 1" 2 512, 1 3126 NM MOTOR STANDER PANE. 1" 2 512, 1 3126 NM MOTOR STANDER PANE. 1" 2 512, 1 3126 NM MOTOR STANDER PANE. 1" 2 512, 1 3126 NM MOTOR STANDER PANE. 1" 1 1 1 1 1 1 1 1		1"	i i		` '		·
CSTG 1" 3 #14, 1#10G N.W. MOTOR STATER PANEL PST XERC CAS DRIVET POWER 480WAG POWER		1"	, , ,				
CSTT 1"		1"	ENET-22/CAT6 (SHIELDED CABLE)				
SAME 1" ENET 31/CATE (SHIELDED CABLE) FXISTING COMMUNICATIONS PART P31 XFBFC GAS ORYFR S.GAA S 24/00 SIGNALS	[C310]	1"	3 #10, 1#10G	NEW MOTOR STARTER PANEL	P31 XEBEC GAS DRYER	POWER	480VAC POWER
C103 1/2" 2	C311	1"	2 #14, 1#12G	NEW MOTOR STARTER PANEL	P31 XEBEC GAS DRYER	SIGNALS	ESD PUSHBUTTON
CTGGA 1/2"	C312	1"	ENET-31/CAT6 (SHIELDED CABLE)	EXISTING COMMUNICATIONS PANEL	P31 XEBEC GAS DRYER	SIGNALS	24VDC SIGNALS
CTOBB 1/2" 2 #12, 1 #12G	C100	1/2"	2 #12, 1 #12G	NEW MOTOR STARTER PANEL 120V PANEL	MICON NEXTGEN PANEL	POWER	120VAC MAIN POWER
C101 1/2" (1) RS-485 & (1) CATS CABLE NEW MOTOR STARTER PANEL 120V PANEL MICON NEXTGEN PANEL COMMUNICATIONS COMMUNICATIONS	C100A	1/2"	2 #12, 1 #12G	JUNCTION BOX 120V	WIRELESS ROUTER	POWER	120VAC MAIN POWER
C200	C100B	1/2"	2 #12, 1 #12G	JUNCTION BOX 120V	MICON NEXTGEN PANEL	POWER	120VAC MAIN POWER
1/2"	C101	1/2"	(1) RS-485 & (1) CAT5E CABLE	NEW MOTOR STARTER PANEL 120V PANEL	MICON NEXTGEN PANEL	COMMUNICATIONS	COMMUNICATIONS
C202 1/2" CABLE SHELD/ORAIN 1/2" (2) BELDEN 3483 PROVIDE WITH CABLE SHELD/ORAIN 1/2" (2) BELDEN 3483 PROVIDE WITH CABLE SHELD/ORAIN 1/2" CATE CABLING FUEL MANAGEMENT PANEL COMM P/ JEL COMM P/ JEL COMMUNICATIONS COM	C200	1"	VERIFY WIRE SIZES/QTY WITH SUPPLIER	MICON NEXTGEN PANEL	GAS MANAGEMENT PANEL	POWER	120VAC POWER
1/2" CABLESHIELD/DRAIN MICON NEXTGEN PANEL GAS MANAGEMENT PANEL COMMUNICATIONS COMMUNICATIONS [220] 1/2" CAT6 CABLING FUEL MANAGEMENT PANEL COMM PAJEL COMMUNICATIONS COMMUNICATIONS [3300] 1" VERIFY WIRE SIZES/OTY WITH SUPPLIER GAS MANAGEMENT PANEL FILL POST #1 SOLENOID VALVE #1 POWER 120VAC POWER [3300B] 1" VERIFY WIRE SIZES/OTY WITH SUPPLIER GAS MANAGEMENT PANEL FILL POST #1 SOLENOID VALVE #2 POWER 120VAC POWER [3300B] 1" VERIFY WIRE SIZES/OTY WITH SUPPLIER GAS MANAGEMENT PANEL FILL POST #2 SOLENOID VALVE #3 POWER 120VAC POWER [3300B] 1" VERIFY WIRE SIZES/OTY WITH SUPPLIER GAS MANAGEMENT PANEL FILL POST #2 SOLENOID VALVE #4 POWER 120VAC POWER [3300B] 1" VERIFY WIRE SIZES/OTY WITH SUPPLIER GAS MANAGEMENT PANEL FILL POST #2 SOLENOID VALVE #4 POWER 120VAC POWER [3300B] 1" VERIFY WIRE SIZES/OTY WITH SUPPLIER GAS MANAGEMENT PANEL FILL POST #3 SOLENOID VALVE #4 POWER 120VAC POWER [3300B] 1" VERIFY WIRE SIZES/OTY WITH SUPPLIER GAS MANAGEMENT PANEL FILL POST #3 SOLENOID VALVE #6 POWER 120VAC POWER [3300B] 1" VERIFY WIRE SIZES/OTY WITH SUPPLIER GAS MANAGEMENT PANEL FILL POST #3 SOLENOID VALVE #6 POWER 120VAC POWER [3300B] 1" VERIFY WIRE SIZES/OTY WITH SUPPLIER GAS MANAGEMENT PANEL FILL POST #4 SOLENOID VALVE #6 POWER 120VAC POWER [3300B] 1" VERIFY WIRE SIZES/OTY WITH SUPPLIER GAS MANAGEMENT PANEL FILL POST #4 SOLENOID VALVE #7 POWER 120VAC POWER [3300B] 1" VERIFY WIRE SIZES/OTY WITH SUPPLIER GAS MANAGEMENT PANEL FILL POST #4 SOLENOID VALVE #7 POWER 120VAC POWER	[0201]	1/2"		MICON NEXTGEN PANEL	GAS MANAGEMENT PA JEL	COMMUNICATIONS	COMMUNICATIONS
C300A 1" VERIFY WIRE SIZES/OTY WITH SUPPLIER GAS MANAGEMENT PANEL FILL POST #1 SOLENOID VALVE #1 POWER 120VAC POWER C300B 1" VERIFY WIRE SIZES/OTY WITH SUPPLIER GAS MANAGEMENT PANEL FILL POST #1 SOLENOID VALVE #2 POWER 120VAC POWER C300C 1" VERIFY WIRE SIZES/OTY WITH SUPPLIER GAS MANAGEMENT PANEL FILL POST #2 SOLENOID VALVE #3 POWER 120VAC POWER C300D 1" VERIFY WIRE SIZES/OTY WITH SUPPLIER GAS MANAGEMENT PANEL FILL POST #2 SOLENOID VALVE #4 POWER 120VAC POWER C300E 1" VERIFY WIRE SIZES/OTY WITH SUPPLIER GAS MANAGEMENT PANEL FILL POST #3 SOLENOID VALVE #4 POWER 120VAC POWER C300E 1" VERIFY WIRE SIZES/OTY WITH SUPPLIER GAS MANAGEMENT PANEL FILL POST #3 SOLENOID VALVE #5 POWER 120VAC POWER C300F 1" VERIFY WIRE SIZES/OTY WITH SUPPLIER GAS MANAGEMENT PANEL FILL POST #3 SOLENOID VALVE #6 POWER 120VAC POWER C300G 1" VERIFY WIRE SIZES/OTY WITH SUPPLIER GAS MANAGEMENT PANEL FILL POST #4 SOLENOID VALVE #7 POWER 120VAC POWER C300H 1" VERIFY WIRE SIZES/OTY WITH SUPPLIER GAS MANAGEMENT PANEL FILL POST #4 SOLENOID VALVE #7 POWER 120VAC POWER C300H 1" VERIFY WIRE SIZES/OTY WITH SUPPLIER GAS MANAGEMENT VEL FILL POST #4 SOLENOID VALVE #8 POWER 120VAC POWER	[0201]	1/2"		MICON NEXTGEN PANEL	GAS MANAGEMEN PA IEL	COMMUNICATIONS	COMMUNICATIONS
C300A 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300B 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300C 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300C 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300D 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300C 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300C 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300C 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300C 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300C 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300C 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300C 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300C 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300C 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300C 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300C 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300C 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300C 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300C 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300C 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300C 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300C 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300C 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300C 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300C 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300C 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300C 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300C 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300C 1" PANEL C300C 1" POWER C300C 1" P	C202	1/2"	CAT6 CABLING	FUEL MANAGEMENT PANEL	COMM P/ IEL	COMMUNICATIONS	COMMUNICATIONS
C300B 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300C 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300C 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300D 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300E 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300F 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300F 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300F 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300F 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL C300F 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT NEL C300F 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT NEL C300F 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT NEL C300F 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT NEL C300F 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT NEL C300F 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT NEL C300F 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT NEL C300F 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT NEL C300F 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT NEL C300F 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT NEL C300F 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT NEL C300F 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT NEL C300F 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT NEL C300F 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT NEL C300F 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT NEL C300F 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT NEL C300F 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT NEL C300F 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT NEL C300F 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT NEL C300F 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT NEL C300F 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT NEL C300F 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT NEL C300F 1" VERI	C300	1"	VERIFY WIRE SIZES/QTY WITH SUPPLIER	GAS MANAGEMENT PANEL	FILL POLT	POWER	120VAC POWER
C300C 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL FILL POST #2 SOLENOID VALVE #3 POWER 120VAC POWER C300D 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL FILL POST #2 SOLENOID VALVE #4 POWER 120VAC POWER C300E 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL FILL POST #3 SOLENOID VALVE #5 POWER 120VAC POWER C300F 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL FILL POST #3 SOLENOID VALVE #6 POWER 120VAC POWER C300G 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT NEL FILL POST #4 SOLENOID VALVE #7 POWER 120VAC POWER C300H 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT NEL FILL POST #4 SOLENOID VALVE #8 POWER 120VAC POWER	C300A	1"	VERIFY WIRE SIZES/QTY WITH SUPPLIER	GAS MANAGEMENT PANEL	FIL PLST #1 SOLENOID VALVE #1	POWER	120VAC POWER
C300D 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL FILL POST #2 SOLENOID VALVE #4 POWER 120VAC POWER C300E 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL FILL POST #3 SOLENOID VALVE #5 POWER 120VAC POWER C300F 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL FILL POST #3 SOLENOID VALVE #6 POWER 120VAC POWER C300G 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT ONEL FILL POST #4 SOLENOID VALVE #7 POWER 120VAC POWER C300H 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT ONEL FILL POST #4 SOLENOID VALVE #8 POWER 120VAC POWER	C300B	1"	VERIFY WIRE SIZES/QTY WITH SUPPLIER	GAS MANAGEMENT PANEL	NUL POST #1 SOLENOID VALVE #2	POWER	120VAC POWER
C300E 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL FILL POST #3 SOLENOID VALVE #5 POWER 120VAC POWER C300F 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANEL FILL POST #3 SOLENOID VALVE #6 POWER 120VAC POWER C300G 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT ONEL FILL POST #4 SOLENOID VALVE #7 POWER 120VAC POWER C300H 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT ONEL FILL POST #4 SOLENOID VALVE #8 POWER 120VAC POWER	C300C	1"	VERIFY WIRE SIZES/QTY WITH SUPPLIER	GAS MANAGEMENT PANEL	FILL POST #2 SOLENOID VALVE #3	POWER	120VAC POWER
C300F 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT PANE. FILL POST #3 SOLENOID VALVE #6 POWER 120VAC POWER C300G 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT ONE. FILL POST #4 SOLENOID VALVE #7 POWER 120VAC POWER C300H 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT ONE. FILL POST #4 SOLENOID VALVE #8 POWER 120VAC POWER	C300D	1"	VERIFY WIRE SIZES/QTY WITH SUPPLIER	GAS MANAGEMENT PANEL	FILL POST #2 SOLENOID VALVE #4	POWER	120VAC POWER
C300G 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT NEL FILL POST #4 SOLENOID VALVE #7 POWER 120VAC POWER C300H 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT NEL FILL POST #4 SOLENOID VALVE #8 POWER 120VAC POWER	C300E	1"	VERIFY WIRE SIZES/QTY WITH SUPPLIER	GAS MANAGEMENT PANEL	FILL POST #3 SOLENOID VALVE #5	POWER	120VAC POWER
C300H 1" VERIFY WIRE SIZES/QTY WITH SUPPLIER GAS MANAGEMENT WEL FILL POST #4 SOLENOID VALVE #8 POWER 120VAC POWER	C300F	1"	VERIFY WIRE SIZES/QTY WITH SUPPLIER	GAS MANAGEMENT PANT	FILL POST #3 SOLENOID VALVE #6	POWER	120VAC POWER
	C300G	1"	VERIFY WIRE SIZES/QTY WITH SUPPLIER	GAS MANAGEMENT (NEL	FILL POST #4 SOLENOID VALVE #7	POWER	120VAC POWER
C400 1/2" 2 #12, 1 #12G NEW MOTOR TALLER PANEL RELOCATED ESD POWER 120VAC ESD POWER	С300Н	1"	VERIFY WIRE SIZES/QTY WITH SUPPLIER	GAS MANACIMENT INEL	FILL POST #4 SOLENOID VALVE #8	POWER	120VAC POWER
	C400	1/2"	2 #12, 1 #12G	NEW MOTER TATLER PANEL	RELOCATED ESD	POWER	120VAC ESD POWER
C230 3/4" 3 #8, 1 #10G NEW TOL STARTER PANEL NG300 SIMPLEX COMPRESSOR SKID JUNCTION BOX 22 POWER 480VAC FAN MOTOR	C230	3/4"	3 #8, 1 #10G	NEW TOI STARTER PANEL	NG300 SIMPLEX COMPRESSOR SKID JUNCTION BOX 22	POWER	480VAC FAN MOTOR

CONDUIT AND CABLE SCHEDULE

NTS

NOTE:

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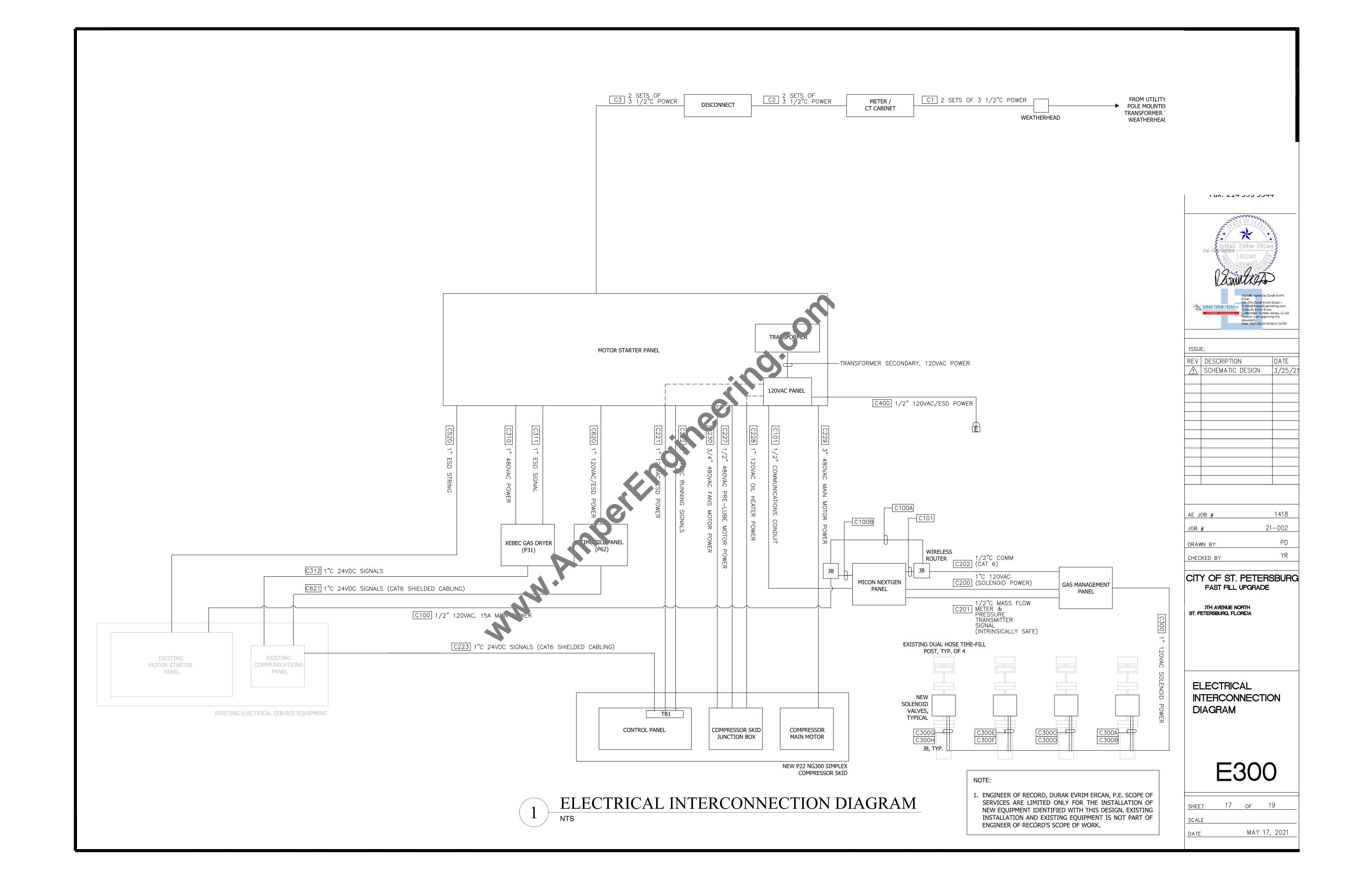
CITY OF ST. PETERSBURG FAST FILL UPGRADE

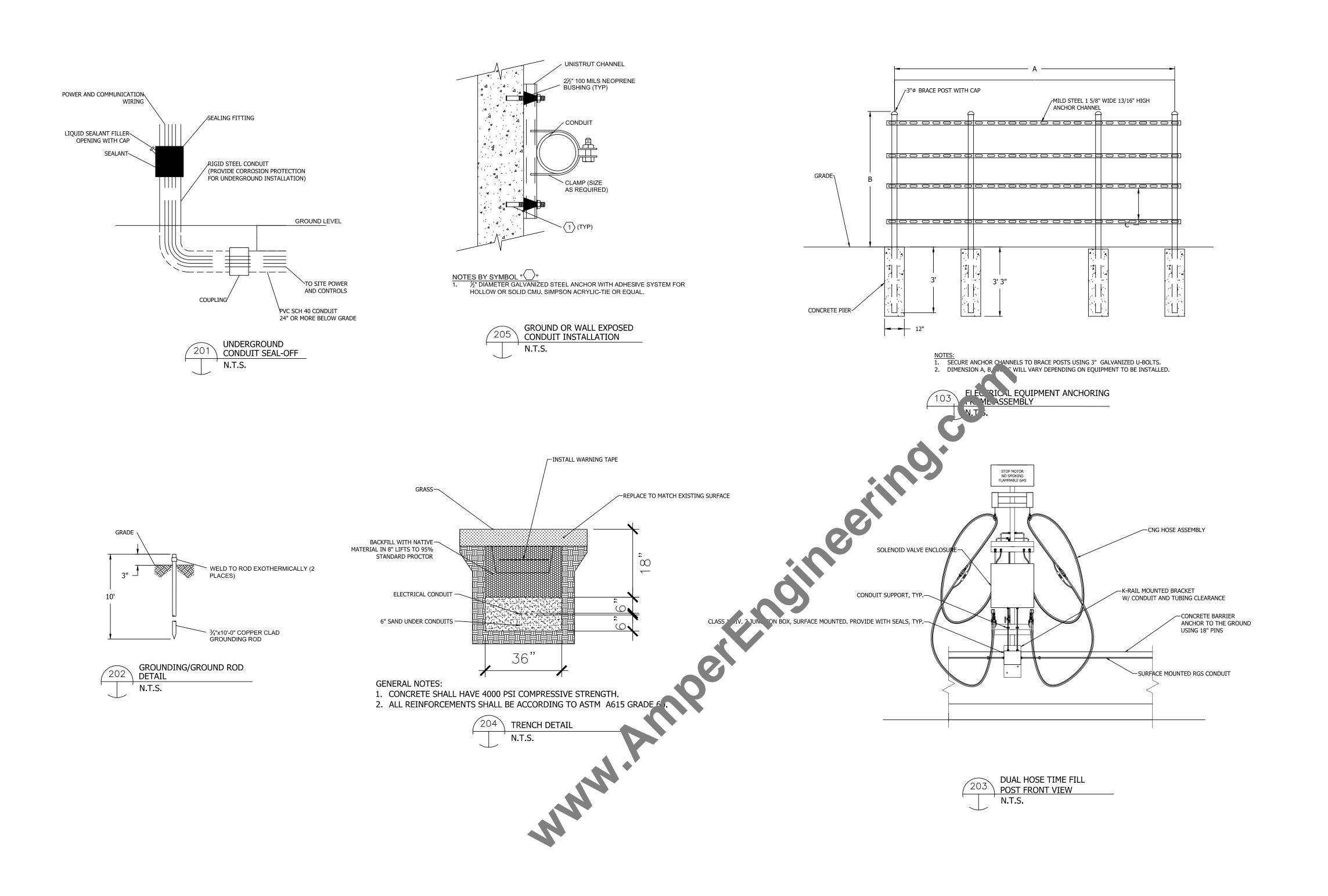
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ELECTRICAL CONDUIT AND WIRE SCHEDULE

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DATE		MAY	17, 2021	





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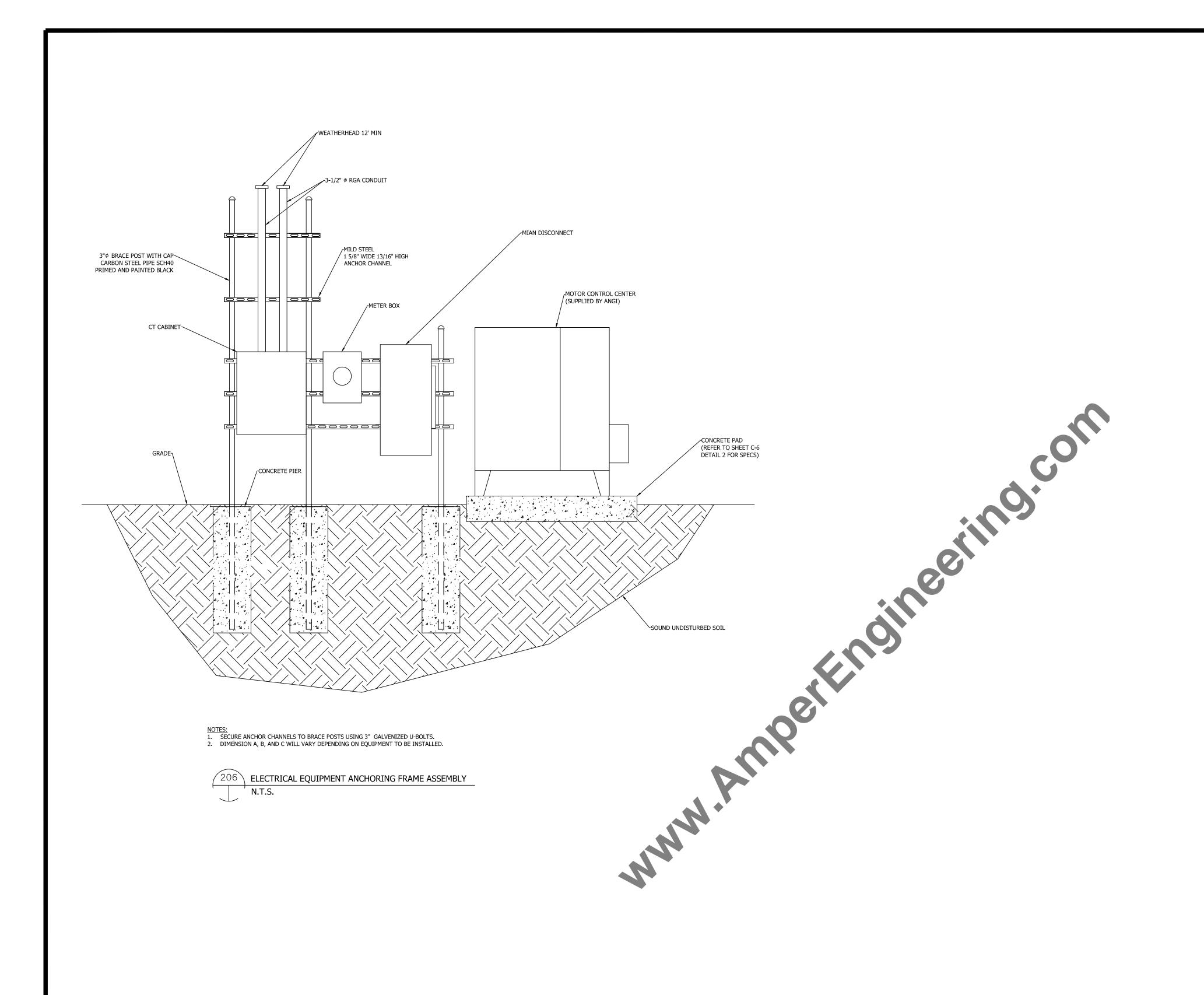
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CITY OF ST. PETERSBURG FAST FILL UPGRADE

)TH AVENUE NORTH ST. PETERSBURG, FLORIDA

ELECTRICAL DETAILS - 2

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SHEET	19	OF	19	_
SCALE				
DATE		MAY	17, 2021	

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