## COMMUNITY WASTE DISPOSAL CNG STATION EQUIPMENT EXPANSION SING DALLAS TX 75220 11/19/2020

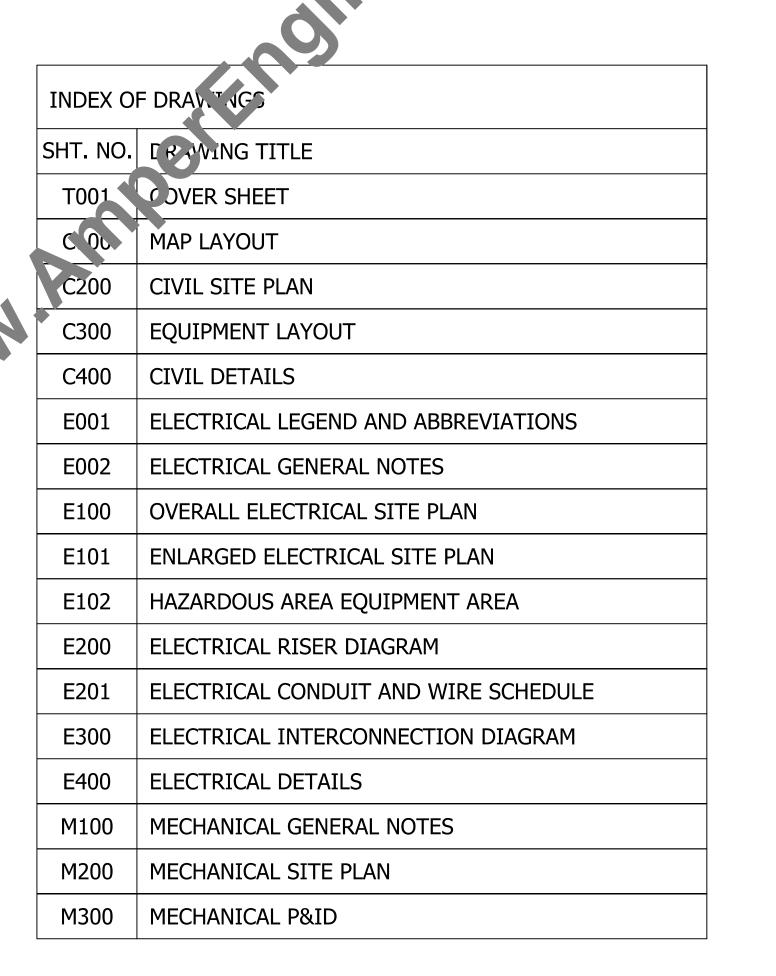
LOCATION MAP PROJECT LOCATION Bird's Fort Trail Park Walnut Hill Ln. MoneyGram Soccer Park at Elm-Fork California Cros Lombardy En

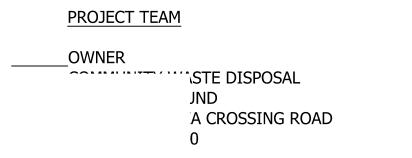
#### PROJECT DESCRIPTION

THIS PROJECT IS INTENDED TO ADD TWO CNG COMPRESSORS AND A NEW GAS DRYER TO THE EXISTING CNG STATION IN THE FACILITY OWNED BY COMMUNITY WASTE DISPOSAL, LOCATED AT: 2010 CALIFORNIA CROSSING, DALLAS TX 75220 WORK INCLUDES ASSOCIATED CONCRETE PADS, CONCRETE SEPARATION WALL, INTERCONNECTING PIPING AND ELECTRICAL, AND SAFETY

### **GENERAL NOTES**

- 1. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTORS SHALL BE RESPONSIBLE TO VERIFY THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION OF ANY ITEM SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED ALL PLANS AND ANY OTHER DOCUMENTATION FROM ALL OF THE PERMITTING AND ANY OTHER REGULATORY AUTHORITIES. FAILURE OF THE CONTRACTOR TO FOLLOW THE PROCEDURE SHALL CAUSE THE CONTRACTOR TO ASSUME FULL RESPONSIBILITY FOR ANY SUBSEQUENT MODIFICATION OF THE WORK MANDATED BY ANY REGULATORY AUTHORITY.
- 2. CONTRACTOR TO PROVIDE ELECTRICAL POWER AND GAS SERVICE LINES SHOWN AND IN ACCORDANCE WITH REQUIREMENTS OF THE 2020 NATIONAL ELECTRICAL CODE (NEC 2020) AND LOCAL GOVERNING CODES.
- 3. ALL WORK SHALL COMPLY WITH APPLICABLE STATE AND LOCAL CODES AND ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE.
- 4. ALL WORK SHALL BE PERFORMED IN A PROFESSIONAL FINISHED AND WORKMAN LIKE MANNER TO THE ENTIRE SATISFACTION OF THE OWNER AND ENGINEER AND IN ACCORDANCE WITH THE BEST RECOGNIZED TRADE PRACTICES.
- 5. CONTRACTOR SHALL BE REQUIRED TO HAVE STUDIED THE DOCUMENTS INCLUDING THE DRAWINGS AND PROJECT MANUALS, TO HAVE VISITED THE SITE, AND TO HAVE SATISFIED TO HAVE SATISFIED THE SITE, AND TO HAVE SATISFIED TO HAVE SATISFIED THE SITE, AND TO HAVE SATISFIED TO HAVE SATISFIED THE SITE, AND TO HAVE SATISFIED THE SITE OF THE SITE O HIMSELF REGARDING ALL EXISTING CONDITIONS AND NEW WORK UNDER WHICH HE WILL BE OBLIGATED TO PERFORM.
- 6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF THE WORK PRIOR TO THE START OF THE SITE WORK. ALL DAMAGES MADE TO THE EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 7. CONTRACTOR SHALL COORDINATE ALL DELIVERIES AND ACCESSIBILITY FOR ALL ITEMS DURING WORKING HOURS.
- 8. CONTRACTOR SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT FIXTURES, AND SERVICE NECESSARY FOR THE PROPER EXECUTION OF THE WORK.
- 9. ALL MATERIALS AND EQUIPMENT INCORPORATED IN THE WORK SHALL BE NEW AND ALL WORK SHALL BE OF GOOD QUALITY, FREE FROM FAULTS AND IN CONFORMANCE TO ALL REQUIREMENTS.
- 10. CONTRACTOR SHALL KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY HIS OPERATIONS. AT THE COMPLETION OF THE WORK THE CONTRACTOR SHALL PERFORM A FINAL CLEAN-UP, CLEAN ALL SURFACES AND LEAVE THE PROJECT AREA CLEAN.
- 11. CONTRACTOR SHALL PROVIDE PORTABLE TOILET FACILITIES. QUANTITY OF PORTABLE TOILET FACILITIES SHALL BE BASED ON TOTAL NUMBER OF WORKERS.
- 12. CONTRACTOR SHALL GUARANTEE FOR ONE (1) YEAR THAT ALL OF THE WORK UNDER THE CONTRACT IS FREE FROM FAULTY MATERIALS AND FREE FROM IMPROPER WORKMANSHIP.
- 13. CONTRACTOR SHALL SUPERVISE THE WORK AND COORDINATE ALL PORTIONS THEREOF.
- 14. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF EXISTING AND NEW WORK. ANY WORK DAMAGED FOR ANY REASON SHALL BE REPLACED AT NO COST TO THE OWNER.
- 15. CONTRACTOR SHALL NOT SCALE DRAWINGS LARGER SCALE DRAWINGS AND DETAILS SHALL TAKE PRECEDENCE OVER SMALLER REFERENCED DRAWINGS AND DETAILS.
- 16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVES AND PARKING AREAS DURING CONSTRUCTION.





ROUISSI VING TX 75061

**ENGINEER OF RECORD:** DURAK EVRIM ERCAN, P.E. Evrim@amperengineering.com 201-920-2899

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COMMUNITY WASTE DISPOSAL **CNG STATION EQUIPMENT** 

DALLAS, TX 75220 PHONE: 214 291 4460

**EXPANSION** 

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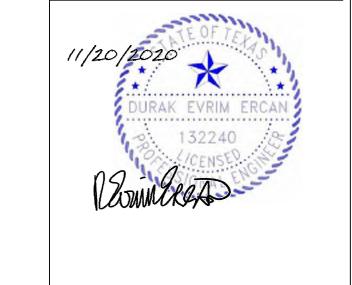
**COVER SHEET** 

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	ABBREVIATIONS
AFF	ABOVE FINISHED FLOOR OR GRADE
AIC AL OR ALUM	AMPERES INTERRUPTING CAPACITY ALUMINUM
AMP OR A	AMPERE
AWG	AMERICAN WIRE GAUGE
C.	CONDUIT
CPT	CONTROL POWER TRANSFORMER
CR	CONTROL RELAY
CT	CURRENT TRANSFORMER  COPPER
ELEV	ELEVATION
EM	EMERGENCY
ESD EXIST.	EMERGENCY SHUTDOWN BUTTON  EXISTING
FO	FIBER OPTIC
FT	FEET
G. OR GRD GA.	GROUND GAUGE
GFI	GROUND FAULT INTERRUPTER
GFS	GROUND FAULT SENSING
HP HTR	HORSEPOWER HEATER
HZ	HERTZ
ID	INTERNAL DIAMETER
JB	INTERPOSING RELAY PANEL  JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATT
LC LED	LIGHTING CONTACTOR  LIGH EMITTING DIODE
LGTS ON LTG	LIGHTS/LIGHTING
МСВ	MAIN CIRCUIT BREAKER
MCC MCP	MOTOR CONTROL CENTER  MOTOR CIRCUIT PROTECTOR
1.17.1	INDION CINCUIT INDIECTOR
MFR'S	MANUFACTURER'S
MFR'S MDP	MANUFACTURER'S MAIN DISTRIBUTION PANEL
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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	
——OHE——	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	
<b>+</b>	QUADPLEX RECEPTACLE	
J J	JUNCTION BOX	
РВ	PULL BOX	
OS	OCCUPANCY SENSOR	
PC	PHOTOCELL	
МН	MANHOLE	
M	UTILITY METER	
E	EMERGENCY SUTDOWN	
<u> </u>	GROUND	

ONE-LINE OR CONTROL	PLAN	DESCRIPTION
Т		PANEL
5		MOTOR, NUMBER DESIGNATES HON FROMER
°) A °) P	CB	LOW VOLTAGE CIRCUIT DE TAKER, 3 POLE UNLESS OTHERWISE NOTED 4 AMP TRIP, P - POLES
°) MCP		MOTOR CIT SET PROTECTOR
***	Τ	TRACS PRIMER, RATINGS, AND CONNECTIONS AS NOTED
— <del></del>	-	CONDUCTORS OR CONDUITS CROSSING PATHS BUT NOT CONNECTED
	_	CONDUCTORS ELECTRICALLY CONNECTED
	-	INDICATES LIMITS OF EQUIPMENT OR WIRING ENCLOSURE



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COMMUNITY WASTE DISPOSAL CNG STATION EQUIPMENT EXPANSION

DALLAS, TX 75220 PHONE: 214 291 4460

ELECTRICAL LEGEND, AND ABBREVIATIONS

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 SCALE
 DATE
 NOVEMBER 11, 2020

- 1. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE 2020 NATIONAL ELECTRICAL CODE AND WITH LOCAL ELECTRICAL ORDINANCES.
- THE ENTIRE INSTALLATION MUST COMPLY WITH THE 2020 NATIONAL ELECTRICAL CODE, INCLUDING BUT NOT LIMITED TO ARTICLE 514.
- 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.
- ALL CONDUCTORS SHALL BE 600V COPPER AND SHALL BE INSULATED WITH TYPE XHHW/XHWN INSULATION.
- USE THE FOLLOWING COLOR CODE FOR 120/240V, 1-PHASE WIRING:

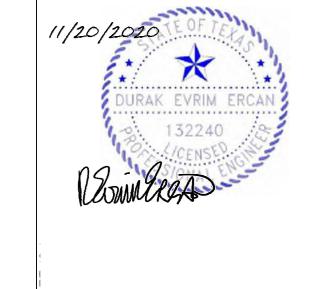
PHASE A - BLACK PHASE B - RED **NEUTRAL - WHITE** EQUIPMENT GROUNDING CONDUCTOR - GREEN

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.
- 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. CONTRACTOR SHALL COMPLY WITH NEC 514.8 EXCEPTION NO. 2 FOR ALL UNDERGROUND WIRING.
- 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. CONTRACTOR SHALL COMPLY WITH NEC 514.8 EXCEPTION NO. 2 FOR ALL UNDERGROUND WIRING.
- 12. PROVIDE CONDUIT SEALS AND EXPLOSION PROOF FITTINGS AS REQUIRED PER THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND THE NATIONAL ELECTRICAL CODE (NEC)
- 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.
- 15. PROVIDE A GROUNDING SYSTEM THAT INCLUDES ALL CONNECTIONS AND THE TESTING OF GROUND RODS, GROUND CABLES, GROUND BUSES, CONDUITS, FITTINGS, ANCHOR SUPPORTS, THERMITE PROCESS MATERIALS AND EQUIPMENT AND OTHER MATERIALS REQUIRED FOR A COMPLETE INSTALLATION. GROUNDING SYSTEM SHALL BE INSTALLED AND SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. MEASURE THE GROUND GRID RESISTANCE WITH THE EARTH TEST MEGGER AND INSTALL ADDITIONAL GROUND RODS AND CONDUCTORS AS REQUIRED UNTIL THE RESISTANCE TO THE GROUND CONFORMS TO NATIONAL ELECTRICAL CODE REQUIREMENTS. GROUND RESISTANCE MEASUREMENT SHALL NOT EXCEED 2 OHMS, ADD GROUND RODS AS REQUIRED TO BRING RESISTANCE TO 2 OHMS AND CONNECT TO GROUNDING SYSTEM,
- 16. THESE PLANS ARE SCHEMATIC, VERIFY EQUIPMENT SIZES, LOCATION AND CONDUIT ROUTING, ETC. PRIOR TO BID. CONTRACTOR SHALL VERIFY NUMBER/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 OPERATIONS OF THE ELECTRICAL SYSTEM.
- 18. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES AND PERMITS AS NECESSARY TO COMPLETE THIS JOB. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND FINE PROVIDE ALL LABOR AND FINE PROVIDE AND FINE PROVIDE ALL LABOR AND 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.



REV	DESCRIPTION	DATE

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JOB #

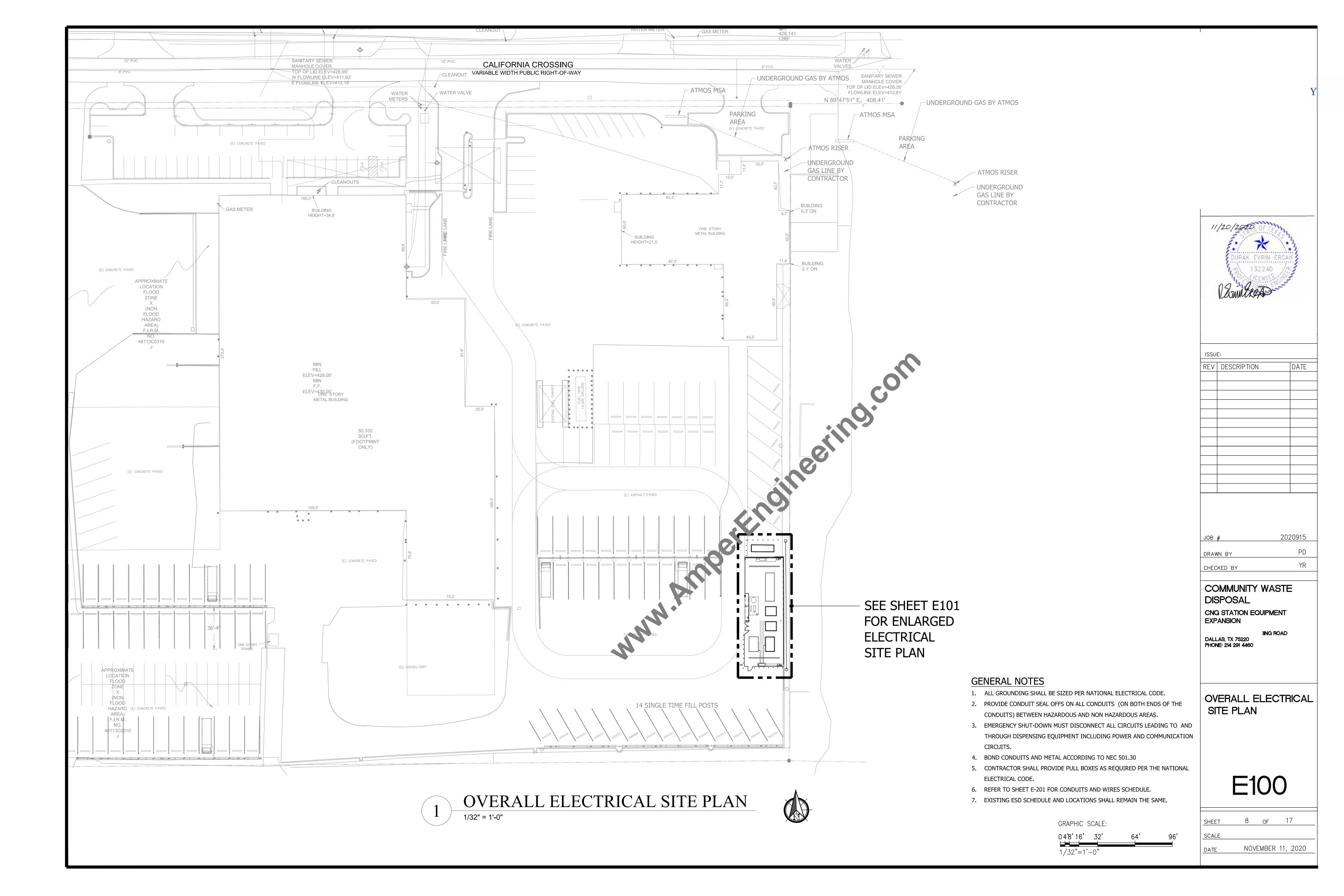
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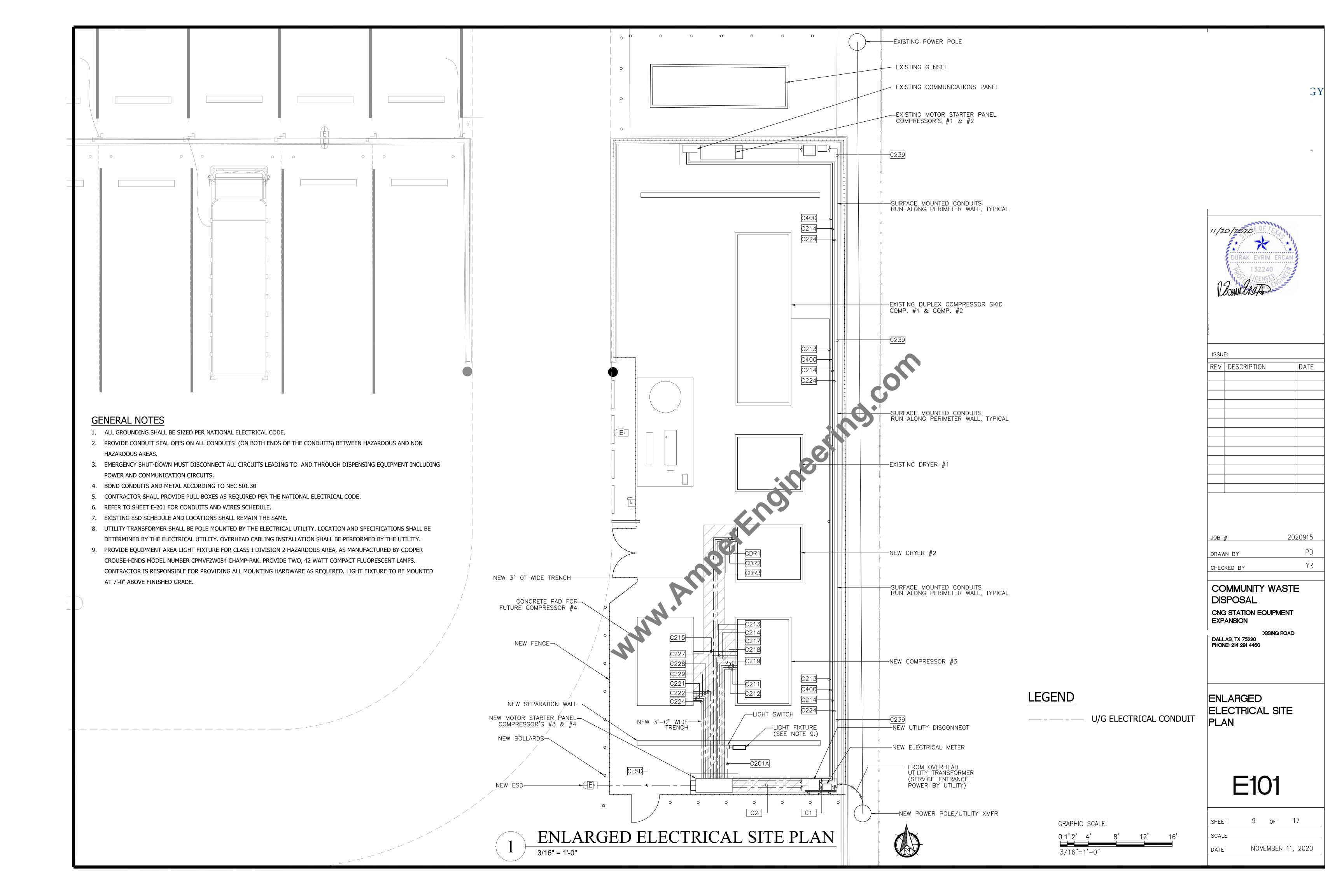
DISPOSAL **CNG STATION EQUIPMENT EXPANSION** 

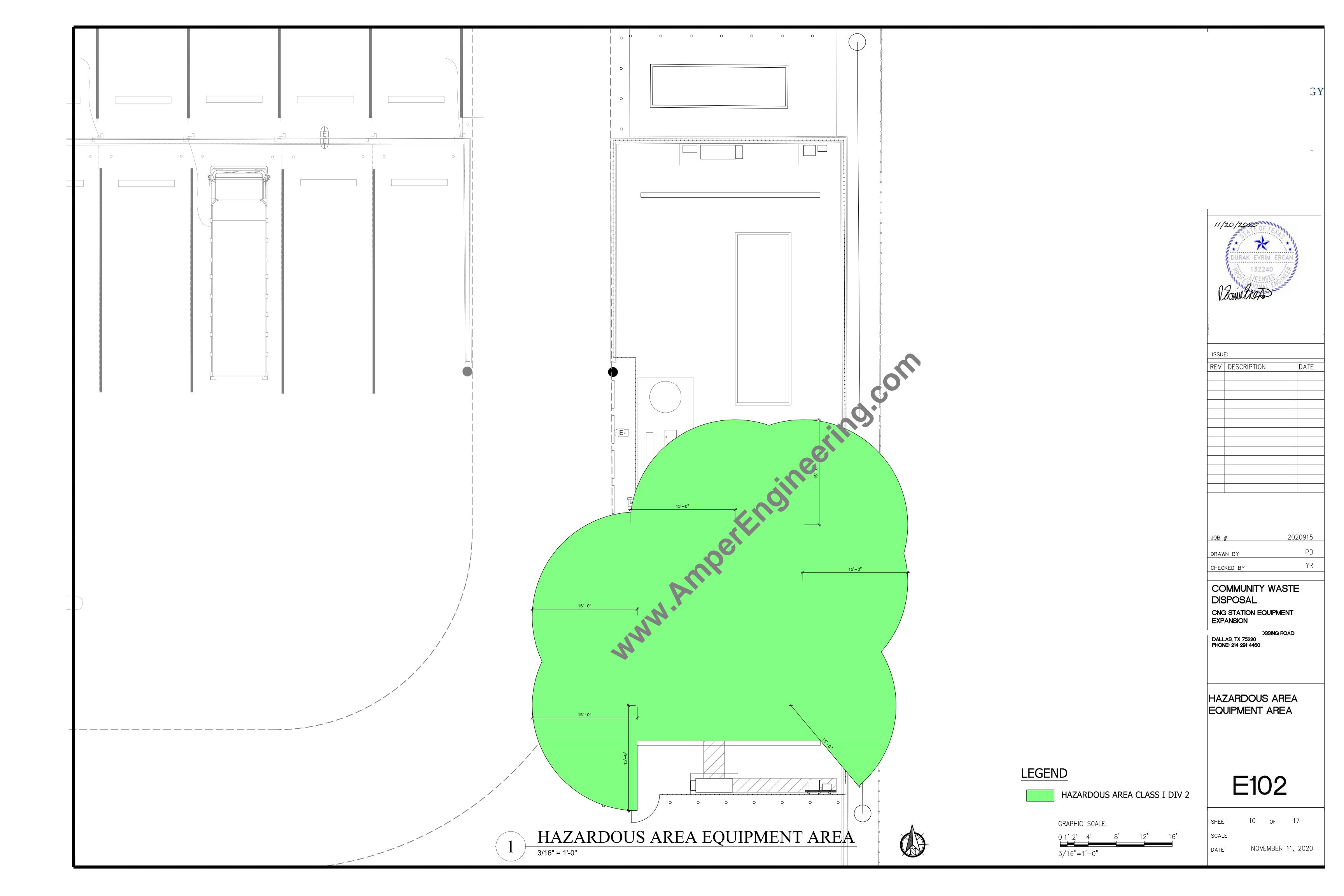
DALLAS, TX 75220 PHONE: 214 291 4460

**ELECTRICAL** GENERAL NOTES

SHEET 7 OF 17 SCALE NOVEMBER 11, 2020







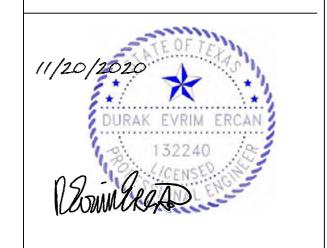
QTY	ВНР	Description	FLA		FLA
1	250	COMPRESSOR 3 MOTOR	302	1.25	377.5
1	10	COOLING FAN 3 MOTOR	14		14
1	0.5	PRE-LUBE 3 MOTOR	1.1		1.1
1	250	Compressor 4 motor (FUTURE)	302		302
1	10	COOLING FAN 4 MOTOR (FUTURE)	14		14
1	0.5	PRE-LUBE 4 MOTOR (FUTURE)	1.1		1.1
1	15 KVA	Compressors 120V load Transformer	31.3		31.3
1		DRYER	23		23
				Total	764

#### **GENERAL NOTES**

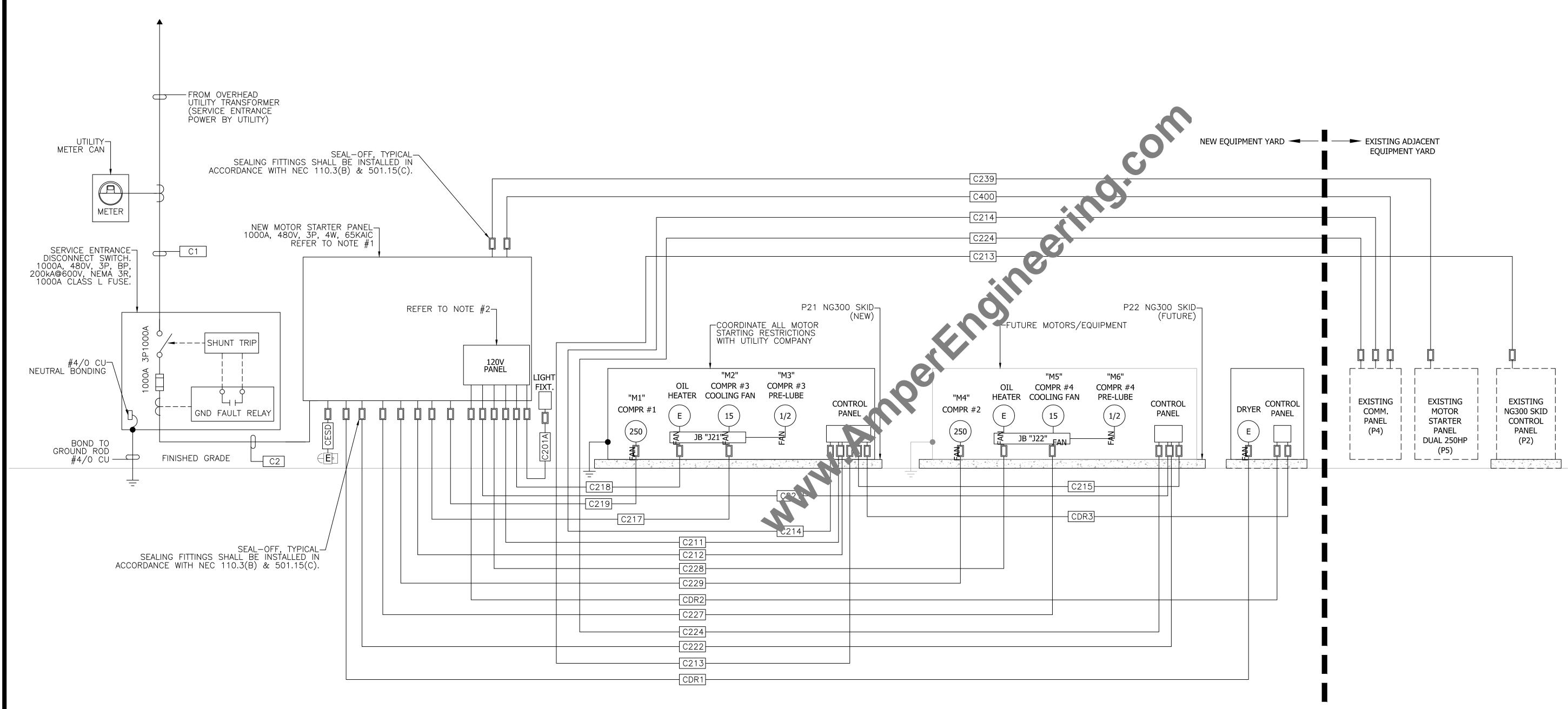
- 1. FOR NEW MOTOR STARTER PANEL PROTECTIVE DEVICES, CONNECTIONS, CONTROLS OF THE MOTORS AND EQUIPMENT, REFER TO ANGI ENERGY SYSTEMS DRAWINGS TITLED: DALLAS CWD EXPANSION SUBMITTAL #1 DATED 08/25/2020.
- 2. THE 120V PANEL IS INSTALLED WITHIN THE MOTOR STARTER PANEL AND IS FED FROM AN INTERNAL 15KVA, 1PH XFMR.

2 LOAD TABLE

NTS



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	DESCRIPTION		DATE
JOB ;	#	202	20915
	# /N BY	202	20915 PD
DRAW	/N BY	202	
DRAW		202	PD
DRAW	/N BY KED BY		PD YR
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CHEC CC DIS	KED BY	VASTE	PD YR
CHEC CC DIS	KED BY  MMUNITY V  SPOSAL  STATION EQUANSION	VASTE	PD YR

RISER DIAGRAM - NEW WORK

1 NTS

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ELECTRICAL

RISER DIAGRAM

SHEET	11	OF	1	7
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ESIGNATUR	CONDOTT	CONDUCTOR	F K O IVI	10	CONDUCTOR TIPE	DESCRIPTION
C1	3 SETS OF 4" PVC W/ RGS RISERS	3 SETS OF (4-400 KCMIL)	METER	UTILITY SERVICE DISCONNECT	POWER	SERVICE ENTRANCE POWER
C2	3 SETS OF 4" PVC W/ RGS RISERS	3 SETS OF (4-400 KCMIL, 1#2/0G)	UTILITY SERVICE DISCONNECT	MCC	POWER	SERVICE ENTRANCE POWER TO MCC
		2#14	NEW MOTOR STARTER PANEL P51	EXISTING MOTOR STARTER PANEL P5	CONTROLS	ESD PUSHBUTTON
C239	1" RGS	2#14	NEW MOTOR STARTER PANEL P51	EXISTING MOTOR STARTER PANEL P5	CONTROLS	ESD RESET
		2#14, 1#12G	NEW MOTOR STARTER PANEL P51	EXISTING MOTOR STARTER PANEL P5	POWER	ESD 120VAC POWER
C400	1" RGS	_	NEW MOTOR STARTER PANEL P51	EXISTING COMMUNICATIONS PANEL P4	COMMUNICATIONS	CONDUIT FOR COMMUNICATIONS
C219	4" PVC W/ RGS RISERS	2 SETS OF (3-250 KCMIL, 1#2G)	NEW MOTOR STARTER PANEL P51	COMPRESSOR 1 MOTOR AT P21 NG300 SIMPLEX SKID	POWER	250HP MOTOR M1
C218	1" PVC W/ RGS RISERS	2#12, 1#12G	NEW MOTOR STARTER PANEL P51	JUNCTION BOX 21 AT P21 NG300 SIMPLEX SKID	POWER	120VAC OIL HEATER
1" DV0 W / D00 D05D0	1" DVC W/ DCC DICEDC	3#12, 1#12G	NEW MOTOR STARTER PANEL P51	JUNCTION BOX 21 AT P21 NG300 SIMPLEX SKID	POWER	480VAC PRE-LUBE MOTOR
C217	1" PVC W/ RGS RISERS	3#12	NEW MOTOR STARTER PANEL P51	JUNCTION BOX 21 AT P21 NG300 SIMPLEX SKID	POWER	480VAC COOLING FAN MOTOR
		2#14	NEW MOTOR STARTER PANEL P51	CONTROL PANEL AT P21 NG300 SIMPLEX SKID	24VDC CONTROLS	24VDC MAIN MOTOR RUNNING SIGNALS
C212 1" PVC W/ RGS RISERS	1" PVC W/ RGS RISERS	2#14	NEW MOTOR STARTER PANEL P51	CONTROL PANEL AT P21 NG300 SIMPLEX SKID	24VDC CONTROLS	24VDC PRE-LUBE MOTOR RUNNING SIGNALS
		2#14	NEW MOTOR STARTER PANEL P51	CONTROL PANEL AT P21 NG300 SIMPLEX SKID	24VDC CONTROLS	24VDC COOLING FAN MOTOR RUNNING SIGNALS
		2#12, 1#12G	NEW MOTOR STARTER PANEL P51	CONTROL PANEL AT P21 NG300 SIMPLEX SKID	POWER	120VAC CONTORL PANEL (SKID P21)
		2#14	NEW MOTOR STARTER PANEL P51	CONTROL PANEL AT P21 NG300 SIMPLEX SKID	POWER	120VAC ESD (SKID P21)
		2#14	NEW MOTOR STARTER PANEL P51	CONTROL PANEL AT P21 NG300 SIMPLEX SKID	CONTROLS	ESD PUSHBUTTON
		2#14	NEW MOTOR STARTER PANEL P51	CONTROL PANEL AT P21 NG300 SIMPLEX SKID	CONTROLS	ESD RESET
C211	1" PVC W/ RGS RISERS	2#14	NEW MOTOR STARTER PANEL P51	CONTROL PANEL AT P21 NG300 SIMPLEX SKID	CONTROLS	MAIN MOTOR RUN SIGNAL
		2#14	NEW MOTOR STARTER PANEL P51	CONTROL PANEL AT P21 NG300 SIMPLEX SKID	CONTROLS	COOLING RUN SIGNAL
		2#14	NEW MOTOR STARTER PANEL P51	CONTROL PANEL AT P21 NG300 SIMPLEX SKID	CONTROLS	PRE-LUBE RUN SIGNAL
		2#14	NEW MOTOR STARTER PANEL P51	CONTROL PANEL AT P21 NG300 SIMPLEX SKID	CONTROLS	OIL HEATER ON SIGNAL
C229	4" PVC W/ RGS RISERS	CONDUIT ONLY (FUTURE)	NEW MOTOR STARTER PANEL P51	COMPRESSOR 2 MOTOR AT P22 NG300 SIMPLEX SKID	POWER	FUTURE 250HP MOTOR M4
C228	1" PVC W/ RGS RISERS	CONDUIT ONLY (FUTURE)	NEW MOTOR STARTER PANEL P51	JUNCTION BOX 22 AT P22 NG300 SIMPLEX SKID	POWER	FUTURE 120VAC OIL HEATER
	1" DV0 W / D00 D105D0	CONDUIT ONLY (FUTURE)	NEW MOTOR STARTER PANEL P51	JUNCTION BOX 22 AT P22 NG300 SIMPLEX SKID	POWER	FUTURE 480VAC PRE-LUBE MOTOR
C227	1" PVC W/ RGS RISERS	CONDUIT ONLY (FUTURE)	NEW MOTOR STARTER PANEL P51	JUNCTION BOX 22 AT P22 NG300 SIMPLEX SKID	POWER	FUTURE 480VAC COOLING FAN MOTO
		CONDUIT ONLY (FUTURE)	NEW MOTOR STARTER PANEL P51	CONTROL PANEL AT P22 NG300 SIMPLEX SKID	24VDC CONTROLS	FUTURE 24VDC MAIN MOTOR RULLING SIGNALS
C222	1" PVC W/ RGS RISERS	CONDUIT ONLY (FUTURE)	NEW MOTOR STARTER PANEL P51	CONTROL PANEL AT P22 NG300 SIMPLEX SKID	24VDC CONTROLS	FUTURE 24VDC PRE-LUBE COR RUNNING SIGNALS
		CONDUIT ONLY (FUTURE)	NEW MOTOR STARTER PANEL P51	CONTROL PANEL AT P22 NG300 SIMPLEX SKID	24VDC CONTROLS	FUTURE 24VDC COO ING FAN MOTOR RUNNING SIGNALS
		CONDUIT ONLY (FUTURE)	NEW MOTOR STARTER PANEL P51	CONTROL PANEL AT P22 NG300 SIMPLEX SKID	POWER	FUTURE 120VAC CU TOP' PANEL (SKID P22)
		CONDUIT ONLY (FUTURE)	NEW MOTOR STARTER PANEL P51	CONTROL PANEL AT P22 NG300 SIMPLEX SKID	POWER	FUTURE 12CVA ESD (SKID P22)
		CONDUIT ONLY (FUTURE)	NEW MOTOR STARTER PANEL P51	CONTROL PANEL AT P22 NG300 SIMPLEX SKID	CONTROLS	FUTURE FSD PUSHBUTTON
		CONDUIT ONLY (FUTURE)	NEW MOTOR STARTER PANEL P51	CONTROL PANEL AT P22 NG300 SIMPLEX SKID	CONTROLS	FUTURE CORESET
C221	1" PVC W/ RGS RISERS	CONDUIT ONLY (FUTURE)	NEW MOTOR STARTER PANEL P51	CONTROL PANEL AT P22 NG300 SIMPLEX SKID	CONTROLS	FUTURE MAIN MOTOR RUN SIGNAL
		CONDUIT ONLY (FUTURE)	NEW MOTOR STARTER PANEL P51	CONTROL PANEL AT P22 NG300 SIMPLEX SKID	CONTROLS	TUTURE COOLING RUN SIGNAL
		CONDUIT ONLY (FUTURE)	NEW MOTOR STARTER PANEL P51	CONTROL PANEL AT P22 NG300 SIMPLEX SKID	CONTROLS	FUTURE PRE-LUBE RUN SIGNAL
		CONDUIT ONLY (FUTURE)	NEW MOTOR STARTER PANEL P51	CONTROL PANEL AT P22 NG300 SIMPLEX SKID	CONTROLS	FUTURE OIL HEATER ON SIGNAL
C215	1" PVC W/ RGS RISERS	CsCAN A BELDEN 3084A (FUTURE)	CONTROL PANEL AT P21 NG300 SIMPLEX SKID	CONTROL PANEL AT P22 NG300 SIMPLEX SKID	CC. W' NICATIONS	FUTURE CSCAN NETWORK COMMUNICATIONS (XL7 OPERATOR
C224	1" PVC W/ RGS RISERS	CAT6, SHIELDED (FUTURE)	P4 EXISTING COMM/FIRE ALARM PANEL	CONTROL PANEL AT P22 NG300 SIMPLEX SKID	C MMUNICATIONS	FUTURE CONTROL PANEL ENET-22 (XL7 CONTROLLER)
C214	1" PVC W/ RGS RISERS	CAT6, SHIELDED	P4 EXISTING COMM/FIRE ALARM PANEL	CONTROL PANEL AT P21 NG300 SIMPLEX SKID	C MMUNICATIONS	CONTROL PANEL ENET-22 (XL7 CONTROLLER)
C213	1" PVC W/ RGS RISERS	CsCAN A BELDEN 3084A	CONTROL PANEL AT P21 NG300 SIMPLEX SKID	EXISTING P2 DUAL COMPRESSOR	COMMUNICATIONS	CsCAN NETWORK COMMUNICATIONS (XL7 OPERATOR)
CDR1	1" PVC W/ RGS RISERS	3#8, 1#8G	NEW MOTOR STARTER PANEL P51	NEW DRYER	POWER	480VAC DRYER
CDR2	1" PVC W/ RGS RISERS	2#12, 1#12G	NEW MOTOR STARTER PANEL P51	NEW DRYER ESD	POWER	DRYER ESD
CDR3	1" PVC W/ RGS RISERS	2#14	COMPRESSOR CONTROL	DRYER	CONTROLS	DRYER COMMUNICATION
CESD	3/4" PVC W/ RGS RISERS	2#12, 1#12G	NEW MOTOR STARTER PANEL P51	NEW ESD OUTSIDE PERIMETER FEN L	POWER	120VAC ESD
C201A	3/4" PVC W/ RGS RISERS	2#12, 1#12G	NEW MOTOR STARTER PANEL P51	EQUIPMENT AREA LIGHT (VIA 10 IT SWITCH)	POWER	120/277VAC POWER
	3, 1 1 3 11, 113 113 113			Eggi WEITI / ITET Elem (Die Eggi Weiti)		120, 27, 7, 70

CONDUCTOR TYPE DESCRIPTION



DESIGNATOR CONDUIT

CONDUCTOR

CONDUIT AND CABLE SCHEDULE

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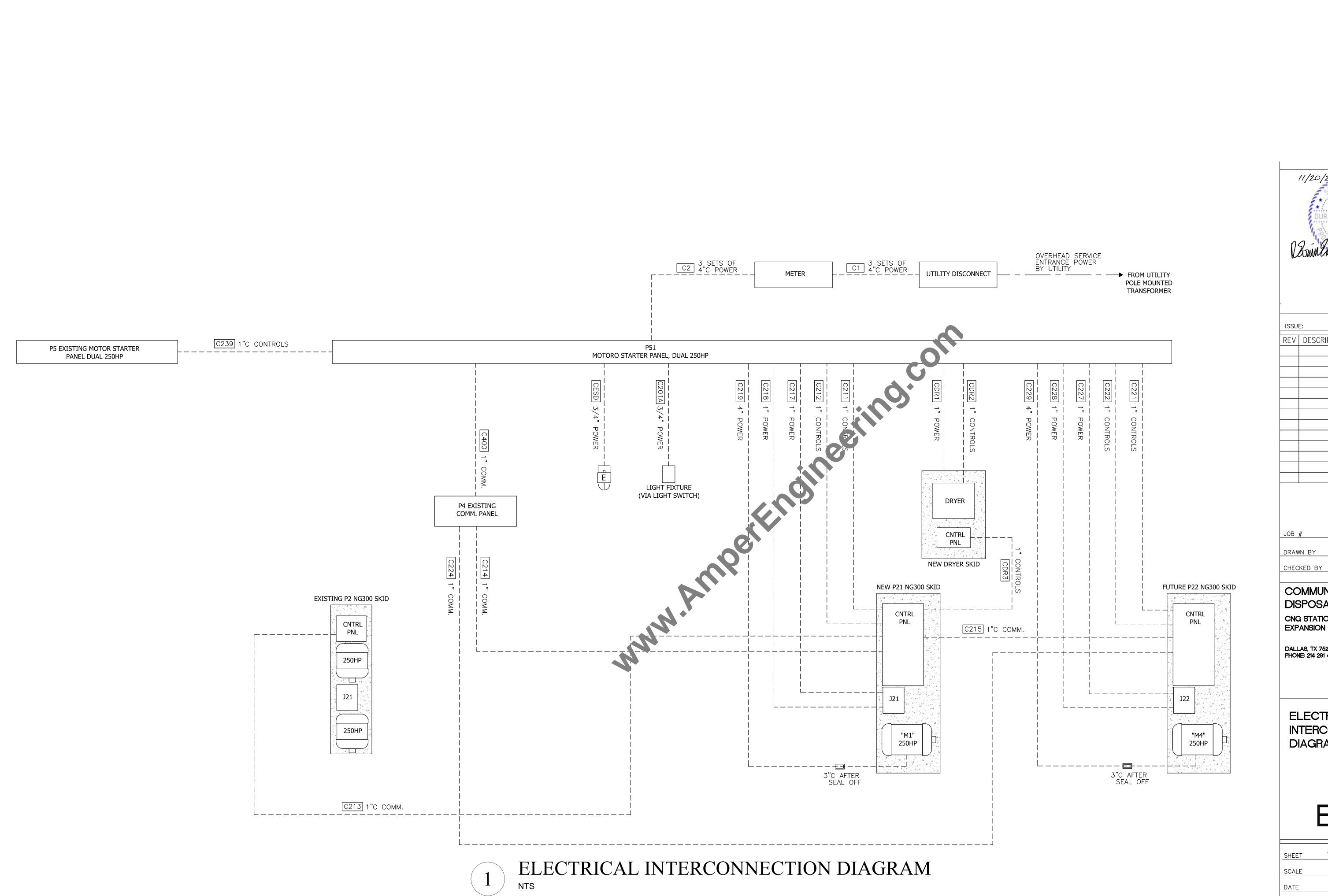
COMMUNITY WASTE DISPOSAL CNG STATION EQUIPMENT EXPANSION

DALLAS, TX 75220 PHONE: 214 291 4460

ELECTRICAL CONDUIT AND WIRE SCHEDULE

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COMMUNITY WASTE DISPOSAL CNG STATION EQUIPMENT

PD

YR

DALLAS, TX 75220 PHONE: 214 291 4460

ELECTRICAL INTERCONNECTION DIAGRAM

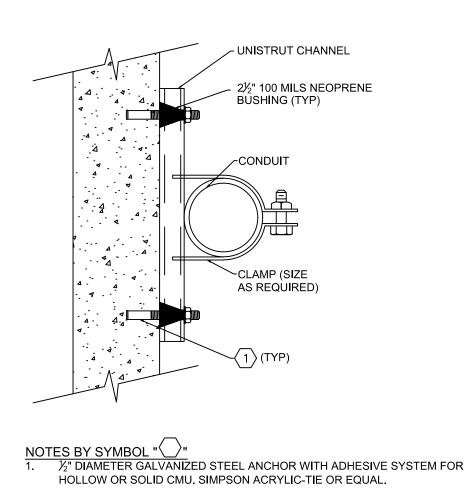
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13 of 17 NOVEMBER 11, 2020

# ELECTRICAL EQUIPMENT ANCHORING FRAME ASSEMBLY NTS

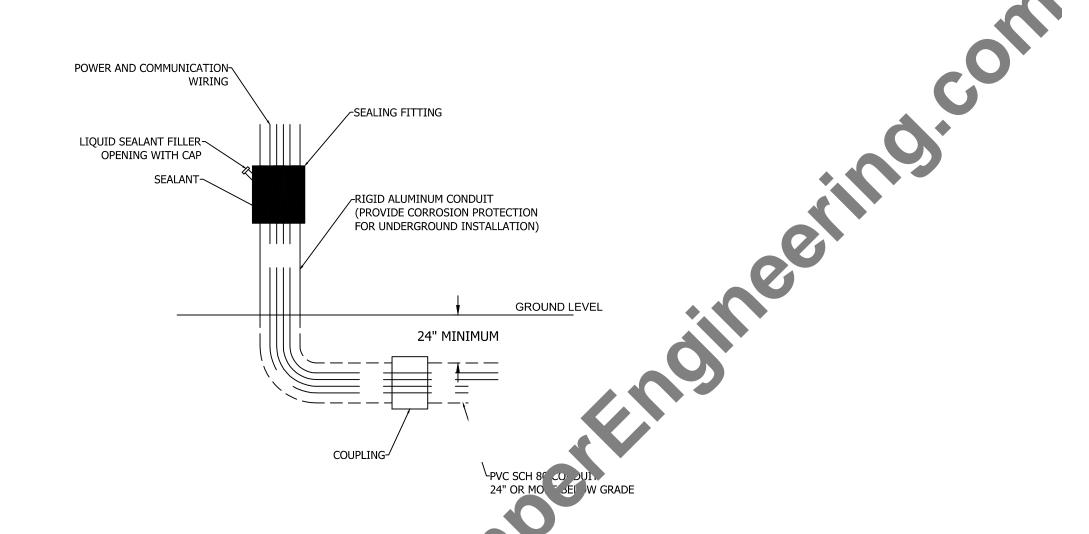
NOTES:

1. SECURE ANCHOR CHANNELS TO BRACE POSTS USING 3" GALVANIZED U-BOLTS.

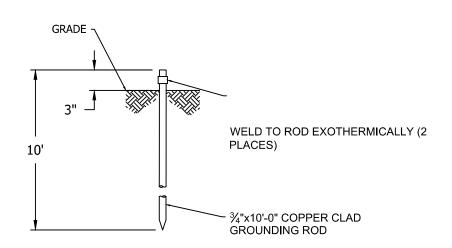


GROUND OR WALL EXPOSED CONDUIT INSTALLATION

NTS



2 UNDERGROUNE CONDUIT SEAL-OFF



GROUNDING/GROUND ROD DETAIL

NTS



REV	DESCRIPTION	DATE

JOB # 2020915

DRAWN BY PD

CHECKED BY YR

COMMUNITY WASTE DISPOSAL CNG STATION EQUIPMENT EXPANSION

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ELECTRICAL DETAILS

E400

SHEET 14 OF 17

SCALE

DATE NOVEMBER 11, 2020