



# EMW GAS ASSOCIATION PUBLIC CNG STATION SITE AND MEP PLANS

LOCATED AT  
614 U.S. ROUTE 66 (W)  
MORIARTY, TORRANCE COUNTY, NEW MEXICO 87035



216 S. MAIN STREET  
P.O. BOX 1538  
JOPLIN, MISSOURI 64802  
TEL: 417.624.2333  
FAX: 417.624.2441  
EMAIL: jbolte@small-arrow.com

SMALL ARROW ENGINEERING, LLC.

CERTIFICATES OF AUTHORIZATION:  
MISSOURI: E-2010013647  
KANSAS: E-1930  
ARKANSAS: 2097  
OKLAHOMA: 5937

## GENERAL NOTES

1. ALL CONSTRUCTION ACTIVITIES AND MATERIALS SHALL FOLLOW/MEET LOCAL CODES AND SPECIFICATIONS.
2. CONTRACTORS SHALL FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS. DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER BEFORE CONSTRUCTION BEGINS.
3. EXISTING UTILITIES HAVE BEEN SHOWN WITH INFORMATION AVAILABLE. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF THE EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING INSTALLATION OF NEW FACILITIES. CONTACT THE ENGINEER FOR INSTRUCTIONS WHEREVER ANY CONFLICTS ARE DISCOVERED.
4. IT IS THE CONTRACTORS RESPONSIBILITY TO CORRECT ANY DAMAGE TO UTILITIES OR OTHER IMPROVEMENTS WHICH IS DUE TO HIS OPERATION.
5. THE CONTRACTOR SHALL STRICTLY COMPLY WITH ALL OSHA SAFETY RULES AND REGULATIONS AND USE ONLY APPROVED EQUIPMENT REQUIRED FOR THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL STRICTLY COMPLY WITH ALL OSHA SAFETY RULES AND REGULATIONS AND USE ONLY APPROVED METHODS OF EXCAVATION, TRENCHING AND SHORING METHODS DESCRIBED IN OSHA 29 CFR 1926.650 THE CONTRACTOR SHALL MAINTAIN AND CLOSELY SUPERVISE ALL SAFETY PRACTICES AND CODES, EXTREME CARE SHALL BE TAKEN TO SAFEGUARD THE PUBLIC AND THE EMPLOYEES OF THE CONTRACTOR.

## GENERAL INSTALLATION SPECIFICATIONS

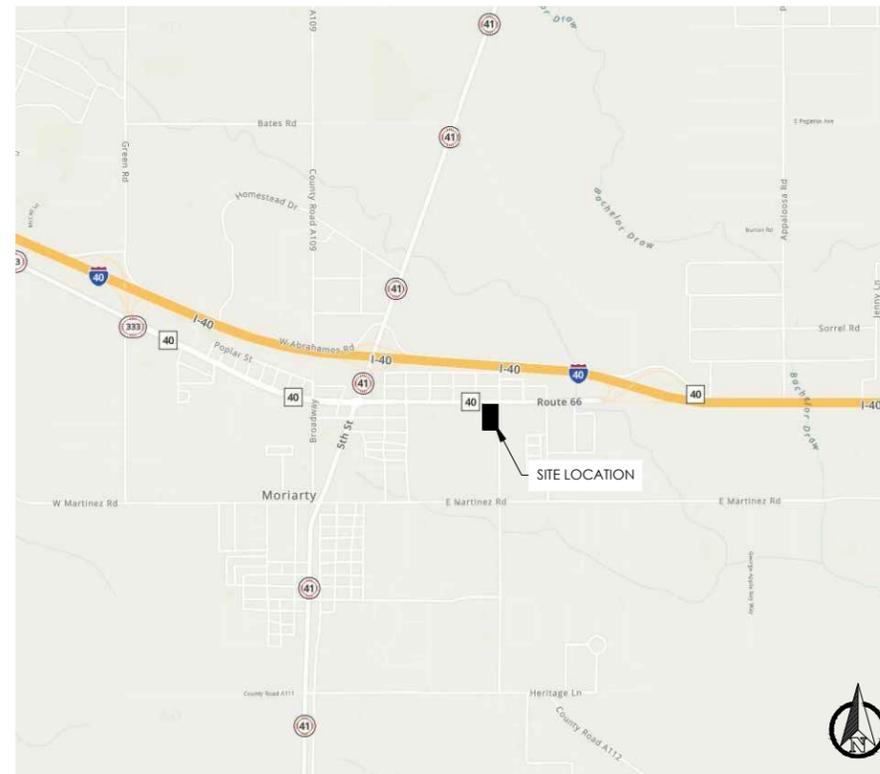
ENTIRE FACILITY SHALL BE CONSTRUCTED PER 2013 NFPA 52, THE 2009 IFC AND ALL APPLICABLE AMENDMENTS.  
(CONTRACTOR TO PROVIDE EQUIPMENT SUBMITTALS TO ENGINEER FOR APPROVAL.)

1. EACH EMERGENCY SHUT DOWN DEVICE SHALL BE EQUIPPED WITH A 20 LB BC RATED (CO2) FIRE EXTINGUISHER MOUNTED IN SURFACE CABINET.
2. EXPOSED BARE STEEL SHALL BE PAINTED WITH METAL PRIMER AND TWO COATS LATEX. GALVANIZED METAL MAY REMAIN EXPOSED. ALL EXPOSED STEEL GAS INLET PIPING SHALL BE PAINTED WHITE.
3. INSTALL ALL HARDWARE PER MANUFACTURER'S INSTRUCTIONS.
4. EMERGENCY SHUTDOWN SYSTEM (ESD) IS DESIGNED TO SHUT OFF THE FLOW OF GAS FROM THE COMPRESSOR TO THE PRIORITY PANEL, FROM THE STORAGE CYLINDERS TO THE PRIORITY PANEL, AND FROM THE PRIORITY PANEL TO THE DISPENSERS AND DESIGNED TO SHUT DOWN THE COMPRESSOR MOTOR. THE RELAYS REQUIRED FOR THE ESD WILL BE INSTALLED ON THE COMPRESSOR CONTROL PANEL. THIS WILL ALLOW THE ESD SYSTEM TO SHUT OFF THE COMPRESSOR INLET SOLENOID VALVE INCORPORATED INTO THE COMPRESSOR PACKAGE AND PRIORITY PANEL. ONE ESD BUTTON WILL BE MOUNTED ON/ADJACENT TO EACH COMPRESSION SKID. REMOTE ESD BUTTONS WILL BE MOUNTED IN THE DISPENSER AREA PER EQUIPMENT PLAN VIEW. SEE PLAN VIEW FOR LOCATIONS. SHUT DOWNS WILL BE RED PUSH BUTTON TYPE SUITABLE FOR INSTALLATION IN CLASSIFIED LOCATIONS AS DEFINED ON ELECTRICAL PLANS AND BY NFPA 52.

### OWNER CONTACT INFORMATION

OWNER: EDDIE O'BRIEN, GENERAL MANAGER  
EMW GAS ASSOCIATION  
416 5TH ST  
ESTANCIA, NM 87016

PHONE: (505) 384-2369



LOCATION MAP  
MORIARTY, NEW MEXICO

N.T.S

## INDEX OF SHEETS

- 1 COVER SHEET
- 2 CNG STATION - SITE LAYOUT
- 3 CNG EQUIPMENT LAYOUT
- 4 CNG STATION - GRADING LAYOUT
- 5 EQUIPMENT ENCLOSURE WALL ELEVATIONS
- 6 WALL CONSTRUCTION DETAILS
- 7-8 CANOPY LAYOUT, ELEVATIONS AND DETAILS
- 9 EQUIPMENT PAD CONSTRUCTION DETAILS
- 10 MISC. CONSTRUCTION DETAILS
- 11 INLET GAS PIPING DETAILS
- 12 CNG & SAFETY SIGN DETAILS
- 13 SIGN PLACEMENT & LAYOUT
- 14 ELECTRICAL - BILL OF MATERIALS
- 15 ELECTRICAL - ONE-LINE DIAGRAM
- 16 ELECTRICAL - ESD CTRL PANEL BOM & DETAILS
- 17 ELECTRICAL - SITE CAMERA FOV & PHOTOMETRY
- 18-20 ELECTRICAL - EQUIP. WALL ELEVATIONS
- 21-22 ELECTRIC - CONDUIT LAYOUT - EQUIPMENT
- 23-24 ELECTRIC - EQUIPMENT TERMINATIONS
- 25-26 ELECTRIC - CONDUIT & CABLING SCHEDULE
- 27 EROSION CONTROL DETAILS



JOHN H. BOLTE - PROFESSIONAL ENGINEER  
MO LIC E22511 OK LIC 18035  
KS LIC 14094 AR LIC 14310

PUBLIC ACCESS CNG STATION  
 E.M.W. GAS ASSOCIATION  
 614 U.S. Route 66 (W)  
 MORIARTY, NM 87035  
 COVER SHEET, INDEX, LOC. MAP

SURVEY BY: N/A PROJECT #: 20104  
DRAWN BY: TED DATE: 08/12/2020  
CHECKED BY: JHB SCALE: N.T.S.

PROJECT: PUBLIC CNG STATION

SHEET DESC: COVER SHEET

SHEET: 1 OF: 27

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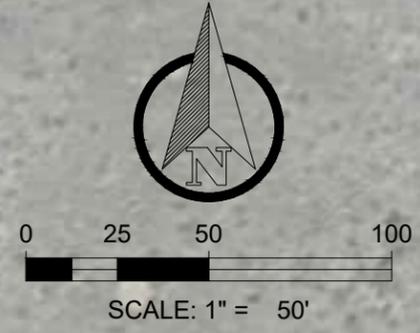
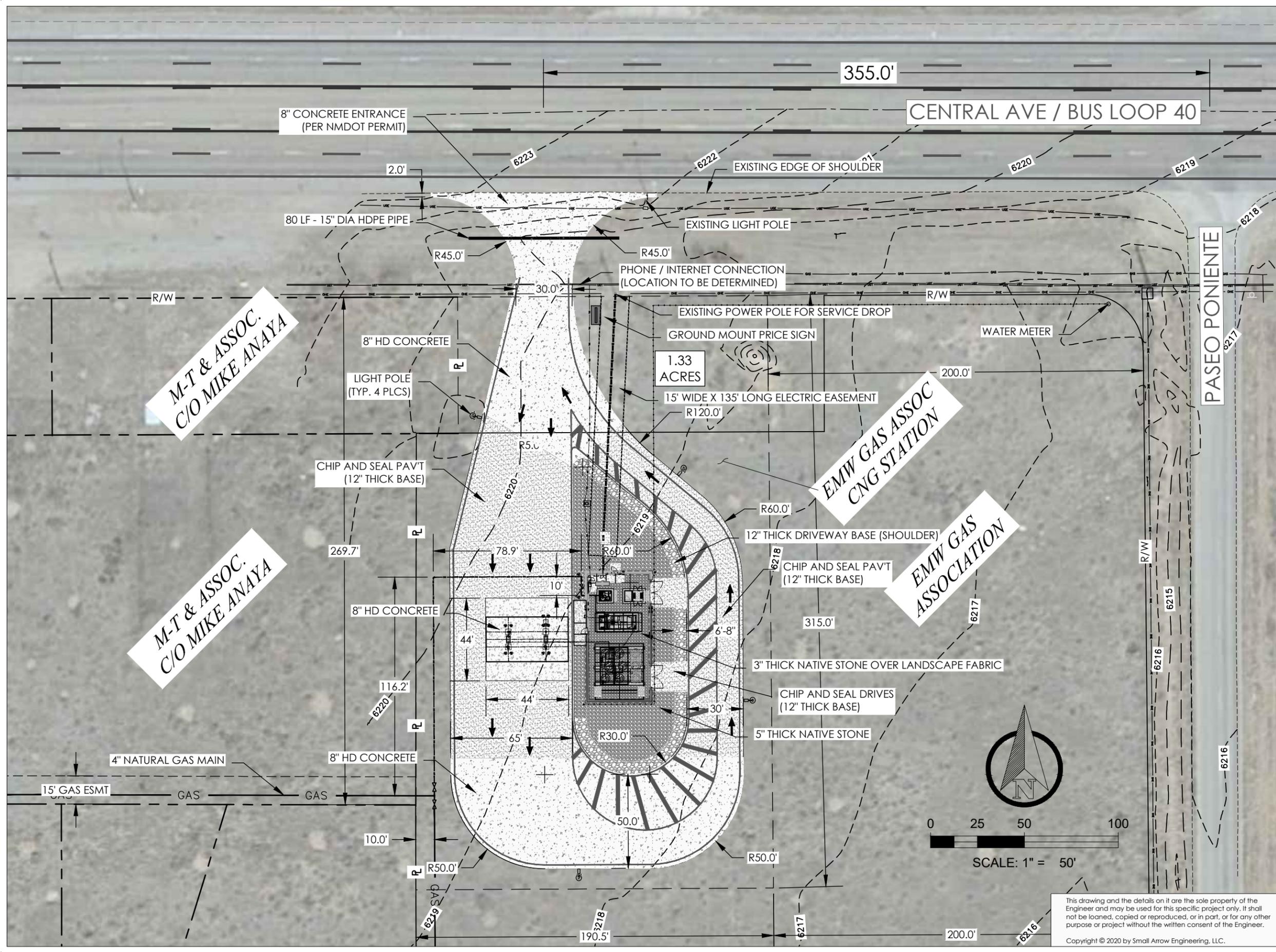
**PUBLIC ACCESS CNG STATION**  
**E.M.W. GAS ASSOCIATION**  
 614 U.S. Route 66 (W)  
 MORIARTY, NM 87035  
**CNG STATION - SITE LAYOUT**

SURVEY BY: N/A PROJECT #: 20104  
 DRAWN BY: TED DATE: 08/12/2020  
 CHECKED BY: JHB SCALE: 1"=50'

PROJECT: PUBLIC CNG STATION

SHEET DESC: CNG STATION - SITE LAYOUT

SHEET: 2 OF 27



**M-T & ASSOC.**  
**C/O MIKE ANAYA**

**M-T & ASSOC.**  
**C/O MIKE ANAYA**

**EMW GAS ASSOC**  
**CNG STATION**

**EMW GAS**  
**ASSOCIATION**

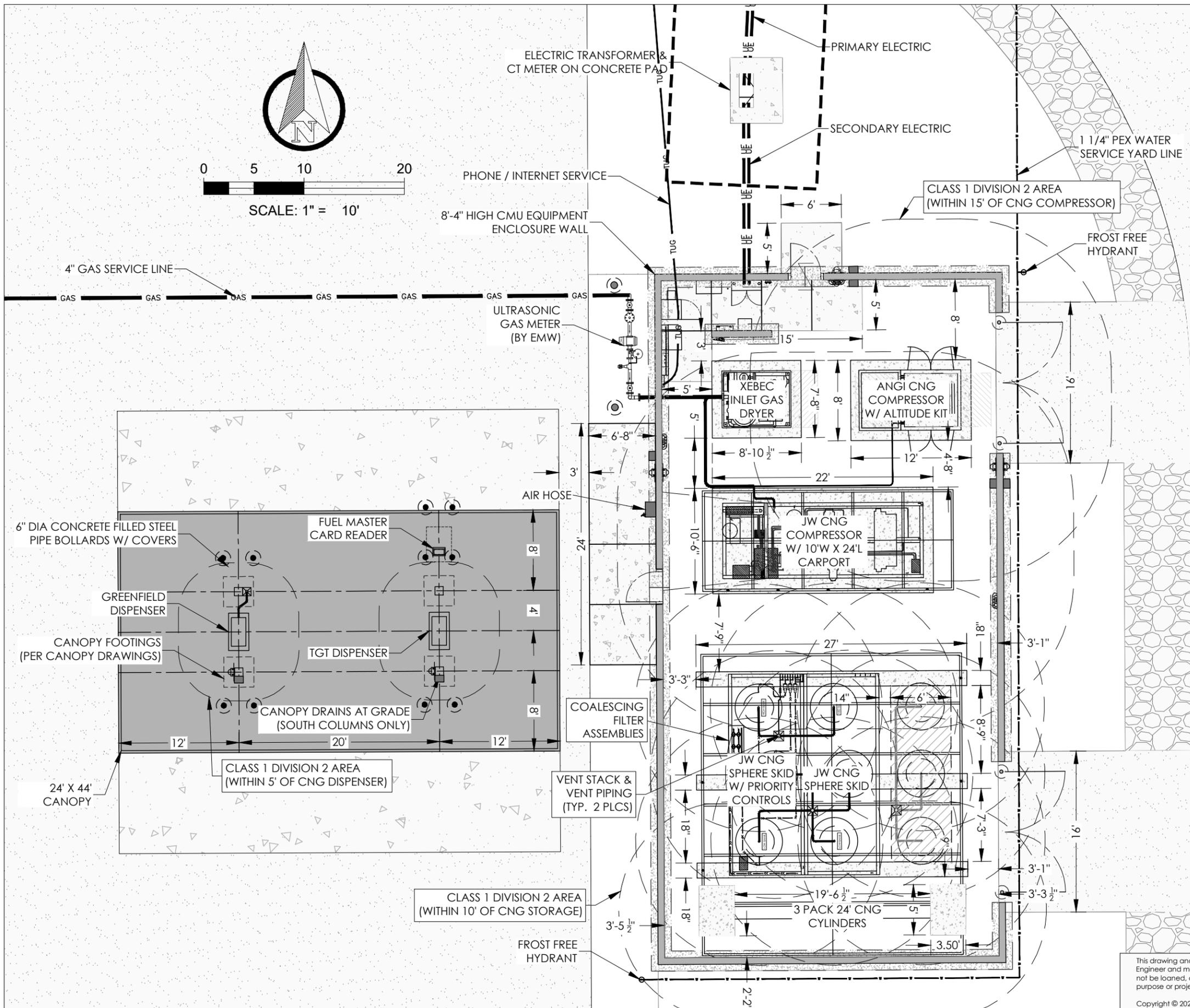
**PASEO PONIENTE**

**CENTRAL AVE / BUS LOOP 40**

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SCALE: 1" = 10'



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KS LIC 14094 AR LIC 14310

**PUBLIC ACCESS CNG STATION**  
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**614 U.S. Route 66 (W)**  
**MORIARTY, NM 87035**  
**CNG EQUIPMENT LAYOUT**

SURVEY BY: N/A PROJECT #: 20104  
DRAWN BY: TED DATE: 08/12/2020  
CHECKED BY: JHB SCALE: 1"=10'

PROJECT: PUBLIC CNG STATION  
SHEET DESC: CNG EQUIPMENT LAYOUT  
SHEET: 3 OF 27

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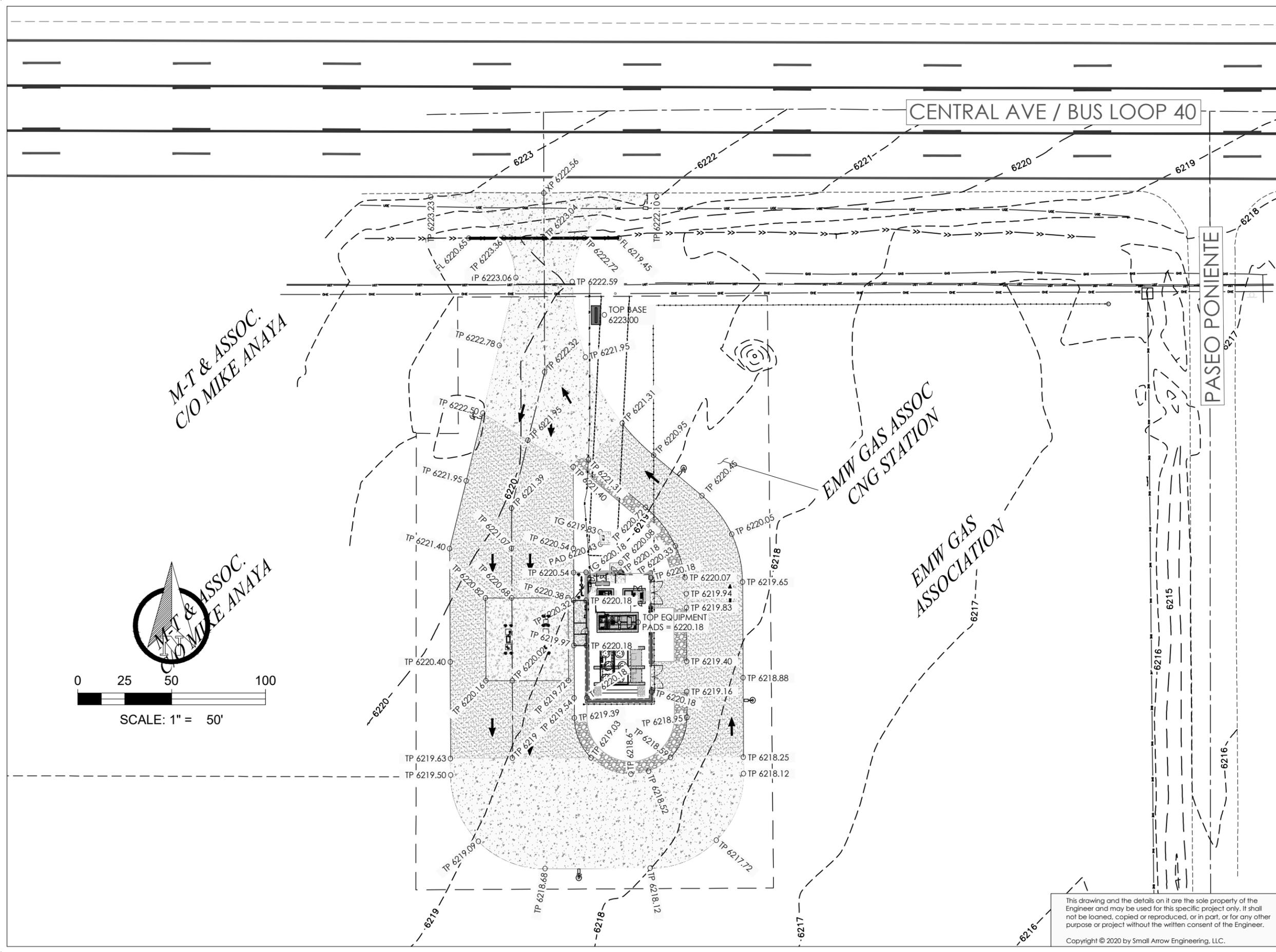
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**CNG STATION - GRADING LAYOUT**

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DRAWN BY: TED DATE: 08/12/2020  
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PROJECT: PUBLIC CNG STATION

SHEET DESC: CNG STATION - GRADING

SHEET: 4 OF 27



M-T & ASSOC.  
C/O MIKE ANAYA



0 25 50 100  
SCALE: 1" = 50'

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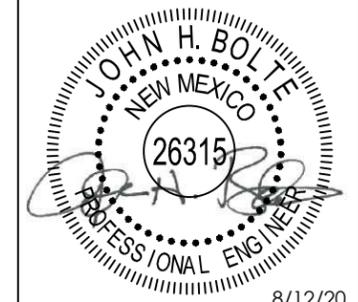


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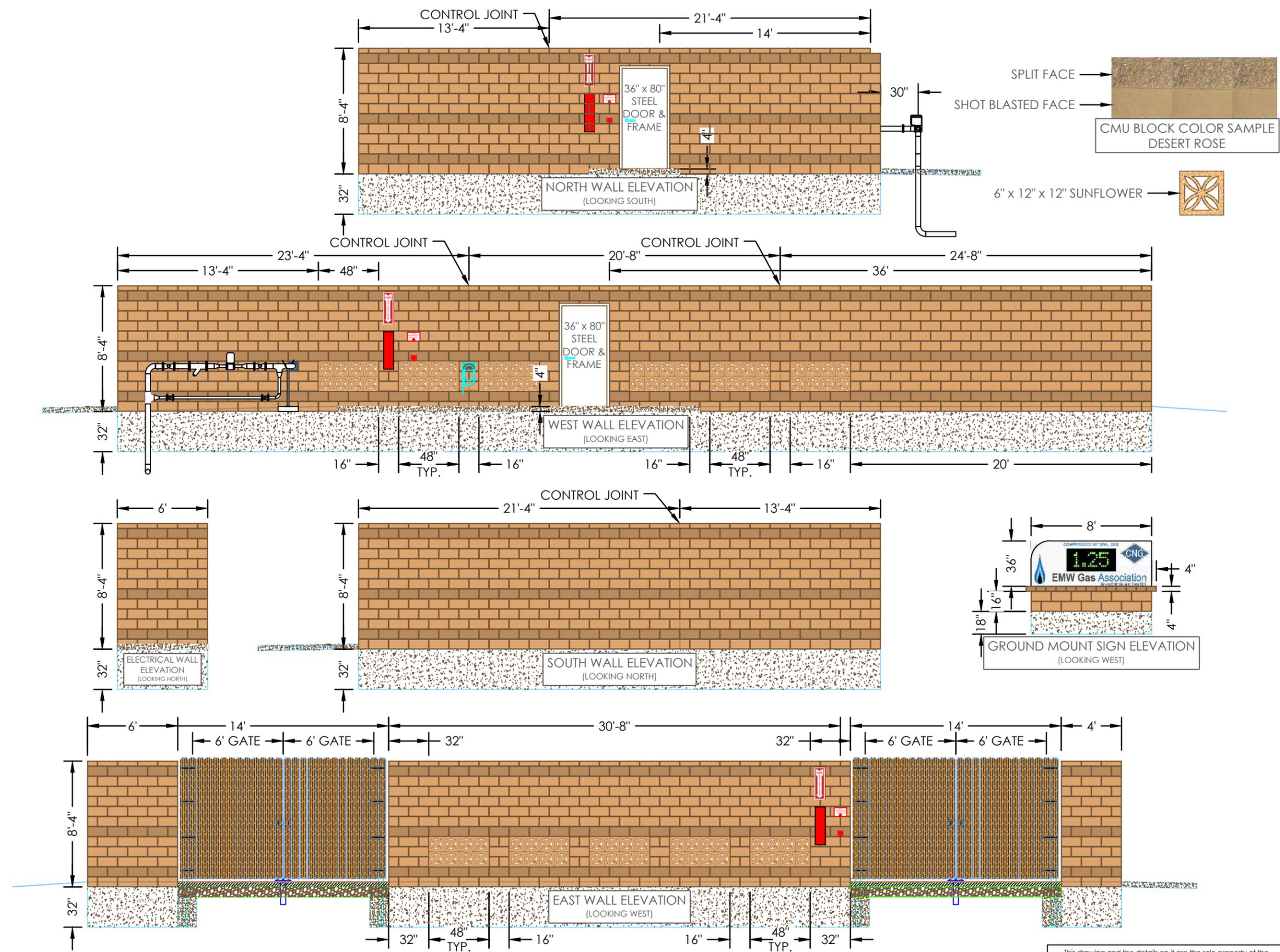
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**WALL & SIGN ELEVATIONS**

SURVEY BY: N/A PROJECT #: 20104  
DRAWN BY: TED DATE: 08/12/2020  
CHECKED BY: JHB SCALE: 1"=10'

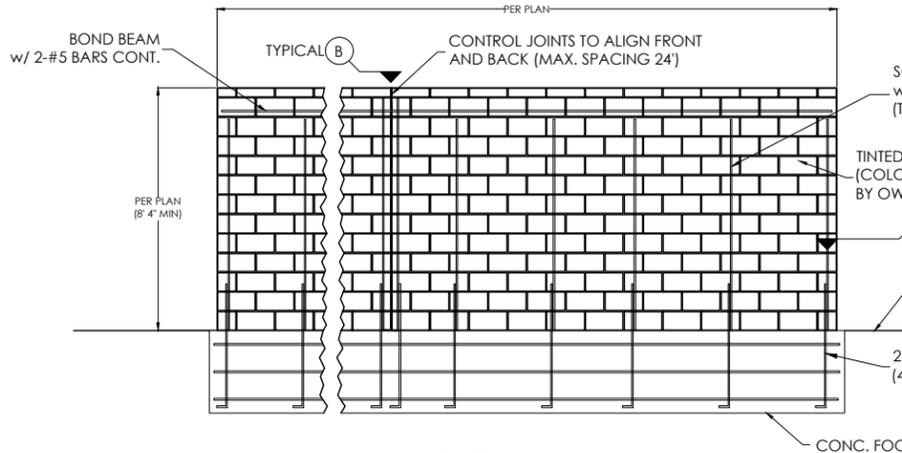
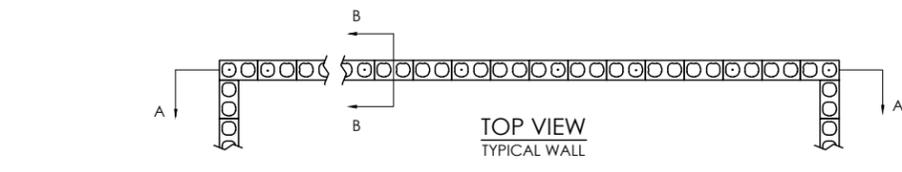
PROJECT: PUBLIC CNG STATION

SHEET DESC: WALL & SIGN ELEVATIONS

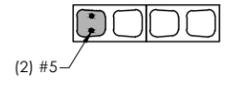
SHEET: 5 OF 27



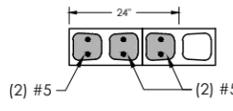
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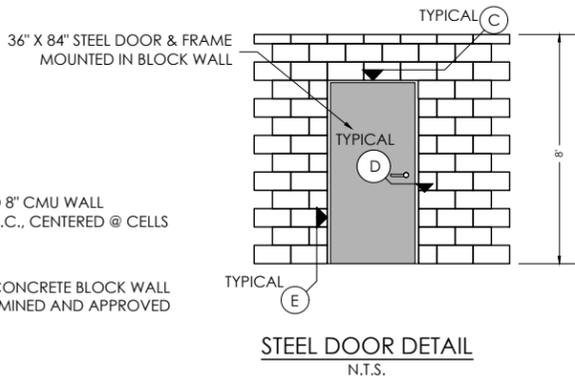
NOTE:  
AT OPENINGS LESS THAN 3'-4"  
PROVIDE (2) #5 IN ADJACENT JAMB CELL



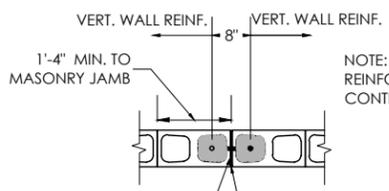
NOTE:  
AT SWING GATE OPENING, PROVIDE (2)  
#5 IN EACH OF 3 ADJACENT JAMB CELLS



**D REINFORCING - DOOR & GATE JAMBS**  
N.T.S.

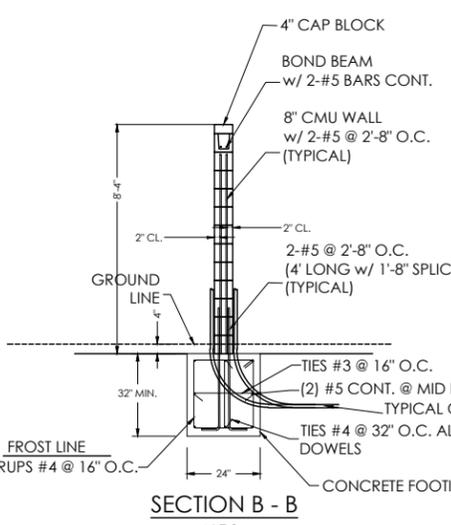


NOTE:  
1. DOOR COLOR TO BE DETERMINED  
AND APPROVED BY OWNER.

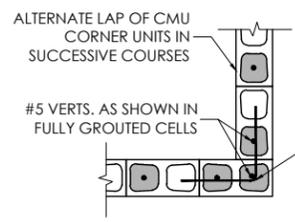


PRE-MOLD RUBBER JOINT MATERIAL  
FULL HEIGHT OF WALL BETWEEN BOND  
BEAMS - SEE SPECS. FOR SEALANT

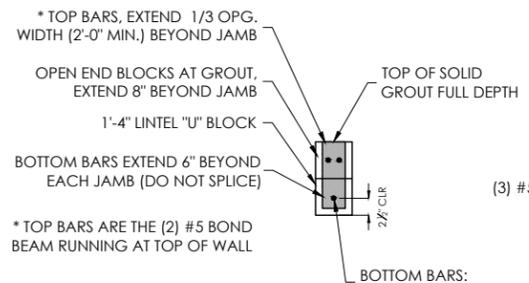
**B MASONRY WALL CONTROL JOINT TYPICAL**  
N.T.S.



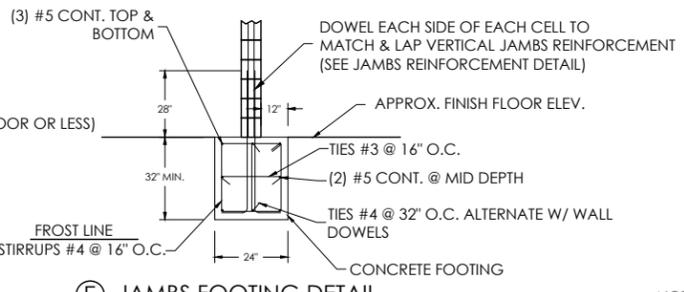
**A REINFORCING - WALL CORNERS**  
N.T.S.



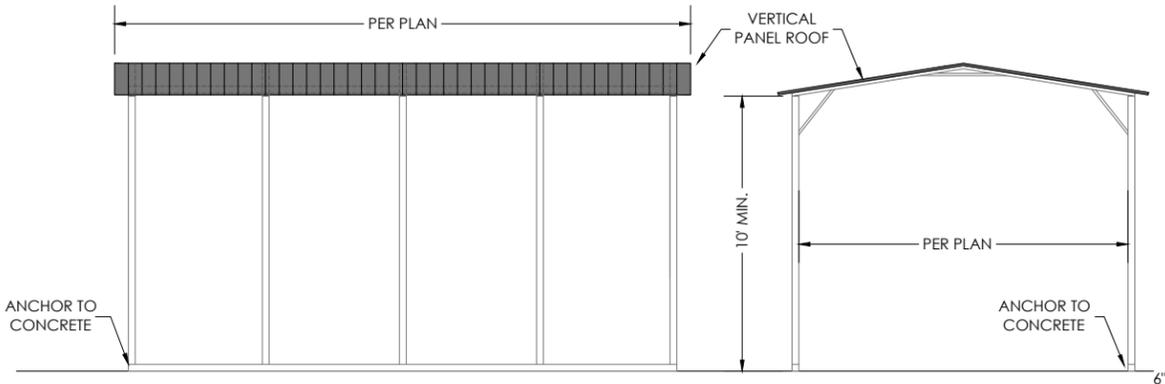
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N.T.S.



**C MASONRY LINTEL**  
N.T.S.



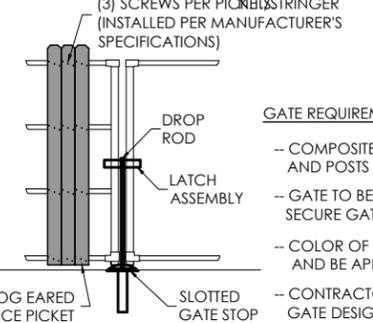
**E JAMBS FOOTING DETAIL**  
N.T.S.



NOTE:  
COLOR TO BE DETERMINED AND  
APPROVED BY OWNER

NOTE:  
DIMENSIONS SHOWN ARE APPROXIMATE. FINAL DIMENSIONS MAY VARY TO AVOID  
CONFLICTS WITH COMPRESSOR CONNECTIONS AND VENTING. COMPRESSOR VENT  
STACKS SHALL BE EXTENDED AS REQUIRED TO VENT 24" MIN. ABOVE EAVE OR ROOF LINE.

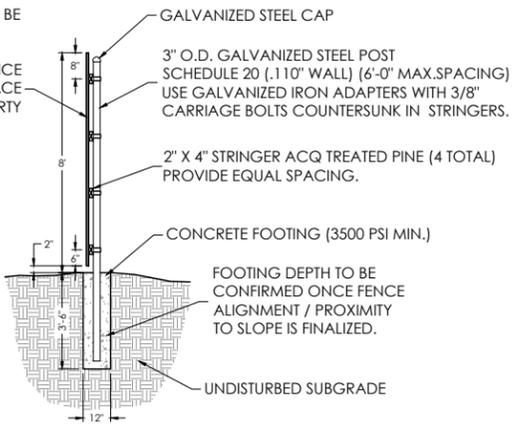
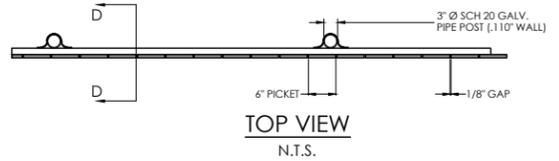
**8' HIGH COMPOSITE PICKET FENCE DETAIL**



NOTE:  
STEEL SLOTTED GATE STOP SET IN CONCRETE OR FORMED SLOTTED  
CONCRETE GATE STOP SET AS TO MAINTAIN THE INTEGRITY OF STOP.

**GATE DETAIL**  
N.T.S.

- GATE REQUIREMENTS:**
- COMPOSITE PICKET GATE WITH STEEL FRAME AND POSTS
  - GATE TO BE LOCKABLE AND TO HAVE HOOK/LATCH TO SECURE GATE IN BOTH THE OPEN AND CLOSED POSITIONS
  - COLOR OF METAL (TO COMPLEMENT THE SITE AND BE APPROVED BY OWNER)
  - CONTRACTOR TO PROVIDE SUBMITTAL ON GATE DESIGN FOR APPROVAL BY ENGINEER



NOTE:  
FINAL WALL/FENCE STYLE(S)/COLOR(S) TO BE  
DETERMINED AND APPROVED BY OWNER.

**FENCE NOTES**  
STRINGERS SHALL BE ACQ  
ALL FASTENERS SHALL BE  
HOT-DIPPED GALVANIZED

**WALL NOTES:**  
WALL SHALL BE WEATHER SEALED.

1. REINFORCED CONCRETE:  
F<sub>c</sub> = 4,000 P.S.I. (28 DAY) W/C RATIO < 0.47
2. REINFORCING STEEL: GRADE 60 STEEL
3. MASONRY:  
NORMAL WEIGHT CONCRETE MASONRY UNITS  
1) F<sub>m</sub> = 1500 P.S.I.  
2) F<sub>b</sub> = 500 P.S.I.  
B. GROUT AND MORTAR  
1) 28 DAY COMPRESSIVE STRENGTH  
GROUT 2,000 P.S.I.  
2) 28 DAY COMP. STRENGTH  
TYPE "S" MORTAR = 1,800 P.S.I.  
3) 28 DAY COMP. STRENGTH  
TYPE "M" MORTAR = 2,500 P.S.I.



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8/12/20

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**WALL CONSTRUCTION DETAILS**

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CHECKED BY: JHB SCALE: N.T.S.

PROJECT: PUBLIC CNG STATION

SHEET DESC: WALL CONST. DETAILS

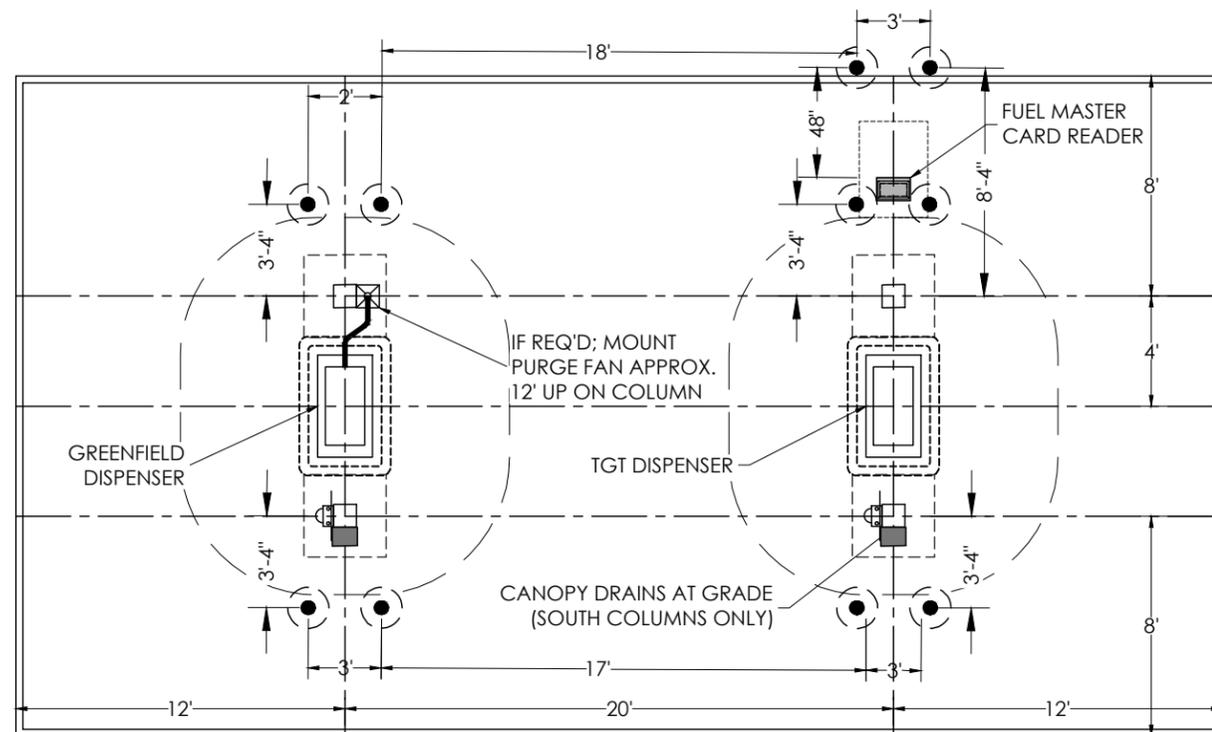
SHEET: 6 OF 27

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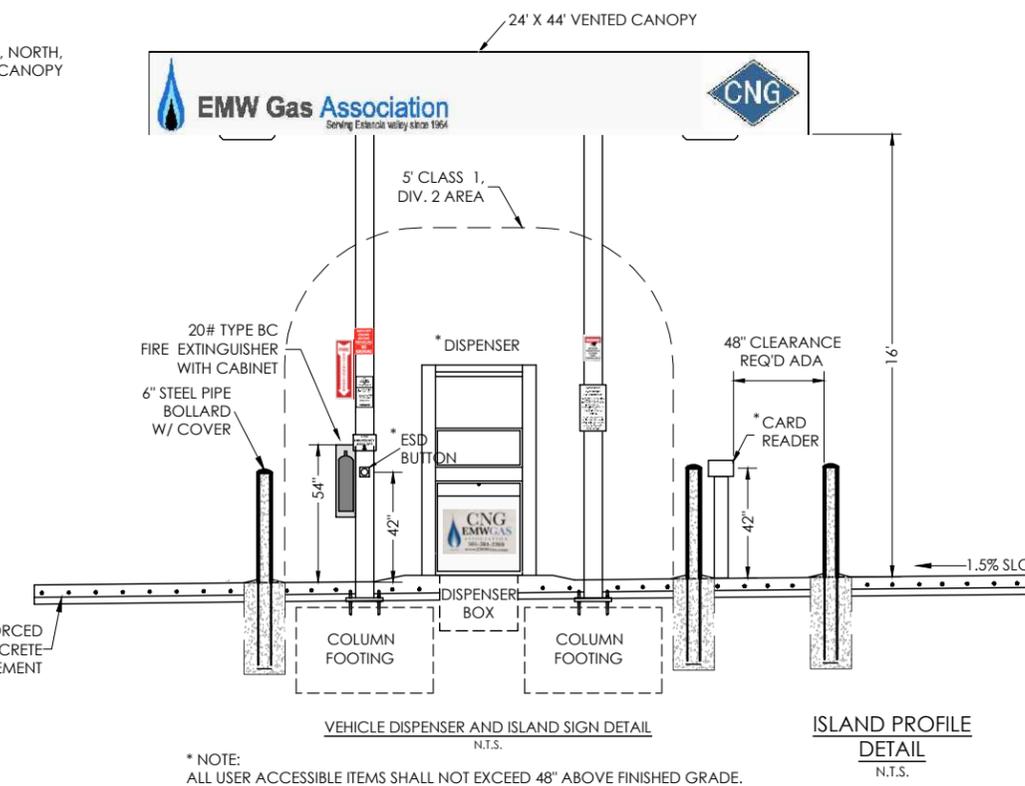
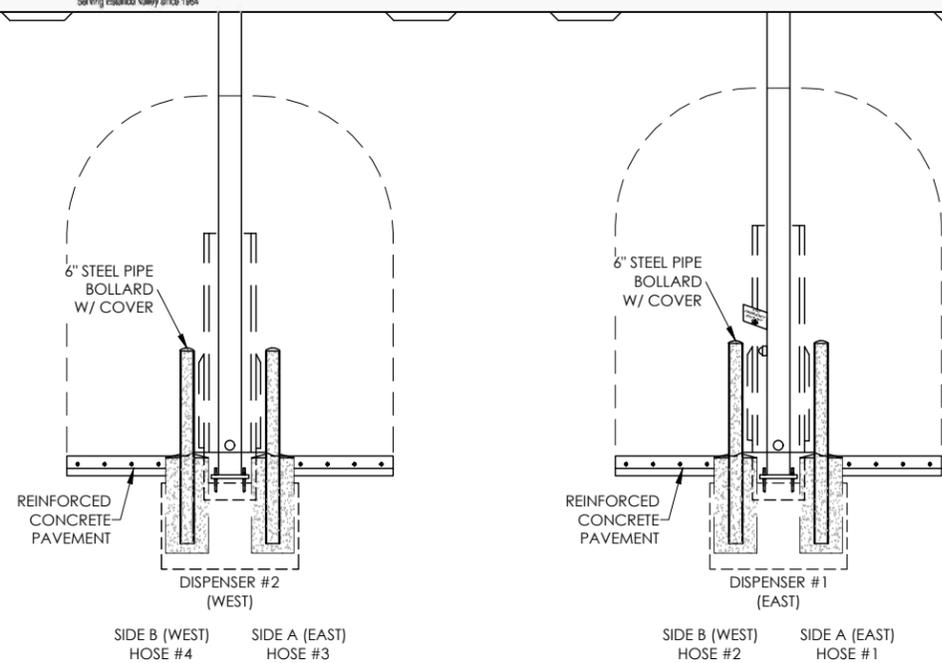
8/12/20

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GRAPHICS ON WEST, NORTH,  
AND EAST SIDES OF CANOPY

8 LED  
CANOPY LIGHTS



\* NOTE:  
ALL USER ACCESSIBLE ITEMS SHALL NOT EXCEED 48" ABOVE FINISHED GRADE.  
(IE. HOSE, START/STOP BUTTONS, CARD READER INTERFACE...)

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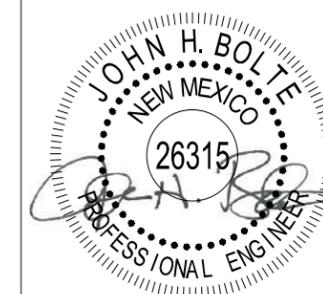
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CANOPY LAYOUT & ELEVATIONS

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PROJECT: PUBLIC CNG STATION

SHEET DESC: CANOPY LAYOUT & ELEVS

SHEET: 7 OF 27



8/12/20

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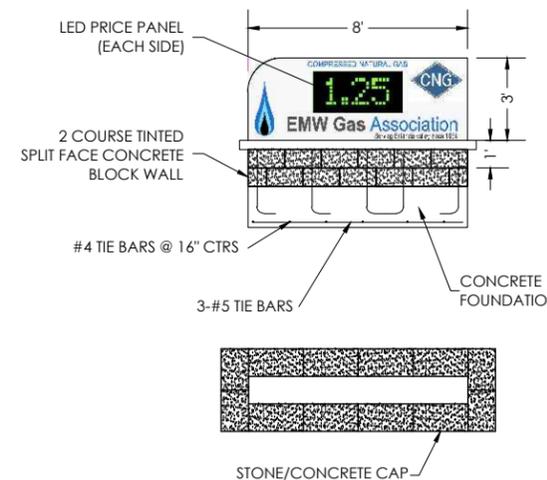
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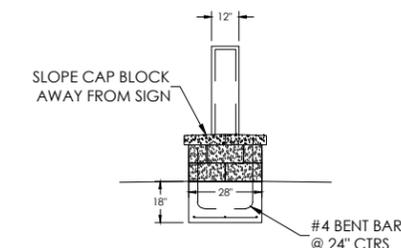
PROJECT: PUBLIC CNG STATION

SHEET DESC: CANOPY LAYOUT & ELEVS

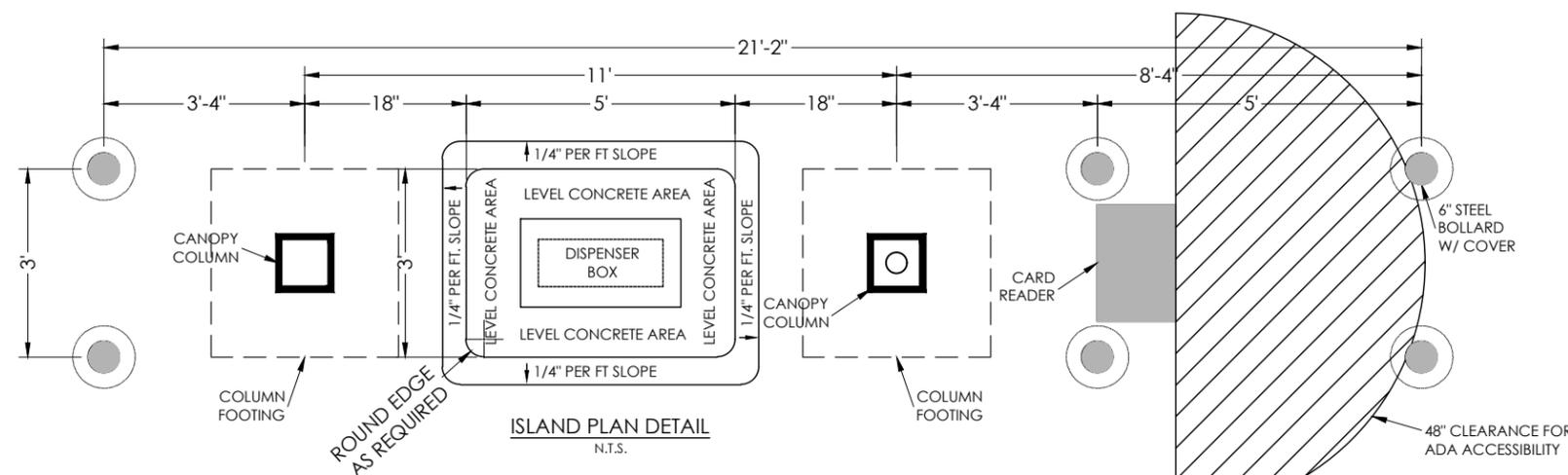
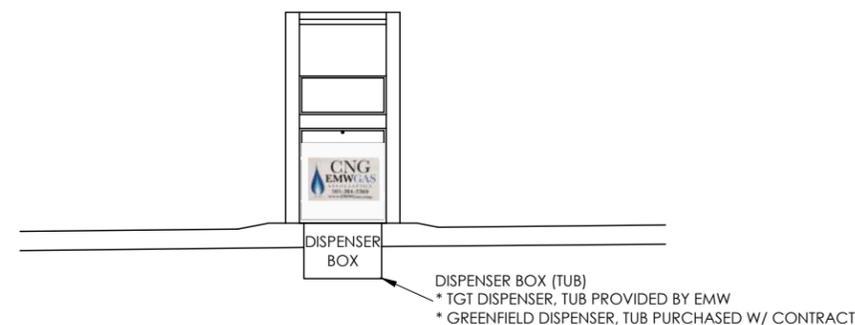
SHEET: 8 OF 27



GROUND MOUNTED SIGN (2 SIDED)  
SIGN CONSTRUCTION: 36" X 96"  
FINAL GRAPHICS DESIGN, SIGN LETTERING, LOGOS, AND COLORS  
TO BE APPROVED BY EMW GAS ASSOCIATION  
SCREEN PRINTED DESIGN ON ALUMINUM PANELS  
\*PROVIDE SUBMITTAL\*



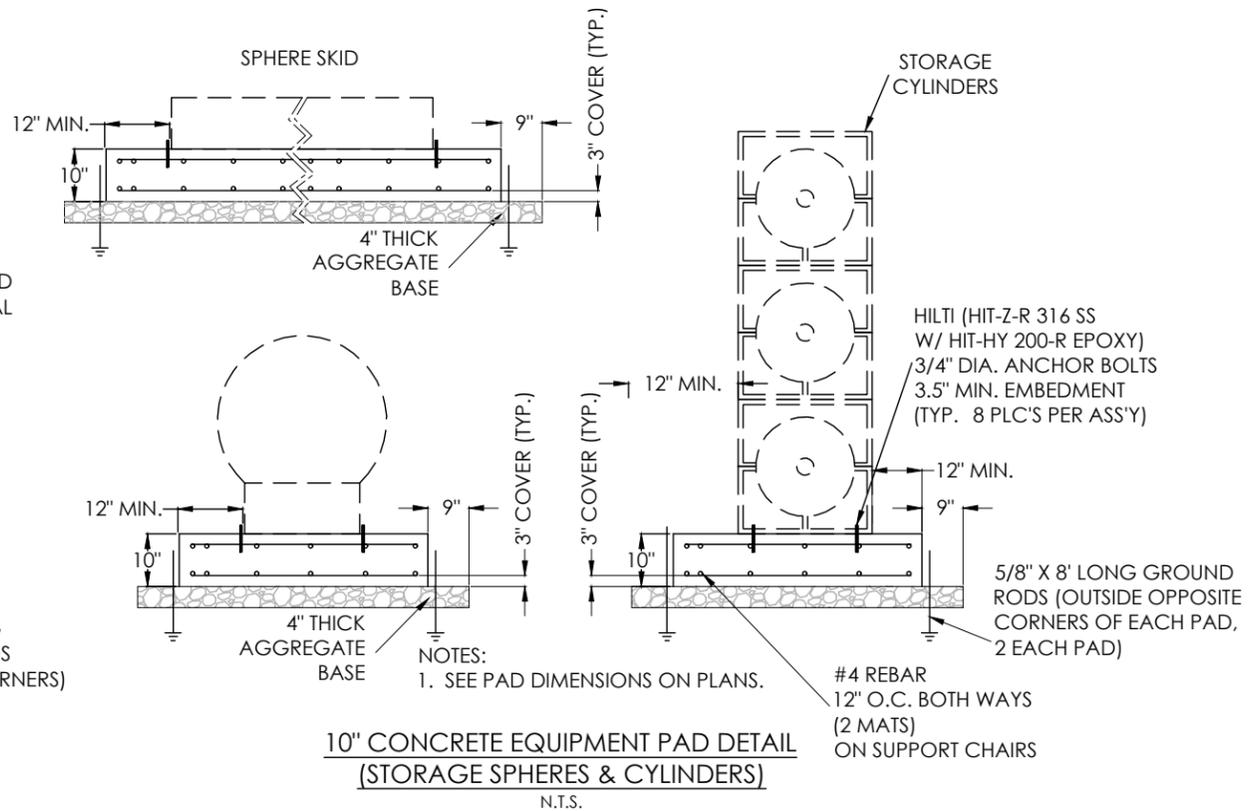
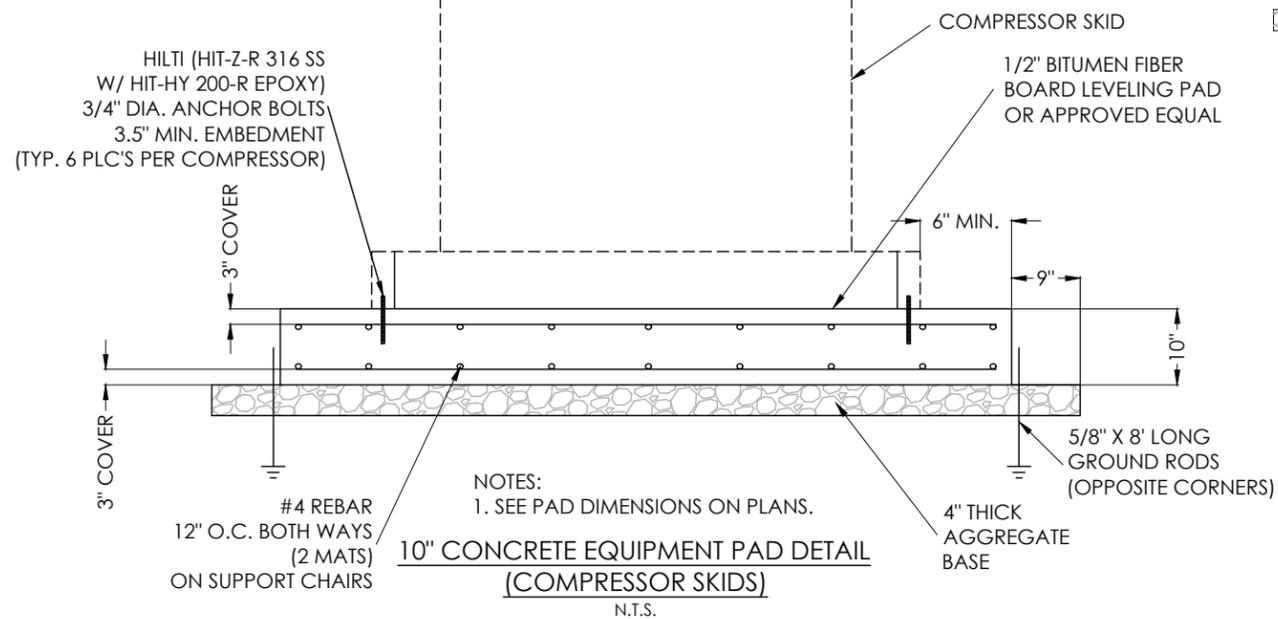
**GROUND MOUNTED SIGN  
WITH LED PRICE PANEL**  
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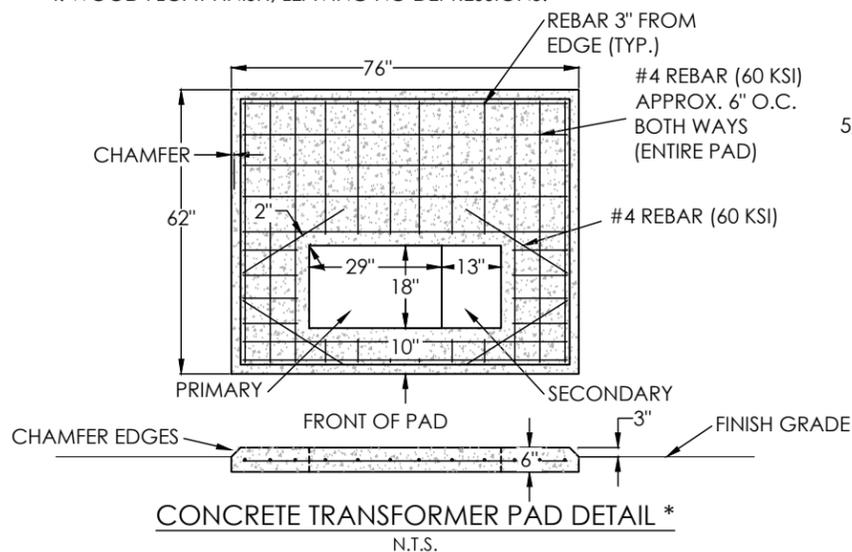
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NOTE:  
ALL EQUIPMENT IS TO BE MOUNTED/ANCHORED TO CONCRETE PADS ACCORDING TO MANUFACTURER'S SPECIFICATIONS & RECOMMENDATIONS.

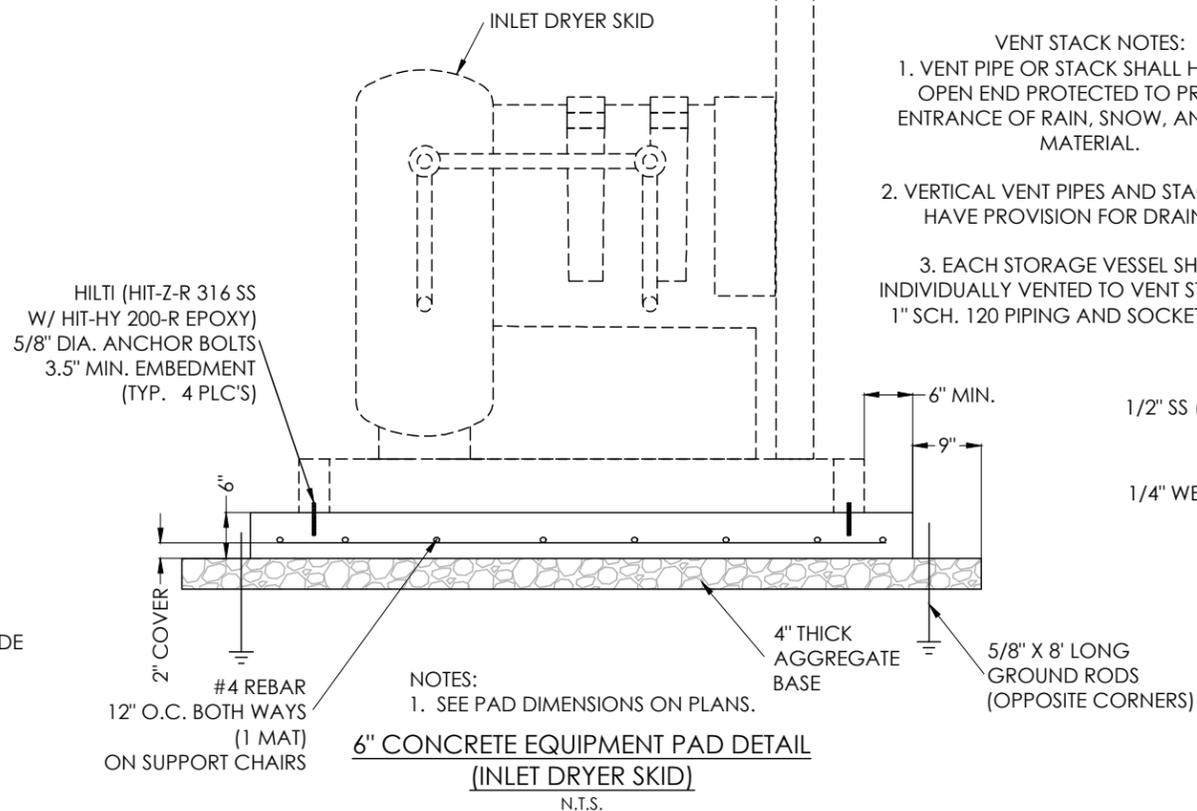


**TRANSFORMER CONCRETE PAD NOTES:**

1. CONCRETE TESTING: 4,000 PSI, 4% TO 6% ENTRAINED AIR, 3/4" MAXIMUM SIZE AGGREGATE
2. REINFORCING STEEL: ASTM-A615 GRADE 60, PLACE APPROX. 6" O.C. EACH WAY AND SECURELY TIED TOGETHER.
3. MINIMUM CONCRETE COVER REINFORCING STEEL: 2 INCHES UNLESS NOTED
4. WOOD FLOAT FINISH, LEAVING NO DEPRESSIONS.

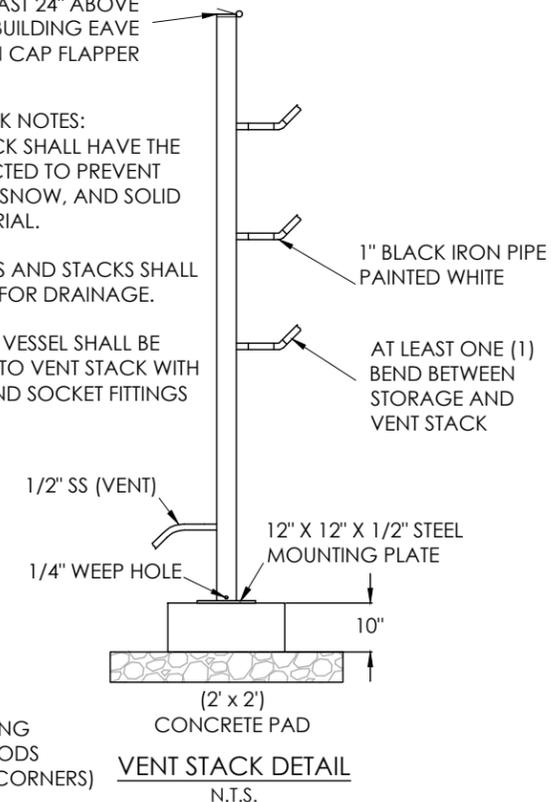


\* VERIFY WITH LOCAL ELECTRIC COMPANY ON ANY ADDITIONAL PAD REQUIREMENTS AND ORIENTATION



4" BLACK STEEL PIPE, PAINTED WHITE  
MINIMUM OF 10 FEET TALL,  
VENT SHALL BE AT LEAST 24" ABOVE ANY EQUIPMENT OR BUILDING EAVE WITH RAIN CAP FLAPPER

- VENT STACK NOTES:
1. VENT PIPE OR STACK SHALL HAVE THE OPEN END PROTECTED TO PREVENT ENTRANCE OF RAIN, SNOW, AND SOLID MATERIAL.
  2. VERTICAL VENT PIPES AND STACKS SHALL HAVE PROVISION FOR DRAINAGE.
  3. EACH STORAGE VESSEL SHALL BE INDIVIDUALLY VENTED TO VENT STACK WITH 1" SCH. 120 PIPING AND SOCKET FITTINGS



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KANSAS: E-1930  
ARKANSAS: 2097  
OKLAHOMA: 5937



8/12/20

JOHN H. BOLTE - PROFESSIONAL ENGINEER  
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KS LIC 14094 AR LIC 14310

PUBLIC ACCESS CNG STATION  
E.M.W. GAS ASSOCIATION  
614 U.S. Route 66 (W)  
MORIARTY, NM 87035  
EQUIPMENT PAD DETAILS

SURVEY BY: N/A PROJECT #: 20104  
DRAWN BY: TED DATE: 08/12/2020  
CHECKED BY: JHB SCALE: N.T.S.

PROJECT: PUBLIC CNG STATION

SHEET DESC: EQUIPMENT PAD DETAILS

SHEET: 9 OF: 27



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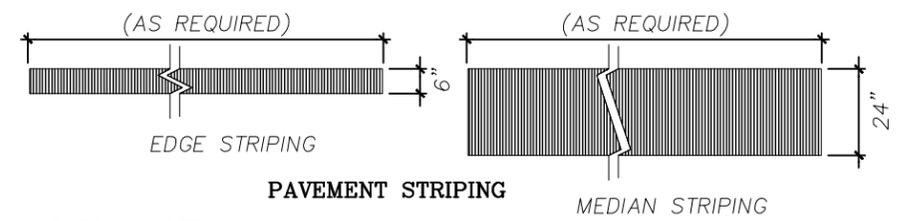
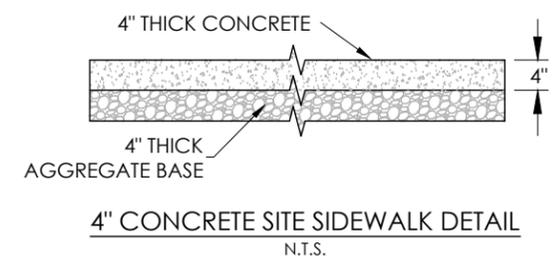
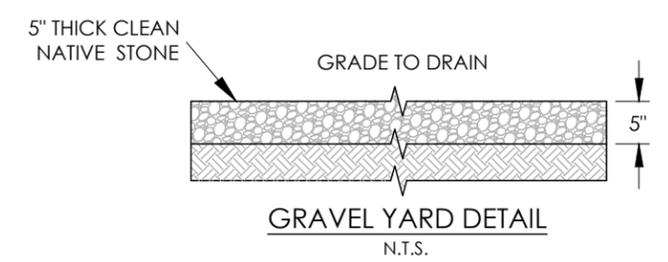
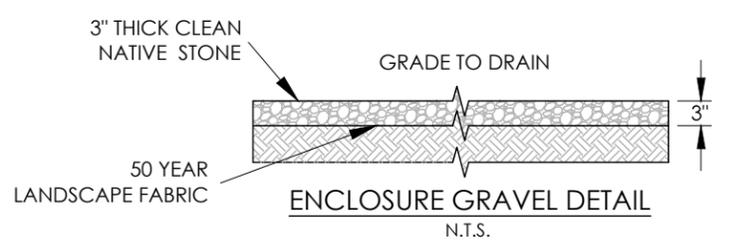
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PUBLIC ACCESS CNG STATION  
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 614 U.S. Route 66 (W)  
 MORIARTY, NM 87035  
 MISC CONSTRUCTION DETAILS

SURVEY BY: N/A PROJECT #: 20104  
 DRAWN BY: TED DATE: 08/12/2020  
 CHECKED BY: JHB SCALE: N.T.S.

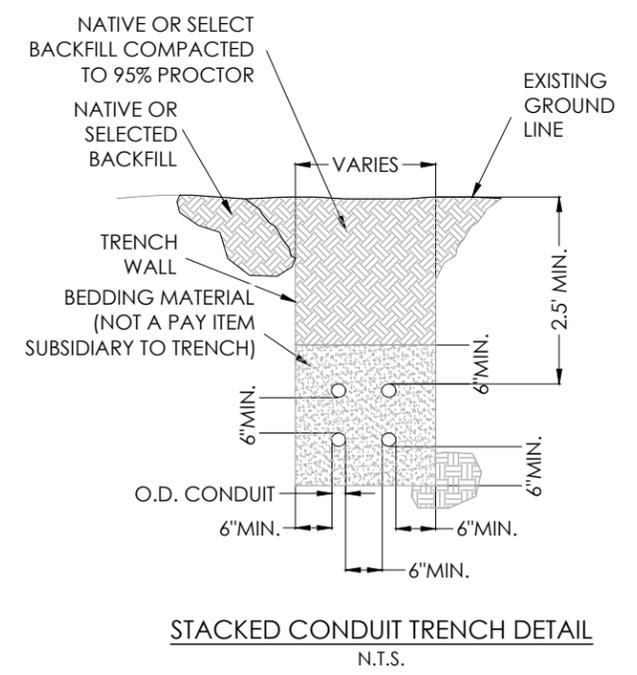
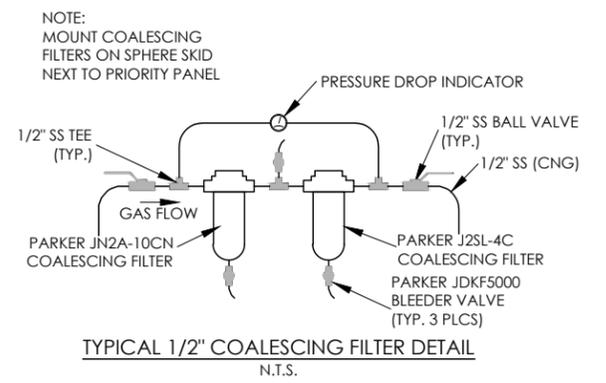
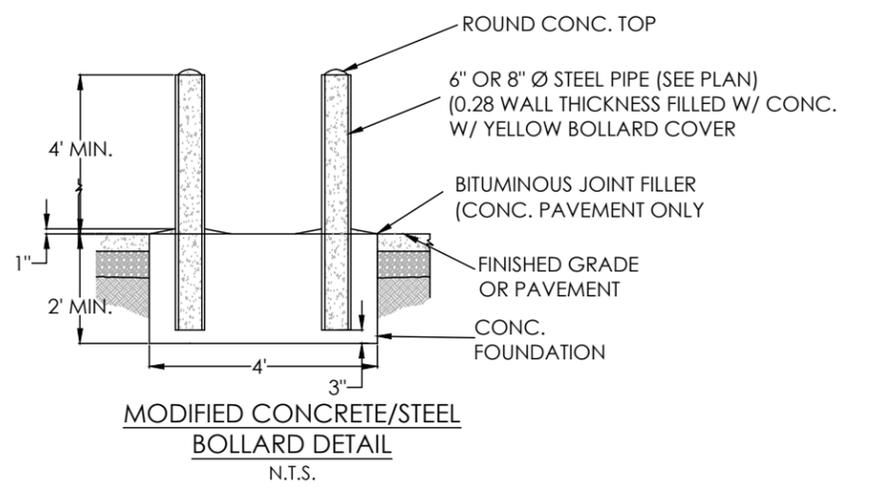
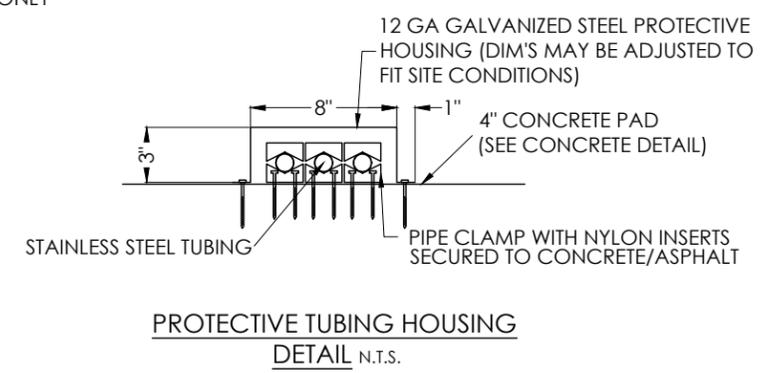
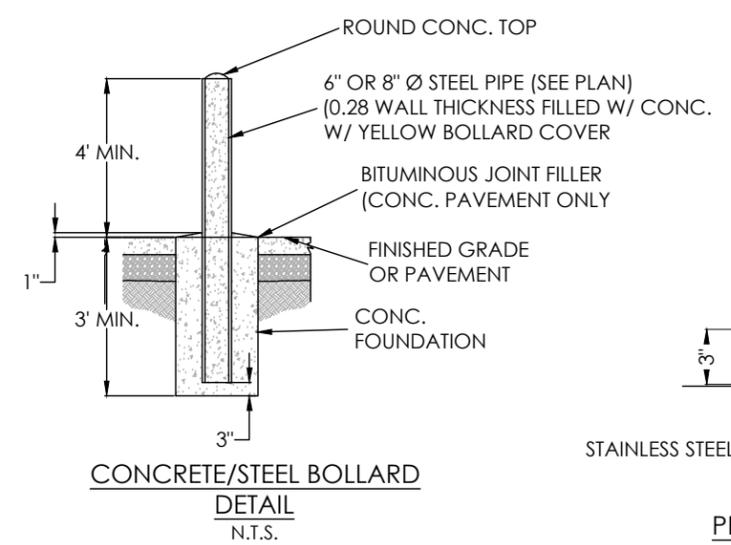
PROJECT: PUBLIC CNG STATION  
 SHEET DESC: MISC. CONSTRUCTION DTLS  
 SHEET: 10 OF: 27



GENERAL NOTES:

- ALL PAVEMENT MARKINGS FOR THE PARKING LOT SPACES AND DRIVES SHALL BE STRIPED AS SHOWN ON THE SITE CONSTRUCTION PLAN. PAVEMENT MARKINGS FOR PARKING SPACES SHALL BE YELLOW STRIPING (HIGH GRADE TRAFFIC PAINT), EXCEPT FOR THE ADA STALL SYMBOL, WHICH SHALL BE BLUE. PAVEMENT MARKINGS FOR CROSSWALK, ARROWS AND STOP LINES SHALL BE WHITE PAINT STRIPING. PAVEMENT MARKINGS FOR CROSSING ZONES SHALL BE YELLOW PAINT STRIPING.
- STENCILS AND TEMPLATES USED SHALL BE PROFESSIONALLY MADE TO INDUSTRY STANDARDS. "FREE HAND" PAINTING OF ARROWS, SYMBOLS OR WORDING SHALL NOT BE ALLOWED.
- PAVEMENT SURFACE SHALL BE FREE OF DIRT, SAND, GRAVEL, OIL AND OTHER FOREIGN MATTER.
- CONTRACTOR SHALL PROTECT ADJACENT CURBS, WALKS, FENCES AND OTHER ITEMS FROM RECEIVING PAINT.
- PAVEMENT MARKINGS SHALL BE STRAIGHT AND EVEN IN ACCORDANCE WITH PLAN.
- PAVEMENT MARKINGS SHALL BE APPLIED TO THE WIDTHS AND COLORS AS DETAILED IN PLANS.

PAVEMENT MARKING DETAILS



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PUBLIC ACCESS CNG STATION  
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MORIARTY, NM 87035  
INLET PIPING DETAILS

SURVEY BY: N/A PROJECT #: 20104  
DRAWN BY: TED DATE: 08/12/2020  
CHECKED BY: JHB SCALE: N.T.S.

PROJECT: PUBLIC CNG STATION

SHEET DESC: INLET PIPING DETAILS

SHEET: 11 OF: 27

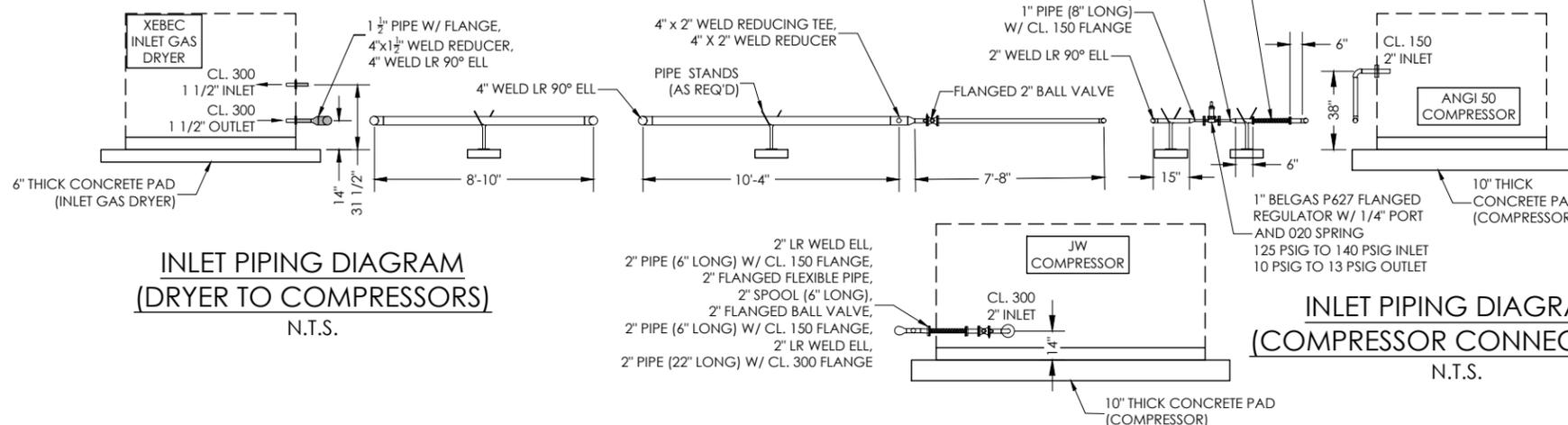
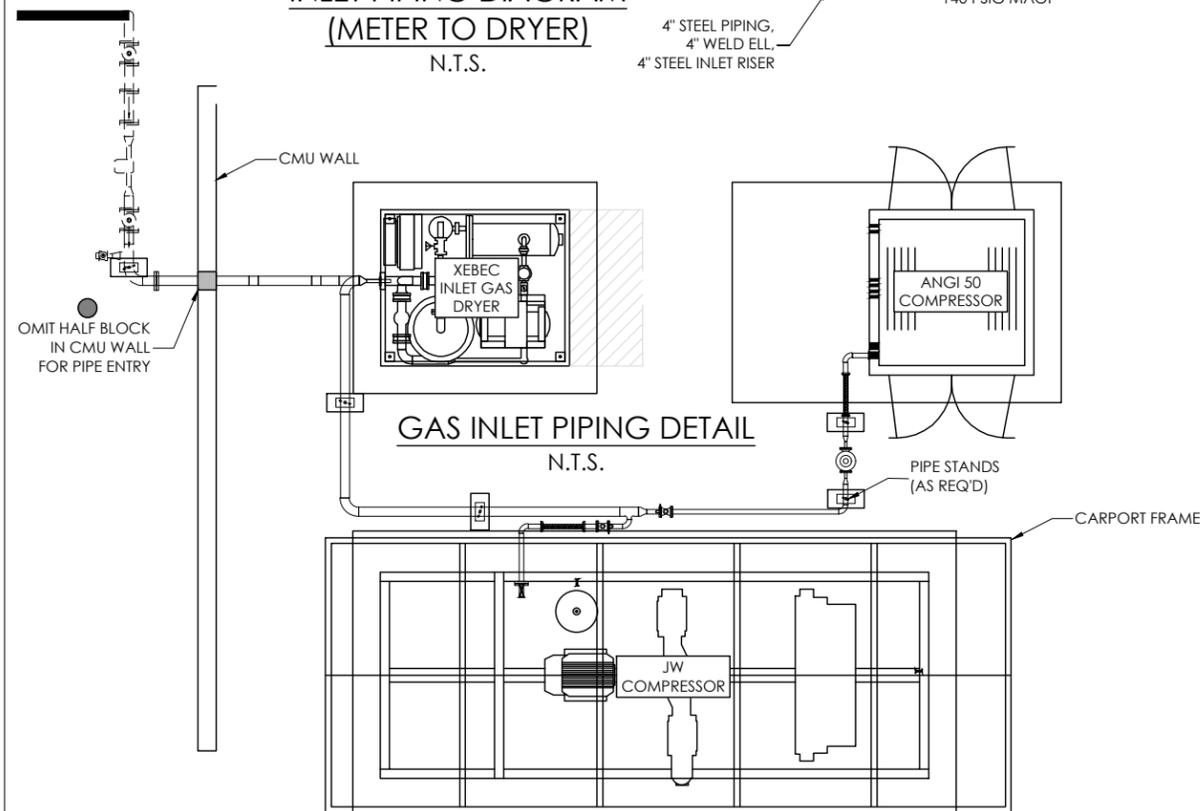
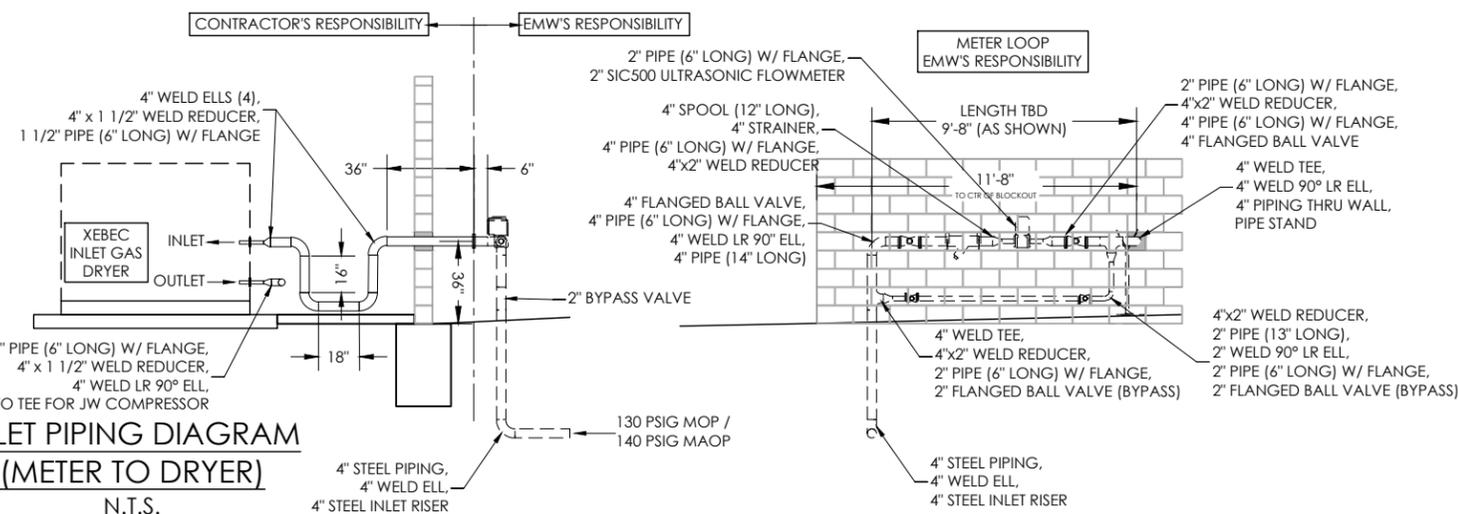
NOTE:  
QUANTITIES SHOWN ARE FOR CONVENIENCE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CALCULATE ALL MATERIALS NECESSARY FOR A COMPLETE PIPING SYSTEM.

BILL OF MATERIAL (INLET PIPING)	
QTY.	DESCRIPTION
30'	4" STEEL PIPE
15'	2" STEEL PIPE
2'	1 1/2" STEEL PIPE
2'	1" STEEL PIPE
2	2" CONICAL STRAINER - 80 MESH
2	2" FLANGED BALL VALVE WITH LOCK ON/OFF (NUT STYLE)
2	2" FLEX COUPLING W/ CL. 150 FLANGES
1	4"x2" WELD REDUCING TEE
6	4" L.R. WELD 90° ELL
5	2" L.R. WELD 90° ELL
2	2" CHECK VALVE
1	4" CLASS 300 FLANGE KITS
1	4" INSULATING KIT
1	4" X 2" WELD REDUCER
2	4" X 1 1/2" WELD REDUCER
2	2" X 1" WELD REDUCER
1	2" CL. 300 FLANGE KITS
7	2" CL. 150 FLANGE KITS
2	1 1/2" CL. 300 FLANGE KITS
2	1" CL. 150 FLANGE KITS
2	PRESSURE GAUGE (2" DIAL, LIQUID FILLED, 0-300PSI)
1	1" BELGAS P627 FLANGED REGULATOR W/ 1/4" PORT AND 020 SPRING 125 PSIG TO 140 PSIG INLET 10 PSIG TO 13 PSIG OUTLET
4	PIPE STANDS

\* SLIP-ON FLANGES ARE PREFERRED OVER WELD NECK FLANGES

NOTES:

- ABOVE GRADE 2" - 4" GAS PIPING SHALL BE API 5LA-35 GRADE, 0.154" MIN. WALL STEEL, PAINTED WHITE. (ALL PIPING PRIOR TO COMPRESSOR ONLY).
- PIPE SHALL BE WELDED, EXCEPT AS NOTED OR REQUIRED AND PRESSURE TESTED AS FOLLOWS:  
METER TO REGULATOR (UPSTREAM OF DRYER): 262.5 PSIG FOR 2 HOURS.  
REGULATOR TO ANGI COMPRESSOR: 100 PSIG FOR 2 HOURS.



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BILL OF MATERIAL (SIGNAGE)		
ITEM	QTY.	DESCRIPTION
1	9	HAZMAT SIGN (15" X 15" ALUMINUM)
2	5	DANGER NO SMOKING ( 10" X 14" ALUMINUM)
3	7	WARNING VIDEO SURVEILLANCE (14" X 10" ALUMINUM)
4	4	SHUT OFF ENGINE (14" X 10" ALUMINUM)
5	4	STOP MOTOR (18" X 10" ALUMINUM)
6	8	CNG EMERGENCY SHUT OFF (7" X 10" ALUMINUM)
7	4	NOTICE AUTHORIZED PERSONAL (10" X 14" ALUMINUM)
8	4	WARNING NO SMOKING (10" X 14" ALUMINUM)
9	8	SIDE MOUNT 2- SIDED FIRE EXTINGUISHER (18" X 5" ALUMINUM)
-	8	20# TYPE B-C FIRE EXTINGUISHERS AND CABINETS
10	2	LED PRICE SIGN
11	7	IN CASE OF FIRE CALL 911 (10" X 14" ALUMINUM)

STANDARD SIGN CONSTRUCTION:  
SUBSTRATE:  
0.040" ALUMINUM, WHITE ENAMEL  
COATED (BOTH SIDES)

PRINTING LAYER:  
4.0 MIL VINYL WITH PERMANENT  
ACRYLIC ADHESIVE  
UV STABLE INK

LAMINATE:  
2.5 MIL PVC FILM (OPTICALLY CLEAR)  
\*SCRATCH RESISTANT  
\*CHEMICAL RESISTANT  
\*UV RESISTANT



LOCATE ON ENCLOSURE  
WALLS AND GATES  
SIGN CONSTRUCTION:  
15" X 15" ALUMINUM  
DIAMOND



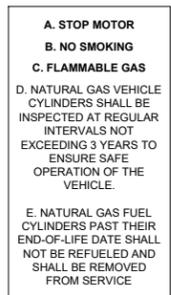
LOCATE IN EQUIP. ENCLOSURE  
WALLS AND FENCE  
SIGN CONSTRUCTION:  
10" X 14" ALUMINUM



LOCATE ON CANOPY  
COLUMNS/EQUIPMENT ENCLOSURE  
SIGN CONSTRUCTION:  
14" X 10" ALUMINUM



LOCATE ON THE DISPENSER  
OR CANOPY POST  
SIGN CONSTRUCTION:  
14" X 10" ALUMINUM



LOCATE ON DISPENSER OR CANOPY  
SUPPORTS (ALT. LOCATION)  
SIGN CONSTRUCTION:  
18" X 10" ALUMINUM  
1/2" BLACK LETTERS ON WHITE  
BACKGROUND ITEMS A. B. & C BOLD.



LOCATE AT EACH ESD DEVICE  
SIGN CONSTRUCTION: 7" X 10"  
ALUMINUM RED LETTERS WITH BLACK  
ARROW ON WHITE BACKGROUND



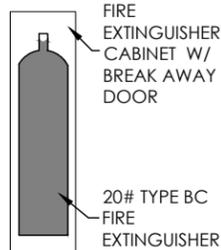
LOCATE ON ENCLOSURE GATE  
SIGN CONSTRUCTION:  
10" X 14" ALUMINUM



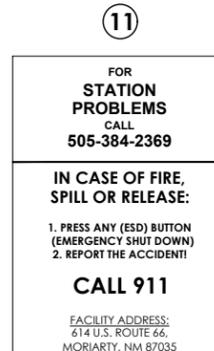
LOCATE ON OUTSIDE OF ENCLOSURE  
SIGN CONSTRUCTION:  
10" X 14" ALUMINUM  
1" MIN. RED LETTERS ON WHITE  
BACKGROUND RED BORDER



LOCATE ON CANOPY COLUMN  
ABOVE EXTINGUISHER  
SIGN CONSTRUCTION:  
18" X 5" ALUMINUM SIDE MOUNT -  
2 SIDED SIGN



LOCATE ON :  
GROUND MOUNT SIGN  
SIGN CONSTRUCTION:  
BY SUBMITTAL



NOTE:  
OWNER TO VERIFY  
CORRECT ADDRESS  
AND PHONE NUMBER

LOCATE ON :  
CANOPY SUPPORTS (4),  
ENCLOSURE FENCE ESD POST

SIGN CONSTRUCTION:  
14" X 10" ALUMINUM, WHITE BACKGROUND

3/4" BOLD RED FONT:  
1. STATION PROBLEMS  
2. 505-384-2369  
3. IN CASE OF FIRE, SPILL OR RELEASE:  
1/2" STANDARD BLACK FONT:  
1. FOR  
2. CALL  
3. PRESS ANY (ESD) BUTTON  
4. (EMERGENCY SHUT DOWN)  
5. REPORT THE ACCIDENT  
1" BOLD RED FONT: "CALL 911"  
1/2" STANDARD BLACK UNDERLINED FONT: FACILITY ADDRESS:  
1/2" STANDARD BLACK FONT:  
"614 U.S. ROUTE 66, MORIARTY, NM 87035"

**NATURAL GAS - COMPRESSED**  
LOCATE ON OUTSIDE OF STORAGE VESSEL SIGN  
CONSTRUCTION: PAINT  
3" MIN. DARK BLUE OR BLACK LETTERS



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PUBLIC ACCESS CNG STATION  
E.M.W. GAS ASSOCIATION  
614 U.S. Route 66 (W)  
MORIARTY, NM 87035  
CNG & SAFETY SIGN DETAILS

SURVEY BY: N/A PROJECT #: 20104  
DRAWN BY: TED DATE: 08/12/2020  
CHECKED BY: JHB SCALE: N.T.S.

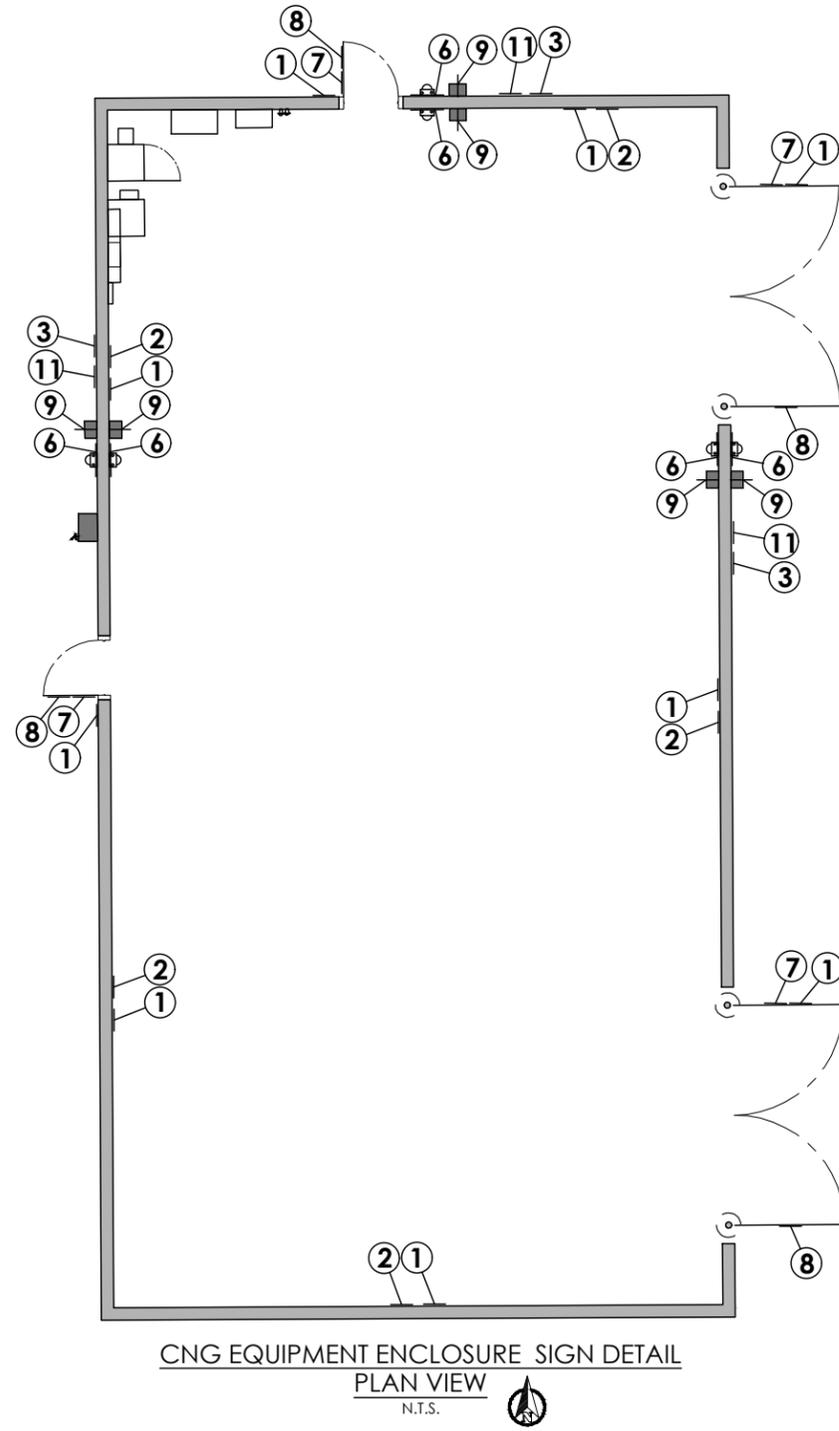
PROJECT: PUBLIC CNG STATION

SHEET DESC: CNG & SAFETY SIGN DTLS

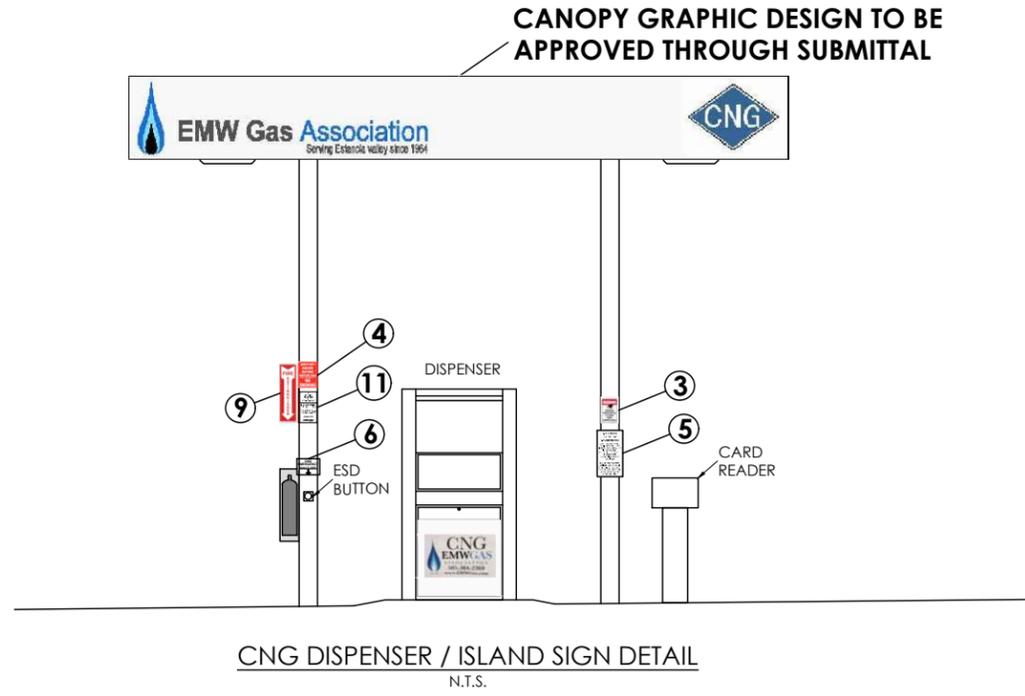
SHEET: 12 OF 27

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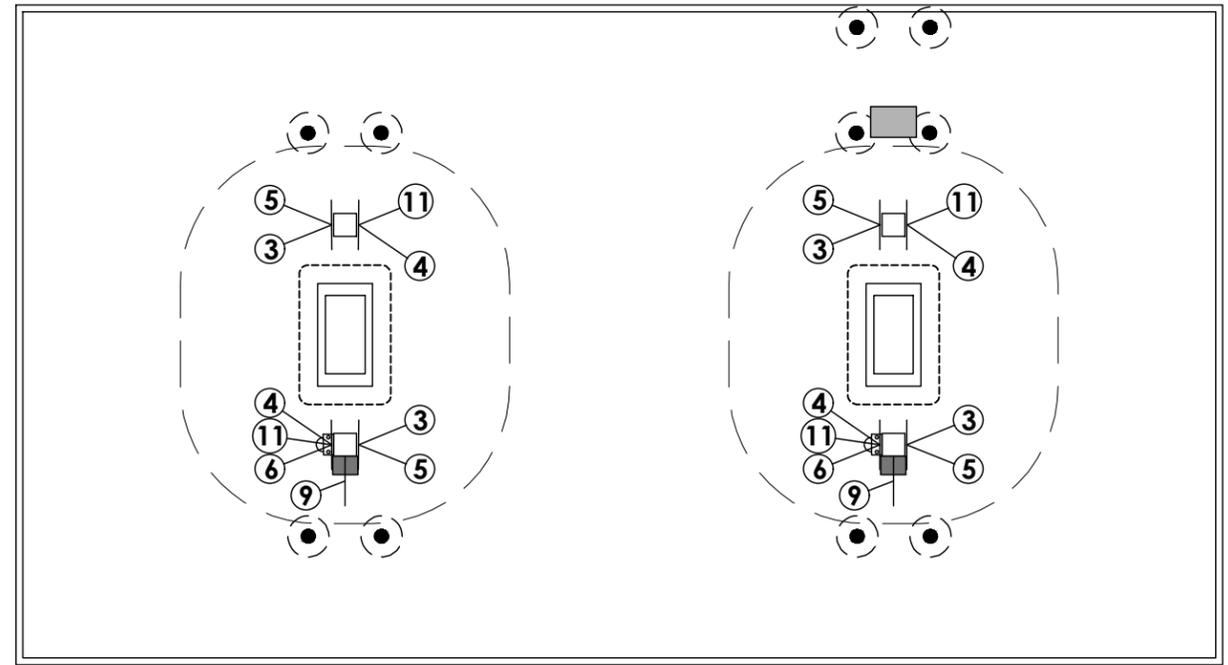
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CNG EQUIPMENT ENCLOSURE SIGN DETAIL  
PLAN VIEW  
N.T.S.



CNG DISPENSER / ISLAND SIGN DETAIL  
N.T.S.



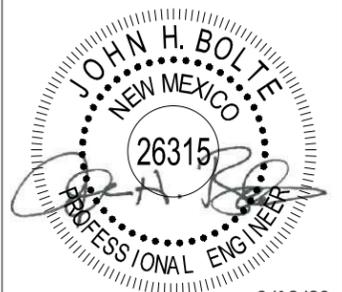
CNG DISPENSER / ISLAND SIGN DETAIL  
PLAN VIEW  
N.T.S.

CANOPY GRAPHIC DESIGN TO BE APPROVED THROUGH SUBMITTAL



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SIGN PLACEMENT AND LAYOUT

SURVEY BY: N/A PROJECT #: 20104  
DRAWN BY: TED DATE: 08/12/2020  
CHECKED BY: JHB SCALE: N.T.S.

PROJECT: PUBLIC CNG STATION

SHEET DESC: SIGN LAYOUT

SHEET: 13 OF 27

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 NECESSARY FOR A COMPLETE ELECTRICAL SYSTEM.

\* CNMEC

ELECTRICAL EQUIPMENT - BILL OF MATERIALS		
ITEM	QTY	DESCRIPTION OF ITEMS
①	1	PAD MOUNTED TRANSFORMER (INSTALLED BY UTILITY COMPANY) *
②	1	SAFETY SWITCH, (AS REQUIRED BY UTILITY COMPANY) *
③	1	METER BASE - WITH BYPASS LEVER (FURNISHED BY UTILITY COMPANY) *
④	1	METER (FURNISHED BY UTILITY COMPANY) *
⑤	20	5/8" X 8" COPPER CLAD GROUND RODS
⑥	1	PANELBOARD, 3φ, 4W, 65KA, 400A, 480V, 38X BOX (36" x 73"), EATON NO. PRL4B W/ STANDARD LOCK & KEY MOD 3 NEMA 3R, MOD 16 PADLOCKABLE 400A HKD MAIN, MOD 35 SURGE (LIGHTNING) ARRESTER INCLUDES THE FOLLOWING BREAKERS WITH PADLOCKABLE HANDLES: (1) KD 3-300A 35KA, (1) KD 3-200A 35KA, (1) FD 3-30A 35KA, (1) FD 2-60A 35KA
⑦	1	EATON TYPE EPT, ENERGY EFFICIENT TRANSFORMER 75 KVA 480 VOLTS TO 208/230 VOLTS (245 FRAME)
⑧	1	EATON TYPE EP, ENERGY EFFICIENT TRANSFORMER 25 KVA 480 VOLTS TO 240/120 VOLTS (FR182 FRAME)
⑨	1	PANELBOARD, 1φ, 3W, 18KA, 200A, 240/120V, 18X BOX (20" x 36"), EATON NO. PRL1α W/ STANDARD LOCK & KEY MOD 3 NEMA 3R, MOD 16 PADLOCKABLE 150A FDB MAIN, INCLUDES THE FOLLOWING BREAKERS: (1) QBHW 2P-20A, (5) QBHW 1P-20A, (5) QBHW 1P-15A
⑩	1	RACEWAY NEMA 3R (8" X 8" X 60")
⑪	1	BLACKBOX - CLIMATECAB NEMA 12 WALLMOUNT CABINET (24" CUBE) W/ 800-BTU AC - 12U, SINGLE HINGED
⑫	1	OUTLET, 20A QUADPLEX 115V (INSTALLED INSIDE COMM. CABINET)
⑬	1	OUTLET, 20A DUPLEX GFI OUTDOOR RATED WITH WEATHERPROOF ENCLOSURE
⑭	1	INTERMATIC (MODEL # ET8000) (120V) LIGHTING CONTROL PANEL W/ ASTRONOMIC TIMER (SITE & CANOPY LIGHTS)
⑮	2	SWITCH, 20A SINGLE POLE OUTDOOR RATED WITH METAL BOX & FACEPLATE (& OUTDOOR COVER)
⑯	3	CHAMP CPMV SERIES LED (WALL PACK) (MODEL# CPMV 5L W H - UNV1 S903) OR EQUAL (HAZARDOUS AREA)
⑰	4	LUMARK NAVION SERIES LED (SITE/AREA LIGHTS) (MODEL# NAV-AE-04-E-UNV-SL4-10K-AI-HSS) OR EQUAL
⑱	1	SECURITY CAMERA SYSTEM W/ NVR & 8 CAMERAS, UPS, (INCL. INTERNET ROUTER, MODEM, AND SWITCHES AS REQ'D)
⑲	1	ESD CONTROL PANEL (SEE SEPARATE BILL OF MATERIALS)
⑳	8	ESD PUSH BUTTONS AND ENCLOSURES (SEE SEPARATE BILL OF MATERIALS)
㉑	**	CONDUITS, FITTINGS, CONNECTIONS, TRENCHING (SEE CONDUIT & CABLING SCHEDULE)
㉒	**	ELECTRICAL CABLING (SEE CONDUIT & CABLING SCHEDULE)
㉓	**	COMMUNICATION & CONTROL CABLING (SEE CONDUIT & CABLING SCHEDULE)
㉔	**	8 LSI LED CANOPY LIGHTS - LEGACY (CRU) (MODEL# CRU-SC-LED-HO-40-UE-WHT) (SUPPLIED W/ CANOPY BY ARNING)

NOTE: ELECTRICAL CONDUITS & WIRING SHOWN MAY BE USED FOR BIDDING PURPOSES. FINAL LOCATIONS, QUANTITIES, WIRE TYPE, WIRE SIZE, AND TERMINATION DETAILS TO BE DETERMINED DURING CONSTRUCTION BY WIRING DIAGRAM SUPPLIED BY EQUIPMENT MANUFACTURER TO MEET THE REQUIREMENTS FOR THE INSTALLATION OF SAID EQUIPMENT. ALL WIRING AND CONDUIT SHALL BE APPROVED BY SUBMITTAL TO ENGINEER BEFORE ORDERED AND INSTALLED. ESD SYSTEMS SHALL BE WIRED SO THAT IF ANY ESD BUTTON IS ENGAGED THE ESD SYSTEM WILL BE ACTIVATED. TERMINATION AND CONNECTION OF ESD SYSTEM CABLING TO INDIVIDUAL PIECES OF EQUIPMENT SHALL BE THE CONTRACTOR RESPONSIBILITY AND SHALL BE COORDINATED WITH THE EQUIPMENT MANUFACTURER. IF ANY ELECTRICAL DISCREPANCIES SHOULD ARISE OR IF PLANS CONFLICT WITH CODE ENFORCEMENT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

GENERAL NOTES

- BELOW GROUND ELECTRICAL CONDUITS TO BE RIGID, UNLESS PRE-APPROVED BY THE ENGINEER.
- ABOVE GROUND ELECTRICAL CONDUITS TO BE GALV. RIGID OR INT. METALLIC.
- ALL CONDUIT RUNS SHALL BE PLACED PRIOR TO CONSTRUCTION.
- ALL VACANT CONDUIT RUNS SHALL BE INSTALLED AND CAPPED FOR FUTURE CONNECTIONS.
- CONDUCTORS TO BE COPPER W/ THHN OR THHW INSULATION.
- AREA WITHIN 15 FEET OF COMPRESSOR AND ANCILLARY EQUIPMENT IS CLASSIFIED AS CLASS 1, DIVISION 2 GROUP D AND REQUIRES APPROPRIATE CONDUIT AND SEALS.
- EQUIPMENT & CONDUIT LOCATIONS ON ELECTRICAL WALL ARE APPROXIMATE. FIELD ADJUST AS REQUIRED.
- LAYOUT SHOWN IS APPROXIMATE, LENGTHS OF CONDUIT RUNS AND FITTINGS USED MAY BE ADJUSTED TO MEET SITE CONDITIONS.
- CONDUITS FOR STAINLESS STEEL TUBING TO BE MDPE.
- ALL BRANCH CIRCUITS & FEEDERS SHALL CARRY A GROUND WIRE.
- ALL COMMON NEUTRAL CIRCUITS REQUIRE HANDLE TIE/COMMON TRIP BREAKER. IF COMMON TRIP BREAKER IS NOT USED, INDIVIDUAL NEUTRALS SHALL BE RUN.

NATIONAL ELECTRICAL CODE ARTICLE 501.15 (A)(4) & (B)(2)

**(A)(4) CLASS 1, DIVISION 1 BOUNDARY.** IN EACH CONDUIT RUN LEAVING A CLASS 1, DIVISION 1 LOCATION, THE SEALING FITTING SHALL BE PERMITTED ON EITHER SIDE OF THE BOUNDARY OF SUCH LOCATION WITHIN 10 FEET OF THE BOUNDARY AND SHALL BE DESIGNED AND INSTALLED SO AS TO MINIMIZE THE AMOUNT OF GAS OR VAPOR WITHIN THE DIVISION 1 PORTION OF THE CONDUIT FROM BEING COMMUNICATED TO THE CONDUIT BEYOND THE SEAL. EXCEPT FOR LISTED EXPLOSION PROOF REDUCERS AT THE CONDUIT SEAL, THERE SHALL BE NO UNION, COUPLING, BOX, OR FITTING BETWEEN THE CONDUIT SEAL AND THE POINT AT WHICH THE CONDUIT LEAVES THE DIVISION 1 LOCATION.  
 (SEE EXCEPTION NO. 1 AND EXCEPTION NO. 2 IN CODE)

**(B)(2) CLASS 1, DIVISION 2 BOUNDARY.** IN EACH CONDUIT RUN PASSING FROM A CLASS 1, DIVISION 2 LOCATION INTO AN UNCLASSIFIED LOCATION, THE SEALING FITTING SHALL BE PERMITTED ON EITHER SIDE OF THE BOUNDARY OF SUCH LOCATION WITHIN 10 FEET OF THE BOUNDARY. RIGID METAL CONDUIT OR THREADED STEEL INTERMEDIATE METAL CONDUIT SHALL BE USED BETWEEN THE SEALING FITTING AND THE POINT AT WHICH THE CONDUIT LEAVES THE DIVISION 2 LOCATION, AND A THREADED CONNECTION SHALL BE USED AT THE SEALING FITTING. EXCEPT FOR LISTED REDUCERS AT THE CONDUIT SEAL, THERE SHALL BE NO UNION, COUPLING, BOX, OR FITTING BETWEEN THE CONDUIT SEAL AND THE POINT AT WHICH THE CONDUIT LEAVES THE DIVISION 2 LOCATION. CONDUITS SHALL BE SEALED TO MINIMIZE THE AMOUNT OF GAS OR VAPOR WITHIN THE DIVISION 2 PORTION OF THE CONDUIT FROM BEING COMMUNICATED TO THE CONDUIT BEYOND THE SEAL. SUCH SEALS SHALL NOT BE REQUIRED TO BE EXPLOSION PROOF BUT SHALL BE IDENTIFIED FOR THE PURPOSE OF MINIMIZING PASSAGE OF GASES UNDER THE NORMAL OPERATING CONDITIONS AND SHALL BE ACCESSIBLE.  
 (SEE EXCEPTION NO. 1, EXCEPTION NO. 2, EXCEPTION NO. 3, AND EXCEPTION NO. 4 IN CODE)

THE FOLLOWING TAGS SHOULD BE PLACED ON EQUIPMENT:

TAG:	DESCRIPTION:
PB#1	MAIN PANEL BOARD #1
PB#2	PANELBOARD #2
MCP-ANGI	MOTOR CONTROL PANEL - ANGI
ESD J-BOX	ESD CONTROL PANEL #1
LC #1	LIGHT CONTROL/TIMER

**BASE BID INSTALLATION OF EQUIPMENT**  
 (PROVIDED BY EMW GAS ASSOC.)

- 1 - INLET GAS DRYER (XEBEC MODEL# STR18NGX-1.5S-600A480)
- 1 - 3-STAGE 100 HP (JW POWER) CNG COMPRESSOR SKID
- 1 - 4-STAGE 50 HP (ANGI ENERGY) CNG COMPRESSOR SKID (INCLUDES ALTITUDE KIT, SLAVE PLC, SPARE PARTS KIT, SOFT START MOTOR CONTROL PANEL)
- 1 - SPHERE SKID W/ 3 - 48" STORAGE SPHERES (INCLUDES PRIORITY ESD VALVES/PLUMBING ON SPHERE SKID (JW POWER)
- 1 - SPHERE SKID W/ 3 - 48" STORAGE SPHERES (JW POWER)
- 3 - ASME 20" x 24" STORAGE CYLINDERS (CP INDUSTRIES)
- 1 - GREENFIELD CNG DISPENSER (NON X-PURGE - TO BE CONVERTED)
- 1 - TGT 7203-8 NGC50 CNG DISPENSER AND TUB
- 1 - FUELMaster FMU 2550 CARD READER
- 1 - INLET GAS DRYER (XEBEC MODEL# STR18NGX)

**ALTERNATE BID INSTALLATION OF EQUIPMENT**  
 (PROVIDED BY EMW GAS ASSOC.)

- 3 - 48" CNG STORAGE SPHERES

**BASE BID EQUIPMENT**  
 (PROVIDED BY CONTRACTOR)

- 2 - COALESCING FILTER ASSEMBLIES
- 1 - DISPENSER TUB FOR GREENFIELD DISPENSER



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PUBLIC ACCESS CNG STATION  
 E.M.W. GAS ASSOCIATION  
 614 U.S. Route 66 (W)  
 MORIARTY, NM 87035  
 ELECTRICAL - BILL OF MATERIALS

SURVEY BY: N/A PROJECT #: 20104  
 DRAWN BY: TED DATE: 08/12/2020  
 CHECKED BY: JHB SCALE: N.T.S.

PROJECT: PUBLIC CNG STATION

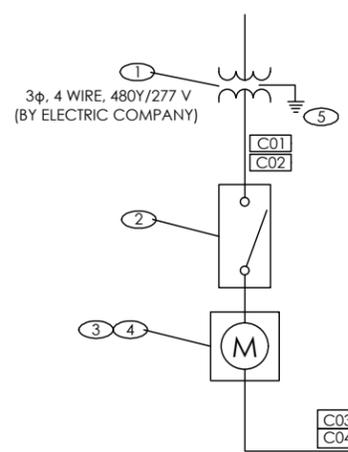
SHEET DESC: ELECTRICAL - BOM

SHEET: 14 OF 27

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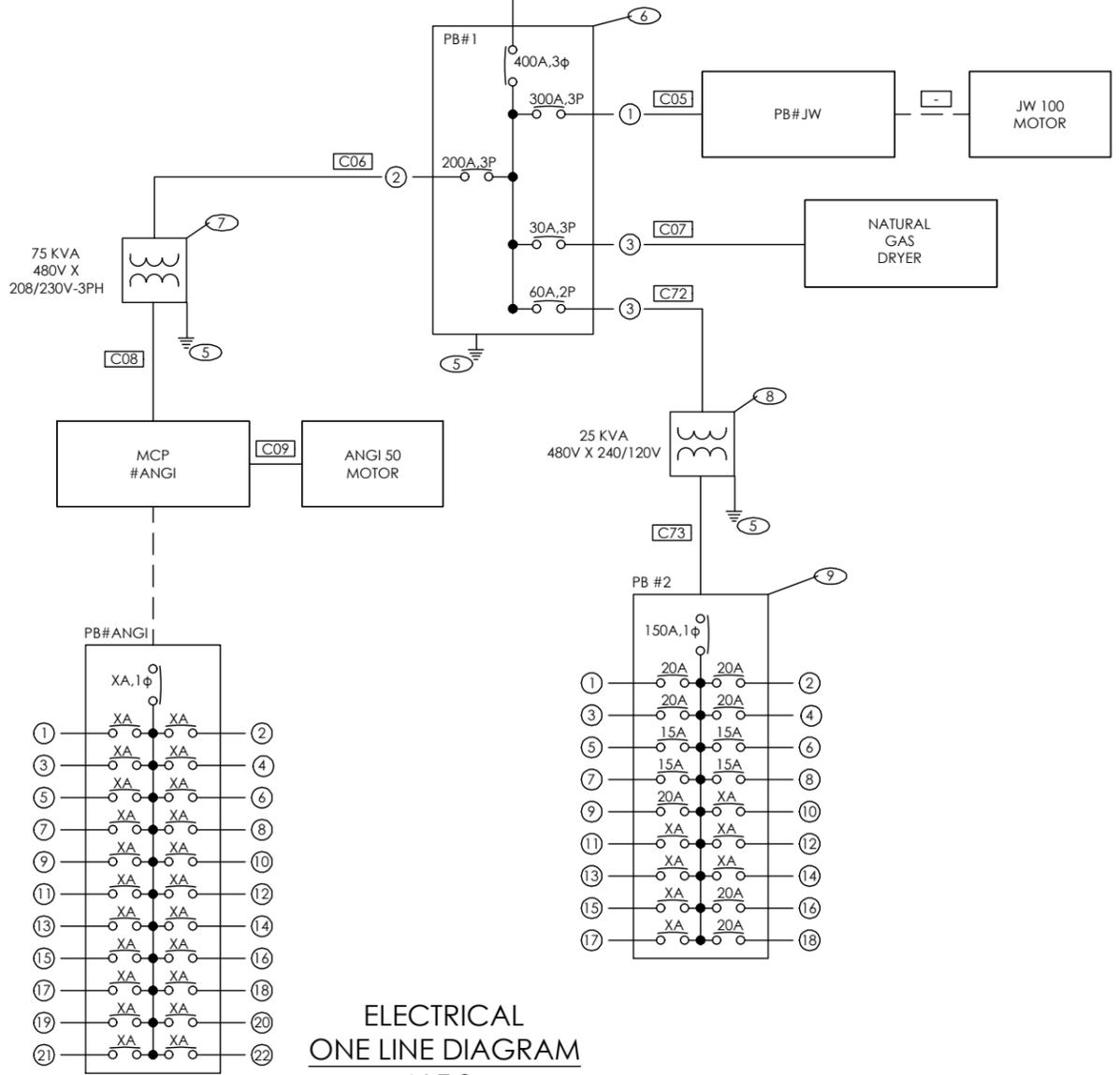
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POWER  
PRIMARY  
ELECTRIC  
COMPANY



- LEGEND**
- (XX) ITEM NUMBER ALIGNS WITH BOM ON SHEET 14
  - (X) PANELBOARD CIRCUIT NUMBER
  - [XX] CONDUIT NUMBER (SEE CONDUIT SCHEDULE FOR SIZE AND WIRE FILL)
  - (1) PAD MOUNTED TRANSFORMER (BY LOCAL ELECTRIC COMPANY)
  - (2) SAFETY SWITCH (AS REQUIRED BY LOCAL ELECTRIC COMPANY)
  - (3) METER (BY LOCAL ELECTRIC COMPANY)
  - (4) METER BASE (BY LOCAL ELECTRIC COMPANY)
  - (5) COPPER CLAD GROUND RODS
  - (6) 36" X 73" PANELBOARD (PB #1)
  - (7) 75 kVA TRANSFORMER 480V X 230V 3 PHASE
  - (8) 25 kVA TRANSFORMER 480V X 240/120V
  - (9) 20" X 36" PANELBOARD (PB #2)

**NOTE:**  
1. ELECTRICAL DESIGN AND INSTALLATION SHALL COMPLY TO 2014 NATIONAL ELECTRICAL CODE.  
2. ALL ELECTRICAL EQUIPMENT SHALL BE UL/NRTL LISTED PER CODE.



**ELECTRICAL  
ONE LINE DIAGRAM  
N.T.S.**

PB #1						
400 AMP MAIN		65K AIC		SURFACE MOUNT BOTTOM FEED NEMA 3R		
CKT	BKR	DESCRIPTION	400A	DESCRIPTION	BKR	CKT
1	300	PB#JW		TRANSFORMER - MCP #ANGI	200	2
		PB#JW		TRANSFORMER - MCP #ANGI		
		PB#JW		TRANSFORMER - MCP #ANGI		
3	30	INLET DRYER		TRANSFORMER - PB #2	60	4
		INLET DRYER		TRANSFORMER - PB #2		
		INLET DRYER		TRANSFORMER - PB #2		

PB #2							
200 AMP MAIN		65K AIC		SURFACE MOUNT BOTTOM FEED			
CKT	BKR	DESCRIPTION	200A	DESCRIPTION	BKR	CKT	
1	20	QUAD-PLEX OUTLET IN COMM.		ESD PANEL	20	2	
3	20	DUPLEX OUTLET #1		LIGHT CONTROLLER	20	4	
5	15	GROUND MOUNT SIGN		EQUIPMENT LIGHTS - (W) WALL	15	6	
7	15	SPARE		EQUIPMENT LIGHTS - (N&E) WALLS	15	8	
9	20	SPARE		SPARE	15	10	
11							12
13							14
15					A/C CLIMATE BOX	20	16
17					A/C CLIMATE BOX		18

PB #ANGI							
AS INSTALLED IN MCP #ANGI							
CKT	BKR	DESCRIPTION	XA	DESCRIPTION	BKR	CKT	
*	15	ANGI COMP. CONTROL POWER				*	
*	15	MASTER CONTROL PANEL					*
*	15	SLAVE CONTROL PANEL					*
*	20	UPS PANEL 120V POWER					*
*	15	ANGI COMP. ENCLOSURE LIGHTING					*
*	15	PRIORITY PANEL					*
*	15	DISPENSER #1					*
*	15	DISPENSER #2					*
*	15	FUEL MGMT #1					*
*	15	FUEL MGMT #2					*
*	15	ANGI COMP. OIL HEATER					*
*	15	SPARE					*
*	15	SPARE					*

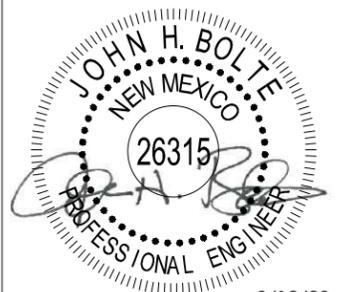
\* CIRCUITS ALREADY SETUP IN ANGI MSP (ORDER UNKNOWN)

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**PUBLIC ACCESS CNG STATION  
E.M.W. GAS ASSOCIATION  
614 U.S. Route 66 (W)  
MORIARTY, NM 87035  
ELECTRICAL - ONE-LINE DIAGRAM**

SURVEY BY: N/A PROJECT #: 20104  
DRAWN BY: TED DATE: 08/12/2020  
CHECKED BY: JHB SCALE: N.T.S.

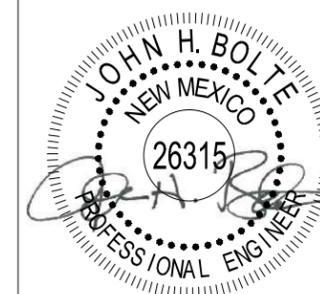
PROJECT: PUBLIC CNG STATION  
SHEET DESC: ELEC. ONE-LINE DIAGRAM  
SHEET: 15 OF 27



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PUBLIC ACCESS CNG STATION  
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ELECTRICAL - ESD CTRL PANEL BOM

SURVEY BY: N/A PROJECT #: 20104  
DRAWN BY: TED DATE: 08/12/2020  
CHECKED BY: JHB SCALE: N.T.S.

PROJECT: PUBLIC CNG STATION

SHEET DESC: ELEC. ESD PANEL BOM

SHEET: 16 OF 27

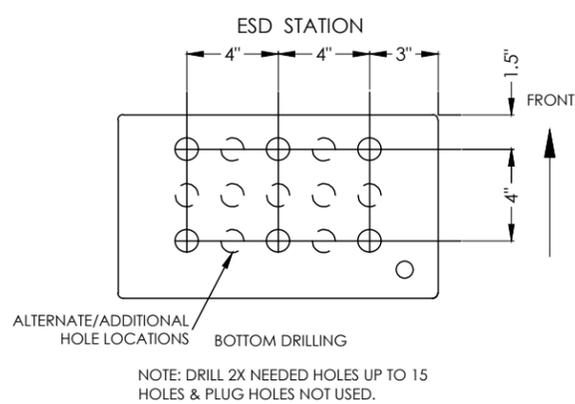
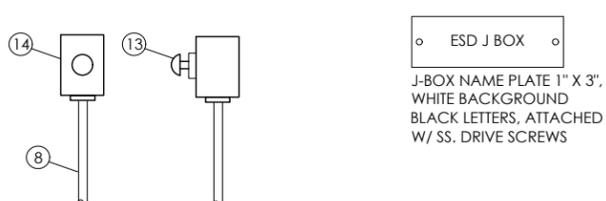
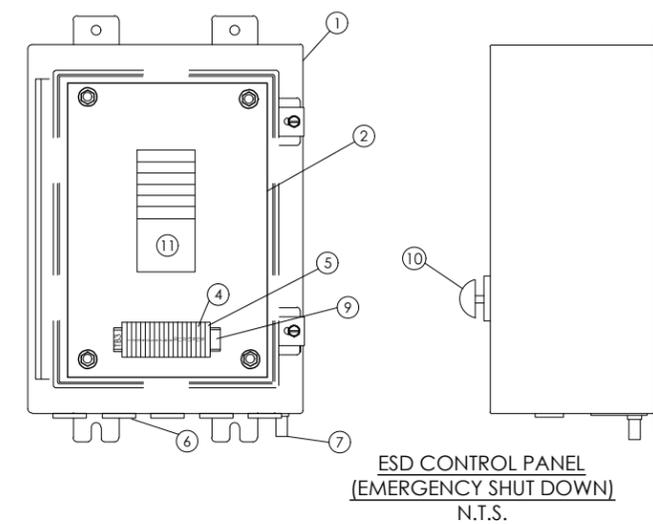
\* EQUIPMENT ESD NOTES:

1. BY NFPA 52 CODE THERE IS NO REQUIREMENT TO MAKE EQUIPMENT ESD BUTTON CONTROL SITE ESD, BUT IF ANY SITE ESD BUTTON IS ACTIVATED ALL THE COMPRESSOR(S), DISPENSER(S), AND DEFUELING PANEL(S) SHALL HAVE POWER SUPPLY SHUT OFF AND HAVE GAS SUPPLY SHUT OFF.
2. CONNECT TO EQUIPMENT ESD CIRCUIT ACCORDING TO EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
3. ADDITIONAL RELAYS AND WIRING MAY BE REQUIRED.
4. DEPENDING ON EQUIPMENT ESD REQUIREMENTS, REVERSAL FROM N-O TO N-C CONTACT CAN BE ACHIEVED BY ROTATING THE CONTACT 180°.

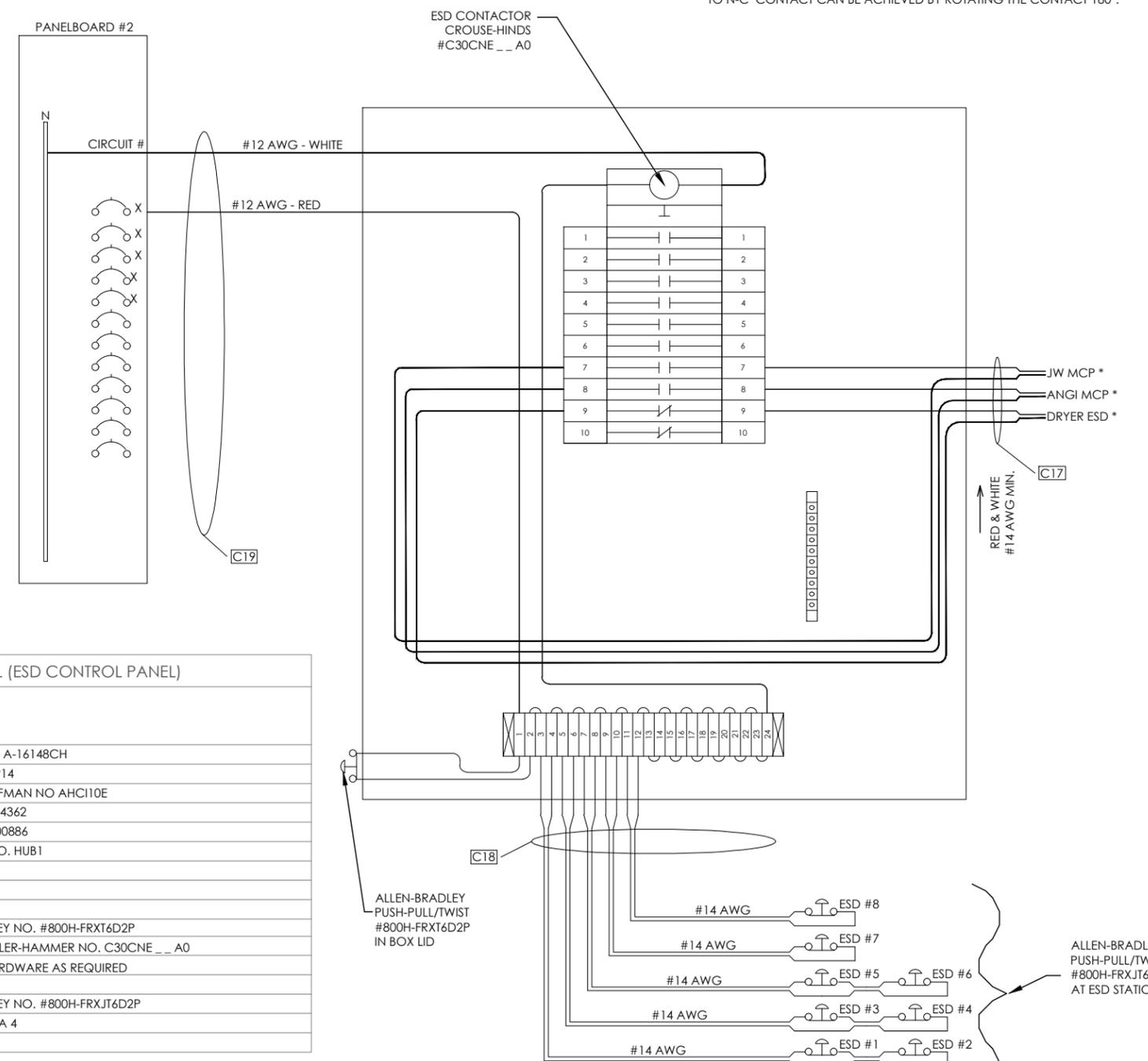
ESD  
WIRING DIAGRAM  
N.T.S.

NOTE:  
ELECTRICAL CONDUITS & WIRING SHOWN MAY BE USED FOR BIDDING PURPOSES. FINAL LOCATIONS, QUANTITIES, AND WIRE SIZING TO BE DETERMINED DURING CONSTRUCTION BY WIRING DIAGRAM SUPPLIED BY COMPRESSOR SKID MANUFACTURER TO MEET THE REQUIREMENTS FOR THE COMPRESSOR CONTROL PANEL. ALL WIRING AND CONDUIT SHALL BE APPROVED BY SUBMITTAL TO ENGINEER BEFORE ORDERED AND INSTALLED.

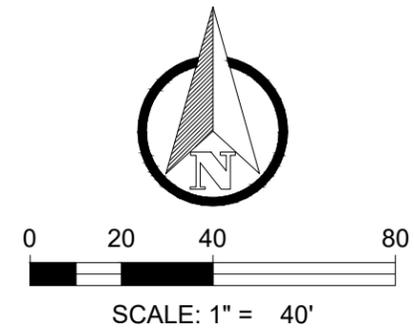
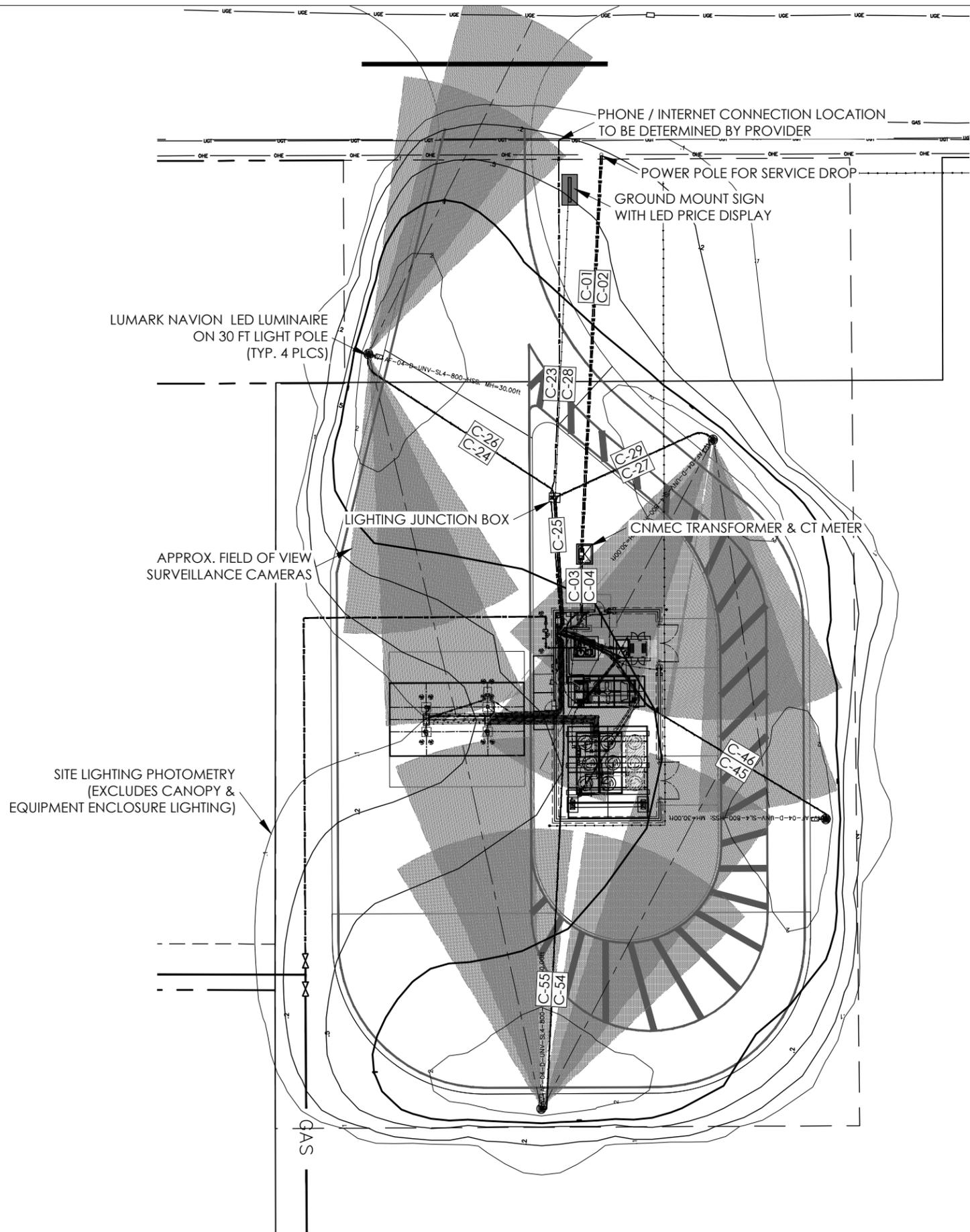
NOTE: FINAL WIRING DIAGRAM FOR COMPRESSOR CONTROL PANEL AND SKID EQUIPMENT TO BE PROVIDED BY COMPRESSOR MANUFACTURER.



BILL OF MATERIAL (ESD CONTROL PANEL)			
ELEC BOM ITEM	ESD BOM ITEM	QTY.	DESCRIPTION
19	1	1	ENCLOSURE-- HOFFMAN NO. A-16148CH
	2	1	PANEL- HOFFMAN NO. A-16P14
	3	1	CORROSION INHIBITOR, HOFFMAN NO AHCI10E
	4	24	TERMINALS, PHOENIX NO. 3004362
	5	2	END STOP, PHOENIX NO. 0800886
	6	3	HUB 3/4" -- CROUSE-HINDS NO. HUB1
	7	1	BREATHER DRAIN -- ECD18
	8	A/R	3/4" CONDUIT
	9	A/R	DIN RAIL 35 MM
	10	1	PUSH BUTTON--ALLEN-BRADLEY NO. #800H-FRXT6D2P
	11	1	LIGHTING CONTACTOR--CUTLER-HAMMER NO. C30CNE __ A0
	12	1	LOT-- TERMINALS & MISC. HARDWARE AS REQUIRED
20	13	8	PUSH BUTTON--ALLEN-BRADLEY NO. #800H-FRXJT6D2P
	14	8	BUTTON ENCLOSURES -- NEMA 4



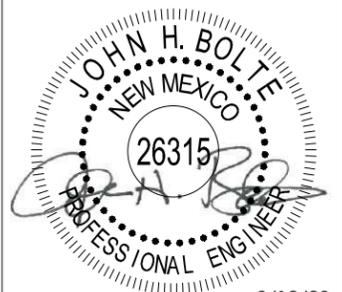
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CAMERA FOV & PHOTOMETRY

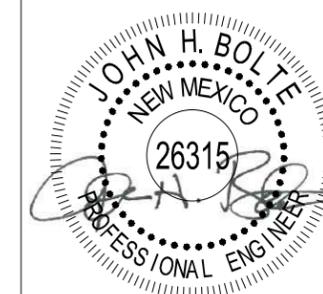
SURVEY BY: N/A PROJECT #: 20104  
DRAWN BY: TED DATE: 08/12/2020  
CHECKED BY: JHB SCALE: 1"=40'

PROJECT: PUBLIC CNG STATION

SHEET DESC: FOV & PHOTOMETRY

SHEET: 17 OF: 27

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PUBLIC ACCESS CNG STATION  
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NORTH ELECTRICAL WALL ELEV.

SURVEY BY: N/A PROJECT #: 20104  
DRAWN BY: TED DATE: 08/12/2020  
CHECKED BY: JHB SCALE: 1"=2'

PROJECT: PUBLIC CNG STATION

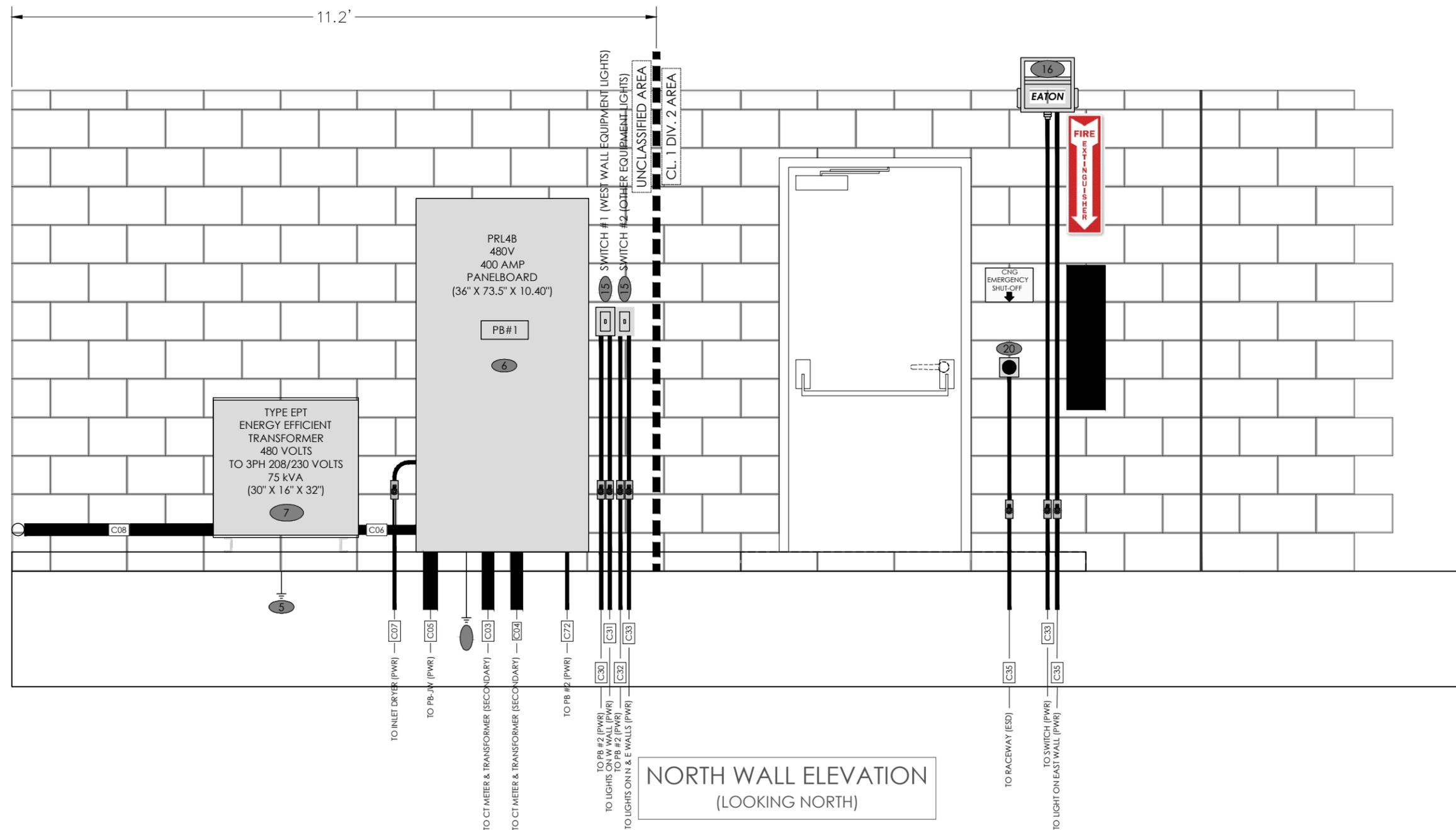
SHEET DESC: NORTH ELEC. WALL ELEV.

SHEET: 18 OF: 27

- (XX) ITEM NUMBERS ALIGN WITH BOM ON SHEET 13
- (CXX) CONDUIT NUMBERS ALIGN WITH SCHEDULES ON SHEETS 23 & 24.
- (SSXX)

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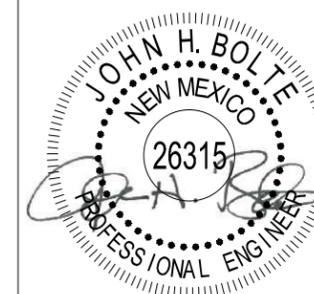
SCALE: 1" = 2'



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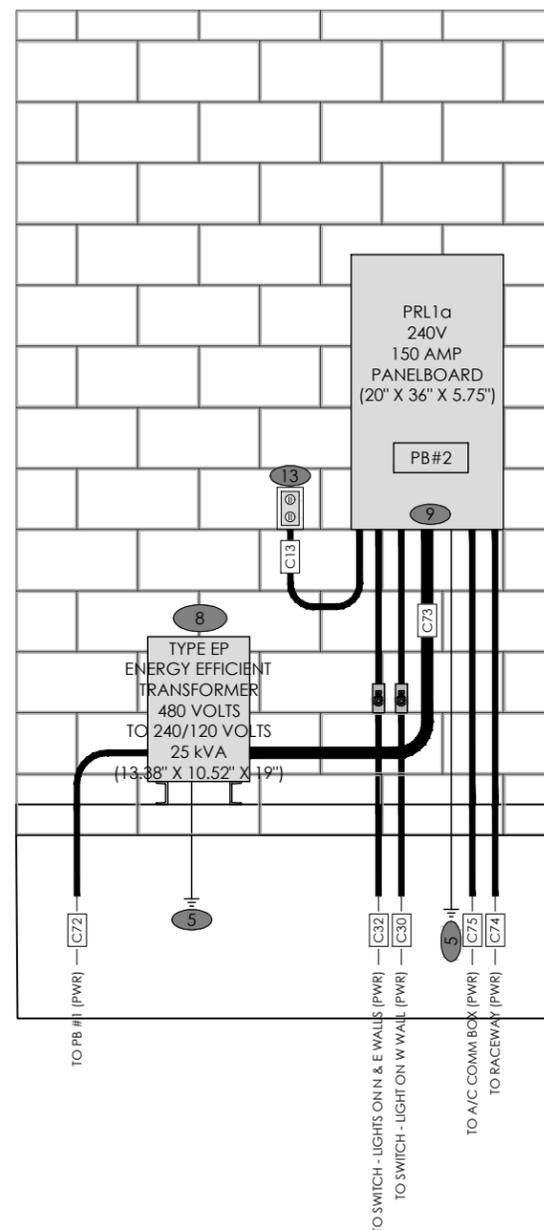
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E.M.W. GAS ASSOCIATION  
614 U.S. Route 66 (W)  
MORIARTY, NM 87035  
INTERIOR ELECTRICAL WALL ELEV.

SURVEY BY: N/A PROJECT #: 20104  
DRAWN BY: TED DATE: 08/12/2020  
CHECKED BY: JHB SCALE: 1"=2'

PROJECT: PUBLIC CNG STATION

SHEET DESC: INTERIOR ELEC. WALL ELEV.

SHEET: 19 OF 27



ELECTRICAL WALL ELEVATION  
(LOOKING SOUTH)



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**PUBLIC ACCESS CNG STATION**  
**E.M.W. GAS ASSOCIATION**  
**614 U.S. Route 66 (W)**  
**MORIARTY, NM 87035**  
**WEST ELECTRICAL WALL ELEVATION**

SURVEY BY: N/A PROJECT #: 20104  
DRAWN BY: TED DATE: 08/12/2020  
CHECKED BY: JHB SCALE: 1"=2'

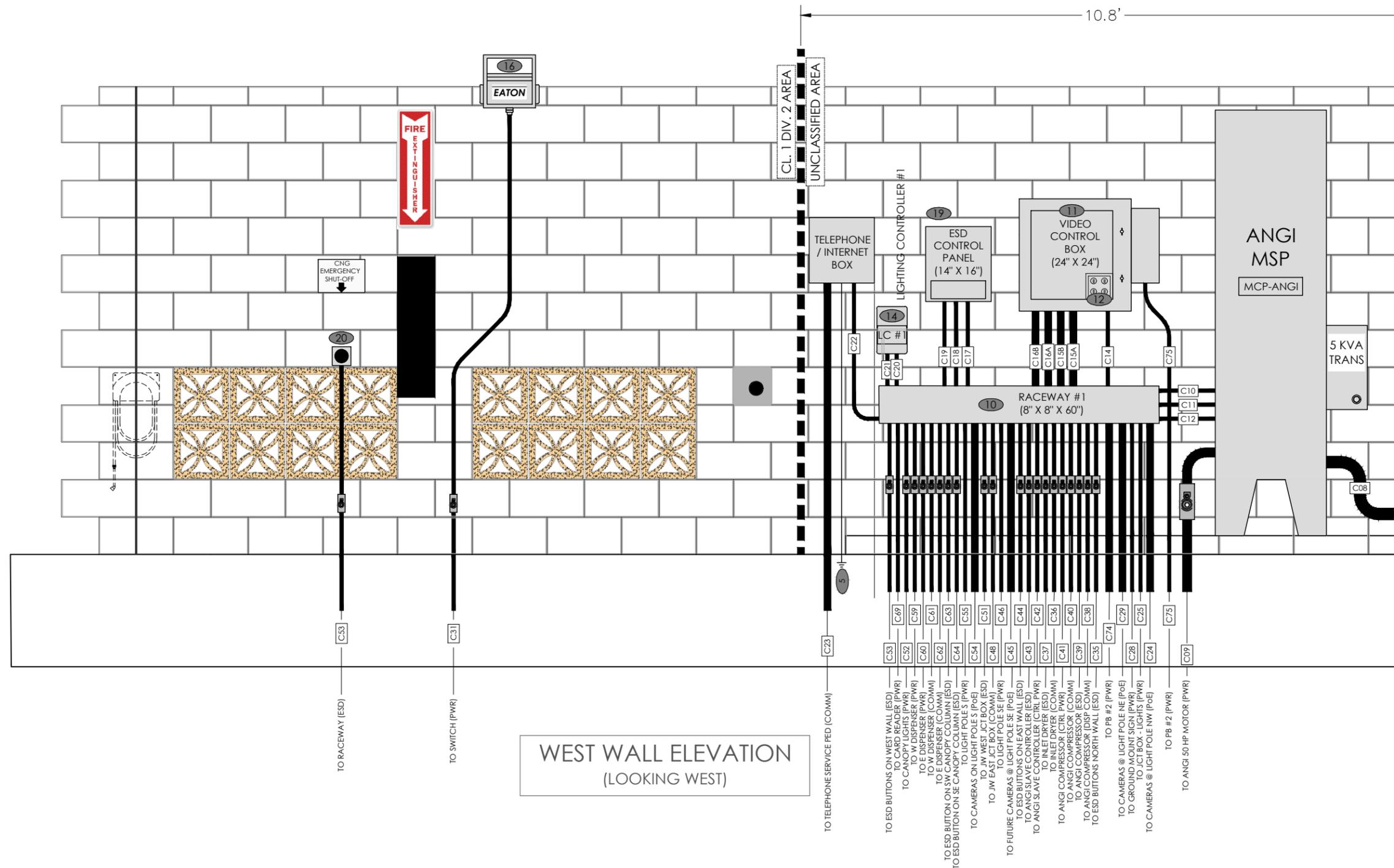
PROJECT: PUBLIC CNG STATION

SHEET DESC: WEST ELEC. WALL ELEV.

SHEET: 20 OF: 27

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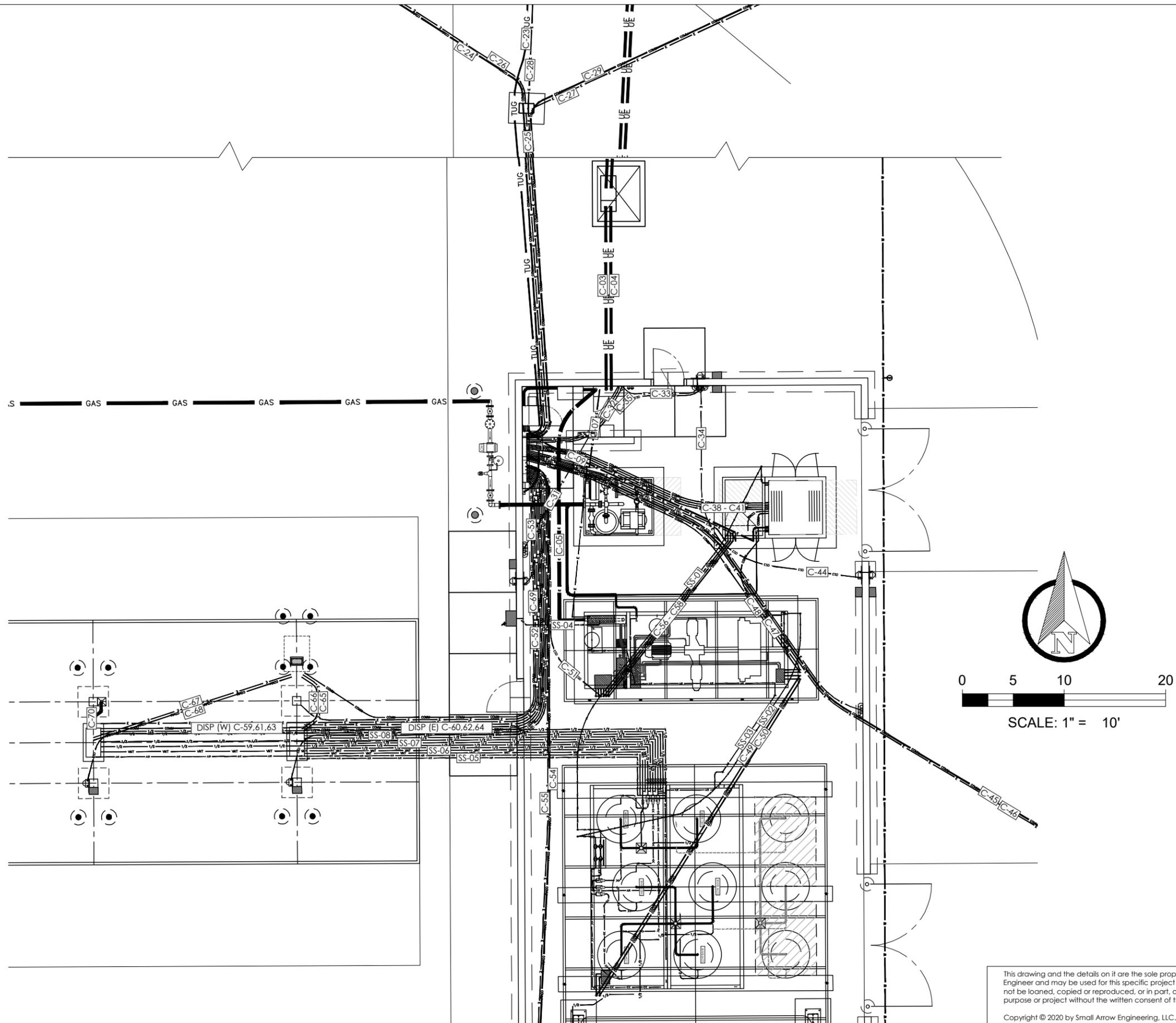
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SCALE: 1" = 2'

(XX) ITEM NUMBERS ALIGN WITH BOM ON SHEET 13

(CXX) CONDUIT NUMBERS ALIGN WITH SCHEDULES ON SHEETS 23 & 24.



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PUBLIC ACCESS CNG STATION  
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 EQUIPMENT CONDUIT LAYOUT

SURVEY BY: N/A PROJECT #: 20104  
 DRAWN BY: TED DATE: 08/12/2020  
 CHECKED BY: JHB SCALE: 1"=10'

PROJECT: PUBLIC CNG STATION

SHEET DESC: EQUIP. CONDUIT LAYOUT

SHEET: 21 OF 27

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NOT TO SCALE

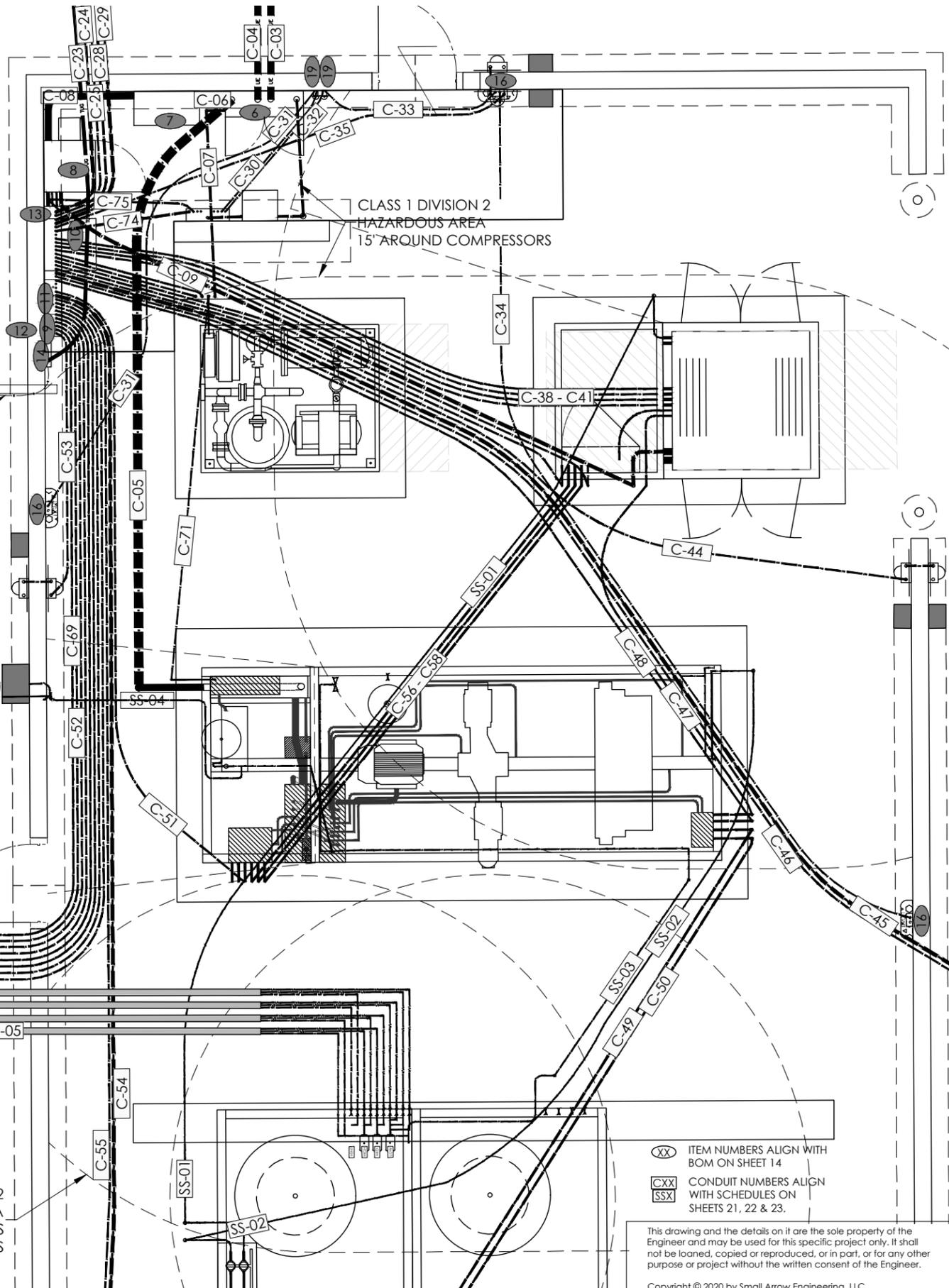
GAS GAS GAS

CONNECT EAGLE FLOW CORRECTOR ON  
ULTRASONIC FLOW METER TO ANGI  
MOTOR STARTER PANEL (MCP-ANGI)  
1. +12VDC POWER  
2. COMMUNICATION CABLE TO MODEM

CLASS 1 DIVISION 2  
HAZARDOUS AREA  
5' AROUND DISPENSERS

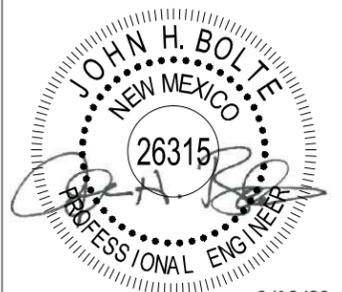
CLASS 1 DIVISION 2  
HAZARDOUS AREA  
15' AROUND COMPRESSORS  
10' AROUND STORAGE VESSELS

CLASS 1 DIVISION 2  
HAZARDOUS AREA  
15' AROUND COMPRESSORS



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KANSAS: E-1930  
ARKANSAS: 2097  
OKLAHOMA: 5937



8/12/20

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PUBLIC ACCESS CNG STATION  
E.M.W. GAS ASSOCIATION  
614 U.S. Route 66 (W)  
MORIARTY, NM 87035  
EQUIPMENT CONDUIT LAYOUT

- XX ITEM NUMBERS ALIGN WITH BOM ON SHEET 14
- CXX CONDUIT NUMBERS ALIGN WITH SCHEDULES ON SHEETS 21, 22 & 23.
- SSX

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DRAWN BY: TED DATE: 08/12/2020  
CHECKED BY: JHB SCALE: N.T.S.

PROJECT: PUBLIC CNG STATION

SHEET DESC: EQUIP. CONDUIT LAYOUT

SHEET: 22 OF 27



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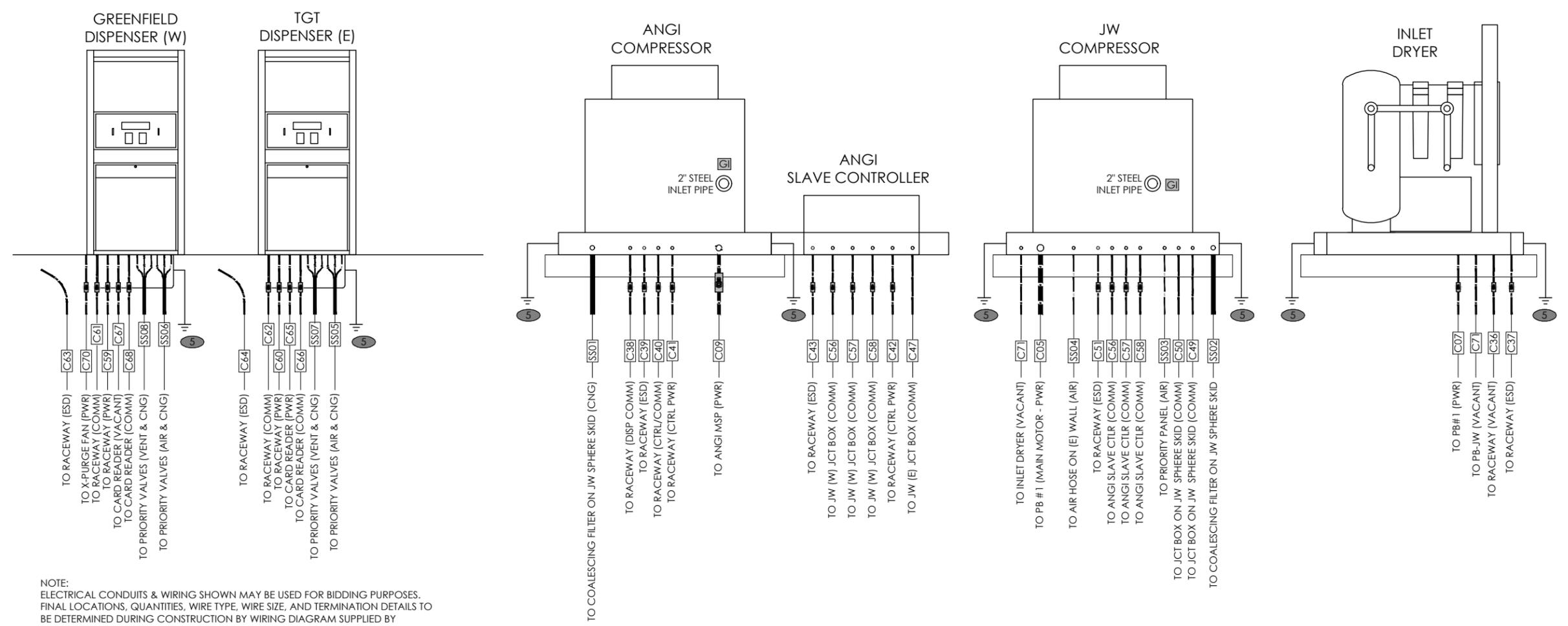
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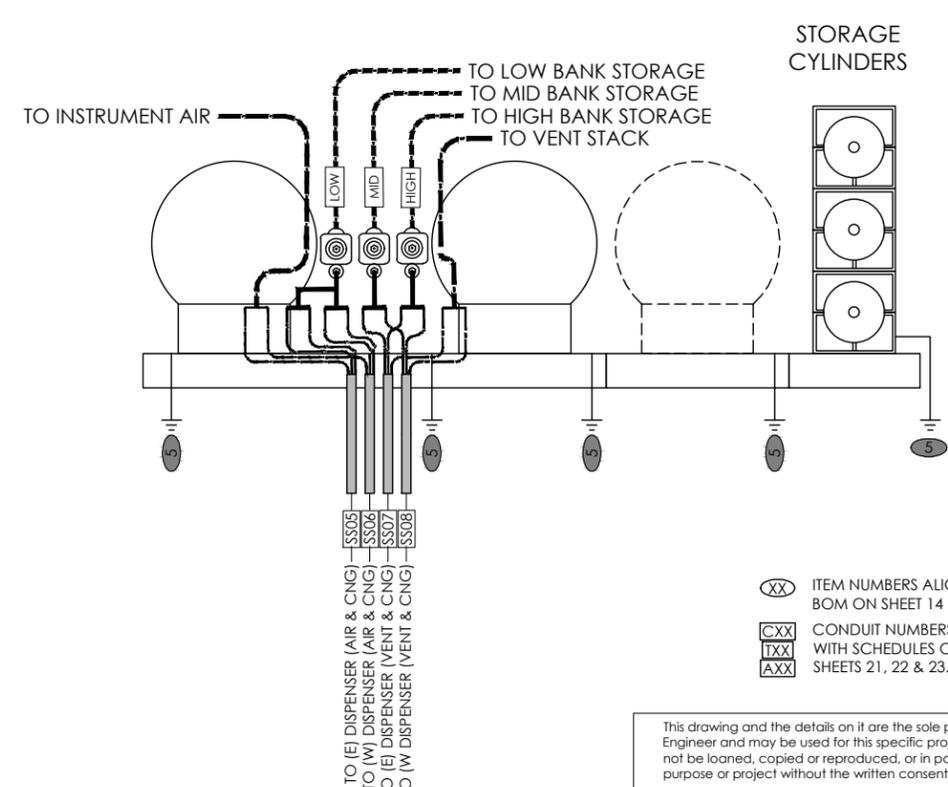
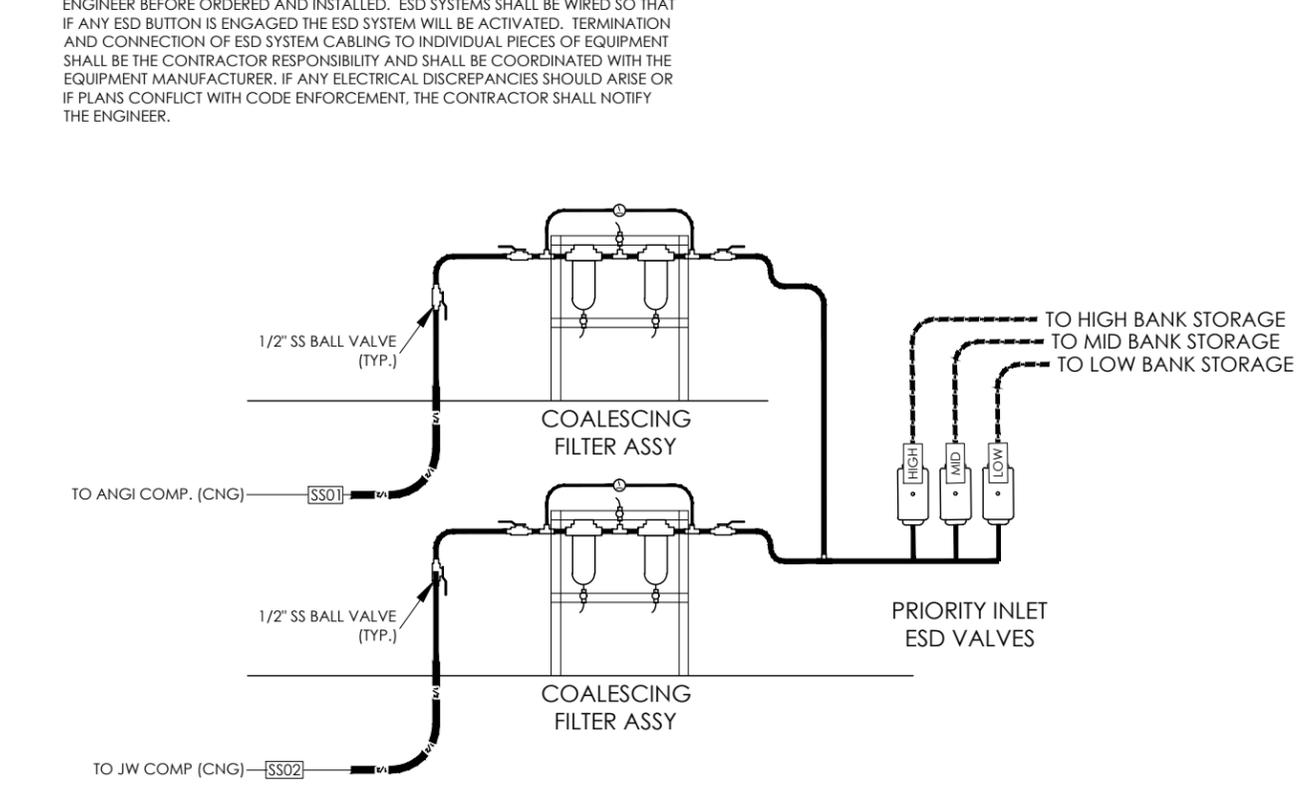
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 CONDUIT EQUIPMENT TERMINATIONS

SURVEY BY: N/A PROJECT #: 20104  
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 CHECKED BY: JHB SCALE: N.T.S.

PROJECT: PUBLIC CNG STATION  
 SHEET DESC: CONDUIT EQUIP. TERM.  
 SHEET: 23 OF: 27

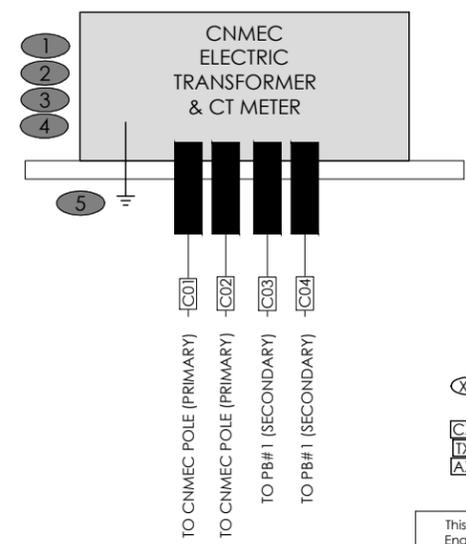
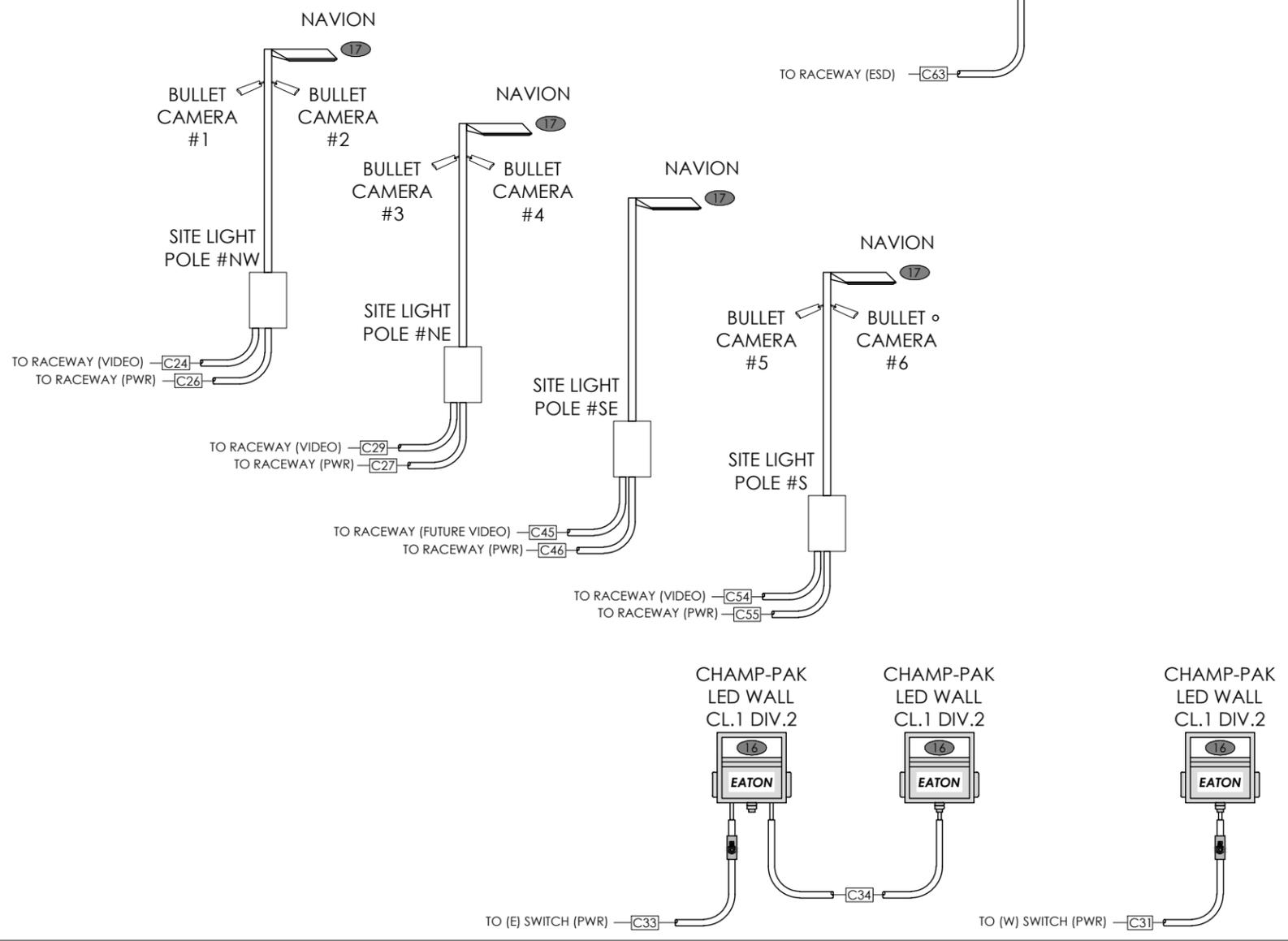
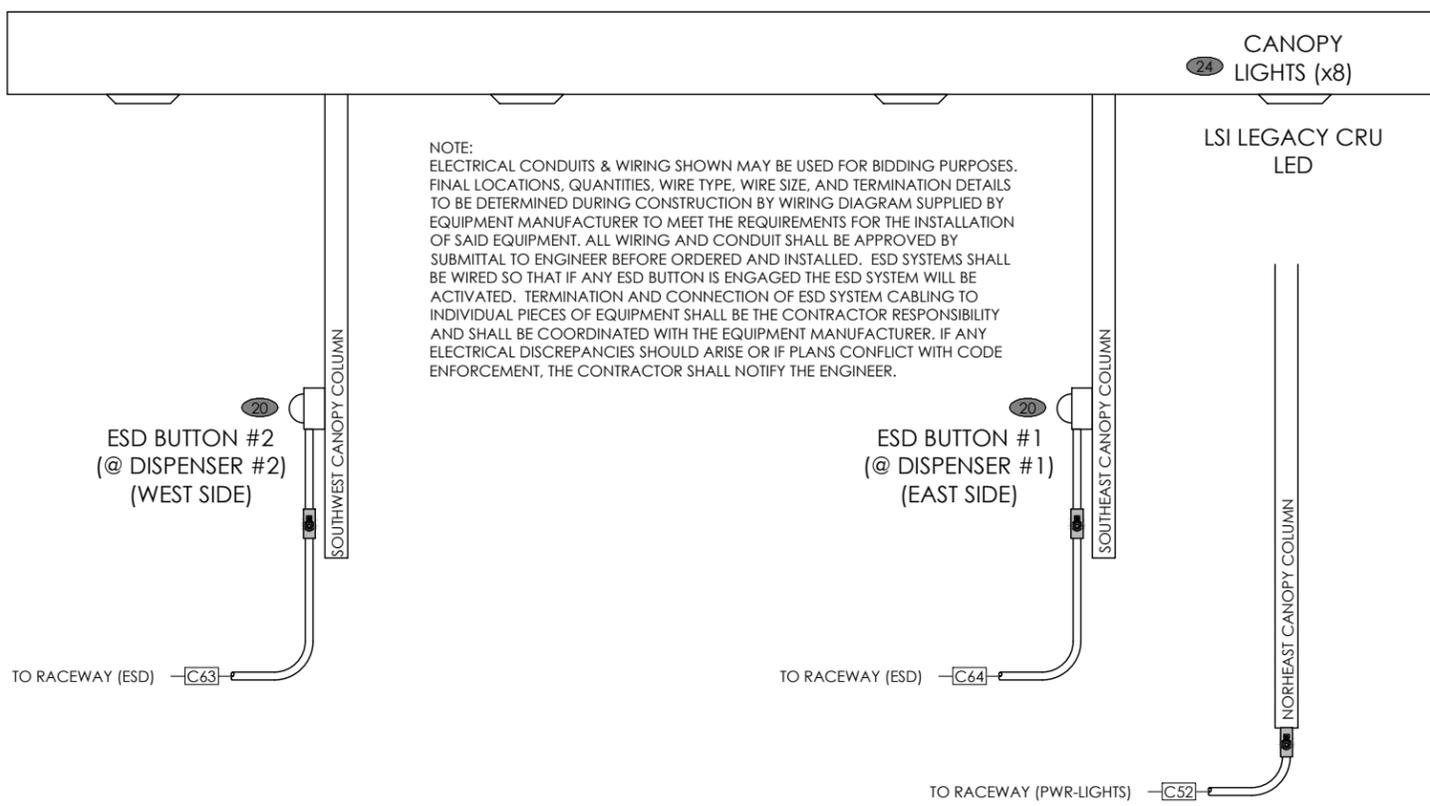
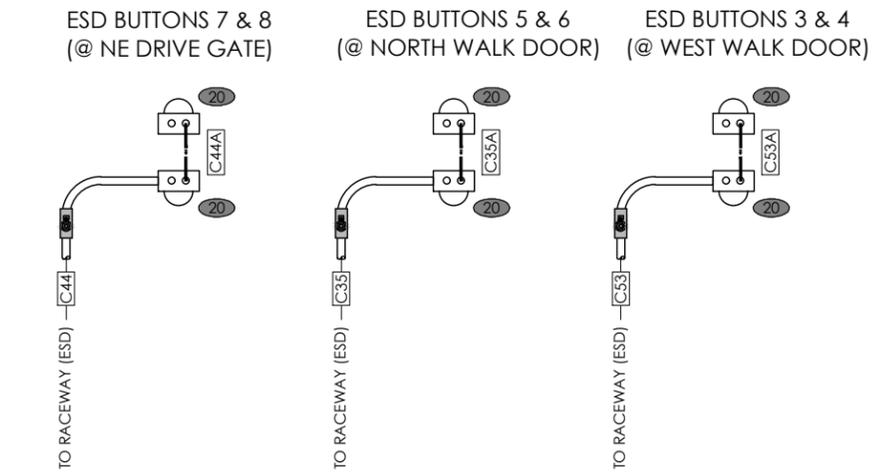


NOTE:  
 ELECTRICAL CONDUITS & WIRING SHOWN MAY BE USED FOR BIDDING PURPOSES.  
 FINAL LOCATIONS, QUANTITIES, WIRE TYPE, WIRE SIZE, AND TERMINATION DETAILS TO  
 BE DETERMINED DURING CONSTRUCTION BY WIRING DIAGRAM SUPPLIED BY  
 EQUIPMENT MANUFACTURER TO MEET THE REQUIREMENTS FOR THE INSTALLATION OF  
 SAID EQUIPMENT. ALL WIRING AND CONDUIT SHALL BE APPROVED BY SUBMITTAL TO  
 ENGINEER BEFORE ORDERED AND INSTALLED. ESD SYSTEMS SHALL BE WIRED SO THAT  
 IF ANY ESD BUTTON IS ENGAGED THE ESD SYSTEM WILL BE ACTIVATED. TERMINATION  
 AND CONNECTION OF ESD SYSTEM CABLING TO INDIVIDUAL PIECES OF EQUIPMENT  
 SHALL BE THE CONTRACTOR RESPONSIBILITY AND SHALL BE COORDINATED WITH THE  
 EQUIPMENT MANUFACTURER. IF ANY ELECTRICAL DISCREPANCIES SHOULD ARISE OR  
 IF PLANS CONFLICT WITH CODE ENFORCEMENT, THE CONTRACTOR SHALL NOTIFY  
 THE ENGINEER.



XX ITEM NUMBERS ALIGN WITH BOM ON SHEET 14  
 CXX CONDUIT NUMBERS ALIGN WITH SCHEDULES ON SHEETS 21, 22 & 23.  
 TXX  
 AXX

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- (XX) ITEM NUMBERS ALIGN WITH BOM ON SHEET 14
- (CXX) CONDUIT NUMBERS ALIGN WITH SCHEDULES ON SHEETS 21, 22 & 23.
- (TXX)
- (AXX)

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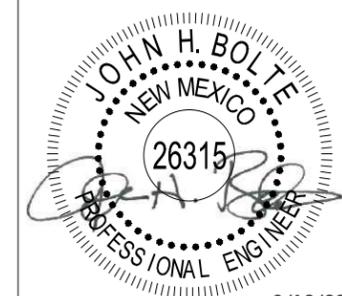
PROJECT: PUBLIC CNG STATION  
SHEET DESC: CONDUIT EQUIP. TERM.  
SHEET: 24 OF: 27



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PUBLIC ACCESS CNG STATION  
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614 U.S. Route 66 (W)  
MORIARTY, NM 87035  
CONDUIT & WIRING SCHEDULE

SURVEY BY: N/A PROJECT #: 20104  
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CHECKED BY: JHB SCALE: N.T.S.

PROJECT: PUBLIC CNG STATION

SHEET DESC: COND. & WIRING SCHED.

SHEET: 25 OF 27

CONDUIT & WIRING SCHEDULE

CONDUIT NO.	MIN. SIZE	~LENGTH PT TO PT	PHASE	NO. & SIZE WIRE/CABLE	GROUND WIRE	CIRCUIT NO.	BREAKER/POLE	FROM	TO	FUNCTION/COMMENTS	CONDUIT SEAL	SHEET REFERENCE
1	4" SCH 80	130'	3	CNMEC TO PROVIDE AND INSTALL PRIMARY CABLE	-	(PRIMARY)	-	EXIST POWER POLE @ DWY	TRANSFORMER/CT METER		-	
2	4" SCH 80	130'	3	CNMEC TO PROVIDE AND INSTALL PRIMARY CABLE	-	(PRIMARY)	-	EXIST POWER POLE @ DWY	TRANSFORMER/CT METER		-	
3	2 1/2"	20'	3	(3) 3/0 MCM	(1) 3/0 MCM	(SECONDARY)	400A MAIN BRKR	TRANSFORMER/CT METER	PB #1		-	
4	2 1/2"	20'	3	(3) 3/0 MCM	(1) 3/0 MCM	(SECONDARY)	400A MAIN BRKR	TRANSFORMER/CT METER	PB #1		-	
5	3"	25'	3	(3) 300 MCM	(1) 300 MCM	PB1 - 1	300A - 3P	PB #1	PB JW	300A MIN BRKR (FEEDS 400A EXISTING)	-	
6	2 1/2"	1'	3	(3) 3/0 MCM	(1) 3/0 MCM	PB1 - 2	200A - 3P	PB #1	75 kVA TRANSFORMER 230V-3PH		-	
7	1"	10'	3	(3) AWG #10	(1) AWG #10	PB1 - 3	30A - 3P	PB #1	INLET DRYER		-	
8	2 1/2"	5'	3	(3) 3/0 MCM	(1) 3/0 MCM	(PB - ANGI)	-	TRANSFORMER 230V-3PH	ANGI MSP		-	
9	2"	25'	3	(3) 2/0 MCM	(1) 2/0 MCM	(PB - ANGI)	-	ANGI MSP	ANGI 50 HP MOTOR		Y	
10	1 1/4"	2'	1	(2) 12 AWG, (6) 14 AWG	(1) 12 AWG, (3) 14 AWG	VARIABLES	VARIABLES	ANGI MSP	RACEWAY		-	
11	1 1/4"	2'	ESD	(2) #14 AWG				ANGI MSP	RACEWAY		-	
12	1 1/4"	2'	COMM	(1) CAT 5				ANGI MSP	RACEWAY		-	
13	3/4"	1'	1	(2) 12 AWG	(1) 12 AWG	PB2 - 3	20A	PB #2	WxPROOF DUPLEX OUTLET		-	
14	1"	1'	1	(2) 12 AWG	(1) 12 AWG	PB2 - 1	20A	RACEWAY	QUADPLEX OUTLET - VIDEO CTRL PNL		-	
15A	1 1/2"	1'	VIDEO	(4) CAT 6				RACEWAY	VIDEO CONTROL PANEL		-	
15B	1 1/2"	1'	VIDEO	(2) CAT 6, FUT (2) CAT 6				RACEWAY	VIDEO CONTROL PANEL		-	
16A	1 1/2"	1'	VIDEO	MISC, VARIOUS CABLE FOR PHONE / INTERNET / COMM				RACEWAY	VIDEO CONTROL PANEL		-	
16B	1 1/2"	1'	VIDEO	MISC, VARIOUS CABLE FOR PHONE / INTERNET / COMM				RACEWAY	VIDEO CONTROL PANEL		-	
17	1"	1'	ESD	(6) #14 AWG				RACEWAY	ESD CONTROL PANEL		-	
18	1"	1'	ESD	(10) #14 AWG				RACEWAY	ESD CONTROL PANEL		-	
19	1"	1'	1	(2) 12 AWG	(1) 12 AWG	PB2 - 2	20A	RACEWAY	ESD CONTROL PANEL		-	
20	3/4"	1'	1	(2) 12 AWG	(1) 12 AWG	PB2 - 4	20A	RACEWAY	LIGHTING CONTROL PANEL		-	
21	3/4"	1'	1	(4) 12 AWG	(2) 12 AWG	PB2 - 4	20A	RACEWAY	LIGHTING CONTROL PANEL		-	
22	3/4"	1'	COMM	T.B.D.				RACEWAY	TELEPHONE/INTERNET BOX		-	
23	1 1/2"	165'	TELE	T.B.D.				TELEPHONE / INTERNET BOX	UTILITY CONNECTION POINT		-	
24	1 1/2"	125'	VIDEO	(2) CAT 6				RACEWAY	CAMERAS ON LIGHT POLE (N W)		-	
25	3/4"	45'	1	(4) #14 AWG	(1) #14 AWG	PB2 - 4	20A	RACEWAY	JUNCTION BOX		-	
26	3/4"	80'	1	(2) #14 AWG	(1) #14 AWG	PB2 - 4	20A	JUNCTION BOX	LIGHT POLE NW		-	
27	3/4"	60'	1	(2) #14 AWG	(1) #14 AWG	PB2 - 4	20A	JUNCTION BOX	LIGHT POLE NE		-	
28	1"	145'	1	(2) #12 AWG	(1) #14 AWG	PB2 - 5	15A	RACEWAY	GROUND MOUNT SIGN		-	
29	1 1/2"	105'	VIDEO	(2) CAT 6				RACEWAY	CAMERAS ON LIGHT POLE (NE)		-	
30	3/4"	10'	1	(2) #14 AWG	(1) #14 AWG	PB2 - 6	15A	PB #2	WEST SWITCH		-	
31	3/4"	20'	1	(2) #14 AWG	(1) #14 AWG	PB2 - 6	15A	WEST SWITCH	WEST WALL LIGHT		Y	
32	3/4"	10'	1	(2) #14 AWG	(1) #14 AWG	PB2 - 8	15A	PB #2	EAST SWITCH		-	
33	3/4"	10'	1	(2) #14 AWG	(1) #14 AWG	PB2 - 8	15A	EAST SWITCH	NORTH WALL LIGHT		-	
34	3/4"	40'	1	(2) #14 AWG	(1) #14 AWG	PB2 - 8	15A	NORTH WALL LIGHT	EAST WALL LIGHT		-	
35	3/4"	20'	ESD	(2) #14 AWG				RACEWAY	ESD NORTH WALL (X2)		Y	
35A	3/4"	1'	ESD	(2) #14 AWG				ESD NORTH WALL (INNER)	ESD NORTH WALL (OUTER)		-	
36	3/4"	5'	COMM	T.B.D.				RACEWAY	INLET DRYER		Y	
37	3/4"	5'	ESD	(2) #14 AWG				RACEWAY	INLET DRYER		Y	
38	3/4"	25'	COMM	(1) CAT 5				RACEWAY	ANGI COMPRESSOR	DISPENSER COMMUNICATION	Y	
39	3/4"	25'	ESD	(2) #14 AWG				RACEWAY	ANGI COMPRESSOR	ESD	Y	
40	3/4"	25'	COMM	T.B.D.				RACEWAY	ANGI COMPRESSOR	COMMUNICATION / CONTROL	Y	
41	3/4"	25'	1	(2) #14 AWG	(1) #14 AWG	(PB - ANGI)	(15A)	RACEWAY	ANGI COMPRESSOR	CONTROL POWER	Y	
42	3/4"	20'	1	(2) #14 AWG	(1) #14 AWG	(PB - ANGI)	(15A)	RACEWAY	ANGI SLAVE CONTROLLER	CONTROL POWER	Y	
43	3/4"	20'	ESD	(2) #14 AWG				RACEWAY	ANGI SLAVE CONTROLLER	ESD	Y	
44	3/4"	35'	ESD	(2) #14 AWG				RACEWAY	ESD EAST WALL (X2)		Y	
44A	3/4"	35'	ESD	(2) #14 AWG				ESD EAST WALL (INNER)	ESD EAST WALL (OUTER)		-	

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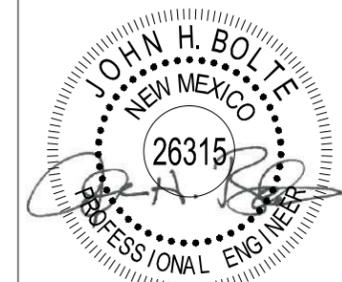
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CONDUIT & WIRING SCHEDULE

SURVEY BY: N/A PROJECT #: 20104  
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PROJECT: PUBLIC CNG STATION

SHEET DESC: COND. & WIRING SCHED.

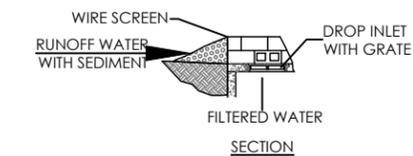
SHEET: 26 OF 27

CONDUIT & WIRING SCHEDULE

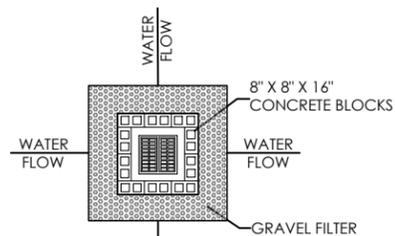
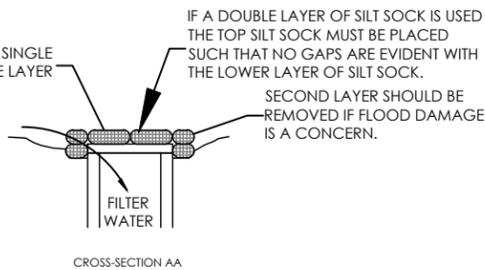
CONDUIT NO.	MIN. SIZE	~ LENGTH PT TO PT	PHASE	NO. & SIZE WIRE/CABLE	GROUND WIRE	CIRCUIT NO.	BREAKER/POLE	FROM	TO	FUNCTION/COMMENTS	CONDUIT SEAL	SHEET REFERENCE
45	1 1/2"	110'	VIDEO	VACANT (FUTURE)				RACEWAY	CAMERAS ON LIGHT POLE (SE)		-	
46	3/4"	110'	1	(2) #14 AWG	(1) #14 AWG	PB2 - 4	20A	RACEWAY	LIGHT POLE SE		-	
47	3/4"	15'	COMM	(1) CAT 5				ANGI COMPRESSOR	JW EAST JCT BOX	STORAGE COMMUNCTIONS	-	
48	3/4"	35'	COMM	(1) CAT 5				RACEWAY	JW EAST JCT BOX	STORAGE COMMUNCTIONS	Y	
49	3/4"	35'	COMM	(1) CAT 5				JW EAST JCT BOX	STORAGE JCT BOX		-	
50	3/4"	35'	COMM	T.B.D.				JW EAST JCT BOX	STORAGE JCT BOX		-	
51	3/4"	20'	ESD	(2) #14 AWG				RACEWAY	JW WEST JCT BOX		Y	
52	3/4"	50'	1	(2) 12 AWG	(1) 12 AWG	PB2 - 4	20A	RACEWAY	N E CANOPY COLUMN - CANOPY LIGHTS		Y	
53	3/4"	15'	ESD	(2) #14 AWG				RACEWAY	ESD WEST WALL (X2)		Y	
53A	3/4"	1'	ESD	(2) #14 AWG				ESD WEST WALL (INNER)	ESD WEST WALL (OUTER)		-	
54	1 1/2"	155'	VIDEO	(2) CAT 6				RACEWAY	CAMERAS ON LIGHT POLE (S)		-	
55	3/4"	155'	1	(2) #14 AWG	(1) #14 AWG	PB2 - 4	20A	RACEWAY	LIGHT POLE (S)		-	
56	3/4"	20'	COMM	(1) CAT 5				ANGI SLAVE CONTROLLER	JW WEST JCT BOX		Y	
57	3/4"	20'	COMM	T.B.D.				ANGI SLAVE CONTROLLER	JW WEST JCT BOX		Y	
58	3/4"	20'	COMM	T.B.D.				ANGI SLAVE CONTROLLER	JW WEST JCT BOX		Y	
59	3/4"	70'	1	(2) #14 AWG	(1) #14 AWG	(PB - ANGI)	(15A)	RACEWAY	GREENFIELD DISPENSER (W)		Y	
60	3/4"	50'	1	(2) #14 AWG	(1) #14 AWG	(PB - ANGI)	(15A)	RACEWAY	TGT DISPENSER (E)		Y	
61	3/4"	70'	COMM	(1) CAT 5				RACEWAY	GREENFIELD DISPENSER (W)		Y	
62	3/4"	50'	COMM	(1) CAT 5				RACEWAY	TGT DISPENSER (E)		Y	
63	3/4"	80'	ESD	(2) #14 AWG				RACEWAY	SW CANOPY COLUMN		Y	
64	3/4"	60'	ESD	(2) #14 AWG				RACEWAY	SE CANOPY COLUMN		Y	
65	3/4"	10'	1	(2) #14 AWG	(1) #14 AWG	(PB - ANGI)	(15A)	TGT DISPENSER (E)	CARD READER		Y	
66	3/4"	10'	COMM	(1) CAT 5				TGT DISPENSER (E)	CARD READER		Y	
67	3/4"	20'	1	VACANT				GREENFIELD DISPENSER (W)	CARD READER		Y	
68	3/4"	20'	COMM	(1) CAT 5				GREENFIELD DISPENSER (W)	CARD READER		Y	
69	3/4"	45'	COMM	(1) CAT 5				RACEWAY	CARD READER		-	
70	3/4"	5'	1	(2) #14 AWG	(1) #14 AWG	(PB - ANGI)	(15A)	GREENFIELD DISPENSER (W)	X-PURGE FAN (IF REQ'D)		Y	
71	3/4"	15'	VACANT	VACANT (FUTURE)				PB JW	INLET DRYER		Y	
72	3/4"	10'	3	(2) #8 AWG	(1) #8 AWG	PB1 - 4	60A-2P	PB #1	25 kVA TRANSFORMER		-	
73	2"	5'	2	(2) #1 AWG	(1) #1 AWG	PB1 - 4	150A MAIN BREAKER	25 kVA TRANSFORMER	PB #2		-	
74	1"	10'	1	(4) #12 AWG, (2) 14 AWG	(2) #12 AWG, (1) 14 AWG	PB2 - 1	20A, 20A, 15A	PB #2	RACEWAY		-	
75	1"	10'	2	(2) 12 AWG	(1) 12 AWG	PB2 - 16/18	20A-2P	PB #2	A/C - VIDEO CONTROL PANEL		-	
SS-01	1 1/4"	40'		(1) 1/2" SS 0.065" WALL (CNG)				ANGI COMPRESSOR	COALESCING FILTER ON SPHERE SKID	CAP / SEAL / CAULK / FILLER D OF CONDUIT AROUND SS	*	
SS-02	1 1/4"	35'		(1) 1/2" SS 0.065" WALL (CNG)				JW COMPRESSOR	COALESCING FILTER ON SPHERE SKID	CAP / SEAL / CAULK / FILLER D OF CONDUIT AROUND SS	*	
SS-03	1 1/4"	10'		(1) 1/2" SS 0.020" WALL (AIR)				JW COMPRESSOR	PRIORITY PANEL ON SPHERE SKID	CAP / SEAL / CAULK / FILLER D OF CONDUIT AROUND SS	*	
SS-04	1 1/4"	10'		(1) 1/2" SS 0.020" WALL (AIR)				JW COMPRESSOR	AIR HOSE ON WEST WALL	CAP / SEAL / CAULK / FILLER D OF CONDUIT AROUND SS	*	
SS-05	2"	40'		(1) 1/2" SS 0.020" W (AIR), (2) 1/2" SS 0.065" W (CNG)				PRIORITY PANEL ON SPHERE SKID	TGT DISPENSER (E)	CAP / SEAL / CAULK / FILLER D OF CONDUIT AROUND SS	*	
SS-06	2"	60'		(1) 1/2" SS 0.020" W (AIR), (2) 1/2" SS 0.065" W (CNG)				PRIORITY PANEL ON SPHERE SKID	GREENFIELD DISPENSER (W)	CAP / SEAL / CAULK / FILLER D OF CONDUIT AROUND SS	*	
SS-07	2"	40'		(1) 1/2" SS 0.065" W (VENT), (2) 1/2" SS 0.065" W (CNG)				PRIORITY PANEL ON SPHERE SKID	TGT DISPENSER (E)	CAP / SEAL / CAULK / FILLER D OF CONDUIT AROUND SS	*	
SS-08	2"	60'		(1) 1/2" SS 0.065" W (VENT), (2) 1/2" SS 0.065" W (CNG)				PRIORITY PANEL ON SPHERE SKID	GREENFIELD DISPENSER (W)	CAP / SEAL / CAULK / FILLER D OF CONDUIT AROUND SS	*	

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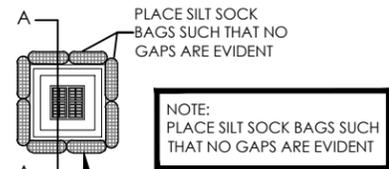
NOTE:  
CONTRACTOR MAY SUBSTITUTE SILT SOCK PROTECTION IN PLACE OF THE DETAIL SHOWN HERE.



SILT SOCK CAN BE A SINGLE OR DOUBLE LAYER

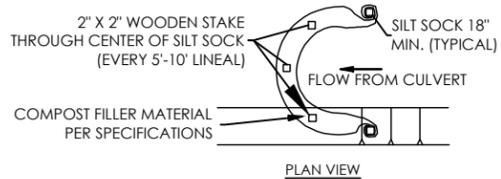


PLAN VIEW INLET PROTECTION DETAIL  
N.T.S.

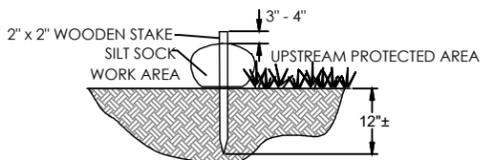


NOTE:  
PLACE SILT SOCK BAGS SUCH THAT NO GAPS ARE EVIDENT

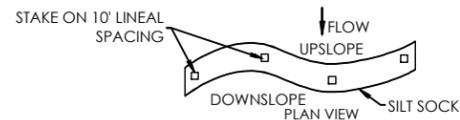
\* 3/4-INCH GRAVEL CONTAINED IN PERVIOUS BURLAP BAGS OR SYNTHETIC NET BAGS (1/8-INCH MESH) APPROXIMATELY 24 INCHES LONG, 12 INCHES WIDE, AND 6 INCHES (i.e. CURB HEIGHT) HIGH.



PLAN VIEW



SECTION SILT SOCK DETAIL



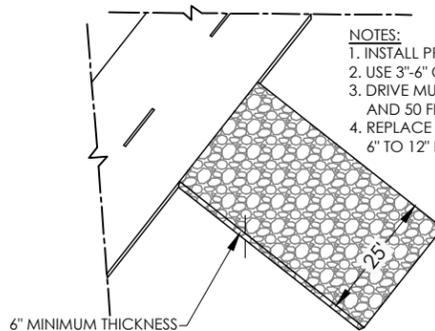
PLAN VIEW

NOTES:  
1. SILT SOCK TO MEET FILTREXX SPECIFICATIONS OR APPROVED EQUAL.  
2. INSTALL ACCORDING TO MANUFACTURER SPECIFICATIONS.  
3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY INSPECTOR.

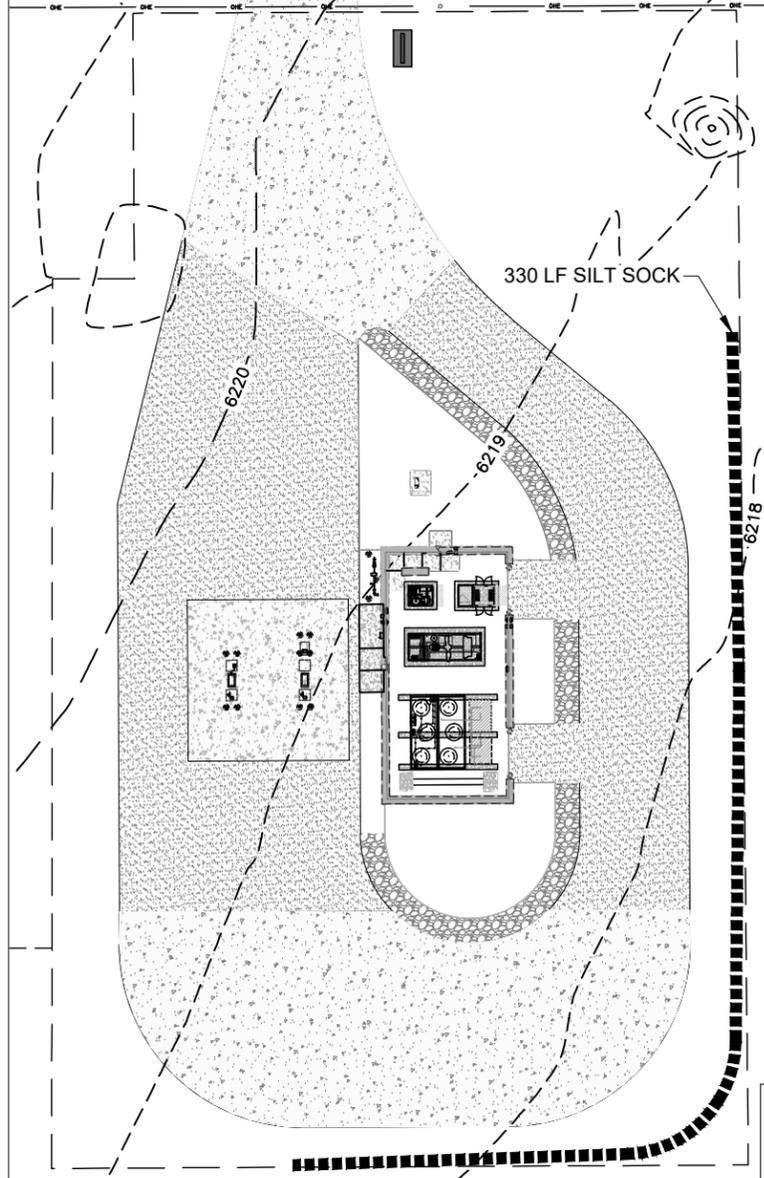
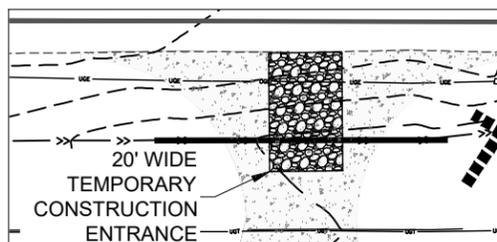
NOTES:

1. PLACE SILT FENCE AT DOWNSLOPE LIMIT OF AREA TO BE GRADED.
2. SILT FENCE SHALL BE PLACED ALONG A LEVEL CONTOUR WITH AN ALLOWANCE OF ± 4 INCHES.
3. SEDIMENT TRAPPED BY THIS PRACTICE SHALL BE DISPOSED OF IN AN APPROVED SITE IN A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POSTS.
5. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN IT HAS SERVED ITS USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES.
8. AT EACH END OF SILT FENCE, TURN FENCE UPSLOPE AND EXTEND UNTIL GROUND SURFACE RISES 18 INCHES.

IF A DOUBLE LAYER OF SILT SOCK IS USED THE TOP SILT SOCK MUST BE PLACED SUCH THAT NO GAPS ARE EVIDENT WITH THE LOWER LAYER OF SILT SOCK.  
SECOND LAYER SHOULD BE REMOVED IF FLOOD DAMAGE IS A CONCERN.



ROCK CONSTRUCTION ENTRANCE  
N.T.S.



EROSION CONTROL NOTES:

1. THIS PLAN SHOWS THE LOCATION AND DETAILS FOR PRIMARY SEDIMENT CONTROLS TO BE CONSTRUCTED. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING EROSION AND DISCHARGE OF SEDIMENT FROM THE SITE AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE NECESSARY MEASURES DURING ALL PHASES OF HIS OPERATIONS REGARDLESS OF WHETHER THEY ARE SPECIFICALLY NOTED ON THIS PLAN AND SHALL MAINTAIN AND REPLACE CONTROLS AS NECESSARY DURING THE CONTROLS OF HIS OPERATIONS.
2. TEMPORARY CONSTRUCTION ENTRANCE(S) AND SILT FENCES, STRAW BALE DIKES OR OTHER INITIAL SEDIMENT CONTROLS SHOWN ON THIS PLAN MUST BE INSTALLED PRIOR TO ANY OTHER WORK.
3. THE CONTRACTOR SHALL CLEAN STREETS BOTH INTERIOR AND ADJACENT TO THE SITE AS NEEDED AFTER EACH RAINFALL, AND AT THE END OF CONSTRUCTION.
4. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST DURING CONSTRUCTION AND SHALL WATER CONSTRUCTION AREAS WHENEVER CONDITIONS WARRANT.
5. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING ACCUMULATED SEDIMENT FROM STORM DRAINS PRIOR TO APPROVAL OF CONSTRUCTION.
6. ALL DISTURBED AREAS NOT RECEIVING OTHER PERMANENT STABILIZATION SUCH AS PAVEMENT, ROOFS, SOD, ETC., SHALL BE SEEDED AND MULCHED.
7. TEMPORARY EROSION CONTROL ROCK DITCH CHECKS AND HAY BALE DIKES MAY BE STAGED IF USING 12" MINUS RIP RAP PROTECTION OPTION.
8. IF TURF REINFORCEMENT IS USED THEY SHALL REMAIN IN PLACE AFTER CONSTRUCTION.
9. CONTRACTOR TO PLACE EROSION CONTROL PER PLAN AND AS NEEDED

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

PRIOR TO CONSTRUCTION:

1. INSTALL TEMPORARY CONSTRUCTION ENTRANCE.
2. BEGIN AND CONTINUE A WEEKLY WRITTEN LOG OF INSPECTION AND WORK.

DURING CONSTRUCTION:

1. OWNER SHALL PROVIDE WEEKLY INSPECTION AND MAINTENANCE OF SWPPP MEASURES WITH WRITTEN LOG OF ACTIVITIES.
2. STRIP ALL TOPSOIL FROM PROPOSED GRADING AREAS AND STOCKPILE. STOCKPILE SLOPES SHALL NOT BE MORE THAN 3:1.
3. GRADE THE ENTIRE SITE AS SHOWN ON THE GRADING PLAN.
4. IF GRADING STOPS FOR A PERIOD OF 7 DAYS OR MORE ON SLOPES EQUAL TO OR GREATER THAN 3:1, SEED AND STRAW AREAS AFFECTED WITH RAPIDLY GROWING PLANTS. IF SLOPE IS LESS THAN 3:1, 7 DAYS SHALL APPLY.
5. PROVIDE TEMPORARY BLOCKING OF SEDIMENT TO ALL INLETS.
6. AFTER GRADING IS COMPLETE, PLACE TOPSOIL AT A MINIMUM DEPTH OF 4" IN ALL AREAS EXCEPT IMPERVIOUS AREAS. SEED AND STRAW ALL AREAS.

POST CONSTRUCTION:

1. RESEED AND MULCH AS REQUIRED UNTIL VEGETATION IS FIRMLY ESTABLISHED.
2. CONTINUE INSPECTION AND MAINTENANCE OF TEMPORARY SWPPP BMP MEASURES UNTIL VEGETATION IS THOROUGHLY ESTABLISHED.
3. REMOVE TEMPORARY SWPPP BMP MEASURES ONCE VEGETATION IS THOROUGHLY ESTABLISHED.



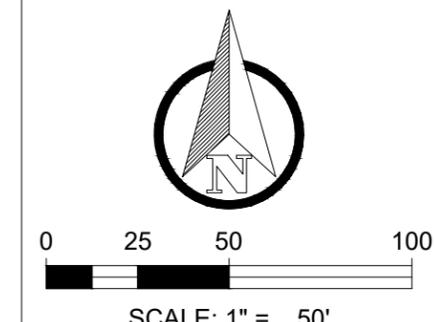
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PUBLIC ACCESS CNG STATION  
E.M.W. GAS ASSOCIATION  
614 U.S. Route 66 (W)  
MORIARTY, NM 87035  
EROSION CONTROL PLAN

SURVEY BY: N/A PROJECT #: 20104  
DRAWN BY: TED DATE: 08/12/2020  
CHECKED BY: JHB SCALE: 1"=50'

PROJECT: PUBLIC CNG STATION

SHEET DESC: EROSION CONTROL PLAN

SHEET: 27 OF: 27

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