



SILVER MOUNTAIN PUMP STATION IMPROVEMENTS PROJECT

Solicitation Number: CO-00425

Job No.: 19-6008

ADDENDUM 1

April 23, 2021

To Bidder of Record:

This addendum, applicable to work referenced above, is an amendment to the bid proposal, plans and specifications and as such will be a part of and included in the Contract Documents. Acknowledge receipt of this addendum by entering the Addendum number and issue date on the space provided in submitted copies of the bid proposal.

RESPONSES TO QUESTIONS

1. Question: Are you able to share any details on why this is rebidding?

Response: SAWS made a decision to rebid the project for competitive purposes due to the timing of the bid and the reduced interest in bidding. In addition, the cost estimate and milestones were further evaluated.

2. Question: Will SAWS be accepting alternates on the tank style?

Response: SAWS will not be accepting any alternate tank styles for the Silver Mountain Project.

3. Question: Section 01010 1.08 Security Contractor to Employ Uniformed Armed Guard during Non-working hours.....Section 01500 1.08 Security. Contractor to Employ Uniformed Armed Guard during all times work is being performed (working hours).....Is the intent to have Uniformed Armed Guard 24 Hours/day for the job duration including week-ends and Holidays?

Response: A uniformed armed guard will not be required for this project. See Changes to the Specifications 2 and 4.

4. Question: Will you please confirm the security guard requirement found in Section 01010 Part 1.08 Section A? The section requires.....“The CONTRACTOR to employ a uniformed armed guard at the construction site through the entire duration of construction during all non-working hours at the expense of the CONTRACTOR.”

Response: See response to Question #3.

5. Question: Will you please confirm the details on the compressor requirement? The plans do not show a compressor for the hydro tank, but one should be required. The spec does outline the controls, but I do not see the required model or approved equal description.

Response: The contractor shall reference to Sheet C8, Note 4 of the General Notes for the air compressor requirements.

6. **Question: Instruction to Bidders 24g....Apparent Low Bidder to submit Baseline Schedule.....last sentence says to submit with Bid. Does the Bid require a Schedule or only required from the Low Bidder at some point after?**

Response: The apparent low bidder will be required to submit a schedule within 24 hours of the bid opening. See Changes to the Specifications 1.

7. **Question: Bid Proposal Item No. 7 says Mob.& Demob. Not to exceed 10% of Items 1 thru 5. Specification under Schedule of Values/ Payment 4.e 8. says not to exceed 10% of Item 1. Please Clarify.**

Response: Line Item No. 7 shall not exceed 10% of Items 1 thru 5. See Changes to the Specifications 3.

8. **Question: Originally the Storage Tank had a “must be completed by date”. December 1, 2021 if I remember. Has the “hard date” for tank completion been removed?**

Response: The tank completion requirements have been removed from the Contract Documents.

9. **Question: Is there an approved disinfectant Contractor?**

Response: No, there is no pre-approved disinfectant contractor.

CHANGES TO THE SPECIFICATIONS

1. Supplemental Conditions Instruction to Bidders Section 24(g)
REVISE and REPLACE with the following:
“The Apparent Low Bidder is required to submit a baseline schedule within 24 hours of bid opening. The baseline schedule shall be a detailed, precedence-style critical path management schedule in Microsoft Project or Primavera format. The baseline schedule must encompass the entire contract duration from Notice to Proceed of June 15, 2021 to the Contract End Date. This baseline schedule must show a completion date that corresponds to the Contract End Date. The baseline schedule must be inclusive of all work necessary to complete the project including sufficient time necessary for submission and review of submittals, permits, etc. The schedule must be in adherence with the Right-of-Entry durations and deadline dates. Failure to provide this baseline schedule 24 hours within the bid opening may result in the bidder being considered non-responsive.”
2. Specification Section 01010-1.08A
REVISE and REPLACE with the following:
“The CONTRACTOR shall initiate a security program to protect the Work, CONTRACTOR's construction equipment and OWNER's facilities from theft, vandalism, and unauthorized entry for the duration of the construction period. Program shall be initiated at mobilization and shall be maintained throughout the construction duration until final OWNER acceptance of the complete project.”
3. Specification Section 01270-1.02(B)(4)(e)8
REVISE and REPLACE with the following:
“Total combined cost for Mobilization shall not exceed 10% of base price amount for item #1 through item #5. A Schedule of Values containing a total for Mobilization in excess of 10% shall be considered unbalanced and may be rejected. Refer to SAWS Specification Item 100.”
4. Specification Section 01500-1.08A
REMOVE section in its entirety.

CHANGES TO THE PLANS

1. Sheet E5, E7, and E20- REMOVE and REPLACE in its entirety.
 - a. E5- Electrical Site Plan
 - b. E7- Electrical Service Rack Layout
 - c. E20- Network System Detail

CLARIFICATIONS

None.

END OF ADDENDUM

This Addendum is 6 (six) pages in its entirety.

Attachments:

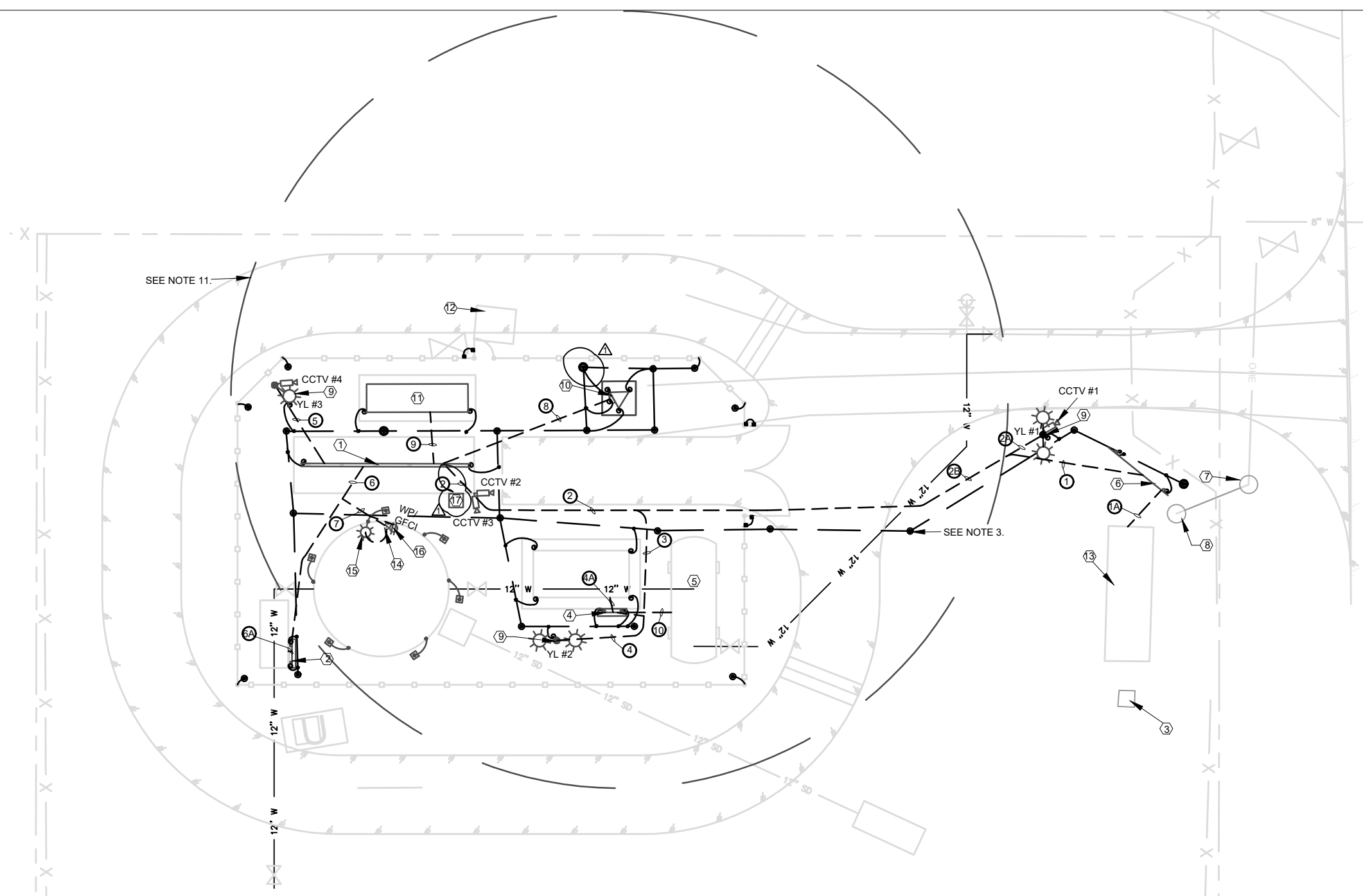
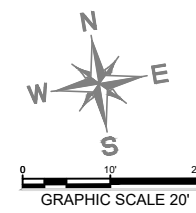
- E5- Electrical Site Plan
- E7- Electrical Service Rack Layout
- E20- Network System Detail



Kendall NeSmith, P.E.
Kimley-Horn and Associates, Inc



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Legend box containing symbols for grounding connections, gate flexible grounding straps, test wells, above grade tails, #4/0 stranded bare tinned copper wire, underground electric ductbanks, existing equipment, grounding connections, 15lb zinc anodes, ductbank schedule references, and security cameras.

- KEYED NOTES:
1 ELECTRICAL RACK
2 TANK ALTITUDE VALVE RACK
3 EXISTING ANTENNA TOWER
4 BOOSTER PUMP/AIR COMPRESSOR RACK
5 HYDROPNEUMATIC TANK
6 METER RACK
7 EXISTING TRANSFORMER POLE
8 EXISTING SERVICE POLE
9 YARD LIGHT (YL)
10 ANTENNA TOWER
11 GENERATOR
12 EXISTING PUMP SKID
13 EXISTING RACK AND SLAB
14 TANK TOP LIGHT SWITCH
15 TANK TOP LIGHT. CROUSE-HINDS V2LM2CHW2/UNV1
16 TANK TOP RECEPTACLE
17 COMMUNICATION HAND-HOLE

GENERAL NOTES:

- 1. EXISTING ELECTRICAL RACK AND EQUIPMENT AND CONCRETE SLAB TO BE DEMOLISHED AFTER NEW ELECTRICAL RACK AND EQUIPMENT IS FULLY ENERGIZED, TESTED AND OPERATIONAL. CONTRACTOR TO COORDINATE WITH SAWS FOR DEMOLITION.
2. SAWS RESERVES THE RIGHT TO ALL SAWS EQUIPMENT REMOVED BEFORE DISPOSAL. CONTRACTOR TO COORDINATE WITH SAWS PRIOR TO DISCARDING ANY OF SAWS EQUIPMENT. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL UNSALVAGEABLE EQUIPMENT.
3. CONTRACTOR TO REMOVE EXISTING SCADA AND INTECONNECT PANELS AFTER PROPOSED SCADA AND INTERCONNECT PANELS HAVE BEEN TESTED AND OPERATIONAL. CONTRACTOR TO COORDINATE WITH SAWS FOR DEMOLITION.
4. CONTRACTOR TO REMOVE EXISTING SCADA ANTENNA AFTER PROPOSED ANTENNA IS INSTALLED, TESTED AND OPERATIONAL.
5. ALL EXISTING CABLES/CONDUITS SHALL BE REMOVED. IF REMOVAL IS NOT POSSIBLE, ABANDONED CONDUITS SHALL BE PLUGGED AT GRADE.
6. ASBESTOS CONTAINING MATERIAL (ACM) COULD BE PRESENT IN THE ELECTRICAL DUCTBANKS. CONTRACTOR SHALL TEST AND PROPERLY DISPOSE OF ACM. IF DISCOVERED CONTRACTOR SHALL STOP, NOTIFY SAWS AND ENGINEER. CONTRACTOR SHALL HAVE PERSONNEL QUALIFIED TO INSPECT ACM.
7. CONTRACTOR TO FIELD TRACE EXISTING DUCTBANKS. CONTRACTOR SHALL USE CAUTION AS TO NOT DISRUPT THE FUNCTION OF THE EXISTING BOOSTER PUMPS STATION WHILE INSTALLING THE NEW DUCTBANK.

NOTES:

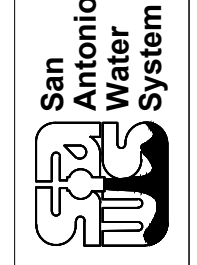
- 1. FENCE SHALL BE GROUNDED AT EACH CORNER WITH 3/4" X 10' GROUND ROD. RODS SHALL BE LOCATED INSIDE THE FENCE.
2. ALL GATES SHALL BE EQUIPPED WITH GROUNDING STRAPS. SEE LEGEND.
3. THERE SHALL BE A 20' SEPARATION BETWEEN GROUND RODS. SPACING SHOWN ON PLAN IS FOR REFERENCE ONLY AND MIGHT NOT BE TO SCALE.
4. ALL ABOVE GROUND CONDUIT SHALL BE INSTALLED AS TO NOT CREATE A TRIPPING HAZARD.
5. PVC COATED ALUMINUM CONDUIT SHALL BE PROVIDED IN AREAS WHERE CONCRETE COMES INTO CONTACT WITH ALUMINUM CONDUIT.
6. GENERATOR SHALL BE BONDED TO GROUNDING RING AT GROUNDING POINTS.
7. SEE SHEET E15 DETAIL D FOR GROUNDING DETAILS FOR ELECTRICAL RACK AND PUMP CONTROL PANEL.
8. CONTRACTOR SHALL OBSERVE NEC WORKING SPACE REQUIREMENTS WHEN LOCATING EQUIPMENT.
9. GROUND GRID MUST USE ALL EXOTHERMIC WELD TO MAKE A SOLID COMMON GROUNDING LOOP.
10. ALL GROUND GRID CONDUCTORS SHALL BE CONTINUOUS EXCEPT WHERE SPLICING IS UNAVOIDABLE.
11. PER COSA STANDARDS, ANTENNA TOWER SHALL BE LOCATED A MINIMUM OF 115% OF THE HEIGHT OF THE ANTENNA SUPPORT STRUCTURE AWAY FROM ANY RESIDENTIAL STRUCTURE.
12. OVERHEAD CONDUCTORS MUST HAVE A HORIZONTAL CLEARANCE WITHOUT WIND OF 10 FEET FOR VOLTAGES UP TO 50KV.
13. GROUND RESISTANCE SHALL MEASURE 5 OHMS OR LESS. CONTRACTOR TO ADD SUPPLEMENTAL GROUND RODS WHERE NECESSARY TO ACHIEVE THE RESISTANCE REQUIRED.

- 14. UTILITIES NOT SHOWN FOR CLARITY. PLEASE SEE CIVIL DRAWINGS FOR UTILITIES.
15. SEE SHEET E14 FOR ANTENNA TOWER DETAILS.
16. REFER TO SHEET E6 ONE-LINE DIAGRAM FOR ADDITIONAL CABLES NOT LISTED IN DUCTBANKS ON THIS SHEET.
17. TOWER GROUND RING MUST BE AT LEAST 2 FEET AWAY FROM TOWER BASE. TOWER RING CONDUCTOR SIZE TO BE #4/0 BARE TINNED COPPER AND BURIED THIRTY INCHES BELOW GRADE. BOND FENCE TO TOWER GROUND GRID.
18. GROUND WIRE TO BE INSTALLED NOT LESS THAN 30" DEEP. CONTRACTOR SHALL DETERMINE LOCATION OF GROUND WIRE BASED ON UNDERGROUND CONDITIONS. VERIFY THERE ARE NO UTILITY CONFLICTS PRIOR TO PLACEMENT.
19. SEE DRAWING E15 FOR GROUNDING DETAILS.
20. MEASURE RESISTANCE OF GROUND AND REPORT FINDINGS TO OWNER.
21. GROUND STORAGE TANK GROUNDING SHALL BE ACCOMPLISHED BY USING SIX(6) 15LB ZINC ANODES. THE TANK SHALL BE CONNECTED TO THE ANODES USING INSULATED #2/0 COPPER WIRE. THE SPLICE CONNECTING THE #2/0 WIRE TO THE ANODE SHALL BE ELECTRICALLY INSULATED FROM THE SOIL USING HEAT SHRINK. COPPER SHALL NOT BE ALLOWED TO CONTACT THE SOIL. REFER TO SHEET E15 DETAIL D FOR TANK CONNECTION.
22. ALL ABOVE GROUND CABLE TO BE ROUTED INSIDE A SCHEDULE 80 PVC CONDUIT. FASTEN TO TANK FOUNDATION AS NEEDED.
23. CABLES CONDUIT AND DUCTBANK MUST BE INSTALLED AND READY TO CONNECT FROM EXISTING MAIN DISTRIBUTION PANEL TO SERVICE TAP.
24. TANK TOP LIGHT, LIGHT SWITCH AND RECEPTACLE TO BE LOCATED ADJACENT TO LADDER. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION OF LADDER.

Table with columns: No., Description, Dm., Approved, Date. Includes entry for ADDENDUM 2.

GRUBB ENGINEERING, INC. ELECTRICAL POWER SYSTEMS DESIGN AND TESTING
TBPE FIRM REGISTRATION NO. 3904
2727 N. St. Mary's St. San Antonio, TX 78212

Date: MARCH 2021
Drawn by: SG
Designed by: BD, CG
Checked by: SM
Scale: SHOWN ON SHEET



SAN ANTONIO WATER SYSTEM
SILVER MOUNTAIN PUMP STATION IMPROVEMENTS PROJECT
ELECTRICAL SITE PLAN

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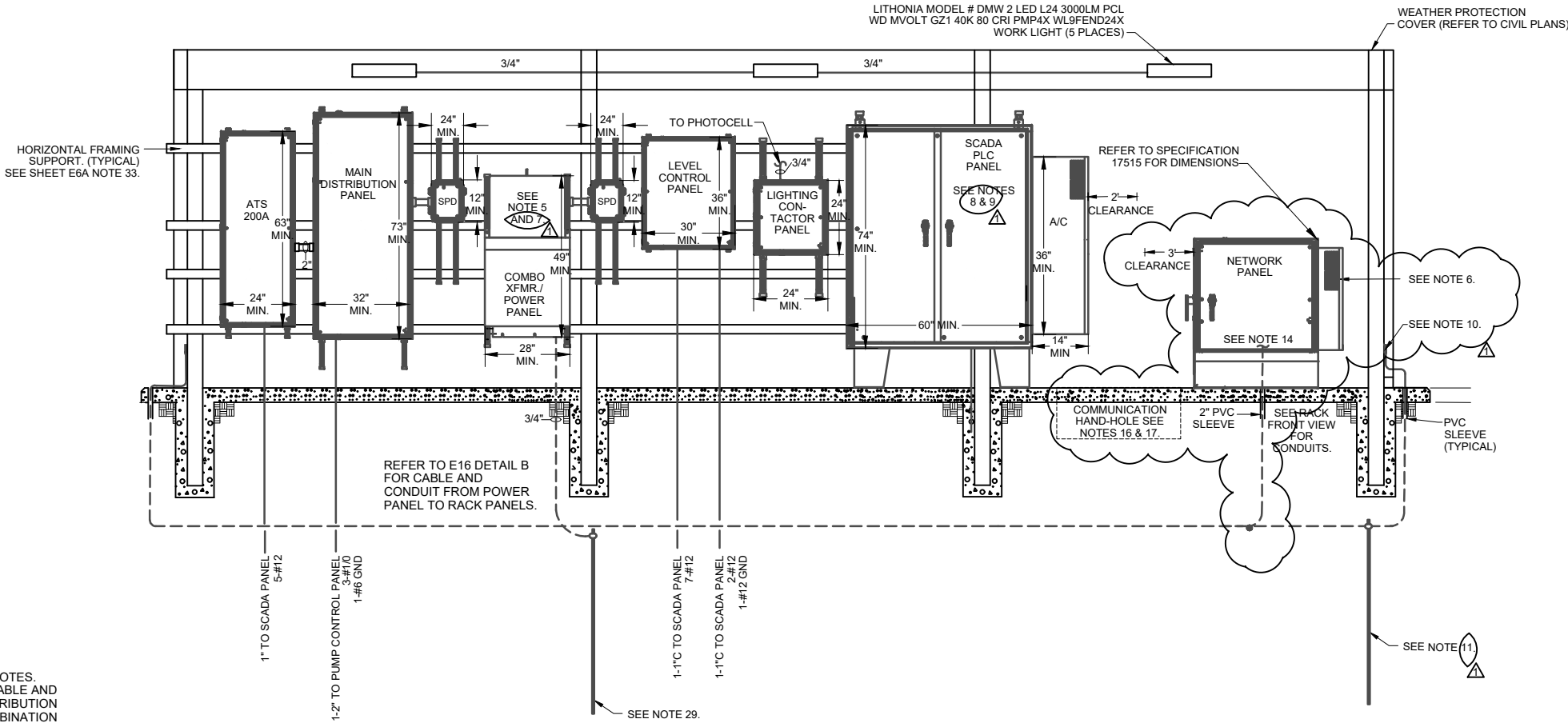
REVISIONS	No.	Description	Dm.	Approved	Date
	1	ADDENDUM 2			

INFORMATION
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 ELECTRICAL POWER SYSTEMS
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 TBPE FIRM REGISTRATION NO. 3904
 2727 N. St. Mary's St.
 San Antonio, TX 78212
 Tel No. 210-658-7260
 Fax No. 210-658-9805

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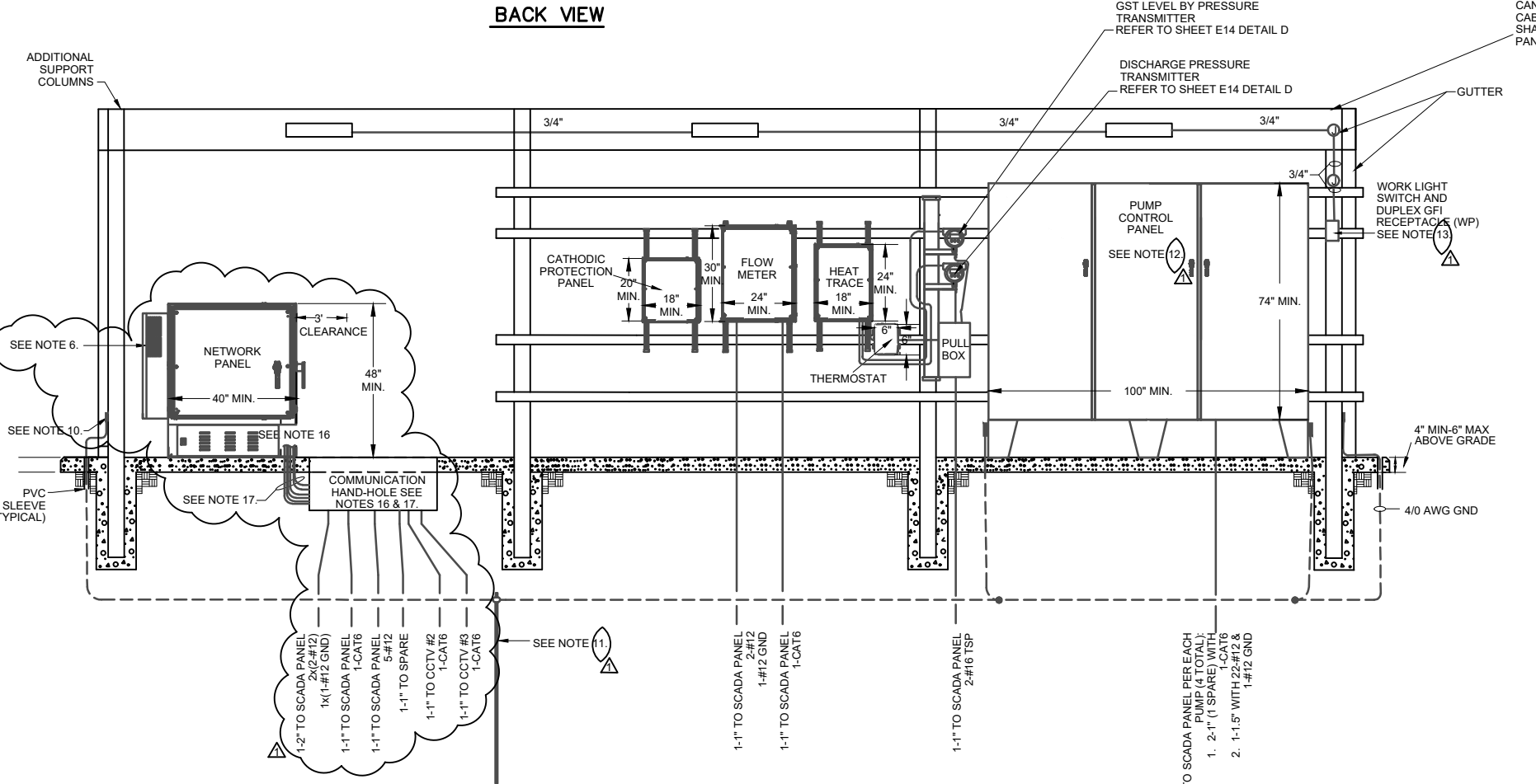


SAN ANTONIO WATER SYSTEM
 SILVER MOUNTAIN PUMP STATION
 IMPROVEMENTS PROJECT
 ELECTRICAL SERVICE
 RACK LAYOUT



- NOTES:**
- REFER TO SHEET E6A FOR DETAIL NOTES.
 - REFER TO SHEET E6 FOR POWER CABLE AND CONDUIT BETWEEN ATS, MAIN DISTRIBUTION PANEL, PUMP CONTROL AND COMBINATION POWER PANEL.
 - CABLE AND CONDUIT IS SHOWN FOR ABOVE GROUND CONNECTIONS BETWEEN PANELS ON RACK ONLY. CONDUIT SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. REFER TO DUCTBANK LAYOUTS FOR BURIED CABLE AND CONDUIT LEAVING THE RACK. REFER TO SPECIFICATIONS FOR ENCLOSURE DETAILS.
 - MANUFACTURER STANDARD SIZE. DIMENSION SHOWN IS FOR SCHNEIDER ELECTRIC MINI POWER ZONE.
 - OFFSET AIR CONDITIONER FROM CANOPY LEG. ALLOW SPACE FOR MAINTENANCE AND REMOVAL OF AIR CONDITIONER.
 - PROVIDE A SURGE PROTECTIVE DEVICE IN A SEPARATE ENCLOSURE ATTACHED TO THE ADJACENT TO THE MDP AND COMBO TRANSFORMER/POWER PANEL DEVICE MUST ADHERE TO UL1449 4TH EDITION STANDARDS. REFER TO SPECIFICATION 16451. PROVIDE BREAKER FOR SURGE PROTECTIVE DEVICE AS RECOMMENDED BY MANUFACTURER.
 - SEE SHEETS E12-E13 FOR SCADA PANEL INFORMATION.
 - 24" MINIMUM FROM GRADE TO BOTTOM OF ENCLOSURES.
 - GROUNDING CONNECTION TO SERVICE RACK. SEE SHEET E15 DETAIL D. (TYPICAL). APPROVED GROUNDING ELECTRODE AND CLAMP FURNISHED AND INSTALLED BY CONTRACTOR. GROUND ROD SHALL BE 3/4" X 10'. CONNECTION IS TO BE MADE BELOW FINISH GRADE. GROUND RESISTANCE OF INSTALLED ROD W/O CONNECTIONS SHALL BE MEASURED AND REPORTED TO THE ENGINEER.
 - ALL ELECTRICAL COMPONENTS SHALL BE NEMA RATED.
 - PROVIDE LABELS FOR LIGHT SWITCH AND RECEPTACLE.
 - BOND TELECO BUSBAR TO GROUND RING. USE 2/0AWG TINNED COPPER.
 - ALL DATA/COMMUNICATIONS CONDUITS NEED TO FEED THROUGH COMMUNICATIONS HAND-HOLE LOCATED IN FRONT OF CANOPY SLAB NEAR NETWORK ENCLOSURE. REFER TO SHEET E5. HANDHOLE TO HOUSE SERVICE/MAINTENANCE CABLE LOOPS.
 - ALL DATA CABLES TO ENTER THE TELCO SIDE COMPARTMENT FIRST. ALL FIELD DATA CABLES SHALL BE CONNECTED TO DATA LPU/SPD BEFORE ENTERING NETWORK SIDE.
 - 2-2" CONDUIT FOR CAT6 CABLE
1-2" FOR POWER
1-2" SPARE
1-2" FOR GROUNDING
 - NOT ALL CONDUIT IS SHOWN ON THIS SHEET. REFER TO DUCTBANK DETAILS FOR OTHER CONDUIT AND CABLE REQUIREMENTS.

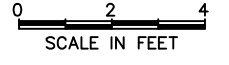
BACK VIEW



FRONT VIEW

A ELECTRICAL SERVICE RACK LAYOUT

SCALE: AS SHOWN



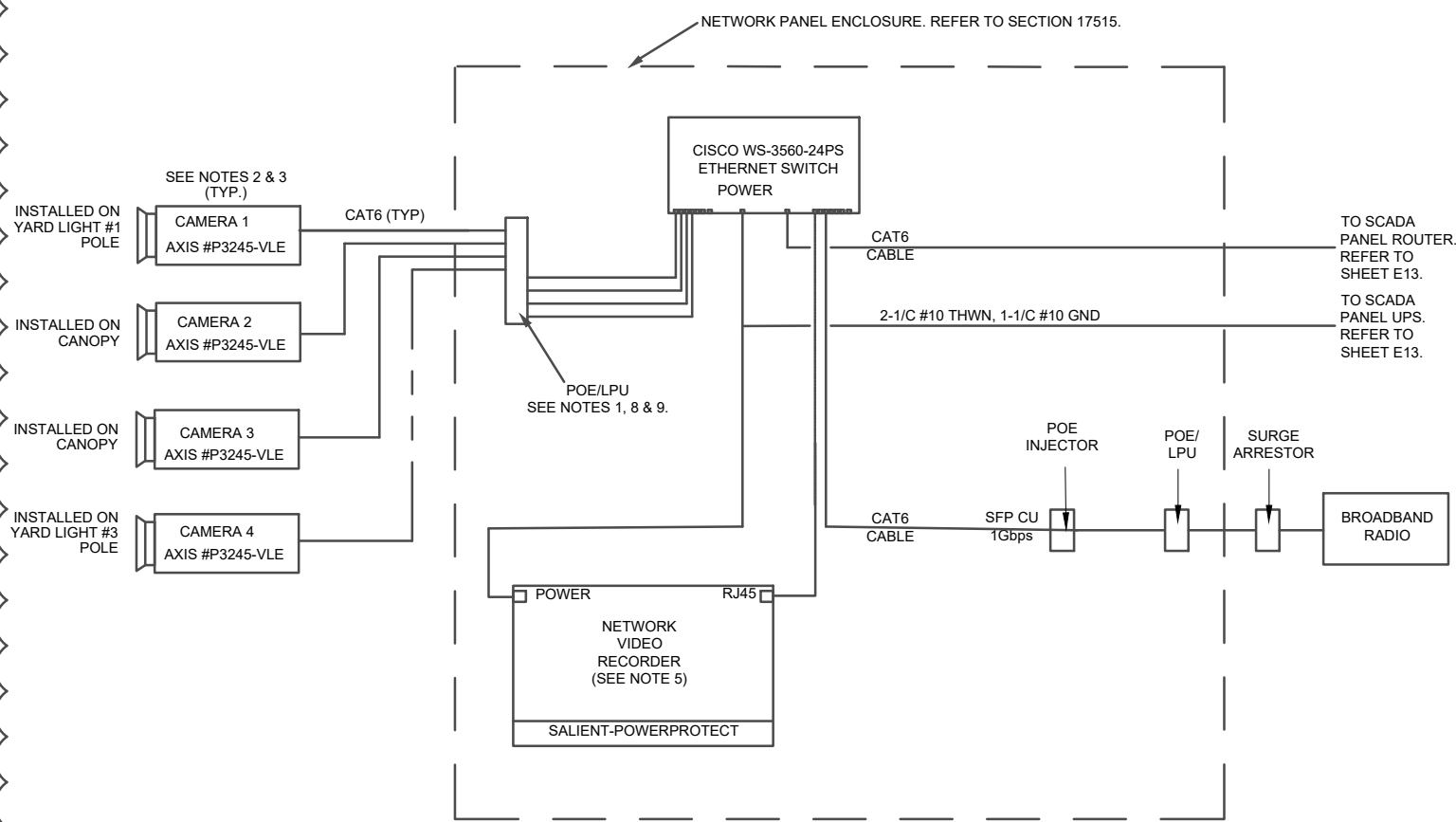
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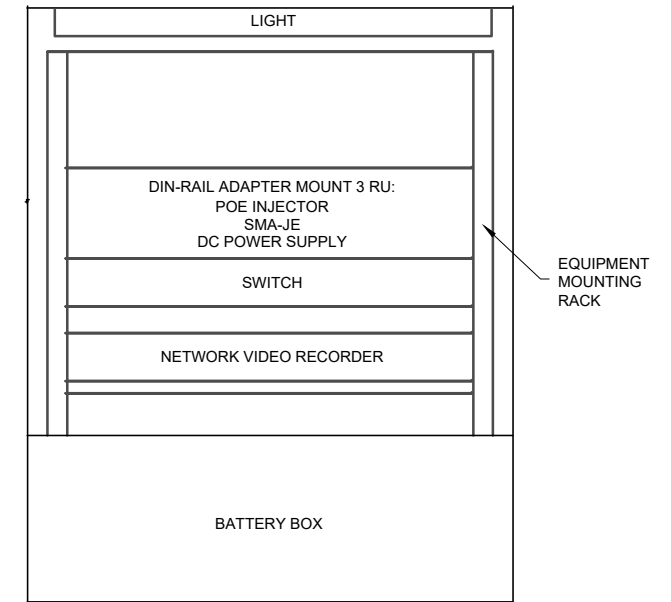


SAN ANTONIO WATER SYSTEM
 SILVER MOUNTAIN PUMP STATION
 IMPROVEMENTS PROJECT
 NETWORK SYSTEM DETAIL



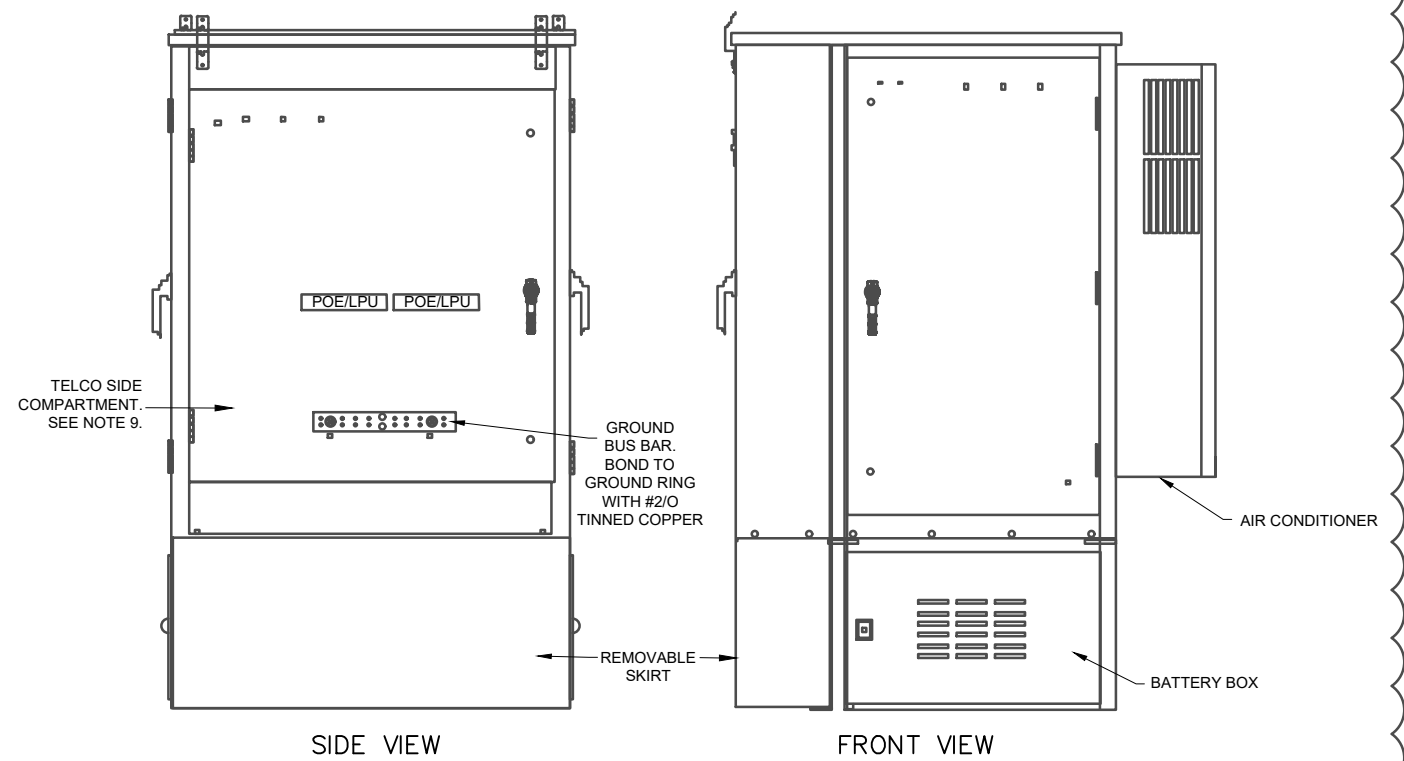
- NOTES:
1. SURGE PROTECTIVE DEVICE/LIGHTNING PROTECTION UNIT TO BE PROVIDED BY CONTRACTOR FOR CAT6 CABLE. MANUFACTURER SHALL BE TRANSTECTOR ONLY. MODEL NUMBERS: CHASSIS 1101-1137 AND SPD MODULE 1000-1117. MODULES MUST BE USED PER DATA LINE.
 2. MOUNT CAMERAS AS SHOWN ON SITE PLAN. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING MOTION SENSORS FOR ALL CAMERAS. SENSORS ARE NOT SHOWN ON THIS DIAGRAM. MULTIPLE CHASSIS AND SPD MODULES ARE REQUIRED.
 3. CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING SECURITY CABLE AND CONDUIT FROM THE SECURITY EQUIPMENT TO SECURITY PANEL.
 4. REFER TO SPECIFICATION 17550 FOR SECURITY EQUIPMENT DETAILS.
 5. ALL ABOVE GROUND CONDUIT SHALL BE RIGID ALUMINUM.
 6. ALL CABLES, CONNECTORS, & PINOUT CONNECTIONS SHALL BE SUBMITTED TO OWNER FOR APPROVAL.
 7. TIA/EIA 568B OSP CAT 6, #23 AWG ETHERNET OUTDOOR, UL LISTED, 23 AWG WITH WATERPROOF WATERTIGHT RATED IP67 RATED RJ45 CONNECTORS AT EACH ENDS. (NOT EXCEED 300 FEET) CABLING WILL BE SUPERIOR ESSEX TYPE BBDG₆ CABLE, COPPER CLAD CABLING, PART NUMBER#: ENDURAGAIN OSP SHIELDED SUPERIOR ESSEX 04-001-64, NO SUBSTITUTIONS.
 8. ALL DATA/COMMUNICATIONS CONDUITS NEED TO FEED THROUGH COMMUNICATIONS HAND-HOLE LOCATED IN FRONT OF CANOPY SLAB NEAR NETWORK ENCLOSURE. REFER TO SHEET E4 FOR HAND-HOLE DETAIL. HAND-HOLE TO HOUSE SERVICE/MAINTENANCE CABLE LOOPS.
 9. ALL DATA CABLES TO ENTER THE TELCO SIDE COMPARTMENT FIRST. ALL FIELD DATA CABLES SHALL BE CONNECTED TO DATA LPU/SPD BEFORE ENTERING NETWORK SIDE.

A NETWORK SYSTEM CONNECTION DIAGRAM
 SCALE: N.T.S.



- NOTES:
1. REFER TO SPECIFICATIONS 16050, 17550 AND SHEET E-6.
 2. INSTALL TAG LABELED "NETWORK PANEL" ON FRONT EXTERIOR OF PANEL.
 3. CONTRACTOR SHALL PROVIDE ADEQUATE SPACE FOR COMPONENTS FROM ENCLOSURE EDGES.
 4. PANEL SHALL BE AMERICAN PRODUCTS AM32P-4042-16/32RU. NOTE THAT PANEL DIMENSIONS, DOORS, ETC. ARE NOT SHOWN ABOVE.
 5. SHELVING SHALL BE USED TO MOUNT EQUIPMENT. DIN RAIL IS NOT ALLOWED.

B NETWORK PANEL INNER LAYOUT
 SCALE: N.T.S.



C NETWORK PANEL
 SCALE: N.T.S.

