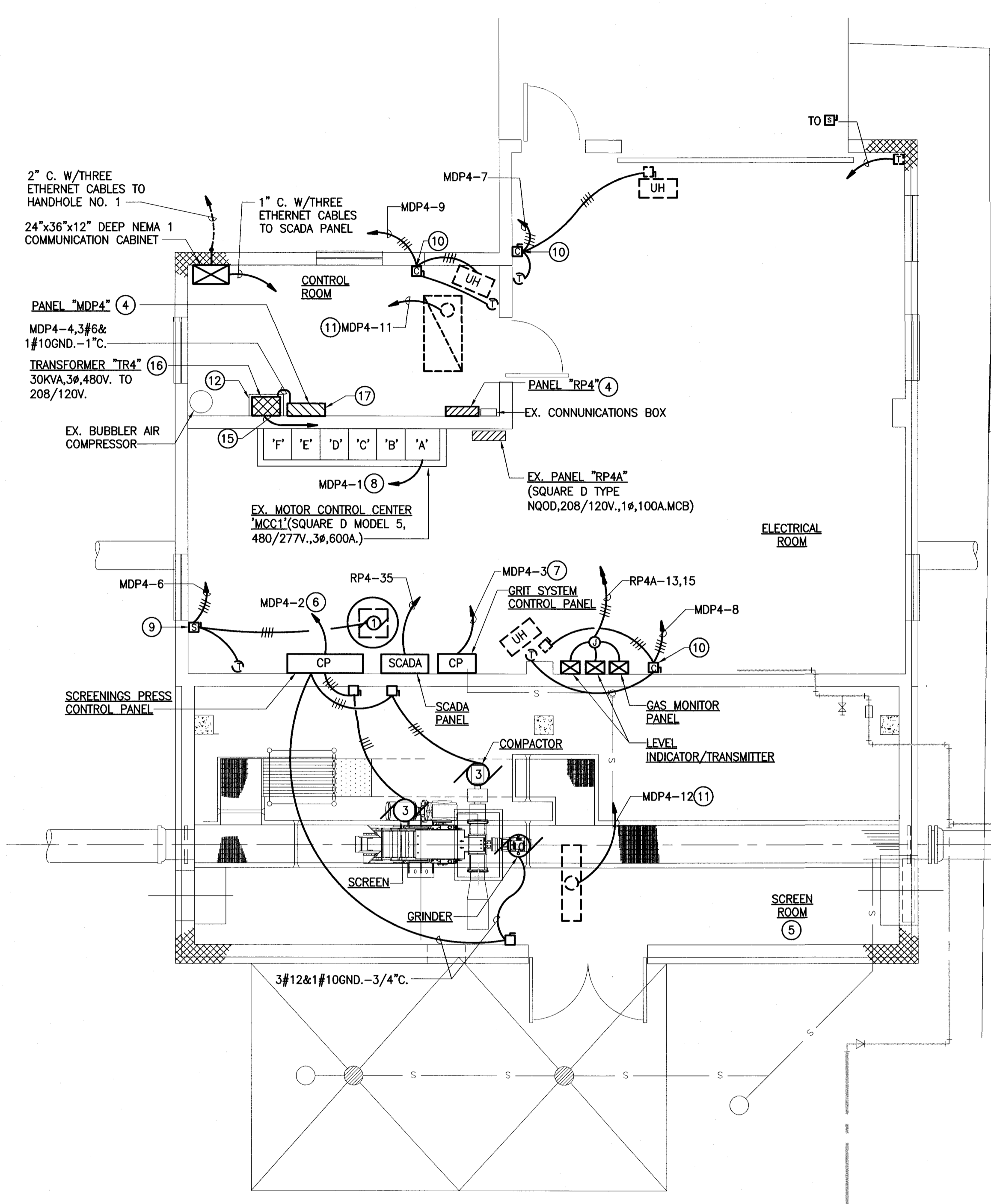


EXISTING HEADWORKS BLDG. - DEMOLITION PLAN  
SCALE: 1/4" = 1'-0"



HEADWORKS BLDG. - MODIFICATION PLAN  
SCALE: 1/4" = 1'-0"

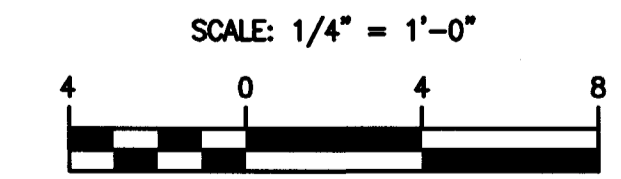
**GENERAL NOTES:**

1. ALL EXISTING ELECTRICAL WORK IS TO REMAIN UNLESS OTHERWISE INDICATED.
2. ALL EXISTING EQUIPMENT THAT IS BEING REMOVED OR EXISTING EQUIPMENT THAT IS TO REMAIN BUT PROVIDED WITH NEW ELECTRICAL CONNECTIONS (POWER SUPPLY OR CONTROL) SHALL HAVE ITS WIRING REMOVED COMPLETE BACK TO SOURCE. ASSOCIATED EXPOSED CONDUIT SHALL BE REMOVED; CONCEALED CONDUIT SHALL BE ABANDONED IN PLACE.

**DRAWING NOTES:**

1. RX. MCC IN ITS ENTIRETY & ALL ASSOCIATED CONDUIT & WIRING COMPLETE TO EXISTING EQUIPMENT SERVED. RX. EXISTING INCOMING UNDERGROUND SERVICE FEEDER FROM EX. SDSB.
2. EX. EQUIPMENT TO BE REMOVED. DISCONNECT & REMOVE ALL ASSOCIATED CONDUIT & WIRING COMPLETE BACK TO SOURCE.
3. REMOVE ALL ASSOCIATED CONDUIT & WIRING COMPLETE BACK TO SOURCE.
4. SEE SCHEDULE, DRAWING NO. E-15.
5. ALL ELECTRICAL EQUIPMENT, DEVICES ETC. & WORK INSTALLED WITHIN THIS AREA SHALL BE EXPLOSION-PROOF CONSTRUCTION, SUITABLE FOR CLASS 1, DIVISION 1 ENVIRONMENT. SEALING FITTINGS SHALL BE UTILIZED ON ALL CONDUITS ENTERING OR LEAVING THIS AREA.
6. 3#8&1#10GND.-3/4".
7. 3#10&1#10GND.-3/4".
8. 4#1/0&1#6GND.-2".
9. NEMA SIZE 1, NEMA 1 ENCLOSED WITH MCP BREAKER, 120V. CONTROL POWER TRANSFORMER, H-0-A SELECTOR SWITCH, RED & GREEN INDICATING LIGHTS & AUX. CONTACT FOR M.O.D. OPERATION. CONNECT THERMOSTAT TO AUTO. LEG OF H-0-A.
10. 30A. RATED, NEMA 1 ENCLOSED WITH 3P, 20A. BREAKER, 120V. CONTROL POWER TRANSFORMER, H-0-A SELECTOR SWITCH, & RED & GREEN INDICATING LIGHTS. CONNECT THERMOSTAT TO AUTO. LEG OF H-0-A.
11. CONFIRM LOCATION OF EX. CIRCUIT HOMERUN PRIOR TO ROUGHIN.
12. PROVIDE 4" HIGH HOUSE KEEPING PAD FOR TRANSFORMER. SET TRANSFORMER MIN. 4" FROM REAR WALL.
13. FURNISH & INSTALL IN EX. PANEL RP4A SPACE THE FOLLOWING BRANCH BREAKERS:
  - a. SPACES NO. 13 & 15, EA. 1P., 20A. TO SERVE THE GAS MONITOR PANEL & THE LEVEL INDICATOR/TRANSMITTERS.
14. RX. ALARM ANNUNCIATOR (LOCATED IN TOP OF MCC1-F), ALL APPURTENANCES & ALL INCOMING & OUTGOING WIRING COMPLETE BACK TO ORIGIN. PROVIDE SCREW ATTACHED COVER PLATES TO COVER ALL OPENINGS & PAINTED TO MATCH EX.
15. 4#2&1#6 GND.-1 1/4". TO PANEL RP4.
16. RECONNECT EX. #8 GROUNDING CONDUCTOR TO NEW TRANSFORMER.
17. EX. 4/6 DUCTBANK PRESENTLY TURNS UP INTO MCC SECTION "D". ONCE MCC IS REMOVED, PROVIDE A NEMA 1 WIREWAY TO ACCOMMODATE ENTRY OF THE 4/6 DUCTBANK SDSB FEEDER EXTENSION INTO PANEL MDP4 & OTHER CIRCUIT USES AS NEEDED. WIREWAY SHALL BE MINIMUM 12"SQ.X48"LONG.
18. RECONNECT EX. BRANCH CIRCUIT WIRING OF THOSE CIRCUITS INDICATED TO REMAIN (REFER TO NEW PANEL RP4 SCHEDULE, DWG. NO. E-15) TO NEW PANEL RP4 PROVIDING ADDITIONAL CONDUIT & WIRING AS NEEDED.

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**Hatch Mott MacDonald**  
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PROFESSIONAL CERTIFICATION  
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.  
EXPIRATION DATE: 7/16/2015 LICENSE NO.: 34699

DESIGNED DKJ  
DETAILED LHD  
CHECKED DKJ  
APPROVED DKJ  
DATE



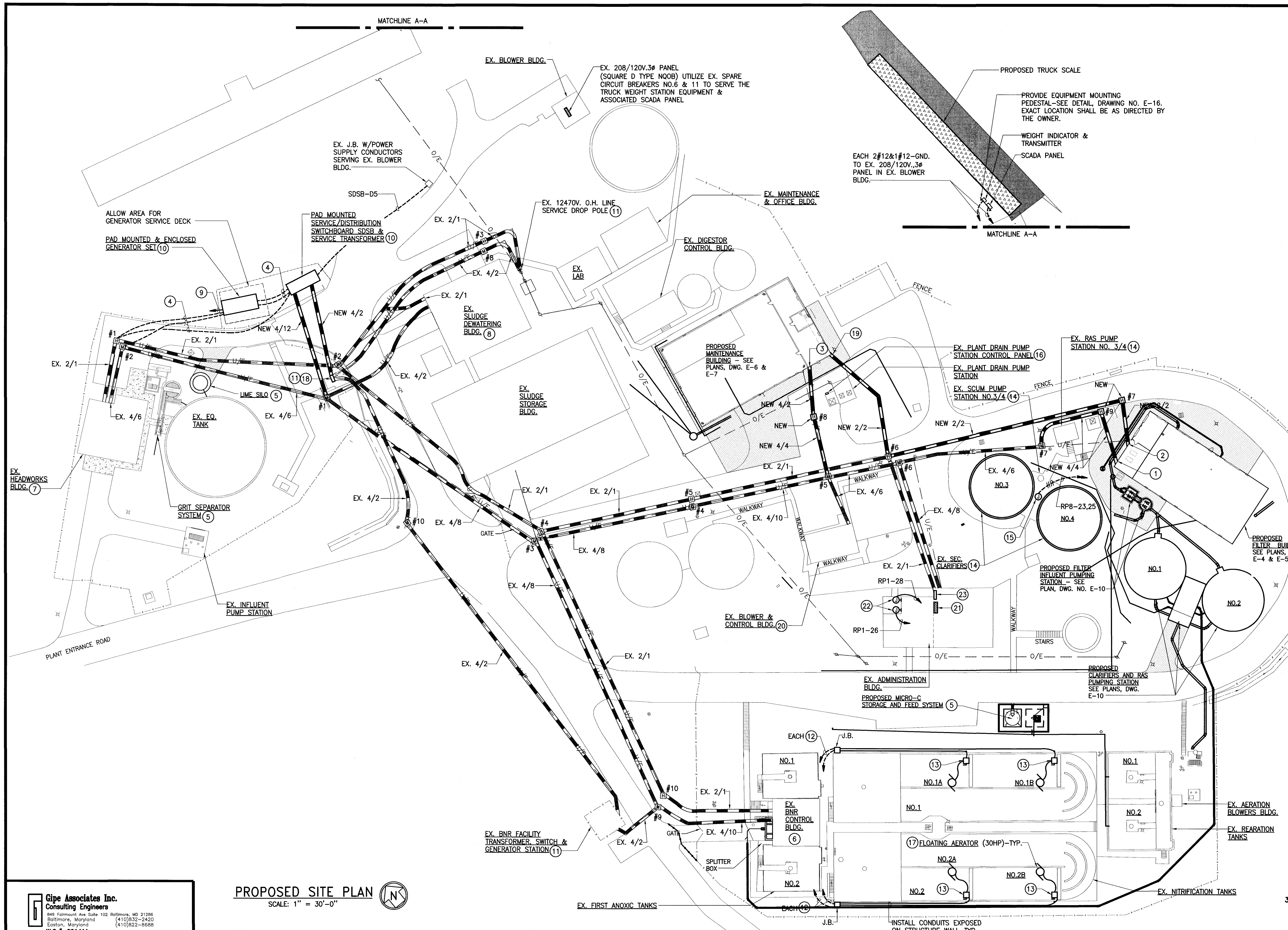
**MARYLAND ENVIRONMENTAL SERVICE**  
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WATER AND WASTEWATER  
JAMES M. HARKINS DIRECTOR  
JOHN KANE, ESQ. DIRECTOR W/W/W  
ELLEN FRKETIC CHIEF OF ENGINEERING  
MOHAMED MOHAMED PROJECT MANAGER

NO.	DATE	DATE	BY	CK

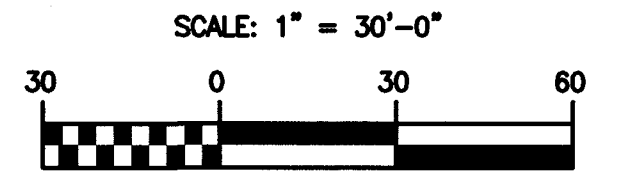
**MCI WASTEWATER TREATMENT PLANT ENR UPGRADE**  
PLAN - EXISTING HEADWORKS BUILDING - ELECTRICAL  
SCALE: AS NOTED

MES PROJECT ID NO. 15-02-17  
HMM PROJECT NO. 271235  
SHEET 107 OF 179  
DRAWING NO. E-3



- DRAWING NOTES:**
- 1 INTO PANEL MDP8.
  - 2 1-2" INTO SCADA PANEL; 1-2". INTO COMMUNICATION CABINET
  - 3 INTO PANEL LDP9.
  - 4 REFER TO SINGLE LINE DIAGRAM, DWG. NO. E-13 FOR NUMBER OF CONDUITS & WIRING REQUIRED.
  - 5 REFER TO PLAN, DRAWING NO. E-11.
  - 6 REFER TO PLAN, DRAWING NO. E-8.
  - 7 REFER TO PLAN, DRAWING NO. E-3.
  - 8 REFER TO PLAN, DRAWING NO. E-9.
  - 9 DIRECTION OF ENGINE EXHAUST & RADIATOR DISCHARGE.
  - 10 REFER TO DIAGRAM, DRAWING NO. E-13. REFER TO CONCRETE PAD DETAIL, DRAWING NO. E-18.
  - 11 REFER TO SINGLE LINE DIAGRAM, DRAWING NO. E-13.
  - 12 3 #6 & 1 #8 GND. - 1". TO BNR CONTROL BLDG. MCC VIA NEW PULLBOX ON EXTERIOR BLDG. WALL. REFER TO PLAN, DWG. NO. E-8.
  - 13 MOUNT DISCONNECT SWITCH TO ACCESS BRIDGE HANDRAIL. PROVIDE HANDRAIL MOUNTED BACKPLATE EQUIPMENT MOUNTING ASSEMBLY - SEE DETAIL, DRAWING NO. E-18.
  - 14 REFER TO SURVEY PHOTO'S SHOWN ON DRAWING NO. E-16 FOR MODIFICATIONS.
  - 15 EXISTING J.B. FOR POWER SUPPLY TO CLARIFIER POLE LIGHT/RECEPTACLES. DISCONNECT & REMOVE EXISTING WIRING COMPLETE BACK TO EX. CHLORINATION/DECHLORINATION FACILITY WHICH IS BEING DEMOLISHED. ABANDONE CONDUIT IN PLACE. PROVIDE NEW POWER SUPPLY CIRCUITRY AS SHOWN.
  - 16 DISCONNECT EX. POWER SUPPLY & REMOVE WIRING BACK TO SOURCE. REMOVE EX. EXPOSED CONDUIT & ABANDONE EX. CONCEALED CONDUIT IN PLACE. PROVIDE NEW POWER SUPPLY AS SHOWN ON SINGLE LINE DIAGRAM, DWG. NO. E-13.
  - 17 WITH INTEGRAL POWER CABLE COMPLETE TO DISCONNECT SWITCH.
  - 18 DEADFRONT CABLE JUNCTION PEDESTAL.
  - 19 INTO COMMUNICATION CABINET.
  - 20 REFER TO PLAN, DRAWING NO. E-12.
  - 21 EX. PANEL RP1 (TWO SECTION, SQUARE D TYPE NQ08, 208/120V, 3Ø) LOCATED IN GARAGE. FURNISH & INSTALL IN EX. CIRCUIT SPACES NO. 26 & 28 (LEFT SIDE PANEL) 1P, 20A. BREAKERS TO SERVE THE NEW SCADA SYSTEM.
  - 22 PROVIDE CIRCUIT JUNCTION POINT IN OPERATION POINT IN OPERATORS OFFICE (MAIN LEVEL) & LAB/OFFICE (LOWER LEVEL).
  - 23 EX. TELEPHONE BACKBOARD.

**PROPOSED SITE PLAN**  
SCALE: 1" = 30'-0"



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NO.	DATE	DATE	BY	CK

**MCI WASTEWATER TREATMENT PLANT ENR UPGRADE**  
**PROPOSED SITE PLAN**  
SCALE: 1" = 30'

MES PROJECT ID NO. 15-02-17  
HMM PROJECT NO. 271235  
SHEET 106 OF 179  
DRAWING NO. E-2