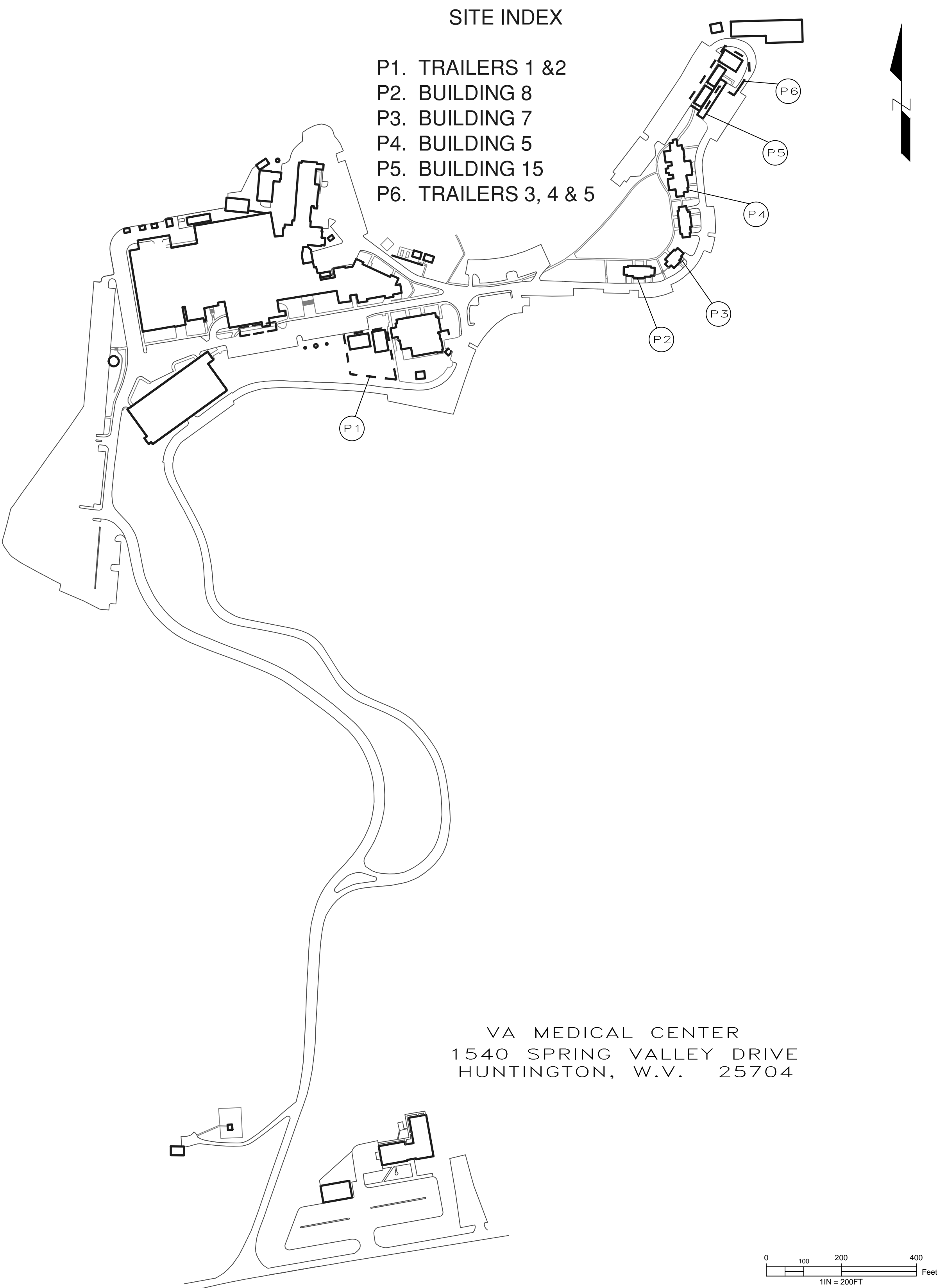


VA MEDICAL CENTER

HUNTINGTON, WEST VIRGINIA

PROJECT #581-14-110

EMERGENCY ELECTRIC BUILDING 7 & 8



SITE INDEX

- P1. TRAILERS 1 &2
- P2. BUILDING 8
- P3. BUILDING 7
- P4. BUILDING 5
- P5. BUILDING 15
- P6. TRAILERS 3, 4 & 5


VA MEDICAL CENTER
1540 SPRING VALLEY DRIVE
HUNTINGTON, W.V. 25704

APPROVAL SIGNATURE INDEX

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MEDICAL CENTER DIRECTOR	DATE
ASSOCIATE MEDICAL CENTER DIRECTOR	DATE
CHIEF OF ENGINEERING	DATE
INFECTION CONTROL	DATE
SAFETY OFFICER	DATE
M & O GENERAL FOREMAN	DATE

**UNITED STATES DEPARTMENT OF VETERANS AFFAIRS**
VA MEDICAL CENTER - 1540 SPRING VALLEY DRIVE - HUNTINGTON WV 25704

DRAWING TITLE: TITLE & INDEX		PROJECT TITLE: EMERGENCY ELECTRIC BUILDING 7 & 8	
APPROVED: CHRIS ECKLES ASS'T CHIEF, ENGINEERING	BUILDING:	PROJECT NUMBER: 14-110	DRAWING NUMBER: T-1 DWG. 1 OF 7
APPROVED: JOHN KLIM CHIEF, ENGINEERING	DRAWN: JOSEPH PRINE	DATE: 05-30-14	

GENERAL NOTES AND CONDITIONS

1. CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL BID ITEMS AND VERIFY ALL QUANTITIES REQUIRED FOR PROJECT AND WORK AREA CONDITIONS PRIOR TO BIDDING.
2. ALL WORK SHALL BE ACCOMPLISHED DURING NORMAL BUSINESS HOURS (8:00 AM - 4:30 PM, MONDAY THROUGH FRIDAY) UNLESS SPECIFIED OTHERWISE. ALL POWER SHUTDOWNS OR OUTAGES ARE TO TAKE PLACE ON WEEKENDS OR NON-BUSINESS HOURS.
3. PROVIDE SUBMITTALS OR SHOP DRAWINGS FOR ALL PRODUCTS.
4. CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT, SERVICES, PERMITS, AND MATERIALS TO COMPLETE ALL WORK OUTLINED IN THE DRAWINGS AND SPECIFICATIONS, INCLUDING WORK NOT SPECIFICALLY SHOWN BUT REASONABLY IMPLIED.
5. ALL WORK SHALL CONFORM TO ALL CODES AND REQUIREMENTS OF FEDERAL AND STATE REGULATORY AGENCIES HAVING JURISDICTION. THE WORK SHALL CONFORM TO THE LATEST EDITION OF THE WEST VIRGINIA UNIFORM CONSTRUCTION CODE, INTERNATIONAL BUILDING CODE, OR THE NATIONAL ELECTRIC CODE: NFPA 70 WHICH EVER IS THE MOST STRINGENT REGULATION SHALL APPLY.
6. ALL TOOLS USED IN THIS PROJECT SHALL BE PROPERLY SECURED AT ALL TIMES BY THE CONTRACTOR TO PREVENT ANY OF THESE TOOLS BEING A HAZARD TO PATIENTS, VISITORS, AND STAFF. CONTRACTOR SHALL MAINTAIN TRAFFIC CONTROL BY USE OF SIGNAGE AND TRAFFIC DIRECTION PERSONNEL.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL RULES AND REGULATIONS ARE BEING OBSERVED AT ALL TIMES AND THE CONDUCT OF ALL THOSE EMPLOYED DIRECTLY OF INDIRECTLY BY HIM ON THE PREMISES. THE CONTRACTOR IS RESPONSIBLE FOR ALL SIGNAGE, BARRIERS, AND OTHER MEANS TO PROVIDE WARNING WITHIN THE CONTRACTORS CONSTRUCTION AREA. COORDINATE ALL PLACEMENT WITH VA SAFETY AND COR.
8. THE CONTRACTOR AT HIS EXPENSE SHALL BE RESPONSIBLE FOR ACQUIRING VA PICTURE I.D. BADGES FOR EACH MEMBER OF HIS WORK FORCE BEFORE ANY MEMBER WILL BE ALLOWED TO PERFORM WORK ON VA PREMISES. PROCESS I.D. APPLICATIONS THROUGH COR.
9. LABOR RATE TO BE POSTED IN WORK AREA.
10. ABSOLUTELY NO VA TOOLS OR MATERIAL WILL BE LOANED OR GIVEN BY THE VA TO ANY MEMBER OF THE CONTRACTORS WORKFORCE AT ANY TIME.
11. CONTRACTOR SHALL ONLY COORDINATE WITH THE COR.
12. EACH WORKER WILL BE REQUIRED TO WEAR APPROPRIATE SAFETY EQUIPMENT AT ALL TIMES (I.E. SAFETY SHOES, EAR PLUGS, SAFETY GLASSES, HARD HAT, ETC.) AND IS RESPONSIBLE TO INSURE THAT NON-WORKERS ARE PREVENTED FROM IN ANY WORK AREA.
13. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING VA FACILITIES, LANDSCAPING, AND PROPERTY. ANY DAMAGED PROPERTY SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE VA.
14. ALL CONTRACTED EMPLOYEES SHALL HAVE A MINIMUM 10-HOUR OSHA APPROVED SAFETY TRAINING. PROJECT SUPERVISORS SHALL HAVE MINIMUM 30-HOUR OSHA APPROVED SAFETY COURSE. PROOF OF COMPLETION SHALL BE PROVIDED BEFORE ANY WORK SHALL COMMENCE.
15. CONTRACTOR SHALL PROTECT EXISTING FURNISHINGS NOT SCHEDULED TO BE RENOVATED, FROM DAMAGE DURING THE COURSE OF THE PROJECT. DAMAGED ITEMS SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
16. UNLESS STATED OTHERWISE, GENERAL NOTES APPLY TO ALL DRAWING SHEETS.
17. SEE SHEET SCALE FOR CORRECT DRAWING SIZE. DRAWINGS ARE PRINTED AT 22X34.
18. CONTRACTOR SHALL COMPLETE A VA EQUIPMENT FORM FOR ALL NEW MAJOR EQUIPMENT INSTALLED DURING THE PROJECT. BLANK EQUIPMENT FORMS WILL BE PROVIDED BY THE COR.

ELECTRICAL NOTES - DEMOLITION

1. PROVIDE DEMOLITION OF EXISTING ELECTRICAL, COMMUNICATION, TELE/DATA, EQUIPMENT DEVICES, CABLING, AND CONDUIT UNLESS NOTED OTHERWISE TO COMPLETE WORK AS SHOWN.
2. REMOVE BOXES, CONDUITS, AND WIRING IN WALLS AND CEILINGS TO BE DEMOLISHED. COORDINATE LOCATIONS WITH GENERAL DEMOLITION.
3. COORDINATE DEVICES TO BE SALVAGED AND REUSED BY VA PRIOR TO DEMOLITION. TURN OVER ALL DEVICES TO VA IN ORIGINAL CONDITION. DISPOSAL OF EQUIPMENT NOT TO BE SALVAGED IS THE RESPONSIBILITY OF THE CONTRACTOR.
4. CONTRACTOR SHALL PATCH WALLS, FLOORS, CEILINGS THAT ARE EXISTING TO REMAIN AND HAVE BEEN AFFECTED BY ELECTRICAL DEMOLITION WORK TO MATCH SURROUNDING MATERIALS. SURFACES SHALL BE PAINTED AS DIRECTED BY THE COR.
5. RELOCATED EQUIPMENT SHALL HAVE ALL WIRING AND CONDUIT REMOVED BACK TO SOURCE UNLESS OTHERWISE NOTED.
6. ALL CIRCUITS NOT RELATED TO THE NEW CONSTRUCTION SHALL REMAIN.
7. REMOVE ALL ACCESSIBLE ABANDONED WIRING OF ALL TYPES, OR CAP AND LABEL IN JUNCTION BOX FOR RE-USE, IN COMPLIANCE WITH THE NATIONAL ELECTRIC CODE.
8. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS AND CONDUCTORS PASSING THROUGH RENOVATED AREAS AND SERVICING UNDISTURBED AREAS.
9. ALL ELECTRICAL SERVICE INTERRUPTIONS ARE TO BE SCHEDULED WITH THE COR AT LEAST 72 HOURS PRIOR TO WORK.
10. DO NOT ALLOW DEMOLITION DEBRIS TO ACCUMULATE ON JOB SITE. DO NOT LEAVE TOOLS UNATTENDED. DEBRIS SHALL BE DAMPED AND COVERED. DAMP MOP OCCUPIED FLOOR AREAS AS REQUIRED. PROVIDE WALK OFF MATS AS REQUIRED. PROVIDE NEGATIVE AIR VENTILATION TO THE EXTERIOR OF WORK AREA AS DIRECTED BY COR. INSTALL DUST PROTECTION WALLS BETWEEN AREAS IN USE BY VA.

GENERAL ELECTRICAL NOTES

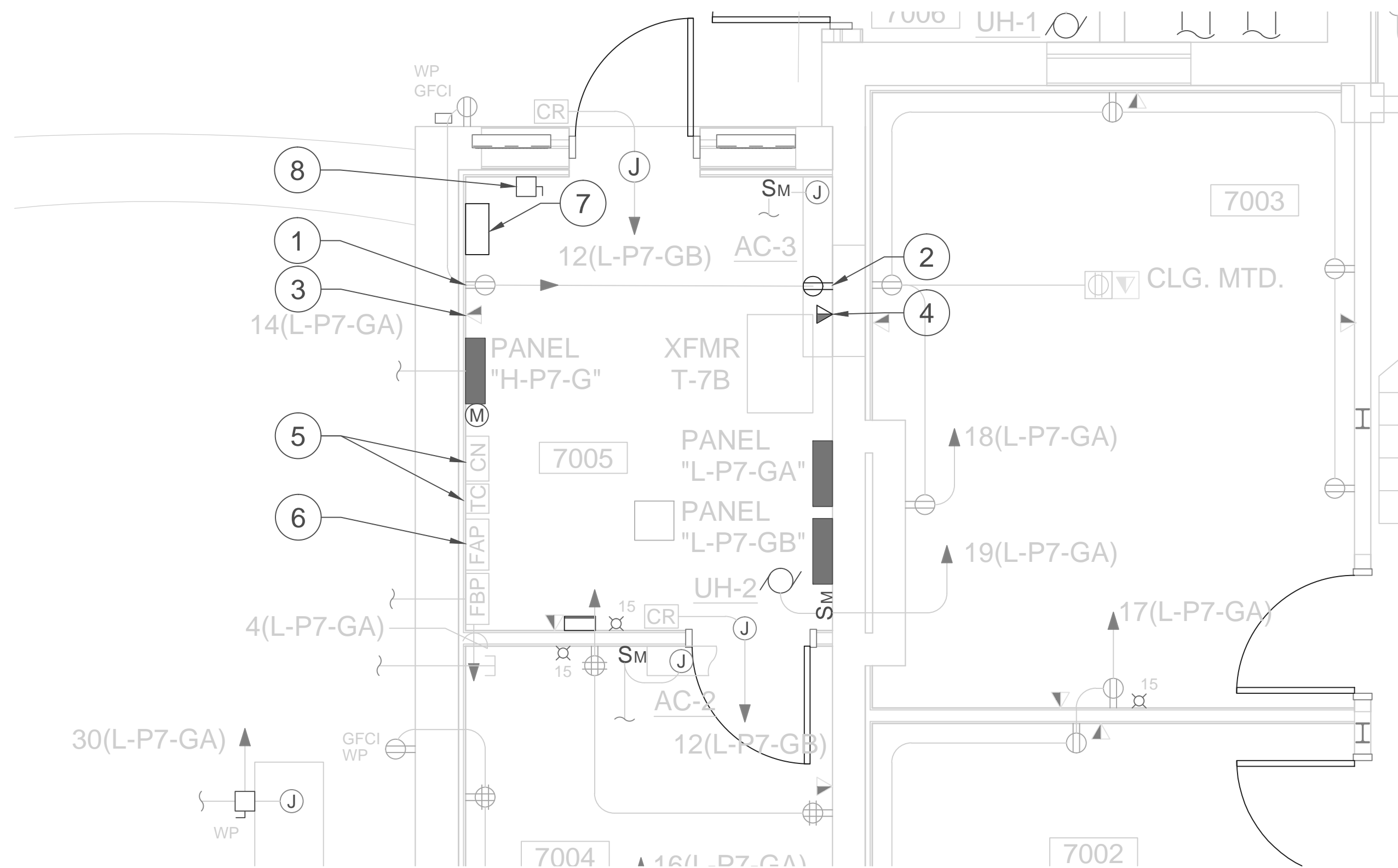
1. ALL CONTRACTOR SUPPLIED MATERIALS SHALL BE NEW AND UL APPROVED OR APPROVED BY ANOTHER NATIONALLY RECOGNIZED ORGANIZATION.
2. ALL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, RECTILINEAR TO BUILDING STRUCTURE HORIZONTAL OR CROSS RUNS IN PARTITIONS AND WALLS NOT PERMITTED.
3. ALL ABOVE GROUND WIRING SHALL BE IN CONDUIT UNLESS OTHERWISE STATED. ALL CONDUIT BENDS SHALL BE LONG RADIUS TYPE. ALL OUTDOOR WIRING SHALL BE IN CONDUIT. ALL MOTORS AND TRANSFORMERS SHALL HAVE FLEXIBLE CONNECTIONS TO MINIMIZE VIBRATION.
4. ALL WIRING SHALL BE RUN CONCEALED IN CONDUIT UNLESS SPECIFIED OTHERWISE.
5. ALL UNDERGROUND CONDUITS SHALL BE SEALED TO PREVENT THE ENTRY OF WATER OR GASES.
6. PASS RACEWAYS OVER WATER, STEAM, OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED. NO RACEWAY WITHIN 3 IN. OF STEAM OR HOT WATER PIPES, OR APPLIANCES, EXCEPT CROSSINGS WHERE RACEWAY SHALL BE AT LEAST 1 IN FROM PIPE COVER.
7. FURNISH PULL STRING IN EACH RACEWAY RUN OVER 10 FT IN WHICH WIRING IS NOT INSTALLED.
8. CUT STEEL CONDUIT ENDS SQUARE, REAM SMOOTH, PAINT MALE THREADS OF FIELD THREADED CONDUIT WITH GRAPHITE BASE PIPE COMPOUND. DRAW UP TIGHT WITH CONDUIT COUPLINGS.
9. GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE REGARDING ELECTRODE, GROUNDING AND BONDING REQUIREMENTS FOR SERVICE, EQUIPMENT AND ENCLOSURES. ALL EQUIPMENT SHALL BE PROVIDED WITH A SEPARATE GROUNDING CONDUCTOR.
10. LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS.
11. WIRE COLOR CODING: PER CODE.
12. ALL RECEPTICALS SHALL BE 18" ABOVE THE TOP OF FINISHED FLOOR ELEVATION.
13. PROVIDE PULL BOXES AS INDICATED AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE. FOR EMPTY RACEWAYS PROVIDE PULL BOXES EVERY 100 FT AND AS INDICATED.
14. ALL PANELS SHALL BE BALANCED ACROSS PHASES AS EVENLY AS POSSIBLE. ALL PANELS SHALL HAVE PERMANENT DIRECTORIES AND CIRCUIT CHANGES SHALL BE REFLECTED ON THE "AS BUILT" DRAWINGS.
15. ALL DEVICES SHALL BE IDENTIFIED WITH PERMANENT LABLES OR TAGS. WIRING SHALL BE IDENTIFIED AS TO PHASING AND CONDUCTOR IDENTIFICATION.
16. EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS EACH. EACH BRANCH CIRCUIT HOMERUN SHALL HAVE A SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.
17. ALL OPENINGS SHALL BE SEALED UPON COMPLETION OF INSTALLATION TO PREVENT THE SPREAD OF SMOKE AND FIRE THROUGH OPENINGS, OPENING SHALL ALSO BE SEALED TO PREVENT WATER SEEPAGE WHERE APPLICABLE.
18. THE COMPLETE INSTALLATION SHALL BE TESTED AT COMPLETIONS OF WORK, TO BE FREE OF GROUNDS AND SHORT CIRCUITS CONDITIONS. ALL INTERLOCK CIRCUITS SHALL BE TESTED TO VERIFY CORRECT OPERATION OF EACH DEVICE.

19. CONTRACTOR SHALL PROVIDE A DETAILED SCHEDULE OF ALL WORK AND SHUTDOWNS OF EQUIPMENT. COORDINATE WITH COR ON ALL CHANGES TO THE SCHEDULE. ALL CHANGES NEED AT LEAST 48 HOUR NOTIFICATION.
20. EXCAVATION FOR UNDERGROUND CONDUIT INSTALLATION SHALL BE APPROACHED WITH EXTREME CAUTION SO AS NOT TO DAMAGE EXISTING UNDERGROUND PIPING, WIRING, AND CONDUITS.
21. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING VOLTAGE, PHASE, MCA, MOCP, REQUIRED FOR ALL EQUIPMENT PRIOR TO PURCHASING AND INSTALLING CONDUCTORS, BREAKERS, DISCONNECTS, CONDUIT, ETC. VERIFY RATINGS WITH FINAL, APPROVED, CONTRACTOR SUBMITTALS AND EQUIPMENT NAMEPLATES DIRECTLY WITH THE COR.
22. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE ELECTRICAL PLANS AND SPECIFICATIONS TO BECOME FAMILIAR WITH THE FULL PROJECT SCOPE. CONFLICTS SHALL BE BROUGHT TO THE CO AND COR'S ATTENTION AS EARLY AS POSSIBLE.
23. ALL ELECTRICAL WORK IS TO BE PERFORMED BY A STATE LICENSED ELECTRICIAN AND CONFORM TO THE NATIONAL ELECTRIC CODE.



UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
VA MEDICAL CENTER - 1540 SPRING VALLEY DRIVE - HUNTINGTON WV 25704

DRAWING TITLE: ELECTRICAL DEMOLITION & GENERAL NOTES		PROJECT TITLE: DRAWING TITLE: INSTALL EMERGENCY ELECTRIC BUILDING 7 AND 8		
APPROVED: CHRIS ECKLES ASS'T CHIEF, ENGINEERING		BUILDING: 7 & 8	PROJECT NUMBER: 14-110	DRAWING NUMBER: E-1
APPROVED: JOHN KLIM CHIEF, ENGINEERING		DRAWN: JOSEPH PRINE	DATE: 05-30-14	
DWG. 2 OF 7				



BUILDING 7 - GROUND FLOOR

SCALE: 3/8" = 1'

BUILDING 7 CONSTRUCTION NOTES:

- ① DISCONNECT AND REMOVE OUTLET, CONDUIT AND WIRING FOR SERVICE TO EXISTING JUNCTION BOX 14 (L-P7-G). SEE SHEET E-3 DETAIL A.
- ② INSTALL POWER OUTLET THAT WAS REMOVED ON OPPOSITE WALL. INSTALL NEW CONDUIT AND WIRE OF SIMILAR SIZE AND GAUGE FROM JUNCTION BOX 14 (L-P7-G) TO RELOCATED OUTLET.
- ③ REMOVE IT CONVENIENCE OUTLET, CONDUIT AND WIRE TO 90 DEGREE BEND ON CEILING. SEE SHEET E-3 DETAIL A.
- ④ INSTALL REMOVED IT CONVENIENCE OUTLET ON OPPOSITE WALL NEXT TO POWER OUTLET. INSTALL NEW CONDUIT TO OUTLET AND REUSE EXISTING WIRE.
- ⑤ REMOVE OUTSIDE LIGHTING CONTACTOR AND TIME CLOCK. REMOVE CONDUIT AND WIRE BACK TO ASSOCIATED JUNCTION BOXES . SEE SHEET E-3 DETAIL A.
- ⑥ RELOCATE OUTSIDE LIGHTING CONTACTOR AND TIME CLOCK TO ABOVE FAP UNIT. SEE SHEET E-3 DETAIL A.
- ⑦ INSTALL NEW AUTOMATIC TRANSFER SWITCH (ATS). ATS TO BE EATON COMMERCIAL GRADE UNIT. SEE SHEET E-3 DETAIL A.
- ⑧ INSTALL CONDUIT AND WIRE FROM NEW SAFETY SWITCH TO AUTOMATIC TRANSFER SWITCH. CONNECT WIRE FROM BUILDING 15 GENERATOR PANEL BOARD EDP TO NEW SAFETY SWITCH SEE SHEET E-3 DETAIL A.

GENERAL NOTES:

- REMOVE EXISTING ITEMS DESIGNATED IN THIS DRAWING AND STORE IN LOCATION DESIGNATED BY THE COR.
- ALL EXISTING WIRING, SWITCHES AND JUNCTION BOXES ARE TO REMAIN AND BE REUSED UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL SUBMIT A SCHEDULE TO THE COR FOR APPROVAL PRIOR TO ANY CONSTRUCTION.
- ALL LOCATIONS AND DIMENSIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR IS TO FIELD VERIFY ALL LOCATIONS AND DIMENSIONS.
- COMPLETED WORK MUST BE A FULLY FUNCTIONAL (LOCAL) SYSTEM.
- ANY DAMAGE TO DRY WALL DURING CONSTRUCTION IS TO BE PATCHED AND PAINTED TO MATCH EXISTING FINISH.



UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
VA MEDICAL CENTER - 1540 SPRING VALLEY DRIVE - HUNTINGTON WV 25704

DRAWING TITLE:

**ELECTRICAL DEMOLITION
& POWER PLAN BUILDING 7 & 8**

APPROVED:

CHRIS ECKLES
ASS'T CHIEF, ENGINEERING

APPROVED:

JOHN KLIM
CHIEF, ENGINEERING

PROJECT TITLE:

**INSTALL EMERGENCY
ELECTRIC BUILDING 7 AND 8**

BUILDING:

7 & 8

DRAWN:

JOSEPH PRINE

PROJECT NUMBER:

14-110

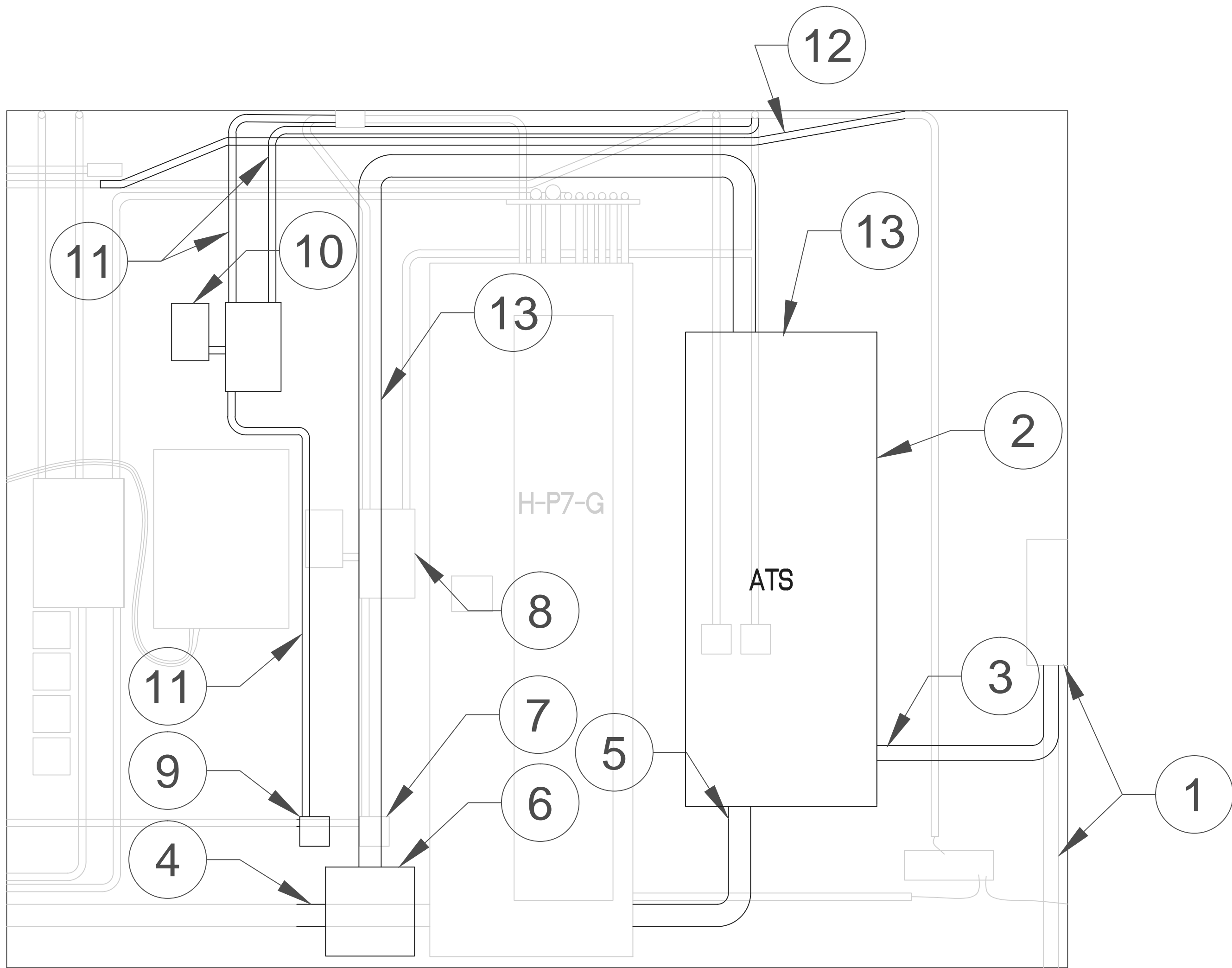
DATE:

05-30-14

DRAWING NUMBER:

E-2

DWG. 3 OF 7



A
E-3 BUILDING 7 ELEVATION PLAN
NOT TO SCALE

BUILDING 7 DETAIL NOTES:

- ① INSTALL NEW (4) 3/0 WIRE FROM BUILDING 15 PANEL BOARD EDR. INSTALL 1' X1' JUNCTION BOX AT ENTRANCE TO BUILDING. CONNECT (4) 3/0 WIRE THROUGH NEW JUNCTION BOX TO NEW SAFETY SWITCH TO BE SQUARE D 200A 600 VAC 3 PHASE NON-FUSABLE.
- ② REMOVE POWER AND CONVENIENCE OUTLET AND RELOCATE TO OPPOSITE WALL. INSTALL NEW EATON ATV 3 KDB 3 0225 XSU AUTOMATIC TRANSFER SWITCH (ATS) WITH NEMA 1 ENCLOSURE. MOUNT ENCLOSURE PER MANUFACTURER RECOMMENDATIONS.
- ③ INSTALL NEW 2 INCH EMT CONDUIT WITH (4) 3/0 WIRES FROM NEW SAFETY SWITCH TO ATS. INSTALL 3/4 IN EMT CONDUIT FROM JUNCTION BOX TO ATS. INSTALL SIGNAL WIRE IN 3/4 IN EMT CONDUIT TO ATS.
- ④ DISCONNECT WIRES FROM H-P7-G MAIN BREAKER AND PULL WIRE BACK TO CUT 3-INCH CONDUIT FOR NEW JUNCTION BOX INSTALLATION. PLUG EXISTING SERVICE ENTRANCE TO PANEL H-P7-G.
- ⑤ INSTALL 2-INCH EMT WITH (4) 3/0 WIRES TO MAIN BREAKER IN H-P7-G FROM ATS.
- ⑥ INSTALL NEW 18"X18" JUNCTION BOX AND REINSERT DISCONNECTED MAIN WIRES TO JUNCTION BOX.
- ⑦ DISCONNECT WIRES, REMOVE JB 31 (H-P7-G) AND CUT CONDUIT TO RELOCATE.
- ⑧ DISCONNECT AND REMOVE TIME CLOCK AND OUTSIDE LIGHTING CONTACTOR. REMOVE ASSOCIATED CONDUIT AND WIRE TO NEAREST JUNCTION BOX.
- ⑨ INSTALL REMOVED JUNCTION BOX 31(H--P7-G) AS SHOWN.
- ⑩ INSTALL REMOVED TIME CLOCK AND OUTSIDE LIGHTING CONTRACTOR AS SHOWN.
- ⑪ INSTALL NEW WIRE AND CONDUIT FOR TIME CLOCK AND OUTSIDE LIGHTING CONTRACTOR.
- ⑫ RELOCATE CONDUIT AND WIRE AS SHOWN.
- ⑬ INSTALL NEW 3" EMT CONDUIT FROM NEW 18"X18" JUNCTION BOX TO ATS AS SHOWN. SPLICE AND EXTEND WIRE FROM NEW JUNCTION BOX TO ATS.

SCHEDULE OF MATERIALS FOR BUILDING 8						
NO.	ITEM	AMP	VOLT	PHASE	QTY	REMARKS
1	SQUARE D PANEL BOARD	125	277/480	3	1	18 SPACES
2	SQUARE D PANEL BOARD	100	120/208	3	1	18 SPACES
3	SQUARE D EDB BREAKER	20	277/480	1	10	SINGLE POLE BOLT IN BREAKER
4	SQUARE D QOB BREAKER	20	120/208	1	10	SINGLE POLE BOLT IN BREAKER
5	#10 WIRE - 2,000 ft	-	-	-	4	500 FT ROLLS EACH
6	18" x 18" JUNCTION BOX	-	-	-	1	-

BUILDING 8 NOTES:

1. CONTRACTOR IS TO PROVIDE THE MATERIALS LISTED. ALL MATERIAL IS TO BE TURNED OVER TO VA HOSPITAL AND STORED IN A LOCATION DESIGNATED BY THE COR.

B
E-3 BUILDING 8 SCHEDULE OF MATERIALS
NOT TO SCALE



UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
VA MEDICAL CENTER - 1540 SPRING VALLEY DRIVE - HUNTINGTON WV 25704

DRAWING TITLE:
**ELECTRICAL DEMOLITION
& POWER PLAN DETIALS**

PROJECT TITLE: DRAWING TITLE:
**INSTALL EMERGENCY
ELECTRIC BUILDING 7 AND 8**

APPROVED:
CHRIS ECKLES
ASS'T CHIEF, ENGINEERING

BUILDING:
7 & 8

PROJECT NUMBER:
14-110

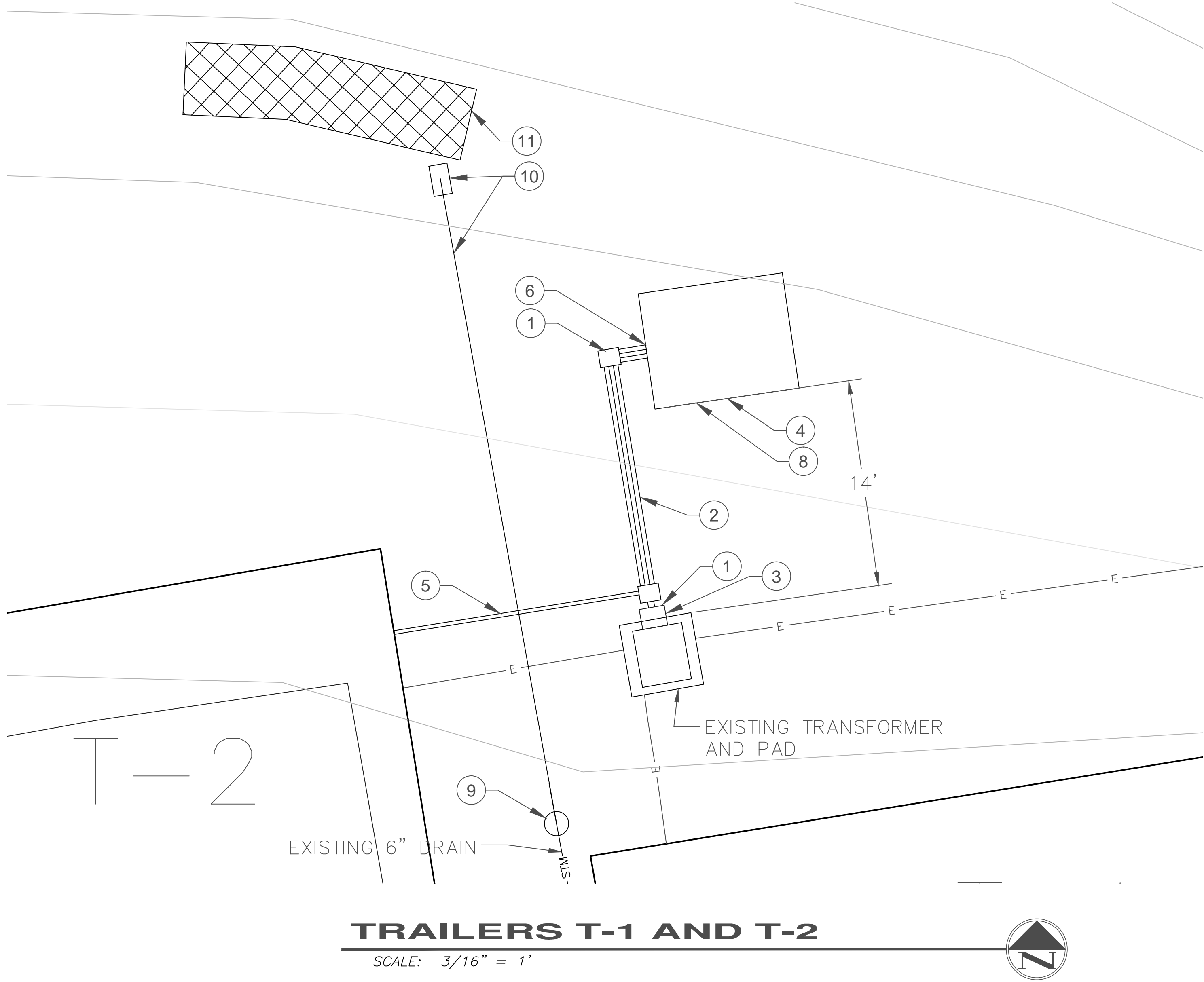
DRAWING NUMBER:
E-3

APPROVED:
JOHN KLIM
CHIEF, ENGINEERING

DRAWN:
JOSEPH PRINE

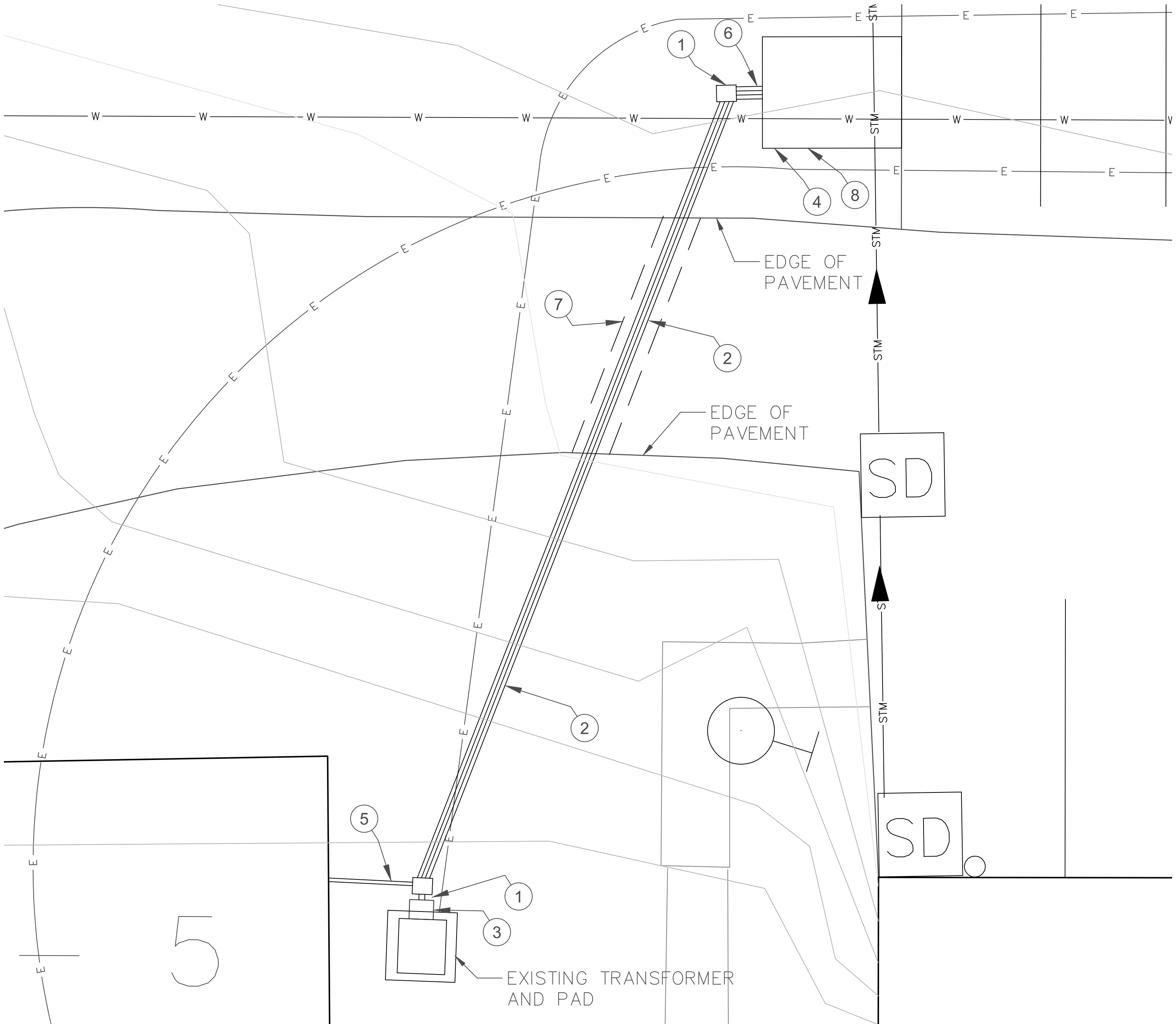
DATE:
05-30-14

DWG. **4** OF **7**



TRAILERS CONSTRUCTION NOTES:

- 1. INSTALL PULL BOXES AS SHOWN. SEE SHEET SP-2.
- 2. INSTALL 4 2-INCH PVC CONDUITS AS SHOWN. SEE SHEET SP-2. OUTGOING PRIMARY POWER FROM GENERATOR SHALL USE (4) 2/0 WIRES. INCOMING SECONDARY POWER TO THE GENERATOR SHALL USE (3) #10 WIRES.
- 3. INSTALL (2) NEW ATS TO BE EATON ATV 3 LDB 30400 XRU WITH NEMA 3R ENCLOSURE. MOUNT ATS TO OUTSIDE OF EXISTING BOX PER MANUFACTURER RECOMMENDATIONS. ALL PENETRATIONS ARE TO BE WATER PROOF. INSTALL A 400 AMP BREAKER IN EACH PANEL BOARD TO CONNECT ATS TO PANEL.
- 4. INSTALL 4,000 PSI CONCRETE WITH WIRE REINFORCEMENT FOR MOBILE GENERATORS AS SHOWN. CONCRETE PAD MAY BE RELOCATED IN THE FIELD WITH COR APPROVAL DUE TO UNKNOWN UTILITY OR SITE CONFLICTS. RE-GRADE AROUND PAD AREA AS NEEDED. SEE SHEET SP-2.
- 5. INSTALL CONDUIT FOR OUTGOING SECONDARY POWER. ONCE UNDER THE TRAILERS USE APPROPRIATE SIZED EMT TO CONNECT WIRE TO EXISTING PANEL BOARD LOCATED IN TRAILERS 2 AND 5. INSTALL NEW 20 AMP BREAKERS FOR SERVICE.
- 6. TURN UP CONDUIT IN CONCRETE GENERATOR PAD. INSTALL MOUNT AND BRACKET FOR OUTDOOR RECEPTACLE.
- 7. SAW CUT EXISTING ASPHALT AND CURB AS SHOWN IN DETAIL ON SHEET SP-2. REPLACE CURB WITH 4,000 PSI CONCRETE AND FORM NEW CURB TO MATCH EXISTING.
- 8. GENERATOR TO BE A NEW DIESEL, TRAILER MOUNTED, 3 PHASE, 125 KVA AND 150 KVA, ALL WEATHER ENCLOSURE, AUTOMATIC STARTER, BLOCK HEATER, DAY TANK, AND BE COMPLETELY SELF CONTAINED.
- 9. INSTALL NYLOPLAST INLINE CATCH BASIN WITH FLAT GRATE. REALIGN EXISTING STORM DRAIN AND CONNECT TO INLINE CATCH BASIN.
- 10. INSTALL NEW 6" STORM DRAIN LINE FROM INLINE CATCH BASIN WITH GRATE TO SLOPE HEAD WALL AND LEVEL SPREADER. INSTALL REBAR ACROSS DRAIN ON 2 INCH CENTERS AS ANIMAL PREVENTION. INSTALL STORM DRAIN MINIMUM 18" DEPTH. BED AND BACKFILL AROUND PIPE WITH SAND.
- 11. INSTALL LEVEL SPREADER PER WVDEP STANDARDS. MINIMUM LENGTH IS 20 FT. SEE SHEET SP-2.

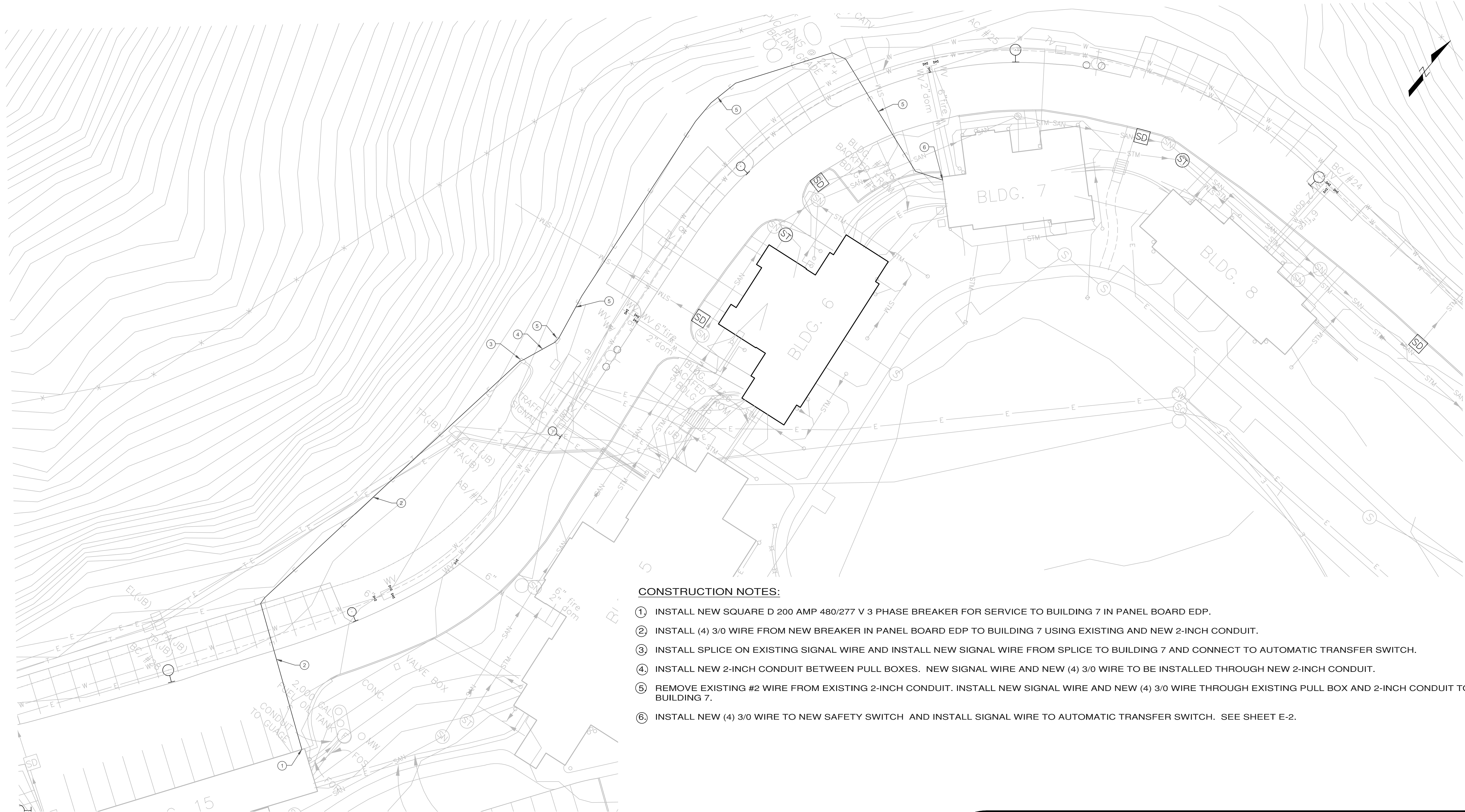


GENERAL NOTES:

- A. FOLLOW WVDEP BEST MANAGEMENT PRACTICES GUIDELINES FOR SEDIMENT AND EROSION CONTROL. SEED AND MULCH ALL DISTURBED AREAS.
- B. CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION ACTIVITIES AND UNDERGROUND UTILITIES DURING CONSTRUCTION. COORDINATE WITH COR DURING EXCAVATION OPERATIONS. CONTRACTOR IS RESPONSIBLE FOR REPAIR OF DAMAGED UTILITIES.

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VA MEDICAL CENTER - 1540 SPRING VALLEY DRIVE - HUNTINGTON WV 25704

DRAWING TITLE: ELECTRICAL DEMOLITION & POWER PLAN TRAILERS		PROJECT TITLE: INSTALL EMERGENCY ELECTRIC BUILDING 7 AND 8	
APPROVED: CHRIS ECKLES ASS'T CHIEF, ENGINEERING	BUILDING: SITE	PROJECT NUMBER: 14-110	DRAWING NUMBER: E-4
APPROVED: JOHN KLIM CHIEF, ENGINEERING	DRAWN: JOSEPH PRINE	DATE: 05-30-14	DWG. 5 OF 7



CONSTRUCTION NOTES:

1. INSTALL NEW SQUARE D 200 AMP 480/277 V 3 PHASE BREAKER FOR SERVICE TO BUILDING 7 IN PANEL BOARD EDP.
2. INSTALL (4) 3/0 WIRE FROM NEW BREAKER IN PANEL BOARD EDP TO BUILDING 7 USING EXISTING AND NEW 2-INCH CONDUIT.
3. INSTALL SPLICE ON EXISTING SIGNAL WIRE AND INSTALL NEW SIGNAL WIRE FROM SPLICE TO BUILDING 7 AND CONNECT TO AUTOMATIC TRANSFER SWITCH.
4. INSTALL NEW 2-INCH CONDUIT BETWEEN PULL BOXES. NEW SIGNAL WIRE AND NEW (4) 3/0 WIRE TO BE INSTALLED THROUGH NEW 2-INCH CONDUIT.
5. REMOVE EXISTING #2 WIRE FROM EXISTING 2-INCH CONDUIT. INSTALL NEW SIGNAL WIRE AND NEW (4) 3/0 WIRE THROUGH EXISTING PULL BOX AND 2-INCH CONDUIT TO BUILDING 7.
6. INSTALL NEW (4) 3/0 WIRE TO NEW SAFETY SWITCH AND INSTALL SIGNAL WIRE TO AUTOMATIC TRANSFER SWITCH. SEE SHEET E-2.



UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
VA MEDICAL CENTER - 1540 SPRING VALLEY DRIVE - HUNTINGTON WV 25704

DRAWING TITLE:
SITE PLAN

PROJECT TITLE: DRAWING TITLE:
**INSTALL EMERGENCY
ELECTRIC BUILDING 7 AND 8**

APPROVED:
CHRIS ECKLES
ASS'T CHIEF, ENGINEERING

BUILDING:
SITE

PROJECT NUMBER:
14-110

DRAWING NUMBER:
SP-1

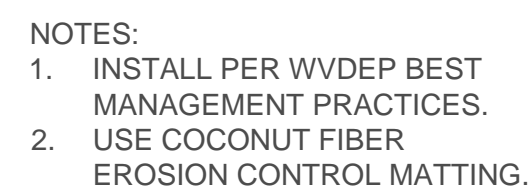
APPROVED:
JOHN KLIM
CHIEF, ENGINEERING

DRAWN:
JOSEPH PRINE

DATE:
05-30-14

DWG. **6** OF **7**

0 20 40 Feet



B LEVEL SPREADER
NOT TO SCALE



1. CONCRETE SHALL BE 2000 P.S.I. @ 28 DAYS, OR AS SPECIFIED.
2. PROVIDE REINFORCING RODS ON TOP AND BOTTOM OF DUCTS WHEN CROSSING OR PLACED IN ROADWAYS.
3. MINIMUM COVER TO TOP OF ENVELOPE SHALL BE 24" [610mm].
4. PROVIDE MINIMUM 6" [152mm] SPACE BETWEEN POWER AND TELECOMMUNICATION DUCTS. INCREASE SIZE AS REQUIRED.
5. INNERDUCT QUANTITY AND SIZE AS INDICATED ON PLANS.

C DUCT BANK DETAILS



1. THE EXISTING SOIL CONDITION IS MOSTLY ROCK. THE ROCK AND STONE EXCAVATED FROM THE TRENCH SHALL BE PLACED AS DIRECTED BY THE COR ON SITE. PROVIDE SELECT FILL COMPACTED TO 95% STANDARD PROCTOR.

F TRENCH DETAIL AT ROADWAY
NOT TO SCALE



1. THE EXISTING SOIL CONDITION IS MOSTLY ROCK. THE ROCK AND STONE EXCAVATED FROM THE TRENCH SHALL BE PLACED AS DIRECTED BY THE COR ON SITE. PROVIDE SELECT FILL COMPACTED TO 95% STANDARD PROCTOR.
2. CONTRACTOR SHALL SEED OR SOD AREAS EXCAVATED OR DAMAGED DURING CONSTRUCTION.

G TRENCH DETAIL AT GRASS AREA
NOT TO SCALE