

WESTCHESTER COUNTY HEALTHCARE CORPORATION
WESTCHESTER MEDICAL CENTER
BHC GENERATOR RETIREMENT
CMC-14329

SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE
TS-000.00	TITLE SHEET
E-000.00	ELECTRICAL LEGEND AND NOTES
E-200.00	BHC ELECTRICAL POWER PLAN - BASEMENT
E-201.00	BHC ELECTRICAL POWER PLAN - 1ST FLOOR
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E-700.00	ELECTRICAL DETAILS

BHC GENERATOR RETIREMENT

ISSUE INFORMATION		
REVISIONS		
NO.	DATE	DESCRIPTION
1	2/27/2020	ISSUE FOR BID

KEYPLAN

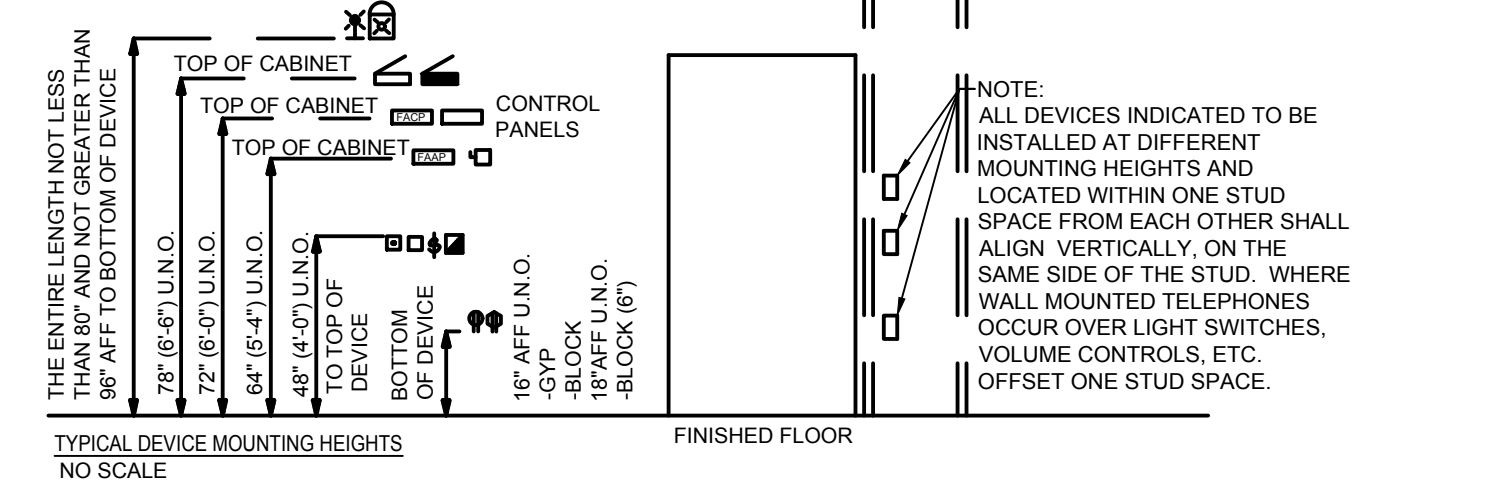
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DRAWN BY: ME	REVIEWED BY: ME
ISSUE DATE:	

SHEET TITLE:
TITLE SHEET

DISCIPLINE CATEGORY: SEE CATEGORY SHEET
TS-000.00

NOTES:

- 1. ALL EXPOSED RACEWAYS ARE TO BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS OR STRUCTURAL MEMBERS SUCH THAT THEY FOLLOW STRUCTURAL SURFACE CONTOURS AND SHALL BE INSTALLED SUCH THAT THEY DO NOT OBSTRUCT PASSAGEWAYS OR ACCESS TO EQUIPMENT. MULTIPLE RACEWAYS SHOULD BE INSTALLED GROUPED TOGETHER. THE LOCATION OF PUBLICLY VISIBLE RACEWAYS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. EXTRA THE SHALL BE ALLOWED FOR THIS REVIEW AND APPROVAL.
2. THE DISCONNECTING MEANS FOR ALL MECHANICAL EQUIPMENT SHALL BE ACCESSIBLE AND HAVE THE CLEARANCE IN FRONT AS REQUIRED BY NEC-AMENDMENTS.
3. ALL CEILING ATTACHED OBJECTS AND FLOOR ATTACHED EQUIPMENT INCLUDING BUT NOT LIMITED TO PENDANT LIGHTING FIXTURES, GENERAL LIGHTING, MULTIPLE RACEWAYS, GENERATOR, TRANSFORMER ELECTRICAL SWITCHGEAR, AND SWITCHBOARDS SHALL BE INSTALLED IN ACCORDANCE WITH SUPPORTING OBJECTS FOR DESIGN ZONE AS REQUIRED BY STATE AND LOCAL CODES.
4. ALL SWITCHGEAR, SWITCHBOARDS AND TRANSFORMERS SHALL HAVE A 4 INCH HOUSE KEEPING PAD. UNLESS NO CONDITION SHALL THE HIGHEST SWITCH OR BREAKER EXCEED 6' 6" AFF.
5. DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED. ABSOLUTE ACCURACY IS NOT GUARANTEED AND THE CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS WITH OTHER TRADES, ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO ACTUAL CONDITIONS AT THE BUILDING. THE DRAWINGS ARE DIAGNOSTIC IN NATURE AND SHALL NOT BE SCALED. HOWEVER, THE CONTRACTOR SHALL NOT BELIEVE ANY SUB-CRITICAL FROM COORDINATING HIS WORK WITH ALL OTHER TRADES AND FROM ADJUSTING HIS WORK AS REQUIRED BY THE ACTUAL CONDITIONS OF THE PROJECT. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING COSTS TO BECOME THOROUGHLY FAMILIAR WITH THE ACTUAL CONDITIONS OF THE PROJECT. CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING COSTS TO BECOME THOROUGHLY FAMILIAR WITH THE ACTUAL CONDITIONS OF THE PROJECT.
6. COORDINATE AND ADJUST ALL WORK BETWEEN TRADES AND EXISTING CONDITIONS IN ORDER TO ACCOMPLISH A N.E.T. INTEGRATED AND EFFICIENT INSTALLATION WHICH INCLUDES BUT ARE NOT LIMITED TO:
a. EXAMINE THE CONTRACT DOCUMENTS OF ALL TRADES (IE. THE ARCHITECTURAL, REFLECTED CEILING PLAN, MECHANICAL HVAC DRAWINGS, ELECTRICAL LIGHTING PLAN, FIRE PROTECTION PLAN, ETC.)
b. COORDINATE NECESSARY EQUIPMENT, FIXTURES, ETC. SO THAT THE FINAL INSTALLATION IS COMPATIBLE WITH THE MATERIALS AND EQUIPMENT OF THE OTHER TRADES.
c. THIS CONTRACTOR SHALL ASSIST THE DIVISION 23 CONTRACTOR IN PREPARING SHOP DRAWINGS FOR COORDINATING INSTALLATION OF ALL WORK (IE. LOCATING ALL LIGHTING FIXTURES IN RELATION WITH CEILING CLEARANCES, RACEWAYS, PIPING, EQUIPMENT FOR CLEARANCE THROUGHOUT).
d. THE ELECTRICAL DRAWINGS INDICATE THE ELECTRICAL REQUIREMENTS FOR A SIGNIFICANT PORTION OF THE MECHANICAL AND PLUMBING SYSTEMS. ADDITIONAL MECHANICAL AND PLUMBING EQUIPMENT IS INDICATED ON THE DIVISION 21E DRAWINGS. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. PROVIDE COMPLETE WIRING AND FUSIBLE DISCONNECTING MEANS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT.
7. DEFINITIONS:
a. "FURNISH" MEANS TO "SUPPLY" AND USUALLY REFERS TO AN ITEM OF EQUIPMENT.
b. "INSTALL" MEANS TO "SET IN PLACE, CONNECT AND PLACE IN FULL OPERATIONAL ORDER".
c. "PROVIDE" MEANS TO "FURNISH AND INSTALL".
d. "EQUIVALENT" MEANS MEETS THE SPECIFICATIONS OF THE REFERENCE PRODUCT OR ITEM IN ALL SIGNIFICANT ASPECTS. SIGNIFICANT ASPECTS SHALL BE DETERMINED BY THE ENGINEER.
e. "SEE DIVISION" AND SIMILAR EXPRESSIONS MEANS WORK TO BE PERFORMED UNDER THE CONTRACT DOCUMENTS, BUT NOT NECESSARILY UNDER THE DIVISION OR SECTION OF THE WORK ON WHICH THE NOTE APPEARS. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COORDINATE THE WORK OF THE CONTRACT WITH OTHER TRADES, SUBCONTRACTORS, AND EMPLOYEES. IF CLARIFICATION IS REQUIRED, CONSULT ARCHITECT.
8. "FIRE STOPPING" REQUIREMENT: ALL PENETRATIONS THROUGH RATED WALLS AND FLOORS SHALL BE SEALED WITH MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES WHEN SUBJECT TO THE REQUIREMENTS OF THE TEST STANDARD SPECIFIC FOR FIRE STOPS ASTM E-814. ALL PENETRATIONS SHALL MEET F AND RATINGS AS REQUIRED BY THE BUILDING CODE.
9. WHERE DISCONNECTS ARE INDICATED ON DRAWINGS CONTRACTOR SHALL PROVIDE FINAL CONNECTION TO EQUIPMENT BEING SERVED BY DISCONNECT.
10. CONTRACTOR PROVIDE ALL MISCELLANEOUS SUPPORT AS REQUIRED FOR A COMPLETE OPERABLE ELECTRICAL INSTALLATION INCLUDING MISCELLANEOUS STEEL, LINEN, SUT, ALL-THREAD, AIRCRAFT CABLE, ETC.



- 1. MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE SHOWN ABOVE.
2. CONTRACTOR SHALL ENSURE THAT ALL MOUNTING HEIGHTS COMPLY WITH CURRENT ADA REQUIREMENTS.
3. WHERE EVER DEVICES ARE INDICATED TO BE ABOVE DOORS, DEVICE SHALL BE CENTERED BETWEEN TOP OF DOOR TRIM AND CEILING LINE.
4. ALL ABOVE COUNTER (DESIGNATED BY 'ACT') SHALL BE MOUNTED 8" ABOVE COUNTER OR MAXIMUM HEIGHT OF 42" TO TOP OF DEVICE. VERIFY HEIGHTS WITH ARCHITECT.
5. FOR CEILING BELOW 7'-4", FIRE ALARM STROBE OR HORNSTROBES SHALL BE WALL MOUNTED 8" BELOW FINISHED CEILING.
6. HEIGHTS SHOWN ARE TYPICAL TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE. ALL DUPLEX RECEPTACLES SHALL BE MOUNTED VERTICALLY.
7. REFER TO ARCHITECTURAL DRAWINGS FOR RECEPTACLE MOUNTING HEIGHTS. STANDARD CONVENIENCE RECEPTACLES SHALL BE MOUNTED AT HEIGHT INDICATED ABOVE WHERE MOUNTING HEIGHT IS NOT SHOWN ON ARCHITECTURAL DOCUMENTS.
8. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS DIMENSIONS WHERE AVAILABLE. WHERE DEVICES ARE INDICATED IN CASEWORK OR MILLWORK, CONTRACTOR SHALL VERIFY EXACT DIMENSIONS PRIOR TO INSTALLATION.

Table with columns: TAG, OUTLET RATING, RECEPTACLE MODIFIER TAGS, FEEDER (NOTE 1), WIRING NOTES. Lists various electrical components and their specifications.

NOTE 1: DISTANCE NOTED IS MAXIMUM RUN LENGTH FOR WIRE SIZE. INCREASE PER NEC. INCLUDING GROUND, FOR LONGER RUNS OR FOR DERATING FACTORS (AMB TEMP, EXTERIOR, ETC.)

PRELIMINARY TITLE
1. WORK OUTSIDE OF THE CURRENT PHASED AREA OF WORK AND WORK THAT IMPACTS THE OPERATION OF EXISTING OR NEW FUNCTIONING SYSTEMS SHALL BE COMPLETED ON PREVIOUS TAGS WITH BEST PRACTICE. SATISFACTORY WORK, SHADY WORK, OR EXCESSIVE WORK AS REQUIRED TO LIMIT STOPDOWN DURATION OF THE SYSTEMS TO THE MINIMUM POSSIBLE PERIOD. ALL WORK SHALL BE COMPLETED FROM TOP DOWN.
2. WORK REQUIRING SHUTDOWN OF EXISTING SYSTEMS SHALL BE ARRANGED FOR CONTINUOUS PERFORMANCE, WITH MULTIPLE CREWS, TO LIMIT THE DURATION OF THE SHUTDOWN TO THE MINIMUM POSSIBLE PERIOD. ALL WORK SHALL BE COMPLETED FROM TOP DOWN.
3. ALL MATERIALS SHALL BE ON-SITE PRIOR TO THE START OF WORK REQUIRING A SHUT DOWN OR CLOSING OF A SPACE OUTSIDE THE PRIMARY WORK AREA.
4. ALL WORK OUTSIDE OF THE PRIMARY WORK AREA ASSOCIATED WITH DEMOLITION AND RESTORATION OF WALLS, CEILING, AND FINISHES, REMOVAL AND REPLACEMENT OF CEILING TILE, INFLECTION CONTROL, TINTING, CLEAN-UP, DEBRIS REMOVAL, SAFETY ISOLATION OF WORK AREA, ETC. SHALL BE THE RESPONSIBILITY OF EACH TRADE CONTRACTOR.

PENETRATION NOTES
1. FOR ALL RATED WALLS WITHIN THE PRIMARY WORK AREA AND AREAS OF WORK OUTSIDE THE PRIMARY WORK AREA, CONTRACTOR SHALL TAKE PHOTOGRAPHS OF ALL PENETRATIONS IN ROOM BEFORE WORK BEGINS. BEFORE BEGINNING WORK IN AREA, CONTRACTOR SHALL PROVIDE PHOTOGRAPHS OF THE SAME AREAS AFTER WORK IS COMPLETED AND ALL FIRE STOPPING HAS BEEN PROVIDED PER THE SPECIFICATIONS. PROVIDE HAND DRAWING NOTING LOCATION AND TYPE OF PENETRATIONS. PROVIDE THE DOCUMENTATION TO THE HOSPITAL ON THE 1ST FLOOR OF EVERY FLOOR.
2. NOTIFY IMC IMMEDIATELY OF ALL EXISTING PENETRATIONS THAT DO NOT MEET THE FIRE STOPPING REQUIREMENTS.
3. IF THE DOCUMENTATION IS NOT PROVIDED, CONTRACTOR WILL BE RESPONSIBLE DURING OR AFTER COMPLETION OF CONTRACT, TO COMPLETE CODE REQUIRED FIRE STOPPING FOR ANY UNDOCUMENTED PENETRATIONS IN AREAS WHERE CONTRACTOR WORKED.

INFLECTION CONTROL NOTES
1. CONTRACTOR SHALL PROVIDE INFLECTION CONTROL BARRIERS AND IMPLEMENT INFLECTION CONTROL REQUIREMENTS BY THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. SOME OF THE INFLECTION CONTROL MEASURES ARE LISTED BELOW FOR THE CONTRACTOR'S REFERENCE. ALL CONTRACTORS ARE RESPONSIBLE FOR ENSURING THAT INFLECTION CONTROL REQUIREMENTS ARE NOTED BEFORE BEGINNING WORK IN EACH AREA. SEE ARCHITECTURAL DRAWINGS FOR INFLECTION CONTROL NOTES. THE FOLLOWING NOTES SHALL BE IMPLEMENTED IN AREAS OF WORK:
1. OBTAIN INFLECTION CONTROL GUIDELINES BEFORE CONSTRUCTION BEGINS.
2. ALL CRITICAL BARRIERS AND/OR CONTROL CURB METHODS SHALL BE CONSTRUCTED BEFORE BEGINNING WORK. SEE ARCHITECTURAL DRAWINGS. ANY WORK OCCURRING OUTSIDE OF TEMPORARY CONSTRUCTION AREAS SHALL BE POSTPONED UNTIL THE NEXT ENCLOSURE.
3. COVER ALL EXISTING CEILING AND FLOOR JOINTS WITH PLASTIC BEFORE BEGINNING ANY WORK IN THE PROJECT SPACE. PLASTIC SHALL NOT COVER ANY CEILING DEVICES OR DIFFUSERS/GRILLES.
4. ALL FLOOR MATS SHALL BE PLACED AT ENTRANCE AND EXIT OF WORK AREA.
5. ALL AIR SHALL BE EXHAUSTED TO THE OUTDOORS UTILIZING HEPA AIR EXHAUSTION FAN UNITS.
6. SEAL HOLES, PIPES, CONDUITS, AND PENETRATIONS APPROPRIATELY.
7. VACUUM WORK AREA WITH HEPA FILTERED VACUUMS. NET HOPE WITH DISINFECTANT.
8. CLEANUP CONTRACTOR MUST BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS TO DESIGNATED ELIMINATOR/SITE.

ABBREVIATIONS table listing electrical symbols and their corresponding trade names (e.g., A/AMP AMPERE, AC ABOVE COUNTER, AFF ABOVE FINISHED FLOOR, etc.).

MECHANICAL/PLUMBING COORDINATION REQUIREMENTS
THE ELECTRICAL DRAWINGS INDICATE THE ELECTRICAL REQUIREMENTS FOR A SIGNIFICANT PORTION OF THE MECHANICAL AND PLUMBING SYSTEMS. ADDITIONAL MECHANICAL AND PLUMBING EQUIPMENT IS INDICATED ON THE DIVISION 21, 22 AND 23 DRAWINGS. THE ELECTRICAL CONTRACTOR SHALL INCLUDE COSTS IN THE DIVISION 20 PRICING TO CONNECT ALL MECHANICAL AND PLUMBING EQUIPMENT INDICATED ON THE ELECTRICAL DRAWINGS AND ON THE MECHANICAL AND PLUMBING DRAWINGS. PROVIDE COMPLETE WIRING, STARTERS, AND DISCONNECTING MEANS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT.

LIGHTING table listing lighting symbols and their corresponding trade names (e.g., STRIP LIGHT, WALL MOUNTED LINEAR, RECESSED ON SURFACE MOUNTED 2X4, etc.).

LOWER CASE LETTERS AT LIGHT SWITCHES AND SENSORS DENOTE SWITCHING ZONE. LOWER CASE LETTERS AT LIGHT SWITCHES, FIXTURES, AND SENSORS INSIDE PARENTHESES, EX. (TV), DENOTES DAYLIGHT ZONE.
CEILING SENSORS SHALL HAVE 360 DEGREE RANGE WITH MIN 1500 SF COVERAGE.
SENSORS TECHNOLOGY SHALL BE REFER CONTROL SCHEDULE OR AS NOTED, WHERE NOT NOTED, ASSUME SENSOR TO BE MULTI-TECHNOLOGY TYPE.

EQUIPMENT table listing electrical symbols and their corresponding trade names (e.g., MOTOR, MOTOR STARTER, UN-FUSED DISCONNECT, FUSED DISCONNECT, etc.).

RACEWAY LEGEND table listing symbols for raceway types and their corresponding trade names (e.g., BRANCH CIRCUIT HOMERUN TO PANELBOARD, NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS, etc.).

UNDERGROUND FEEDER table listing symbols for underground feeder types and their corresponding trade names (e.g., UNDERGROUND BRANCH CIRCUIT HOMERUN, CONDUIT UP, CONDUIT DOWN, etc.).

POWER DEVICES table listing electrical symbols and their corresponding trade names (e.g., SINGLE WALL RECEPTACLE, WALL DUPLEX RECEPTACLE, WALL DUPLEX RECEPTACLE (EMERGENCY), etc.).

GENERAL NOTES:
1. REFER TO SPECIFICATION SECTIONS FOR SPECIFIC FLOOR PRODUCT INFORMATION.
2. REFER TO TECHNOLOGY LEGEND AND FLOOR PLANS TO CONFIRM ALL LOCATIONS THAT HAVE DATA OR DATA REQUIREMENTS COMBINED WITH POWER IN FLOOR BOXES.
3. REFER TO TECHNOLOGY (AND/OR AUI) DRAWINGS FOR DEDICATED LOW VOLTAGE CONDUIT AND FLOOR BOX DEVICES MEETING ALL REQUIREMENTS. LOW VOLTAGE CONDUIT REQUIREMENTS ARE NOT DOCUMENTED ON POWER DRAWINGS.

FIRE ALARM table listing electrical symbols and their corresponding trade names (e.g., SMOKE DETECTOR, SMOKE DETECTOR WITH ELEVATOR RECALL, HEAT DETECTOR, DUCT DETECTOR, etc.).

NOTES:
1. 'X' DENOTES CANCELLED RATING OF STROBE.
2. 'Y' DENOTES EXISTING DEVICE.
3. 'R' DENOTES RELOCATED DEVICE.
4. 'TV' DENOTES TYPICAL FOR SIMILAR DEVICES OR INSTALLATIONS.



BHC GENERATOR RETIREMENT

ISSUE INFORMATION

Table with columns: PACKAGE, REVISIONS, NO., DATE, DESCRIPTION, ISSUE FOR BID. Shows revision 2/27/2020 for issue for bid.

KEYPLAN

Table with columns: PROJECT NO., ISSUED BY, DRAWN BY, REVIEWED BY, ISSUE DATE. Shows project no. 1501 and issued by ME.

SHEET TITLE:

ELECTRICAL LEGEND AND NOTES

E-000.00

GENERAL NOTES

1. XX



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BHC GENERATOR RETIREMENT

KEYNOTES

- 1. SCHEDULE THIS WORK NIGHT AND WEEKENDS TO AVOID DISRUPTION TO ONLY PATIENT & STAFF ACTIVITY.
- 2. OBSERVE PREMIUM TIME NOTES, PENETRATION NOTES, INFECTION CONTROL NOTES, AND PHASING NOTES ON THIS DRAWING.

ISSUE INFORMATION

PACKAGE	ISSUED BY:		
REVISIONS	ME		
NO.	DATE	DESCRIPTION	REVIEWED BY:
1	2/27/2020	ISSUE FOR BID	ME

KEYPLAN

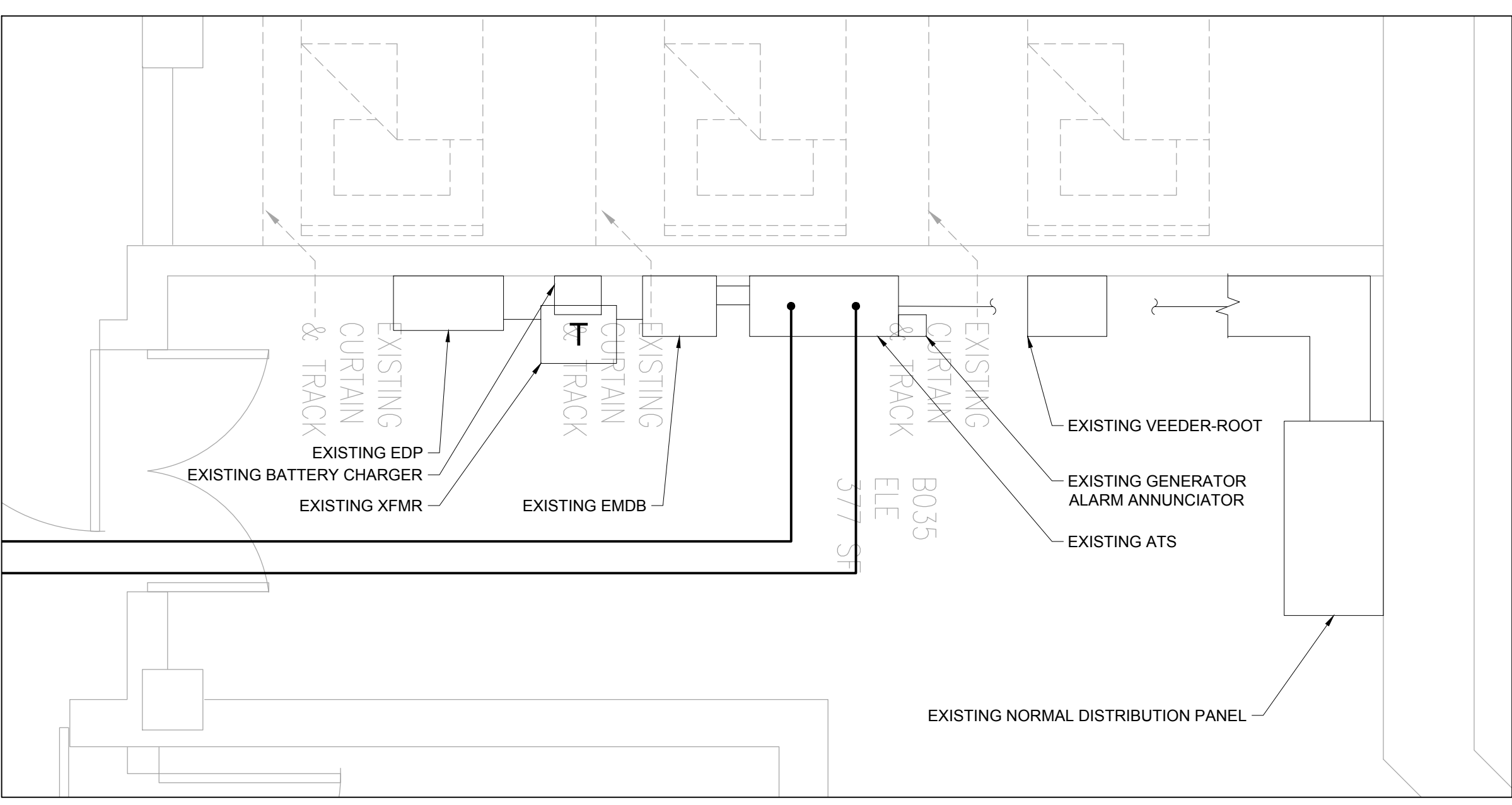
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ME	ME
DRAWN BY:	REVIEWED BY:
ME	ME
ISSUE DATE:	

SHEET TITLE:

BHC ELECTRICAL POWER PLAN - BASEMENT

ISSUE CATEGORY: SHEET

E-200.00



2 MAIN ELECTRICAL ROOM ENLARGED PLAN - BASEMENT
1/2" = 1'-0"

S WING

OFFICES
1,940 SF

OUT-PATIENT DEPARTMENT
7,820 SF

S024 OFFICE 105 SF
S025 OFFICE 101 SF
S027 OFFICE 105 SF
S028 OFFICE 105 SF
S031 OFFICE 70 SF
S032B LOUNGE
S032A PANTRY 104 SF
S033 OFFICE 112 SF
S034 OFFICE 95 SF
S030 W.C. 20 SF

S003 OFFICE 110 SF
S007 OFFICE 113 SF
S008 OFFICE 113 SF
S011 OFFICE 113 SF
S012 OFFICE 113 SF
S015 OFFICE 195 SF
S017 OFFICE 299 SF

S001 RECEPTION 271 SF
S002 FILE AREA 139 SF
S006 WAITING 149 SF
S009 OFFICE 157 SF
S010 OFFICE 186 SF
S014 OFFICE 119 SF
S016 OFFICE 99 SF
S018 OFFICE 105 SF
S019 OFFICE 178 SF

B003 111 SF
B004 98 SF
B005 96 SF
B006 129 SF
B008 142 SF
B061 202 SF
B060 113 SF
B062 STAFF TOILET 15 SF
B041 HSK 72 SF
B010 101 SF
STAFF TOILET 15 SF

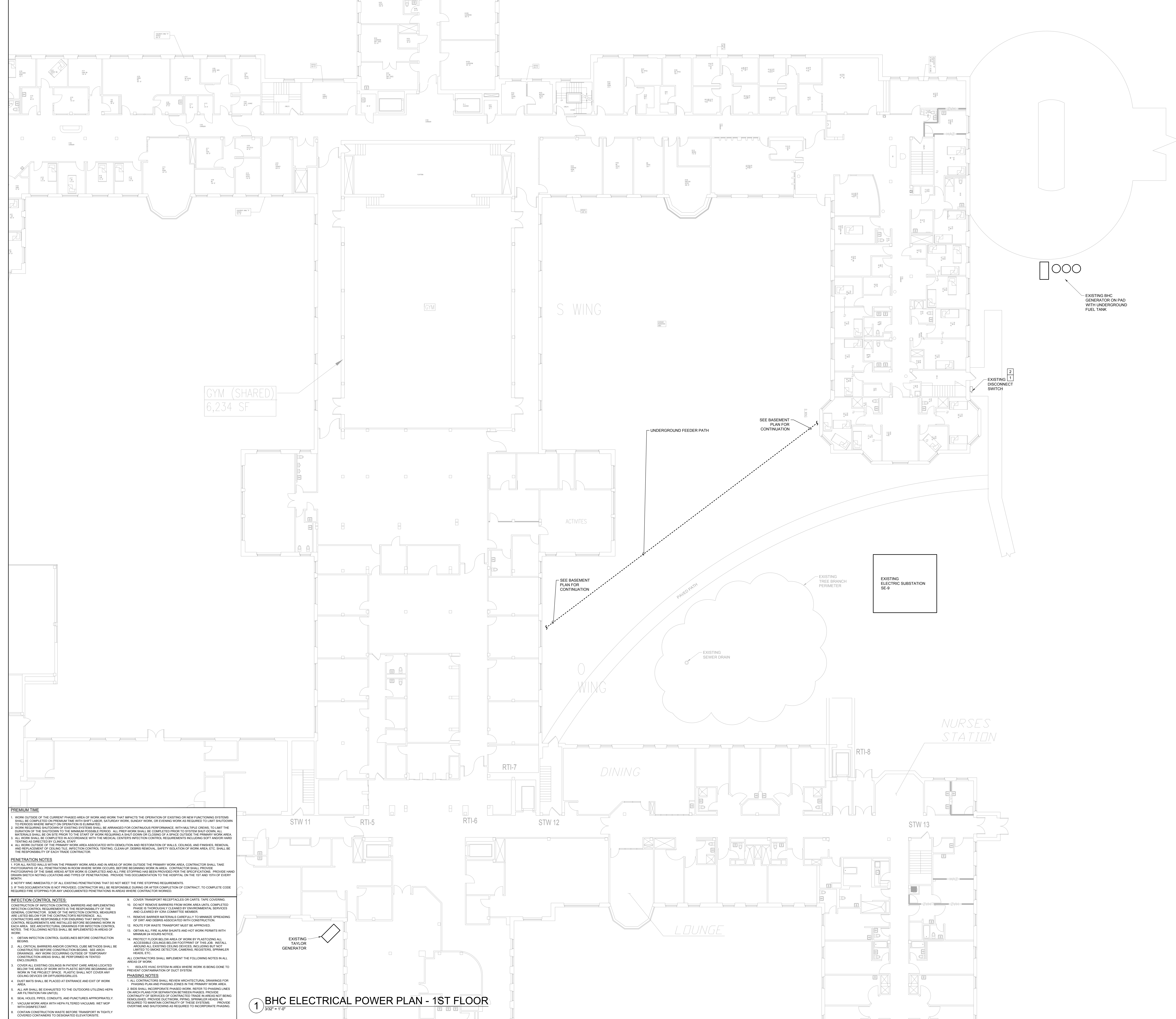
- BASE WORK SCOPE EXTERIOR PATH
SEE FIRST LEVEL PLAN FOR AVOIDANCE OF PAVED PATHWAY, TREE, AND STORM DRAIN.
- NOTES:
- FOR ALL UNDERGROUND POWER AND CONTROL CONDUITS CONTRACTOR SHALL PROVIDE PVC RIGID CONDUIT, BURIED 36" BELOW GRADE. PROVIDE 2" OF SAND AT BOTTOM OF TRENCH, AND 6" OF SAND ON TOP OF PIPES, BEFORE BACKFILLING. PROVIDE IDENTIFICATION MAGNETIC TAPE TO MARK PIPES AND LOCATE 6" BELOW GRADE.
 - ALL ELBOWS SHALL BE PVC COATED RIGID STEEL.
 - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER PRIOR TO PROCEEDING WITH WORK.
 - REGRADE, BACKFILL, SEED, AND COVER WITH STRAW.

- SEE ENLARGED PLAN ON THIS DRAWING
- EXISTING NORMAL DISTRIBUTION PANEL
 - EXISTING VEEDER-ROOT
 - EXISTING GENERATOR ALARM ANNUNCIATOR
 - EXISTING ATS
 - EXISTING EMOB
 - EXISTING BATTERY CHARGER
 - EXISTING XFMR
 - EXISTING EDP

PROVIDE WATER TIGHT SEALANTS FOR PENETRATION THROUGH FACADE

- PREMIUM TIME
- WORK OUTSIDE OF THE CURRENT PHASED AREA OF WORK THAT IMPACTS THE OPERATION OF EXISTING OR NEW FUNCTIONING SYSTEMS SHALL BE COMPLETED ON PREMIUM TIME WITH BEST LABOR. SATURDAY WORK, SUNDAY WORK, OR EVENING WORK AS REQUIRED TO LIMIT SHUTDOWN PERIODS WHERE APPLICABLE OR OTHERWISE AS ELABORATED.
 - WORK REQUIRING SHUTDOWN OF EXISTING SYSTEMS SHALL BE ARRANGED FOR CONTINUOUS PERFORMANCE, WITH MULTIPLE CREWS, TO LIMIT THE DURATION OF THE SHUTDOWNS TO THE MINIMUM POSSIBLE PERIOD. ALL WORK SHALL BE COMPLETED FROM 0500HRS SHUT DOWN ALL MATERIALS SHALL BE ON SITE PRIOR TO THE START OF WORK REQUIRING A SHUT DOWN OR CLOSING OF A SPACE OUTSIDE THE PRIMARY WORK AREA.
 - ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE MEDICAL CENTER'S INFECTION CONTROL REQUIREMENTS INCLUDING SOFT AND/OR HARD TESTING AS DIRECTED BY CLINICAL STAFF.
 - ALL WORK OUTSIDE OF THE PRIMARY WORK AREA ASSOCIATED WITH DEMOLITION AND RESTORATION OF WALLS, CEILING, AND FINISHES, REMOVAL AND REPLACEMENT OF CEILING TILE, INFECTION CONTROL, TENTING, CLEANUP, DEBRIS REMOVAL, SAFETY ISOLATION OF WORK AREA, ETC. SHALL BE THE RESPONSIBILITY OF EACH TRADE CONTRACTOR.
- PENETRATION NOTES
- FOR ALL BATED WALLS WITHIN THE PRIMARY WORK AREA AND IN AREAS OF WORK OUTSIDE THE PRIMARY WORK AREA, CONTRACTOR SHALL TAKE PHOTOGRAPHS OF ALL PENETRATIONS IN ROOM WHERE WORK OCCURS, BEFORE BEGINNING WORK IN AREA. CONTRACTOR SHALL PROVIDE PHOTOGRAPHS OF THE SAME AREAS AFTER WORK IS COMPLETED AND ALL FIRE STOPPING HAS BEEN PROVIDED PER THE SPECIFICATIONS. PROVIDE HAND DRAWN SECTION NOTING LOCATION AND TYPE OF PENETRATIONS. PROVIDE THIS DOCUMENTATION TO THE HOSPITAL ON THE 1ST AND 15TH OF EVERY MONTH.
 - NOTIFY WMC IMMEDIATELY OF ALL EXISTING PENETRATIONS THAT DO NOT MEET THE FIRE STOPPING REQUIREMENTS.
 - IF THIS DOCUMENTATION IS NOT PROVIDED, CONTRACTOR WILL BE RESPONSIBLE DURING OR AFTER COMPLETION OF CONTRACT, TO COMPLETE CODE REQUIRED FIRE STOPPING FOR ANY UNDOCUMENTED PENETRATIONS IN AREAS WHERE CONTRACTOR WORKED.
- INFECTION CONTROL NOTES:
- CONSTRUCTION OF INFECTION CONTROL BARRIERS AND IMPLEMENTING INFECTION CONTROL REQUIREMENTS IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. SOME OF THE INFECTION CONTROL MEASURES ARE LISTED BELOW FOR THE CONTRACTOR'S REFERENCE. ALL CONTRACTORS ARE RESPONSIBLE FOR ENSURING THAT INFECTION CONTROL REQUIREMENTS ARE MET BEFORE BEGINNING WORK IN EACH AREA. SEE ARCHITECTURAL DRAWINGS FOR INFECTION CONTROL NOTES. THE FOLLOWING NOTES SHALL BE IMPLEMENTED IN AREAS OF WORK:
 - 1. OBTAIN INFECTION CONTROL GUIDELINES BEFORE CONSTRUCTION BEGINS.
 - 2. ALL CRITICAL BARRIERS AND/OR CONTROL CURB METHODS SHALL BE CONSTRUCTED BEFORE CONSTRUCTION BEGINS. SEE ARCHITECTURAL DRAWINGS. ANY WORK OCCURRING OUTSIDE OF TEMPORARY CONSTRUCTION AREAS SHALL BE PERFORMED IN TENTED ENCLOSURES.
 - 3. COVER ALL EXISTING CEILING AND PATTERN CURB AREAS LOCATED BELOW THE AREA OF WORK WITH PLASTIC BEFORE BEGINNING ANY WORK IN THE PROJECT SPACE. PLASTIC SHALL NOT COVER ANY CEILING DEVICES OR DIFFUSERS/GRILLES.
 - 4. SWEET MATS SHALL BE PLACED AT ENTRANCE AND EXIT OF WORK AREA.
 - 5. ALL AREA SHALL BE EXHAUSTED TO THE OUTDOORS UTILIZING HEPA AIR EXHAUSTION FAN UNITS.
 - 6. SEAL HOLES, PIPES, CONDUITS, AND PENETRATIONS APPROPRIATELY.
 - 7. VACUUM WORK AREA WITH HEPA FILTRATED VACUUM; NET HOOP WITH DISINFECTANT.
 - 8. COVER CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS TO DESIGNATED ELEVATORS/SITE.
 - 9. COVER TRANSPORT RECEPACLES OR CARTS. TAPE COVERING.
 - 10. DO NOT REMOVE BARRIERS FROM WORK AREA UNTIL COMPLETED PHASE IS THOROUGHLY CLEANED BY ENVIRONMENTAL SERVICES AND CLEARED BY HCA COMMITTEE MEMBER.
 - 11. REMOVE BARRIERS MATERIALS CAREFULLY TO MINIMIZE SPREADING OF DIRT AND DEBRIS ASSOCIATED WITH CONSTRUCTION.
 - 12. ROUTE FOR WASTE TRANSPORT MUST BE APPROVED.
 - 13. OBTAIN ALL FIRE ALARM SHAKES AND HOT WORK PERMITS WITH MINIMUM 24-HOURS NOTICE.
 - 14. PROTECT FLOOR BELOW AREA OF WORK BY PLASTICIZING ALL ACCESSIBLE CEILING BELOW FOOTPRINT OF THIS JOB. INSTALL AROUND ALL EXISTING CEILING DEVICES, INCLUDING BUT NOT LIMITED TO SMOKE DETECTOR, CAMERAS, REGISTER, SPRINKLER HEADS, ETC.
 - 15. ALL CONTRACTORS SHALL IMPLEMENT THE FOLLOWING NOTES IN ALL AREAS OF WORK:
 - 1. ISOLATE HVAC SYSTEM IN AREA WHERE WORK IS BEING DONE TO PREVENT CONTAMINATION OF DUCT SYSTEMS.
- PHASING NOTES
- ALL CONTRACTORS SHALL REVIEW ARCHITECTURAL DRAWINGS FOR PHASING PLAN AND PHASING ZONES IN THE PRIMARY WORK AREA.
 - 80% SHALL INCORPORATE PHASED WORK REFER TO PHASING LINE ON ARCH PLAN FOR SEPARATION BETWEEN PHASES. PROVIDE CONTINUITY OF SERVICES OF CONTRACTED TRADE IN AREA NOT BEING DEMOLISHED. PROVIDE DUCTWORK, PIPING, SPRINKLER LEADS AS REQUIRED TO MAINTAIN CONTINUITY OF THESE SYSTEMS. PROVIDE OVERTIME AND SHUTDOWNS AS REQUIRED TO INCORPORATE PHASING.

1 BHC ELECTRICAL POWER PLAN - BASEMENT
3/32" = 1'-0"



GENERAL NOTES

1. XX

KEYNOTES

1. TRACE FEEDER AND CONFIRM PURPOSE OF ROLL UP GENERATOR CONNECTION. MAINTAIN ROLL UP GENERATOR SWITCH, PIPE, WIRE.

2. PROVIDE ROLL UP GENERATOR AND CONNECT TO EXTERIOR SWITCH. REPLACE OR REPAIR SWITCH AND LOGS IF UNSUITABLE TO USE FOR CONNECTIONS.

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BHC GENERATOR RETIREMENT

ISSUE INFORMATION

NO.	DATE	DESCRIPTION
1	2/27/2020	ISSUE FOR BID

KEYPLAN

PROJECT NO:	ISSUED BY:
DRAWN BY:	REVIEWED BY:
ME	ME
ISSUE DATE:	
ME	

SHEET TITLE:

BHC ELECTRICAL POWER PLAN - 1ST FLOOR

ISSUE DATE: 2/27/2020

E-201.00

PREMIUM TIME

1. WORK OUTSIDE OF THE CURRENT PHASED AREA OF WORK THAT IMPACTS THE OPERATION OF EXISTING OR NEW FUNCTIONING SYSTEMS SHALL BE COMPLETED PRIOR TO THE START OF EACH SATURDAY WORK, SUNDAY WORK, OR EVENING WORK AS REQUIRED TO LIMIT SHUTDOWN TO PERIODS WHERE IMPACT ON OPERATIONS IS ELIMINATED.

2. WORK REQUIRING SHUTDOWN OF EXISTING SYSTEMS SHALL BE ARRANGED FOR CONTINUOUS PERFORMANCE, WITH MULTIPLE CREWS, TO LIMIT THE DURATION OF THE SHUTDOWN TO THE MINIMUM POSSIBLE PERIOD. ALL WORK SHALL BE COMPLETED PRIOR TO SYSTEM SHUTDOWN. ALL MATERIALS SHALL BE ON SITE PRIOR TO THE START OF WORK REQUIRING A SHUT DOWN OR CLOSURE OF A SPACE OUTSIDE THE PRIMARY WORK AREA.

3. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE MEDICAL CENTER'S INFECTION CONTROL REQUIREMENTS INCLUDING SOFT AND/OR HARD TENTS AS DIRECTED BY CLINICAL STAFF.

4. ALL WORK OUTSIDE OF THE PRIMARY WORK AREA ASSOCIATED WITH DEMOLITION AND RESTORATION OF WALLS, CEILING, AND FINISHES, REMOVAL AND REPLACEMENT OF CEILING TILE, INFECTION CONTROL, TENTING, CLEAN UP, DEBRIS REMOVAL, SAFETY ISOLATION OF WORK AREA, ETC. SHALL BE THE RESPONSIBILITY OF EACH TRADE CONTRACTOR.

PENETRATION NOTES

1. FOR ALL BATED WALLS WITHIN THE PRIMARY WORK AREA AND IN AREAS OF WORK OUTSIDE THE PRIMARY WORK AREA, CONTRACTOR SHALL TAKE PHOTOGRAPHS OF ALL PENETRATIONS IN ROOMS WHERE WORK OCCURS, BEFORE BEGINNING WORK IN AREA. CONTRACTOR SHALL PROVIDE PHOTOGRAPHS OF THE SAME AREAS AFTER WORK IS COMPLETED AND ALL FIRE STOPPING HAS BEEN PROVIDED PER THE SPECIFICATIONS. PROVIDE HAND DRAWN SKETCH NOTING LOCATION AND TYPE OF PENETRATIONS. PROVIDE THIS DOCUMENTATION TO THE HOSPITAL ON THE 5TH AND 15TH OF EVERY MONTH.

2. NOTIFY IMAC IMMEDIATELY OF ALL EXISTING PENETRATIONS THAT DO NOT MEET THE FIRE STOPPING REQUIREMENTS.

3. IF THIS DOCUMENTATION IS NOT PROVIDED, CONTRACTOR WILL BE RESPONSIBLE DURING OR AFTER COMPLETION OF CONTRACT, TO COMPLETE CODE REQUIRED FIRE STOPPING FOR ANY UNDOCUMENTED PENETRATIONS IN AREAS WHERE CONTRACTOR WORKS.

INFECTION CONTROL NOTES:

CONSTRUCTION OF INFECTION CONTROL BARRIERS AND IMPLEMENTING INFECTION CONTROL REQUIREMENTS IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. SOME OF THE INFECTION CONTROL MEASURES ARE LISTED BELOW FOR THE CONTRACTOR'S REFERENCE. ALL CONTRACTORS ARE RESPONSIBLE FOR ENSURING THAT INFECTION CONTROL REQUIREMENTS ARE MET AND FOR THE DESIGNING WORK IN EACH AREA. SEE ARCHITECTURAL DRAWINGS FOR INFECTION CONTROL NOTES. THE FOLLOWING NOTES SHALL BE IMPLEMENTED IN AREAS OF WORK.

1. OBTAIN INFECTION CONTROL GUIDELINES BEFORE CONSTRUCTION BEGINS.

2. ALL CRITICAL BARRIERS AND/OR CONTROL CURB METHODS SHALL BE CONSTRUCTED BEFORE CONSTRUCTION BEGINS. SEE ARCHITECTURAL DRAWINGS. ANY WORK OCCURRING OUTSIDE OF TEMPORARY CONSTRUCTION AREAS SHALL BE PERFORMED IN TENTED ENCLOSURES.

3. COVER ALL EXISTING CEILING AND PATIENT CARE AREA LOCATED BELOW THE AREA OF WORK WITH PLASTIC BEFORE BEGINNING ANY WORK IN THE PROJECT SPACE. PLASTIC SHALL NOT COVER ANY CEILING DEVICES OR DIFFUSERS/DIFFUSIBLES.

4. SEPT MATS SHALL BE PLACED AT ENTRANCE AND EXIT OF WORK AREA.

5. ALL AIR SHALL BE EXHAUSTED TO THE OUTDOORS UTILIZING HEPA AIR EXHAUSTION FAN UNITS.

6. SEAL HOLES, PIPES, CONDUITS, AND PENETRATIONS APPROPRIATELY.

7. VACUUM WORK AREA WITH HEPA FILTRATED VACUUM, HEAT MOP WITH DISINFECTANT.

8. CONTAIN CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS TO DESIGNATED ELEVATOR/SITE.

9. COVER TRANSPORT RECEPTACLES OR CARTS. TAPE COVERING.

10. DO NOT REMOVE BARRIERS FROM WORK AREA UNTIL COMPLETED PHASE IS THOROUGHLY CLEANED BY ENVIRONMENTAL SERVICES AND CLEARED BY RCM COMMITTEE MEMBER.

11. REMOVE BARRIERS MATERIAL CAREFULLY TO MINIMIZE SPREADING OF DIRT AND DEBRIS ASSOCIATED WITH CONSTRUCTION.

12. ROUTE FOR WASTE TRANSPORT MUST BE APPROVED.

13. OBTAIN ALL FIRE ALARM SILENTS AND HOT WORK PERMITS WITH MINIMUM 24-HOURS NOTICE.

14. PROTECT FLOOR BELOW AREA OF WORK BY PLASTICIZING ALL ACCESSIBLE CEILING BELOW FOOTPRINT OF THIS JOB. INSTALL AND SEAL ALL EXISTING CEILING JOINTS, INCLUDING BUT NOT LIMITED TO SMOKE DETECTOR, CAMELRA, REGISTER, SPRINKLER HEADS, ETC.

ALL CONTRACTORS SHALL IMPLEMENT THE FOLLOWING NOTES IN ALL AREAS OF WORK.

1. ISOLATE HVAC SYSTEM IN AREA WHERE WORK IS BEING DONE TO PREVENT CONTAMINATION OF DUCT SYSTEMS.

PHASING NOTES

1. ALL CONTRACTORS SHALL REVIEW ARCHITECTURAL DRAWINGS FOR PHASING PLAN AND PHASING ZONES IN THE PRIMARY WORK AREA.

2. BIDDERS SHALL INCORPORATE PHASING WORK REFER TO PHASING LINE ON ARCH PLAN FOR SEPARATION BETWEEN PHASES. PROVIDE CONTINUITY OF SERVICES OF CONTRACTED TRADE IN AREA NOT BEING DEMOLISHED. PROVIDE DUCTWORK, PIPING, SPRINKLER LEADS AS REQUIRED TO MAINTAIN CONTINUITY OF THESE SYSTEMS. PROVIDE OVERTIME AND SHUTDOWNS AS REQUIRED TO INCORPORATE PHASING.

1 BHC ELECTRICAL POWER PLAN - 1ST FLOOR

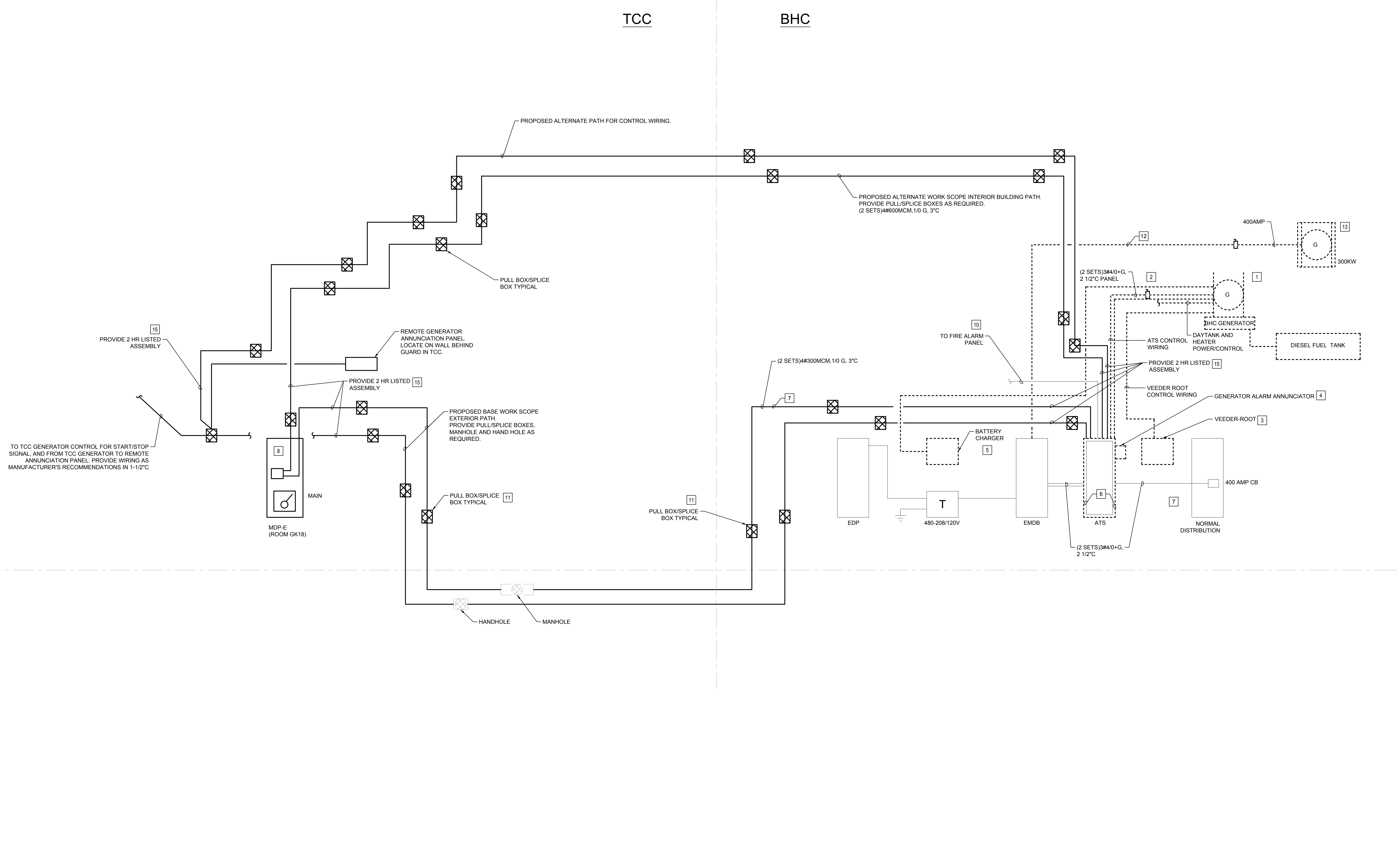
3/32" = 1'0"

GENERAL NOTES

1. XX



BHC GENERATOR RETIREMENT



PART RISER DIAGRAM

KEYNOTES

- 1 DISCONNECT AND REMOVE EXISTING BHC GENERATOR AND FUEL TANK. REMOVE GEN PAD, DIESEL FUEL, FUEL PIPING, ELECTRIC FEEDER AND CONTROL WIRE. ABANDON EMPTY CONDUIT BELOW GRADE AND REMOVE EXPOSED EMPTY CONDUIT ABOVE GRADE AND WITHIN BUILDING. PROVIDE CLEAN SOIL TO FILL IN HOLES LEFT BY DEMOLITION. GRADE TO MATCH SURROUNDING LANDSCAPE AND PROVIDE HEAVY GRASS SEED WITH STRAW ON TOP. CONTRACTOR SHALL RETAIN LICENSED TANK/PIPING REMOVAL COMPANY. WMC SHALL REMOVE MOST OF THE OIL FROM THE TANK AND OBTAIN PERMITS FOR TANK.
- 2 SWITCH PERTAINS TO ROLL UP GENERATOR. REMOVE SWITCH AND ASSOCIATED PIPE AND WIRE.
- 3 REMOVE VEEEDER ROOT AND ALL ASSOCIATED PIPE AND WIRE TO GENERATOR AND TANK.
- 4 REMOVE GENERATOR ALARM ANNUNCIATOR AND ALL ASSOCIATED PIPE AND WIRE.
- 5 REMOVE GENERATOR BATTERY CHARGER AND ALL ASSOCIATED PIPE AND WIRE.
- 6 REPLACE EXISTING 600 AMP ATS WITH NEW 400 AMP ASCO 7000 SERIES (NON BYPASS) AUTOMATIC TRANSFER SWITCH. RECONNECT NORMAL AND LOAD FEEDERS. REPLACE NORMAL AND LOAD FEEDERS, IF NECESSARY. DUE TO UNUSUAL CONDITION OR LENGTH. SET UP TIMING DELAYS AND SEQUENCES TO MATCH EXISTING ATS SETTINGS.
- 7 PROVIDE EXTERIOR CONDUIT PATH IN BASE BID. PROVIDE ALTERNATE BID COSTS FOR INTERIOR CONDUIT PATH.
- 8 PROVIDE 400 AMP CIRCUIT BREAKER TO MATCH EXISTING MANUFACTURER AND SHORT CIRCUIT RATING. PROVIDE LUGS TO MATCH FEEDER.
- 9 PROVIDE TEMPORARY 400 AMP ATS AND LOCATE IN BHC ELECTRIC ROOM. PROVIDE TEMPORARY FEEDERS FROM NORMAL DISTRIBUTION PANEL AND FROM TCC GENERATOR, AND FROM EMDB TO TEMPORARILY MAINTAIN AUTOMATIC EMERGENCY POWER TO BHC WHILE EXISTING ATS IS REMOVED AND REPLACED. PROVIDE TEMPORARY START/STOP CONTROL FROM TCC GENERATOR TO TEMPORARY ATS. PROVIDE TEMPORARY WORK AND SWINGOVER WORK ON NIGHTS AND WEEKENDS TO SUIT WMC. PROVIDE FIRE WATCH AND TEMPORARY LIGHTING IN STAIRS AND CORRIDORS WHILE EMERGENCY POWER IS DISCONNECTED.
- 10 PROVIDE NEW CONNECTION TO FIRE ALARM PANEL FROM NEW ATS. PULL NEW WIRE IN EXISTING CONDUIT.
- 11 NOT ALL PULL BOX/SPICE BOXES ARE SHOWN. PROVIDE PULL BOX/SPICE BOXES AS REQUIRED.
- 12 MAINTAIN ROLL UP GENERATOR FEEDER AND DISCONNECT SWITCH.
- 13 PROVIDE ROLL UP GENERATOR AND CONNECT TO EXTERIOR SWITCH. OPERATE GENERATOR WHEN BHC GENERATOR HAS BEEN DISCONNECTED AND ATS IS BEING REPLACED. THE ROLL UP GENERATOR WILL BECOME THE TEMPORARY "NORMAL" SOURCE.
- 14 PROVIDE TEMPORARY LIGHTING IN CORRIDORS AND STAIRS WITH BATTERY BACK-UP, AND OPERATE IN CONJUNCTION WITH ROLL UP GENERATOR.
- 15 PROVIDE U.L. LISTED 2 HR RATED ASSEMBLIES. CONCRETE ENCASED, OR M.I. CABLE, EXTEND 2 HR RATING FROM TCC ELECTRIC ROOM TO BHC ELECTRIC ROOM.

ISSUE INFORMATION

NO.	DATE	DESCRIPTION
1	2/27/2020	ISSUE FOR BID

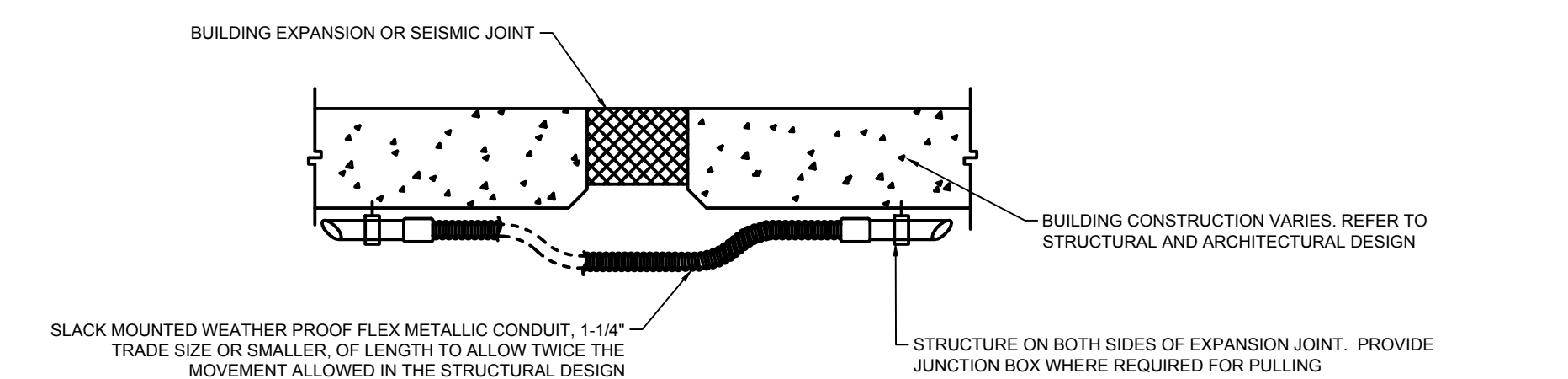
KEYPLAN

PROJECT NO. ME	ISSUED BY: ME
DRAWN BY: ME	REVIEWED BY: ME
ISSUE DATE:	

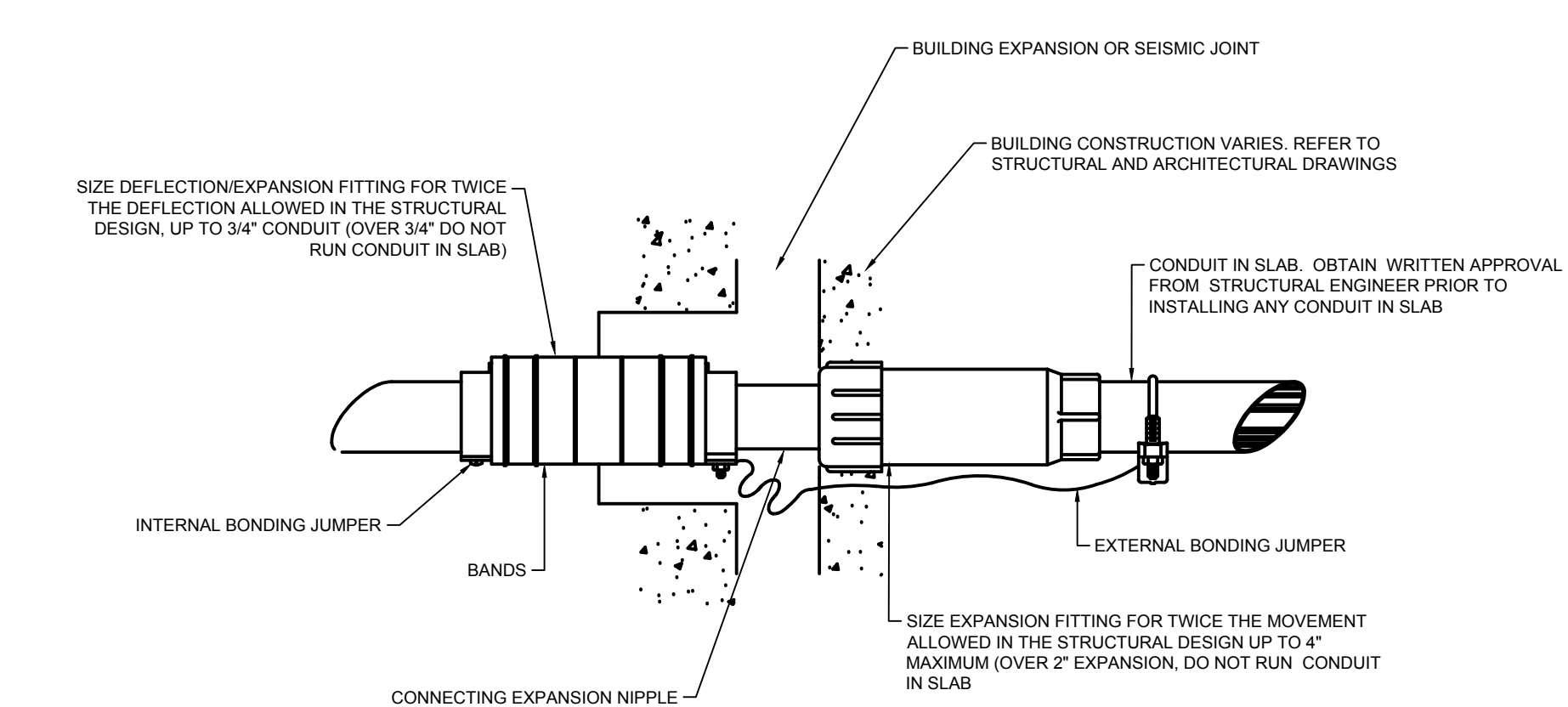
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ISSUE CATEGORY: BASE CATEGORY SHEET

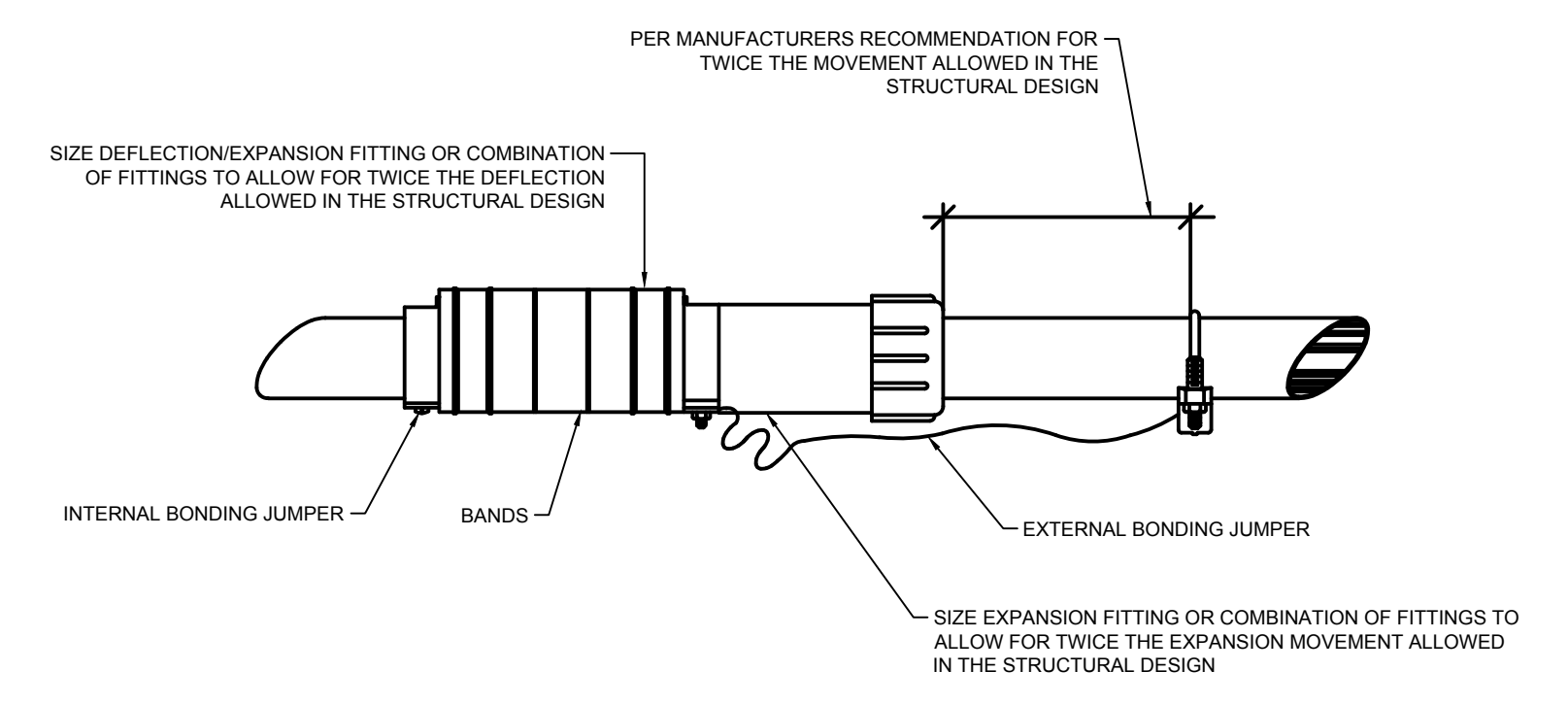
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FLEX CONDUIT EXPANSION/DEFLECTION

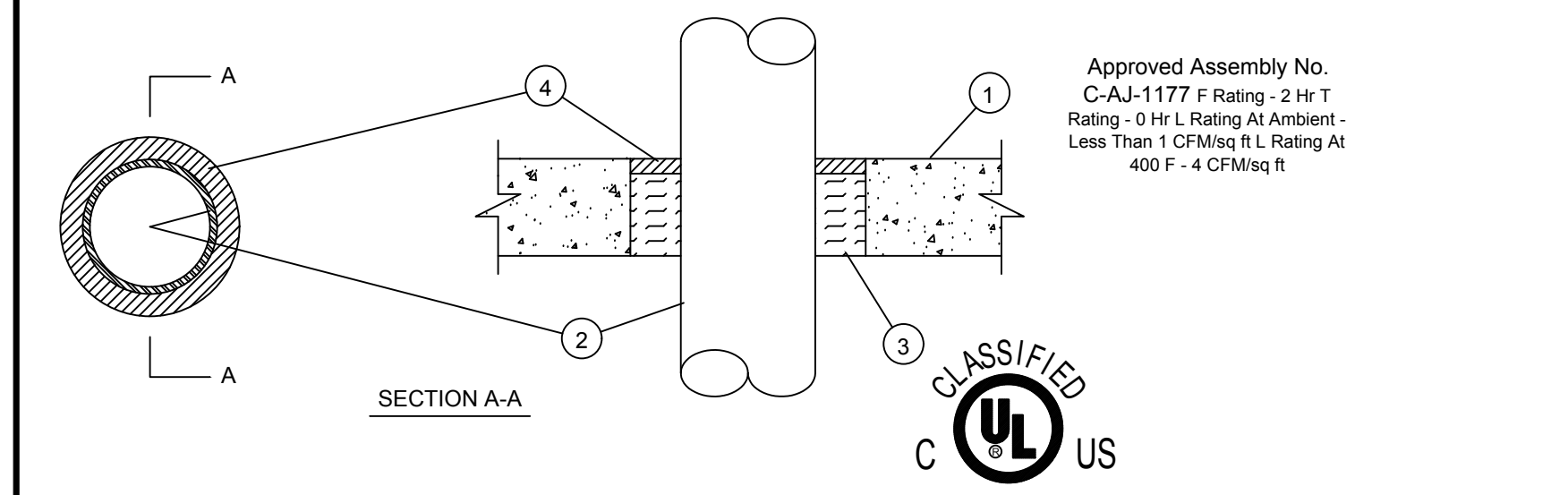


COMBINATION EXPANSION/DEFLECTION FITTING IN SLAB



ES2 SEISMIC EXPANSION FITTING DETAIL

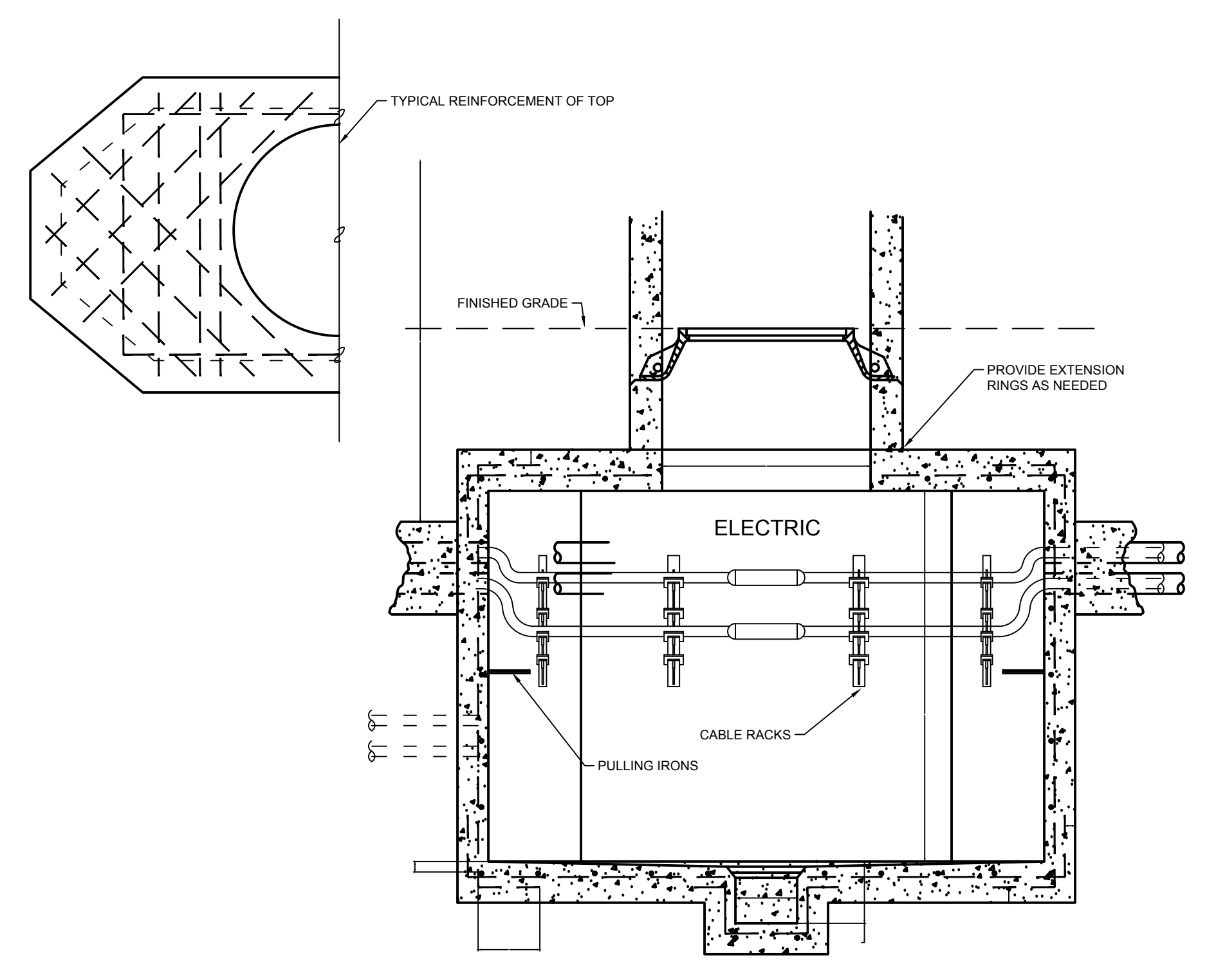
NO SCALE



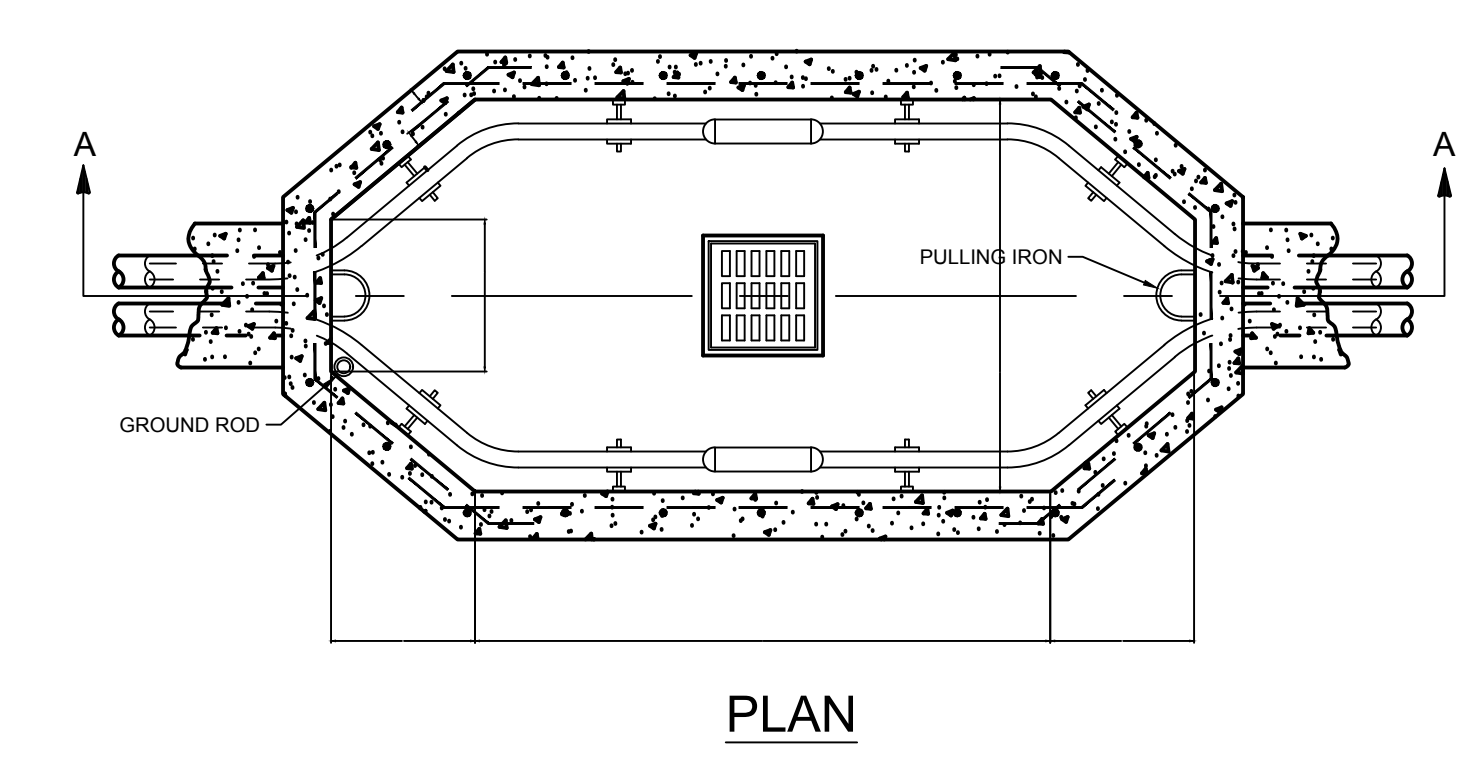
- Floor or Wall Assembly - Min 3-1/4 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete floor or min 3-3/4 in. thick reinforced lightweight or normal weight concrete wall. Wall may also be constructed of any UL Classified Concrete Block*. Max diam of opening is 6 in. See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
- Through Penetrants - One metallic pipe or conduit to be installed within the firestop system. Pipe or conduit to be rigidly supported on both sides of floor or wall assembly. The annular space shall be 3/4 in. The following types and sizes of metallic pipes or conduits may be used:
A. Steel Pipe - Nom 4 in. diam (or smaller) Schedule 40 (or heavier) steel pipe.
B. Conduit - Nom 4 in. diam (or smaller) steel conduit.
- Packing Material - Min 2-3/4 in. thickness of min 4.0 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
- Fill, Void or Cavity Material - Sealant - Min 1/2 in. thickness of fill material applied within the annulus. Flush with top surface of floor or with both surfaces of wall. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - CP601S, CP606, FS601, FS604 or FS-ONE Sealant (Note: L-Ratings apply only when FS-ONE Sealant is used). *Bearing the UL Classification Marking

FS2 TYPICAL SLAB PENETRATION DETAIL FOR 1-1/2" OR LESS

NO SCALE



SECTION A-A

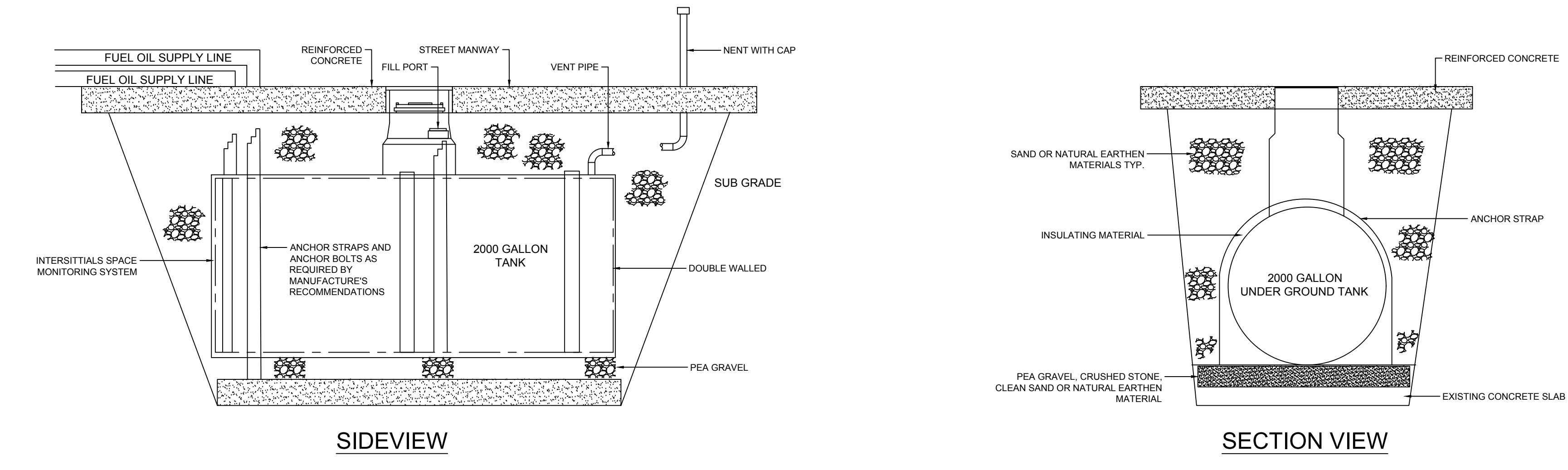


PLAN

- NOTE:
- REINFORCING BAR: 1/2" ROUND, DEFORMED. WALLS AND BOTTOM APPROX. 12" C. TO C. BOTH WAYS. TOP AS SHOWN.
 - THICKNESS OF CONCRETE: MANHOLE WALLS, TOP AND BOTTOM... 8" SUMP WALL AND BOTTOM... 10"

MH5 MANHOLE DETAIL

NO SCALE

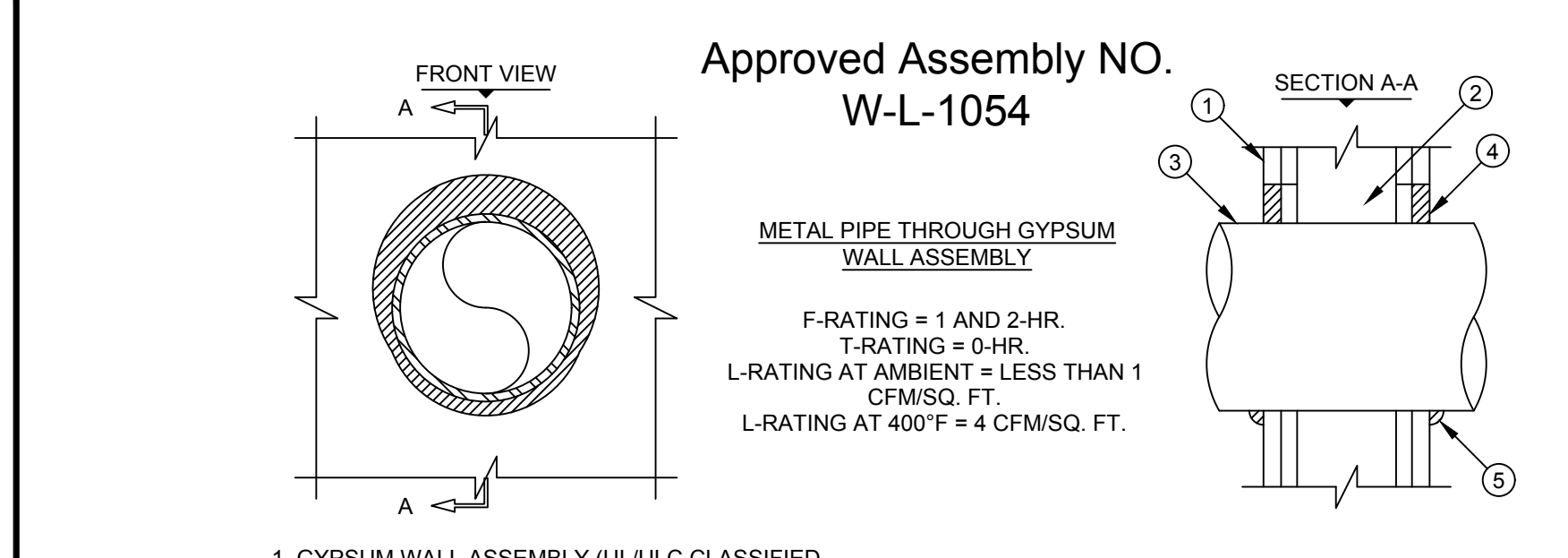


SIDEVIEW

SECTION VIEW

EXISTING UNDERGROUND TANK

NO SCALE



- Approved Assembly NO. W-L-1054
- METAL PIPE THROUGH GYPSUM WALL ASSEMBLY
- F-RATING = 1 AND 2 HR
T-RATING = 0 HR
L-RATING AT AMBIENT = LESS THAN 1 CFM/SG. FT.
L-RATING AT 400°F = 4 CFM/SG. FT.
- GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED L200 OR L400 SERIES) (1 HR. OR 2 HR. FIRE-RATING) (2-HR. SHOWN).
 - (NOT SHOWN) WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
 - PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
A. MAXIMUM 3/4" DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER)
B. MAXIMUM 3/4" DIAMETER CAST IRON PIPE
C. MAXIMUM 1/2" NOMINAL DIAMETER COPPER PIPE
D. MAXIMUM 1/2" NOMINAL DIAMETER STEEL CONDUIT
E. MAXIMUM 1/2" NOMINAL DIAMETER EMT
F. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT
G. MINIMUM 1/2" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT AT POINT OF CONTACT.
- NOTES: 1. MAXIMUM DIAMETER OF OPENING:
A. 3/4" FOR STEEL STUD WALLS.
B. 1 1/2" FOR WOOD STUD WALLS.
2. ANNULAR SPACE - MINIMUM 1/4" MAXIMUM 3/4".
3. PIPE MAY BE INSTALLED WITH CONTINUOUS POINT OF CONTACT.
4. PIPE MAY BE INSTALLED AT AN ANGLE NOT GREATER THAN 45° FROM PERPENDICULAR.

FS1 TYPICAL GYPSUM WALL DETAIL

NO SCALE

ISSUE INFORMATION	
PACKAGE	
REVISIONS	
NO.	DATE DESCRIPTION
1	2/27/2020 ISSUE FOR BID

KEYPLAN

PROJECT NO.	ISSUED BY:
ME	ME
DRAWN BY:	REVIEWED BY:
ME	ME
ISSUE DATE:	

SHEET TITLE:

ELECTRICAL DETAILS

ISSUE CATEGORY: SEE CATEGORY SHEET

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