

ELECTRICAL SYMBOL LEGEND

- 1 THE FOLLOWING GENERAL NOTES AS LISTED BELOW SHALL APPLY TO ALL ELECTRICAL REQUIREMENTS AS INDICATED ON ALL "E" SERIES CONTRACT DRAWINGS.
- 2 THE CONTRACTOR IS RESPONSIBLE FOR THE ENTIRE DOCUMENT SET. I.E. IF WORK IS SHOWN ON OTHER DRAWINGS AS "BY CONTRACTOR" THE CONTRACTOR IS RESPONSIBLE FOR THAT WORK.
- 3 DRAWINGS FOR THIS WORK ARE DIAGRAMMATIC AND INTENDED TO CONVEY THE GENERAL ARRANGEMENT AND LOCATIONS OF THE WORK. BECAUSE OF THE SCALE OF THE DRAWINGS, CERTAIN BASIC ITEMS SUCH AS ACCESS PANELS, CONDUITS, CABINET SIZES, PENETRATION SLEEVES, PULL BOXES, BACKBOXES AND JUNCTION BOXES MAY NOT BE SHOWN. INCLUDE ALL ITEMS WHERE REQUIRED BY CODE, MANUFACTURER AND RELATED SPECIFICATION SECTIONS FOR THE PROPER INSTALLATION OF ALL WORK.
- 4 DUE TO SCALE OF THE DRAWINGS, ALL ELECTRICAL DEVICE SYMBOLS ARE SHOWN ON DRAWINGS AS CLOSE AS POSSIBLE TO THEIR INTENDED LOCATION. CONTRACTOR SHALL COORDINATE IN THE FIELD THE PROPER INSTALLATION OF ALL EQUIPMENT, DEVICES, CONTROLS AND CONDUITS. REFER TO RELATED SPECIFICATION SECTIONS FOR ADDITIONAL REQUIREMENTS.
- 5 COORDINATE WITH ALL TRADES AND SYSTEM INTEGRATORS ANY CONDITIONS RELATED TO THE INSTALLATION OF ALL SYSTEMS. THE CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE TRADE ALL INSTALLATION REQUIREMENTS IMPACTING THE PLACEMENT OF ALL SYSTEM COMPONENTS TO THE SATISFACTION OF ALL CONCERNED TRADES.
- 6 COORDINATE EXACT LOCATION(S) OF ALL DATA AND TELEPHONE OUTLETS, ELECTRICAL RECEPTACLES WITH THE ARCHITECTURAL PLANS, FURNITURE PLANS AND ALL AFFECTED TRADES PRIOR TO INSTALLATION.
- 7 ALL CONDUITS SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH NFPA 70 AND PROJECT SPECIFICATIONS. ALL CONDUITS SHALL BE A MINIMUM OF 3/4" UNLESS OTHERWISE NOTED.
- 8 PROVIDE ALL EQUIPMENT CLEARANCES IN ACCORDANCE WITH NEC REQUIREMENTS. ARRANGE EQUIPMENT TO FACILITATE UNRESTRICTED ACCESS FOR MAINTENANCE AND SERVICE AROUND ALL EQUIPMENT, COMPONENTS AND/OR CABLE TERMINATIONS.
- 9 WHERE EQUIPMENT AND/OR JUNCTION BOXES ARE INSTALLED ABOVE FINISHED CEILING, THE CONTRACTOR SHALL PROVIDE ACCESS HATCHES LISTED FOR THE INTENDED APPLICATION. ACCESS HATCHES SHALL BE LOCATED SO THAT SERVICE ACCESS TO THE EQUIPMENT AND/OR JUNCTION BOXES IS UNIMPEDED.
- 10 ALL PENETRATIONS OF WALLS AND/OR FLOORS SHALL BE FIRE STOPPED IN ACCORDANCE WITH THE ASTM AND NFPA REQUIREMENTS. REFER TO RELATED SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION. INSTALLATION OF FIRE STOPS SHALL BE PERFORMED BY APPLICATIONS/INSTALLER QUALIFIED AND TRAINED BY THE MANUFACTURER. INSTALLATION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH MANUFACTURER'S DETAILED INSTALLATION PROCEDURES.
- 11 ALL EQUIPMENT ENCLLOSURES LOCATED OUTSIDE OR IN ALL AREAS WITH HIGH MOISTURE OR A RELATIVE HUMIDITY OF 75% OR GREATER SHALL BE NEMA 4X STAINLESS STEEL AND RATED FOR THAT APPLICATION.
- 12 ALL DEVICES, COMPONENTS OR EQUIPMENT INSTALLED ON THE EXTERIOR OF THE FACILITY SHALL BE PROVIDED IN ACCORDANCE WITH ALL MANUFACTURERS' REQUIREMENTS TO ENSURE THE PROPER OPERATION WHEN EXPOSED TO THE ENVIRONMENTAL CONDITIONS AND/OR AVERAGE ANNUAL LOWEST TEMPERATURE THAT CAN BE ANTICIPATED FOR THE GEOGRAPHIC REGION OF THE FACILITY.
- 13 ALL INTERIOR AND/OR EXTERIOR COMPONENTS, DEVICES OR SYSTEMS EQUIPMENT EXPOSED TO THE GENERAL POPULATION SHALL BE INSTALLED IN SECURED EQUIPMENT ENCLLOSURES WITH TAMPER SWITCHES AND INSTALLED IN SUCH A MANNER THAT RESISTS TAMPERING AND/OR REMOVAL WITHOUT THE USE OF SPECIALIZED TOOLS.
- 14 FOR EQUIPMENT INSTALLATIONS REQUIRING COORDINATION WITH OTHER TRADES THE CONTRACTOR SHALL PROVIDE ALL TEMPLATES, BACKBOXES AND EQUIPMENT ANCHOR BOLTS FOR MOUNTING OR FLUSH MOUNTING PREPARATION, (E.G. PEDIESTALS OR OTHER DEVICES REQUIRING MOUNTING ON WALLS, CONCRETE PADS OR OTHER MATERIALS), COORDINATE DELIVERY OF TEMPLATES AND EQUIPMENT WITH ALL AFFECTED CONTRACTORS.
- 15 ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (LATEST VERSION BEING ENFORCED), AND ALL OTHER APPLICABLE CODES AND STANDARDS BEING ENFORCED BY THE AUTHORITY HAVING JURISDICTION.

1. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS OR INSTRUCTIONS FOR CONSTRUCTION SAFETY. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ANY WORKMANS OR TRANSIENTS SAFETY, OR FOR THE ADEQUACY OF EQUIPMENT, BUILDING COMPONENTS, WORK AIDS, OR ANY NECESSITY TO WORK ON ENERGIZED ELECTRICAL COMPONENTS. FURTHER, NO SUPERINTENDENCE IS INCLUDED OR IMPLIED.
17. ALL SYSTEMS AND EQUIPMENT SHALL BE INSTALLED AND WIRED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
18. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE TESTED AND LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
19. THE CONTRACTOR SHALL COORDINATE ROUTING PLAN AND ELEVATION WITH THE LIGHTING, CEILING ELEVATION, STRUCTURE, DUCTWORK, PIPING, ETC. REQUIRED FOR THE COMPLETION OF THE PROJECT, PRIOR TO INSTALLATION.
20. THE CONTRACTOR SHALL SECURE AND PROTECT THE BUILDING AND/OR WORK AREA WITH FIRE RETARDANT TEMPORARY FLYWOOD PARTITIONS (WITH LOCKING DOORS), ETC. CLOSE ALL OPENINGS AS REQUIRED. COORDINATE THIS WORK WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING. IF TEMPORARY PARTITIONS IMPEDE THE FLOW OF EGRESS TO REQUIRED EGRESS DOORS AND STAIRS, THE CONTRACTOR SHALL PROVIDE EXIT SIGNS, AND SIGNAGE INDICATING SUCH.
21. THE CONTRACTOR SHALL CALCULATE JOINTS BETWEEN METAL FRAMES. THIS APPLIES TO BOTH INTERIOR AND EXTERIOR INSTALLATIONS.
22. THE DIMENSIONS SHOWN ON THE DRAWINGS ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO PERFORMING ANY WORK.
23. THE CONTRACTOR SHALL INSTALL ALL CONDUITS CONCEALED UNLESS NOTED OTHERWISE. EXPOSED CONDUIT SHALL ONLY BE INSTALLED IN CHASES, EXPOSED CEILING AREAS, JANITOR CLOSETS, AND MECHANICAL/ELECTRICAL ROOMS. EXPOSED CONDUIT INSTALLATION IS ACCEPTABLE IN ROOMS OR AREAS WITH EXPOSED CEILINGS. CONCEALED CONDUITS ARE REQUIRED IN ALL ROOMS WITH ACT OR DRYWALL CEILING.
24. ALL ELECTRICAL EQUIPMENT SHALL BE GROUNDED AND/OR BONDED PER THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE. PROVIDE ALL GROUNDING AND/OR BONDING COMPONENTS NOT EXPLICITLY SHOWN ON THE DOCUMENTS.
25. THE CONTRACTOR SHALL PROVIDE TYPEWRITTEN PANELBOARD DIRECTORIES, INDICATING THE LOADS SERVED BY THE RESPECTIVE PANELS. MENUS AS REQUIRED FOR AS-BUILT CONDITIONS. PROVIDE ELECTRONIC VERSIONS OF THE PANELBOARD SCHEDULES FOR FUTURE USE TO THE OWNER.
26. THE CONTRACTOR SHALL REVIEW THE WORK REQUIRED WITH THE APPLICABLE UTILITY COMPANIES SERVING THE PROJECT. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE INDIVIDUAL UTILITY COMPANIES.
27. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER PRIOR TO STARTING ALL PHASES OF THE PROJECT. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER WHAT WORK, IF ANY, HAS TO BE COMPLETED DURING SECOND OR THIRD SHIFT.
28. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY POWER CONNECTIONS TO KEEP AREAS UP AND OPERATIONAL DURING THE CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE THESE REQUIREMENTS WITH THE OWNER.
29. THE VERBAGE ON THE DRAWINGS INDICATING TYPES OF MATERIALS TO BE ENCOUNTERED IS INTENDED TO AID THE ELECTRICAL CONTRACTOR IN UNDERSTANDING THE VARIOUS CONDITIONS LIKELY TO BE ENCOUNTERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING QUANTITIES OF MATERIALS REQUIRED TO COMPLETE THE PROJECT.
30. THE LOCATIONS OF UTILITIES, STRUCTURE AND OTHER CONDITIONS SHOWN ON THE PLANS ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE UTILITY PROVIDERS AND REPORT ANY DISCREPANCIES TO THE REPRESENTATIVE PRIOR TO BEGINNING ANY WORK.
31. THE CONTRACTOR SHALL PROVIDE ALL OPENINGS IN PARTITIONS, EXTERIOR WALLS, FLOORS, AND ROOFS FOR THE INSTALLATION OF ALL ELECTRICAL WORK. TURNISH AND INSTALL ALL REQUIRED UNITS AND SLEEVES FOR THIS WORK. ALL CONDUITS SHALL HAVE SLEEVES INSTALLED. ALL SLEEVES INSTALLED THROUGH EXTERIOR WALLS SHALL HAVE LINK SLEEVES INSTALLED.
32. THE CONTRACTOR SHALL PROTECT ALL MATERIALS THAT ARE TO REMAIN IN PLACE FROM DAMAGE. ANY DAMAGE TO FINISHES, MATERIALS, ETC., SHALL BE REPLACED BY THE CONTRACTOR TO MATCH THE ADJACENT FINISH.
33. THE CONTRACTOR SHALL MAINTAIN THE BUILDING IN WEATHERIGHT AND WATERPROOF CONDITION THROUGHOUT THE DURATION OF THEIR WORK. DO NOT LEAVE HOLES, THROUGH WALLS AND/OR ROOFS OPEN TO THE ELEMENTS WHEN WORK IS OCCURRING IN THOSE AREAS.
34. PROVIDE ALL JUNCTION BOXES, PULL BOXES AND OTHER PULL POINTS AS REQUIRED TO MEET THE MAXIMUM NUMBER OF BENDS PER NEC REQUIREMENTS. NOT ALL CONDUITS, PULL BOXES AND OTHER RACEWAY ITEMS ARE DRAWN AND SPECIFIED. THE CONTRACTOR SHALL PROVIDE A COMPLETE RACEWAY SYSTEM MEETING THE REQUIREMENTS OUTLINED IN THE INSTRUCTIONS AND DOCUMENTATIONS.
35. DISTRIBUTION EQUIPMENT SHALL BE ARC RATED, AND ANY CIRCUIT BREAKERS SELECTED AND SET BASED ON THE OUTCOME OF THE CONTRACTORS OVERCURRENT PROTECTIVE DEVICE COORDINATION STUDY. STUDY SHALL INCLUDE ALL ELEMENTS OF THE DISTRIBUTION SYSTEM REQUIRED TO ACCURATELY SIZE AND RATE THE EQUIPMENT ABOVE AS PART OF THIS PROJECT.
36. ARC FLASH LABELS SHALL BE PROVIDED TO ALL EQUIPMENT BASED ON THE OUTCOME OF THE CONTRACTORS ARC FLASH STUDY (SEE NOTE 35 ABOVE FOR ADDITIONAL STUDY REQUIREMENTS). ANY EQUIPMENT MODIFIED AS PART OF THIS PROJECT SHALL ALSO BE INCLUDED IN THE ARC FLASH STUDY, AND RE LABELLED AS REQUIRED.
37. THESE DRAWINGS DO NOT INDICATE ALL CONDUITS INTERCONNECTING EQUIPMENT, AND WHERE CONDUITS ARE INDICATED, THE ROUTING IS APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR THE ROUTING AND INSTALLATION OF ALL CONDUIT IN COORDINATION WITH OTHER TRADES AND FIELD CONDITIONS.
38. PROVIDE ALL JUNCTION BOXES AND OTHER PULL POINTS AS REQUIRED FOR EASE OF PULLING AND A CODE COMPLIANT INSTALLATION. ALL JUNCTION BOXES AND OTHER PULL POINTS SHALL BE ACCESSIBLE.
39. MULTIWIRE BRANCH CIRCUITS ARE NOT PERMITTED. ALL SINGLE POLE BRANCH CIRCUITS SHALL HAVE A DEDICATED NEUTRAL AND GROUND.
40. MULTIPLE SMALL 20A/1P BRANCH CIRCUITS MAY SHARE A SINGLE CONDUIT PROVIDED THE CONTRACTOR UPDATES THE CONDUIT AS REQUIRED, AND THE AMPACITY ADJUSTMENTS FROM TABLE 310.15(B)(3)(a) HAVE BEEN APPLIED.

ELECTRICAL SYMBOL LEGEND		ELECTRICAL SYMBOL LEGEND	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SURFACE LIGHT (TYPE DENOTED)		MULTIOUTLET ASSEMBLY (TYPE DENOTED)
	SURFACE MOUNTED FLOODLIGHT (TYPE DENOTED)		CLOCK (TYPE DENOTED)
	RECESSED LIGHT (TYPE DENOTED)		POWER POLE (OPEN OFFICE STYLE)
	POLE MOUNTED LIGHT (TYPE DENOTED)		SURGERY SERVICE COLUMN
	POLE MOUNTED FLOODLIGHT (TYPE DENOTED)		STATIC GROUND RECEPTACLE (TYPE DENOTED)
	SURFACE LINEAR LIGHT (TYPE DENOTED)		LIGHTNING PROTECTION AIR TERMINAL
	SUSPENDED OR PENDANT LIGHT (TYPE DENOTED)		GROUND ROD (PLAN VIEW)
	RECESSED LINEAR LIGHT (TYPE DENOTED)		UTILITY SERVICE POWER POLE (SITE)
	STRIP LIGHT (TYPE DENOTED)		SPECIAL RECEIPT, OR CONN. (SEE SCHEDULE)
	TRACK AND TRACK LIGHT (TYPES DENOTED)		JUNCTION BOX
	EMERGENCY BATTERY LIGHT (TYPE DENOTED)		PULL BOX
	EXIT SIGN (TYPE DENOTED)		CIRCUIT BREAKER PANEL
	LIGHT FIXTURE ON (EM) LIFE SAFETY BRANCH		POWER OR DISTRIBUTION PANEL
	LIGHT FIXTURE ON (EM) CRITICAL BRANCH		TRANSFORMER (TYPE DENOTED)
	LIGHT ON CORD REEL (TYPE DENOTED)		COMB. MOTOR STARTER (FUSED)
	LIGHTING CHANNEL WIRE (TYPE DENOTED)		SAFETY DISC. SW. (NON-FUSED)
	SINGLE POLE SW.		SAFETY DISC. SW. (FUSED)
	2 POLE SINGLE THROW SW.		BUS SWITCH WITH PLUG IN DISCONNECT (FUSED)
	3-WAY SW.		RELAY
	4-WAY SW.		ENCLOSED CIRCUIT BREAKER
	VACANCY SENSOR SWITCH		PRESSURE SWITCH
	SW. WIPILLOT		FLOAT SWITCH
	DIMMER SWITCH		OCCUPANCY SENSOR - TYPE DENOTED
	OCCUPANCY SENSOR SWITCH		LIGHT LEVEL SENSOR - TYPE DENOTED
	VACANCY SENSOR DIMMER SWITCH		PHOTOZELL
	MULTI BUTTON LOW VOLTAGE SWITCH		TIME CONTROL SWITCH (TIME SWITCH)
	MOMENTARY CONTACT SWITCH		HUMIDISTAT
	TIMER SWITCH (1, 2, 4, 6, 8 & 12 HOUR OPTIONS)		THERMOSTAT
	KEYED SWITCH		SOLENOID VALVE
	EMERGENCY PUSH BUTTON		HALFTONE SYMBOL INDICATES EXISTING
	SINGLE RECEPT.		DASHED SYMBOL INDICATES REMOVED
	DUPLEX RECEPT.		
	SPLIT DUPLEX RECEPT.		
	ISOLATED GROUND RECEPT. (DUPLEX SHOWN)		
	RECEPT ON EMERGENCY CKT. (DUPLEX SHOWN)		
	FOURPLEX RECEPT.		
	FOURPLEX RECEPT. ON EMERGENCY CIRCUIT		
	240 VOLT RECEPT.		
	FLOOR RECEPT. (DUPLEX SHOWN)		
	RECEPT ON DROP CORD (DUPLEX SHOWN)		
	RECEPT ON CORD REEL (DUPLEX SHOWN)		

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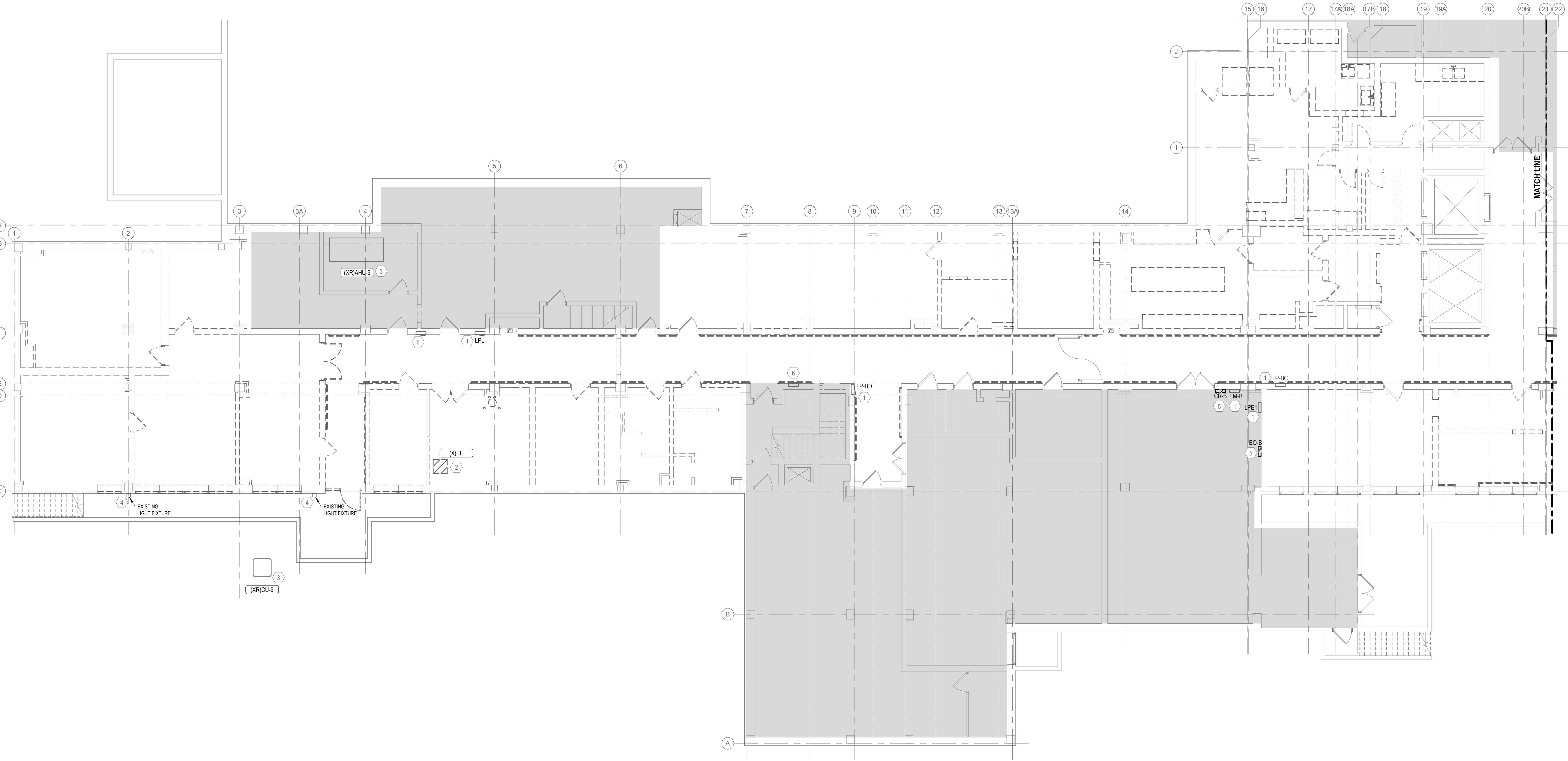
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ELECTRICAL DEMOLITION GENERAL NOTES

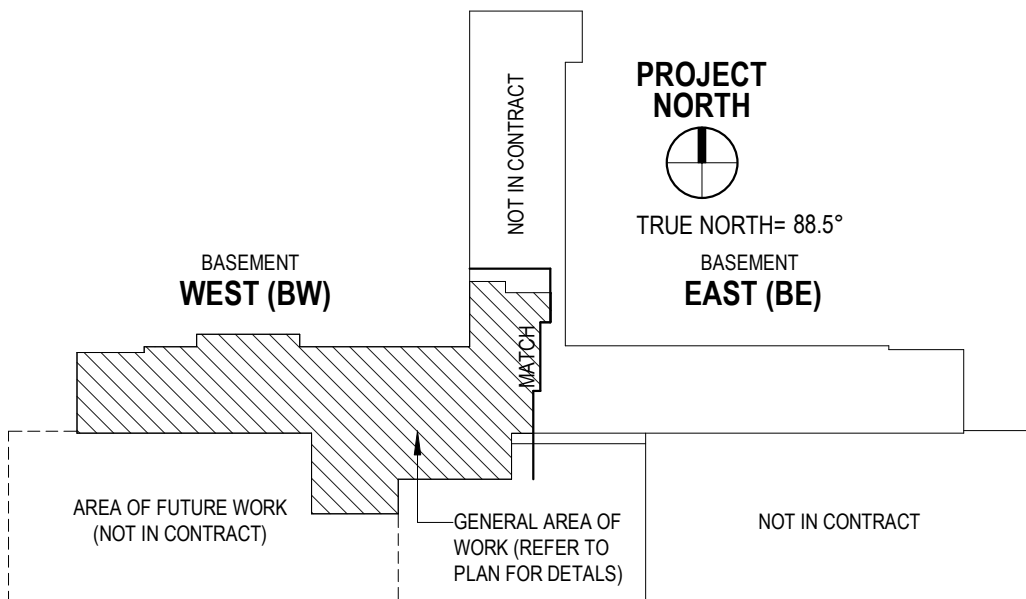
- UNLESS NOTED OTHERWISE, REMOVE ALL ELECTRICAL DEVICES FROM WITHIN THE AREA OF DEMOLITION WORK IDENTIFIED WITHOUT SHADED BOUNDARIES. SHADED BOUNDARIES INDICATE OUT OF SCOPE AREAS. THE DEVICES TO BE REMOVED INCLUDE BUT ARE NOT LIMITED TO: RECEPTACLES, SWITCHES, JUNCTION BOXES, LIGHTS, LIGHTING CONTROLS, PANELBOARDS IN POOR CONDITION AND FLOOR BOXES. REMOVE ALL ASSOCIATED CONDUIT AND WIRE BACK TO THE UPSTREAM DISTRIBUTION DEVICE. THE INTENT IS FOR ALL DEVICES TO BE REMOVED FROM FLOOR TO ALLOW THE RENOVATION AND INSTALLATION OF ALL NEW DEVICES AS SHOWN ON THE NEW WORK DOCUMENTS. EXISTING DEVICES SHOWN ARE DIAGRAMMATIC AND BASED ON FIELD SURVEYS AND/OR RECORD DRAWINGS PROVIDED BY THE OWNER AND DOES NOT REPRESENT THE FULL SCOPE OF DEMOLITION WORK. THE ACTUAL CONDITIONS MAY VARY. ALL EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO BID. THE PLANS ARE INTENDED TO SHOW THE LOCATIONS OF EXISTING DEVICES AND IN NO WAY RELIEVES THE CONTRACTOR FROM PROVIDING ANY AND ALL COORDINATION NECESSARY TO COMPLETE THE NEW WORK. FIELD CONDITIONS SHALL GOVERN. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCEMENT OF WORK AND OBTAIN CLARIFICATIONS FROM ARCHITECT/ENGINEER IF NECESSARY.
- OWNER SHALL HAVE RIGHT OF FIRST REFUSAL TO ANY EQUIPMENT, DEVICES, LUMINAIRES, ETC. DEMOLISHED FROM RENOVATION AREA PRIOR TO DISPOSAL.
- MAINTAIN CONTINUITY OF SERVICE TO AREAS OUTSIDE THE PROJECT BOUNDARY. PATCH AND REPAIR ALL CIRCUITS CUT OFF DURING DEMOLITION BY WIRING METHODS COMPATIBLE WITH THE EXISTING INSTALLATION.
- THE ELECTRICAL CONTRACTOR SHALL REVIEW THE DRAWING OF ALL OTHER TRADES IN THIS CONTRACT. THE REMOVAL OF ELECTRICAL SERVICE TO ALL EQUIPMENT IDENTIFIED ON OTHER TRADE DRAWINGS IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- EXERCISE EXTREME CAUTION WHEN REMOVING/RELOCATING WIRING AND EQUIPMENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT OTHER WIRING DEVICES, EQUIPMENT AND LIGHT FIXTURES THAT MAY BE CONNECTED TO THE SAME CIRCUIT REMAIN OPERATIONAL AND ACTIVE.

ELECTRICAL DEMOLITION KEYNOTES

- EXISTING PANELBOARD TO REMAIN. DEMOLISH EXISTING BRANCH CIRCUITS OF DEMOLISHED DEVICES IN THEIR ENTIRETY INCLUDING BUT NOT LIMITED TO WIRING, CONDUIT, AND HANGERS. THE EXISTING CIRCUIT BREAKERS ARE TO REMAIN IN PLACE.
- DEMOLISH EXISTING BRANCH CIRCUIT TO MECHANICAL EQUIPMENT IN ITS ENTIRETY BACK TO THE SOURCE PANEL. INCLUDING BUT NOT LIMITED TO DISCONNECTING DEVICE, STARTER, CONDUIT, WIRING, AND HANGERS. THE EXISTING CIRCUIT BREAKERS ARE TO REMAIN IN PLACE.
- THE EXISTING BRANCH CIRCUIT FOR THE NOTED MECHANICAL EQUIPMENT IS TO REMAIN IN PLACE AND BE KEPT ENERGIZED.
- EXISTING LIGHT FIXTURE SHALL REMAIN. CONTRACTOR SHALL ENSURE THAT ELECTRICAL CONNECTIONS AND FIXTURE MOUNTING IS PRESERVED THROUGHOUT THE CONSTRUCTION PROCESS.
- EXISTING PANELBOARD TO BE REPLACED WITH NEW PANELBOARD. ALL EXISTING TO REMAIN CIRCUITS SHALL BE RE-FED FROM THE NEW PANEL. REFERENCE SHEET ED01 FOR PANELBOARD INFORMATION AND ONE LINE DIAGRAM ON SHEET E301.
- EXISTING ELECTRICAL EQUIPMENT TO REMAIN. DEMOLISH EXISTING BRANCH CIRCUITS OF DEMOLISHED DEVICES IN THEIR ENTIRETY INCLUDING BUT NOT LIMITED TO WIRING, CONDUIT, AND HANGERS. CIRCUIT BREAKERS WITH EXISTING LOADS OR LOADS OUTSIDE OF THE SCOPE OF WORK ARE TO REMAIN IN PLACE.

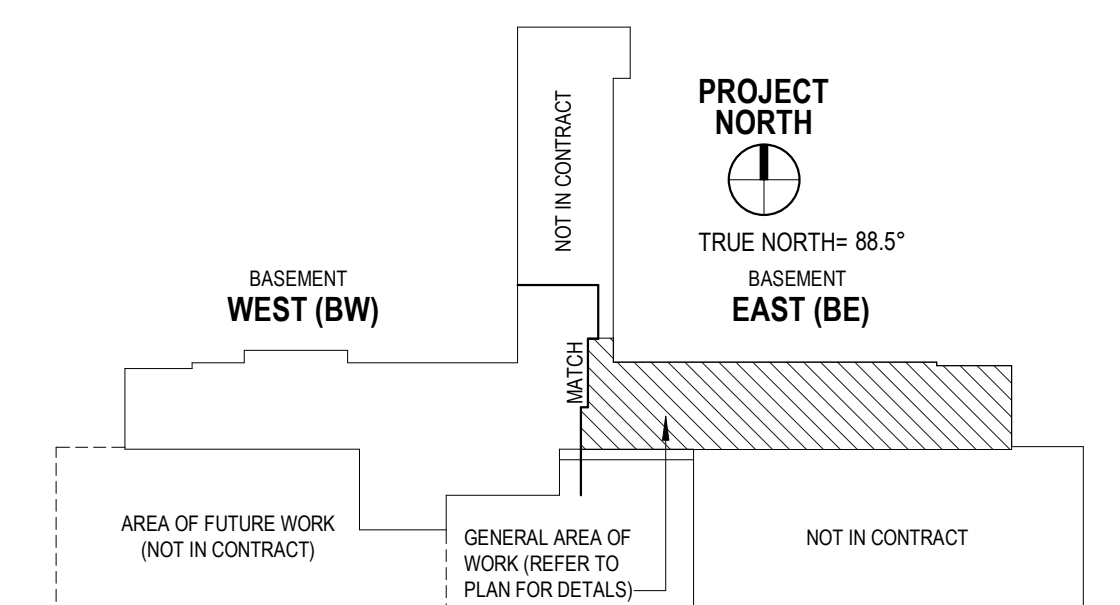


1 ELECTRICAL DEMOLITION PLAN - BASEMENT WEST
1/8" = 1'-0"



			Consultant	Architect/Engineer of Record	Stamp	OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT	Drawing Title		Phase		Project Title		Project Number		
		ELECTRICAL DEMOLITION PLAN - BASEMENT WEST					BID DOCUMENTS		RENOVATE BASEMENT, BUILDING 1		610A4-19-104				
		Approved:					Sprinkler Status		Location		Building Number				
							FULLY SPRINKLERED		2121 LAKE AVE, FORT WAYNE, IN 46805		01				
#		Revisions		Date		VA		U.S. Department of Veterans Affairs		Issue Date		Checked		Drawn	
										07/15/2020		BK		TJR	
														ED101W	

- 1 EXISTING PAINELBOARD TO REMAIN. DEMOLISH EXISTING BRANCH CIRCUITS OF DEMOLISHED DEVICES IN THEIR ENTIRETY INCLUDING BUT NOT LIMITED TO WIRING, CONDUIT, AND HANGERS. THE EXISTING CIRCUIT BREAKERS ARE TO REMAIN IN PLACE.
- 2 EXISTING EXISTING BRANCH CIRCUIT TO MECHANICAL EQUIPMENT IN ITS ENTIRETY BACK TO THE SOURCE PANEL INCLUDING BUT NOT LIMITED TO DISCONNECTING DEVICE, STARTER, CONDUIT, WIRING, AND HANGERS. THE EXISTING CIRCUIT BREAKERS ARE TO REMAIN IN PLACE.
- 3 THE EXISTING BRANCH CIRCUIT FOR THE NOTED MECHANICAL EQUIPMENT IS TO REMAIN IN PLACE AND BE KEPT ENERGIZED.
- 4 ALL ELECTRICAL EQUIPMENT IN THIS ROOM IS EXISTING TO REMAIN. THE DISCONNECT SWITCH, QUAD OUTLET AND ALL OTHER OUTLETS IN THE AREA ARE TO REMAIN IN PLACE AND MAINTAIN OPERATION THROUGHOUT THE ARCHITECTURAL NEW WORK INSTALLATION. BATTERY RACK AND DATA RACK SHALL BE RELOCATED TO THE RAISED FLOOR PLATFORM AFTER ARCHITECTURAL NEW WORK IS COMPLETE. ANY ELECTRICAL DEVICES THAT MAY FALL BELOW THE RAISED FLOOR SHALL BE RELOCATED.
- 5 EXISTING ELECTRICAL EQUIPMENT, RECEPTACLE, AND CIRCUITS TO REMAIN AND MAINTAIN OPERATION THROUGHOUT THE NEW WORK INSTALLATION.
- 6 EXISTING ELECTRICAL EQUIPMENT TO REMAIN. DEMOLISH EXISTING BRANCH CIRCUITS OF DEMOLISHED DEVICES IN THEIR ENTIRETY INCLUDING BUT NOT LIMITED TO WIRING, CONDUIT, AND HANGERS. CIRCUIT BREAKERS WITH EXISTING LOADS OR LOADS OUTSIDE OF THE SCOPE OF WORK ARE TO REMAIN IN PLACE.

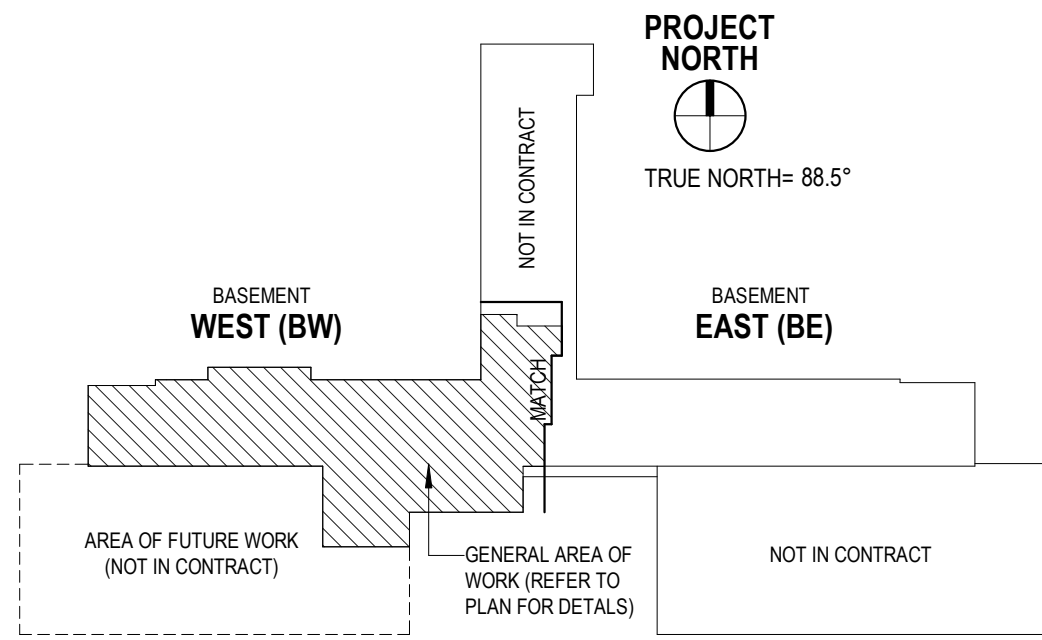
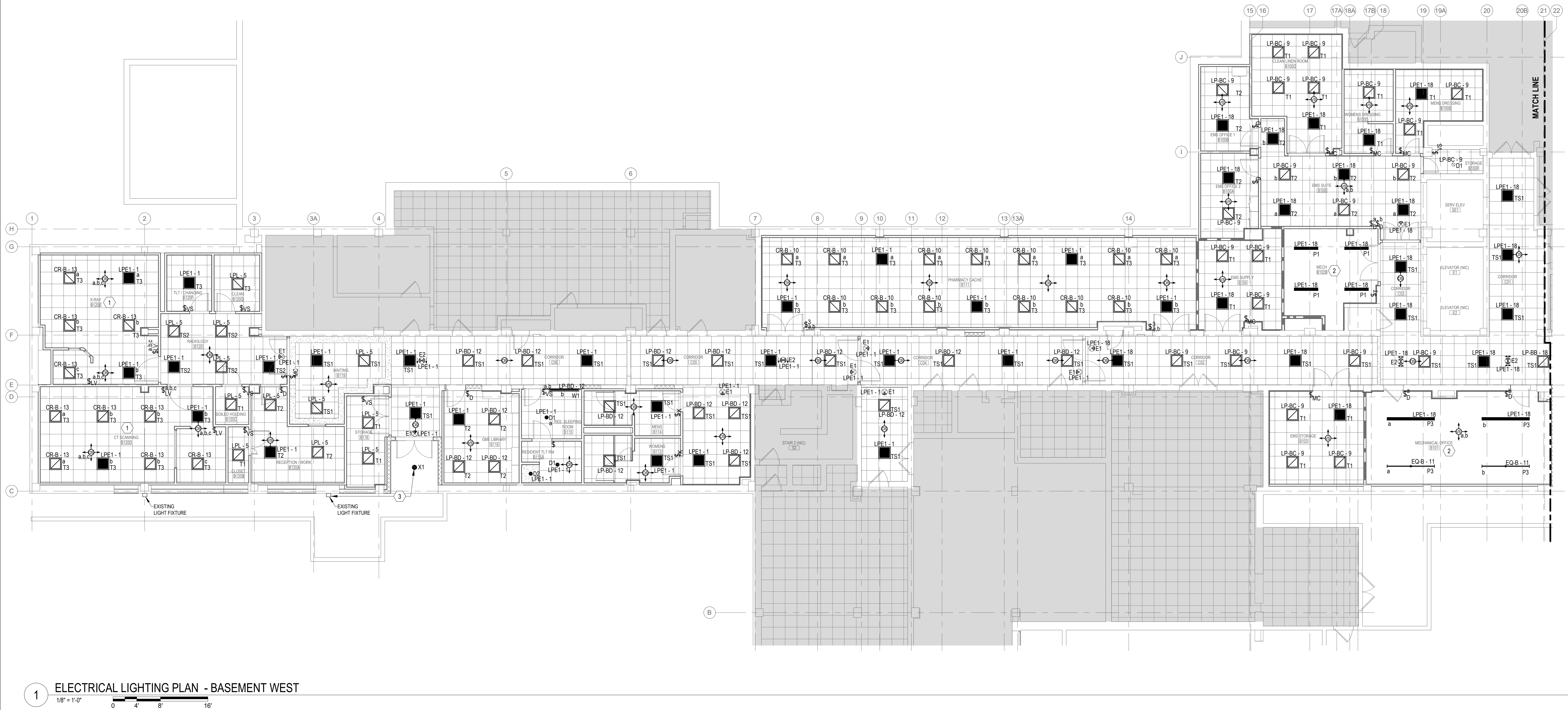
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LIGHTING PLAN GENERAL NOTES

1. ALL EXIT SIGNS SHALL BE POWERED FROM THE CIRCUIT INDICATED AND UNSWITCHED.
2. ALL LIGHTING FIXTURES POWERED FROM AN EMERGENCY GENERATOR CIRCUIT SHALL BE PROVIDED WITH A UL924 LISTED AUTOMATIC LOAD CONTROL RELAY TO PERMIT LOCAL CONTROL WITH ADJACENT FIXTURES AND BY-PASS OF LOCAL CONTROL, INCLUDING BUT NOT LIMITED TO SWITCHES, OCCUPANCY SENSORS AND DIMMERS IN THE ABSENCE OF NORMAL POWER. UPON LOSS OF NORMAL POWER, THE LIGHTING CONTROL SHALL BE BY-PASSED, DIMMED FIXTURES SHALL COME TO FULL ILLUMINATION AND SHALL NOT BE ALLOWED TO TURN OFF.
3. COORDINATE FINAL LOCATIONS OF FIXTURES WITH THE REFLECTED CEILING PLAN. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER.
4. COORDINATE ALL MOUNTING HEIGHTS WITH THE ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN.
5. WHERE MORE THAN ONE SWITCH OCCURS IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN GANG TYPE BOX UNDER THE COOPERATE. MINIMUM CONDUIT SIZE IS 3/4" MINIMUM WIRE SIZE SHALL BE #12 AWG. ALL WIRE TO BE STRANDED COPPER.
6. THE OCCUPANCY SENSORS INDICATED ON THE DRAWINGS ARE SHOWN FOR DESIGN INTENT ONLY. THE EXACT QUANTITY OF SENSORS SHALL BE DETERMINED BY THE ELECTRICAL CONTRACTOR PRIOR TO INSTALLING SENSORS BASED ON THE MANUFACTURER'S RECOMMENDATION. PROVIDE 100% COVERAGE OF EACH INDIVIDUAL ROOMSPACE SHOWN ON THE DRAWINGS. DO NOT INSTALL SENSORS PRIOR TO SUBMITTING COVERAGE LAYOUTS FOR EACH INDIVIDUAL ROOMSPACE TO THE ENGINEER FOR APPROVAL. DO NOT INSTALL SENSORS SUCH THAT THEY CAN POTENTIALLY "SEE" THROUGH OPEN DOORWAYS. INSTALL ALL LOW VOLTAGE POWER PACKS DIRECTLY ABOVE LOCAL WALL SWITCHES IN THE AREA. DO NOT INSTALL ULTRASONIC OR DUAL TECHNOLOGY SENSORS WITHIN 24" OF SUPPLY DIFFUSERS.
7. ALL EMERGENCY EGRESS ILLUMINATION SHALL BE AVERAGE 1 FC AND A MINIMUM OF 0.1 FC FOR PATH OF EGRESS.
8. PROVIDE EQUIPMENT GROUND CONDUCTOR IN ALL RACEWAYS. REFER TO PANELBOARD SCHEDULES.
9. ROUTE CONDUIT HIGH AGAINST STRUCTURE AND OFFSET UP BETWEEN JOISTS WHERE NECESSARY TO AVOID DUCT WORK AND HVAC SYSTEM.
10. PROVIDE CONDUIT AND WIRING AS REQUIRED TO MEET CIRCUITING SHOWN TO CONFORM TO NEC REQUIREMENTS.

LIGHTING PLAN KEYNOTES

1. PROVIDE A ROOM BASED LOW VOLTAGE LIGHTING CONTROL SYSTEM WITH MULTI BUTTON LOW VOLTAGE SWITCH CONTROL FOR THE FIXTURES WITHIN THE INDICATED ROOM ON PLAN. REFER TO DETAIL 6 ON SHEET E301.
2. LIGHTING FIXTURES SHALL BE COORDINATED WITH MECHANICAL EQUIPMENT AND DUCTWORK/PIPPING. LIGHTING FIXTURES SHALL BE INSTALLED BELOW DUCT AND PIPE RUNS TO AVOID OBSTRUCTIONS.
3. NEW EXTERIOR LIGHT FIXTURE SHALL BE POWERED AND CONTROLLED FROM THE SAME CIRCUIT AND CONTROL SYSTEM AS THE EXISTING TO REMAIN EXTERIOR LIGHT FIXTURES. CONDUIT AND WIRING SHALL BE ROUTED CONCEALED.

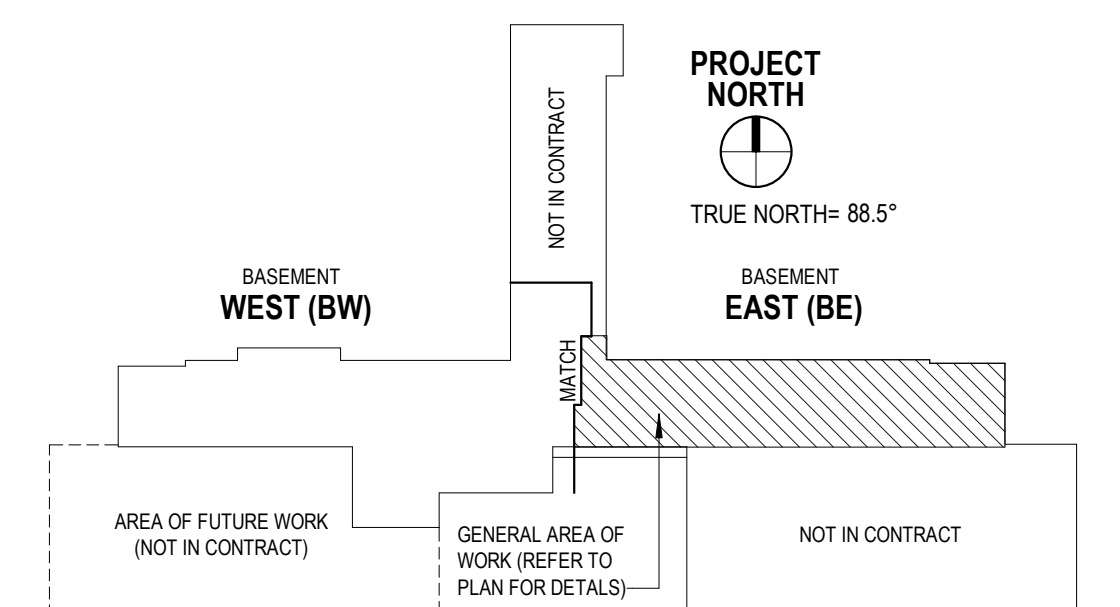


1 ELECTRICAL LIGHTING PLAN - BASEMENT WEST
1/8" = 1'-0"

Revisions		Consultant	Architect/Engineer of Record	Stamp	Drawing Title	Phase	Project Title	Project Number
Date			AE WORKS.	COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER 07/15/2020	ELECTRICAL LIGHTING PLAN - BASEMENT WEST	BID DOCUMENTS	RENOVATE BASEMENT, BUILDING 1	610A4-19-104
			AE Works 209 SANDUSKY STREET PITTSBURGH, PA 15212 412-287-7333		Approved:	Sprinkler Status	Location	Building Number
						FULLY SPRINKLERED	2121 LAKE AVE, FORT WAYNE, IN 46805	01
							Issue Date	Drawing Number
							07/15/2020	E101W
							Checked	
							BK	
							Drawn	
							TJR	

LIGHTING PLAN KEYNOTES

- 1 LIGHTING FIXTURES SHALL BE COORDINATED WITH MECHANICAL EQUIPMENT AND DUCTWORK/PIPING. LIGHTING FIXTURES SHALL BE INSTALLED BELOW DUCT AND PIPE RUNS TO AVOID OBSTRUCTIONS.



1 ELECTRICAL LIGHTING PLAN - BASEMENT EAST

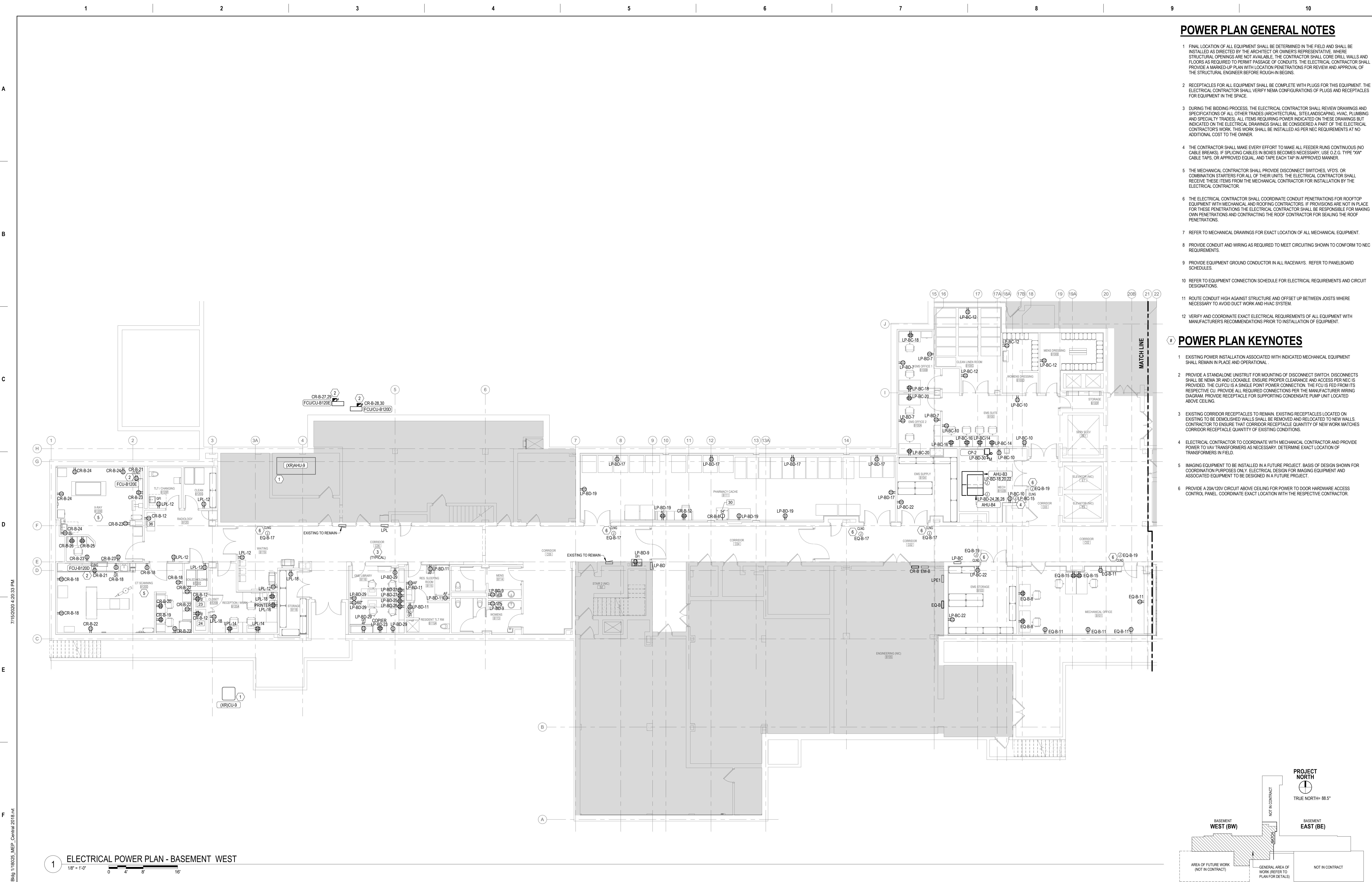
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POWER PLAN GENERAL NOTES


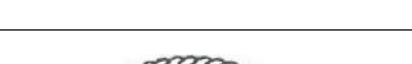
- FINAL LOCATION OF ALL EQUIPMENT SHALL BE DETERMINED IN THE FIELD AND SHALL BE INSTALLED AS DIRECTED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE. WHERE STRUCTURAL OPENINGS ARE NOT AVAILABLE, THE CONTRACTOR SHALL CORE DRILL WALLS AND FLOORS AS REQUIRED TO PERMIT PASSAGE OF CONDUITS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A MARKED-UP PLAN WITH LOCATION PENETRATIONS FOR REVIEW AND APPROVAL OF THE STRUCTURAL ENGINEER BEFORE ROUGH-IN BEGINS.
- RECEPTACLES FOR ALL EQUIPMENT SHALL BE COMPLETE WITH PLUGS FOR THIS EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL VERIFY NEMA CONFIGURATIONS OF PLUGS AND RECEPTACLES FOR EQUIPMENT IN THE SPACE.
- DURING THE BIDDING PROCESS, THE ELECTRICAL CONTRACTOR SHALL REVIEW DRAWINGS AND SPECIFICATIONS OF ALL OTHER TRADES (ARCHITECTURAL, SITE/LANDSCAPING, HVAC, PLUMBING AND SPECIALTY TRADES). ALL ITEMS REQUIRING POWER INDICATED ON THESE DRAWINGS BUT INDICATED ON THE ELECTRICAL DRAWINGS SHALL BE CONSIDERED A PART OF THE ELECTRICAL CONTRACTOR'S WORK. THIS WORK SHALL BE INSTALLED AS PER NEC REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MAKE ALL FEEDER RUNS CONTINUOUS (NO CABLE BREAKS). IF SPLICING CABLES IN BOXES BECOMES NECESSARY, USE 0.2 G. TYPE "XW" CABLE TAPS, OR APPROVED EQUAL, AND TAPE EACH TAP IN APPROVED MANNER.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCHES, VFD'S, OR COMBINATION STARTERS FOR ALL OF THEIR UNITS. THE ELECTRICAL CONTRACTOR SHALL RECEIVE THESE ITEMS FROM THE MECHANICAL CONTRACTOR FOR INSTALLATION BY THE ELECTRICAL CONTRACTOR.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE CONDUIT PENETRATIONS FOR ROOFTOP EQUIPMENT WITH MECHANICAL AND ROOFING CONTRACTORS. IF PROVISIONS ARE NOT IN PLACE FOR THESE PENETRATIONS THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING OWN PENETRATIONS AND CONTRACTING THE ROOF CONTRACTOR FOR SEALING THE ROOF PENETRATIONS.
- REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF ALL MECHANICAL EQUIPMENT.
- PROVIDE CONDUIT AND WIRING AS REQUIRED TO MEET CIRCUITING SHOWN TO CONFORM TO NEC REQUIREMENTS.
- PROVIDE EQUIPMENT GROUND CONDUCTOR IN ALL RACEWAYS. REFER TO PANELBOARD SCHEDULES.
- REFER TO EQUIPMENT CONNECTION SCHEDULE FOR ELECTRICAL REQUIREMENTS AND CIRCUIT DESIGNATIONS.
- ROUTE CONDUIT HIGH AGAINST STRUCTURE AND OFFSET UP BETWEEN JOISTS WHERE NECESSARY TO AVOID DUCT WORK AND HVAC SYSTEM.
- VERIFY AND COORDINATE EXACT ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT WITH MANUFACTURER'S RECOMMENDATIONS PRIOR TO INSTALLATION OF EQUIPMENT.

POWER PLAN KEYNOTES

- EXISTING POWER INSTALLATION ASSOCIATED WITH INDICATED MECHANICAL EQUIPMENT SHALL REMAIN IN PLACE AND OPERATIONAL.
- PROVIDE A STANDALONE UNISTRUT FOR MOUNTING OF DISCONNECT SWITCH. DISCONNECTS SHALL BE NEMA 3R AND LOCKABLE. ENSURE PROPER CLEARANCE AND ACCESS PER NEC IS PROVIDED. THE CU/CU IS A SINGLE POINT POWER CONNECTION. THE CU IS FED FROM ITS RESPECTIVE CU. PROVIDE ALL REQUIRED CONNECTIONS PER THE MANUFACTURER WIRING DIAGRAM. PROVIDE RECEPTACLE FOR SUPPORTING CONDENSATE PUMP UNIT LOCATED ABOVE CEILING.
- EXISTING CORRIDOR RECEPTACLES TO REMAIN. EXISTING RECEPTACLES LOCATED ON EXISTING TO BE DEMOLISHED WALLS SHALL BE REMOVED AND RELOCATED TO NEW WALLS. CONTRACTOR TO ENSURE THAT CORRIDOR RECEPTACLE QUANTITY OF NEW WORK MATCHES CORRIDOR RECEPTACLE QUANTITY OF EXISTING CONDITIONS.
- ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE POWER TO VAV TRANSFORMERS AS NECESSARY. DETERMINE EXACT LOCATION OF TRANSFORMERS IN FIELD.
- IMAGING EQUIPMENT TO BE INSTALLED IN A FUTURE PROJECT. BASIS OF DESIGN SHOWN FOR COORDINATION PURPOSES ONLY. ELECTRICAL DESIGN FOR IMAGING EQUIPMENT AND ASSOCIATED EQUIPMENT TO BE DESIGNED IN A FUTURE PROJECT.
- PROVIDE A 20A/120V CIRCUIT ABOVE CEILING FOR POWER TO DOOR HARDWARE ACCESS CONTROL PANEL. COORDINATE EXACT LOCATION WITH THE RESPECTIVE CONTRACTOR.



1 ELECTRICAL POWER PLAN - BASEMENT WEST

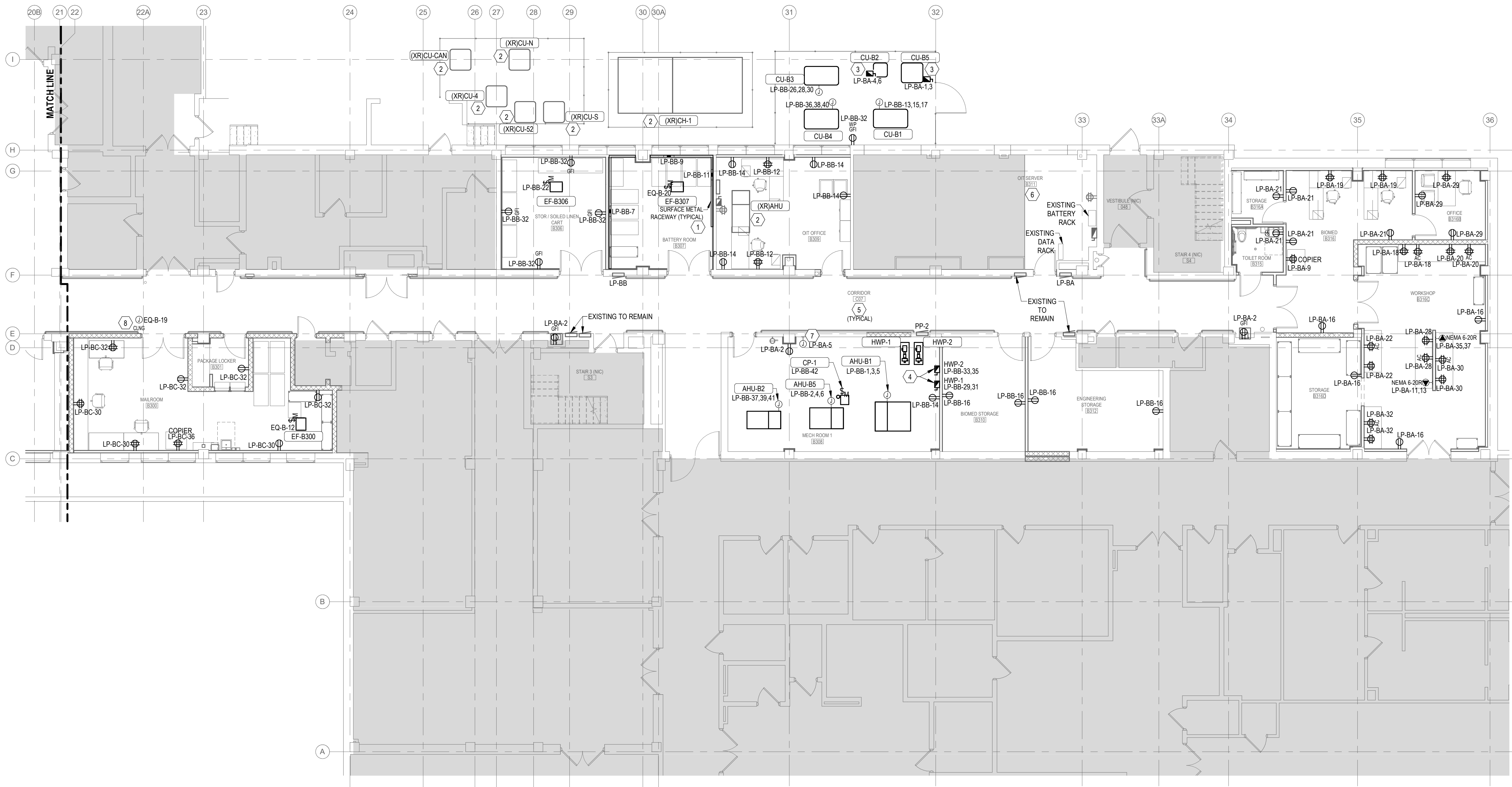
		Consultant		Architect/Engineer of Record		Stamp		OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT		Drawing Title ELECTRICAL POWER PLAN - BASEMENT WEST		Phase BID DOCUMENTS		Project Title RENOVATE BASEMENT, BUILDING 1		Project Number 610A4-19-104	
				 <div>AE Works 209 SANDUSKY STREET PITTSBURGH, PA 15212 412-287-7333</div>				<div>VA</div> <div>U.S. Department of Veterans Affairs</div>		Approved:		Sprinkler Status FULLY SPRINKLERED		Location 2121 LAKE AVE, FORT WAYNE, IN 46805		Building Number 01	
				Issue Date 07/15/2020		Checked BK								Drawn TJR		E201W	
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POWER PLAN GENERAL NOTES

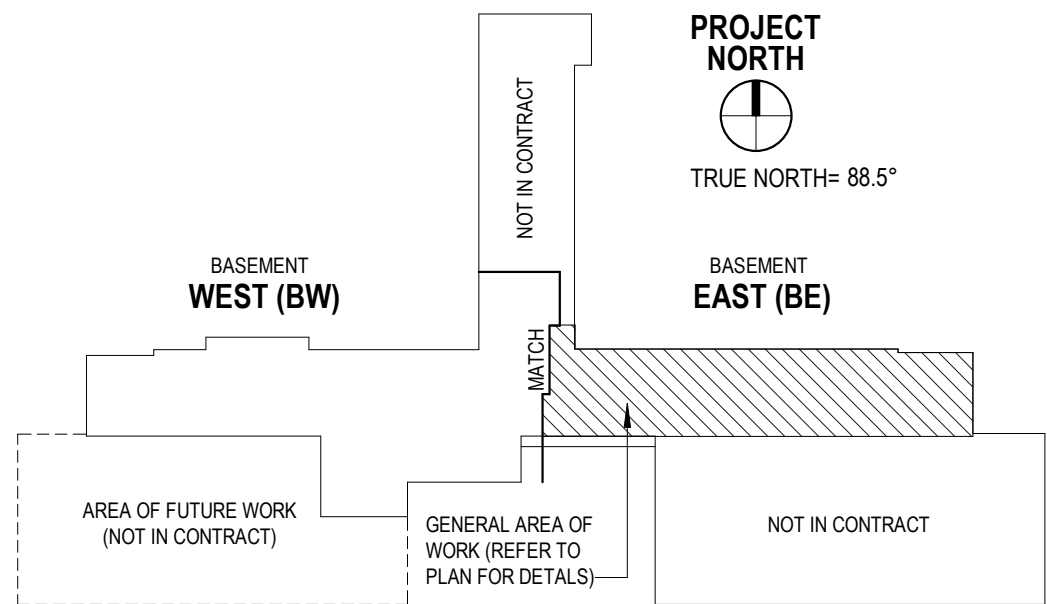
- 1 FINAL LOCATION OF ALL EQUIPMENT SHALL BE DETERMINED IN THE FIELD AND SHALL BE INSTALLED AS DIRECTED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE. WHERE STRUCTURAL OPENINGS ARE NOT AVAILABLE, THE CONTRACTOR SHALL CORE DRILL WALLS AND FLOORS AS REQUIRED TO PERMIT PASSAGE OF CONDUITS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A MARKED-UP PLAN WITH LOCATION PENETRATIONS FOR REVIEW AND APPROVAL OF THE STRUCTURAL ENGINEER BEFORE ROUGH-IN BEGINS.
- 2 RECEPTACLES FOR ALL EQUIPMENT SHALL BE COMPLETE WITH PLUGS FOR THIS EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL VERIFY NEMA CONFIGURATIONS OF PLUGS AND RECEPTACLES FOR EQUIPMENT IN THE SPACE.
- 3 DURING THE BIDDING PROCESS, THE ELECTRICAL CONTRACTOR SHALL REVIEW DRAWINGS AND SPECIFICATIONS OF ALL OTHER TRADES (ARCHITECTURAL, SITE/LANDSCAPING, HVAC, PLUMBING AND SPECIALTY TRADES). ALL ITEMS REQUIRING POWER INDICATED ON THESE DRAWINGS BUT NOT INDICATED ON THE ELECTRICAL DRAWINGS SHALL BE CONSIDERED A PART OF THE ELECTRICAL CONTRACTOR'S WORK. THIS WORK SHALL BE INSTALLED AS PER NEC REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.
- 4 THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MAKE ALL FEEDER RUNS CONTINUOUS (NO CABLE BREAKS). IF SPLICING CABLES IN BOXES BECOMES NECESSARY, USE 0.2 G. TYPE "XW" CABLE TAPS, OR APPROVED EQUAL, AND TAPE EACH TAP IN APPROVED MANNER.
- 5 THE MECHANICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCHES, VFDs, OR COMBINATION STARTERS FOR ALL OF THEIR UNITS. THE ELECTRICAL CONTRACTOR SHALL RECEIVE THESE ITEMS FROM THE MECHANICAL CONTRACTOR FOR INSTALLATION BY THE ELECTRICAL CONTRACTOR.
- 6 THE ELECTRICAL CONTRACTOR SHALL COORDINATE CONDUIT PENETRATIONS FOR ROOFTOP EQUIPMENT WITH MECHANICAL AND ROOFING CONTRACTORS. IF PROVISIONS ARE NOT IN PLACE FOR THESE PENETRATIONS THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING OWN PENETRATIONS AND CONTRACTING THE ROOF CONTRACTOR FOR SEALING THE ROOF PENETRATIONS.
- 7 REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF ALL MECHANICAL EQUIPMENT.
- 8 PROVIDE CONDUIT AND WIRING AS REQUIRED TO MEET CIRCUITING SHOWN TO CONFORM TO NEC REQUIREMENTS.
- 9 PROVIDE EQUIPMENT GROUND CONDUCTOR IN ALL RACEWAYS. REFER TO PANELBOARD SCHEDULES.
- 10 REFER TO EQUIPMENT CONNECTION SCHEDULE FOR ELECTRICAL REQUIREMENTS AND CIRCUIT DESIGNATIONS.
- 11 ROUTE CONDUIT HIGH AGAINST STRUCTURE AND OFFSET UP BETWEEN JOISTS WHERE NECESSARY TO AVOID DUCT WORK AND HVAC SYSTEM.
- 12 VERIFY AND COORDINATE EXACT ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT WITH MANUFACTURER'S RECOMMENDATIONS PRIOR TO INSTALLATION OF EQUIPMENT.

POWER PLAN KEYNOTES

- 1 PROVIDE A SURFACE MOUNTED STEEL RACEWAY MOUNTED AT 3FT A.F.F. PROVIDE ALL PARTS AND PIECES FOR A COMPLETE INSTALLATION. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN. PROVIDE ONE HORIZONTALLY MOUNTED RECEPTACLE PER EVERY 9FT BIN (NO MORE THAN 5 RECEPTACLES PER CIRCUIT). CONTRACTOR TO PROVIDE THE HANDLE CONNECTING THE THREE CIRCUITS INDICATED FOR THE THREE RACEWAYS.
- 2 EXISTING POWER INSTALLATION ASSOCIATED WITH INDICATED ELECTRICAL EQUIPMENT SHALL REMAIN IN PLACE.
- 3 PROVIDE A STANDALONE UNISTRUT FOR MOUNTING OF DISCONNECT SWITCH. DISCONNECTS SHALL BE NEMA 3R AND LOCKABLE. ENSURE PROPER CLEARANCE AND ACCESS PER NEC IS PROVIDED.
- 4 FIELD COORDINATE AND LOCATE MOUNTING LOCATIONS FOR THE HOT WATER PUMPS DISCONNECTS ON THE WALL. ENSURE PROPER CLEARANCE AND ACCESS PER NEC IS PROVIDED.
- 5 EXISTING CORRIDOR RECEPTACLES TO REMAIN. EXISTING RECEPTACLES LOCATED ON EXISTING TO BE DEMOLISHED WALLS SHALL BE REMOVED AND RELOCATED TO NEW WALLS. CONTRACTOR TO ENSURE THAT CORRIDOR RECEPTACLE QUANTITY OF NEW WORK MATCHES CORRIDOR RECEPTACLE QUANTITY OF EXISTING CONDITIONS.
- 6 EXISTING BATTERY AND DATA RACKS SHALL BE REMOUNTED ON NEW RAISED FLOOR IN THE SAME LOCATION AS EXISTING INSTALLATION. CONTRACTOR TO PROVIDE APPROPRIATE STRUCTURAL SUPPORT UNDER BATTERY AND DATA RACKS IN COORDINATION WITH THE RAISED FLOOR TO ENSURE APPROPRIATE STRUCTURAL INTEGRITY OF ALL SYSTEMS. NEW FLOOR SHALL BE GROUTED AND BONDED TO EXISTING RAISED FLOOR. THE NEW RAISED FLOOR UNDER THE RELOCATED EQUIPMENT SHALL BE RATED TO CARRY BATTERY RACK AND DATA RACK SYSTEMS WEIGHT. COORDINATE FOOTPRINT OF NEW FLOORING SYSTEM WITH BATTERY RACK AND DATA RACK PRIOR TO INSTALLATION. CONTRACTOR SHALL DISCONNECT AND RECONNECT ALL WIRING ASSOCIATED WITH THE BATTERY AND DATA RACKS. PROVIDE NEW WIRING, CONDUIT, COUPLINGS AND CONNECTIONS AS REQUIRED FOR A COMPLETE AND OPERABLE INSTALLATION.
- 7 ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE POWER TO VAV TRANSFORMERS AS NECESSARY. DETERMINE EXACT LOCATION OF TRANSFORMERS IN FIELD.
- 8 PROVIDE A 20A/120V CIRCUIT ABOVE CEILING FOR POWER TO DOOR HARDWARE ACCESS CONTROL PANEL. COORDINATE EXACT LOCATION WITH THE RESPECTIVE CONTRACTOR.



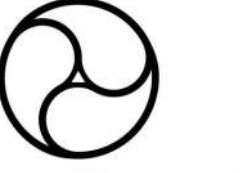
1 ELECTRICAL POWER PLAN - BASEMENT EAST
1/8" = 1'-0"




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#	Revisions	Date

Consultant

Architect/Engineer of Record

AE Works 209 SANDUSKY STREET PITTSBURGH, PA 15212 412-287-7333

Stamp


OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
VA U.S. Department of Veterans Affairs

Drawing Title ELECTRICAL POWER PLAN - BASEMENT EAST
Approved:

Phase BID DOCUMENTS
Sprinkler Status FULLY SPRINKLERED

Project Title RENOVATE BASEMENT, BUILDING 1
Location 2121 LAKE AVE, FORT WAYNE, IN 46805
Issue Date 07/15/2020
Checked BK
Drawn TJR

Project Number 610A4-19-104
Building Number 01
Drawing Number E202E

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EXISTING PANEL LP-BD												
RATINGS: 208Y/120 BUS RATING: 225 AMPS A.I.C. RATING: EXISTING				MAINS TYPE: MCB MCB RATING: 225.0 A				LOCATION: CORRIDOR C04 FED FROM: MOUNTING: RECESSED				
CKT NO	CIRCUIT DESCRIPTION	BREAKER	LOAD (KVA)						BREAKER	CIRCUIT DESCRIPTION	CKT NO	
			P	TRIP	A	B	C	TRIP				P
1	SPACE	--	--	0.00	0.00				--	--	SPACE	2
3	SPACE	--	--		0.00	0.00			--	--	SPACE	4
5	SPACE	--	--				0.00	0.00	--	--	SPACE	6
7	RCPT - RMS B100A, B100B, B104	1	20.0 A	0.72	0.00				20.0 A	1	SPARE	8
9	RCPT - B113, B114, C05 FOUNTAIN	1	20.0 A			0.54	1.00		20.0 A	1	EXISTING LTG - BUG LIGHT	10
11	***RCPT RMS B115, B115A	1	20.0 A					0.72 0.42	20.0 A	1	LTG - RMS B113-B116, C04-C06	12
12	EXISTING LTG - 1-G 1-H	1	20.0 A	1.00	1.00				20.0 A	1	EXISTING LTG - BIOMED FILE RM	14
15	EXISTING RCPT - ROOM 39	1	20.0 A			1.00	1.00		20.0 A	1	EXISTING RCPT - FIRE PUMP ROOM	16
17	RCPT - RM B111 PHARMACY CACHE	1	20.0 A					0.90 1.78	20.0 A	3	EQPT - MECH ROOM B102B AHU B3	18
19	RCPT - RM B111 PHARMACY CACHE	1	20.0 A	0.90	1.78				20.0 A	3	EQPT - MECH ROOM B102B AHU B3	20
21	EXISTING RCPT - IV RM EAST WALL	1	20.0 A			1.00	1.78		20.0 A	3	EQPT - MECH ROOM B102B AHU B3	22
23	RCPT - RM B116 COPIER	1	20.0 A					1.58 0.44	20.0 A	3	EQPT - MECH RMS B102B AHU B4	24
25	RCPT - RM B116	1	20.0 A	0.72	0.44				20.0 A	3	EQPT - MECH RMS B102B AHU B4	26
27	RCPT - RM B116	1	20.0 A			0.72	0.44		20.0 A	3	EQPT - MECH B102B CP-2	28
29	RCPT - RM B116	1	20.0 A				0.90 0.86		20.0 A	1	EQPT - MECH B102B CP-2	30
31	SPARE	1	20.0 A	0.00	1.00				20.0 A	2	EXISTING HEATER - PHARMACY CACHE	32
33	SPARE	1	20.0 A			0.00	1.00		20.0 A	2	EXISTING HEATER - PHARMACY CACHE	34
35	SPARE	1	20.0 A					0.00 1.00	20.0 A	2	EXISTING HEATER - PHARMACY CACHE	36
37	SPACE	--	--	0.00	1.00				20.0 A	2	EXISTING HEATER - PHARMACY CACHE	38
39	SPACE	--	--						20.0 A	2	EXISTING HEATER - PHARMACY CACHE	40
41	SPACE	--	--					0.00 1.00	20.0 A	2	EXISTING HEATER - PHARMACY CACHE	42
NOTES:			8.3 9.3 8.4 69.5 78.3 79.6						:CONNECTED LOAD/PHASE (KVA) :CONNECTED LOAD/PHASE (A) 27.0 :TOTAL CONNECTED LOAD (KVA) 74.8 :TOTAL CONNECTED LOAD (A) 101.16% :TOTAL DEMAND FACTOR 27.3 :TOTAL DEMAND LOAD (KVA) 75.7 :TOTAL DEMAND LOAD (A)			
*** PROVIDE CIRCUIT WITH ARC FAULT CIRCUIT BREAKER												

EXISTING PANEL LPL													
RATINGS: 208Y/120 BUS RATING: 225 AMPS A.I.C. RATING: EXISTING				MAINS TYPE: MLO				LOCATION: CORRIDOR C06 FED FROM: MOUNTING: RECESSED					
CKT NO	CIRCUIT DESCRIPTION	BREAKER	LOAD (KVA)						BREAKER	CIRCUIT DESCRIPTION	CKT NO		
			P	TRIP	A	B	C	P					
1	SPARE	1	20.0 A	0.00	0.00				20.0 A	1	SPARE	2	
3	EXISTING PUMP - STAIRWELL	1	20.0 A			1.00	1.00		20.0 A	1	EXISTING RCPT	4	
5	LTG - RMS B118, B119, B120, B120A-B120G	1	20.0 A					0.42	1.00	20.0 A	1	EXISTING EXHAUST FAN	6
7	EXISTING - RCPT	1	20.0 A	1.00	1.00				20.0 A	1	EXISTING EXHAUST FAN	8	
9	EXISTING LTG - PHARMACY	1	20.0 A			1.00	1.00		20.0 A	1	RCPT	10	
11	SPARE	1	20.0 A					0.00	1.08	20.0 A	1	RCPT - RMS B119, B120, B120C, B120F, B120G	12
13	EXISTING LTG - PHARMACY	1	20.0 A	1.00	0.72				20.0 A	1	RCPT - RM B120A	14	
15	EXISTING LTG - SURGICAL PACK RM	1	20.0 A			1.00	1.58		20.0 A	1	RCPT - RM B120A - PRINTER	16	
17	EXISTING LTG - OFFICE	1	20.0 A			1.00		0.72	20.0 A	1	RCPT - RMS B118, B120A	18	
19	EXISTING	1	20.0 A	1.00	1.00				20.0 A	1	EXISTING RCPT	20	
21	EXISTING LTG - PHARMACY	1	20.0 A			0.00	1.00		20.0 A	1	EXISTING IV HOOD - PHARMACY	22	
23	SPARE	1	20.0 A					0.00	0.00	20.0 A	1	SPARE	24
25	SPARE	1	20.0 A			1.00	1.00						26
27	EXISTING FAN - PHARMACY	3	20.0 A				1.00	1.00	20.0 A	3	EXISTING	28	
29								1.00	1.00				30
31						0.00	1.00						32
33	SPARE	3	20.0 A				0.00	1.00	20.0 A	3	EXISTING	34	
35													36
37	EXISTING - RCPT	1	20.0 A	1.00	1.00								38
39	SPARE	1	20.0 A			0.00	1.00		20.0 A	3	EXISTING	40	
41	SPACE	--	--					0.00	1.00				42
NOTES:				10.7 11.4 8.1 92.1 98.7 67.1				30.1 83.6 100.32% 30.2 83.9				:CONNECTED LOAD/PHASE (KVA) :CONNECTED LOAD/PHASE (A) :TOTAL CONNECTED LOAD (KVA) :TOTAL DEMAND FACTOR :TOTAL DEMAND LOAD (KVA) :TOTAL DEMAND LOAD (A)	

EXISTING PANEL LPE1																	
RATINGS: 208Y/120 BUS RATING: 100 AMPS A.I.C. RATING: EXISTING						MAINS TYPE: MLO						LOCATION: ENGINEERING (NIC) B105 FED FROM: MOUNTING: SURFACE					
CKT NO	CIRCUIT DESCRIPTION	BREAKER	P	TRIP	A	LOAD (KVA)	B	C	BREAKER	P	CIRCUIT DESCRIPTION	CKT NO					
1	LTG B102B, 111, B113-116, C46, B119-120F	1	20.0 A	0.97	1.00				20.0 A	1	EXISTING LTG	2					
3	EXISTING RCPT - REAR RM	1	20.0 A			1.00	1.00		20.0 A	1	EXISTING	4					
5	LTG C07, B300-301, B306-310, B312, B315-316D	1	20.0 A					0.85	1.00	20.0 A	1	EXISTING LTG	6				
7	EXISTING LTG - STAIR #1	1	20.0 A	1.00	1.00				20.0 A	1	EXISTING LTG	8					
9	EXISTING LTG	1	20.0 A			1.00	1.00		20.0 A	1	EXISTING LTG	10					
11	EXISTING LTG	1	20.0 A				1.00	1.00	20.0 A	1	EXISTING LTG	12					
13	EXISTING LTG	1	20.0 A	1.00	1.00				20.0 A	1	EXISTING LTG	14					
15	EXISTING LTG	1	20.0 A			1.00	0.00		20.0 A	1	SPARE	16					
17	EXISTING RCPT	1	20.0 A					1.00	0.78	20.0 A	1	LTG C01-C03, B101, 103, 100-100E, 102E, 104	18				
19	SPARE	1	20.0 A	0.00	1.00				20.0 A	1	EXISTING	20					
21	EXISTING	1	20.0 A			1.00	1.00		20.0 A	1	EXISTING LTG PANEL	22					
23	EXISTING	1	20.0 A					1.00	1.00	20.0 A	1	EXISTING LTG PANEL	24				
25	EXISTING	1	20.0 A	1.00	0.00				20.0 A	1	SPARE	26					
27	SPARE	1	20.0 A			0.00	0.00		20.0 A	1	SPARE	28					
29	SPARE	1	20.0 A					0.00	0.00	20.0 A	1	SPARE	30				
31	SPARE	1	20.0 A	0.00	0.00				20.0 A	1	SPARE	32					
33	SPARE	1	20.0 A			0.00	0.00		20.0 A	1	SPARE	34					
35	SPARE	1	20.0 A					0.00	0.00	20.0 A	1	SPARE	36				
37	SPARE	1	20.0 A	0.00	0.00				20.0 A	1	SPARE	38					
39	SPARE	1	20.0 A			0.00	0.00		20.0 A	1	SPARE	40					
41	SPARE	1	20.0 A					0.00	0.00	20.0 A	1	SPARE	42				
NOTES:						7.9	7.0	7.5	:CONNECTED LOAD/PHASE (KVA)								
						66.4	58.3	63.5	:CONNECTED LOAD/PHASE (A)								
						22.4			:TOTAL CONNECTED LOAD (KVA)								
						62.2			:TOTAL CONNECTED LOAD (A)								
						102.72%			:TOTAL DEMAND FACTOR								
						23.0			:TOTAL DEMAND LOAD (KVA)								
						63.9			:TOTAL DEMAND LOAD (A)								

EXISTING PANEL LP-BA													
RATINGS: 208Y/120 BUS RATING: 225 AMPS A.I.C. RATING: EXISTING				MAINS TYPE: MCB MCB RATING: 225.0 A				LOCATION: CORRIDOR-2 C07-2 FED FROM: MOUNTING: RECESSED					
CKT NO	CIRCUIT DESCRIPTION	BREAKER	LOAD (KVA)			BREAKER	CIRCUIT DESCRIPTION			CKT NO			
			P	TRIP			P	TRIP					
1	EQPT - CU-B8 OUTSIDE	2	30.0 A	1.99	0.54	1.99	1.01	20.0 A	1	RCPT - CORRIDOR C07 & MECH RM B308	2		
3	EQPT - CU-B2 OUTSIDE	2	30.0 A					25.0 A	2	EQPT - CU-B2 OUTSIDE	4		
5	JBOX - MECH ROOM B308	1	20.0 A				0.50	1.01	20.0 A	1	EXISTING - WAREHOUSE	6	
7	EXISTING - ROOM B316	1	20.0 A	1.00	1.00				20.0 A	1	EXISTING LTG - ROOM 50	8	
9	RCPT - BIOMED B316 COPIER	1	20.0 A			1.58	1.00		20.0 A	1	EXISTING LTG - ROOM 50	10	
11	SPECIAL RCPT - WORKSHOP B316C	2	20.0 A					1.04	1.00	20.0 A	1	EXISTING LTG - ROOM 50	12
13	EXISTING WAREHOUSE FAN	2	20.0 A	1.04	0.61				20.0 A	1	LTG - B310, B312, B316, B316A-B316D	14	
15	EXISTING WAREHOUSE FAN	2	20.0 A			1.00	0.72		20.0 A	1	RCPT - RMS B310, B312, B316D	16	
17	EXISTING LTG - ROOM 52	1	20.0 A					1.00	0.72	20.0 A	1	RCPT - WORKSHOP B316C	18
19	RCPT - BIOMED B316	1	20.0 A		0.72	0.72			20.0 A	1	RCPT - WORKSHOP B316C	20	
21	RCPT - RMS B316, B316, B316A	1	20.0 A			0.90	0.72		20.0 A	1	RCPT - WORKSHOP B316C	22	
23	EXISTING LTG - WAREHOUSE	1	20.0 A					1.00	1.00	20.0 A	1	EXISTING RCPT	24
25	EXISTING LTG - WAREHOUSE	1	20.0 A	1.00	1.00				20.0 A	1	EXISTING - WAREHOUSE	26	
27	EXISTING LTG - WAREHOUSE	1	20.0 A			1.00	0.72		20.0 A	1	RCPT - WORKSHOP 316C	28	
29	RCPT - OFFICE B316B	1	20.0 A				0.72	0.72	20.0 A	1	RCPT - WORKSHOP 316C	30	
31	RCPT	1	20.0 A	1.00	0.72				20.0 A	1	RCPT - WORKSHOP 316C	32	
33	EXISTING ALARM SYSTEM	1	20.0 A			1.00	1.00		20.0 A	1	EXISTING RCPT - ROOM 53	34	
35	SPECIAL RCPT - WORKSHOP B316C	2	20.0 A		1.04	1.00		1.04	1.00	20.0 A	1	EXISTING RCPT - ROOM 53	36
37	EXISTING RCPT - ROOM 50	1	20.0 A			1.00	1.00		20.0 A	1	EXISTING RCPT - ROOM 53	38	
41	EXISTING RCPT - ROOM 50	1	20.0 A			1.00	1.00		20.0 A	1	EXISTING RCPT - ROOM 50	40	
NOTES:			13.1 14.3 12.4			103.7			:CONNECTED LOAD/PHASE (KVA)			42	
			109.7 120.1			103.7			:CONNECTED LOAD/PHASE (A)				
						39.8			:TOTAL CONNECTED LOAD (KVA)				
									110.5			:TOTAL CONNECTED LOAD (A)	
									100.38%			:TOTAL DEMAND FACTOR	
									40.0			:TOTAL DEMAND LOAD (KVA)	
									110.9			:TOTAL DEMAND LOAD (A)	
- NEW SINGLE POLE BREAKERS TO BE INSTALLED IN PLACE OF SPARE MULTI-POLE BREAKERS													

EXISTING PANEL LP-BB												
RATINGS: 208Y/120 BUS RATING: 225 AMPS A.I.C. RATING: EXISTING				MAINS TYPE: MCB MCB RATING: 225.0 A				LOCATION: CORRIDOR-2 C07-2 FED FROM: MOUNTING: RECESSED				
CKT NO	CIRCUIT DESCRIPTION	BREAKER	P	TRIP	LOAD (KVA)			BREAKER	P	CIRCUIT DESCRIPTION	CKT NO	
					A	B	C					
1					0.53	0.44					2	
3	EQPT - MECH ROOM B308 AHU-B1	3	20.0 A			0.53	0.44		20.0 A	3	EQPT - MECH ROOM B308 AHU-B5	
5							0.53	0.44			4	
7	RCPT BATTERY ROOM B307	1	20.0 A	1.92	0.00				20.0 A	1	SPARE	
9	RCPT - BATTERY ROOM B307	1	20.0 A			1.92	1.00		20.0 A	1	EXISTING FAN - STAIRWELL NORTHEAST	
11	RCPT - BATTERY ROOM B307	1	20.0 A				1.92	0.72	20.0 A	1	RCPT - OT OFFICE RM B309	
13				2.27	0.90				20.0 A	1	RCPT - OT OFFICE B309	
15	EQPT - CU-B1 OUTSIDE	3	40.0 A			2.27	0.72		20.0 A	1	RCPT - STORAGE B310, B312	
17								2.27	0.90	20.0 A	1	LTG - B300-B301, B306-B307, B309, C07
19	EXISTING RCPT - MORGUE	1	20.0 A	1.00	1.00				20.0 A	1	EXISTING LTG - ENGINEERING RM	
21	EXISTING RCPT - MORGUE	1	20.0 A			1.00	1.18		20.0 A	1	EXISTING RCPT - STOR / SOILED B006 EXHAUST FAN	
23	EXISTING LTG & RCPT - MORGUE & OUTSIDE	1	20.0 A					1.00	1.00	20.0 A	1	EXISTING STOR - ENGINEERING RM
25	SPARE	1	20.0 A	0.00	3.08							26
27	EXISTING LTG & RCPT	1	20.0 A			1.00	3.08		50.0 A	3	EQPT - CU-B3 OUTSIDE	
29	EQPT - MECH ROOM B308 HWP-1	2	20.0 A					1.14	3.08			30
31					1.14	0.90				20.0 A	1	RCPT - RM B307 & EXTERIOR NORTH WALL
33							1.14	1.00		20.0 A	1	EXISTING RCPT - CORRIDOR
35	EQPT - MECH ROOM B308 HWP-2	2	20.0 A						1.14	2.27		36
37					0.24	2.27						38
39	EQPT - MECH ROOM B308 AHU B3	3	20.0 A			0.24	2.27		40.0 A	3	EQPT - CU-B4 OUTSIDE	
41								0.24	0.86	20.0 A	1	EQPT - MECH ROOM B308 CP1
					15.4	17.4	17.2					42
					128.7	147.1	145.2					
NOTES:												
								50.0	-TOTAL CONNECTED LOAD (KVA)			
								138.7	-TOTAL CONNECTED LOAD (A)			
								100.86%	-TOTAL DEMAND FACTOR			
								53.4	-TOTAL DEMAND LOAD (KVA)			
								139.9	-TOTAL DEMAND LOAD (A)			

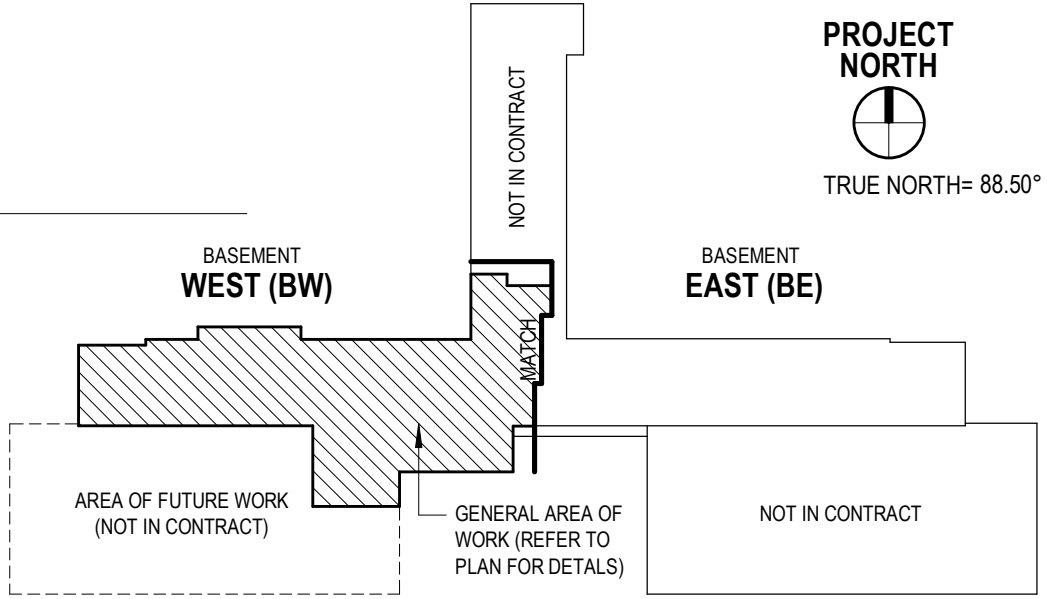
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 2. WIRELESS ACCESS POINTS (WAPs) SHALL BE REMOVED FROM EXISTING CEILING DURING CEILING DEMOLITION. CABLING FOR WAPs SHALL REMAIN IN PLACE. WAPs SHALL BE RECONNECTED IMMEDIATELY AFTER CEILING DEMOLITION AND PROPERLY SECURED AT ABOVE-CEILING HEIGHT DURING REMODELING. AS CEILING ARE BEING REPLACED, RE-INSTALL WAPs IN NEW CEILING TILES.
 3. LOCATION OF EXISTING SERVER ROOM. ALL BACKBONE CABLING AND EQUIPMENT NOT BEING DEMOLISHED WITHIN THE EXISTING SERVER ROOM SHALL BE PROTECTED FROM DAMAGE AND OUTAGES DURING THE DEMOLITION AND CONSTRUCTION PHASES.
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 6. ACCESS CONTROL CARD READER KEY PAD. MAINTAIN OPERATIONAL CAPABILITY DURING DEMOLITION RENOVATION PHASES.
 7. INTRUSION DETECTION KEYPAD. MAINTAIN OPERATIONAL CAPABILITY DURING DEMOLITION RENOVATION PHASES.

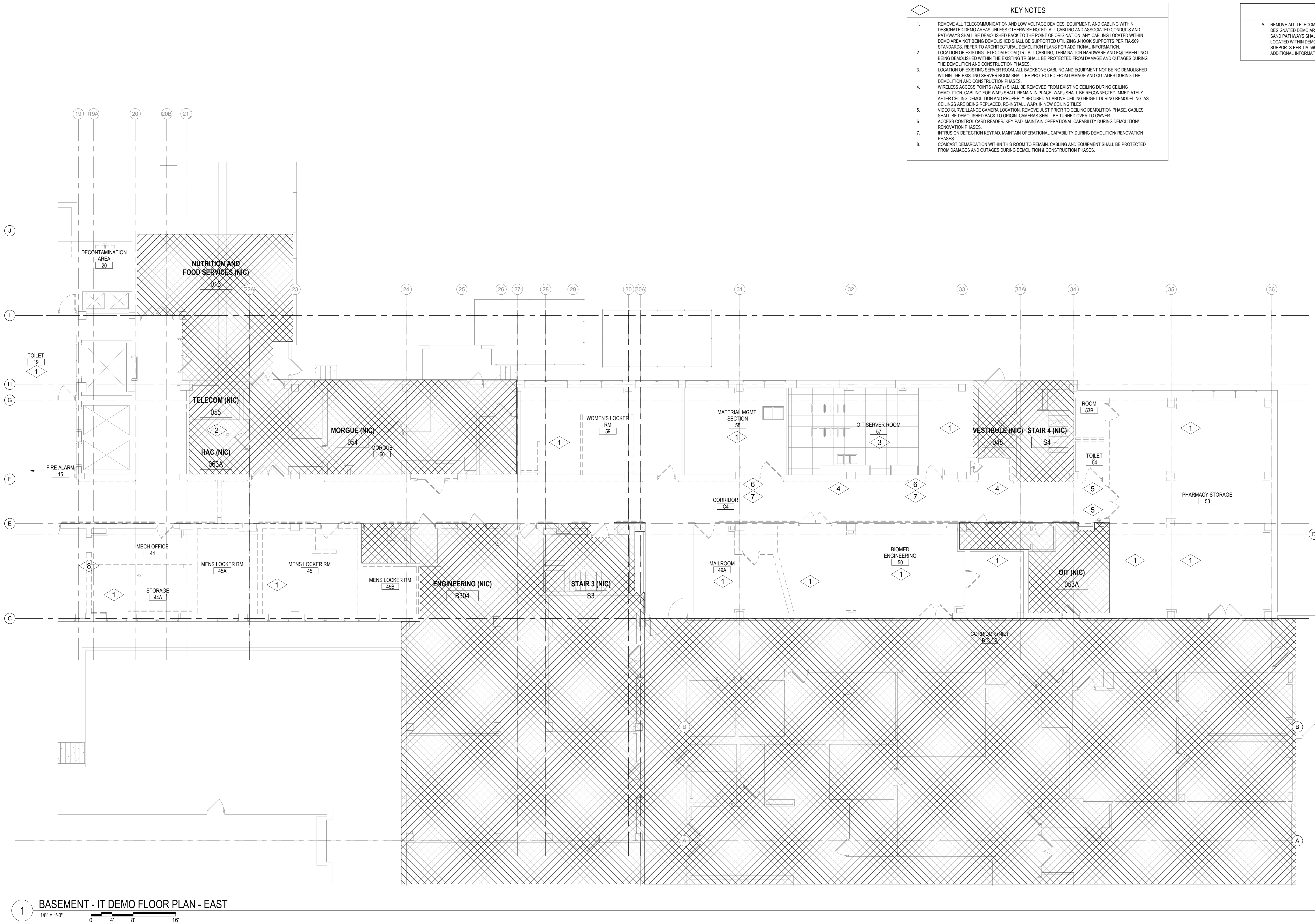
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1 BASEMENT - IT DEMO FLOOR PLAN - WEST
1/8" = 1'-0"



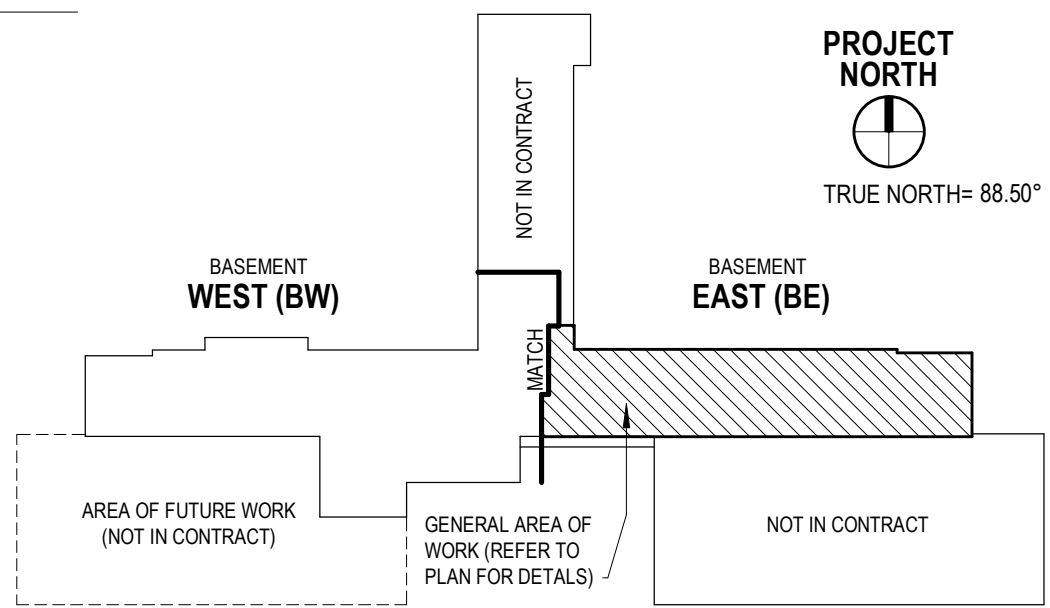
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 2. LOCATION OF EXISTING TELECOM ROOM (TR). ALL CABLING, TERMINATION HARDWARE AND EQUIPMENT NOT BEING DEMOLISHED WITHIN THE EXISTING TR SHALL BE PROTECTED FROM DAMAGE AND OUTAGES DURING THE DEMOLITION AND CONSTRUCTION PHASES.
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 8. COMCAST DEMARCATION WITHIN THIS ROOM TO REMAIN. CABLING AND EQUIPMENT SHALL BE PROTECTED FROM DAMAGES AND OUTAGES DURING DEMOLITION & CONSTRUCTION PHASES.

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1 BASEMENT - IT DEMO FLOOR PLAN - EAST
1/8" = 1'-0"



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KEY NOTES

- SEE SHEET ET100E FOR CONTINUATION.
- PROVIDE CABLE TRAY WHERE REQUIRED TO TIE INTO EXISTING CABLE TRAY FOR CONTINUOUS SUPPORT WITHIN MAIN CORRIDORS.

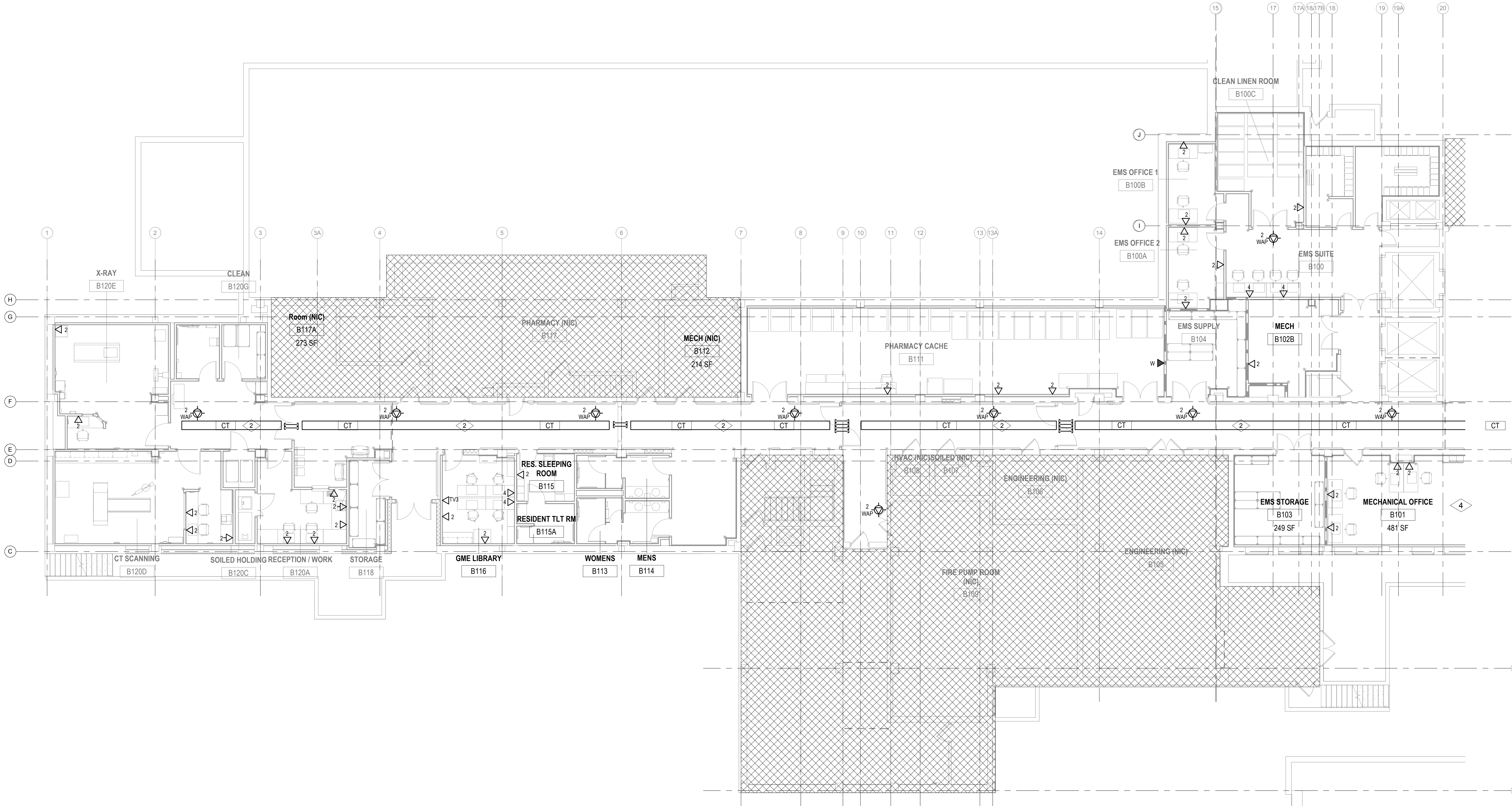
GENERAL NOTES

A. REFER TO SHEET ET100I FOR SYMBOLS APPEARING ON THIS SHEET AND ADDITIONAL GENERAL NOTES.

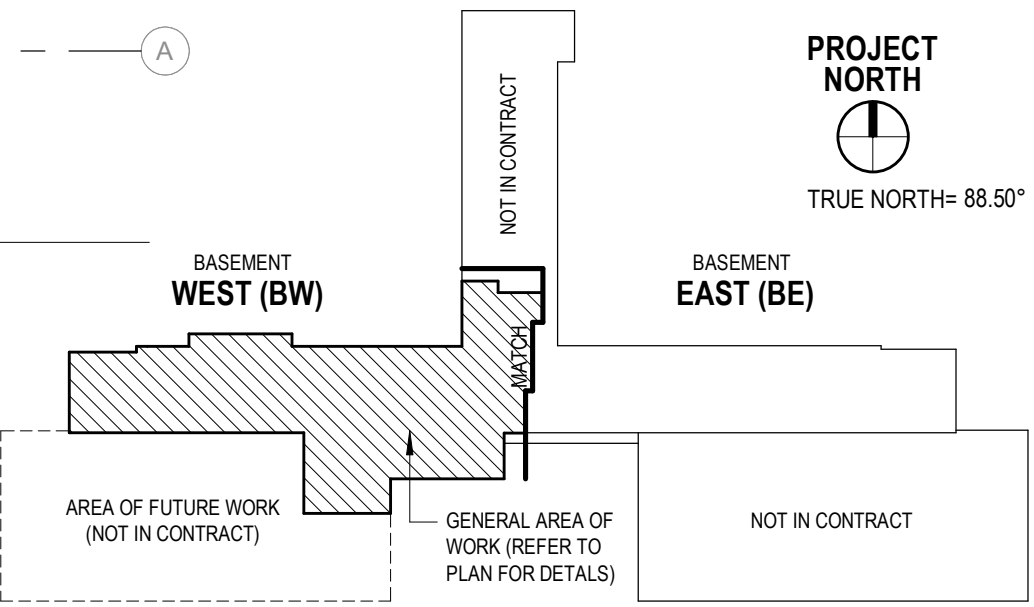
B. COMMUNICATION CONDUIT PATHWAY SHALL NOT CONTAIN ANY LENGTH GREAT THAN 100 FEET BETWEEN PULL POINTS. NO SECTION OF CONDUIT SHALL CONTAIN MORE THAN TWO 90-DEGREE BENDS. THE INSIDE RADIUS OF ALL CONDUIT BENDS SHALL BE AT LEAST 10 TIMES THE INTERNAL DIAMETER. BENDS IN CONDUIT SHALL NOT HAVE A DETRIMENTAL EFFECT ON THE CABLE SHEATH DURING INSTALLATION.

C. ALL DEVICES WITHIN ROOMS WITH HARD PAN CEILING SHALL BE PIPED TO ABOVE ACCESSIBLE CEILING SPACE IN THE NEAREST CORRIDOR.


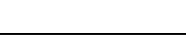

D. PROVIDE SLEEVES AS NEEDED. RATED WALL SHALL REQUIRE EZ-PATH SLEEVES. NON-RATED WALLS SHALL REQUIRE EMT SLEEVES.



1 BASEMENT - IT NEW FLOOR PLAN - WEST
1/8" = 1'-0"



7/14/2020 8:02:14 AM
E:\M\360\18025_F1_Wayne VAMC Basement Bldg\18025_WSP_PLEGT_Corona 2018.rvt

		Consultant <div><div>WSP USA Buildings Inc. One Penn Plaza, 2nd Floor New York, NY 10019 (212) 465-5000 www.wsp.com</div></div>	Architect/Engineer of Record <div><div>AE WORKS. AE Works 209 SANDUSKY STREET PITTSBURGH, PA 15212 412-287-7333 AEW Project No. 18025</div></div>	Stamp 	OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT <div><div>VA</div><div>U.S. Department of Veterans Affairs</div></div>	Drawing Title TELECOM FLOOR PLANS - BASEMENT WEST	Phase BID DOCUMENTS	Project Title RENOVATE BASEMENT, BUILDING 1	Project Number 610A4-19-104
# Revisions Date						Approved:	Sprinkler Status FULLY SPRINKLERED	Location 2121 LAKE AVE, FORT WAYNE, IN 46805	Building Number 01
								<div>Issue Date 07/15/2020</div> <div>Checked JMM</div> <div>Drawn FT</div>	Drawing Number ET100W

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7/14/2020 8:06:46 AM

BM 360/18025_F1_Wayne VAMC Basement Bldg 118025_WSP_PLEGT_Corona 2018.rvt

GENERAL NOTES

A.

REFER TO SHEET ET001 FOR SYMBOLS APPEARING ON THIS SHEET AND ADDITIONAL GENERAL NOTES.

B.

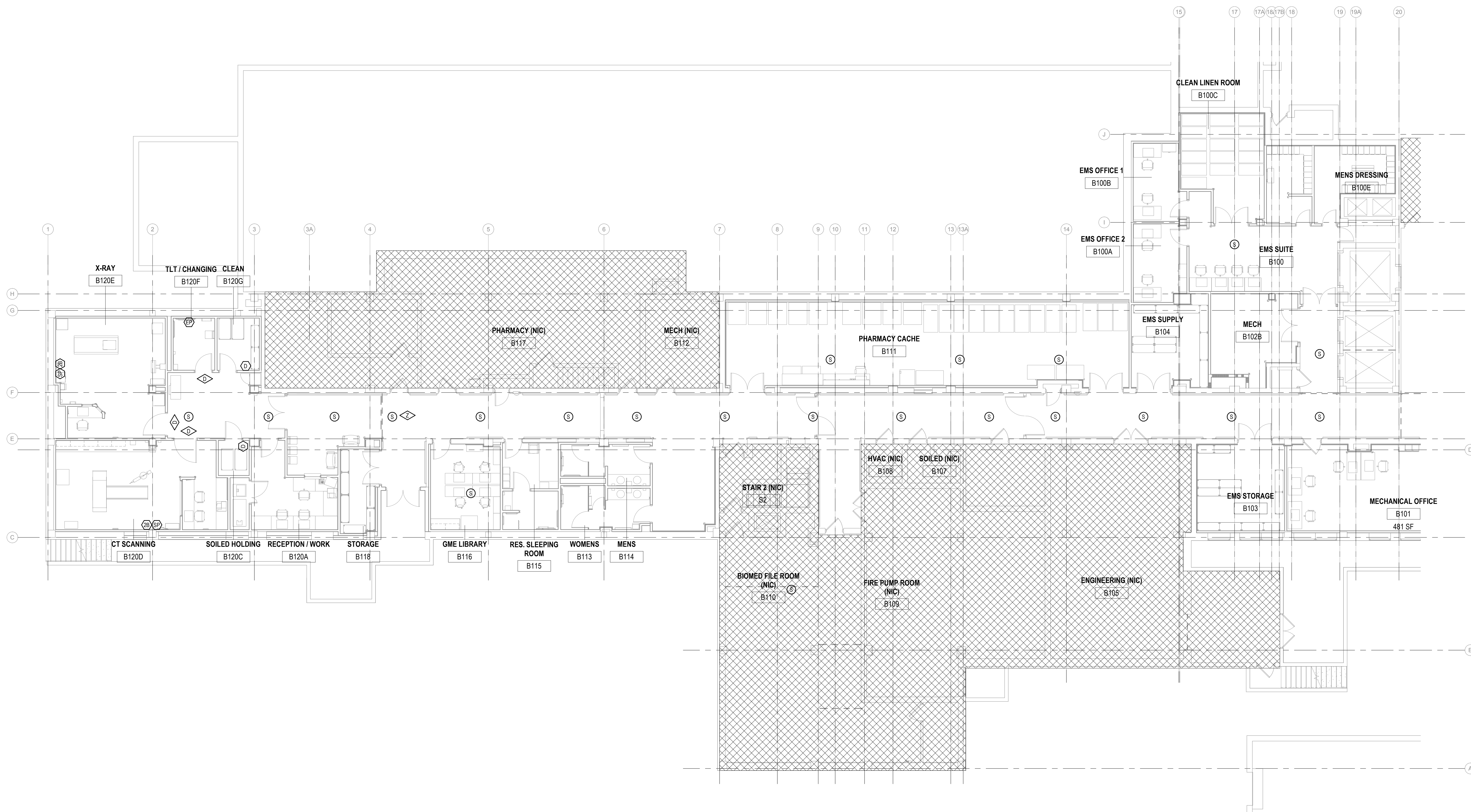
COMMUNICATION CONDUIT PATHWAY SHALL NOT CONTAIN ANY LENGTH GREAT THAN 100 FEET BETWEEN PULL POINTS. NO SECTION OF CONDUIT SHALL CONTAIN MORE THAN TWO 90-DEGREE BENDS. THE INSIDE RADIUS OF ALL CONDUIT BENDS SHALL BE AT LEAST 10 TIMES THE INTERNAL DIAMETER. BENDS IN CONDUIT SHALL NOT HAVE A DETRIMENTAL EFFECT ON THE CABLE SHEATH DURING INSTALLATION.

C.

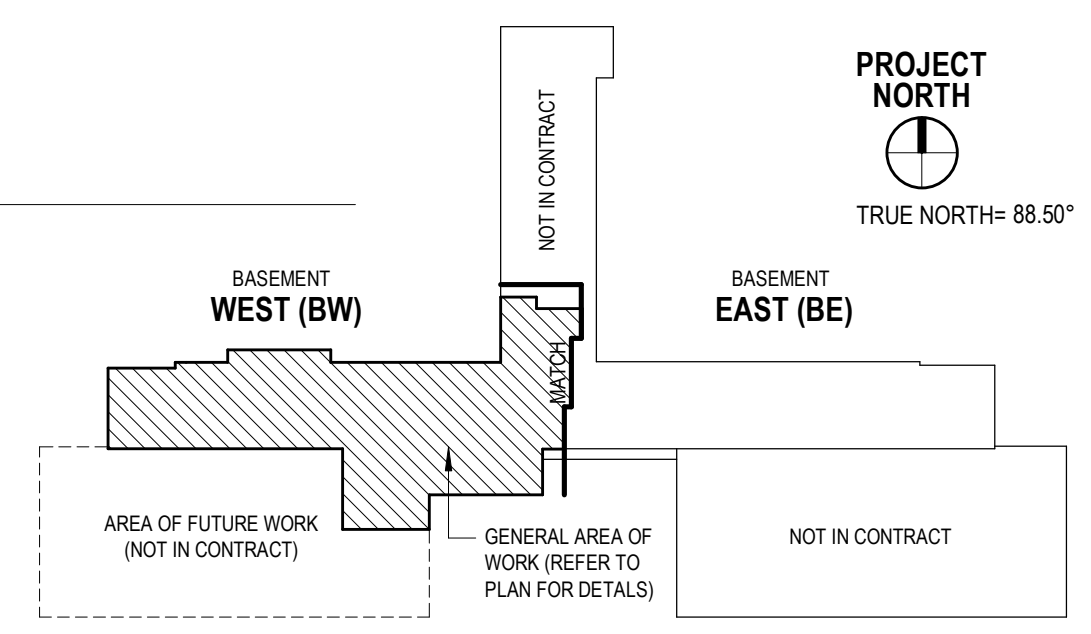
ALL DEVICES WITHIN ROOMS WITH HARD-PAN CEILINGS SHALL BE FIRED TO ABOVE ACCESSIBLE CEILING SPACE IN THE NEAREST CORRIDOR.

D.

PROVIDE SLEEVES AS NEEDED. RATED WALL SHALL REQUIRE EZ-PATH SLEEVES. NON-RATED WALLS SHALL REQUIRE EMT SLEEVES.



1 BASEMENT - LV NEW FLOOR PLAN - WEST
1/8" = 1'-0"
0 4' 8' 16'



		Consultant	Architect/Engineer of Record	Stamp	OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT VA U.S. Department of Veterans Affairs	Drawing Title TELECOM LV FLOOR PLANS - BASEMENT WEST Approved:	Phase BID DOCUMENTS Sprinkler Status FULLY SPRINKLERED	Project Title RENOVATE BASEMENT, BUILDING 1 Location 2121 LAKE AVE, FORT WAYNE, IN 46805 Issue Date 07/15/2020	Project Number 610A4-19-104 Building Number 01 Drawing Number ET110W
#	Revisions							Checked JMM	Drawn FT
		Date							

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GENERAL NOTES

A.

REFER TO SHEET ET1001 FOR SYMBOLS APPEARING ON THIS SHEET AND ADDITIONAL GENERAL NOTES.

B.

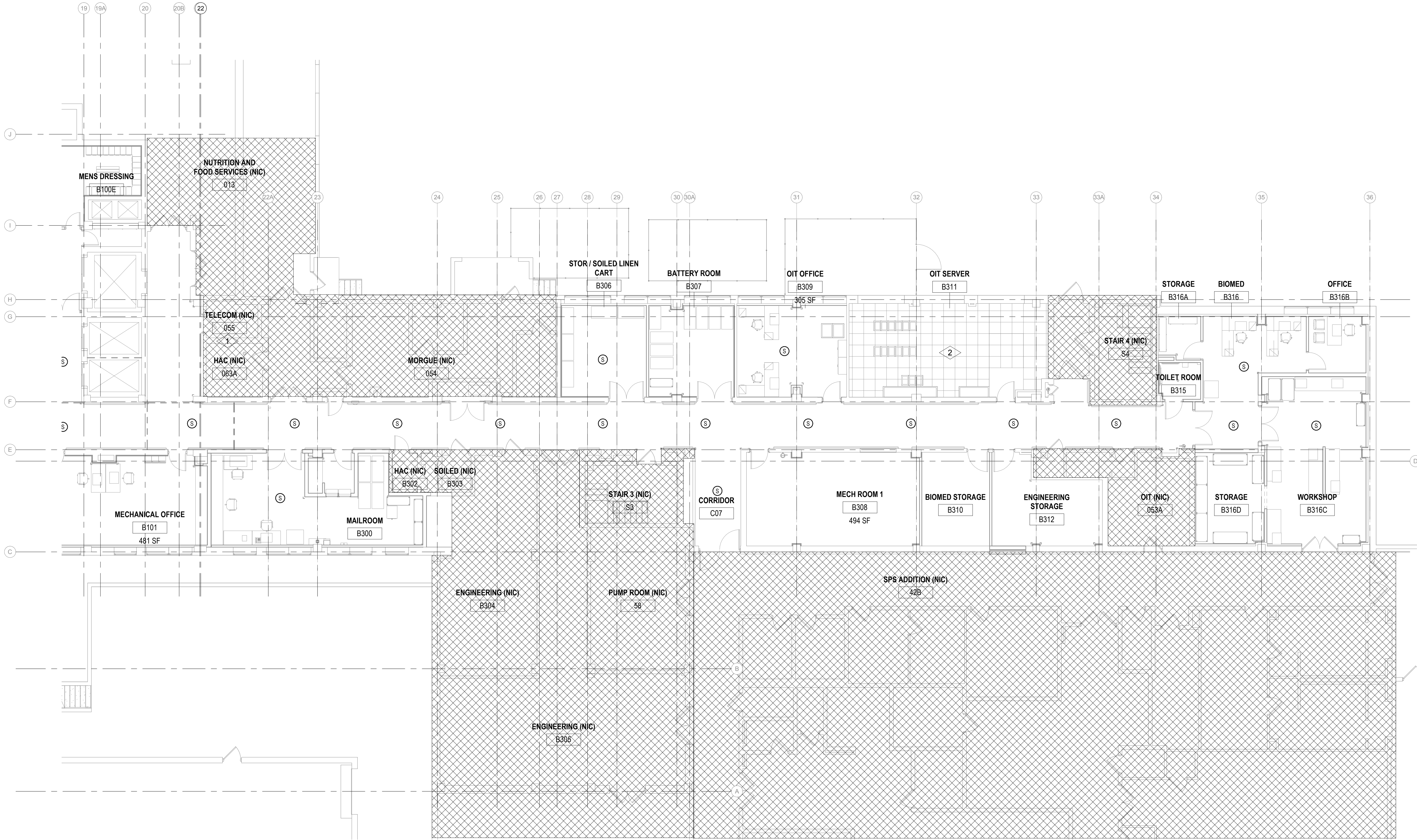
COMMUNICATION CONDUIT PATHWAY SHALL NOT CONTAIN ANY LENGTH GREAT THAN 100 FEET BETWEEN PULL POINTS. NO SECTION OF CONDUIT SHALL CONTAIN MORE THAN TWO 90 DEGREE BENDS. THE INSIDE RADIUS OF ALL CONDUIT BENDS SHALL BE AT LEAST 10 TIMES THE INTERNAL DIAMETER. BENDS IN CONDUIT SHALL NOT HAVE A DETRIMENTAL EFFECT ON THE CABLE SHEATH DURING INSTALLATION.

C.

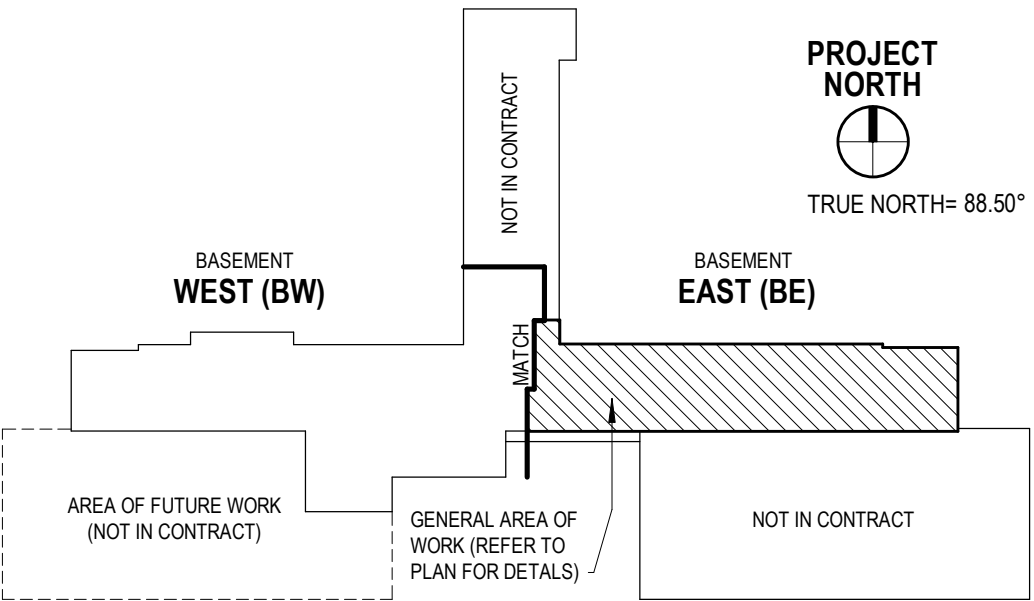
ALL DEVICES WITHIN ROOMS WITH HARD DRY CEILINGS SHALL BE PIPED TO ABOVE ACCESSIBLE CEILING SPACE IN THE NEAREST CORRIDOR.

D.

PROVIDE SLEEVES AS NEEDED. RATED WALL SHALL REQUIRE EZ-PATH SLEEVES. NON-RATED WALLS SHALL REQUIRE EMT SLEEVES.



1 BASEMENT - LV NEW FLOOR PLAN - EAST
1/8" = 1'-0"



BM 360718025_F1_Wayne VAMC Basement Bldg 1118025_WSP_PLEGT_Corona 2018.rvt
7/14/2020 8:06:42 AM

		Consultant	Architect/Engineer of Record	Stamp	OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT VA U.S. Department of Veterans Affairs	Drawing Title TELECOM LV FLOOR PLANS - BASEMENT EAST	Phase BID DOCUMENTS	Project Title RENOVATE BASEMENT, BUILDING 1	Project Number 610A4-19-104
#	Revisions								
		<div><div>wsp</div><div>WSP USA Buildings Inc. One Penn Plaza, 2nd Floor New York, NY 10019 (212) 465-0000 www.wsp.com</div></div>	<div><div>AE WORKS.</div><div>AE Works 209 SANDUSKY STREET PITTSBURGH, PA 15212 412-287-7333 AEW Project No. 18025</div></div>	<div><div>Richard J. M. M.</div><div>No. 00880597 STATE OF PENNSYLVANIA Professional Engineer</div></div>		Approved:	Sprinkler Status FULLY SPRINKLERED	Location 2121 LAKE AVE, FORT WAYNE, IN 46805	Drawing Number ET110E
								Issue Date 07/15/2020	Checked JMM
								Drawn FT	

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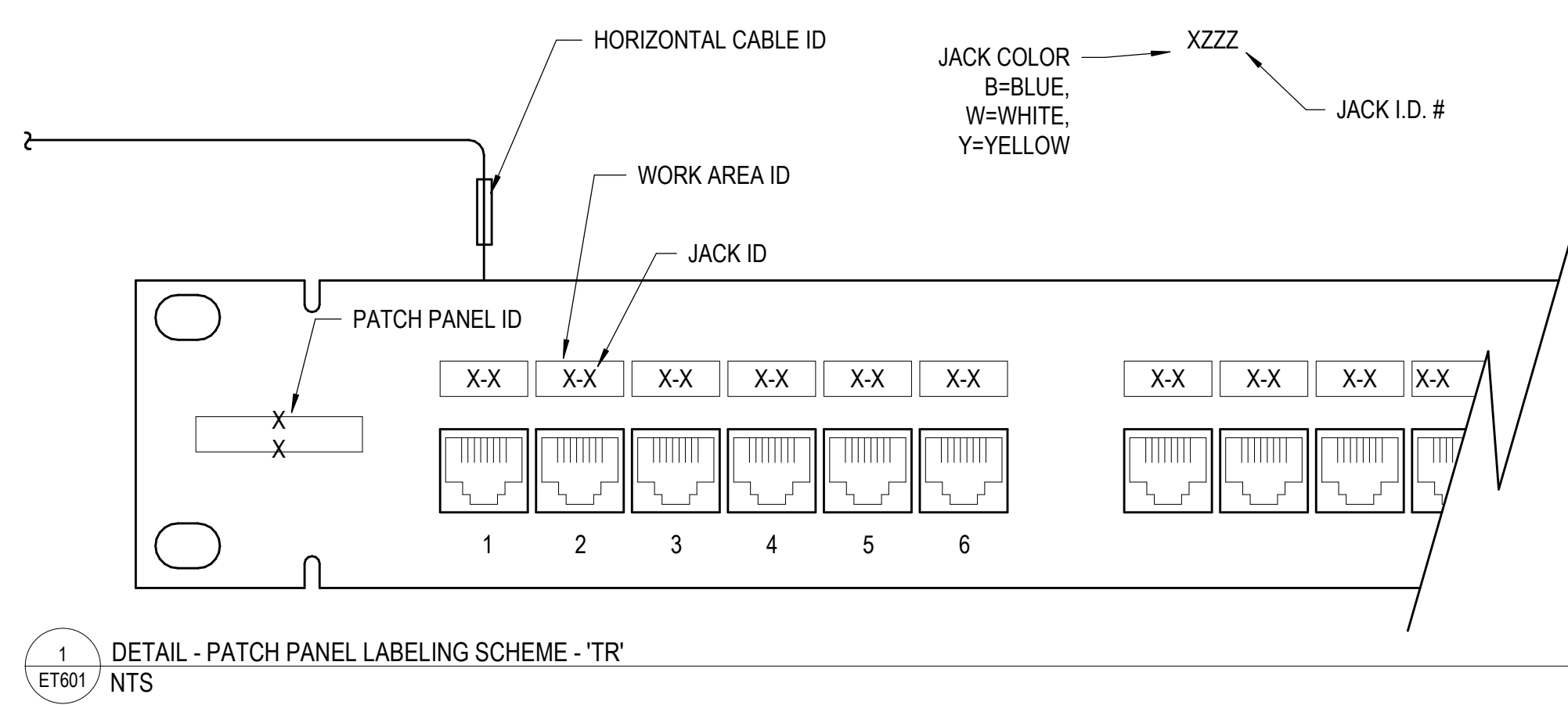
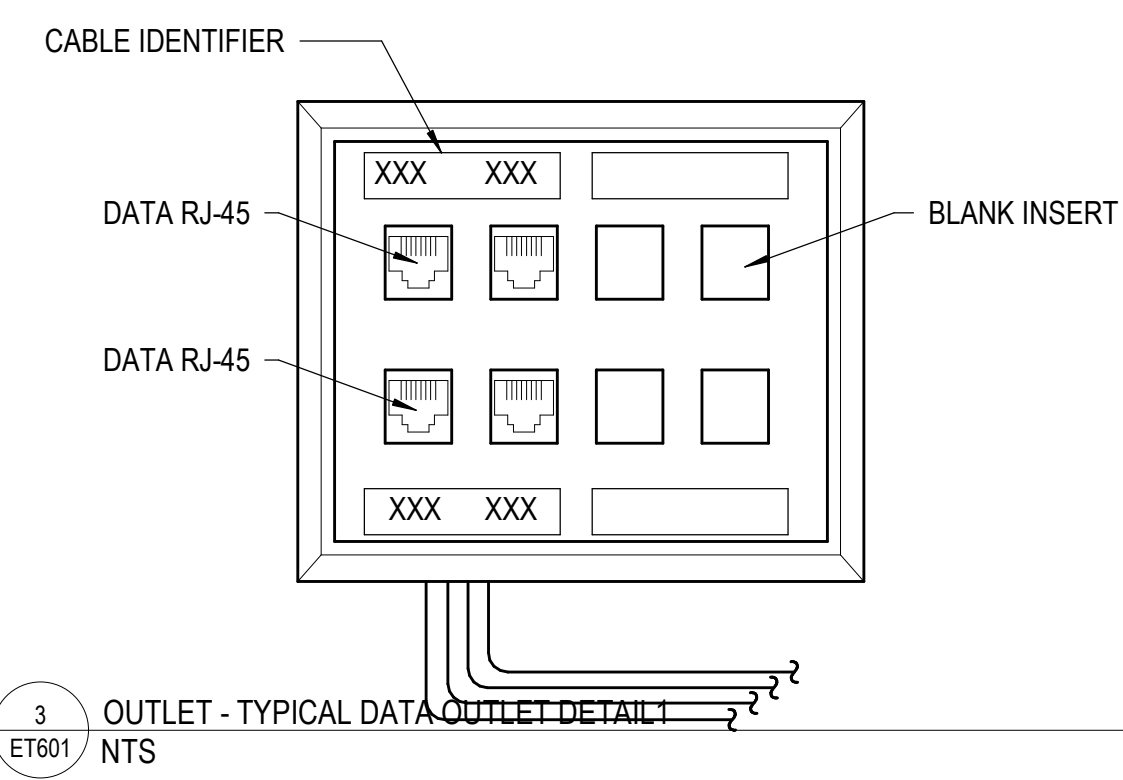
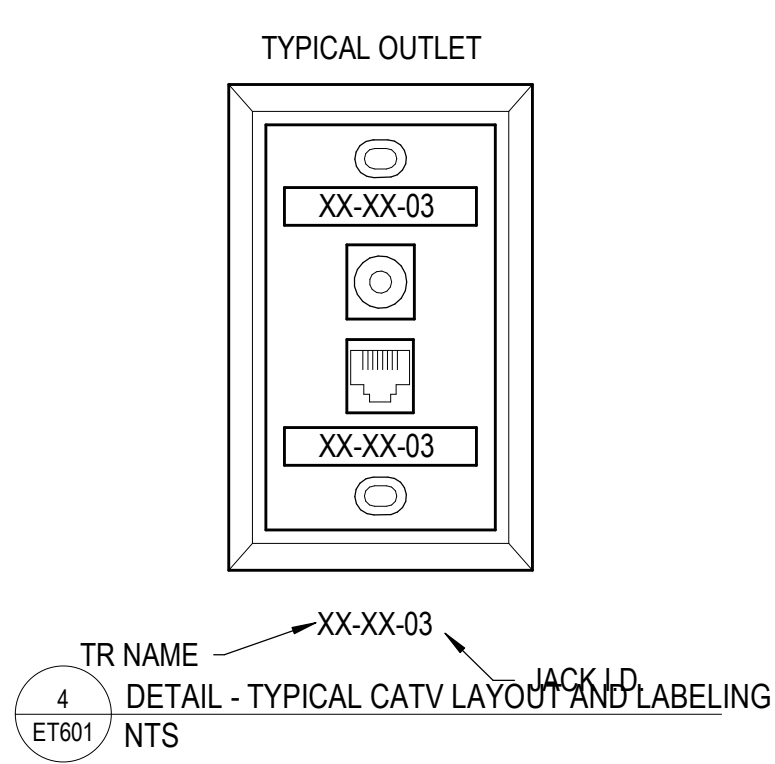
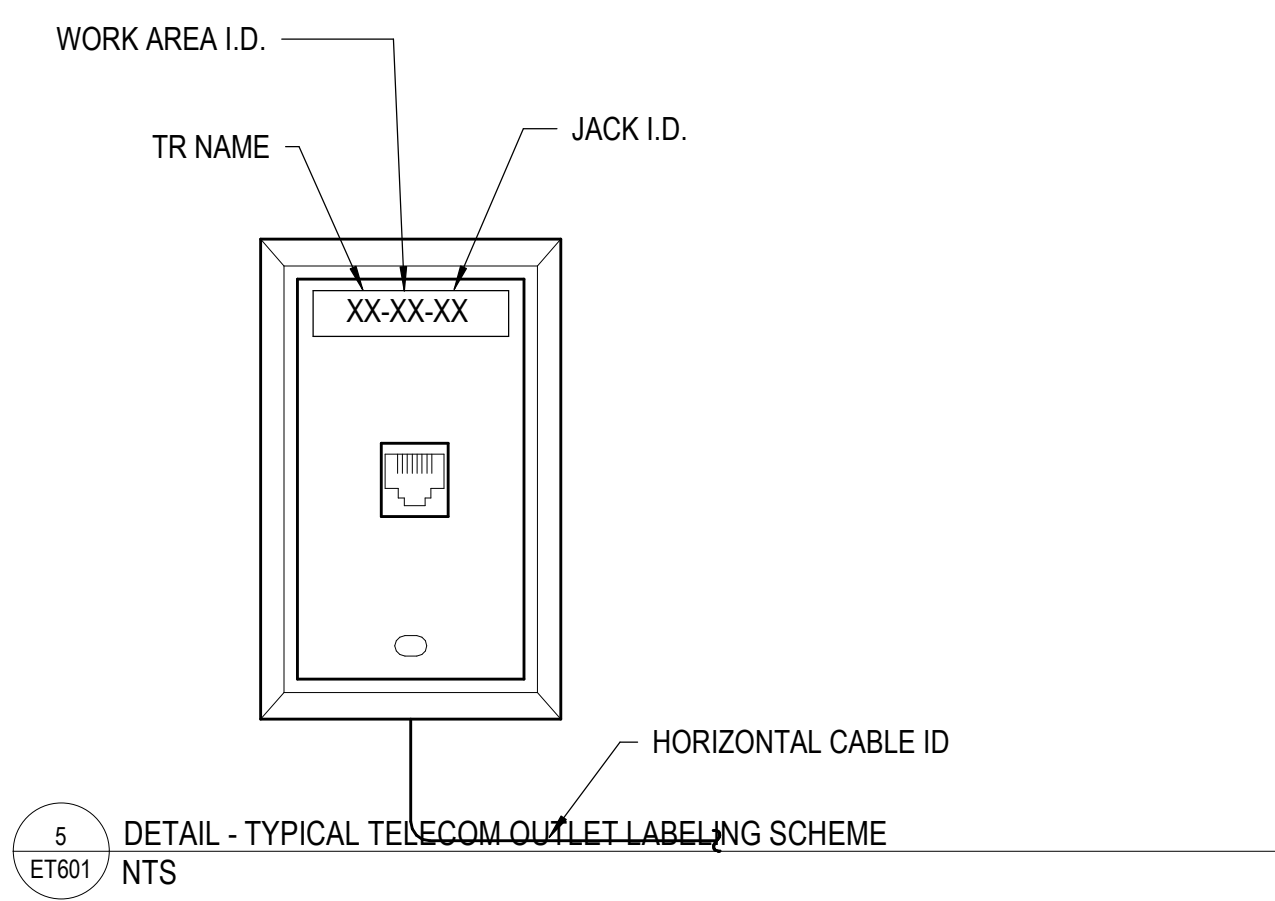
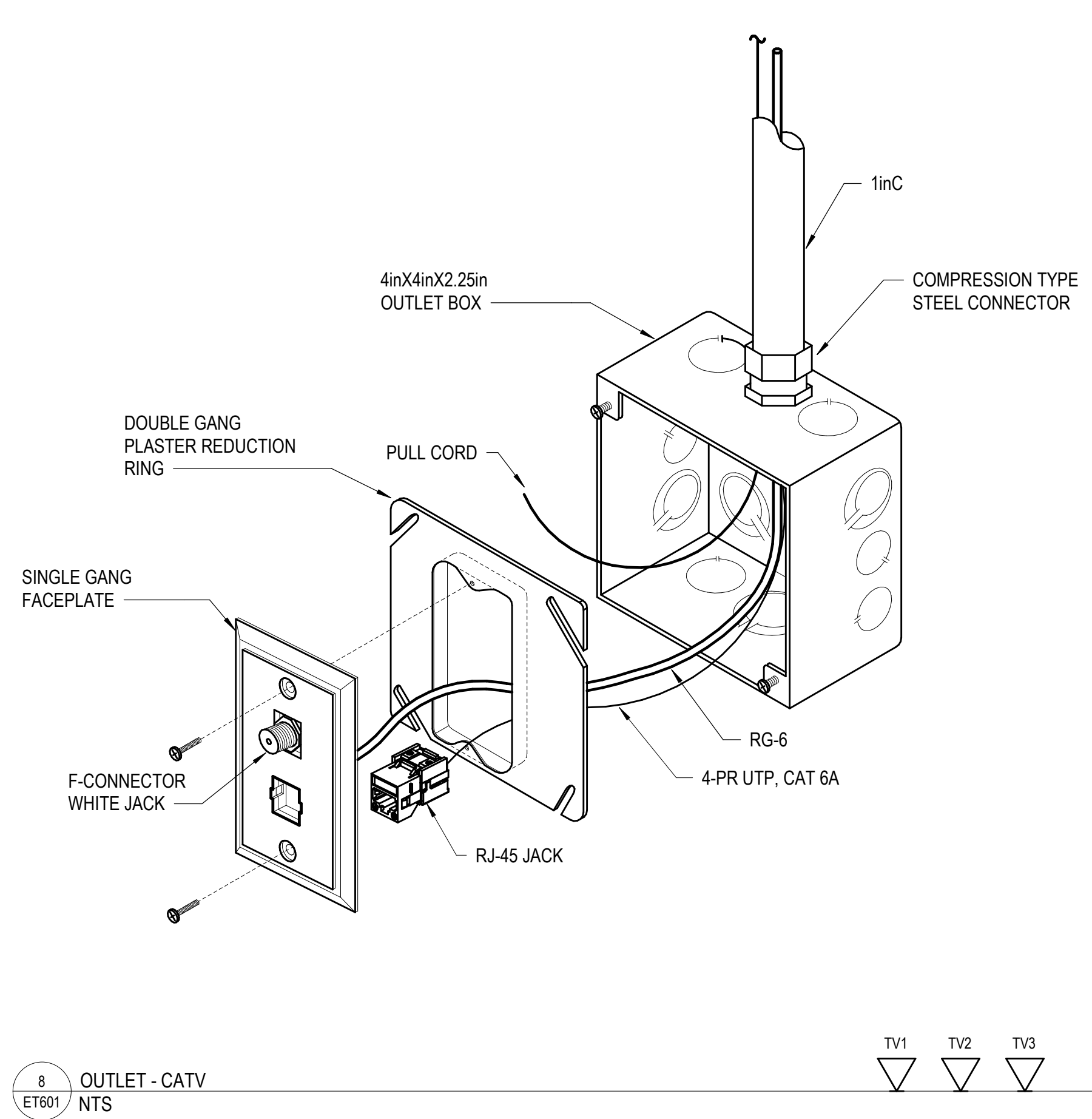
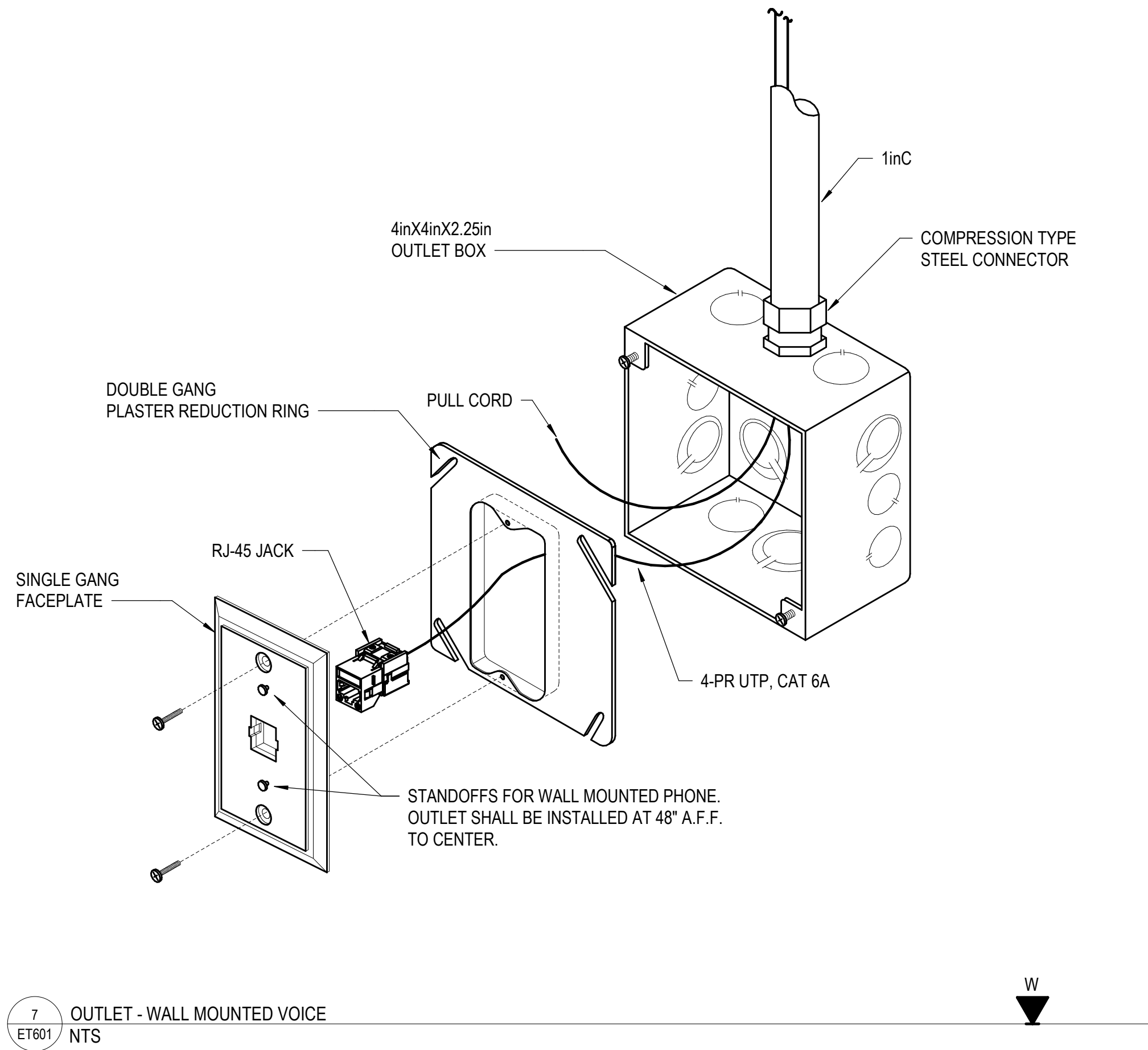
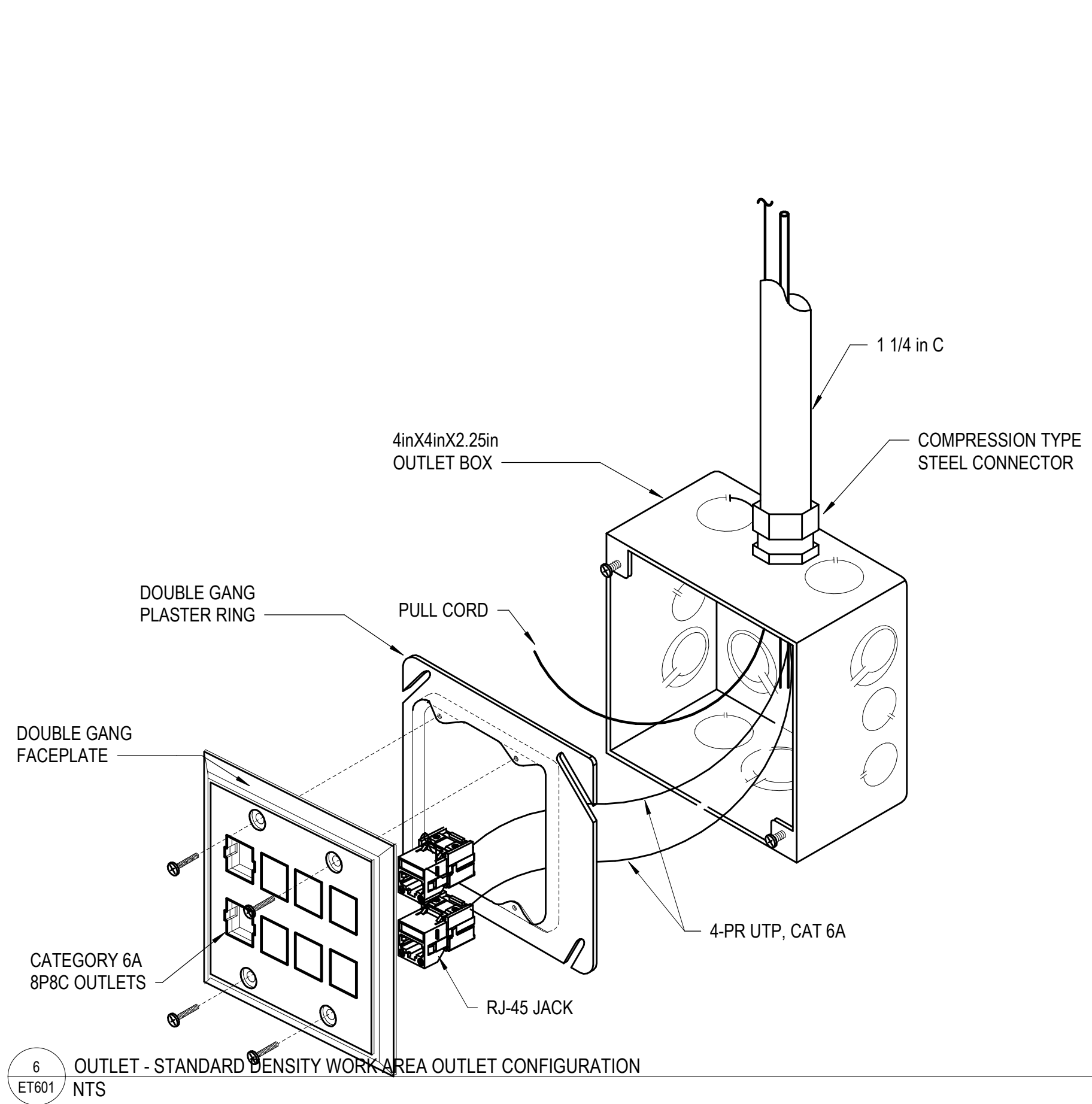
C




D

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- GENERAL NOTES**
- A. REFER TO SHEET ET001 FOR SYMBOLS APPEARING ON THIS SHEET AND ADDITIONAL GENERAL NOTES.
- B. NUMBERING SCHEME: EACH CABLE SHALL HAVE ITS OWN PATCH PANEL NUMBER AND BE LABELED ON THE RECEPTACLE COVER. NUMBERS TO BE DISPLAYED ON THE FACEPLATE AS CLOSE TO THE ACTUAL CABLE AS POSSIBLE. THIS SHALL BE PART OF THE CABLING PRICE AND WILL NOT BE A SEPARATE "CLIM" NUMBER.
- C. PATCH PANELS: INSTALL NEW PATCH PANELS AND WIRE MANAGEMENT AS NECESSARY. VA OIT STAFF SHALL PROVIDE ADVISORY INFORMATION AS TO WHICH SYSTEMS CAN BE RE-UTILIZED. JACKS AT PATCH PANEL SHALL MATCH COLOR OF JACK AT TERMINATION POINT, AND COLORS SHALL BE GROUPED TOGETHER AT PATCH PANEL. IF EXISTING PATCH PANELS OF LOWER CATEGORY RATING THAN REQUIRED OF NEW CABLE INFRASTRUCTURE, CONTRACTOR SHALL ADVISE VA IT POC. IF NEW MATERIALS ARE REQUIRED, THE VA SHALL HAVE THE OPTION TO PROVIDE CUSTOMER PROVIDED EQUIPMENT (CPE) OR TO PURCHASE FROM THE SELECTED CONTRACTOR. MATERIAL SHALL BE NAME BRAND QUALITY WITH CATEGORY 6A OR HIGHER RATING.
- D. TESTING AND CERTIFICATION: ALL DATA CABLING, WHETHER MOVED, RE-USED, OR AREA TO PREVIOUS CONDITION, OR REPLACE DAMAGED ITEMS WITH NEW ITEMS TO MATCH EXISTING SHALL MATCH CATEGORY RATING APPLICABLE TO THE CABLE INSTALLED. TEST SHALL BE ADMINISTERED BY FLUKE, LANTEK, OR EQUIVALENT TESTER THAT IS CERTIFIED BY ETL, OR UL, AND MUST MEET A MINIMUM OF 100BASE-T CONNECTIVITY. VOICE CABLING MUST BE WIREMAAPPED AND CONTINUITY TESTED. ALL DOCUMENTATION IS TO BE PROVIDED SOFT COPY (HARD COPY IS NO LONGER DESIRED). CABLE CERTIFICATION TESTING MUST BE PROVIDED TO THE OMT LOCAL SITE CONTACT, PROJECT ENGINEER, AS WELL AS COR.
- E. CABLES SHALL BE TERMINATED TO THE T-568B STANDARD.
- F. ALL LABELING SHALL BE ANSI/TIA 606 COMPLIANT. BLACK LETTERING ON WHITE FIELD, MACHINE PRINTED. EACH CABLE SHALL HAVE ITS OWN PATCH PANEL NUMBER AND BE LABELED WITH PATCH PANEL LOCATION LABELED ON THE RECEPTACLE COVER (I.E. B87, Y67), "B" FOR BLUE, "Y" FOR YELLOW, WITH A MATCHING LABEL AT ITS TERMINATION POINT IN A TR, FIBER DISTRIBUTION, OR INTERMEDIARY DISTRIBUTION POINT. THE VOICE WILL HAVE A "V" IDENTIFIER AFTER THE CLOSET IDENTIFIER IN THE SCHEME (I.E. V001). NUMBERING IS TO BE DISPLAYED ON THE FACEPLATE AS CLOSE TO THE ACTUAL CABLE AS POSSIBLE. FOR FURTHER GUIDANCE ON ADMINISTRATION MAY BE SPECIFIED IN OTHER SECTIONS OF THIS DESIGN PACKAGE.



		Consultant		Architect/Engineer of Record		Stamp	OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT		Drawing Title TELECOM DETAILS	Phase BID DOCUMENTS	Project Title RENOVATE BASEMENT, BUILDING 1		Project Number 610A4-19-104	
		<div><div></div><div>WSP USA Buildings Inc. One Penn Plaza, 2nd Floor New York, NY 10019 (212) 465-5000 www.wsp.com</div></div>		<div><div></div><div>AE WORKS. AE Works 209 SANDUSKY STREET PITTSBURGH, PA 15212 412-287-7333 AEW Project No. 18025</div></div>		<div></div>	<div><div>VA</div><div>U.S. Department of Veterans Affairs</div></div>		Approved:	Sprinkler Status FULLY SPRINKLERED	Location 2121 LAKE AVE, FORT WAYNE, IN 46805		Drawing Number ET601	
# Revisions		Date								Issue Date 07/15/2020		Checked JMM	Drawn FT	

NOTES:

1. BASED ON ANSI/TIA 569D TABLE 9.

NOTES:
1. TABLE BASED ON ANSI / TIA 569D

CABLETRAY SCHEDULE CTX

GENERAL CABLE SCHEDULE NOTES:
FO - FIBER OPTIC, MM - MULTIMODE, SM - SINGLE MODE, ST - STRANDS, COAX - COAXIAL, PR - PAIRS, UTP - UNSHIELDED TWISTED PAIR

ALL CABLES RUN OUTSIDE SHALL BE OUTSIDE PLANT RATED CABLE. PROVIDE OUTSIDE PLANT CABLES OR INDOOR/OUTDOOR RATED CABLES WHEN:

- CABLE ENTERS OR EXITS THE BUILDING
- CABLE IS RUN UNDERSLAB (INDOOR/OUTDOOR)
- CABLE IS RUN WITHIN IN-SLAB CONDUIT ON GRADE (INDOOR/OUTDOOR)





























ALL OSP CABLE SHALL BE TERMINATED WITHIN 15 METERS OF ENTERING THE BUILDING FROM THE EXTERIOR. THIS DOES NOT APPLY TO INSIDE PLANT CABLE OR INDOOR/OUTDOOR RATED CABLE.

PROVIDE CABLE WITH JACKET AND CONNECTIVITY PER SYSTEM COLOR SCHEDULE.

SEE SPECIFICATION SECTION 27 15 00 FOR CONNECTOR TYPES REQUIRED BY EACH TYPE OF CABLE.

F

ABBREVIATIONS

	DUCT TYPE SMOKE DETECTOR
	FIXED TEMPERATURE HEAT DETECTOR
 BT  BR	SMOKE DETECTOR BT = BEAM TYPE TRANSMITTER BR = BEAM TYPE RECEIVER
 CO	COMBO SMOKE/CARBON MONOXIDE DETECTOR (WITH SOUNDER BASE)
 CM	CARBON MONOXIDE DETECTOR (BATTERY OPERATED)
	HYDROGEN DETECTOR
	TAMPER MODULE
	WATER FLOW MODULE
	PRESSURE MODULE
	PRESSURE LOW MODULE
	CONTROL MODULE
	RELAY
 #	FIRE ALARM SPEAKER WITH VISUAL ALARM # DENOTES CANDELA VALUE (15 CD U.O.N.)
	COMBINATION CARBON MONOXIDE DETECTOR (STAND ALONE RESIDENTIAL 10 YEAR BATTERY BACKUP WITH 120 VOLT POWER CONNECTION)
 #	FIRE ALARM SPEAKER WITH VISUAL ALARM # DENOTES CANDELA VALUE (15 CD U.O.N.)
P 	FIRE ALARM PULL STATION INSTALL NEW PULL STATIONS AS PER ADA REQUIREMENT
	FIRE SMOKE DAMPER
	HEAT SMOKE DAMPER
	FUSE CUT OUT (FCO)
	DATA GATHERING PANEL
	FIRE ALARM CONTROL PANEL
	FIRE ALARM REMOTE ANNUNCIATOR
	FIRE ALARM CENTRAL CONSOLE
	FIRE ALARM TERMINAL CABINET
	WARDEN PHONE
	FIRE ALARM BELL
	DOOR HOLDER

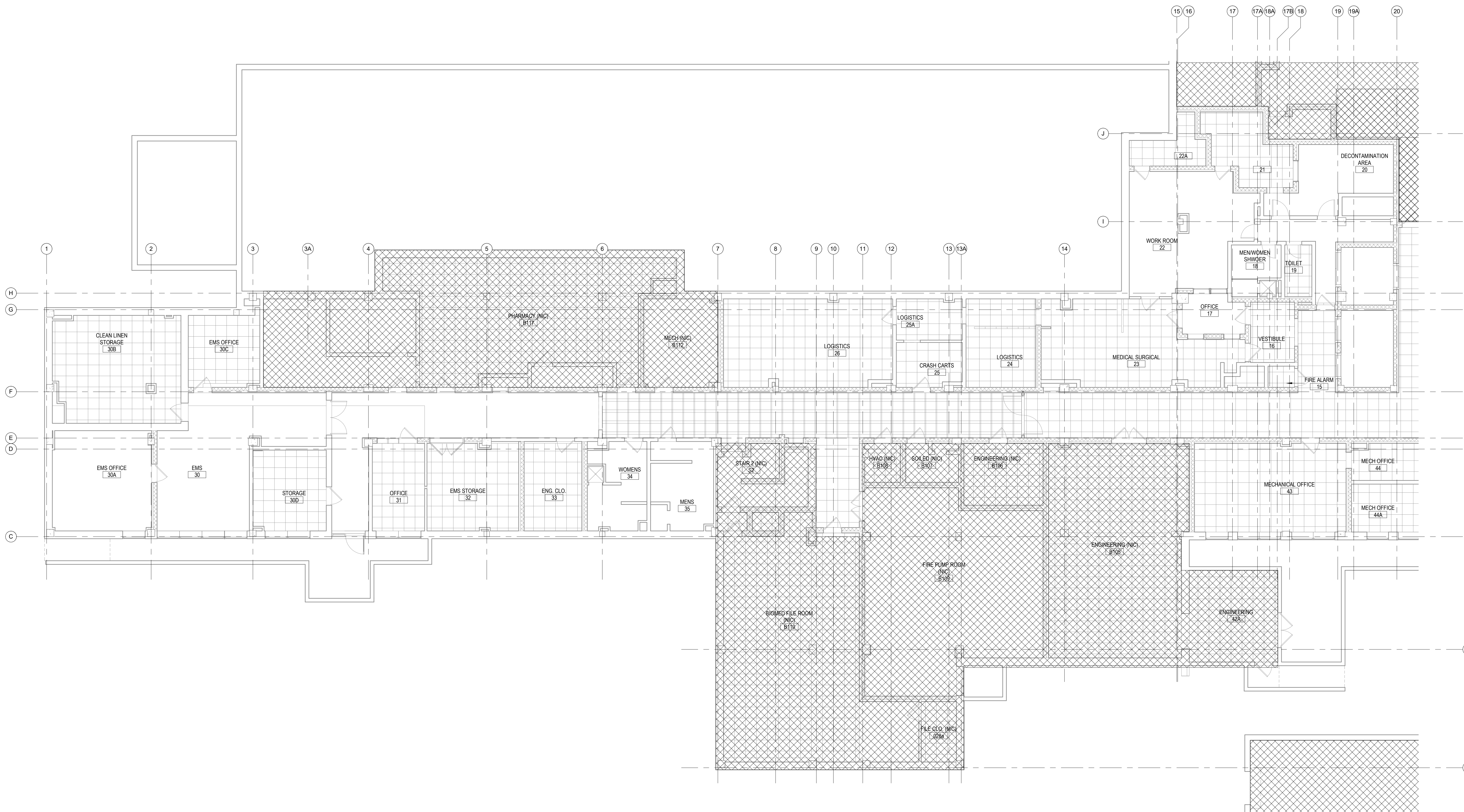
A	AMPERES
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AF/AT	FRAME AMPERAGE / TRIP AMPERAGE
AL	ALUMINUM
ASYM	ASYMMETRICAL
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BMS	BUILDING MANAGEMENT SYSTEM
BOF	BOTTOM OF FIXTURE
CL	CENTER LINE
CAT	CATALOG
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CDT	CONDUIT
CLG	CEILING
CO	CARBON MONOXIDE
COF	CENTER OF FIXTURE
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
CU	COPPER
DM	DEMARK MAN HOLE
DWG	DRAWING
EC	EMPTY CONDUIT
ECH	ELECTRICAL CABINET HEATER
EM	EMERGENCY
ETR	EXISTING TO REMAIN
EUH	ELECTRICAL UNIT HEATER
EWC	ELECTRIC WATER COOLER
EX	EXISTING
FA	FIRE ALARM
FCU	FAN COIL UNIT
G	GROUND
GFI	GROUND FAULT INTERRUPTER
GX	GENERAL EXHAUST
HC	HUNG CEILING
HN	HALF NEUTRAL
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HV	HIGH VOLTAGE
HZ	HERTZ
JB or J	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
KX	KITCHEN EXHAUST
LV	LOW VOLTAGE
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER

MER	MECHANICAL EQUIPMENT ROOM
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N	NEUTRAL
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NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
Ø or PH	PHASE
OL	OVERLOAD
P	POLE
PA	PUBLIC ADDRESS
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PCB	POWER CIRCUIT BREAKER
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RAU	RADIO AMPLIFICATION UNIT
RE	EXISTING TO BE REMOVED
RM	ROOM
RT	RAINTIGHT
RUD	ROLL UP DOOR
SMCP	SNOW MELTING CONTROL PANEL
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR ROOM
T/F	TRANSFORMER
TEL	TELECOMMUNICATIONS
TOF	TOP OF FIXTURE
TRANS	TRANSFORMER
TS	TAMPER SWITCH
TTB	TELECOMMUNICATIONS TERMINAL BOARD
TTC	TELECOMMUNICATIONS TERMINAL CABINET
TV	TELEVISION
TX	TOILET EXHAUST
TYP	TYPICAL
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
VAV	VARIABLE AIR VOLUME BOX
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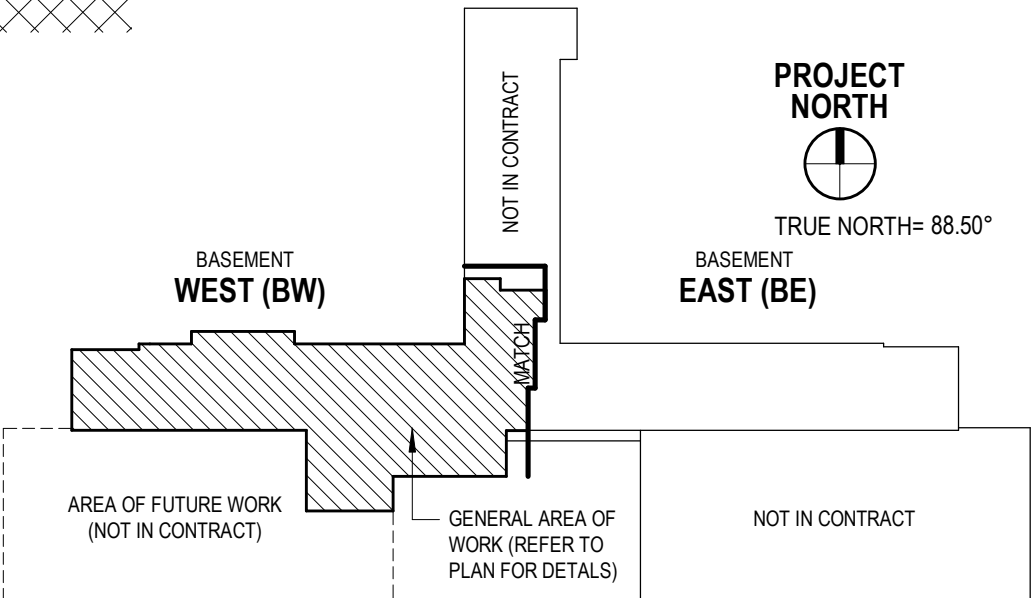
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GENERAL NOTES

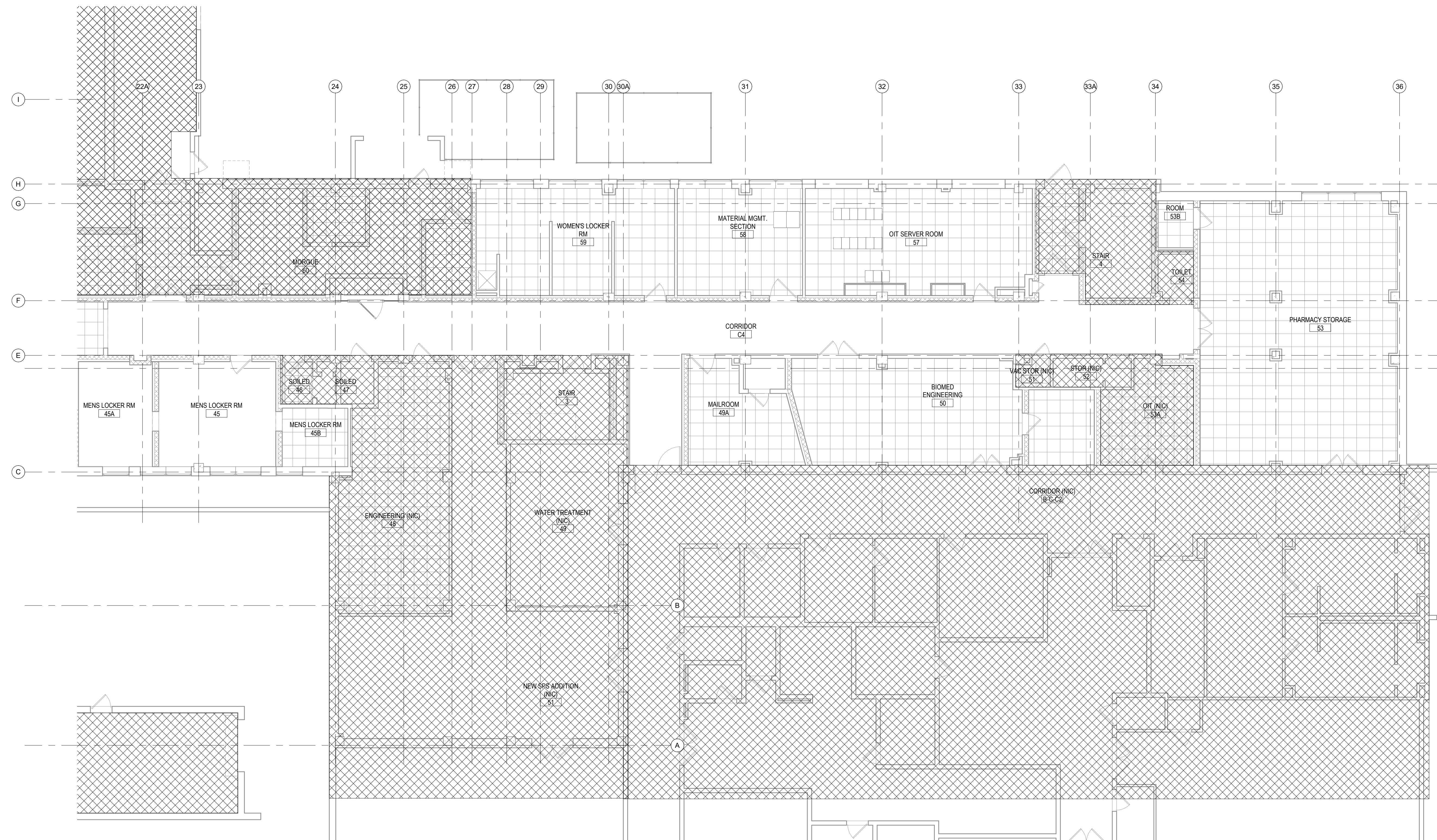
DEMOLISH ALL EXISTING FIRE ALARM DEVICES AND ASSOCIATED
BRANCH WIRING BACK TO EXISTING FATOPACC.
PROVIDE FIRE WATCH FOR ALL AFFECTED AREAS THAT WILL NOT BE
ACTIVELY COVERED DURING CONSTRUCTION.



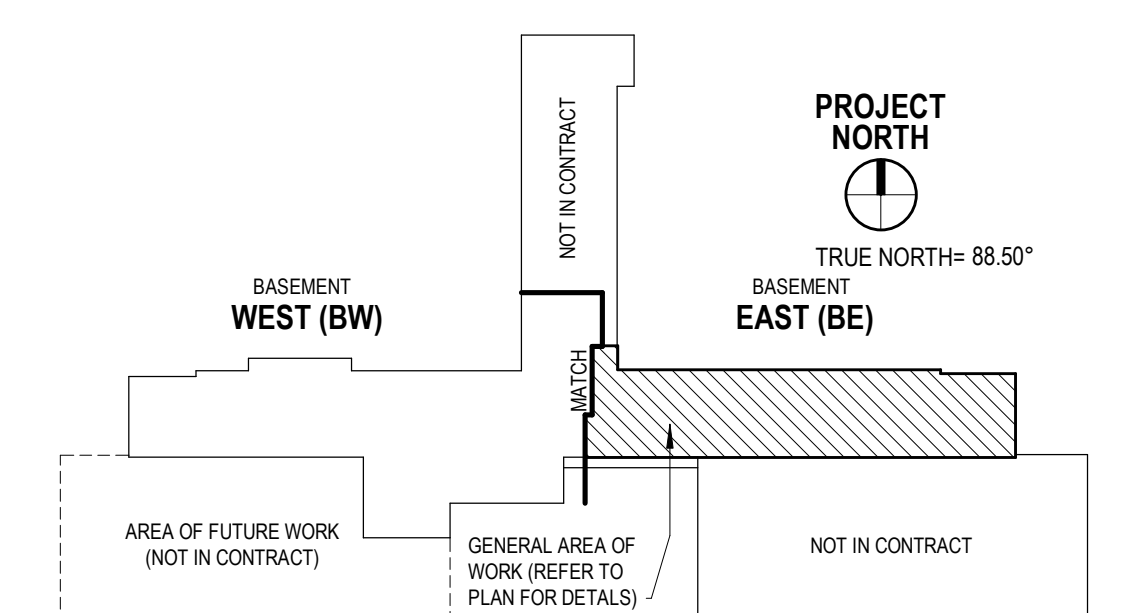
1 BASEMENT - FIRE ALARM DEMO CEILING PLAN - WEST
1/8" = 1'-0"



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1 BASEMENT - FIRE ALARM DEMO CEILING PLAN - EAST

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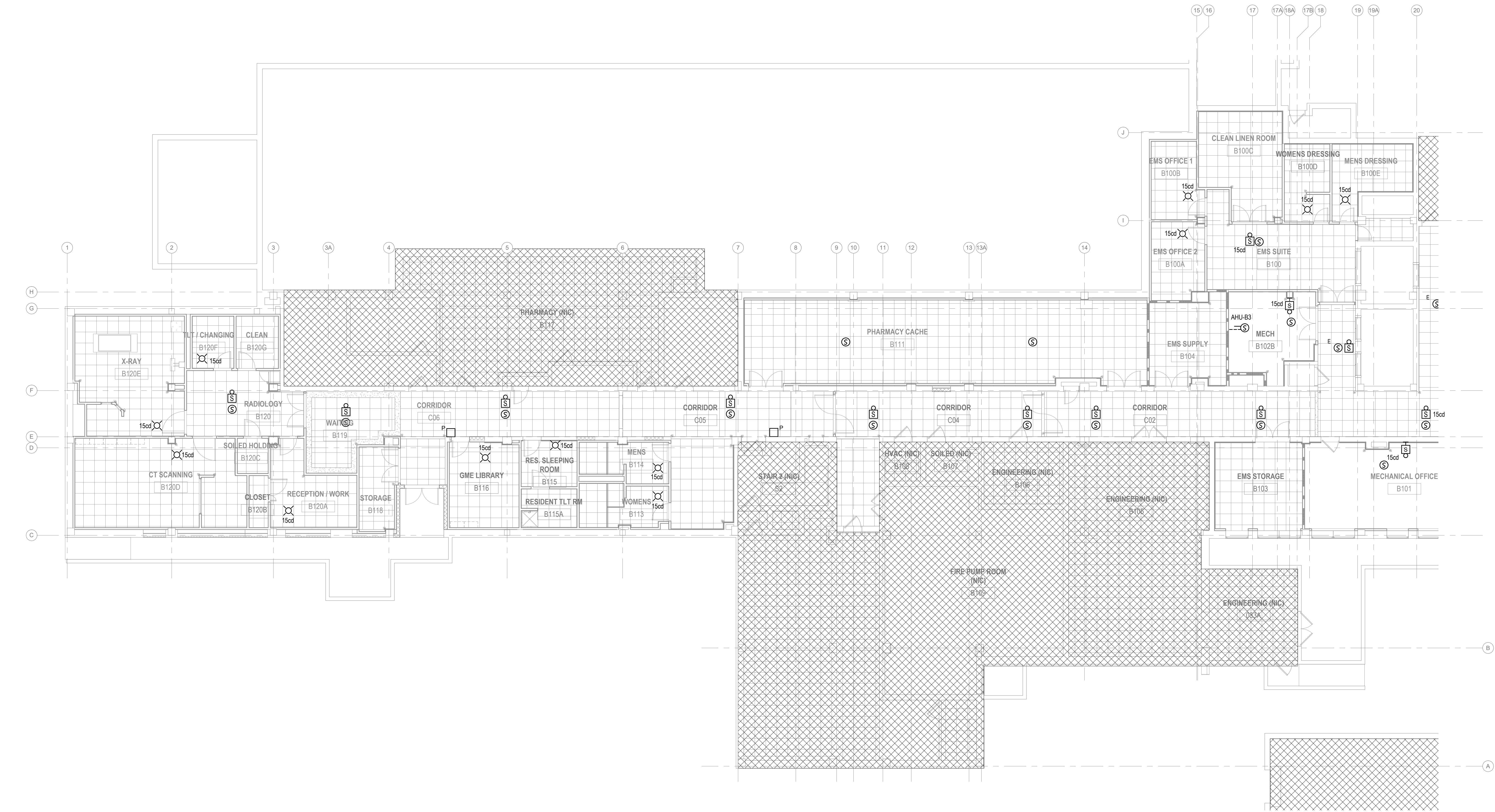
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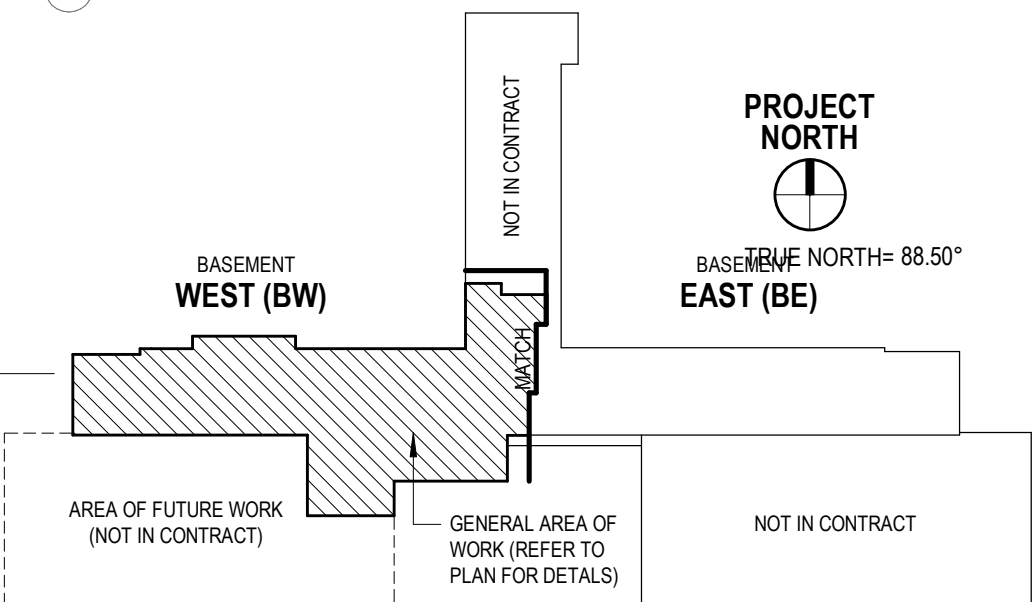
BM 360718025.F - Wayne VAMC Basement Bldg 1118025_WSP_PLEGT_Corona 2018.rvt

GENERAL NOTES

- CONTRACTOR SHALL NOTE THAT THE BASIS OF DESIGN FOR NEW DEVICES WILL BE SIMPLE TO MATCH THE SYSTEM CURRENTLY BEING INSTALLED ON SITE.
- ALL DEVICES WILL BE CONNECTED BACK TO THE EXISTING FATC ON THIS FLOOR.
- COORDINATE CEILING HEIGHTS AND DEVICE LOCATIONS WITH ALL DISCIPLINES AND AS SHOWN ON ARCHITECTURAL RCP.



1 BASEMENT - FIRE ALARM NEW CEILING PLAN - WEST
1/8" = 1'-0"
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GENERAL NOTES

1. CONTRACTOR SHALL NOTE THAT THE BASIS OF DESIGN FOR NEW DEVICES WILL BE SIMPLEX TO MATCH THE SYSTEM CURRENTLY BEING INSTALLED ON SITE.
2. ALL DEVICES WILL BE CONNECTED BACK TO THE EXISTING FATC ON THIS FLOOR.
3. COORDINATE CEILING HEIGHTS AND DEVICE LOCATIONS WITH ALL DISCIPLINES AND AS SHOWN ON ARCHITECTURAL RCP.

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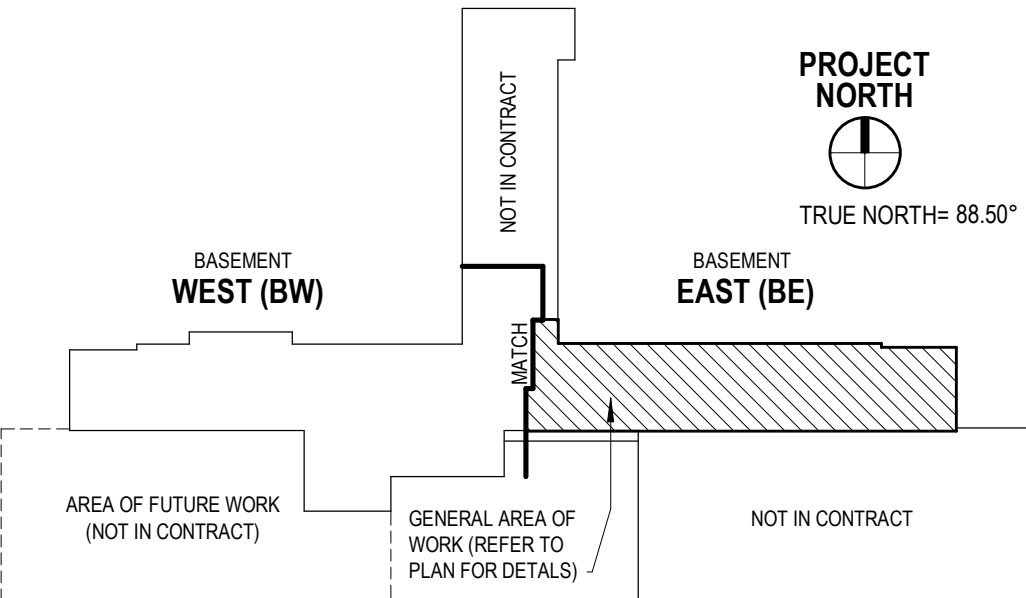
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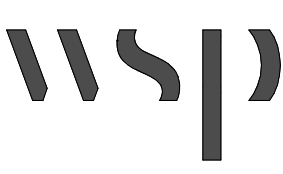
1 BASEMENT - FIRE ALARM NEW CEILING PLAN - EAST

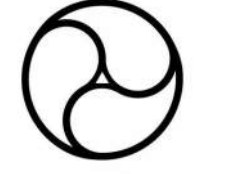
1/8" = 1'-0"


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#	Revisions	Date

Consultant
 WSP USA Buildings Inc. One Penn Plaza, 2nd Floor New York, NY 10019 (212) 465-5000 www.wsp.com

Architect/Engineer of Record
 AE WORKS. AE Works 209 SANDUSKY STREET PITTSBURGH, PA 15212 412-287-7333 AEW Project No. 18025

Stamp


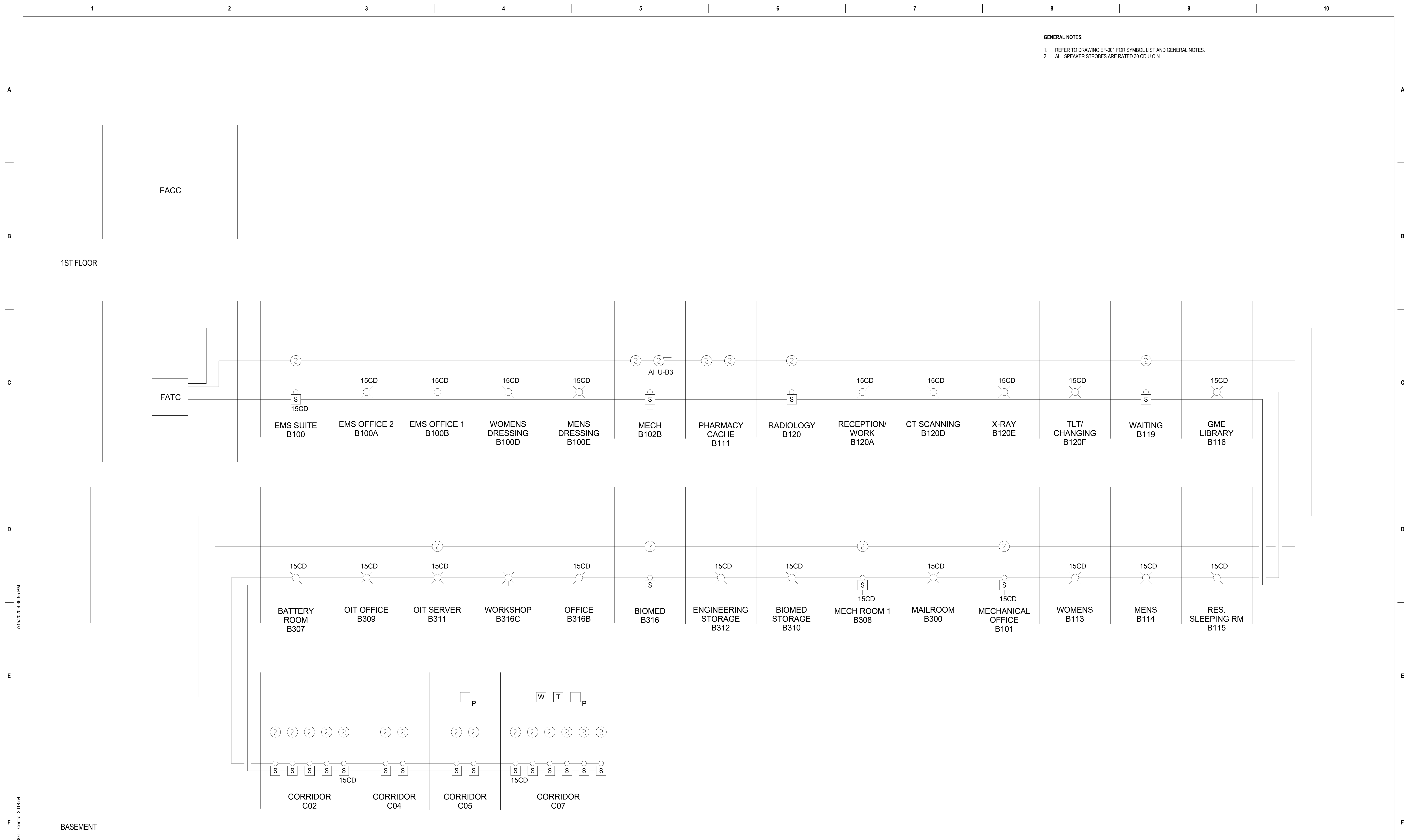
OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
 U.S. Department of Veterans Affairs

Drawing Title FIRE ALARM BASEMENT PLAN - EAST
Approved:

Phase BID DOCUMENTS
Sprinkler Status FULLY SPRINKLERED

Project Title RENOVATE BASEMENT, BUILDING 1
Location 2121 LAKE AVE, FORT WAYNE, IN 46805
Issue Date 07/15/2020
Checked JS
Drawn JK

Project Number 610A4-19-104
Building Number 01
Drawing Number EF100E



BIM 360://18025 Ft. Wayne VAMC Basement Bldg 1/18025 WSP PLBGIT Central 2018.rvt

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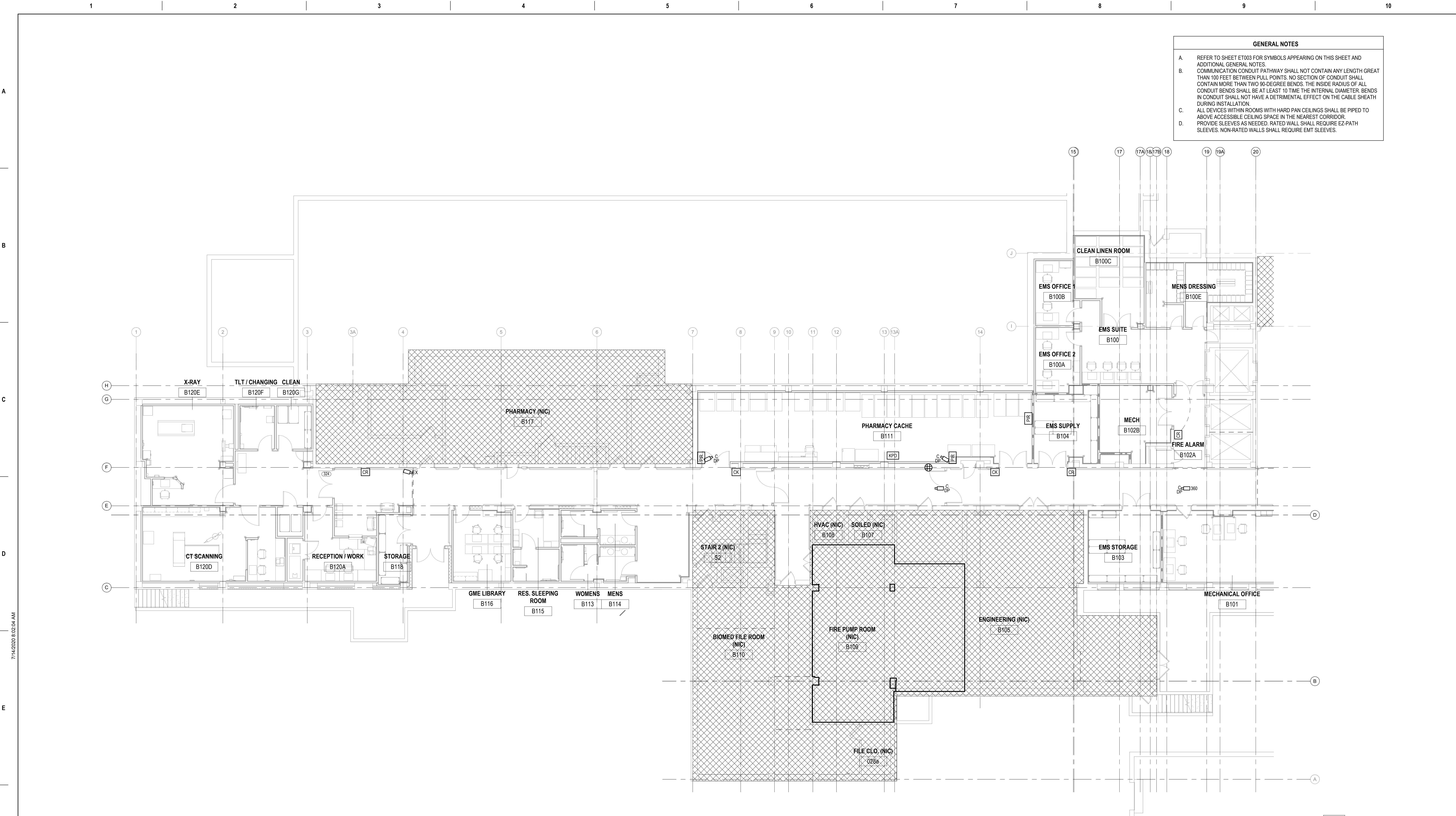
GENERAL NOTES:

1 FIRE ALARM RISER
NOT TO SCALE

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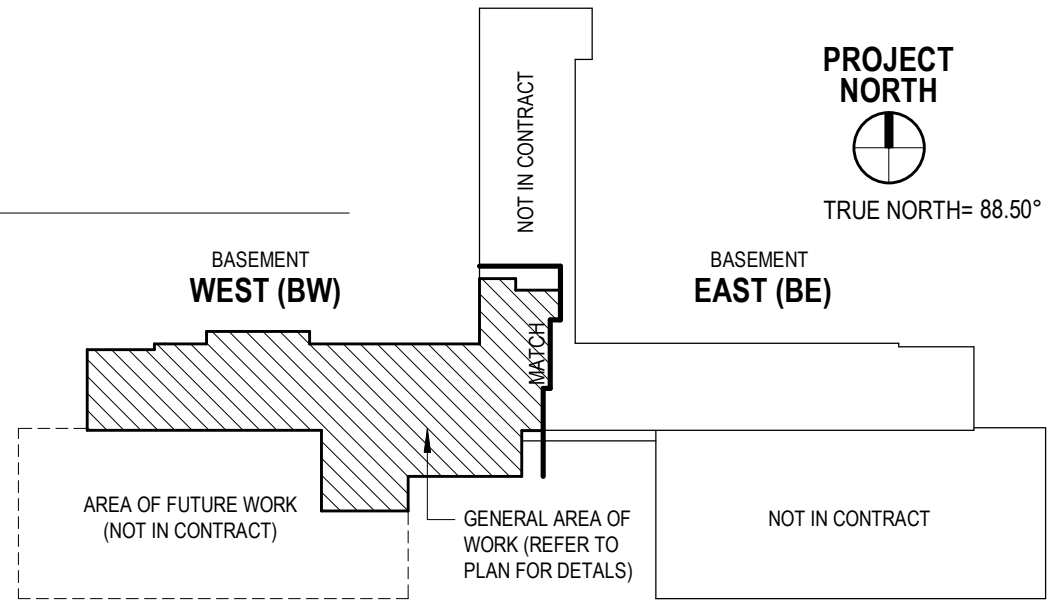
Project Number 610A4-19-104
Building Number 01
Drawing Number ES001

VIDEO SURVEILLANCE NOTES:
1. REFER TO FLOOR PLAN DRAWINGS FOR ADDITIONAL MOUNTING HEIGHTS. CONFIRM MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS.


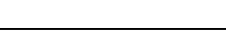



- GENERAL NOTES**
- A. REFER TO SHEET ET003 FOR SYMBOLS APPEARING ON THIS SHEET AND ADDITIONAL GENERAL NOTES.
 - B. COMMUNICATION CONDUIT PATHWAY SHALL NOT CONTAIN ANY LENGTH GREAT THAN 100 FEET BETWEEN PULL POINTS. NO SECTION OF CONDUIT SHALL CONTAIN MORE THAN TWO 90-DEGREE BENDS. THE INSIDE RADIUS OF ALL CONDUIT BENDS SHALL BE AT LEAST 10 TIMES THE INTERNAL DIAMETER. BENDS IN CONDUIT SHALL NOT HAVE A DETRIMENTAL EFFECT ON THE CABLE SHEATH DURING INSTALLATION.
 - C. ALL DEVICES WITHIN ROOMS WITH HARD PAN CEILINGS SHALL BE PIPED TO ABOVE ACCESSIBLE CEILING SPACE IN THE NEAREST CORRIDOR.
 - D. PROVIDE SLEEVES AS NEEDED. RATED WALL SHALL REQUIRE EZ-PATH SLEEVES. NON-RATED WALLS SHALL REQUIRE EMT SLEEVES.

1 BASEMENT-SECURITY NEW FLOOR PLAN - WEST
1/8" = 1'-0"



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			Consultant		Architect/Engineer of Record		Stamp		OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT		Drawing Title SECURITY SYSTEM FLOOR PLANS - BASEMENT WEST		Phase BID DOCUMENTS		Project Title RENOVATE BASEMENT, BUILDING 1		Project Number 610A4-19-104			
			 <div>WSP USA Buildings Inc. One Penn Plaza, 2nd Floor New York, NY 10019 (212) 465-5000 www.wsp.com</div>		 <div>AE Works 209 SANDUSKY STREET PITTSBURGH, PA 15212 412-287-7333 AEW Project No. 18025</div>				<div>VA</div> <div>U.S. Department of Veterans Affairs</div>				Approved:		Sprinkler Status FULLY SPRINKLERED		Location 2121 LAKE AVE, FORT WAYNE, IN 46805		Building Number 01	
															Issue Date 07/15/2020		Checked JMM			
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																	Drawing Number ES100W			
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VA FORM 08 - 6231

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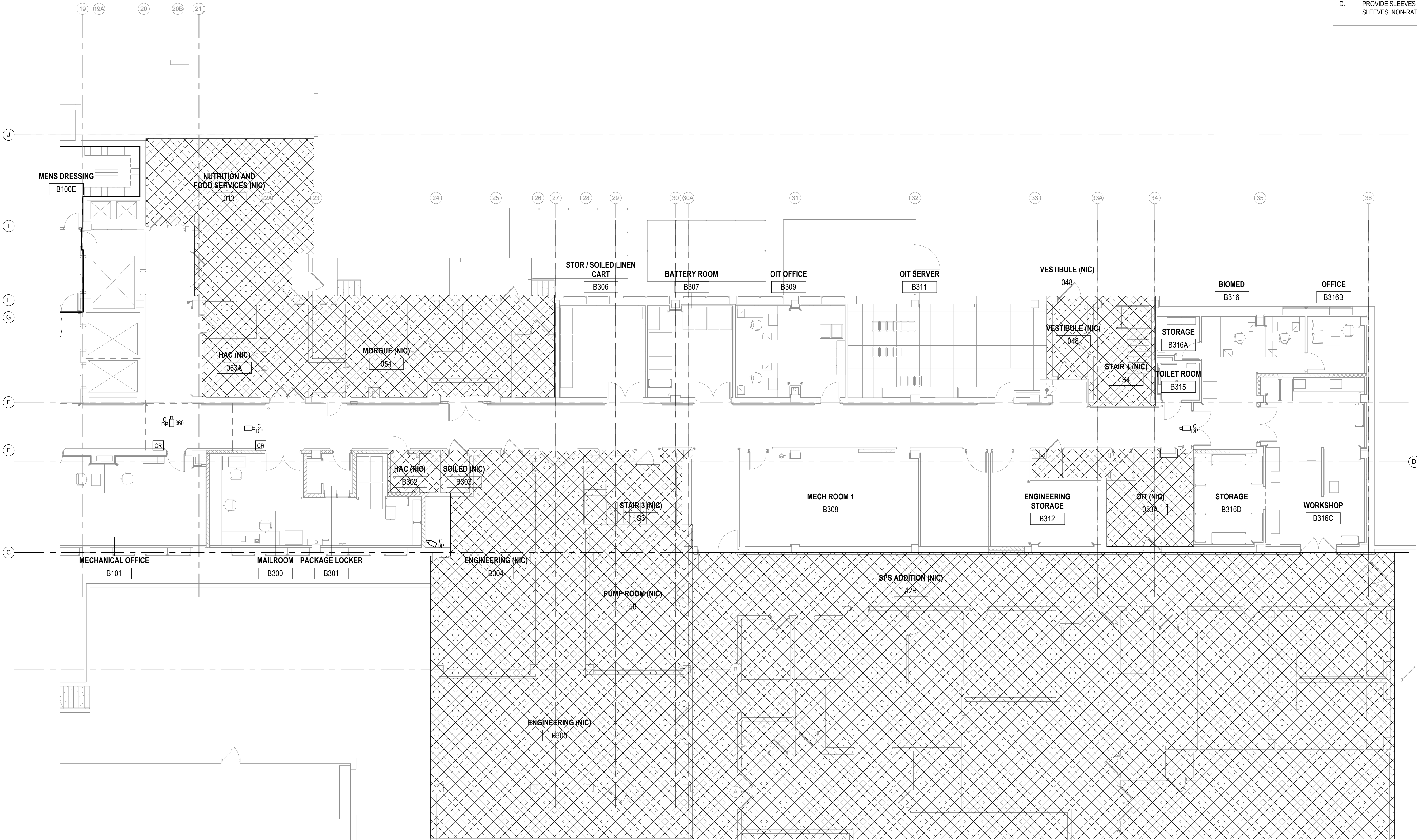
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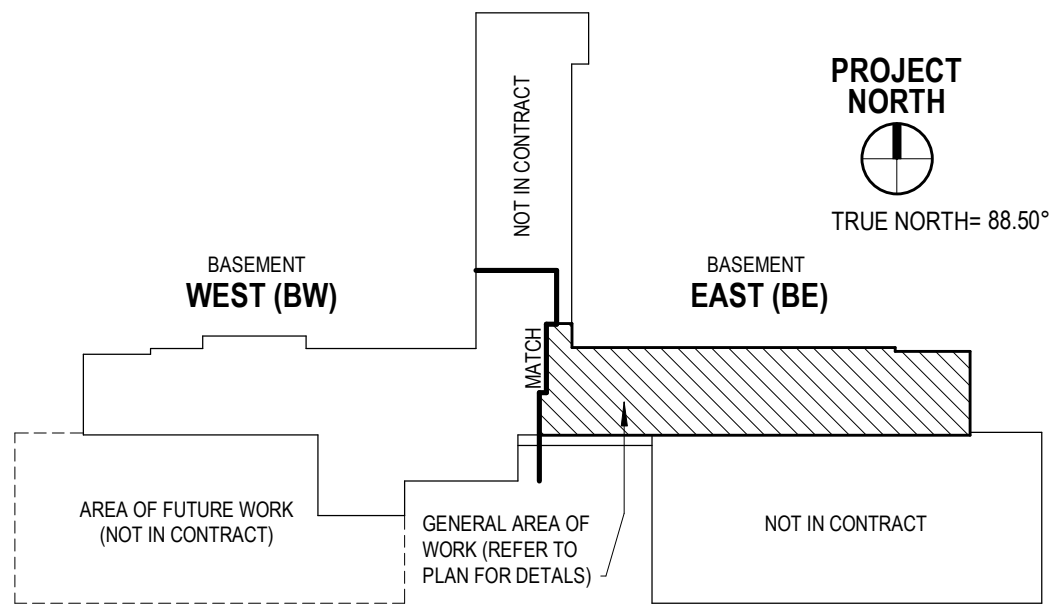
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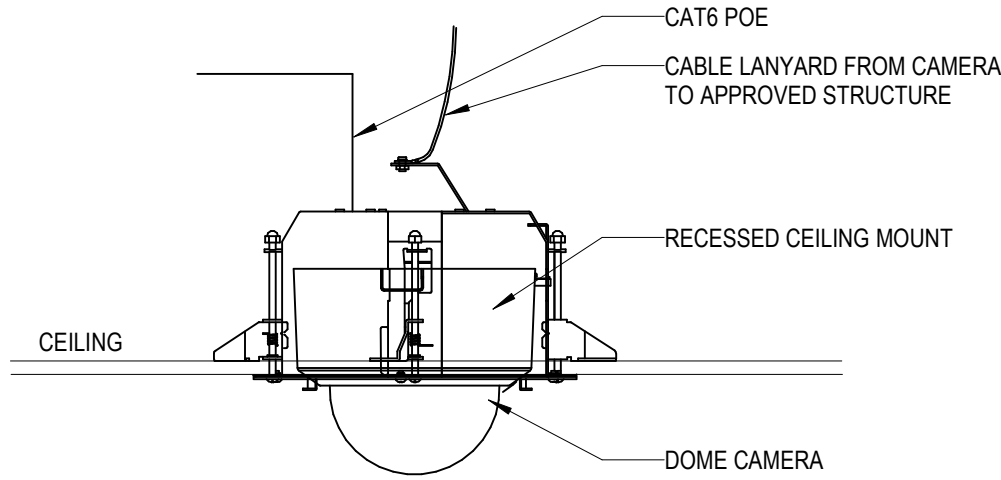
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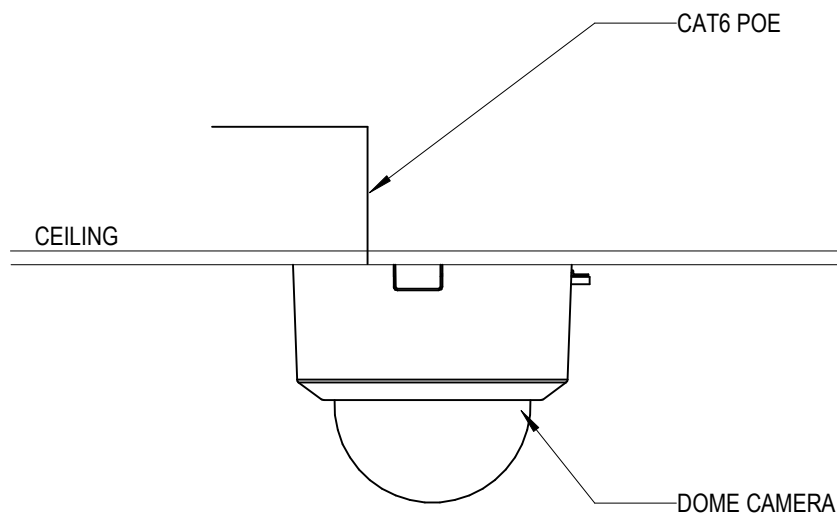
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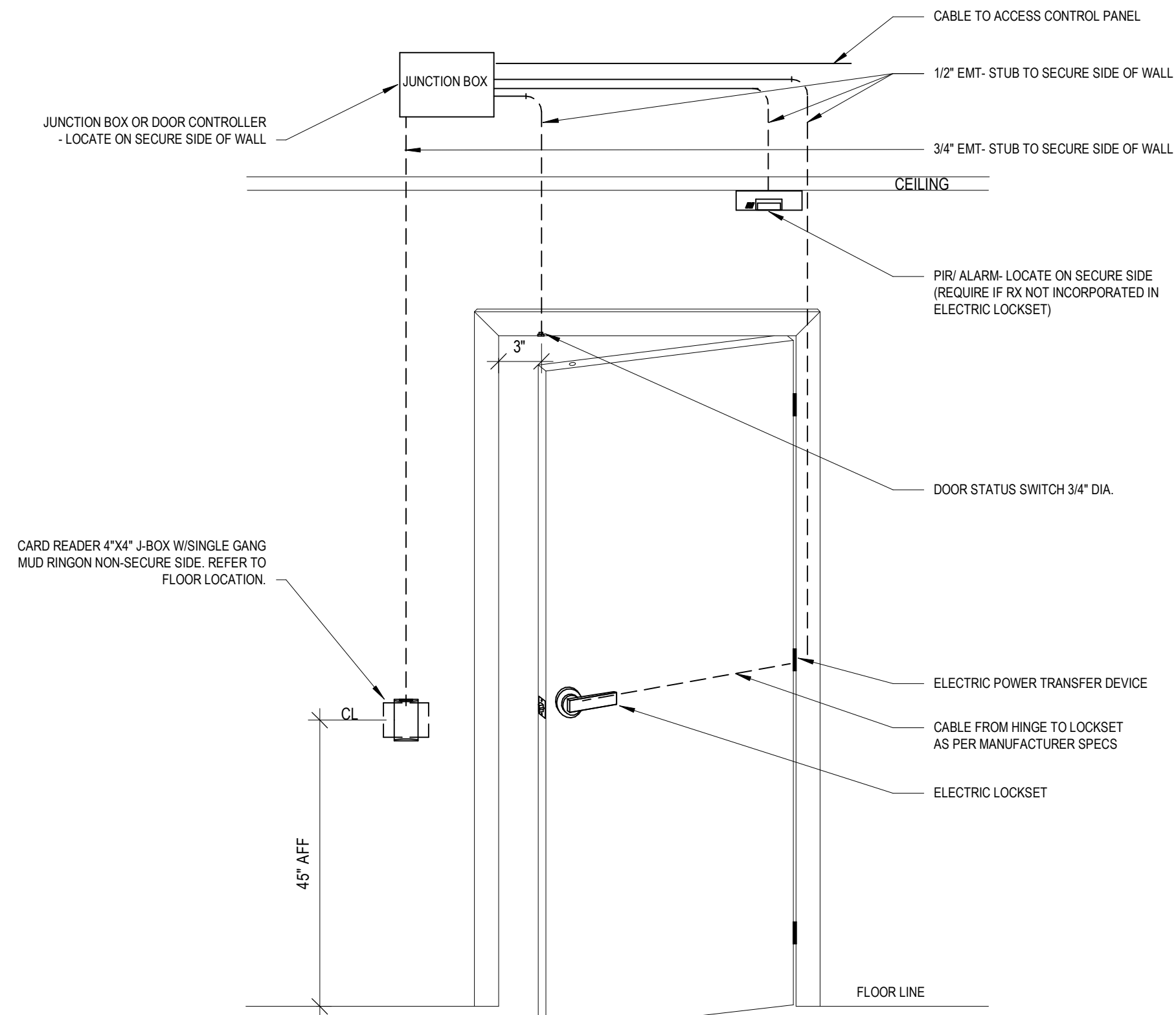
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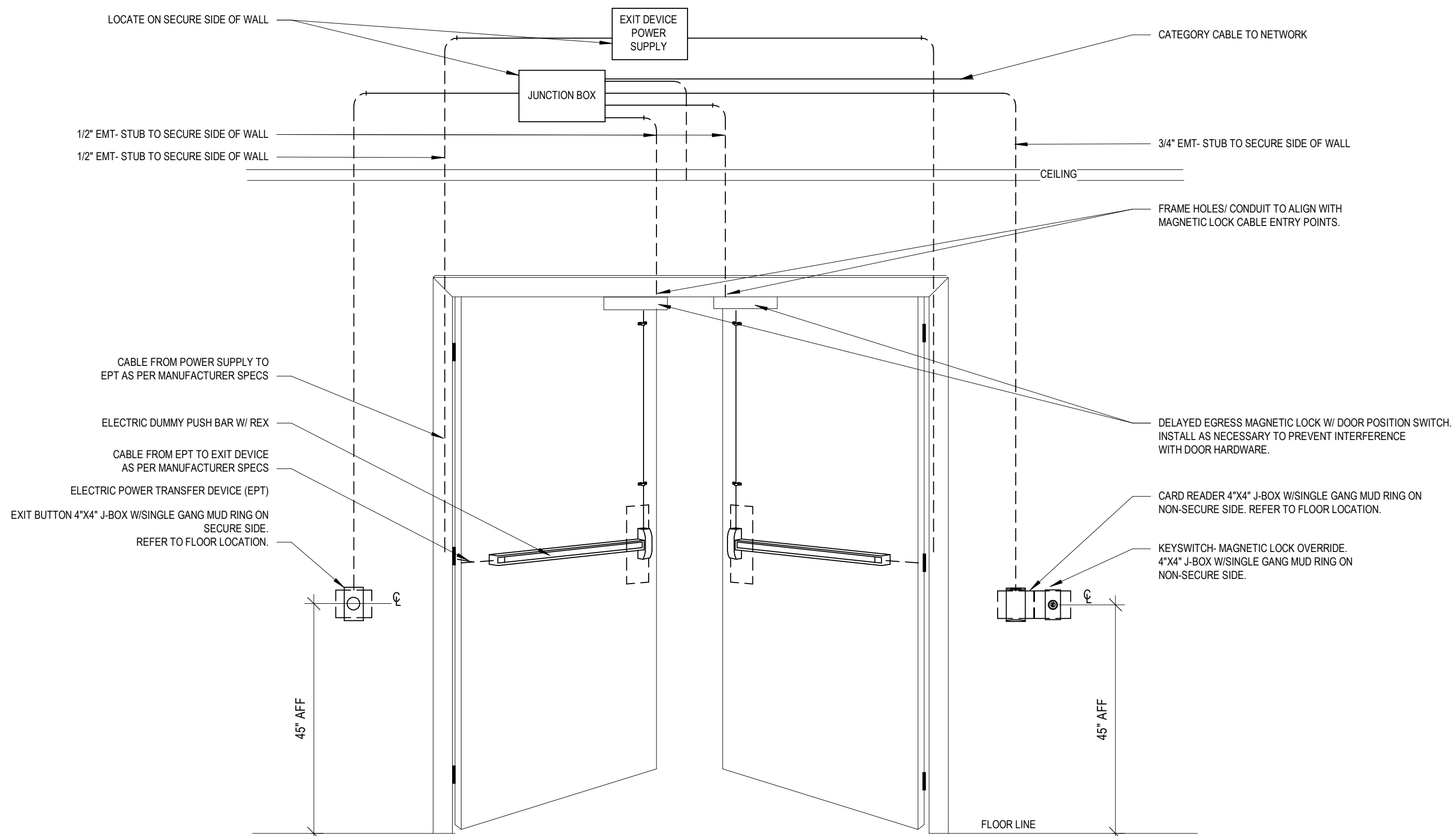
2
ES601
TYPICAL INDOOR FLUSH MOUNT DOME CAMERA
NTS



4
ES601
TYPICAL INDOOR SURFACE MOUNT DOME CAMERA
NTS



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ES601
SINGLE DOOR - ELECTRIC LOCKSET
NTS



3
ES601
DOUBLE DOOR - DELAYED EGRESS MAGNETIC LOCKS
NTS

GENERAL NOTES

- A. COORDINATE WITH ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT DEVICE LOCATION PRIOR TO ROUGH IN.
- B. DEVICE LOCATIONS AND LAYOUTS ARE TYPICAL. EXACT DEVICE TYPES, QUANTITIES, AND OPERATIONAL CRITERIA SHALL BE DERIVED FROM DOOR SCHEDULE, DOOR HARDWARE SPECIFICATION, ACCESS CONTROL SPECIFICATION, MANUFACTURER'S DOCUMENTATION, AND OTHER PERTINENT PROJECT INFORMATIONAL RESOURCES.
- C. CARD READER/PUSH BUTTON LOCATIONS SHALL BE DEPICTED ON FLOOR PLANS AND ELEVATIONS. INSURE COMPLIANCE WITH FEDERAL, STATE, AND LOCAL CODES AND REGULATIONS.
- D. WIRING TO DEVICES SHALL MEET OR EXCEED DEVICE MANUFACTURER'S SPECIFICATIONS.
- E. CONTRACTOR SHALL PROVIDE PROPER DELAY SYNCHRONIZATION BETWEEN LOCKS, LATCHES, MAGNETIC LOCKS, AND AUTO OPERATORS AS PER DOOR HARDWARE SPECIFICATION AND DOOR SCHEDULE NOTES/REMARKS.
- F. ACCESS CONTROL, DOOR HARDWARE, AND ELECTRICAL CONTRACTORS SHALL COORDINATE FOR INFRASTRUCTURE, INSTALLATION, AND OPERATIONAL VERIFICATION OF DOOR SYSTEMS.
- G. NOT ALL DOOR TYPES AND DOOR DEVICES MAY BE SHOWN ON THIS SHEET. REFER TO DOOR HARDWARE SPECIFICATION FOR HARDWARE LISTING.
- H. DIVISION 08 HARDWARE SHOWN FOR REFERENCE ONLY. EXACT DEVICE SIZE, LOCATIONS, INFRASTRUCTURE REQUIREMENTS, ETC. SHALL BE BY DIVISION 08.
- I. DEVICE ROUGH-INS SHALL BE PROVIDED BY DIVISION 26.
- J. CABLING BETWEEN ELECTRIC LOCK SETS AND ELECTRIC HINGE/EPT SHALL BE BY DIV. 08 CONTRACTOR.
- K. DIVISION 08 DOOR HARDWARE CONTRACTOR SHALL ENSURE THAT ALL DEVICES INSTALLED UNDER DIVISION 08 SCHEDULES AND SPECIFICATIONS ARE FULLY OPERATIONAL PRIOR TO DIVISION 28 INTEGRATION WITH THE INDIVIDUAL DOOR SYSTEMS.

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