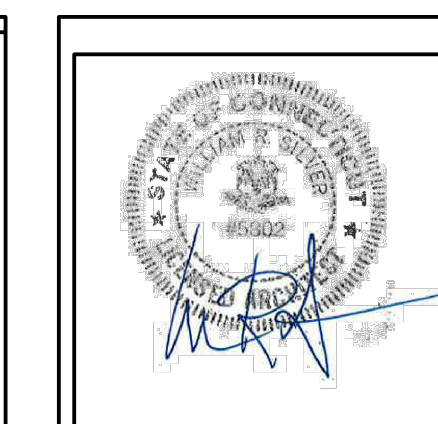
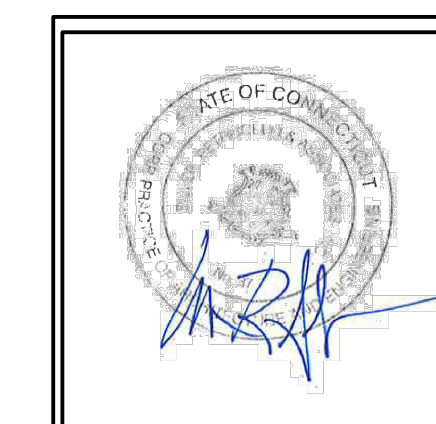


# UConn HEALTH

## MUNSON ROAD SWITCHGEAR REPLACEMENT PROJECT NO. 14-601.07

PREPARED BY:  
Silver, Petrucelli and Associates  
3190 Whitney Avenue  
Building 2  
Hamden, CT 06518



DRAWING INDEX	
DWG. NO.	DRAWING TITLE
G1	GENERAL INFORMATION
A1	PARTIAL THIRD FLOOR ARCHITECTURAL PLAN
E1	SYMBOLS, NOTES, SCHEDULES & DETAILS
E2	PARTIAL THIRD FLOOR DEMOLITION PLAN - ELEC.
E3	PARTIAL THIRD FLOOR PLANS - ELECTRICAL
E4	SITE PLAN - ELECTRICAL
E5	ONE LINE DIAGRAM - ELECTRICAL

### BUILDING CODE AND FIRE RESISTANCE NOTES

BUILDING CODE REVIEW:  
2005 STATE BUILDING CODE, STATE OF CONNECTICUT  
WITH 2005, 2009 AND 2013 AMENDMENTS  
PROJECT TYPE: XX  
CONSTRUCTION TYPE: IIB  
FIRE PROTECTION: FULLY SPRINKLERED FIRE ALARM SYSTEM  
BUILDING OCCUPANCY CLASSIFICATION:  
X GROUP X MIXED WITH Y GROUP Y, ACCESSORY Z  
GROUP Z  
PROJECT OCCUPANCY: GROUP X  
PROJECT AREA: X,XXX SQUARE FEET  
PROJECT OCCUPANT LOAD: XXX PERSONS  
EGRESS CAPACITY: EGRESS DOORS AND CORRIDORS,  
UNCHANGED

BUILDING ELEMENT	CODE REQ'D RATINGS	PROJECT RATINGS
STRUCTURAL FRAME	0-HR	N/A
EXTERIOR BEARING WALLS	0-HR	N/A
INTERIOR BEARING WALLS	0-HR	N/A
FIRE WALLS AND PARTY WALLS (705)	0-HR	N/A
EXIT ENCLOSURES (1019)	1-HR	N/A
MIXED USES	PER TABLE 302.3.2	N/A
EXIT ACCESS CORRIDORS	0-HR	0-HR
EXTERIOR NON LOAD BEARING WALLS	PER TABLE 602	N/A
INTERIOR NON LOAD BEARING WALLS	0-HR	N/A
FLOOR CONSTRUCTION	0-HR	N/A
ROOF CONSTRUCTION	0-HR	N/A

N/A - INDICATES THOSE BUILDING ELEMENTS NOT IMPACTED BY PROJECT CONSTRUCTION (EXISTING BUILDING ELEMENTS COMPLY WITH THE REQ'D RATINGS)

NO	SYM	DESCRIPTION	DATE	APP'D
		ISSUE FOR BIDDING	3/4/11	

ISSUE DATE

**ABBREVIATIONS**

A.B.	ANCHOR BOLT	FDN.	FOUNDATION	P.C.B.	PAINTED CONCRETE BLOCK
A.C.P.	ASBESTOS CEMENT PIPE	F.F.	FINISHED FLOOR	P.G.B.	PAINTED GYPSUM BOARD
ADJ.	ADJUSTABLE	FIN.	FINISH FINISHED	PL.	PLATE
A.F.F.	ABOVE FINISH FLOOR	FIXT.	FIXTURE	PLUMB.	PLUMBING
A.C.T.	ACOUSTICAL CEILING TILE	FL.	FLOOR	PLYWD.	PLYWOOD
ALUM.	ALUMINUM	FT.	FOOT	PREP.	PREPARATION
APPROX.	APPROXIMATE	F.S.	FAR SIDE	P.T.	PRESSURE TREATED
ARCH.	ARCHITECTURAL	FTG.	FOOTING	PTD.	PAINTED
ASPH.	ASPHALT			P.V.C.	POLYVINYL CHLORIDE
AVG.	AVERAGE				
BSMT.	BASEMENT	G	GAS	R	RISER
BD	BOARD	GEN.	GENERAL	RAD.	RADIUS
BRG.	BEARING	G.C.	GENERAL CONTRACTOR	R.C.P.	REINFORCED CONCRETE PIPE
BRK.	BRICK	GYP. BD.	GYPSUM BOARD	R.D.	ROOF DRAIN
BIT.	BITUMINOUS			REINF.	REINFORCEMENT
BLK.	BLOCK	H.C.	HANDICAPPED	REQD.	REQUIRED
BLDG.	BUILDING	HD.	HEADED	R.H.	ROOF HATCH
B.S.	BOTH SIDES	HDWR.	HARDWARE	R.L.	ROOF LEADER
		HGT.	HEIGHT	ROOM	ROOM
C.I.	CAST IRON	H.P.	HIGH POINT	S.	STORM
C.I.P.	CAST IN PLACE CONCRETE	H.M.	HOLLOW METAL	SAN.	SANITARY
C.B.	CATCH BASIN	HORIZ.	HORIZONTAL, HORIZONTALLY	S.C.	SEALED CONCRETE
C.B.R.	CATCH BASIN TO BE REMOVED	H.B.	HOSE BIBB	SCHED.	SCHEDULE
CLG.	CEILING	H.R.	HOUR	SECT.	SECTION
C.	CENTER LINE	HYD.	HYDRANT	S.F.	STEP FOOTING
C. BD.	CHALK BOARD	INSUL.	INSULATION, INSULATED	SIM.	SIMILAR
CURB CUT	CURB CUT	INT.	INTERIOR	S.O.G.	SLAB ON GRADE
C.O.	CLEAN OUT	INV.	INVERT	SPEC.	SPECIFICATIONS
COL.	COLUMN	JAN.	JANITOR	SQ.	SQUARE
CONC.	CONCRETE	K.P.	KICK PLATE	SQ. FT.	SQUARE FEET
CONF.	CONFERENCE			STL.	STEEL
C.M.U.	CONCRETE MASONRY UNIT			STRUCT.	STRUCTURAL
CONT.	CONTINUOUS, CONTINUE			SUSP.	SUSPENDED, SUSPENSION
C.J.	CONTROL JOINT/			SW.	SHEAR WALL
	CONSTRUCTION JOINT			S.W.F.	SHEAR WALL FOOTING
CONTR.	CONTRACTOR				
DET.	DETAIL	LAM.	LAMINATE	T.	TELEPHONE
DIA.	DIAMETER	L.F.	LINEAL FOOT	T&B	TOP & BOTTOM
DIM.	DIMENSION	L.G.	LONG	TECH.	TECHNOLOGY
DR.	DOOR	L.O.C.	LOCATION	T.O.	TOP OF
DN.	DOWN	L.P.	LOW POINT	T.O.F.	TOP OF FRAME
DWG.	DRAWING	L.T.G.	LIGHTING	T.O.S.	TOP OF STEEL
				T/S	TOP OF SLAB
E	ELECTRICAL	MAS.	MASONRY	T/W	TOP OF WALL
EA.	EACH	MAX.	MAXIMUM	TYP.	TYPICAL
E.C.T.R.	EXISTING CEILING TO REMAIN	MECH.	MECHANICAL		
ED.	EDUCATION	M.H.	MANHOLE	U.O.N.	UNLESS OTHERWISE NOTED
ELEC.	ELECTRICAL	MIN.	MINIMUM		
E.F.	EACH FACE	MISC.	MISCELLANEOUS	V.B.	VINYL-BASE
E.J.	EXPANSION JOINT	M.O.	MASONRY OPENING	V.C.T.	VINYL COMPOSITE TILE
EL.	ELEVATION	MTD.	MOUNTED	VERT.	VERTICAL
ELEV.	ELEVATION	N.A.	NOT APPLICABLE	V.I.F.	VERIFY IN FIELD
EMER.	EMERGENCY	N.I.C.	NOT IN CONTRACT		
ENCL.	ENCLOSURE	NO.	NUMBER	W.	WATER
ENL.	ENLARGED	NOM.	NOMINAL	W/	WITH
ENT.	ENTRANCE	N.S.	NEAR SIDE	WCJ	WALL CONTROL JOINT
EP.	EPOXY PAINT	N.T.S.	NOT TO SCALE	WD	WOOD
EQ.	EQUAL	O.C.	ON CENTER	WF.	WIDE FLANGE
ES.	EXPOSED STRUCTURE	O.C.C.	OCCUPANT	W.W.F.	WELDED WIRE FABRIC
E.T.R.	EXISTING TO REMAIN	OPNG.	OPENING	W.W.M.	WELDED WIRE MESH
E.W.	EACH WAY				
E.W./E.F.	EACH WAY/EACH FACE				
EXAM.	EXAMINATION				
EXIST.	EXISTING				
EXP.	EXPANSION				
EXT.	EXTERIOR				

**SYMBOL LEGEND**

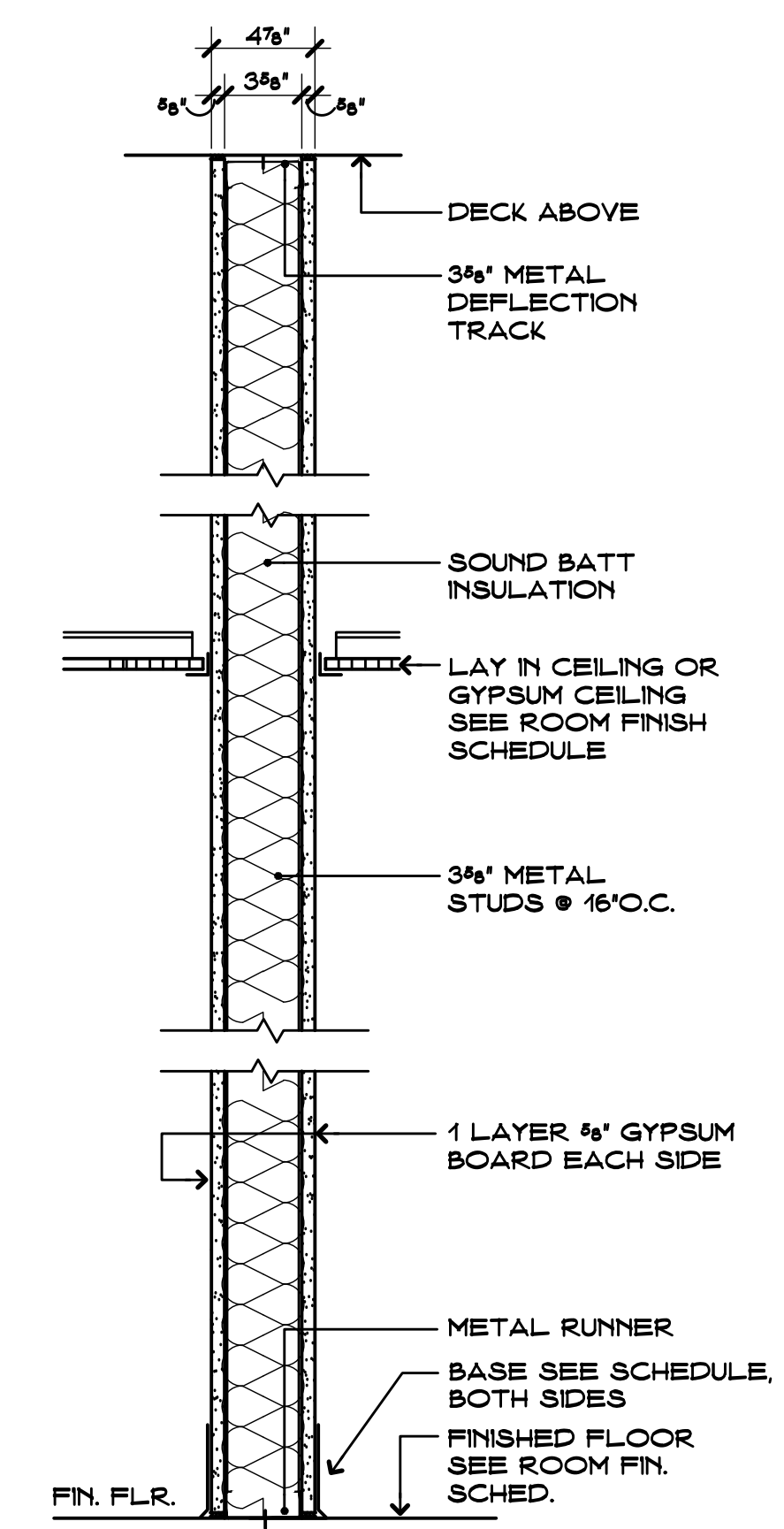
(XXX)	ROOM NUMBER
(XX)	DOOR NUMBER
(XX)	DEMOLITION NOTE
(XX)	WINDOW TYPE
(XX)	DETAIL NUMBER
(XX)	DRAWING NUMBER
(XX)	CONSTRUCTION NOTE
(X)	SECTION / DETAIL
(X)	DRAWING NUMBER
(XX)	WALL SECTION
(XX)	DRAWING NUMBER
(XX)	INTERIOR / EXT. ELEVATION
(XX)	DRAWING NUMBER
(X)	REFERENCE POINT
(XX)	WALL TYPE
(X)	REVISION MARK

**GRAPHIC LEGEND**

	CONCRETE
	CONCRETE MASONRY UNITS
	BRICK
	STONE
	METALS
	COMPACTED GRAVEL
	EARTH
	PLYWOOD
	ACOUSTICAL TILE
	WOOD FRAMING - THROUGH MEMBER
	WOOD FRAMING - INTERRUPTED MEMBER
	FINISHED WOOD
	BATT INSULATION
	RIGID INSULATION
	GYPSUM BOARD

**GENERAL NOTES**

- FOR SPECIFIC WALL DESIGNATIONS AND RATED DESIGNS, SEE THIS DWG A1.
- GENERAL NOTES FOUND ANYWHERE IN THE CONTRACT DOCUMENTS RELATE TO ALL DRAWINGS AND SPECIFICATIONS.
- ALL MATERIALS & EQUIPMENT ARE NEW UNLESS OTHERWISE NOTED AS 'EXISTING'.
- ALL EXISTING UTILITIES & EQUIPMENT LOCATIONS ARE APPROXIMATE - CONTRACTOR TO FIELD VERIFY.
- ASSUME THAT ALL OF THE EXISTING STEEL IS PAINTED WITH LEAD BASED PAINT. CONTRACTOR IS RESPONSIBLE FOR THE PROPER SAFETY PRECAUTIONS WHEN DISTURBING THE PAINT. THIS INCLUDES THE STATE OF CONNECTICUT AND OSHA.
- ALL MATERIALS USED IN THE SCOPE OF WORK MUST NOT CONTAIN ANY ASBESTOS AND THE CONTRACTOR MUST CERTIFY THAT TO THE BEST OF HIS/HER KNOWLEDGE THAT MATERIALS USED IN THE SCOPE OF WORK ARE ASBESTOS FREE.
- PROVIDE ALL TEMPORARY PARTITIONS AND PROTECTION METHODS TO INSURE THAT THE OWNERS MATERIALS, EQUIPMENT AND OPERATIONS ARE PROTECTED AND REMAIN OPERATIONAL DURING CONSTRUCTION.
- THE DRAWINGS AND THE SPECIFICATIONS ARE COMPLEMENTARY - WHAT IS REQUIRED BY ONE IS REQUIRED BY BOTH.

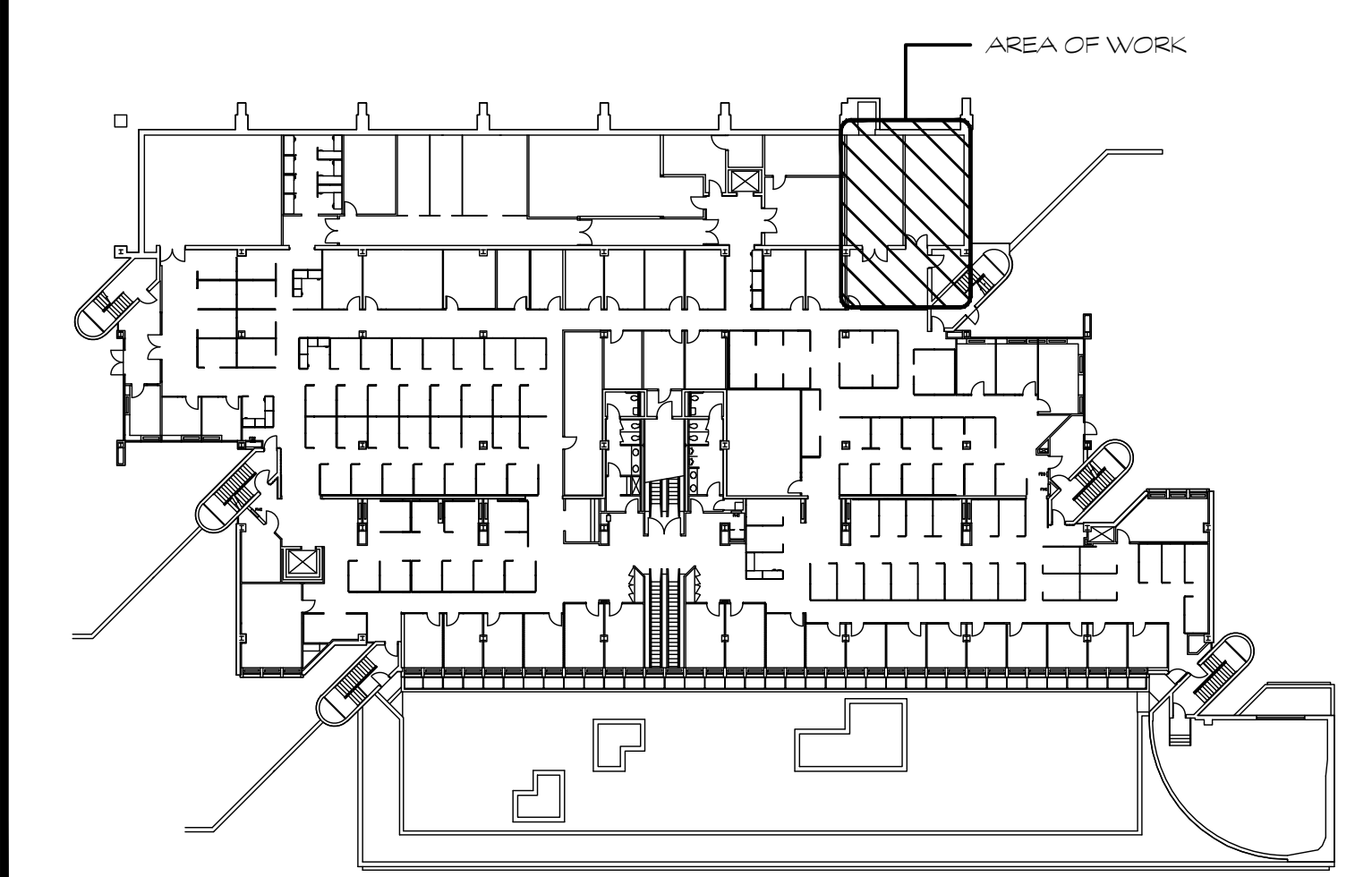


**TYPE 1**

3-5/8" METAL STUDS @ 16" O.C.  
 SOUND ATTENUATED BATTS  
 (1) LAYER 5/8" TYPE 'X' FIRE RATED GWB, SIM TO UL 411  
 (1) HOUR FIRE RATING CONTRACTOR TO CONFIRM EXISTING WALL THICKNESS.

**PARTITION TYPES 1**

SCALE: 1/2" = 1'-0"



**KEY PLAN**

SCALE: NONE

NORTH

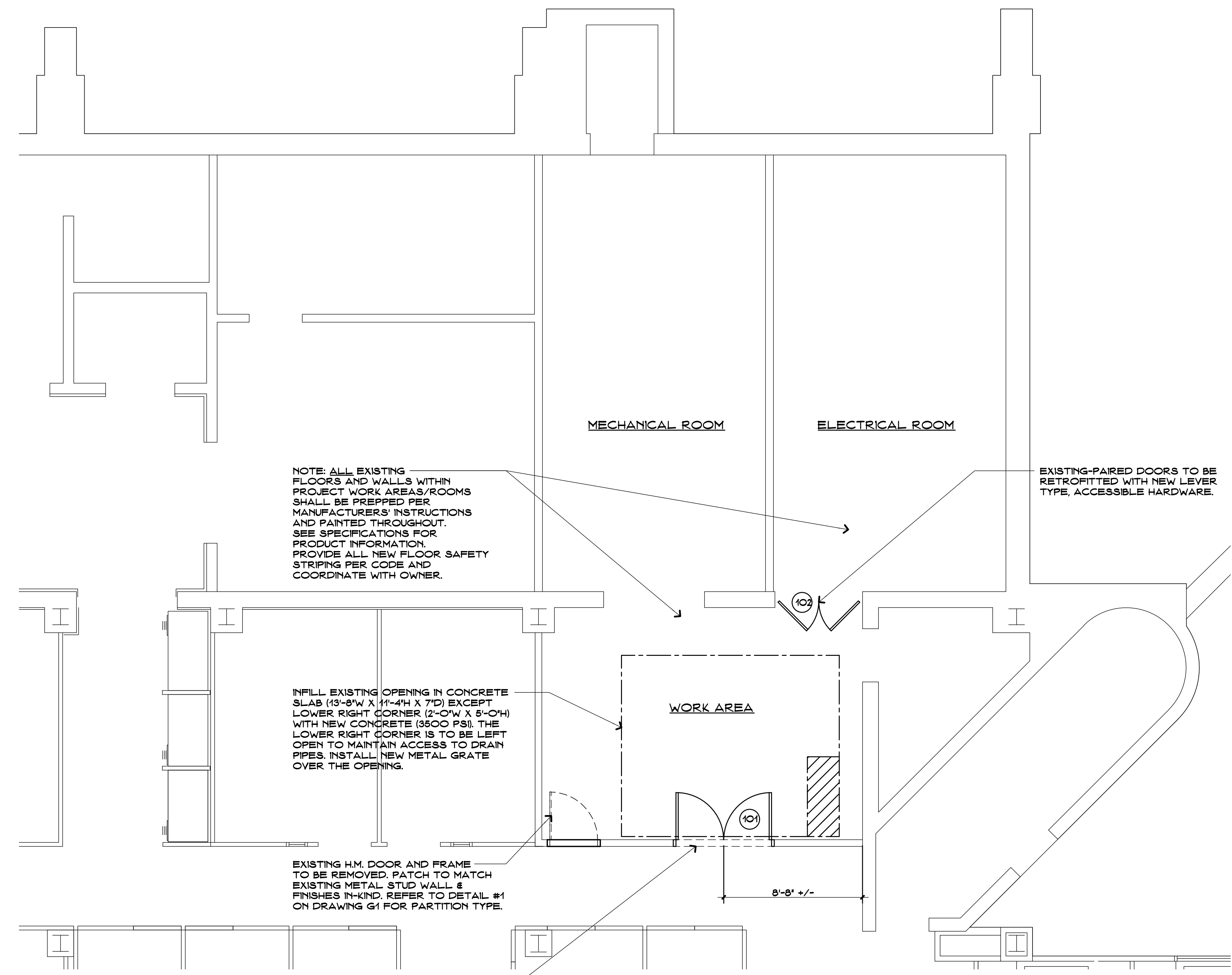
**DOOR SCHEDULE**

DOOR NUMBER	DOOR		FRAME		FIRE RATING	HARDWARE - SEE PROJECT MANUAL		REMARKS
	SIZE	TYPE	DETAIL/SHEET NO.	MATERIAL		FIRE CODE	DISABLED REQUIREMENTS	
101	3'-0" X 8'-0" 2'-6" X 8'-0" PAIRED	1	A	HM	RESISTS PASSAGE OF SMOKE B' LABELED (90 MIN/ET) C' LABELED (48 MIN/ET) D' LABELED (20 MIN/ET)	LATCHING/LOCKABLE AUTOMATIC CLOSER ELECTRO-MECH. CLOSER DELAYED ACTION CLOSER PUSH/PULL LEVER HANDLES/LOCK. KICK PLATES TACTILE WARNING ACCESSIBLE THRESHOLD	<ul style="list-style-type: none"> <li>INDICATES NEW WORK</li> <li>INDICATES EXISTING TO REMAIN</li> <li>INDICATES EXISTING TO BE REMOVED &amp; REPLACED</li> <li>INDICATES EXISTING TO BE REMOVED</li> </ul>	
102							<ul style="list-style-type: none"> <li>SIGNAGE</li> <li>MOUNTING HEIGHT: 48" A.F.F.</li> </ul>	

LEGEND: HM - HOLLOW METAL, WD - WOOD, TEMP - TEMPERED  
 VIF ALL EXTG DOOR SIZES, NEW PAIRED DOOR TO MATCH EXISTING HEAD HEIGHTS.

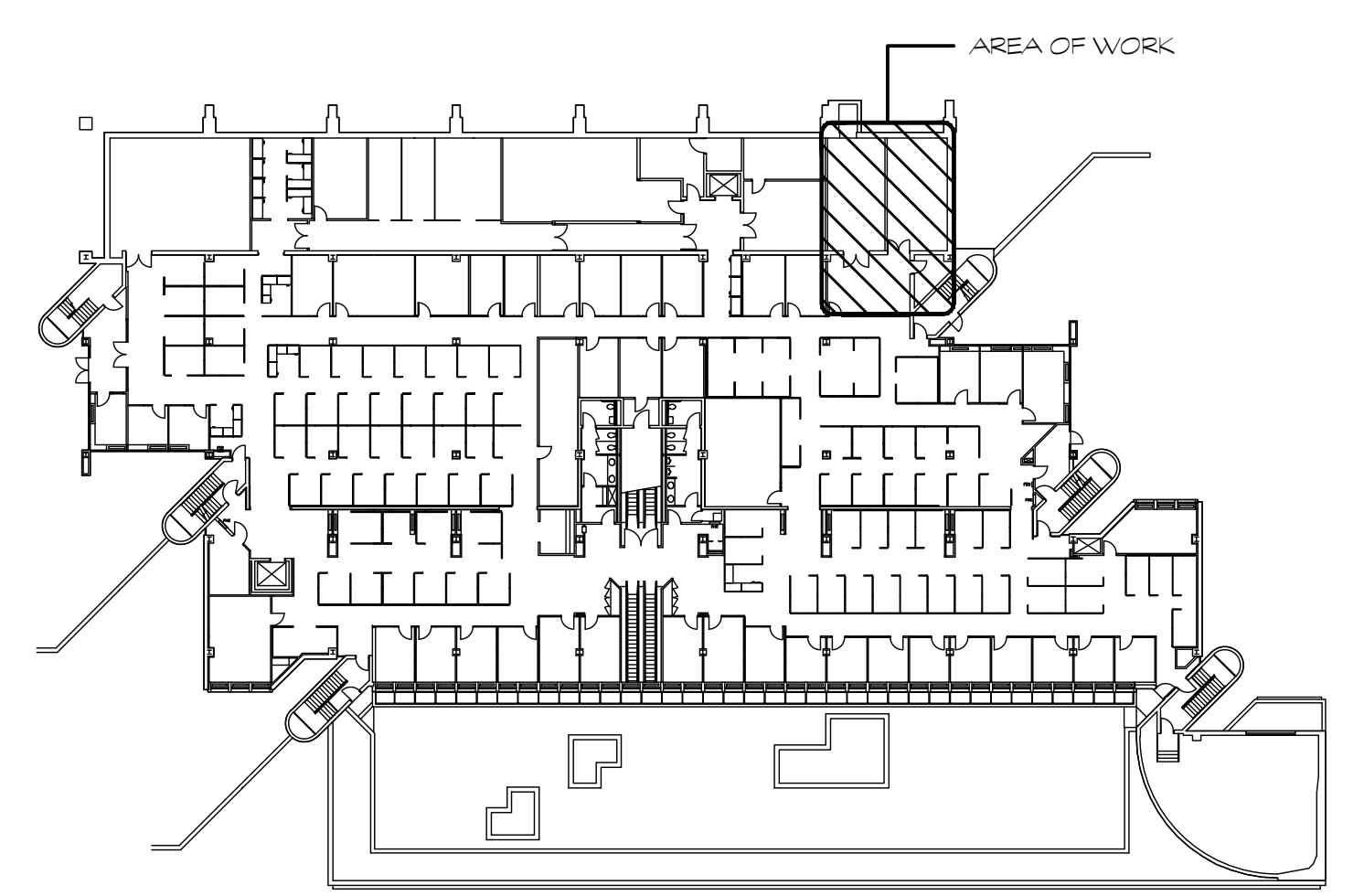
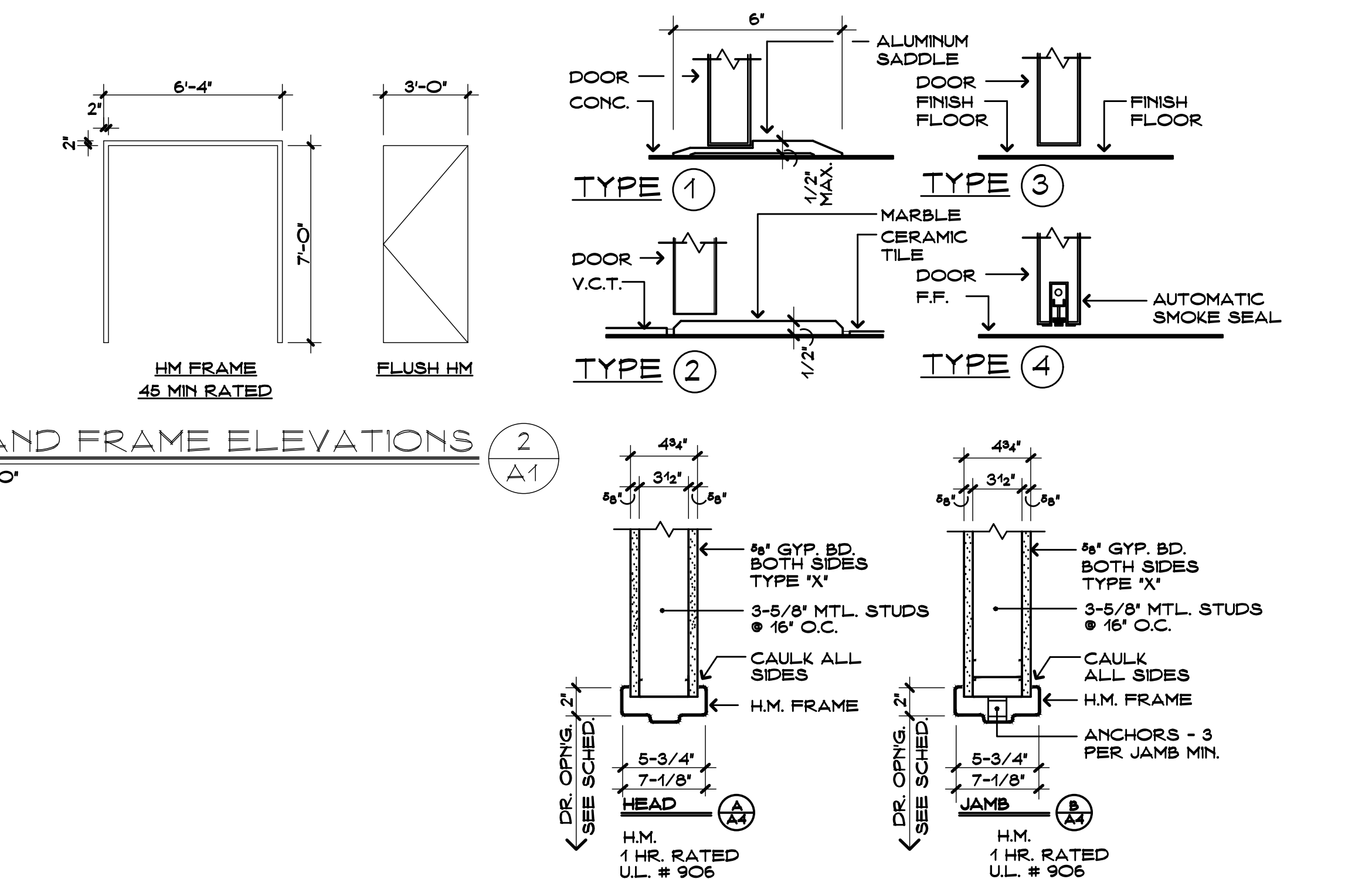
**SYMBOL LEGEND**

- EXISTING WALLS TO REMAIN.
- EXISTING TO BE REMOVED.
- NEW WALL TOOTHED INTO EXISTING ADJACENT WALL (SEE PARTITION TYPE)
- INDICATES CONSTRUCTION NOTE - SEE NOTES BELOW
- INDICATES DOOR NUMBER.
- ELEVATION OR SECTION NUMBER - DRAWING NUMBER.
- PLAN, SECTION, DETAIL OR ELEV. NUMBER.
- INDICATES DEMOLITION NOTE.
- INDICATES WINDOW TYPE.
- INDICATES WALL TYPE (SEE DETAIL A/A27)
- NEW LIGHT FIXTURE (SEE ELECTRICAL DWGS)
- NEW 2X2 METAL CEILING PLATE W/ NEW MECHANICAL CEILING GRILL (SEE MECHANICAL DWGS FOR GRILL SIZES)
- DEMO EXISTING ACOUSTICAL CEILING TILE AND EXISTING LIGHT FIXTURES (SEE ELECTRICAL DWGS FOR MORE INFO)
- DEMO EXISTING GYPSUM CEILING AND EXISTING LIGHT FIXTURES (SEE ELECTRICAL DWGS FOR MORE INFO)
- DEMO EXISTING ACOUSTICAL CEILING TILES, HARD CEILING AND EXISTING LIGHT FIXTURES (WOOD FRAMING ABOVE HARD CEILING TO REMAIN) (SEE ELECTRICAL DWGS FOR MORE INFO)
- NEW 2X2 ACOUSTICAL CEILING TILE (SEE ROOM FINISH SCHEDULE FOR TYPE) (SEE PROJ. MAN)
- NEW PAINTED GYPSUM WALL BOARD (SEE ROOM FINISH SCHEDULE) (SEE PROJ. MAN)
- AREA OF REFUGE (SEE ELECTRICAL DWGS) (SEE SIGNAGE PLANS)



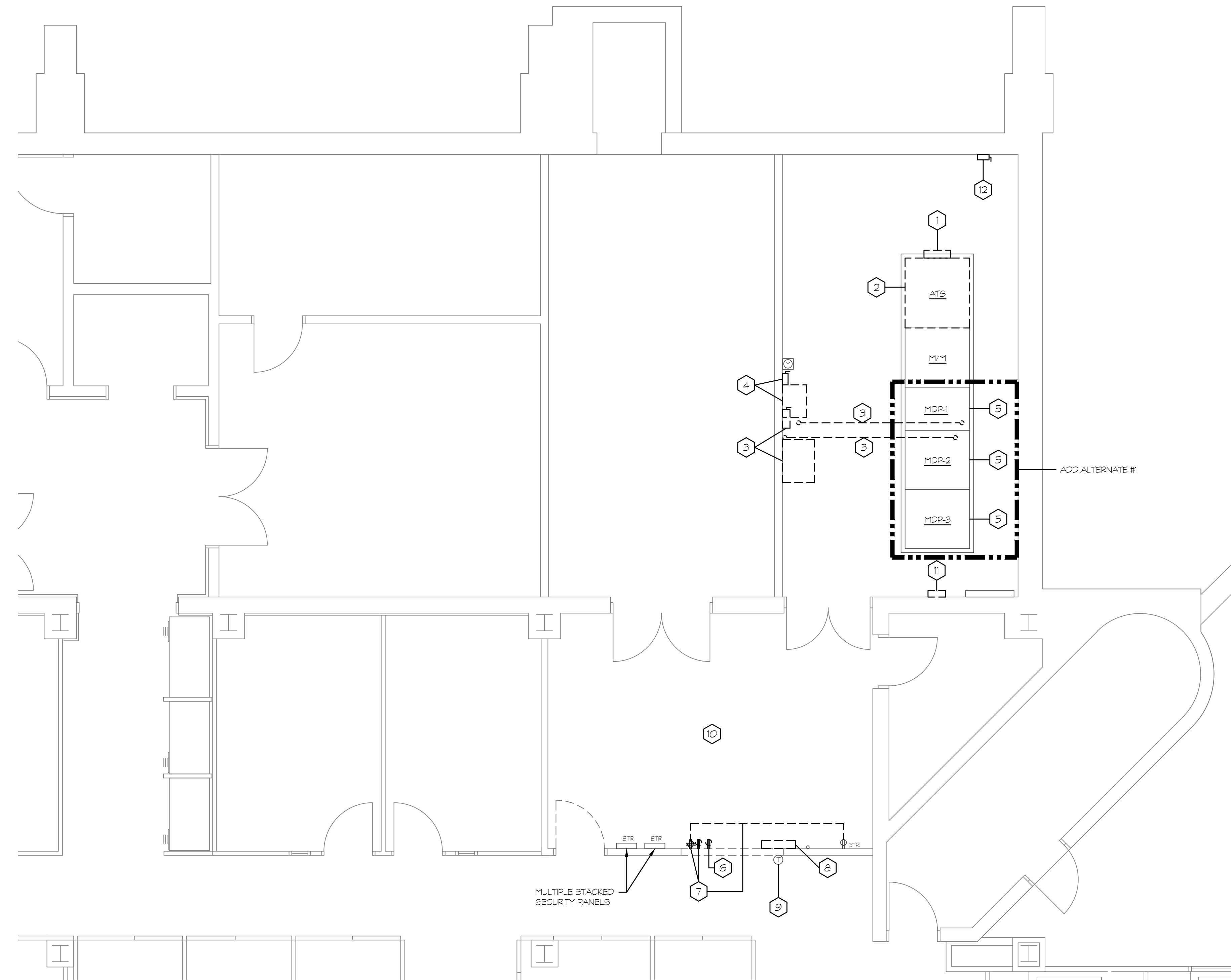
**PARTIAL THIRD FLOOR PLAN**  
 SCALE: 1/4" = 1'-0"

**DOOR AND FRAME ELEVATIONS**  
 SCALE: 1/4" = 1'-0"



**KEY PLAN**  
 SCALE: NONE





PARTIAL THIRD FLOOR DEMOLITION PLAN  
SCALE: 1/4" = 1'-0"

1  
E2

DEMOLITION KEY NOTES

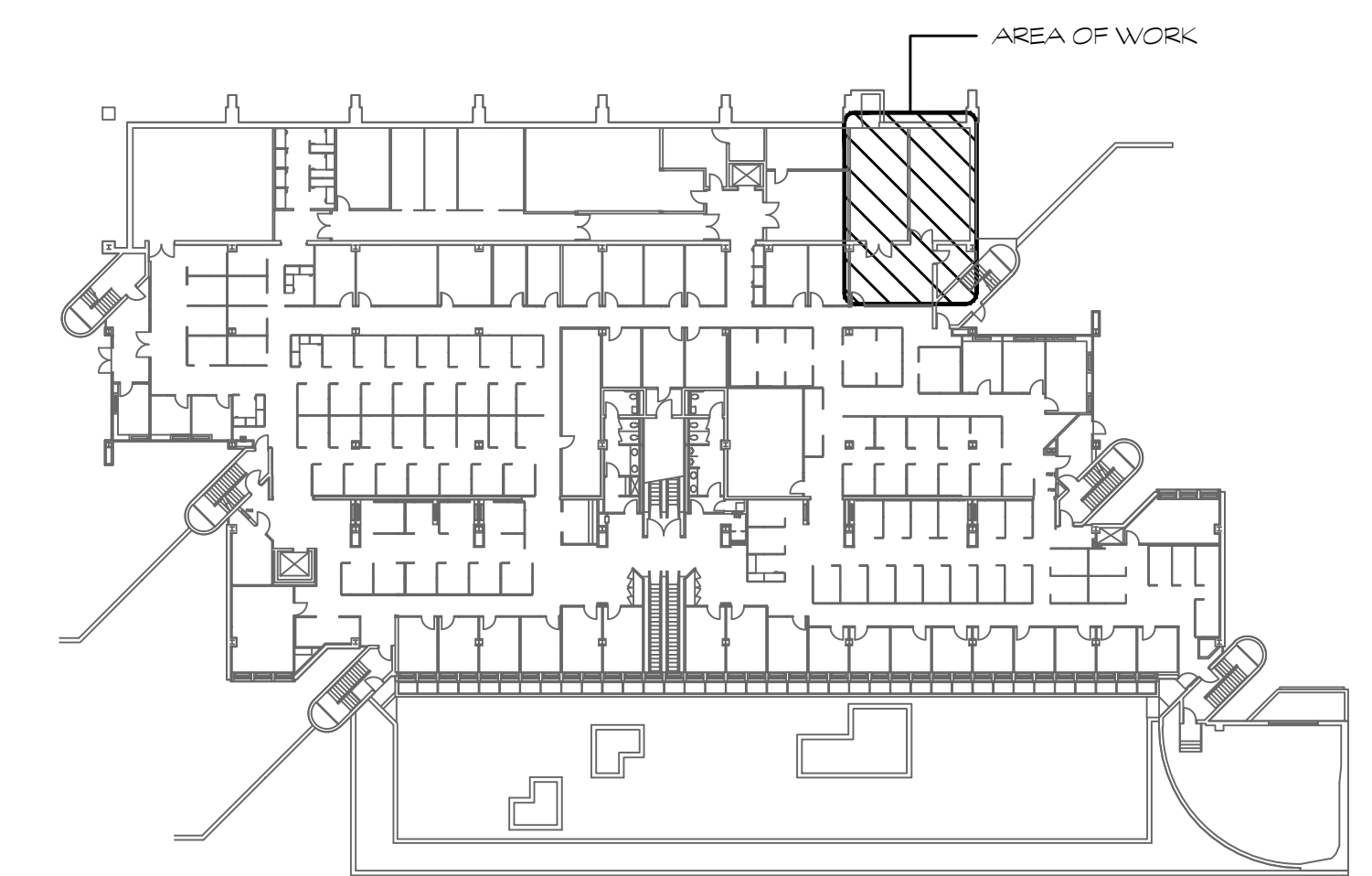
- 1 CONTRACTOR SHALL DISCONNECT AND REMOVE THE EXISTING GENERATOR LOAD SHEDDING CONTROL PANEL AND TRANSFORMER, INCLUDING BUT NOT LIMITED TO PANEL, AND ASSOCIATED CONDUIT AND WIRING. (SEE GENERAL NOTE #1)
- 2 CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING 3-PHASE 3-POLE AUTOMATIC TRANSFER SWITCH. ALL EXISTING FEEDERS (NORMAL STANDBY & LOAD) TO THE TRANSFER SWITCH SHALL BE MADE SAFE TO BE RELOCATED TO NEW CLOSED TRANSITION TRANSFER SWITCH TO BE INSTALLED. (SEE DRAWINGS E3). (SEE GENERAL NOTE #1)
- 3 CONTRACTOR SHALL DISCONNECT, REMOVE AND RELOCATE EXISTING 75 KVA TRANSFORMER, DISCONNECT SWITCH AND BOTH PRIMARY AND SECONDARY FEEDERS. THE SECONDARY FEEDER (4' CONDUIT) CURRENTLY RUNS THROUGH SWITCHBOARD SECTIONS H1 & 2 BEFORE GOING UP TO PANEL L1'S ON FLOOR ABOVE. (SEE GENERAL NOTE #1)
- 4 CONTRACTOR SHALL DISCONNECT, REMOVE AND RELOCATE EXISTING 30 KVA TRANSFORMER, DISCONNECT SWITCH AND BOTH PRIMARY AND SECONDARY FEEDERS. (SEE GENERAL NOTE #1)
- 5 CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING ACTIVE BREAKERS AND INST. ALL NEW BREAKERS ONE FOR ONE IN EXISTING GUBBLES. ALL INACTIVE BREAKERS REMOVED WILL BECOME SPACES AND ALL EXISTING SPACES WILL REMAIN. THIS WORK WILL NEED TO BE PHASED, SINCE THE SHUT DOWNS CAN ONLY BE DONE ON THE WEEKENDS (SEE GENERAL NOTE #1 & 2)
- 6 CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING SURFACE MOUNTED SPECIAL RECEPTACLE, INCLUDING BACK BOX, CONDUIT AND WIRE TO ADJACENT RECEPTACLE AND ALL ASSOCIATED MOUNTING HARDWARE
- 7 CONTRACTOR SHALL DISCONNECT, REMOVE AND RELOCATE EXISTING SURFACE MOUNTED SPECIAL RECEPTABLES AND QUAD RECEPTABLE EXCEPT EXISTING BRANCH CIRCUIT WIRING TO NEW LOCATIONS. REFER TO DRAWING E3 FOR NEW LOCATION OF RECEPTABLES. ALSO RELOCATE EXISTING CONDUIT & WIRE FROM QUAD RECEPTABLE TO DUPLEX RECEPTABLE TO AVOID NEW DOOR OPENING.
- 8 CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING SIMPLEX FIRE ALARM PANEL, AND ALL ASSOCIATED CONDUIT AND WIRING WITHIN ROOM.
- 9 CONTRACTOR SHALL DISCONNECT, REMOVE AND RELOCATE EXISTING THERMOSTAT TO ACCOMMODATE THE INSTALLATION OF NEW DOUBLE DOORS. REFER TO DRAWING E3 FOR NEW LOCATION.
- 10 CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING EQUIPMENT, FURNITURE OR OTHER ITEMS IN THIS ROOM THAT ARE NOT PERMANENTLY MOUNTED TO THE FLOOR, WALLS OR CEILING UNLESS OTHERWISE INDICATED BY THE OWNER.
- 11 CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING INACTIVE DUALSENTRY STANDBY LIGHTING PANEL AND ALL ASSOCIATED CONDUIT AND WIRING.
- 12 CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING INACTIVE DISCONNECT SWITCH AND ALL ASSOCIATED CONDUIT AND WIRING.

GENERAL NOTES

1. ALL WORK REQUIRING SHUT DOWN OF THE ELECTRICAL SERVICE CAN ONLY BE DONE ON THE WEEKENDS (AFTER 6PM FRIDAY AND RE-ENERGIZED BY TUE MONDAY) AS COORDINATED WITH THE OWNER.
2. CONTRACTOR WILL NEED TO CARRY TIME FOR APPROVED MANUFACTURER (SEE SQUARE D OR CUTLER-HAMMER) TO INVESTIGATE THE EXISTING SWITCHBOARD (DE-ENERGIZED) TO DETERMINE EXACT MOUNTING DETAIL OF NEW BREAKERS WITH EXISTING GUBBLES.
3. CONTRACTOR SHALL FURNISH A COORDINATION STUDY BASED ON NEW BREAKERS PRIOR TO FINAL APPROVAL OF ANY NEW BREAKERS.

ADD ALTERNATE #1

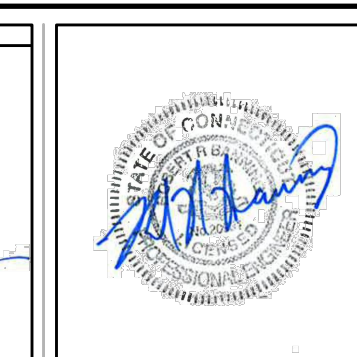
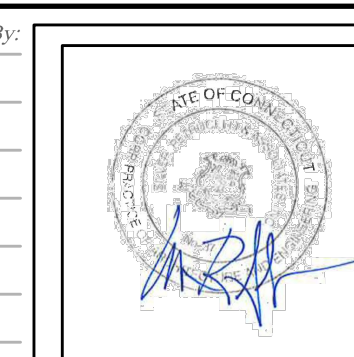
ALL WORK ASSOCIATED WITH THE REPLACEMENT OF THE EXISTING BREAKERS IN THE THREE EXISTING DISTRIBUTION SECTIONS IS TO BE PRICED SEPARATELY AS PART OF ADD ALTERNATE #1.

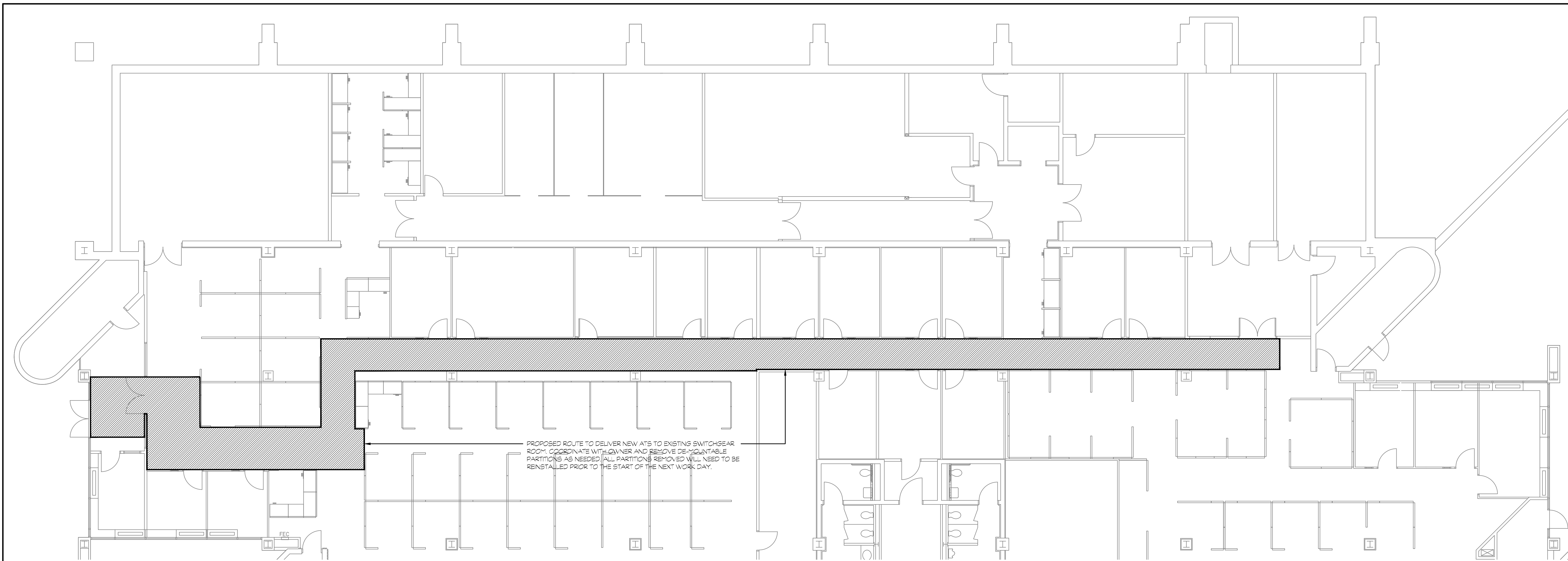


KEY PLAN  
SCALE: NONE



Revision	Description	Date	Revised By





PARTIAL THIRD FLOOR PLAN

SCALE: 1/8" = 1'-0"

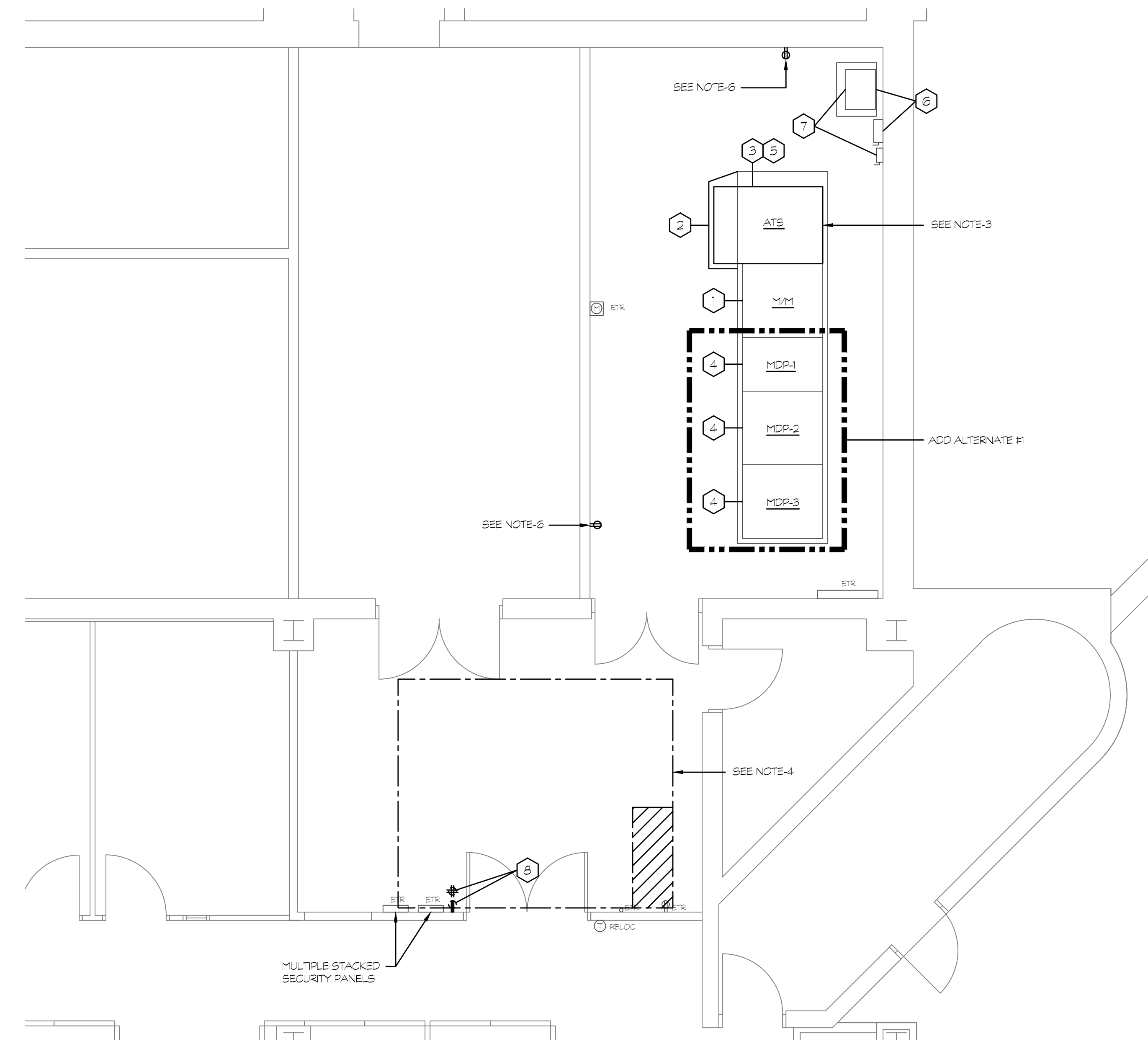
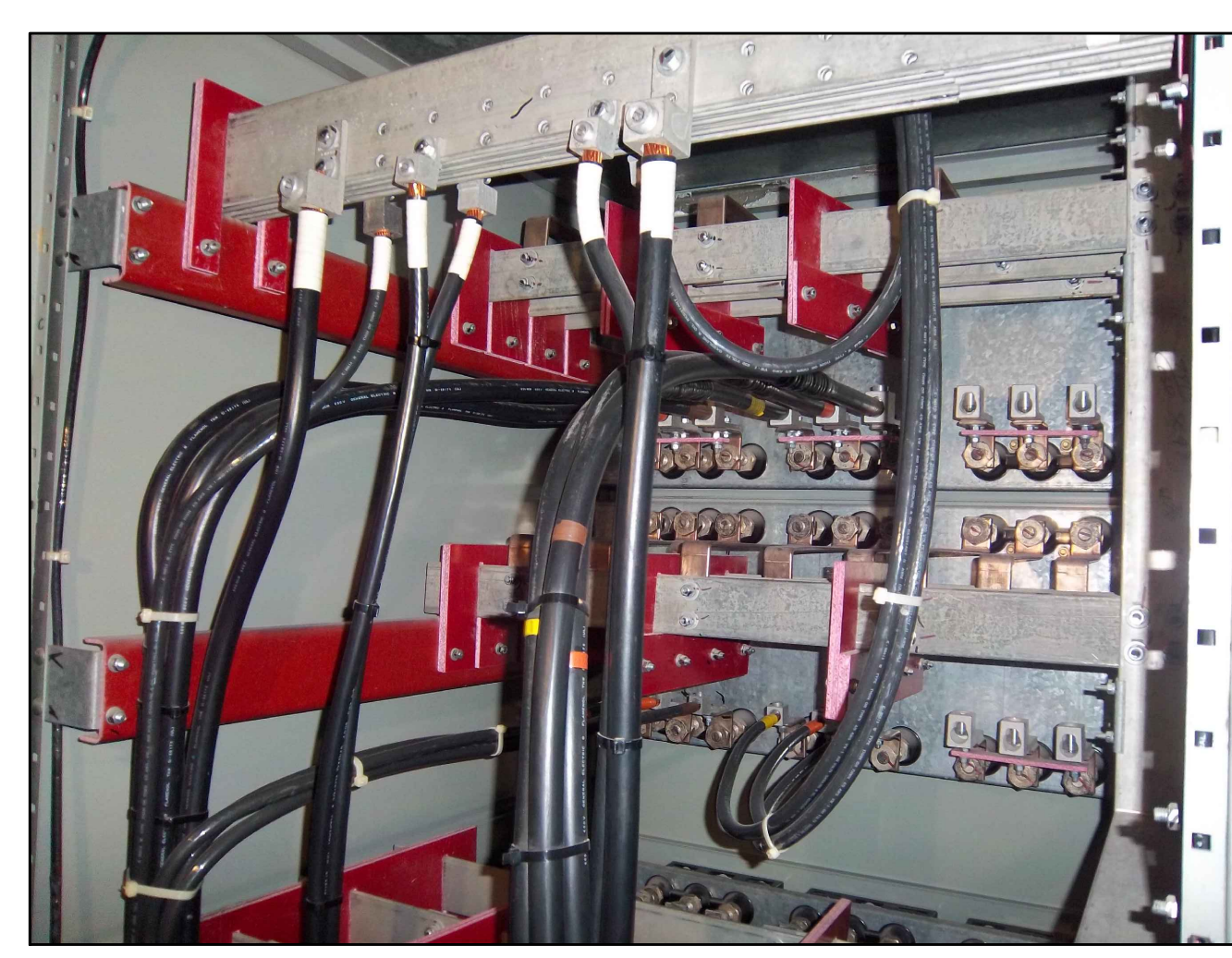
1  
E3

- ### ELECTRICAL KEY NOTES
- CONTRACTOR SHALL REMOVE EXISTING 3000 AMP FUSES IN MAIN SWITCH AND REPLACE WITH NEW 1200 AMP FUSES THAT ARE OF THE SAME TYPE AND CLASS. CONTRACTOR SHALL ALSO FILE A SERVICE REQUEST CHANGE WITH EVERSOURCE TO REDUCE THE SERVICE FROM 3000 AMPS TO 1200 AMPS. ALSO CONTRACTOR SHALL INSTALL A SIGN ON THE FRONT OF THE MAIN SWITCH INDICATING THAT THE OVERCURRENT PROTECTION FOR THE SWITCHBOARD HAS BEEN REDUCED TO 1200 AMPS. (SEE GENERAL NOTES #1 & 5). IN ADDITION THE CONTRACTOR SHALL ADD AN INFRARED PORT THAT WILL ALLOW FOR VIEWING OF ALL TERMINALS. CONTRACTOR SHALL ADD A HINGE TO THE BACK PANEL OF THE SWITCH UTILIZING THE EXISTING SCREW LOCATIONS. CONTRACTOR SHALL REMOVE ALL EXISTING METERS FROM COVER OF SWITCH AND INSTALL NEW PANELS MATCHING ORIGINAL (SAME THICKNESS & COLOR). NEW METERS WILL BE INCLUDED AS PART OF THE NEW TRANSFER SWITCH.
  - CONTRACTOR SHALL EXTEND THE EXISTING CONCRETE HOUSE-KEEPING PAD OUT A MINIMUM OF 3' BEYOND THE NEW APPROVED TRANSFER SWITCH. THE NEW PAD SHALL BE TIED BACK INTO THE EXISTING PAD WITH REBAR TO MINIMIZE THE NEW PAD PULLING AWAY FROM THE OLD PAD AND/OR CRACKING AND MATCH THE HEIGHT.
  - CONTRACTOR SHALL FURNISH AND INSTALL A NEW 1200 AMP FREE STANDING 3 POLE CLOSED TRANSITION AUTOMATIC TRANSFER SWITCH WITH BYPASS ISOLATION ALIGNED WITH THE BACK OF THE EXISTING SWITCHBOARD. RELOCATE EXISTING FEEDERS (NORMAL STANDBY & LOAD) TO THE NEW TRANSFER SWITCH THAT WERE MADE SAFE DURING THE DEVIATION PHASE. THE NEW SWITCH SHALL BE FURNISHED WITH AN INFRARED PORT THAT WILL ALLOW FOR VIEWING OF ALL TERMINALS.
  - CONTRACTOR SHALL REPLACE ALL EXISTING ACTIVE BREAKERS WITH NEW ADJUSTABLE TRIP ELECTRONIC TYPE BREAKERS ONE-FOR-ONE BY ONE OF THE FOLLOWING MANUFACTURERS: GE, SQUARE D OR CUTLER-HAMMER. CONTRACTOR WILL NEED TO HAVE MANUFACTURERS INVESTIGATE THE EXISTING SWITCHBOARD AFTER THE CONTRACT IS AWARDED TO DETERMINE MOUNTING DETAILS OF NEW BREAKERS AND CONNECTIONS TO THE EXISTING BUS BARS. CONTRACTOR WILL NEED TO FURNISH VERY DETAILED MANUFACTURERS SHOP DRAWINGS INDICATING HOW EACH BREAKER IS TO BE MOUNTED AND WIRED TO BE APPROVED BY OWNER/ARCHITECT PRIOR TO ORDERING ANY EQUIPMENT. THIS MAY REQUIRE A "POCKUP" OF THE EXISTING CUBICLE WITH THE NEW BREAKER INSTALLED TO VERIFY PROPOSED SOLUTION WORKS AND THAT THERE WILL BE NO LOG SIZE CONDUCTOR CROSSOVERS. THIS WORK WILL NEED TO BE PHASED, SINCE THE SHUT DOWNS CAN ONLY BE DONE ON THE WEEKENDS (SEE GENERAL NOTES #1, 2 & 5). REFER TO DRAWING S1 FOR ELEVATION AND SCHEDULES OF EXISTING DISTRIBUTION SECTIONS 101-1, 101-2 & 101-3. CONTRACTOR WILL HAVE AN OPPORTUNITY TO RESIGN HIS BID AFTER THE NEW BREAKER MANUFACTURER HAS INVESTIGATED THE EXISTING SWITCHBOARD AND DETERMINED THE REQUIREMENTS NEEDED TO MOUNT THE NEW BREAKERS. CONTRACTOR SHALL ADD A HINGE TO THE BACK PANEL OF THE DISTRIBUTION SECTION, UTILIZING THE EXISTING SCREW LOCATIONS. CONTRACTOR SHALL FURNISH NEW COVERS FOR EACH DISTRIBUTION SECTION BASED ON NEW BREAKER CONFIGURATION THAT MATCH THICKNESS AND COLOR OF EXISTING. PROVIDE SAMPLE OF NEW COVER MATERIAL FOR APPROVAL BY OWNER/ARCHITECT PRIOR TO START OF WORK. CONTRACTOR SHALL PAINT ALL EXISTING METAL FRAMES AND RAILS TO REMAIN TO MATCH EXISTING EQUIPMENT.
  - CONTRACTOR SHALL PROVIDE ALARM MONITORING OF THE ATs POSITION WITH EXISTING ECC. COORDINATE TIE-IN/TERMINATION LOCATION WITH OWNER.
  - CONTRACTOR SHALL RELOCATE EXISTING 75 KVA TRANSFORMER AND ASSOCIATED DISCONNECT SWITCH TO THIS LOCATION. MOUNT TRANSFORMER A MINIMUM OF 3' OFF OF THE EXISTING CONDUITS RUNNING HORIZONTALLY ALONG THE ADJACENT WALL. EXTEND BOTH PRIMARY AND SECONDARY FEEDERS CURRENTLY INSTALLED ON THE WEST WALL OF THIS ROOM TO THIS LOCATION. AS NOTED ON THE DEVIATION PLAN THE EXISTING SECONDARY FEEDER CURRENTLY RUNS THROUGH SWITCH BOARD SECTIONS 101-1 & 101-2, AND AS PART OF THE FEEDER RELOCATION SHALL BE REMOVED FROM THE SWITCH BOARD. PLUG OPENINGS IN THE TOP OF BOTH SECTIONS AFTER THE CONDUIT AND FEEDER HAS BEEN REMOVED.
  - CONTRACTOR SHALL RELOCATE EXISTING 30 KVA TRANSFORMER AND ASSOCIATED DISCONNECT SWITCH TO THIS LOCATION. MOUNT 30 KVA TRANSFORMER ON PLATFORM ABOVE THE RELOCATED 75 KVA TRANSFORMER. EXTEND BOTH PRIMARY AND SECONDARY FEEDERS CURRENTLY INSTALLED ON THE WEST WALL OF THIS ROOM TO THIS LOCATION.
  - CONTRACTOR SHALL RELOCATE EXISTING QUAD RECEPTACLE AND SPECIAL PURPOSE RECEPTACLE REMOVED DURING DEVIATION PHASE TO ACCOMMODATE INSTALLATION OF NEW DOUBLE DOORS TO THIS LOCATION (SAME ELEVATION AS PREVIOUS LOCATION). EXTEND/REROUTE EXISTING BRANCH CIRCUIT WIRING TO NEW RECEPTACLE LOCATIONS.

### ADD ALTERNATE #1

ALL WORK ASSOCIATED WITH THE REPLACEMENT OF THE EXISTING BREAKERS IN THE THREE EXISTING DISTRIBUTION SECTIONS IS TO BE PRICED SEPARATELY AS PART OF ADD ALTERNATE #1.

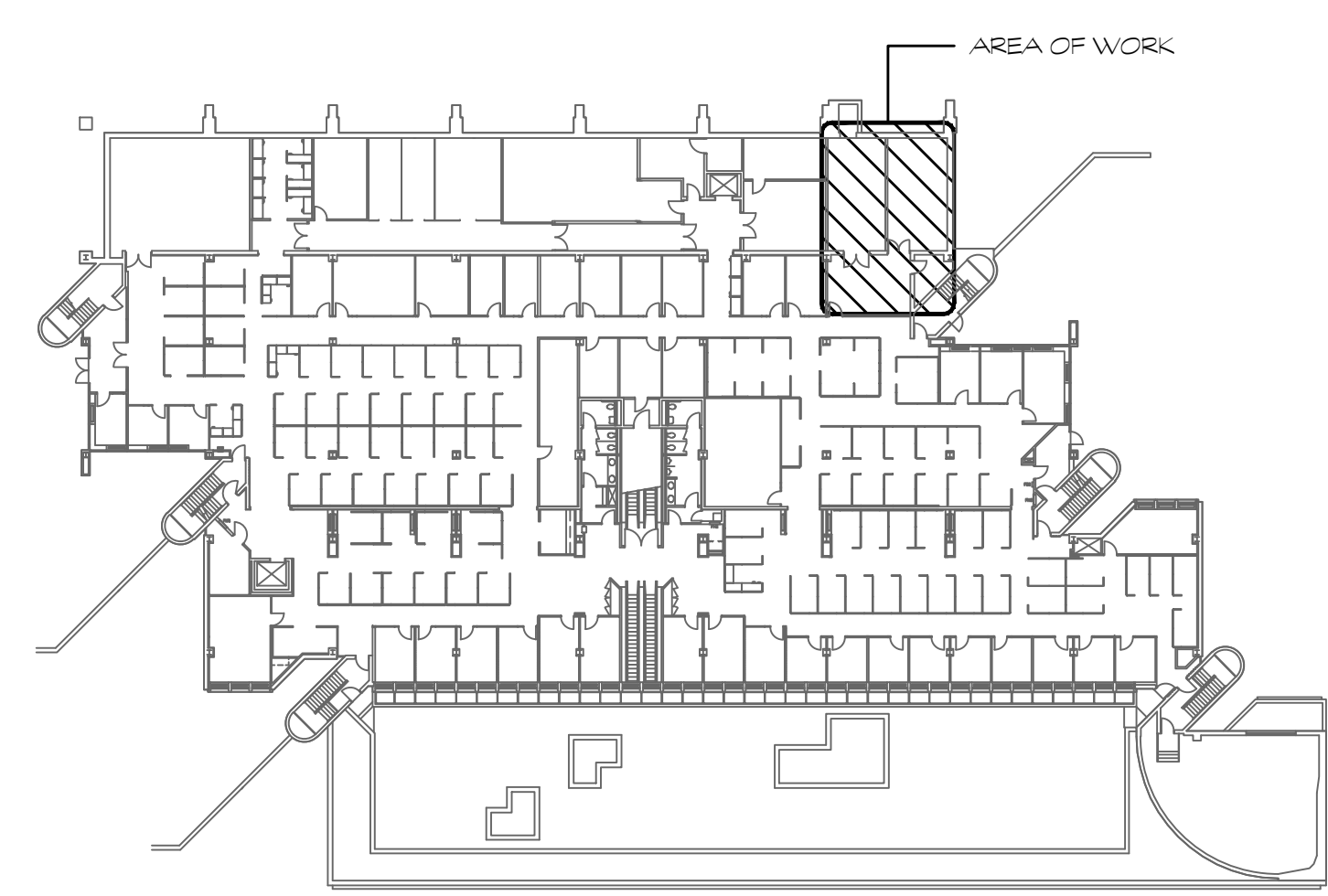
- ### GENERAL NOTES
- THIS WORK WILL REQUIRE MULTIPLE SERVICE SHUT DOWNS. CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL WITH OWNER. SHUT DOWN OF THE ELECTRICAL SERVICE SHALL ONLY BE ON THE WEEKENDS (AFTER 6PM FRIDAY AND RE-ENERGIZED BY 7AM MONDAY) AS COORDINATED WITH THE OWNER. IF WORK IS TO BE DONE DURING WINTER MONTHS, CONTRACTOR SHALL FURNISH A GENERATOR TO MAINTAIN MINIMAL MECHANICAL EQUIPMENT TO PROVIDE ENOUGH HEAT AS TO AVOID PIPES FROM FREEZING DURING THE WEEKEND SHUT-DOWN.
  - NEW BREAKERS TO BE INSTALLED SHALL BE BY ONE OF THE FOLLOWING MANUFACTURERS: GE, SQUARE D OR CUTLER-HAMMER. BREAKER MANUFACTURER WILL NEED TO PROVIDE CUSTOM MOUNTING AND CONNECTIONS TO THE EXISTING BUS BARS. THE EXACT DETAILS FOR THIS CAN NOT BE DETERMINED UNTIL AFTER THE CONTRACT IS AWARDED AND THE SERVICE CAN BE SHUT-DOWN REVEALING THE EXISTING CONDITIONS.
  - CONTRACTOR SHALL FURNISH ALL NECESSARY BRACING, ETC. FROM THE ATs MANUFACTURER TO ALLOW FOR THE INSTALLATION OF THE NEW SWITCH. THIS MAY REQUIRE THE ABILITY TO TIP AND/OR PLACE THE SWITCH HORIZONTALLY TO BE ABLE TO GET THE SWITCH THROUGH EXISTING DOOR OPENINGS.
  - TEMPORARY SHEETS OF PLYWOOD OVER OPENINGS IN FLOOR IN THIS AREA ARE TO BE REMOVED AND THE FLOOR FILLED IN WITH NEW CONCRETE. REFER TO DRAWING A1 THIS WORK IS TO BE DONE FIRST PRIOR TO ORDERING NEW ATs. SO FLOOR WILL BE SET TO REMOVE OLD SWITCH AND INSTALL NEW.
  - CONTRACTOR SHALL PROVIDE A COORDINATION STUDY BASED ON THE NEW FUSES IN THE MAIN SWITCH AND ALL NEW BREAKERS FURNISHED IN THE SWITCH BOARD. THE STUDY SHALL BE GENERATED FROM AN APPROVED SOFTWARE PROGRAM CAPABLE OF PLOTTING AND DETERMINING THE CURRENT CHARACTERISTIC CURVES. ALSO THE STUDY SHALL REPORT DEVICE SETTINGS AND RATINGS OF ALL OVERCURRENT PROTECTIVE DEVICES (BUILDING W/D) AND SHALL DEMONSTRATE SELECTIVE COORDINATION BY COMPUTER GENERATED TIME-CURRENT COORDINATION PLOTS.
  - CONTRACTOR SHALL CONNECT NEW RECEPTACLES TO EXISTING BRANCH CIRCUIT CURRENTLY SERVING RECEPTACLES IN THIS ROOM WITH 2 #12 - #12S IN 3/4".



SWITCHGEAR ROOM PART PLAN

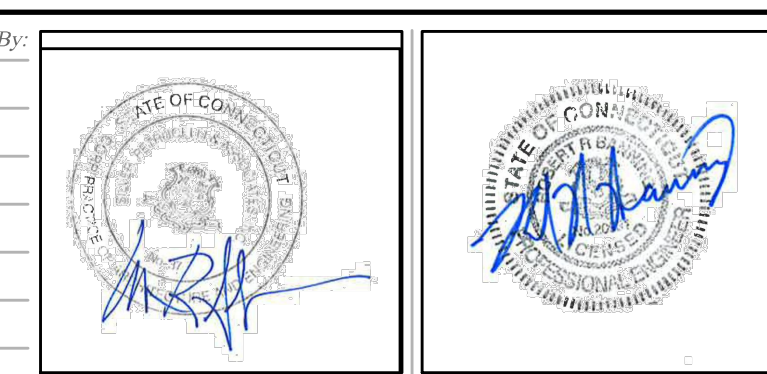
SCALE: 1/4" = 1'-0"

2  
E3



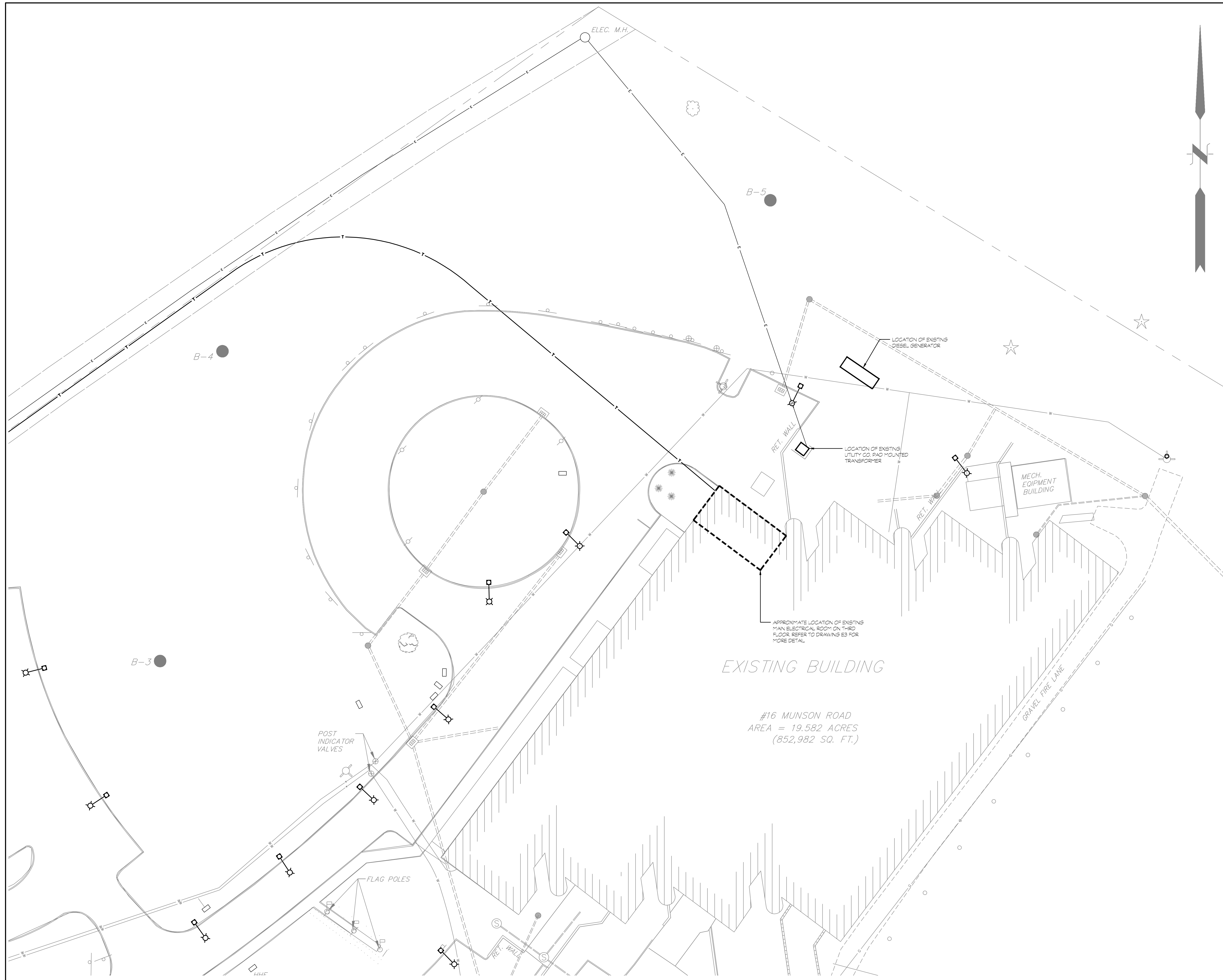
KEY PLAN  
SCALE: NONE

Revision	Description	Date	Revised By



**GENERAL NOTES**

1. SHUT DOWN OF THE ELECTRICAL SERVICE SHALL ONLY BE ON THE WEEKENDS (AFTER 5PM FRIDAY AND RE-ENERGIZED BY 7AM MONDAY), AS COORDINATED WITH THE OWNER.
2. ALL UNDERGROUND FEEDERS FROM BOTH THE DIESEL GENERATOR AND THE UTILITY COMPANY PAD MOUNTED TRANSFORMER ARE EXISTING TO REMAIN. REFER TO DRAWINGS E1 THROUGH E3 FOR MORE DETAILED INFORMATION OF SCOPE OF WORK.

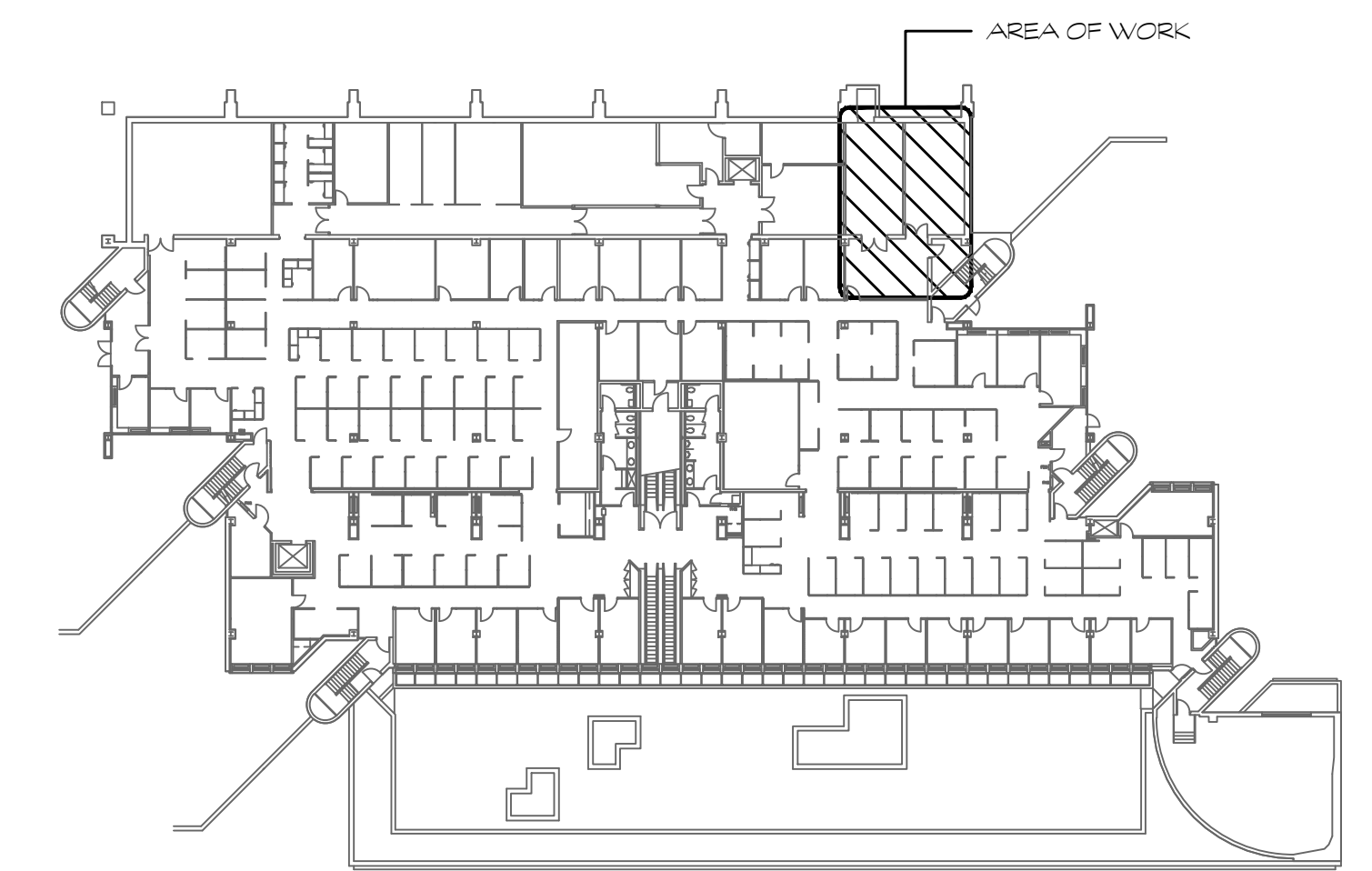


EXISTING BUILDING

#16 MUNSON ROAD  
AREA = 19.582 ACRES  
(852,982 SQ. FT.)

**PARTIAL SITE PLAN**  
SCALE: 1" = 20'-0"

1  
E3



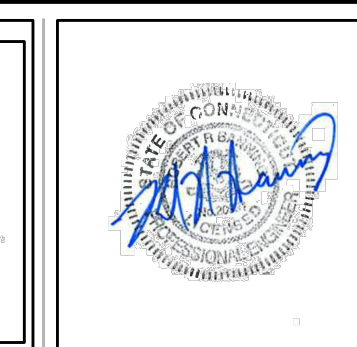
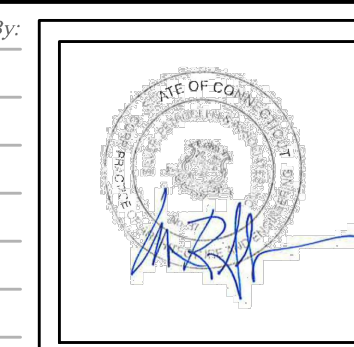
**KEY PLAN**  
SCALE: NONE

Project Title:  
**UCONN HEALTH CENTER  
ATS/SWITCHGEAR REPLACEMENT**  
16 MUNSON ROAD  
FARMINGTON, CT 06032



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silverpetrucelli.com

Revision:	Description:	Date:	Revised By:



Drawing Title:  
**SITE PLAN -  
ELECTRICAL**

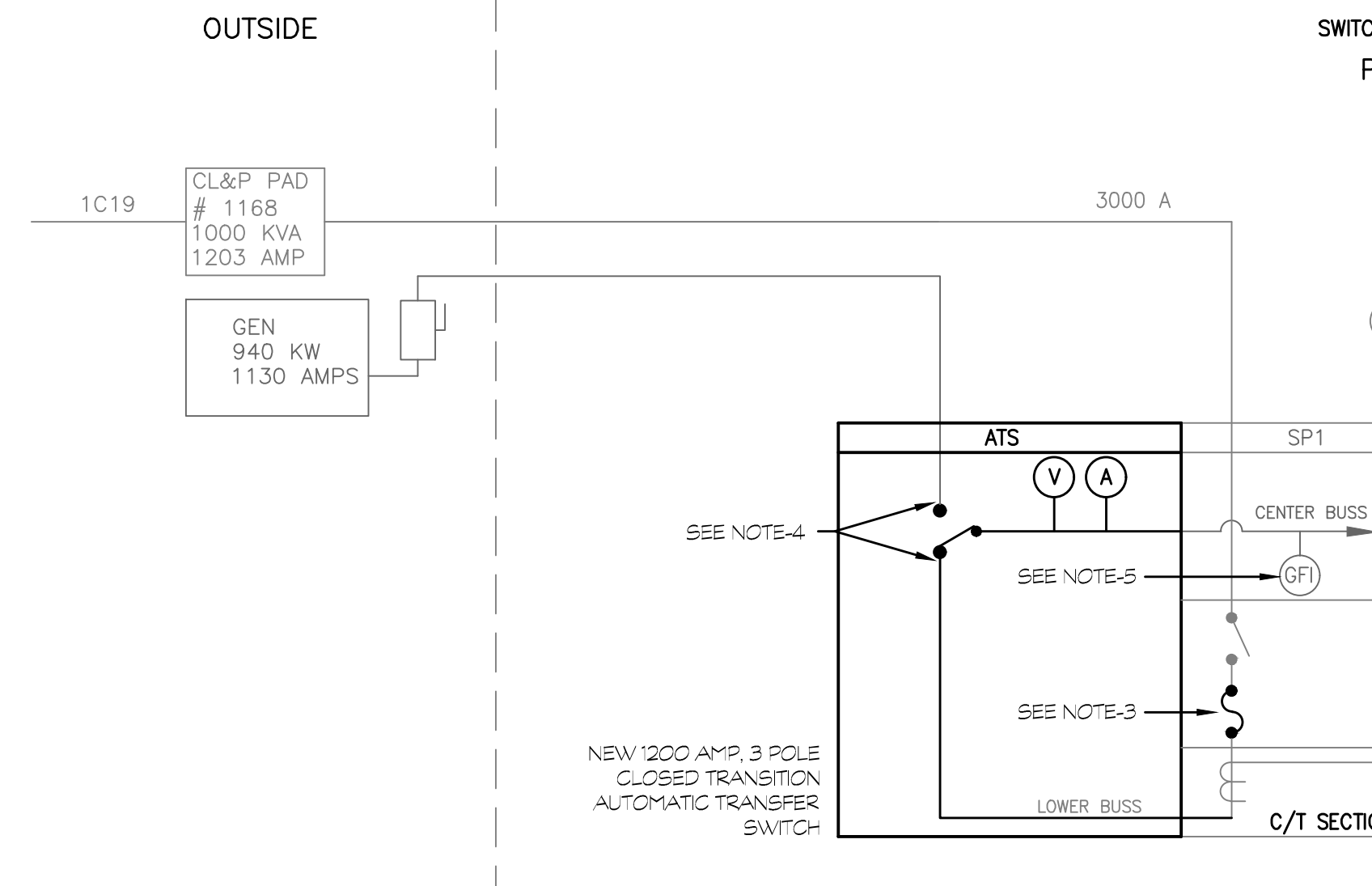
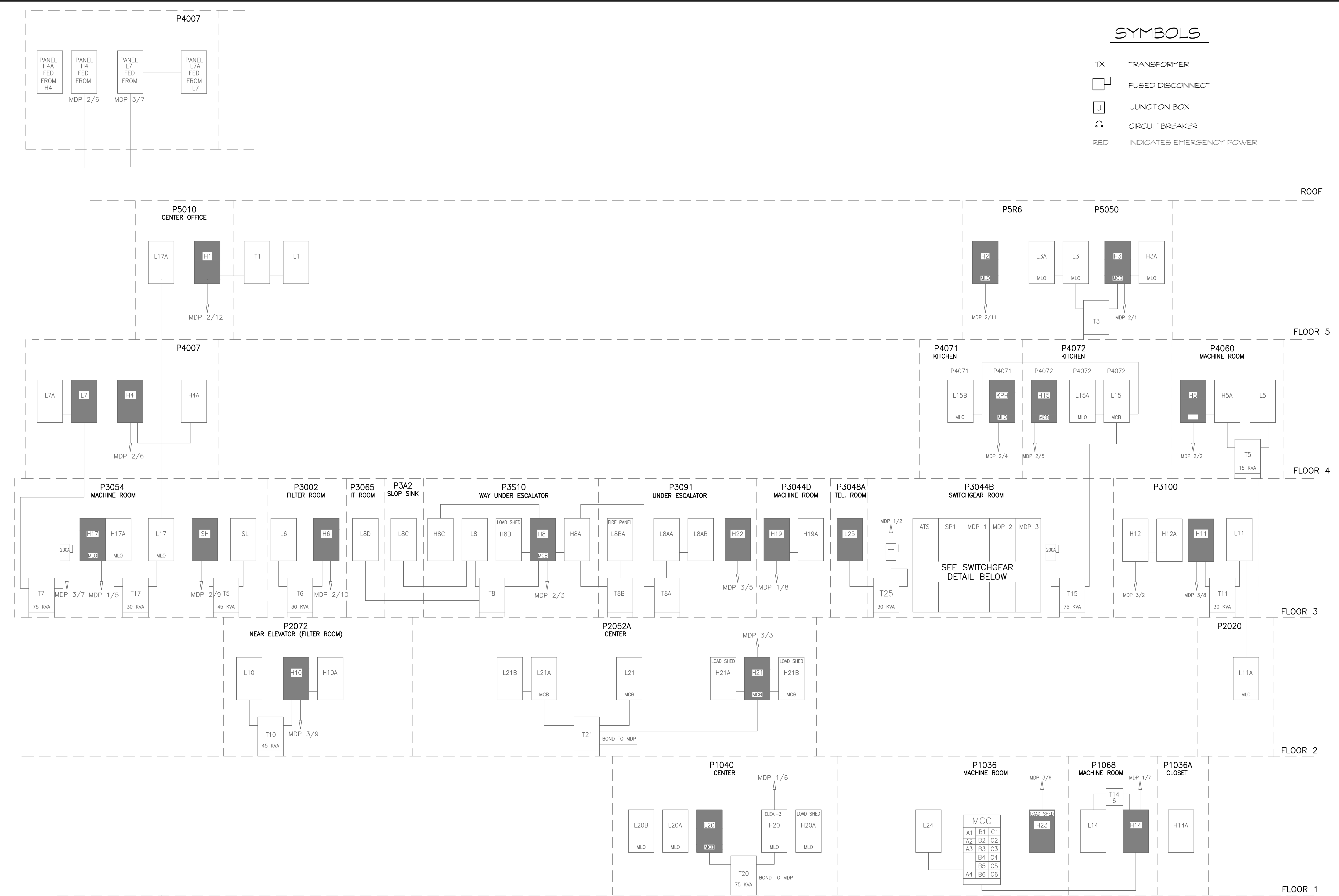
Date: MAY 24, 2019  
Scale: AS NOTED  
Drawn By: SEC  
Project Number: 13.231  
Drawing Number: **E4**

**SYMBOLS**

- TX TRANSFORMER
- [ ] FUSED DISCONNECT
- [ ] JUNCTION BOX
- [ ] CIRCUIT BREAKER
- RED INDICATES EMERGENCY POWER

**GENERAL NOTES**

1. OTHER THAN THE ATS, ALL OTHER ELECTRICAL PANELS, TRANSFORMERS AND SWITCH-BOARD ARE EXISTING TO REMAIN.
2. IN THE THREE EXISTING DISTRIBUTION SECTIONS OF THE SWITCHBOARD, ALL EXISTING FUSED SWITCHES WILL BE REPLACED WITH NEW COMPATIBLE CIRCUIT BREAKERS ONE FOR ONE.
3. THE EXISTING 3000 AMP FUSES IN THE SERVICE ENTRANCE SWITCH, SHALL BE REPLACED WITH NEW 200 AMP FUSES.
4. THE EXISTING NORMAL AND STANDBY FEEDERS (FROM THE SERVICE ENTRANCE SWITCH AND THE GENERATOR) ARE TO BE RECONNECTED TO THE NEW ATS. CONTRACTOR SHALL WIRE FROM THE LOAD SIDE OF THE NEW TRANSFER TO THE CENTER BUSS OF THE EXISTING SWITCHBOARD WITH 12 #600 KCMIL - 3 #3 OS.
5. CONTRACTOR SHALL REWORK THE EXISTING GROUND PROTECTION, SO THAT UPON ACTIVATION IT WILL ONLY TRIP THE NORMAL SERVICE PROTECTION NOT BOTH NORMAL AND STANDBY.
6. SPLICING OF EXISTING FEEDERS WILL NOT BE ALLOWED UNLESS APPROVED BY THE OWNER.



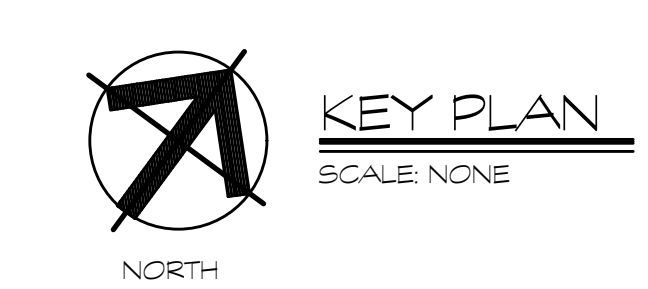
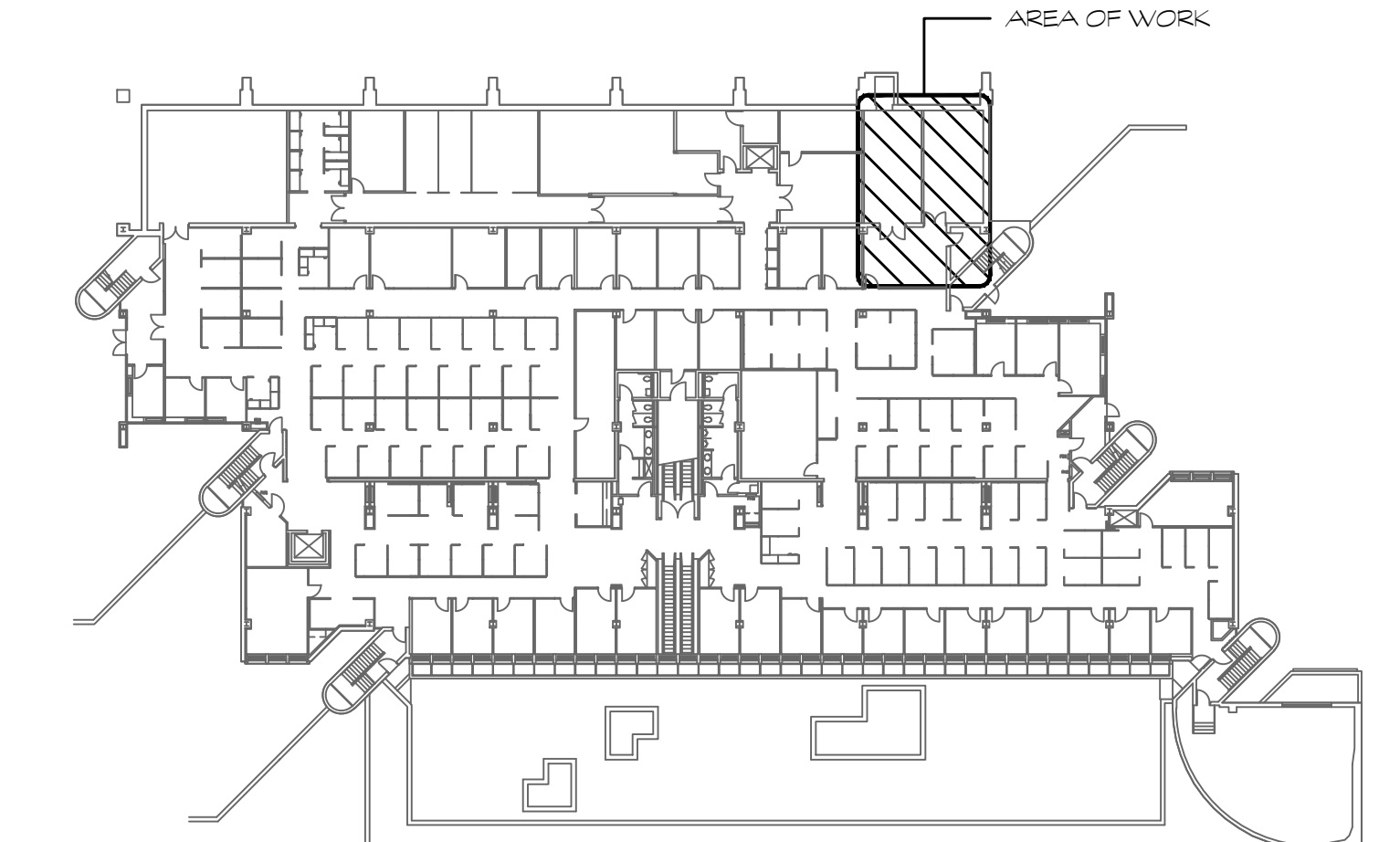
**SWITCH GEAR DETAIL P3044B**

MDP 1				MDP 2				MDP 3			
SW #	FEEDER	AMPS	ROOM	SW #	FEEDER	AMPS	ROOM	SW #	FEEDER	AMPS	ROOM
1	ELEVATOR FL. 3,4,5	70		1	H3	400	5050	1	SPARE	400	3100
2	L25	100	3048A	3	H8	400	3091	3	H21	400	2052A
3	SPARE	100		4	KPH	225	4044	4	BLANK		
4	SPARE	100		5	H15	225	4044	5	H22	225	
5	H17	800	3054	6	H4	225	4007	6	H23	225	1036
6	H20	600		7	BLANK			7	L7	225	3054
7	H14	600	1068	8	BLANK			8	H11	225	3100
8	H19	800	3044D	9	SH	100	3054	9	H10	225	2072
				10	H6	100	3002	10	BLANK		
				11	H2	100	5R6	11	BLANK		
				12	H1	100	5010	12	BLANK		

**MCC DETAIL P1036**

CUBICLE	DESCRIPTION	CR.	LOAD	AMPS	DISC.	FUSE	SIZE
A1	ENTRANCE	-	-	-	-	-	-
A2	SPACE	-	-	-	-	-	-
A3	SPACE	-	-	-	-	-	-
A4	15 KVA TRANSFORMER DISC.	1	15 KVA	20	30 A	20 A	-
A5	15 KVA TRANSFORMER	2	15 KVA	-	-	-	-
B1	PUMP P-12	3	10 HP	14	30 A	20 A	2
B2	PUMP P-13	4	10 HP	14	30 A	20 A	2
B3	PUMP P-10	5	7.5 HP	11	30 A	15 A	1
B4	PUMP P-11	6	7.5 HP	11	30 A	15 A	1
B5	SPACE	-	-	-	-	-	-
B6	SPACE	-	-	-	-	-	-
C1	COOLING TOWER #1 FAN	7	15 HP	21	60 A	25 A	2
C2	COOLING TOWER #2 FAN	8	15 HP	21	60 A	25 A	2
C3	SUPPLY AIR FAN	9	3 HP	4	30 A	7 A	0
C4	EXHAUST AIR FAN	10	2 HP	3	30 A	4 A	0
C5	SPACE	-	-	-	-	-	-
C6	SPACE	-	-	-	-	-	-

- PANEL LABELING CODE**
- L8BA BLANK 1ST PANEL
  - A BLANK 2ND PANEL
  - B BLANK 3RD PANEL
  - A BLANK 1ST TRANSFORMER
  - B BLANK 2ND TRANSFORMER
  - C BLANK 3RD TRANSFORMER
  - L FEEDER NUMBER FROM MDP
  - L 1200 AMP PANEL
  - H 2700 AMP PANEL



1 ONE LINE DIAGRAM  
SCALE NONE

