

MART

Office Building Renovations Phase 2

840 NORTH MAIN STREET LEOMINSTER, MA 01420

CONSTRUCTION DOCUMENTS SEPTEMBER 30, 2021



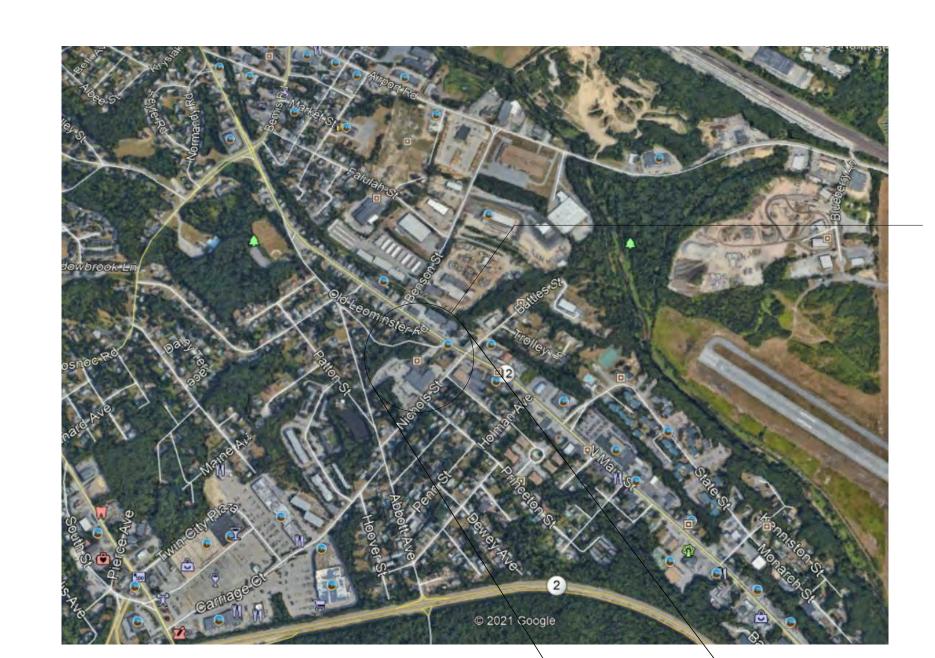
Centerpointe Corporate Park 375 Essjay Road, Suite 200

> Montachusett Regional Transit Authority 840 North Main Street Leominster, MA 01420

Williamsville, NY 14221

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Wendel Project No. 610101





PROJECT LOCATION MART
Office Building Renovations
Phase 2

840 NORTH MAIN STR

CONSTRUCTION DOCUMENTS



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REVISIONS

SHEET NAME

NUMBER

G000.2 | COVER SHEET - PHASE 2

G101.2 CODE COMPLIANCE PLANS

301.2 EXTERIOR ELEVATIONS

AD001.2 DEMOLITION PLAN

A002.2 INTERIOR PARTITION TYPES AND DETAILS

A101.2 FIRST FLOOR PLAN

A201.2 ENLARGED TOILET PLANS & PLAN DETAILS

.701.2 REFLECTED CEILING PLANS AND DETAILS
.801.2 INTERIOR ELEVATIONS AND DETAILS
.901.2 DOOR SCHEDULE AND DETAILS

PARTIAL FIRE PROTECTION PLANS

PARTIAL PLUMBING ROOF PLANS
PARTIAL PLUMBING DEMOLITION PLANS

SYMBOLS, ABBREVIATIONS AND NOTES

PARTIAL SECOND FLOOR NEW WORK PLAN
PARTIAL ROOF LEVEL NEW WORK PLAN

PARTIAL FIRST FLOOR DEMOLITION PLAN

PARTIAL ROOF LEVEL DEMOLITION PLAN

FIRST FLOOR PLANS SECOND FLOOR PLANS

DETAILS & SCHEDULES

ELECTRICAL DETAILS

ELECTRICAL DETAILS
LUMINAIRE SCHEDULE

PARTIAL SINGLE LINE DIAGRAM

ROOF PLANS

FINISH PLAN, SCHEDULE AND SPECIFICATIONS

PARTIAL EXISTING ROOF FRAMING PLAN AND DETAILS

SYMBOLS, ABBREVIATIONS AND GENERAL NOTES

PARTIAL FIRST FLOOR LIGHTING NEW WORK PLAN

FIRE PROTECTION SYMBOLS, NOTES, ABBREVIATIONS, AND DETAILS

PARTIAL FIRST FLOOR POWER AND SYSTEMS NEW WORK PLAN

PLUMBING SYMBOLS, NOTES, ABBREVIATIONS, DETAILS AND SCHEDULES

A001.2 TITLES AND SYMBOLS

G001.2 PHASING PLANS

ARCHITECTURE - PHASE 2

COVER SHE

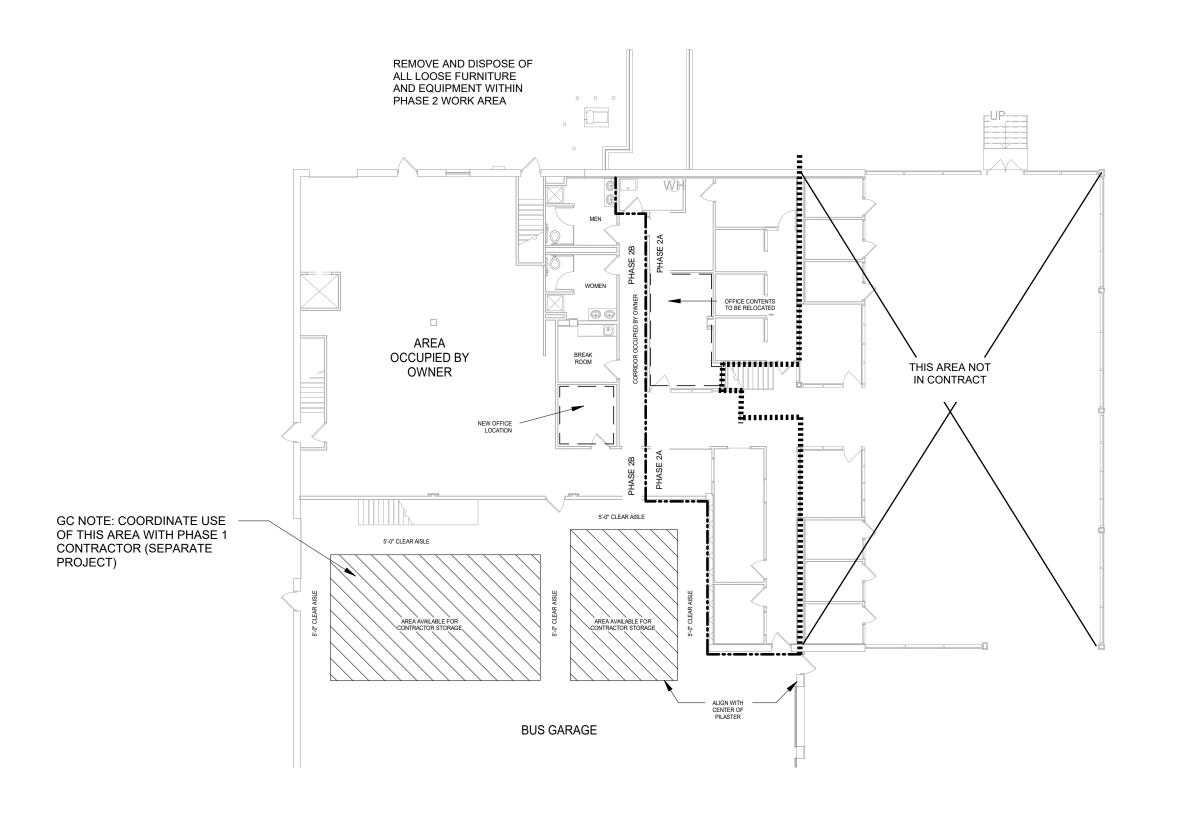
DATE 09-30-2021

SCALE

DWN. CJS CHK. DEK

PROJ. No. 610101

G000.2



PREPARATION PHASE:

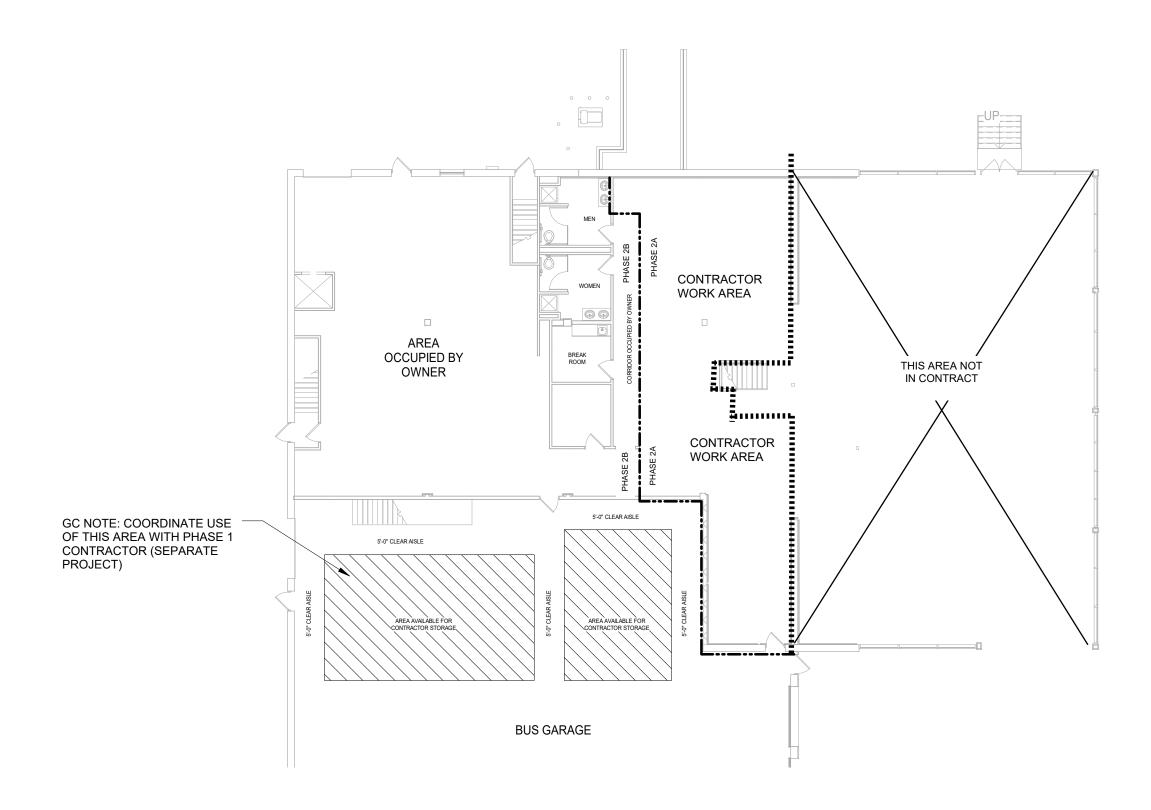
PRIOR TO THE START OF PHASE 2 CONSTRUCTION, PERFORM THE FOLLOWING TASKS:

- 1. RELOCATE INDICATED OFFICE CONTENTS TO NEW INDICATED LOCATION. 2. REMOVE AND DISPOSE OF ALL LOOSE OFFICE
- FURNITURE AND FURNISHINGS WITHIN PHASE 2A 3. CONSTRUCT DEMISING WALL SEPARATING COMPLETED OWNER-OCCUPIED AREAS FROM CONSTRUCTION AREAS. EXISTING PARTITIONS MAY BE USED AS PART OF DEMISING
- AT THE COMPLETION OF PREPARATION PHASE, START PHASE

WALL. CONSTRUCT NEW PORTIONS OF THE WALL IN

ACCORDANCE WITH NFPA 241.

PREPARATION PHASE DEMOLITION AND CONSTRUCTION (1) SCALE: 1/16" = 1'-0"



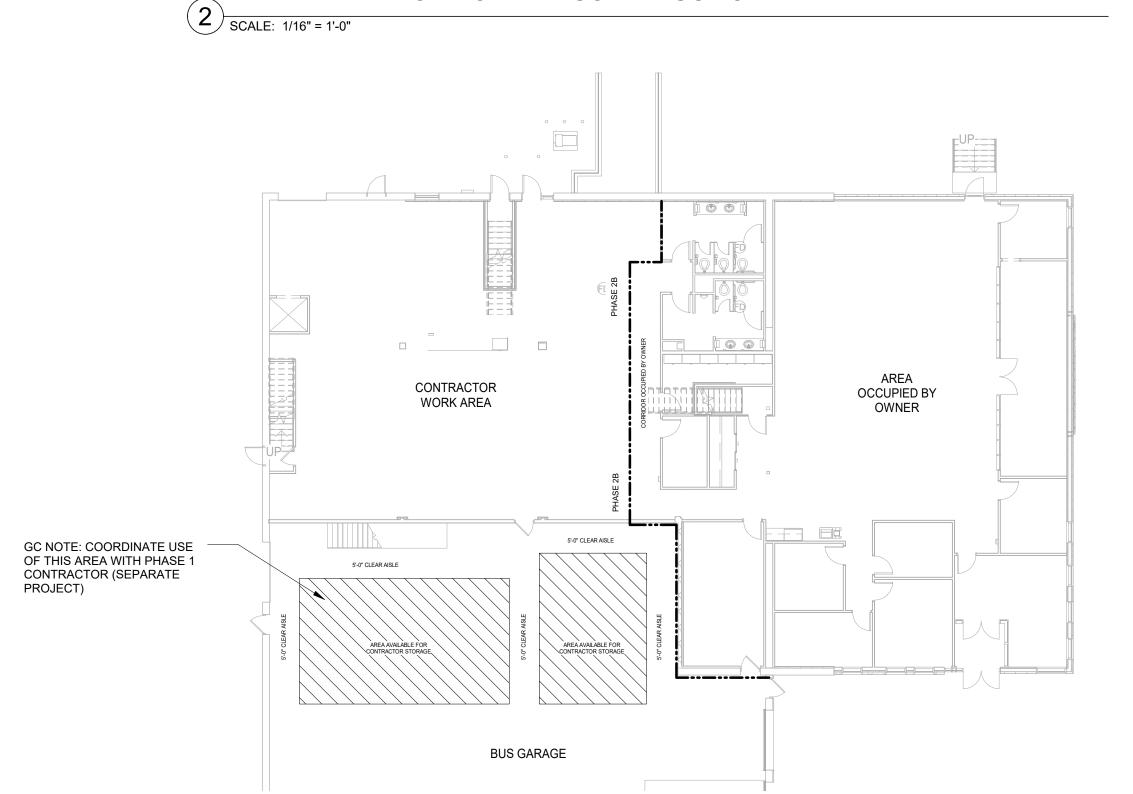
PROJECT PHASE 2A:

AS PART OF PHASE 2A, PERFORM THE FOLLOWING TASKS:

1. MAINTAIN OWNER ACCESS TO EXISTING TOILET ROOMS AND BREAK ROOM. MAINTAIN COLD WATER SUPPLY FOR EXISTING TOILET ROOMS AND BREAK ROOM. ALL ROOFTOP UNIT WORK AND MAIN DUCTWORK DISTRIBUTION SYSTEM SHALL BE PERFORMED AS PART OF PHASE 2A. COMPLETE ALL TASKS ASSOCIATED WITH WORK IN CONTRACT DOCUMENTS IN AREAS OCCUPIED BY THE CONTRACTOR AS PART OF THIS PHASE.

AT THE COMPLETION OF PHASE 2A, OWNER WILL OCCUPY COMPLETED PHASE 2A AREAS. ALLOW 7 CALENDAR DAYS FOR THE OWNER TO VACATE PHASE 2B WORK AREAS

PHASE 2A DEMOLITION AND CONSTRUCTION



PHASE 2B DEMOLITION AND CONSTRUCTION

3 SCALE: 1/16" = 1'-0"

PROJECT PHASE 2B:

AS PART OF PHASE 2B, PERFORM THE FOLLOWING TASKS:

- 1. RELOCATE DEMISING WALL AS REQUIRED FOR CONSTRUCTION OF PHASE 2B.
- 2. COMPLETE ALL TASKS ASSOCIATED WITH WORK IN CONTRACT DOCUMENTS IN AREAS OCCUPIED BY THE
- CONTRACTOR AS PART OF THIS PHASE. 3. UNTIL COMPLETION OF PHASE 2B, IT WILL BE ACCEPTABLE
- TO PROVIDE COLD WATER ONLY TO TOILET ROOMS. 4. FINISH WORK IN TRANSITIONAL AREAS (CORRIDORS AND
- AREAS ABUTTING DEMISING WALL) MAY BE PERFORMED AT THE COMPLETION OF PHASE 2B, PROVIDED WORK DOES NOT CREATE A DISTURBANCE FOR OWNER'S OPERATIONS.

CORRELATION AND INTENT:

CORRELATION AND INTENT OF THE CONTRACT DOCUMENTS: THE INTENT OF THE CONTRACT DOCUMENTS IS TO INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK BY THE CONTRACTOR. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL; PERFORMANCE BY THE CONTRACTOR SHALL BE REQUIRED ONLY TO THE EXTENT BEING NECESSARY TO PRODUCE THE INDICATED RESULTS. BY SUBMITTING A BID, THE CONTRACTOR SHALL COORDINATE ALL TRADES AND MAINTAIN CONSISTENCY WITH THE DESIGN INTENT. THE CONTRACTOR SHALL NOT TAKE ADVANTAGE OF ANY APPARENT ERROR OR OMISSION IN THE PLANS OR SPECIFICATIONS OR OF ANY DISCREPANCY BETWEEN THE PLANS AND SPECIFICATIONS.

EXISTING CONDITIONS:

THE DOCUMENTS REFLECT CONDITIONS REASONABLY INTERPRETED FROM THE EXISTING VISIBLE CONDITIONS, OR FROM DRAWINGS OR INFORMATION FURNISHED BY THE OWNER. IT IS NOT THE INTENT OF THE ARCHITECT TO CERTIFY THAT EXISTING AND UNFORESEEN CONDITIONS ARE AS NOTED IN THE OWNER PROVIDED DOCUMENTS. THE CONTRACTOR SHALL VISIT THE SITE AND BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND THE IMPACT ON THE SCOPE OF THE WORK. AND DISCREPANCIES BETWEEN EXISTING AND INDICATED CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE ARCHITECT. WORK SHALL PROCEED ONLY WITH THE ARCHITECT'S APPROVAL.

Office Building Renovations Phase 2

> 840 NORTH MAIN STREET LEOMINSTER, MA 01420

CONSTRUCTION **DOCUMENTS**



Wendel Architecture, P.C

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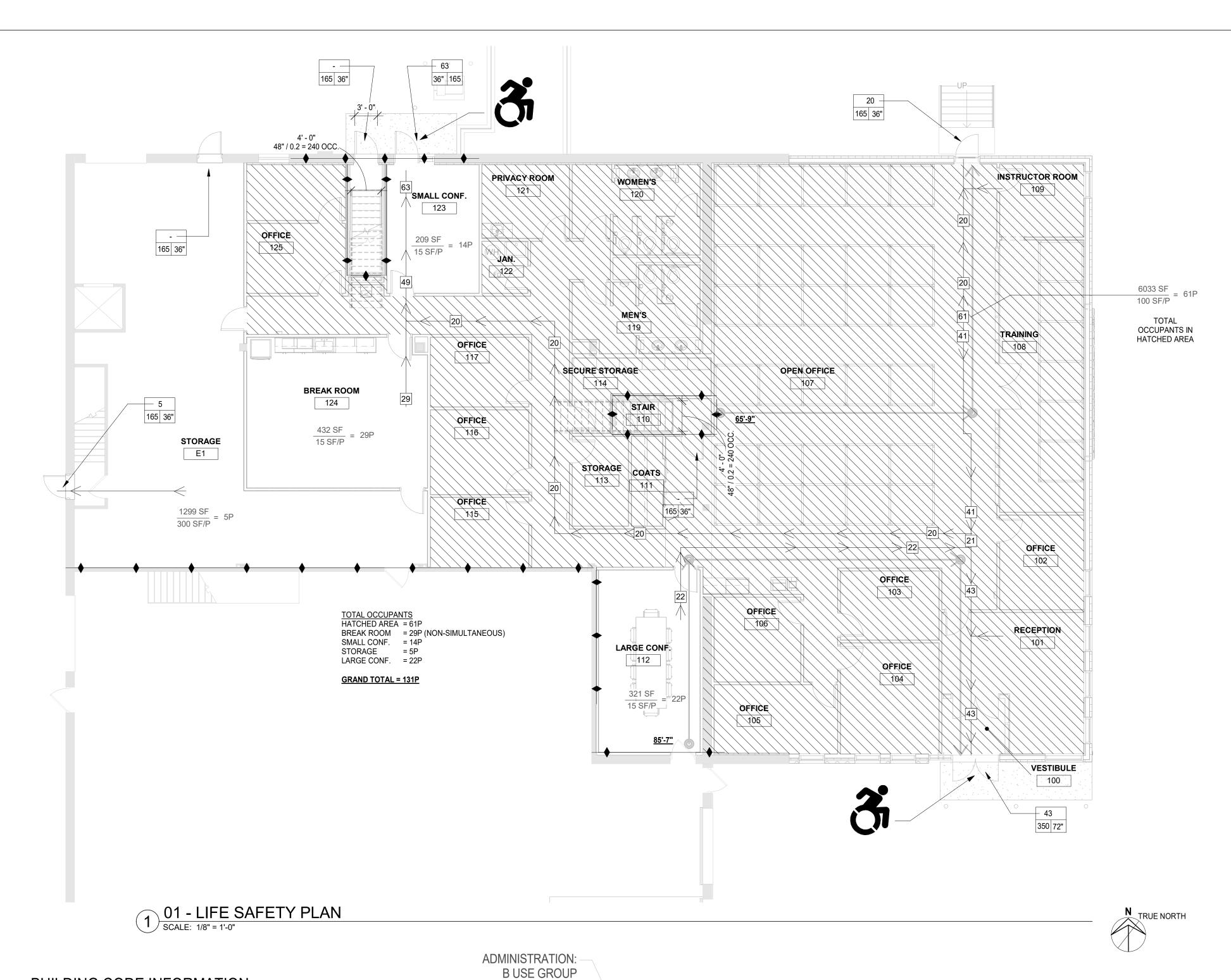
REVISIONS DWG. TITLE

PHASING PLANS

SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING. IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY DATE 09-30-2021 SCALE 1/16" = 1'-0"

DWG. No.

DWN. CJS CHK. DEK PROJ. No. 610101



8,656 SF

ADMIN. AREA -NOT AFFECTED

BY PROJECT

1,430 SF

PHASE 2

1 HR SEPARATION

(EXISTING)

BUS STORAGE BUILDING:

S-2 USE GROUP

31,199 SF

USE GROUP AND AREAS - FIRST FLOOR

- PROJECT

7,226 SF

WORK AREA

VEHICLE WASH BAY:

S-1 USE GROUP

1,160 SF

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PHASE 1

(N.I.C.)

BUILDING CODE INFORMATION:

LEOMINSTER, MA 01420

1. 780 CMR - MASSACHUSETTS STATE BUILDING CODE, NINTH EDITION

PROJECT WAS REVIEWED AS A SINGLE BUILDING, MIXED SEPARATED USES: B BUSINESS (ADMINISTRATION AREAS), S-1 STORAGE (BUS WASH AREA),

ALTERATION LEVEL 2 (EXISTING BUILDING IS TYPE II-B CONSTRUCTION)

COMPLYING

COMPLYING

COMPLYING

COMPLYING

ADDED (1) EXIT

COMPLYING

COMPLYING

COMPLYING

COMPLYING

COMPLYING

ADDED (1) EXIT

ADDED (1) ACCESSIBLE EGRESS

ADDED (1) ACCESSIBLE EGRESS

BUILDING ELEMENTS AND MATERIALS (702): COMPLYING

BUILDING ELEMENTS AND MATERIALS (803): COMPLYING

S-2 STORAGE (BUS PARKING AND ANCILLARY STORAGE AREAS).

THE PROJECT CONSISTS OF ALTERATIONS TO THE FIRST FLOOR OF AN EXISTING MIXED USE

BUILDING, INCLUDING STRUCTURAL, MECHANICAL, ELECTRICAL, FIRE ALARM, PLUMBING AND

PORTIONS OF THE EXISTING BUILDING WILL BE OCCUPIED DURING CONSTRUCTION.

2. 527 CMR 1.00 - MASSACHUSETTS COMPREHENSIVE FIRE SAFETY CODE, 2015 EDITION

PROJECT LOCATION: 840 NORTH MAIN STREET

3. 2015 INTERNATIONAL BUILDING CODE (IBC)

8. NFPA 1, FIRE CODE, 2015 EDITION 9. NFPA 70, NATIONAL ELECTRIC CODE

FIRE PROTECTION SYSTEMS: FIRE ALARM SUPPRESSION SYSTEM:

SMOKE CONTROL SYSTEM:

OCCUPANCY CLASSIFICATION:

WORK AREA CALCULATION:

FIRE PROTECTION (703):

ACCESSIBILITY (705):

REROOFING (706):

STRUCTURAL (707):

MEANS OF EGRESS (704):

LEVEL 2 REQUIREMENTS:

FIRE PROTECTION (804): MEANS OF EGRESS (805):

ACCESSIBILITY (806):

STRUCTURAL (807):

ELECTRICAL (808):

MECHANICAL (809):

PLUMBING (810):

ENERGY CONSERVATION (708):

ENERGY CONSERVATION (811):

SPECIAL USE AND OCCUPANCY (802):

CODE MODIFICATIONS:

SPRINKLERED:

SUPERVISION:

4. 2015 INTERNATIONAL EXISTING BUILDING CODE (IEBC) 5. 2015 INTERNATIONAL MECHANICAL CODE (IMC)

11.2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

AUTOMATIC FIRE DETECTION SYSTEM: YES

IEBC CLASSIFICATION OF WORK (Chapter 5)

WORK AREA (FIRST FLOOR): 7,226 SF

WORK AREA / BUILDING AREA: 16%

BUILDING AREA (FIRST FLOOR):46,015 SF

6. 248 CMR 10.00 - UNIFORM STATE PLUMBING CÓDE (USPC) 7. 2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)

10.521 CMR - ARCHITECTURAL ACCESS BOARD REGULATIONS

PROJECT SCOPE:

FIRE PROTECTION SYSTEMS.

BUILDING AND FIRE CODES:

APPLICABLE CODES:

FIRE PROTECTION (CHAPTERS 6, 7, 8 AND 9)

FIRE RESISTANCE RATED CONSTRUCTION (TABLES 601 AND 602) CONSTRUCTION CLASSIFICATION

ELEMENT	REQUIRED	PROVIDED
STRUCTURAL FRAME	0 HR	0 HR
INTERIOR BEARING WALLS	0 HR	0 HR
INTERIOR NON-BEARING WALLS	0 HR	0 HR
FLOOR CONSTRUCTION	0 HR	0 HR*
ROOF CONSTRUCTION	0 HR	0 HR
EXTERIOR WALL (TABLE 602)		
FIRE SEPARATION , 5'-0"	N/A	
FIRE SEPARATION >= 5'-0", <10'-0"	N/A	
FIRE SEPARATION >=10'-0", < 30'-0"	0 HR	0 HR
FIRE SEPARATION > 30'-0"	0 HR	0 HR
SHAFT ENCLOSURES	1 HR	1 HR
INTERIOR EXIT STAIRWAY/ RAMP	N/A	
EXIT ACCESS STAIRWAY/ RAMP	N/A	
ATRIUMS	N/A	
INCIDENTAL USES	1 HR	1 HR
MIXED OCCUPANCY AND FIRE AREA SEPARATIONS	1 HR	1 HR
VERTICAL OPENINGS	N/A	
FIRE WALLS	N/A	
FIRE PARTITIONS	N/A	
SMOKE BARRIERS	N/A	
SMOKE PARTITIONS	N/A	

* 1 HR AT USE GROUP SEPARATION (S2/B) AT BASEMENT

EXTERIOR WALL OPENINGS (IBC 705.8) SPRINKLERED BUILDING

PROTECTED AND UNPROTECTED	ALLOWED	PROVIDED
FIRE SEPARATION , 3'-0" - 5'-0"	15%	TBD
FIRE SEPARATION 5'-0" - 10'-0"	25%	TBD
FIRE SEPARATION 10'-0" - 15'-0"	45%	TBD
FIRE SEPARATION 15'-0" - 20'-0"	75%	TBD
FIRE SEPARATION > THAN 20'-0"	NO LIMIT	TBD
		1

MEANS OF EGRESS (CHAPTER 10)

OCCUPANT LOAD, FIRST FLOOR, AREAS AFFECTED BY PROJECT

TOTAL OCCUPANTS HATCHED AREA = 61P

BREAK ROOM = 29P (NON-SIMULTANEOUS) SMALL CONF. = 14P

STORAGE = 5P

LARGE CONF. = 22P

GRAND TOTAL = 131P

FOR PURPOSES OF PLUMBING FIXTURE COUNT, BREAK ROOM OCCUPANCY IS NON-SIMULTANEOUS, RESULTING IN THE FOLLOWING PLUMBING CODE OCCUPANCY:

TOTAL EGRESS OCCUPANTS: 131 NON-SIMULTANEOUS USES: 29 PLUMBING CODE OCCUPOANCY: 102

MEANS OF EGRESS (CHAPTER 10)

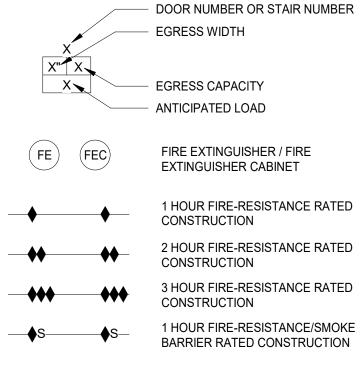
STAIR WAYS: OTHER EGRESS COMPONENTS

131 OCCUPANTS OCCUPANT LOAD - FIRST FLOOR

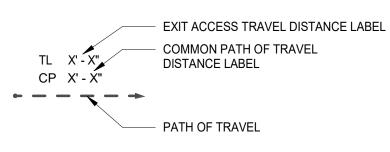
4, FOR A TOTAL OF 660 OCC. 1, FOR A TOTAL OF 350 OCC. TOTAL EGRESS CAPACITY - FIRST FLOOR 1,010 OCCUPANTS

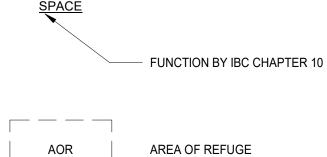
GENERAL MEANS OF EGRESS - FIRST FLOOR ACCESSIBLE MEANS OF EGRESS REQUIRED

250 LF 20 LF



CEILING WITH THE FOLLOWING: FIRE BARRIER - PROTECT AL LOPENINGS. SPACE STENCIL WITHIN 8'-0" OF THE END OF EACH WALL, AND AT INTERVALS NOT EXCEEDING 20'-0". LETTERS TO BE







PLUMBING FIXTURE COUNTS

				<u> </u>	1	
NUMBER OF OCCUPANTS	102					
	REQUIRED USE GROUP B		SUBTOTAL REQUIRED	TOTAL REQUIRED	SUBTO PROVI FIRST F	DED
WATER CLOSETS, MALE	1 per	25		_		
	2.28		2.28	3	2	3
URINALS, MALE					1	
	1 per	20	0.05		3	
WATER CLOSETS, FEMALE	2.8	5	2.85	3		
	1 per	40	4.40			
LAVATORIES, MALE	1.4	3	1.43	2	2	
	1 per	40		_	_	
LAVATORIES, FEMALE	1.43		1.43	2	2	
BATHTUBS/SHOWERS			0.0	0.0	0.0	
DRINKING FOUNTAINS			1.0	1	1	
SERVICE SINKS			1.0	1	1	



0.3 INCHES PER OCCUPANT 0.2 INCHES PER OCCUPANT

CAPACITY OF EGRESS COMPONENTS, FIRST FLOOR

36" WIDE DOORS (165 OCC. EA.) 72" WIDE DOORS (350 OCC. EA.)

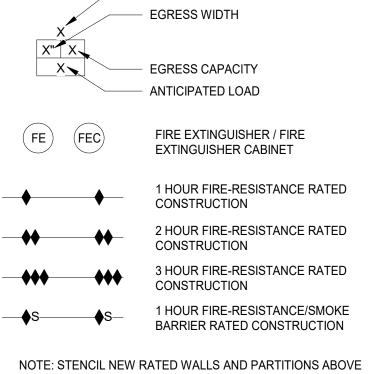
NUMBER OF EXITS/ EXIT ACCESS - FIRST FLOOR

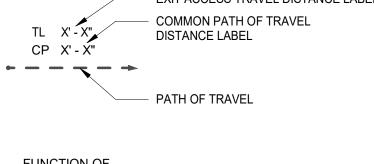
REQUIRED 2 PROVIDED 5

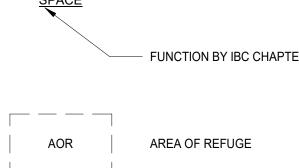
ACCESSIBLE MEANS OF EGRESS PROVIDED

MAXIMUM TRAVEL DISTANCE (IBC 1017) PROVIDED TRAVEL DISTANCE MAXIMUM COMMON PATH OF TRAVEL (IBC 1006.2.1) 75 LF PROVIDED COMMON PATH OF TRAVEL MAXIMUM DEAD ENDS DEAD ENDS PROVIDED 18'-9"

CODE SYMBOL LEGEND









NUMBER OF OCCUPANTS	102					
	REQUIRED USE GROUP B		SUBTOTAL REQUIRED	TOTAL REQUIRED	· · · · FROVIDED	
WATER CLOSETS, MALE	1 per	25		_		
	2.28	8	2.28	3	2	3
URINALS, MALE					1	
	1 per	20		_		
WATER CLOSETS, FEMALE	2.85		2.85	3	3	
	1 per	40		2		
LAVATORIES, MALE	1.43		1.43		2	
	1 per			_		
LAVATORIES, FEMALE	1.43		1.43	2	2	
BATHTUBS/SHOWERS			0.0	0.0	0.0	
DRINKING FOUNTAINS			1.0	1	1	
SERVICE SINKS			1.0	1	1	



Office Building Renovations

Phase 2

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LEOMINSTER, MA 01420

CONSTRUCTION **DOCUMENTS**

603 King Street, 4th Floor Alexandria, VA 22314 www.wendelcompanies.com p:703.299.8718 tf:877.293.6335

Wendel Architecture, P.C

PROJ. No. 610101 G101.2

CHK. DEK

GENERIC SCALE BAR SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING. IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY

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REVISIONS

CODE COMPLIANCE PLANS

DATE 09-30-2021

DWN. CJS

DWG. No.

SCALE As indicated

DWG. TITLE

GENERAL NOTES: GENERAL NOTES: 1. NEW WORK SHALL ALIGN WITH AND MATCH EXISTING WORK 17. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR 8. WHERE PAINT IS CALLED FOR ON WALLS IN RENOVATED ROOMS IN EXISTING CONSTRUCTION, PAINT ALL WALLS. EXISTING AND NEW FIXTURES AND SERVICES REMOVED EXCEPT WHERE OTHERWISE DIMENSIONED OR DETAILED. AND/OR INSTALLED. PATCH EXISTING FINISHES DISTURBED BY 9. WHERE NO PAINT IS INDICATED IN AREAS WHERE PATCHING 2. ALL NEW VERTICAL AND HORIZONTAL DUCTS, PIPES, THIS WORK TO MATCH ADJACENT UNDISTURBED FINISHES. IS REQUIRED, PAINT NEW WORK TO MATCH EXISTING CONDUITS, ETC. WHETHER SHOWN OR NOT) IN FINISHED ROOMS OR AREAS THROUGH OUT BUILDING, NOT ENCASED ADJOINING SURFACES AND EXTEND TO NEAREST IN MASONRY, METAL OR WOOD CONSTRUCTION SHALL BE INTERSECTION. 18. THE FOLLOWING LIST OF EQUIPMENT. ALTHOUGH NOT FURRED IN AND FINISH MATERIALS APPLIED TO MATCH 10. WHERE THE ROOM FINISH SCHEDULE CALLS FOR A NEW SPECIFICALLY LOCATED OR INDICATED ON THE DRAWINGS ROOM FINISH. CEILING, REMOVE THE EXISTING CEILING AND SUSPENSION SHALL BE REMOVED AND TURNED OVER TO THE OWNER FOR 3. UNLESS OTHERWISE INDICATED, WHERE EXISTING WALLS SYSTEM COMPLETELY. RE-USE OR DISPOSAL (UNLESS OTHERWISE INDICATED ON OR PARTITIONS ARE REMOVED AND A DIFFERENCE IN DRAWINGS): 11. PROVIDE FIRE EXTINGUISHER CABINETS OF THE TYPE CEILING HEIGHTS OCCURS IN ONE ROOM OR AREA. SQUARE OFF THE SPACE BETWEEN THE CEILINGS HORIZONTALLY SPECIFIED. REFER TO FLOOR PLANS FOR LOCATIONS. AND VERTICALLY WITH FURRING CHANNELSAND METAL LATH AND FINISHED WITH PLASTER OR ACOUSTICAL 12. ALL WALL DIMENSIONS INDICATED ON FLOOR PLANS ARE TO A. CHALKBOARDS AND PROJECTION SCREENS. FACE OF STUD FRAMING OR MASONRY UNLESS OTHERWISE MATERIAL TO MATCH THE EXISTING CEILING FINISH. B. FIRE EXTINGUISHERS (EXCEPT THOSE MOUNTED IN HOSE CABINETS ARE TO REMAIN). C. SECURITY SYSTEM COMPONENTS AFFECTED BY SELECTIVE DEMOLITION AND 4. ALL NEW PARTITIONS, UNLESS OTHERWISE SHOWN OR CONSTRUCTION ACTIVITIES. 13. WHERE THE ROOM FINISH SCHEDULE FOR EXISTING DETAILED, TO BE CONSTRUCTED OF METAL STUDS OF CONSTRUCTION CALLS FOR A NEW MATERIAL, THE ENTIRE THICKNESS TO ADEQUATELY COVER PIPING, CONDUITS, ROOM IS TO RECEIVE THE NEW MATERIAL. WHERE THE ROOM FINISH SCHEDULE CALLS FOR BOTH PATCHING AND A 5. PROVIDE AN EDGE STRIP, UNDER ALL DOORS WHERE NEW NEW MATERIAL, THE NEW MATERIAL IS LIMITED TO AREAS OF OR EXISTING FINISHES AND ADJACENT FLOOR ARE AT NEW CONSTRUCTION WITHIN THAT ROOM ONLY. 19. WHERE THE ROOM FINISH SCHEDULE CALLS FOR PAINT, DIFFERENT LEVELS AND WHERE ADJACENT FLOOR COMPLETELY REMOVE ANY WALL PAPER AND/OR VINYL 14. WHERE A NEW DOOR, VIEW WINDOW OR OPENING IS CUT FINISHES ARE OF DIFFERENT MATERIALS. CHAIR RAILS, BUMPERS ETC. THESE SHALL BE COMPLETELY THROUGH AN EXISTING MASONRY WALL, PROVIDE A LOOSE REMOVED FROM WALLS AND FILL AND SAND SMOOTH ANY 6. EXISTING DOORS, WHICH SWING INTO ROOMS WHERE NEW LINTEL AS REQUIRED ON THE LOOSE LINTEL SCHEDULE HOLES OR BUMPS BEFORE APPLYING NEW COAT OF PAINT. FLOOR FINISH IS ABOVE ADJACENT FLOORS, SHALL BE INDICATED ON THE STRUCTURAL DRAWINGS OR 20. WHERE A SUB FLOOR MATERIAL LIES BELOW A TOPPING UNDERCUT AT BOTTOM TO CLEAR NEW FINISHED FLOOR. SPECIFICATIONS. FLOOR (SUCH AS CARPETING) AND THE ROOM FINISH 7. PROVIDE ACCESS PANELS, MINIMUM 24" X 24", OR OF SIZES 15. VERIFY ALL DIMENSIONS SHOWN IN RENOVATED AREAS IN SCHEDULE CALLS FOR A NEW FLOOR MATERIAL, REMOVE REQUIRED, WHERE PLUMBING AND HEATING VALVES, THE FIELD BEFORE PROCEEDING WITH WORK. BOTH TOP FLOORING MATERIAL AND SUB FLOORING WATER SWITCHES, OXYGEN PRESSURE SWITCHES. 16. IN ALL ROOMS BELOW AREAS WHICH RECEIVE UNDER VENTILATION SPLITTER DAMPERS, ETC. ARE SHOWN ON PLUMBING, HEATING, AND VENTILATION DRAWINGS, SUCH FLOOR SERVICES, REMOVE A PORTION OF EXISTING CEILING ACCESS PANELS TO BE INSTALLED IN THE FOLLOWING: BELOW AS REQUIRED. RESORE OR REPLACE REMOVED (A) METAL STUD OR MASONRY PARTITIONS CEILING AREAS TO MATCH EXISTING OR AS INDICATED ON (B) SUSPENDED PLASTER OR GYPSUM WALLBOARD ROOM FINISH SCHEDULE. CEILINGS **ABBREVIATIONS:** AIR CONDITION EACH LAVATORY RAILROAD EACH FACE LINEAR FEET (FOOT) **ROOF TOP UNIT** ACP ACCOUSTICAL CEILING PANEL ACS DR ACCESS DOOR EXTERIOR INSULATION AND FINISH SYSTEM LEFT HAND **ROOF VENT** LH ACS PNL ACCESS PANEL **EXPANSION JOINT** LHR LEFT HAND REVERSE SOUTH SUPPLY AIR ACCOUSTICAL CEILING TILE **ELEVATION** LIN LINEAR ADJACENT/ADJUSTABLE ELEC ELECTRICAL LONG LEG HORIZONTAL SOLID CORE SCD SEAT COVER DISPENSER ABOVE FINISHED FLOOR ELEV ELEVATOR LLV LONG LEG VERTICAL **ENCLOSURE** LOC LOCATION SCHED SCHEDULE AIR HANDING UNIT **ENCL** LPT **ALTERNATE ELECTRICAL PANEL** LOW POINT SOAP DISPENSER ETHYLENE PROPYLENE DIENE MONOMER LVT LUXURY VINYL TILE SECT ALUM ALUMINUM EPDM SECTION ANODIZE **EQUAL** MATL MATERIAL SQUARE FOOT (FEET) ANOD EQ SHR AREA OF REFUGE EQUIP EQUIPMENT MAX MAXIMUM SHOWER **APPROX APPROXIMATELY** ET CETERA MECH MECHANICAL SHEET ARCH ARCHITECT **ELECTRIC WATER COOLER** MEZZ MEZZANINE SHTHG SHEATHING ASSY ASSEMBLY EXH FN EXHAUST FAN MFR MANUFACTURER SHELVING **AUDIO VISUAL** EXPANSION/EXPOSED SIMILAR **MIRROR BOARD** EXTERIOR SANITARY NAPKIN DISPENSER BLDG BUILDING MISCELLANEOUS **EXTRUSION** MASONRY OPENING SANITARY NAPKIN DISPOSAL UNIT **BEARING** FACE TO FACE MODIFIED BITUMEN STAND PIPE FLOOR DRAIN BSMT BASEMENT SPECIAL FINISH **FOUNDATION** METAL PARTITION SPECIFICATION **BUILT UP ROOFING** FIRE EXTINGUISHER NORTH SQUARE CENTER TO CENTER FIRE EXTINGUISHER CABINET NOT APPLICABLE STORM SEWER FINISHED FACE NOT IN CONTRACT SOLID SURFACE MATERIAL CB CATCH BASIN FIRE HOSE CABINET NUMBER STAINLESS STEEL CFMF COLD-FORMED METAL FRAMING NOISE REDUCTION COEFFICIENT SOUND TRANSMISSION CLASS FINISHED FLOOR CORNER GUARD NOT TO SCALE STANDARD CGFSU CERAMIC GLAZED STRUCTURAL FACING UNITS FLASH ON CENTER STRUCTURAL **COAT HOOK** FLOOR OUTSIDE DIAMETER SUSPEND CH BD CHALK BOARD **FACE OF CONCRETE** OWNER FURNISHED/CONTRACTOR INSTALLED SHEET VINYL CONTROL JOINT SYMMETRICAL FACE OF MASONRY **CENTER LINE** OPPOSITE HAND FIBER REINFORCED GYPSUM CLG TOP AND BOTTOM CEILING CLO CLOSET FOLDING SHOWER SEAT OPPOSITE TONGUE AND GROOVE CLOS CLOSURE FEET/FOOT PRECAST CONCRETE TOWEL BAR CLEAR CLR **FURG FURRING** PREMOLDED EXPANSION JOINT TRENCH DRAIN/TOWEL DISPENSER CLRM CLASSROOM NATURAL GAS PERFORATED TOWEL DISPENSER/RECEPTACLE CONCRETE MASONRY UNIT PROPERTY LINE TELEPHONE GALVANIZED TERRAZZO **CLEANOUT** GALV PLASTIC LAMINAT COL GRAB BAR CONC CONCRETE GENERAL CONTRACTOR PLYWD PLYWOOD TACK BOARD TOC CONF **CONFERENCE** PORCELAIN GDR **GUARD RAIL** PORC TOP OF CURB/TOP OF CONCRETE CONSTR CONSTRUCTION GFCI **GROUND FAULT CIRCUIT INERRUPTER** POWER POLE TOJ TOP OF JOIST CONT CONTINUE PREFINISH TOP OF PARAPET CONTR CONTRACTOR GLAZED CONCRETE MASONRY UNIT PREFAB PREFABRICATE TOP OF STEEL COORD COORDINATE GYP TOP OF WALL GYPSUM WALLBOARD CORR PAPER TOWEL DISPENSER TOWEL PIN CORRIDOR TOILET PAPER HOLDER CPRS **COMPRESSIBLE** HIGH PTN PARTITION HOSE BIBB POLYVINYL CHLORIDE THERMOPLASTIC POLYOLEFIN CPT CARPET CERAMIC TILE **HANDICAP QUARRY TILE** CTB CERAMIC TILE BASE HAND DRYER QTY QUANTITY TELEVISION CUST CUSTODIAN HARDWARE RADIUS/RISER/THERMAL RESISTANCE TYPICAL DEEP/DEPTH **HOLLOW METAL** RUBBER BASE **UNIT HEATER** DBL DOUBLE HORIZ HORIZONTAL REFLECTED CEILING PLAN UNFINISH DEMO DEMOLITION HIGH PERFORMANCE COATING **ROOF DRAIN** UNLESS NOTED OTHERWISE **DEPARTMENT** DET **DETAIL** HVAC HEATING, VENTILATING, AND AIR CONDITIONING REFERENCE/REFRIGERATOR UTIL UTILITY DRINKING FOUNTAIN **HYDRANT** VINYL BASE REINF REINFORCE INSIDE DIAMETER REQD VINYL COMPOSITION TILE DIAMETER INSIDE FACE VERTICAL DIAGONAL RESILIENT DIMENSION INCLUDED RETURN VESTIBULE INSULATION ROOFING VERIFY IN FIELD **DEMOUNTABLE PARTITION** INSULATED METAL PANEL ROOF HATCH/RIGHT HAND VENT THROUGH ROOF DOOR INTERIOR RIGHT HAND REVERSE VINYL WALL COVERING DS DOWNSPOUT ROOF LEADER WEST/WIDE DWG DRAWING LABORATORY ROOM LAMINATE ROUGH OPENING WITHOUT WOOD BLOCKING WATER CLOSET WOOD WATER HEATER WELDED WIRE REINFORCEMENT REQUIRED DOOR CLEARANCES

HINGE APPROACH,

PULL SIDE

HINGE APPROACH,

PULL SIDE

FRONT APPROACH,

ARE PROVIDED

- ADD 12" IF CLOSER AND LATCH

PUSH SIDE

FRONT APPROACH,

PULL SIDE

HINGE

APPROACH PUSH SIDE

ADD 6" IF CLOSER AND

LATCH ARE PROVIDED

LATCH APPROACH,

ADD 6" IF CLOSER AND

LATCH ARE PROVIDED

APPROACH, PUSH SIDE

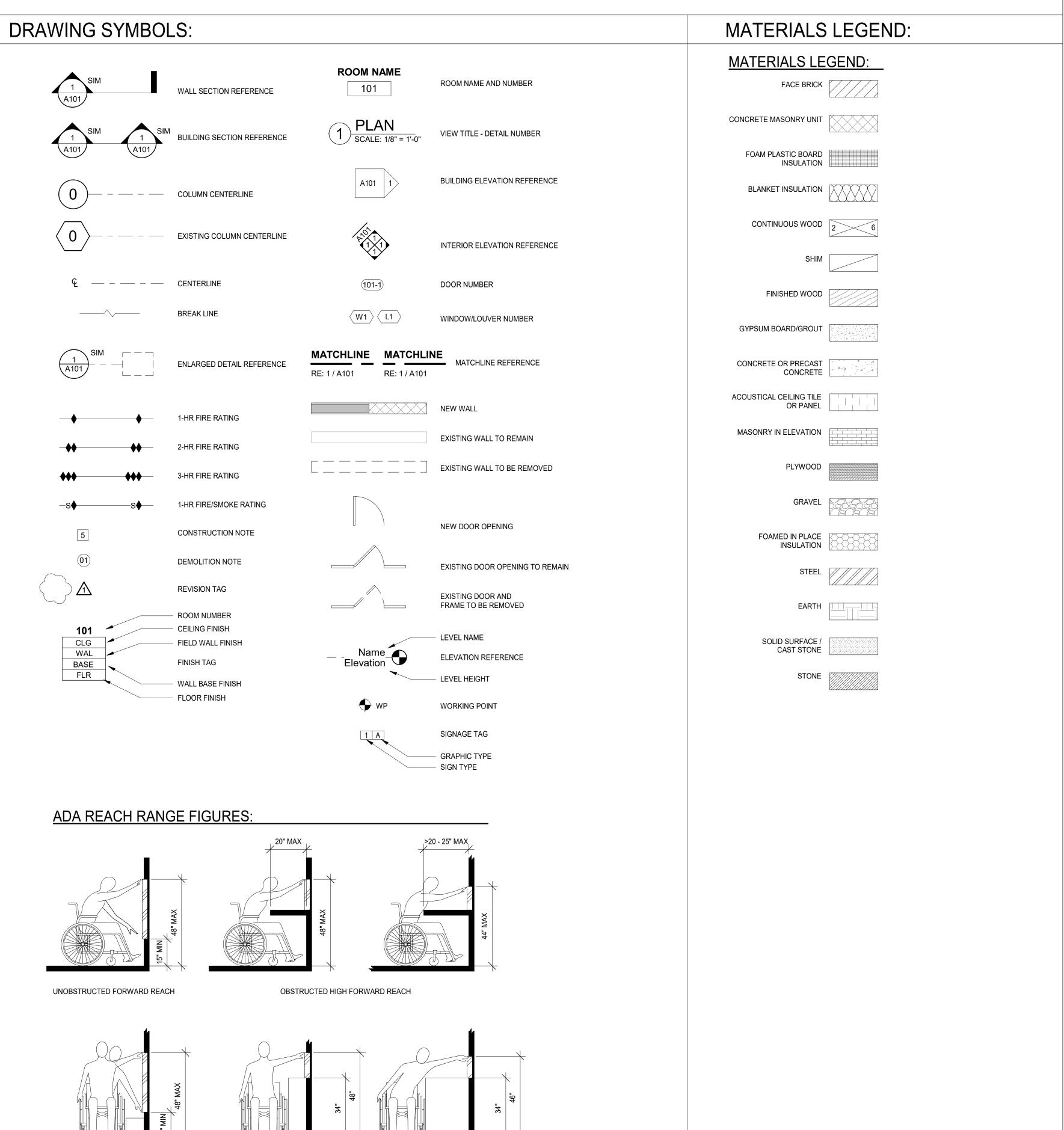
ADD 6" IF CLOSER IS

PROVIDED

PULL SIDE

TYP FIXTURE MOUNTING HEIGHTS: DRINKING SEAT - PAPER HAND MIRROR CONTROLS. COVER DRYER **FOUNTAIN** TOWEL TOWEL PIN (TP) **FAUCETS AND** DISPENSER DISPENSER (DF) SANITARY DISPENSER 4" MAX~ COAT HOOK (CH) SHOWER (SCD) -(PTD) NAPKIN (SD) ACCESSIBLE SHELVING — DISPOSAL UNIT URINAL SHOWER က်ုံ့ယ SEAT (FSS) BAR(GB) GRAB BAR −3" MAX (GB) -2 1/2" MAX GRAB ─ BARS / 6" MAX (GB) ALIGN GB W/ 15"- 16 1/8" FOLDING FINISHED FLOOR EDGE OF FSS — SHOWER SIDE WALL CONTROL WALL SEAT (FSS) SEAT WALL ACCESSORIES **GENERAL NOTES: ROLL- IN SHOWER** 1. DIMENSIONS FROM THE FINISHED FLOOR SHALL BE *SEE PLAN FOR ACTUAL DIMENSIONS TAKEN FROM THE LEADING EDGE/FACE SHOWN TO TOILET PAPER ACCOUNT FOR SLOPE IN FLOOR HOLDER (TPH) 2. WATER CLOSET HEIGHT IS TO BE MEASURED FROM TOP OF SEAT, SEATS SHALL NOT BE SPRUNG TO GRAB RETURN TO THE LIFTED POSITION BARS BARS WALL HUNG (GB) **KEYNOTES:** MIN. ELEMENT OUTLET TRANSFER 27"HX30"W MIN KNEE CLEARANCE AT FRONT SIDE 9"HX11"D MIN KNEE CLEARANCE DEPTH, FRONT OF LAV TO TRAP (8"H WHEN 27"D MIN) THE DIP KNEE -6" OF THE OVERFLOW SHALL NOT BE CLEARANCE CONSIDERED KNEE CLEARANCE 24"HX30"W MIN KNEE CLEARANCE AT FRONT ACCESSIBLE AND AMBULATORY WATER CLOSET* *REAR WALL GRAB BAR NOT REQUIRED IN AMBULATORY COMPARTMENT

TYP FIXTURE MOUNTING HEIGHTS:



>10 - 24" MAX—

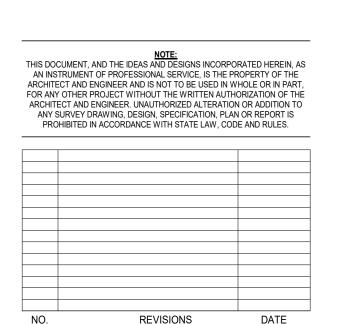
OBSTRUCTED HIGH SIDE REACH

10" MAX—

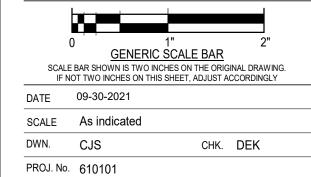
UNOBSTRUCTED SIDE REACH



Office Building Renovations

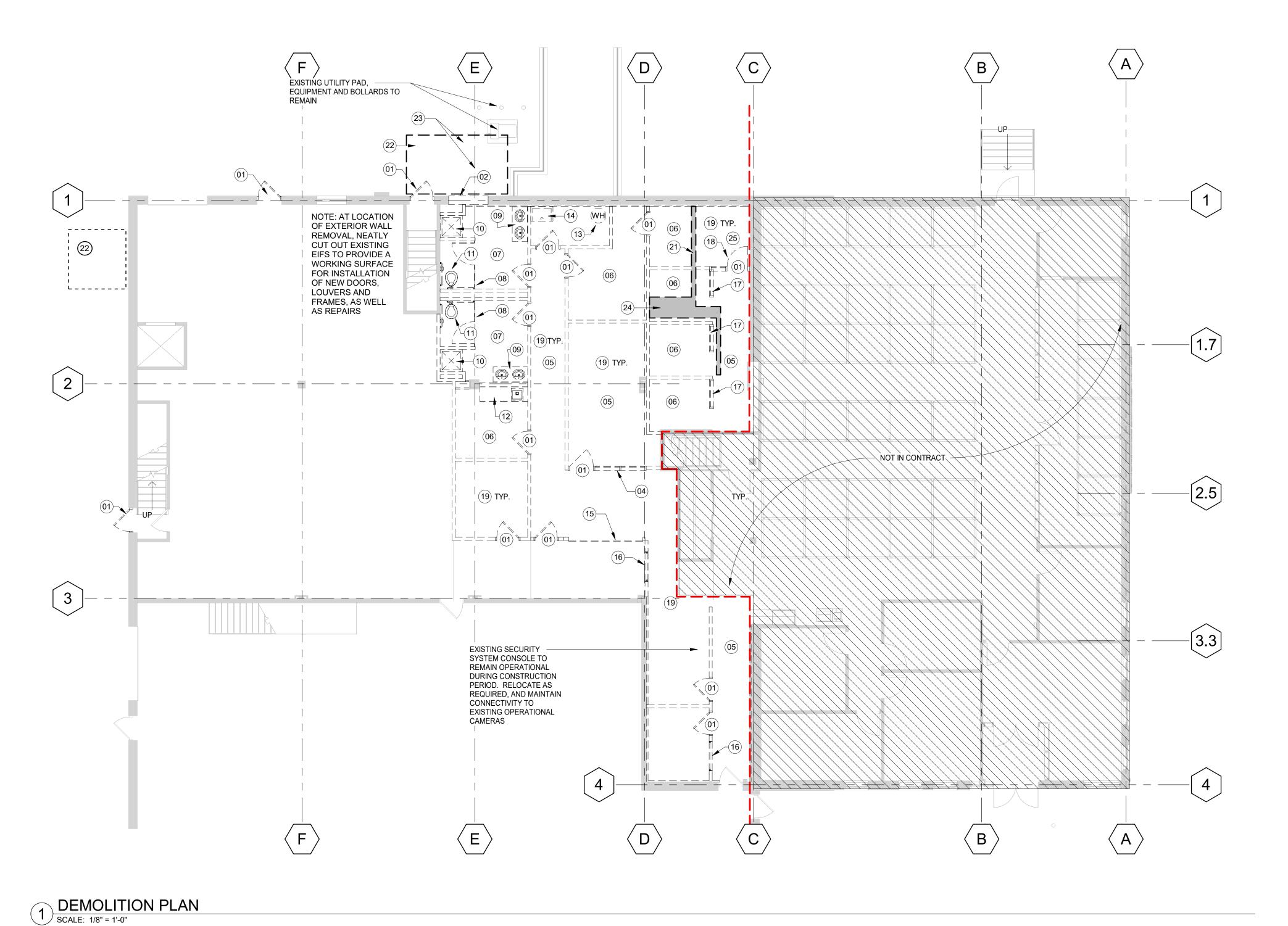


TITLES & SYMBOLS



DWG. No.

A001.2



GENERAL DEMOLITION NOTES:

- INFORMATION SHOWN IS NOT PURPORTED TO BE AN ACCURATE AND/OR DETAILED REPRESENTATION OF EXISTING CONDITIONS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. NOTIFY ARCHITECT OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DRAWINGS BEFORE PROCEEDING WITH SELECTIVE DEMOLITION.
- 2. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE PROCEEDING WITH SELECTIVE DEMOLITION.
- 3. OWNER WILL OCCUPY PORTIONS OF BUILDING IMMEDIATELY ADJACENT TO SELECTIVE DEMOLITION AREA. CONDUCT SELECTIVE DEMOLITION SO OWNER'S OPERATIONS WILL NOT BE DISRUPTED. PROVIDE TEMPORARY BARRICADES AND OTHER PROTECTION REQUIRED TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN.
- 4. PROVIDE TEMPORARY FIRE PROTECTION FOR ANY DEMOLITION THAT COMPROMISES EXISTING FIRE RATED CONDITIONS.
- 5. IT IS NOT EXPECTED THAT HAZARDOUS MATERIALS WILL BE ENCOUNTERED IN THE WORK. IF SUSPECTED HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY NOTIFY ARCHITECT AND OWNER.
- 6. REPAIR ALL DAMAGE RESULTING FROM THE PROJECT AND LEAVE ALL AREAS CLEAN AND FREE OF DUST AND DEBRIS AT THE COMPLETION OF EACH WORK DAY.
- 7. THE EXISTING CONDITION OF ALL ITEMS NOTED OR SHOWN TO BE REMOVED AND/OR REUSED SHALL BE FIELD VERIFIED PRIOR TO SELECTIVE DEMOLITION. ANY EXISTING DAMAGE SHALL BE BROUGHT TO THE OWNER AND ARCHITECT'S ATTENTION AND NOTED PRIOR TO SELECTIVE DEMOLITION.

DEMOLITION SYMBOLS LEGEND:

EXISTING WALLS TO REMAIN

EXISTING WALLS TO BE REMOVED

=

■ EXISTING GLAZING TO BE REMOVED OR RELOCATED

EXISTING DOORS TO BE REMOVED

EXISTING DOORS TO REMAIN

EXISTING CASEWORK TO BE REMOVED

DEMOLITION KEYNOTES: (X)

- 01 REMOVE EXISTING DOOR, DOOR FRAME AND DOOR HARDWARE IN THEIR ENTIRETY
- 02 REMOVE PORTION OF EXISTING CMU WALL AS REQUIRED FOR SCHEDULED DOOR AND DOOR FRAME INSTALLATION. PROVIDE LINTEL AS REQUIRED

 03 NOT USED IN PHASE 2
- 04 REMOVE AND SALVAGE EXISTING STOREFRONT AND GLAZING CONSTRUCTION FOR REUSE. TAKE CARE TO ENSURE FRAMES AND GLAZING ARE NOT DAMAGED DURING REMOVAL PROCESS.
- 05 EXISTING CERAMIC TILE FLOOR IS TO REMAIN THROUGHOUT. REMOVE CERAMIC TILE WALL BASE.
- REMOVE EXISTING SHEET CARPET FLOOR, CARPET WALL BASE, ACCESSORIES AND ADHESIVE IN THEIR ENTIRETY
 EXISTING PORCELAIN TILE FLOOR TO REMAIN. REMOVE TILED WALLS AS SHOWN
- 08 REMOVE EXISTING TOILET PARTITION AND HARDWARE, GRAB BARS, AND ALL OTHER TOILET ACCESSORIES
 09 REMOVE EXISTING MIRROR, COUNTERTOP, SINKS, FAUCETS, AND ASSOCIATED
- PIPING. REFER TO PLUMBING DRAWINGS

 10 REMOVE EXISTING SHOWER, FAUCET WITH ALL ASSOCIATED ACCESSORIES, AND
- REMOVE PIPING. REFER TO PLUMBING DRAWINGS

 11 REMOVE EXISTING TOILET AND ASSOCIATED PIPING. REFER TO PLUMBING

 DRAWINGS
- 12 REMOVE EXISTING COUNTERTOP, SINK, FAUCET, AND ASSOCIATED PIPING. REFER TO PLUMBING DRAWINGS
- SALVAGE EXISTING WATER HEATER FOR REUSE
 REMOVE EXISTING MOP SINK AND ASSOCIATED PIPING. REFER TO PLUMBING
- DRAWINGS.

 15 REMOVE EXISTING OVERHEAD DOOR AND ALL ASSOCIATED HARDWARE.
- REMOVE EXISTING INTERIOR WINDOW AND FRAME.
- 17 REMOVE EXISTING STOREFRONT PANEL AND FRAME.
 18 REMOVE EXISTING STOREFRONT PANEL, DOOR, FRAME, AND ASSOCIATED
- HARDWARE.

 19 REMOVE EXISTING ACT AND GRID CEILING SYSTEMS THROUGHOUT IN THEIR ENTIRETY AND ALL EXISTING LIGHTING FIXTURES, EXIT SIGNS, AND OTHER CEILING DEVICES WITHIN.
- 20 NOT USED IN PHASE 2.
 21 SAW CUT AND REMOVE EXISTING CONCRETE SLAB FOR INSTALLATION OF
- PLUMBING PIPE. REFER TO PLUMBING DRAWINGS. REPAIR SLAB OCE PLUMBING
 WORK IS COMPLETED
- 22 SAW CUT AND REMOVE EXISTING ASPHALT PAVING.
 23 REMOVE EXISTING BOLLARDS TO ALLOW FOR NEW CONSTRUCTION VIE
- 23 REMOVE EXISTING BOLLARDS TO ALLOW FOR NEW CONSTRUCTION VIF 24 PROVIDE PIPING PENETRATION IN CONCRETE FOUNDATION BELOW. APPLY
- CONCRETE SEALER OVER FINISHED CONCRETE

 REMOVE EXISTING VCT FLOORING IN THIS ROOM. CLEAN ALL GLUE FROM SUBSTRATE AND PREP TO RECEIVE NEW FLOORING



Office Building Renovations

Phase 2

840 NORTH MAIN STREET

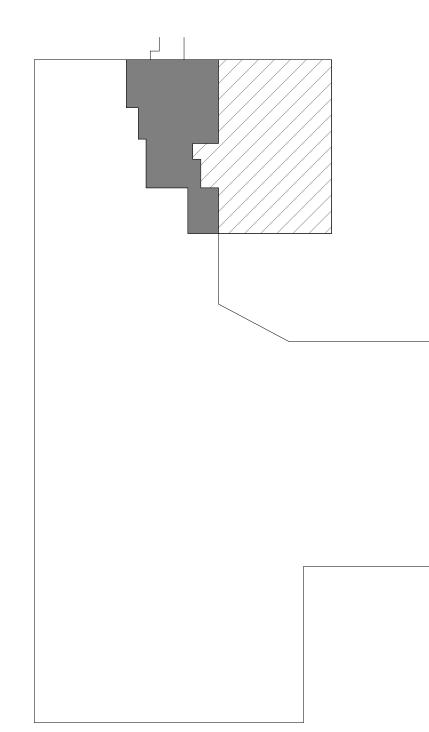
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CONSTRUCTION

DOCUMENTS

375 Essjay Road, Suite 200 Williamsville, NY 14221 www.wendelcompanies.com p:716.688.0766 tf:877.293.6335

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DEMOLITION PLAN

0 1" 2"

GENERIC SCALE BAR

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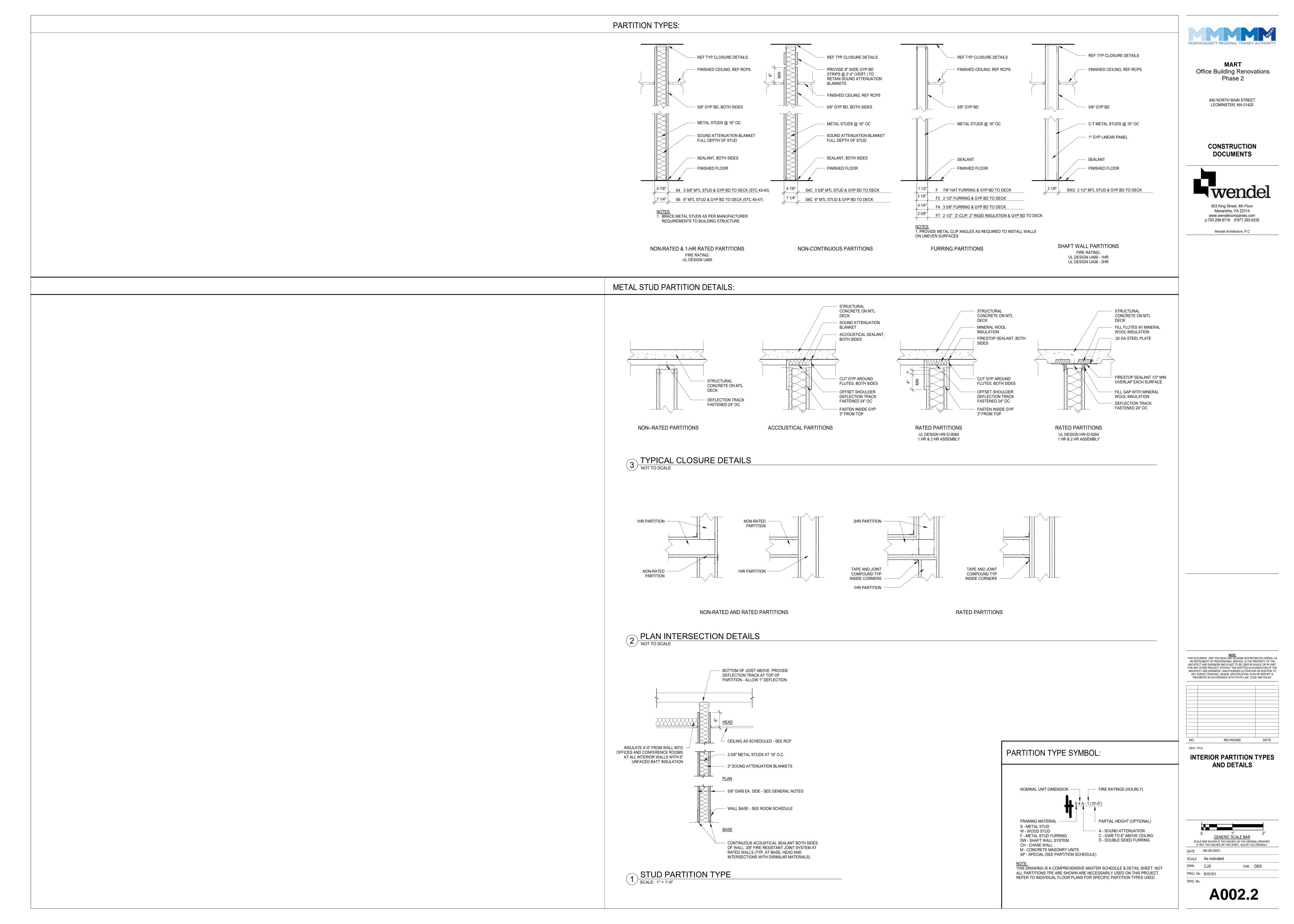
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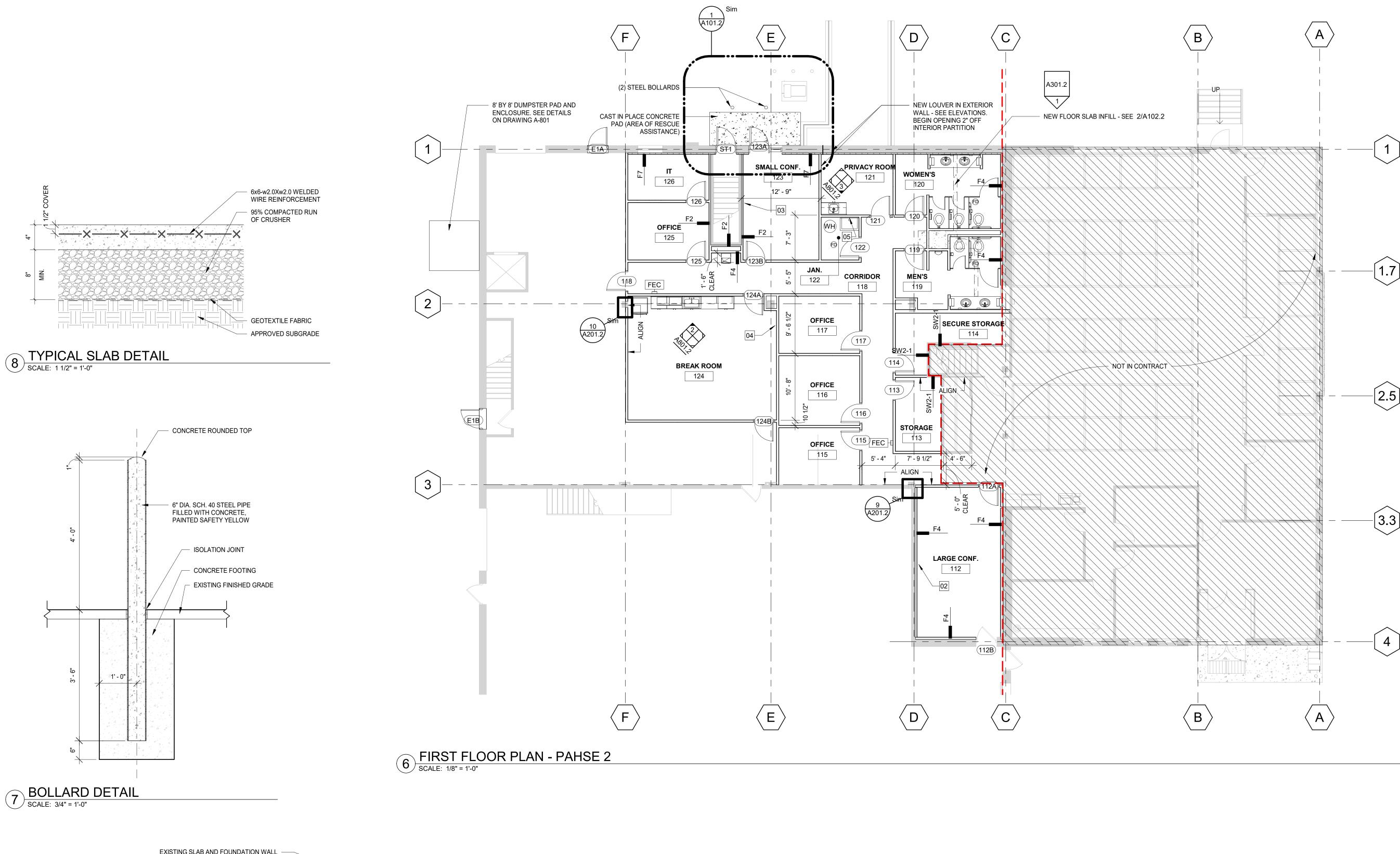
SCALE As indicated

PROJ. No. 610101

AD001.2

CHK. Checker





GENERAL FLOOR PLAN NOTES:

- 1. NEW WORK SHALL ALIGN WITH AND MATCH EXISTING WORK EXCEPT WHERE OTHERWISE DIMENSIONED OR DETAILED.
- 2. PROVIDE ACCESS PANELS, MINIMUM 24" X 24", OR OF SIZES REQUIRED, WHERE PLUMBING AND HEATING VALVES, WATER SWITCHES, OXYGEN PRESSURE SWITCHES, VENTILATION SPLITTER DAMPERS, ETC. ARE SHOWN ON PLUMBING, HEATING, AND VENTILATION DRAWINGS. SUCH ACCESS PANELS TO BE INSTALLED IN THE FOLLOWING: (A) STUD OR MASONRY PARTITIONS (B) SUSPENDED GYPSUM WALLBOARD CEILINGS
- 3. ALL WALL DIMENSIONS INDICATED ON FLOOR PLANS ARE TO FACE OF STUD FRAMING OR MASONRY UNLESS OTHERWISE NOTED.
- 4. WHERE A NEW DOOR, VIEW WINDOW OR OPENING IS CUT THROUGH AN EXISTING MASONRY WALL, PROVIDE A LOOSE LINTEL AS REQUIRED ON THE LOOSE LINTEL SCHEDULE INDICATED ON THE STRUCTURAL DRAWINGS OR SPECIFICATIONS.
- 5. IN ALL ROOMS BELOW AREAS WHICH RECEIVE UNDER FLOOR SERVICES, REMOVE A PORTION OF EXISTING CEILING BELOW AS REQUIRED. RESTORE OR REPLACE REMOVED CEILING AREAS TO MATCH EXISTING OR AS INDICATED ON ROOM FINISH
- 6. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR EXISTING AND NEW FIXTURES AND SERVICES REMOVED AND/OR INSTALLED. PATCH EXISTING FINISHES DISTURBED BY THIS WORK TO MATCH ADJACENT UNDISTURBED FINISHES, MATERIAL AND SUB FLOORING COMPLETELY.
- 7. ALL PARTITIONS TO BE TYPE 'S4' UNLESS NOTED OTHERWISE.

KEYNOTES:

SCHEDULE.

- NOT USED IN PHASE 2.
- PROVIDE 8'W x 4'H MARKER BOARD CENTERED ON WALL. PROVIDE 6'W x 4'H MARKER BOARD CENTERED ON WALL.
- PROVIDE 4'W x 4'H TACKBOARD. COORDINATE EXACT LOCATION WITH TENANT. PROVIDE MOP AND BROOM HOLDER IN JAN. CLOSET WHERE INDICATED.

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Phase 2

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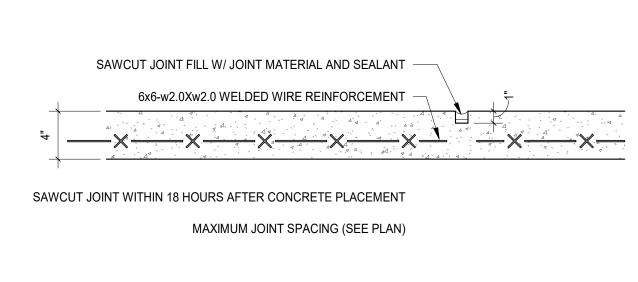
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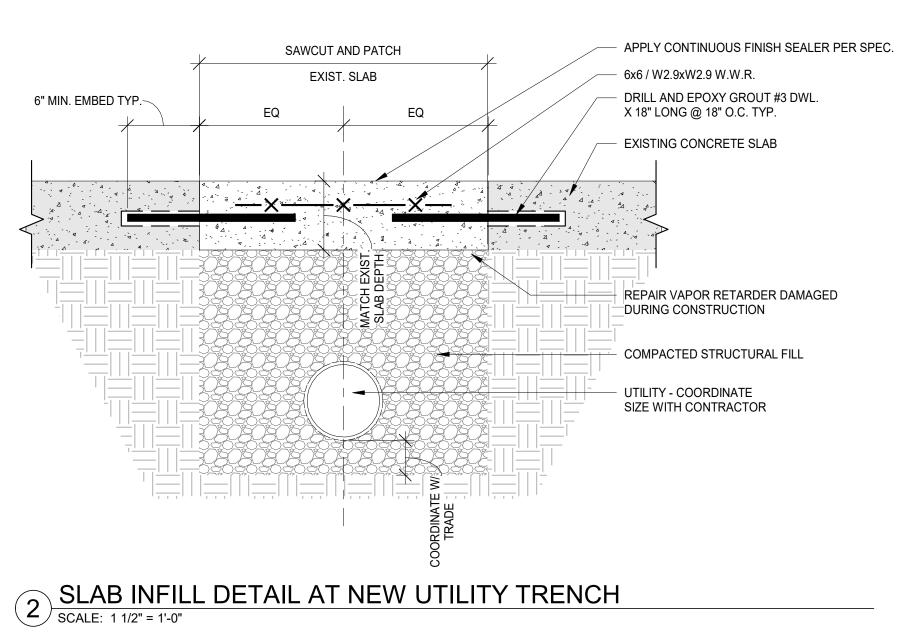
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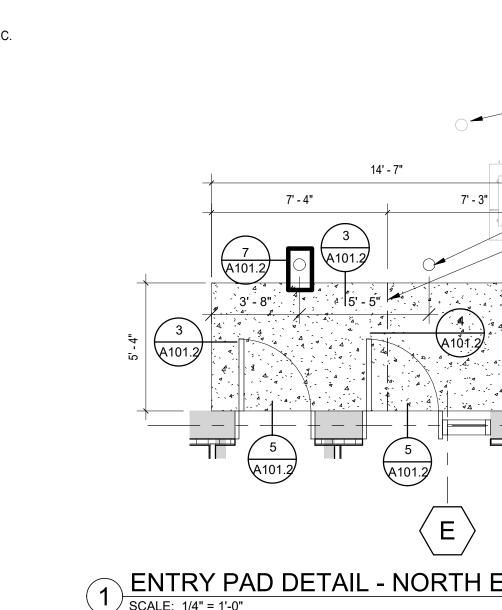
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A101.2



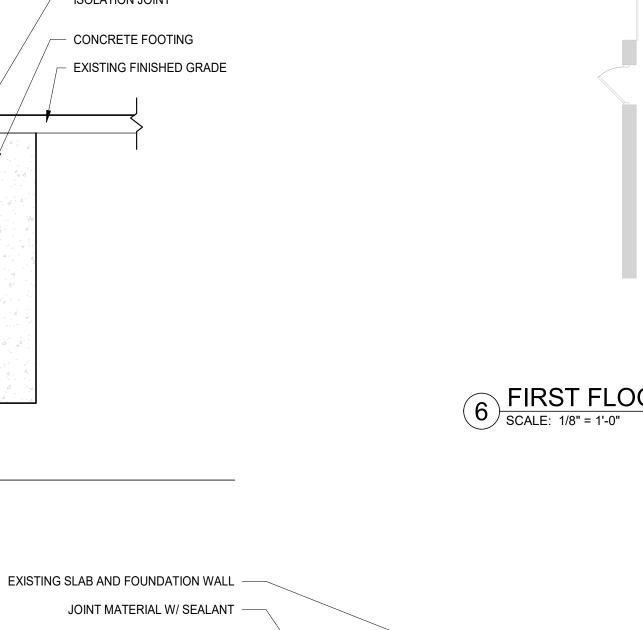
TYP. SLAB DETAIL SAWCUT JOINT SCALE: 1 1/2" = 1'-0"





1 ENTRY PAD DETAIL - NORTH ENTRY

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



EXISTING ASPHALT PAVEMENT, PATCH

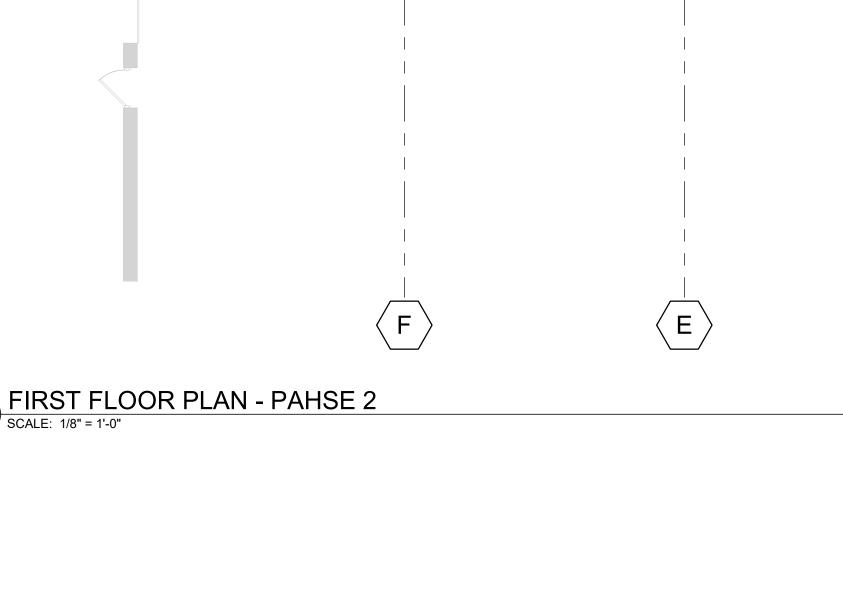
6x6-w2.0Xw2.0 WELDED WIRE REINFORCEMENT

WITH INSTALL OF NEW CONCRETE

3/4" CHAMFER, TYP. ALL EDGES

95% COMPACTED RUN OF CRUSHER

ISOLATION JOINT



APPROVED SUBGRADE 3 TYP SLAB EDGE DETAIL
SCALE: 1 1/2" = 1'-0"

X

1/2" DIA. X 18" LONG SMOOTH DOWEL @ 18"

O.C. (GREASE AND WRAP ONE END)

95% COMPACTED RUN OF CRUSHER —

5 TYP SLAB TIE INTO EXISTING
SCALE: 1 1/2" = 1'-0"

<u>KEYPLAN</u>

- EXISTING BOLLARDS

EXISTING TRANSFORMER

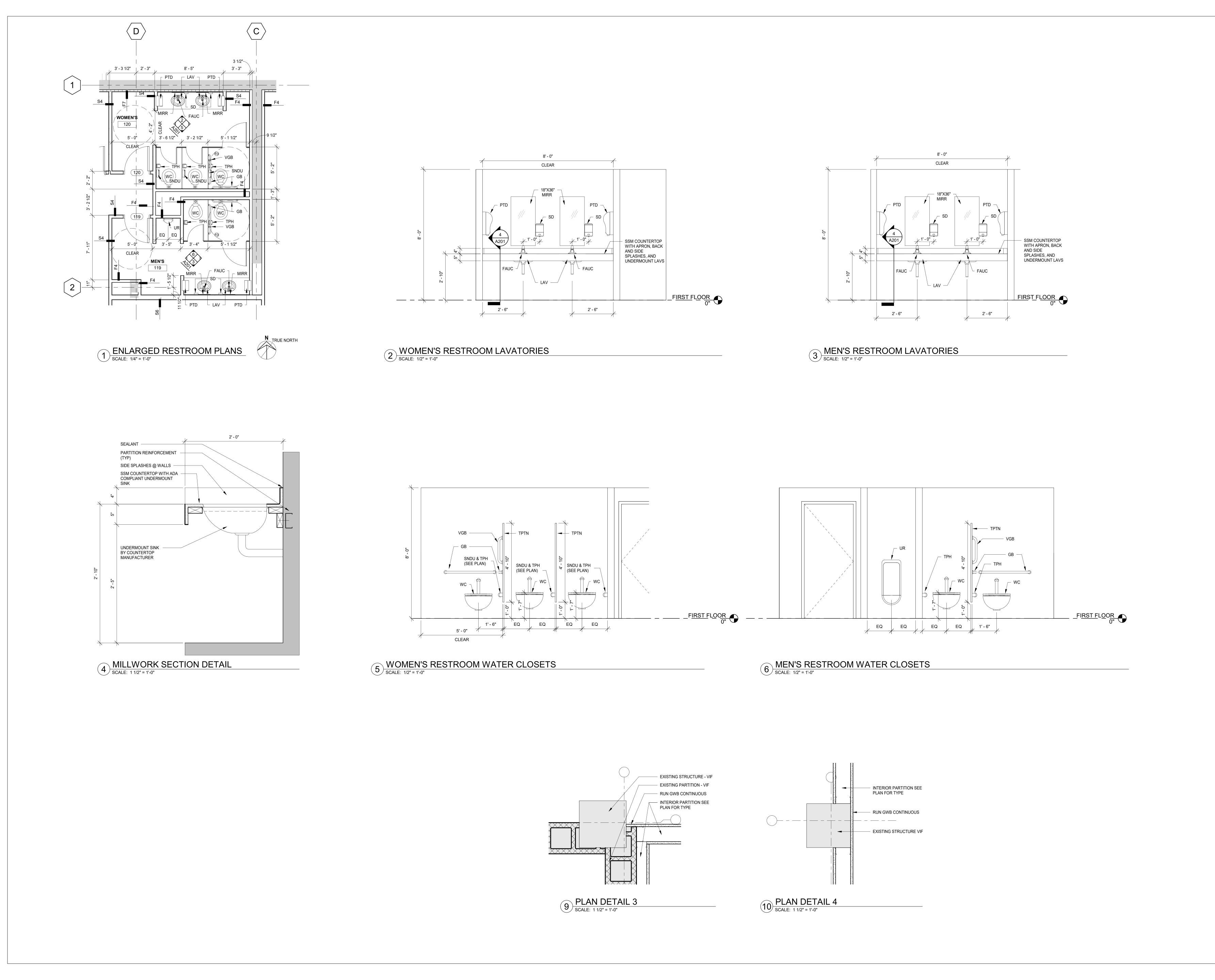
CONCRETE SLAB ON GRADE, SLOPE

TO MATCH EXISTING GRADE

- ALIGN WITH EDGE OF

(2) BOLLARDS

SAWCUT JOINT





MART Office Building Renovations Phase 2

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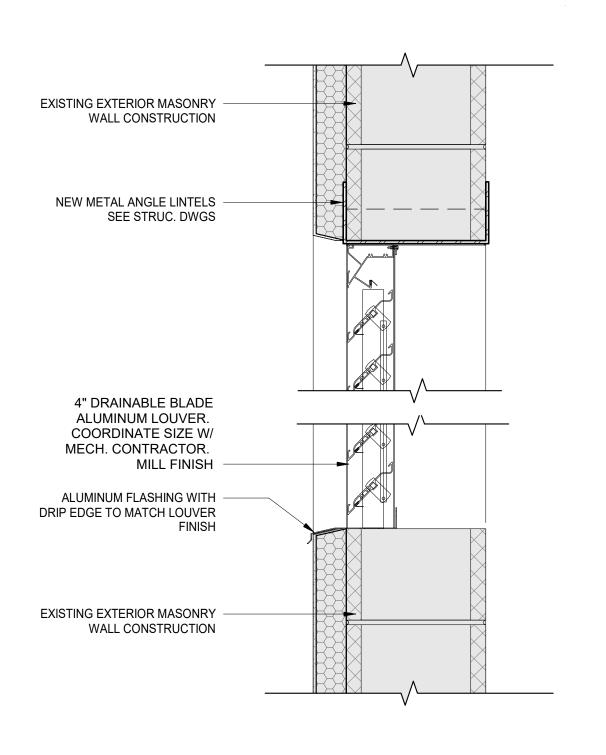
DATE REVISIONS DWG. TITLE

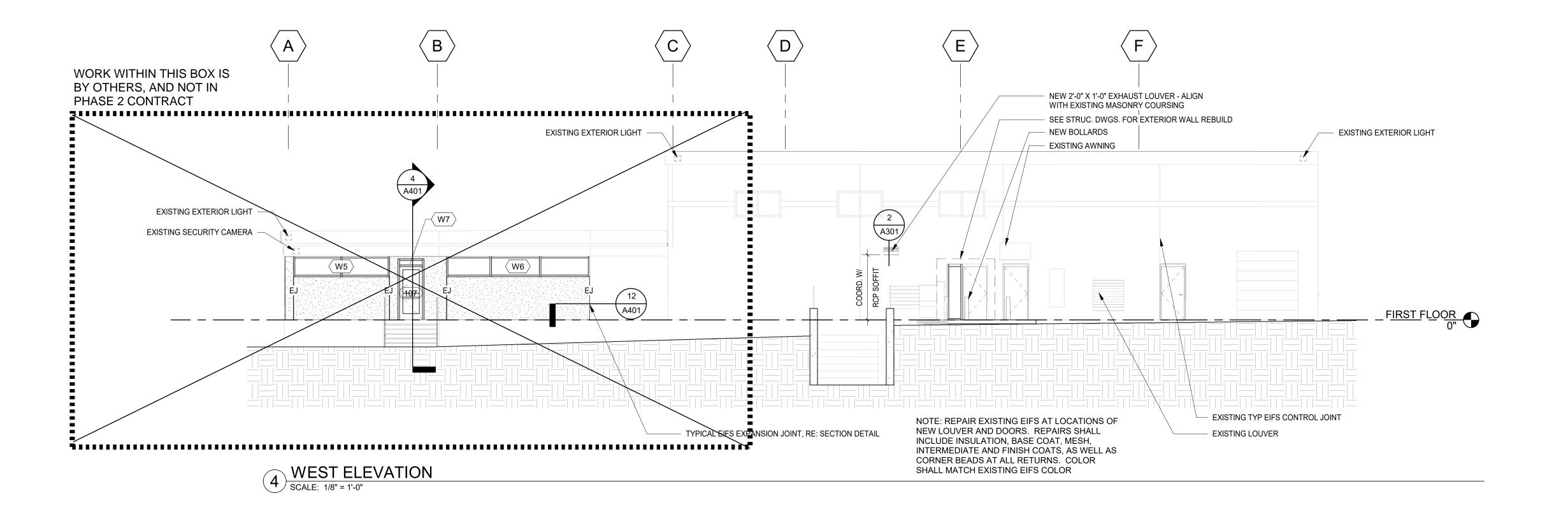
ENLARGED TOILET PLANS & PLAN DETAILS

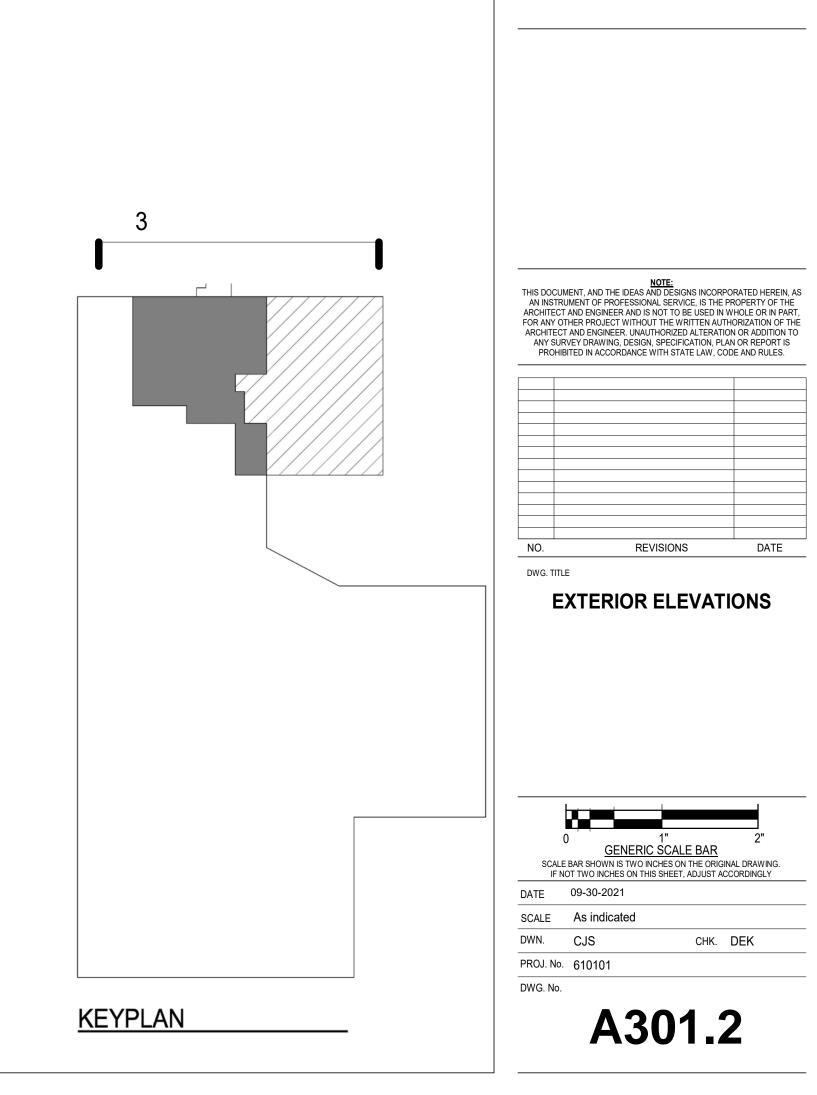
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A201.2

2 LOUVER DETAIL IN EXISTING WALL SCALE: 1 1/2" = 1'-0"







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DWG. TITLE

Office Building Renovations Phase 2

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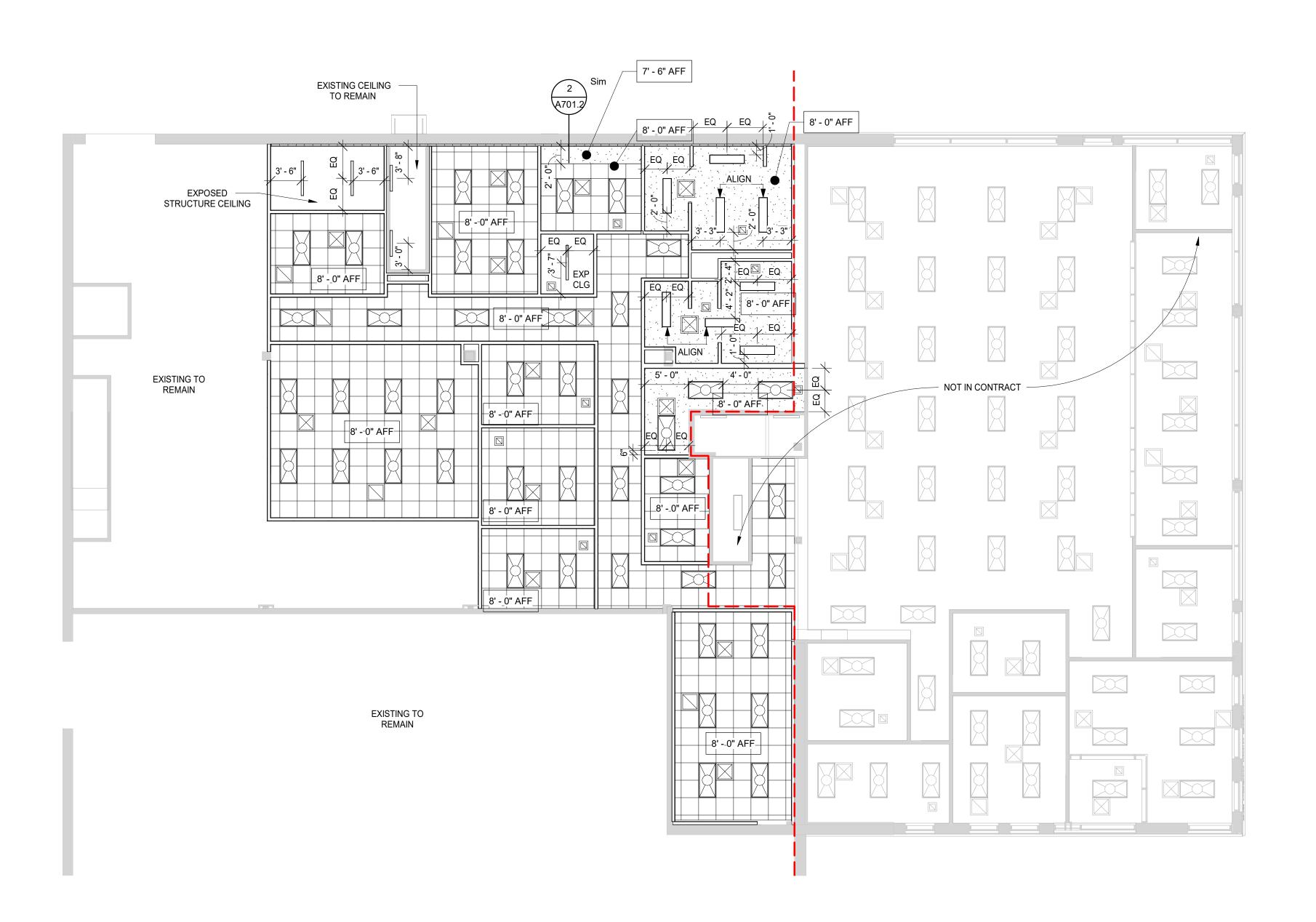
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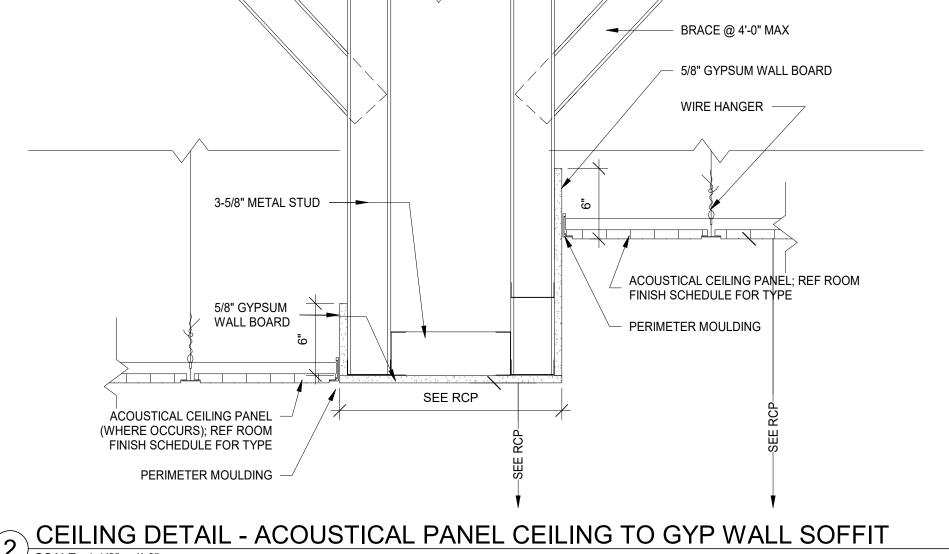
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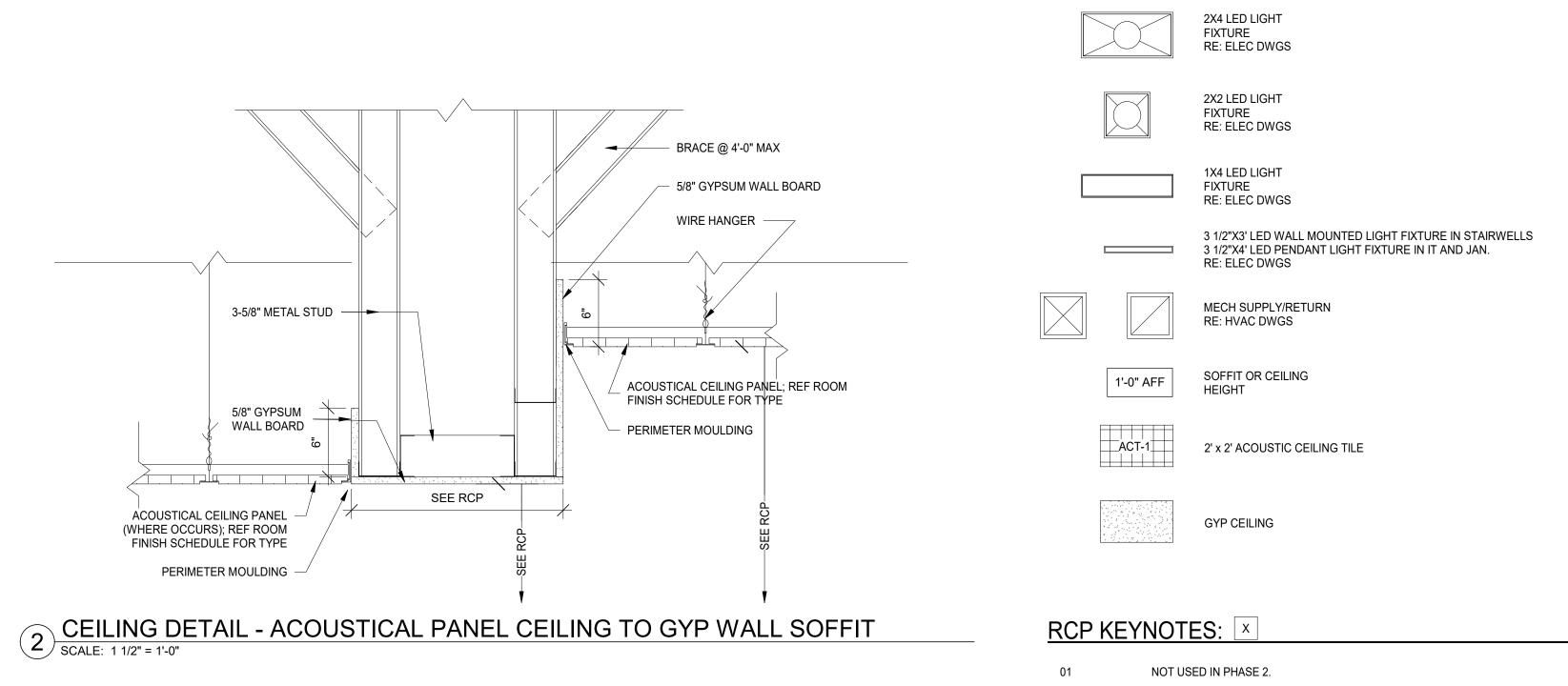
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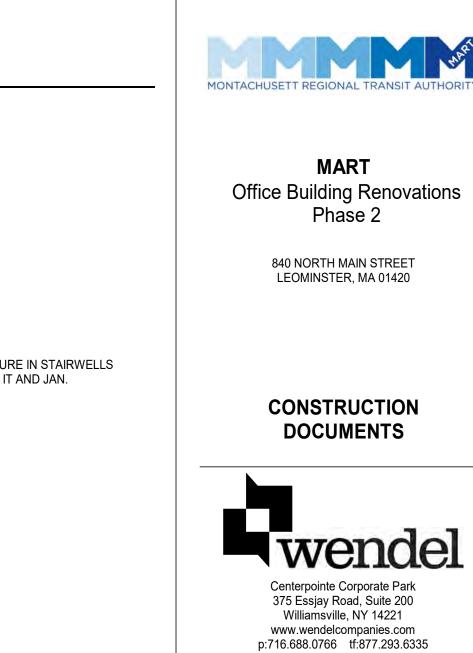


1 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

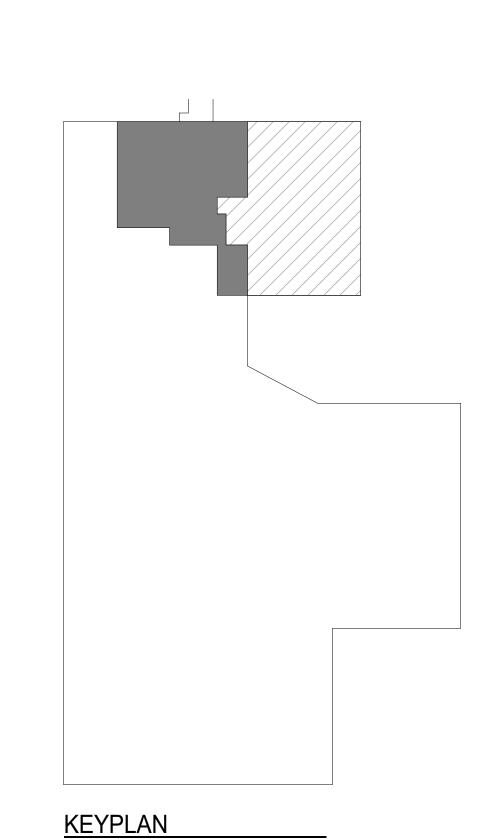


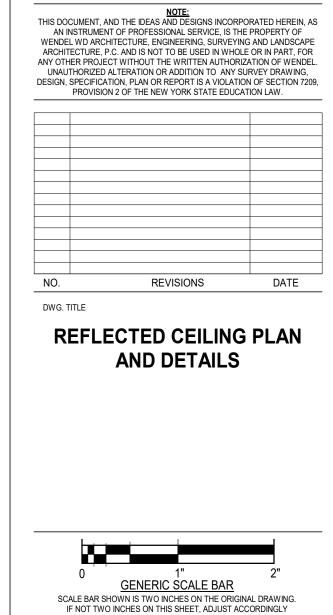


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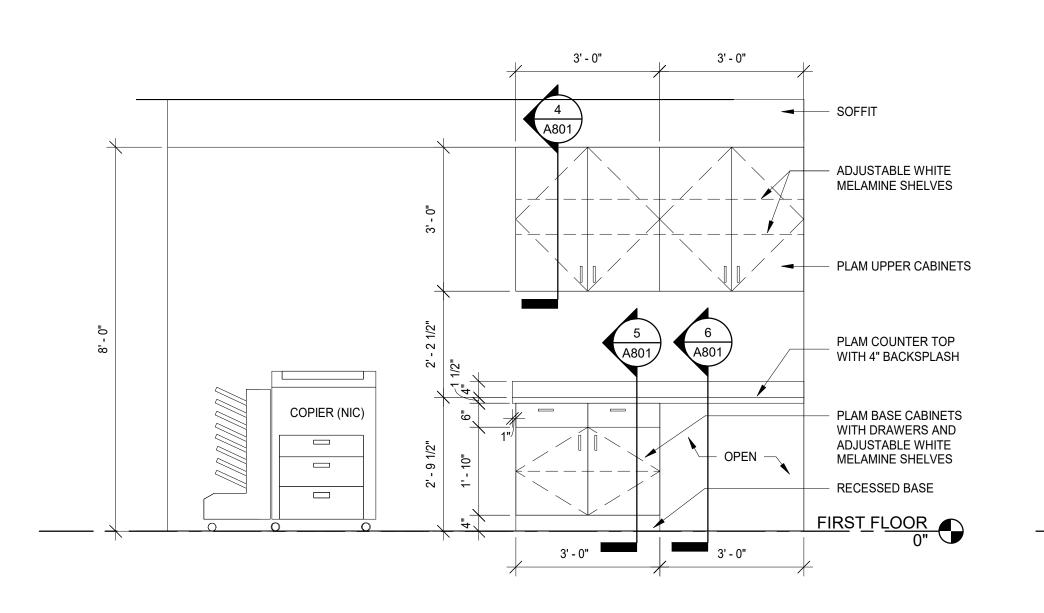
CHK. DEK

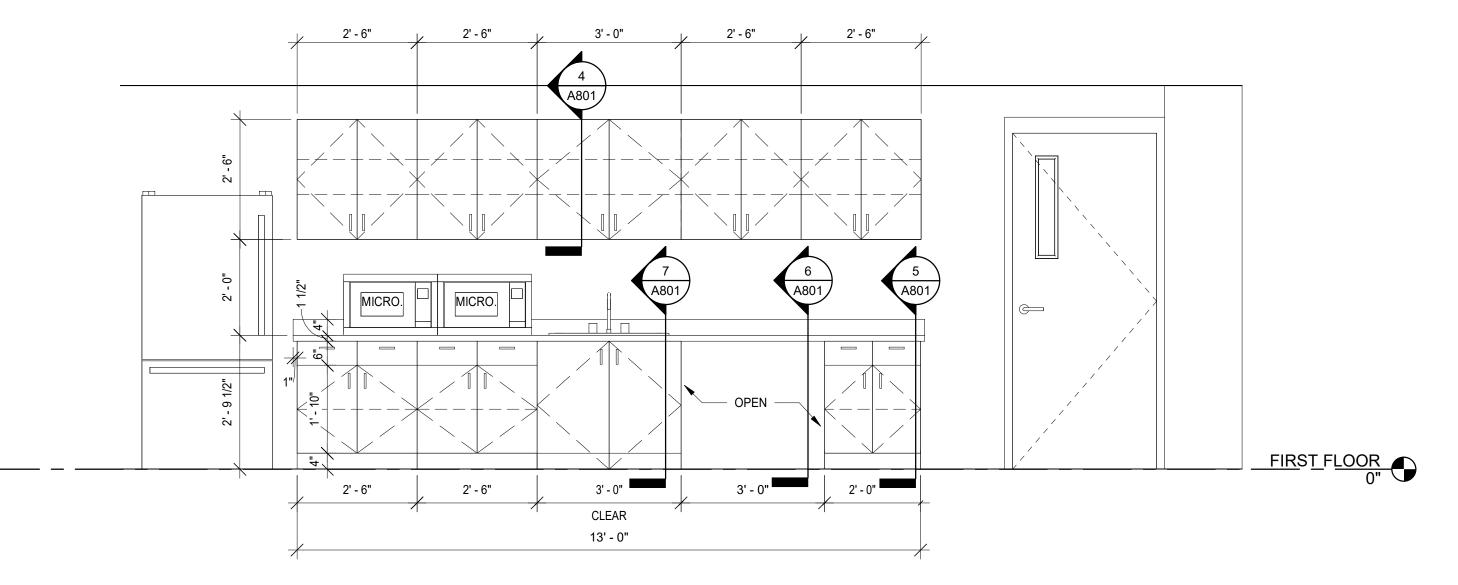
DATE 09-30-2021

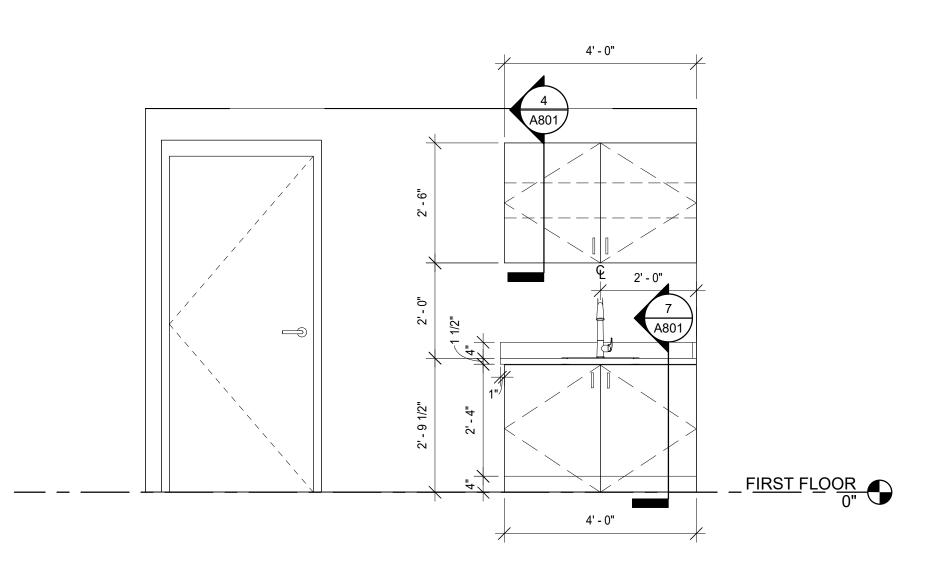
SCALE As indicated

DWN. CJS

PROJ. No. 610101



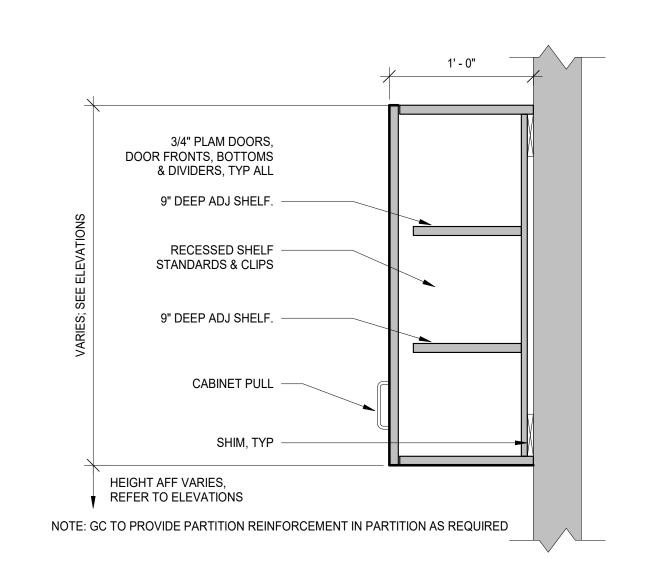


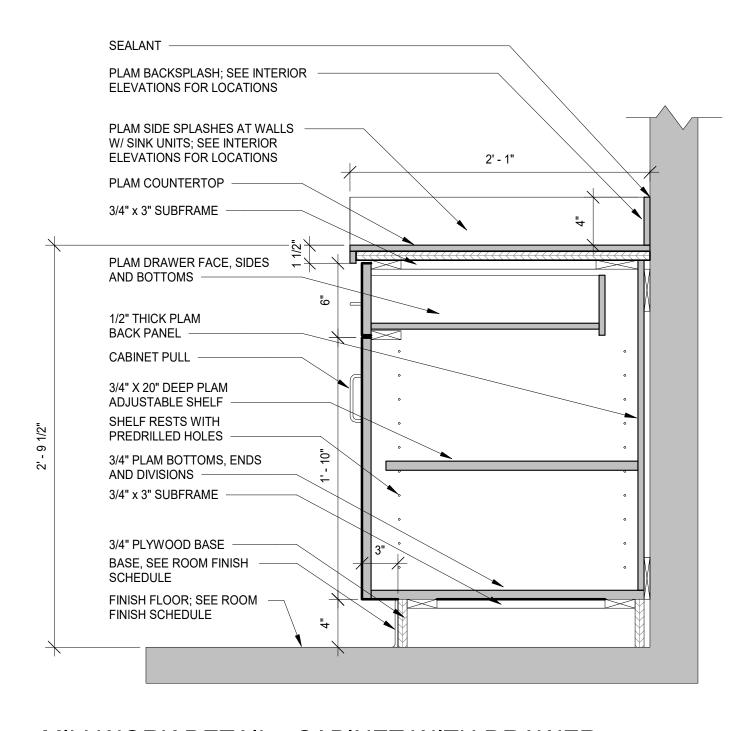


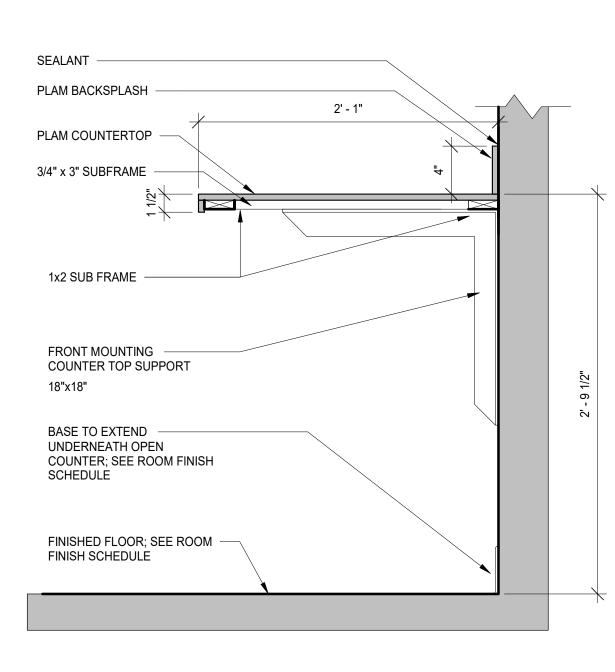
1 COPY/PRINT AREA ELEVATION
SCALE: 1/2" = 1'-0"

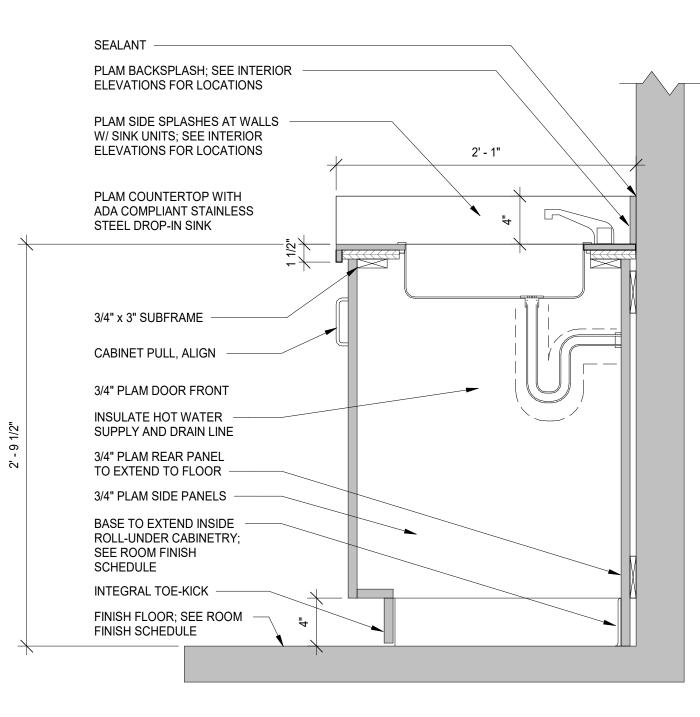
2 BREAK ROOM ELEVATION
SCALE: 1/2" = 1'-0"

3 PRIVACY ROOM ELEVATION
SCALE: 1/2" = 1'-0"









MILLWORK DETAIL - WALL HUNG CABINET

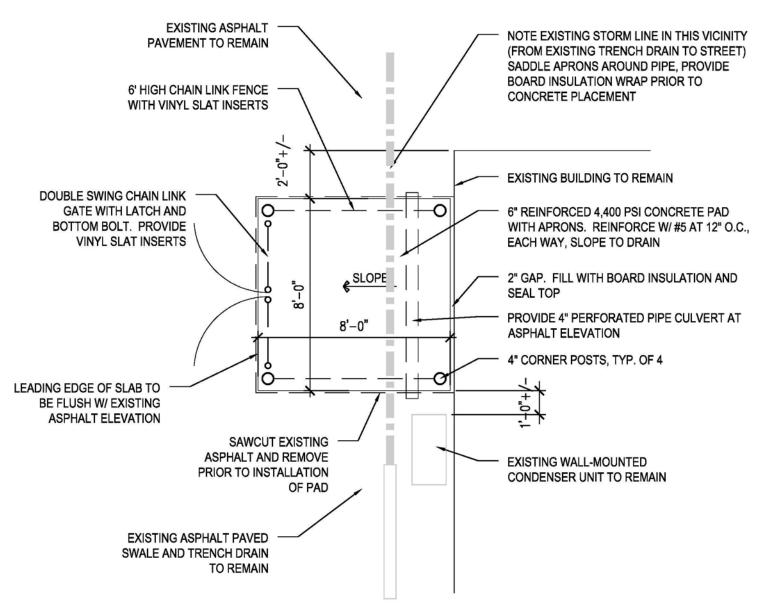
SCALE: 1 1/2" = 1'-0"

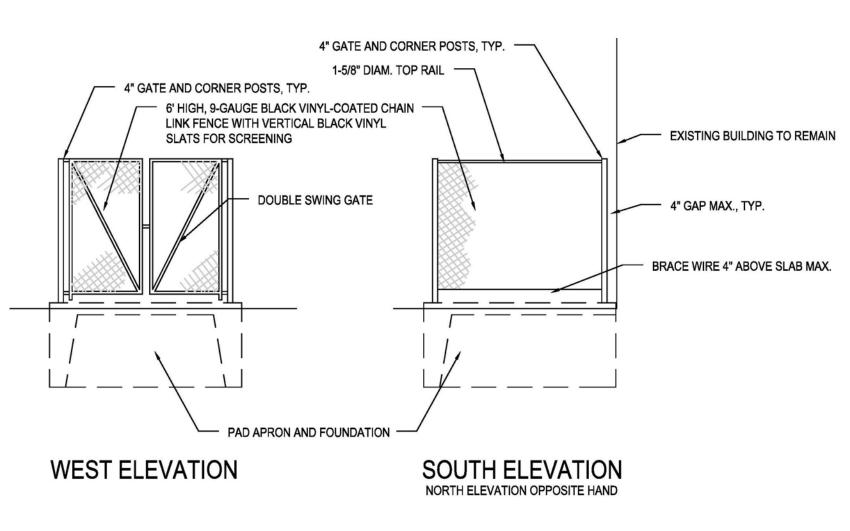
MILLWORK DETAIL - CABINET WITH DRAWER

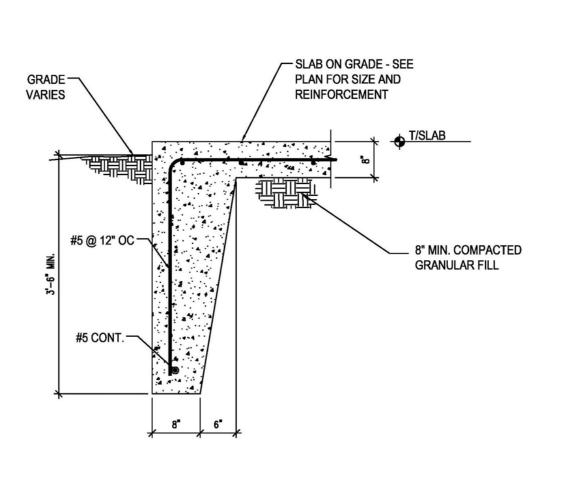
SCALE: 1 1/2" = 1'-0"

6 MILLWORK DETAIL
SCALE: 1 1/2" = 1'-0"

7 MILLWORK DETAIL - ADA-COMPLIANT SINK
SCALE: 1 1/2" = 1'-0"



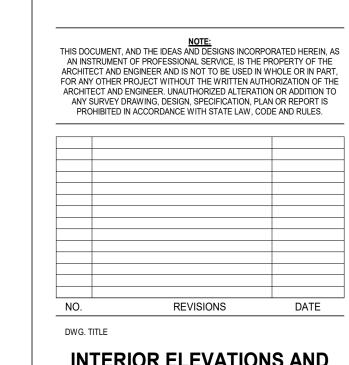




9 DUMPSTER ENCLOSURE ELEVATIONS

DUMPSTER PAD APRON DETAIL

SCALE 3/4" = 1'-0"



Office Building Renovations

Phase 2

840 NORTH MAIN STREET

LEOMINSTER, MA 01420

CONSTRUCTION

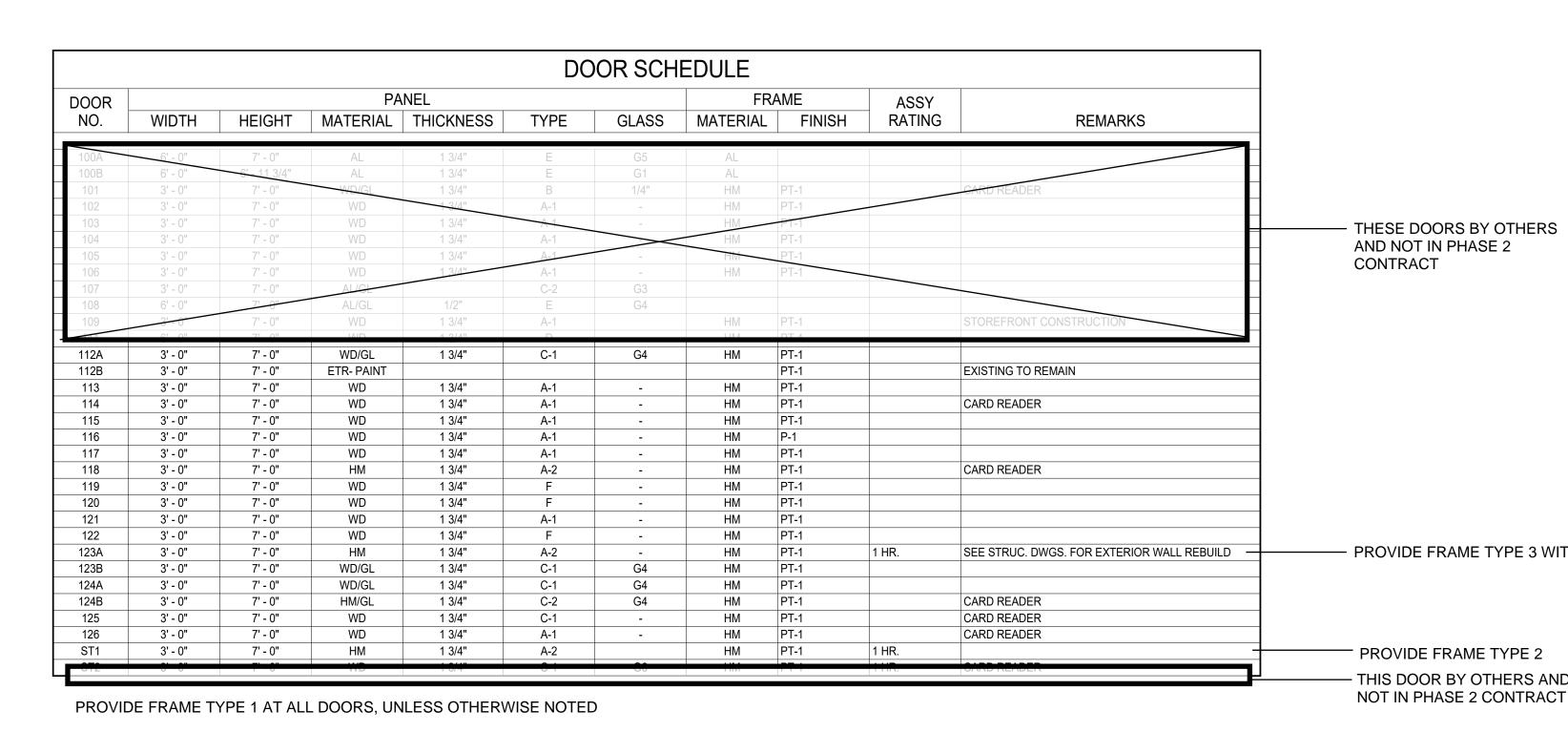
DOCUMENTS

603 King Street, 4th Floor Alexandria, VA 22314 www.wendelcompanies.com p:703.299.8718 tf:877.293.6335

Wendel Architecture, P.C

INTERIOR ELEVATIONS AND DETAILS

SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING. IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY DATE 09-30-2021 SCALE As indicated DWN. SMJ CHK. DEK PROJ. No. 610101 DWG. No.



GLAZING LEGEND:

- (G1) 1" INSULATED GLASS
- (G2) 1/4" CLEAR VISION GLASS
- (G3) 1" TEMPERED SAFETY INSULATED GLASS
- (G4) 1/4" TEMPERED SAFETY VISION GLASS (G5) 1" TEMPERED SAFETY INSULATED SPANDREL GLASS
- G6 FIRE RATED GLAZING

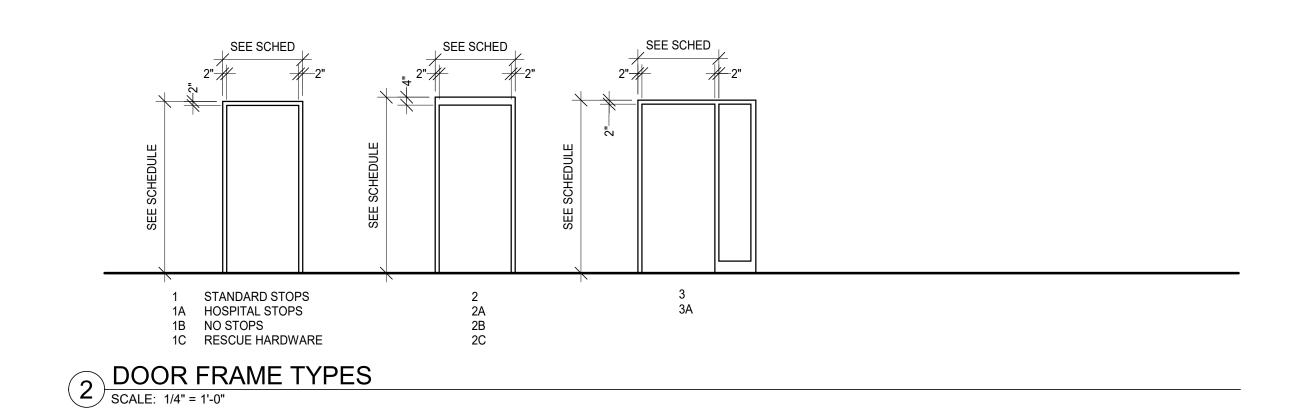
— PROVIDE FRAME TYPE 3 WITH 1-HR RATED HOLLOW METAL INSULATED PANEL AT SIDELIGHT

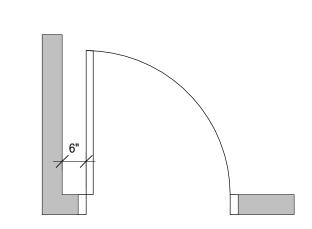
PROVIDE FRAME TYPE 2 - THIS DOOR BY OTHERS AND NOT IN PHASE 2 CONTRACT

CONTRACT

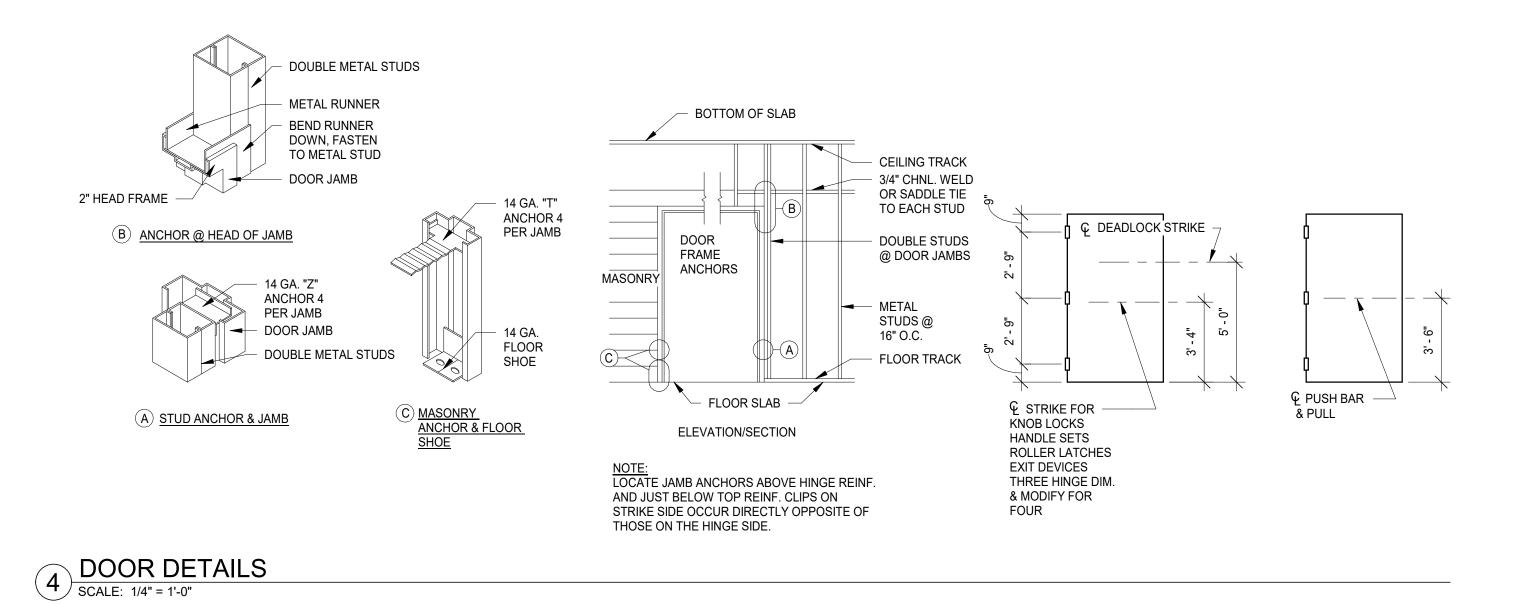
C-2 STOREFRONT CONSTRUCTION DOOR TYPES

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





3 TYPICAL DOOR LOCATION
SCALE: 1/2" = 1'-0"



Office Building Renovations Phase 2

> 840 NORTH MAIN STREET LEOMINSTER, MA 01420

CONSTRUCTION **DOCUMENTS**



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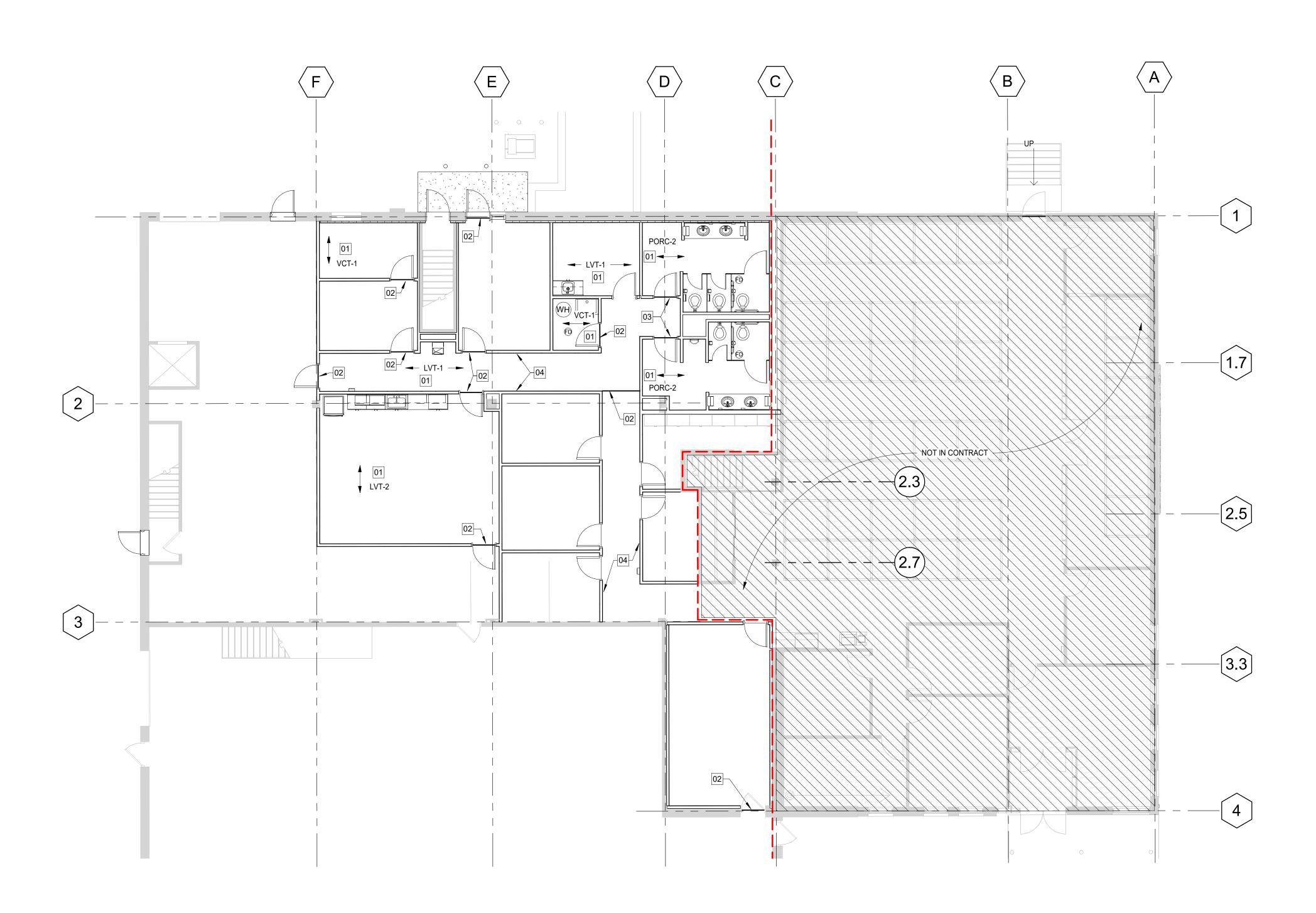
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REVISIONS DWG. TITLE

> DOOR SCHEDULE AND **DETAILS**

SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING. IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY DATE 09-30-2021 SCALE As indicated DWN. CJS CHK. DEK PROJ. No. 610101

A901.2



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

FINISH SPECIFICATIONS:

FIINI	<u> </u>	JIFICATIONS:			
FLOORI	<u>NG</u>		BASE		
CPT-1	MFR: STYLE: STYLE #: COLOR: SIZE: INSTALL:	MOHAWK FIRST STEP II QL315 TBD 24X24 MONOLITHIC	VB-1	MFR: COLOR: HEIGHT: STYLE: LENGTH:	JOHNSONITE/TARKETT TBD 4" COVE CONTINIUOUS
	DESCRIPTION: LOCATION:	WALK-OFF CARPET TILE VESTIBULE	PTB-1	MFR: STYLE: COLOR:	TBD TBD TBD
CPT-2	MFR: STYLE: STYLE #: COLOR: SIZE: INSTALL: DESCRIPTION: LOCATION:	TBD TBD TBD TBD TBD TBD CARPET TILE OPEN OFFICE		SIZE: DESCRIPTION: LOCATION:	TBD PORCELAIN TILE BASE RECEPTION
CPT-3	MFR: STYLE: STYLE #: COLOR: SIZE: INSTALL: DESCRIPTION: LOCATION:	TBD TBD TBD TBD TBD TBD CARPET TILE TYP. CARPET			
PORC-1	MFR: STYLE: COLOR: COLOR #: SIZE: INSTALL: DESCRIPTION: LOCATION:	TBD TBD TBD TBD 12X24 ASHLAR PORCELAIN FLOOR TILE RECEPTION			

PT-1	MFR: COLOR: COLOR #: FINISH: DESCRIPTION:	TBD TBD TBD TBD DOOR FRAMES
PT-2	MFR: COLOR: COLOR #: FINISH: DESCRIPTION:	TBD TBD TBD TBD FIELD PAINT
PT-3	MFR: COLOR: COLOR #: FINISH: DESCRPITION:	SHERWIN-WILLIAMS TBD TBD TBD ACCENT PAINT
PT-4	MFR: COLOR: COLOR #: FINISH: DESCRIPTION:	SHERWIN-WILLIAMS TBD TBD TBD ACCENT PAINT
PT-5	MFR: COLOR: COLOR #: FINISH: DESCRIPTION:	SHERWIN-WILLIAMS TBD TBD TBD CEILING PAINT

				Room Fin	ish Schedule Phase	2		
Number	Floor Finish	Base Finish	Wall Finish All	Wall Finish - North	Wall Finish - East	Wall Finish - South	Wall Finish - West	Notes
•								
112	CPT-3	VB-1		PT-2	PT-3	PT-2	PT-2	
113	CPT-3	VB-1	PT-2					
114	CPT-3	VB-1	PT-2					
115	CPT-3	VB-1		PT-4	PT-2	PT-2	PT-2	
116	CPT-3	VB-1		PT-2	PT-2	PT-4	PT-2	
117	CPT-3	VB-1		PT-2	PT-2	PT-4	PT-2	
118	LVT-1	VB-1	PT-2					
119	PORC-2	PTB-2		PORC-3/PT-2	PT-2	PORC-3/PT-2	PT-2	
120	PORC-2	PTB-2		PORC-3/PT-2	PT-2	PORC-3/PT-2	PT-2	
121	LVT-1	VB-1		PT-2	PT-2	PT-3	PT-2	
122	VCT-1	VB-1		FRP	FRP	PT-2	PT-2	PROVIDE FULL HEIGHT FRP PLASTIC PANEILING AT WALLS ABUTTING MOP SINK
123	CPT-3	VB-1	PT-2					
124	LVT-2	VB-1		PT-2	PT-2	PT-2	PT-3	
125	CPT-3	VB-1	PT-2					
126	VCT-1	VB-1	PT-2					
	112 113 114 115 116 117 118 119 120 121 122 123 124 125	112 CPT-3 113 CPT-3 114 CPT-3 115 CPT-3 116 CPT-3 117 CPT-3 118 LVT-1 119 PORC-2 120 PORC-2 121 LVT-1 122 VCT-1 123 CPT-3 124 LVT-2 125 CPT-3	112	112	Number Floor Finish Base Finish Wall Finish All Wall Finish - North 112 CPT-3 VB-1 PT-2 113 CPT-3 VB-1 PT-2 114 CPT-3 VB-1 PT-2 115 CPT-3 VB-1 PT-2 116 CPT-3 VB-1 PT-2 117 CPT-3 VB-1 PT-2 118 LVT-1 VB-1 PT-2 119 PORC-2 PTB-2 PORC-3/PT-2 120 PORC-2 PTB-2 PORC-3/PT-2 121 LVT-1 VB-1 PT-2 122 VCT-1 VB-1 PT-2 123 CPT-3 VB-1 PT-2 124 LVT-2 VB-1 PT-2 125 CPT-3 VB-1 PT-2	Number Floor Finish Base Finish Wall Finish All Wall Finish - North Wall Finish - East 112 CPT-3 VB-1 PT-2 PT-3 113 CPT-3 VB-1 PT-2 PT-2 114 CPT-3 VB-1 PT-2 PT-2 115 CPT-3 VB-1 PT-2 PT-2 116 CPT-3 VB-1 PT-2 PT-2 117 CPT-3 VB-1 PT-2 PT-2 118 LVT-1 VB-1 PT-2 PT-2 119 PORC-2 PTB-2 PORC-3/PT-2 PT-2 120 PORC-2 PTB-2 PORC-3/PT-2 PT-2 121 LVT-1 VB-1 PT-2 PT-2 122 VCT-1 VB-1 PT-2 PT-2 123 CPT-3 VB-1 PT-2 PT-2 124 LVT-2 VB-1 PT-2 PT-2 125 CPT-3 VB-1 PT-2 PT-2	112	Number Floor Finish Base Finish Wall Finish All Wall Finish - North Wall Finish - East Wall Finish - South Wall Finish - West

PLASTIC LAMINATE

COLOR: COLOR #: FINISH:

COLOR: COLOR #:

FINISH:

TBD TBD

TBD TBD TBD

DESCRIPTION: COUNTER LOCATION: COPY/PRINT

DESCRIPTION: CABINETS LOCATION: COPY/PRINT

PLAM-1 MFR:

PLAM-2 MFR:

GENERAL FINISH NOTES:

CONTRACTOR TO SUBMIT (3) SETS OF 8" X 10" SAMPLES TO ARCHITECT FOR APPROVAL, PRIOR TO ORDERING. THIS IS INCLUSIVE OF ALL FINISH SAMPLES.

FLOOR FINISH NOTES:

1. VCT FLOORING IS TO BE RUN IN A MONOLITHIC PATTERN.

- ALL MATERIALS SHALL BE APPLIED IN ACCORDANCE WITH SPECIFICATIONS AND MANUFACTURERS' RECOMMENDATIONS.
- 3. PROVIDE VINYL REDUCER STRIPS BETWEEN CARPET AND VINYL FLOORING; STRIPS SHOULD BE CENTERED UNDER DOORS; COLOR TO BE SELECTED BY ARCHITECT.
- 4. CONTRACTOR TO CORRECTLY TREAT ALL SEAM AND EDGES ACCORDING TO
 MANUFACTURERS RECOMMENDED INSTALLATION METHODS AT ALL CARPET-TO-CARPET
 TRANSITIONS. CONTRACTOR TO SUBMIT SEAMING DIAGRAM TO ARCHITECT FOR
- CONTRACTOR TO COORDINATE ALL DOOR SWINGS WITH FLOOR MATERIAL FOR FREE AND CLEAR SWING.

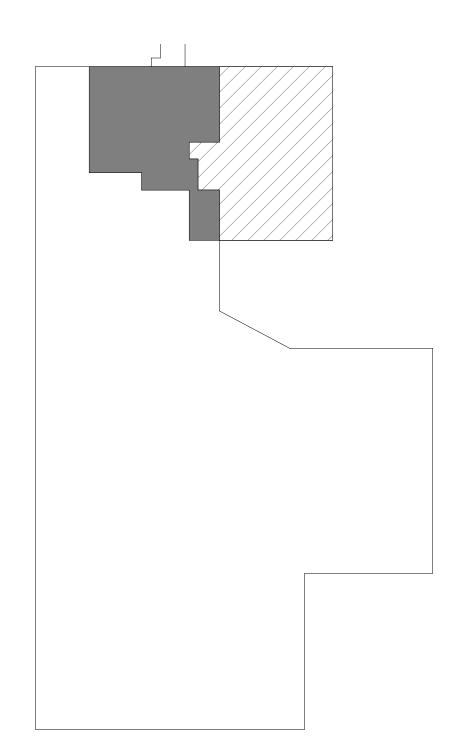
APPROVAL; SEAMING DIAGRAM SUBJECT TO ADJUSTMENT OR CHANGE AS REQUIRED.

- CONTRACTOR TO FLASH PATCH ALL FLOORS AS REQUIRED TO SATISFY ALL ASSEMBLY AND INSTALLATION REQUIREMENTS.
- CLEAN ALL GLUE FROM VCT FLOORING INSTALLATION AND PROVIDE ONE COAT OF MANUFACTURER'S APPROVED POLISHED WAX FINISH. FLASH PATCH AT ALL TRANSITIONS.
- 8. CARPET TO TILE TRANSITION STRIP SCHLUTER EDGE STRIP. TRANSITION STRIP TO MATCH TILE HEIGHT.
- 9. ALL GROUT TO BE EPOXY BASED (NOT CEMENT BASED) UNLESS OTHERWISE NOTED.
- 10. ALL VINYL WALL BASE SHALL BE PROVIDED IN CONTINUOUS RUNS.
- 11. ALL STATIC DISSIPATIVE TILE TO BE CONNECTED TO AN ELECTRICAL GROUND (ie: BUILDING STEEL OR GROUND BUS BAR). GC TO COORDINATE WITH ELECTRICAL CONTRACTOR.
- WALL FINISH NOTES:
- ALL MATERIALS SHALL BE APPLIED IN ACCORDANCE WITH SPECIFICATIONS AND MANUFACTURERS' RECOMMENDATIONS.
- 2. ALL FINISHES AT CLOSETS TO MATCH THE ROOM IN WHICH THEY OCCUR.
- 3. ALL PAINT GRADE CLOSET SHELVES SHALL RECEIVE THREE COATS OF SEMI-GLOSS PAINT TO MATCH THE WALL IN WHICH THEY OCCUR UNLESS OTHERWISE NOTED.
- 4. ALL EXISTING METAL DOORS AND FRAMES TO BE BRUSHED, SANDED AND FILLED AS REQUIRED FOR A "LIKE NEW" APPEARANCE AND SUBJECT TO ARCHITECT'S APPROVAL IN FIELD. DOORS TO BE PROPERLY PRIMED PRIOR TO RECEIVING FINAL FINISH PAINT
- ALL FIRE EXTINGUISHER CABINETS AND FIRE STANDPIPE CABINETS TO BE PRIMED AND PAINTED IN A SEMI-GLOSS FINISH TO MATCH THE WALL FINISH IN WHICH THEY OCCUR UNLESS OTHERWISE NOTED.
- 6. PATCH AND REPAIR WALL SURFACES AS REQUIRED TO PROVIDE SMOOTH SURFACE READY TO RECEIVE NEW WALLCOVERING.
- 7. THERE SHALL BE A MINIMUM NUMBER OF (1) PRIMER COAT AND (2) FINISH COATS.

 MAXIMUM NUMBER OF COATS SHALL BE AS REQUIRED TO OBTAIN UNIFORM COLOR AND SHEEN
- 8. PAINT SHALL BE LATEX EGGSHELL/FLAT (SELECT ONE) FINISH AT GYP BD PARTITIONS. SEMI-GLOSS FINISH AT FLOORS, FRAME AND CONVECTORS, AND FLAT FINISH AT CEILINGS, UNLESS OTHERWISE NOTED.

FINISH KEYNOTES: X

- 01 ARROWS REPRESENT INSTALL DIRECTION OF SPECIFIED FLOORING FINISH.
- 02 PROVIDE TRANSITION STRIP AS REQUIRED IN THIS LOCATION.
 03 PROVIDE MARBIET THRESHOLD AT RESTROOM FLOORING TRANSITIONS.
- PROVIDE MARBLE THRESHOLD AT RESTROOM FLOORING TRANSITIONS
 PAINT 12" ACCENT STRIPE TO MATCH EXISTING; BENJAMIN MOORE UTAH SKY, 2065-40 (CORRIDORS)



KEYPLAN



MART
Office Building Renovations
Phase 2

840 NORTH MAIN STREET LEOMINSTER, MA 01420

CONSTRUCTION DOCUMENTS



Wendel WD Architecture, Engineering, Surveying and Landscape Architecture, P.C

FINISH PLAN, SCHEDULE AND SPECIFICATIONS

REVISIONS

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0 1" 2"

GENERIC SCALE BAR

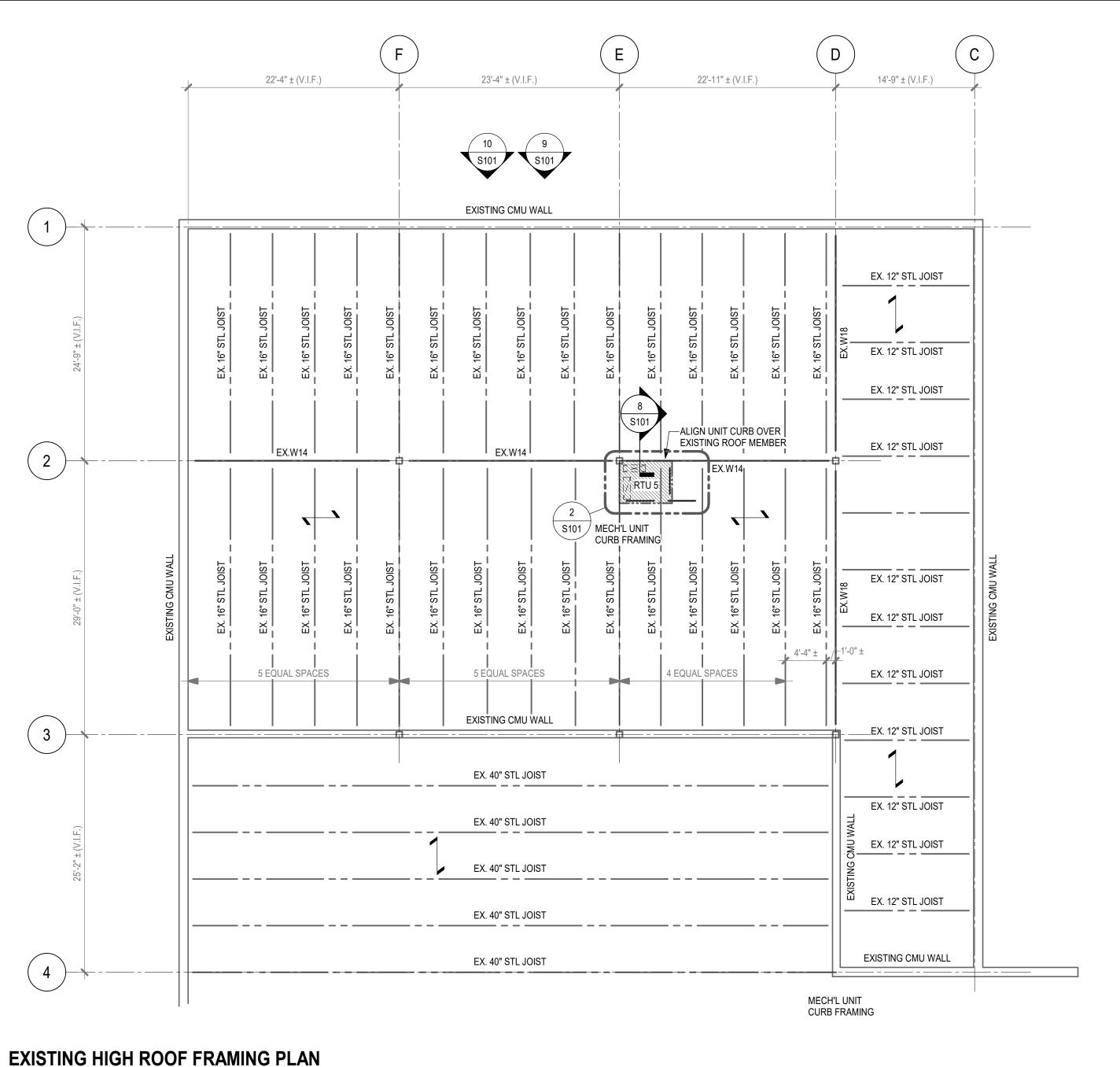
SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING.
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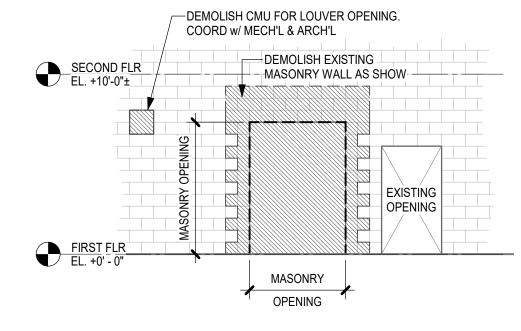
DATE 09-30-2021

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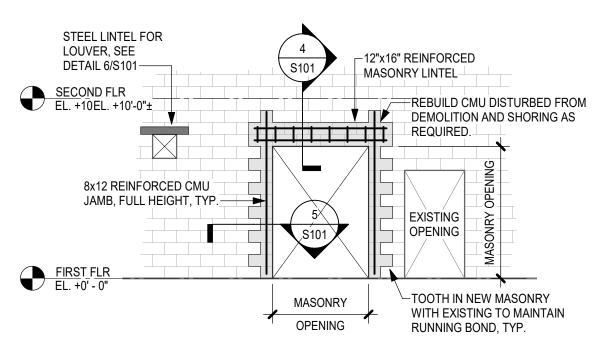




REINFORCED MASONRY OPENING SCALE: 3/16" = 1'-0"

DEMOLITION AND SHORING NOTES:

- 1. EXISTING MASONRY WALL IS A LOAD BEARING WALL. PRIOR TO THE START OF DEMOLITION, CONTRACTOR SHALL INSTALL TEMPORARY BRACING AND SHORING AS REQUIRED FOR SAFETY, STABILITY, AND ALIGNMENT OF THE STRUCTURE. CONTRACTOR SHALL ENGAGE A PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF MASSACHUSETTS, TO DEVELOP A MASONRY WALL SHORING PLAN.
- 2. BRACING AND SHORING SHALL BE KEPT IN PLACE UNTIL PERMANENT STRUCTURAL SUPPORT IS FULLY EFFECTIVE. ALL SHORING REQUIREMENTS ARE MEANS AND METHODS, SOLELY
- RESPONSIBLE BY THE CONTRACTOR. 3. DEMOLITION AND CONSTRUCTION WORK SHALL BE EXECUTED IN A SAFE, CAREFUL AND ORDERLY MANNER, WITH THE LEAST POSSIBLE NOISE, DUST AND DISTURBANCE TO THE OWNER. CONTRACTOR SHALL COORDINATE CONSTRUCTION SEQUENCING WITH THE OWNER SO AS NOT TO DISRUPT THE OWNER'S OPERATIONS.
- CONTRACTOR SHALL PROTECT EXISTING BUILDING CONSTRUCTION AND EQUIPMENT SCHEDULED TO REMAIN. COORDINATE DEMOLITION WITH THE DRAWINGS. REMOVE FROM PROJECT SITE ALL DEMOLISHED MATERIALS NOT INDICATED TO BE SALVAGED. ALL DEMOLISHED MATERIALS BECOME THE PROPERTY OF THE CONTRACTOR WHO SHALL LEGALLY DISPOSE OF SUCH
- MATERIALS. 5. FOR ALL REMOVALS, THE CONTRACTOR SHALL PATCH REMAINING SURFACES AS REQUIRED TO MATCH EXISTING ADJACENT SURFACES. CONTRACTORS SHALL PROTECT EXISTING CONDITIONS AND REPAIR ALL DAMAGED AREAS PROMPTLY TO ITS ORIGINAL CONDITION.



MASONRY WALL DEMOLITION

DESIGN LOADS

EQUIPMENT LOADS:

BUILDING RISK CATEGORY:

SNOW EXPOSURE FACTOR (Cs):

SNOW IMPORTANCE FACTOR (Is):

SNOW EXPOSURE FACTOR (Ce):

THERMAL FACTOR (Ct) - HEATED:

ULTIMATE BASIC WIND SPEED (V):

SEISMIC IMPORTANCE FACTOR (Ie):

SHORT PERIOD MAPPED ACCELERATION (SS):

SHORT PERIOD DESIGN ACCELERATION (SDS):

1 SECOND PERIOD MAPPED ACCELERATION (S1):

1 SECOND PERIOD DESIGN ACCELERATION (SD1):

PROJECT LOCATION ZIP CODE:

SEISMIC DESIGN CATEGORY:

EXPOSURE CATEGORY:

SITE CLASS:

BUILDING FLAT ROOF SNOW LOAD (Pf):

GROUND SNOW LOAD (Pg):

ORIGINAL BUILDING FLAT ROOF SNOW LOAD (Pf):

SNOW LOADS - FOR THE DESIGN OF NEW CONSTRUCTION.

WIND DESIGN CRITERIA - FOR DELEGATED ROOF CURBS & CONNECTIONS:

SEISMIC DESIGN CRITERIA - FOR DELEGATED ROOF CURBS & CONNECTIONS:

<u>DESIGN CODE</u>: THE 2018 MASSACHUSETTS STATE BUILDING CODE

PROFESSIONAL ENGINEER, PROVING THAT THE EXISTING STRUCTURE CAN SUPPORT THE

HISTORIC SNOW LOADS – FOR ANALYSIS OF EXISTING STRUCTURE:
GROUND SNOW LOAD (Pg): 30 PSF (ORIGINAL CODE)

0.8 (ASSUMED, ORIGINAL CODE)

24 PSF

42 PSF

01453

D (ASSUMED)

0.201

0.215

0.112

2. ALL WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE BUILDING CODE OF MASSACHUSETTS STATE, THE AISC CODE, THE AMERICAN WELDING SOCIETY CODE (AWS) AND ALL OTHER APPLICABLE STANDARDS. IN CASES OF CONFLICT, THE MOST STRINGENT SHALL GOVERN. EQUIPMENT LOADS ARE THE TOTAL WET WEIGHTS INCLUDING CURBS. IF THE EQUIPMENT SUBMITTED EXCEEDS THE BASIS OF DESIGN EQUIPMENT LOADS, THE CONTRACTOR SHALL SUBMIT

GENERAL NOTES

3. FOR ALL CONSTRUCTION MATERIALS AND METHODS, THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY BRACING, BRIDGING, OR SHORING AS REQUIRED FOR SAFETY, STABILITY, AND ALIGNMENT OF THE A COMPREHENSIVE STRUCTURAL ANALYSIS, SIGNED AND STAMPED BY A MASSACHUSETTS STATE STRUCTURE. BRACING AND SHORING SHALL BE KEPT IN PLACE UNTIL PERMANENT STRUCTURAL SUPPORT IS FULLY EFFECTIVE. PROPOSED EQUIPMENT. THIS SHALL BE PROVIDED AT NO ADDITIONAL EXPENSE TO THE OWNER.

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO PREPARATION OF SHOP

4. DELEGATED DESIGN ITEMS ARE REQUIRED. REFER TO PROJECT SPECIFICATIONS FOR DESIGN CRITERIA AND OTHER PROJECT REQUIREMENTS. 5. REFER TO PROJECT SPECIFICATIONS FOR TESTING, INSPECTION, AND OTHER REQUIREMENTS.

CONCRETE & REINFORCING

- 1. CONCRETE SHALL BE NORMAL WEIGHT (UON) AND HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS:
- A. EXTERIOR SLABS ON GRADE 5000 PSI ALL BAR REINFORCEMENT SHALL CONFORM TO ASTM 615, GRADE 60. WELDED WIRE FABRIC
- REINFORCEMENT SHALL CONFORM TO ASTM A1065. 3. ALL WORKMANSHIP AND MATERIAL SHALL CONFORM TO THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI-315), AND BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI-318).

CONCRETE MASONRY

- 1. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES" (ACI-530) AND SPECIFICATIONS (ACI 530.1).
- 2. CONCRETE MASONRY MATERIALS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: A. HOLLOW CONCRETE MASONRY UNITS CONFORMING TO ASTM C90, TYPE I, WITH A MINIMUM NET COMPRESSIVE STRENGTH OF 2800 PSI.
- B. TYPE S MORTAR FOR REINFORCED MASONRY, IN ACCORDANCE WITH ASTM C270, WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 1800 PSI.

C. GROUT FOR REINFORCED MASONRY, IN ACCORDANCE WITH ASTM C476, WITH A MINIMUM 28 DAY

- COMPRESSIVE STRENGTH OF 3000 PSI. GROUT SOLID ALL BOND BEAMS AND CORES WITH VERTICAL REINFORCING. D. THE MASONRY SYSTEM HAS BEEN DESIGNED FOR A MINIMUM 28-DAY COMPRESSIVE STRENGTH
- (F'm) OF 2000 PSI. PROVIDE REINFORCING BARS CONFORMING TO ASTM A615, GRADE 60. PROVIDE CONTINUOUS 9-GAGE HORIZONTAL JOINT REINFORCING AT 16 INCHES VERTICAL SPACING.

STRUCTURAL STEEL

- 1. DETAIL, FABRICATE AND ERECT STRUCTURAL STEEL IN CONFORMANCE WITH THE AISC SPECIFICATIONS
- AND CODES, LATEST EDITIONS. 2. PERFORM ALL WELDING USING QUALIFIED WELDERS AND IN ACCORDANCE WITH THE AWS "STRUCTURAL WELDING CODE - STEEL", LATEST EDITION.
- 3. ALL STRUCTURAL STEEL SHALL BE NEW STEEL WHICH CONFORMS TO ASTM WITH THE FOLLOWING MINIMUM FOR YIELD STRESS (Fy): 36 KSI, ASTM A36
- B. WELDING ELECTRODE E70XX 4. FOR CONNECTIONS TO THE EXISTING STRUCTURE, THE CONTRACTOR SHALL MAKE ALL NECESSARY MEASUREMENTS AND COORDINATE DETAILS WITH THE EXISTING CONDITIONS, PRIOR TO PREPARATION OF SHOP DRAWINGS.

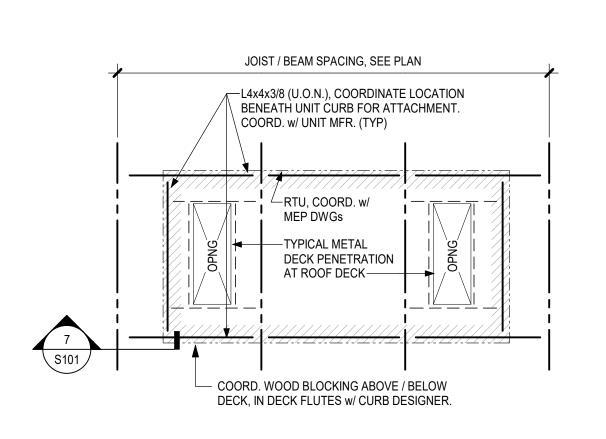
A. ALL STEEL

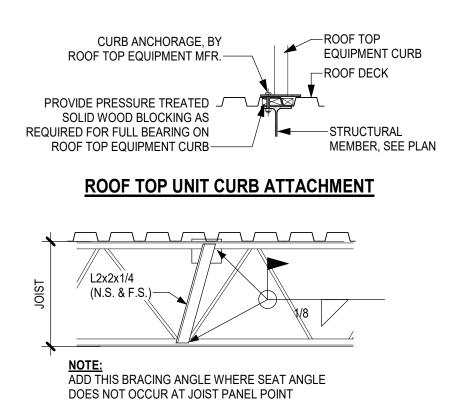
- 1. FABRICATE METAL DECKING FROM STEEL, WHICH CONFORMS TO ASTM A653, HAVING A MINIMUM YIELD STRENGTH OF 33 KSI. HOT DIP GALVANIZE ROOF DECK TO G90 REQUIREMENTS AND ALL OTHER METAL DECK TO G60 REQUIREMENTS.
- FASTEN FLOOR DECKING AT 12 INCHES MAXIMUM ON CENTER TO THE SUPPORTING STEEL WITH A 5/8-INCH DIAMETER WELD. FASTEN SIDE LAPS AT 36 INCHES MAXIMUM ON CENTER.
- 3. FASTEN ROOF DECKING AT 12 INCHES MAXIMUM ON CENTER TO THE SUPPORTING STEEL WITH A 5/8-INCH DIAMETER WELD. WELD SIDE LAPS AT 12 INCHES MAXIMUM ON CENTER.

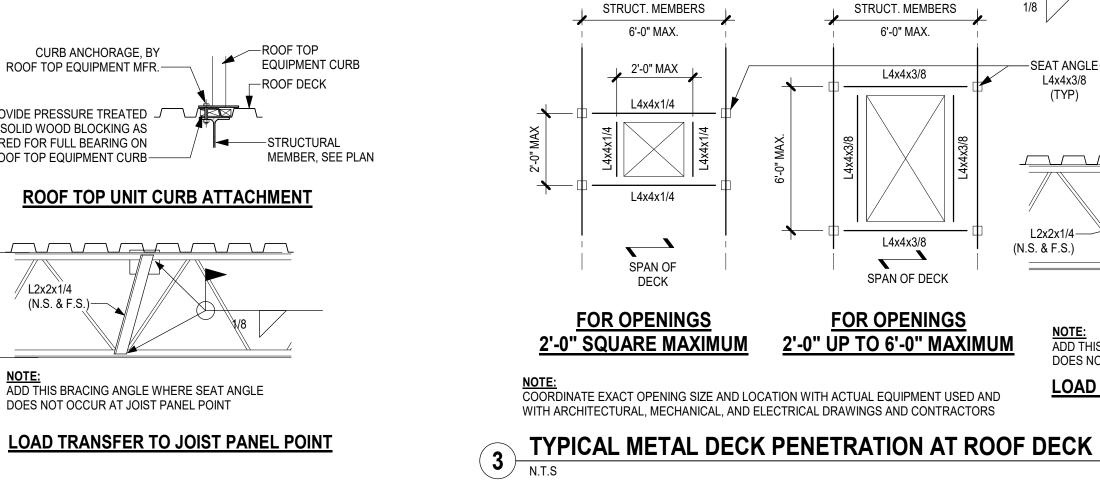
DELEGATED DESIGN

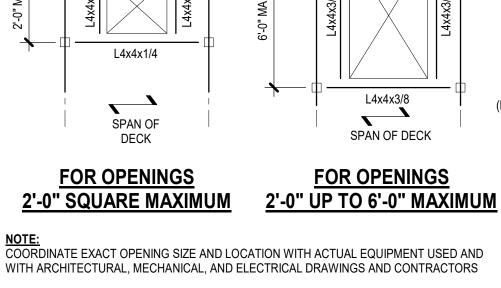
- 1. DELEGATED DESIGN ITEMS SHALL BE DESIGNED, INCLUDING A COMPREHENSIVE ENGINEERING ANALYSIS, BY A QUALIFIED PROFESSIONAL ENGINEER USING PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA INDICATED IN THE DRAWINGS, PROJECT SPECIFICATIONS, AND APPLICABLE CODES.
- BUILDING SYSTEMS AND COMPONENTS DESIGNATED AS DELEGATED DESIGN, AS INDICATED IN THE PROJECT SPECIFICATIONS, INCLUDE BUT ARE NOT LIMITED TO:
- A. CONNECTIONS AND SUPPORT FOR ALL M.E.P. EQUIPMENT & COMPONENTS. MAJOR COMPONENTS INCLUDE BUT ARE NOT LIMITED TO: a. ROOF TOP UNIT CURBS AND CONNECTION TO EXISTING STRUCUTRE

- 1. INDICATES SPAN DIRECTION OF EXISTING METAL ROOF DECK.
- 2. AREAS OF FRAMING SHALL BE CLEARED OF ALL OBSTRUCTIONS. REMOVE AND REPLACE ALL LINES, CONDUITS, MECHANICAL & ELECTRICAL EQUIPMENT AND ALL OTHER OBSTRUCTIONS AS
- REQUIRED FOR THE COMPLETION OF WORK. 3. ROOF CURB CONNECTION SHALL BE DESIGNED BY THE DELEGATED CURB ENGINEER.
- 4. COORDINATE ALL ROOF PENETRATIONS w/ MECHANICAL AND APPROVED EQUIPMENT DIMENSIONS.
- 5. WHERE EXISTING ROOF DECK PENETRATION INFILL IS REQUIRED, PROVIDE 1 1/2"x18ga. GALV. (G90) TYPE B METAL ROOF DECK. NEW DECKING SHEETS SHALL SPAN TO EXISTING JOIST SUPPORTS AND SHALL BE FASTENED AS INDICATED. PROVIDE ADDITIONAL PENETRATION INFILL FRAMING PER 3/S101 AS REQUIRED.









STRUCT. MEMBERS

6'-0" MAX.

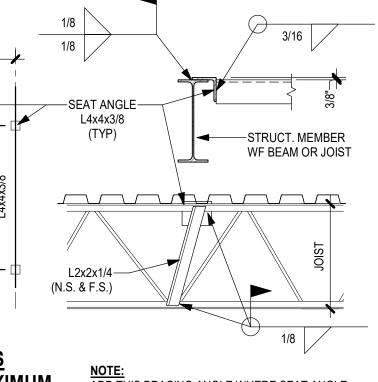
L4x4x3/8

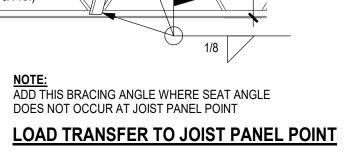
STRUCT. MEMBERS

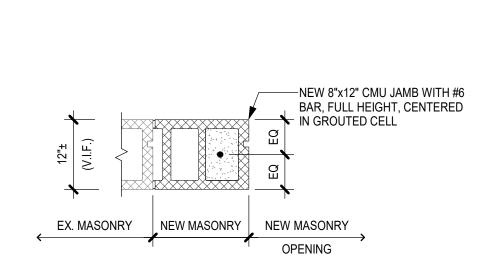
6'-0" MAX.

2'-0" MAX

L4x4x1/4







1'-0"

GROUT CELLS SOLID-

MASONRY LINTEL

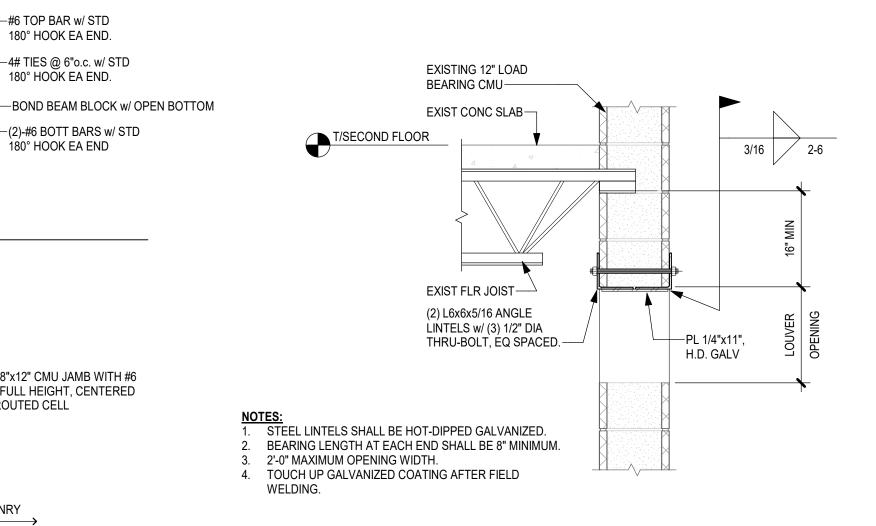
-#6 TOP BAR w/ STD 180° HOOK EA END.

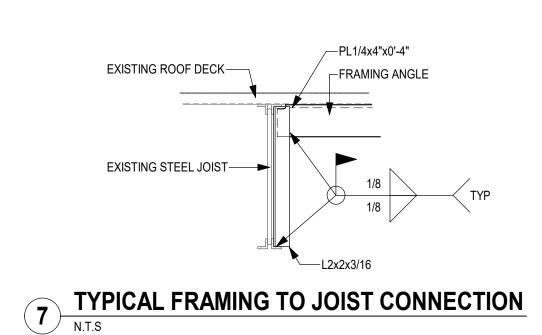
-4# TIES @ 6"o.c. w/ STD

-(2)-#6 BOTT BARS w/ STD 180° HOOK EA END

180° HOOK EA END.

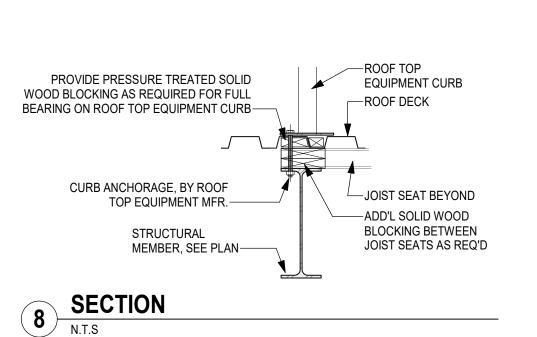




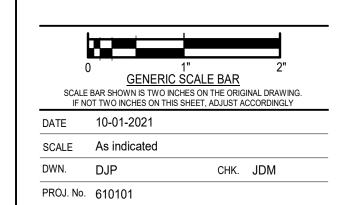


2 TYPICAL MECHANICAL UNIT CURB FRAMING

N.T.S







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PARTIAL EXISTING ROOF FRAMING PLAN AND DETAILS

DWG. TITLE

MART CALL CENTER

840 NORTH MAIN STREET

CONSTRUCTION

DOCUMENTS

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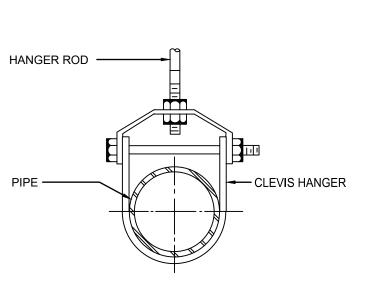
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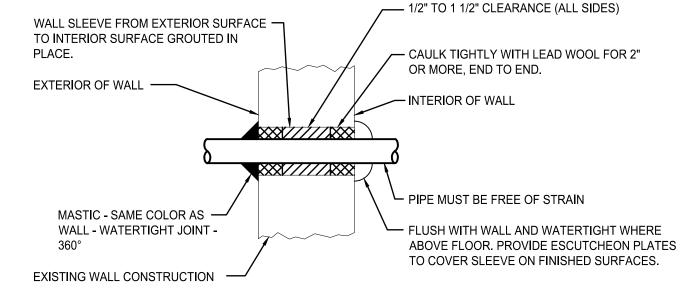
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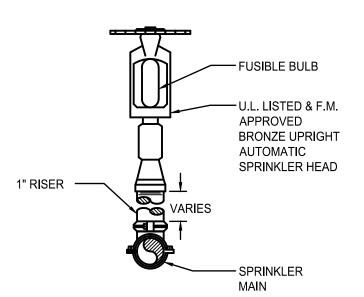
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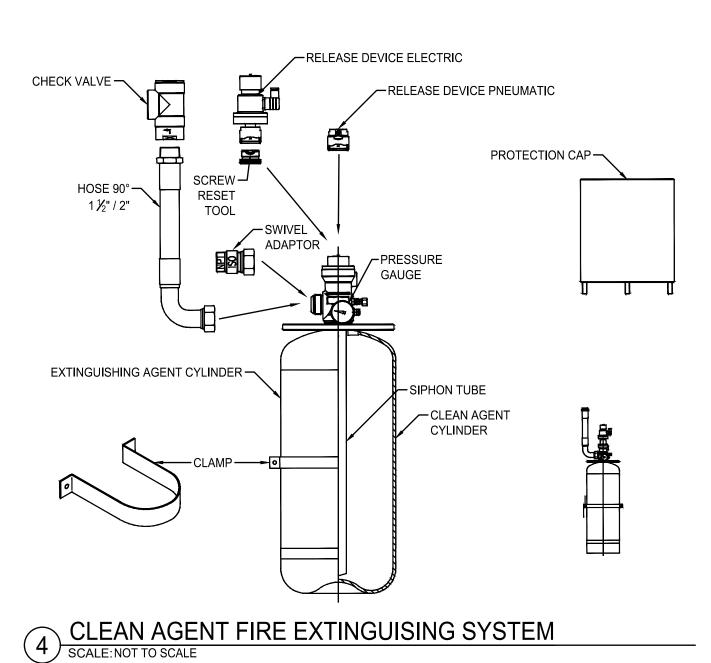


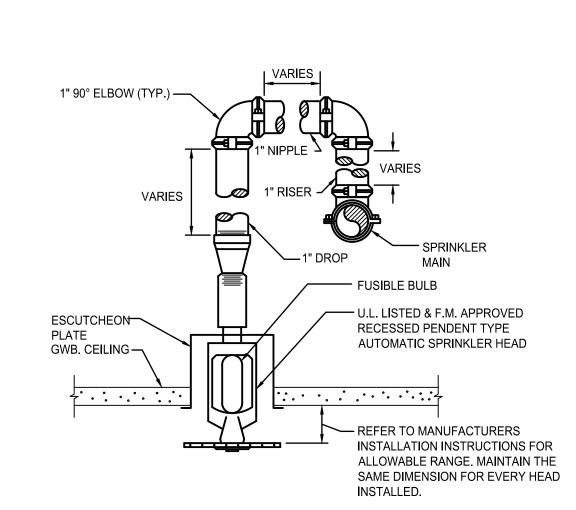




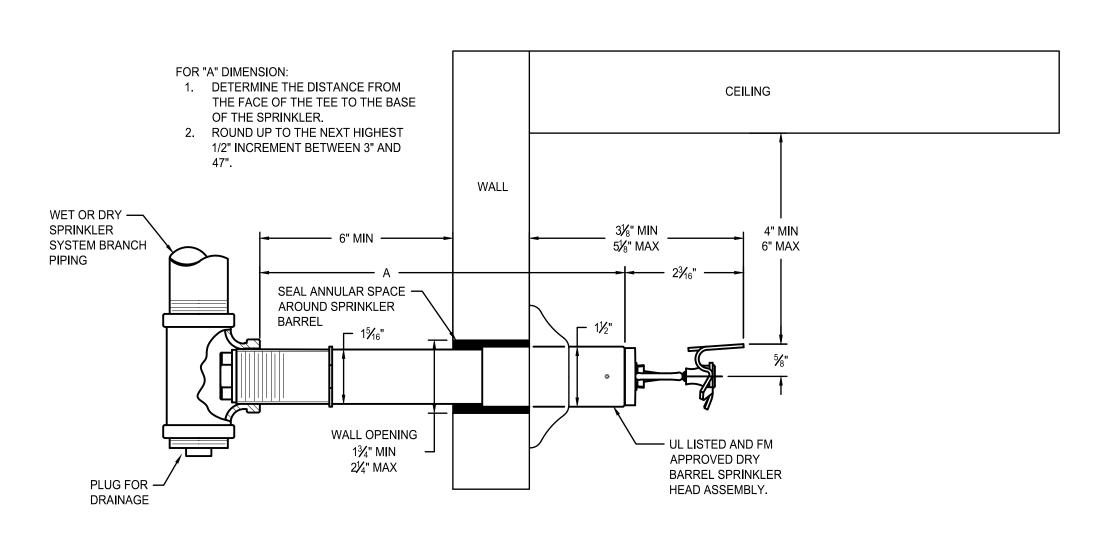
PIPE SLEEVE THROUGH INTERIOR WALL-ABOVE GRADE
SCALE: NOT TO SCALE

3 TYPICAL UPRIGHT SPRINKLER RISER DETAIL
SCALE: NOT TO SCALE





TYPICAL SEMI-RECESSED PENDENT SPRINKLER RISER DETAIL
SCALE: NOT TO SCALE



TYPICAL SIDEWALL DRY BARREL SPRINKLER DETAIL (6) SCALE: NOT TO SCALE

FIRE PROTECTION SPECIFICATION:

1. SCOPE OF WORK

- A. PROVIDE AN NFPA 13 COMPLIANT WET PIPE FIRE PROTECTION SYSTEM. SYSTEM TO BE HYDRAULICALLY DESIGNED AND STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE
- STATE OF MASSACHUSETTS. PROVIDE AN NFPA 2001 COMPLIANT CLEAN AGENT FIRE EXTINGUISHING SYSTEM WITHIN IT ROOM 126. SYSTEM TO BE DESIGNED AND STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MASSACHUSETTS. CONTRACTOR TO PERFORM A THOROUGH INSPECTION OF THE EXISTING CLEAN AGENT SYSTEM IN THE SECOND FLOOR IT ROOM TO ENSURE THAT ALL MAJOR COMPONENTS ARE NFPA 2001 COMPLIANT AND HAS ADEQUATE CAPACITY SO IT CAN BE
- REUSED IN NEW WORK C. SPRINKLER OCCUPANCY HAZARD CLASSIFICATIONS:
 - C.1. BUILDING SERVICE AREAS: ORDINARY HAZARD, GROUP 1 C.2. ELECTRICAL EQUIPMENT ROOMS: ORDINARY HAZARD, GROUP 1
 - C.3. GENERAL STORAGE AREAS: ORDINARY HAZARD, GROUP 1 C.4. KITCHEN AREAS: ORDINARY HAZARD, GROUP 1
 - C.5. MECHANICAL EQUIPMENT ROOMS: ORDINARY HAZARD GROUP 1 C.6. OFFICE AND PUBLIC AREAS: LIGHT HAZARD
- CONTRACTOR TO ARRANGE FOR HYDRANT FLOW TEST AND PRESENT RESULTS WITH HYDRAULIC CALCULATIONS AS PART OF THE SUBMITTAL PACKAGE. FLOW TEST SHALL BE WITHIN 12 MONTHS OF SPRINKLER DRAWING SUBMISSION FOR PERMIT AND IN ACCORDANCE WITH NFPA 13 AND NFPA 291. RECORD AND SUBMIT THE FOLLOWING INFORMATION:
- D.1. DATE D.2. TIME
- D.3. PERFORMED BY
- D.4. LOCATION OF RESIDUAL FIRE HYDRANT R
- D.5. LOCATION OF FLOW FIRE HYDRANT F D.6. STATIC PRESSURE AT RESIDUAL FIRE HYDRANT R (PSIG)
- D.7. MEASURED FLOW AT FLOW FIRE HYDRANT F (GPM) D.8. RESIDUAL PRESSURE AT RESIDUAL FIRE HYDRANT R (PSIG)
- CONTRACTOR IS RESPONSIBLE FOR FILING AND PAYING FOR ALL PERMITS. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE BEST AVAILABLE PRACTICES OF THE TRADES. WHERE A CONFLICT EXISTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR
- THE MOST STRINGENT REQUIREMENT OF THE APPLICABLE CODES, RULES, AND REGULATIONS. G. MATERIALS AND COMPONENTS REQUIRED TO COMPLETE THE WORK UNDER THIS PROJECT SHALL BE NEW FROM THEIR RESPECTIVE MANUFACTURERS. REFURBISHED AND/OR EXISTING MATERIALS ARE NOT ACCEPTABLE UNLESS SPECIFICALLY INDICATED.
- H. DELIVER ALL PIPING, FITTINGS, VALVES AND EQUIPMENT WITH FACTORY APPLIED END-CAPS AND/OR OTHER PROTECTIVE COVERINGS. MAINTAIN THE CAPS AND PROTECTIVE COVERINGS TO PREVENT THE ENTRANCE OF DIRT, DEBRIS AND MOISTURE.
- I. ALL MATERIALS AND SYSTEMS PROVIDED BY THE CONTRACTOR UNDER THIS PROJECT SHALL BE CAREFULLY AND THOROUGHLY CLEANED OF ALL FOREIGN MATTER (E.G. SLUDGE, GREASE, DIRT, DUST, ETC.) PRIOR TO FINAL INSTALLATIONS AND SYSTEMS OPERATION. THE CONTRACTOR SHALL FULLY PROTECT ALL MATERIALS FROM DAMAGE AND SHALL REPAIR OR REPLACE ANY AND ALL DAMAGED MATERIALS AS SOON AS DAMAGE OCCURS AT NO ADDITIONAL COST TO THE OWNER.

- STANDARD PRESSURE, WET PIPE SPRINKLER SYSTEM, NPS 1 ½" AND SMALLER, SHALL BE STANDARD WEIGHT, BLACK STEEL PIPE WITH THREADED ENDS; UNCOATED GRAY IRON
- THREADED FITTINGS AND THREADED JOINTS. B. STANDARD PRESSURE, WET PIPE SPRINKLER SYSTEM, NPS 2 TO NPS 4, SHALL BE STANDARD WEIGHT, BLACK STEEL PIPE WITH CUT, OR ROLL GROOVED ENDS; UNCOATED GROOVED-END FITTINGS FOR STEEL PIPING; GROOVED-END-PIPE COUPLINGS FOR STEEL PIPING; AND GROOVED JOINTS.
- C. CLEAN AGENT SYSTEM PIPING SHALL BE STANDARD WEIGHT BLACK OR GALVANIZED STEEL PIPE WITH THREADED ENDS, MALLEABLE-IRON THREADED FITTINGS AND THREADED JOINTS. ALL CLEAN AGENT PIPING AND AND FITTINGS MUST COMPLY WITH NFPA 2001.
- PIPING SHALL BE INSTALLED TO PITCH BACK TOWARD MAIN SO SYSTEM IS FULLY DRAINABLE
- WHERE PIPING OFFSETS CAUSE WATER TO BE TRAPPED, A NIPPLE, DRAIN VALVE AND HOSE

4. <u>SPRINKLER HEADS</u>

- A. QUICK RESPONSE TYPE, 5.6 K-FACTOR, ½" ORIFICE, 155°F TEMPERATURE RATED, UPRIGHT SPRINKLER. FOR USE IN FINISHED SPACES, WHITE; FOR USE IN UNFINISHED SPACES, ROUGH
- B. QUICK RESPONSE TYPE, 5.6 K-FACTOR, ½" ORIFICE, 155°F TEMPERATURE RATED, SEMI-RECESSED PENDENT SPRINKLER. POLYESTER WHITE WITH WHITE ESCUTCHEONS.
- QUICK RESPONSE TYPE, 5.6 K-FACTOR, ½" ORIFICE, 155°F TEMPERATURE RATED, DRY-BARREL SIDEWALL TYPE. SEMI-RECESSED SIDEWALL INSTALLATION, POLYESTER WHITE FINISH WITH WHITE ESCUTCHEON.
- D. INSTALL ALL PENDENT SPRINKLERS WITH RETURN BEND IN PIPING.

5. <u>TESTS AND INSPECTIONS</u>

- A. FLUSH, TEST AND INSPECT SPRINKLER SYSTEMS PER NFPA 13. "SYSTEM ACCEPTANCE"
- B. LEAK TEST: AFTER INSTALLATION, CHARGE SYSTEM AND TEST FOR LEAKS. REPAIR LEAKS AND RETEST UNTIL NO LEAKS EXIST.
- C. COORDINATE WITH FIRE-ALARM TESTS. OPERATE AS REQUIRED.
- A ROOM PRESSURIZATION TEST SHALL BE CONDUCTED TO DETERMINE THE PRESENCE OF OPENINGS WHICH WOULD AFFECT THE AGENT CONCENTRATION LEVELS. THE TEST SHALL BE CONDUCTED USING THE DOOR FAN SYSTEM WITH INTEGRATED COMPUTER PROGRAM. ALL TESTING SHALL BE IN ACCORDANCE WITH NFPA 2001.

6. <u>SUBMITTALS</u>

- SUBMIT ELECTRONIC PDF FILE FOR EACH PRODUCT DATA SUBMITTAL PRODUCT DATA TO INCLUDE BUT NOT LIMITED TO, PRINTED INFORMATION SUCH AS MANUFACTURER'S INSTALLATION INSTRUCTIONS, CATALOG CUTS, STANDARD COLOR CHARTS, ROUGHING-IN DIAGRAMS AND TEMPLATES, MATERIAL TYPES, ACCESSORIES, STANDARD
- WIRING DIAGRAMS, PERFORMANCE CURVES AND COORDINATION DRAWINGS. C. PERTINENT INFORMATION SHALL BE HIGHLIGHTED AND NON APPLICABLE INFORMATION IS TO
- BE CROSSED OUT. D. AT A MINIMUM THE FOLLOWING ITEMS SHALL BE SUBMITTED FOR REVIEW:
- D.1. FIRE HYDRANT FLOW TEST RESULTS.
- D.2. STAMPED AND SIGNED DELEGATED DESIGN DRAWINGS AND HYDRAULIC CALCULATIONS FOR SPRINKLER SYSTEM AND CLEAN AGENT SYSTEM COORDINATED WITH OTHER CEILING DEVICES SUCH AS LIGHT FIXTURES, AIR OUTLETS AND INLETS, SMOKE
- DETECTORS AND EXIT SIGNS.
- D.3. PIPING AND FITTINGS D.4. SPRINKLER SPECIALTY FITTINGS
- D.5. SPRINKLER HEADS D.6. VALVES

6. OPERATION AND MAINTENANCE MANUALS

- A. PROVIDE THREE (3) PRINTED COPIES IN BINDERS AND AN ELECTRONIC VERSION IN PDF FORMAT OF COMPLETE OPERATION AND MAINTENANCE MANUALS FOR ALL EQUIPMENT AND
- ACCESSORIES. B. AT A MINIMUM THE FOLLOWING ITEMS SHALL BE INCLUDED:
- B.1. TABLE OF CONTENTS
- B.2. ALL APPROVED PRODUCT SUBMITTALS
- B.3. WARRANTY INFORMATION FOR ALL PRODUCTS B.4. OPERATING AND MAINTENANCE INSTRUCTIONS
- B.5. RECORD DRAWINGS

GENERAL NOTES:

- A. THIS LEGEND SHEET IS FOR CONTRACTOR REFERENCE ONLY. NOT ALL SYMBOLS AND/OR ABBREVIATIONS MAY APPLY TO THIS PARTICULAR PROJECT. ANY ADDITIONS OR OMISSIONS FROM THIS LEGEND SHEET DOES NOT IMPLY INCLUSION AND/OR EXCLUSION OF ANY PARTICULAR ITEM FROM
- B. THE PLANS ARE DIAGRAMMATIC AND INDICATE ONLY THE SIZE AND GENERAL ARRANGEMENT OF PIPING AND EQUIPMENT. EXACT LOCATION OF ALL ELEMENTS SHALL BE DETERMINED AS WORK PROGRESSES, IN COOPERATION AND COORDINATION WITH THE WORK OF ALL OTHER TRADES. IT IS NOT INTENDED TO SHOW EVERY ITEM OF WORK OR MINOR PIECE OF EQUIPMENT, BUT THE CONTRACTOR SHALL FURNISH AND INSTALL WITHOUT ADDITIONAL REMUNERATION ANY COMPONENT

NECESSARY TO COMPLETE THE SYSTEM IN ACCORDANCE WITH THE BEST PRACTICE OF THE TRADE.

- C. ITEMS OF WORK OR EQUIPMENT SHOWN ON THE DRAWINGS ONLY, OR CALLED FOR IN THE SPECIFICATIONS ONLY, SHALL BE FURNISHED AND INSTALLED IN THE SAME MANNER AS IF THEY APPEARED ON BOTH THE DRAWINGS AND SPECIFICATIONS.
- D. DRAWINGS DO NOT INDICATE ALL OFFSETS, CHANGES IN ELEVATIONS, ETC. WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL MAKE SUCH CHANGES IN PIPING AND LOCATION OF EQUIPMENT, ETC. TO ACCOMMODATE WORK WITH THAT OF OTHER CONTRACTORS.
- E. INSTALL EQUIPMENT AND PIPING TO AVOID INTERFERENCE WITH THE OPERATION OR SERVICING AND MAINTENANCE OF EQUIPMENT.
- F. ALL COSTS FOR CUTTING, PATCHING AND PAINTING OF EXISTING WALLS, CEILINGS AND FLOORS TO ACCOMMODATE THE INSTALLATION OF FIRE PROTECTION WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNLESS INDICATED OTHERWISE. MATERIALS FOR RESTORATION OF EXISTING SURFACES SHALL MATCH THE EXISTING MATERIALS.
- G. PIPES PENETRATING FIRE WALLS AND FLOORS SHALL BE FIRESTOPPED AS SPECIFIED. REFER TO THE ARCHITECTURAL DRAWINGS FOR FIRE WALL AND FLOOR LOCATIONS.
- H. ALL PHYSICAL ATTRIBUTES OF EQUIPMENT AND DEVICES ARE BASED ON THOSE MANUFACTURERS LISTED IN THE SPECIFICATIONS AND/OR THE EQUIPMENT SCHEDULES. THE CONTRACTOR IS RESPONSIBLE FOR ALL CHANGES BROUGHT ABOUT BY USE OF ITEMS BY OTHER MANUFACTURERS. THE ARCHITECT/ENGINEER HAS RESERVED THE RIGHT TO REJECT ITEMS BY OTHER MANUFACTURERS IF THOSE ITEMS DO NOT MATCH THE PHYSICAL ATTRIBUTES OF THE MANUFACTURERS LISTED.
- I. COMPLY WITH THE MASSACHUSETTS STATE BUILDING CODES, NFPA 13 AND OTHER APPLICABLE
- J. COORDINATE CONNECTION OF SUPERVISORY SWITCHES, FLOW SWITCHES, AND OTHER SIMILAR DEVICES TO THE FIRE ALARM SYSTEM.
- K. FIRE PROTECTION SYSTEM SHALL BE A DELEGATED DESIGN AS DEFINED IN THE SPECIFICATIONS. SYSTEM TO BE HYDRAULICALLY DESIGNED AND STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MASSACHUSETTS.

FIRE PROTECTION SYMBOLS

FIRE PROTECTION PIPING (ABOVE GRADE)

	FIRE PROTECTION PIPING (ABOVE GRADE)
-/-/-/-	FIRE PROTECTION PIPING (BELOW GRADE)
	EXISTING FIRE PROTECTION PIPING
	FIRE PROTECTION DEMOLITION PIPING
─ ────	SHUT-OFF VALVE (GATE, BALL, ETC.)
\longrightarrow	CHECK VALVE
	BRANCH CONNECTION - BOTTOM
	BRANCH CONNECTION - TOP
`	ELBOW - TURNED DOWN
o	ELBOW - TURNED UP
	CAP
	UPRIGHT SPRINKLER HEAD
	PENDENT SPRINKLER HEAD
	DRY PENDENT SPRINKLER HEAD
—	CONCEALED SPRINKLER HEAD
	DRY CONCEALED SPRINKLER HEAD
—	SIDE WALL SPRINKLER HEAD
D	DRY TYPE SIDE WALL SPRINKLER HEAD
──	SPRINKLER HEAD EXISTING TO REMAIN
	SPRINKLER HEAD TO BE REMOVED
	BACKFLOW PREVENTER (BFP)
	FIRE DEPARTMENT CONNECTION
	OS&Y VALVE
$oldsymbol{\Theta}$	POINT OF CONNECTION

FIRE PROTECTION ABBREVIATIONS

POINT OF DISCONNECTION

AIR COMPRESSOR ABOVE FINISHED FLOOR

BRAKE HORSEPOWER DOUBLE CHECK DETECTOR ASSEMBLY

BACKFLOW PREVENTER

DPV DRY PIPE VALVE ELECTRICAL CONTRACTOR

FACP FIRE ALARM CONTROL PANEL

FFA FROM FLOOR ABOVE FROM FLOOR BELOW FFB

FIRE PUMP FIRE PROTECTION CONTRACTOR

GENERAL CONTRACTOR

GPM GALLONS PER MINUTE

HORSEPOWER

JOCKEY PUMP

MECHANICAL CONTRACTOR

NORMALLY CLOSED NORMALLY OPEN NOT TO SCALE NTS

PLUMBING CONTRACTOR

TO FLOOR ABOVE TO FLOOR BELOW

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CONSTRUCTION DOCUMENTS

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DWG. TITLE FIRE PROTECTION SYMBOLS, NOTES, ABBREVIATIONS, **ÁND DETAILS**

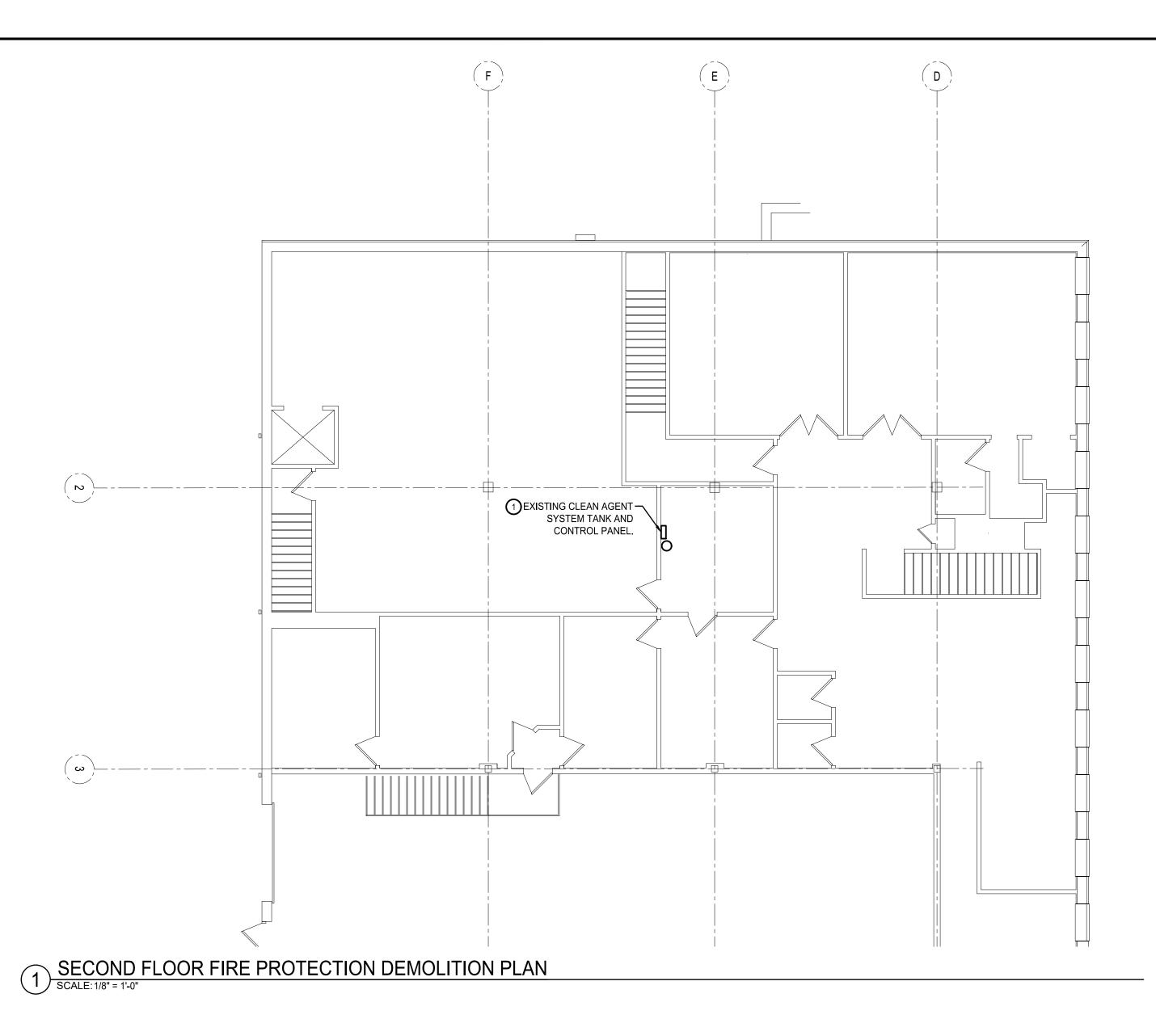
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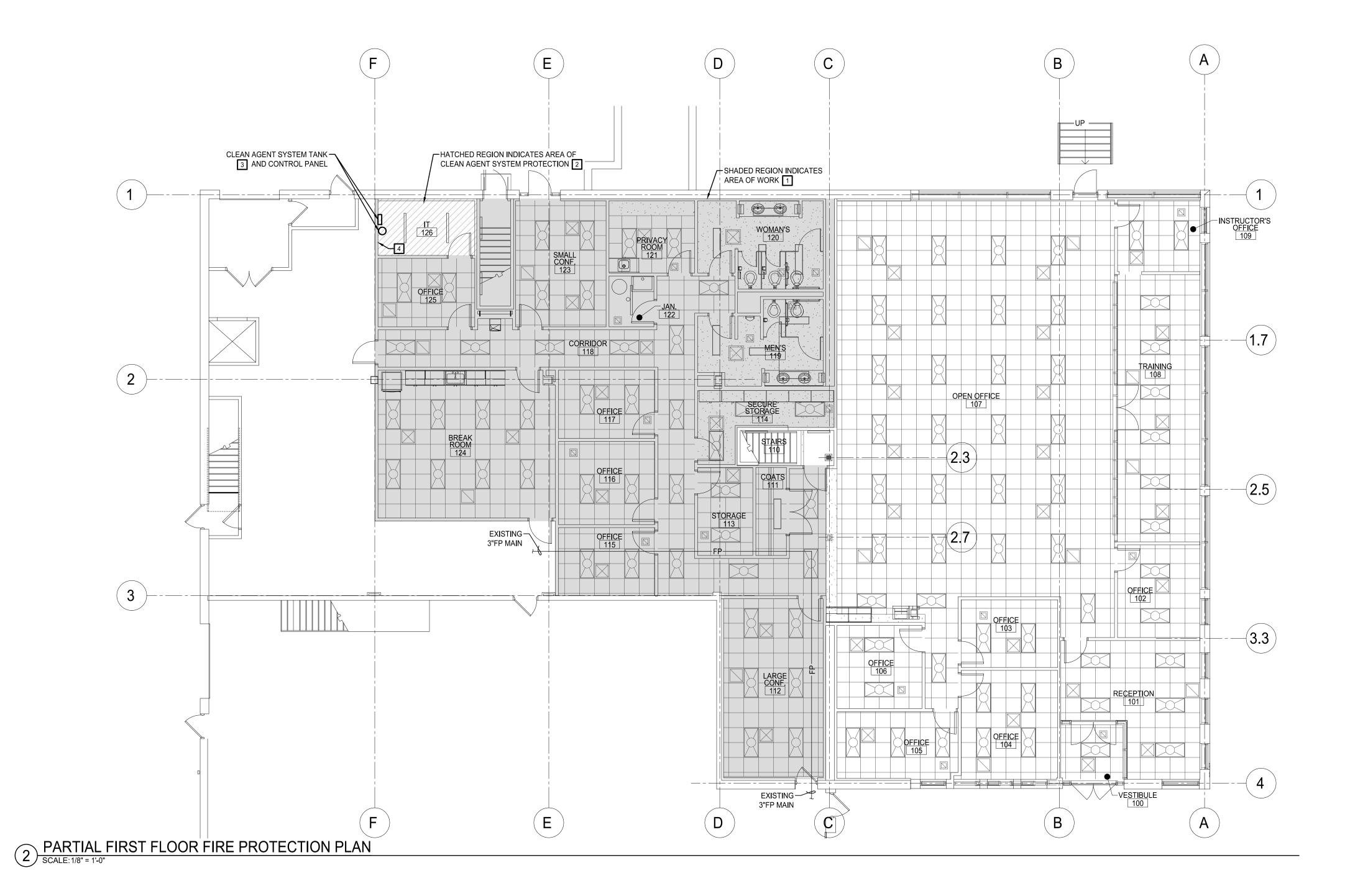
GENERIC SCALE BAR SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING. IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY DATE 10-01-2021 SCALE AS NOTED

DWN. NBN

PROJ. No. 610101

CHK. CRL





- A. EXISTING PIPING SHOWN ON THIS PLAN IS BASED ON LIMITED RECORD DRAWINGS AND CONDITIONS VIEWED DURING SITE INVESTIGATIONS. FIELD VERIFY AND CONFIRM EXISTING PIPING SIZES AND LOCATIONS. NOTIFY ENGINEER AND ARCHITECT OF SIGNIFICANT DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK
- B. CONTRACTOR TO PERFORM INSPECTION AND TESTING OF EXISTING CLEAN AGENT SYSTEM, PER MANUFACTURERS RECOMMENDATIONS, TO ENSURE A FULLY OPERATIONAL SYSTEM WHEN RELOCATED. ANY COMPONENT FOUND TO BE IN DISREPAIR SHALL BE REPLACED.

 REMOVE AND REINSTALL EXISTING CLEAN AGENT SYSTEM IN ITS ENTIRETY. SYSTEM SHALL INCLUDE, BUT NOT BE LIMITED TO TANK, CONTROL PANEL, NOZZLES, ALL PIPING, PUSH BUTTONS, AV DEVICES, AND ALL ANCILLARY HARDWARE. REFER TO CONSTRUCTION NOTE 3 BELOW FOR FUTURE LOCATION.

☑ CONSTRUCTION NOTES:

- REWORK EXISTING SPRINKLER SYSTEM BASED ON THE NEW FLOOR PLAN AND CEILING LAYOUT TO PROVIDE LIGHT HAZARD SPRINKLER PROTECTION AS DEFINED BY NFPA 13 AND SPECIFICATIONS ON FP001. MODIFY/EXTEND PIPING AS REQUIRED TO PROVIDE A WET PIPE SPRINKLER SYSTEM THROUGHOUT THE ENTIRE AREA OF WORK INDICATED. PROVIDE ALL NEW SPRINKLER HEADS THROUGHOUT INDICATED SPACE.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A FULLY FUNCTIONAL CLEAN AGENT FIRE PROTECTION SYSTEM IN ACCORDANCE WITH NFPA 2001 TO PROTECT IT ROOM 126. PERFORM CLEAN AGENT SYSTEM CALCULATIONS TO DETERMINE PIPE ROUTING, NOZZLE LOCATION, AND PROPER AMOUNT OF FM200 AGENT REQUIRED TO PROTECT THE SPACE. BASED ON CALCULATION, FM200 AGENT MAY BE REQUIRED TO BE ADDED TO TANK, OR REMOVED FROM TANK SO THAT THE PROPER CONCENTRATION WILL BE PROVIDED UPON ACTIVATION. IF EXISTING TANK SIZE IS NOT ADEQUATE, A NEW TANK SHALL BE PROVIDED. UTILIZE EXISTING EQUIPMENT AND PIPING TO GREATEST EXTENT POSSIBLE, AND PROVIDE ANY ADDITIONAL PIPING, NOZZLES, AV DEVICES, PUSHBUTTONS, SIGNAGE, OR ANY OTHER COMPONENTS REQUIRED FOR A CODE COMPLIANT SYSTEM. THE SPACE SHALL BE SEALED AIR TIGHT TO MEET THE REQUIREMENTS OF THE FAN DOOR TEST. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- 3. REINSTALL CLEAN AGENT SYSTEM INCLUDING BUT NOT LIMITED TO TANK, CONTROL PANEL, NOZZLES, PIPING, PUSH BUTTONS, A/V DEVICES AND ANCILLARY HARDWARE. TANK AND PANEL TO BE INSTALLED ALONG WALL AS SHOWN. CONTRACTOR TO PROVIDE ANY ADDITIONAL COMPONENTS NECESSARY TO PROVIDE A FULLY FUNCTIONAL CLEAN AGENT SYSTEM PER NFPA 2001.
- 4. PROVIDE DRY BARREL SIDEWALL SPRINKLER THROUGH WALL OF IT ROOM TO PROVIDE WET PIPE SPRINKLER PROTECTION, WITHOUT PERMITTING WATER FILLED PIPE TO ENTER THE ROOM. NO WATER FILLED PIPING OR SPRINKLERS SHALL PASS OVER THE TOP OF THE IT ROOM.



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PARTIAL FIRE PROTECTION PLANS

0 1" 2"

GENERIC SCALE BAR

SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING
IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY

DATE 10-01-2021

SCALE AS NOTED

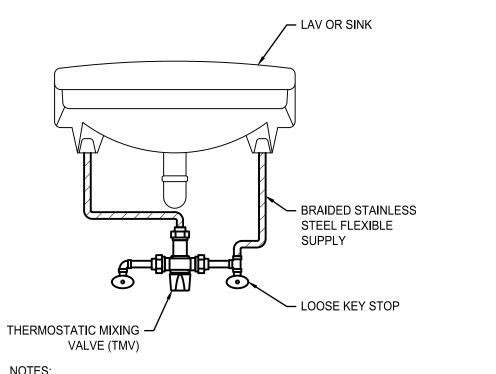
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FP101

PLUMBING ABBREVIATIONS

	T LOWDING /	ADDITE VITATION	
AC	AIR COMPRESSOR		
AD	AREA DRAIN	LAV	LAVATORY
AFF	ABOVE FINISHED FLOOR	LT	LAUNDRY TUB
AFG	ABOVE FINISHED FEOOR ABOVE FINISHED GRADE	LI	LAUNDINI 10D
ASC	ABOVE PINISHED GRADE ABOVE SUSPENDED CEILING	М	METER
AV	ACID VENT	MC	MECHANICAL CONTRACTOR
AW AWO	ACID WASTE	MH	MANHOLE MOD CERVICE BACIN
AWC	AUTOMATIC WASHER CONNECTION	MSB	MOP SERVICE BASIN
2417	DALANGING VALVE	MV	MIXING VALVE
BAV	BALANCING VALVE	NIO	NOT IN CONTRACT
BC	BALANCING COCK	NIC	NOT IN CONTRACT
BFP	BACKFLOW PREVENTER	NTS	NOT TO SCALE
BT DTU	BATHTUB BRITION THERMAN HANT	01	OII INTERCEPTOR
BTU	BRITISH THERMAL UNIT	OI	OIL INTERCEPTOR
3V	BALL VALVE	OS&Y	OUTSIDE SCREW & YOKE
~ 4	OOLIDDEOOED AID	OSI	OIL SEDIMENT INTERCEPTOR
CA	COMPRESSED AIR	OSW	OPEN SITE WASTE
СВ	CATCH BASIN	_	
CFH	CUBIC FEET PER HOUR	P	PUMP
CHKV	CHECK VALVE	PC	PLUMBING CONTRACTOR
CI	CAST IRON	PD	PUMP DISCHARGE
CO	CLEANOUT	PRV	PRESSURE REDUCING VALVE
CS	CLINICAL SINK	PT	PLASTER TRAP
CSS	CLINICAL SERVICE SINK		
CW	COLD WATER	RD	ROOF DRAIN
CWP	CIRCULATING WATER PUMP	RV	RELIEF VENT
		RWL	RAIN WATER LEADER
)	DRAIN LINE		
DF	DRINKING FOUNTAIN	SAN	SANITARY SEWER
NC	DOWN	SCW	SOFTENED COLD WATER
DWH	DOMESTIC WATER HEATER	SF	SQUARE FOOT
OWV	DROP TO WASTE/RISE TO VENT	SHR	SHOWER
		SK	SINK
ΞC	ELECTRICAL CONTRACTOR	SMP	SUMP PUMP
EST	EMERGENCY STORM SEWER	SS	SERVICE SINK
ĒΤ	EXPANSION TANK	SSS	SURGICAL SERVICE SINK
EWC	ELECTRIC WATER COOLER	ST	STORM SEWER
EWH	ELECTRIC WATER HEATER	STN	STRAINER
EXST	EXISTING	SWE	STORM WATER EJECTOR
=	FAHRENHEIT DEGREES	TFA	TO FLOOR ABOVE
FACP	FIRE ALARM CONTROL PANEL	TFB	TO FLOOR BELOW
FBO	FURNISHED BY OTHERS	TP	TRAP PRIMER
-co	FLOOR CLEANOUT	TW	TEMPERED WATER
=D	FLOOR DRAIN		
-S	FLOOR SINK	UR	URINAL
=T	FOOTING TILE		
		V	VENT
G	GAS	VC	VALVE CABINET
GC	GENERAL CONTRACTOR	VR	VENT RISE
Gl	GREASE INTERCEPTOR	VTR	VENT THROUGH ROOF
GLV	GLOBE VALVE		
GM	GAS METER	WC	WATER CLOSET
GPH	GALLONS PER HOUR	WCO	WALL CLEANOUT
GPM	GALLONS PER MINUTE	WF	WASH FOUNTAIN
GT W	GREASE TRAP	WG	WATER GAUGE
GTV	GATE VALVE	WH	WALL HYDRANT
GWH	GAS WATER HEATER	WHA	WATER HAMMER ARRESTOR
~ · · · · ·	S. O. THE CHECK	WIG	WIRE GUARD
НВ	HOSE BIBB	WM	WATER METER
тБ НР	HORSEPOWER	WTCS	WATER TEMPERATURE CONTROL STATIO
-IF -IW	HOT WATER	WV	WET VENT
7/V/CD		•••	_ · · — · ·

GAUGE (0-100 PSIG) AQUASTAT FOR CONTROL OF PUMP PLUG VALVE (TYPICAL) FOR CONTINUATION AND REDUCING TEE (OR TEST PLUG SIZE, SEE FLOOR PLAN FOR INSERTION OF GAUGE) UNION OR FLANGE CONNECTION BALL VALVE ¬ (TYP.) N-LINE CIRCULATING PUMP DETAIL (1) SCALE: NOT TO SCALE _ LAV OR SINK TEMPERATURE/PRESSURE ~ RELIEF VALVE HEAT TRAP FITTING (TYP.) —



1. MODIFY EXISTING SUPPLY PIPING AS REQUIRED FOR THERMOSTATIC

2. MOUNT THERMOSTATIC MIXING VALVE AS TIGHT TO UNDERSIDE OF SINK OR LAVATORY AS POSSIBLE TO MAINTAIN ADA CLEARANCE.

HOT WATER CIRCULATING PUMP

IN-LINE CIRCULATING

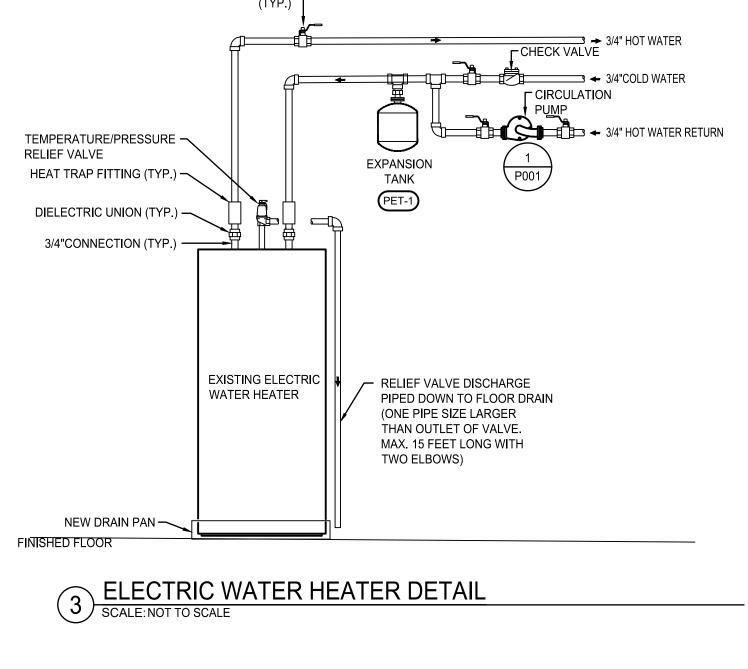
PUMP (SEE PUMP SCHEDULE)

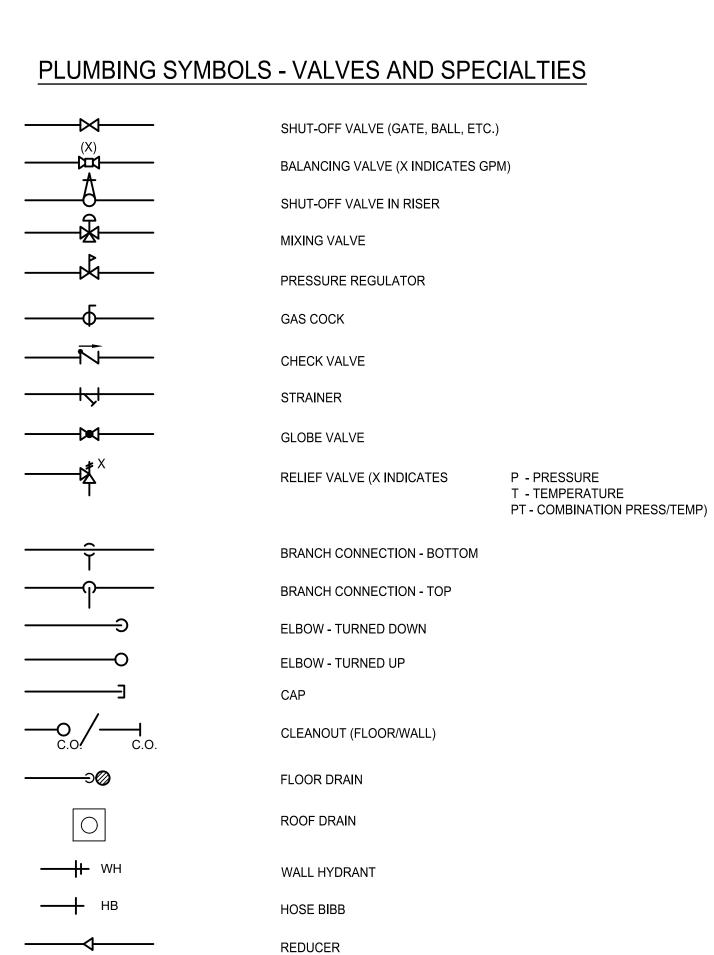
HOT WATER RECIRCULATION

HOT WATER TANK

THERMOSTATIC MIXING 2 VALVE AT LAV OR SINK DETAIL
SCALE: NOT TO SCALE

MIXING VALVE INSTALLATION.





UNION PIPE GUIDE (PG) PIPE ANCHOR (PA) WATER HAMMER ARRESTOR (X INDICATES PDI SIZE) FLEXIBLE CONNECTOR DIRECTION OF FLOW DIRECTION OF DOWNWARD PITCH PRESSURE GAUGE THERMOMETER PRESSURE/TEMPERATURE TAP

METER

CIRCULATING PUMP WC-1

_____M

PLUMBING FIXTURE No. (SEE SPEC.)

PLUMBING SPECIALITY No. (SEE SPEC.) PLUMBING EQUIPMENT No. (SEE SPEC.)

DRAWING DETAIL NUMBER DRAWING WHERE FOUND

DRAWING SECTION NUMBER DRAWING WHERE FOUND

105

ROOM NUMBER

POINT OF CONNECTION/REMOVAL

PLUMBING SYMBOLS - PIPING DESIGNATIONS

—— cw ——	COLD WATER
——————————————————————————————————————	HOT WATER
HWR	HOT WATER CIRCULATING
-/ G /-	GAS (BELOW ROOF)
—— G ——	GAS
<u> </u>	SANITARY SEWER (BELOW GRADE)
SAN	SANITARY SEWER (ABOVE GRADE)
	VENT (BELOW GRADE)
V	VENT (ABOVE GRADE)

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- 4. DRAWINGS DO NOT INDICATE ALL OFFSETS, CHANGES IN ELEVATIONS, ETC. WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL MAKE SUCH CHANGES IN PIPING AND LOCATION OF EQUIPMENT, ETC. TO ACCOMMODATE WORK WITH THAT OF OTHER CONTRACTORS.
- 5. INSTALL EQUIPMENT AND PIPING TO AVOID INTERFERENCE WITH THE OPERATION OR SERVICING AND MAINTENANCE OF EQUIPMENT.
- 6. ALL COSTS FOR CUTTING, PATCHING AND PAINTING OF EXISTING WALLS, CEILINGS AND FLOORS TO ACCOMMODATE THE INSTALLATION OF PLUMBING WORK SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR UNLESS INDICATED OTHERWISE. MATERIALS FOR RESTORATION OF EXISTING SURFACES SHALL MATCH THE EXISTING MATERIALS.
- 7. PIPES PENETRATING FIRE WALLS AND FLOORS SHALL BE FIRESTOPPED AS SPECIFIED. REFER TO THE ARCHITECTURAL DRAWINGS FOR FIRE WALL AND FLOOR LOCATIONS.
- 8. ALL PHYSICAL ATTRIBUTES OF EQUIPMENT AND DEVICES ARE BASED ON THOSE MANUFACTURERS LISTED IN THE SPECIFICATIONS AND/OR THE EQUIPMENT SCHEDULES. THE RESPECTIVE CONTRACTORS ARE RESPONSIBLE FOR ALL CHANGES BROUGHT ABOUT BY USE OF ITEMS BY OTHER MANUFACTURERS. THE ARCHITECT/ENGINEER HAS RESERVED THE RIGHT TO REJECT ITEMS BY OTHER MANUFACTURERS IF THOSE ITEMS DO NOT MATCH THE PHYSICAL ATTRIBUTES OF THE MANUFACTURERS LISTED.
- 9. COMPLY WITH THE 2020 MASSACHUSETTS STATE BUILDING CODES, ASHRAE 90.1-2007, AND OTHER APPLICABLE CODES.

FIXTURE	DESCRIPTION	MANUFACTURER	PIPING CONNECTIONS				ACCECCODIEC	DEMARKS	
NO.	DESCRIPTION	& MODEL	S/W	VENT	C.W.	H.W.	ACCESSORIES	REMARKS	
EWC-1	ADA COMPLIANT ELECTRIC WATER COOLER AND FILTERED BOTTLE FILLING STATION #14 GAUGE, TYPE 304 SS	ELKAY EZH20 LZS8WSLK	2"	2"	1/2"	-	WALL MOUNTING PLATE, VANDAL RESISTANT BUBBLER, 3 PACK REPLACEMENT FILTERS	20AMP MINIMUM DUAL RECEPTOR 115V	
FCO	FLOOR CLEAN OUT W/ ROUND ADJUSTABLE EXTRA HEAVY DUCTILE IRON TOP & SECONDARY PLUG	MIFAB C1100-XR-4-34-BA	VARIES	-	1	-	-	SIZE TO MATCH DRAIN LINE SIZE, MAXIMUM 4"	
FD-1	FLOOR DRAIN, 6"Ø NICKEL BRONZE STRAINER, TRAP GUARD	MIFAB F1100-6-1	3"	-	-	-	TRAP GUARD	-	
LAV-1	SOLID SURFACE COUNTERTOP WITH INTEGRAL BOWLS	BY OTHERS	2"	2"	1/2"	1/2"	FAUCETS, THERMOSTATIC MIXING VALVE, SS STRAINER, SUPPLIES, STOPS, TRAP, & ESCUTCHEON PLATE	PROVIDE SLOAN EAF-150-BAT FAUCET (0.5 GPM), AND TRUEBRO LAV GUARD.	
MS-1	MOP SINK, FLOOR MOUNTED, TERRAZZO 24"x24"x12" WITH 6" DROP FRONT AND SS CAP ON DROP THRESHOLD	FIAT TSBC1610	3"	2"	1/2"	1/2"	FAUCET, HOSE AND HOSE BRACKET	TWO LEVER FAUCET W/ INTERNAL STOPS AND VACUUM BREAKER, CHICAGO MODEL 445-897SRCXKC	
SK-1	ADA COMPLIANT, SINGLE BOWL, SINGLE FAUCET HOLE, RIGHT REAR DRAIN, STAINLESS STEEL, TOP MOUNT, 304SS,25"x22"x6.5"	ELKAY LRAD252165R	2"	2"	1/2"	1/2"	FAUCET (1.5GPM), SS STRAINERS, SUPPLIES, STOPS, TRAP, TAILPIECE, AND ESCUTCHEON PLATE	FAUCET: SINGLE LEVER, SINGLE HOLE, PULL DOWN, ELKAY LKGT40 PROVIDE TRUEBRO LAV GUARD, DISPOSAL: INSINKERATOR EVOLUTION ESSENTIAL GARBAGI DISPOSAL, 3/4HP, 120V, 8.1AMPS	
SK-2	ADA COMPLIANT, SINGLE BOWL, SINGLE FAUCET HOLE, RIGHT REAR DRAIN, STAINLESS STEEL, TOP MOUNT, 304SS,22"x19.5"x6.5"	ELKAY LRAD221965R	2"	2"	1/2"	1/2"	FAUCET (1.5GPM), SS STRAINERS, SUPPLIES, STOPS, TRAP, TAILPIECE, AND ESCUTCHEON PLATE	FAUCET: SINGLE LEVER, SINGLE HOLE, PULL DOWN, ELKAY LKGT40 PROVIDE TRUEBRO LAV GUARD	
TG	TRAP GUARD	PROSET	VARIES	-	-	-	-	INSTALL WITHIN ALL FLOOR DRAIN EXCEPT SHOWER DRAINS	
TMV	THERMOSTATIC MIXING VALVE, ROUGH BRONZE BODY, LEAD FREE, (INSTALLED AT LAVATORIES, AND ALL SINKS)	LEONARD 170A-LF	-	-	1/2"	1/2"	-	SET OUTLET TEMPERATURE TO 105° F. ASSE 1070 CERTIFIED	
U-1	ADA COMPLIANT, URINAL, WALL MOUNTED, VITREOUS CHINA, 0.125GPF REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHT.	GERBER MONITOR GHE27800	2"	2"	3/4"	-	SENSOR FLUSH VALVE, CARRIER	SLOAN ECOS 8186-0.125 SENSOF FLUSH VALVE	
WC-1	ADA COMPLIANT, WATER CLOSET, FLUSH TANK, WALL MOUNTED, VITREOUS CHINA, 1.3 GPF	GERBER MAXWELL G0020021	4"	2"	1/2"	_	OPEN FRONT SEAT, SUPPLY AND STOP	ADA STALLS SHALL HAVE FLUSH LEVERS INSTALLED ON ACCESSIB SIDE OF TANK	
WCO	WALL CLEANOUT, BRONZE PLUG AND SS ACCESS COVER	MIFAB C1430-RD-BA	VARIES	_	-	-	-	SIZE TO MATCH SANITARY LINE SIZE, MAXIMUM 4"	

PLAN DESIGNATION	MANUFACTURER MODEL NO.	LOCATION	TANK TYPE	TANK VOLUME (GAL.)	ACCEPTANCE VOLUME (GAL.)	LENGTH	DIAMETER (IN.)	INLET (IN.)	WEIGHT (LBS)	NOTES
PET-1	WATTS DETA-5	SLOP SINK CLOSET	BLADDER	3.5	2.3	14	10	3⁄4	22	1,2

HOT WATER RETURN PUMP SCHEDULE (HWRP)													
PLAN	MANUFACTURER	MANUFACTURER SERVICE LOCATION		TEMPERATURE	FLOW	TOTAL HEAD	POWER	RPM	ELECTRICAL DATA			NOTES	
DESIGNATION	MODEL NO.	SERVICE	LOCATION	(DEG. °F)	(GPM)	(FT)	(WATTS)	KPIVI	VOLTS	PHASE	HERTZ	F.L.AMPS	NOTES
HWRP-1	BELL & GOSSETT NBF-8S/LW	DOMESTIC WATER	HOT WATER TANK	140	2	7	39	2800	115	1	60	0.39	ALL
NOTES:													

BRONZE BODY CONSTRUCTION, NON FERROUS IMPELLER, 225°F MAX OPERATING TEMPERATURE, 125 PSI MAX WORKING PRESSURE. PROVIDE AQUASTAT AND AUTOMATIC TIMER KIT.

PROVIDE ELECTRICAL DISCONNECT.

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CONSTRUCTION DOCUMENTS



CHK. CRL

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DATE 10-01-2021

SCALE AS NOTED

PROJ. No. 610101

NOTE:

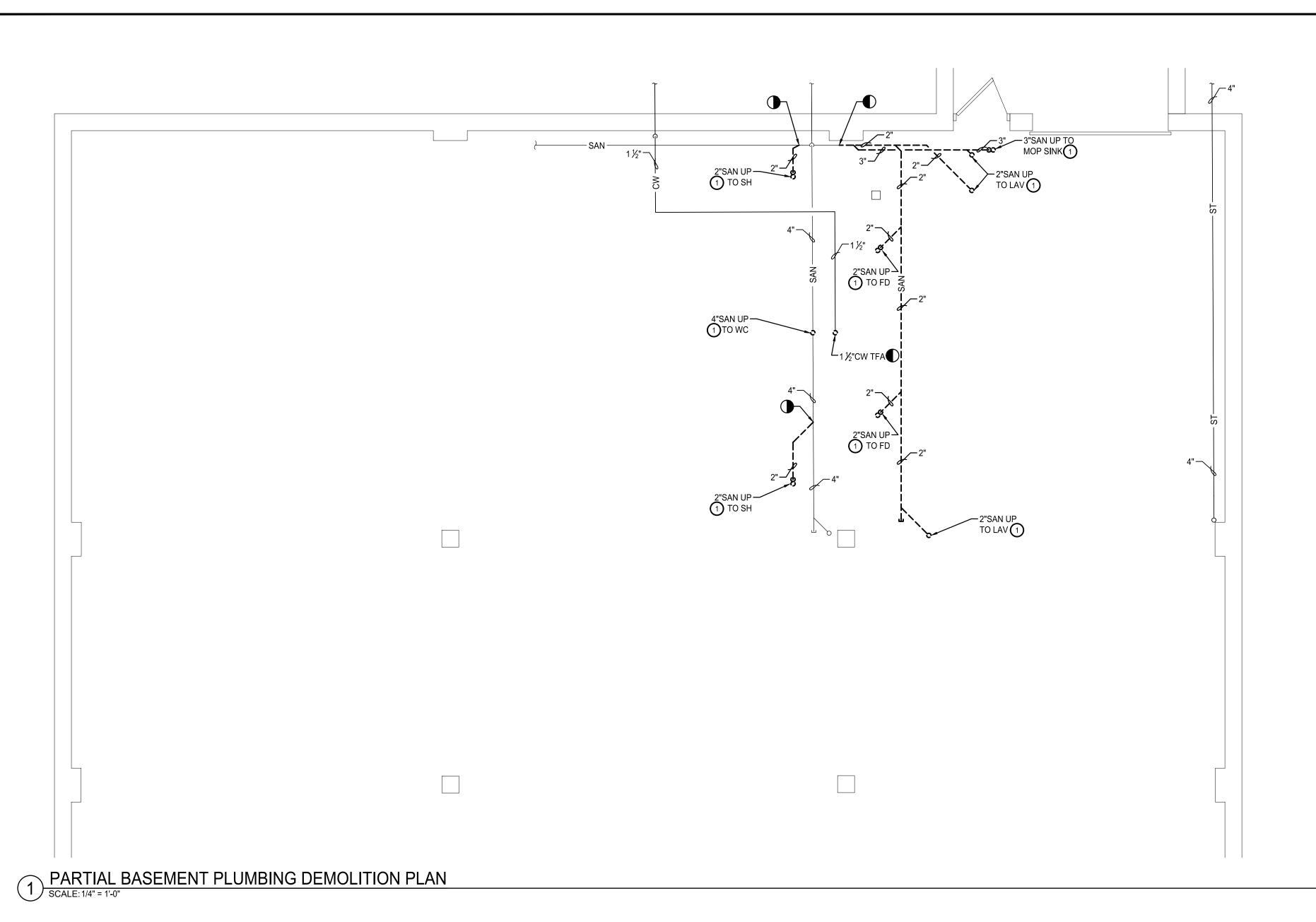
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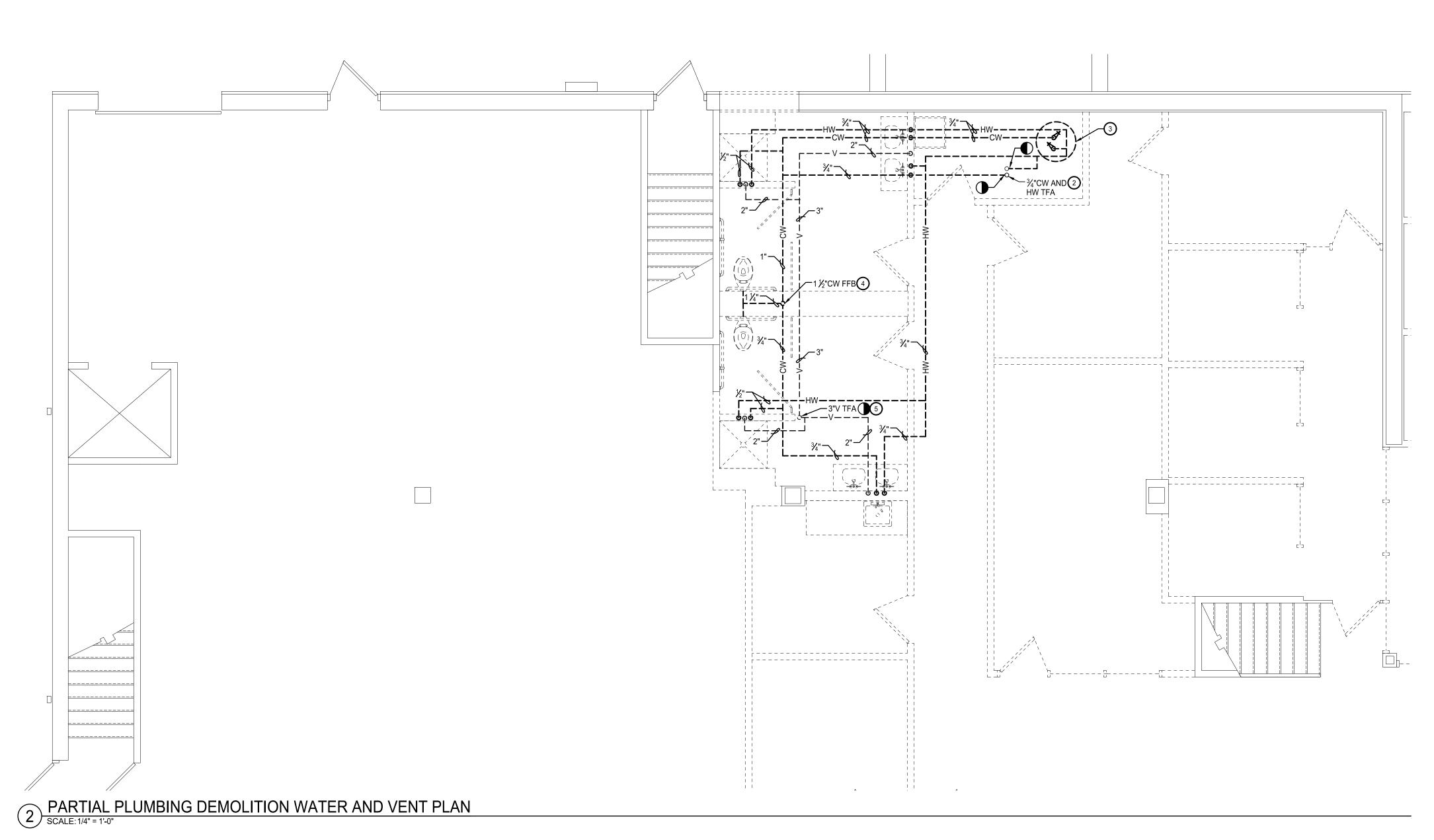
REVISIONS

PLUMBING SYMBOLS, NOTES,

ABBREVIATIONS, DÉTAILS,

AND SCHEDULES





GENERAL DEMOLITION NOTES:

- A. EXISTING PIPING SHOWN ON THIS PLAN IS BASED ON LIMITED RECORD DRAWINGS AND CONDITIONS VIEWED DURING SITE INVESTIGATIONS. FIELD VERIFY AND CONFIRM EXISTING PIPING SIZES AND LOCATIONS. NOTIFY ENGINEER AND ARCHITECT OF SIGNIFICANT DISCREPANCIES PRIOR TO COMMENCEMENT OF
- B. ALL PLUMBING FIXTURES WITHIN THE FIRST FLOOR AREA OF WORK ARE TO REMOVED. ALL CARRIERS, SUPPORTS, AND ASSOCIATED HARDWARE IS TO BE REMOVED.

- REMOVE SANITARY PIPING UP THROUGH FLOOR. PATCH FLOOR PENETRATION TO MATCH EXISTING.
- DISCONNECT HOT AND COLD WATER SUPPLY TO SECOND FLOOR. RISERS TO SECOND FLOOR ARE TO BE CAPPED WITHIN CEILING SPACE AND PREPARED FOR RECONNECTION IN NEW WORK.
- DISCONNECT EXISTING DOMESTIC WATER HEATER AND PREPARE FOR REUSE IN NEW WORK. REMOVE ALL WATER PIPING BACK TO POINTS SHOWN. DISCONNECT ELECTRICAL POWER SUPPLY, REFER TO ELECTRICAL DRAWINGS.
- 4. REMOVE ALL HW AND CW PIPING WITHIN THE FIRST FLOOR AREA OF WORK BACK TO THE BASEMENT. REMOVE ALL BRACKETS AND ASSOCIATED HARDWARE. PATCH FLOOR PENETRATION TO MATCH SURROUNDING.
- 5. REMOVE ALL VENT PIPING FOR FIXTURES BEING REMOVED BACK TO RISER UP TO FLOOR ABOVE. 3" RISER TO FLOOR ABOVE TO BE PREPARE FOR REUSE IN NEW WORK.



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NO. REVISIONS DATE

PARTIAL PLUMBING DEMOLITION PLANS

DEMOLITION PLANS

0 1" 2"

GENERIC SCALE BAR

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SCALE AS NOTED

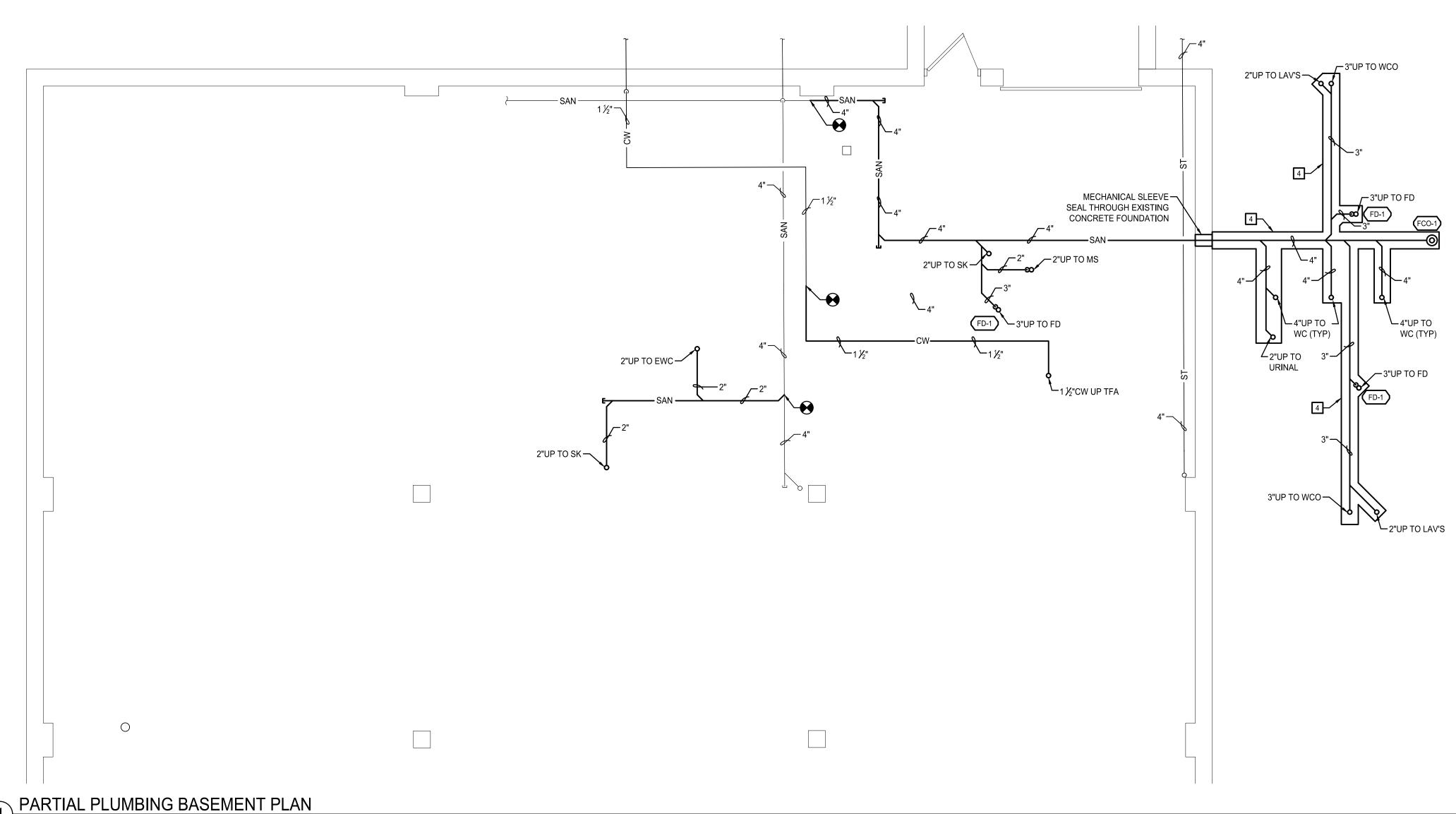
DATE 10-01-2021

SCALE AS NOTED

DWN. NBN CHK. CF

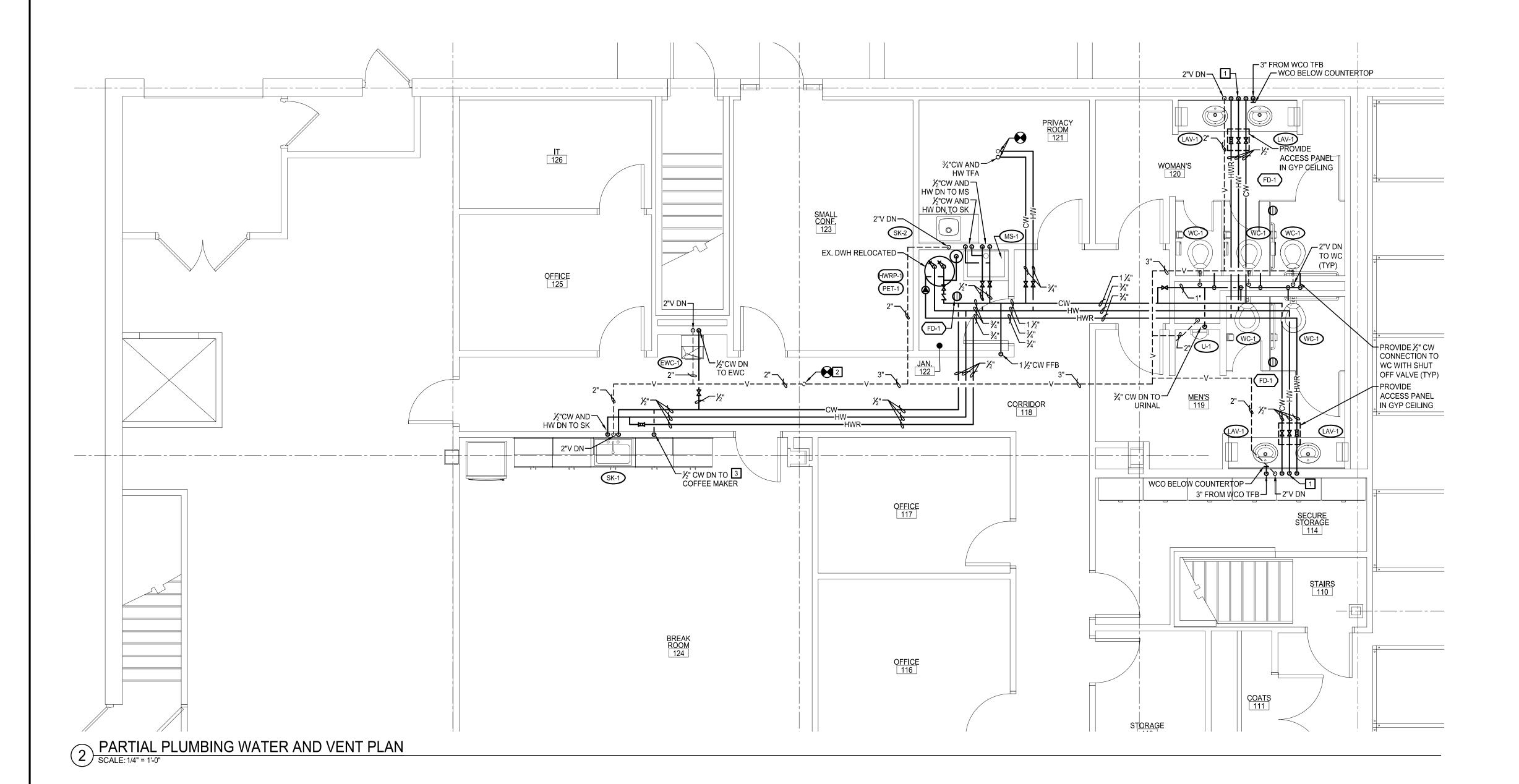
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PD101



PARTIAL PLUMBING BASEMENT PLAN

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



GENERAL NOTES:

- A. EXISTING PIPING SHOWN ON THIS PLAN IS BASED ON LIMITED RECORD DRAWINGS AND CONDITIONS VIEWED DURING SITE INVESTIGATIONS. FIELD VERIFY AND CONFIRM EXISTING PIPING SIZES AND LOCATIONS. NOTIFY ENGINEER AND ARCHITECT OF SIGNIFICANT DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.
- B. FIELD INVESTIGATIONS REVEALED THAT THE GAS SERVICE PRESSURE REGULATOR IS SET TO 3-7 IN.H20 AT THE OUTLET. THE NEW SPECIFIED ROOF TOP EQUIPMENT REQUIRES BETWEEN 7-12 IN.H20 FOR OPERATION. CONTRACTOR TO COORDINATE WITH GAS UTILITY PROVIDER TO INCREASE OUTLET PRESSURE AT THE GAS SERVICE TO PROVIDE AT LEAST 11 IN.H20. CONTRACTOR SHALL COORDINATE WITH OWNER TO PROVIDE PRESSURE REGULATORS FOR ALL EXISTING GAS FIRED EQUIPMENT THROUGHOUT THE FACILITY TO ENSURE PROPER OPERATION AFTER PRESSURE INCREASE. COORDINATE NEW EQUIPMENT GAS REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO COMMENCEMENT OF WORK.
- C. PAINT ALL EXPOSED INTERIOR AND EXTERIOR GAS PIPING.

1. $\frac{1}{2}$ " CW, HW, AND HWR DOWN INTO CHASE. PROVIDE $\frac{1}{2}$ " HW AND CW CONNECTION TO EACH LAV. CONNECT HWR INTO HW PIPING WITHIN 2' OF EACH LAV.

- 2. CONNECT 3" VENT PIPING INTO EXISTING 3" RISER TO THE FLOOR ABOVE.
- 3. PROVIDE ASSE 1022 CERTIFIED BACKFLOW PREVENTER (WATTS SD-3 OR EQUAL) AND WATER FILTER (3M BREW 115-MS OR EQUAL) UNDER COUNTERTOP. CONNECT OUTLET OF FILTER TO COFFEE MAKER WITH FOOD GRADE TUBING. COORDINATE COFFEE MAKER LOCATION WITH OWNER TO DETERMINE COUNTERTOP PENETRATION LOCATION. PROVIDE A SPARE FILTER REPLACEMENT CARTRIDGE.
- 4. SAWCUT EXISTING CONCRETE SLAB AS NEEDED TO INSTALL SANITARY PIPING BELOW GRADE. REFER TO SLAB INFILL DETAIL AT NEW UTILITY TRENCH DETAIL ON AD-001.



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REVISIONS

PLUMBING PLANS

PROJ. No. 610101

P101

HVAC ABBREVIATIONS

	·		
AAV	AUTOMATIC AIR VENT	Н	HUMIDIFIER
AC	AIR COMPRESSOR	HC	HEATING COIL
ACCU	AIR COOLED CONDENSING UNIT	HEX	HEAT EXCHANGER
ACS DR	ACCESS DOOR	HP	HORSEPOWER
ACS PNL	ACCESS PANEL	HRU	HEAT RECOVERY UNIT
ACV	AUTOMATIC CONTROL VALVE	HSTAT	HUMIDISTAT
AFF	ABOVE FINISHED FLOOR	HV	HEATING AND VENTILATING UNIT
AFG	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE	HWB	HOT WATER BOILER
AFG AHU	AIR HANDLING UNIT	HWCP	HOT WATER BOILER HOT WATER CIRCULATING PUMP
	ALUMINUM	пись	HOT WATER CIRCULATING PUMP
ALUM		1 A T	LEAVING AID TEMPEDATURE
AS	AIR SEPARATOR	LAT	LEAVING AIR TEMPERATURE
ASC	ABOVE SUSPENDED CEILING	LRI LB)/	LOUVERED ROOF INTAKE
AVG	AVERAGE	LRV	LOUVERED ROOF VENT
D 43.7	DALANGING VALVE	LWT	LEAVING WATER TEMPERATURE
BAV	BALANCING VALVE		MAKE UD AID UNIT
BB-E	BASEBOARD - ELECTRIC	MAU	MAKE-UP AIR UNIT
BFP	BACKFLOW PREVENTER	MAV	MANUAL AIR VENT
BFV	BUTTERFLY VALVE	MC	MECHANICAL CONTRACTOR
BFWP	BOILER FEED WATER PUMP		
BHP	BRAKE HORSEPOWER	NC	NORMALLY CLOSED
BV	BALL VALVE	NIC	NOT IN CONTRACT
		NO	NORMALLY OPEN
CA	COMPRESSED AIR	NTS	NOT TO SCALE
CA	COMBUSTION AIR		
CEB	CONCRETE EQUIPMENT BASE	0	OPEN
CFM	CUBIC FEET PER MINUTE	OA	OUTSIDE AIR
CHKV	CHECK VALVE	OC	ON CENTER
CHWP	CHILLED WATER CIRCULATING PUMP	OED	OPEN ENDED DUCT
CIR	CAST IRON RADIATOR		
СОМ	COMMON	PC	PLUMBING CONTRACTOR
CRP	CONDENSATE RETURN PUMP	PLV	PLUG VALVE
CT	COOLING TOWER	PRV	PRESSURE REDUCING VALVE
CUH	CABINET UNIT HEATER	PTAC	PACKAGE TERMINAL AIR CONDITIONER
CUV	CLASSROOM UNIT VENTILATOR		
CV	CONTROL VALVE	RA	RETURN AIR
		RAF	RETURN AIR FAN
DB	DRY BULB	RH	RELATIVE HUMIDITY
DCI	DUCT COVERING INSULATION	RHC	REHEAT COIL
DLI	DUCT LINING INSULATION	RLL	REFRIGERANT LIQUID LINE
DSS	DUCTLESS SPLIT SYSTEM AIR CONDITIONER	RSL	REFRIGERANT SUCTION LINE
DX	DIRECT EXPANSION	RTU	ROOF TOP UNIT
		RV	ROOF VENT
EA	EXHAUST AIR		
EAT	ENTERING AIR TEMPERATURE	SA	SUPPLY AIR
EC	ELECTRICAL CONTRACTOR	SD	SMOKE DAMPER
EDR	EQUIVALENT DIRECT RADIATION	SF	SUPPLY FAN
ET	EXPANSION TANK	SP	STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE	STN	STRAINER
	ENTERNIO WATER TEMI ERATORE	SUH	SUSPENDED UNIT HEATER
F	DEGREES FAHRENHEIT	0011	SOOI ENDED SINT HEATER
FBO	FURNISHED BY OTHERS	TFA	TO FLOOR ABOVE
FCU	FAN COIL UNIT	TFB	TO FLOOR BELOW
FFA	FROM FLOOR ABOVE	11 0	TO TEOOR BELOW
FFB	FROM FLOOR BELOW	UH	UNIT HEATER
		UV	UNIT VENTILATOR
FID FSD	FIRE DAMPER	ΟV	ONIT VENTILATOR
	FIRE/SMOKE DAMPER	VAV	VARIABLE AIR VOLUME
FTR	FINNED TUBE RADIATOR		
FURN	FURNACE	VD VIB ISO	VOLUME DAMPER
00	OFNEDAL CONTRACTOR	VIB ISO	VIBRATION ISOLATOR
GC	GENERAL CONTRACTOR	WD	WET DILL D
GLV	GLOBE VALVE	WB	WET BULB
GPM	GALLONS PER MINUTE	WCUBLI	WATER CULLER
GTV	GATE VALVE	WCHRU	WATER CHILLER
GVTR	GAS VENT THROUGH ROOF	WIV	WATER RRESSURE DROP
		WPD	WATER PRESSURE DROP

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- 4. DRAWINGS DO NOT INDICATE ALL OFFSETS, CHANGES IN ELEVATIONS, ETC. WHICH MAY BE REQUIRED. MAKE SUCH CHANGES IN PIPING AND LOCATION OF EQUIPMENT, ETC. TO ACCOMMODATE WORK WITH THAT OF OTHER SUBCONTRACTORS.
- 5. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER INSTALLATION AND OPERATION, SHALL BE INCLUDED IN THE BID, THE SAME AS IF HEREIN
- 6. INSTALL EQUIPMENT, DUCTWORK, AND PIPING TO AVOID INTERFERENCE WITH THE OPERATION OR SERVICING AND MAINTENANCE OF EQUIPMENT.
- 7. PROVIDE ACCESS PANELS AND DOORS WHERE THEY ARE NEEDED TO GAIN ACCESS TO CONCEALED EQUIPMENT. PANELS AND DOORS SHALL BE APPROPRIATE FOR THE WALL CONSTRUCTION AND RATING IN WHICH THEY ARE TO BE INSTALLED.
- 8. PROVIDE ALL CUTTING, PATCHING AND PAINTING OF EXISTING WALLS, CEILINGS AND FLOORS TO ACCOMMODATE THE INSTALLATION OF HVAC WORK. MATERIALS FOR RESTORATION OF EXISTING SURFACES SHALL MATCH THE EXISTING MATERIALS.
- 9. ALL PIPES, CONDUIT, AND/OR DUCTS PENETRATING FIRE WALLS AND FLOORS SHALL BE FIRESTOPPED AS SPECIFIED. REFER TO THE ARCHITECTURAL DRAWINGS FOR FIRE WALL AND
- 10. ALL DUCT SIZES SHOWN ON DRAWINGS INDICATE CLEAR INSIDE DIMENSIONS.
- 11. ALL PHYSICAL ATTRIBUTES OF EQUIPMENT AND DEVICES ARE BASED ON THOSE MANUFACTURERS LISTED IN THE SPECIFICATIONS AND/OR THE EQUIPMENT SCHEDULES. THE RESPECTIVE TRADE IS RESPONSIBLE FOR ALL CHANGES BROUGHT ABOUT BY USE OF ITEMS BY OTHER MANUFACTURERS. THE ARCHITECT/ENGINEER HAS RESERVED THE RIGHT TO REJECT ITEMS BY OTHER MANUFACTURERS IF THOSE ITEMS DO NOT MATCH THE PHYSICAL ATTRIBUTES OF THE MANUFACTURERS LISTED.
- 12. COMPLY WITH THE 2015 INTERNATIONAL BUILDING CODES INCLUDING ALL SUPPLEMENTS, 2018 INTERNATIONAL ENERGY CONSERVATION CODE, ASHRAE 90.1-2016, ASHRAE 62.1-2013, THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE, LOCAL CODES AND ORDINANCES, AND OTHER APPLICABLE CODES.

SHOP/COORDINATION DRAWINGS:

CONTRACTOR SHALL PROVIDE TO THE ENGINEER CAD-GENERATED (AUTOCAD) COORDINATION DRAWINGS AT 3/8" EQUALS 1 FOOT SCALE. PROVIDE AT MINIMUM:

- 1. FIELD VERIFY EXISTING CONDITIONS.
- 2. PROVIDE LAYOUT OF ALL NEW EQUIPMENT, DUCTWORK (DOUBLE LINED) AND PIPING.
- PROVIDE ELEVATIONS OF ALL DUCTWORK (TOP AND BOTTOM). PROVIDE DIMENSIONS OF MAIN PIPE RUNS FROM BUILDING GRID LINES OR WALLS. PENETRATIONS THROUGH FIRE-RATED AND OTHER PARTITIONS.
- REFER TO SPECIFICATION SECTION 230010 BASIC MECHANICAL REQUIREMENTS FOR DETAILED
- EQUIPMENT INSTALLATION BASED ON EQUIPMENT PURCHASED FOR PROJECT. SHOP/COORDINATION DRAWING REQUIREMENTS.

HVAC SYMBOLS - DUCTWORK

AIRFLOW - SUPPLY/OUTDOOR AIR AIRFLOW - RETURN/EXHAUST AIR 12"x8" RECTANGULAR DUCTWORK (FIRST NUMBER INDICATES VISIBLE DIMENSION) ROUND DUCTWORK 12"Ø 12"x8"o— FLAT OVAL DUCTWORK 12"x8"L "L" INDICATES LINED DUCTWORK FLEXIBLE DUCTWORK RECTANGULAR CEILING DIFFUSER (ARROWS INDICATE DIRECTION OF THROW) CIRCULAR CEILING DIFFUSER RETURN/EXHAUST REGISTER OR GRILLE

NECK SIZE OR CORE SIZE LD - LINEAR DIFFUSER LBG - LINEAR BAR GRILLE SR - SUPPLY REGISTER SG - SUPPLY GRILLE

DESIGNATION

LINEAR DIFFUSER

RR - RETURN REGISTER RG - RETURN GRILLE EG - EXHAUST GRILLE ER - EXHAUST REGISTER TG - TRANSFER GRILLE

CD - CEILING DIFFUSER

DD - DRUM DIFFUSER

SIDEWALL DIFFUSER, REGISTER OR GRILLE

DIFFUSER, REGISTER OR GRILLE DEVICE TAG, TYPES:

RECTANGULAR/ROUND SUPPLY AIR DUCTWORK UP

RECTANGULAR/ROUND RETURN OR EXHAUST AIR DUCTWORK UP

RECTANGULAR/ROUND SUPPLY AIR DUCTWORK DOWN

RECTANGULAR/ROUND RETURN OR EXHAUST AIR DUCTWORK DOWN

RECTANGULAR ELBOW WITH TURNING VANES

VOLUME DAMPER

FIRE DAMPER

SMOKE DAMPER MOTOR OPERATED DAMPER

VAV BOX (X INDICATES BOX DESIGNATION)

DUCT MOUNTED COIL

FLEXIBLE DUCT CONNECTION

DUCT MOUNTED SENSOR X INDICATES: SP - STATIC PRESSURE T - TEMPERATURE

H - HUMIDITY

SMOKE DETECTOR

V - VELOCITY WALL MOUNTED THERMOSTAT

 \bigcirc_{RS}

WALL MOUNTED REMOTE SENSOR THERMOSTAT

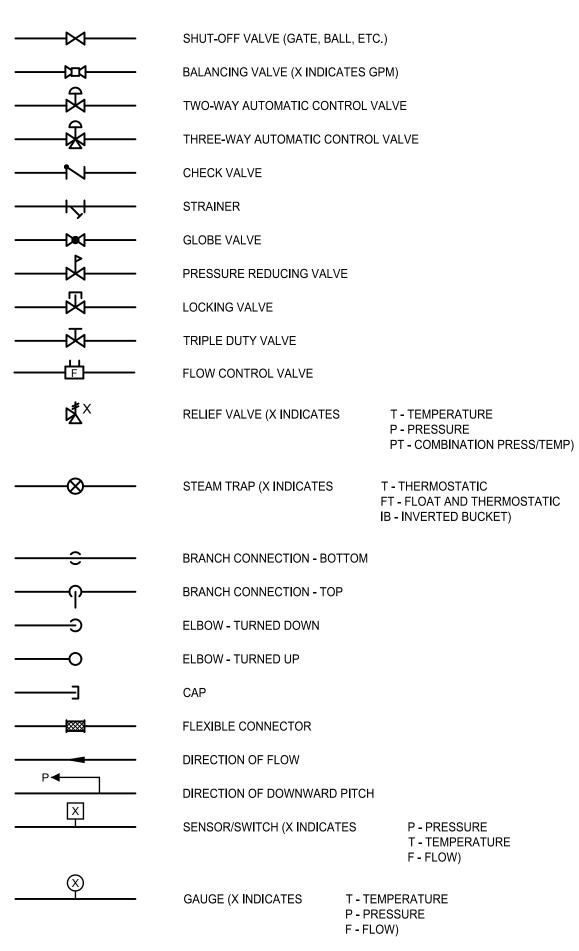
WALL MOUNTED HUMIDISTAT

WALL MOUNTED TEMPERATURE SENSOR

HVAC SYMBOLS - PIPING DESIGNATIONS

EXISTING PIPING (REFER TO DESIGNATIONS BELOW FOR TYPE) PIPING TO BE REMOVED (REFER TO DESIGNATIONS BELOW FOR TYPE) **BOILER BLOWDOWN** CONDENSATE RETURN —— CR —— FEEDWATER ——FW—— HOT WATER SUPPLY HOT WATER RETURN LOW PRESSURE STEAM —— LPS —— MAKE-UP WATER PUMPED DISCHARGE REFRIGERANT - LIQUID REFRIGERANT - SUCTION CHILLED WATER SUPPLY ——CHWS—— CHILLED WATER RETURN CONDENSER WATER SUPPLY ——cws—— CONDENSER WATER RETURN ——CWR—— POINT OF CONNECTION

HVAC SYMBOLS - VALVES & SPECIALTIES



PRESSURE/TEMPERATURE TAP

CIRCULATING PUMP

PIPE GUIDE (PG)

PIPE ANCHOR (PA)

HVAC SYMBOLS - CONTROLS

ACTUATOR

TS **7500000**

DUCT MOUNTED PROBE TYPE SENSORS: TS - TEMPERATURE SENSOR PS - PRESSURE SENSOR HS - HUMIDITY SENSOR CO₂ - CARBON DIOXIDE SENSOR

WELL TYPE TEMPERATURE SENSOR

MOTOR STARTER

HEATING COIL COOLING COIL DIRECT EXPANSION

GAS HEATER

S - SPACE TEMPERATURE SENSOR H - SPACE HUMIDITY SENSOR CO₂ - SPACE CARBON DIOXIDE SENSOR X_G - W/ LOCKABLE, VENTED GUARD

STATIC PRESSURE SENSOR

CONTROL DAMPER

DIFFERENTIAL PRESSURE SENSOR

 $\overline{\mathsf{WW}}$

ELEC/PNEU TRANSDUCER

M OR M CONTROL VALVE

AVERAGING TEMPERATURE

FREEZESTAT

SMOKE DETECTOR

RUN • VARIABLE SPEED • FREQUENCY STATUS • DRIVE NETWORK • VFD

REFRIGERANT COIL

FLOW SWITCH SPACE DIFFERENTIAL PRESSURE SENSOR

AIRFLOW MONITORING STATION

FAN / PUMP

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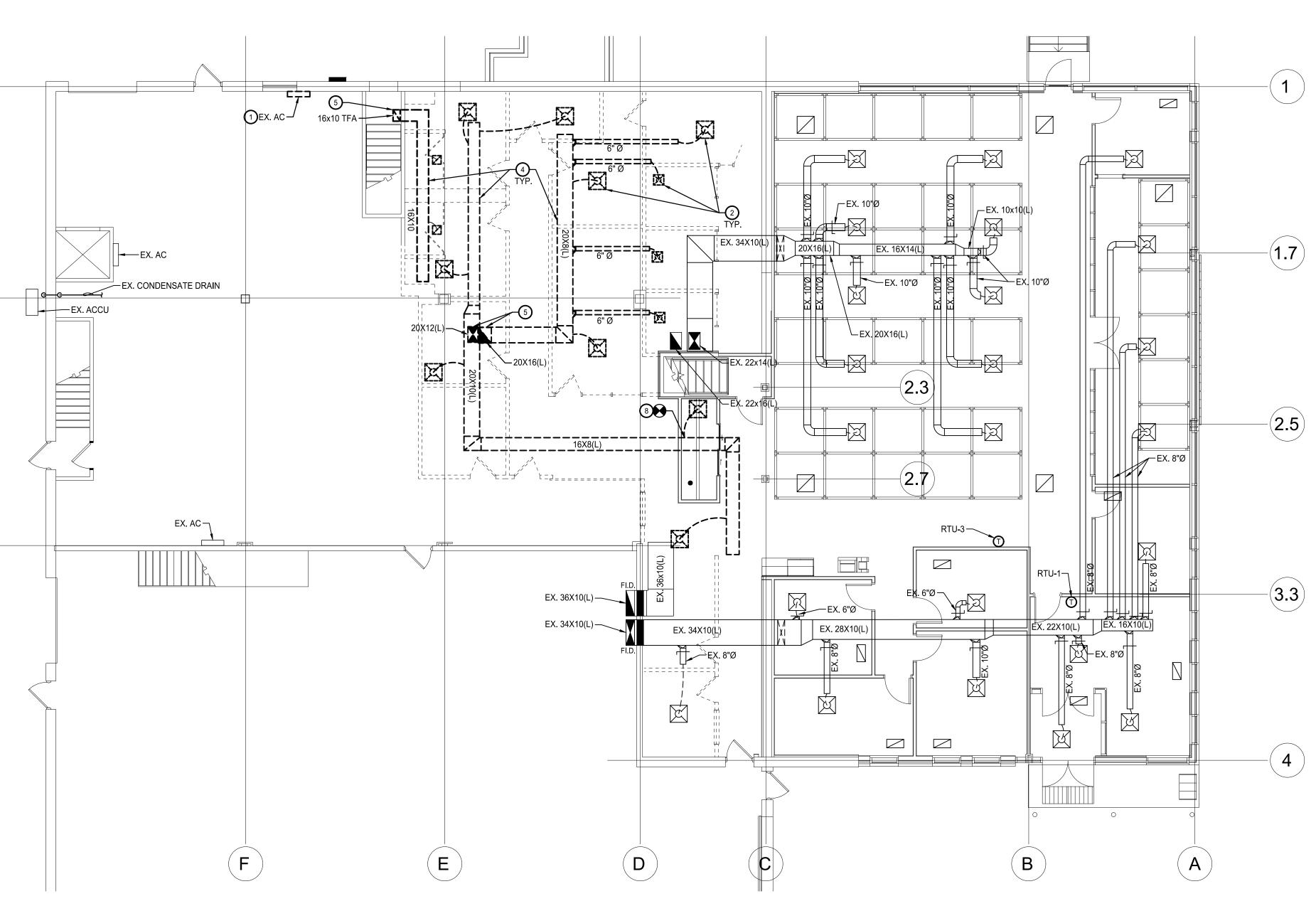
SYMBOLS, ABBREVIATIONS, AND GÉNERAL NOTES

GENERIC SCALE BAR SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING. IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY DATE 10-01-2021 SCALE AS NOTED

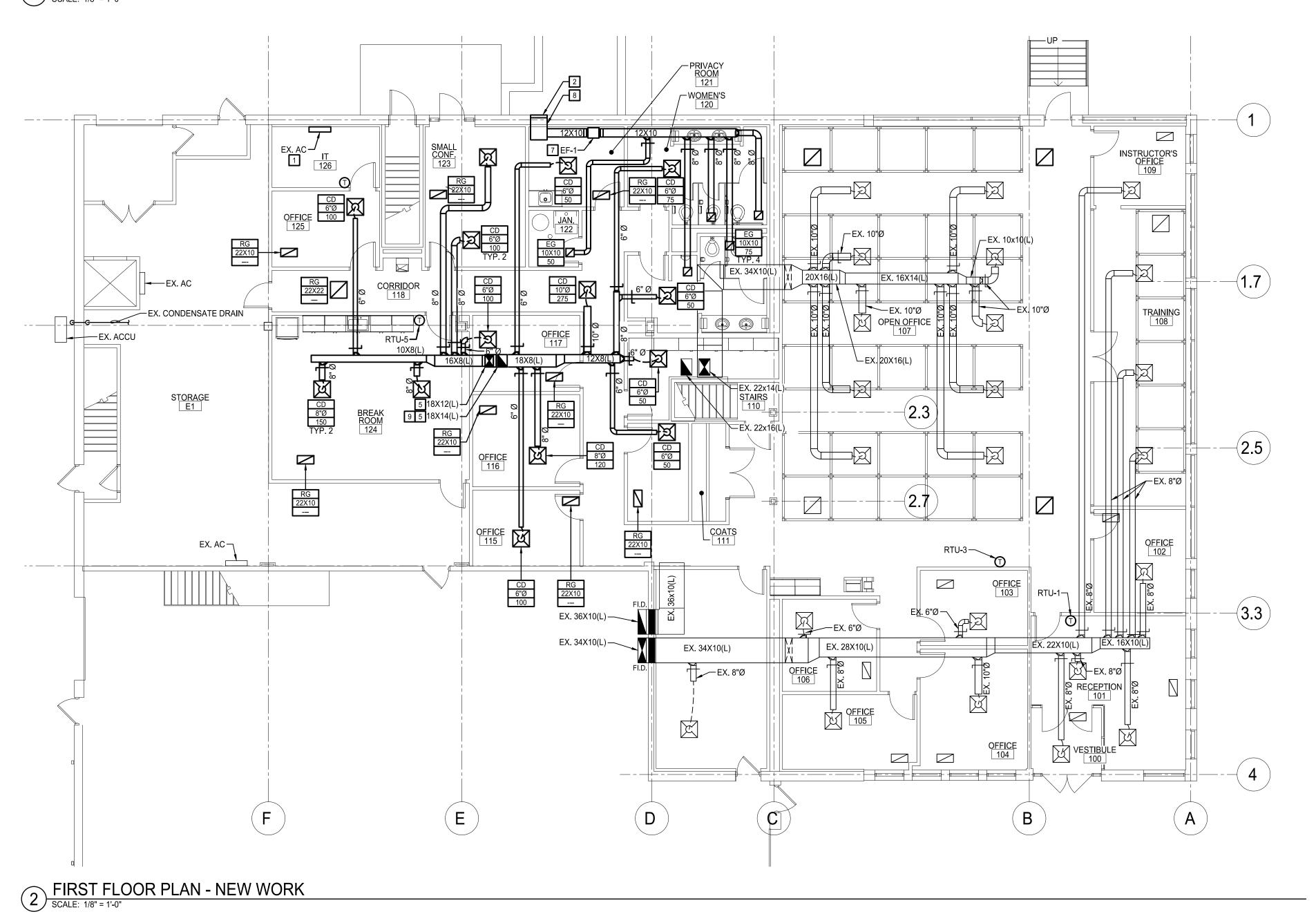
DWN. JWM

PROJ. No. 610101

CHK. CRL



1 FIRST FLOOR PLAN - DEMOLITION SCALE: 1/8" = 1'-0"



DEMOLITION NOTES:

- 1. EXISTING AC UNIT AND SUPPORT BRACKET SHALL BE REMOVED AND STORED FOR REINSTALLATION. DISCONNECT AND REMOVE EXISTING REFRIGERANT, DRAIN, AND ELECTRICAL CONNECTIONS FROM AC UNIT. EVACUATE AND CAPTURE REFRIGERATION PER EPA REQUIREMENTS. REFER TO PLAN 2, THIS SHEET, FOR REINSTALLATION.
- 2. REMOVE CEILING GRILLE/DIFFUSER IN ITS ENTIRETY.
- NOT USED.
- 4. REMOVE DUCTWORK SYSTEM IN ITS ENTIRETY.
- 5. REMOVE DUCT RISER IN ITS ENTIRETY. REFER TO DRAWING M102 FOR CONTINUATION OF REMOVAL.

■ CONSTRUCTION NOTES:

- 1. REINSTALL EXISTING AC UNIT, PIONEER MODEL WS012GMFI22HLD, PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AFTER EXISTING WALL HAS BEEN FURRED. RECONNECT POWER, CONTROL, REFRIGERANT PIPING, AND CONDENSATE DRAIN. RELOCATE EXISTING WIRELESS CONTROLLER.
- 2. COORDINATE FURNISHING AND INSTALLATION OF LOUVER IN EXTERIOR WALL WITH MASONRY CONTRACTOR.
- NOT USED.
- NOT USED.
- 5. DUCTWORK UP THROUGH EXISTING FLOOR OPENING. MODIFY EXISTING OPENING AS REQUIRED TO ALLOW PASSAGE OF DUCTWORK AND INSULATION. PROVIDE FIRE DAMPER IN FLOOR OPENING. REFER TO M102 TO CONTINUATION OF DUCTWORK.
- NOT USED.
- 7. PROVIDE INLINE EXHAUST FAN IN CEILING SPACE. PROVIDE ALL SUPPORTS AND HANGERS TO SUSPEND THE UNIT FROM THE EXISTING BUILDING STRUCTURE. PROVIDE ELASTOMERIC ISOLATORS ON HANGERS. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 8. PROVIDE 24X12 PLENUM BOX AT REAR OF LOUVER, CONFIRM SIZE WITH LOUVER INSTALLER. CONNECT PLENUM BOX TO LOUVER. PROVIDE INSULATION FOR PLENUM AND NEAREST 10 LINEAR FEET OF CONNECTED DUCTWORK. PROVIDE MOTORIZED DAMPER TO BE INTERLOCKED WITH EXHAUST FAN. REFER TO DETAIL 7/M201.
- 9. PROVIDE BIRD SCREEN AT DUCT OPENING.



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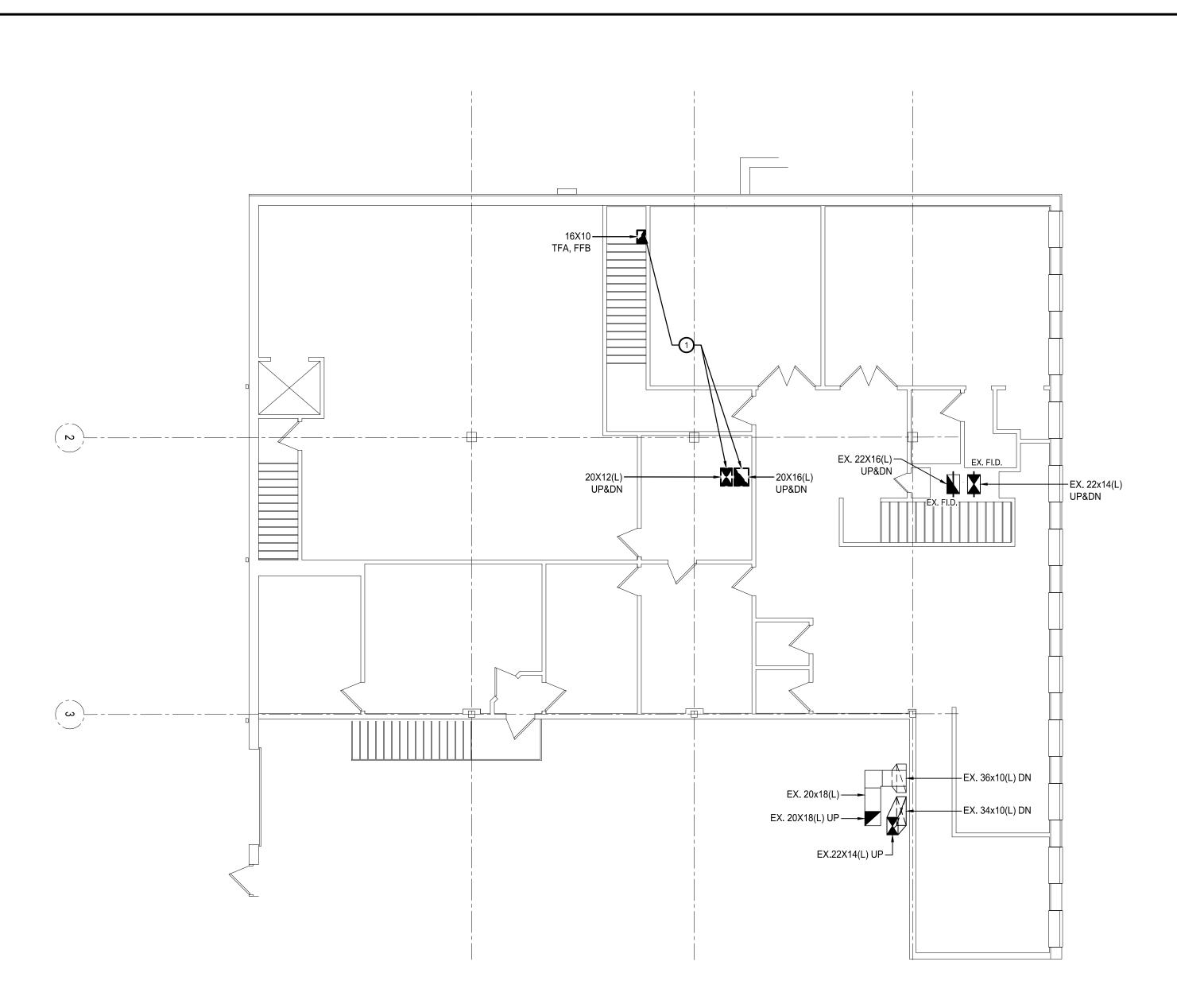
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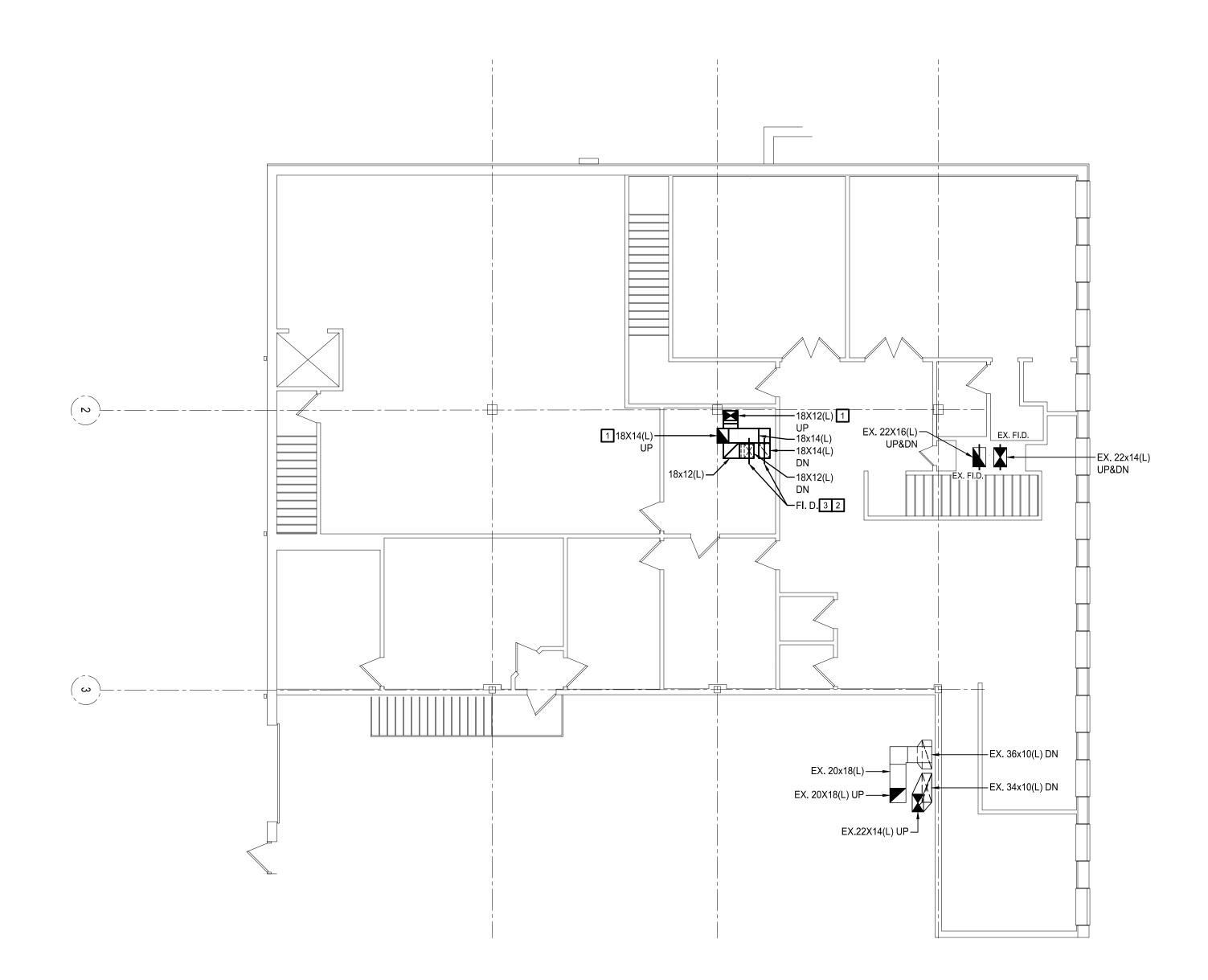
FIRST FLOOR PLANS

DATE 10-01-2021 SCALE AS NOTED

PROJ. No. 610101



SECOND FLOOR PLAN - DEMOLITION SCALE: 1/8" = 1'-0"



SECOND FLOOR PLAN - NEW WORK

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

DEMOLITION NOTES:

REMOVE DUCT RISER IN ITS ENTIRETY.

CONSTRUCTION NOTES:

ROOF OPENING. COORDINATE WORK WITH G.C.

1. SUPPLY AND RETURN DUCTWORK UP THRU ROOF. TRANSITION DUCTWORK

PROVIDE FIRE DAMPER IN DUCTWORK BETWEEN THIS FLOOR AND FLOOR BELOW. REFER TO DETAIL 9/M201.

DUCTWORK DOWN TO FLOOR BELOW. MODIFY EXISTING FLOOR OPENING AS REQUIRED TO ROUTE DUCTWORK TO FLOOR BELOW. COORDINATE WORK WITH G.C.

WITHIN ROOF CURB TO MAKE CONNECTION TO ROOFTOP UNIT. PROVIDE



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NOTE:

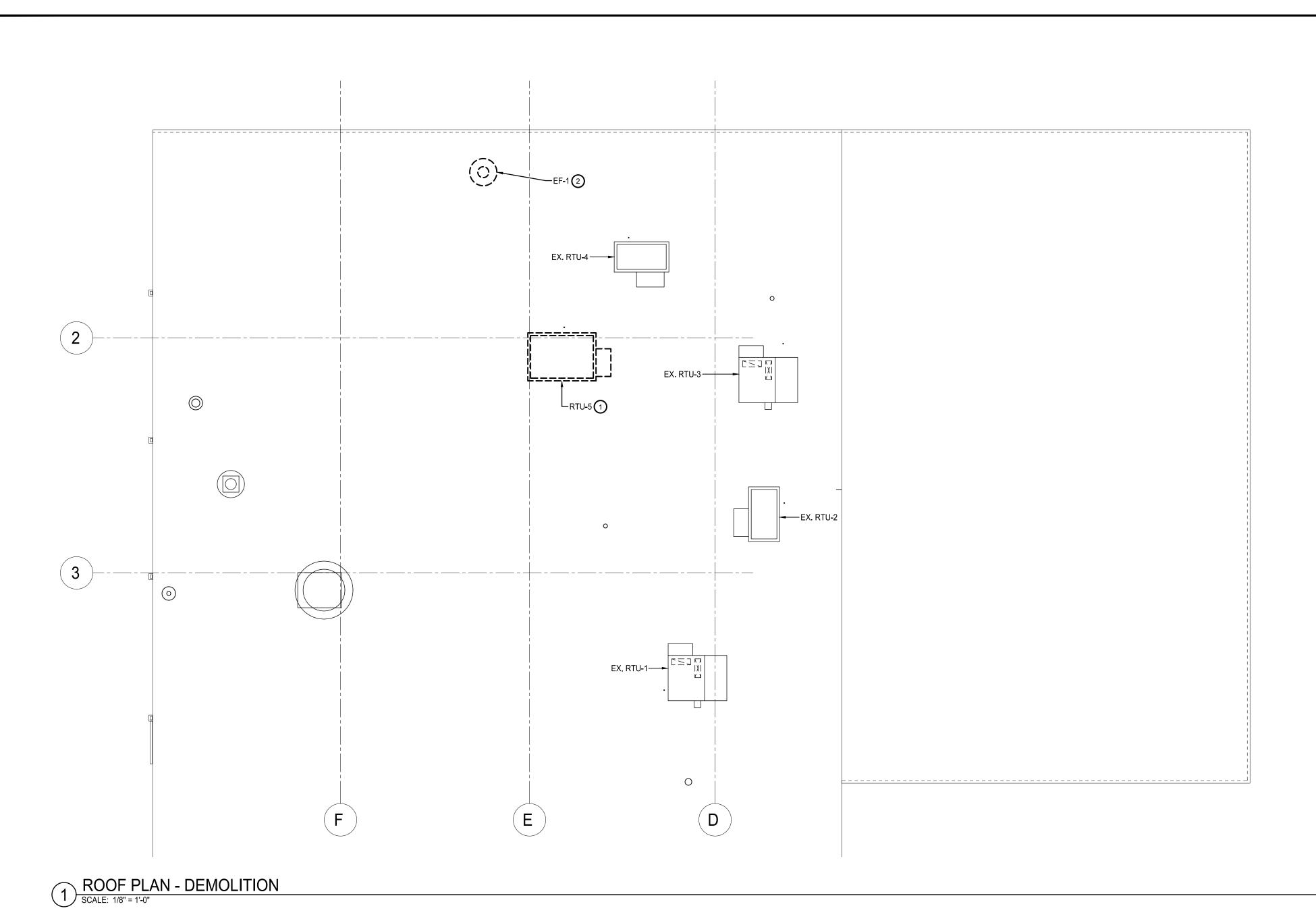
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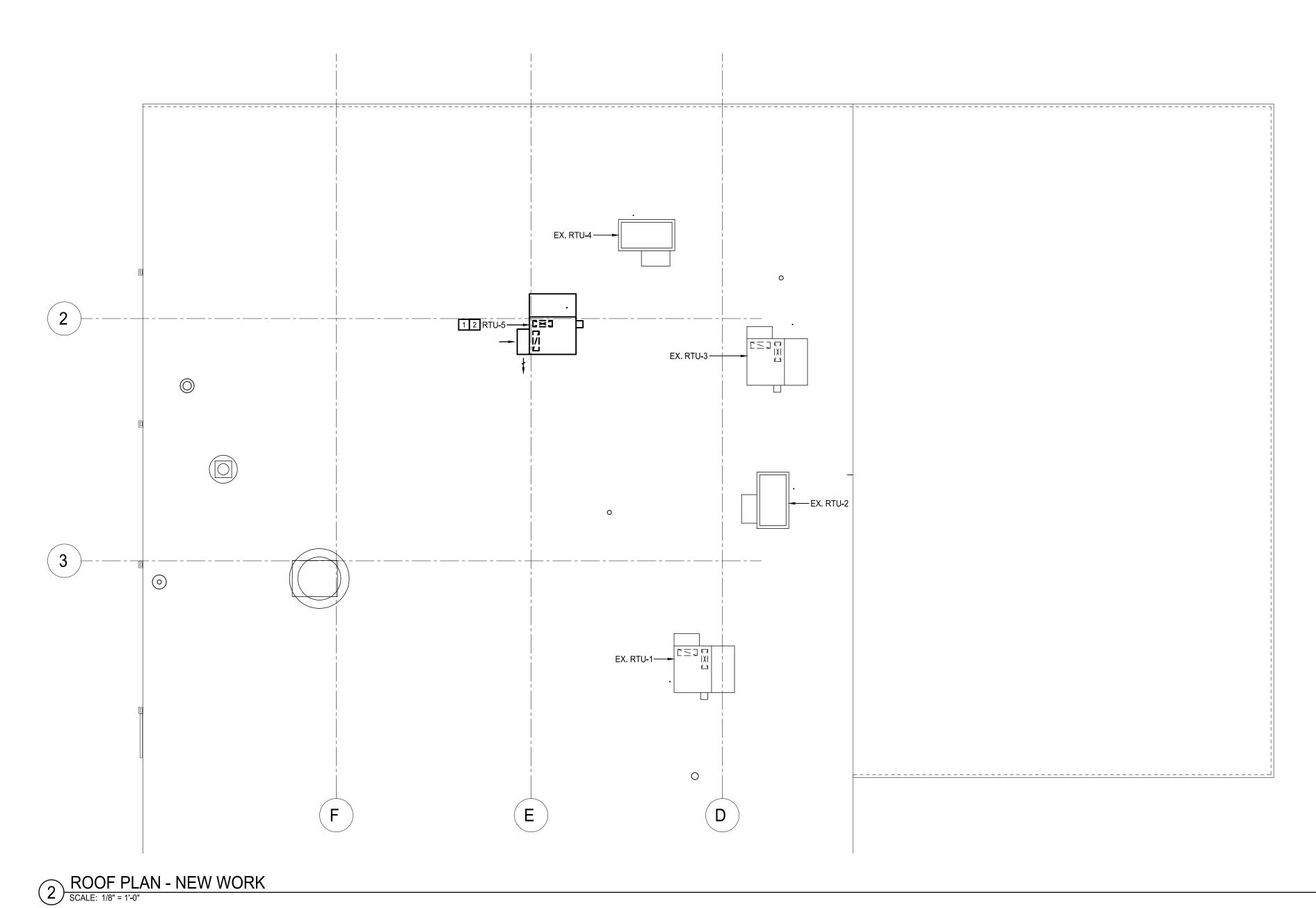
REVISIONS

SECOND FLOOR PLANS

DATE 10-01-2021

SCALE AS NOTED PROJ. No. 610101





DEMOLITION NOTES:

- DISCONNECT AND REMOVE ROOFTOP UNIT AND CURB. ISOLATE, DISCONNECT AND LEAVE FOR RECONNECTION EXISTING NATURAL GAS PIPING. COORDINATE ELECTRICAL REMOVAL WITH DIVISION 26. REMOVAL SHALL INCLUDE BUT NOT BE LIMITED TO: UNIT, CURB, CONNECTORS, POWER, CONTROLS AND OTHER ASSOCIATED EQUIPMENT AS REQUIRED TO ACCOMMODATE WORK.
- DISCONNECT AND REMOVE EXHAUST FAN AND CURB. COORDINATE REMOVAL WITH DIVISION 26. REMOVAL SHALL INCLUDE BUT NOT BE LIMITED TO: UNIT, CURB, CONNECTORS, ETC. COORDINATE INFILL WORK WITH G.C. INTENT IS TO MATCH EXISTING ADJACENT.

CONSTRUCTION NOTES:

- PROVIDE WIND-RATED ROOF CURB, CONTINUOUSLY ANCHORED TO STRUCTURAL STEEL. CURB SHALL ACCOMMODATE THE OWNER-FURNISHED ROOF MOUNTED EQUIPMENT. REFER TO DETAIL 6/M201.
- 2. INSTALL ROOFTOP UNIT FURNISHED BY OWNER. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATE ELECTRICAL CONNECTION WITH DIVISION 26. COORDINATE RECONNECTION OF NATURAL GAS WITH DIVISION 22. CONNECT DUCTWORK FROM BELOW. CONTRACTOR RESPONSIBLE FOR RECEIVING UNITS AND TO PROVIDE ALL REQUIRED ASSOCIATED EQUIPMENT, SUPPORTS, AND OTHER APPURTENANCES TO ACHIEVE A FULLY FUNCTIONING SYSTEM.



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ROOF PLANS

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O 1" 2"

GENERIC SCALE BAR

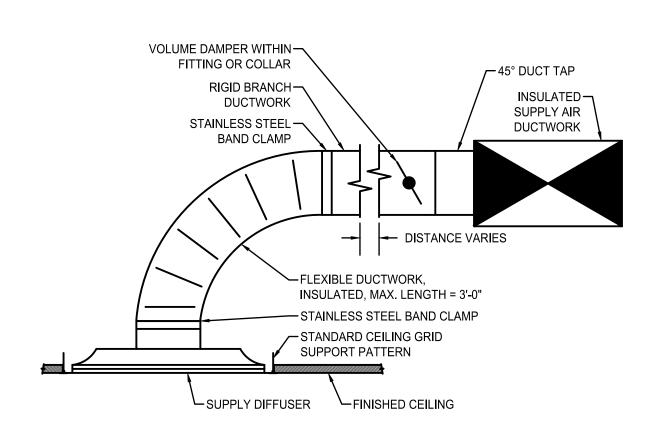
SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING. IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY

DATE 10-01-2021

SCALE AS NOTED

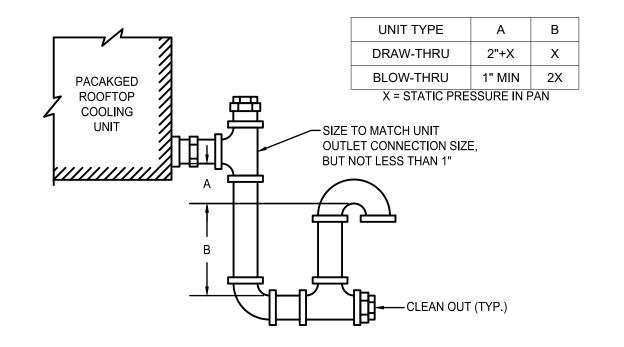
DWN. JWM CHK. CRL

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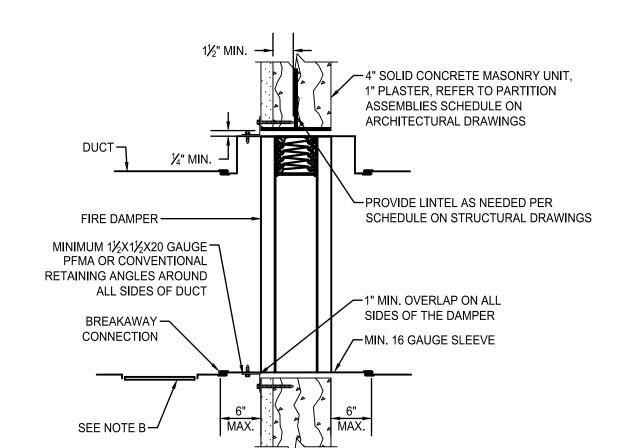
TYPICAL CEILING DIFFUSER INSTALLATION DETAIL SCALE: NO SCALE

- A. CONTRACTOR TO VERIFY TYPE OF DIFFUSER PRIOR TO PURCHASING TO DETERMINE IF SURFACE MOUNTED OR LAY-IN STYLE IS REQUIRED IN EACH LOCATION.
- B. OFFSETS WITH FLEX DUCT SHALL NOT EXCEED 30° AND SHALL BE GRADUAL. OFFSETS IN EXCESS OF 30° SHALL BE HARD-DUCTED. GRADUAL 90° OFFSET IS PERMITTED WHERE SPACE IS AVAILABLE.
- . FLEX DUCT SHALL NOT HAVE MORE THAN ½" SAG PER FOOT. LENGTH OF FLEX DUCT SHALL NOT EXCEED 3'-0".
- PROVIDE DUCT MOUNTED VOLUME DAMPER AS CLOSE TO MAIN DUCT AS POSSIBLE. F. PROVIDE SINGLE BLADE DAMPERS UP TO 12" HIGH AND ON ROUND DUCT. PROVIDE MULTI BLADE DAMPERS ON ALL DUCTS OVER 12" HIGH PER SMACNA REQUIREMENTS.
- G. PROVIDE LOCKING STYLE DAMPER HANDLE REGULATORS WITH HEXAGON NOT, DURO DYNE OR APPROVED EQUAL.



800FTOP UNIT CONDENSATE DRAIN DETAIL SCALE: NO SCALE

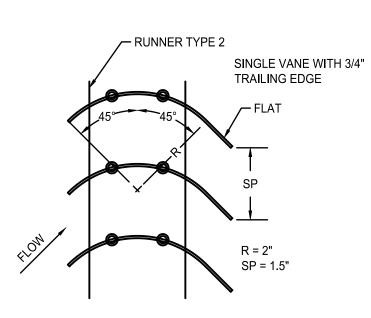
- A. AS AN ALTERNATIVE, IT IS ACCEPTABLE TO PIPE THE TRAP EXACTLY AS IT IS SHOWN IN THE MANUFACTURER'S INSTALLATION MANUAL.
- B. PIPE MATERIAL SHALL BE PVC UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS.
- C. DIELECTIC FITTINGS TO BE USED WHEN TWO DIS-SIMILAR METALS ARE CONNECTED.



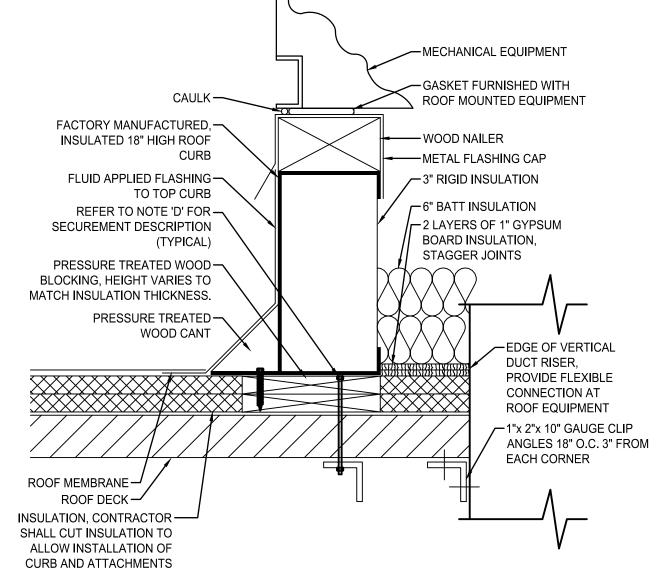
9 CURTAIN STYLE FIRE DAMPER DETAIL SCALE: NO SCALE

NOTES:

- A. PROVIDED FOR GENERAL INSTALLATION GUIDANCE. ACTUAL INSTALLATION SHALL
- CONFORM TO MANUFACTURER'S INSTALLATION GUIDELINES IN ALL RESPECTS TO MAINTAIN UL RATING OF ASSEMBLY. B. ACCESS DOOR: MINIMUM SIZE 12x12. IF DUCT IS LESS THAN 14" WIDE, PROVIDE 24" LONG
- REMOVABLE DUCT SECTION, FLANGED, GASKETED AND SECURED WITH WING NUTS WITH 8x8 ACCESS INSPECTION DOOR. IF ASSEMBLY IS PROVIDED WITH FACTORY INSTALLED ACCESS DOOR, DAMPER SLEEVE SHALL BE 16" MAX. BEYOND THE EDGE OF THE RATED CONSTRUCTION.
- C. FASTENERS SHALL BE MINIMUM #10 SCREWS SPACED 6" O.C. SLEEVE ATTACHMENT, AND 12" O.C. AT WALL/FLOOR ATTACHMENT, MINIMUM 2 FASTENERS PER SIDE.
- D. HORIZONTAL INSTALLATION IS SIMILAR.

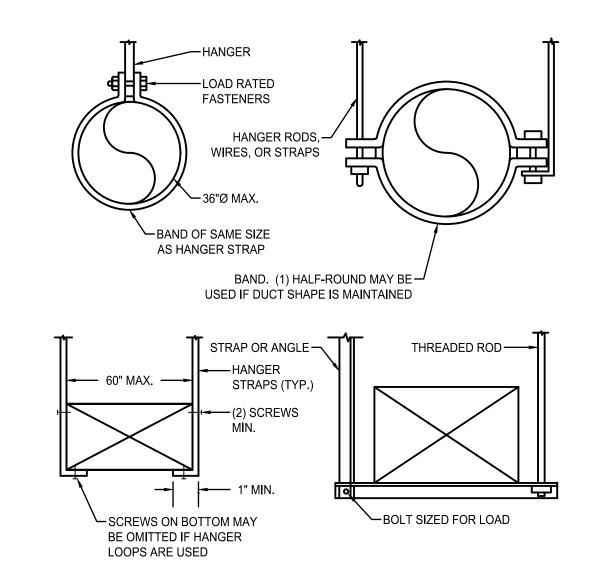


2 TURNING VANE DETAIL SCALE: NO SCALE



6 ROOF MOUNTED EQUIPMENT CURB DETAIL SCALE: NO SCALE

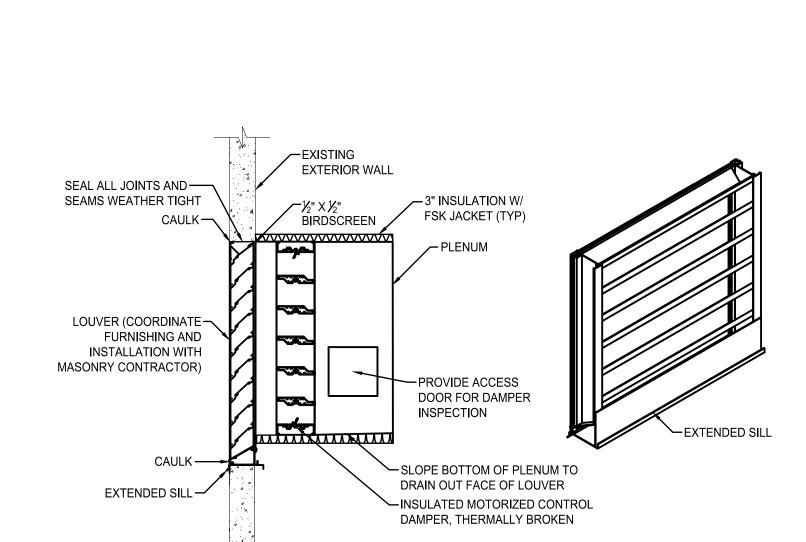
- A. ALL ROOF MOUNTED HVAC UNITS REQUIRED TO HAVE CURB AND CURB INTERIOR AS
- B. DUCT RISERS THRU CURB SHALL HAVE FIRE DAMPERS AT ROOF PENETRATION WHERE
- REQUIRED BY THE CODE COMPLIANCE DRAWING. C. INSTALL ROOFING PER NRCA REQUIREMENTS. CONTRACTOR SHALL REFER TO
- ARCHITECTURAL PLANS AND DETAILS FOR SPECIFIC ROOF TYPE AND REQUIREMENTS AT INDIVIDUAL CURB LOCATIONS.
- D. CONTRACTOR SHALL PERFORM DESIGN ANALYSIS INCLUDING: DEAD LOADS, WIND LOADS, AND CAPACITY OF MATERIALS UTILIZED FOR METHOD OF CONNECTION. ANALYSIS SHALL INCLUDE ANCHORING METHODS USED, BOLT DIAMETERS, AND EMBEDMENT DEPTH. ALL RESTRAINT SYSTEMS SHALL BE DESIGNED TO WITHSTAND WIND LOADS WITHOUT FAILURE PER INTERNATIONAL BUILDING CODE, AND REQUIREMENTS SET FORTH BY THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) AND STAMPED BY A MASS. LICENSED P.E. WHERE REQUIRED BY THE ABOVE, PROVIDE A ROOF CURB WHICH DEMONSTRATES COMPLIANCE WITH INTERNATIONAL BUILDING CODE 1604.9 AND 1604.10 AND DEMONSTRATES A CONTINUOUS LOAD PATH FROM EQUIPMENT THROUGH CURB, AND CURB ADAPTER IF PRESENT, TO THE BUILDING TO ACCOMMODATE WIND LOADING AND BE DESIGNED PER ASCE 7.



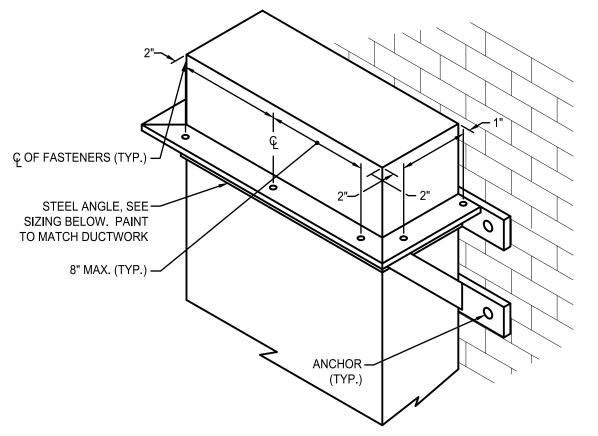
3 DUCTWORK SUPPORT DETAIL SCALE: NO SCALE

NOTES:

- A. ROD DIMENSIONS AND ANCHORS SHALL BE SIZED PER MANUFACTURERS
- RECOMMENDATIONS. B. HANGERS MUST NOT DEFORM DUCT SHAPE



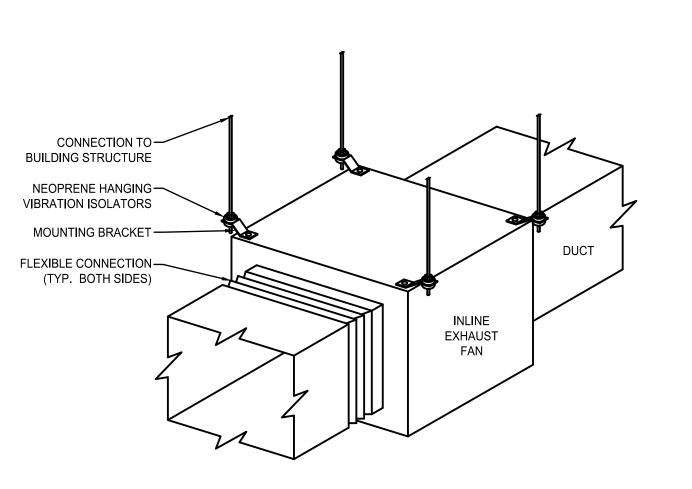
7 LOUVER INSTALLATION DETAIL
SCALE: NOT TO SCALE



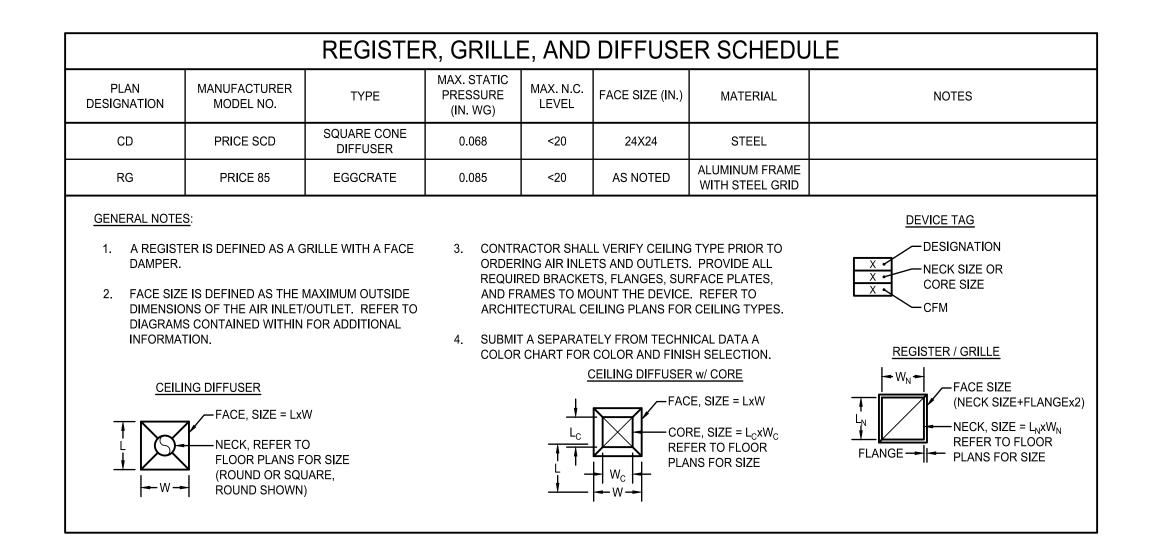
ANGLE IRON SIZING									
DUCT SIZE UP TO (IN x IN)	ANGLE (IN x IN x IN)	DUCT GAUGE	ALLOWABLE LOAD PER FASTENER (LB)						
36x18	1 x 1x 1/8	28,26	25						
48x30	1-1/4 x 1-1/4 x 1/8	24,22,20	35						

4 DUCT RISER SUPPORT DETAIL SCALE: NO SCALE

- A. BRACKETS SPACED 12 FT O.C., MAXIMUM. PROVIDE MINIMUM (2) SUPPORT LOCATIONS
- B. LOCATE DUCT WITHIN 2" OF WALL.
- C. EACH ANCHOR SHALL SATISFY THE FOLLOWING CRITERIA:
- TENSILE LOAD: 3/8 x 4 x DUCT WEIGHT 2. SHEAR LOAD: ½ x 4 x DUCT WEIGHT



8 INLINE EXHAUST FAN DETAIL
SCALE: NO SCALE





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DETAILS AND

SCHEDULES

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SYMBOLS & ABBREVIATIONS SCHEDULE **RECEPTACLES** DUPLEX RECEPTACLE OUTLET, 18" A.F.F., TAMPER RESISTANT, 20AMP COMMERCIAL GRADE GROUNDING TYPE WITH MATCHING COVERPLATE. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO. GFCI RECEPTACLE OUTLET, 18" A.F.F., TAMPER RESISTANT, 20AMP COMMERCIAL GRADE GROUNDING TYPE WITH MATCHING COVERPLATE. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO. DUPLEX RECEPTACLE OUTLET, 18" AFF., TAMPER RESISTANT, 20AMP COMMERCIAL GRADE GROUNDING TYPE WITH MATCHING COVERPLATE. TAG INDICATES PANELBOARD & DEDICATED BRANCH CIRCUIT THAT IT IS CONNECTED TO RECEPTACLE SHALL BE SUPPLIED BY A GFCI CIRCUIT BREAKER. PROVIDE LABEL ON COVER "PROTECTED BY GFCI" INDICATES (2) TAMPER RESISTANT. 20 AMP. COMMERCIAL GRADE RECEPTACLES IN 2-GANG BOX UNDER A COMMON MATCHING COVERPLATE. RECEPTACLES SHALL BE GROUNDING TYPE. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO. (2) GFCI RECEPTACLE OUTLETS. 18" A.F.F.. TAMPER RESISTANT, 20AMP COMMERCIAL GRADE GROUNDING TYPE IN 2-GANG BACKBOX WITH MATCHING COMMON COVERPLATE. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO. RANGE OR DRYER OUTLET VERIFY RECEPTACLE NEMA CONFIGURATION, RATING & INSTALLATION HEIGHT WITH SELECTED EQUIPMENT SUPPLIER. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO. COVER PLATES SHALL BE STAINLESS STEEL. SPECIAL PURPOSE RECEPTACLE AS CALLED FOR ON DRAWINGS OR AS REQUIRED BY EQUIPMENT MANUFACTURER. VERIFY NEMA CONFIGURATION. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO. FLOOR MOUNTED RECEPTACLE AS CALLED FOR ON DRAWINGS OR AS REQUIRED BY EQUIPMENT MANUFACTURER. UNLESS OTHERWISE NOTED, PROVIDE RECESSED IN CONCRETE WITH A METAL COVER. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO. PROVIDE COMPLETE ELECTRICAL POWER CONNECTION TO MODULAR FURNITURE. WHIP TO BE PROVIDED WITH WALL - J FURNITURE. CONNECTION SHALL INCLUDE MINIMUM WALL OR FLOOR JUNCTION BOX, WIRING TO CIRCUIT INDICATED, FLOOR—(J)~ FINAL CONNECTION TO APPROPRIATE FURNITURE GROUP. WALL MOUNTED JUNCTION BOX, SIZE AS INDICATED OR PROVIDE MINIMUM SIZE REQUIRED BY LATEST EDITION OF NATIONAL ELECTRICAL CODE (NFPA 70-NEC). CEILING MOUNTED JUNCTION BOX, SIZE AS INDICATED OR PROVIDE MINIMUM SIZE REQUIRED BY LATEST EDITION OF NATIONAL ELECTRICAL CODE (NFPA 70-NEC). PROVIDE COMPLETE ELECTRICAL CONNECTION TO EQUIPMENT INDICATED (INCLUDING DISCONNECT, CONDUCTORS, RACEWAY, & OTHER REQUIRED HARDWARE. XX-X INDICATES EQUIPMENT TAG. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION. PROVIDE COMPLETE ELECTRICAL CONNECTION TO MOTOR INDICATED (INCLUDING DISCONNECT, STARTER, CONDUCTORS, RACEWAY, & OTHER REQUIRED HARDWARE. XX-X INDICATES EQUIPMENT TAG. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION. EMERGENCY POWER OFF BUTTON (EPO). PROVIDE WHERE INDICATED ON DRAWINGS. PROVIDE ALL REQUIRED INTERFACES AS CALLED FOR ON DRAWINGS OR REQUIRED BY EQUIPMENT MANUFACTURER. ELECTRICAL PANELBOARD, SURFACE MOUNTED. UNLESS OTHERWISE NOTED, INSTALL AT 72" A.F.F. TO THE TOP OF THE ELECTRICAL PANELBOARD, FLUSH MOUNTED. UNLESS OTHERWISE NOTED, INSTALL AT 72" A.F.F. TO THE TOP OF THE BOX. TYPICAL WALL ---YPICAL DISCONNECT (SAFETY SWITCH). REFER TO DRAWINGS FOR SIZE & ADDITIONAL FUSING REQUIREMENTS. TYPICAL DRY-TYPE TRANSFORMER (SIZE MIGHT VARY). UNLESS OTHERWISE NOTED, PROVIDE FLOOR MOUNTED WITH CONCRETE EQUIPMENT PAD. ELECTRICAL PIECE OF EQUIPMENT. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION, LUMINAIRE SYMBOLS ARE SHOWN TO INDICATE GENERAL SHAPE & SIZE, ACTUAL SYMBOLS MY VARY) LUMINAIRE (RECESSED). REFER TO LUMINAIRE SCHEDULE FOR ADDTIONAL INFORMATION. UPPERCASE LETTER INDICATES TYPE IN LUMINAIRE SCHEDULE, LOWERCASE LETTER INDICATES TYPE OF SWITCHED LEG, NUMBER INDICATES CIRCUIT IN PANELBOARD. LUMINAIRE (SURFACE OR PENDANT MOUNTED). REFER TO LUMINAIRE SCHEDULE FOR ADDTIONAL INFORMATION. UPPERCASE LETTER INDICATES TYPE IN LUMINAIRE SCHEDULE, LOWERCASE LETTER INDICATES TYPE OF SWITCHED LEG, NUMBER INDICATES CIRCUIT IN PANELBOARD. RECESSED DOWNLIGHT. REFER TO LUMINAIRE SCHEDULE FOR ADDTIONAL INFORMATION. UPPERCASE LETTER INDICATES TYPE IN LUMINAIRE SCHEDULE, LOWERCASE LETTER INDICATES TYPE OF SWITCHED LEG, NUMBER INDICATES RECESSED WALLWASHER. REFER TO LUMINAIRE SCHEDULE FOR ADDTIONAL INFORMATION. UPPERCASE LETTER INDICATES TYPE IN LUMINAIRE SCHEDULE, LOWERCASE LETTER INDICATES TYPE OF SWITCHED LEG, NUMBER INDICATES CIRCUIT IN PANELBOARD EMERGENCY LUMINAIRE, PROVIDE LUMINAIRE TYPE AS INDICATED. REFER TO PLANS & SPECIFICATIONS FOR ADDITIONAL INFORMATION. PROVIDE BATTERY BACK UP POWER INTEGRAL TO LUMINAIRE. WALL LIGHT SWITCH, ROMAN NUMERAL INDICATES NUMBER OF SWITCHES GANGED UNDER ONE COVERPLATE. LOWER CASE LETTERS INDICATE SWITCHING. PROVIDE WITH MATCHING COVERPLATES "K" - KEYED SWITCH. "3" - 3-WAY "4" - 4-WAY "WP" - WATERPROOF (IP66 MINIMUM) WALL MOUNTED DIMMER CONTROLLER (LED OR FLUORESCENT). ROMAN NUMERAL INDICATES NUMBER OF SWITCHES GANGED UNDER COMMON COVERPLATE. LOWER CASE LETTERS INDICATE SWITCHING. UNLESS OTHERWISE NOTED, PROVIDE 0-10VDC. COORDINATE & PROVIDE ANY ADDITIONAL WIRING REQUIREMENTS. LOW VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR (AUTO ON, AUTO OFF) WITH DUAL TECHNOLOGY SENSING & 360° VIEW CAPABILITY. PROVIDE COMPLETE WITH ALL REQUIRED RELAYS & WIRING AS REQUIRED BY SELECTED EQUIPMENT WALL MOUNTED OCCUPANCY SENSOR (AUTO ON, AUTO OFF) TYPE SWITCH. LOW VOLTAGE CORNER MOUNTED OCCUPANCY SENSOR WITH DUAL TECHNOLOGY SENSING. PROVIDE COMPLETE WITH ALL REQUIRED RELAYS & WIRING AS REQUIRED BY SELECTED EQUIPMENT MANUFACTURER. LOW VOLTAGE CEILING MOUNTED VACANCY SENSOR (MANUAL ON, AUTO OFF) WITH DUAL TECHNOLOGY SENSING & 360° VIEW CAPABILITY. PROVIDE COMPLETE WITH ALL REQUIRED RELAYS & WIRING AS REQUIRED BY SELECTED EQUIPMENT MANUFACTURER. REPLACE EXISTING WALL SWITCHES WITH LOW VOLTAGE (MOMENTARY CONTACT TYPE) & MODIFY EXISTING WIRING AS REQUIRED. WALL MOUNTED VACANCY SENSOR (MANUAL ON, AUTO OFF) TYPE SWITCH. LOW VOLTAGE CORNER MOUNTED VACANCY SENSOR (MANUAL ON, AUTO OFF) WITH DUAL TECHNOLOGY SENSING. PROVIDE COMPLETE WITH ALL REQUIRED RELAYS, LOW VOLTAGE SWITCHING & WIRING AS REQUIRED BY SELECTED EQUIPMENT MANUFACTURER. REPLACE EXISTING WALL SWITCHES WITH LOW VOLTAGE (MOMENTARY CONTACT TYPE) & MODIFY EXISTING WIRING AS REQUIRED.

DAYLIGHT HARVESTING PHOTOCELL. PROVIDE COMPLETE WITH ALL REQUIRED MOUNTING HARDWARE & INTERCONNECTION TO CONTROLLER AS SPECIFIED. LOCATE IN ROOM PER MANUFACTURERS REQUIREMENTS.

REFER TO LUMINAIRE SCHEDULE & SITE LIGHTING PLAN FOR ADDITIONAL INFORMATION.

MEET OR EXCEED MINIMUM OPERATION TIME REQUIRED BY CODE.

EM/NL EMERGENCY AND/OR NIGHTLIGHT

THE ASSOCIATED ROOM.

✓—SWITCH LEG

T42,á,13 ----- BRANCH CIRCUIT

TYPICAL LUMINAIRE NOTATION

LUMINAIRE MOUNTING HEIGHT TAG. INDICATES THE HEIGHT THAT THE BOTTOM OF LUMINAIRE SHALL BE INSTALLED IN

TYPICAL SITE LUMINAIRE (EXACT SYMBOL MAY VARY). SHALL INCLUDE LUMINAIRE HEAD, POLE, & CONCRETE BASE.

EMERGENCY LUMINAIRE UNIT, SHALL BE WITH BATTERY BACKUP. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION. BATTERY CAPACITY SHALL MEET OR EXCEED MINIMUM OPERATION TIME REQUIRED BY CODES.

EXIT SIGN (LED TYPE), SHALL PROVIDED WITH INTEGRAL BATTERY BACKUP. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION. VERIFY SHEVRON DIRECTION IN FIELD, PROVIDE AS REQUIRED. BATTERY CAPACITY SHALL

FIRE ALARM FIRE ALARM SYSTEM SMOKE SENSOR. (CEILING MOUNTED) PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. (ROUND-CEILING MOUNTED, SQUARE-WALL MOUNTED). FIRE ALARM SYSTEM HEAT DETECTOR. UNLESS OTHERWISE NOTED, PROVIDE COMBINATION FIXED (135°F) & RATE-OF-RISE (15° PER MINUTE) TYPE DEVICE. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. FIRE ALARM SYSTEM HEAT DETECTOR. PROVIDE WITH FIXED TEMPERATURE SENSING ELEMENT (190°F OR AS OTHERWISE NOTED). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. CARBON MONOXIDE DETECTOR. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. CEILING — MOUNTED FLAME DETECTOR, CEILING MOUNTED. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. TAG INDICATES UV OR IR TECHNOLOGY. FIRE ALARM SYSTEM DUCT DETECTOR. PROVIDE COMPLETE INSTALLATION INCLUDING SAMPLING TUBES EXTENDING THE FULL WIDTH OF DUCT. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. FIRE ALARM SYSTEM REMOTE TEST STATION. PROVIDE WHERE INDICATED ON DRAWING & INTERFACE WITH DETECTION DEVICE INDICATED. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. FIRE ALARM SYSTEM MANUAL PULL STATION. PROVIDE COMPLETE INSTALLATION WITH PROTECTIVE COVER WHERE REQUIRED. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. RECEIVER-FIRE ALARM SYSTEM BEAM DETECTOR TRANSMITTER & RECEIVER SYSTEM. PROVIDE COMPLETE INSTALLATION INCLUDING REMOTE TEST STATION. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. TRANSMITTER FIRE ALARM SYSTEM WATER FLOW SWITCH. PROVIDE COMPLETE INTERFACE BETWEEN FLOW SWITCH & FIRE ALARM CONTROL PANEL. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. FIRE ALARM SYSTEM TAMPER SWITCH. PROVIDE COMPLETE INTERFACE BETWEEN TAMPER SWITCH & FIRE ALARM CONTROL PANEL. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. FIRE ALARM SYSTEM AUDIO/VISUAL NOTIFICATION APPLIANCE (WALL MOUNTED BETWEEN 80" TO 96", INSTALL NOT CLOSER THEN 6" TO THE FINISHED CEILING). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. UNLESS OTHERWISE NOTED, PROVIDE 15cd VISUAL DEVICE FIRE ALARM SYSTEM VISUAL NOTIFICATION APPLIANCE (WALL MOUNTED BETWEEN 80" TO 96", INSTALL NOT CLOSER THEN 6" TO THE FINISHED CEILING). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. UNLESS OTHERWISE NOTED, PROVIDE 15cd VISUAL DEVICE. FIRE ALARM SYSTEM AUDIO NOTIFICATION APPLIANCE (WALL MOUNTED BETWEEN 80" TO 96", INSTALL NOT CLOSER THEN 6" TO THE FINISHED CEILING). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. FIRE ALARM SYSTEM AUDIO/VISUAL NOTIFICATION APPLIANCE (CEILING MOUNTED). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. UNLESS OTHERWISE NOTED, PROVIDE 75cd VISUAL DEVICE. FIRE ALARM SYSTEM VISUAL NOTIFICATION APPLIANCE (CEILING MOUNTED). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. UNLESS OTHERWISE NOTED, PROVIDE 75cd VISUAL DEVICE. FIRE ALARM SYSTEM AUDIO NOTIFICATION APPLIANCE (CEILING MOUNTED). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. FIRE ALARM SYSTEM WATER FLOW ALARM INTERFACE. PROVIDE COMPLETE ELECTRICAL INTERFACE TO ALARM (PROVIDED & INSTALLED BY SPRINKLER CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. FIRE ALARM SYSTEM ZONE ADDRESSABLE MODULE. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. FIRE ALARM SYSTEM CONTROLLABLE ZONE ADDRESSABLE MODULE. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. FIRE ALARM SYSTEM INDIVIDUAL ADDRESSABLE MODULE. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. FIRE ALARM SYSTEM FAN SHUT-DOWN RELAY. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. CONTACT RATING SHALL MATCH FAN MOTOR FEEDER RATING. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. FIRE ALARM SYSTEM ISOLATION MODULE. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. INSTALL EVERY 25TH INITIATING DEVICE ON SLC LOOP. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. FIRE ALARM SYSTEM ELECTROMAGNETIC DOOR HOLDER. VERIFY REQUIRED VOLTAGE PRIOR TO ORDERING. PROVIDE COMPLETE INTERFACE TO FACP AS REQUIRED. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. TYPICAL FIRE ALARM CONTROL PANEL. SURFACE OR FLUSH MOUNTED. PROVIDE WHERE INDICATED ON FLOOR PLANS. INSTALL APPROXIMATELY 72" A.F.F. TO TOP OF BOX. PROVIDE DEDICATED 120VAC, 20A/1P CIRCUIT ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. FIRE ALARM NOTIFICATION APPLIANCE CONTROL PANEL (POWER SUPPLY). PROVIDE WHERE INDICATED ON FLOOR PLANS. INSTALL APPROXIMATELY 72" A.F.F. TO TOP OF BOX. PROVIDE DEDICATED 120VAC, 20A/1P CIRCUIT ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. FIRE ALARM SYSTEM REMOTE ANNUNCIATOR PANEL. PROVIDE WHERE INDICATED ON FLOOR PLANS. INSTALL APPROXIMATELY 72" A.F.F. TO TOP OF BOX. PROVIDE INTERFACE TO FACP ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. DATA (SYSTEMS) DATA DROP LOCATION. UNLESS OTHERWISE NOTED, PROVIDE MINIMUM OF (1) CAT 6 CABLE & TERMINATIONS, INSTALL 18" AFF, EXTENSION RING & ASSOCIATED JACKS. PROVIDE 3/4" RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE WITH COVERPLATE. ALL DATA CABLES SHALL BE PROPERLY TERMINATED AT BOTH ENDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. A/V CONNECTION FOR WALL MOUNTED FLAT PANEL DISPLAY. PROVIDE NETWORK DATA CABLE TO THE FLOOR BOX. BOX SHALL INCLUDE A DUPLEX RECEPTACLE. EQUIPMENT SHALL BE LEGRAND HT2102-WH-V1 OR EQUAL

A/V CONNECTION FOR WALL MOUNTED FLAT PANEL DISPLAY. PROVIDE NETWORK DATA CABLE AND HDMI CABLE TO THE

FLOOR BOX. BOX SHALL INCLUDE A DUPLEX RECEPTACLE. EQUIPMENT SHALL BE LEGRAND HT2102-WH-V1 OR EQUAL

PROVIDE DATA CABLING TO MODULAR OFFICE FURNITURE. SHALL INCLUDE WALL JUNCTION BOX OR FLOOR BOX,

INSTALLATION. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

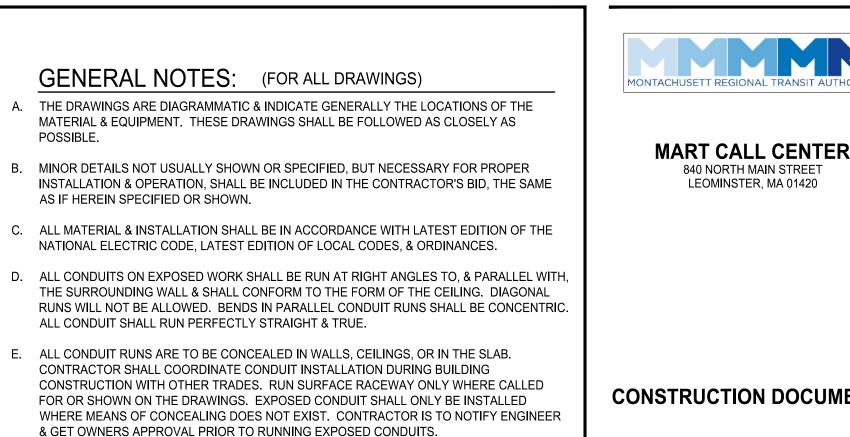
FLOOR—(J)

CONDUIT TO ACCESSIBLE SPACE. 'DATA-X' INDICATES NUMBER OF CABLES AT THIS LOCATION, UNLESS OTHERWISE NOTED, ROUTE DATA CABLES THROUGH THE FURNITURE & TERMINATE AT BOTH ENDS. COORDINATE DATA WIRING WITH

WIRELESS ACCESS POINT, CEILING MOUNTED. PROVIDE DATA CONNECTION & ALL REQUIRED WIRING FOR COMPLETE

SECURITY & ACCESS CONTROL (SYSTEMS) CCTV CAMERA, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX, MOUNTING HARDWARE, & ALL WIRING AS REQUIRED BY SECURITY SYSTEM MANUFACTURER. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. CARD READER, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & ALL WIRING AS REQUIRED BY SECURITY SYSTEM MANUFACTURER. DOOR RELEASE CONNECTION TO DOOR HARDWARE, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK & ALL WIRING AS REQUIRED BY SECURITY SYSTEM MANUFACTURER. KEYPAD STATION, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & ALL WIRING AS REQUIRED BY SECURITY SYSTEM MANUFACTURER. WINDOW CONTACT, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK & ALL WIRING AS REQUIRED BY SECURITY SYSTEM MANUFACTURER. DOOR CONTACT, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK & ALL WIRING AS REQUIRED BY SECURITY SYSTEM MANUFACTURER. MOTION SENSOR, SURFACE MOUNTED, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK & ALL WIRING AS REQUIRED BY SECURITY SYSTEM MANUFACTURER. DOOR BELL (BUZZER/RELEASE), VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK & ALL WIRING AS REQUIRED BY SECURITY SYSTEM MANUFACTURER. DURESS ALERT ACTUATOR, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK & ALL WIRING AS REQUIRED BY SECURITY SYSTEM MANUFACTURER. INTERCOM STATION. ELECTRIC STRIKE, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK & ALL WIRING AS REQUIRED BY SECURITY SYSTEM MANUFACTURER. POWER ONE-LINE POWER TRANSFORMER, DELTA PRIMARY, WYE SECONDARY OR AS INDICATED. PROVIDE ALL REQUIRED GROUNDING. $\rightarrow \cap \cap$ MOLDED CASE CIRCUIT BREAKER. AF INDICATES FRAME SIZE, AT INDICATES TRIP SETTING DRAWOUT TYPE CIRCUIT BREAKER. AF INDICATES FRAME SIZE, AT INDICATES TRIP SETTING DISCONNECT SWITCH & FUSIBLE SWITCH. XXAS INDICATES SWITCH AMPERE SIZE XXAF INDICATES FUSE AMPERE SIZE FUSE, XX A INDICATES FUSE SIZE IN AMPERES. 225 MLO PANELBOARD TRANSFER SWITCH. GROUND FAULT PROTECTION. SURGE PROTECTION. POWER QUALITY METER. DIGITAL VOLT METER.

AVAILABLE FAULT CURRENT TAG (AMPS)



F. INTERIOR RECEPTACLE & LIGHT FIXTURE BRANCH CIRCUITS SHALL BE IN EMT CONDUIT. A MAXIMUM OF (3) CIRCUITS CAN BE GROUPED TOGETHER IN A HOMERUN CONDUIT. EACH

CIRCUIT SHALL HAVE SEPARATE NEUTRAL, GROUPING OF NEUTRALS SHALL NOT BE

G. COORDINATE ALL LUMINAIRE & CEILING MOUNTED EQUIPMENT LOCATIONS & MOUNTING

PENETRATIONS THROUGH FIRE & SMOKE WALLS USING UL APPROVED SEALANT &

VERIFIED WITH OWNER'S FURNITURE LOCATIONS PRIOR TO CONSTRUCTION. NO EXTRA

ONLY WHERE INDICATED ON THE PLANS. IF CONTRACTOR INTENDS TO UTILIZE SURFACE RACEWAY IN AREAS OTHER THOSE INDICATED ON PLANS, PRIOR APPROVAL IS REQUIRED

K. CONTRACTOR MAY REUSE EXISTING CONCEALED CONDUIT UNLESS OTHERWISE NOTED ON

PANELBOARDS, JUNCTION BOXES, WALL SWITCHES, & DISCONNECT SWITCHES. LABELS

SHALL BE PHENALIC TYPE WITH BLACK BACKGROUND & WHITE ENGRAVED LETTERING.

COMPENSATION WILL BE GIVEN FOR FAILURE TO VERIFY EXACT LOCATION PRIOR TO

HARDWARE WITH ARCHITECTURAL CEILING PLANS PRIOR TO CONSTRUCTION.

H. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED COSTS FOR SEALING ALL

I. ALL COMMUNICATIONS OUTLET LOCATIONS ARE DIAGRAMMATIC & MUST BE FIELD

J. UNLESS OTHERWISE NOTED, PROVIDE ALL NEW RACEWAYS. USE SURFACE RACEWAY

L. ALL RECEWAYS CROSSING BUILDING EXPANSION JOINTS SHALL BE EQUIPPED WITH

M. CONTRACTOR SHALL PROVIDE INFORMATION LABELS ON ALL RECEPTACLES,

AUDIO NOTIFICATION APPLIANCE CIRCUIT

EXISTING EQUIPMENT SHALL REMAIN IN PLACE

NIGHTLIGHT (TYPICAL FOR LIGHTING, 'ON' ALL THE TIME)

OVER COUNTER (INSTALL 12" ABOVE COUNTER HEIGHT)

UNDER COUNTER (INSTALL 18" ABOVE FINISHED FLOOR)

INDICATES DEVICE SHALL HAVE WIRE GUARD PROTECTION

INDICATES WEATHERPROOF DEVICE OR EQUIPMENT

A. UNLESS OTHERWISE NOTED, MINIMUM HOMERUN (HOMERUN SHALL BE CONSIDERED TOTAL LENGTH FROM SOURCE TO LAST DEVICE ON THE CIRCUIT) CONDUCTORS FOR

REDUCE CONDUCTORS SIZE TO A MAXIMUM CONDUCTOR SIZE THAT THE LOAD

INCREASE RACEWAY SIZE AS NEEDED PER NEC, FOR THE LARGER SIZES OF

TERMINALS CAN ACCOMMODATE, REDUCED SIZE NOT LONGER THAN ONE FOOT.

20A/1P BRANCH CIRCUITS INCLUDING LIGHTING SHALL BE AS FOLLOWS:

LABEL SHALL INDICATED CIRCUIT/FEEDER SOURCE & EQUIPMENT ID NAME.

SHALL BE IN RMC CONDUIT OR AS PERMITTED IN THE SPECIFICATIONS.

METHODS.

CONSTRUCTION.

THE PLANS.

ATS

EXPANSION FITTINGS.

ABBREVIATIONS:

ABOVE FINISHED FLOOR

ABOVE FINISHED GRADE

AMERICAN WIRE GAGE

ELECTRIC HEAT EMERGENCY

SHOP EQUIPMENT

KITCHEN EQUIPMENT

KILOVOLT-AMPERES

MAIN CIRCUIT BREAKER MAIN LUGS ONLY

SIGNALING LINE CIRCUIT

VARIABLE FREQUENCY DRIVE

BRANCH CIRCUIT WIRING NOTES:

VISUAL NOTIFICATION APPLIANCE CIRCUIT

NATIONAL ELECTRICAL CODE

LARGEST MOTOR

HORSEPOWER

KILOWATT

AUTOMATIC TRANSFER SWITCH

FROM ENGINEER & OWNER.

ACCEPTABLE. EACH CIRCUIT SHALL ALSO HAVE A GROUND WIRE SIZED PER NEC. USING

CONDUIT, OR MC CABLE AS GROUND PATH SHALL NOT BE ACCEPTABLE. CABLE MUST BE

SUPPORTED PER NEC, GROUPING OF GROUND WIRES [(1) GROUND PER (3) CIRCUITS] IS

ACCEPTABLE. MAXIMUM 6' LENGTH OF MC CABLE ALLOWED FOR A WHIP CONNECTION TO

LUMINAIRE ONLY. EXTERIOR (OUTDOOR) RECEPTACLE & LIGHT FIXTURE BRANCH CIRCUITS



CONSTRUCTION DOCUMENTS



Landscape Architecture, P.C.

REMOVAL (TYPICAL FOR ALL DEVICES):

TYPICAL POWER & SYSTEMS DEVICE SCHEDULED FOR REMOVAL. DISCONNECT & REMOVE ALL ASSOCIATED ELECTRICAL WORK AS INDICATED ON CONTRACT DOCUMENTS. REINSTALL AS REQUIRED

TYPICAL LUMINAIRE SCHEDULED FOR REMOVAL. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION.

1-100FT - #12 AWG

101-150FT - #10 AWG

• 151-250FT - #8 AWG

 251-400FT - #6 AWG. 401 & LONGER - #4 AWG.

CONDUCTORS.

NOT ALL DEVICES SCHEDULED FOR REMOVAL ARE SHOWN ON THIS SCHEDULE. ALL DEVICES TO BE REMOVED ARE MARKED WITH THE SAME LINETYPE & LINE WEIGHT AS

SYMBOLS ABOVE. REFER TO DEMOLITION PLANS FOR ADDITIONAL INFORMATION.

EXISTING TO REMAIN (TYPICAL FOR ALL DEVICES):

TYPICAL POWER & SYSTEMS DEVICE EXISTING TO REMAIN IN PLACE. EXISTING LUMINAIRE SCHEDULED TO REMAIN IN PLACE. REFER TO

> NOT ALL EXISTING DEVICES SCHEDULED TO REMAIN ARE SHOWN ON THIS SCHEDULE. ALL DEVICES SCHEDULED TO REMAIN ARE MARKED WITH THE SAME LINETYPE & LINE WEIGHT

AS SYMBOLS ABOVE. REFER TO FLOOR PLAN DRAWINGS FOR ADDITIONAL INFORMATION.

LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION.

GENERAL SYMBOLS NOTE:

THIS SYMBOLS & ABBREVIATIONS SCHEDULE IS FOR THE ELECTRICAL CONTRACTOR REFERENCE ONLY. NOT ALL SYMBOLS OR ABBREVIATIONS MAY APPLY TO THIS PARTICULAR PROJECT. ANY ADDITIONS OR OMMISSIONS FROM THIS SCHEDULE DOES NOT IMPLY

INCLUSION AND / OR EXCLUSION OF ANY PARTICULAR ITEM FROM THE PROJECT.

SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWIN DATE 10-01-2021 PROJ. No. 610101

NOTE:
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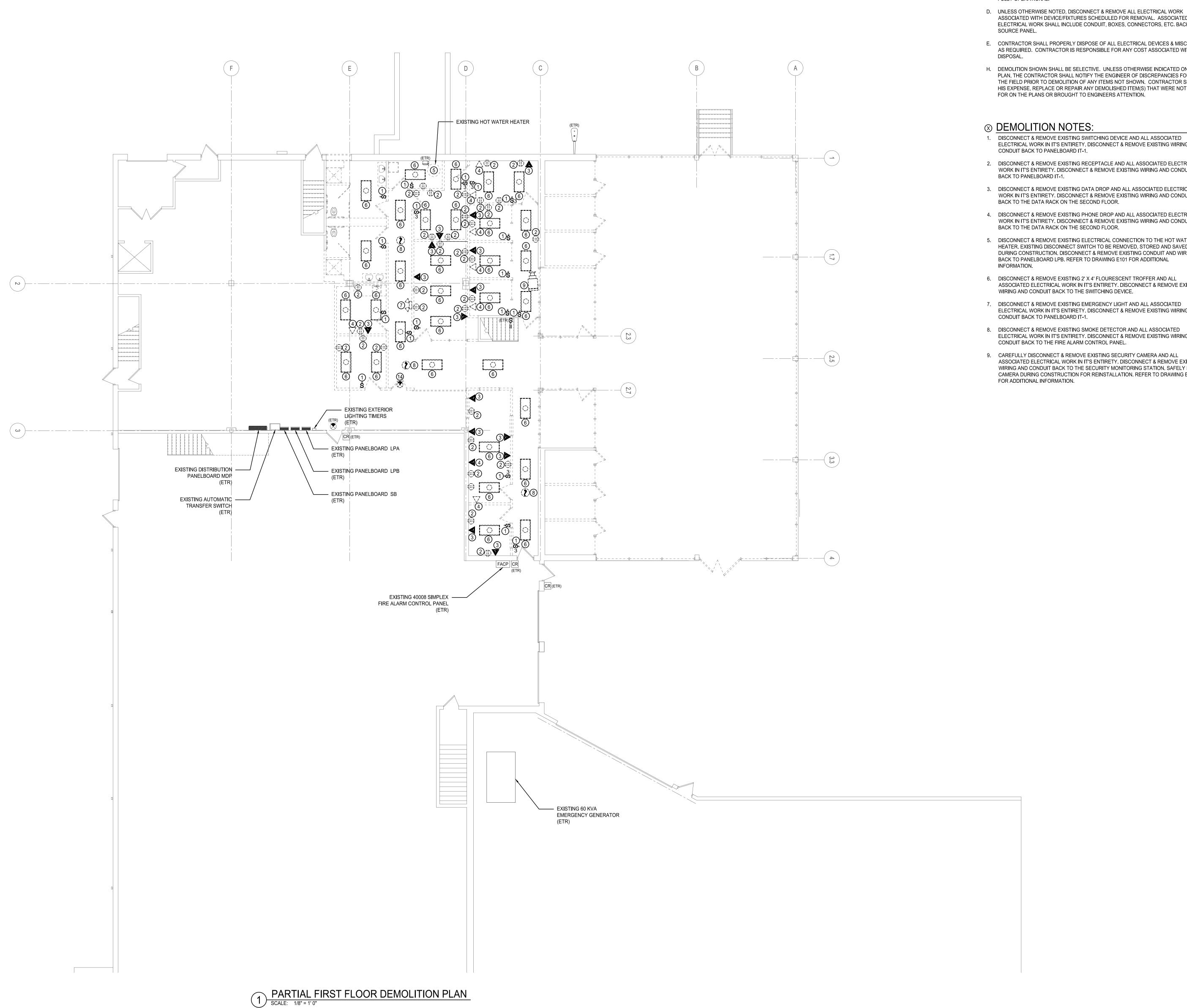
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REVISIONS

SYMBOLS, ABBREVIATIONS

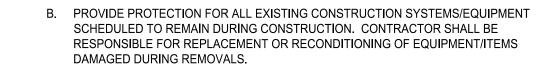
& NOTES

DWG. No.





A. MAINTAIN INTEGRITY OF EXISTING CIRCUIT WIRING PRESENTLY INSTALLED & SERVING EQUIPMENT OUTSIDE THE WORK AREA. VERIFY ROUTE OF EACH FEEDER & BRANCH CIRCUIT SCHEDULED FOR REMOVAL.



- C. FIRE ALARM & SECURITY SYSTEMS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. PROVIDE TEMPORARY WIRING AS REQUIRED TO MAINTAIN FIRE ALARM SYSTEM DETECTION/NOTIFICATION THROUGHOUT CONSTRUCTION PHASE & OPERATION OF SECURITY SYSTEM. NOTIFY OWNER OF AREAS TO BE SHUTDOWN WHILE WORK IS BEING PERFORMED. FIRE ALARM & SECURITY SYSTEMS SHALL BE FULLY OPERATIONAL AT END OF EACH WORK DAY. CONTRACTOR SHALL NOT LEAVE ANY AREAS WITHOUT FIRE ALARM SYSTEM BEING FULLY FUNCTIONAL & SECURITY SYSTEM FULLY OPERATIONAL.
- D. UNLESS OTHERWISE NOTED, DISCONNECT & REMOVE ALL ELECTRICAL WORK ASSOCIATED WITH DEVICE/FIXTURES SCHEDULED FOR REMOVAL. ASSOCIATED ELECTRICAL WORK SHALL INCLUDE CONDUIT, BOXES, CONNECTORS, ETC. BACK TO
- E. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL ELECTRICAL DEVICES & MISC. ITEMS AS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR ANY COST ASSOCIATED WITH
- H. DEMOLITION SHOWN SHALL BE SELECTIVE. UNLESS OTHERWISE INDICATED ON THE PLAN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF DISCREPANCIES FOUND IN THE FIELD PRIOR TO DEMOLITION OF ANY ITEMS NOT SHOWN. CONTRACTOR SHALL, AT HIS EXPENSE, REPLACE OR REPAIR ANY DEMOLISHED ITEM(S) THAT WERE NOT CALLED FOR ON THE PLANS OR BROUGHT TO ENGINEERS ATTENTION.

1. DISCONNECT & REMOVE EXISTING SWITCHING DEVICE AND ALL ASSOCIATED ELECTRICAL WORK IN IT'S ENTIRETY. DISCONNECT & REMOVE EXISTING WIRING AND

2. DISCONNECT & REMOVE EXISTING RECEPTACLE AND ALL ASSOCIATED ELECTRICAL WORK IN IT'S ENTIRETY. DISCONNECT & REMOVE EXISTING WIRING AND CONDUIT

- 3. DISCONNECT & REMOVE EXISTING DATA DROP AND ALL ASSOCIATED ELECTRICAL WORK IN IT'S ENTIRETY. DISCONNECT & REMOVE EXISTING WIRING AND CONDUIT BACK TO THE DATA RACK ON THE SECOND FLOOR.
- 4. DISCONNECT & REMOVE EXISTING PHONE DROP AND ALL ASSOCIATED ELECTRICAL WORK IN IT'S ENTIRETY. DISCONNECT & REMOVE EXISTING WIRING AND CONDUIT
- 5. DISCONNECT & REMOVE EXISTING ELECTRICAL CONNECTION TO THE HOT WATER HEATER. EXISTING DISCONNECT SWITCH TO BE REMOVED, STORED AND SAVED DURING CONSTRUCTION. DISCONNECT & REMOVE EXISTING CONDUIT AND WIRING BACK TO PANELBOARD LPB. REFER TO DRAWING E101 FOR ADDITIONAL
- 6. DISCONNECT & REMOVE EXISTING 2' X 4' FLOURESCENT TROFFER AND ALL ASSOCIATED ELECTRICAL WORK IN IT'S ENTIRETY. DISCONNECT & REMOVE EXISTING WIRING AND CONDUIT BACK TO THE SWITCHING DEVICE.
- ELECTRICAL WORK IN IT'S ENTIRETY. DISCONNECT & REMOVE EXISTING WIRING AND CONDUIT BACK TO PANELBOARD IT-1.
- 8. DISCONNECT & REMOVE EXISTING SMOKE DETECTOR AND ALL ASSOCIATED ELECTRICAL WORK IN IT'S ENTIRETY. DISCONNECT & REMOVE EXISTING WIRING AND
- 9. CAREFULLY DISCONNECT & REMOVE EXISTING SECURITY CAMERA AND ALL ASSOCIATED ELECTRICAL WORK IN IT'S ENTIRETY. DISCONNECT & REMOVE EXISTING WIRING AND CONDUIT BACK TO THE SECURITY MONITORING STATION. SAFELY STORE CAMERA DURING CONSTRUCTION FOR REINSTALLATION. REFER TO DRAWING E101 FOR ADDITIONAL INFORMATION.

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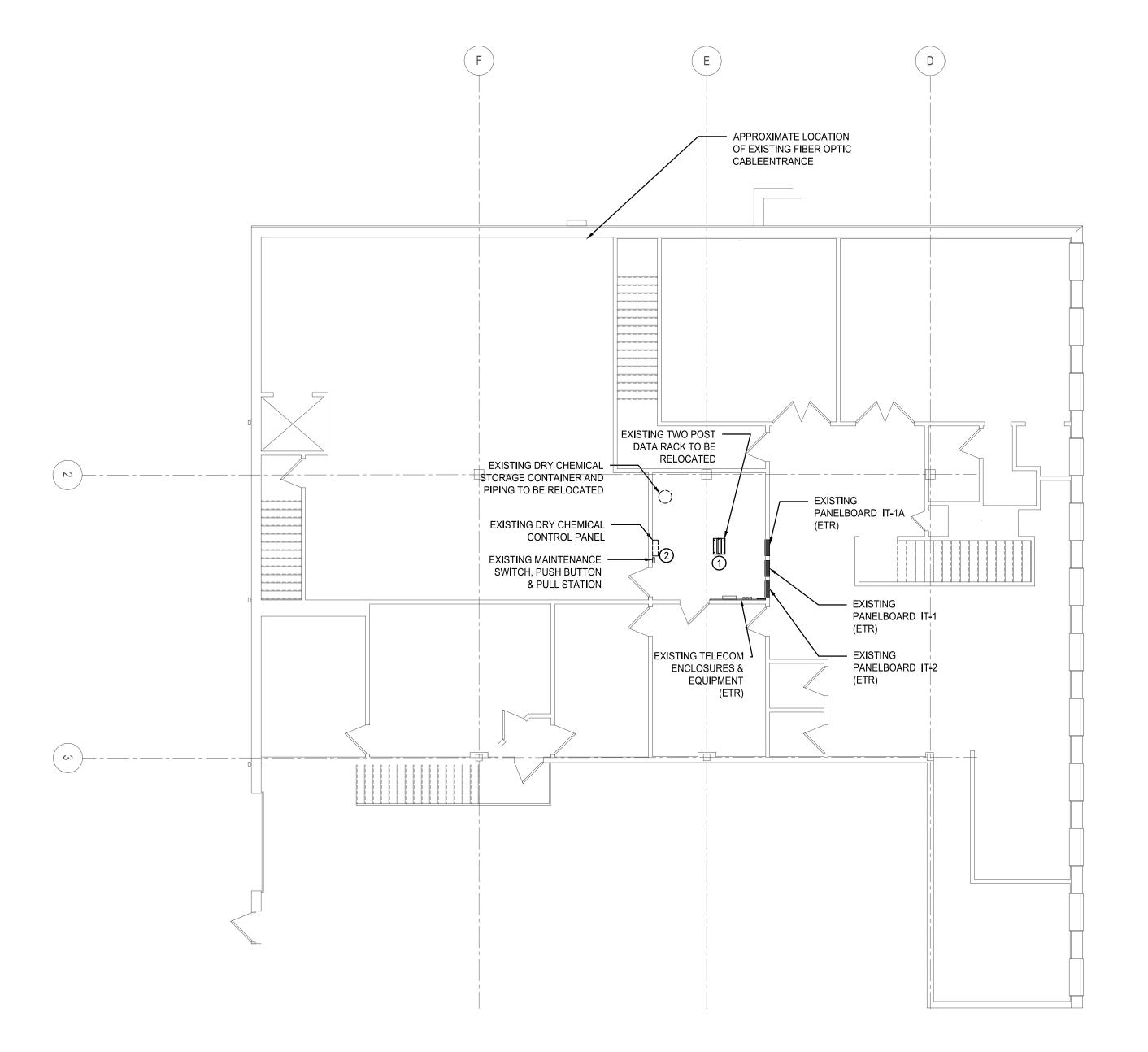
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REVISIONS

DWG. TITLE PARTIAL FIRST FLOOR **DEMOLITION PLAN**

ED101



PARTIAL SECOND FLOOR DEMOLITION PLAN

SCALE: 1/8" = 1'0"

GENERAL DEMOLITION NOTES:

- A. MAINTAIN INTEGRITY OF EXISTING CIRCUIT WIRING PRESENTLY INSTALLED & SERVING EQUIPMENT OUTSIDE THE WORK AREA. VERIFY ROUTE OF EACH FEEDER & BRANCH CIRCUIT SCHEDULED FOR REMOVAL.
- B. PROVIDE PROTECTION FOR ALL EXISTING CONSTRUCTION SYSTEMS/EQUIPMENT SCHEDULED TO REMAIN DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OR RECONDITIONING OF EQUIPMENT/ITEMS DAMAGED DURING REMOVALS.
- C. FIRE ALARM & SECURITY SYSTEMS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. PROVIDE TEMPORARY WIRING AS REQUIRED TO MAINTAIN FIRE ALARM SYSTEM DETECTION/NOTIFICATION THROUGHOUT CONSTRUCTION PHASE & OPERATION OF SECURITY SYSTEM. NOTIFY OWNER OF AREAS TO BE SHUTDOWN WHILE WORK IS BEING PERFORMED. FIRE ALARM & SECURITY SYSTEMS SHALL BE FULLY OPERATIONAL AT END OF EACH WORK DAY. CONTRACTOR SHALL NOT LEAVE ANY AREAS WITHOUT FIRE ALARM SYSTEM BEING FULLY FUNCTIONAL & SECURITY SYSTEM FULLY OPERATIONAL.
- D. UNLESS OTHERWISE NOTED, DISCONNECT & REMOVE ALL ELECTRICAL WORK ASSOCIATED WITH DEVICE/FIXTURES SCHEDULED FOR REMOVAL. ASSOCIATED ELECTRICAL WORK SHALL INCLUDE CONDUIT, BOXES, CONNECTORS, ETC. BACK TO SOURCE PANEL.
- E. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL ELECTRICAL DEVICES & MISC. ITEMS AS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR ANY COST ASSOCIATED WITH DISPOSAL.
- H. DEMOLITION SHOWN SHALL BE SELECTIVE. UNLESS OTHERWISE INDICATED ON THE PLAN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF DISCREPANCIES FOUND IN THE FIELD PRIOR TO DEMOLITION OF ANY ITEMS NOT SHOWN. CONTRACTOR SHALL, AT HIS EXPENSE, REPLACE OR REPAIR ANY DEMOLISHED ITEM(S) THAT WERE NOT CALLED FOR ON THE PLANS OR BROUGHT TO ENGINEERS ATTENTION.

⊗ DEMOLITION NOTES:

1. EXISTING TWO POST DATA RACK TO BE RELOCATED TO NEW SPACE ON THE FIRST FLOOR BY OWNER'S VENDOR. **ELECTRICAL CONTRACTOR TO DISCONNECT &** REMOVE EXISTING POWER CONNECTION TO THE DATA RACK ONCE THE OWNER HAS APPROVED THE ACTION. COIL UP EXISTING FIBER OPTIC CABLE UP FOR REUSE. REFER TO DRAWING E101 FOR ADDITIONAL INFORMATION.

2. <u>ELECTRICAL CONTRACTOR TO DISCONNECT & REMOVE EXISTING POWER</u>
CONNECTION TO THE DRY CHEMICAL CONTROL PANEL ONCE THE OWNER HAS APPROVED THE ACTION. DISCONNECT & REMOVE EXISTING WIRING AND CONDUIT IN IT'S ENTIRETY BACK TO PANELBOARD IT-1A, CKT. 17. CAREFULLY DISCONNECT & REMOVE EXISTING SENSOR AND DEVICE WIRING BACK TO THE CONTROL PANEL. CAREFULLY DISCONNECT & REMOVE EXISTING MAINTENANCE SWITCH, PUSH BUTTON AND PULL STATION DEVICES AND WIRING BACK TO THE CONTROL PANEL. CAREFULLY DISCONNECT & REMOVE THE EXISTING DRY CHEMICAL CONTROL PANEL (AEGIS 2.0 HALON). SAVE ALL DEVICES FOR REINSTALLATION IN FIRST FLOOR SPACE. REFER TO DRAWING E101 FOR ADDITIONAL INFORMATION.



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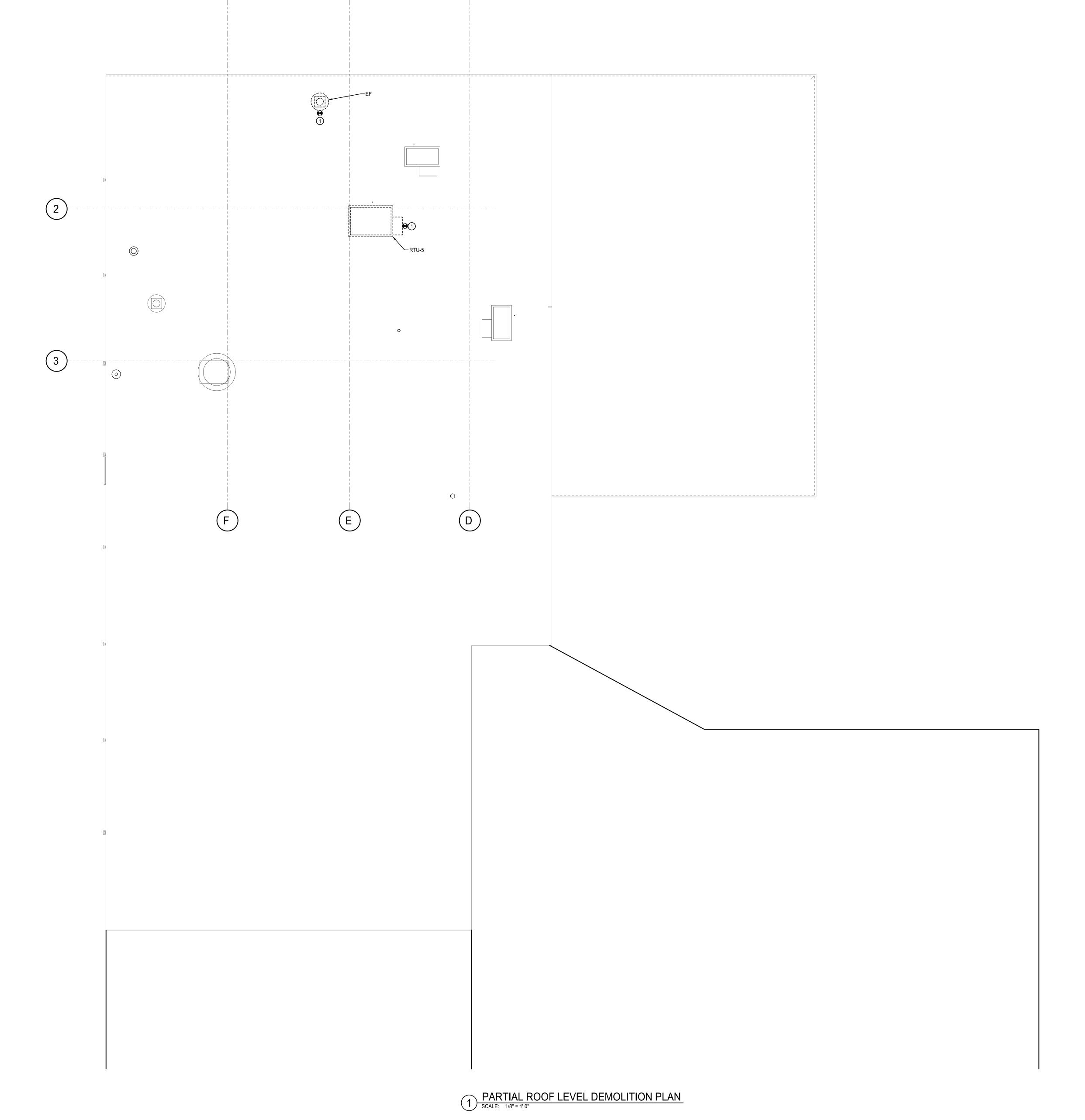
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PARTIAL SECOND FLOOR DEMOLITION PLAN

ED102



GENERAL DEMOLITION NOTES:

- A. MAINTAIN INTEGRITY OF EXISTING CIRCUIT WIRING PRESENTLY INSTALLED & SERVING EQUIPMENT OUTSIDE THE WORK AREA. VERIFY ROUTE OF EACH FEEDER & BRANCH CIRCUIT SCHEDULED FOR REMOVAL.
- B. PROVIDE PROTECTION FOR ALL EXISTING CONSTRUCTION SYSTEMS/EQUIPMENT SCHEDULED TO REMAIN DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OR RECONDITIONING OF EQUIPMENT/ITEMS DAMAGED DURING REMOVALS.
- C. FIRE ALARM & SECURITY SYSTEMS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. PROVIDE TEMPORARY WIRING AS REQUIRED TO MAINTAIN FIRE ALARM SYSTEM DETECTION/NOTIFICATION THROUGHOUT CONSTRUCTION PHASE & OPERATION OF SECURITY SYSTEM. NOTIFY OWNER OF AREAS TO BE SHUTDOWN WHILE WORK IS BEING PERFORMED. FIRE ALARM & SECURITY SYSTEMS SHALL BE FULLY OPERATIONAL AT END OF EACH WORK DAY. CONTRACTOR SHALL NOT LEAVE ANY AREAS WITHOUT FIRE ALARM SYSTEM BEING FULLY FUNCTIONAL & SECURITY SYSTEM FULLY OPERATIONAL.
- D. UNLESS OTHERWISE NOTED, DISCONNECT & REMOVE ALL ELECTRICAL WORK ASSOCIATED WITH DEVICE/FIXTURES SCHEDULED FOR REMOVAL. ASSOCIATED ELECTRICAL WORK SHALL INCLUDE CONDUIT, BOXES, CONNECTORS, ETC. BACK TO SOURCE PANEL.
- E. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL ELECTRICAL DEVICES & MISC. ITEMS AS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR ANY COST ASSOCIATED WITH DISPOSAL.
- H. DEMOLITION SHOWN SHALL BE SELECTIVE. UNLESS OTHERWISE INDICATED ON THE PLAN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF DISCREPANCIES FOUND IN THE FIELD PRIOR TO DEMOLITION OF ANY ITEMS NOT SHOWN. CONTRACTOR SHALL, AT HIS EXPENSE, REPLACE OR REPAIR ANY DEMOLISHED ITEM(S) THAT WERE NOT CALLED FOR ON THE PLANS OR BROUGHT TO ENGINEERS ATTENTION.

⊗ DEMOLITION NOTES:

1. DISCONNECT & REMOVE EXISTING ELECTRICAL CONNECTION TO HVAC EQUIPMENT. DISCONNECT & REMOVE EXISTING CONDUIT, WIRING AND ALL ASSOCIATED ELECTRICAL WORK IN IT'S ENTIRETY BACK TO PANELBOARD IT-2. DISCONNECT & REMOVE EXISTING DISCONNECT SWITCH. REFER TO DRAWING E103 FOR ADDITIONAL INFORMATION.



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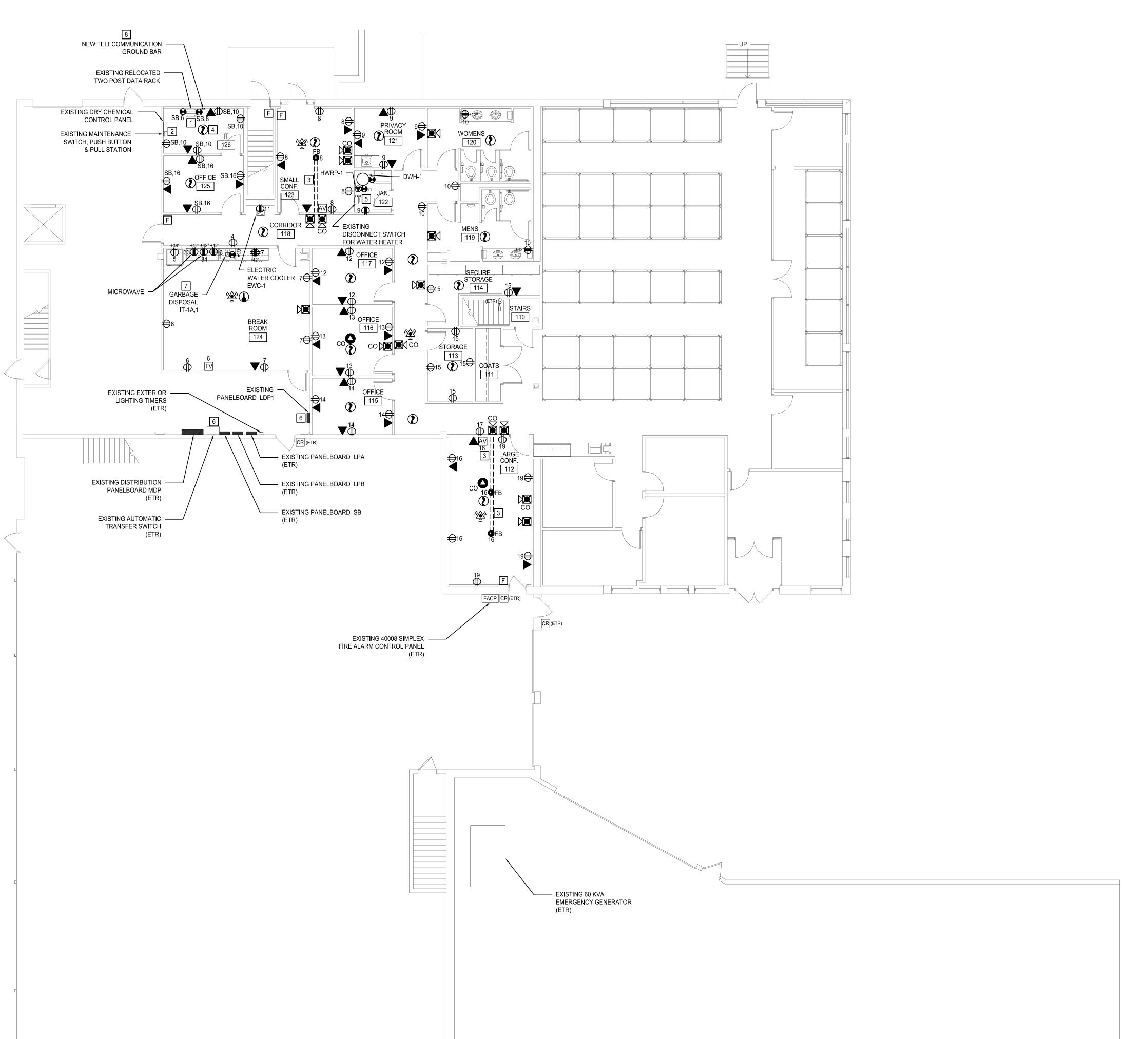
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PARTIAL ROOF LEVEL **DEMOLITION PLAN**

ED103



A. UNLESS OTHERWISE NOTED ALL DATA CABLES SHALL BE CATEGORY 6. INSTALL AT EACH LOCATION INDICATED ON THE DRAWINGS. CABLING SHALL BE TERMINATED TO RJ-45 JACK WITH FACEPLATE AT END USER LOCATION AND TERMINATED WITH RJ-45 JACK AT THE DATA RACK. CABLES ARE TO TO BE TESTED BY THE ELECTRICAL CONTRACTOR. DO NOT INSERT ANY CABLING INTO DATA EQUIPMENT UNLESS INSTRUCTED BY THE OWNER.

B. ALL POWER OUTAGES / DISRUPTIONS OF POWER MUST BE COORDINATED WITH THE OWNER TWO WEEKS PRIOR TO OUTAGE. NO OUTAGES CAN TAKE PLACE WITHOUT AUTHORIZATION OF OWNER.

- C. UNLESS OTHERWISE NOTED ALL CIRCUITS ORIGINATE FROM PANELBOARD LDP1 (STORAGE ROOM FIRST FLOOR).
- D. UNLESS OTHERWISE NOTED ALL DATA CABLES SHALL ORIGINATE FROM THE

RELOCATED DATA RACK (IT ROOM 126 - FIRST FLOOR).

E. REFER TO THE MECHANICAL EQUIPMENT CONNECTION SCHEDULE ON DRAWING E501 FOR ADDITIONAL INFORMATION.

ONCE THE TWO POST DATA RACK HAS BEEN RELOCATED BY THE OWNER'S VENDOR, PROVIDE TWO 120 VOLT, 20 AMP BRANCH CIRCUITS FOR POWER. EXTEND EXISTING FIBER OPTIC CABLE FROM SECOND FLOOR TO THIS LOCATION. IF THE CABLE IS NOT LONG ENOUGH TO REACH THE RELOCATED DATA RACK, PROVIDE NEW FIBER OPTIC

2. REINSTALL EXISTING DRY CHEMICAL CONTROL PANEL, MAINTENANCE SWITCH, PUSH BUTTON, MANUAL PULL STATION AND ALL ASSOCIATED SENSORS. PROVIDE NEW CONDUIT AND WIRING TO ALL DEVICES PER MANUFACTURER'S INSTALLATION REQUIREMENTS. PROVIDE INTERCONNECTION WIRING BETWEEN THE DRY CHEMICAL CONTROL PANEL AND THE MAIN FIRE ALARM CONTROL PANEL FOR THE BUILDING. TEST THE SYSTEM FOR PROPER OPERATION. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR.

SPLICE ENCLOSURE AND EXTEND EXISTING FIBER OPTIC CABLE. TERMINATE FIBER OPTIC CABLE AT BOTH ENDS AND TEST CABLE FOR PROPER CONNECTIVITY AND FUNCTIONALITY. COORDINATE INSTALLATION WITH OWNER BEFORE CONSTRUCTION.

- 3. SAWCUT EXISTING CONCRETE FLOOR. PROVIDE ONE 3/4" AND ONE 1" CONDUIT FROM THE WALL TO THE FLOOR BOX. PROVIDE 120 VOLT BRANCH CIRCUIT WIRING IN 3/4" CONDUIT AND DATA/ A/V CABLING IN 1" CONDUIT. PATCH EXISTING CONCRETE FLOOR TO MATCH EXISTING FLOOR. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
- 4. THE SMOKE DETECTOR IN THIS LOCATION SHALL BE WIRED TO THE DRY CHEMICAL SYSTEM. THE PRESENCE OF SMOKE WILL CAUSE THE RELEASE OF THE DRY CHEMICAL SYSTEM. THE SMOKE DETECTOR SHALL ALSO SEND ALARM SIGNAL TO THE FIRE ALARM CONTROL PANEL.
- 5. INSTALL DOMESTIC WATER HEATER DWH-1 DISCONNECT SWITCH AT LOCATION SHOWN. PROVIDE NEW CONDUIT AND WIRING AS INDICATED. PROVIDE ELECTRICAL CONNECTION TO THE UNIT. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE ON DRAWING E501 FOR ADDITIONAL INFORMATION.
- 6. EXISTING PANELBOARD INSTALLED DURING PHASE 1 OF THE PROJECT. REFER TO THE PANELBOARD SCHEDULE ON DRAWING E502 FOR ADDITIONAL INFORMATION.
- 7. PROVIDE DEDICATED 120 VOLT, 20 AMP ELECTRICAL CONNECTION TO GARBAGE DISPOSAL. PROVIDE SINGLE POLE TOGGLE SWITCH ON WALL ABOVE THE SINK TO OPERATE GARBAGE DISPOSAL. PROVIDE DISCONNECT SWITCH UNDER THE SINK.
- 8. PROVIDE NEW TELECOMMUNICATION COPPER GROUND BAR (EATON SBTMGB12K OR EQUAL) FOR THE RELOCATED DATA RACK. PROVIDE PLASTIC ISOLATORS FOR MOUNTING. FOLLOW ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS.



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PARTIAL FIRST FLOOR POWER & SYSTEMS NEW WORK PLAN

0 1" 2 GENERIC SCALE BAR

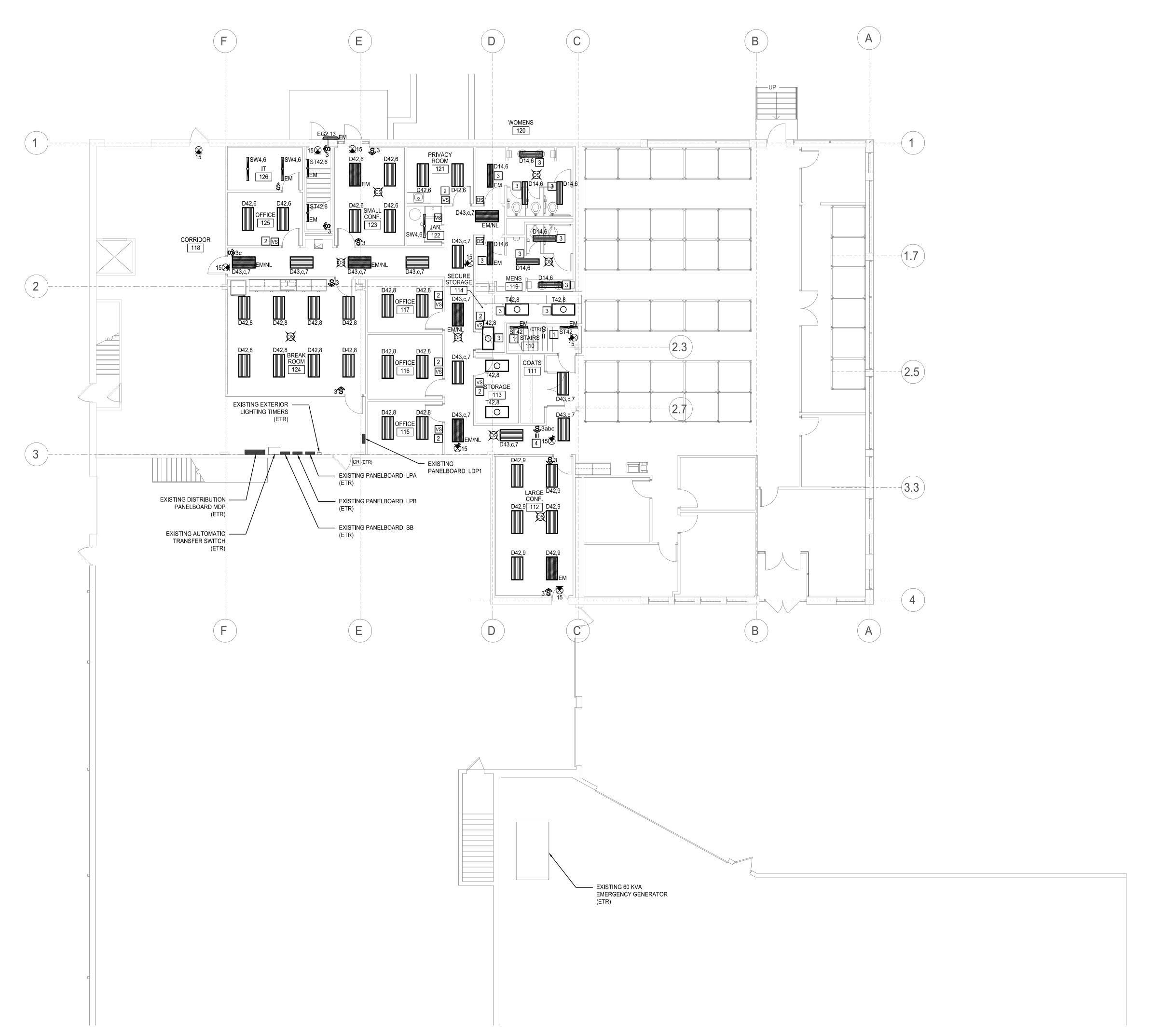
SCALE BAR SHOWN IS T IF NOT TWO INCHES C

SCALE
DWN. MJC

E101

PARTIAL FIRST FLOOR POWER & SYSTEMS NEW WORK PLAN

SCALE: 1/8" = 1' 0"



- A. REFER TO THE LUMINAIRE SCHEDULE ON DRAWING E501 FOR ADDITIONAL INFORMATION.
- B. UNLESS OTHERWISE NOTED ALL CIRCUITS ORIGINATE FROM PANELBOARD IT-1 (IT ROOM SECOND FLOOR).

MONTACHUSETT REGIONAL TRANSIT AUTHORIT

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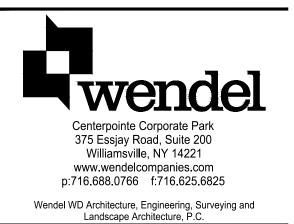
 CONNECT NEW LUMINAIRES TO EXISTING EMERGENCY BRANCH CIRCUIT FEEDING THE STAIRWELL LIGHTS.

 PROVIDE WALL MOUNTED VACANCY SENSOR / DIMMER (BASIS OF DESIGN - STEINEL DT-WLS-DIM).

 LUMINAIRES SHALL BE RECESSED IN DRYWALL CEILING. PROVIDE ALL REQUIRED MANUFACTURER'S INSTALLATION / CONVERSION HARDWARE FOR THIS TYPE OF INSTALLATION.

4. PROVIDE LIGHT SWITCH IN THE BACKBOX INSTALLED DURING PHASE 1 OF THIS PROJECT. LIGHT SWITCH SHALL CONTROL CORRIDOR LIGHTING. PROVIDE BRANCH CIRCUIT WIRING AS INDICATED ON THE DRAWINGS AND ALL LOW VOLTAGE WIRING REQUIRED BY LIGHTING SYSTEM MANUFACTURER.

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NO. REVISIONS DATE

PARTIAL FIRST FLOOR LIGHTING NEW WORK PLAN

0 1"
GENERIC SCALE BAR

GENER
SCALE BAR SHOWN IS TWO
IF NOT TWO INCHES ON T

DATE 10-01-2021

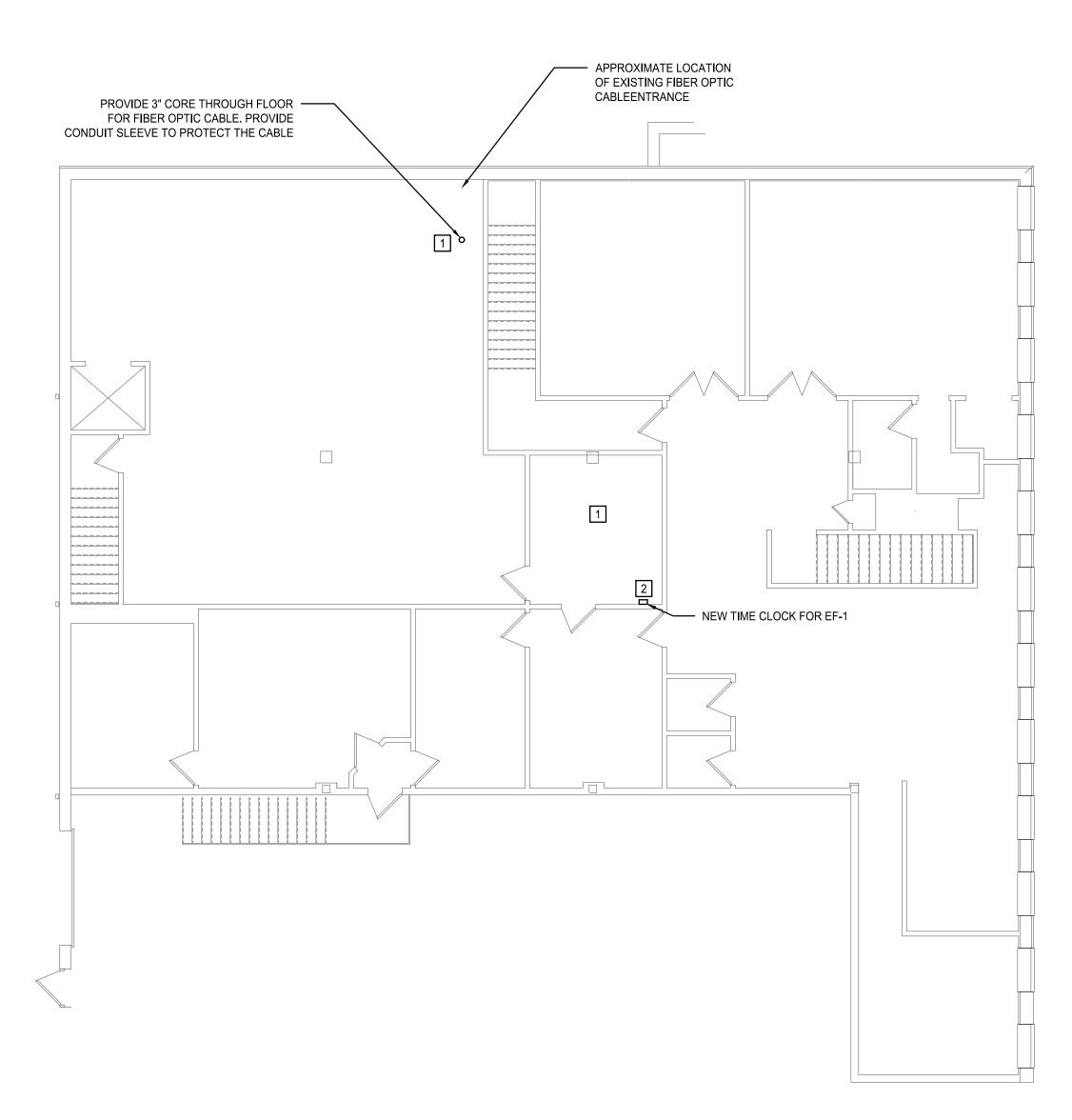
DWN. MJC CHK.

PROJ. No. 610101

E102

PARTIAL FIRST FLOOR LIGHTING NEW WORK PLAN

SCALE: 1/8" = 1' 0"



PARTIAL SECOND FLOOR NEW WORK PLAN

SCALE: 1/8" = 1'0"

FUNCTIONALITY.

A. COORDINATE NETWORK INTERRUPTIONS / OUTAGES WITH OWNER PRIOR TO CONSTRUCTION.

1. UNCOIL EXISTING FIBER OPTIC CABLE RETAINED FROM DEMOLITION. REROUTE

OR EQUAL) WITH LC ADAPTER PLATES TO EXTEND FIBER OPTIC SERVICE TO RELOCATED DATA RACK (FIRST FLOOR SERVER ROOM). COORDINATE SPLICING WITH

OWNER'S IT PRIOR TO CONSTRUCTION. PROVIDE ALL REQUIRED FIBER OPTIC TERMINATIONS AND TEST THE NEW CABLE AND SPLICES FOR PROPER SYSTEM

 PROVIDE NEW TIME CLOCK (TORK E101B OR EQUAL) AT THIS LOCATION FOR CONTROL OF EXHAUST FAN EF-1. PROVIDE NEW CONDUIT AND WIRING FROM PANELBOARD IT-2 TO TIME CLOCK. REFER TO THE MECHANICAL EQUIPMENT

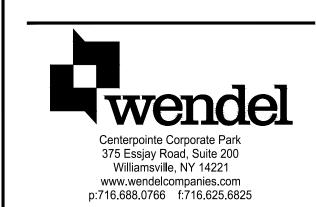
CONNECTION SCHEDULE FOR ADDITIONAL INFORMATION.

CABLE FROM SECOND FLOOR DATA ROOM TO RELOCATED DATA RACK ON THE FIRST FLOOR. PROVIDE 3" CORE THROUGH FLOOR AT LOCATION SHOWN. ROUTE CABLE THROUGH SLEEVE TO THE FIRST FLOOR . IF CABLE IS NOT LONG ENOUGH PROVIDE 16" X 16" X 5" FIBER OPTIC SPLICE ENCLOSURE (AMERICAN PRODUCTS MODEL AM-206



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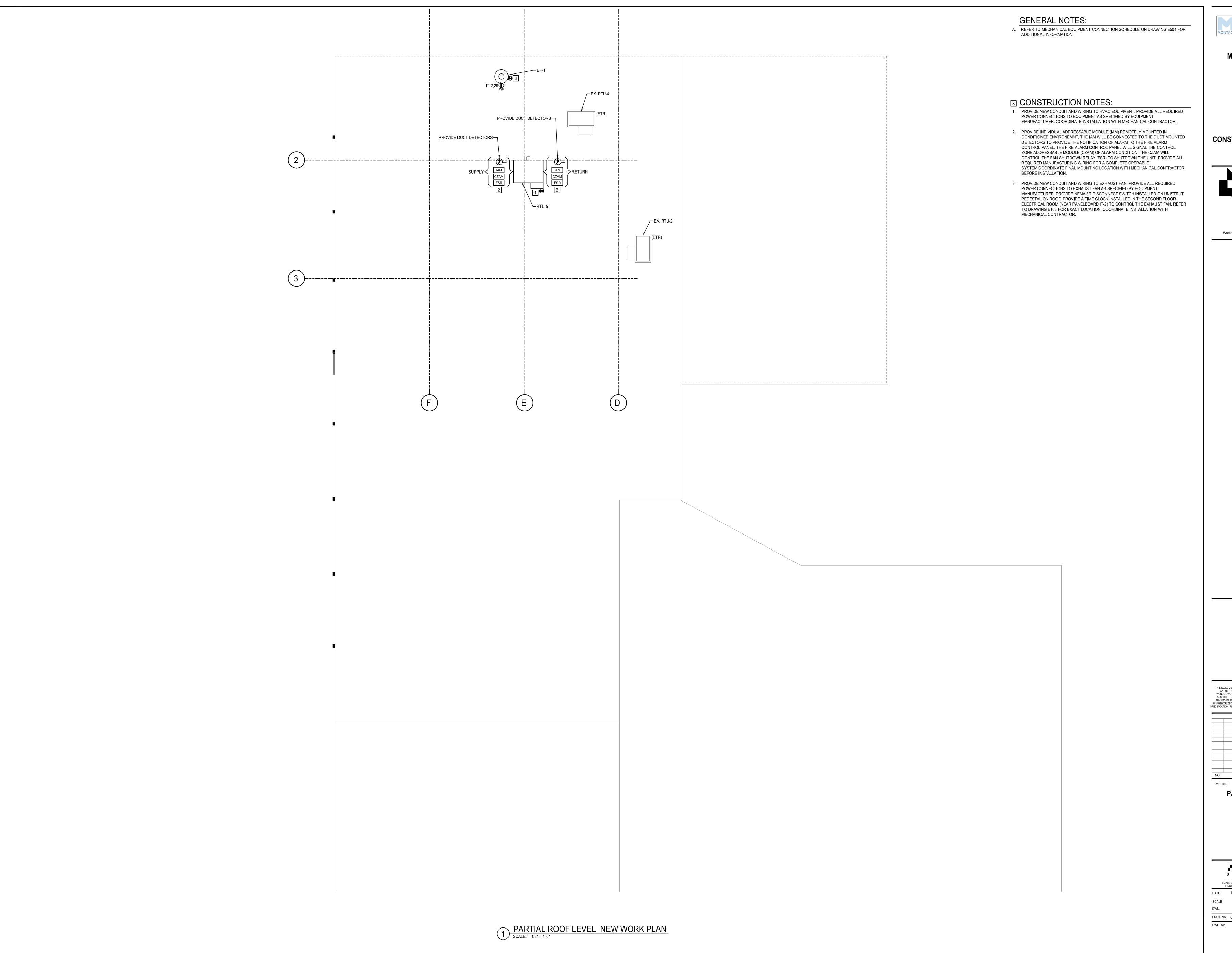
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PARTIAL SECOND FLOOR NEW WORK PLAN

SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING. IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY

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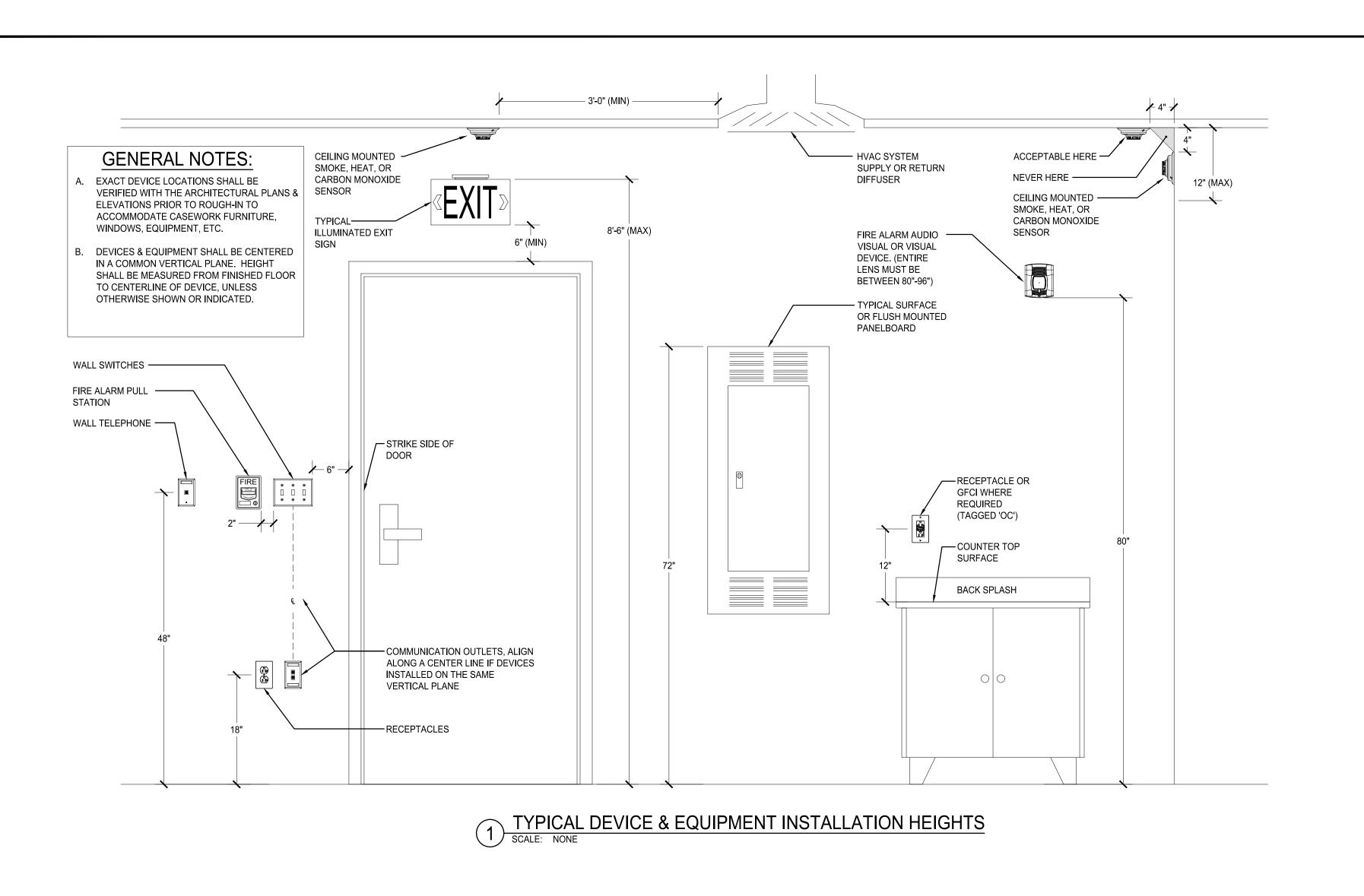
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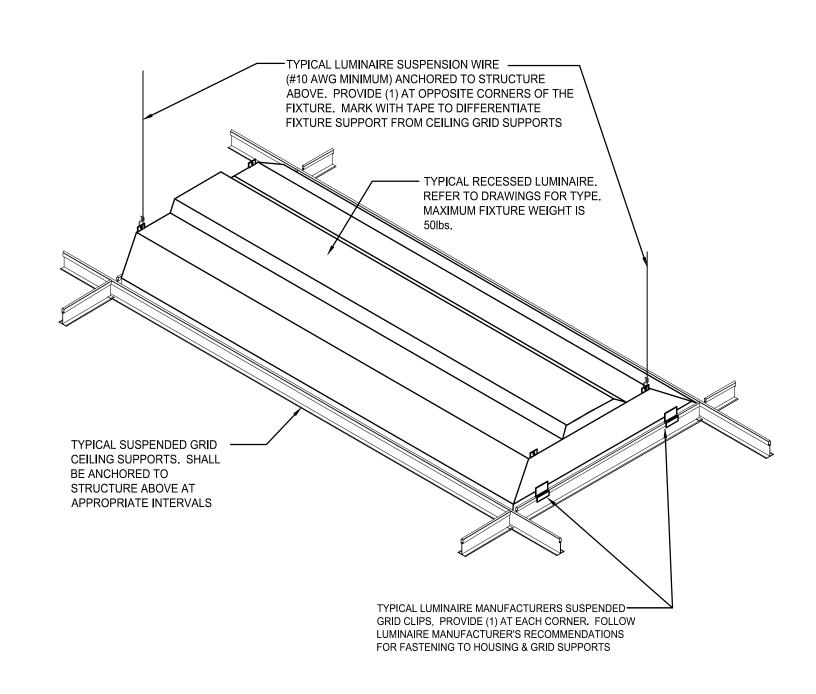
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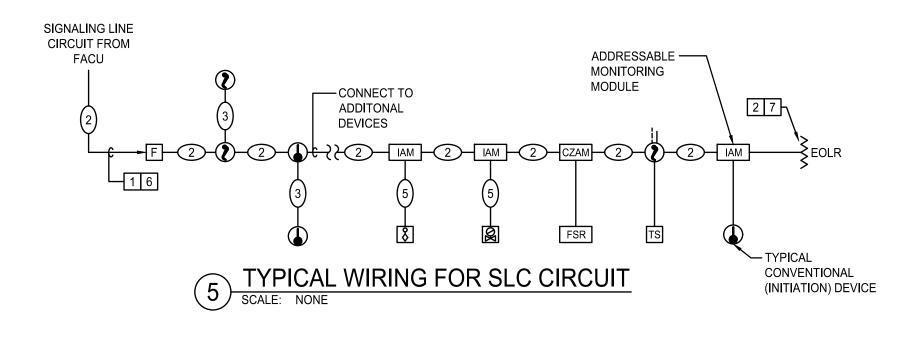
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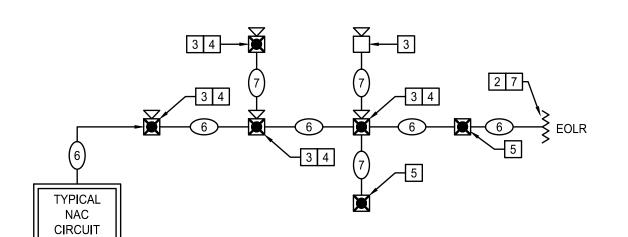
NEW WORK PLAN





4 TYPICAL TROFFER INSTALLATION DETAIL SCALE: NONE





6 TYPICAL NOTIFICATION CIRCUIT

GENERAL NOTES:

- A. DEVICES INDICATED ARE SHOWN FOR CIRCUITING INTENT ONLY, & SHALL NOT BE CONSIDERED AS ABSOLUTE QUANTITIES, TYPES, LOCATIONS ETC.
- B. PROVIDE, AT THE END OF ALL 24V SYSTEM POWER CIRCUIT(S), AN END-OF-LINE RELAY, CONNECTED TO AN IAM, SUPERVISE & MONITOR LOSS OF SYSTEM POWER.
- REGISTERS & DIFFUSERS.

C. INSTALL SMOKE DETECTOR(S) A MINIMUM OF 3'-0" AWAY FROM AIR SUPPLY OR RETURN

- D. PROVIDE ISOLATOR MODULES ON ALL SLC CIRCUITS AT EVERY 25TH DEVICE. E. UNLESS OTHERWISE NOTED, THE EXTERIOR OF ALL FIRE ALARM SYSTEM JUNCTION BOXES
- SHALL BE PAINTED RED. F. MANUAL PULL STATIONS SHALL BE INSTALLED AT 48" ABOVE FINISHED FLOOR TO THE CENTER
- OF DEVICE.
- G. UNLESS OTHERWISE NOTED, PROVIDE INTERFACE MODULES WITHIN 3FT OF DEVICE THAT IS TO BE CONTROLLED/MONITORED.
- H. THE FIRE ALARM SYSTEM PROVIDER SHALL BE RESPONSIBLE FOR PROVIDING ALL COMPONENTS NECESSARY FOR PROPER SYSTEM FUNCTION.

AIR HANDLING UNIT VFD OR CONTROLLER PROVIDE (2) #12AWG IN — 3/4" RACEWAY UPON FIRE ALARM FACU SHALL INITIATE CONNECTED TO FIRE "SHUT-DOWN" SIGNAL VIA ADDRESSABLE ALARM INPUT OF THE CONTROL MODULE TO THE UNIT HVAC UNIT CONTROLLER CONTROLLER FIRE ALARM SHUT-DOWN SIGNALING LINE ----SIGNALING LINE CIRCUIT PREVIOUS CIRCUIT TO NEXT ADDRESSABLE ADDRESSABLE DEVICE DEVICE

TYPICAL FAN SHUTDOWN RELAY WIRING DIAGRAM

SCALE: NOME

- 1. "T" TAPPING OF THE SYSTEM POWER CIRCUIT, IS NOT PERMITTED.
- 2. INSTALL AFTER LAST ALARM INITIATING DEVICE IN THE CIRCUIT.
- 3. REFER TO FIRE ALARM RISER (THIS DRAWING) FOR HORN/STROBE NAC CIRCUIT ASSIGNMENTS.

TYPICAL LIGHTING BRANCH

- 4. STROBE LIGHTS SHALL BE WIRED SO AS TO ALLOW STROBES TO REMAIN FLASHING, UPON SILENCING OF THE AUDIBLE ALARM NOTIFICATION APPLIANCES.
- 5. "T" TAPPING OF THE AUDIBLE OR VISUAL ALARM NOTIFICATION CIRCUIT WIRING, IS NOT
- 6. A SYSTEM POWER 24VDC SUPERVISED CIRCUIT SHALL BE INSTALLED ALONG WITH THE ENTIRE
- SLC PATH, FROM THE FIRST ALARM INITIATING DEVICE IN THE CIRCUIT, TO THE LAST ALARM INITIATING DEVICE IN THE CIRCUIT. SINGLE DEVICE TAKE-OFFS FROM THE MAIN PATH SHALL NOT BE REQUIRED TO CARRY THE SYSTEM POWER CIRCUIT.
- 7. PROVIDE, AT THE END OF ALL SYSTEM POWER CIRCUITS, AN END-OF-LINE RELAY & AN INDIVIDUAL ADDRESSABLE POINT MODULE (IAM), CONNECTED TO SUPERVISE & MONITOR LOSS OF SYSTEM POWER.

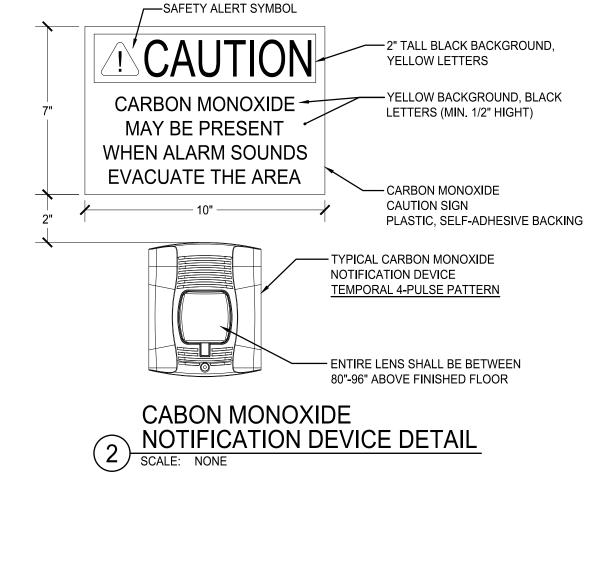
FIRE ALARM SYSTEM WIRING NOTES:

2. (1) SIGNALING LINE CIRCUIT CABLE - (2) #18 AWG

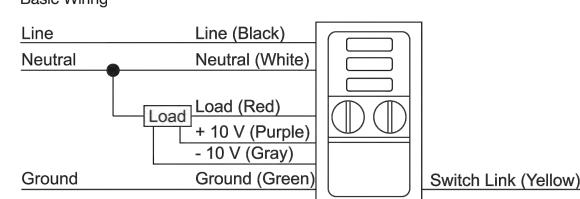
1. (2) #14 AWG IN 3/4" RACEWAY

- 3. (2) SIGNALING LINE CIRCUIT CABLES (1 IN & 1 OUT) (2) #18 AWG & (2) #18 AWG
- 4. (1) SYSTEM POWER CIRCUIT CABLE (24VDC) (2) #14 AWG
- 5. (1) NON DATA CONDUCTORS (2) #14 AWG IN FLEXIBLE METAL RACEWAY.
- 6. (1) NOTIFICATION APPLIANCE CIRCUIT CABLE (2) #14 AWG
- 7. (2) NOTIFICATION APPLIANCE CIRCUIT CABLES (1 IN & 1 OUT) (2) #14 AWG & (2) #14 AWG

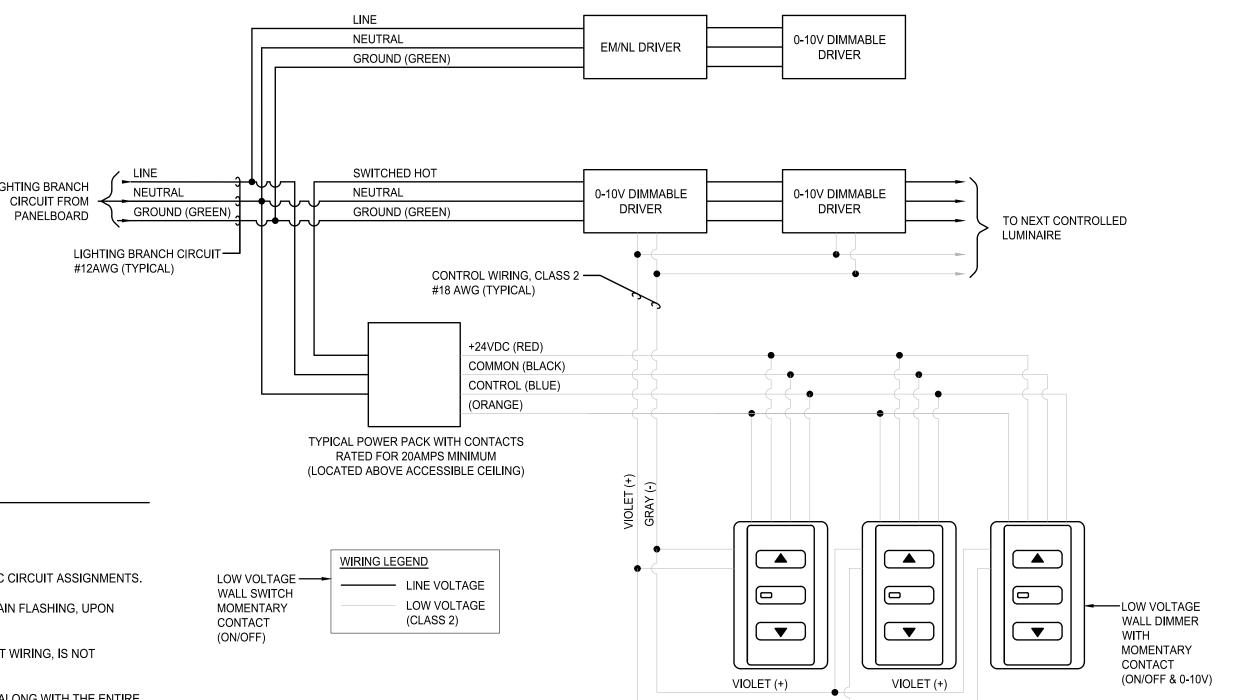
* ALL WIRING REQUIREMENTS ARE TO BE VERIFIED WITH SELECTED FIRE ALARM SYSTEM MANUFACTURER. ADDITIONAL COMPENSATION WILL NOT BE PROVIDED FOR FAILURE TO PROVIDE WIRING PER EQUIPMENT MANUFACTURER'S REQUIREMENTS.



Basic Wiring



TYPICAL OFFICE
LIGHTING CONTROL DIAGRAM
SCALE: NO SCALE



DETAIL NOTES:

A. INDICATED WIRING IS SHOWN TO INDICATE GENERAL WIRING CONCEPT, CONTRACTOR SHALL VERIFY EXACT WIRING REQUIREMENTS WITH THE MANUFACTURERS REQUIREMENTS.

TYPICAL CORRIDOR / OPEN OFFICE WALL DIMMING LIGHTING CONTROL DETAIL

SCALE: NONE

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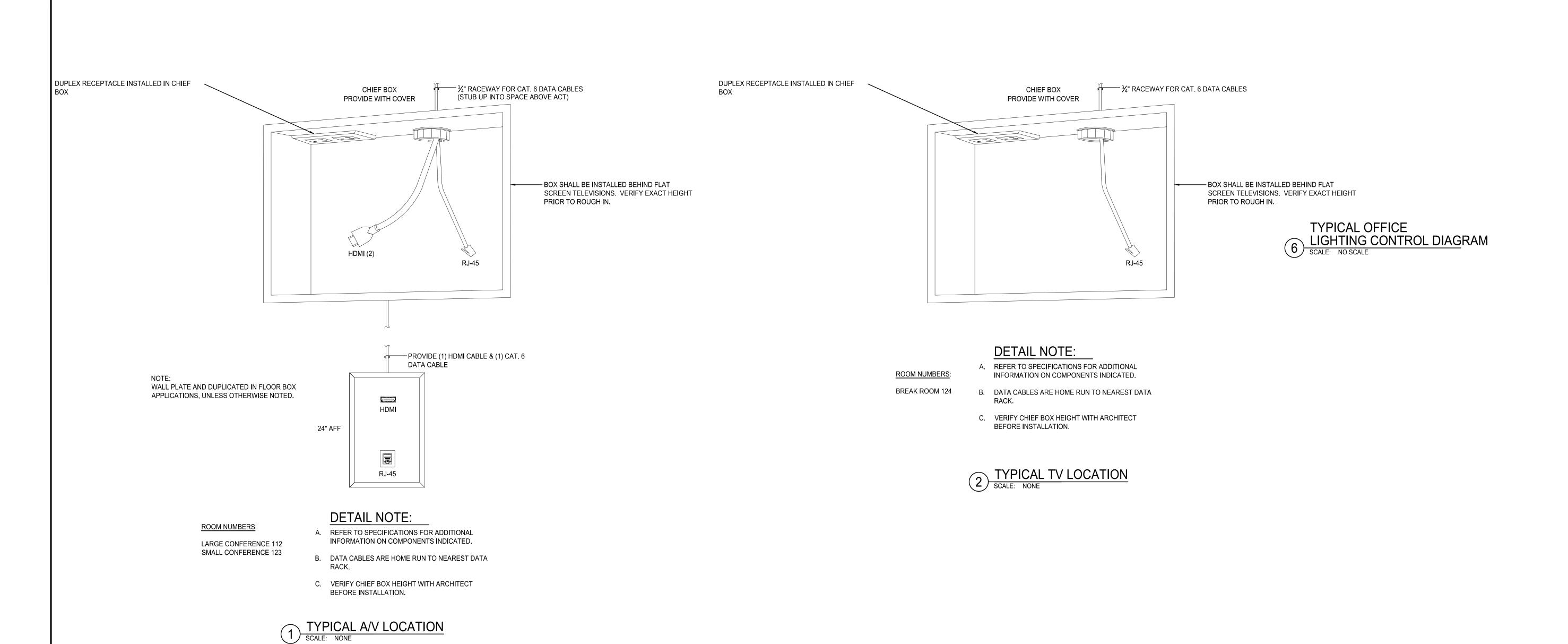


REVISIONS DWG. TITLE **ELECTRICAL DETAILS**

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GENERIC SCALE BAR SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING. IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY DATE 10-01-2021 SCALE CHK. JJR PROJ. No. 610101 DWG. No.





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DWG. TITLE

DWN. MJC CHK. JJR PROJ. No. 610101

LUMINAIRE SCHEDULE										
ГҮРЕ	DESCRIPTION	SHIELDING	DRIVER	LIGHT SOURCE	INPUT WATTS	BASIS OF DESIGN				
SW4	NARROW, 4FT, PENDANT OR SURFACE MOUNTED, LED, LENSED BARE STRIPLIGHT TYPE LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS: HOUSING SHALL CONSIST OF DIE FORMED CHANNEL THAT IS COLD ROLLED HEAVY GAGE STEEL. CHANNEL HOUSING SHALL CONTAIN LED DRIVER & PROVIDE AN ASSEMBLY FOR MOUNTING LED ARRAYS & CURVED LENSING OPTIONS. LUMINAIRE SHALL DESIGNED & MANUFACTURED TO ALLOW FOR WIDE OPTICAL DISTRIBUTION. LUMINAIRE SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS. DLC LISTED.	WIDE DISTRIBUTION CURVED ACRYLIC LENS	(1) LED DRIVER, 120-277, INTEGRAL TO LUMINAIRE.	(1) LED ARRAY DELIVERING NOMINAL 3,431 LUMENS, 3500K, MINIMUM 85 CRI.	22.1	METALUX - SNLED LENSED SERIES OR EQUAL				
T42	2X4, RECESSED, STATIC, LENSED LED TROFFER WITH FOLLOWING MINIMUM SPECIFICATIONS: COLD ROLLED STEEL HOUSING WITH FULL LENGTH STIFFENERS ADDED FOR HOUSING RIGIDITY. UNIT SHALL BE DESIGNED FOR INSTALLATION IN GRID TYPE CEILING. PROVIDE ALL REQUIRED MOUNTING HARDWARE. DOOR TRIM SHALL BE FULL SIZE, FLUSH WHITE, EXTRUDED ALUMINUM WITH SPRING LATCHES. PAINTED AFTER FABRICATION. DLC LISTED	A12 PATTERN ACRYLIC (0.125" HP)	(1) LED DRIVER, 120-277, INTEGRAL TO LUMINAIRE. PROVIDE WITH INTEGRAL EMERGENCY BATTERY BACK UP WIRED FOR A SWITCHED CIRCUIT WHERE INDICATED ON PLANS	(1) LED ARRAY DELIVERING NOMINAL 3,800 LUMENS, 3500K, MINIMUM 85 CRI.	38	METALUX - 2GR LED SERIES OR EQUAL				
D42	2X4, RECESSED, STATIC, LED ARCHITECTURAL LENSED TROFFER WITH FOLLOWING MINIMUM SPECIFICATIONS: RIGID HOUSING SHALL BE DIE FORMED OF CODE GAUGE COLD ROLLED STEEL WITH FULL LENGTH DIE-FORMED BODY STIFFENERS. STEEL DOOR SHALL BE WITH REINFORCED MITERED CORNERS. LUMINAIRE TO BE PAINTED AFTER FABRICATION.	CENTER DIFFUSER- EXTRUDED ACRYLIC	(1) LED DRIVER, 120-277, DIMMABLE 0-10V, INTEGRAL TO LUMINAIRE. PROVIDE WITH INTEGRAL EMERGENCY BATTERY BACK UP WIRED FOR A SWITCHED CIRCUIT WHERE INDICATED ON PLANS	(1) LED ARRAY DELIVERING NOMINAL 5,000 LUMENS, 3500K, MINIMUM 85 CRI.	40.7	METALUX - CRUZE 24CZ SERIES OR EQUAL				
D43	2X4, RECESSED, STATIC, LED ARCHITECTURAL LENSED TROFFER WITH FOLLOWING MINIMUM SPECIFICATIONS: RIGID HOUSING SHALL BE DIE FORMED OF CODE GAUGE COLD ROLLED STEEL WITH FULL LENGTH DIE-FORMED BODY STIFFENERS. STEEL DOOR SHALL BE WITH REINFORCED MITERED CORNERS. LUMINAIRE TO BE PAINTED AFTER FABRICATION.	CENTER DIFFUSER- EXTRUDED ACRYLIC	(1) LED DRIVER, 120-277, DIMMABLE 0-10V, INTEGRAL TO LUMINAIRE. PROVIDE WITH INTEGRAL EMERGENCY BATTERY BACK UP WIRED FOR A SWITCHED CIRCUIT WHERE INDICATED ON PLANS	(1) LED ARRAY DELIVERING NOMINAL 3,000 LUMENS, 3500K, MINIMUM 85 CRI.	21.6	METALUX - CRUZE 24CZ SERIES OR EQUAL				
D14	1X4, RECESSED, STATIC, LED ARCHITECTURAL LENSED TROFFER WITH FOLLOWING MINIMUM SPECIFICATIONS: RIGID HOUSING SHALL BE DIE FORMED OF CODE GAUGE COLD ROLLED STEEL WITH FULL LENGTH DIE-FORMED BODY STIFFENERS. STEEL DOOR SHALL BE WITH REINFORCED MITERED CORNERS. LUMINAIRE TO BE PAINTED AFTER FABRICATION.	CENTER DIFFUSER- EXTRUDED ACRYLIC	(1) LED DRIVER, 120-277, DIMMABLE 0-10V, INTEGRAL TO LUMINAIRE. PROVIDE WITH INTEGRAL EMERGENCY BATTERY BACK UP WIRED FOR A SWITCHED CIRCUIT WHERE INDICATED ON PLANS	(1) LED ARRAY DELIVERING NOMINAL 3,000 LUMENS, 3500K, MINIMUM 85 CRI.	23	METALUX - CRUZE 14CZ SERIES OR EQUAL				
5T42	4FT LONG, SURFACE WALL MOUNTED, STAIRWELL FIXTURE WITH FOLLOWING MINIMUM SPECIFICATIONS: ALUMINUM HOUSING WITH MATCHING ENDPLATES. PROVIDE WITH TAMPER RESISTANT FASTENERS, PROVIDE WITH USER CONTROLLED BI-LEVEL SWITCHING BY USING INTEGRAL ULTRASONIC OCCUPANCY SENSOR.	LINEAR RIBBED, IMPACT RESISTANT ACRYLIC LENS	(1) INTEGRAL LED DRIVER, & BATTERY BACKUP	(1) LED ARRAY	40	ILP - CAVERN SERIES OR EQUAL				
EG2	DECORATIVE EGRESS LUMINAIRE, NOMINAL 2FT LONG, WALL MOUNTED LINEAR LED LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS: EXTRUDED ALUMINUM HOUSING WITH INTEGRAL OPTICS & ELECTRICAL COMPONENTS. LUMINAIRE SHALL BE SEALED BY MEANS OF CLOSED CELL NEOPRENE GASKET BETWEEN FIXTURE & WALL AS WELL AS HOUSING & DOOR. INSTALLED ABOVE THE DOOR WHERE SHOWN TO PROVIDE EGRESS ILLUMINATION FOR OCCUPANTS. UL LISTED FOR WET LOCATION.	CLEAR EXTRUDED POLYCARBONATE	(1) INTEGRAL LED DRIVER, 277V	(1) LED ARRAY DELIVERING MINIMUM 1250 LUMENS, 4000K	13	LUMINAIRE LIGHTING CORP - AEL SERIES OR EQUAL				
EXIT	ILLUMINATED "EXIT" SIGN WITH FOLLOWING MINIMUM SPECIFICATIONS: SHALL BE LED, EDGE-LIT TYPE, INTEGRAL NICKEL CADMIUM BATTERY. HOUSING SHALL BE 1/-GAUGE STEEL. SIGN FACE SHALL BE INJECTION MOLDED ACRYLIC WITH LETTERS "EXIT" & SHEVRONS MOLDED ON SURFACE. FACES & ARROWS SHALL BE COORDINATED WITH PLANS PRIOR TO ORDERING. UNIVERSAL INSTALLATION TYPE BASE. UL 924	NA	LED DRIVER & INTEGRAL BATTERY PACK, 120- 277V	RED LED ARRAY	1.1	SURE-LITES - EUX SERIES OR EQUAL				

B. CONTRACTOR SHALL VERIFY VOLTAGE SUPPLY TO EACH LUMINAIRE PRIOR TO ORDERING THE APPROVED FIXTURE.

D. LUMINAIRES SHALL BE INDEPENDENTLY SUPPORTED IN ACCORDANCE WITH ALL APPLICABLE CODES & SPECIFICATIONS

F. ALL LED LUMINAIRES SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS.

G. CONTRACTOR SHALL VERIFY ALL MOUTING REQUIREMETNS OF EACH EXIT SIGN PRIOR TO ORDERING, AS WELL AS DIRECTIONAL REQUIREMENTS.

H. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING LUMINAIRE AND INSTALLATION REQUIREMENTS. PROVIDE ALL LSITED OPTIONS AND ACCESSORIES.

C. ALL LUMINIARES SHALL BE FURNISHED COMPLETE WITH SPECIFIED LAMPS IF APPLICABLE.

E. CONTRACTOR SHALL VERIFY CEILING TYPE FOR EACH LUMINAIRE LOCATION & ORDER ACCORDINGLY.



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REVISIONS

LUMINAIRE & MECHANICAL EQUIPMENT CONNECTION SCHEDULE

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SCALE CHK. JJR PROJ. No. 610101

⊗ <u>DEMOLITION NOTES:</u> DISCONNECT AND REMOVE EXISTING CIRCUIT BREAKER. TURN OVER TO OWNER. PROVIDE NEW CIRCUIT BREAKER AS INDICATED INTO EXISTING PANELBOARD. FIELD VERIFY EXISTING PANELBOARD AND CIRCUIT BREAKERS.

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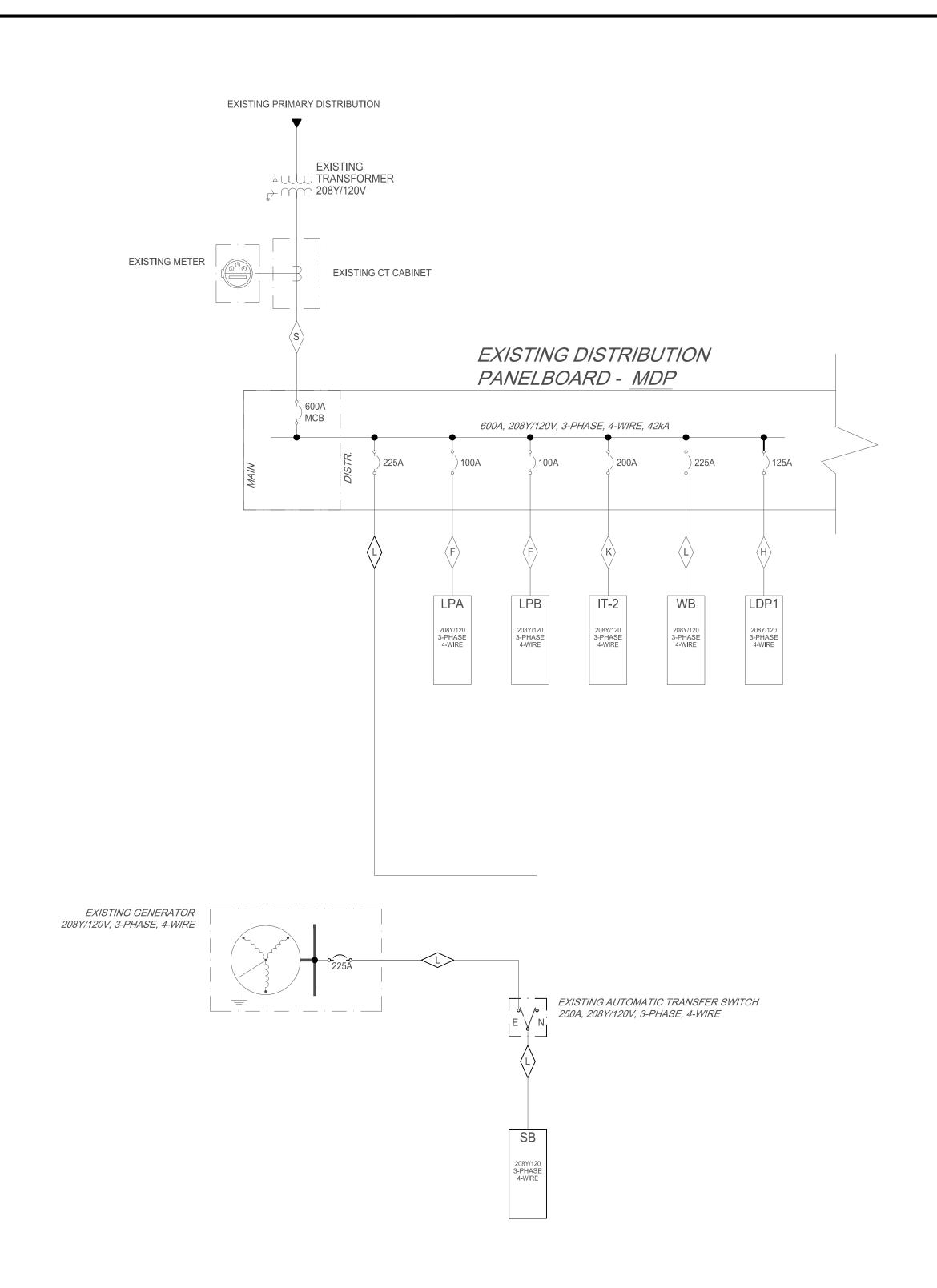
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PANELBOARD SCHEDULES

GENERIC SCALE BAR

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				FEEI		ZE SCH OPPER)	EDULE				
OVER- CURRENT DEVICE	WIRE SIZE AWG OR KCMIL		4-WIRE FEEDERS WITH EQUIPMENT GROUND			EDERS WITH NT GROUND	4-WIRE SE SYSTEM F ELECTR		4-WIRE FEEDERS W/O EQUIPMENT GROUND (UTILITY SECONDARY)		
RATING	PHASE & NEUTRAL	GND.	#>	CONDUIT SIZE	#>	CONDUIT SIZE	#>	GEC	CONDUIT SIZE	#	CONDUIT SIZE
20	12	12	А	3/4"	A1	3/4"	A2	8	3/4"	A3	3/4"
30	10	10	В	3/4"	B1	3/4"	B2	8	3/4"	В3	3/4"
40	8	10	С	3/4"	C1	3/4"	C2	8	3/4"	C3	3/4"
60	6	10	D	1"	D1	1"	D2	8	1"	D3	1"
70	4	10	E	1-1/4"	E1	1-1/4"	E2	8	1-1/4"	E3	1 1/4"
100	2	8	F	1-1/4"	F1	1-1/4"	F2	8	1-1/4"	F3	1 1/4"
110	1	6	G	1-1/2"	G1	1-1/2"	G2	6	1-1/2"	G3	1 1/2"
125	1/0	6	Н	2"	H1	2"	H2	6	2"	H3	2"
150	1/0	6	I	2"	I1	2"	I2	6	2"	I3	2"
175	2/0	6	J	2"	J1	2"	J2	4	2"	J3	2"
200	3/0	6	K	2"	K1	2"	K2	4	2"	K3	2"
225	4/0	4	L	2-1/2"	L1	2-1/2"	L2	2	2-1/2"	L3	2 1/2"
250	250	4	М	2-1/2"	M1	2-1/2"	M2	2	2-1/2"	M3	2 1/2"
300	350	4	N	3"	N1	3"	N2	2	3"	N3	3"
350	500	2	0	3"	01	3"	O2	2	3"	O3	3"
400	600	2	Р	4"	P1	3"	P2	1/0	3"	P3	3"
450	(2) 4/0	2	Q	(2) 2-1/2"	Q1	(2) 2-1/2"	Q2	1/0	(2) 2-1/2"	Q3	(2) 2-1/2"
500	(2) 250	2	R	(2) 2-1/2"	R1	(2) 2-1/2"	R2	1/0	(2) 2-1/2"	R3	(2) 2-1/2"
600	(2) 350	1	S	(2) 4"	S1	(2) 4"	S2	3/0	(2) 4"	S3	(2) 4"
700	(2) 500	1/0	Т	(2) 4"	T1	(2) 4"	T2	3/0	(2) 4"	T3	(2) 4"
800	(2) 600	1/0	U	(2) 4"	U1	(2) 4"	U2	3/0	(2) 4"	U3	(2) 4"
1000	(3) 500	2/0	V	(3) 4"	V1	(3) 4"	V2	3/0	(3) 4"	V3	(3) 4"
1200	(3) 600	3/0	W	(3) 4"	W1	(3) 4"	W2	3/0	(3) 4"	W3	(3) 4"
1600	(4) 600	4/0	Х	(4) 4"	X1	(4) 4"	X2	3/0	(4) 4"	Х3	(4) 4"
2000	(5) 600	250	Υ	(5) 4"	Y1	(5) 4"	Y2	3/0	(5) 4"	Y3	(5) 4"
2500	(6) 600	350	Z	(6) 4"	Z1	(6) 4"	Z2	3/0	(6) 4"	Z3	(6) 4"
3000	(8) 500	500	AA	(8) 4"	AA1	(8) 4"	AA2	3/0	(8) 4"	AA3	(8) 4"
4000	(10) 600	500	BB	(10) 4"	BB1	(10) 4"	BB2	3/0	(10) 4"	BB3	(10) 4"
5000	(12) 600	2-500	CC	(12) 4"	CC1	(12) 4"	CC2	3/0	(12) 4"	CC3	(12) 4"
6000	(16) 500	2-500	DD	(16) 4"	DD1	(16) 4"	DD2	3/0	(16) 4"	DD3	(16) 4"



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REVISIONS DWG. TITLE

PARTIAL SINGLE LINE DIAGRAM

GENERIC SCALE BAR

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