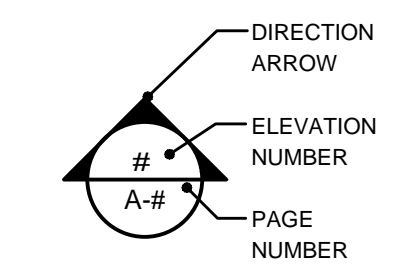
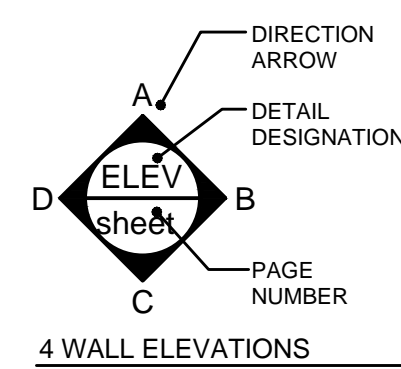


BUILDING RENOVATIONS PERRY PROTECH 1270 FLAGSHIP DRIVE PERRYSBURG, OH 43551

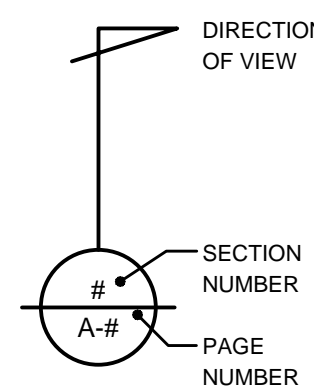


- # DOOR NUMBER
- A WINDOW DESIGNATION
- # KEYNOTE DESIGNATION
- # REVISION NUMBER
- # COLUMN LINE NUMBER OR LETTER
- EP ELECTRICAL PANEL
- DS DOWNSPOUT
- FD FLOOR DRAIN
- FCO FLOOR CLEANOUT
- G.C. GENERAL CONTRACTOR
- P.C. PLUMBING CONTRACTOR
- M.C. MECHANICAL CONTRACTOR
- E.C. ELECTRICAL CONTRACTOR
- F.P.C. FIRE PROTECTION CONTRACTOR
- A.F.F. ABOVE FINISHED FLOOR
- F.F.E. FINISHED FLOOR ELEVATION
- U.N.O. UNLESS NOTED OTHERWISE
- N.I.C. NOT IN CONTRACT
- M.O. MASONRY OPENING
- R.O. ROUGH OPENING
- P.T. PRESERVATIVE TREATED
- F.R.T. FIRE RETARDANT TREATED
- P.E.M.B. PRE-ENGINEERED METAL BUILDING

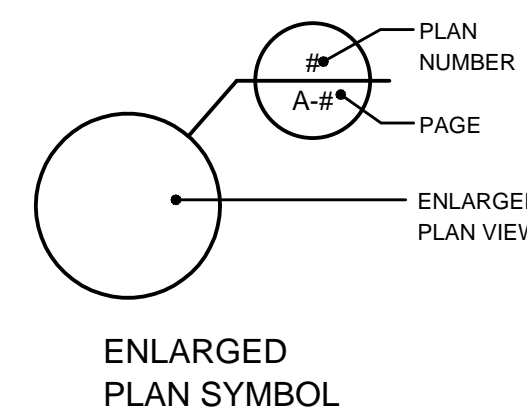
DWG. SYMBOLS & NOTATIONS



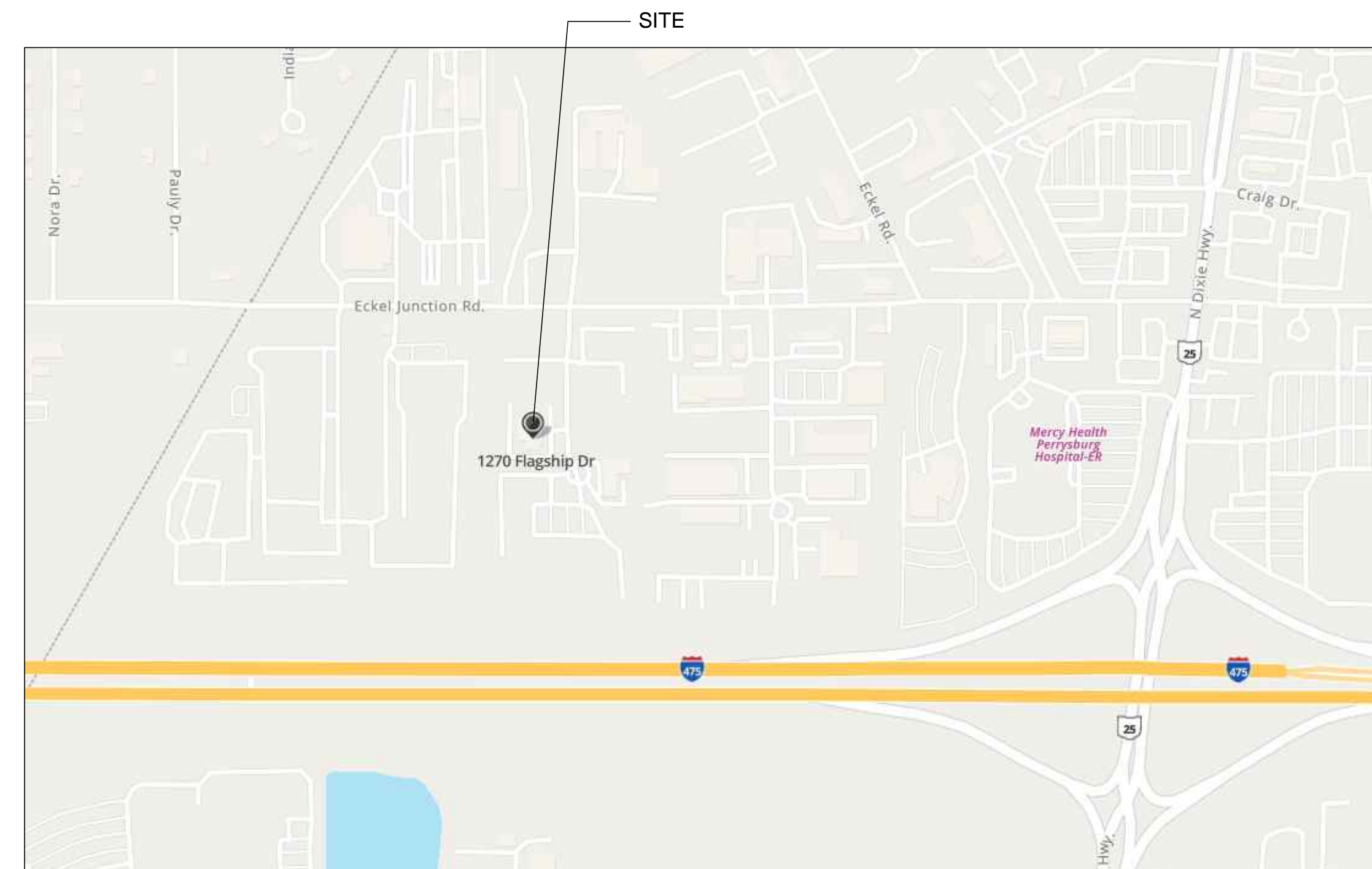
WALL ELEVATION SYMBOL



BLDG./WALL SECTION SYMBOL



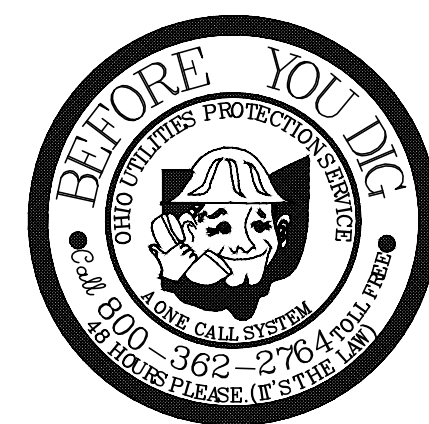
CROSS REFERENCES



PERRYSBURG, OH
SITE LOCATION MAP
NO SCALE

DRAWING INDEX

COVER	SITE LOCATION MAP
GENERAL	
G100	CODE COMPLIANCE PLAN & DATA
SITE	
C1	CIVIL GENERAL NOTES
C2	DEMOLITION & LAYOUT PLAN
C3	GRADING PLAN
C4	CIVIL & EROSION CONTROL DETAILS
STRUCTURAL	
S101	HEADER/LINTEL PLAN, FOUNDATION PLAN, DETAILS, HEADER & LINTEL SCHEDULE & CONCRETE MIX DESIGN MATRIX
DEMOLITION	
D101	DEMOLITION PLAN & EAST ELEVATION DEMO
ARCHITECTURAL	
A101	FLOOR PLAN, KEYNOTES & ACCESSORIES SCHEDULE
A111	REFLECTED CEILING PLAN, KEYNOTES & LEGEND
A201	EAST ELEVATION, BUILDING SECTIONS & DETAILS
A401	ENLARGED RECEPTION PLAN & INTERIOR ELEVATIONS
A501	CASEWORK SECTIONS
A601	DOOR SCHEDULE, DOOR TYPES & WINDOW TYPES
A602	DOOR & WINDOW DETAILS
INTERIORS	
I101	ROOM FINISH SCHEDULE, FLOORING PLAN & FINISH MATERIALS LEGEND
PLUMBING	
PD101	PLUMBING DEMOLITION PLAN
P101	PLUMBING FLOOR PLAN & KEYNOTES
P501	PLUMBING SCHEDULES, DETAILS & SPECIFICATIONS
P901	PLUMBING SPECIFICATIONS
P902	PLUMBING SPECIFICATIONS
MECHANICAL	
MD101	MECHANICAL DEMOLITION PLAN
M101	MECHANICAL FLOOR PLAN & KEYNOTES
M501	MECHANICAL PIPING PLAN & DETAILS
M601	MECHANICAL SCHEDULES
M901	MECHANICAL SPECIFICATIONS
M902	MECHANICAL SPECIFICATIONS
M903	MECHANICAL SPECIFICATIONS
ELECTRICAL	
DE101	ELECTRICAL DEMOLITION PLAN
E101	ELECTRICAL POWER / SYSTEMS PLAN
E121	ELECTRICAL LIGHTING PLAN
E501	ELECTRICAL LIGHT FIXTURE SCHEDULES, LIGHTING LEGEND, DETAILS, GENERAL NOTES
E601	ELECTRICAL LEGENDS, ONE-LINE DIAGRAM, PANEL SCHEDULES
E901	ELECTRICAL SPECIFICATIONS
FIRE PROTECTION	
FP101	FIRE PROTECTION FLOOR PLAN
FP901	FIRE PROTECTION SPECIFICATIONS
FP902	FIRE PROTECTION SPECIFICATIONS



ARCHITECT/ENGINEER

TECHNICON DESIGN GROUP, INC.
1800 N. PERRY ST., SUITE 102
OTTAWA, OHIO 45875
PHONE: (419) 523-5323
FAX: (419) 523-9441
CONTACT:
GILLIAN STECHSCHULTE, PROJECT ARCHITECT
NAME, PROJECT MANAGER

CIVIL ENGINEER

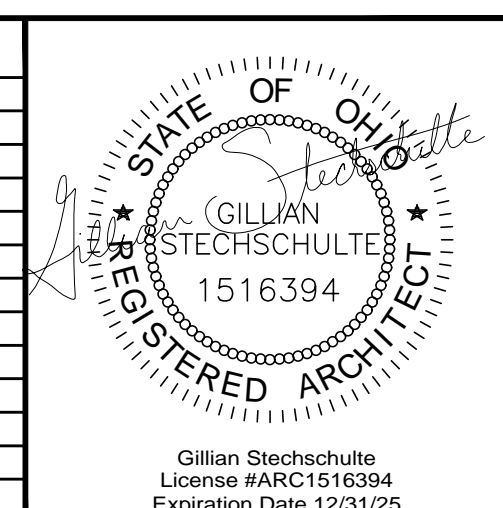
DGL CONSULTING ENGINEERS, LLC
6060 ROCKSIDE WOODS BLVD N, SUITE 317
INDEPENDENCE, OHIO 44131
PHONE: (440) 387-4113 ext. 254
CONTACT:
DANIEL P. KONSCHAK, P.E.

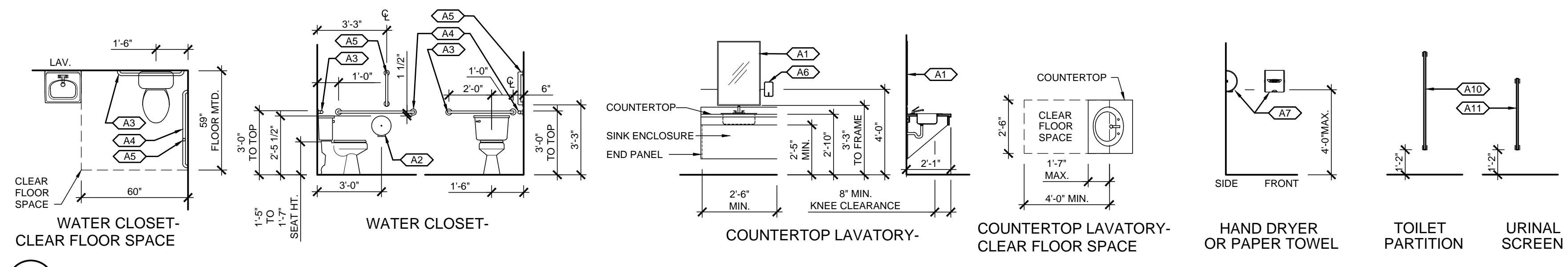
IT SHALL BE THE RESPONSIBILITY OF EACH PRIME CONTRACTOR TO THOROUGHLY REVIEW THE ENTIRE SET OF DRAWINGS AND PROJECT MANUAL (OR SPECIFICATIONS) IN ORDER TO FAMILIARIZE THEMSELVES WITH ITEMS BEING PROVIDED BY AND WORK BEING PERFORMED BY ALL OTHER TRADES IN ADDITION TO ITEMS BEING PROVIDED BY AND WORK BEING PERFORMED BY HIS/HER RESPECTIVE TRADE.
ALL CONTRACTORS SHALL COORDINATE WORK BETWEEN TRADES.



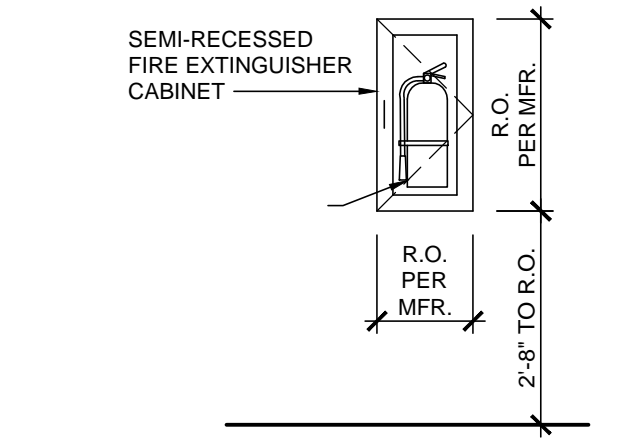
ARCHITECTURE . ENGINEERING . DESIGN
1800 N PERRY STREET, SUITE 102, OTTAWA, OH 45875 P:419.523.5323
www.technicondesigngroup.com

ISSUED DATE
11-21-23 BIDDING & PERMITS
01-09-24 PERMITS

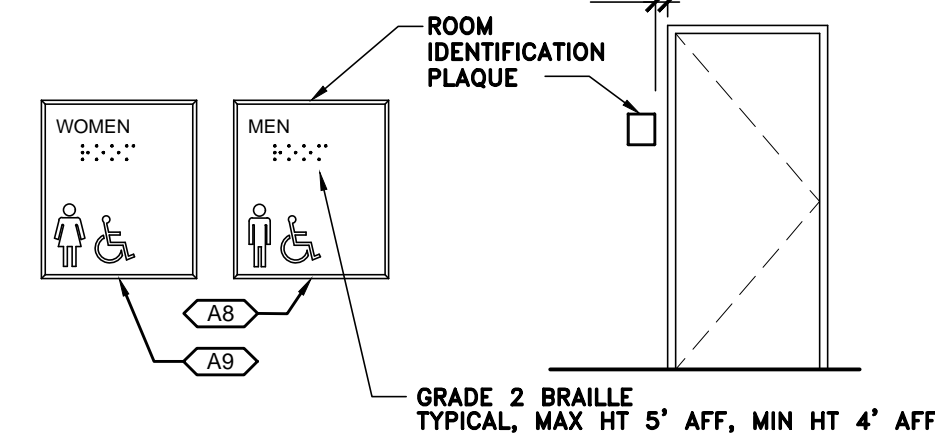




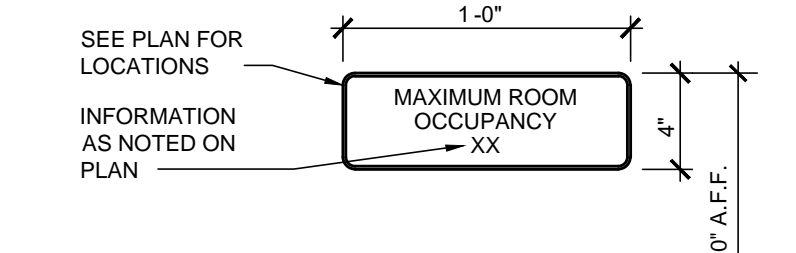
6 ACCESSIBILITY & MOUNTING DETAILS PER ICC A117.1 STANDARDS
SCALE: 1/4"=1'-0"



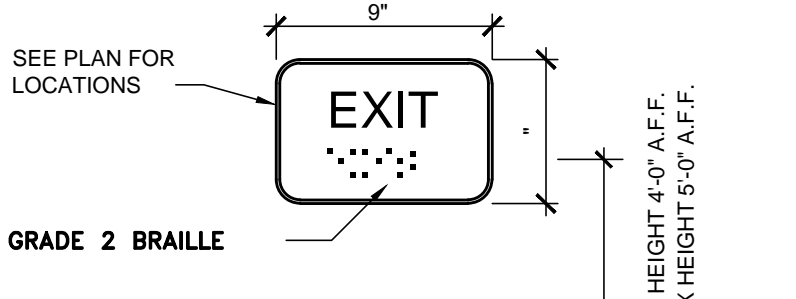
2 FIRE EXTINGUISHER DETAIL
SCALE: N.T.S.



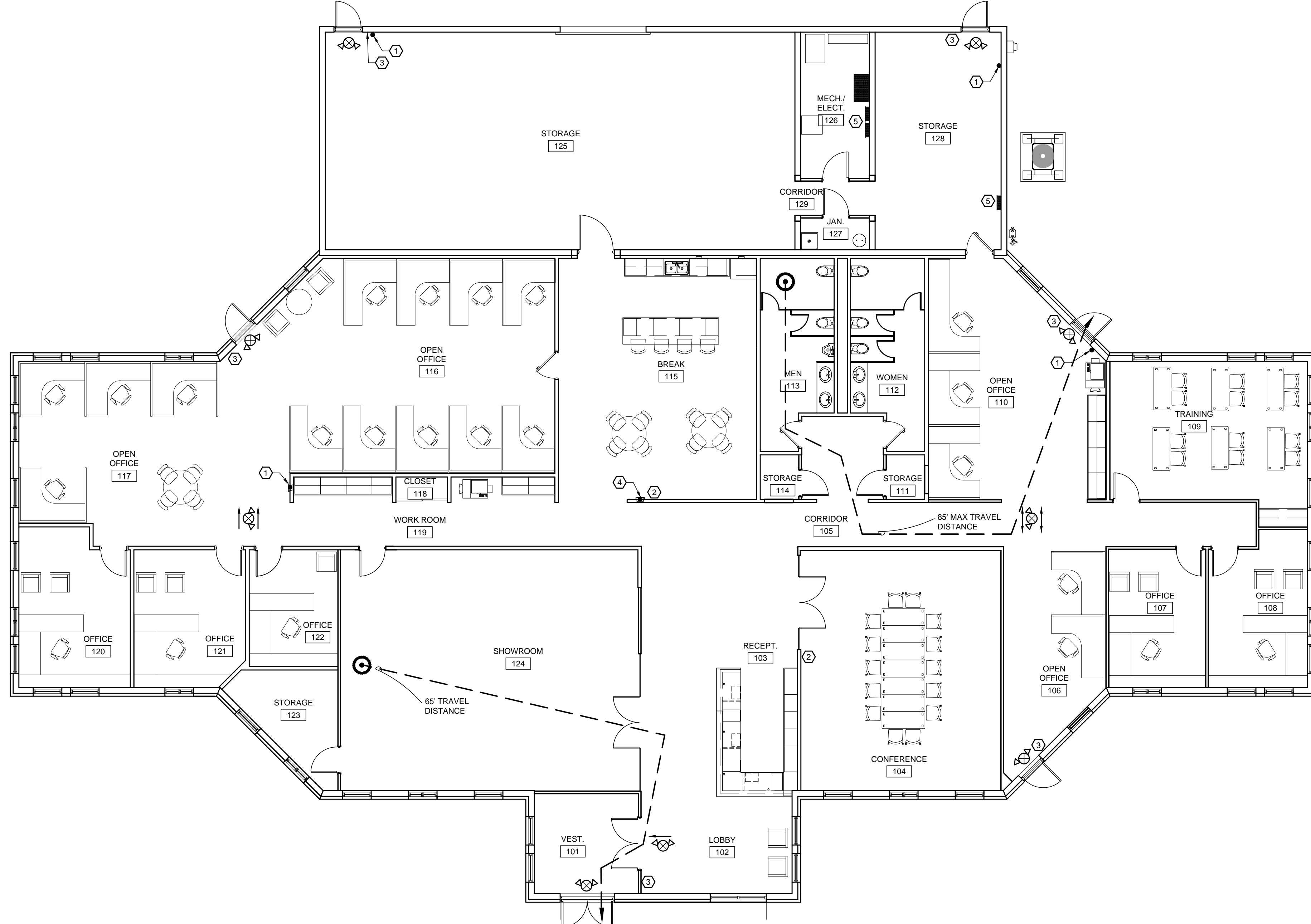
3 ROOM SIGNAGE MOUNTING DETAIL
SCALE: N.T.S.



4 OCCUPANT LOAD SIGN DETAIL
SCALE: N.T.S.



5 TACTILE EXIT SIGN DETAILS
SCALE: ###



1 CODE COMPLIANCE PLAN
SCALE: 1/8"=1'-0"

PROJECT DESCRIPTION

PROJECT DESCRIPTION:
THE PROJECT CONSISTS OF ALTERATIONS TO AN EXISTING OFFICE FACILITY. THE USE AND OCCUPANCY CLASSIFICATION WILL REMAIN UNCHANGED AND GENERAL BUILDING FUNCTIONS WILL REMAIN THE SAME. ALTERATIONS INCLUDE THE DEMOLITION OF SOME INTERIOR PARTITIONS, NEW CEILING GRID AND TILE, NEW LIGHT FIXTURES, NEW INTERIOR FINISHES, A NEW STOREFRONT ENTRANCE SYSTEM WITH CANOPY, AND PARKING LOT RESURFACING. THE BUILDING IS EQUIPPED WITH A FIRE SUPPRESSION SYSTEM WHICH WILL BE MODIFIED AS REQUIRED FOR INSTALLATION OF NEW CEILING AND PARTITIONS.

BASE BID:
SINGLE STORY BUILDING, SELECTIVE DEMOLITION OF EXISTING BUILDING COMPONENTS, EXTERIOR & INTERIOR ALTERATIONS TO THE EXISTING 1 STORY BUILDING.

EXISTING BUILDING COMPONENTS ARE: WOOD STUD FRAMING WITH MASONRY VENEER, PREFINISHED METAL ROOF AND WOOD TRUSSES.

ALTERATIONS: NEW INTERIOR WOOD STUD AND GYPSUM BOARD PARTITIONS, NEW DOORS AND FRAMES, NEW INTERIOR FINISHES, NEW PLUMBING, MECHANICAL & ELECTRICAL SYSTEMS.

ALTERNATES: SEE PROJECT MANUAL SECTION 012300, PART 4 FOR DETAILED DESCRIPTIONS.
ALTERNATE 1: NEW ROLLER SHADES @ ALL WINDOWS

APPLICABLE BUILDING CODES

BUILDING CODE	2017 OBC
PLUMBING CODE	2017 OBC
MECHANICAL CODE	2017 OMC
ELECTRICAL CODE	2017 NEC
ENERGY CODE	2017 NEC (2010)
ACCESSIBILITY	ICC A117.1 (2009)
FUEL GAS CODE	ICC 2015

GENERAL CODE COMPLIANCE NOTES

- THE BUILDING IS EQUIPPED THROUGHOUT WITH AN EXISTING AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13, THE SYSTEM WILL BE MODIFIED AS NEEDED TO ACCOMMODATE NEW CEILING AND PARTITIONS. SEALED DRAWINGS WILL BE SUBMITTED BY THE FIRE SUPPRESSION SUBCONTRACTOR
- MAXIMUM TRAVEL DISTANCE PERMITTED BY OBC TABLE 1017.2 = 200 FT. ACTUAL = 85 FT
- SEE ELECTRICAL DRAWINGS FOR EGRESS LIGHTING AND ANY LIGHT FIXTURES ON EMERGENCY CIRCUITS.
- CHILLED BOTTLED WATER WILL BE PROVIDED BY THE OWNER IN LIEU OF A DRINKING FOUNTAIN
- ALL CARPET USED IN THIS PROJECT IS TO BE LEGALLY PURCHASED IN THE UNITED STATES, AND THEREFORE, SHALL HAVE PASSED THE "PILL TEST" (FFA-70) PER CFR-TITLE 16-CHAPTER 16-PARTS 1609 AND 1630.
- CERTIFICATE OF USE AND OCCUPANCY SHALL BE POSTED IN THE NEW BUILDING DESCRIBING ITS USE AND OCCUPANCY AS DESIGNATED ON PLANS OR BY BUILDING OFFICIAL IN ACCORDANCE WITH SECTION 111.1 OBC.
- POSTED OCCUPANT LOAD: EVERY ROOM CONSTITUTING A PLACE OF ASSEMBLY SHALL HAVE THE APPROVED OCCUPANT LOAD OF THE ROOM POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT FROM THE ROOM OR SPACE. THE APPROVED OCCUPANT LOAD SIGNS SHALL BE INSTALLED AND MAINTAINED IN A LEGIBLE MANNER BY THE OWNER PER 1004.3 OBC.

CODE COMPLIANCE KEYNOTE LEGEND

- 1 EXISTING FIRE EXTINGUISHER
- 2 POSTED OCCUPANCY LOAD SIGN DETAIL 4/G100.
- 3 TACTILE EXIT SIGN DETAIL 5/G100
- 4 SEMI-RECESSED FIRE EXTINGUISHER CABINET. DETAIL 2/G100.
- 5 ELECTRICAL PANEL SEE ELECTRICAL DWGS.

SYMBOLS LEGEND

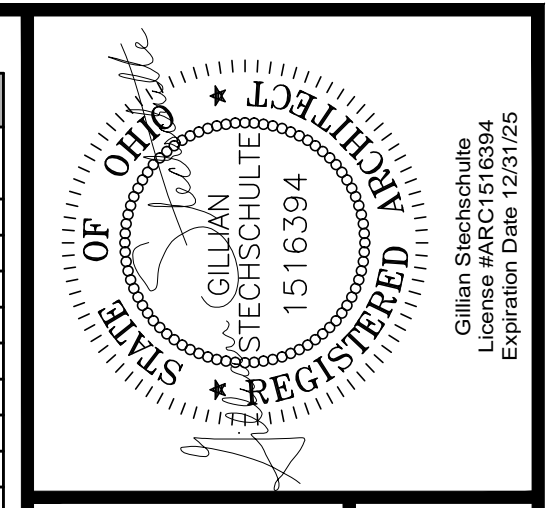
- # NOMINAL EXIT CAPACITY OF EACH DOOR OR PAIR OF DOORS
- # ROOM OCCUPANT LOAD
- EXIT/EMERGENCY LIGHT W/ REMOTE EGRESS
- EXIT/EMERGENCY LIGHT
- EXIT/EMERGENCY LIGHT - DIRECTIONAL
- EMERGENCY LIGHT
- X RATED ASSEMBLY TYPE
- DIRECTION OF EGRESS TRAVEL
- ORIGIN OF EGRESS TRAVEL
- ORIGIN OF MAXIMUM TRAVEL DISTANCE

2017 OBC CODE COMPLIANCE DATA		
OWNER	NAME	PERRY PROTECH
	ADDRESS	1270 FLAGSHIP DRIVE PERRYSBURG, OHIO 43551
	PHONE	419-879-8056
SUBMITTER	EMAIL	jswalve@PERRYPROTECH.com
	NAME	TECHNICON DESIGN GROUP, INC.
	ADDRESS	1800 NORTH PERRY ST. SUITE 102 OTTAWA, OHIO 45875
DESIGNER TYPE	PHONE	419-523-5323
	FAX	419-523-9441
	EMAIL	info@technicondesigngroup.com
DESIGN CRITERIA	OHIO REGISTRATION NUMBER	OHIO REGISTRATION NO. ARC1516394
	TYPE OF CONSTRUCTION	5B
	CURRENT USE GROUP	B/S-1
BUILDING AREA	PROPOSED USE GROUP	B/S-1
	BUILDING HEIGHT	
	NUMBER OF STORIES	1
EXISTING BUILDING AREA	OCCUPANT LOAD	
	STORAGE HEIGHT	18" BELOW CEILING
	MIXED USE GROUP	YES
ADDITIONAL BUILDING AREA	SEPARATED	YES
	NON-SEPARATED	
	EXISTING BUILDING AREA	10,319 SF
TOTAL BUILDING AREA	ADDITIONAL BUILDING AREA	120 SF (AREA UNDER NEW CANOPY)
	TOTAL BUILDING AREA	10,439 SF
	AREA OF ALTERATION	10,439 SF
ALLOWABLE AREA FACTOR	ALLOWABLE AREA FACTOR	36,000 SF (S-1 MOST RESTRICTIVE)
	SPECIAL INSPECTIONS	SEE QUALITY ASSURANCE NOTES

DESIGN LOAD DATA		
GRAVITY LOADS	FLOOR LIVE UNIFORMLY DISTRIBUTED (TABLE 1607.1)	40 PSF
	SLAB ON GRADE LIVE LOAD	125 PSF
	CONCENTRATED LOAD SLAB ON GRADE (lbs)	2,000 PSF
SNOW LOADS	ROOF LIVE	20 PSF
	ROOF DEAD	10 PSF
	GROUND SNOW LOAD (Pg)	20 PSF
WIND LOADS	FLAT SNOW LOAD (Pi)	14 PSF
	SNOW EXPOSURE FACTOR (Ce)	1.0
	SNOW LOAD IMPORTANCE FACTOR (Is)	1.0
EARTHQUAKE DESIGN DATA	THERMAL FACTOR (Ci)	1.0
	BASIC WIND SPEED (mph) (V _{ult})/V _(asd) /Serviceability W. Speed	115/89/76
	WIND EXPOSURE	B
SPECIAL LOADS	SEISMIC USE GROUP	II
	IMPORTANCE FACTOR (Ie)	1.0
	SPECTRAL RESPONSE	S _{DS} 0.132g
FLOOD LOAD	COEFFICIENTS (g)	S ₀₁ 0.088g
	MAPPED ACCELERATIONS	S _s 0.124g
		S ₁ 0.055g
SOIL	SEISMIC DESIGN CATEGORY	B
	SITE CLASS	D
	SEISMIC RESPONSE COEFFICIENT (Cs)	0.066
OCCUPANT LOAD CALCULATIONS PER O.B.C. 1004	RESPONSE MODIFICATION FACTOR (R)	2
	DESIGN BASE SHEAR	0.066W
	ANALYSIS PROCEDURE	ASCE 7-10
OCCUPANT LOAD CALCULATIONS PER O.B.C. 1004	COLLATERAL ROOF LOAD	N/A
	LOCATED IN FLOOD-HAZARD AREA	NO
	ASSUMED SOIL BEARING CAPACITY	1,500 PSF

#	ROOM NAME	ROOM AREA (S.F.)	AREA FOR ASSEMBLY	FUNCTION OF SPACE	OCCUPANT LOAD FACTOR	OCCUPANT LOAD
101	VESTIBULE	-	-	ASSEM - UNCON.	15	7
102	LOBBY	206	98	BUSINESS	100	1
103	RECEPTIONIST	65	-	ASSEM - UNCON.	15	44
104	CONFERENCE	652	652	ASSEM - UNCON.	15	44
105	CORRIDOR	-	-	-	-	-
106	OPEN OFFICE	266	-	BUSINESS	100	3
107	OFFICE	183	-	BUSINESS	100	2
108	OFFICE	199	-	BUSINESS	100	2
109	TRAINING	389	-	CLASSROOM	20	20
110	OPEN OFFICE	510	-	BUSINESS	100	6
111	STORAGE	23	-	ACCESSORY STOR.	300	1
112	WOMEN	-	-	-	-	-
113	MEN	-	-	-	-	-
114	STORAGE	23	-	ACCESSORY STOR.	300	1
115	BREAK	648	400	ASSEM - UNCON.	15	27
116	OPEN OFFICE	848	-	BUSINESS	100	9
117	OPEN OFFICE	604	-	BUSINESS	100	7
118	CLOSET	-	-	-	-	-
119	WORK ROOM	225	-	BUSINESS	3	3
120	OFFICE	230	-	BUSINESS	3	3
121	OFFICE	204	-	BUSINESS	3	3
122	OFFICE	104	-	BUSINESS	2	2
123	STORAGE	118	-	ACCESSORY STOR.	300	1
124	SHOWROOM	973	-	MERCANTILE	60	17
125	STORAGE	1385	-	STORAGE/STOCK/SHIPPING	300	5
126	MECHELEC.	136	-	ACCESSORY STOR.	300	1
127	JAN	30	-	ACCESSORY STOR.	300	1
128	STORAGE	372	-	STORAGE/STOCK/SHIPPING	300	2
TOTAL						168

PLUMBING FIXTURE REQUIREMENTS				
MINIMUM PLUMBING FIXTURES (USE GROUP B)				
OCCUPANT LOAD	MALE 1 PER	FEMALE 1 PER	MALE	FEMALE
WATER CLOSETS	50	50	2	2
LAVATORIES	80	80	2	2
DRINKING FOUNTAINS	100		2	
ACTUAL PLUMBING FIXTURE COUNT (TOTAL COUNT)				
WATER CLOSETS			3	3
LAVATORIES			2	2
DRINKING FOUNTAINS				2
SEE GEN NOTE 3				



Technicon Design Group
ARCHITECTURE . ENGINEERING . DESIGN
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www.technicondesigngroup.com

BUILDING RENOVATIONS
PERRY PROTECH
1270 FLAGSHIP DRIVE
PERRYSBURG, OH 43551

CODE COMPLIANCE PLAN

ISSUED DATE
11-21-23 BIDDING & PERMITS
01-09-24 PERMITS

DRAWN BY: ANP
DATE: 08-23

PLOT SCALE: 1:1

JOB NO. 45-2902-23

SHEET G100

DEMOLITION LEGEND

- COMPLETE EXISTING ASPHALT COURSE TO BE PLANED, RESHAPE, REGRADE AND COMPACT EXISTING STONE AS NECESSARY. IF EXISTING STONE BASE IS LESS THAN 6", REMOVE TO SUBGRADE TO PROVIDE A MINIMUM STONE BUILDUP OF 6".
- 1.5" PAVEMENT PLANNING
- CONCRETE TO BE REMOVED
- SIDEWALK TO BE REMOVED
- TBR- TO BE REMOVED

HATCH LEGEND - SEE SHEET C4 FOR DETAILS

- 1.5" PLANE & RESURFACE PAVEMENT
- LIGHT ASPHALT PAVEMENT
- CONCRETE SIDEWALK

STATE OF OHIO
 DANIEL P. KONSCHAK
 PE-89190
 November 20, 2023

DGL
 DGL CONSULTING ENGINEERS, LLC
 3455 BRIARFIELD BLVD., SUITE E
 MAUMEE, OH 43537
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TDG Technicon Design Group
 ARCHITECTURE ENGINEERING DESIGN
 1800 N PERRY STREET, SUITE 102, OTTAWA, OH 45875 P-419-523-5323
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BUILDING RENOVATIONS
PERRY PROTECH
 1270 FLAGSHIP DRIVE
 PERRYSBURG, OH 43551

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DEMOLITION AND LAYOUT PLAN

ISSUED DATE

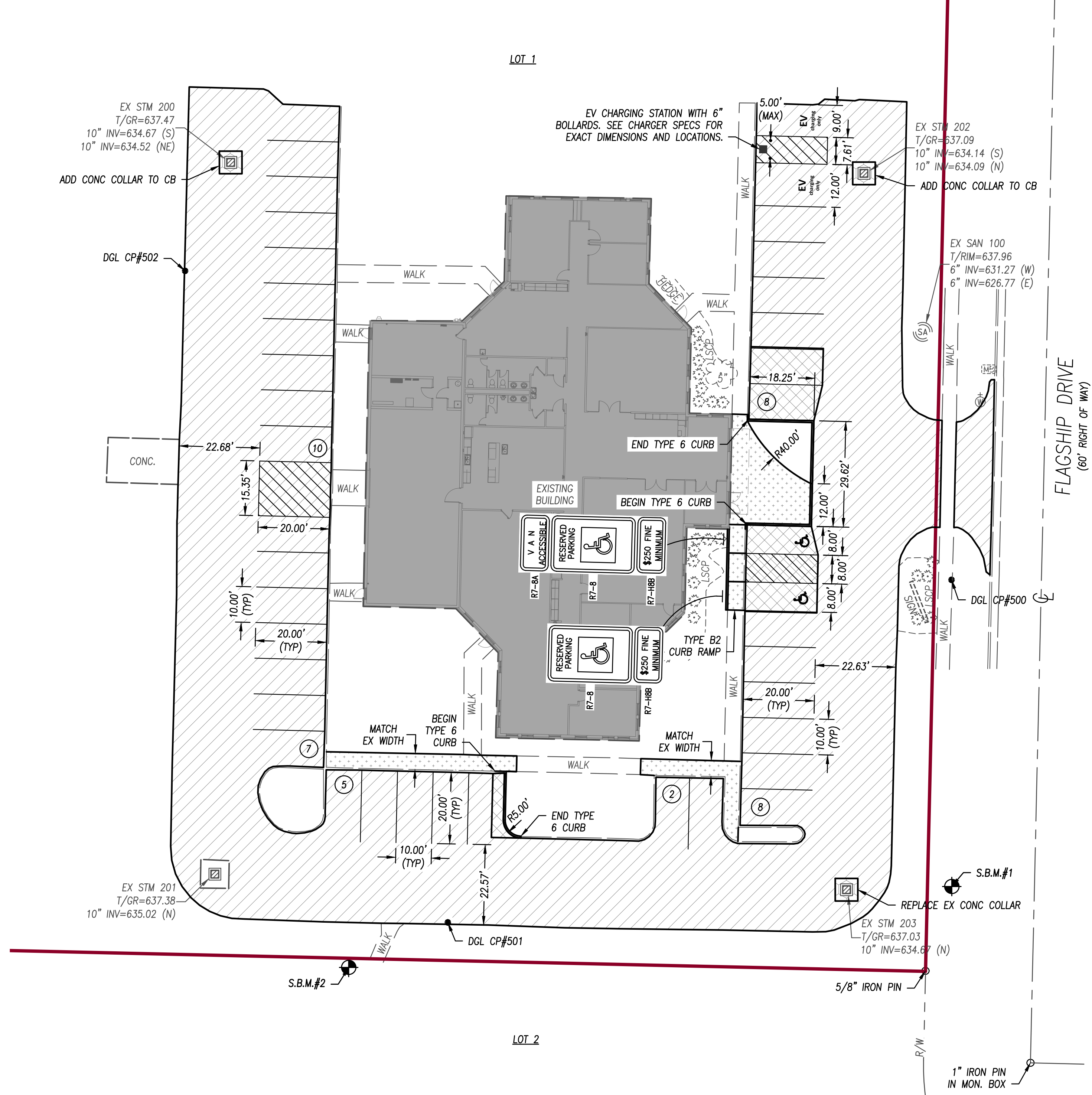
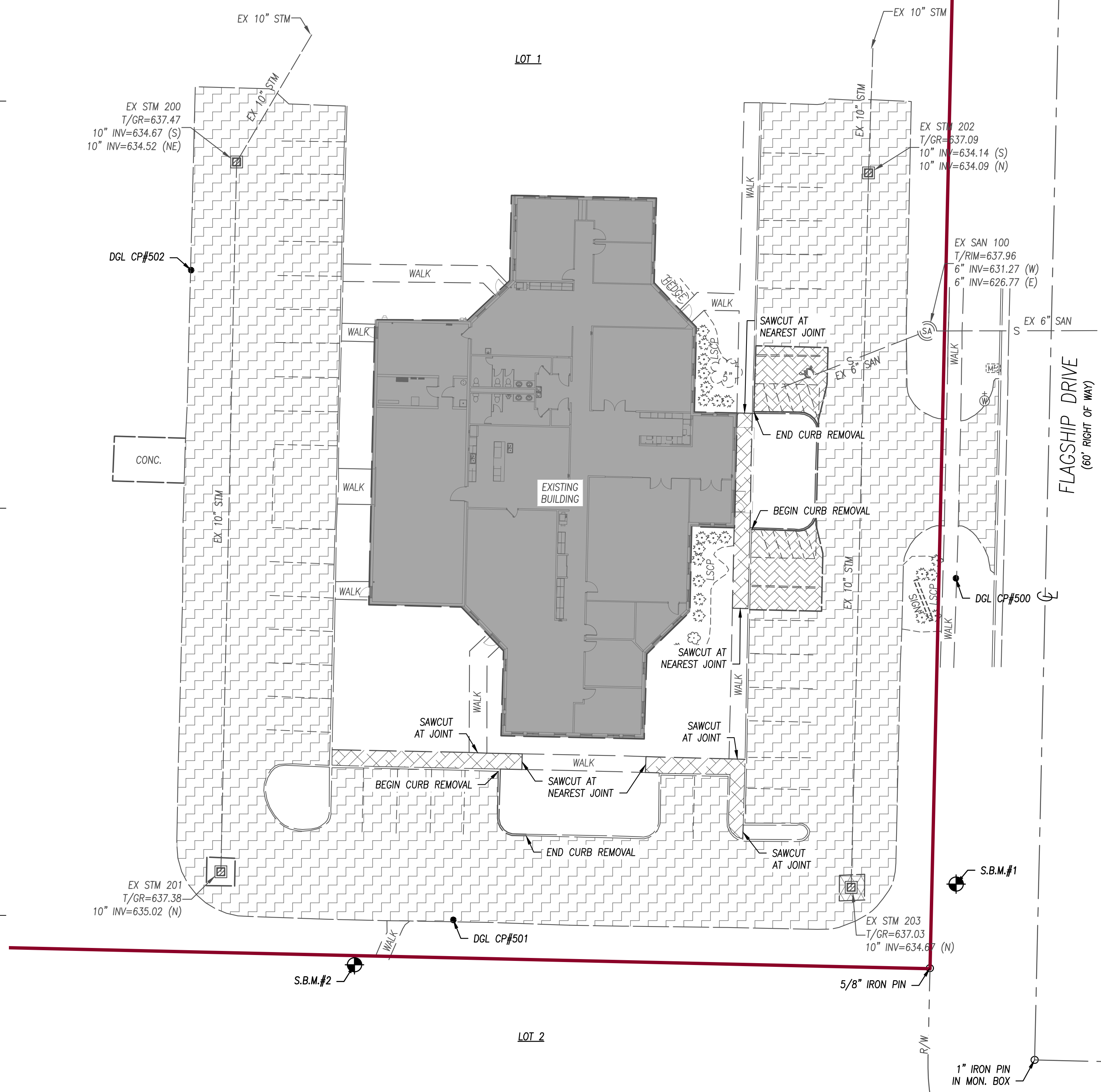
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DATE: 11-23

PLOT SCALE: 1:1

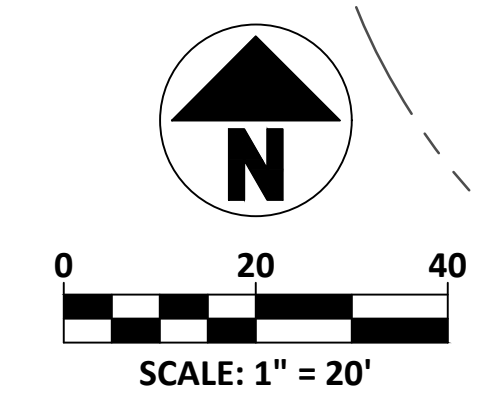
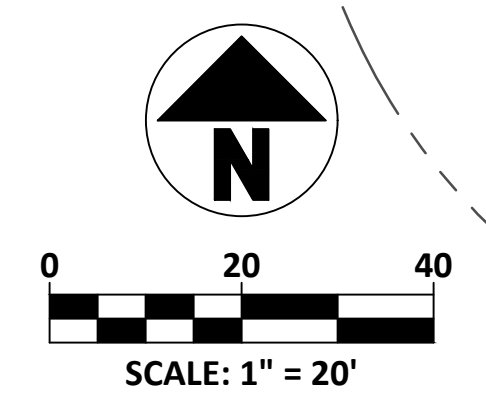
JOB NO. 23312

SHEET
C2



VERTICAL CONTROL POINTS		
Point	Elevation	Description
S.B.M. #1	639.39	NORTHWESTERLY BOLT OF FIRE HYDRANT
S.B.M. #2	639.02	"I" CUT OF LIGHT POLE BASE

HORIZONTAL CONTROL POINTS			
Point	Northing	Easting	Description
500.00	682853.79	1655134.00	MAG NAIL SET
501.00	682757.69	1654992.69	MAG NAIL SET
502.00	682940.48	1654918.99	MAG NAIL SET





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GRADING PLAN

ISSUED DATE

DRAWN BY: EAH

DATE: 11-23

PLOT SCALE: 1:1

JOB NO. 23312

SHEET C3

GRADING LEGEND

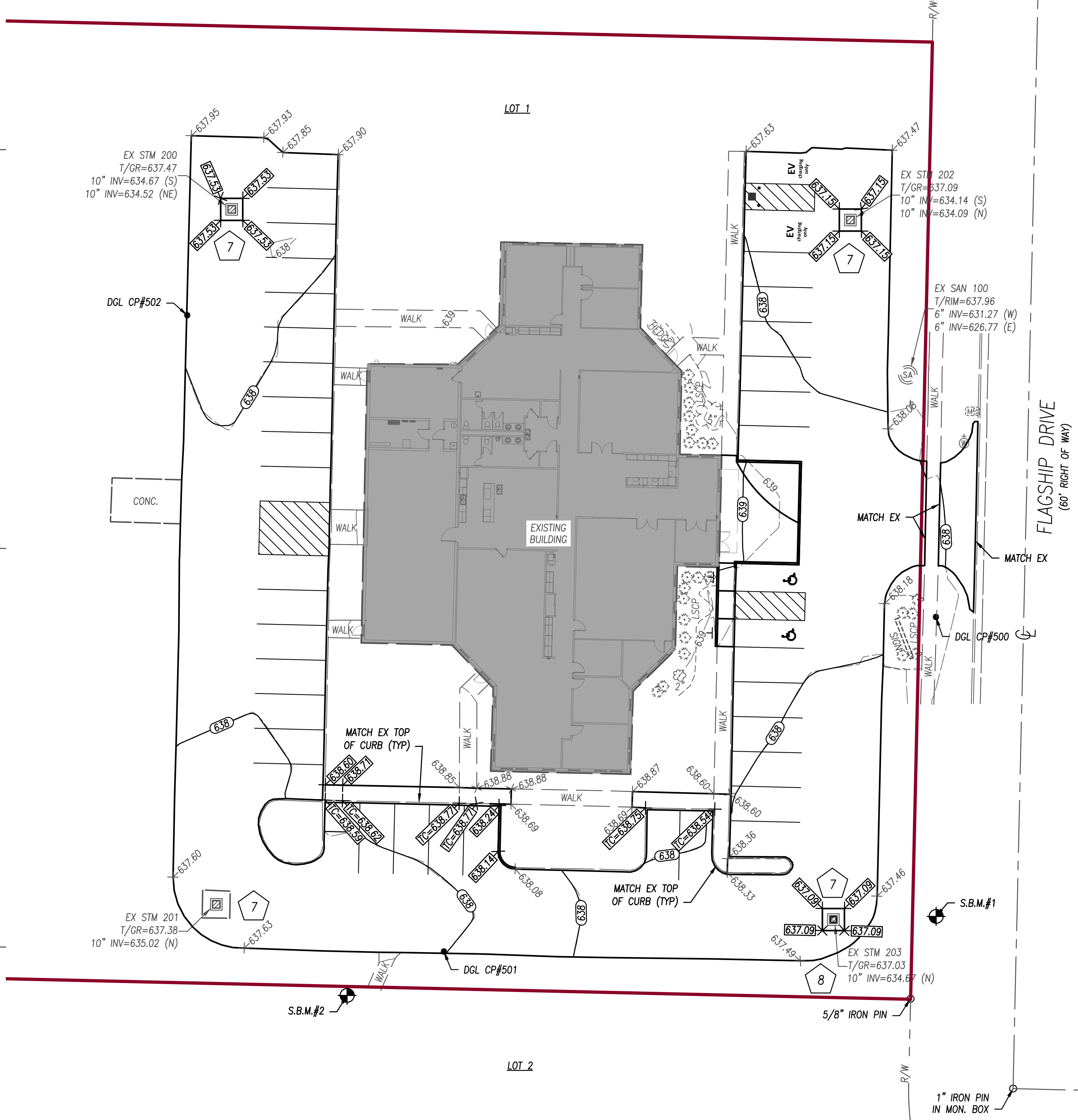
- EXISTING ELEVATION
- PROPOSED ELEVATION
- PROPOSED TOP OF CURB ELEVATION

EROSION CONTROL LEGEND

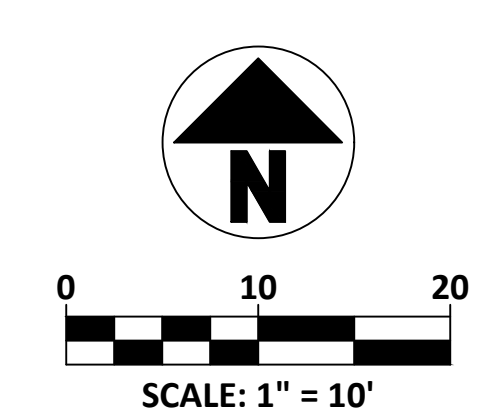
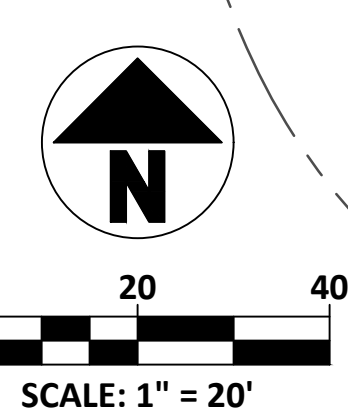
- 7 MANUFACTURED INLET FILTER
- 8 CONCRETE TRUCK WASHOUT

ALL SPOT ELEVATIONS ARE TO THE TOP OF FINISHED PAVEMENT/GRADE UNLESS NOTED OTHERWISE. ADD SIX (6) INCHES (0.50 FT) TO FINISHED PAVEMENT GRADES FOR BACK OF CURB GRADES UNLESS OTHERWISE NOTED.

REFER TO CIVIL AND EROSION CONTROL DETAILS SHEET FOR DETAILS

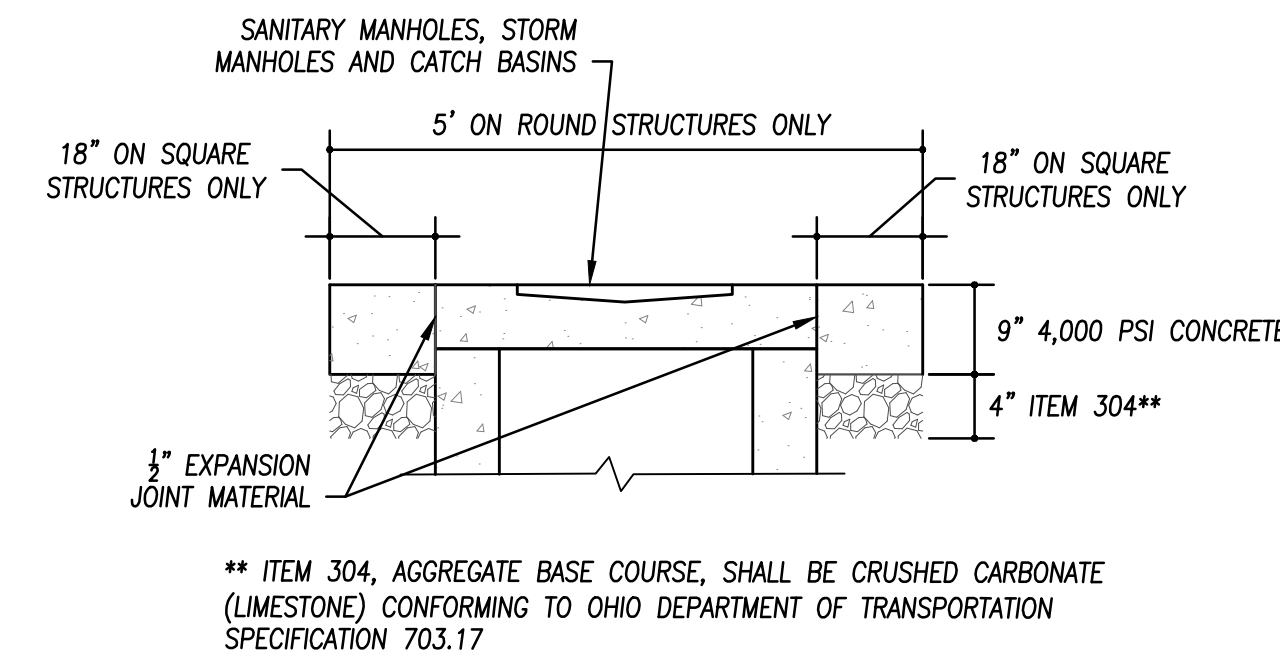


FRONT ENTRANCE DETAIL



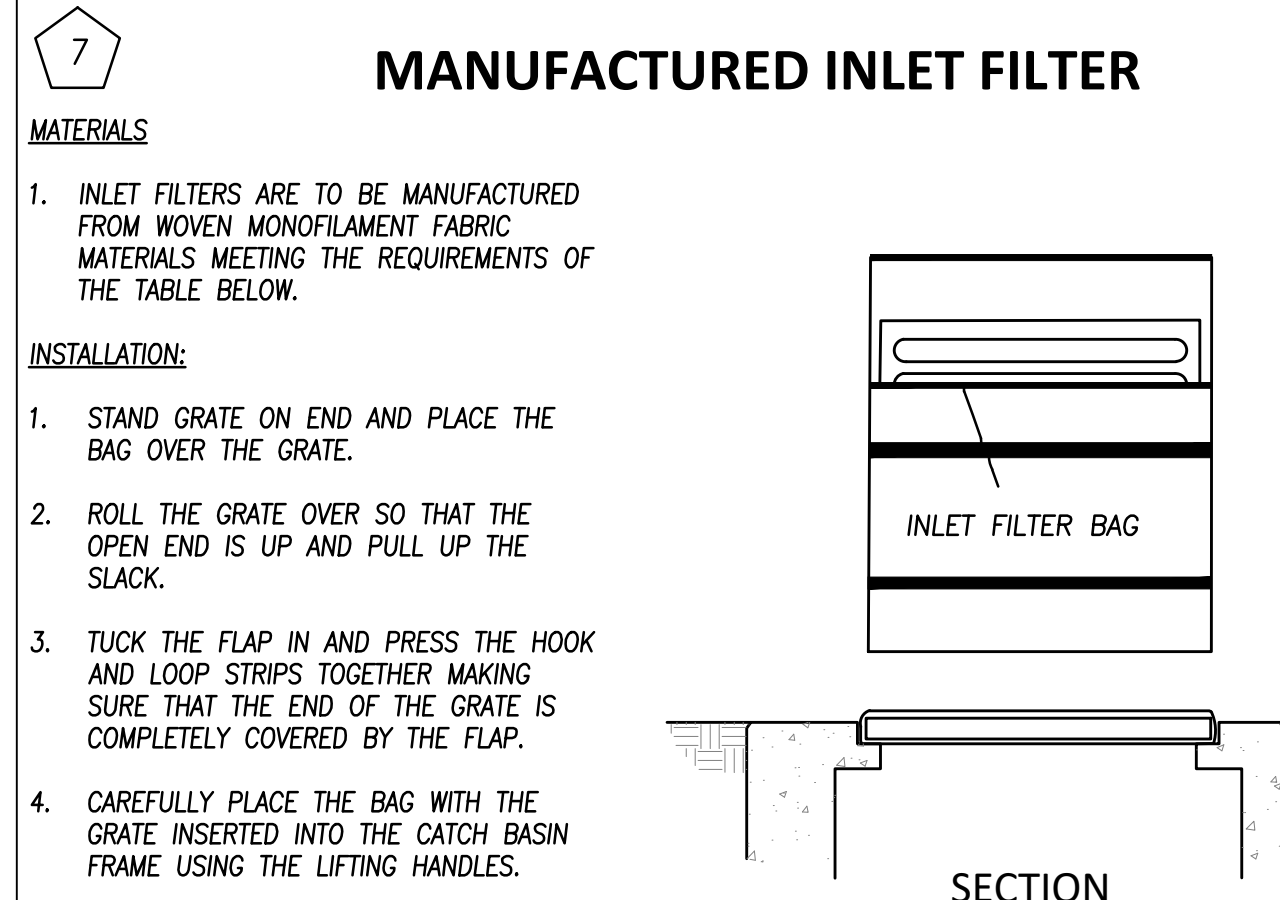
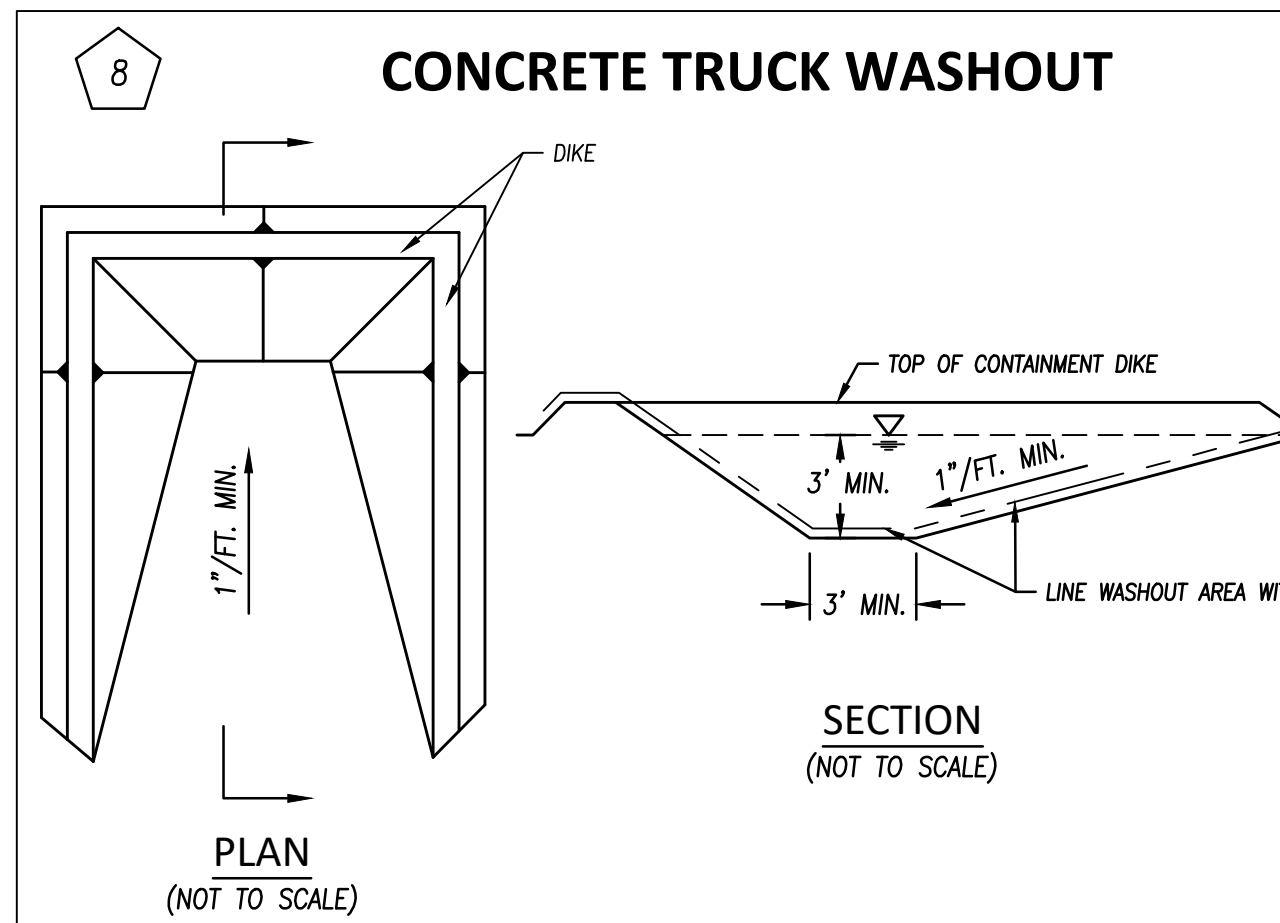
SEDIMENT AND EROSION CONTROL

- CONTRACTOR SHALL CONFORM WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT OHC000005 AND ALL PLANS AND SPECIFICATIONS REGARDING SOIL EROSION/SEDIMENTATION CONTROL REQUIREMENTS.
- CONTRACTOR SHALL IMPLEMENT ALL SOIL AND EROSION CONTROL PRACTICES AS PER THE PLAN AND AS REQUIRED BY THE LOCAL GOVERNING AGENCY AND THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA). THE EROSION CONTROL MEASURES SHALL BE INSTALLED PER THE CURRENT EDITION OF THE OEPA'S RAINWATER AND LAND DEVELOPMENT HANDBOOK.
- UNLESS OTHERWISE DIRECTED OR PROVIDED BY THE OWNER, THE CONTRACTOR SHALL PREPARE A STORM WATER POLLUTION PREVENTION PLAN (SWP3) FOR THE PROJECT UTILIZING THE EROSION AND SEDIMENT CONTROL PLANS AND DETAILS PROVIDED IN THE CONSTRUCTION DRAWINGS AS WELL AS ANY OTHER APPLICABLE DETAILS AND BEST MANAGEMENT PRACTICES (BMP). THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND UPDATING THE SWP3 THROUGHOUT CONSTRUCTION PER THE NPDES PERMIT.
- SWP3 AND INSPECTION LOGS MUST BE KEPT ON SITE THROUGHOUT CONSTRUCTION.
- AT THE END OF CONSTRUCTION OR AFTER THE NOTICE OF TERMINATION HAS BEEN FILED WITH THE OHIO EPA, THE SWP3 AND INSPECTION LOGS SHALL BE TURNED OVER TO THE OWNER. THE OWNER SHALL KEEP THE SWP3 AND INSPECTION LOGS IN THEIR RECORDS FOR A MINIMUM OF 3 (THREE) YEARS AFTER THE NOTICE OF TERMINATION HAS BEEN RECORDED.
- BORROW AND WASTE DISPOSAL AREAS SHALL BE SELECTED WITH FULL CONSIDERATION FOR SOIL EROSION AND SEDIMENT CONTROL. ALL BORROW AND WASTE DISPOSAL AREAS ARE INCLUDED IN THE NPDES PERMIT AND ARE REQUIRED TO BECOME A PART OF THE SWP3.
- ANY PARTY (INCLUDING, BUT NOT LIMITED TO, THE GENERAL CONTRACTOR) WHO HAS DAY-TO-DAY OPERATIONAL CONTROL OF ACTIVITIES AT THIS PROJECT, WHICH ARE NECESSARY TO ENSURE COMPLIANCE WITH THE SWP3 FOR THE SITE, OR OTHER CONDITIONS AS SET FORTH IN THE PERMIT, MUST FILE A CO-PERMITTEE NOTICE OF INTENT (NOI) WITH THE OHIO EPA. THIS IS THE SOLE RESPONSIBILITY OF THE CO-PERMITTEE AND SHOULD BE DONE 21 DAYS BEFORE GROUND IS BROKEN.
- PRIOR TO THE START OF ANY CONSTRUCTION, CONTRACTOR SHALL INSTALL SOIL EROSION AND SEDIMENTATION BEST MANAGEMENT PRACTICES (BMPs) AS PER THE PLAN AND AS REQUIRED BY THE CITY OF PERRYSBURG AND THE OHIO ENVIRONMENTAL PROTECTION AGENCY. THE EROSION CONTROL MEASURES SHALL BE INSTALLED PER THE CURRENT EDITION OF THE OHIO DEPARTMENT OF NATURAL RESOURCES RAINWATER AND LAND DEVELOPMENT HANDBOOK.
- EROSION CONTROL MEASURES MAY BE IMPLEMENTED AND LOCATIONS ADJUSTED AS NEEDED TO FACILITATE CONSTRUCTION PROVIDED THE SWP3 PLAN IS UPDATED ACCORDINGLY AND THE INTENT OF THE PLAN IS MET.
- SOIL EROSION AND SEDIMENTATION BMP MEASURES SHALL BE MAINTAINED AT ALL TIMES UNTIL CONSTRUCTION HAS BEEN COMPLETED, INCLUDING ALL GRASS BEING WELL ESTABLISHED AND/OR PERMANENT EROSION AND SEDIMENTATION BMP MEASURES ARE INSTALLED AND OPERATIONAL.
- CONTRACTOR SHALL NOTIFY THE CITY OF PERRYSBURG THREE (3) DAYS PRIOR TO STARTING CONSTRUCTION FOR PURPOSES OF MONITORING SOIL EROSION AND BMP MEASURES.
- SEDIMENT AND EROSION CONTROLS SHALL BE INSPECTED ONCE EVERY SEVEN (7) DAYS AND WITHIN 24 HOURS OF EVERY 0.5" OR GREATER RAINFALL BY QUALIFIED INSPECTION PERSONNEL. A WRITTEN LOG OF THESE INSPECTIONS SHALL BECOME PART OF THE SWP3. THIS LOG SHOULD INDICATE THE DATE OF INSPECTION, NAME OF INSPECTOR, WEATHER CONDITIONS, OBSERVATIONS, ACTIONS TAKEN TO CORRECT ANY PROBLEMS AND THE DATE ACTION WAS TAKEN. FURNISH THE OWNER, OWNER'S REPRESENTATIVE, AND ENGINEER WITH WRITTEN REPORTS UNLESS OTHERWISE DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
- THE PROJECT HAS BEEN DESIGNED TO CONTROL EROSION AND PREVENT DAMAGE TO OTHER PROPERTY. ALL STRIPPING, EARTHWORK, AND GRADING SHALL BE PERFORMED TO MINIMIZE EROSION. NATURAL VEGETATION SHALL BE RETAINED WHEREVER POSSIBLE. THE PROPOSED PLAN WILL ALLOW MOST ERODED MATERIALS TO BE RETAINED ON SITE.
- SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT OPERATIONS WHICH PROMOTE EROSION.
- SOLID, SANITARY, AND TOXIC WASTE MUST BE DISPOSED OF IN A PROPER MANNER IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. IT IS PROHIBITED TO BURN, BURY OR POUR INTO THE GROUND OR INTO STORM SEWERS ANY SOLVENTS, PAINTS, STAINS, GASOLINE, DIESEL FUEL, USED MOTOR OIL, HYDRAULIC FUEL, ANTI-FREEZE, CEMENT CURING COMPOUNDS, AND OTHER SUCH TOXIC OR HAZARDOUS WASTES.
- HAZARDOUS WASTES SHALL BE REMOVED OFF SITE AND PROPERLY DISPOSED OF CONSISTENT WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.
- IN THE EVENT OF A SMALL RELEASE OF PETROLEUM WASTE (LESS THAN 25 GALLONS), PETROLEUM-BASED AND CONCRETE CURING COMPOUNDS MUST FOLLOW SPECIAL HANDLING PROCEDURES.
- IN THE EVENT OF A LARGER RELEASE (25 OR MORE GALLONS): THE OHIO EPA (1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE (LEPC) MUST BE CONTACTED WITHIN 30 MINUTES OF A SPILL OF 25 OR MORE GALLONS.
- CONTRACTOR SHALL DESIGNATE A SITE DUMP/WASH AREA PRIOR TO STARTING CONSTRUCTION FOR SUCH PURPOSES AS WASHING OUT CONCRETE TRUCKS AND DUMPING NON-HAZARDOUS WASTE MATERIALS.
- DUMPING OR DISCHARGE OF ANY HAZARDOUS WASTE MATERIALS TO ANY STORM OR SANITARY SEWERS IS PROHIBITED.
- WASH OUT OF CEMENT TRUCKS SHALL BE IN A DIKED, DESIGNATED AREA OR INTO PORTABLE MANUFACTURED WASHOUT BAGS SUCH AS THE LINED READY MIX BAGS MANUFACTURED BY ENVIRO SYSTEMS, INC., OR EQUIVALENT, WHERE THE WASTEWATER CAN BE COLLECTED AND DISPOSED OF PROPERLY AFTER IT HARDENS.
- STORAGE TANKS SHOULD BE LOCATED IN DIKED AREAS THAT HOLD A MINIMUM VOLUME OF 110% OF THE LARGEST TANK.
- LOCATION OF DUMP/WASH LOCATIONS AND CONTRACTOR PROCEDURES ARE SUBJECT TO SUPERVISION BY THE FEDERAL, STATE, AND THE CITY OF PERRYSBURG.
- ALL CATCH BASINS AND INLETS NEAR DISTURBED AREAS SHALL HAVE TEMPORARY INLET PROTECTION SEDIMENT BARRIERS PLACED AND MAINTAINED THROUGHOUT CONSTRUCTION TO PREVENT SEDIMENT FROM ENTERING THE DRAINAGE SYSTEMS WHETHER SHOWN IN THE DRAWINGS OR NOT.
- ANY DETENTION OR RETENTION AREAS AND ANY PERIMETER CONTROLS SHALL BE IMPLEMENTED WITHIN SEVEN (7) DAYS OF FIRST GRUBBING AND SHALL REMAIN FUNCTIONAL UNTIL THE UP-SLOPE DEVELOPMENT AREA IS STABILIZED.
- STOCKPILED SOILS SHALL BE LEGALLY REMOVED FROM THE SITE OR COVERED WITH TEMPORARY SEED AND MULCH WITHIN SEVEN (7) DAYS AND SURROUNDED WITH SILT FENCE UNTIL SUCH TIME THAT IT CAN BE REUSED ON THE SITE.
- ALL AREAS AT FINAL GRADE OR WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED FOR 14 DAYS OR LONGER SHALL BE STABILIZED WITHIN SEVEN (7) DAYS OF ACTIVITY.
- ALL GRASS AREAS ARE TO BE SEEDED AND STRAW MULCHED WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED.
- ANY DISTURBED AREA WITHIN 50 FEET OF A STREAM OR SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE SHALL BE TEMPORARILY STABILIZED WITH SEEDING WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN (14) DAYS.
- ANY DISTURBED AREA WITHIN 50 FEET OF A STREAM OR SURFACE WATER OF THE STATE AND AT FINAL GRADE SHALL BE PERMANENTLY STABILIZED WITH SEEDING WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE.
- STRUCTURAL PRACTICES SHALL BE USED TO CONTROL EROSION AND TRAP SEDIMENTS FROM ALL SITES REMAINING DISTURBED FOR MORE THAN (14) FOURTEEN DAYS.
- SEED AND MULCH ALL AREAS NOT SHOWN AS BUILDING OR PAVEMENT AND ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES UNLESS OTHERWISE NOTED IN THE PLANS.
- ALL STREETS MUST BE MAINTAINED DURING CONSTRUCTION. STREETS SHALL BE KEPT FREE OF MUD, DIRT, AND CONSTRUCTION DEBRIS. CONTRACTOR SHALL PROVIDE ROUTINE STREET SWEEPING TO ENSURE MINIMAL EROSION INTO THE PUBLIC STORM SEWER SYSTEM AND ROADWAY.
- CLEANUP SHALL BE CONDUCTED IN A MANNER TO ENSURE THAT EROSION MEASURES ARE NOT DISTURBED.
- THE CITY OF PERRYSBURG MAY REQUIRE WORK TO BE STOPPED AND THE STORM DRAINAGE OUTLET TO BE PLUGGED IF CONDITIONS BECOME UNSATISFACTORY.
- NO OPEN BURNING WILL BE PERMITTED ON THE SITE UNLESS A PERMIT IS OBTAINED THROUGH THE OHIO ENVIRONMENTAL PROTECTION AGENCY AND/OR THE REQUIREMENTS OF OHIO REVISED CODE 3745-19 ARE COMPLIED WITH.
- CONSTRUCTION SCHEDULE
 - CONTACT THE CITY OF PERRYSBURG.
 - INSTALL PERIMETER EROSION CONTROL MEASURES.
 - MILL PAVEMENT.
 - INSTALL PAVEMENT, CURBS AND SIDEWALKS.
 - FINISH GRADING AND FINAL STABILIZATION.
 - REMOVE TEMPORARY EROSION CONTROL MEASURES WHEN GROUND IS STABILIZED.
 - CONSTRUCTION COMPLETE.



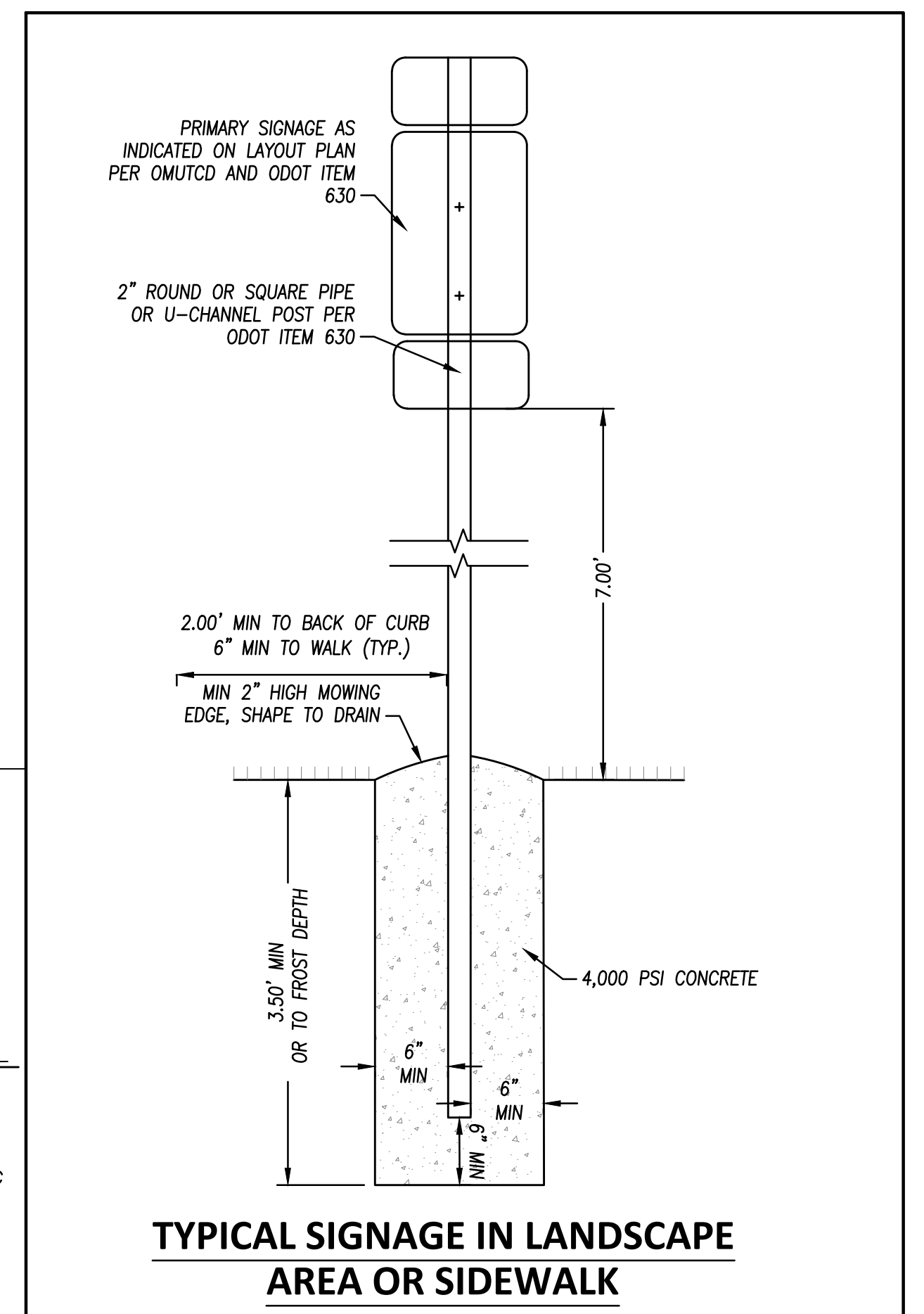
CONCRETE COLLAR DETAIL

NOTE: CONCRETE COLLARS TO BE ADDED TO ALL SANITARY AND STORM STRUCTURES IN PAVEMENT.

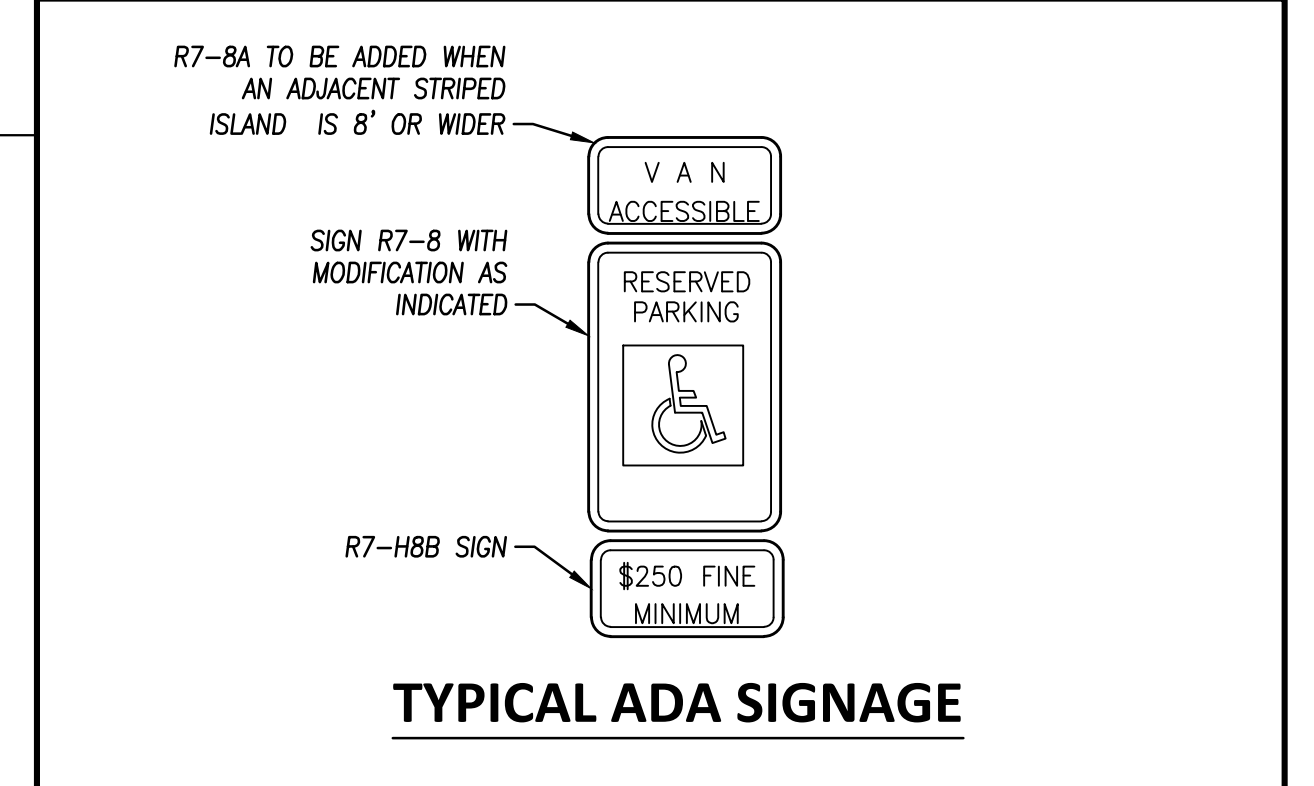


- INSTALLATION:**
- STAND GRATE ON END AND PLACE THE BAG OVER THE GRATE.
 - ROLL THE GRATE OVER SO THAT THE OPEN END IS UP AND PULL UP THE SLACK.
 - TUCK THE FLAP IN AND PRESS THE HOOK AND LOOP STRIPS TOGETHER MAKING SURE THAT THE END OF THE GRATE IS COMPLETELY COVERED BY THE FLAP.
 - CAREFULLY PLACE THE BAG WITH THE GRATE INSERTED INTO THE CATCH BASIN FRAME USING THE LIFTING HANDLES.
- MAINTENANCE:**
- ROUTINELY INSPECT INLET FILTERS AFTER EACH SIGNIFICANT RAIN, MAINTAINING INLET FILTERS IN A FUNCTIONAL CONDITION AT ALL TIMES.
 - REMOVE SILT, SEDIMENT, AND DEBRIS FROM THE SURFACE AND THE VICINITY OF THE UNIT WITH A SQUARE POINT SHOVEL OR STIFF BRISTLE BROOM. REMOVE FINE MATERIAL FROM INSIDE THE FILTER BAG AS NEEDED.
 - KEEP MATERIAL AWAY FROM ENVIRONMENTALLY SENSITIVE AREAS AND WATERWAYS IN A MANNER SATISFACTORY TO THE ENGINEER/INSPECTOR.
 - REPLACE AND DISPOSE OF FILTER BAGS DAMAGED WHICH ARE NO LONGER EFFECTIVE.
 - WHERE THE INLET FILTER DETERIORATES OR FAILS, IT SHALL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE SOLUTION.
 - REMOVE INLET FILTERS FROM THE SITE WHEN NO LONGER REQUIRED.

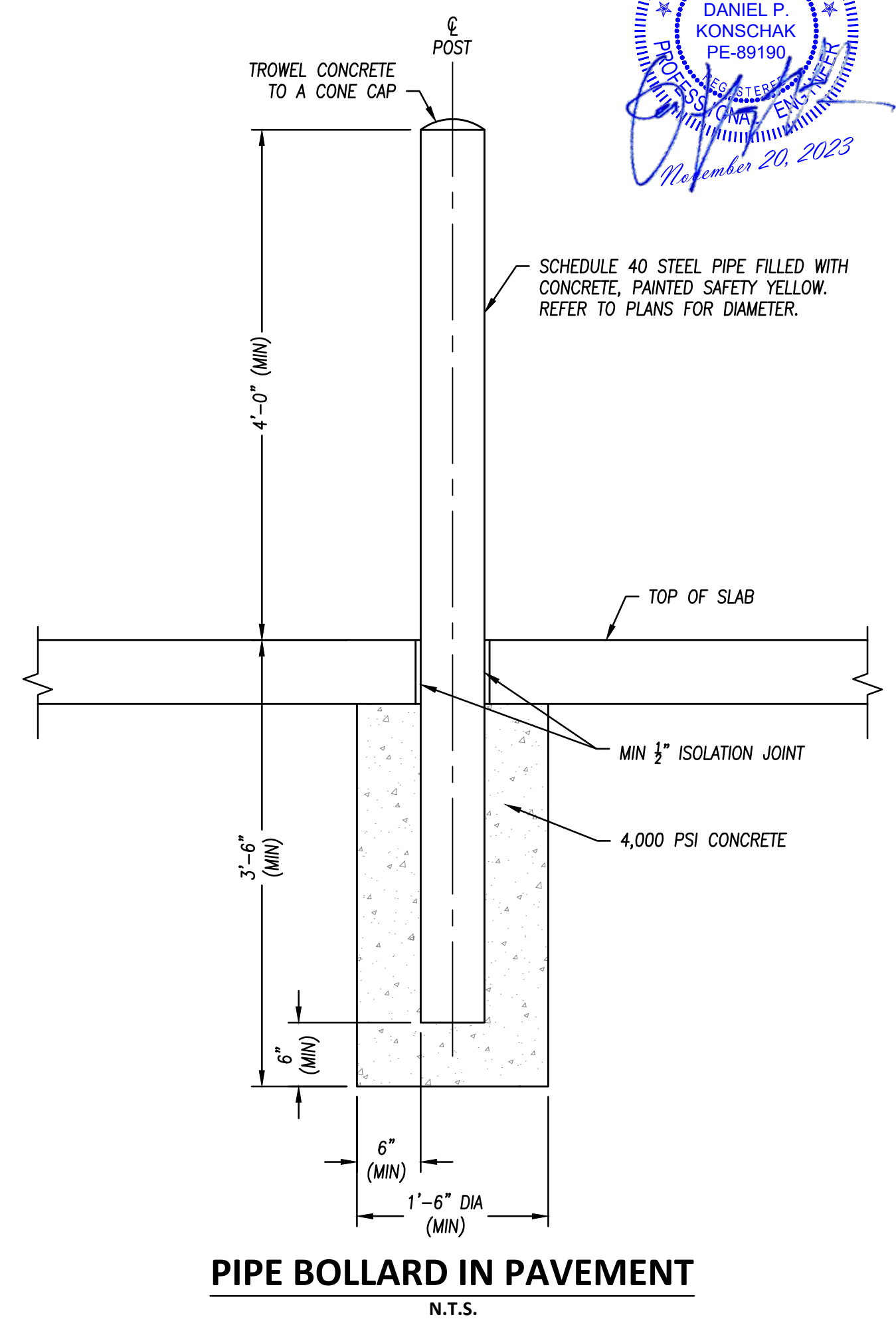
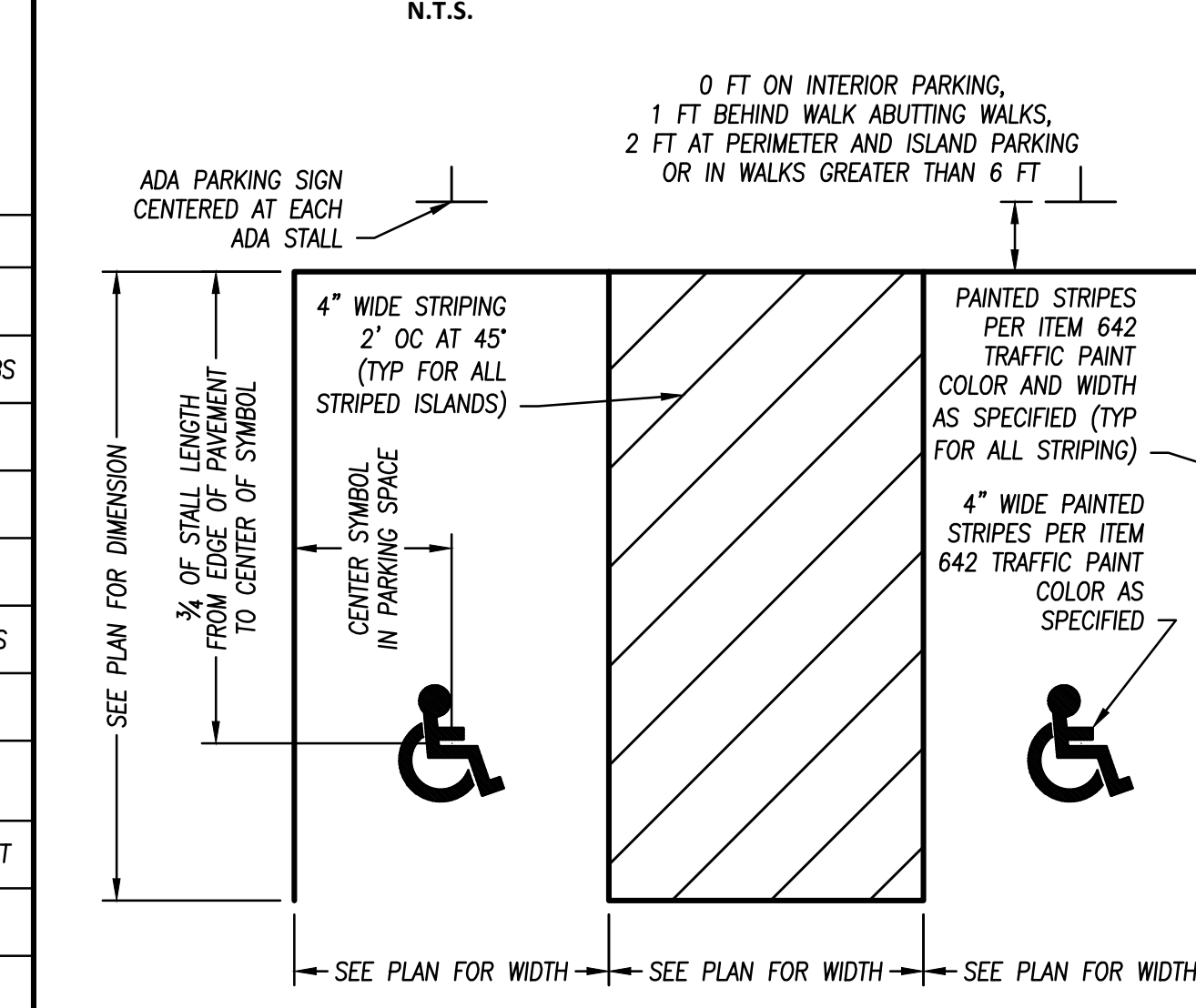
MECHANICAL PROPERTIES	TEST METHOD	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	365 LBS X 200 LBS
GRAB TENSILE ELONGATION	ASTM D 4632	24% X 10%
PUNCTURE STRENGTH	ASTM D 4833	90 LBS
MULLEN BURST STRENGTH	ASTM D 3786	450 PSI
TRAPEZOID TEAR STRENGTH	ASTM D 4533	115 LBS X 75 LBS
UV RESISTANCE	ASTM D 4355	90 %
APPARENT OPENING SIZE	ASTM D 4751	NO 40 (US STD SIEVE)
FLOW RATE	ASTM D 4491	145 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D 4491	2.1/SEC



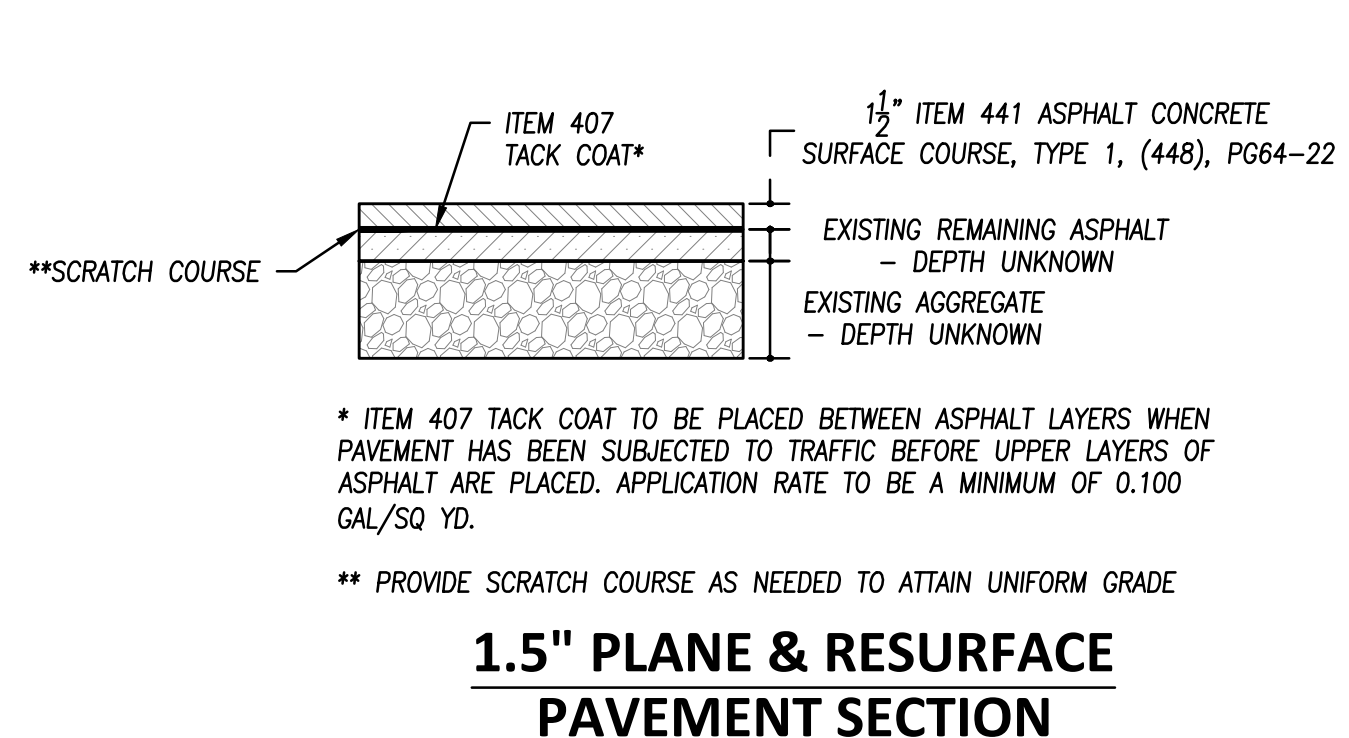
TYPICAL SIGNAGE IN LANDSCAPE AREA OR SIDEWALK



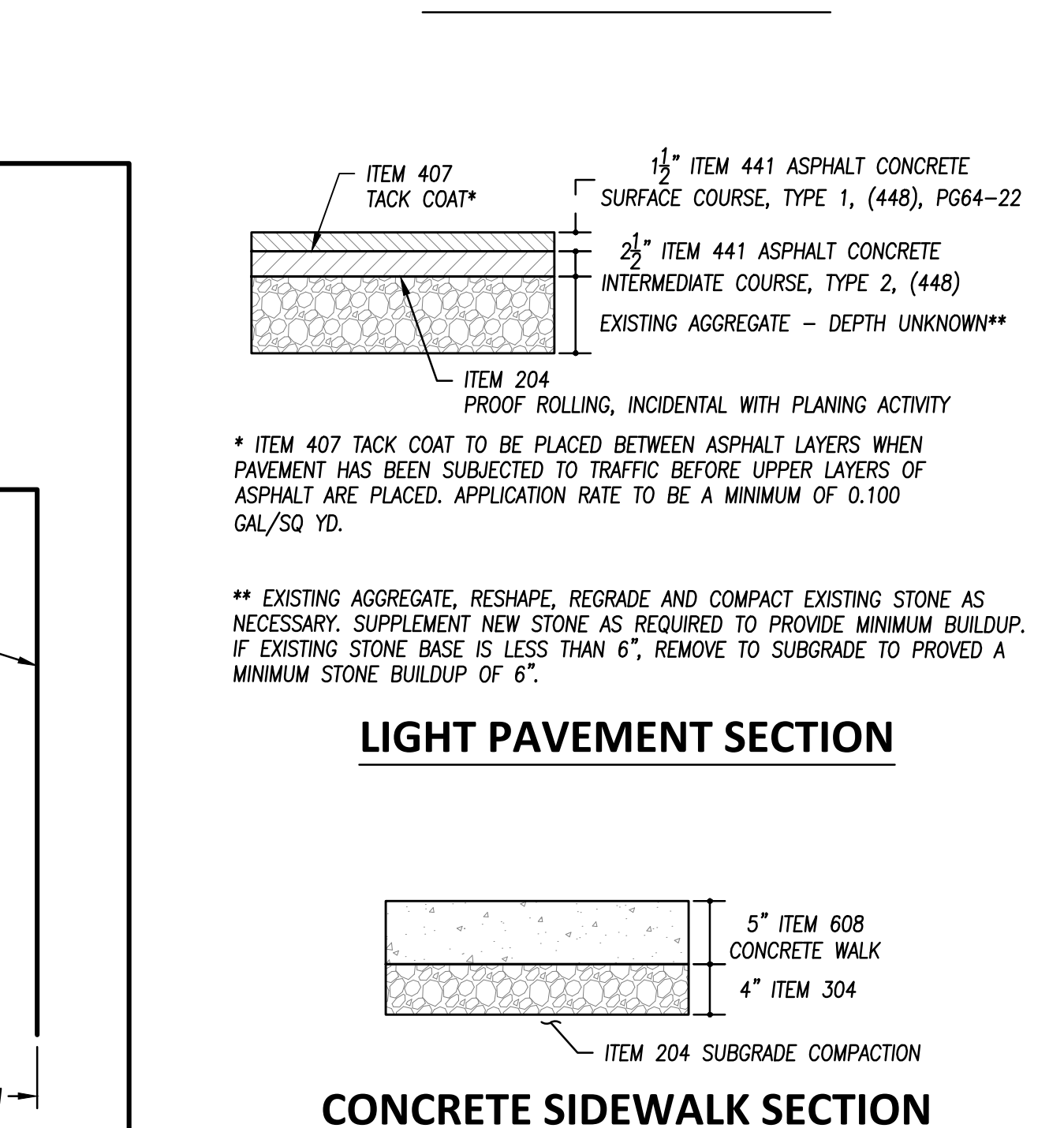
ADA PARKING/STRIPING



PIPE BOLLARD IN PAVEMENT



1.5\"/>



LIGHT PAVEMENT SECTION



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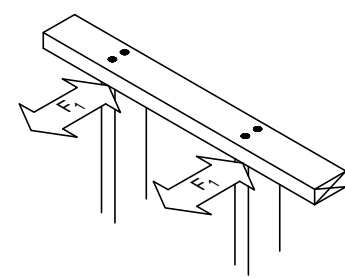
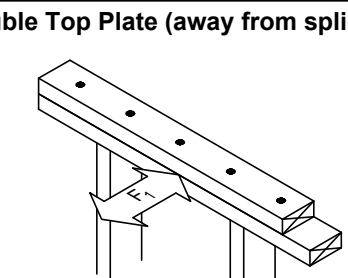
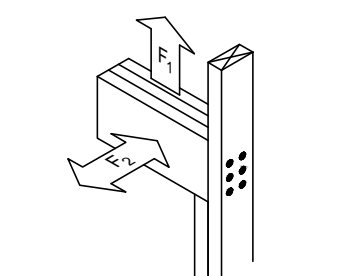
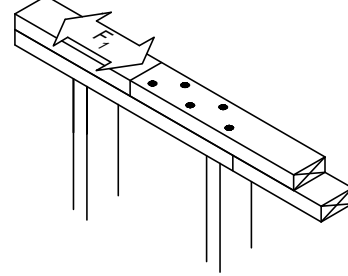
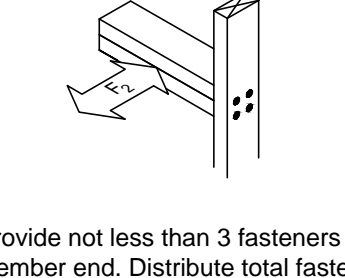
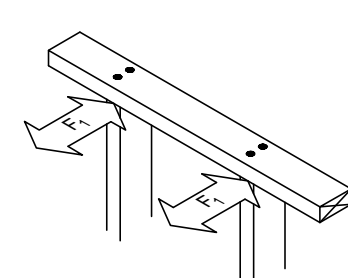
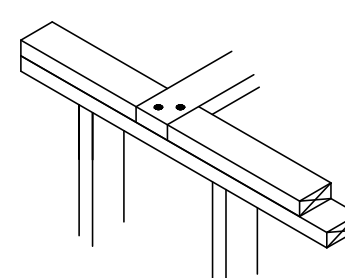
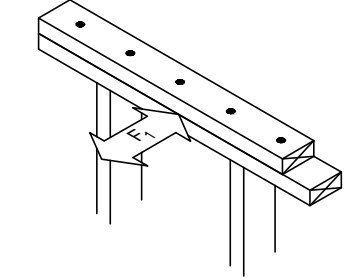
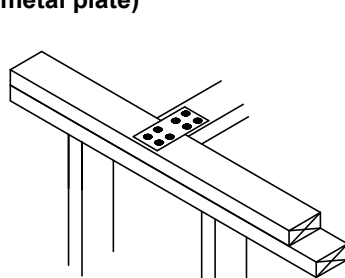
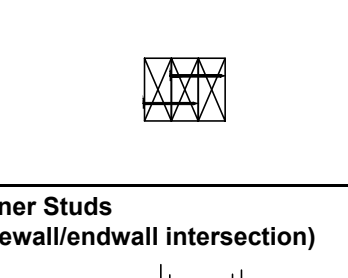
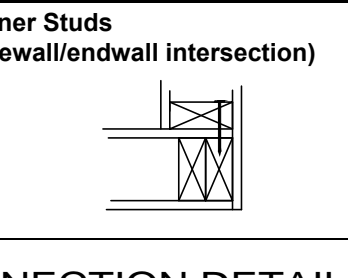
BUILDING RENOVATIONS
PERRY PROTECH
1270 FLAGSHIP DRIVE
PERRYSBURG, OH 43551

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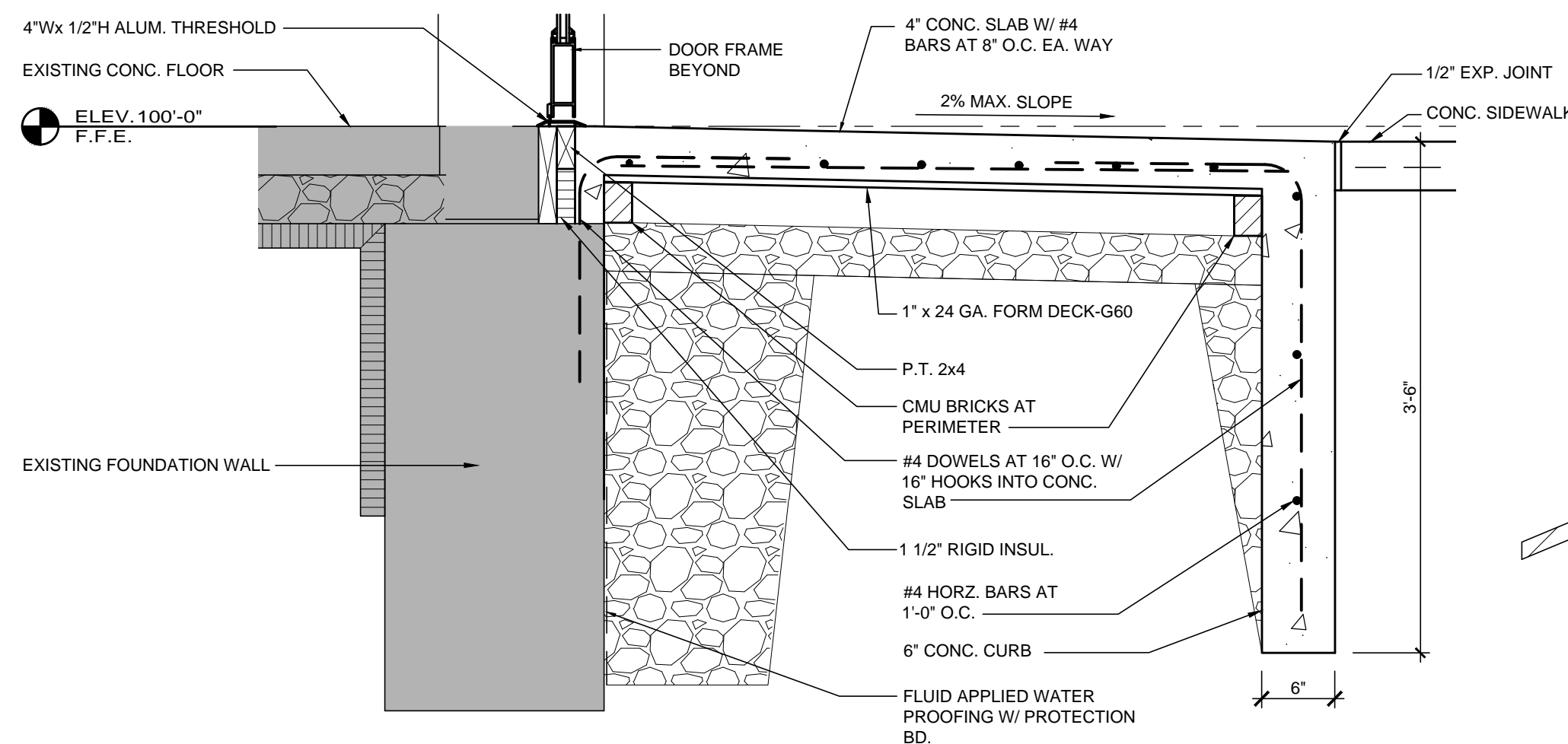
CIVIL AND EROSION CONTROL DETAILS

ISSUED DATE	

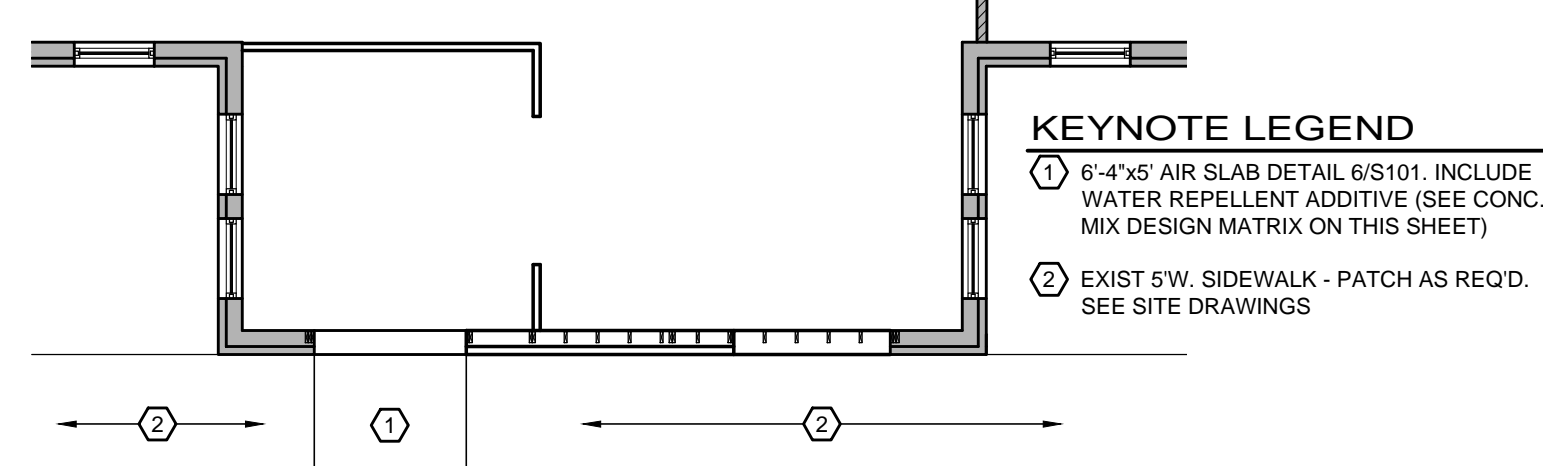
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DATE:	11-23
PLOT SCALE:	1:1
JOB NO.	23312
SHEET	C4

EXTERIOR WALL / SIDEWALL CONNECTIONS			EXTERIOR WALL / SIDEWALL CONNECTIONS (CONTINUED)		
 <p>Top or Bottom Plate-to-Stud</p>	Fasteners Quantity per Connection		 <p>Double Top Plate (away from splice)</p>	Fasteners Spacing	
	Studs Spaced 16" oc 0.131"x3" End Nail 4			0.131"x3" End Nail 7-in. oc	
 <p>Header-to-Stud (wind only, gravity carried by jamb studs)</p>	Fastener Quantity Each End 6 8 10 12 14 16		Maximum Header Span 0.131"x3" Nails 108" (9'-0") 145" (12'-1") 181" (15'-1") 217" (18'-1") 254" (21'-2") 290" (24'-2")		7/16"x2.5"x15 Ga. Staples 70" (5'-10") 94" (7'-10") 117" (9'-9") 141" (11'-9") 165" (13'-9") 188" (15'-8")
	Provide not less than 3 fasteners per member end. Distribute total fastener quantity equally among all members		 <p>Double Top Plate Splice</p>		Unit Length (ft) 40 42 44 46 48 50 52 54 56 58 60
 <p>Sill Plate-to-Stud</p>	Fastener Quantity Each End 6 8 10 12 14 16		Maximum Header Span 0.131"x3" Nails 108" (9'-0") 145" (12'-1") 181" (15'-1") 217" (18'-1") 254" (21'-2") 290" (24'-2")		7/16"x2.5"x15 Ga. Staples 70" (5'-10") 94" (7'-10") 117" (9'-9") 141" (11'-9") 165" (13'-9") 188" (15'-8")
	Provide not less than 3 fasteners per member end. Distribute total fastener quantity equally among all members		 <p>Top or Bottom Plate-to-Stud</p>		Fasteners Quantity per Connection
 <p>Top Plate Intersection</p>	Fastener 0.131"x3" End Nail Quantity 3		 <p>Double Top Plate (away from splice)</p>		Fasteners Spacing
	Exterior or load bearing walls only		GENERAL WALL CONNECTIONS (MINIMUM CONNECTIONS WHICH MAY BE SUPERCEDED)		0.131"x3" End Nail 12" oc
 <p>Top Plate Corner Intersection (alt. metal plate)</p>	Fastener 0.131"x3" Face Nail Quantity 6 each side		 <p>Built-up Studs (stud-to-stud each ply)</p>		Fastener #8x3" Screw 0.131"x3" Face Nail Spacing 8" oc 8" oc
	Exterior or load bearing walls only. 3"x6"x0.036" plate		 <p>Corner Studs (sidewall/endwall intersection)</p>		Fastener #8x3" Screw 0.131"x3" Face Nail Spacing 16" oc 16" oc

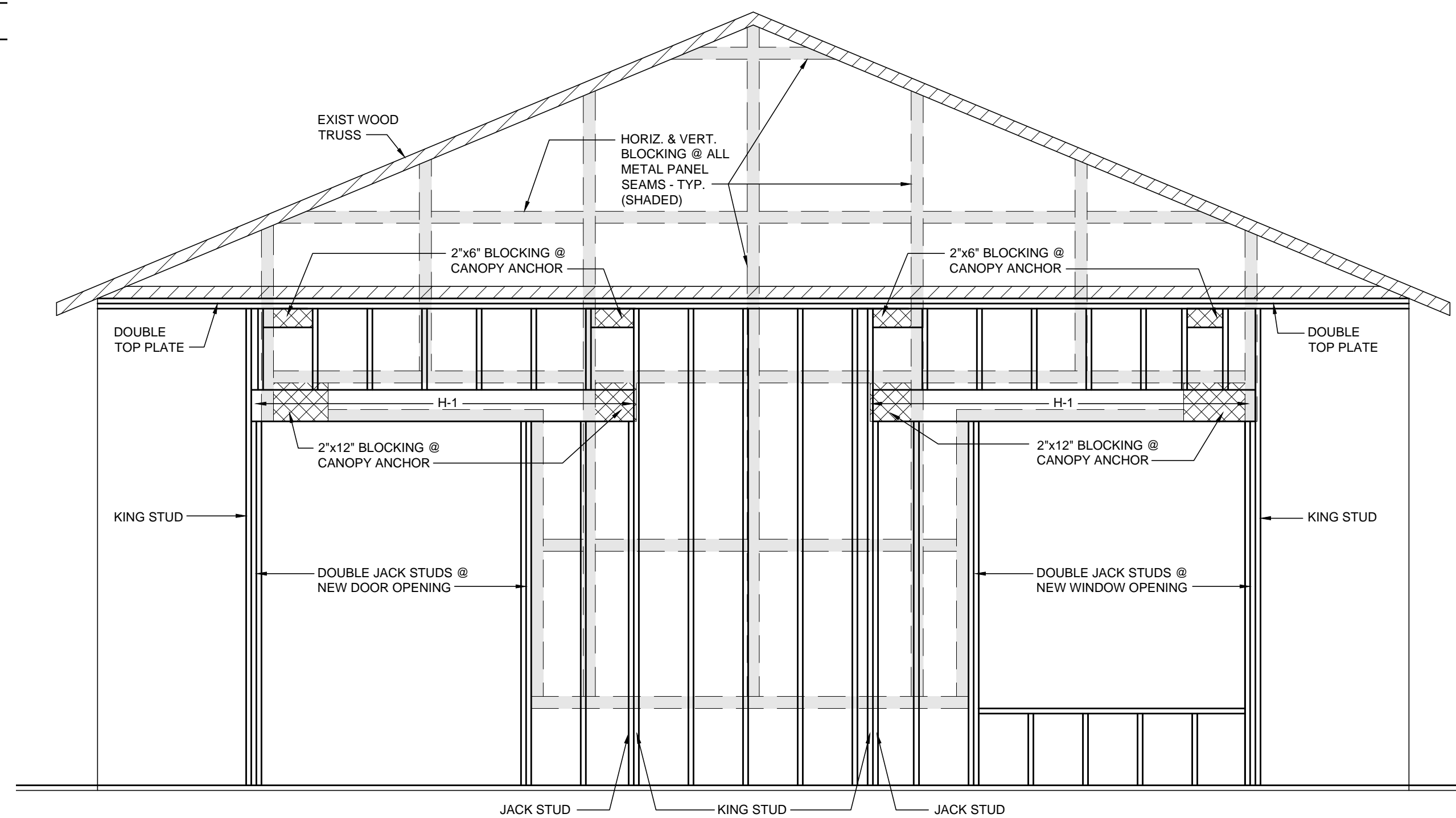
7 TYPICAL FRAMING CONNECTION DETAILS
S101 SCALE: N.T.S.



6 AIR SLAB DETAIL
S101 SCALE: 1"=1'-0"



5 FOUNDATION PLAN
S101 SCALE: 1/8"=1'-0"



3 EAST WALL FRAMING ELEVATION
S101 SCALE: 3/8"=1'-0"

SEE WALL SECTION 2/A201 & HEADER/LINTEL PLAN 1/S101

INTENDED USE	MIN. FC (No. 1)	Conc. Type [2]	Max. W/C Ratio [3]	Min. Cem. Mt. (300) [4a]	Max. Aggr. Size (in) [5a]	Slump Limits (in) [6]	Total Air Limits (%) [7a]	Cement Type	Req'd. Admix. [8]	Other Reqmts. [9]
INTERIOR SLABS ON GRADE	4	NW	0.5	964	1	5	3	1		NOTE 'C'
EXTERIOR CONCRETE DOOR AIR SLABS	4	NW	0.45	600	1	5	6	1	AE	NOTE 'A&B'

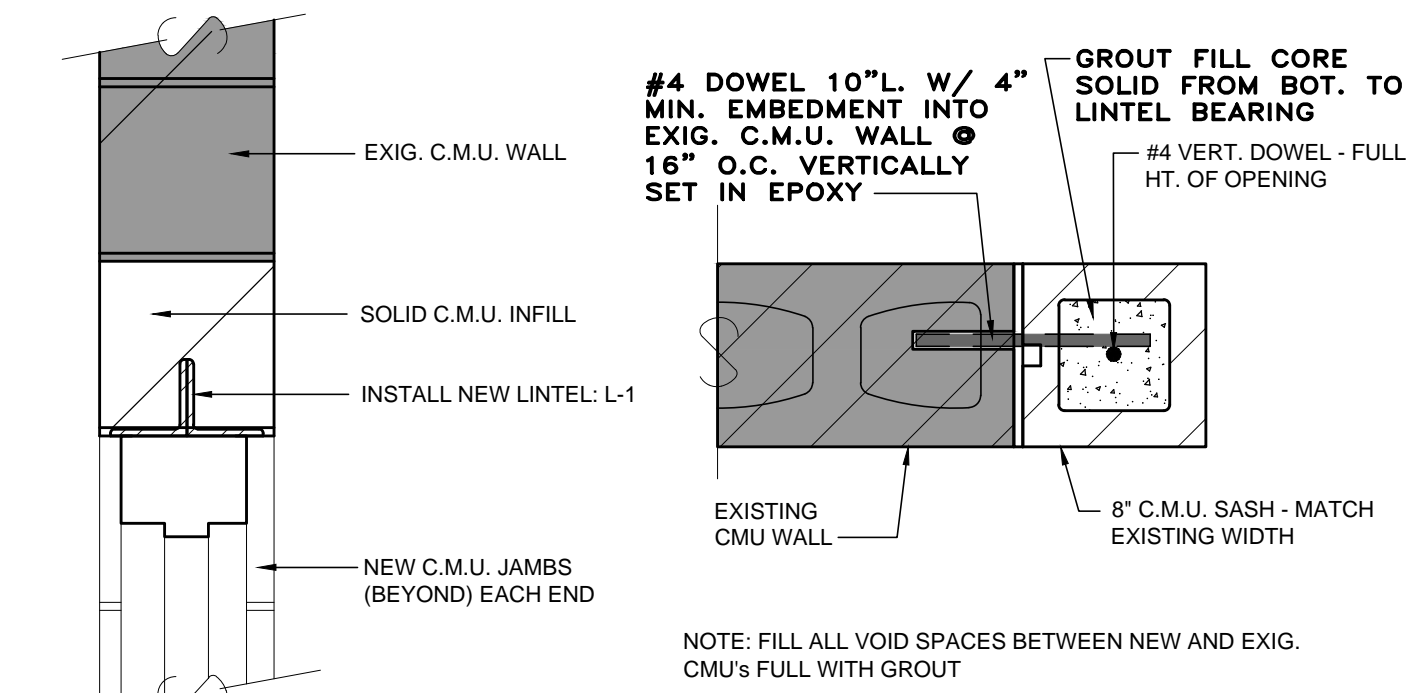
Concrete plant, ready mix trucks and all materials must meet or exceed O.D.O.T. standards.

NOTES:
 [1] Strength: Proportion mixed to attain compressive strength indicated 28 days, unless higher strengths are specified.
 [2] Provide normal weight (NW) concrete as indicated.
 [3] W/CM is the ratio of the weight of water to the weight of cementitious materials (Portland cement). The weight of water includes all free water in the aggregates at the time of batching.
 [4a] Minimum cementitious materials.
 [4b] GGBFS at 20% replacement of Type 1 Cement per ASTM C689.
 [4c] Fly Ash at 15% replacement of Type 1 cement per ASTM C618 is permitted in footings only.
 [5a] For the maximum coarse aggregate sizes indicated, use the following aggregate size numbers per ASTM C33: 1" = No. 57 aggregate, 3/4" = No. 67 aggregate.
 [6] For fine aggregate sizes, provide natural sand that meets ASTM C33. No manufactured sand permitted.
 [7a] When slump is listed as maximum, tolerance is plus 1" and minus 1". 6" Slump max with mid-range water reducer and up to 8" slump max with high-range water reducer.
 [7b] Total air contents listed include both entrained and entrapped air $\pm 1.5\%$. [7c] Maximum total air limits shall be 3% for interior slabs on grade.
 [8] Abbreviations for admixtures are as follows: reducing admixture (Plasticizer for pumping - optional) AE = Air-entrained admixture WRA = Water
 [9] Other requirements are as follows: Note A: O.D.O.T. class C, Option 3 (20% max. slag) Note B: See site drawings for concrete design of exterior floorwork, walls, curbs, etc. Note C: Include concrete porous absorbing admixture (PAA) in the concrete slab-on-grade in building.

END OF APPENDIX

MARK	SIZE	END BRG. MIN.	BEARING ELEV.	NOTES
H-1	(3) 2x10's W/ 1/2" PLYWD. LAMINATED	3"	109'-0"	1,2
L-1	(2) L 3 1/2"x3 1/2"x1/4"	4 1/2" MIN.	107'-4"	3,4,5

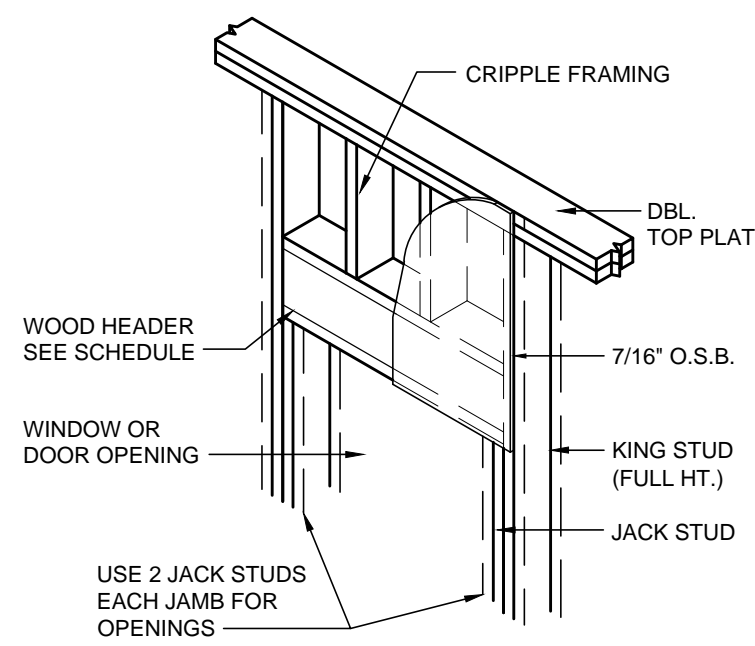
- NOTES:
 1. SYP GRADE 2 OR BETTER.
 2. G.C. TO COORDINATE BRG. ELEV. W/ DOOR HEAD HT. PRIOR TO FRAMING.
 3. NEW LINTEL IN EXIST. WALL, SHORE & PATCH EXIST. MASONRY AS REQ'D.
 4. ALL LINTELS SHALL BE PRIMED AND PAINTED.
 5. DOOR LINTEL HEIGHTS INDICATED ARE FOR REFERENCE ONLY. THE G.C. SHALL VERIFY ALL LINTEL HEIGHTS PRIOR TO INSTALLING.



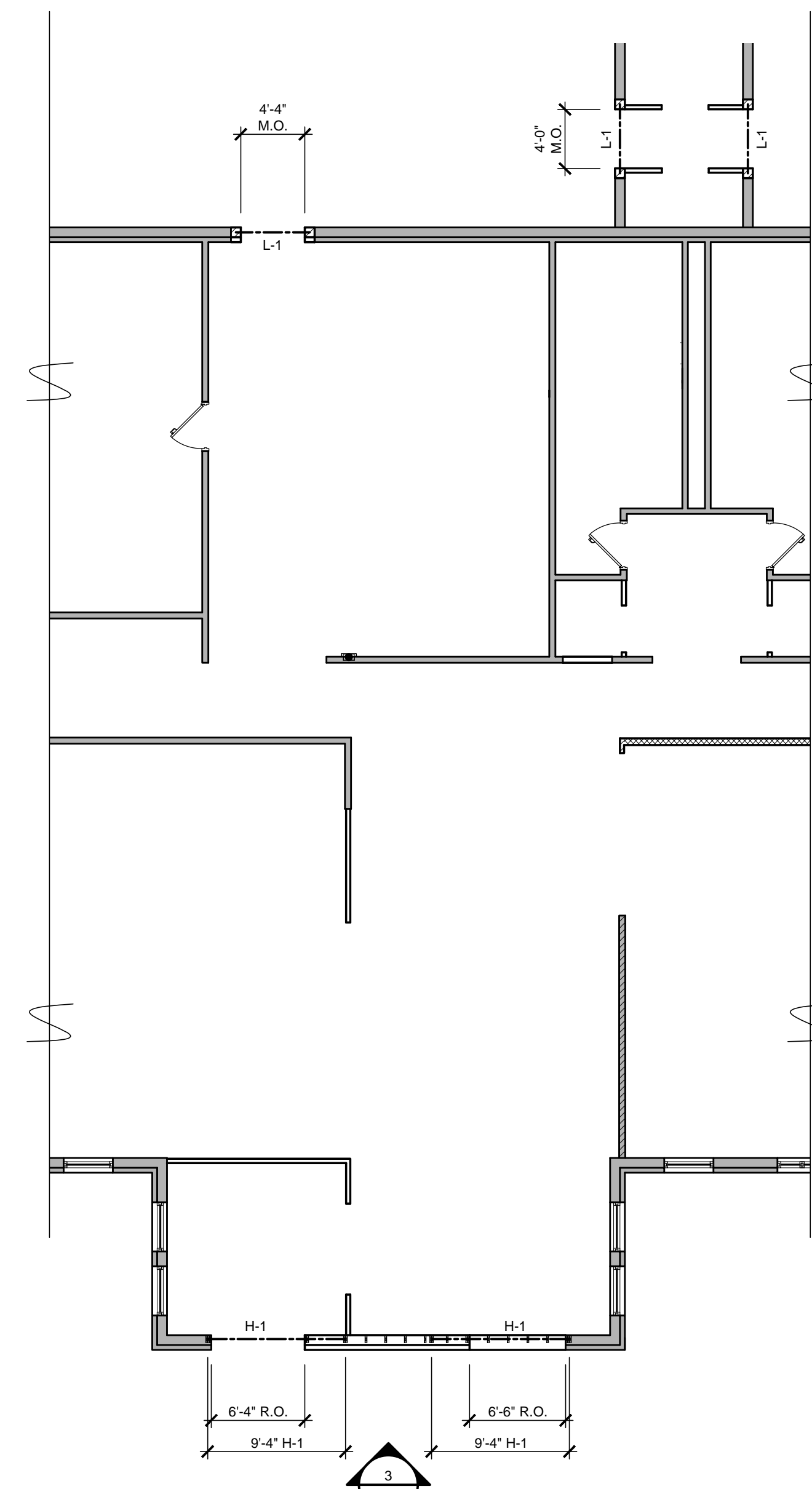
OPENING HEAD DETAIL

JAMB @ EXISTING CMU WALL DETAIL

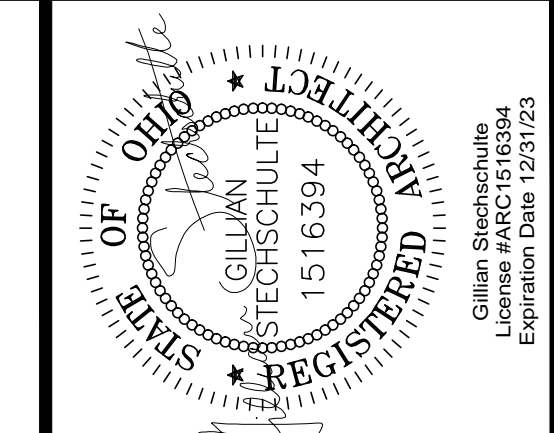
2 LINTEL L-1 DETAILS
S101 SCALE: N.T.S.



4 TYP. EXTERIOR BEARING WALL HEADER DETAIL
S101 SCALE: N.T.S.



1 HEADER/LINTEL PLAN
S101 SCALE: 1/8"=1'-0"



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BUILDING RENOVATIONS
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 1270 FLAGSHIP DRIVE
 PERRYSBURG, OH 43551

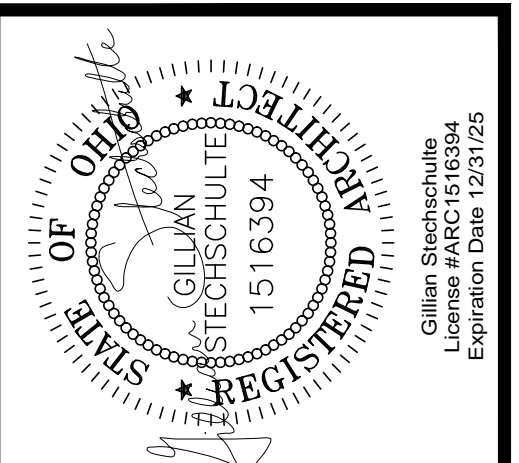
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HEADER/LINTEL PLAN
 HEADER/LINTEL SCHEDULE
 FOUNDATION PLAN
 FOUNDATION DETAIL

ISSUED DATE
 11-21-23 BIDDING & PERMITS
 01-09-24 PERMITS

DRAWN BY: ANP
 DATE: 08-23
 PLOT SCALE: 1:1
 JOB NO. 45-2902-23
 SHEET S101



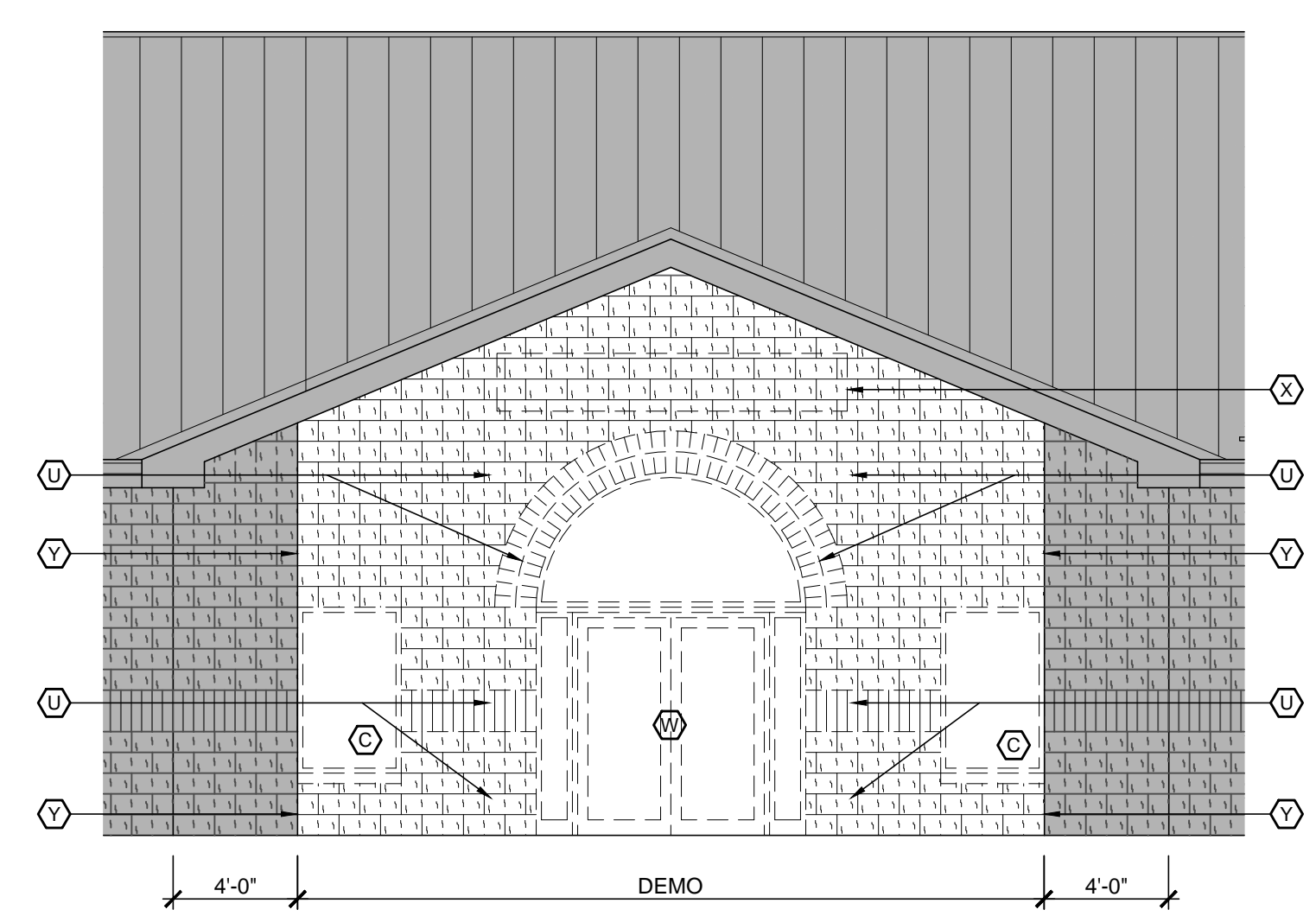
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GENERAL DEMOLITION NOTES

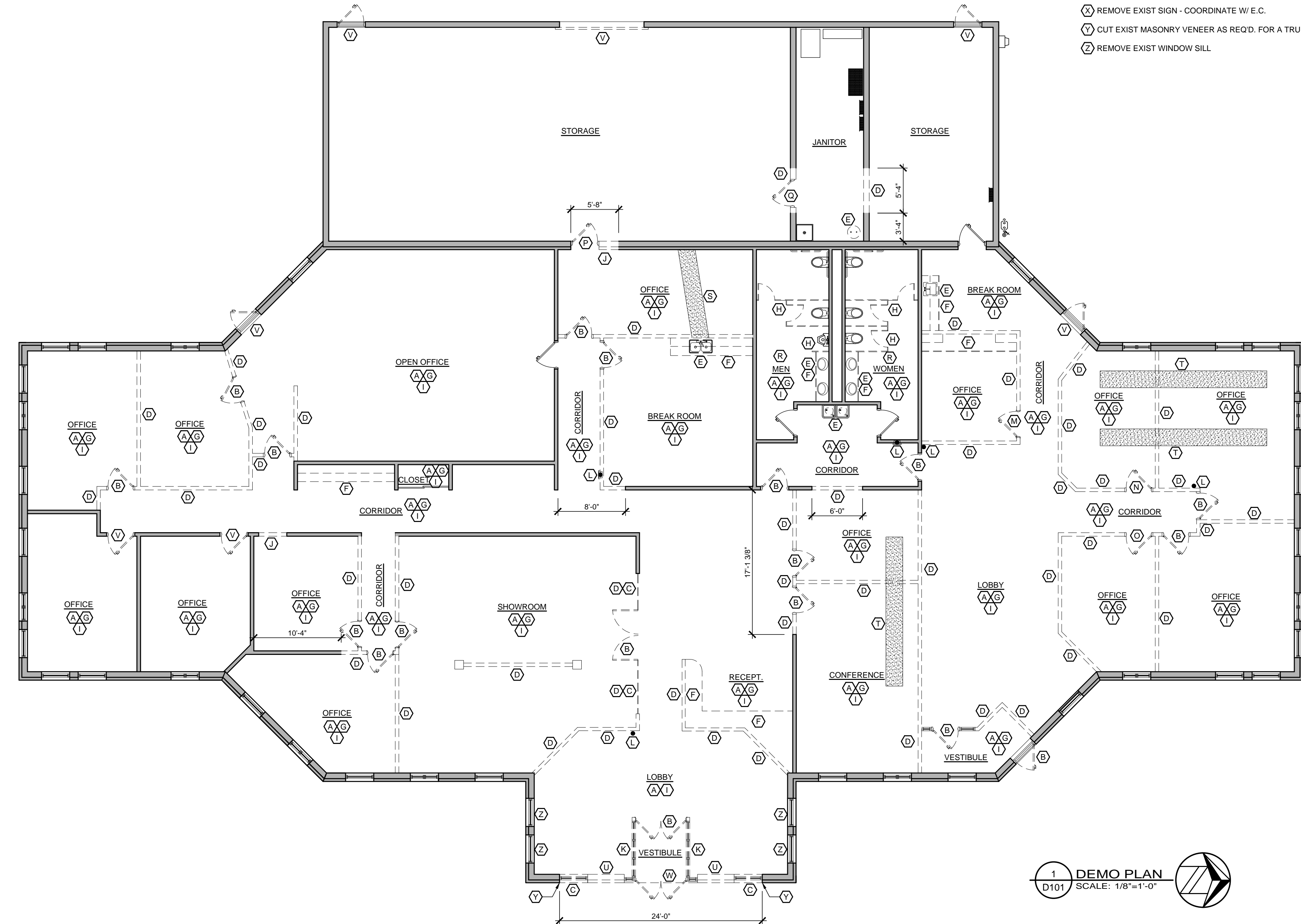
- ALL CONTRACTORS SHALL BE RESPONSIBLE FOR THE PROTECTION OF SURROUNDING ADJACENT OR ATTACHED COMPONENTS & MATERIALS DURING DEMOLITION.
- ALL CONTRACTORS SHALL FIELD VERIFY ALL EXISTING CONDITIONS & UTILITY LOCATIONS PRIOR TO BEGINNING WORK. IN THE EVENT OF CONFLICTS, CONTRACTOR SHALL SEEK RESOLUTION FROM ARCHITECT PRIOR TO BEGINNING WORK.
- THE OWNER SHALL RETAIN RIGHTS OF OWNERSHIP FOR ALL SALVAGED MATERIALS & EQUIPMENT REMOVED. SALVAGED ITEMS SHALL BE RELOCATED OR PLACED IN STORAGE AS DIRECTED BY THE OWNER. NON-SALVAGEABLE MATERIALS SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF BY THE CONTRACTOR.
- WHERE EXISTING WALLS, CEILINGS, FLOORS, ETC. TO REMAIN ARE DAMAGED DURING DEMOLITION & CONSTRUCTION, THE G.C. SHALL PATCH & REPAIR EXISTING DAMAGED SURFACES TO MATCH EXISTING ADJACENT SURFACE MATERIALS, INCLUDING LOCATIONS WHERE PLUMBING, MECHANICAL & ELECTRICAL ARE REMOVED. SEE PLUMB., MECH. & ELEC. DWGS. FOR LOCATIONS.
- FIELD VERIFY LOCATIONS OF EXISTING ELEC. PANELS.
- REFER TO PLUMB., MECHANICAL & ELECTRICAL DWGS. FOR FURTHER DEMOLITION WORK PERFORMED BY P.C., M.C. & E.C. THE G.C. SHALL PERFORM ANY REQ'D. PATCHING & REPAIRS AS INDICATED UNDER GENERAL NOTE #4.
- THE G.C. SHALL PROVIDE ALL NECESSARY SHORING REQ'D. FOR SUPPORT OF WALLS, CEILINGS, FLOORS & OTHER STRUCTURAL MEMBERS DURING DEMOLITION. SHORING SHALL BE LEFT IN PLACE UNTIL NEW WORK IS IN PLACE.
- SAW CUTTING & REMOVAL OF CONCRETE FLOORS AS REQ'D. FOR INSTALLATION OF NEW UNDER SLAB UTILITIES SHALL BE BY THE G.C. U.N.O. ALL TRENCHING & BACKFILL SHALL BE BY THE P.C., M.C. OR E.C. RESPECTIVELY. THE G.C. SHALL PATCH & REPAIR ALL CONCRETE. COORDINATE WORK BETWEEN TRADES. SEE DEMOLITION & MEP DWGS.
- REMOVAL OF FLOOR COVERINGS, SUBSTRATES (IF ANY), ETC. SHALL BE TO THE EXIST. CONCRETE FLOOR, INCLUDING THE REMOVAL OF EXIST. MASTIC.
- IN LOCATIONS WHERE THE EXIST WALL PARTITIONS ARE BEING REMOVED TO ALLOW FOR A NEW DOOR OR WINDOW ROUGH OPENING, THE CONTRACTOR SHALL INSTALL HEADER & JAMB FRAMING TO ALLOW FOR THE NEW OR RE-LOCATED DOORS, WINDOWS, WALL OPENINGS, ETC.

DEMOLITION KEYNOTE LEGEND

- (A) REMOVE EXIST FLOOR COVERING & BASE.
- (B) REMOVE EXIST DOOR & FRAME.
- (C) REMOVE EXIST WINDOW.
- (D) REMOVE EXIST INTERIOR WALL.
- (E) REMOVE EXIST PLUMBING FIXTURES - SEE PLUMBING DRAWINGS
- (F) REMOVE EXIST CASEWORK
- (G) REMOVE EXIST CEILING TILES & GRID
- (H) REMOVE EXIST TOILET/URINAL PARTITIONS
- (I) REMOVE EXIST LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
- (J) REMOVE EXIST WALL TO ALLOW FOR NEW DOOR OPENING
- (K) REMOVE GLASS BLOCK WALLS W/ ALUMINUM WINDOWS
- (L) REMOVE EXIST FIRE EXTINGUISHER
- (M) REMOVE EXIST DOOR & FRAME. RETAIN DOOR TO BE RE-USED AT LOCATION DOOR 111.
- (N) REMOVE EXIST DOOR & FRAME. RETAIN DOOR TO BE RE-USED AT LOCATION DOOR 114.
- (O) REMOVE EXIST DOOR & FRAME. RETAIN DOOR TO BE RE-USED AT LOCATION DOOR 123.
- (P) REMOVE EXIST DOOR & FRAME. RETAIN DOOR TO BE RE-USED AT LOCATION DOOR 126.
- (Q) REMOVE EXIST DOOR & FRAME. RETAIN DOOR TO BE RE-USED AT LOCATION DOOR 127.
- (R) REMOVE RESTROOM ACCESSORIES; SOAP DISPENSERS, TOILET PAPER DISPENSERS, GRAB BARS. RETAIN PAPER TOWEL DISPENSERS & MIRRORS TO BE RE-INSTALLED - CLEAN.
- (S) G.C. TO SAW CUT EXIST. CONC. FLOOR FOR NEW PLUMBING TO BE INSTALLED BY P.C. COORDINATE LOCATION WITH P.C. - SEE DETAILS 6&7/A201 FOR PATCHING OF FLOOR
- (T) G.C. TO SAW CUT EXIST. CONC. FLOOR FOR NEW ELECTRICAL TO BE INSTALLED BY E.C. COORDINATE LOCATION WITH E.C. - SEE DETAILS 6&7/A201 FOR PATCHING OF FLOOR
- (U) DEMO EXIST MASONRY VENEER, TIES & EXTERIOR SHEATHING AS REQ'D. EXIST WALL FRAMING TO REMAIN. RETAIN MASONRY THAT IS BEING REMOVED TO BE RE-INSTALLED @ NEW LOCATION - CLEAN
- (V) REMOVE EXIST DOOR, FRAME TO REMAIN - CLEAN & PAINT
- (W) REMOVE EXIST DOOR, FRAME, SIDELIGHTS & TRANSOM.
- (X) REMOVE EXIST SIGN - COORDINATE W/ E.C.
- (Y) CUT EXIST MASONRY VENEER AS REQ'D. FOR A TRUE FINISHED VERTICAL LINE
- (Z) REMOVE EXIST WINDOW SILL



2 EAST ELEVATION DEMO
 D101 SCALE: 3/16"=1'-0"



1 DEMO PLAN
 D101 SCALE: 1/8"=1'-0"

BUILDING RENOVATIONS
PERRY PROTECH
 1270 FLAGSHIP DRIVE
 PERRYSBURG, OH 43551

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DEMO PLAN & EAST ELEVATION DEMO

ISSUED DATE
 11-21-23 BIDDING & PERMITS
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DRAWN BY: ANP

DATE: 08-23

PLOT SCALE: 1:1

JOB NO. 45-2902-23

SHEET
 D101

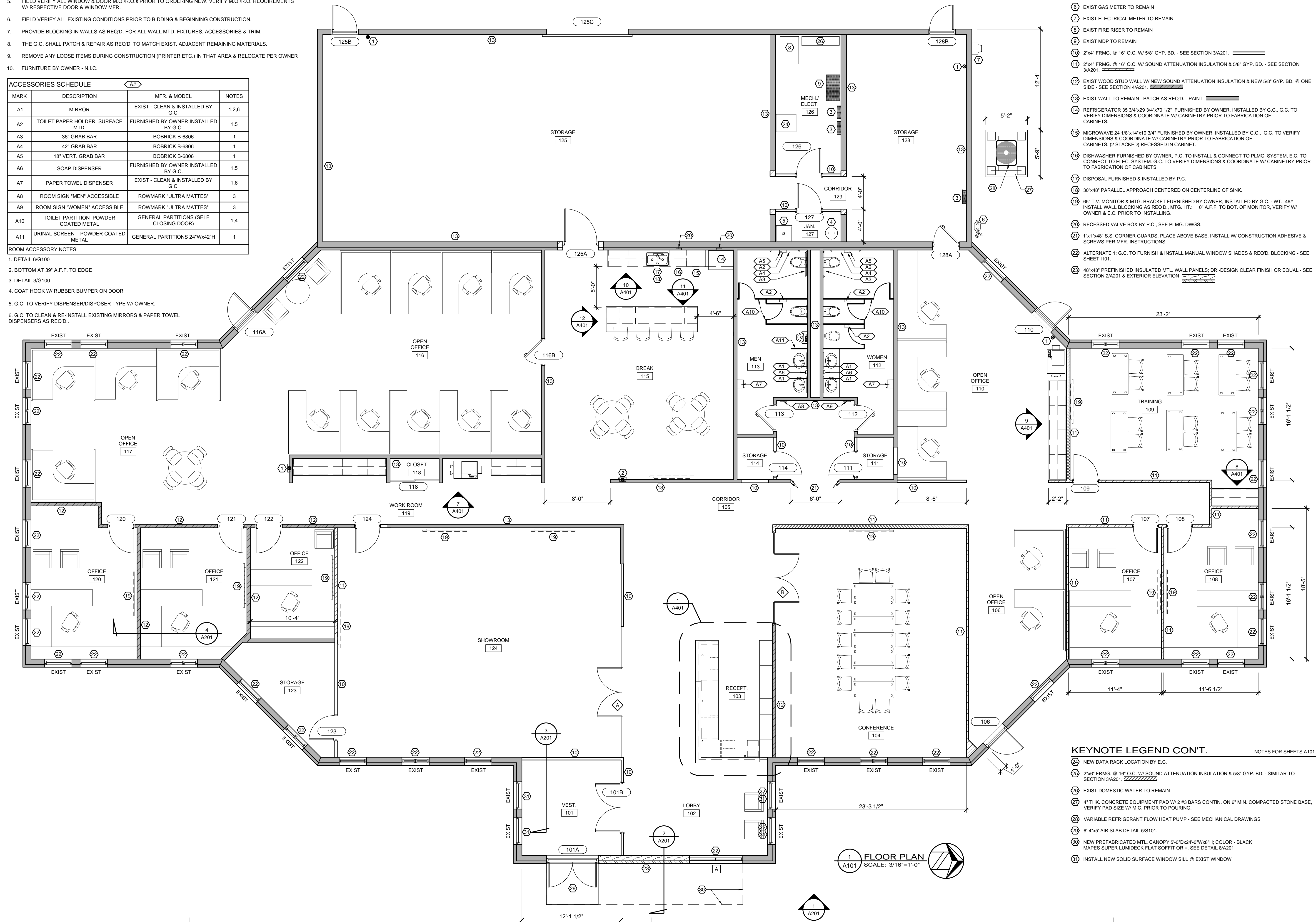
GENERAL NOTES

- DIMENSIONS INDICATED ARE FROM THE FACE OF EXISTING WALL SURFACES. FACE OF NEW STUDS, COLUMN CENTERLINE & FACE OF NOMINAL MASONRY. ALL DIMENSIONS INDICATED SHALL BE FIELD VERIFIED.
- NEW INTERIOR PARTITIONS SHALL BE 2"x4" WOOD STUDS, W/ 5/8" GYP. BD., U.N.O.
- ALL CONTRACTORS SHALL COORDINATE WORK BETWEEN TRADES.
- PROVIDE FIRE STOPPING IN STUD WALLS AT WALL/CEILING OR SOFFIT/CEILING JUNCTURES. BLOCKING MAY BE WOOD, METAL OR FIBERGLASS BATT INSULATION - DETAIL 5/A201
- FIELD VERIFY ALL WINDOW & DOOR M.O.R.O.s PRIOR TO ORDERING NEW. VERIFY M.O.R.O. REQUIREMENTS W/ RESPECTIVE DOOR & WINDOW MFR.
- FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING & BEGINNING CONSTRUCTION.
- PROVIDE BLOCKING IN WALLS AS REQD. FOR ALL WALL MTD. FIXTURES, ACCESSORIES & TRIM.
- THE G.C. SHALL PATCH & REPAIR AS REQD. TO MATCH EXIST. ADJACENT REMAINING MATERIALS.
- REMOVE ANY LOOSE ITEMS DURING CONSTRUCTION (PRINTER ETC) IN THAT AREA & RELOCATE PER OWNER
- FURNITURE BY OWNER - N.I.C.

MARK	DESCRIPTION	MFR. & MODEL	NOTES
A1	MIRROR	EXIST - CLEAN & INSTALLED BY G.C.	1,2,6
A2	TOILET PAPER HOLDER SURFACE MTD.	FURNISHED BY OWNER INSTALLED BY G.C.	1,5
A3	36" GRAB BAR	BOBRICK B-6806	1
A4	42" GRAB BAR	BOBRICK B-6806	1
A5	18" VERT. GRAB BAR	BOBRICK B-6806	1
A6	SOAP DISPENSER	FURNISHED BY OWNER INSTALLED BY G.C.	1,5
A7	PAPER TOWEL DISPENSER	EXIST - CLEAN & INSTALLED BY G.C.	1,6
A8	ROOM SIGN 'MEN' ACCESSIBLE	ROWMARK 'ULTRA MATTES'	3
A9	ROOM SIGN 'WOMEN' ACCESSIBLE	ROWMARK 'ULTRA MATTES'	3
A10	TOILET PARTITION POWDER COATED METAL	GENERAL PARTITIONS (SELF CLOSING DOOR)	1,4
A11	URINAL SCREEN POWDER COATED METAL	GENERAL PARTITIONS 24"Wx42"H	1

ROOM ACCESSORY NOTES:

- DETAIL 6/G100
- BOTTOM AT 39" A.F.F. TO EDGE
- DETAIL 3/G100
- COAT HOOK W/ RUBBER BUMPER ON DOOR
- G.C. TO VERIFY DISPENSER/DISPOSER TYPE W/ OWNER.
- G.C. TO CLEAN & RE-INSTALL EXISTING MIRRORS & PAPER TOWEL DISPENSERS AS REQD.

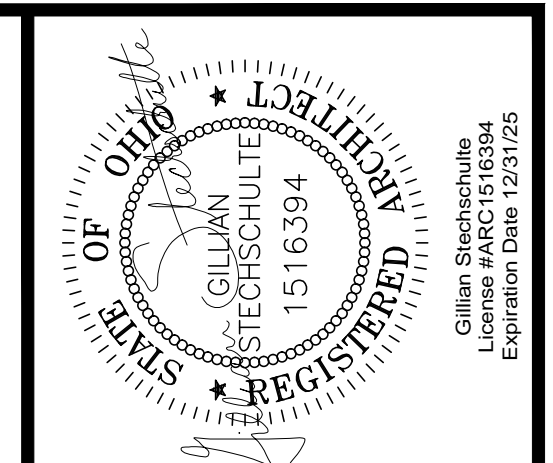


KEYNOTE LEGEND

- NOTES FOR SHEETS A101
- EXIST FIRE EXTINGUISHER LOCATION; INSTALL NEW FIRE EXTINGUISHER.
 - NEW SEMI-RECESSED FIRE EXTINGUISHER CABINET - SEE DETAIL 2/G100
 - EXIST ELECTRICAL PANEL - SEE ELECTRICAL DRAWINGS
 - NEW WATER HEATER - SEE MECHANICAL DRAWINGS
 - EXISTING SERVICE SINK
 - EXIST GAS METER TO REMAIN
 - EXIST ELECTRICAL METER TO REMAIN
 - EXIST FIRE RISER TO REMAIN
 - EXIST MDP TO REMAIN
 - 2"x4" FRMG. @ 16" O.C. W/ 5/8" GYP. BD. - SEE SECTION 3/A201.
 - 2"x4" FRMG. @ 16" O.C. W/ SOUND ATTENUATION INSULATION & 5/8" GYP. BD. - SEE SECTION 3/A201.
 - EXIST WOOD STUD WALL W/ NEW SOUND ATTENUATION INSULATION & NEW 5/8" GYP. BD. @ ONE SIDE - SEE SECTION 4/A201.
 - EXIST WALL TO REMAIN - PATCH AS REQD. - PAINT
 - REFRIGERATOR 35 3/4"x29 3/4"x70 1/2". FURNISHED BY OWNER. INSTALLED BY G.C. G.C. TO VERIFY DIMENSIONS & COORDINATE W/ CABINETRY PRIOR TO FABRICATION OF CABINETS.
 - MICROWAVE 24 1/8"x14 1/4"x19 3/4" FURNISHED BY OWNER. INSTALLED BY G.C. G.C. TO VERIFY DIMENSIONS & COORDINATE W/ CABINETRY PRIOR TO FABRICATION OF CABINETS. (2 STACKED) RECESSED IN CABINET.
 - DISHWASHER FURNISHED BY OWNER. P.C. TO INSTALL & CONNECT TO PLMG. SYSTEM. E.C. TO CONNECT TO ELEC. SYSTEM. G.C. TO VERIFY DIMENSIONS & COORDINATE W/ CABINETRY PRIOR TO FABRICATION OF CABINETS.
 - DISPOSAL FURNISHED & INSTALLED BY P.C.
 - 30"x48" PARALLEL APPROACH CENTERED ON CENTERLINE OF SINK.
 - 65" T.V. MONITOR & MTG. BRACKET FURNISHED BY OWNER. INSTALLED BY G.C. - WT. 46# INSTALL WALL BLOCKING AS REQD. MTG. HT. 1" A.F.F. TO BOT. OF MONITOR. VERIFY W/ OWNER & E.C. PRIOR TO INSTALLING.
 - RECESSED VALVE BOX BY P.C. SEE PLMG. DWGS.
 - 1"x1"x48" S.S. CORNER GUARDS. PLACE ABOVE BASE. INSTALL W/ CONSTRUCTION ADHESIVE & SCREWS PER MFR. INSTRUCTIONS.
 - ALTERNATE 1: G.C. TO FURNISH & INSTALL MANUAL WINDOW SHADES & REQD. BLOCKING - SEE SHEET 1101.
 - 48"x48" PREFINISHED INSULATED MTL. WALL PANELS. DRI-DESIGN CLEAR FINISH OR EQUAL - SEE SECTION 2/A201 & EXTERIOR ELEVATION

KEYNOTE LEGEND CON'T.

- NOTES FOR SHEETS A101
- NEW DATA RACK LOCATION BY E.C.
 - 2"x6" FRMG. @ 16" O.C. W/ SOUND ATTENUATION INSULATION & 5/8" GYP. BD. - SIMILAR TO SECTION 3/A201.
 - EXIST DOMESTIC WATER TO REMAIN
 - 4" THK. CONCRETE EQUIPMENT PAD W/ 2 #3 BARS CONTIN. ON 6" MIN. COMPACTED STONE BASE. VERIFY PAD SIZE W/ M.C. PRIOR TO POURING.
 - VARIABLE REFRIGERANT FLOW HEAT PUMP - SEE MECHANICAL DRAWINGS
 - 6'-4"x5' AIR SLAB DETAIL 5/S101.
 - NEW PREFABRICATED MTL. CANOPY 5'-0"x24'-0"Wx8'H; COLOR - BLACK MAPES SUPER LUMIDECK FLAT SOFFIT OR =. SEE DETAIL 8/A201
 - INSTALL NEW SOLID SURFACE WINDOW SILL @ EXIST WINDOW



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FLOOR PLAN

ISSUED DATE	11-21-23 BIDDING & PERMITS
	01-09-24 PERMITS
DRAWN BY:	ANP
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PLOT SCALE:	1:1
JOB NO.	45-2902-23
SHEET	A101

GENERAL CEILING NOTES

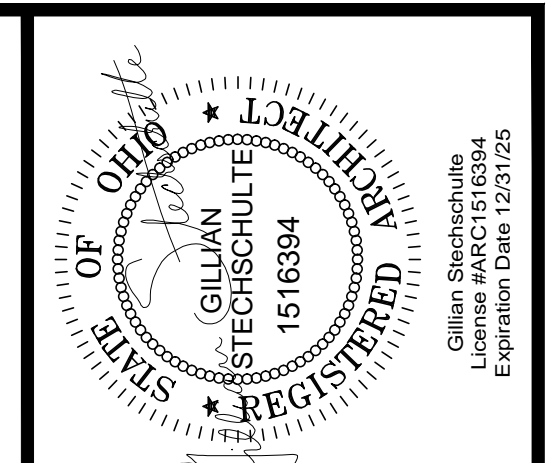
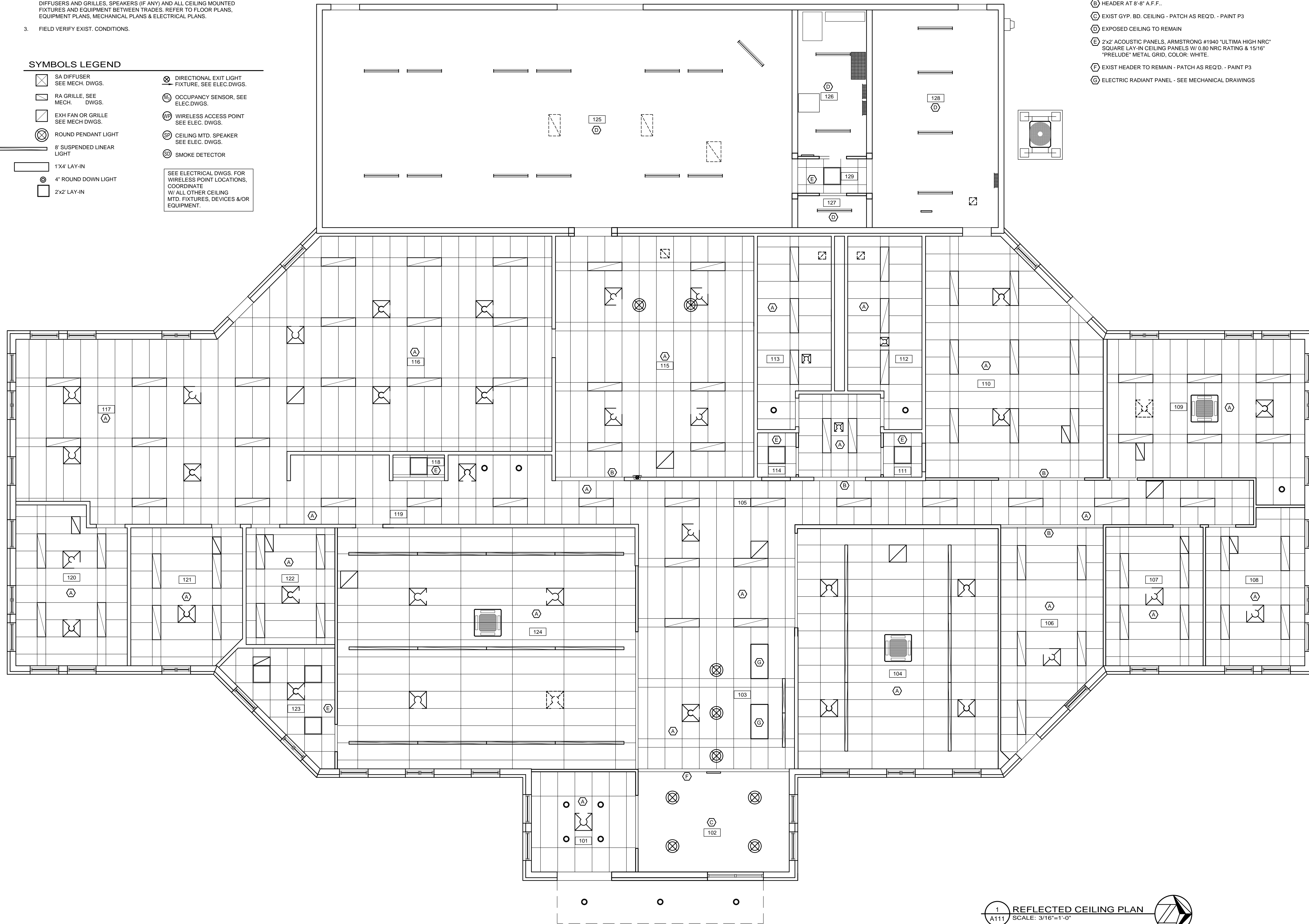
- REFER TO ROOM FINISH SCHEDULE ON SHEET 1101 FOR CEILING HEIGHTS, MATERIALS AND FINISHES, U.N.O.
- COORDINATE LOCATIONS OF CEILING MOUNTED LIGHT FIXTURES, HVAC DIFFUSERS AND GRILLES, SPEAKERS (IF ANY) AND ALL CEILING MOUNTED FIXTURES AND EQUIPMENT BETWEEN TRADES. REFER TO FLOOR PLANS, EQUIPMENT PLANS, MECHANICAL PLANS & ELECTRICAL PLANS.
- FIELD VERIFY EXIST. CONDITIONS.

SYMBOLS LEGEND

- | | | | |
|--|-------------------------------------|--|--|
| | SA DIFFUSER
SEE MECH. DWGS. | | DIRECTIONAL EXIT LIGHT
FIXTURE, SEE ELEC. DWGS. |
| | RA GRILLE, SEE
MECH. DWGS. | | OCCUPANCY SENSOR, SEE
ELEC. DWGS. |
| | EXH FAN OR GRILLE
SEE MECH DWGS. | | WIRELESS ACCESS POINT
SEE ELEC. DWGS. |
| | ROUND PENDANT LIGHT | | CEILING MTD. SPEAKER
SEE ELEC. DWGS. |
| | 8' SUSPENDED LINEAR
LIGHT | | SMOKE DETECTOR |
| | 1'x4' LAY-IN | SEE ELECTRICAL DWGS. FOR
WIRELESS POINT LOCATIONS,
COORDINATE
W/ ALL OTHER CEILING
MTD. FIXTURES, DEVICES &/OR
EQUIPMENT. | |
| | 4' ROUND DOWN LIGHT | | |
| | 2'x2' LAY-IN | | |

KEYNOTE LEGEND

- (A) 2'x6' ACOUSTIC PANELS, ARMSTRONG #1435 "ULTIMA HIGH NRC" SQUARE LAY-IN CEILING PANELS W/ 0.80 NRC RATING & 15/16" "PRELUDE" METAL GRID, COLOR: WHITE.
- (B) HEADER AT 8'-8" A.F.F..
- (C) EXIST GYP. BD. CEILING - PATCH AS REQ'D. - PAINT P3
- (D) EXPOSED CEILING TO REMAIN
- (E) 2'x2' ACOUSTIC PANELS, ARMSTRONG #1940 "ULTIMA HIGH NRC" SQUARE LAY-IN CEILING PANELS W/ 0.80 NRC RATING & 15/16" "PRELUDE" METAL GRID, COLOR: WHITE.
- (F) EXIST HEADER TO REMAIN - PATCH AS REQ'D. - PAINT P3
- (G) ELECTRIC RADIANT PANEL - SEE MECHANICAL DRAWINGS



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REFLECTED CLG PLAN

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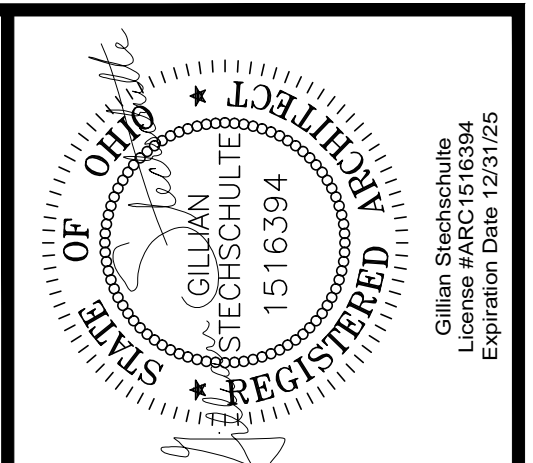
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SHEET
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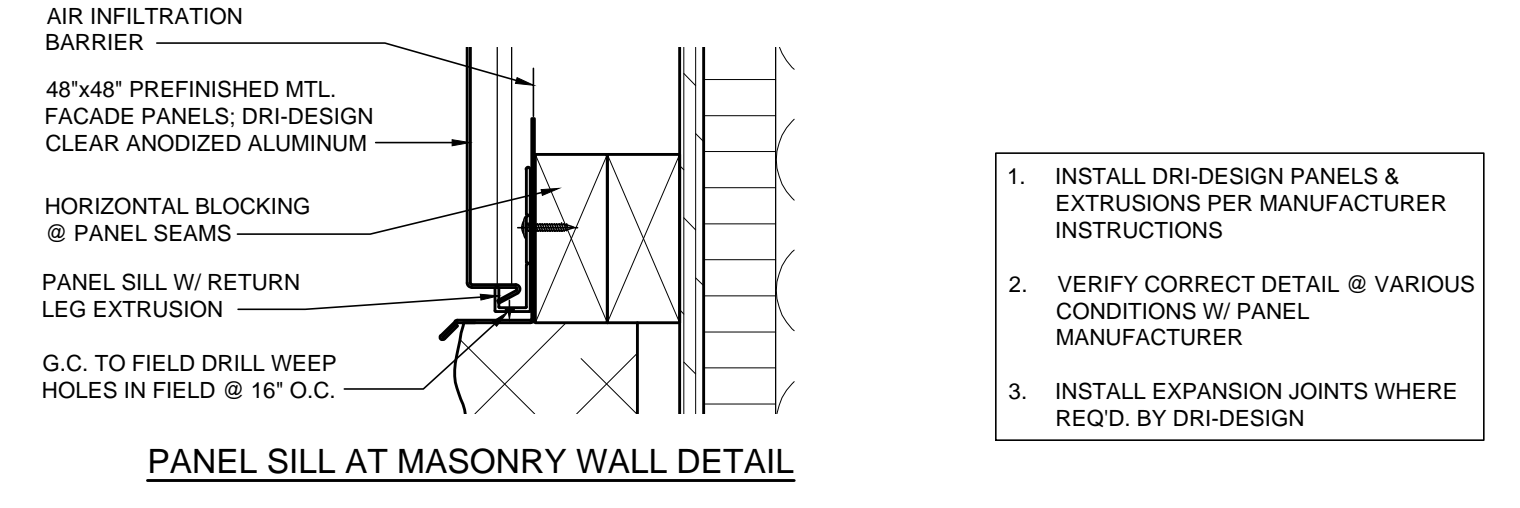
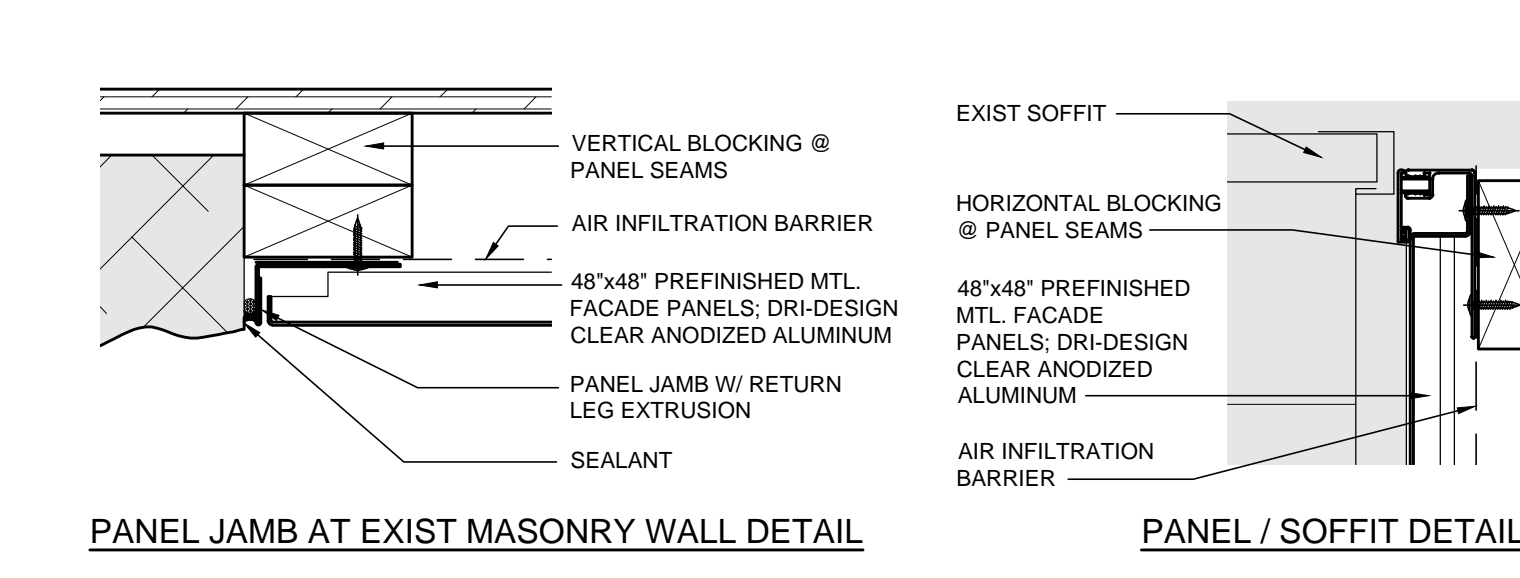
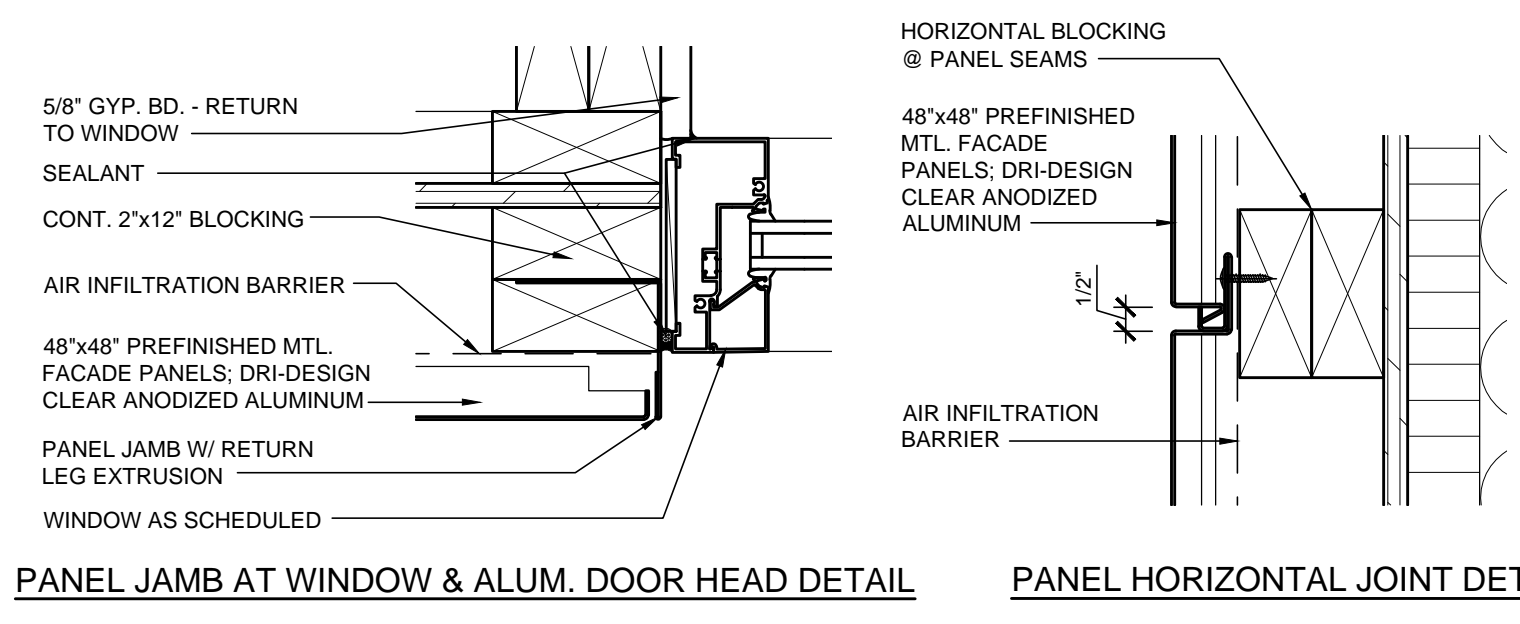
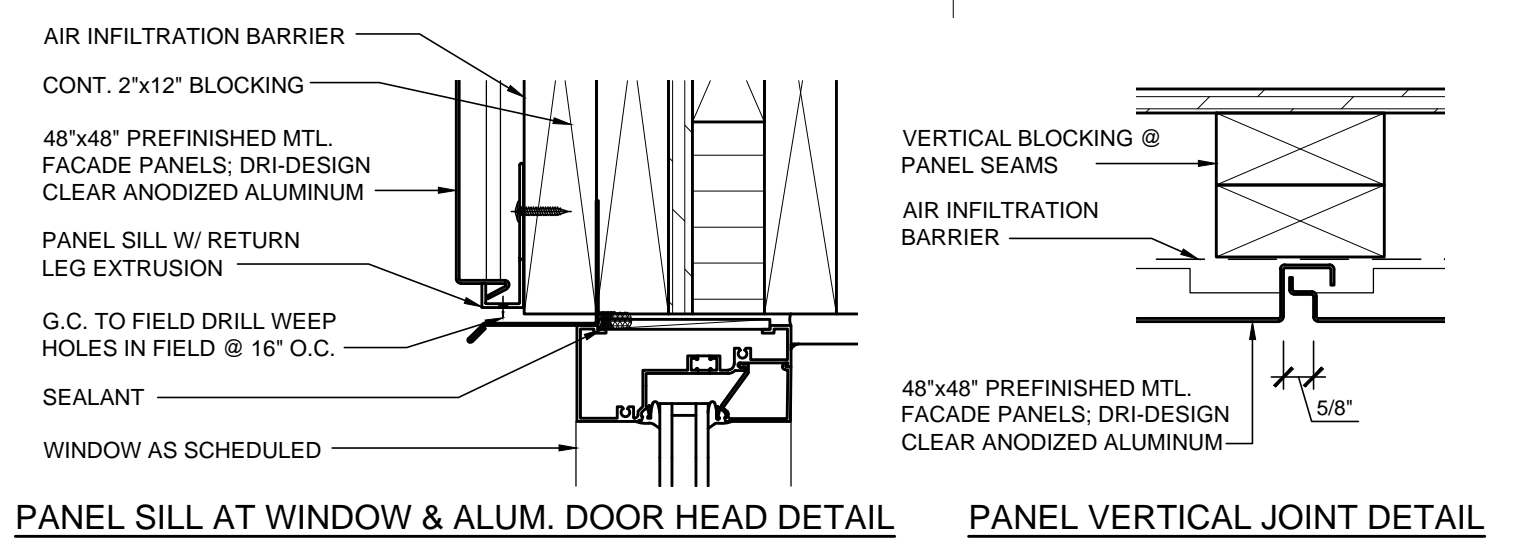
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BUILDING ELEVATION & DETAILS
 ISSUED DATE
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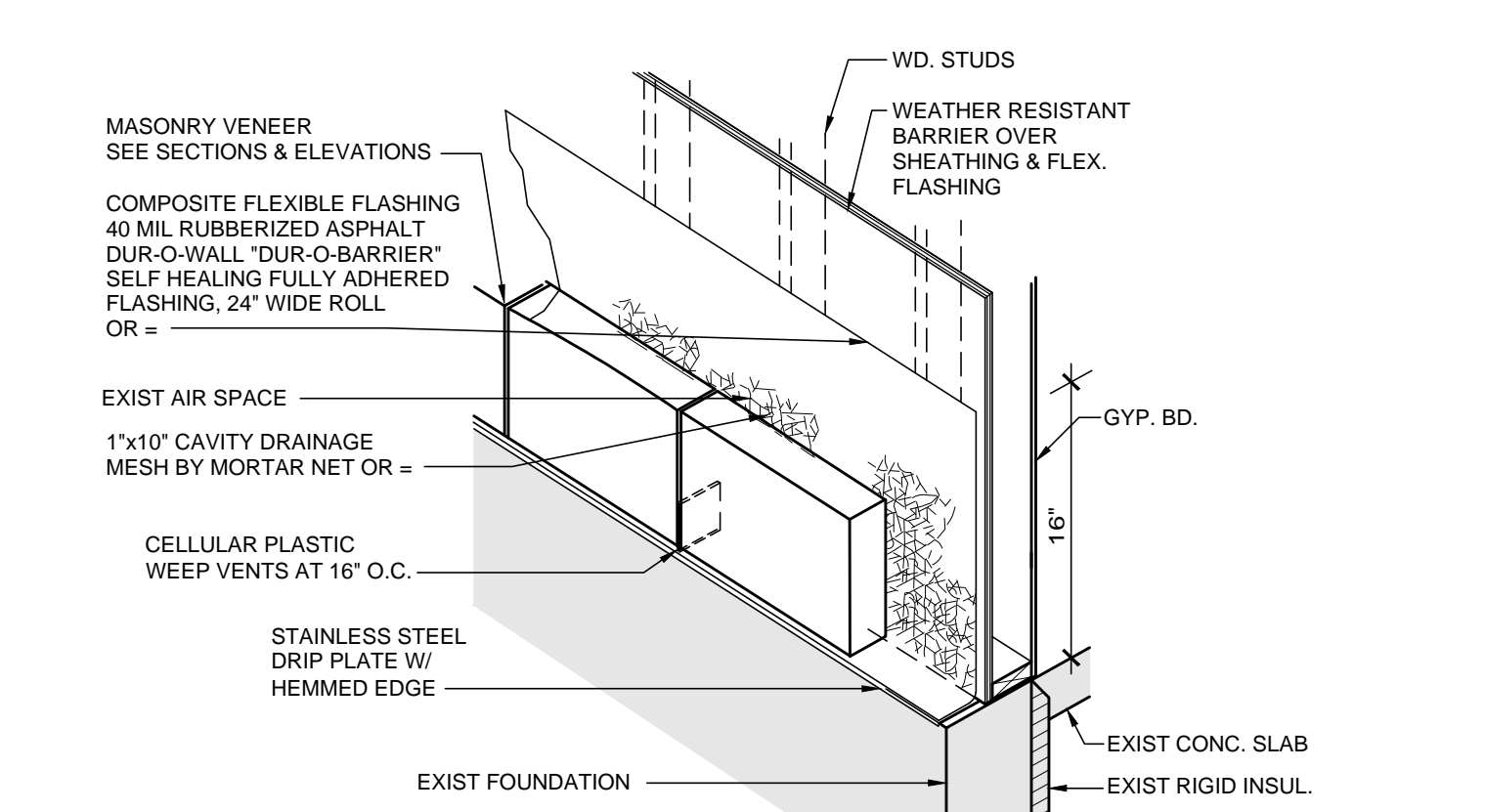
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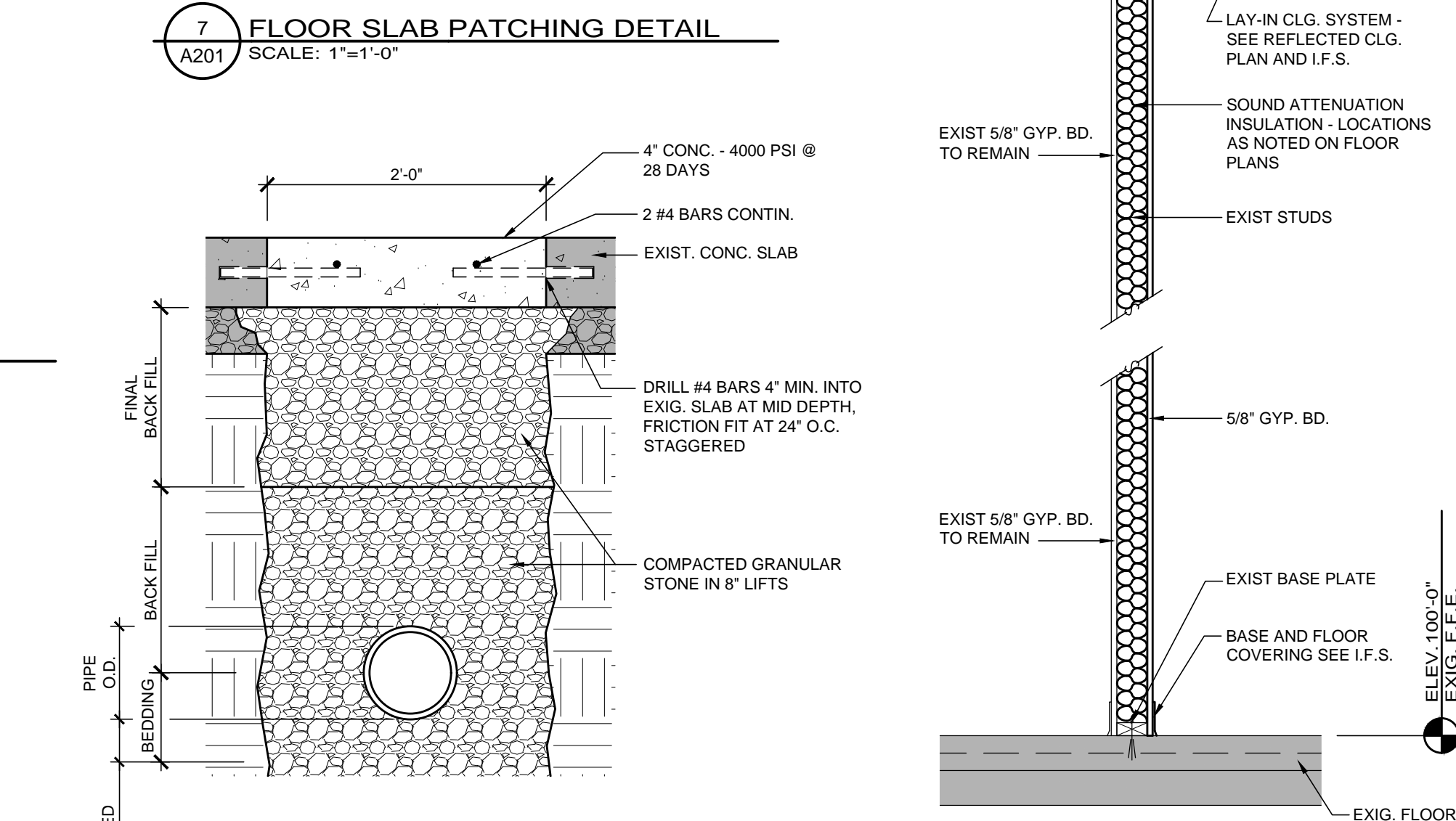
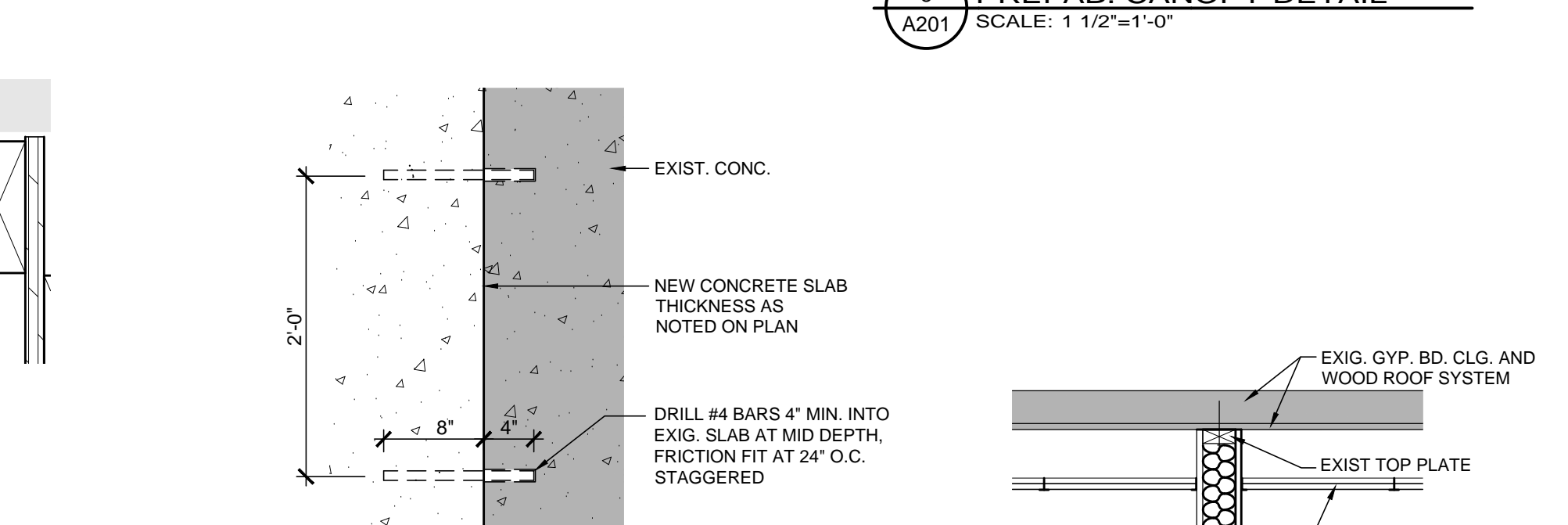
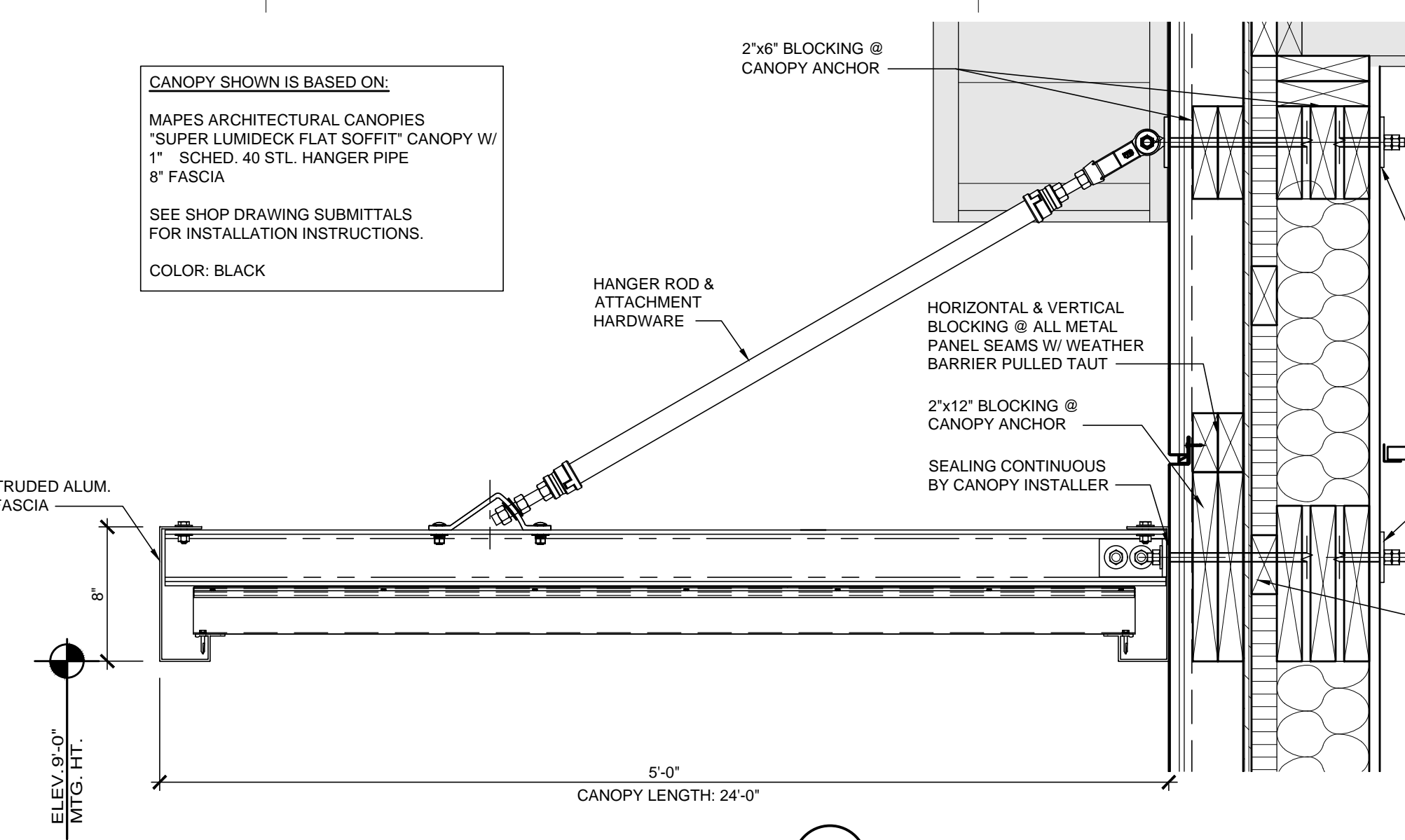
SHEET A201



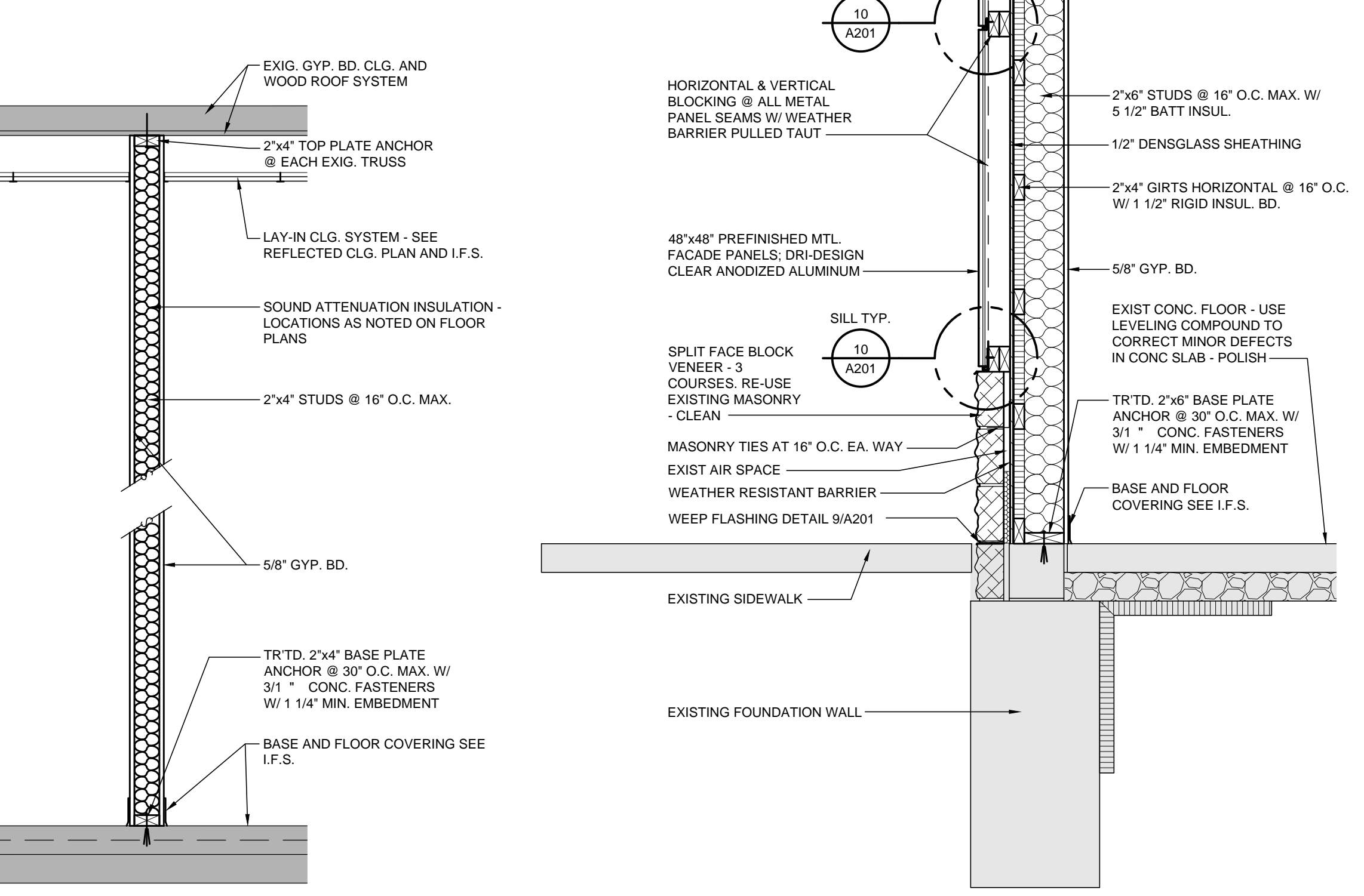
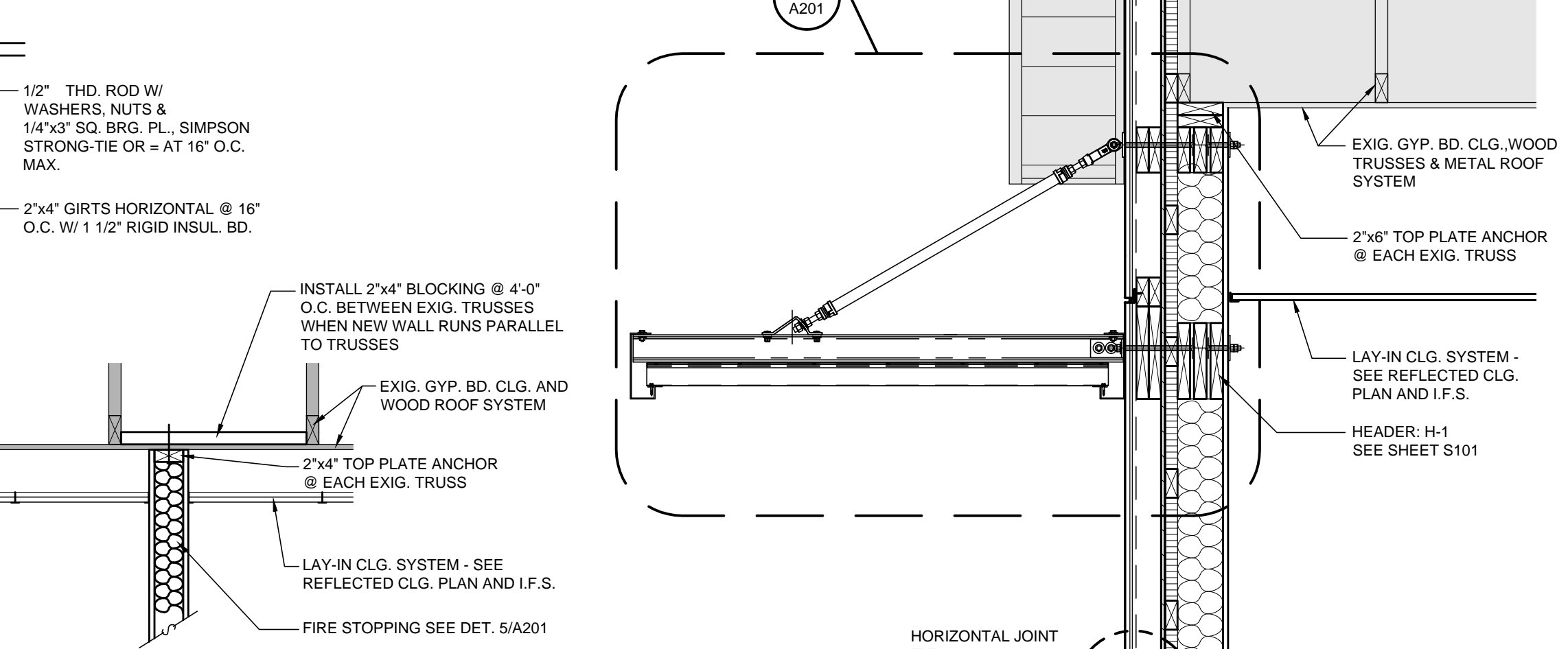
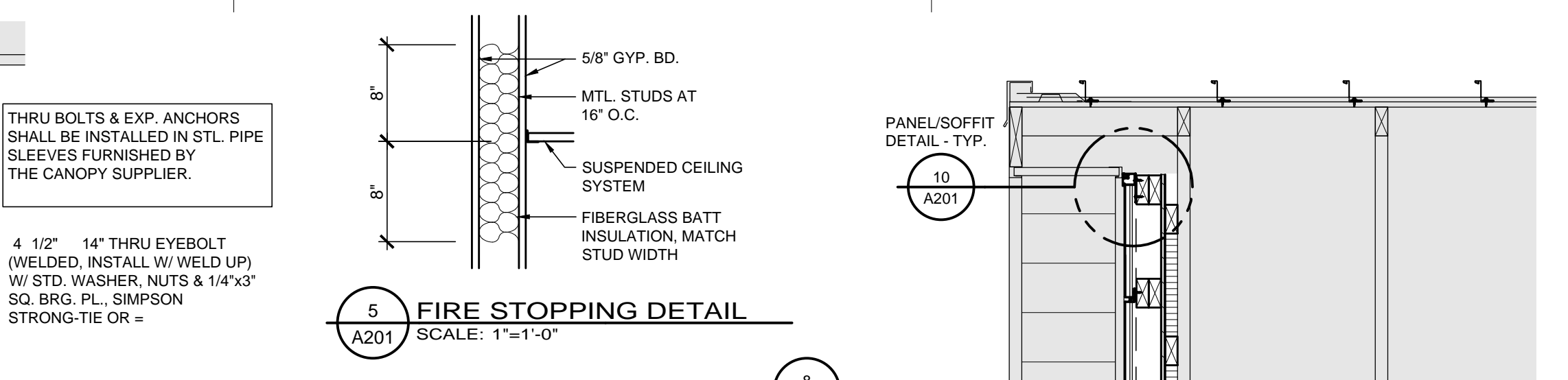
10 TYPICAL DRI-DESIGN ALUMINUM PANEL CONDITIONS DETAIL
 SCALE: 3/4"=1'-0"



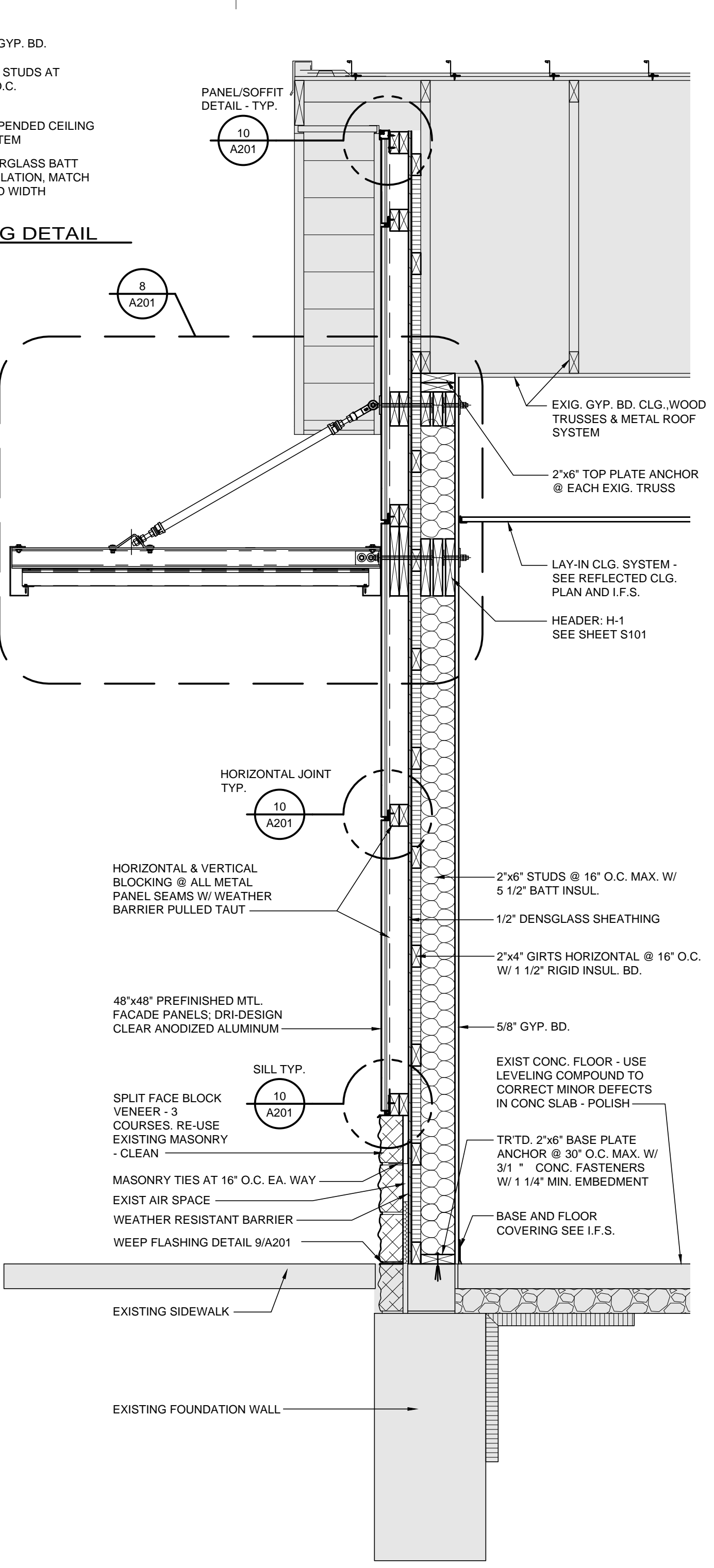
9 WEEP/FLASHING DETAIL
 SCALE: N.T.S.



6 FLOOR SLAB PATCHING/PLUMBING TRENCH DETAIL
 SCALE: 1"=1'-0"

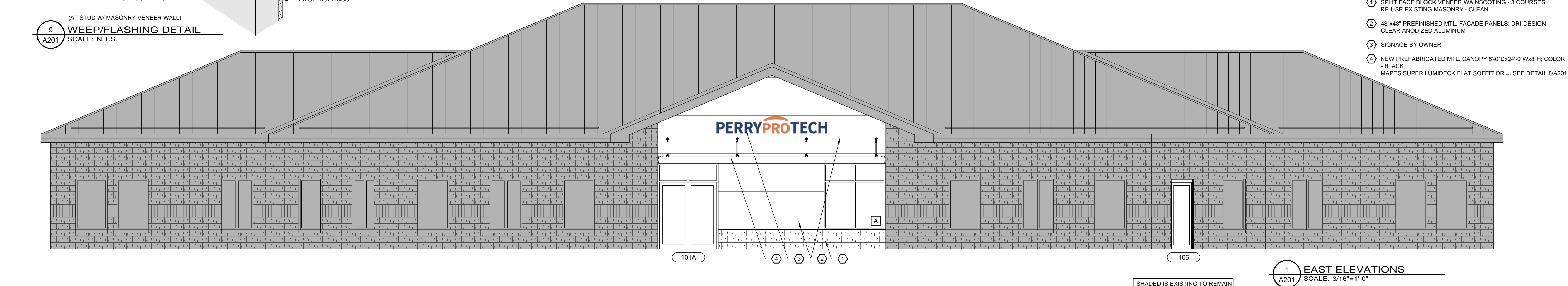


3 TYP. NEW WALL SECTION
 SCALE: 3/4"=1'-0"

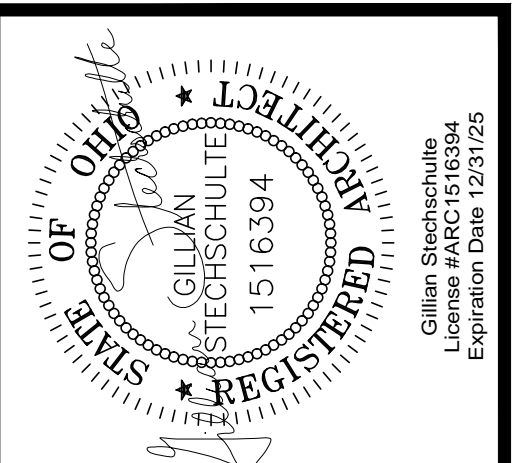


2 WALL SECTION
 SCALE: 3/4"=1'-0"

- ELEVATION KEYNOTE LEGEND**
- ① SPLIT FACE BLOCK VENEER WAJNSCOTING - 3 COURSES. RE-USE EXISTING MASONRY - CLEAN.
 - ② 48"x48" PREFINISHED MTL. FACADE PANELS; DRI-DESIGN CLEAR ANODIZED ALUMINUM
 - ③ SIGNAGE BY OWNER
 - ④ NEW PREFABRICATED MTL. CANOPY 5'-0" Dx 24'-0" Wx 8" H; COLOR - BLACK
 MAPES SUPER LUMIDECK FLAT SOFFIT OR = SEE DETAIL 8/A201



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



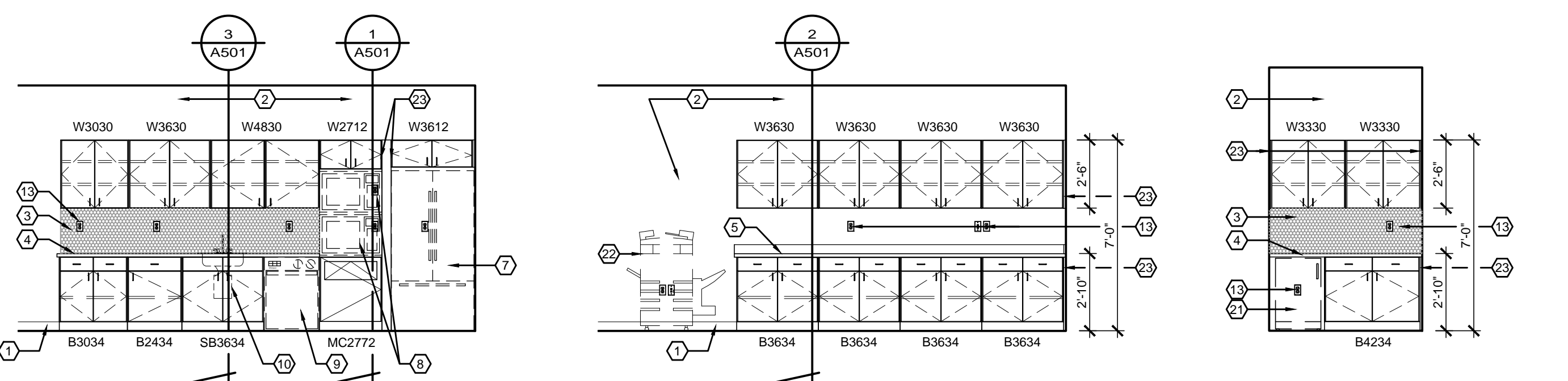
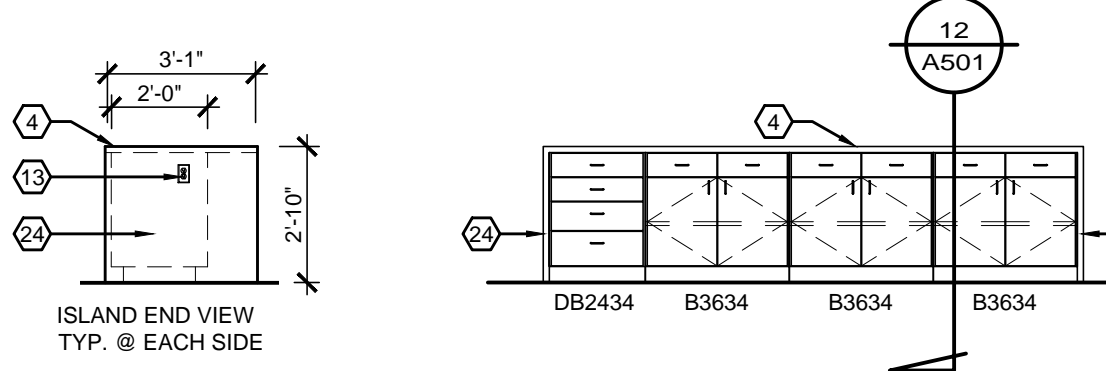
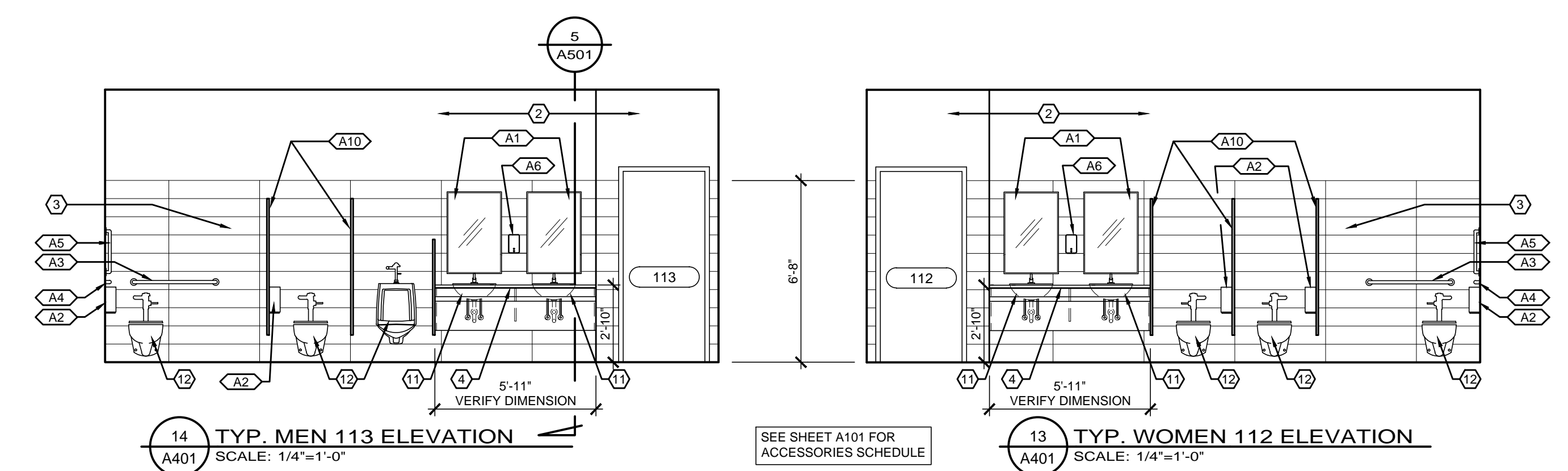
CASEWORK NOTATION LEGEND			
B	=	BASE CABINET	DETAIL 2/A501
DB	=	DRAWER BASE CABINET	DETAIL 7/A501
		4 DRAWER	DETAIL 10/A501
		5 DRAWER	DETAIL 3/A501
SB	=	SINK BASE CABINET	DETAIL 2/A501
W	=	WALL CABINET	DETAIL 4/A501
WM	=	WALL MAIL CABINET	DETAIL 5/A501
SE	=	UNDER SINK ENCLOSURE	DETAIL 1/A501
MC	=	MICROWAVE/WASTE RECEPT. CABINET	DETAIL 1/A501

EXAMPLE:
 CABINET TYPE: DB 16 30
 CABINET WIDTH: 16
 CABINET HEIGHT: 30

SEE CASEWORK DETAILS SHEET A501.

KEYNOTE LEGEND FURNISHED & INSTALLED BY G.C., U.N.O.

- 1 BASE, SEE ROOM FINISH SCHEDULE.
- 2 GYPSUM BOARD, PAINT.
- 3 WALL TILE, SEE ROOM FINISH SCHEDULE.
- 4 SOLID SURFACE, DETAIL 8/A501.
- 5 PLASTIC LAMINATE & MDF, BD. BACKSPLASH, DETAIL 9/A501.
- 6 PREFINISHED MTL. COUNTERTOP SUPPORT BRACKET, A & M HARDWARE, INC. HYBRID WORK STATION BRACKET, COLOR: WHITE.
- 7 REFRIGERATOR 35 3/4"x29 3/4"x70 1/2" FURNISHED BY OWNER, INSTALLED BY G.C. TO VERIFY DIMENSIONS & COORDINATE W/ CABINETS PRIOR TO FABRICATION OF CABINETS.
- 8 MICROWAVE 24 1/8"x14"x19 3/4" FURNISHED BY OWNER, INSTALLED BY G.C., TO VERIFY DIMENSIONS & COORDINATE W/ CABINETS PRIOR TO FABRICATION OF CABINETS. (2 STACKED) RECESSED IN CABINET.
- 9 DISHWASHER FURNISHED BY OWNER, P.C. TO INSTALL & CONNECT TO PLMG. SYSTEM, E.C. TO CONNECT TO ELEC. SYSTEM. G.C. TO VERIFY DIMENSIONS & COORDINATE W/ CABINETS PRIOR TO FABRICATION OF CABINETS.
- 10 DISPOSAL FURNISHED & INSTALLED BY P.C.
- 11 PLUMBING FIXTURE BY P.C., SEE PLUMBING DRAWINGS
- 12 EXIST PLUMBING FIXTURE, SEE PLUMBING DRAWINGS
- 13 ELECTRICAL DEVICE (SWITCH, RECEPTACLE OR DATA/COM) BY E.C., SEE ELECTRICAL DRAWINGS, G.C. & E.C. TO COORDINATE LOCATIONS W/ CASEWORK, ETC.
- 14 SIGNAGE & LETTERS BY OWNER, N.I.C.
- 15 PENCIL DRAWER, HAFELE 429.59.350 BLACK PLASTIC.
- 16 POLYESTER COVERED 1/2" THK. FIBER BD. PANELS, HOMASOTE OR COVER FACE & EDGES W/ FABRIC MEETING ASTM E84 CLASS I OR A FLAMMABILITY REQUIREMENTS, FABRIC BY GUILFORD OF MAINE OR =, SEE ROOM FINISH SCHEDULE MATERIALS LEGEND.
- 17 2" PLASTIC GROMMET AT C TOP, BELOW, COLOR: WHITE
- 18 1/2" DIVIDERS/SUPPORTS W/ PLASTIC LAM. FINISH.
- 19 EDGE PULLS, SEE GENERAL CASEWORK NOTE #4 ABOVE.
- 20 REMOVABLE PANEL
- 21 ADA HT. UNDERCOUNTER REFRIG. BY OWNER - N.I.C.
- 22 PRINTER/COPIER BY OWNER - N.I.C.
- 23 FILLER
- 24 SOLID SURFACE WATERFALL EDGE



12 BREAK 115 ELEVATION SCALE: 1/4"=1'-0"

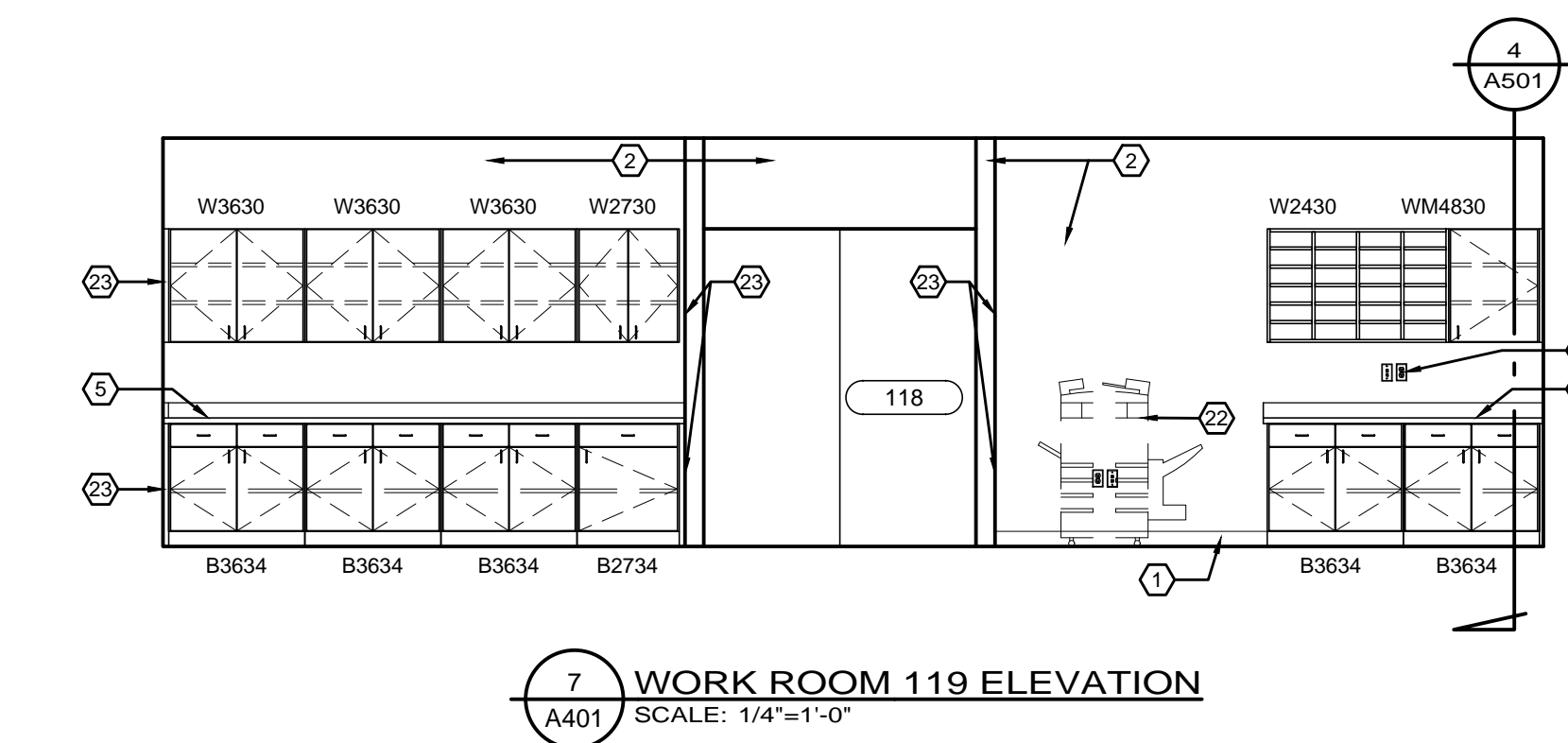
10 BREAK 115 ELEVATION SCALE: 1/4"=1'-0"

9 OPEN OFFICE 110 ELEVATION SCALE: 1/4"=1'-0"

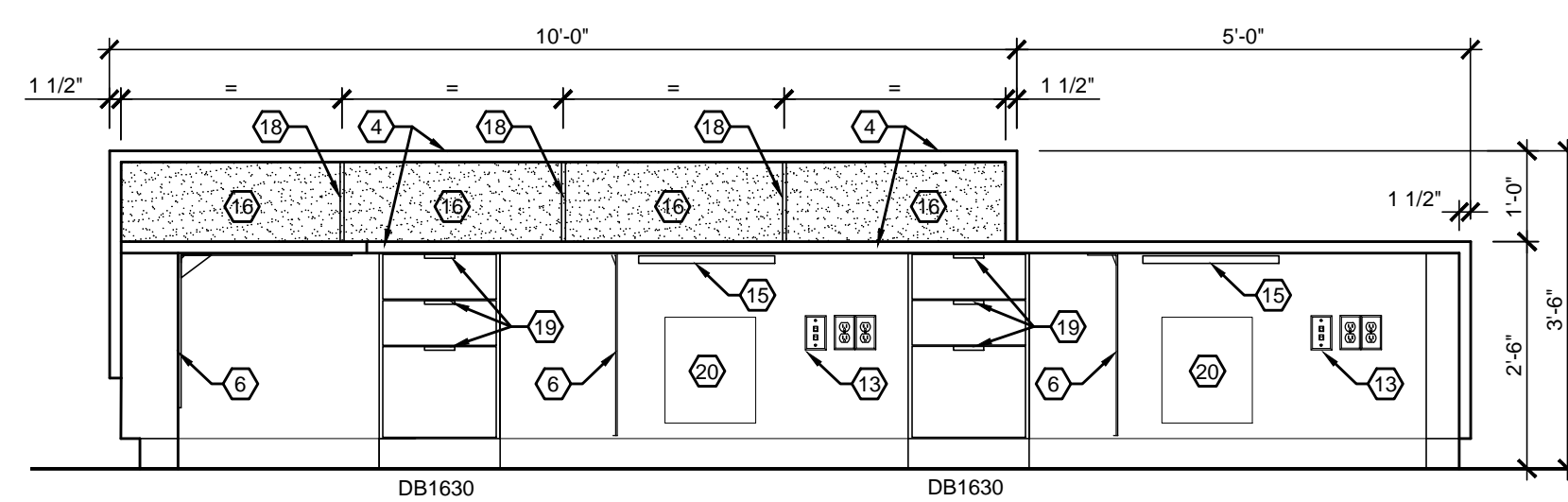
8 TRAINING 109 ELEVATION SCALE: 1/4"=1'-0"

THE CASEWORK FABRICATOR/INSTALLER SHALL FIELD DRILL & CUT HOLES AT CABINET INTERIOR FOR CONDUITS & OPENINGS FOR ELEC. ROUGH-IN BOXES AT CABINET ENDS. COORDINATE ALL WORK W/ E.C.

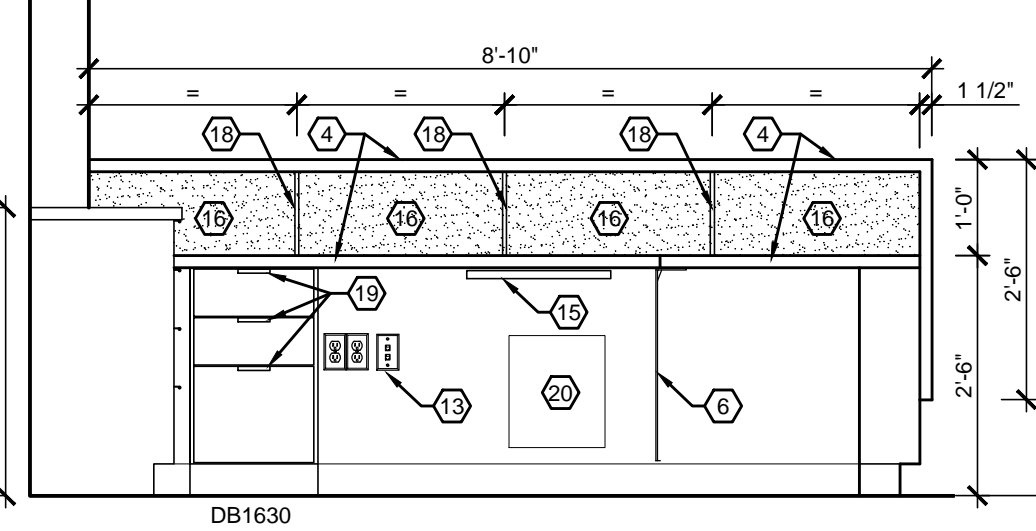
30"x48" PARALLEL APPROACH CENTERED ON CENTERLINE OF SINK.



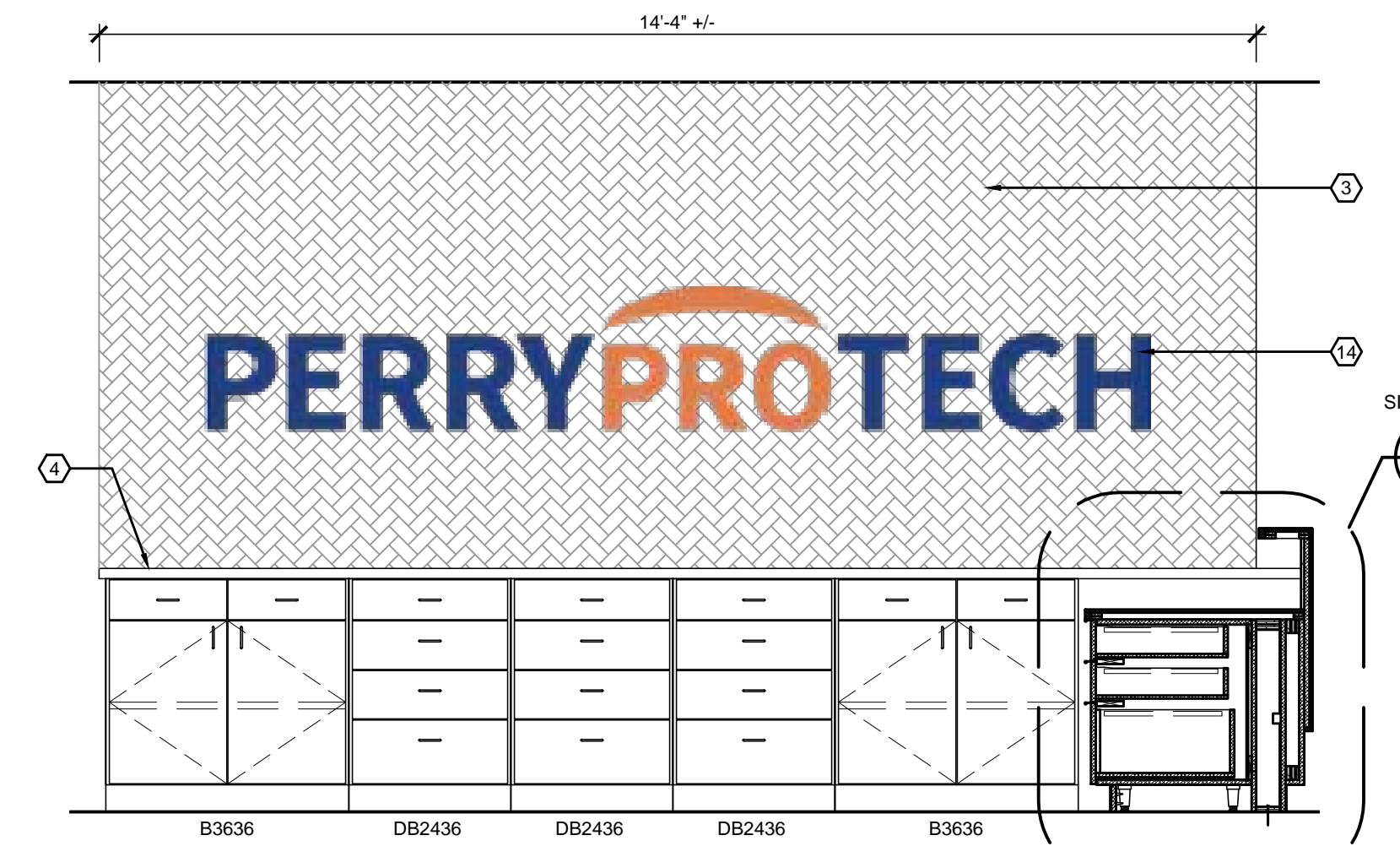
7 WORK ROOM 119 ELEVATION SCALE: 1/4"=1'-0"



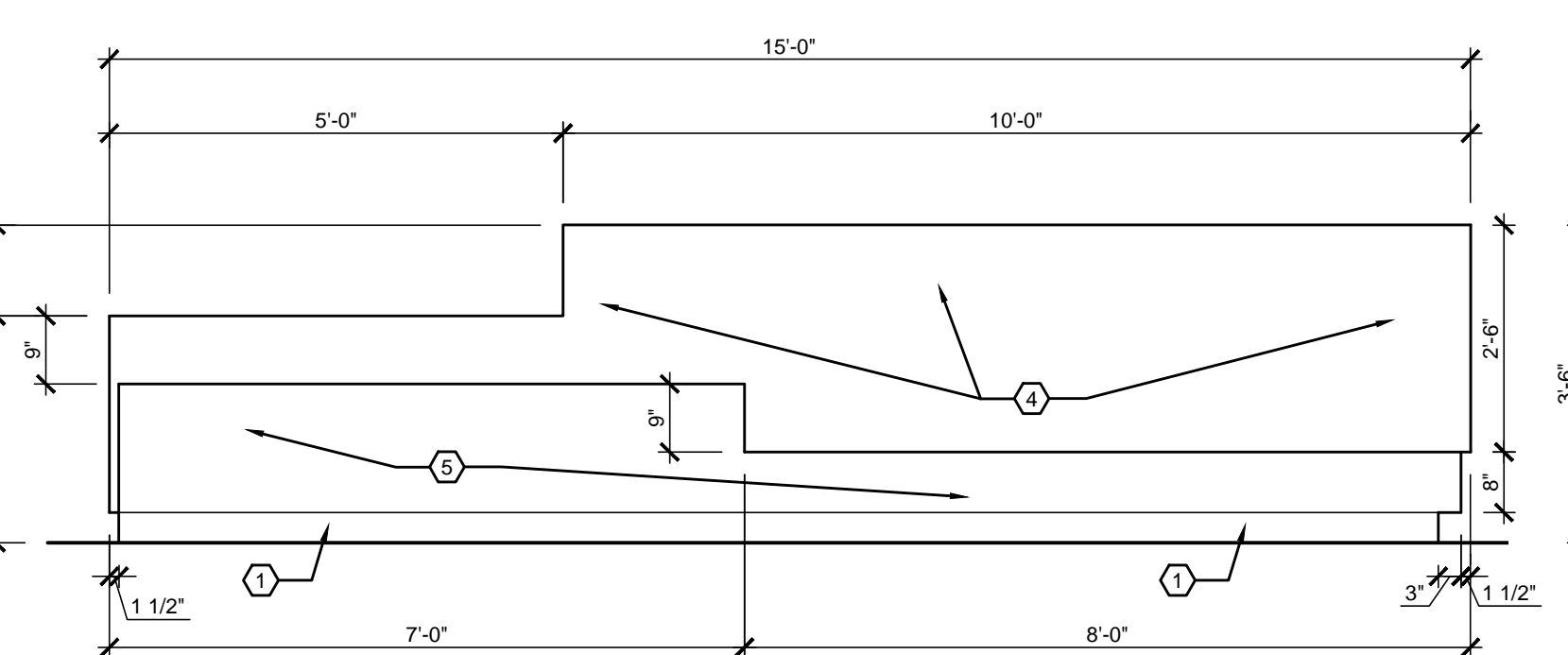
6 RECEPTION 103 ELEVATION SCALE: 1/2"=1'-0"



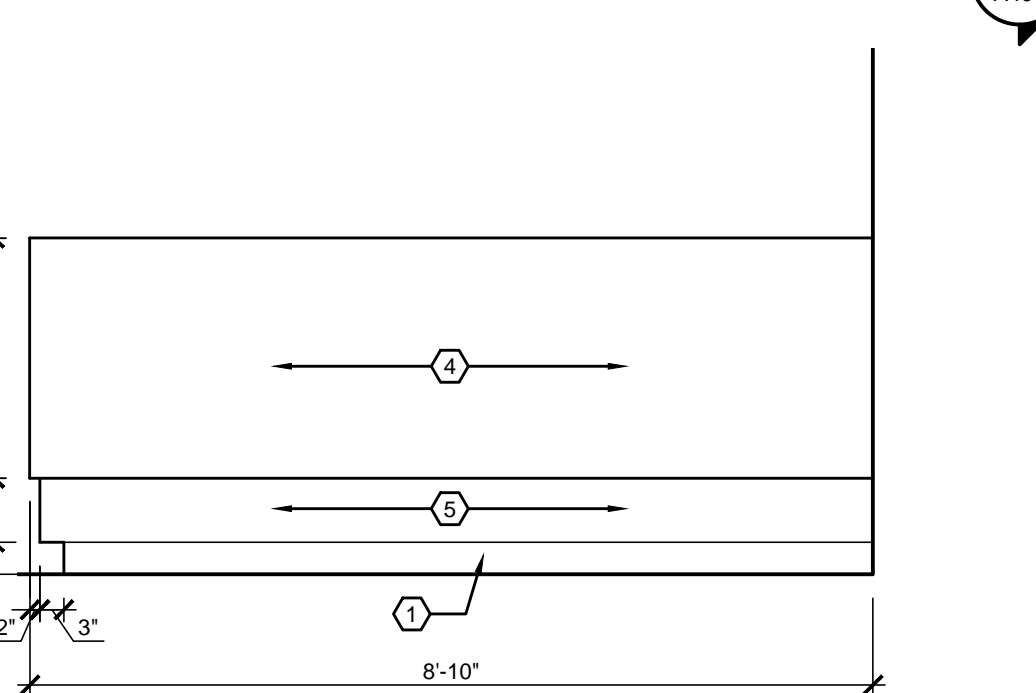
5 RECEPTION 103 ELEVATION SCALE: 1/2"=1'-0"



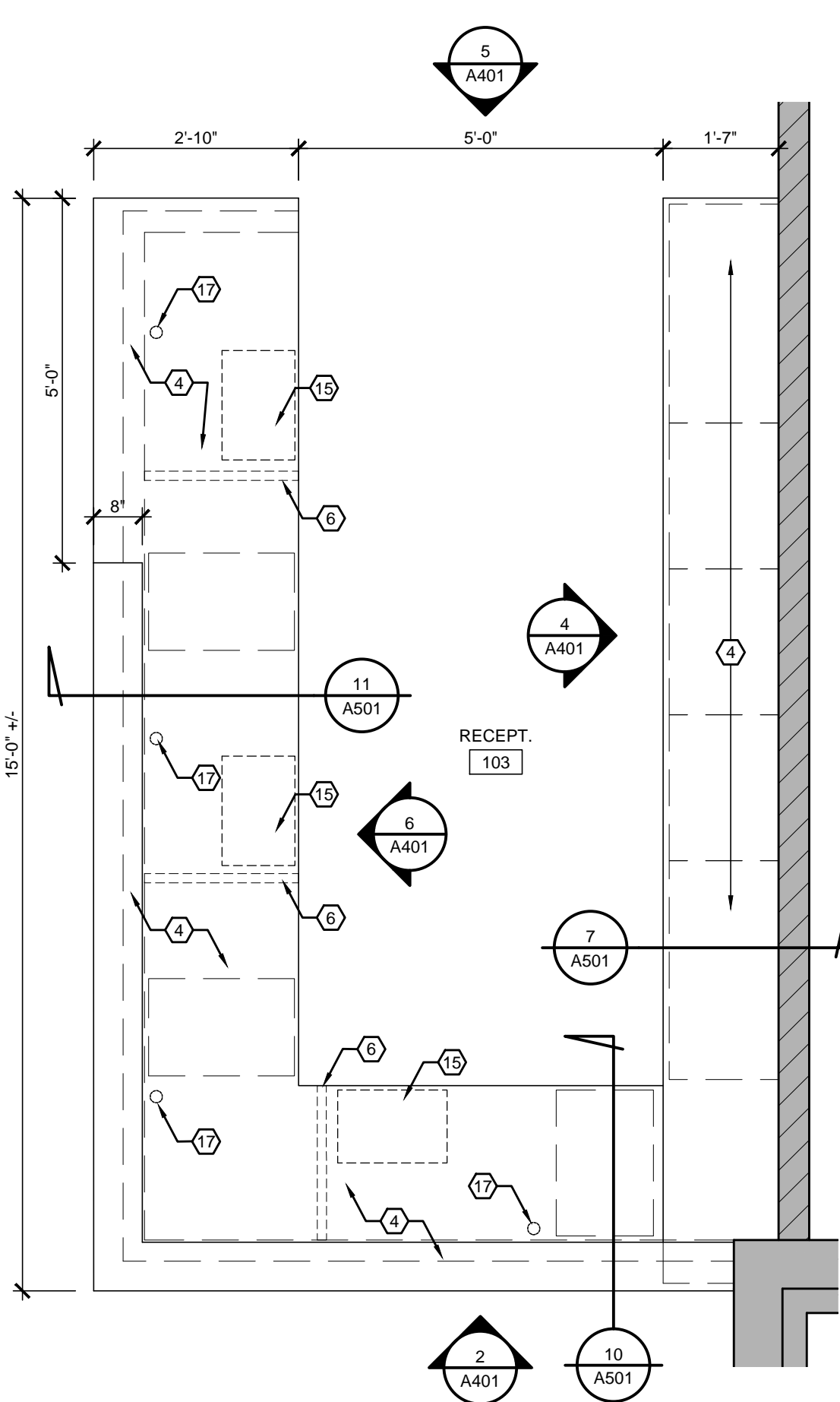
4 RECEPTION 103 ELEVATION SCALE: 1/2"=1'-0"



3 RECEPTION 103 ELEVATION SCALE: 1/2"=1'-0"



2 RECEPTION 103 ELEVATION SCALE: 1/2"=1'-0"



1 RECEPTION 103 PLAN SCALE: 1/2"=1'-0"

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BUILDING RENOVATIONS
 PERRY PROTECH
 1270 FLAGSHIP DRIVE
 PERRYSBURG, OH 43551

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ENLARGED RECEPTION PLAN & INTERIOR ELEVATIONS

ISSUED DATE
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 01-09-24 PERMITS

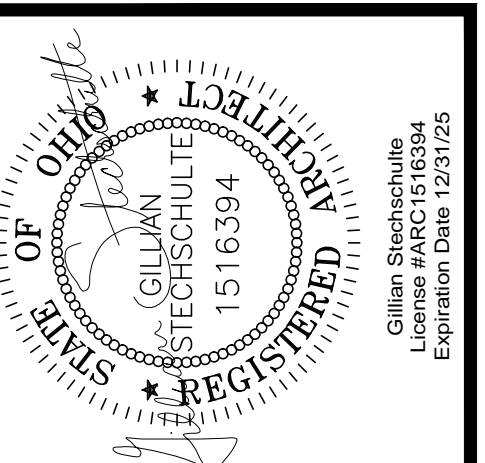
DRAWN BY: ANP

DATE: 08-23

PLOT SCALE: 1:1

JOB NO. 45-2902-23

SHEET A401



GENERAL CASEWORK NOTES

- FIELD VERIFY ALL DIMENSION PRIOR TO FABRICATION.
- CASEWORK FABRICATOR SHALL OBTAIN FROM THE PLUMBING CONTRACTOR A CUTOUT TEMPLATE FOR EACH COUNTERTOP MTD. SINK & OR LAV. USED. CASEWORK FABRICATOR SHALL THEN VERIFY CLEARANCES IN ALL SINK BASE CABINETS PRIOR TO FABRICATION OF UNITS. CASEWORK FABRICATOR SHALL BE SOLELY RESPONSIBLE FOR ALL REWORK OF CABINETRY & COUNTERTOPS IF VERIFICATION PROCESS IS NOT COMPLETELY PERFORMED.
- ALL COUNTERTOPS SHALL HAVE FINISHED EDGES.
- DOOR & DRAWER PULLS SHALL BE 3-3/4" EDGE PULLS AMEROCK #BP36574G10 SATIN NICKEL.
- SEE FINISH SCHEDULE & MATERIALS LEGEND ON SHEET I101 FOR MATERIAL COLORS AT VARIOUS LOCATIONS.
- PROVIDE BLOCKING IN WALLS AS REQ'D. TO SUPPORT CABINETS & COUNTERTOPS, ETC.
- DRAWERS: PLASTIC LAMINATE OVER 3/4" MDF. BD. FRONT W/ GRASS "ZARGEN" DRAWER SYSTEM OR W/ 100# CAPACITY, 3/4" EXTENSION, SELF CLOSING FEATURE, BUILT-IN DRAWER FRONT BUMPERS & ADJUSTMENT CAPABILITIES. USE MODEL NUMBER AS REQ'D. FOR PARTICULAR DRAWER DEPTH. MELAMINE OVER 3/4" MDF. BD. DRAWER BOTTOM, SIDES & BACK AT FILE DRAWERS, TYPICAL.
- COUNTERTOPS: SOLID SURFACE - DETAIL 8/A501 PLASTIC LAMINATE - DETAIL 9/A501.
- FURNISH & INSTALL FILLER AS REQ'D. BETWEEN CABINETS & FINISHED WALLS.
- PREFINISHED MTL. COUNTERTOP SUPPORT BRACKETS. SUPPORTBRACKETS.COM. A & M HARDWARE, INC. OR = DEPTH OF BRACKET AS REQ'D. BASED ON DEPTH OF COUNTERTOP.
- PROVIDE FILE HANGER RAILS AT FILE CABINET TYPE DRAWER BASES.
- RUN PLASTIC LAMINATE WOOD GRAIN VERTICALLY ON DOORS AND DRAWERS.

KEYNOTE LEGEND SHEET A501

- PLASTIC LAMINATE OVER 3/4" MDF. BD. SEE MATERIALS FINISH LEGEND ON SHEET I101
- SOLID SURFACE: SEE INTERIOR FINISH LEGEND SHEET I101
- PREFINISHED MTL. COUNTERTOP SUPPORT BRACKET, A & M HARDWARE, INC. HYBRID WORK STATION BRACKET, COLOR: WHITE.
- 1/2" DIVIDERS/SUPPORTS W/ PLASTIC LAM. FINISH.
- BASE, PLASTIC LAMINATE OVER 3/4" MDF BD.
- POLYESTER COVERED 1/2" THK. FIBER BD. PANELS, HOMASOTE OR = COVER FACE & EDGES W/ FABRIC MEETING ASTM E84 CLASS I OR A FLAMMABILITY REQUIREMENTS. FABRIC BY GUILFORD OF MAINE OR = SEE ROOM FINISH SCHEDULE MATERIALS LEGEND.
- 3/4" PLYWD. FRAMING AT 16" O.C. MAX. & AS NEEDED FOR SUPPORT & BACKING.
- ELEC. RECEPT. OR DATA/COM BY E.C. - SEE ELEC. DWGS.

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CABINET SECTIONS

ISSUED DATE
 11-21-23 BIDDING & PERMITS
 01-09-24 PERMITS

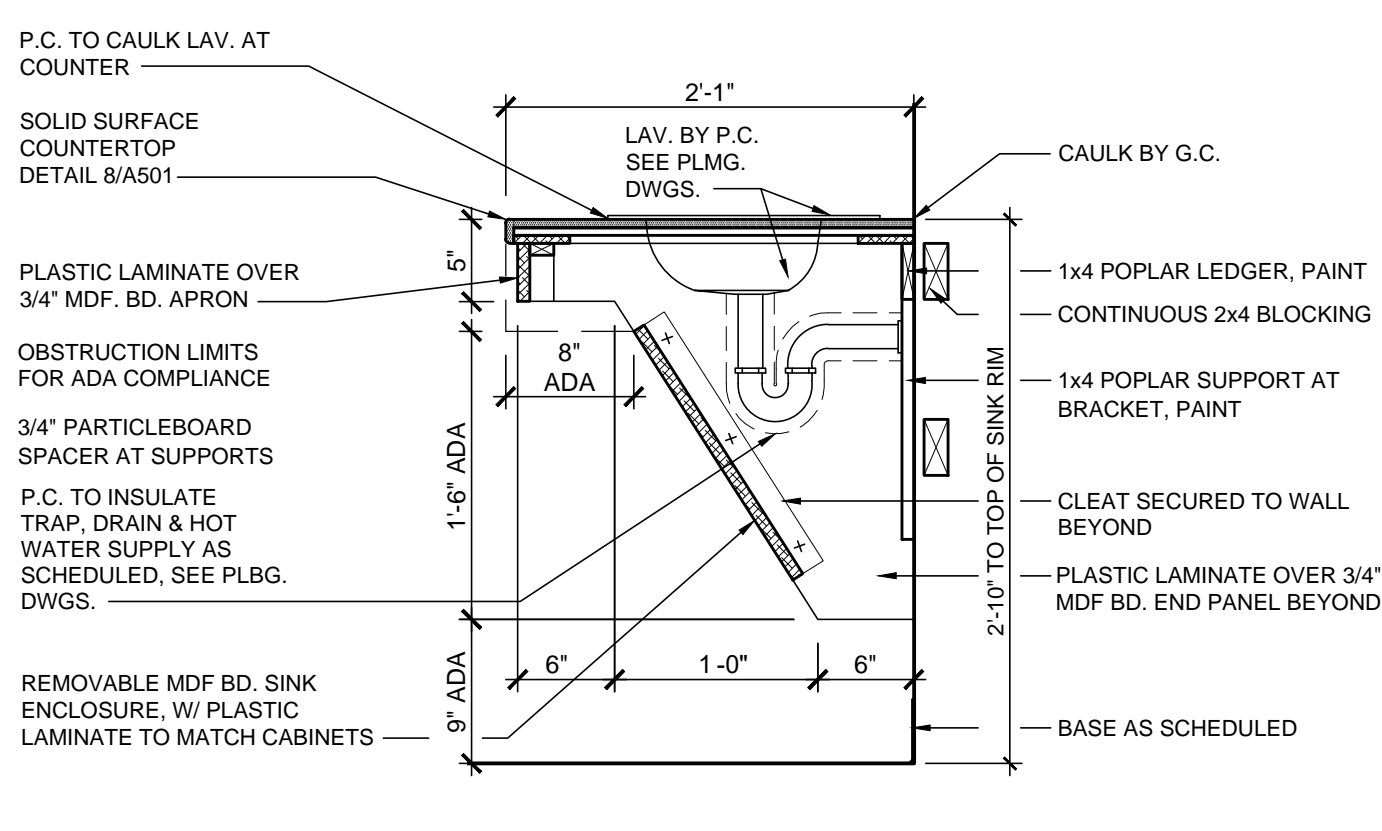
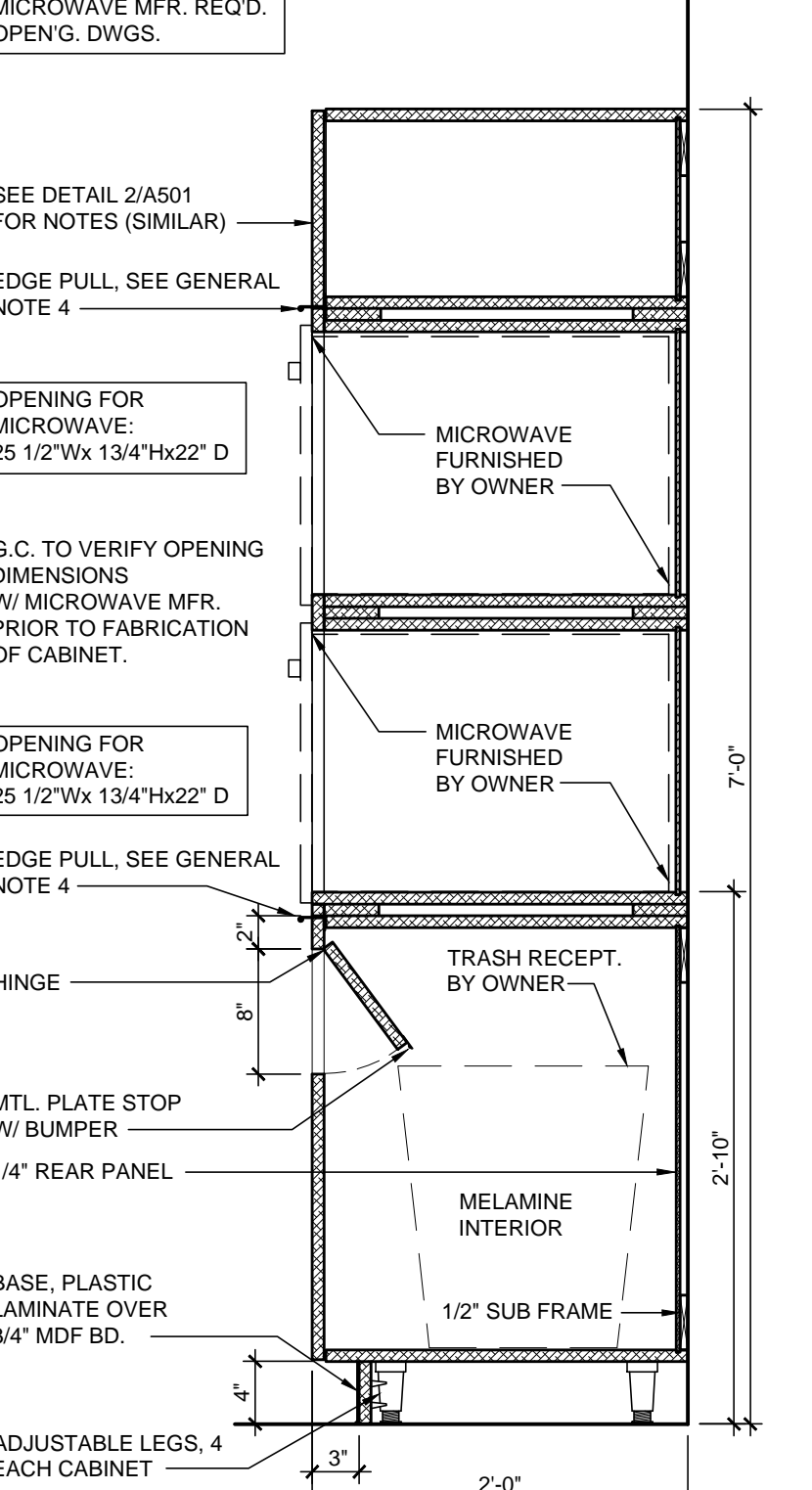
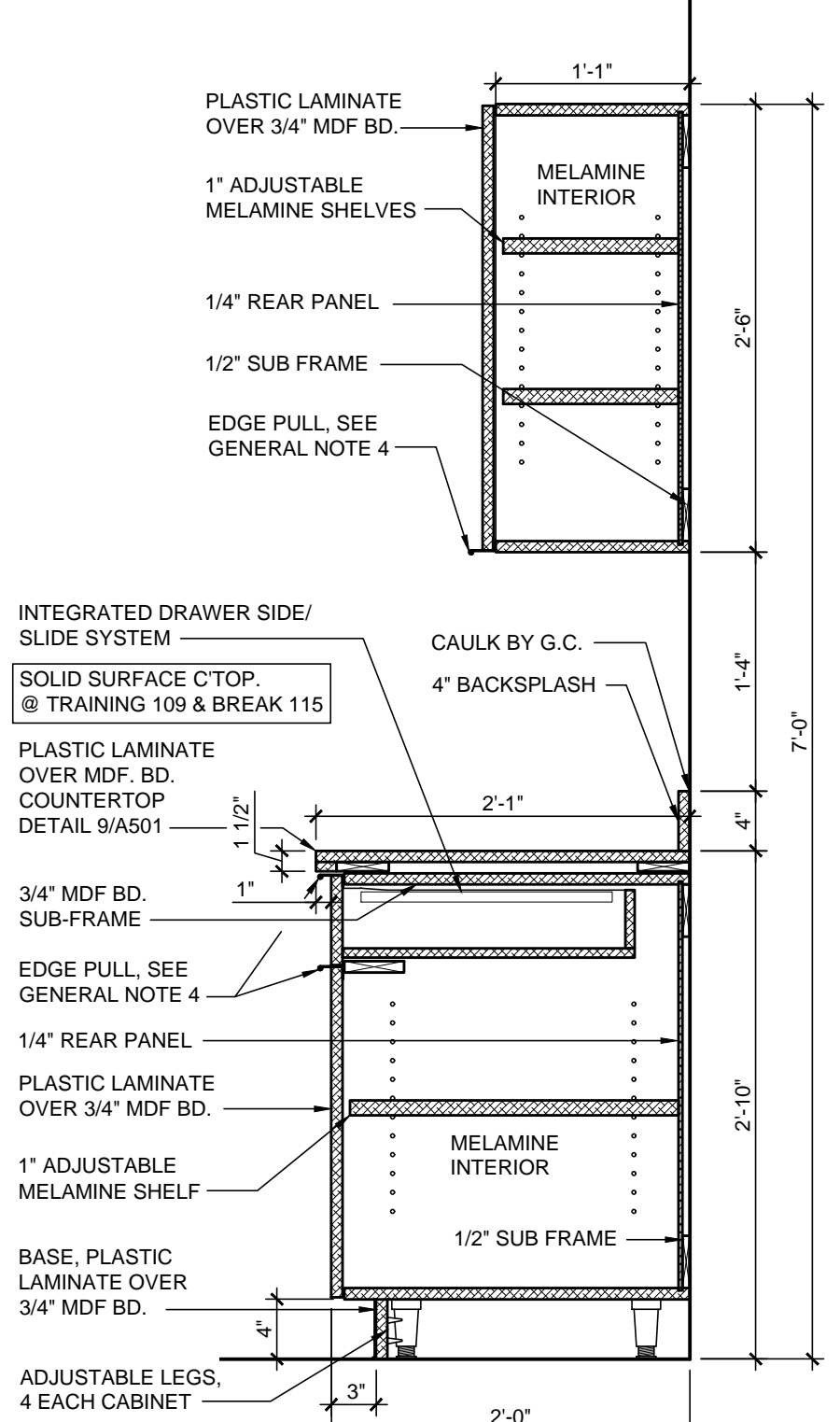
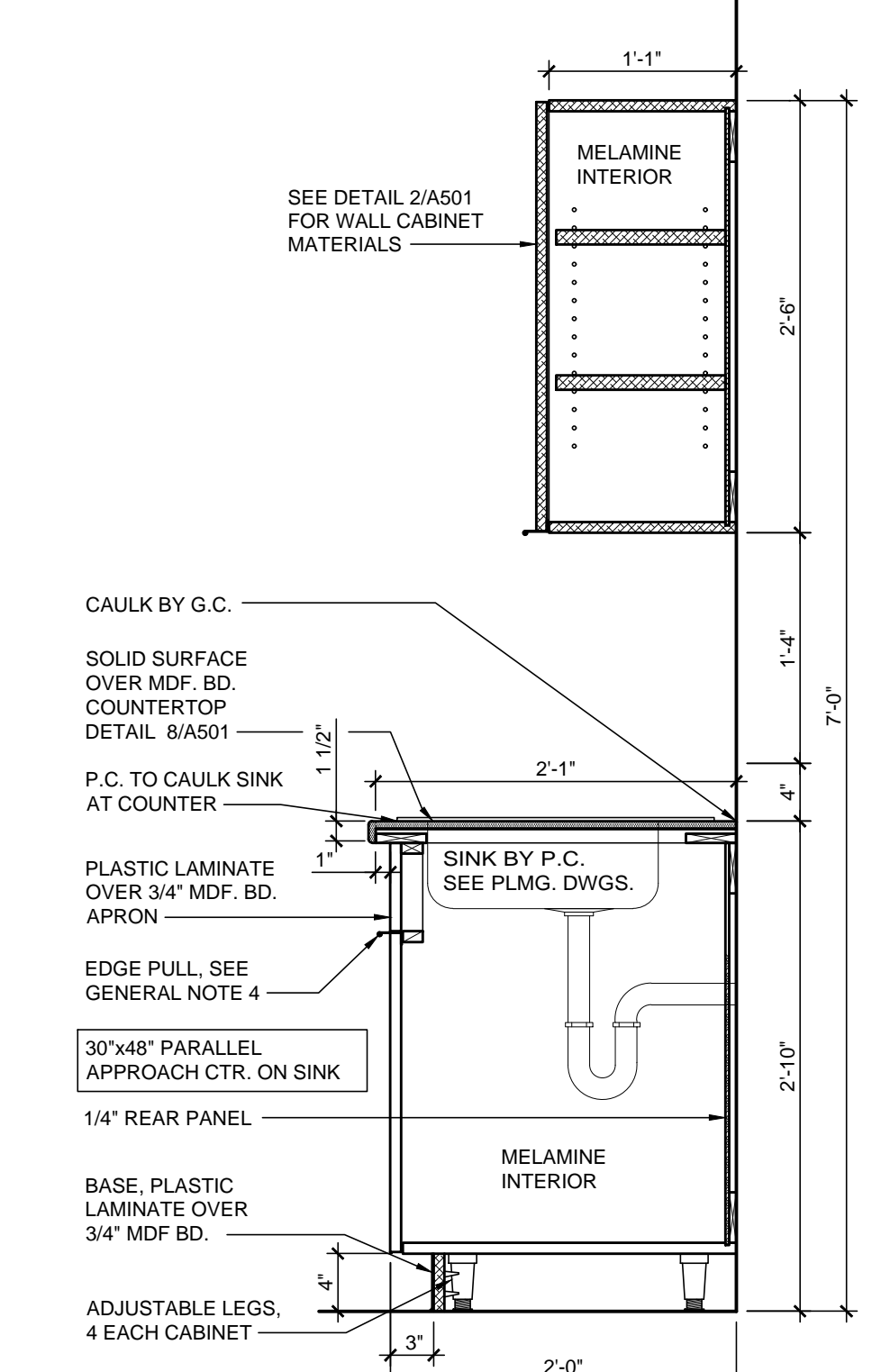
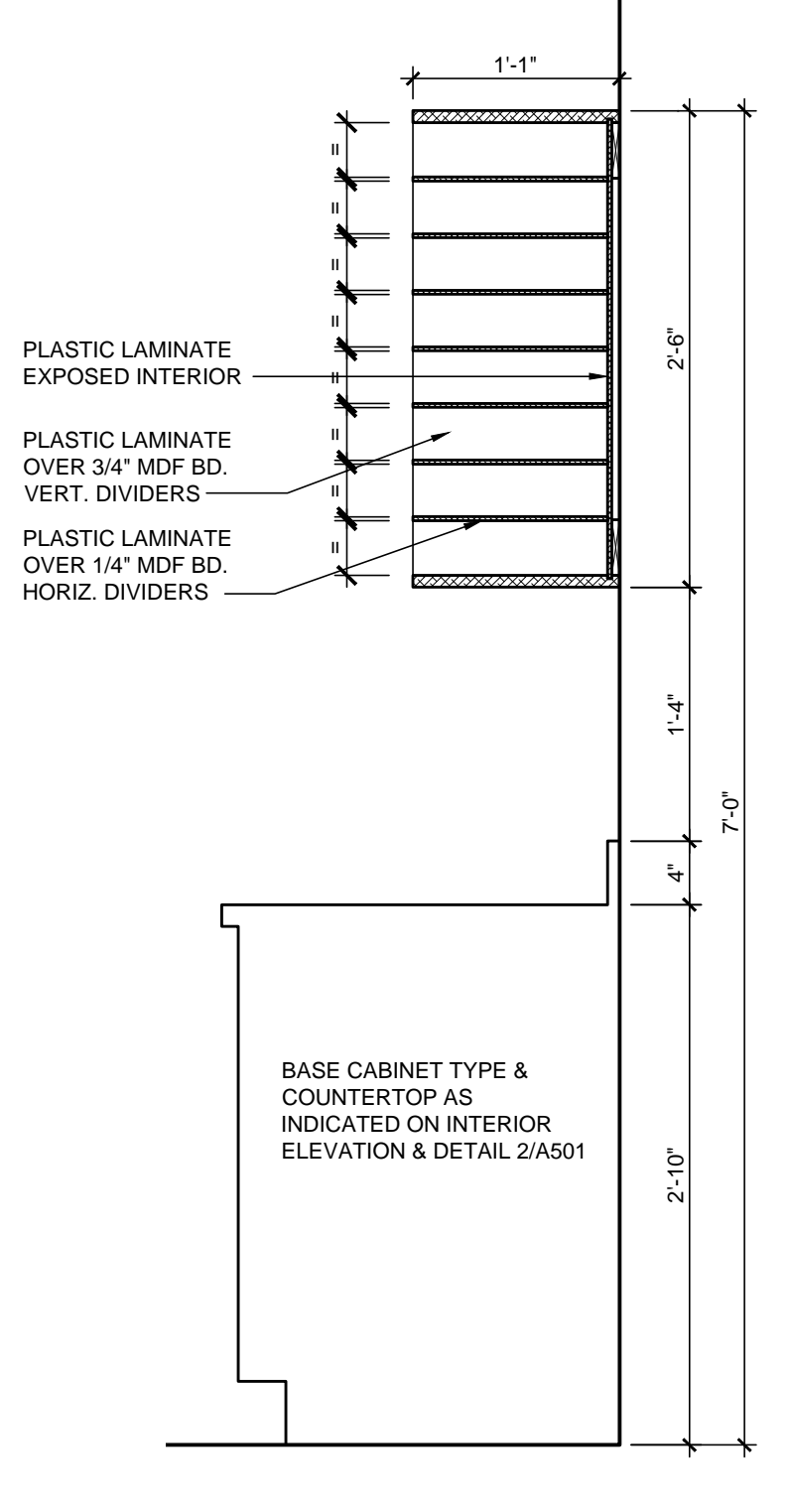
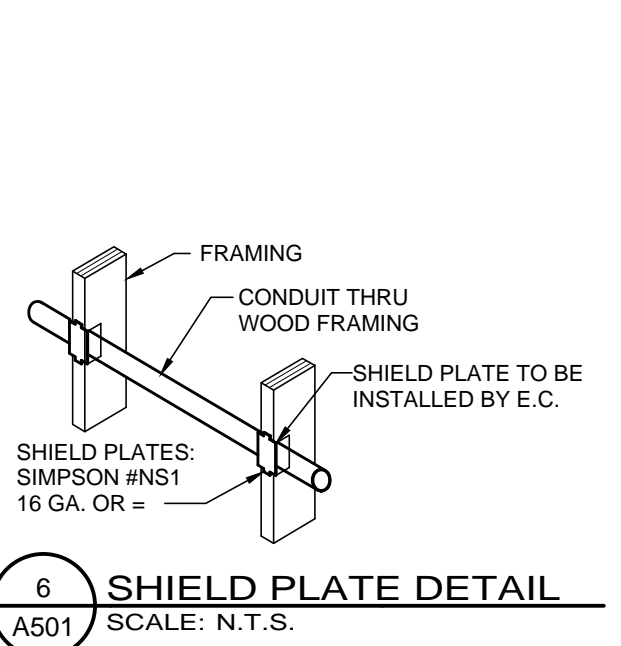
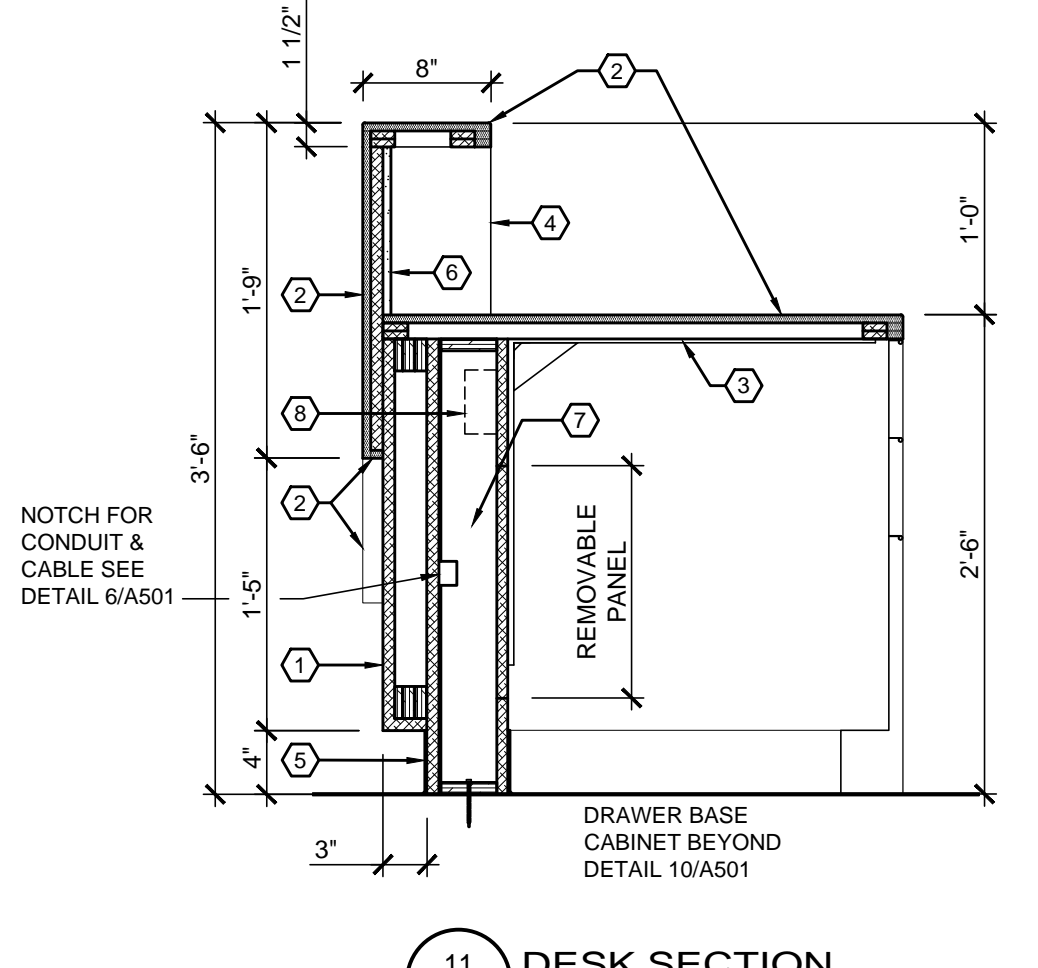
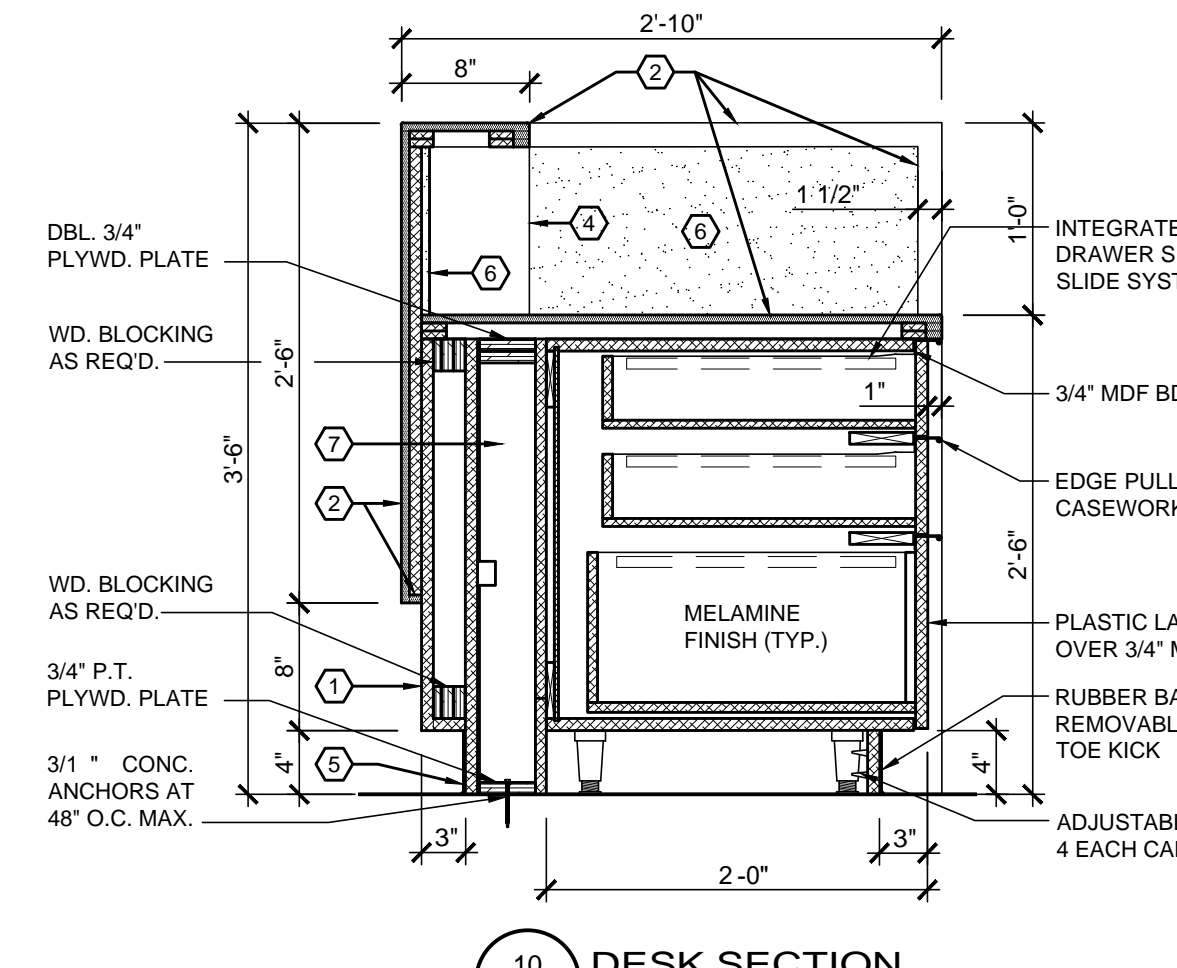
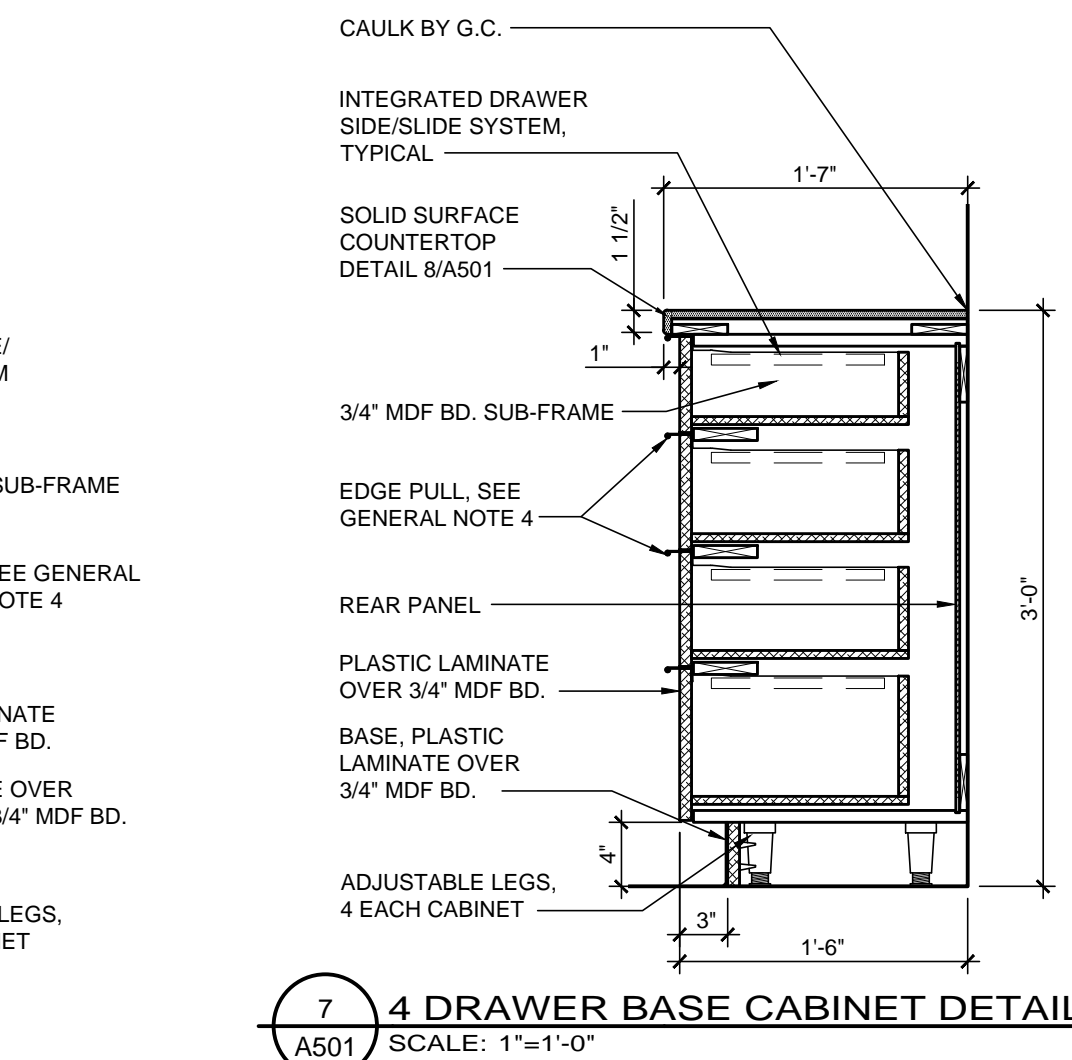
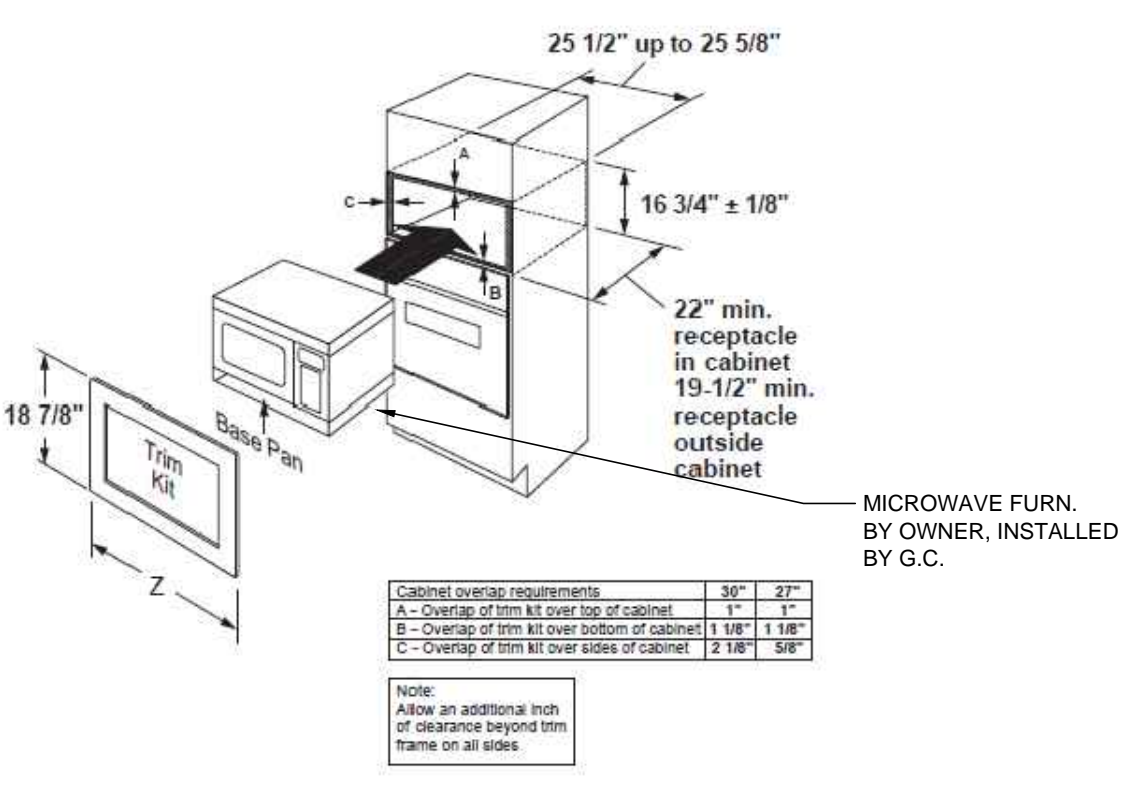
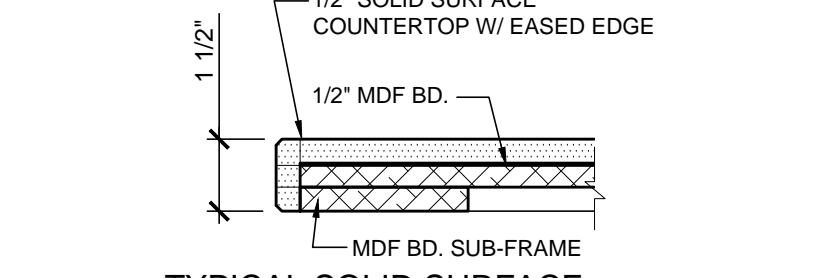
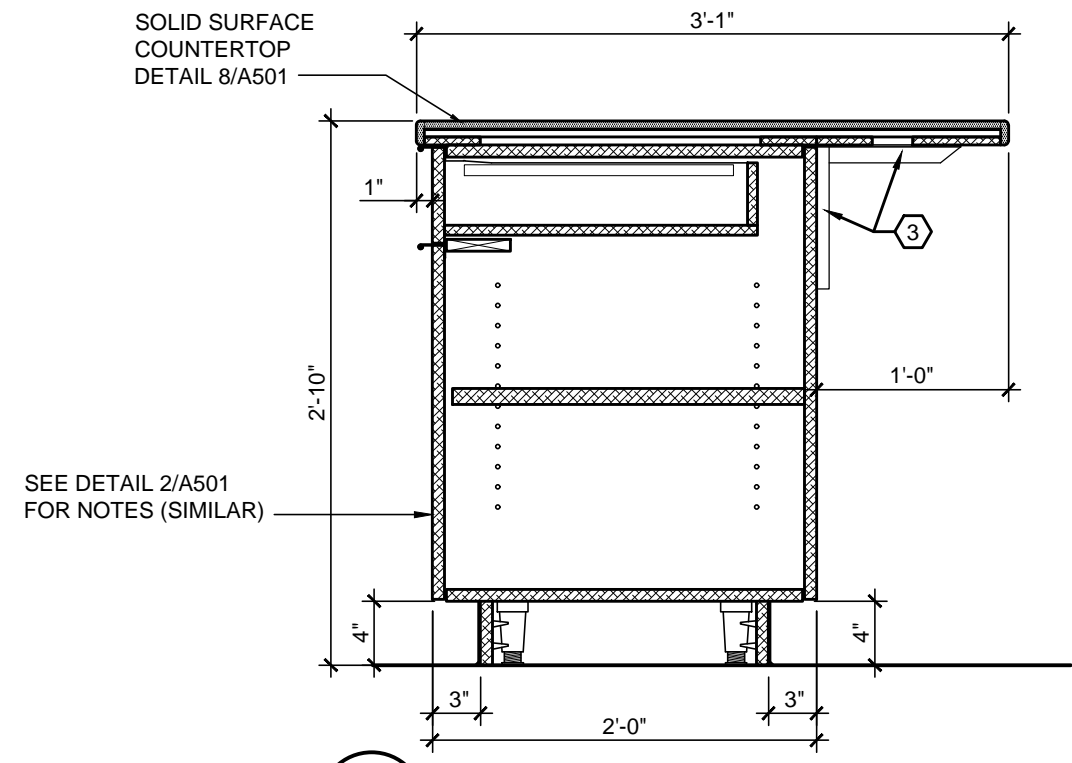
DRAWN BY: ANP

DATE: 08-23

PLOT SCALE: 1:1

JOB NO.: 45-2902-23

SHEET
 A501



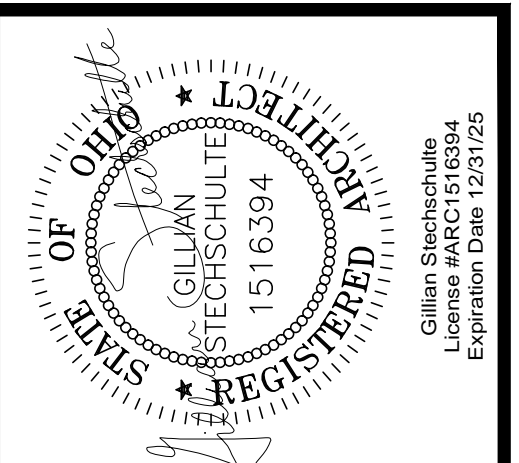
5 A501 SINK ENCLOSURE COUNTERTOP LAV. DETAIL
 SCALE: 1"=1'-0"

4 A501 WALL MAIL CABINET DETAIL
 SCALE: 1"=1'-0"

3 A501 SINK BASE/WALL CABINET DETAIL
 SCALE: 1"=1'-0"

2 A501 BASE/WALL CABINET DETAIL
 SCALE: 1"=1'-0"

1 A501 MICROWAVE/WASTE RECEPT CABINET DETAIL
 SCALE: 1"=1'-0"



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WINDOW & DOOR DETAILS

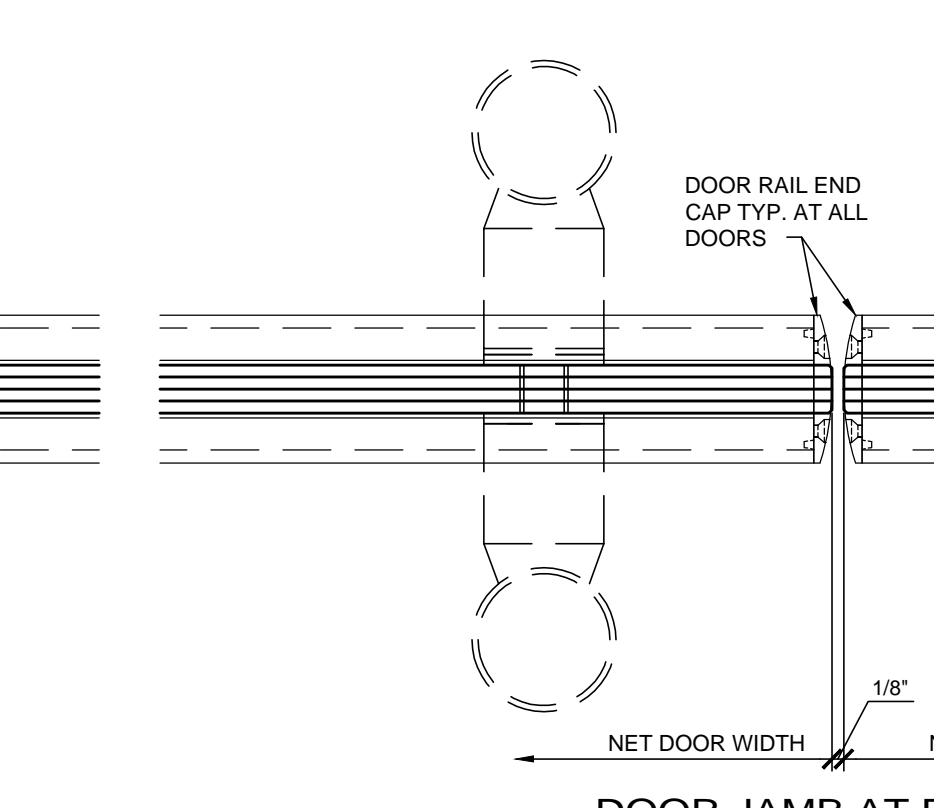
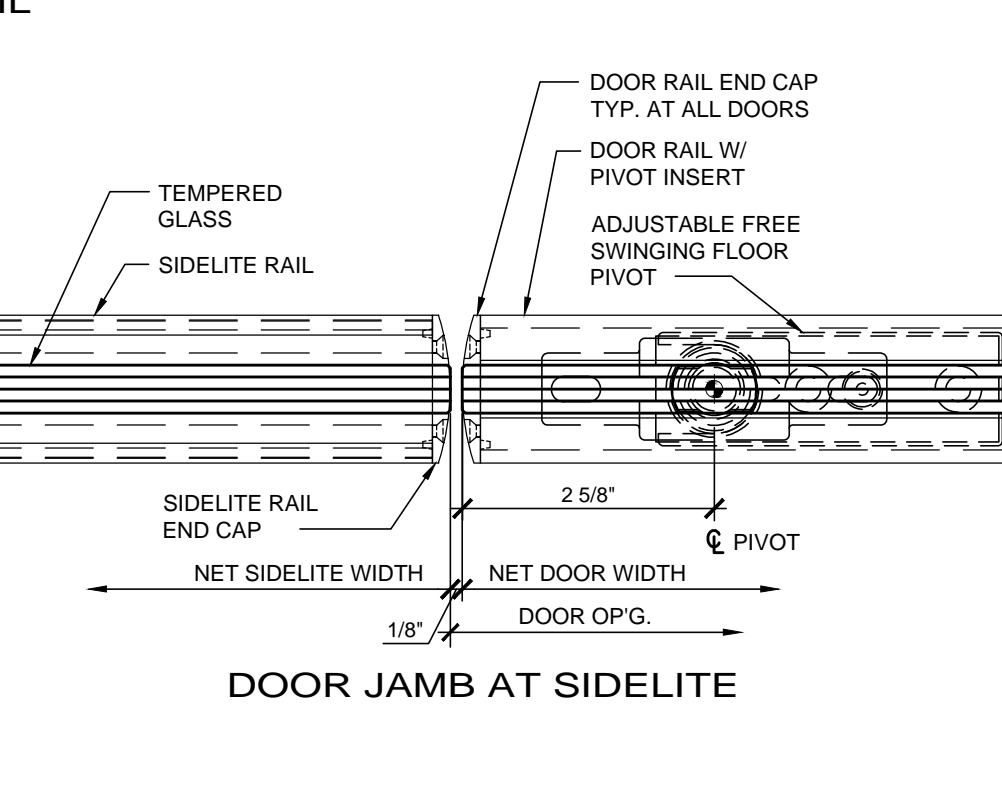
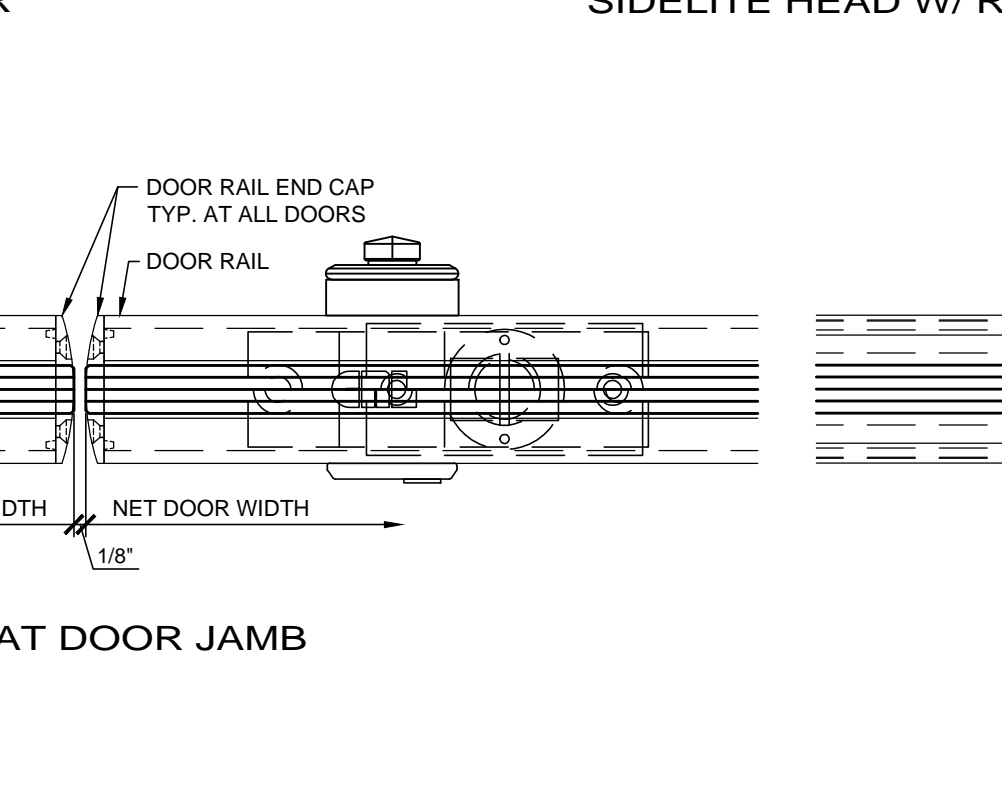
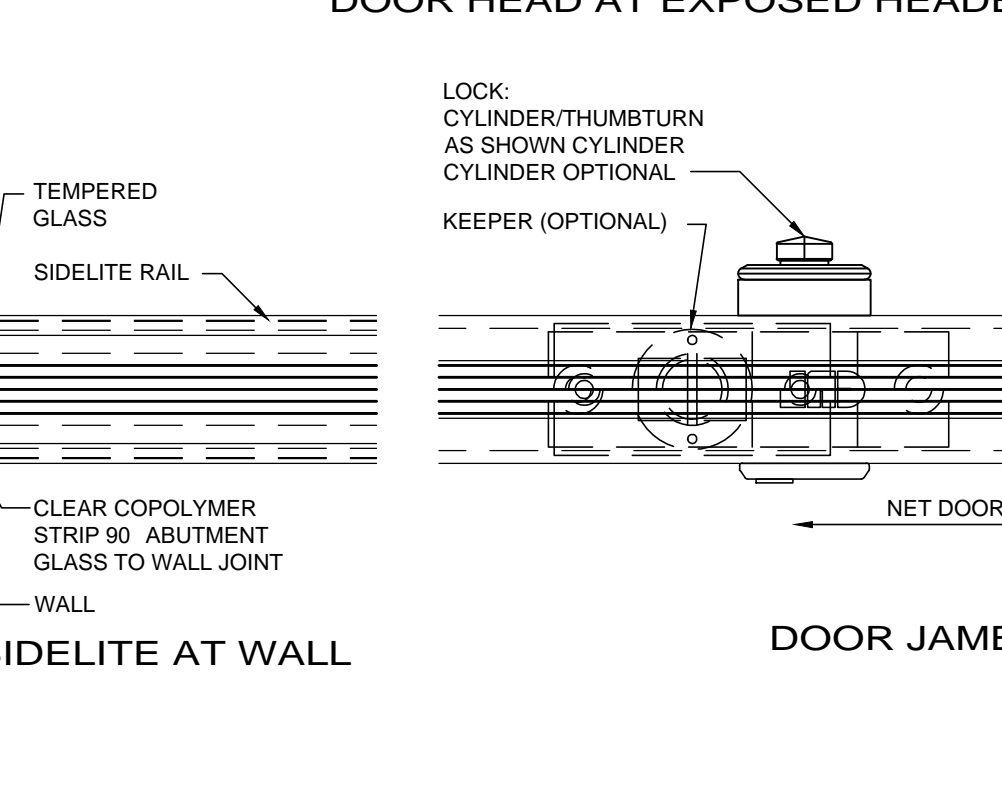
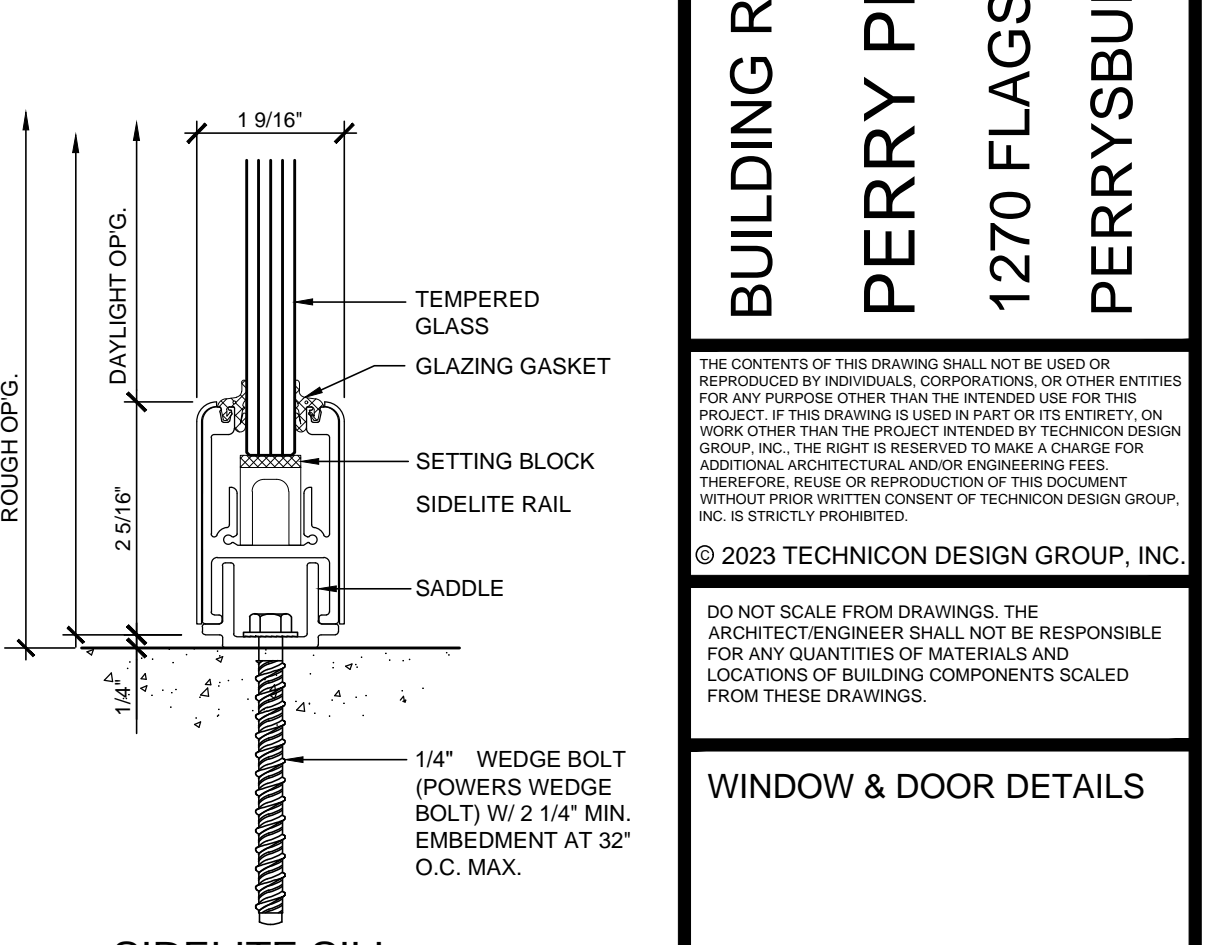
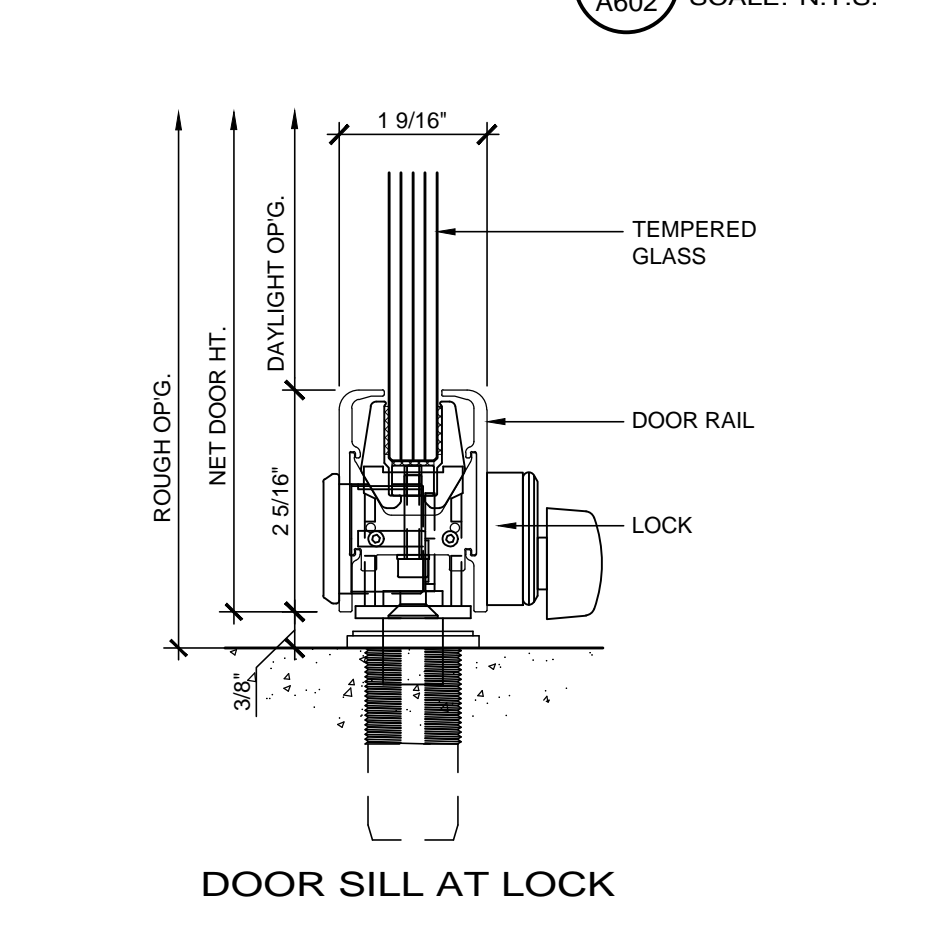
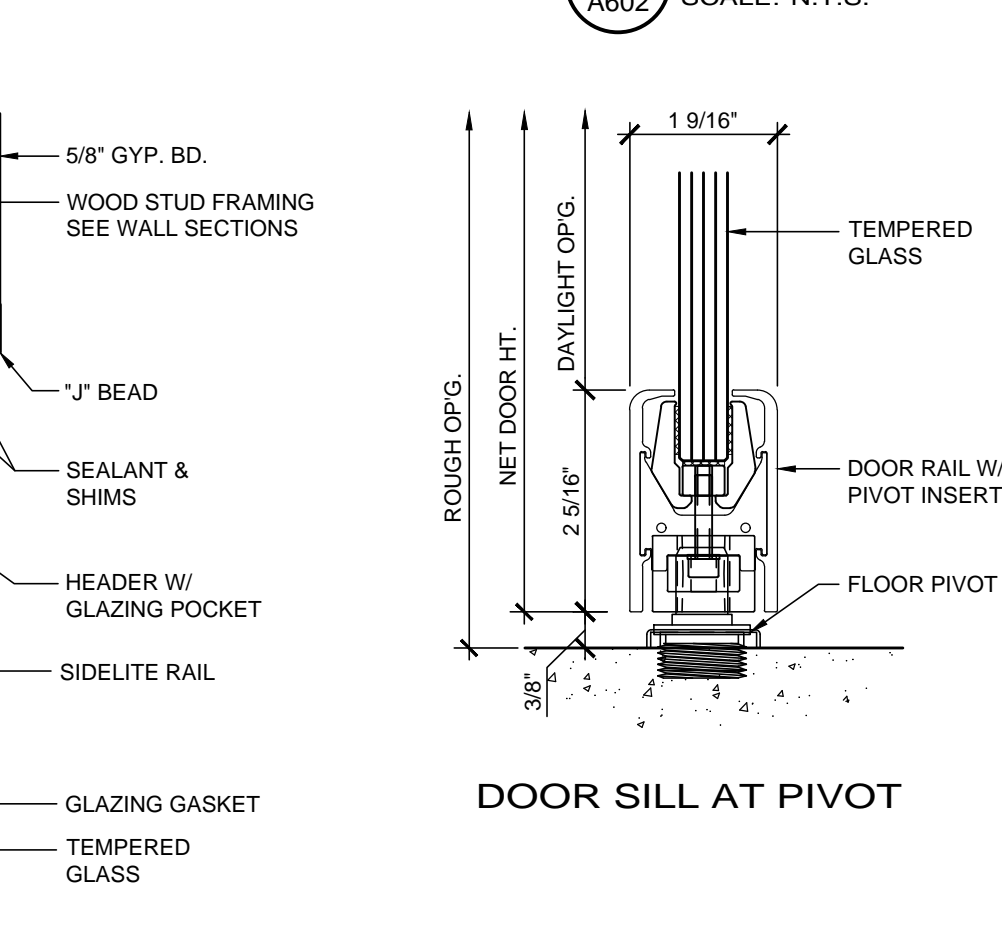
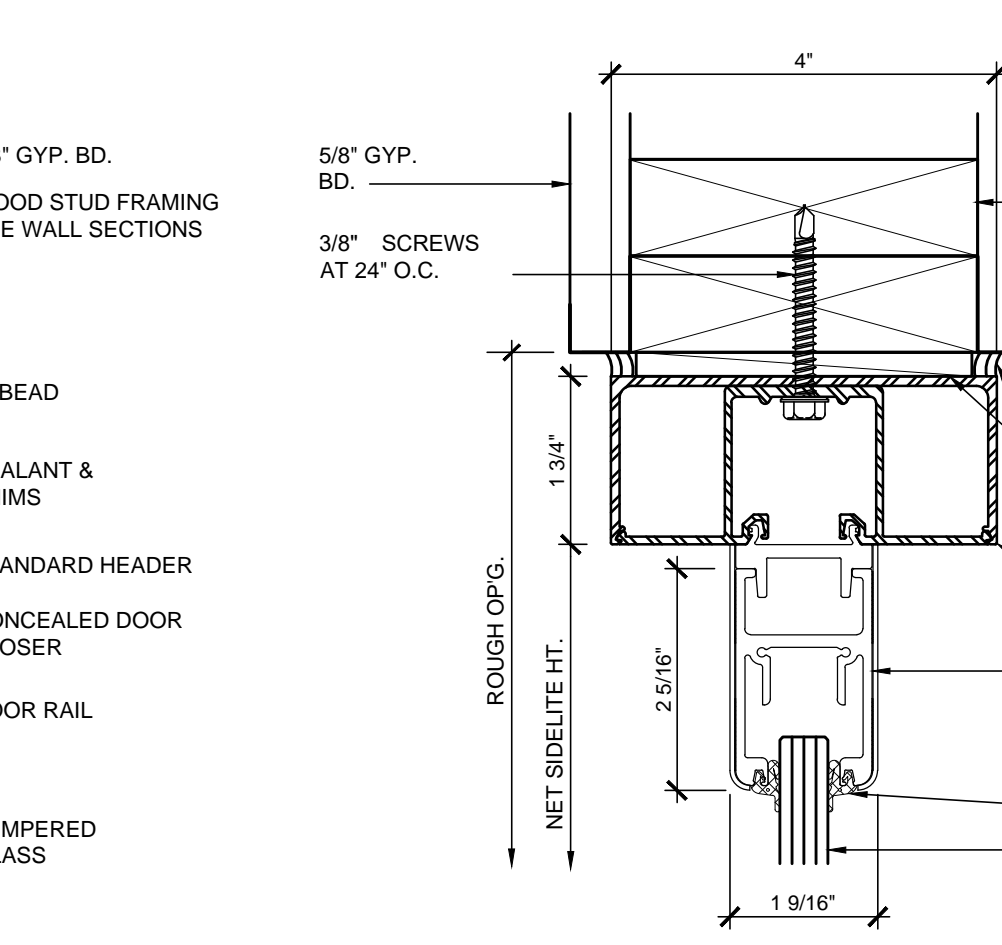
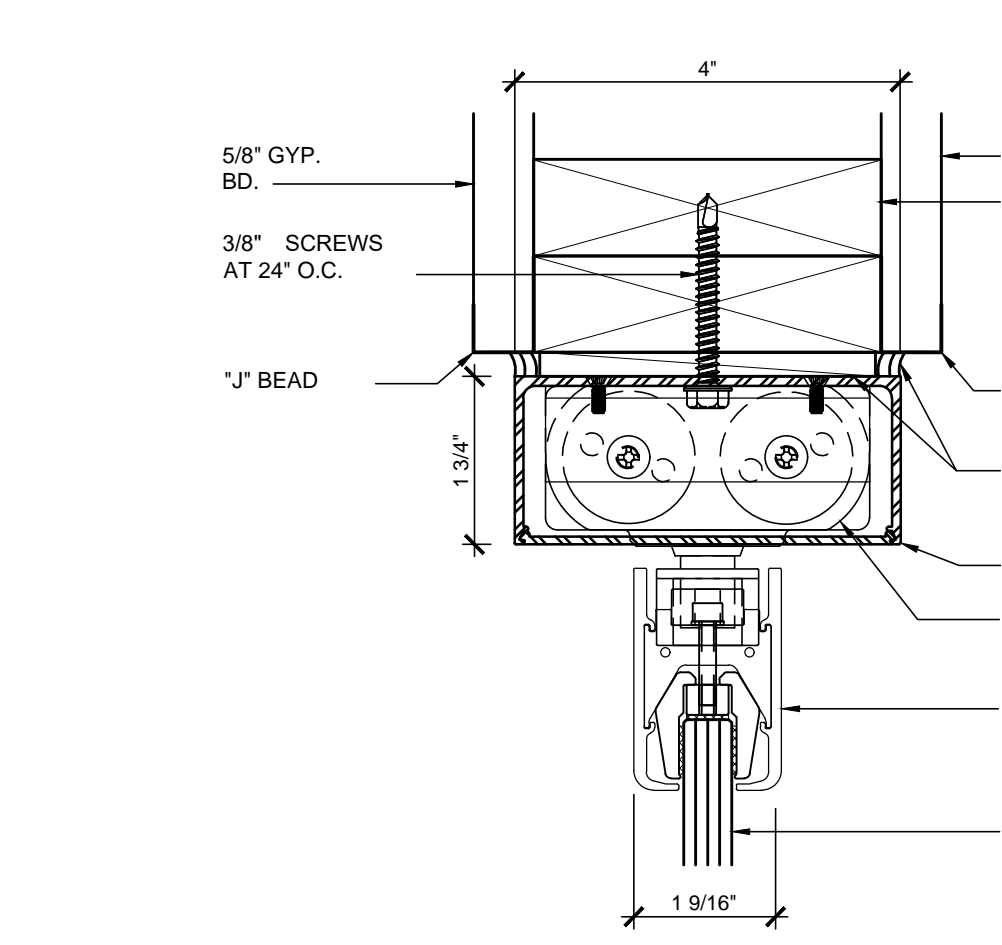
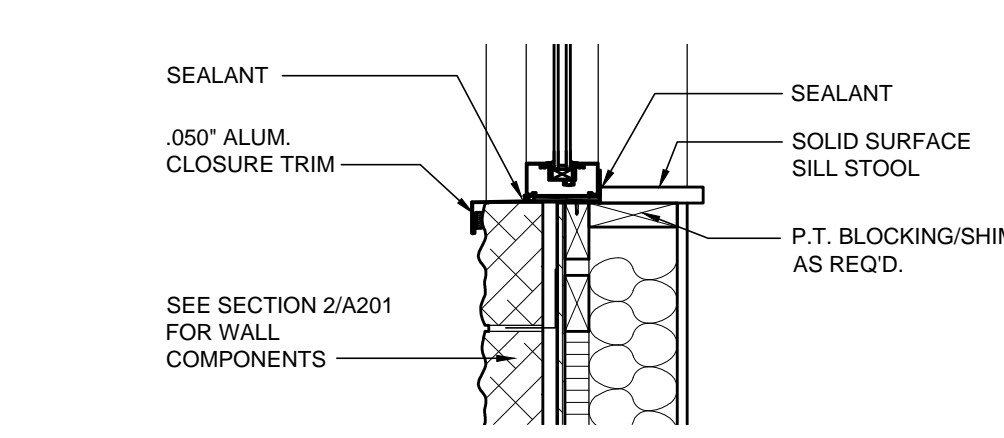
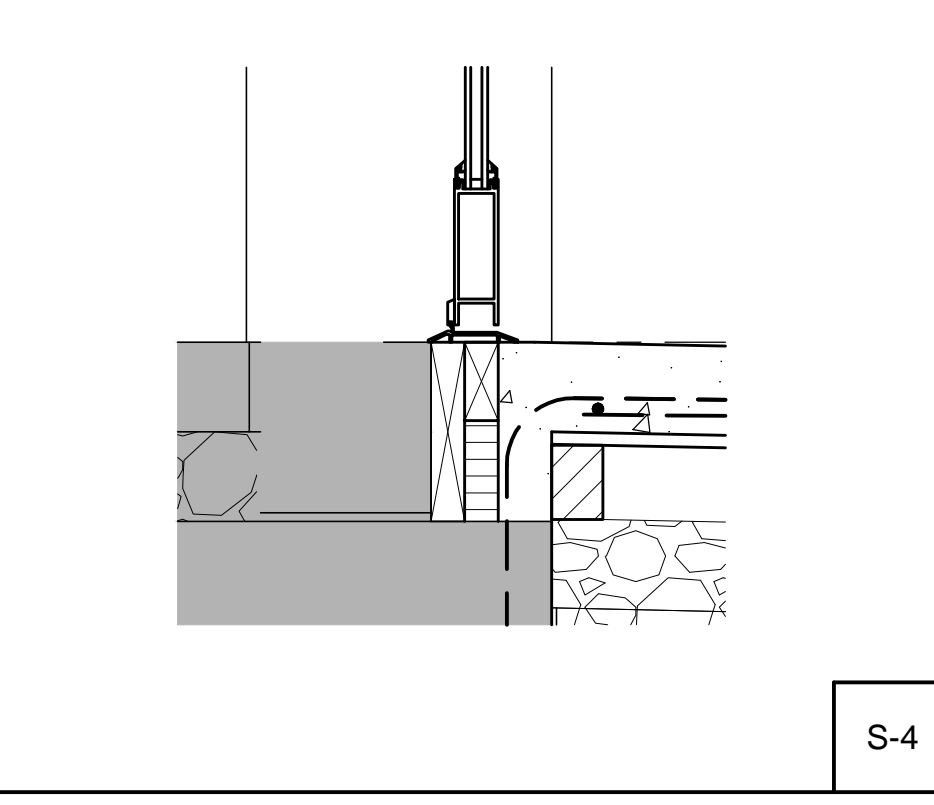
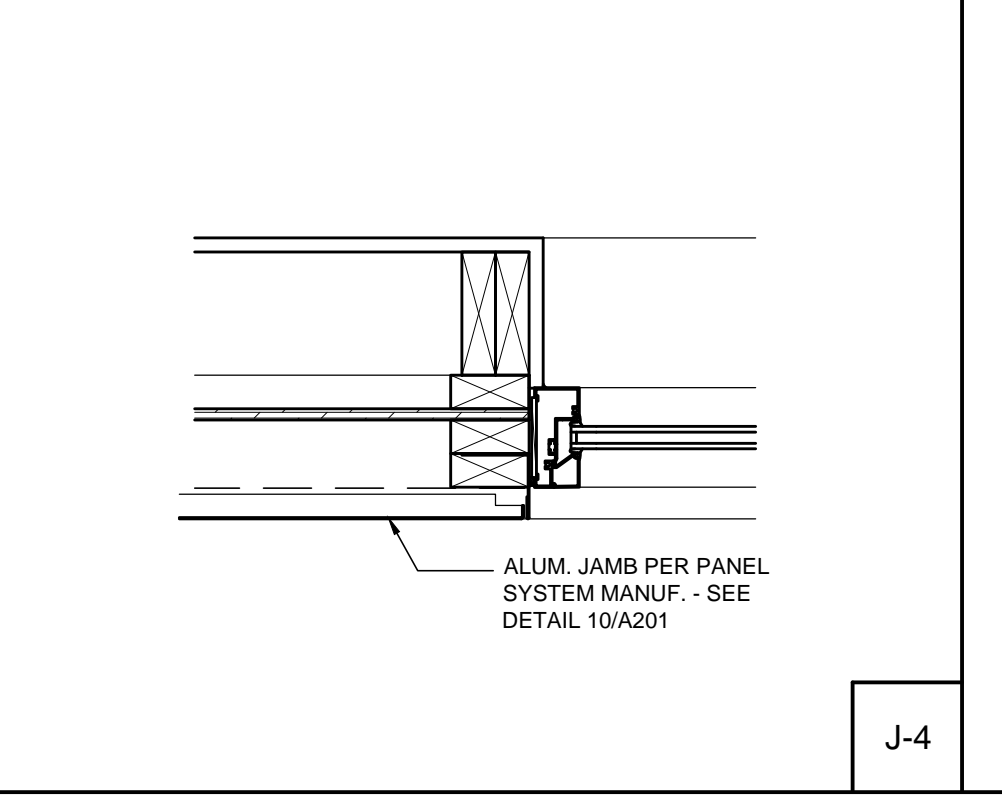
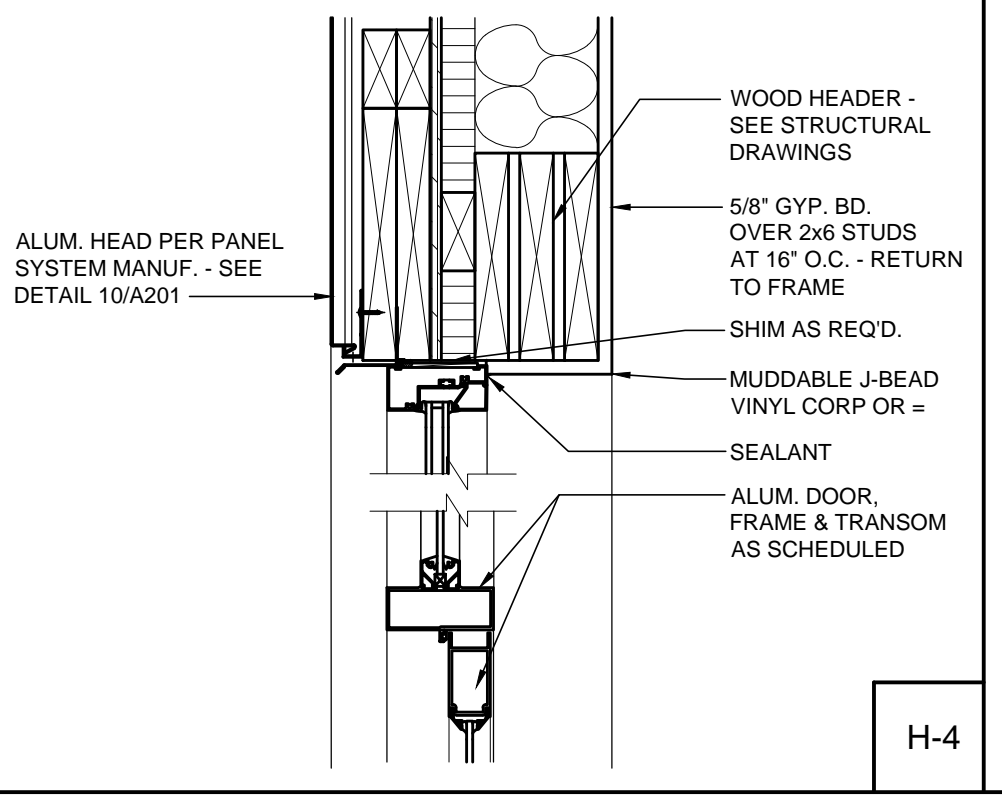
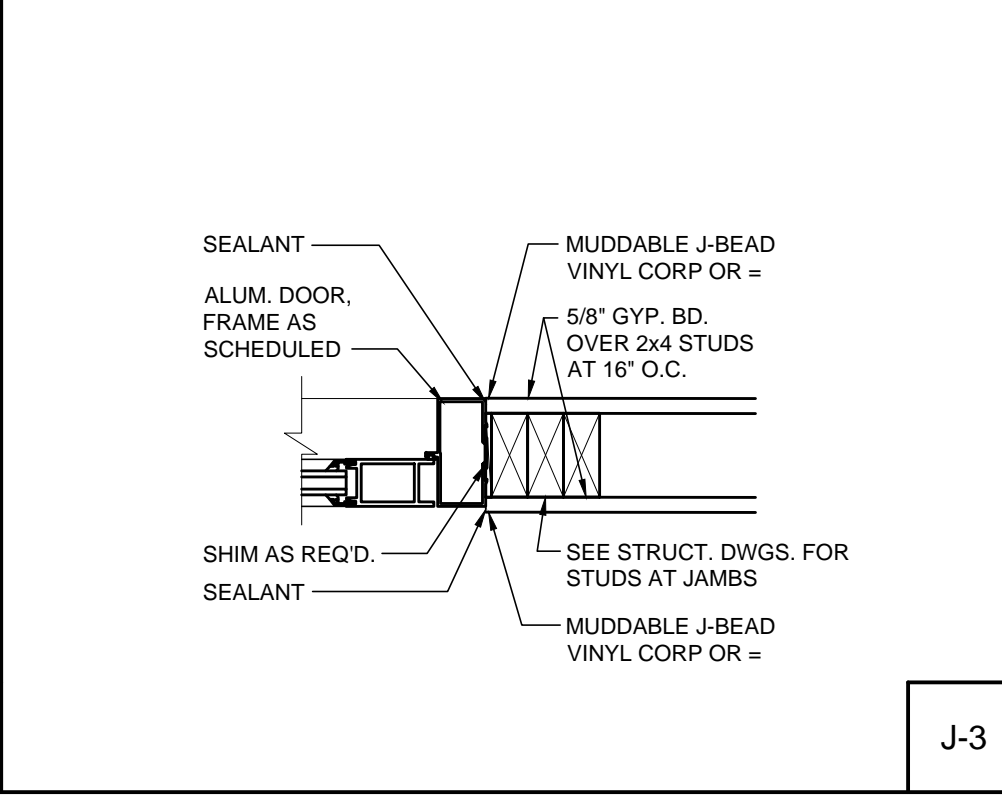
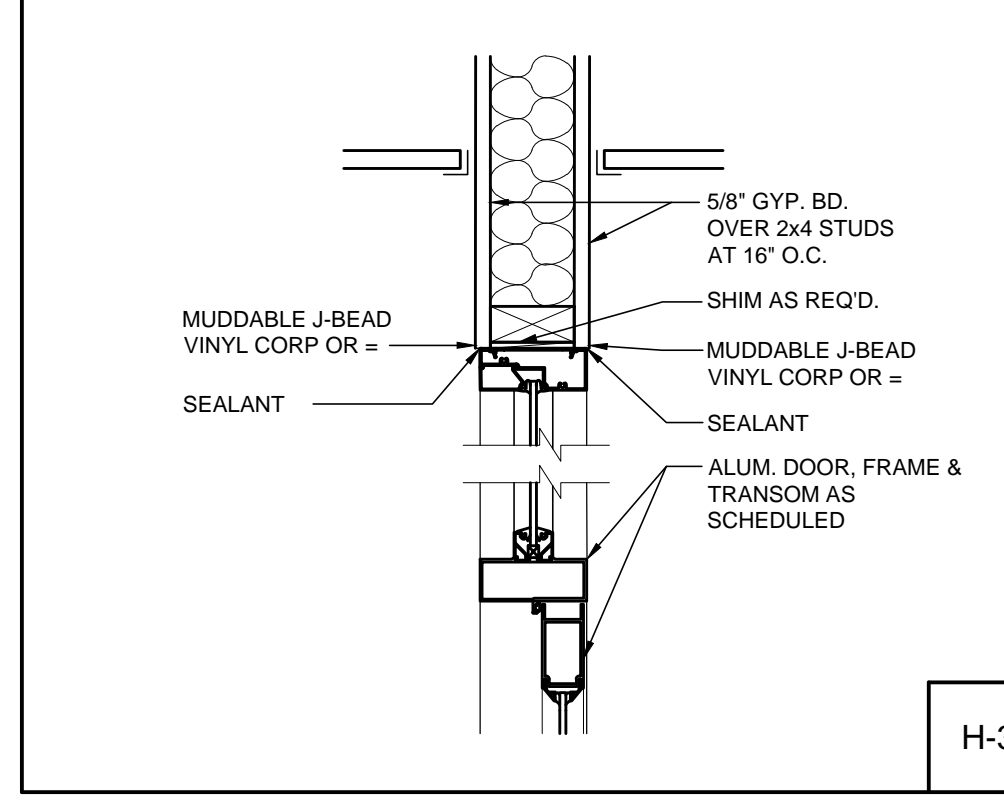
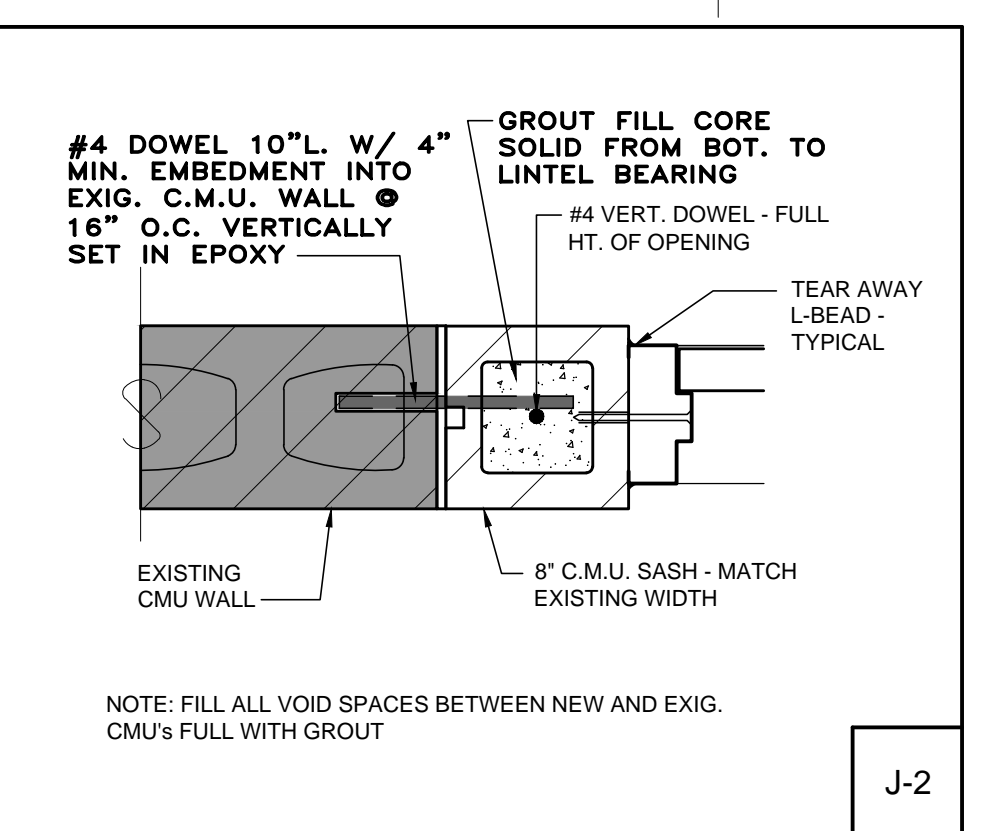
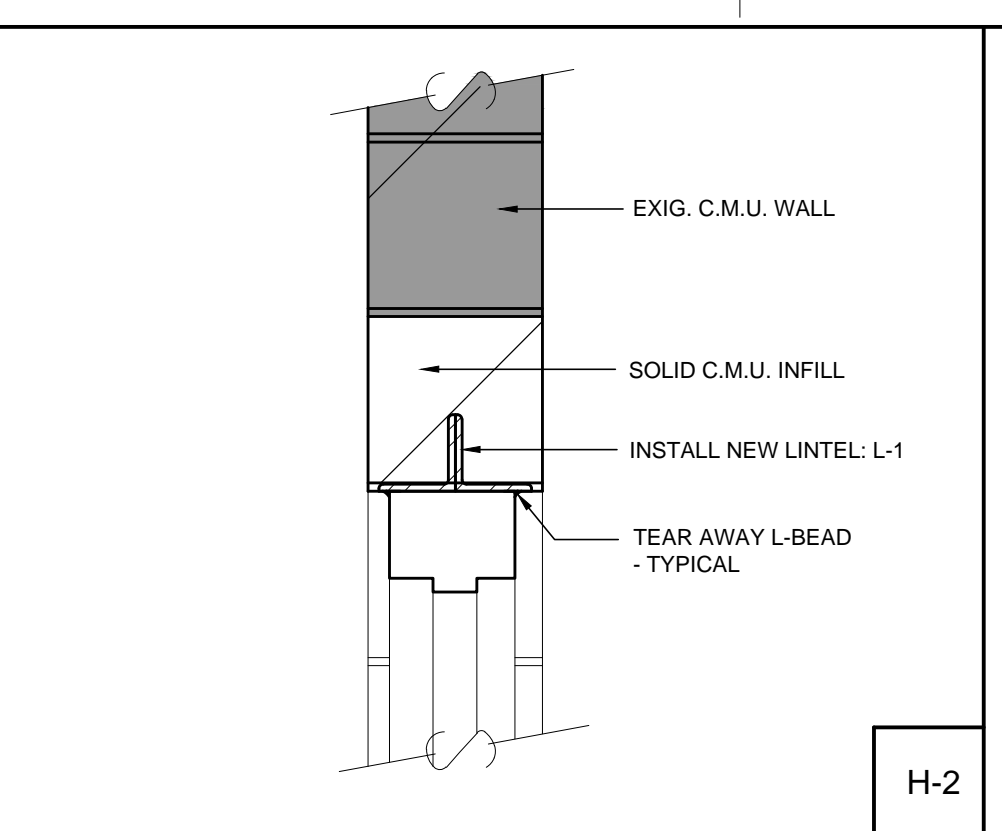
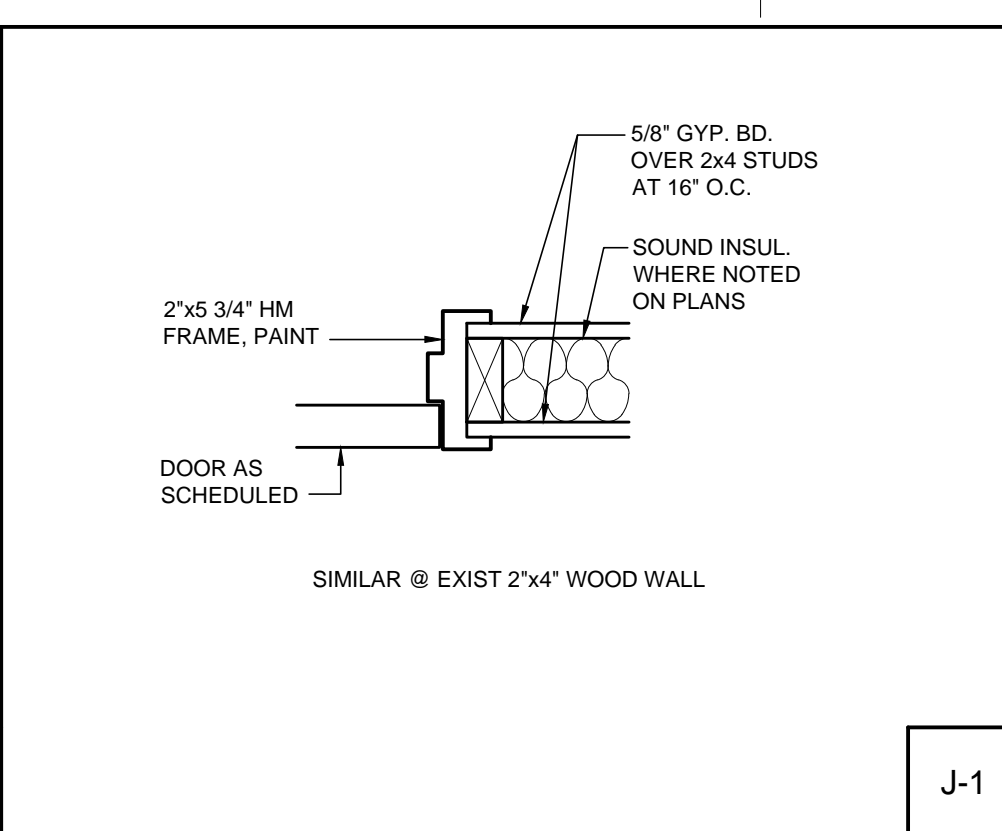
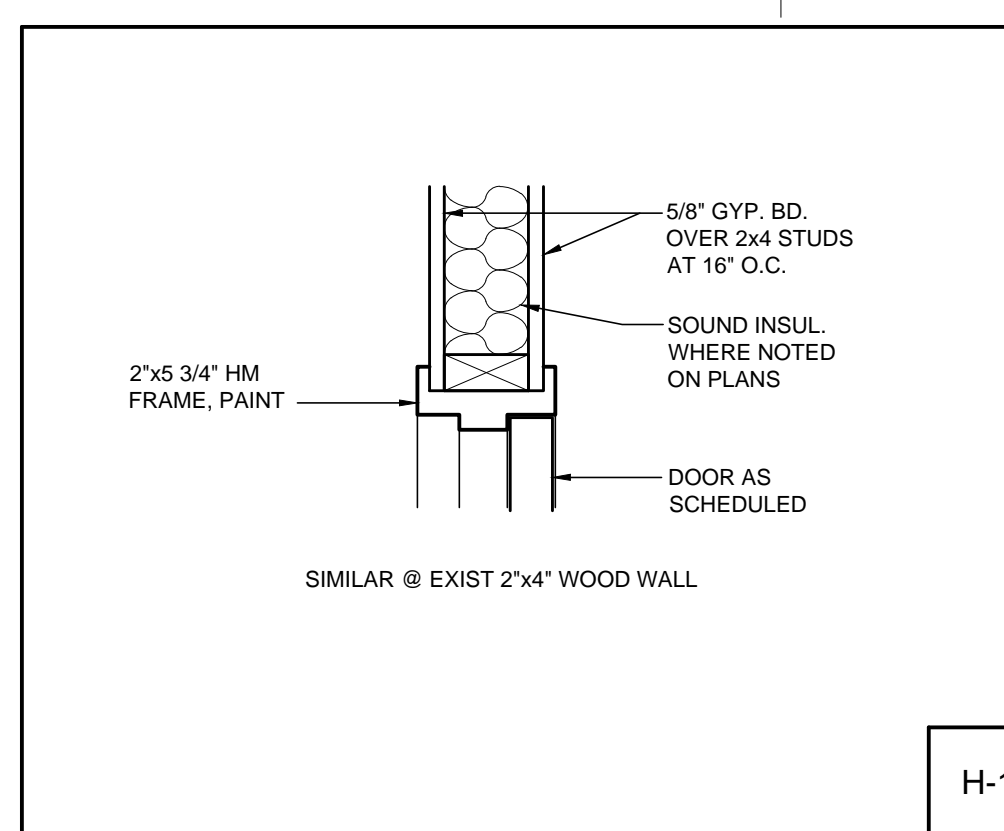
ISSUED DATE
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 01-09-24 PERMITS

DRAWN BY: ANP
DATE: 08-23

PLOT SCALE: 1:1

JOB NO. 45-2902-23

SHEET
A602



PLUMBING LEGEND

PLUMBING CONTRACTOR	P.C.	
GENERAL CONTRACTOR	G.C.	
SITE CONTRACTOR	S.C.	
MECHANICAL CONTRACTOR	M.C.	
ELECTRICAL CONTRACTOR	E.C.	
FIRE PROTECTION CONTRACTOR	F.P.C.	
AUTHORITY HAVING JURISDICTION	A.H.J.	
ABOVE FINISHED FLOOR	A.F.F.	
FIELD VERIFY	F.V.	
SOIL, WASTE OR SANITARY SEWER - ABOVE FLOOR	SAN	— SAN —
SOIL, WASTE OR SANITARY SEWER - BELOW FLOOR	SAN	— SAN —
VENT	V	— V —
DOMESTIC COLD WATER (UNCONDITIONED)	DCW	— DCW —
DOMESTIC HOT WATER	DHW	— DHW —
DOMESTIC HOT WATER RETURN	DHWR	— DHWR —
NATURAL GAS	NG	— NG —
WATER HAMMER ARRESTER	WHA	⊗
PLUMBING DRAINAGE INSTITUTE "SIZE"	PDI	
VENT THRU ROOF	VTR	
CLEANOUT PLUG	CO	
FLOOR CLEANOUT	FCO	
CLEANOUT TO GRADE	COTG	
CONNECT TO EXISTING	CTOE	
SHUTOFF VALVE		
CHECK VALVE		
CIRCUIT SETTER		
THERMOMETER		
PRESSURE GAUGE		
RELIEF VALVE		
SHUTOFF VALVE WITH PLUG		

P.C. GENERAL NOTES:

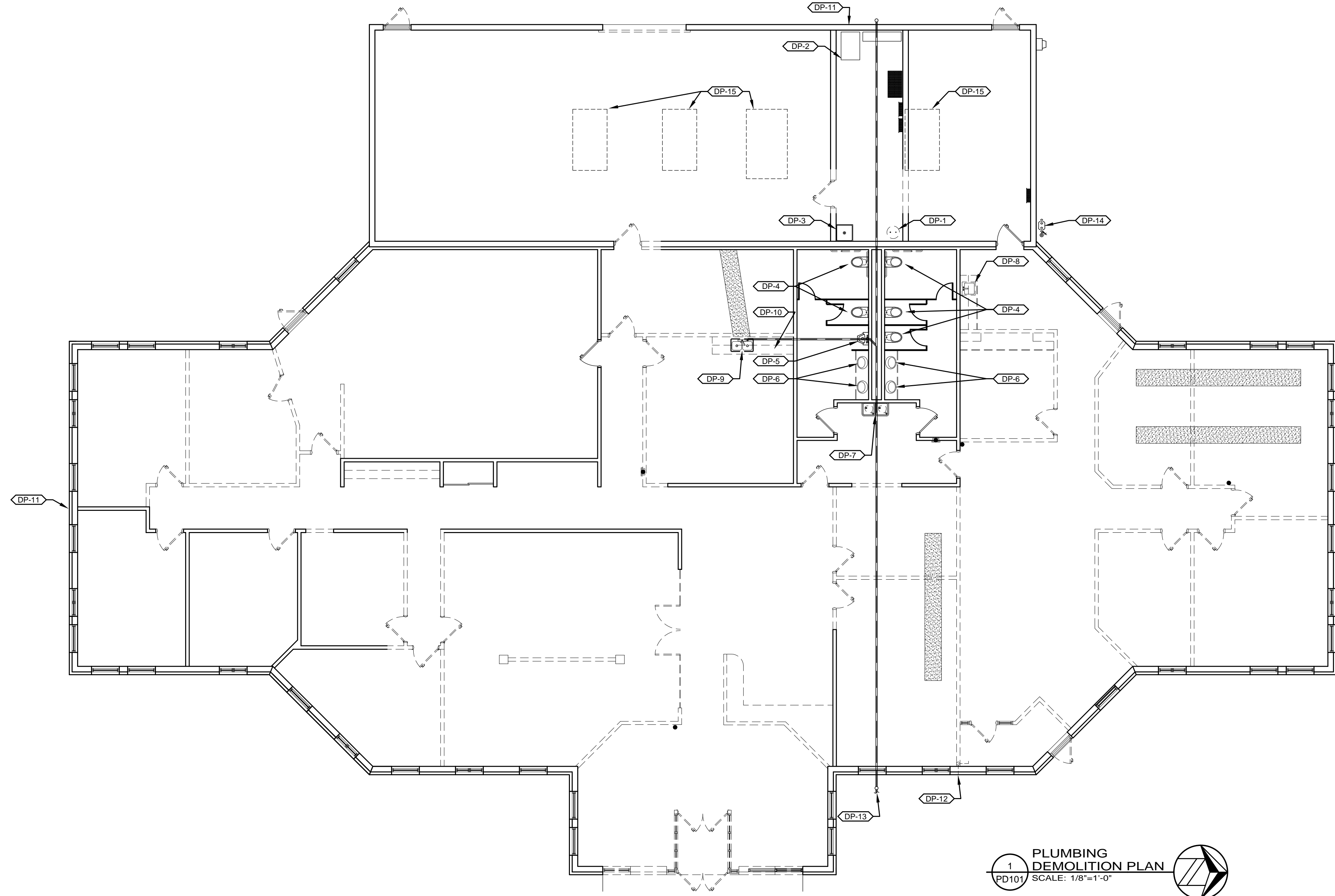
1. COMPLY WITH ALL FEDERAL, STATE, AND LOCAL CODES, ORDINANCES, RULES AND REGULATIONS.
2. PLACEMENT OF FIXTURES AND PIPE ROUTING SHALL BE COORDINATED WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND TRADES.
3. FIELD VERIFY LOCATION OF EQUIPMENT, FIXTURES, AND PIPING TO ENSURE NO INTERFERENCES WITH FIELD CONDITIONS.
4. ALL PLUMBING WORK SHALL BE COORDINATED WITH G.C. E.C. AND M.C. PRIOR TO INSTALLATION.
5. DRAWINGS ARE SCHEMATIC IN NATURE AND MAY NOT SHOW ALL ELEVATION CHANGES AND HORIZONTAL OFFSETS. CONTRACTOR SHALL FIELD ADJUST AS REQUIRED AND SHALL MINIMIZE OFFSETS WHERE POSSIBLE.
6. ALL PIPING SHALL BE ROUTED SO IT IS CONCEALED, AND SHALL NOT BE ROUTED EXPOSED IN ROOMS. (EXCEPT ROOMS WHERE THERE ARE NO CEILINGS OR IF A ROOM IS A UTILITY SPACE)
7. PIPING TO BE INSULATED PER SPECIFICATIONS.

GENERAL DEMOLITION NOTES

1. ALL CONTRACTORS SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND UTILITY LOCATIONS PRIOR TO BIDDING & BEGINNING WORK. IN THE EVENT OF CONFLICTS, CONTRACTOR SHALL SEEK RESOLUTION FROM OWNER AND/OR ARCHITECT PRIOR TO BEGINNING WORK.
2. THE OWNER SHALL RETAIN RIGHTS OF OWNERSHIP FOR ALL SALVAGEABLE MATERIALS, FIXTURES, AND EQUIPMENT REMOVED. SALVAGED ITEMS SHALL BE RELOCATED OR PLACED IN STORAGE AS DIRECTED BY OWNER. NON-SALVAGEABLE MATERIALS OR ITEMS THEY DO NOT WANT SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF BY THE CONTRACTOR.
3. ANY PLUMBING FIXTURES BEING REMOVED AND SALVAGED FOR REUSE (SEE KEYNOTES) SHALL BE PROPERLY STORED AND PROTECTED FROM DAMAGE UNTIL FIXTURES ARE READY FOR INSTALLATION. FIXTURES SHALL BE THOROUGHLY CLEANED AFTER INSTALLATION.
4. THE LOCATIONS AND SIZES OF EXISTING UNDER SLAB SANITARY LINES MUST BE FIELD VERIFIED PRIOR TO ANY SAW CUTTING OF FLOOR SLABS.
5. P.C. SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND TRACE EXISTING SUPPLY PIPING MAINS, BRANCHES AND FEEDS TO ALL EXISTING LOCATIONS AND FIXTURES PRIOR TO SHUTTING OFF WATER AND REMOVING EXISTING PIPING.

PLUMBING DEMOLITION PLAN NOTES

1. REMOVE EXISTING WATER HEATER AND ASSOCIATED FLUE AND NATURAL GAS PIPING. DCW AND DHW PIPING TO BE RECONNECTED TO NEW ELECTRIC WATER HEATER.
2. EXISTING WATER METER AND BACKFLOW PREVENTER TO REMAIN.
3. EXISTING SERVICE SINK TO REMAIN.
4. EXISTING WALL HUNG WATER CLOSET AND FLUSH VALVE TO BE REMOVED TO ALLOW FOR NEW WALL FINISHES TO BE INSTALLED. AFTER NEW FINISHES ARE INSTALLED, CONTRACTOR SHALL REINSTALL WATER CLOSET AND FLUSH VALVE.
5. EXISTING WALL HUNG URINAL TO BE REMOVED TO ALLOW FOR NEW WALL FINISHES TO BE INSTALLED. AFTER NEW FINISHES ARE INSTALLED, CONTRACTOR SHALL REINSTALL URINAL AND FLUSH VALVE.
6. EXISTING COUNTERTOP LAVATORY AND FAUCET TO BE REMOVED AND DISPOSED OF. EXISTING ANGLE SUPPL. STOPS AND DRAIN TO REMAIN.
7. EXISTING BI-LEVEL WATER FOUNTAIN TO BE REMOVED AND DISPOSED OF. CAP SANITARY AND DCW PIPING IN WALL CAVITY.
8. EXISTING SINK AND FAUCET TO BE REMOVED AND DISPOSED OF. REMOVE ANGLE SUPPLY STOPS. CAP SANITARY, DHW, AND DCW PIPING IN WALL CAVITY.
9. EXISTING SINK, FAUCET, AND GARBAGE DISPOSAL TO BE REMOVED AND DISPOSED OF. REMOVE ANGLE SUPPLY STOPS. EXTEND SANITARY, DCW, DHW AND VENT TO NEW SINK LOCATION. SEE NEW SINK LOCATION ON SHEET P101.
10. EXISTING DISHWASHER TO BE REMOVED AND DISPOSED OF. REMOVE DHW TO ABOVE CEILING AND CAP ABOVE CEILING.
11. EXISTING WALL FAUCET TO REMAIN.
12. EXISTING WALL FAUCET TO BE ABANDONED IN BRICK WALL. CUT OFF EXCESS THAT PROTRUDES INTO ROOM. DCW PIPING SHALL BE REMOVED TO ABOVE CEILING AND EXTENDED TO NEW HOSE BIBB.
13. EXISTING COTG. CONTRACTOR TO SNAKE OUT FROM CLEANOUT TO UTILITY MAIN. GRIND UP ANY TREE ROOTS IN SYSTEM AND DOCUMENT LOCATION OF ROOT PENETRATION. RUN CAMERA THRU SYSTEM AND VERIFY IF THE PIPING IS DAMAGED.
14. EXISTING NG METER SET. NO CHANGE TO EXISTING NG SERVICE OR INTERIOR PIPING.
15. EXISTING PACKAGED ROOFTOP UNITS TO BE REMOVED BY M.C. P.C. TO DISCONNECT NG PIPING AND RECONNECT TO NEW PACKAGE ROOFTOP UNITS.



1 PLUMBING DEMOLITION PLAN
 PD101 SCALE: 1/8"=1'-0"



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PLUMBING DEMOLITION PLAN

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 01-09-24 PERMITS

DRAWN BY: SAB

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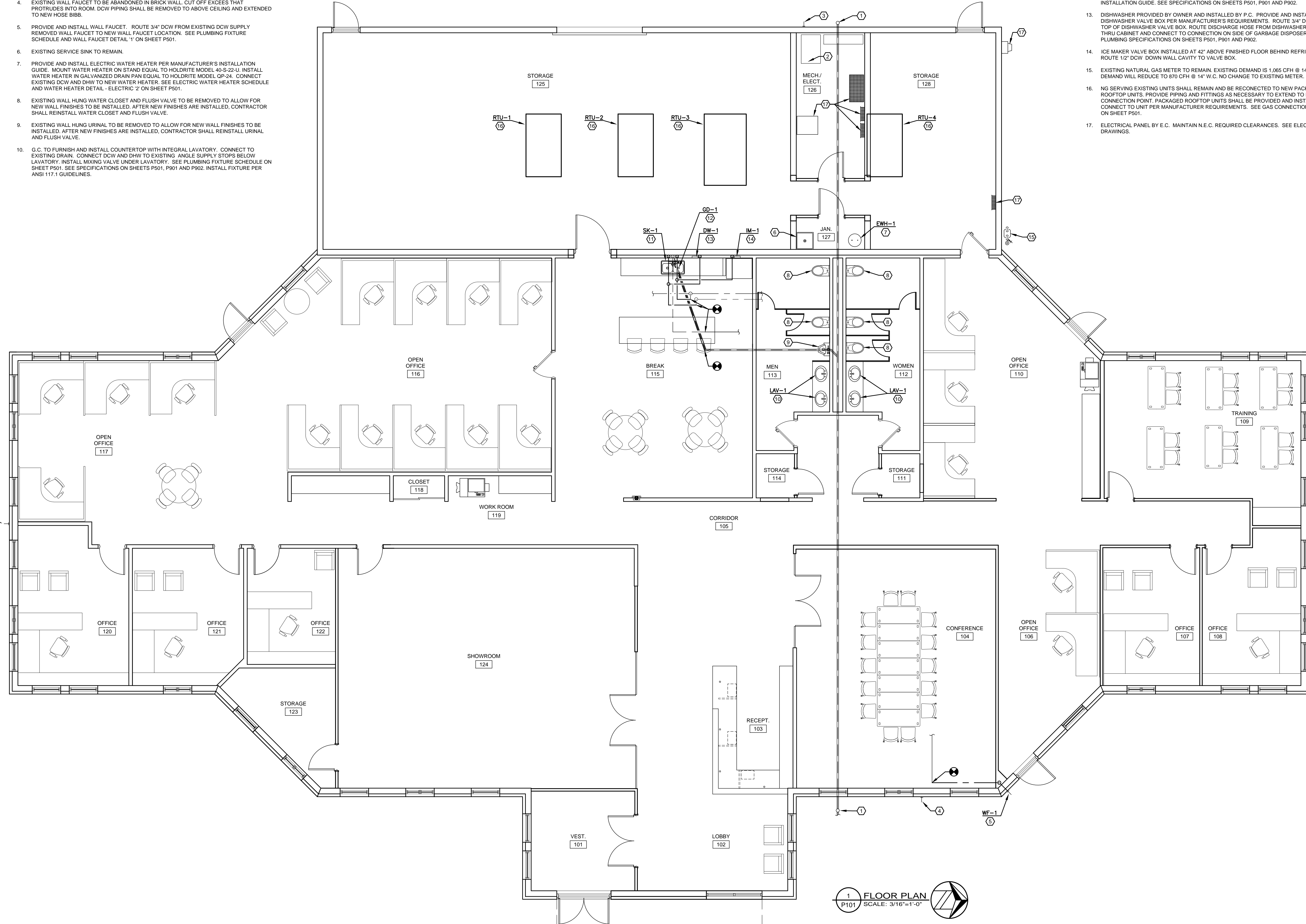
PLOT SCALE: 1:1

JOB NO. 45-2902-23

SHEET
 PD101

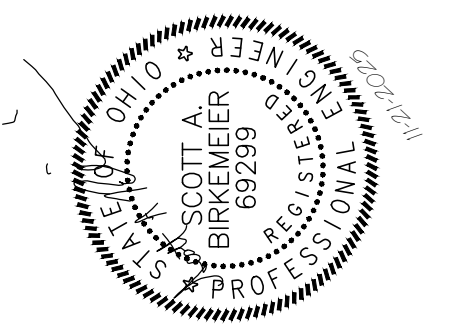
KEY NOTES

- EXISTING COTG. CONTRACTOR TO SNAKE OUT FROM CLEANOUT TO UTILITY MAIN. GRIND UP ANY TREE ROOTS IN SYSTEM AND DOCUMENT LOCATION OF ROOT PENETRATION. RUN CAMERA THRU SYSTEM AND VERIFY IF THE PIPING IS DAMAGED.
- EXISTING WATER METER AND BACKFLOW PREVENTER TO REMAIN. FLUSH SYSTEM AFTER CONSTRUCTION.
- EXISTING WALL FAUCET TO REMAIN.
- EXISTING WALL FAUCET TO BE ABANDONED IN BRICK WALL. CUT OFF EXCESSES THAT PROTRUDE INTO ROOM. DCW PIPING SHALL BE REMOVED TO ABOVE CEILING AND EXTENDED TO NEW HOSE BIBB.
- PROVIDE AND INSTALL WALL FAUCET. ROUTE 3/4" DCW FROM EXISTING DCW SUPPLY REMOVED WALL FAUCET TO NEW WALL FAUCET LOCATION. SEE PLUMBING FIXTURE SCHEDULE AND WALL FAUCET DETAIL '1' ON SHEET P501.
- EXISTING SERVICE SINK TO REMAIN.
- PROVIDE AND INSTALL ELECTRIC WATER HEATER PER MANUFACTURER'S INSTALLATION GUIDE. MOUNT WATER HEATER ON STAND EQUAL TO HOLDRITE MODEL 40-S-22-U. INSTALL WATER HEATER IN GALVANIZED DRAIN PAN EQUAL TO HOLDRITE MODEL QP-24. CONNECT EXISTING DCW AND DHW TO NEW WATER HEATER. SEE ELECTRIC WATER HEATER SCHEDULE AND WATER HEATER DETAIL - ELECTRIC '2' ON SHEET P501.
- EXISTING WALL HUNG WATER CLOSET AND FLUSH VALVE TO BE REMOVED TO ALLOW FOR NEW WALL FINISHES TO BE INSTALLED. AFTER NEW FINISHES ARE INSTALLED, CONTRACTOR SHALL REINSTALL WATER CLOSET AND FLUSH VALVE.
- EXISTING WALL HUNG URINAL TO BE REMOVED TO ALLOW FOR NEW WALL FINISHES TO BE INSTALLED. AFTER NEW FINISHES ARE INSTALLED, CONTRACTOR SHALL REINSTALL URINAL AND FLUSH VALVE.
- G.C. TO FURNISH AND INSTALL COUNTERTOP WITH INTEGRAL LAVATORY. CONNECT TO EXISTING DRAIN. CONNECT DCW AND DHW TO EXISTING ANGLE SUPPLY STOPS BELOW LAVATORY. INSTALL MIXING VALVE UNDER LAVATORY. SEE PLUMBING FIXTURE SCHEDULE ON SHEET P501. SEE SPECIFICATIONS ON SHEETS P501, P901 AND P902. INSTALL FIXTURE PER ANSI 117.1 GUIDELINES.



KEY NOTES (CONTINUED)

- SUPPLY AND INSTALL SINK PER MANUFACTURER'S REQUIREMENTS. PROVIDE CUTOUT TEMPLATE TO G.C. G.C. SHALL CUTOUT COUNTERTOP. ROUTE 1/2" DCW AND DHW FROM EXISTING BRANCH CONNECTIONS ABOVE CEILING, DOWN WALL CAVITY TO FIXTURE. INSTALL ANGLE SUPPLY STOPS UNDER CABINET. ROUTE 2" SAN BELOW FLOOR TO EXISTING SINK BRANCH. ROUTE 1 1/2" VENT TO UP WALL CAVITY AND THRU CEILING SPACE TO EXISTING VENT BRANCH. SEE SANITARY ISOMETRIC ON SHEET P201. SEE PLUMBING FIXTURE SCHEDULE ON SHEET P501. SEE SPECIFICATION ON SHEETS P501, P901 AND P902.
- PROVIDE AND INSTALL GARBAGE DISPOSER UNDER SINK PER MANUFACTURER'S INSTALLATION GUIDE. SEE SPECIFICATIONS ON SHEETS P501, P901 AND P902.
- DISHWASHER PROVIDED BY OWNER AND INSTALLED BY P.C. PROVIDE AND INSTALL DISHWASHER VALVE BOX PER MANUFACTURER'S REQUIREMENTS. ROUTE 3/4" DHW DOWN TO TOP OF DISHWASHER VALVE BOX. ROUTE DISCHARGE HOSE FROM DISHWASHER AND ROUTE THRU CABINET AND CONNECT TO CONNECTION ON SIDE OF GARBAGE DISPOSER. SEE PLUMBING SPECIFICATIONS ON SHEETS P501, P901 AND P902.
- ICE MAKER VALVE BOX INSTALLED AT 42" ABOVE FINISHED FLOOR BEHIND REFRIGERATOR. ROUTE 1/2" DCW DOWN WALL CAVITY TO VALVE BOX.
- EXISTING NATURAL GAS METER TO REMAIN. EXISTING DEMAND IS 1,065 CFH @ 14" W.C. NEW DEMAND WILL REDUCE TO 870 CFH @ 14" W.C. NO CHANGE TO EXISTING METER.
- NG SERVING EXISTING UNITS SHALL REMAIN AND BE RECONNECTED TO NEW PACKAGED ROOFTOP UNITS. PROVIDE PIPING AND FITTINGS AS NECESSARY TO EXTEND TO NEW UNIT CONNECTION POINT. PACKAGED ROOFTOP UNITS SHALL BE PROVIDED AND INSTALLED BY M.C. CONNECT TO UNIT PER MANUFACTURER REQUIREMENTS. SEE GAS CONNECTION DETAIL '3' ON SHEET P501.
- ELECTRICAL PANEL BY E.C. MAINTAIN N.E.C. REQUIRED CLEARANCES. SEE ELECTRICAL DRAWINGS.



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PLUMBING FLOOR PLAN

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 01-09-24 PERMITS

DRAWN BY: SAB

DATE: 08-23

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JOB NO. 45-2902-23

SHEET P101

1 FLOOR PLAN
 P101 SCALE: 3/16"=1'-0"

DIVISION 22 - PLUMBING SPECIFICATIONS

L. THERMOMETERS

THERMOMETER SHALL BE WEISS MODEL 9VU35, VARIABLE ANGLE, MERCURY FILLED THERMOMETER WITH SEPARABLE BRASS WELL MODEL E35-75BS. TEMPERATURE RANGE SHALL BE 0° - 80° FOR COLD WATER SYSTEMS, 30° - 240° FOR HOT WATER SYSTEMS.

THERMOMETER SHALL BE INSTALLED IN A MANNER THAT INSURES THAT THE BULB OF THE THERMOMETER WILL BE IN A FLOW OF FLUID AND YET NOT IMPAIR THE FLOW OF THE FLUID. INCREASE PIPE SIZE AT THIS POINT IF REQUIRED.

ACCEPTABLE MANUFACTURERS INCLUDE WEISS, TRERICE, ASHCROFT, PALMER, VERSA, WEKSLER AND MARSH.

M. PRESSURE GAUGES

PRESSURE GAUGES SHALL BE WEISS MODEL 4CTS, 4-1/2" DIAL PRESSURE GAUGE, RANGE 0-60 PSI COMPLETE WITH WEISS MODEL PSN-B SNUBBER AND WEISS MODEL 25NVR NEEDLE VALVE.

ACCEPTABLE MANUFACTURERS INCLUDE WEISS, TRERICE, ASHCROFT, PALMER, VERSA, WEKSLER AND MARSH.

N. PRESSURE AND TEMPERATURE TEST PORTS

SUPPLY AND INSTALL WHERE INDICATED "PETE'S PLUG" TEST PORT AS MANUFACTURED BY PETERSON ENGINEERING COMPANY CONSISTING OF A 1/4" MPT FITTING TO RECEIVE 1/8" TEMPERATURE OR PRESSURE PROBES. FITTING SHALL BE SOLID BRASS FOR COPPER PIPING AND STAINLESS STEEL FOR FERROUS PIPING. FITTINGS SHALL HAVE TWO VALVE CORES OF NEOPRENE FOR SERVICE AT 500 PSI AND A COLOR-CODED CAP WITH GASKET RATED AT 1000 PSI. PROVIDE THE EXTRA LONG MODEL FOR ANY PIPING THAT IS WRAPPED WITH INSULATION.

PROVIDE TWO PRESSURE GAUGE ADAPTERS WITH 1/8" OD PROBE ONE RANGING FROM 0 TO 30 IN W.C. VACUUM AND ONE 0 TO 100 PSI. PROVIDE TWO 5" STEM TESTING THERMOMETERS ONE WITH A RANGE OF 25° TO 125°, AND ONE WITH A RANGE OF 0° TO 220°.

ACCEPTABLE MANUFACTURERS INCLUDE PETERSON ENGINEERING COMPANY, SUZUKI PLUGS, AND FLOW DESIGN, INC.

42. WATER HEATER (ELECTRIC):

- HEATER CAPACITY AND ELECTRICAL CHARACTERISTIC AS INDICATED IN ELECTRIC WATER HEATER SCHEDULE ON SHEET P501.
- THE TANK SHALL BE RATED FOR 150 PSI WORKING PRESSURE. THE TANK SHALL BE GLASS LINED WITH MAGNESIUM ANODE PROTECTION AND FACTORY INSULATED PER ASHRAE 90A LATEST EDITION. THE OUTER STEEL JACKET SHALL HAVE A BAKED ENAMEL FINISH.
- HEATING SHALL INCLUDE ASME STAMPED TEMPERATURE AND PRESSURE RELIEF VALVE, HIGH TEMPERATURE LIMIT CONTROL, THERMOSTAT AND DRAIN VALVE.
- THE WATER HEATER SHALL BE U. L. LISTED AND CARRY A MINIMUM THREE YEAR GUARANTEE AGAINST DEFECTS IN WORKMANSHIP AND MATERIAL.
- UNIT SHALL BE COMPLETELY FACTORY WIRED, PIPED, TESTED AND APPROVED FOR INSTALLATION, REQUIRING ONLY CONNECTIONS OF WATER AND POWER SOURCE FOR OPERATION.
- ACCEPTABLE MANUFACTURERS INCLUDE LOCHINVAR, RUDD, STATE, A.O. SMITH OR BRADLEY.

43. THERMAL EXPANSION TANK

- TANK SHALL BE DIAPHRAGM-TYPE, PRE-PRESSURIZED WATER TANK OF SIZE, CAPACITY AND ORIENTATION AS INDICATED ON DRAWINGS.
- CONSTRUCTION SHALL BE HOT-DIPPED GALVANIZED STEEL WITH WELDED JOINTS FOR 150 PSI WORKING PRESSURE. HEAVY DUTY BUTYL DIAPHRAGM, SEPARATE RIGID POLYPROPYLENE LINED WATER RESERVOIR, AIR CHARGING VALVE, STURDY SUPPORT SKIRT ON LARGER MODELS AND ACCEPTANCE FITTING WITH INNER SLEEVE. NSF LISTED.
- EXPANSION TANK SHALL BE ASME CONSTRUCTED.

44. PLUMBING IDENTIFICATION:

- GENERAL

ALL NEW PIPING, PLUMBING EQUIPMENT AND VALVES SHALL BE IDENTIFIED USING EITHER PREPRINTED LABELS, COILED PLASTIC MARKERS, MANUFACTURED NAMEPLATES, OR BY USING STENCILS AND ENAMEL PAINT.

THE IDENTIFICATION DEVICE'S CHARACTERS SIZE, COLOR, LENGTH OF COLOR FIELD, AND INSTALLED VIEWING ANGLE SHALL COMPLY WITH ANSI 13.1.

NAMES, ABBREVIATIONS, AND OTHER DESIGNATIONS SHALL BE COORDINATED WITH OWNER IN ORDER TO BE CONSISTENT WITH ANY EXISTING IDENTIFICATION SYSTEM.

TAGS AND LABELS SHALL BE MANUFACTURED BY MARKING SERVICES, W.H. BRADY, SETON NAME PLATE, OR EQUAL.
- PIPING

ALL NEW PIPING, EITHER EXPOSED OR IN AN ACCESSIBLE SPACE, SHALL BE IDENTIFIED AS TO SERVICE AND NORMAL DIRECTION OF FLOW.

MARKERS SHALL BE LOCATED AT A MAXIMUM OF 25 FOOT INTERVALS IN LONG STRAIGHT RUNS, AT ALL MAJOR CHANGES OF DIRECTION, AT EACH BRANCH CONNECTION, EACH RISER, ALL EQUIPMENT CONNECTIONS, NEAR EACH VALVE AND CONTROL DEVICE, AND BOTH SIDES OF A WALL OR FLOOR THROUGH WHICH A PIPE PASSES.

AT THE OWNER'S OPTION, IDENTIFICATION MAY BE OMITTED IN ARCHITECTURALLY FINISHED AREAS.
- PLUMBING EQUIPMENT

EACH NEW PIECE OF PLUMBING EQUIPMENT SHALL BE IDENTIFIED USING THE NUMBER ASSIGNED THE UNIT EITHER ON THE DRAWINGS OR BY THE OWNER.

ENGRAVED METAL NAMEPLATES SHALL BE USED WHERE PEAK SURFACE TEMPERATURE WILL EXCEED 150°F, OTHERWISE ENGRAVED PLASTIC NAMEPLATES ARE ACCEPTABLE. NAMEPLATE SHALL BE 4" X 1 1/2". THE BACKGROUND SHALL BE WHITE AND TEXT SHALL BE BLACK. EACH PLATE SHALL BE ATTACHED WITH TWO CORROSION RESISTANT FASTENERS, WHERE SCREWS ARE NOT PRACTICAL A SUITABLE ADHESIVE SHALL BE USED. BEFORE APPLYING ADHESIVE BOTH SURFACES SHALL BE THOROUGHLY DEGREASED AND CLEANED.

TAGS SHALL ALSO INCLUDE PANEL AND CIRCUIT BREAKER DESIGNATIONS.
- VALVE TAGS

CONTRACTOR SHALL PROVIDE A NUMBERED BRASS TAG, APPROXIMATELY 2" IN DIAMETER, CHAINED TO HAND WHEEL OF EACH VALVE, EXCEPT LOCAL STOP OR SHUTOFF VALVES TO AN ITEM OF EQUIPMENT. ATTACH TAG TO VALVE WITH NON-RUSTING "S" HOOK OF ADEQUATE SIZE. EACH TAG SHALL BE STAMPED WITH AN IDENTIFICATION NUMBER, SERVICE DESIGNATION, AND WHETHER THE VALVE IS NORMALLY-CLOSED OR NORMALLY-OPEN IN SERVICE (N.C. OR N.O.). WHERE APPLICABLE, AFTER THE ABOVE SYMBOLS, ADD "S" FOR SUPPLY AND "R" FOR RETURN PIPING.

A VALVE SCHEDULE SHALL BE SUBMITTED FOR EACH PIPING SYSTEM. EACH SCHEDULE SHALL BE TYPED ON 8 1/2" X 11", AND SHALL LIST EACH VALVE IDENTIFICATION NUMBER AND SYSTEM ABBREVIATION AS THEY APPEAR ON THE TAG. THE SCHEDULE SHALL ALSO LIST THE VALVES SIZE, MANUFACTURER, TYPE, SERVICE, LOCATION AND WHETHER IT IS NO OR NC.

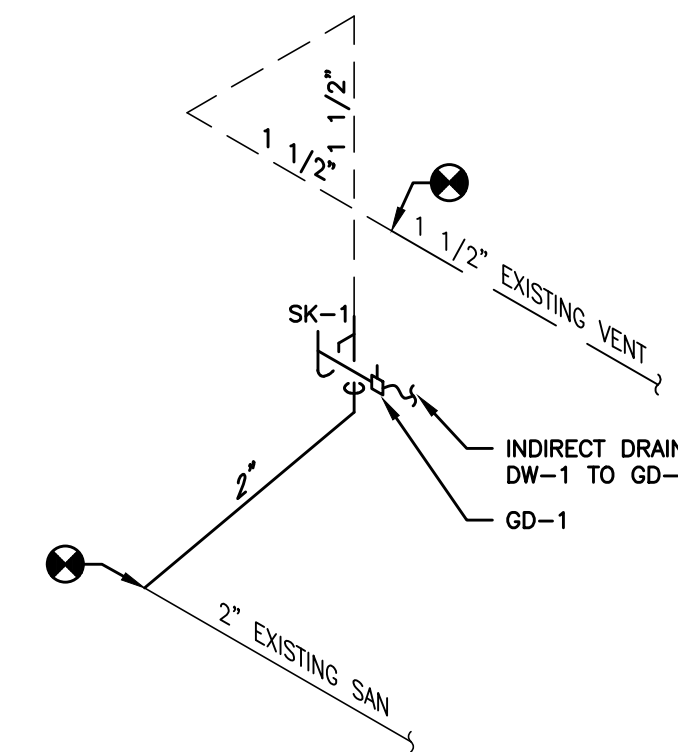
45. OPERATING INSTRUCTIONS:

- CONTRACTOR SHALL PROVIDE FOUR (4) COMPLETE MANUALS IN HARDBACKED BINDERS, EACH CONTAINING ALL OPERATING, SERVICING, LUBRICATION, ETC. INFORMATION AND PARTS LISTS FOR ALL EQUIPMENT INSTALLED UNDER THIS CONTRACTOR'S CONTRACT. MATERIAL SHALL BE GROUPED TOGETHER BY TRADES, EACH ITEM MARKED WITH A TAB, AND AN INDEX SHALL BE PROVIDED. WHERE DIAGRAMS ARE TOO LARGE FOR THE BINDER, ARRANGE FOLDER POCKETS WITH REINFORCED HOLES TO HOLD FOLDED DRAWINGS. MANUALS TO BE SUBMITTED FOR APPROVAL AT LEAST THIRTY (30) DAYS BEFORE COMPLETION OF THE WORK.
- MANUALS TO INCLUDE:
 - STEP-BY-STEP PROCEDURES FOR START-UP AND SHUT-DOWN OF EACH SYSTEM AND PIECE OF EQUIPMENT.
 - NORMAL EQUIPMENT OPERATING CHARACTERISTICS.
 - PERFORMANCE DATA, CURVES, RATINGS.
 - WIRING DIAGRAMS.
 - MANUFACTURER'S DESCRIPTIVE LITERATURE.
 - SPARE PARTS AND REPLACEMENT LIST FOR EACH PIECE OF EQUIPMENT.
 - NAME OF SERVICE AGENCY, INSTALLER AND SUPPLIERS, AND THEIR TELEPHONE NUMBERS.
 - FINAL REVIEWED SHOP DRAWINGS.
 - CERTIFICATES OF TESTS AND APPROVALS.
 - PLUMBING IDENTIFICATION LISTS.
- CONTRACTOR SHALL ARRANGE FOR TECHNICAL INSTRUCTION OF THE OWNER'S MAINTENANCE PERSONNEL BY QUALIFIED INSTRUCTORS FOR SUCH TIME AS IS REASONABLY REQUIRED TO INSTRUCT THEM IN THE OPERATION AND MAINTENANCE OF ALL PLUMBING SYSTEMS. INSTRUCTION PERIOD SHALL BE AFTER ALL SYSTEMS ARE IN OPERATION, AND HAVE BEEN ADJUSTED. CONTRACTOR SHALL VIDEO ALL TRAINING SESSIONS. COPY OF VIDEO SHALL BE INCLUDED WITH CLOSEOUT MATERIALS FOR FUTURE REFERENCE BY THE OWNER.
- SEE PROJECT MANUAL SECTION '017900 - DEMONSTRATION AND TRAINING' FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL BUILD A HEAVY GAUGE SHEET METAL BOX WITH LOCK STAPLE, HINGES AND HASP, OF SUFFICIENT SIZE, 30" X 12" X 12" MINIMUM, TO HOLD THE FOLLOWING ITEMS: A COMPLETE SET OF CONTRACT DRAWINGS, SPECIFICATIONS AND THE ABOVE MENTIONED MAINTENANCE BOOK. INSTALL BOX AS DIRECTED BY OWNER.

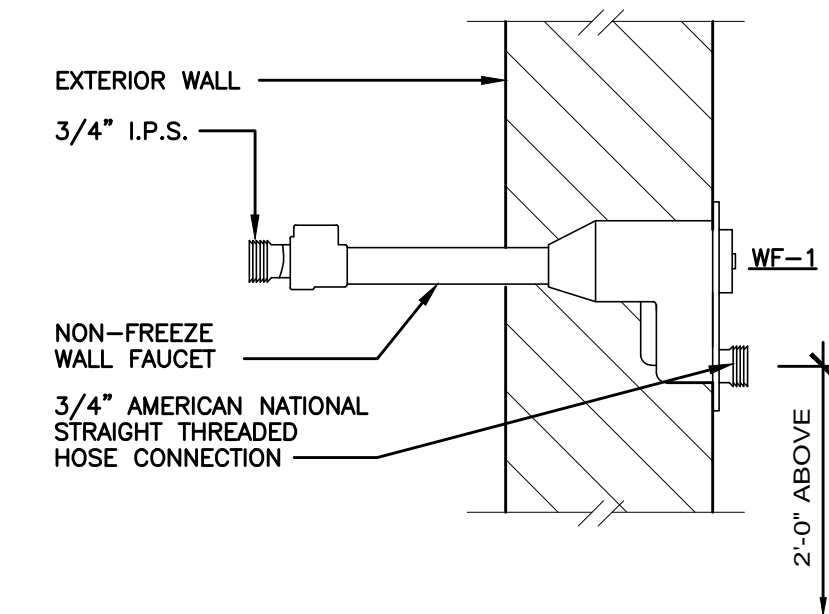
PLUMBING FIXTURE SCHEDULE					
TAG	DESCRIPTION	DCW	DHW	SAN	VENT
LAV-1	LAVATORY - INTEGRAL TO COUNTERTOP - ADA HEIGHT (34")	1/2"	1/2"	1 1/2"	1 1/2"
SK-1	SINK - TWO COMPARTMENT - STAINLESS STEEL	1/2"	1/2"	1 1/2"	1 1/2"
GD-1	GARBAGE DISPOSAL	---	---	2"	---
DW-1	DISHWASHER	---	1/2"	---	---
IM-1	ICE MAKE VALVE BOX	1/2"	---	---	---
WF-1	WALL FAUCET	3/4"	---	---	---

ELECTRIC WATER HEATER SCHEDULE														
TAG	DIMENSIONS	HEIGHT	STORAGE GALLONS	TOTAL (KW)	NO. OF ELEMENTS	KW PER ELEMENT	EWT (°F)	LWT (°F)	RECOVERY (GPH)	POWER		MAKE	MODEL	REMARKS
										VOLTAGE	AMPS			
EW-1	22"Ø	31"	30	4.5	1	4.5	55	120	25	208/1/60	21.6	STATE	PCE 30 20LSA	

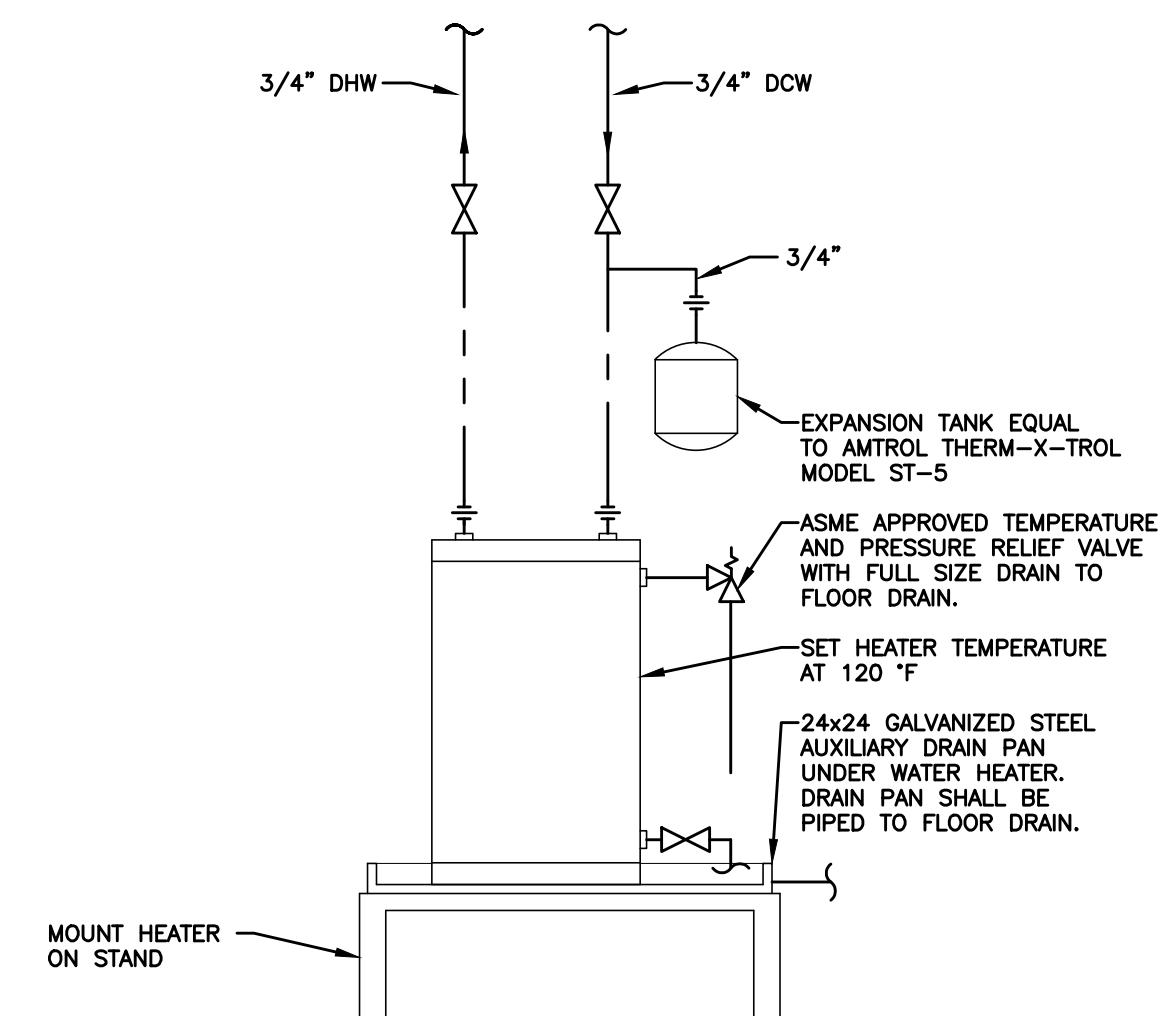
PIPING INSULATION SCHEDULE						
SERVICE	PIPE SIZE					
	ALL PIPING	RUNOUTS	1" & BELOW	1 1/4" - 2"	2 1/2" - 4"	ABOVE 4"
DOMESTIC COLD WATER, DCW	---	---	1/2"	1/2"	1"	1"
DOMESTIC HOT WATER, DHW	---	---	1/2"	1"	1"	1 1/2"
DOMESTIC HOT WATER RECIRCULATING, DHWR	---	---	1/2"	1"	1"	1 1/2"



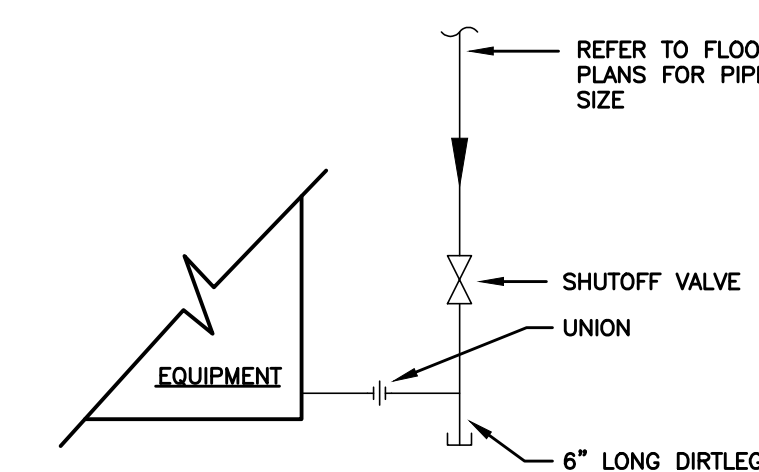
1 SANITARY ISOMETRIC
SCALE: NONE



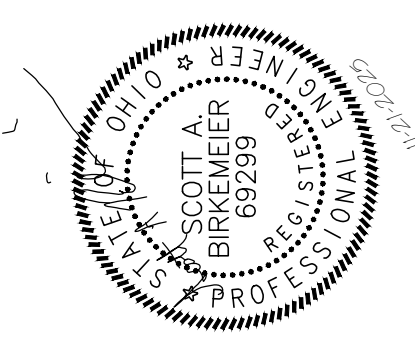
1 WALL FAUCET DETAIL
SCALE: NONE



2 WATER HEATER DETAIL - ELECTRIC
SCALE: NONE



3 GAS CONNECTION DETAIL
SCALE: NONE



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PLUMBING DETAILS, SCHEDULES, AND SPECIFICATIONS

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01-09-24 PERMITS

DRAWN BY: SAB

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P501

DIVISION 22 - PLUMBING SPECIFICATIONS

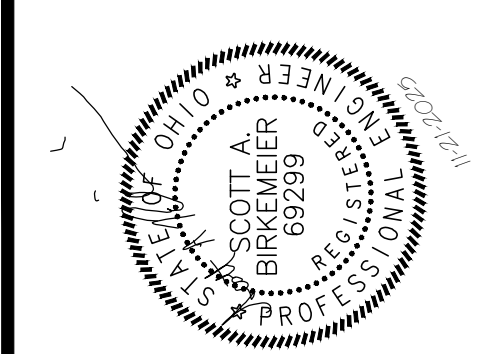
1. SCOPE OF WORK: WORK COVERED BY THIS SPECIFICATION AND DESIGN DRAWINGS SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR...

10. ICC COMPLIANCE: ALL FIXTURES, EQUIPMENT, CONTROLS AND DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF AMERICANS WITH DISABILITIES ACT (ADA), ICC A117.1, STATE BUILDING CODE, AND LOCAL CODES MAY APPLY.

19. CUTTING AND PATCHING: ALL CUTTING AND PATCHING OF, OR REPAIR OF DAMAGE TO WORK IN PLACE SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER.

EXCESS EXCAVATED MATERIALS AND DEBRIS SHALL BE REMOVED FROM THE SITE BY CONTRACTOR MAKING THE EXCAVATION.

2) BEFORE ANY PIPE WELDING IS PERFORMED, THE CONTRACTOR SHALL HAVE IN HIS FILES, A COPY OF HIS WELDING PROCEDURES SPECIFICATION TOGETHER WITH PROOF OF ITS QUALIFICATION AS OUTLINED AND REQUIRED BY THE MOST RECENT ISSUE OF THE CODE HAVING JURISDICTION.



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BUILDING RENOVATIONS PERRY PROTECH 1270 FLAGSHIP DRIVE PERRYSBURG, OH 43551

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PLUMBING SPECIFICATIONS

ISSUED DATE 11-21-23 BIDDING & PERMITS 01-09-24 PERMITS

DRAWN BY: SAB

DATE: 08-23

PLOT SCALE: 1:1

JOB NO. 45-2902-23

SHEET P901

(SEE CONTINUATION ON SHEET P902.)

MECHANICAL LEGEND AND ABBREVIATIONS

MECHANICAL CONTRACTOR	M.C.
GENERAL CONTRACTOR	G.C.
ELECTRICAL CONTRACTOR	E.C.
PLUMBING CONTRACTOR	P.C.
PACKAGED AIR CONDITIONING UNIT	RTU
VARIABLE REFRIGERANT FLOW HEAT PUMP	VRHP
VARIABLE REFRIGERANT FLOW INDOOR UNIT	VRU
FAN	F
CONTROL DAMPER	CD
FIELD VERIFY	F.V.
ABOVE FINISHED FLOOR	A.F.F.
BELOW FINISHED FLOOR	B.F.F.
BOTTOM OF GRILLE	B.O.G.
TOP OF GRILLE	T.O.G.
BOTTOM OF DUCT	B.O.D.
TOP OF DUCT	T.O.D.
BOTTOM OF LOUVER	B.O.L.
TOP OF LOUVER	T.O.L.
AUTHORITY HAVING JURISDICTION	A.H.J.
SUPPLY AIR	SA
RETURN AIR	RA
EXHAUST AIR	EA
OUTSIDE AIR	QA
BREAK IN PIPE	⊕
DIRECTION OF FLOW IN PIPE	→
PIPE DROP	○
PIPE RISE	○
TAKE-OFF TOP OF PIPE	○
TAKE-OFF BOTTOM OF PIPE	○
FIRE SUPPRESSION PULL STATION	Ⓢ
CARBON DIOXIDE SENSOR/CONTROLLER	Ⓢ
AIR DEVICE TAG-AIRFLOW RATE, CFM	x-xxx
RECTANGULAR DUCT SIZE, CLEAR INSIDE, A = PLAN WIDTH, B = PLAN DEPTH	AxB
OVAL DUCT SIZE, CLEAR INSIDE, A = PLAN WIDTH, B = PLAN DEPTH	AxB
AIR VOLUME CONTROL DAMPER	Ⓢ
ELBOW WITH TURNING VANES	Ⓢ
SUPPLY DUCTWORK UP, DOWN	Ⓢ
RETURN AND EXHAUST DUCTWORK UP, DOWN	Ⓢ
SQUARE TO ROUND TRANSITION	Ⓢ

M.C. GENERAL NOTES:

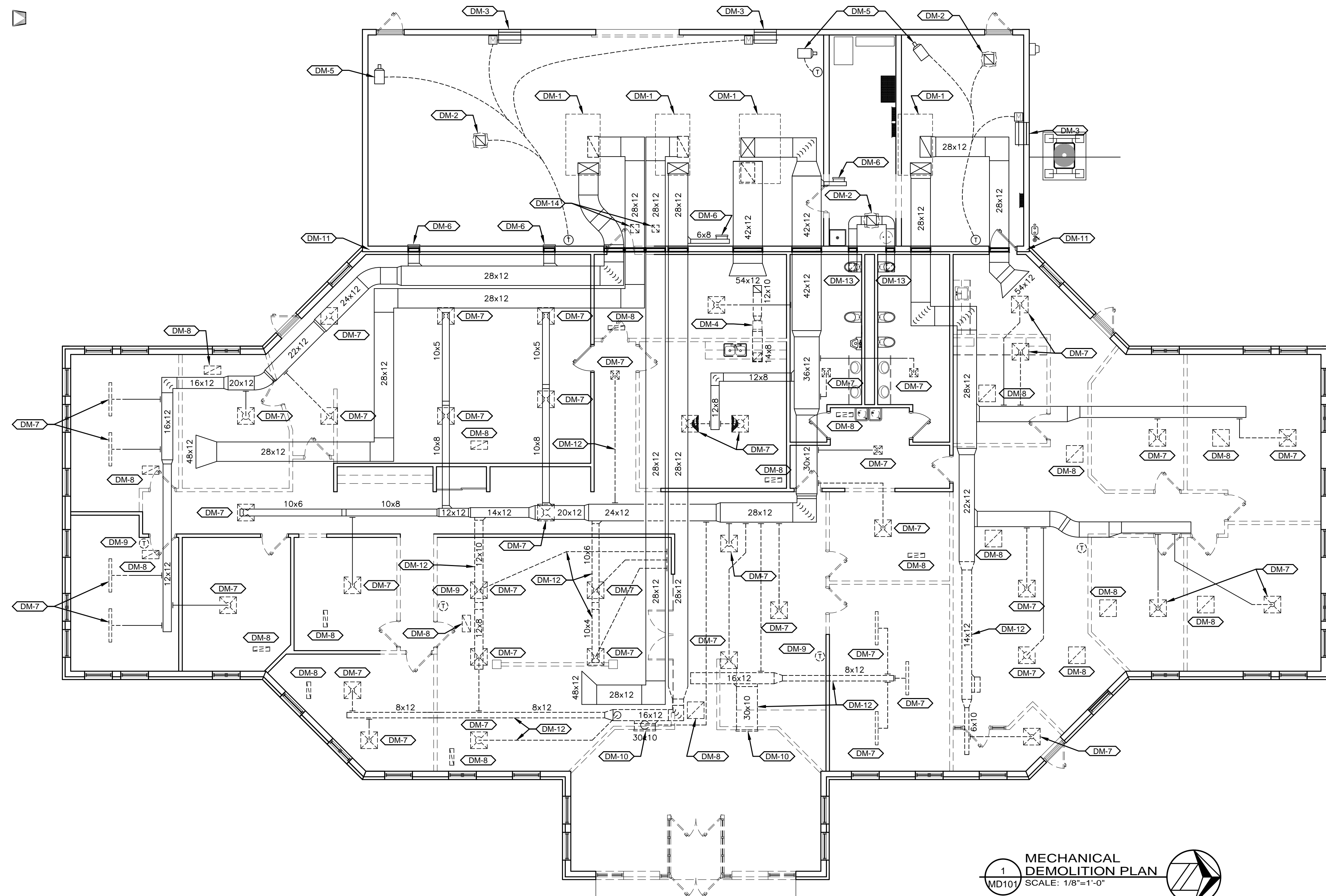
- COMPLY WITH ALL FEDERAL, STATE, AND LOCAL CODES, ORDINANCES, RULES AND REGULATIONS.
- PLACEMENT OF DIFFUSERS SHALL BE COORDINATED WITH ARCHITECTURAL AND ELECTRICAL DRAWINGS AND TRADES.
- FIELD VERIFY LOCATION OF EQUIPMENT AND DUCTWORK TO ENSURE NO INTERFERENCES WITH FIELD CONDITIONS.
- ALL MECHANICAL WORK SHALL BE COORDINATED WITH GENERAL CONTRACTOR AND ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.
- FABRICATE ALL DUCTWORK IN ACCORDANCE WITH SPECIFICATIONS AND SMACNA STANDARDS.
- DUCT SIZES LISTED ARE CLEAR INSIDE DIMENSION, UNLESS OTHERWISE NOTED.
- ALL RUNOUTS TO DIFFUSERS SHALL BE AIR DEVICE CONNECTION SIZE, UNLESS OTHERWISE NOTED ON DRAWINGS.
- DRAWINGS ARE SCHEMATIC IN NATURE AND MAY NOT SHOW ALL ELEVATION CHANGES AND HORIZONTAL OFFSETS. CONTRACTOR SHALL FIELD ADJUST AS REQUIRED AND SHALL MINIMIZE OFFSETS WHERE POSSIBLE.
- PROVIDE TURNING VANES ON ALL RECTANGULAR NON-RADIUS SUPPLY ELBOWS.
- INSTALL VOLUME CONTROL DAMPERS ON ALL SUPPLY TAKEOFFS TO INDIVIDUAL DIFFUSERS OR REGISTERS. INSTALL DAMPERS IN AN ACCESSIBLE LOCATION. DAMPERS SHALL BE LOCKED IN FULL OPEN POSITION.
- INSTALL NEW FILTERS ON ALL HVAC EQUIPMENT AT COMPLETION OF ALL CONSTRUCTION WORK.
- ALL THERMOSTATS SHALL BE MOUNTED 4'-0" TO TOP ABOVE FINISHED FLOOR. VERIFY EXACT LOCATION WITH OWNER PRIOR TO INSTALLATION.
- E.C. SHALL PROVIDE AND INSTALL CONDUIT AND LINE VOLTAGE WIRING TO ALL EQUIPMENT. M.C. SHALL PROVIDE AND INSTALL LOW VOLTAGE CONTROL WIRING AND CONDUIT.
- ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE PROVIDED SPACE WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTED EQUIPMENT LISTED IN SPECIFICATIONS.
- ALL DUCTWORK AND PIPING SHALL BE SUPPORTED INDEPENDENTLY FROM EQUIPMENT.
- ALL DUCTWORK CONNECTED TO EQUIPMENT WITH MOVING PARTS SHALL BE CONNECTED WITH FLEXIBLE DUCT CONNECTORS.
- OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM SANITARY VENTS, EXHAUST AIR OUTLETS, OR OTHER CONTAMINANT SOURCES.
- DUCTWORK ROUTING SHALL BE COORDINATED WITH OTHER CONTRACTORS TO VERIFY NO CONFLICTS WITH LIGHT FIXTURES, PIPING, AND STRUCTURAL MEMBERS.
- ALL DUCTWORK SHALL BE EXTERNALLY INSULATED PER SPECIFICATIONS. DUCTWORK EXPOSED IN OPEN SPACES SHALL BE SPIRAL SEAM AND SHALL NOT HAVE INSULATION.
- ALL INTERIOR WALL PENETRATIONS SHALL BE A MINIMUM OF 4" LARGER THAN DUCT IN EACH DIRECTION TO ALLOW FOR INSULATION TO PASS THRU OPENING WITHOUT BREAKING VAPOR BARRIER. COORDINATE WITH G.C.
- WALL PENETRATIONS OF EXPOSED DUCTWORK SHALL HAVE ESCUTCHEON RINGS AROUND DUCT TO FILL ANULAR SPACE AROUND DUCT.
- PROVIDE ANY FRAMING NECESSARY FOR INSTALLATION OF MECHANICAL EQUIPMENT OR DEVICES IN HARD CEILINGS.
- REFRIGERANT PIPING SHALL BE INSTALLED PER MANUFACTURER REQUIREMENTS. FOLLOW MANUFACTURER GUIDELINES FOR LONG LINE REFRIGERANT PIPE INSTALLATION, WHERE NECESSARY.
- START-UP OF ALL EQUIPMENT SHALL BE COMPLETED PER MANUFACTURER REQUIREMENTS. MANUFACTURER START-UP SHEETS SHALL BE FILLED OUT IN THEIR ENTIRETY AND INCLUDED IN O & M MANUALS.
- TEST ALL HVAC SYSTEM IN ACCORDANCE WITH MANUFACTURING START-UP PROCEDURES. REPORT SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL. SEE SPECIFICATIONS FOR GUIDELINES.
- EXISTING EQUIPMENT TO BE REMOVED AS INDICATED. ANY REFRIGERANT SHALL BE PUMPED DOWN AND DISPOSED OF LEGALLY.
- ALL DUCTWORK SHALL BE MOUNTED AS HIGH AS POSSIBLE.

GENERAL DEMOLITION NOTES

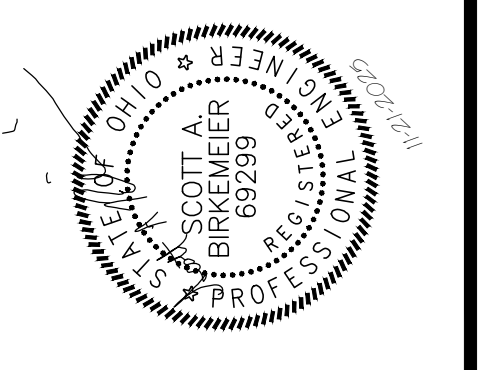
- ALL CONTRACTORS SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND UTILITY LOCATIONS PRIOR TO BIDDING & BEGINNING WORK. IN THE EVENT OF CONFLICTS, CONTRACTOR SHALL SEEK RESOLUTION FROM OWNER AND/OR ARCHITECT PRIOR TO BEGINNING WORK.
- THE OWNER SHALL RETAIN RIGHTS OF OWNERSHIP FOR ALL SALVAGEABLE MATERIALS AND EQUIPMENT REMOVED. SALVAGED ITEMS SHALL BE RELOCATED OR PLACED IN STORAGE AS DIRECTED BY OWNER. NON-SALVAGEABLE MATERIALS OR ITEMS THAT NOT WANT SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF BY THE CONTRACTOR.

MECHANICAL DEMOLITION PLAN NOTES

- EXISTING PACKAGED UNIT AND CONTROLS TO BE REMOVED. EXISTING CURB AND DUCTWORK TO REMAIN. UNIT TO BE REPLACED SEE SHEET M101.
- EXISTING EXHAUST FAN AND CONTROLS TO BE REMOVED. EXISTING CURB AND DUCTWORK TO REMAIN. FAN TO BE REPLACED SEE SHEET M101.
- EXISTING LOUVER AND CONTROL DAMPER TO REMAIN. CONTROL SEQUENCE TO BE CHANGED TO MATCH NEW CONTROL SEQUENCE ON SHEET M903.
- EXISTING EXHAUST FAN AND CONTROLS TO BE REMOVED. EXISTING DUCTWORK AND ROOF VENT TO REMAIN. FAN TO BE REPLACED SEE SHEET M101.
- EXISTING UNIT HEATER AND CONTROLS TO REMAIN.
- EXISTING SUPPLY AIR GRILLE TO REMAIN.
- EXISTING SUPPLY DIFFUSER TO BE REMOVED. RUNOUT TO BE REWORKED FOR NEW DIFFUSER. SEE SHEET M101.
- EXISTING RETURN GRILLE TO BE REMOVED.
- EXISTING THERMOSTAT TO BE REMOVED.
- EXISTING GRILLE AND BRANCH DUCT TO BE REMOVED.
- EXISTING FIRE DAMPERS IN DUCTWORK PENETRATIONS IN THIS WALL TO REMAIN. CONTRACTOR TO INSPECT FIRE DAMPERS.
- EXISTING SUPPLY DUCT TO BE REMOVED AS INDICATED.
- EXISTING EXHAUST GRILLES TO BE REMOVED. EXHAUST DUCT TO REMAIN.
- EXISTING RETURN GRILLE IN BOTTOM OF DUCT TO REMAIN.



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



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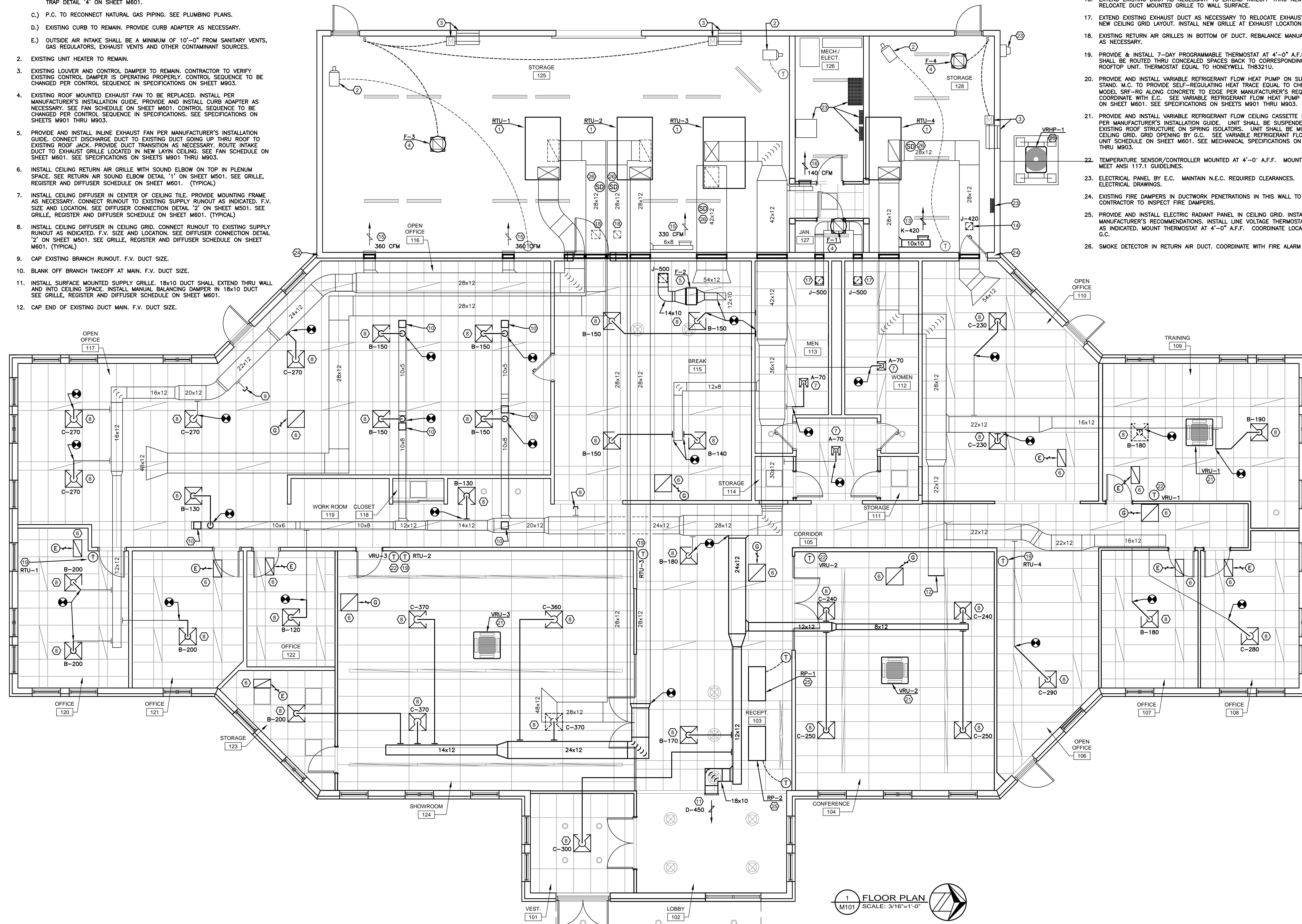
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MECHANICAL DEMOLITION PLAN

ISSUED DATE	11-21-23 BIDDING & PERMITS
	01-09-24 PERMITS
DRAWN BY:	SAB
DATE:	08-23
PLOT SCALE:	1:1
JOB NO.	45-2902-23
SHEET	MD101

KEY NOTES

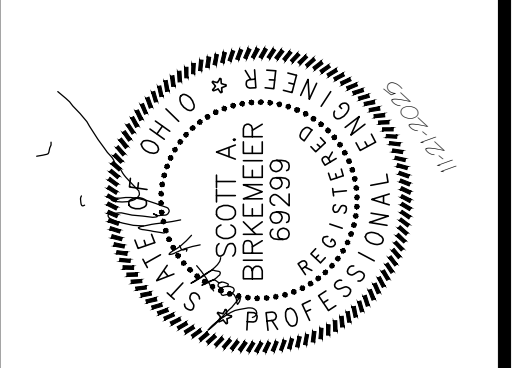
1. EXISTING PACKAGED ROOF TOP UNIT TO BE REPLACED. INSTALL PER MANUFACTURER'S INSTALLATION GUIDE. SEE PACKAGED AIR CONDITIONING UNIT SCHEDULE ON SHEET M601. SEE SPECIFICATIONS ON SHEETS M901 THRU M903.
 - A.) UNIT SHALL COME EQUIPPED WITH FILTER MEDIA PER SCHEDULE AND SPECIFICATIONS.
 - B.) ROUTE CONDENSATE DRAIN TO SPLASH BLOCK ON ROOF. SEE CONDENSATE TRAP DETAIL "4" ON SHEET M601.
 - C.) P.C. TO RECONNECT NATURAL GAS PIPING. SEE PLUMBING PLANS.
 - D.) EXISTING CURB TO REMAIN. PROVIDE CURB ADAPTER AS NECESSARY.
 - E.) OUTSIDE AIR INTAKE SHALL BE A MINIMUM OF 10'-0" FROM SANITARY VENTS, GAS REGULATORS, EXHAUST VENTS AND OTHER CONTAMINANT SOURCES.
2. EXISTING UNIT HEATER TO REMAIN.
3. EXISTING LOUVER AND CONTROL DAMPER TO REMAIN. CONTRACTOR TO VERIFY EXISTING CONTROL DAMPER IS OPERATING PROPERLY. CONTROL SEQUENCE TO BE CHANGED PER CONTROL SEQUENCE IN SPECIFICATIONS ON SHEET M903.
4. EXISTING ROOF MOUNTED EXHAUST FAN TO BE REPLACED. INSTALL PER MANUFACTURER'S INSTALLATION GUIDE. PROVIDE AND INSTALL CURB ADAPTER AS NECESSARY. SEE FAN SCHEDULE ON SHEET M601. CONTROL SEQUENCE TO BE CHANGED PER CONTROL SEQUENCE IN SPECIFICATIONS. SEE SPECIFICATIONS ON SHEETS M901 THRU M903.
5. PROVIDE AND INSTALL INLINE EXHAUST FAN PER MANUFACTURER'S INSTALLATION GUIDE. CONNECT DISCHARGE DUCT TO EXISTING DUCT GOING UP THRU ROOF TO EXISTING ROOF JACK. PROVIDE DUCT TRANSITION AS NECESSARY. ROUTE INTAKE DUCT TO EXHAUST GRILLE LOCATED IN NEW LAYIN CEILING. SEE FAN SCHEDULE ON SHEET M601. SEE SPECIFICATIONS ON SHEETS M901 THRU M903.
6. INSTALL CEILING RETURN AIR GRILLE WITH SOUND ELBOW ON TOP IN PLENUM SPACE. SEE RETURN AIR SOUND ELBOW DETAIL "1" ON SHEET M501. SEE GRILLE, REGISTER AND DIFFUSER SCHEDULE ON SHEET M601. (TYPICAL)
7. INSTALL CEILING DIFFUSER IN CENTER OF CEILING TILE. PROVIDE MOUNTING FRAME AS NECESSARY. CONNECT RUNOUT TO EXISTING SUPPLY RUNOUT AS INDICATED. F.V. SIZE AND LOCATION. SEE DIFFUSER CONNECTION DETAIL "2" ON SHEET M501. SEE GRILLE, REGISTER AND DIFFUSER SCHEDULE ON SHEET M601. (TYPICAL)
8. INSTALL CEILING DIFFUSER IN CEILING GRID. CONNECT RUNOUT TO EXISTING SUPPLY RUNOUT AS INDICATED. F.V. SIZE AND LOCATION. SEE DIFFUSER SCHEDULE ON SHEET M601. (TYPICAL)
9. CAP EXISTING BRANCH RUNOUT. F.V. DUCT SIZE.
10. BLANK OFF BRANCH TAKEOFF AT MAIN. F.V. DUCT SIZE.
11. INSTALL SURFACE MOUNTED SUPPLY GRILLE. 18x10 DUCT SHALL EXTEND THRU WALL AND INTO CEILING SPACE. INSTALL MANUAL BALANCING DAMPER IN 18x10 DUCT SEE GRILLE, REGISTER AND DIFFUSER SCHEDULE ON SHEET M601.
12. CAP END OF EXISTING DUCT MAIN. F.V. DUCT SIZE.



KEY NOTES (CONTINUED)

13. INSTALL 10x10 SUPPLY BRANCH EXPOSED IN STORAGE ROOM. INSTALL MANUAL BALANCING DAMPER IN 10x10 AND UPSTREAM OF SIDEWALL THROW DIFFUSER.
14. 12x12 RETURN GRILLE IN BOTTOM SIDE OF RETURN DUCT. INSTALL MANUAL BALANCING DAMPER IN TAKEOFF FITTING.
15. EXISTING SUPPLY GRILLE TO BE BALANCED TO AIRFLOW INDICATED.
16. EXTEND EXISTING DUCT AS NECESSARY TO EXTEND TAKEOFF THRU NEW WALL. RELOCATE DUCT MOUNTED GRILLE TO WALL SURFACE.
17. EXTEND EXISTING EXHAUST DUCT AS NECESSARY TO RELOCATE EXHAUST GRILLE INTO NEW CEILING GRID LAYOUT. INSTALL NEW GRILLE AT EXHAUST LOCATION.
18. EXISTING RETURN AIR GRILLES IN BOTTOM OF DUCT. REBALANCE MANUAL DAMPERS AS NECESSARY.
19. PROVIDE & INSTALL 7-DAY PROGRAMMABLE THERMOSTAT AT 4'-0" A.F.F. WIRING SHALL BE ROUTED THRU CONCEALED SPACES BACK TO CORRESPONDING PACKAGED ROOFTOP UNIT. THERMOSTAT EQUAL TO HONEYWELL TH8321U.
20. PROVIDE AND INSTALL VARIABLE REFRIGERANT FLOW HEAT PUMP ON SUPPORT STAND. M.C. TO PROVIDE SELF-REGULATING HEAT TRACE EQUAL TO CHROMOLOX MODEL SRF-RG ALONG CONCRETE TO EDGE PER MANUFACTURER'S REQUIREMENTS. COORDINATE WITH E.C. SEE VARIABLE REFRIGERANT FLOW HEAT PUMP SCHEDULE ON SHEET M601. SEE SPECIFICATIONS ON SHEETS M901 THRU M903.
21. PROVIDE AND INSTALL VARIABLE REFRIGERANT FLOW CEILING CASSETTE INDOOR UNIT PER MANUFACTURER'S INSTALLATION GUIDE. UNIT SHALL BE SUSPENDED FROM EXISTING ROOF STRUCTURE ON SPRING ISOLATORS. UNIT SHALL BE MOUNTED IN CEILING GRID. GRID OPENING BY G.C. SEE VARIABLE REFRIGERANT FLOW INDOOR UNIT SCHEDULE ON SHEET M601. SEE MECHANICAL SPECIFICATIONS ON SHEET M901 THRU M903.
22. TEMPERATURE SENSOR/CONTROLLER MOUNTED AT 4'-0" A.F.F. MOUNTING SHALL MEET ANSI 117.1 GUIDELINES.
23. ELECTRICAL PANEL BY E.C. MAINTAIN N.E.C. REQUIRED CLEARANCES. SEE ELECTRICAL DRAWINGS.
24. EXISTING FIRE DAMPERS IN DUCTWORK PENETRATIONS IN THIS WALL TO REMAIN. CONTRACTOR TO INSPECT FIRE DAMPERS.
25. PROVIDE AND INSTALL ELECTRIC RADIANT PANEL IN CEILING GRID. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. INSTALL LINE VOLTAGE THERMOSTAT ON WALL AS INDICATED. MOUNT THERMOSTAT AT 4'-0" A.F.F. COORDINATE LOCATION WITH G.C.
26. SMOKE DETECTOR IN RETURN AIR DUCT. COORDINATE WITH FIRE ALARM INSTALLER.

1 FLOOR PLAN
M101 SCALE: 3/16"=1'-0"



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MECHANICAL FLOOR PLAN

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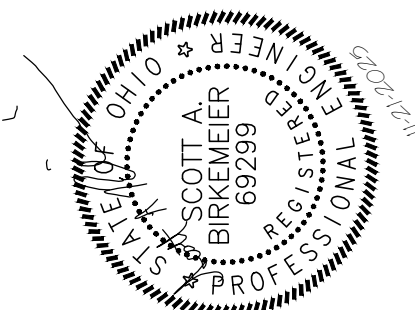
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JOB NO. 45-2902-23

SHEET
M101



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MECHANICAL PIPING PLAN AND DETAILS

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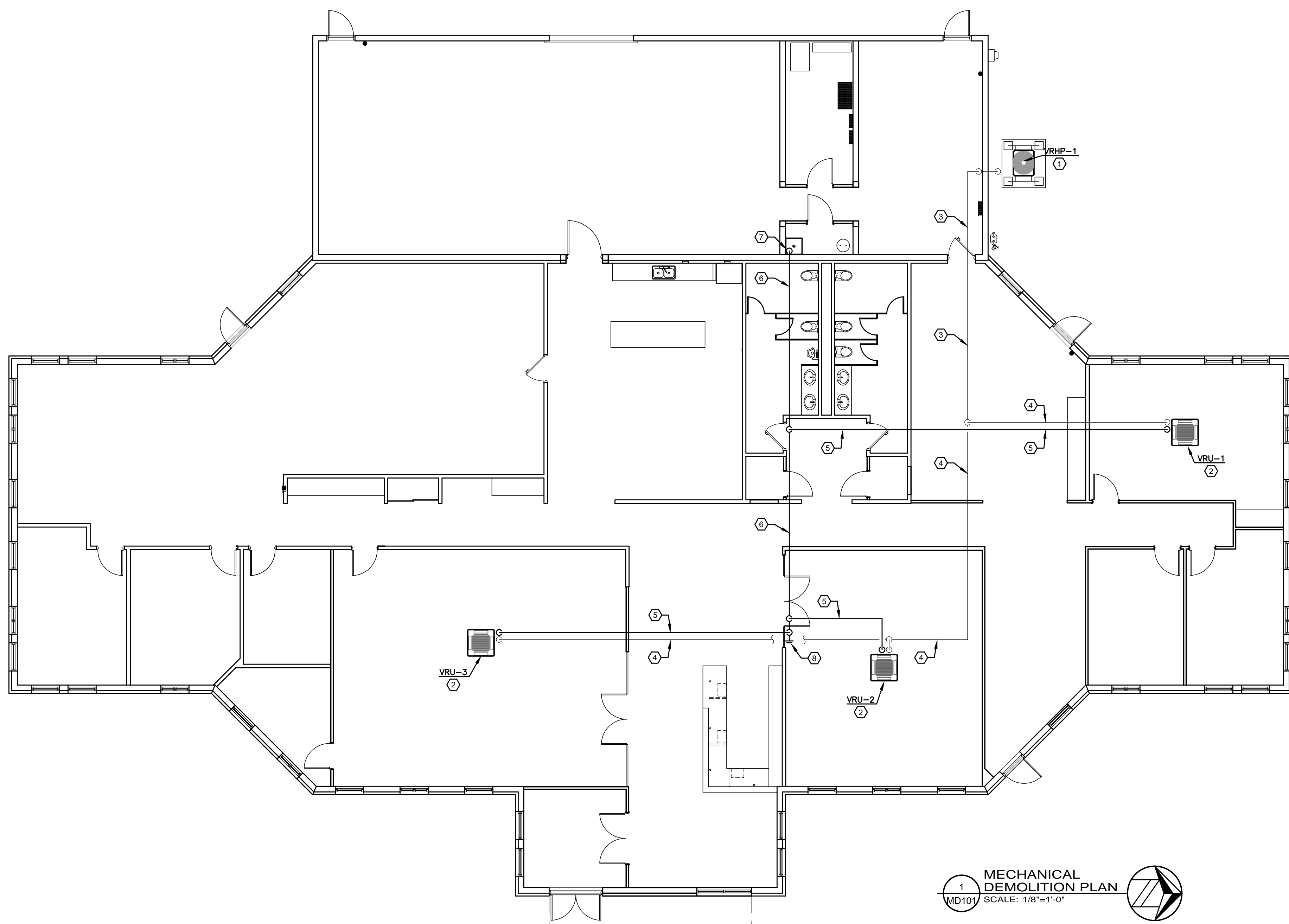
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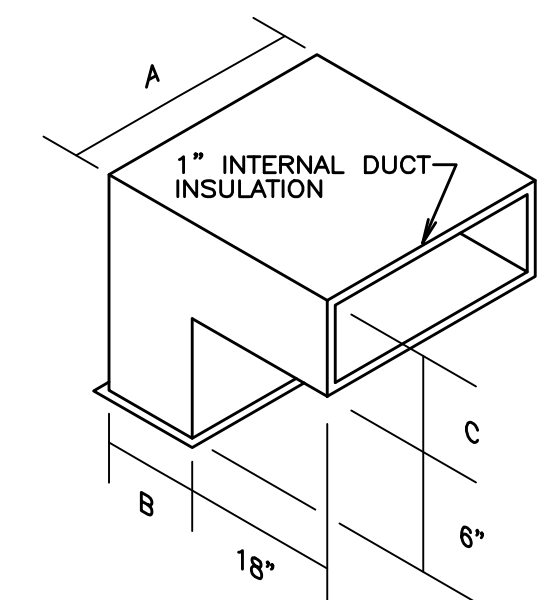
PLOT SCALE: 1:1

JOB NO. 45-2902-23

SHEET
 M501

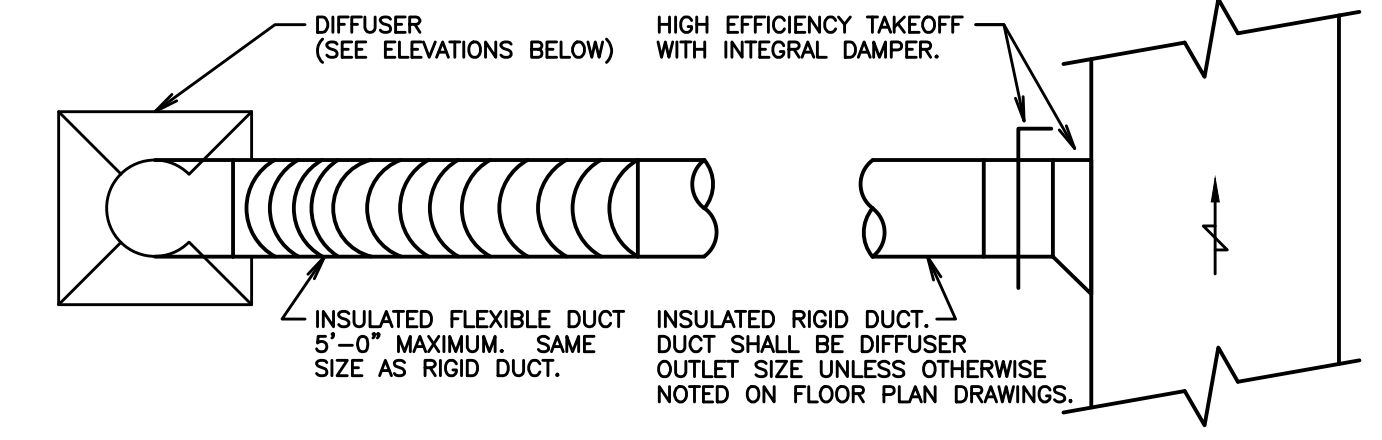


1 MECHANICAL DEMOLITION PLAN
 M501 SCALE: 1/8"=1'-0"

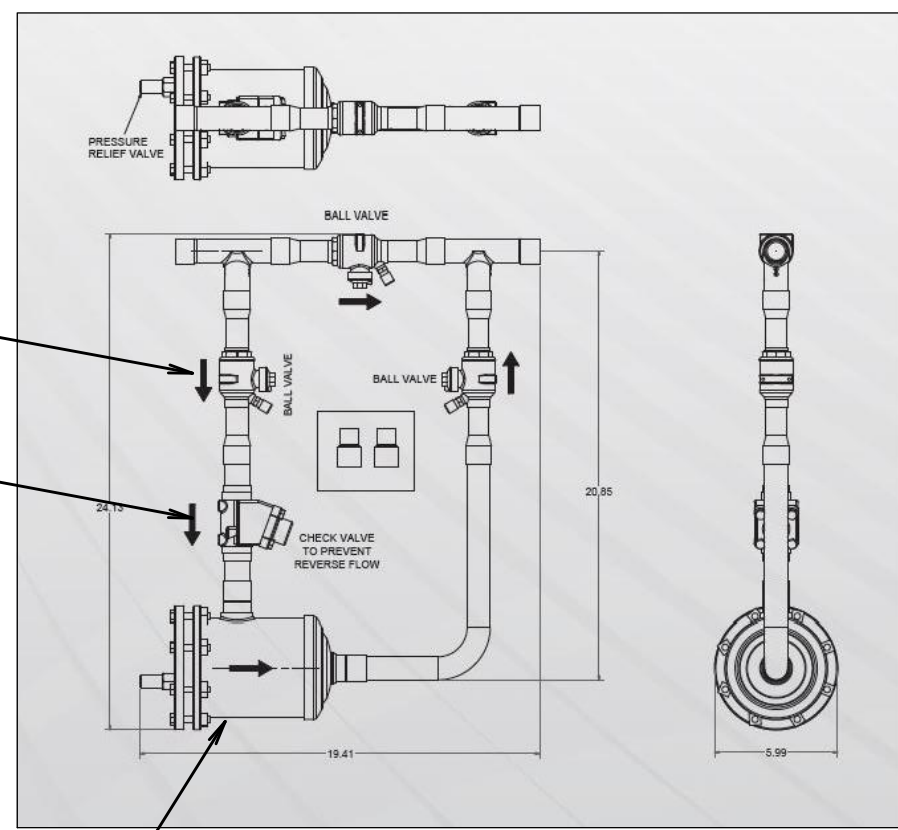
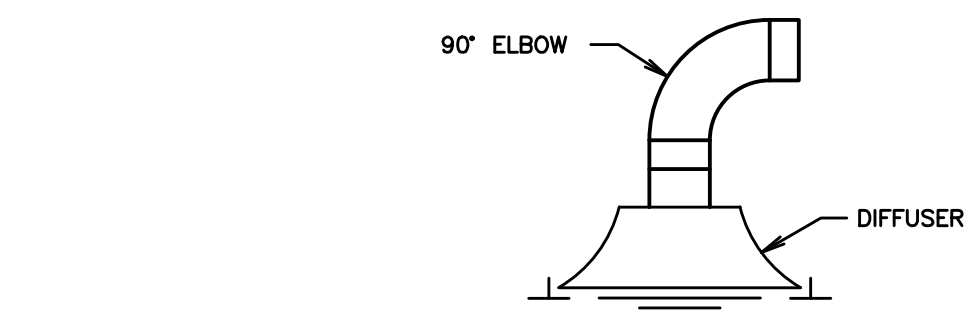


NOTE:
 A = GRILLE WIDTH
 B = GRILLE DEPTH
 C = GRILLE DEPTH PLUS 2" OR MAXIMUM OF 12"

1 RETURN AIR SOUND ELBOW DETAIL
 M501 SCALE: NONE



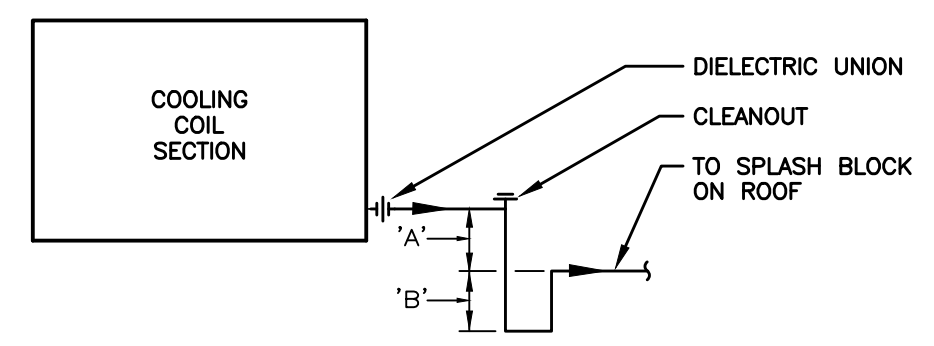
2 DIFFUSER CONNECTION DETAIL
 M501 SCALE: NONE



3 SUCTION FILTER DETAIL
 M501 SCALE: NONE

CONDENSATE TRAP SCHEDULE

TAG	LOCATION	TONS	STATIC PRESSURE	DRAIN SIZE	'A'	'B'
RTU-1	ROOF	6	1 1/2"	1 1/4"	2 1/2"	1 1/4"
RTU-2	ROOF	5	1 1/2"	1"	2 1/2"	1 1/4"
RTU-3	ROOF	10	1 1/2"	1 1/4"	2 1/2"	1 1/4"
RTU-4	ROOF	5	1 1/2"	1"	2 1/2"	1 1/4"



4 CONDENSATE TRAP DETAIL
 M501 SCALE: NONE

CONTROLS GENERAL NOTES:

- SYSTEMS SHALL BE EQUIPPED WITH CENTRAL CONTROLLER EQUAL TO MITSUBISHI MODEL AE-200A.
- INDOOR UNIT CONTROLLERS/THERMOSTATS SHALL BE EQUAL TO MITSUBISHI MODEL PAC-YT53CRAU.
- SYSTEMS SHALL BE EQUIPPED WITH CHANGEOVER CONTROLLER EQUAL TO MITSUBISHI MODEL AHC.

REFRIGERANT PIPING GENERAL NOTES:

- TEES SHALL NOT BE INSTALLED IN A BULLHEAD CONFIGURATION.
- TEES SHALL BE INSTALLED SO THE SIDE OF THE TEE IS IN THE HORIZONTAL POSITION AND SHALL NOT BE VERTICAL IN ORIENTATION.
- MAXIMUM DISTANCE FROM FIRST BRANCH TEE TO FURTHEST UNIT SHALL NOT EXCEED 160'-0".
- WHERE PIPING IS EXPOSED, IT SHALL BE INSTALLED IN A NEAT AND ORDERLY FASHION.

KEY NOTES

- VARIABLE REFRIGERANT FLOW HEAT PUMP. SEE KEYNOTE ON SHEET M101. ROUTE REFRIGERANT PIPING (7/8" SUCTION, 3/8" LIQUID) INTO BUILDING LOW AND UP INTERIOR SIDE OF WALL. WALL PENETRATION SHALL BE WATERTIGHT. ROUTE THRU BUILDING AS INDICATED TO INDOOR UNITS. PROVIDE UNIT WITH A SUCTION LINE FILTER/CLEANING SYSTEM EQUAL TO MITSUBISHI MODEL PAC-SPRFCS. SEE SUCTION FILTER DETAIL '3' ON SHEET M501. SEE VARIABLE REFRIGERANT FLOW HEAT PUMP SCHEDULE ON SHEET M601. SEE SPECIFICATIONS ON SHEETS M901 THRU M903.
- VARIABLE REFRIGERANT FLOW INDOOR UNIT. SEE FLOOR PLAN ON SHEET M101 FOR ADDITIONAL NOTES. ROUTE COND PIPING AS INDICATED. REFRIGERANT PIPING (5/8" SUCTION, 3/8" LIQUID) SHALL BE CONNECTED PER MANUFACTURER REQUIREMENTS.
- 7/8" SUCTION, 3/8" LIQUID REFRIGERANT PIPING ROUTED AS HIGH AS POSSIBLE. PIPING INDICATED AS SINGLE LINE FOR CLARITY.
- 5/8" SUCTION, 3/8" LIQUID REFRIGERANT PIPING ROUTED AS HIGH AS POSSIBLE. PIPING INDICATED AS SINGLE LINE FOR CLARITY.
- 3/4" COND FROM INDOOR UNIT CONDENSATE PUMP TO MAIN. PUMPED CONDENSATE SHALL DISCHARGE INTO WYE FITTING IN TOP OF MAIN.
- 1 1/4" COND GRAVITY MAIN SHALL BE ROUTED AS HIGH AS POSSIBLE.
- 1 1/4" COND MAIN SHALL DISCHARGE INTO EXISTING MOP SINK. TERMINATE WITH 2" AIR GAP.
- INSTALL CLEANOUT PLUG AT END OF COND MAIN.

34. DUCTWORK:

GENERAL

- A. SHEET METAL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST ASHRAE AND SMACNA RECOMMENDATIONS AND IN THE BEST PRACTICES OF GOOD WORKMANSHIP...

LOW PRESSURE DUCTWORK

- A. DUCTWORK SHEET METAL GAUGES AND JOINT CONSTRUCTION SHALL BE AS ALLOWED BY THE LATEST SMACNA HVAC DUCT CONSTRUCTION STANDARDS FOR 2" W.C. RECTANGULAR METAL DUCTS...

35. DUCT ACCESSORIES:

- A. LOW PRESSURE TAKEOFFS SHALL BE EQUAL TO "E-Z TAP COLLARS WITH 2" STANDOFF" AS MANUFACTURED BY SHEET METAL CONTRACTORS, INC. TAKEOFFS SHALL BE FABRICATED OF 20 GAUGE GALVANIZED STEEL...

1) MANUAL BALANCING DAMPER:

MANUAL BALANCING DAMPER IN LOW PRESSURE SQUARE OR RECTANGULAR DUCTWORK LESS THAN ONE SQUARE FOOT IN AREA OR LESS THAN 12" HIGH SHALL BE TITUS MODEL AG-358, BOTTOM-OPERATED OPPOSED-BLADE VOLUME DAMPER OR EQUAL AS MANUFACTURED BY THE AIR DEVICE MANUFACTURERS...

2) MOTORIZED AIR DAMPER:

DAMPER OPERATORS SHALL PROVIDE SMOOTH PROPORTIONAL CONTROL WITH SUFFICIENT POWER FOR AIR VELOCITIES 20 PERCENT GREATER THAN MAXIMUM DESIGN VELOCITY AND TO PROVIDE TIGHT SEAL AGAINST MAXIMUM SYSTEM PRESSURES...

3) DUCT ACCESS DOORS SHALL BE PROVIDED AND INSTALLED FOR INSPECTION AND CLEANING BEFORE AND AFTER FILTERS, COILS, FANS, AUTOMATIC DAMPERS, AS INDICATED.

ACCESS DOORS SHALL BE RIGID AND CLOSE-FITTING CONSTRUCTED OF GALVANIZED STEEL WITH SEALING GASKETS. ACCESS DOOR TO BE DOUBLE WALLED WITH 1" - 1 1/2 LB. INSULATION AND CAM LATCHES, AND SHALL BE THE LARGEST STANDARD MANUFACTURE UNIT THAT WILL FIT IN THE DUCT WHERE IN USE...

36. MECHANICAL INSULATION:

GENERAL

- A. ALL INSULATION, UNLESS OTHERWISE NOTED, SHALL HAVE A COMPOSITE RATING INCLUDING INSULATION ADHESIVES, JACKET, ETC. AS FOLLOWS. THE COMPOSITE ASSEMBLY SHALL HAVE A FLAME SPREAD RATING NOT OVER 25 AND A SMOKE DEVELOPED RATING NOT HIGHER THAN 50...

PIPE INSULATION

- A. FURNISH AND INSTALL AT ALL HANGERS AND SUPPORTS OF INSULATED PIPE, 12" LONG SECTIONS OF HIGH DENSITY INSULATION THAT WILL NOT DEFLECT MORE THAN 1/8" IN AN OPERATING CONDITION AND COMING AT LEAST 1/20" OF THE ARC AT THE BOTTOM OF THE PIPE...

DUCT INSULATION

- A. INSULATION SHALL BE APPLIED PER MANUFACTURER RECOMMENDATIONS, AND SHALL BE INSTALLED IN A MANNER TO PROVIDE A VAPOR SEAL AT SEAMS AND JOINTS.

AIR DEVICES:

- A. AIR DEVICES SHALL BE AS CALLED FOR IN SCHEDULE ON M602. QUANTITY SHALL BE DETERMINED FROM DRAWINGS.

FANS:

- A. FANS SHALL BE AS CALLED FOR IN SCHEDULE ON SHEET M602.

39. PACKAGED AIR CONDITIONING HEATING AND COOLING:

- A. SELF-CONTAINED FACTORY-ENGINEERED AND ASSEMBLED, PRE-WIRED PACKAGED ROOFTOP UNITS; UL LISTED.

- 5. EVAPORATOR AND CONDENSER COILS: COPPER TUBE ALUMINUM FIN ASSEMBLY, COILS SHALL BE LEAK AND PRESSURE TESTED AT FACTORY.

40. VARIABLE REFRIGERANT FLOW EQUIPMENT:

- A. THE VARIABLE CAPACITY, HEAT PUMP/AIR CONDITIONING SYSTEM SHALL BE A VARIABLE REFRIGERANT FLOW SPLIT SYSTEM WITH HEAT RECOVERY. THE SYSTEM SHALL CONSIST OF BC CONTROLLERS, MULTIPLE EVAPORATORS, ENGINEERED REFRIGERANT PIPING JOINTS AND HEADERS, A TWO OR THREE PIPE REFRIGERATION DISTRIBUTION SYSTEM USING PID CONTROL, AND VARIABLE REFRIGERANT FLOW OUTDOOR UNIT.

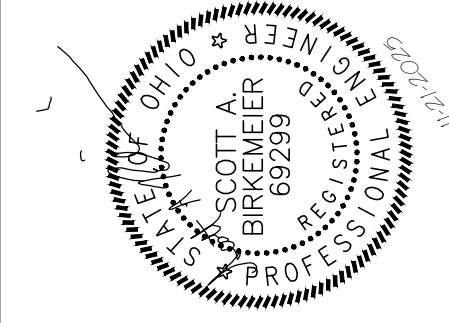
- 1. OUTDOOR UNIT SHALL BE FACTORY ASSEMBLED AND PRE-WIRED WITH ALL NECESSARY ELECTRONIC AND REFRIGERANT CONTROLS.

- 14. UNIT TO BE PROVIDED WITH BASE PAN HEATER.

CONTROLS

- 1. THE UNIT SHALL HAVE CONTROLS PROVIDED TO PERFORM INPUT FUNCTIONS NECESSARY TO OPERATE THE FULLY FUNCTIONING SYSTEM.

(SEE CONTINUATION ON SHEET M903.)



Technicon Design Group

Perry Protech

1270 FLAGSHIP DRIVE

PERRYSBURG, OH 43551

MECHANICAL SPECIFICATIONS

ISSUED DATE

11-21-23 BIDDING & PERMITS

01-09-24 PERMITS

DRAWN BY: SAB

DATE: 08-23

PLOT SCALE: 1:1

JOB NO. 45-2902-23

SHEET M902

GENERAL DEMOLITION NOTES

- ALL CONTRACTORS SHALL FIELD VERIFY EXISTING CONDITIONS AND UTILITY LOCATIONS PRIOR TO BIDDING & BEGINNING WORK. IN THE EVENT OF CONFLICTS, CONTRACTOR SHALL SEEK RESOLUTION FROM OWNER AND/OR ARCHITECT PRIOR TO BEGINNING WORK.
- THE OWNER SHALL RETAIN RIGHTS OF OWNERSHIP FOR ALL SALVAGEABLE MATERIALS AND EQUIPMENT REMOVED. SALVAGED ITEMS SHALL BE RELOCATED OR PLACED IN STORAGE AS DIRECTED BY OWNER. NON-SALVAGEABLE MATERIALS SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF BY THE CONTRACTOR.
- ALL RECEPTACLES, SWITCHES, LIGHTS, JUNCTION BOXES, ETC. MAY NOT BE SHOWN ON DRAWINGS. THE DRAWINGS HAVE BEEN PREPARED TO ASSIST THE CONTRACTOR IN ESTIMATING THE COST OF THE PROJECT. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS BEFORE BIDDING.
- FOR DEVICES BEING REMOVED, E.C. SHALL COORDINATE WITH ALL TRADES FOR THE REMOVAL OF ELECTRIC.

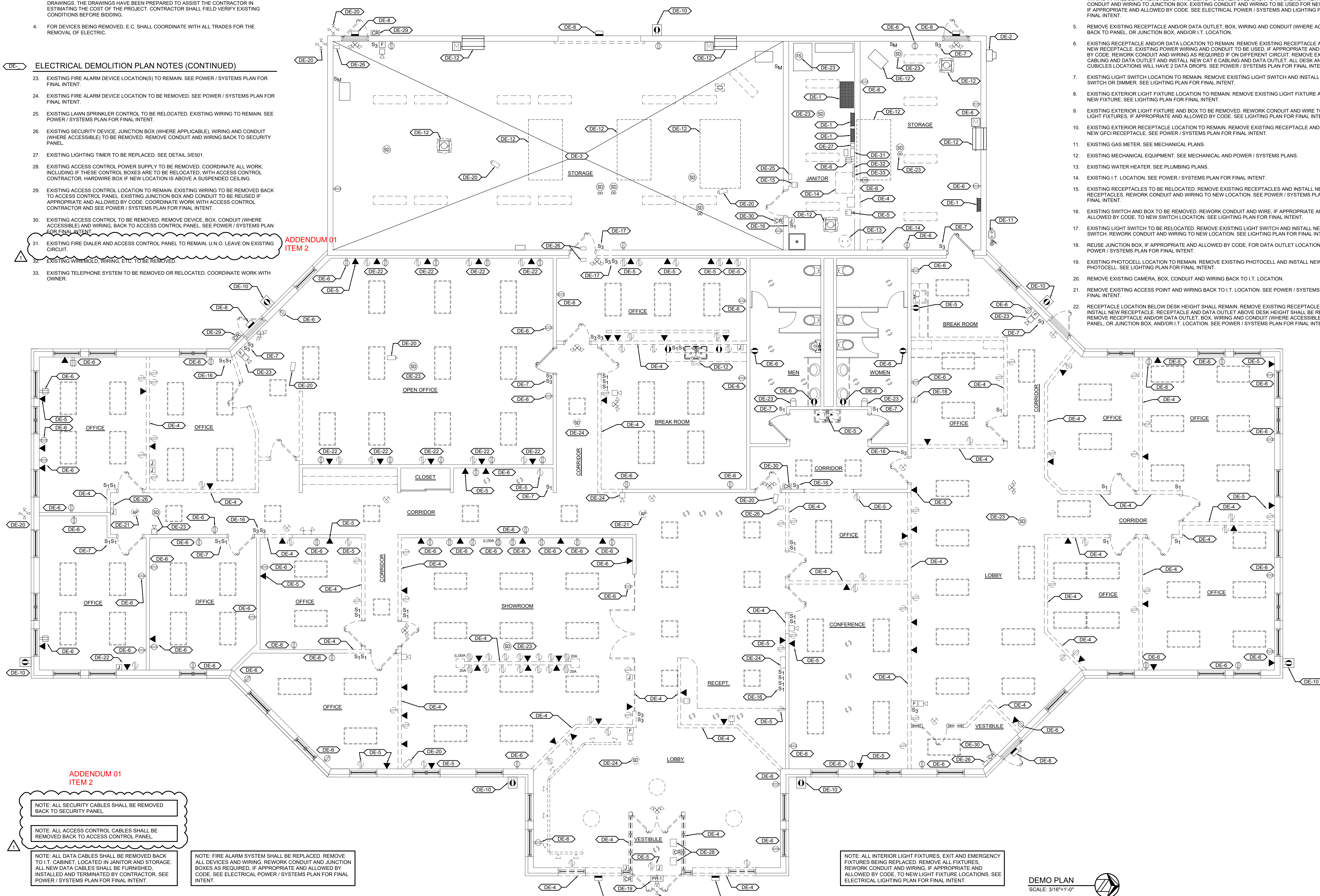
ELECTRICAL DEMOLITION PLAN NOTES (CONTINUED)

- EXISTING FIRE ALARM DEVICE LOCATION(S) TO REMAIN. SEE POWER / SYSTEMS PLAN FOR FINAL INTENT.
- EXISTING FIRE ALARM DEVICE LOCATION TO BE REMOVED. SEE POWER / SYSTEMS PLAN FOR FINAL INTENT.
- EXISTING LAWN SPRINKLER CONTROL TO BE RELOCATED. EXISTING WIRING TO REMAIN. SEE POWER / SYSTEMS PLAN FOR FINAL INTENT.
- EXISTING SECURITY DEVICE, JUNCTION BOX (WHERE APPLICABLE), WIRING AND CONDUIT (WHERE ACCESSIBLE) TO BE REMOVED. REMOVE CONDUIT AND WIRING BACK TO SECURITY PANEL.
- EXISTING LIGHTING TIMER TO BE REPLACED. SEE DETAIL 3/E501.
- EXISTING ACCESS CONTROL POWER SUPPLY TO BE REMOVED. COORDINATE ALL WORK, INCLUDING IF THESE CONTROL BOXES ARE TO BE RELOCATED, WITH ACCESS CONTROL CONTRACTOR. HARDWIRE BOX IF NEW LOCATION IS ABOVE A SUSPENDED CEILING.
- EXISTING ACCESS CONTROL LOCATION TO REMAIN. EXISTING WIRING TO BE REMOVED BACK TO ACCESS CONTROL PANEL. EXISTING JUNCTION BOX AND CONDUIT TO BE REUSED IF APPROPRIATE AND ALLOWED BY CODE. COORDINATE WORK WITH ACCESS CONTROL CONTRACTOR AND SEE POWER / SYSTEMS PLAN FOR FINAL INTENT.
- EXISTING ACCESS CONTROL TO BE REMOVED. REMOVE DEVICE, BOX, CONDUIT (WHERE ACCESSIBLE) AND WIRING, BACK TO ACCESS CONTROL PANEL. SEE POWER / SYSTEMS PLAN FOR FINAL INTENT.
- EXISTING FIRE DIALER AND ACCESS CONTROL PANEL TO REMAIN, U.N.O. LEAVE ON EXISTING CIRCUIT.
- EXISTING WIREMOLD, WIRING, ETC. TO BE REMOVED.
- EXISTING TELEPHONE SYSTEM TO BE REMOVED OR RELOCATED. COORDINATE WORK WITH OWNER.

ADDENDUM 01
ITEM 2

ELECTRICAL DEMOLITION PLAN NOTES

- EXISTING PANELBOARD TO REMAIN.
- EXISTING UTILITY METER TO REMAIN.
- EXISTING RECEPTACLE, DATA, FIRE ALARM, SWITCHES, MECHANICAL EQUIPMENT, LIGHT FIXTURE, ETC. LOCATIONS TO REMAIN, U.N.O. REMOVE EXISTING RECEPTACLES, LIGHT FIXTURES AND SWITCHES AND INSTALL NEW RECEPTACLES, LIGHT FIXTURES AND SWITCHES. SEE ELECTRICAL POWER / SYSTEMS AND LIGHTING PLANS FOR FINAL INTENT.
- REMOVE ALL DATA OUTLETS, RECEPTACLES, SWITCHES, FIRE ALARM DEVICES, BOXES, CONDUIT AND WIRING IN WALL BEING REMOVED. DATA CABLING TO BE REMOVED BACK TO I.T. CABINET. REWORK CONDUIT AND WIRING TO JUNCTION BOX. EXISTING CONDUIT AND WIRING TO BE USED FOR NEW CIRCUITS IF APPROPRIATE AND ALLOWED BY CODE. SEE ELECTRICAL POWER / SYSTEMS AND LIGHTING PLANS FOR FINAL INTENT.
- REMOVE EXISTING RECEPTACLE AND/OR DATA OUTLET, BOX, WIRING AND CONDUIT (WHERE ACCESSIBLE) BACK TO PANEL, OR JUNCTION BOX, AND/OR I.T. LOCATION.
- EXISTING RECEPTACLE AND/OR DATA LOCATION TO REMAIN. REMOVE EXISTING RECEPTACLE AND INSTALL NEW RECEPTACLE. EXISTING POWER WIRING AND CONDUIT TO BE USED, IF APPROPRIATE AND ALLOWED BY CODE. REWORK CONDUIT AND WIRING AS REQUIRED IF ON DIFFERENT CIRCUIT. REMOVE EXISTING CABLING AND DATA OUTLET AND INSTALL NEW CAT 6 CABLING AND DATA OUTLET. ALL DESK AND CUBICLES LOCATIONS WILL HAVE 2 DATA DROPS. SEE POWER / SYSTEMS PLAN FOR FINAL INTENT.
- EXISTING LIGHT SWITCH LOCATION TO REMAIN. REMOVE EXISTING LIGHT SWITCH AND INSTALL NEW LIGHT SWITCH OR DIMMER. SEE LIGHTING PLAN FOR FINAL INTENT.
- EXISTING EXTERIOR LIGHT FIXTURE LOCATION TO REMAIN. REMOVE EXISTING LIGHT FIXTURE AND INSTALL NEW FIXTURE. SEE LIGHTING PLAN FOR FINAL INTENT.
- EXISTING EXTERIOR LIGHT FIXTURE AND BOX TO BE REMOVED. REWORK CONDUIT AND WIRE TO NEW LIGHT FIXTURES, IF APPROPRIATE AND ALLOWED BY CODE. SEE LIGHTING PLAN FOR FINAL INTENT.
- EXISTING EXTERIOR RECEPTACLE LOCATION TO REMAIN. REMOVE EXISTING RECEPTACLE AND INSTALL NEW GFCI RECEPTACLE. SEE POWER / SYSTEMS PLAN FOR FINAL INTENT.
- EXISTING GAS METER. SEE MECHANICAL PLANS.
- EXISTING MECHANICAL EQUIPMENT. SEE MECHANICAL AND POWER / SYSTEMS PLANS.
- EXISTING WATER HEATER. SEE PLUMBING PLANS.
- EXISTING I.T. LOCATION. SEE POWER / SYSTEMS PLAN FOR FINAL INTENT.
- EXISTING RECEPTACLES TO BE RELOCATED. REMOVE EXISTING RECEPTACLES AND INSTALL NEW RECEPTACLES. REWORK CONDUIT AND WIRING TO NEW LOCATION. SEE POWER / SYSTEMS PLAN FOR FINAL INTENT.
- EXISTING SWITCH AND BOX TO BE REMOVED. REWORK CONDUIT AND WIRE, IF APPROPRIATE AND ALLOWED BY CODE, TO NEW SWITCH LOCATION. SEE LIGHTING PLAN FOR FINAL INTENT.
- EXISTING LIGHT SWITCH TO BE RELOCATED. REMOVE EXISTING LIGHT SWITCH AND INSTALL NEW LIGHT SWITCH. REWORK CONDUIT AND WIRING TO NEW LOCATION. SEE LIGHTING PLAN FOR FINAL INTENT.
- REUSE JUNCTION BOX, IF APPROPRIATE AND ALLOWED BY CODE, FOR DATA OUTLET LOCATION. SEE POWER / SYSTEMS PLAN FOR FINAL INTENT.
- EXISTING PHOTOCELL LOCATION TO REMAIN. REMOVE EXISTING PHOTOCELL AND INSTALL NEW PHOTOCELL. SEE LIGHTING PLAN FOR FINAL INTENT.
- REMOVE EXISTING CAMERA, BOX, CONDUIT AND WIRING BACK TO I.T. LOCATION.
- REMOVE EXISTING ACCESS POINT AND WIRING BACK TO I.T. LOCATION. SEE POWER / SYSTEMS PLAN FOR FINAL INTENT.
- RECEPTACLE LOCATION BELOW DESK HEIGHT SHALL REMAIN. REMOVE EXISTING RECEPTACLE AND INSTALL NEW RECEPTACLE. RECEPTACLE AND DATA OUTLET ABOVE DESK HEIGHT SHALL BE REMOVED. REMOVE RECEPTACLE AND/OR DATA OUTLET, BOX, WIRING AND CONDUIT (WHERE ACCESSIBLE) BACK TO PANEL, OR JUNCTION BOX, AND/OR I.T. LOCATION. SEE POWER / SYSTEMS PLAN FOR FINAL INTENT.



ADDENDUM 01
ITEM 2

NOTE: ALL SECURITY CABLES SHALL BE REMOVED BACK TO SECURITY PANEL.

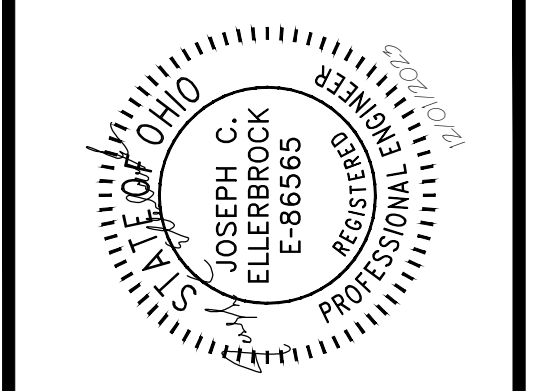
NOTE: ALL ACCESS CONTROL CABLES SHALL BE REMOVED BACK TO ACCESS CONTROL PANEL.

NOTE: ALL DATA CABLES SHALL BE REMOVED BACK TO I.T. CABINET. LOCATED IN JANITOR AND STORAGE. ALL NEW DATA CABLES SHALL BE FURNISHED, INSTALLED AND TERMINATED BY CONTRACTOR. SEE ELECTRICAL POWER / SYSTEMS PLAN FOR FINAL INTENT.

NOTE: FIRE ALARM SYSTEM SHALL BE REPLACED. REMOVE ALL DEVICES AND WIRING. REWORK CONDUIT AND JUNCTION BOXES AS REQUIRED, IF APPROPRIATE AND ALLOWED BY CODE. SEE ELECTRICAL POWER / SYSTEMS PLAN FOR FINAL INTENT.

NOTE: ALL INTERIOR LIGHT FIXTURES, EXIT AND EMERGENCY FIXTURES BEING REPLACED. REMOVE ALL FIXTURES. REWORK CONDUIT AND WIRING, IF APPROPRIATE AND ALLOWED BY CODE, TO NEW LIGHT FIXTURE LOCATIONS. SEE ELECTRICAL LIGHTING PLAN FOR FINAL INTENT.

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



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ELECTRICAL DEMOLITION PLAN

ISSUED DATE	11-21-23 BIDDING & PERMITS
	12-01-23 ADDENDUM #01
DRAWN BY:	JCE
DATE:	08-23
PLOT SCALE:	1:1
JOB NO.	45-2902-23
SHEET	DE101

GENERAL NOTES

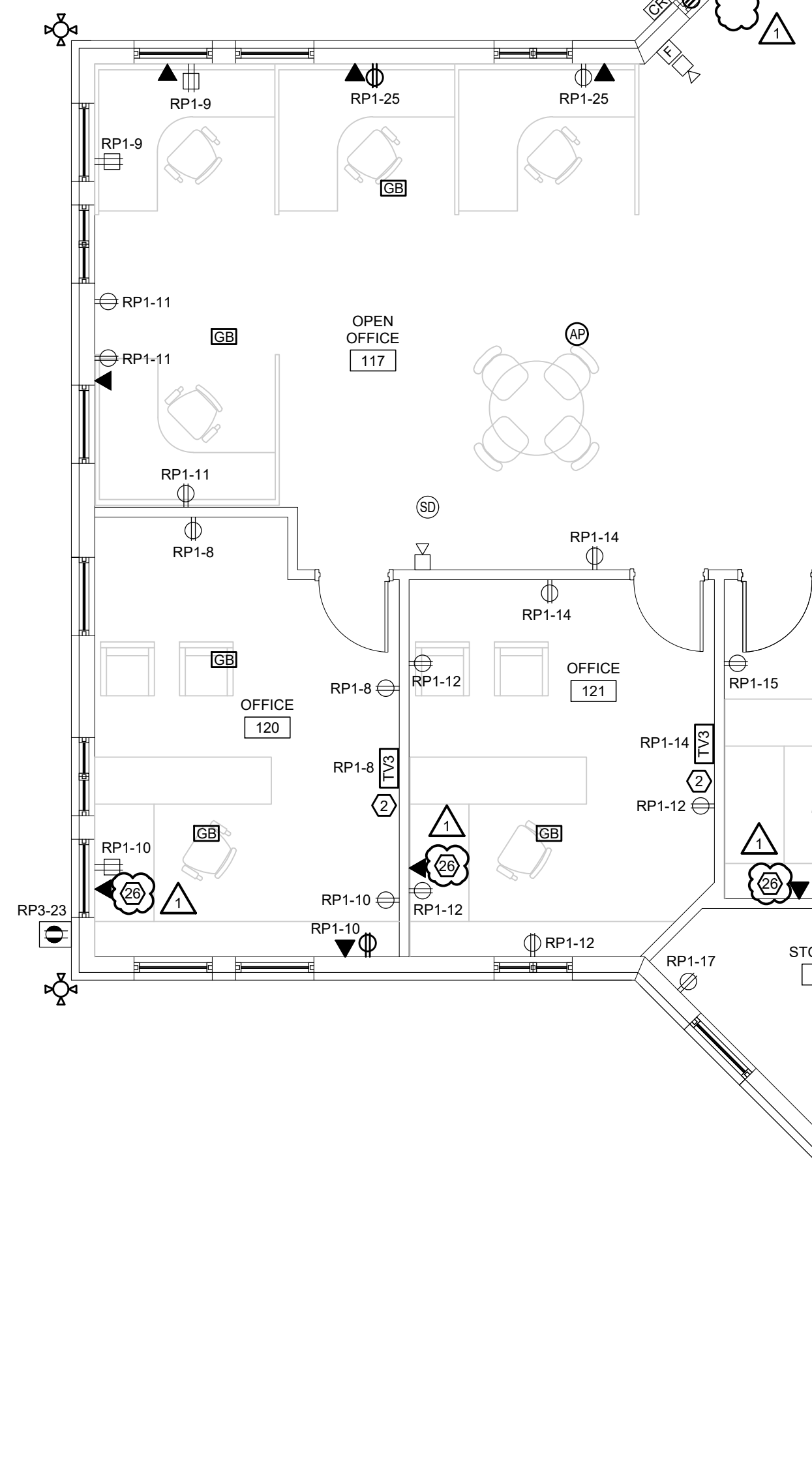
- THE E.C. AND THE G.C. SHALL COORDINATE LOCATIONS OF DOORS W/ELECTRONIC ACCESS CONTROL SYSTEMS. THE G.C. SHALL FURNISH AND INSTALL POWERED RIM EXIT DEVICE, POSITION SWITCH AND WIRING HARNESS (THRU THE FRAME). THE E.C. SHALL STUB A 3/4" CONDUIT FROM TOP OF DOOR FRAME TO ABOVE ACCESSIBLE CEILING WITH 90° ELBOW AND INSULATED BUSHING WITH PULL STRING TO DOOR POSITION SWITCH LOCATION. G.C. SHALL COORDINATE ALL WORK, INCLUDING F ONE CONDUIT CAN BE USED FOR OTHER DEVICES INSTALLED IN DOOR FRAME. THE E.C. SHALL STUB A 3/4" CONDUIT WITH PULL STRING FROM CARD READER SINGLE GANG JUNCTION BOX TO ABOVE ACCESSIBLE CEILING WITH 90° ELBOW AND INSULATED BUSHING. THE OWNER'S ACCESS CONTROL CONTRACTOR SHALL MAKE FINAL TERMINATION TO POWERED RIM EXIT DEVICE. POSITION SWITCH, REX SIGNAL SWITCH IN RAIL. THE OWNER'S ACCESS CONTROL CONTRACTOR SHALL INSTALL THE LAST SECTION OF THE CARD READER CABLE AND POSITION CABLE, FURNISHED AND INSTALLED BY THE E.C. 15'-0" ON J-HOOK ACCESS CONTROL DOOR TO ACCESS CONTROL PANEL. THE OWNER'S ACCESS CONTROL CONTRACTOR SHALL PROVIDE AND INSTALL CARD READER, SOFTWARE, PROGRAMMING, POWER FOR RIM EXIT DEVICE, ETC.

**ADDENDUM 01
ITEM 3**

KEY NOTES (CONTINUED)

- THE CABINERY FABRICATOR/INSTALLER SHALL FIELD DRILL AND CUT HOLES, AT CABINET INTERIOR, FOR CONDUITS AND RICH-IN BOXES. E.C. SHALL COORDINATE ALL WORK, INCLUDING RECEPTACLE HEIGHTS, WITH CABINERY FABRICATOR.
- MOUNT RECEPTACLE AT 60" A.F.F. COORDINATE LOCATION WITH G.C.
- DISCONNECT SUPPLIED WITH MECHANICAL EQUIPMENT. COORDINATE WORK WITH M.C.
- COORDINATE INSTALLATION OF RADIANT PANELS WITH M.C.
- NEW UNDERGROUND CONDUIT AND WIRING TO NEW EV CHARGING STATION. SEE SITE PLAN FOR EXACT LOCATION. EV CHARGING STATION FURNISHED BY OWNER INSTALLED BY CONTRACTOR. SEE ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- NOT USED.
- RECEPTACLE AND DATA COM. IN FLOOR. E.C. TO INSTALL LEGRAND EVOLUTION SERIES, 4 GANG MINIMUM, FLOOR BOX. COORDINATE BOX COVER COLOR AND TYPE WITH OWNER.
- COORDINATE EXACT ROUTING OF UNDERGROUND CONDUIT WITH G.C.
- COORDINATE POWER REQUIREMENTS WITH FIRE ALARM DRAWINGS.
- 2-PORT, SINGLE GANG, FLUSH FACEPLATE, AT DESK LOCATION, CAN BE CHANGED TO A 4-PORT TO ACCOMMODATE CAT 6 FROM TV. COORDINATE WORK WITH OWNER.
- ELECTRICAL RACK, PATCH PANELS, ETC. FURNISHED AND INSTALLED BY E.C. SEE ELECTRICAL SPECIFICATIONS FOR MORE DETAILS.

**ADDENDUM 01
ITEM 3**

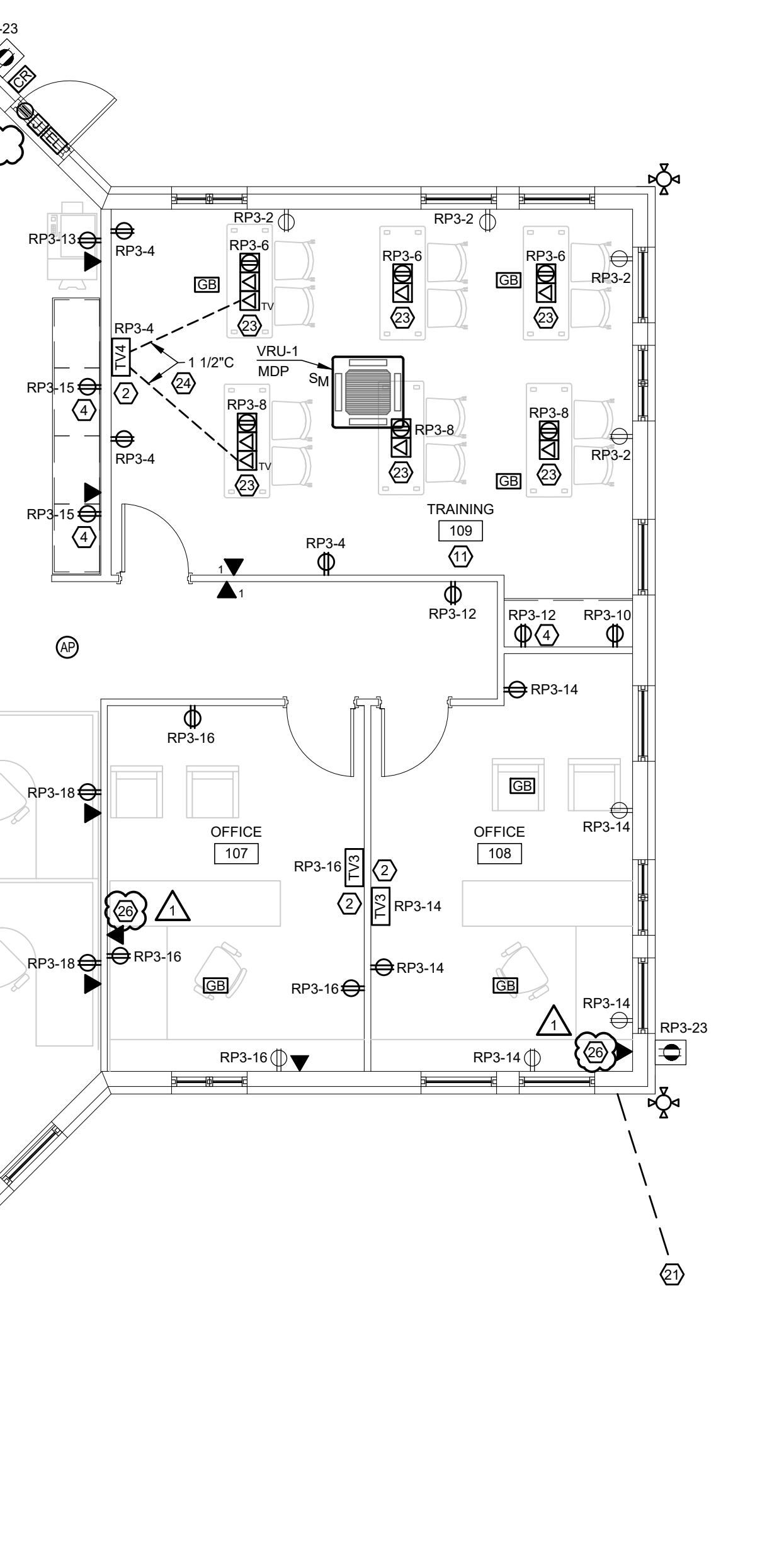


GENERAL FIRE ALARM NOTES:

- THE INTENT OF THE FIRE ALARM DRAWINGS IS TO SHOW DEVICE LOCATIONS ONLY. THE FIRE ALARM SYSTEM CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION OF DRAWINGS WHICH SHALL BE USED FOR OBTAINING THE REQUIRED APPROVALS. DRAWINGS SHALL BE APPROVED BY A.H.J. PRIOR TO STARTING BOX ROUGH-IN.
- THE COMPLETE SYSTEM SHALL COMPLY WITH NFPA, UL AND LOCAL FIRE DEPARTMENT CODES AND REQUIREMENTS.
- ALL FIRE ALARM SYSTEM WORK (DEVICES, WIRING, COMPONENTS) SHALL BE INCLUDED IN THE PROJECT CONTRACT. ROUGH-IN BOXES, CONDUITS, ETC. SHALL BE FURNISHED & INSTALLED BY THE E.C. AS INDICATED ON DRAWINGS AS PART OF THE PROJECT GENERAL CONTRACT.

KEY NOTES

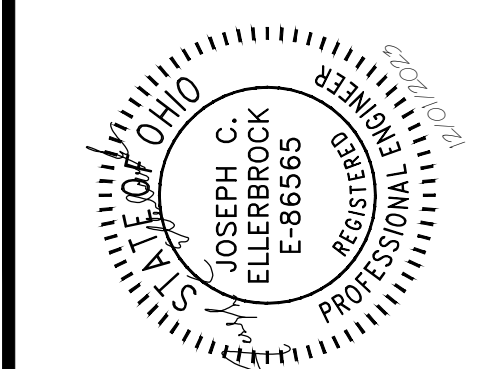
- EXISTING LAWN SPRINKLER CONTROL RELOCATED.
- MOUNT BOTTOM OF TV BOX AT 560" A.F.F. COORDINATE EXACT HEIGHT WITH G.C. PRIOR TO ROUGH-IN.
- EXISTING DUCT HUMIDIFIER TO REMAIN. LEAVING ON EXISTING CIRCUIT. FIELD VERIFY CIRCUIT NUMBER.
- MOUNT RECEPTACLE AND/OR DATA OUTLET AT 44" A.F.F.
- E.C. SHALL VERIFY THE LOCATION OF THE OVERHEAD DOOR OPERATOR WITH G.C./SHOP DRAWINGS, TO DETERMINE PROPER LOCATION OF THE RECEPTACLE OR MEANS OF DISCONNECT.
- CONTROL ENCLOSURE FOR THERMOSTAT. TO BE ON SAME CIRCUIT AS UNIT HEATERS. E.C. SHALL REWORK CONDUIT AND WIRING, IF REQUIRED (FIELD VERIFY). SEE MECHANICAL PLANS.
- EXISTING UNIT HEATER TO REMAIN. FURNISH AND INSTALL NEW DISCONNECT SWITCH.
- EXISTING LOUVER AND CONTROL DAMPER TO REMAIN. SEE MECHANICAL PLANS FOR NEW CONTROL SEQUENCE. REWORK CONDUIT AND WIRING AS NEEDED. FURNISH AND INSTALL NEW DISCONNECT SWITCH.
- ELECTRIC HEAT TRACE SHALL BE INSTALLED BY M.C. E.C. SHALL INSTALL CONDUIT, WIRE, DISCONNECT, ETC. AS NEEDED. COORDINATE WITH M.C. FOR POWER REQUIREMENTS.
- COORDINATE VOICE/DATA CABINET POWER REQUIREMENTS WITH OWNER, PRIOR TO ROUGH-IN.
- TRAINING 109 AND CONFERENCE 104, RECEPTACLES SHALL BE INSTALLED PER NEC ARTICLE 210.71. FIELD VERIFY EXISTING RECEPTACLE LOCATIONS.
- EXISTING RECEPTACLES IN REMOVED WALL SHALL BE RELOCATED AS POWER DROPS FROM CEILING. POWER AND DATA OUTLETS SHALL EXTEND TO 4'-6" A.F.F. SEE DETAILS 1&2/E01.
- REWORK CONDUIT AND WIRING AS NEEDED FOR OWNER SUPPLIED EXTERIOR SIGN. INSTALL NEW JUNCTION BOX WHERE REQUIRED. COORDINATE SIGN LOCATION WITH G.C.
- E.C. SHALL INSTALL POWER FOR DISHWASHER ACCORDING TO MANUFACTURER'S INSTRUCTIONS. E.C. SHALL FURNISH AND INSTALL FLEXIBLE CORD AND RECEPTACLE IN THE SPACE ADJACENT TO THE DISHWASHER. PER NEC ARTICLE 422.16(B)(2), APPLIANCES ARE SUPPLIED BY OWNER AND INSTALLED BY G.C. E.C. SHALL COORDINATE WORK WITH G.C.
- E.C. TO INSTALL SWITCH FOR CONTROL OF GARBAGE DISPOSER UNDER SINK, ON CABINET WALL. COORDINATE LOCATION WITH CABINET INSTALLER.
- GARBAGE DISPOSER INSTALLED BY P.C. E.C. SHALL FURNISH AND INSTALL POWER CORD, IF APPLICABLE. COORDINATE WORK WITH P.C.



NOTE: E.C. SHALL INSTALL WIRING IN PLENUM PER NEC ARTICLE 300.22.

NOTE: E.C. SHALL COORDINATE ALL RECEPTACLE AND DATA LOCATIONS WITH OWNER PRIOR TO ROUGH-IN.

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



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**ELECTRICAL
POWER / SYSTEMS
PLAN**

ISSUED DATE
11-21-23 BIDDING & PERMITS
12-01-23 ADDENDUM #01

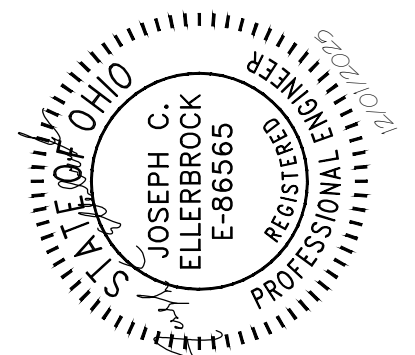
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DATE: 08-23

PLOT SCALE: 1:1

JOB NO. 45-2902-23

SHEET
E101



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ELECTRICAL LIGHTING PLAN

ISSUED DATE

11-21-23 BIDDING & PERMITS
01-09-24 PERMITS

DRAWN BY: JCE

DATE: 08-23

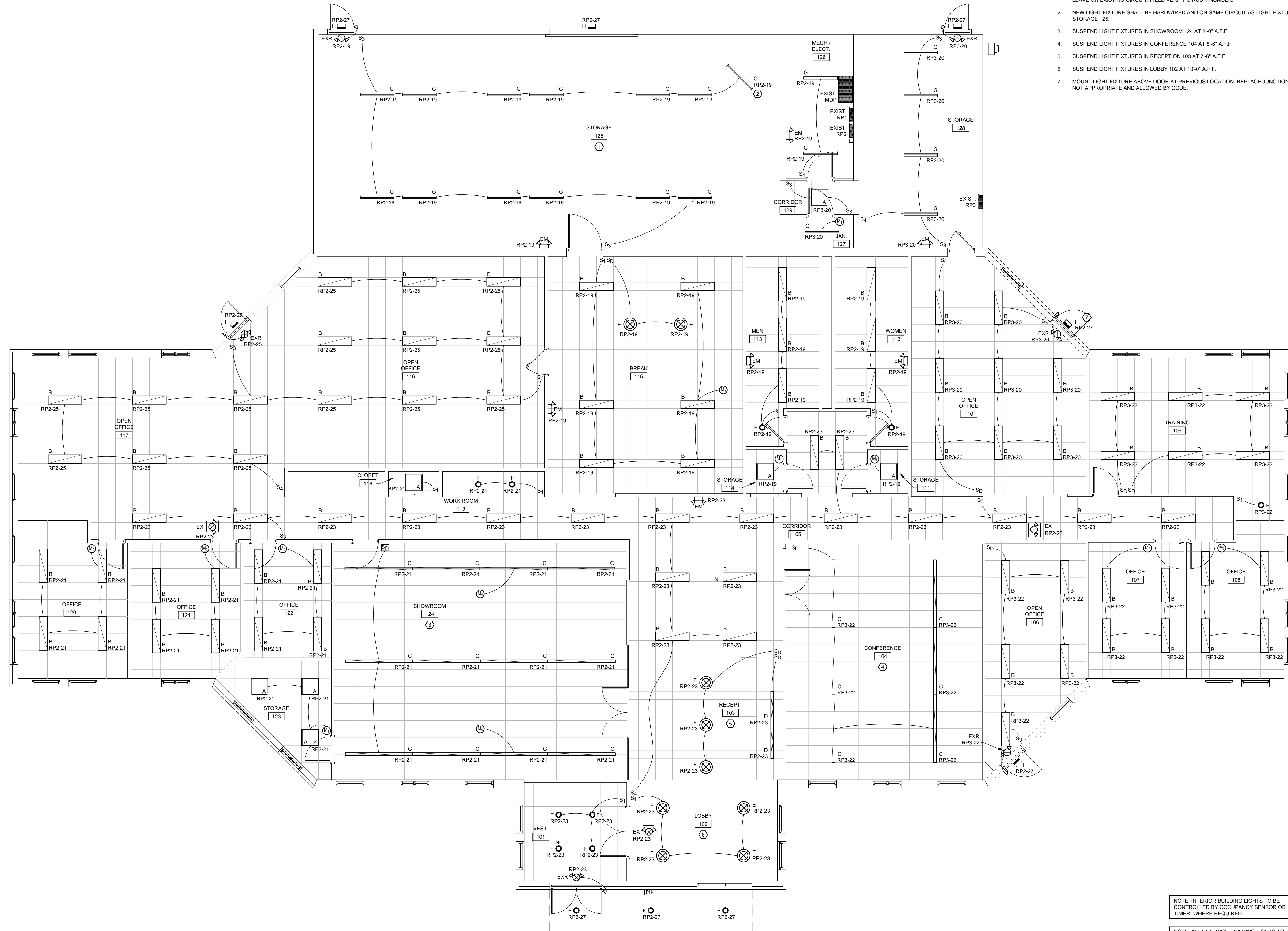
PLOT SCALE: 1:1

JOB NO. 45-2902-23

SHEET
E121

KEY NOTES

1. REPLACE EXISTING SUSPENDED LIGHT FIXTURES IN STORAGE 125 WITH NEW FIXTURES. LEAVE ON EXISTING CIRCUIT. FIELD VERIFY CIRCUIT NUMBER.
2. NEW LIGHT FIXTURE SHALL BE HARDWIRED AND ON SAME CIRCUIT AS LIGHT FIXTURES IN STORAGE 125.
3. SUSPEND LIGHT FIXTURES IN SHOWROOM 124 AT 8'-0" A.F.F.
4. SUSPEND LIGHT FIXTURES IN CONFERENCE 104 AT 8'-6" A.F.F.
5. SUSPEND LIGHT FIXTURES IN RECEPTION 103 AT 7'-6" A.F.F.
6. SUSPEND LIGHT FIXTURES IN LOBBY 102 AT 10'-0" A.F.F.
7. MOUNT LIGHT FIXTURE ABOVE DOOR AT PREVIOUS LOCATION. REPLACE JUNCTION BOX IF NOT APPROPRIATE AND ALLOWED BY CODE.



NOTE: INTERIOR BUILDING LIGHTS TO BE CONTROLLED BY OCCUPANCY SENSOR OR TIMER, WHERE REQUIRED.

NOTE: ALL EXTERIOR BUILDING LIGHTS TO BE CONTROLLED BY PHOTOCELL AND TIMER

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



GENERAL ELECTRICAL NOTES:

- 1. THE CONTRACTOR SHALL KEEP COPIES OF DRAWINGS MARKED IN RED TO CLEARLY INDICATE ALL CHANGES MADE AND THE EXACT LOCATIONS OF CONDUITS CONCEALED UNDER CONCRETE OR PAVING. A COPY OF THESE DRAWINGS SHALL BE SENT TO THE OWNER UPON COMPLETION OF THE JOB. THESE DRAWINGS SHALL BE MARKED AS 'ELECTRICAL AS-BUILT DRAWINGS'

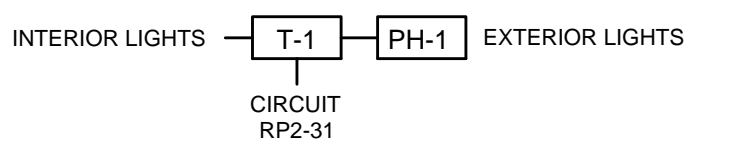
ELECTRICAL ABBREVIATIONS

Table listing electrical abbreviations such as E.C., P.C., G.C., M.C., F.P.C., T.C.C., A.H.J., A.F.F., U.N.O., C.P., SPD, NEC, NL, CU, ALUM, AFCI, GFCI, WP, CMU, and UNDERGROUND CONDUIT.

Table titled 'ELECTRICAL BRANCH CIRCUITS 1' with columns for AMP/VOLTPHASE and WIRE (CU) & CONDUIT (EMT), listing specifications for various circuits.

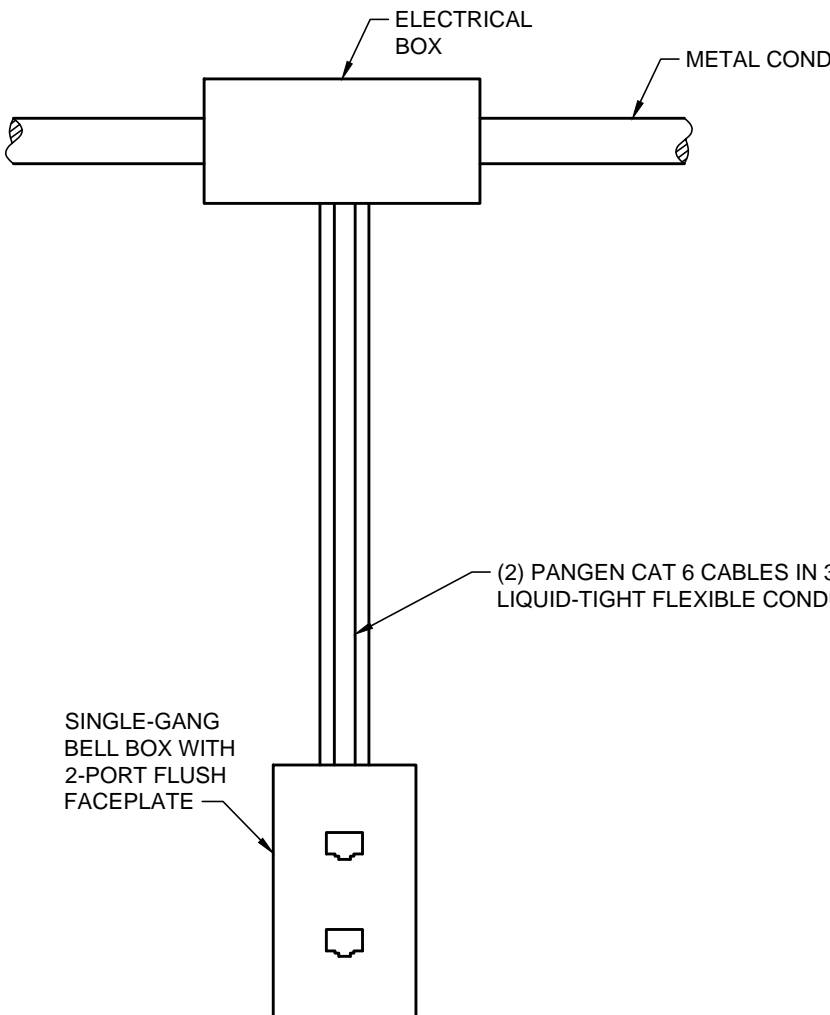
LIGHTING LEGEND table with columns: TYPE, DESCRIPTION, MFR, MODEL, MOUNTING HEIGHT (A.F.F.), COVER PLATE COLOR, V, PH, Amps, NOTES.

NOTES LEGEND table with 2 entries: 1. VERIFY DEVICE COLOR AND/OR COVER PLATE WITH OWNER; 2. POWER PACK SHALL BE INCLUDED WITH OCCUPANCY SENSOR(S) FOR A COMPLETE AND OPERABLE LIGHTING CONTROL SYSTEM.



SYMBOL LEGEND: T-1 MULTI-PURPOSE 365 DAY DIGITAL TIME CLOCK, 120V, TORK OR EQUAL; PH-1 STEM MOUNTED PHOTOCELL CONTROL SWITCH W/ LIGHT LEVEL SLIDE ADJUSTMENT...

3 TIMER/LIGHTING CONTROL/SWITCH RISER SCALE: N.T.S.

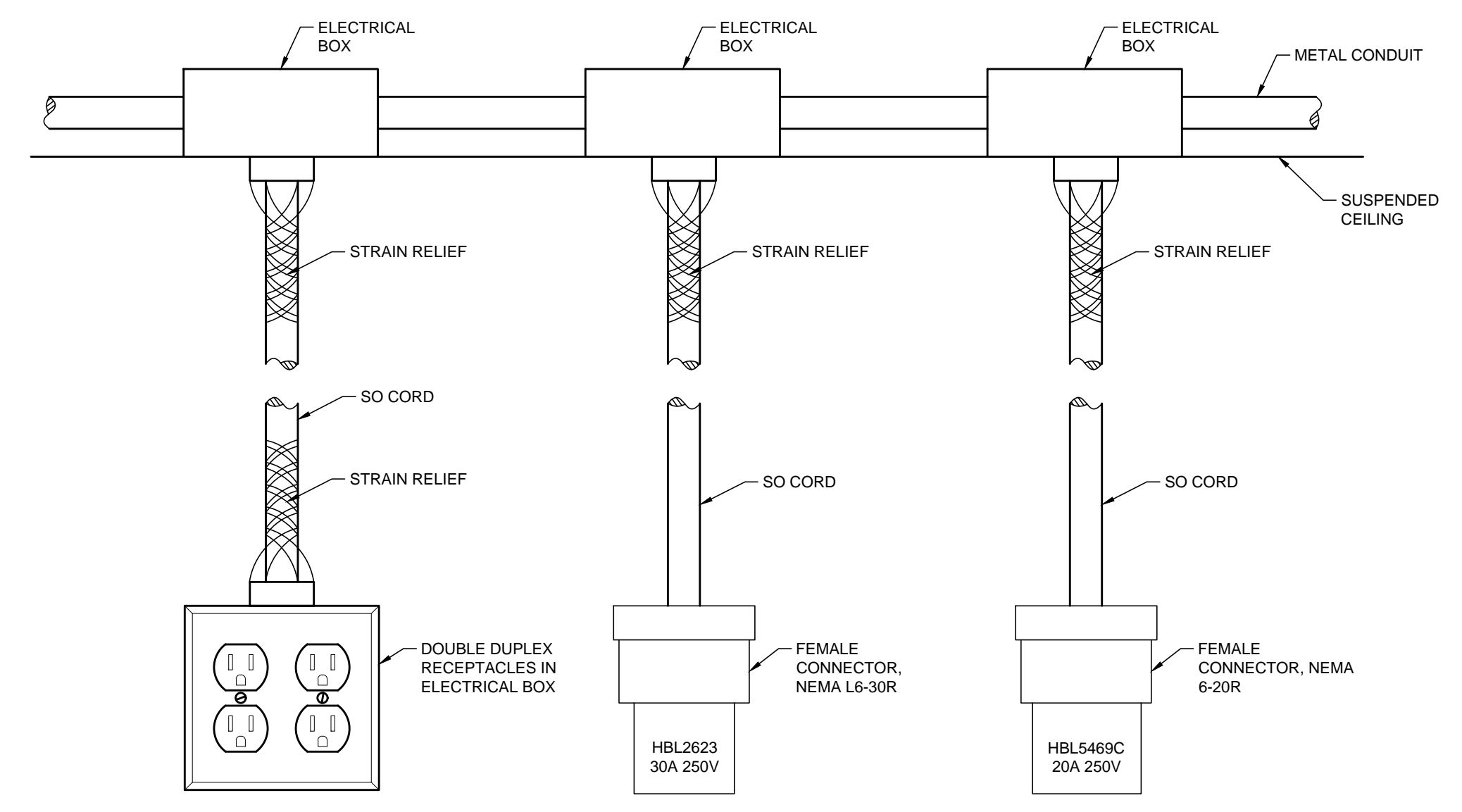


NOTES: 1. BOTTOM OF SINGLE-GANG BELL BOX SHALL BE 4'-6" A.F.F. U.N.O.

2 DATA CABLE DROP DETAIL SCALE: N.T.S.

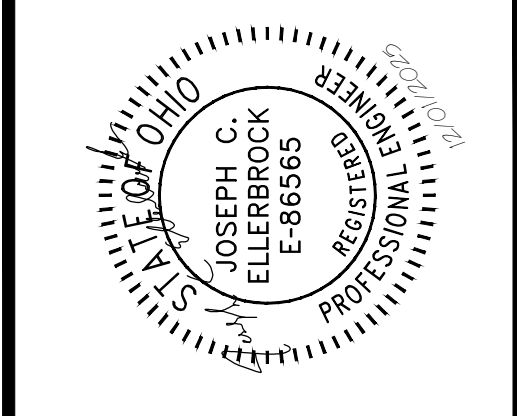
LIGHT FIXTURE SCHEDULE table with columns: TYPE, MARK, DESCRIPTION, MFR AND MODEL, MOUNTING, FINISH, LAMPS, COLOR TEMP., WATTAGE, NOTES.

NOTES LEGEND table with 7 entries: 1. LAMPS BY FIXTURE SUPPLIER; 2. EXIT LIGHT TO BE FURNISHED WITH REMOTE TWIN HEADS; 3. INTERIOR LIGHT FIXTURES, TRIM SHALL BE WHITE; 4. 0-10V DIMMING DRIVER; 5. WET LOCATION LISTED; 6. COORDINATE WITH OWNER FOR LUMEN OUTPUT SETTING AND/OR COLOR TEMPERATURE; 7. SEE LIGHTING PLAN FOR MOUNTING HEIGHT.



NOTES: 1. IN SHOWROOM 124: DOUBLE DUPLEX RECEPTACLES SHALL BE INSTALLED A MAXIMUM OF 3'-0", FROM CENTER LINE, APART. 2. IN SHOWROOM 124: INSTALL NUMBER OF RECEPTACLES AS NOTED ON DRAWING. 3. HANGING RECEPTACLES OR FEMALE CONNECTORS SHALL BE INSTALLED IN A STRAIGHT LINE. 4. BOTTOM OF ELECTRICAL BOX SHALL BE 4'-6" A.F.F. U.N.O.

1 POWER CABLE DROP DETAIL SCALE: N.T.S.



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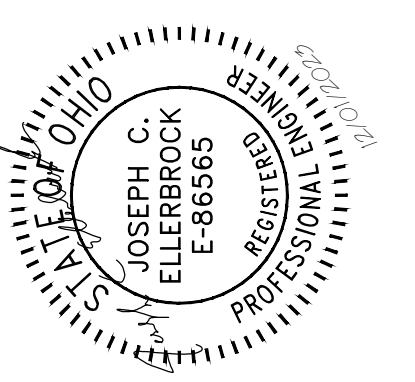
BUILDING RENOVATIONS, PERRY PROTECH, 1270 FLAGSHIP DRIVE, PERRYSBURG, OH 43551

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ELECTRICAL LIGHT FIXTURE SCHEDULE LIGHTING LEGEND DETAILS, GENERAL NOTES

ISSUED DATE table: 11-21-23 BIDDING & PERMITS; 01-09-24 PERMITS

DRAWN BY: JCE; DATE: 08-23; PLOT SCALE: 1:1; JOB NO.: 45-2902-23



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ELECTRICAL LEGENDS PANEL SCHEDULES ONE-LINE DIAGRAM

ISSUED DATE
11-21-23 BIDDING & PERMITS
12-01-23 ADDENDUM #01

DRAWN BY: JCE

DATE: 08-23

PLOT SCALE: 1:1

JOB NO. 45-2902-23

SHEET E601

EXISTING ELECTRICAL PANEL RP2 SCHEDULE. Table with columns: NO BREAKER, DESCRIPTION, KVA, A, B, C, KVA, DESCRIPTION, BREAKER NO. Includes subtotals for 120/208V, 3 PHASE, 4 WIRE: 33.42 KVA, 93 AMPS.

EXISTING ELECTRICAL PANEL RP3 SCHEDULE. Table with columns: NO BREAKER, DESCRIPTION, KVA, A, B, C, KVA, DESCRIPTION, BREAKER NO. Includes subtotals for 120/208V, 3 PHASE, 4 WIRE: 19.99 KVA, 55 AMPS.

FIRE ALARM LEGEND. Table with columns: TYPE, Description. Includes items like FIRE ALARM ANNUNCIATOR, STROBE ONLY, MANUAL PULL STATION, FIRE ALARM SMOKE DETECTOR, etc.

ONE-LINE DIAGRAM NOTES

- 1. E.C. SHALL PROVIDE MARKING TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS PER NEC ARTICLE 110.16.
- 2. SERVICE EQUIPMENT SHALL BE FIELD MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE MARKING SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED PER NEC 110.24.
- 3. EXISTING GROUNDING TO REMAIN.
- 4. EXISTING CONDUIT AND WIRING TO REMAIN.
- 5. REWORK CONDUIT AND WIRING AS REQUIRED, IF APPROPRIATE AND ALLOWED BY CODE. WIRE SIZE SHOULD BE ACCEPTABLE. FIELD VERIFY.
- 6. NEW SURGE PROTECTIVE DEVICE.
- 7. #10 CU & #10 GRD - 3/4"
- 8. #2 CU & #6 GRD - 1" OR #2 AL & #6 GRD - 1-1/4"
- 9. #2 CU & #6 GRD - 1"
- 10. FURNISH AND INSTALL NON-FUSED DISCONNECT PER NEC ARTICLE 625.43.
- 11. ONE CONDUIT MAY BE INSTALLED INSTEAD OF TWO WITH FOUR HOTS AND ONE GROUND. IF ONE CONDUIT INSTALLED, SIZE SHALL BE A MINIMUM OF 2" AND WIRE SIZES MUST BE ADJUSTED PER NEC TABLE 310.15(B)(3)(a).
- 12. REMOVE EXISTING CIRCUIT BREAKER AND INSTALL NEW CIRCUIT BREAKER OR INSTALL IN SPARE SECTION. FIELD VERIFY EXISTING EQUIPMENT AND MODIFY AS NEEDED.
- 13. CIRCUIT BREAKER SHALL BE 30 MILLIAMPER GPPE RATED.
- 14. #2#12 CU & #12 GRD - 3/4"
- 15. #3#8 CU & #10 GRD - 3/4"

ONE-LINE DIAGRAM GENERAL NOTES

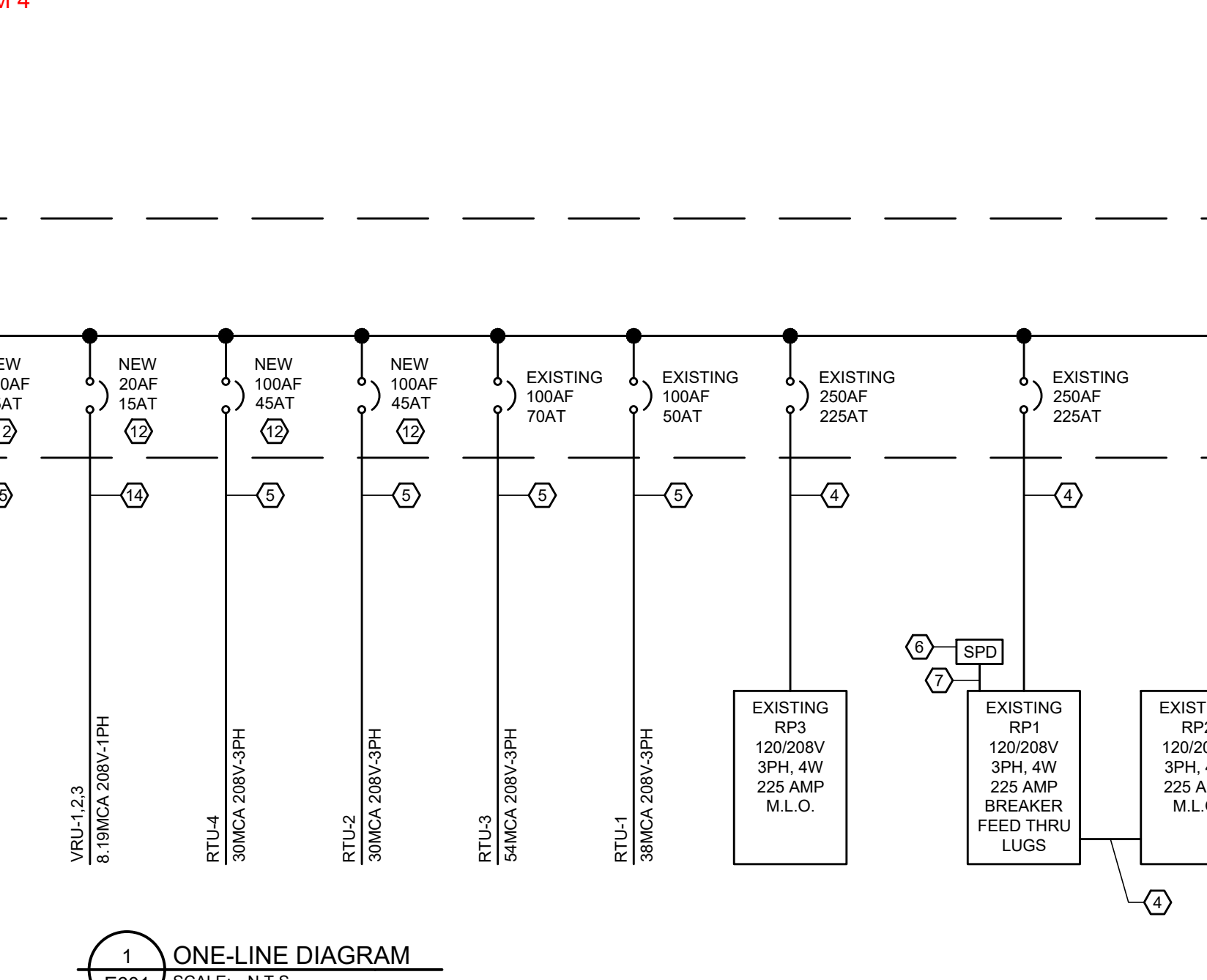
- A. EXISTING PAD MOUNTED TRANSFORMER TO REMAIN.
- B. SEE LOAD SCHEDULE FOR CIRCUIT BREAKER SIZES AND QUANTITIES.
- C. E.C. SHALL PERFORM SHORT CIRCUIT STUDY ON PROPOSED DISTRIBUTION SYSTEM. THE AIC OR SCOR OF EQUIPMENT SHALL MEET OR EXCEED THE CALCULATED (ISC) VALUES OF THE SHORT CIRCUIT STUDY. FIELD VERIFY EXISTING AIC OR SCOR OF EQUIPMENT.

EXISTING ELECTRICAL PANEL RP1 SCHEDULE. Table with columns: NO BREAKER, DESCRIPTION, KVA, A, B, C, KVA, DESCRIPTION, BREAKER NO. Includes subtotals for 120/208V, 3 PHASE, 4 WIRE: 23.40 KVA, 65 AMPS.

SECURITY LEGEND. Table with columns: TYPE, DESCRIPTION, NOTES. Includes items like INTERIOR CAMERA, EXTERIOR CAMERA, ACCESS CONTROL, etc.

- 1. CAMERA FURNISHED AND INSTALLED BY OWNER'S SECURITY CONTRACTOR
- 2. INSTALL 2 1/8" DEEP, 4" SQUARE BOX WITH SINGLE GANG PLASTER RING. PROVIDE GROMMET IN OPENING FOR CABLING IF LOCATED ABOVE ACCESSIBLE CEILING. IF NOT LOCATED ABOVE ACCESSIBLE CEILING, INSTALL 1" C TO ACCESSIBLE CEILING WITH 90° ELBOW AND INSULATED BUSHING. CAMERA OUTLET CONSISTING OF CAT 6 RJ45 MINI-COM JACK (WHITE) WITH PANGEN CAT 6 4UTP CABLE (WHITE JACKET) ROUTED TO VOICE/DATA CABINET, LOCATED IN MECH/ELECT 126. COORDINATE WORK WITH OWNER'S SECURITY CONTRACTOR
- 3. INSTALL OWNER PROVIDED CAMERA CORNER MOUNT. INSTALL 3/4" LIQUIDTIGHT CONDUIT FROM CAMERA CORNER MOUNT TO TYPE-LB CONDUIT BODY. INSTALL 3/4" CONDUIT FROM TYPE-LB CONDUIT BODY BOX TO ACCESSIBLE CEILING WITH 90° ELBOW AND INSULATED BUSHING. CONDUIT THROUGH WALL SHALL BE SLANTED TOWARDS OUTSIDE WITH WEATHERPROOF SEALANT AT WALL PENETRATIONS. CAMERA OUTLET TO BE LOCATED INSIDE BUILDING ABOVE ACCESSIBLE CEILING CONSISTING OF CAT 6 RJ45 MINI-COM JACK (WHITE) WITH GENSPED CAT 6 4UTP CABLE (WHITE JACKET) ROUTED TO VOICE/DATA CABINET, LOCATED IN MECH/ELECT 126. COORDINATE WORK WITH OWNER'S SECURITY CONTRACTOR
- 4. FURNISH AND INSTALL SINGLE GANG JUNCTION BOX AND CONDUIT WITH PULL STRING, M.H. 44" A.F.F. FURNISH AND INSTALL ACCESS CONTROL CABLE (GENESIS 21965002, COLOR YELLOW) FROM ACCESS CONTROL LOCATION, 15'-0" ON J-HOOK ABOVE ACCESS CONTROL DOOR, TO ACCESS CONTROL PANEL, LOCATED IN MECH/ELECT 126. FINAL TERMINATIONS BY OWNER, E.C., G.C. AND OWNER SHALL COORDINATE LOCATIONS AND RESPONSIBILITIES FOR WORK AT DOORS WITH ELECTRONIC ACCESS CONTROL SYSTEMS. THE OWNER SHALL INSTALL POWER TO THE ELECTRONIC STRIKE (THROUGH DOOR FRAME) AND SHALL FURNISH AND INSTALL ACCESS CONTROL DEVICE WIRING, HARDWARE, SOFTWARE, PROGRAMMING, ETC.
- 5. G.C. TO FURNISH AND INSTALL, E.C. SHALL STUB 3/4" CONDUIT FROM TOP OF DOOR FRAME TO ABOVE ACCESSIBLE CEILING WITH 90° ELBOW AND INSULATED BUSHING WITH PULL STRING TO POSITION SWITCH. COORDINATE WITH G.C. IF ONE CONDUIT CAN BE USED FOR OTHER DEVICES INSTALLED IN DOOR FRAME
- 6. FURNISH AND INSTALL 22#4 STRANDED UNSHIELDED CABLE FROM EACH GLASS BREAK SENSOR LOCATION WITH 10'-0" SERVICE LOOP TO ACCESS CONTROL PANEL. LOCATED IN MECH/ELECT 126. DEVICE TO BE FURNISHED BY OWNER, INSTALLED BY CONTRACTOR. COORDINATE WORK WITH OWNER.
- 7. FURNISH AND INSTALL 18#4 STRANDED UNSHIELDED CABLE FROM DOOR CONTACT TO ACCESS CONTROL PANEL. LOCATED IN MECH/ELECT 126. INSTALL CABLE IN 1" FROM DOOR CONTACT TO DATA CABINET. DEVICE TO BE FURNISHED BY OWNER, INSTALLED BY CONTRACTOR. COORDINATE WORK WITH OWNER.

ADDENDUM 01 ITEM 4



ONE-LINE DIAGRAM SCALE: N.T.S.

POWER & DATA LEGEND

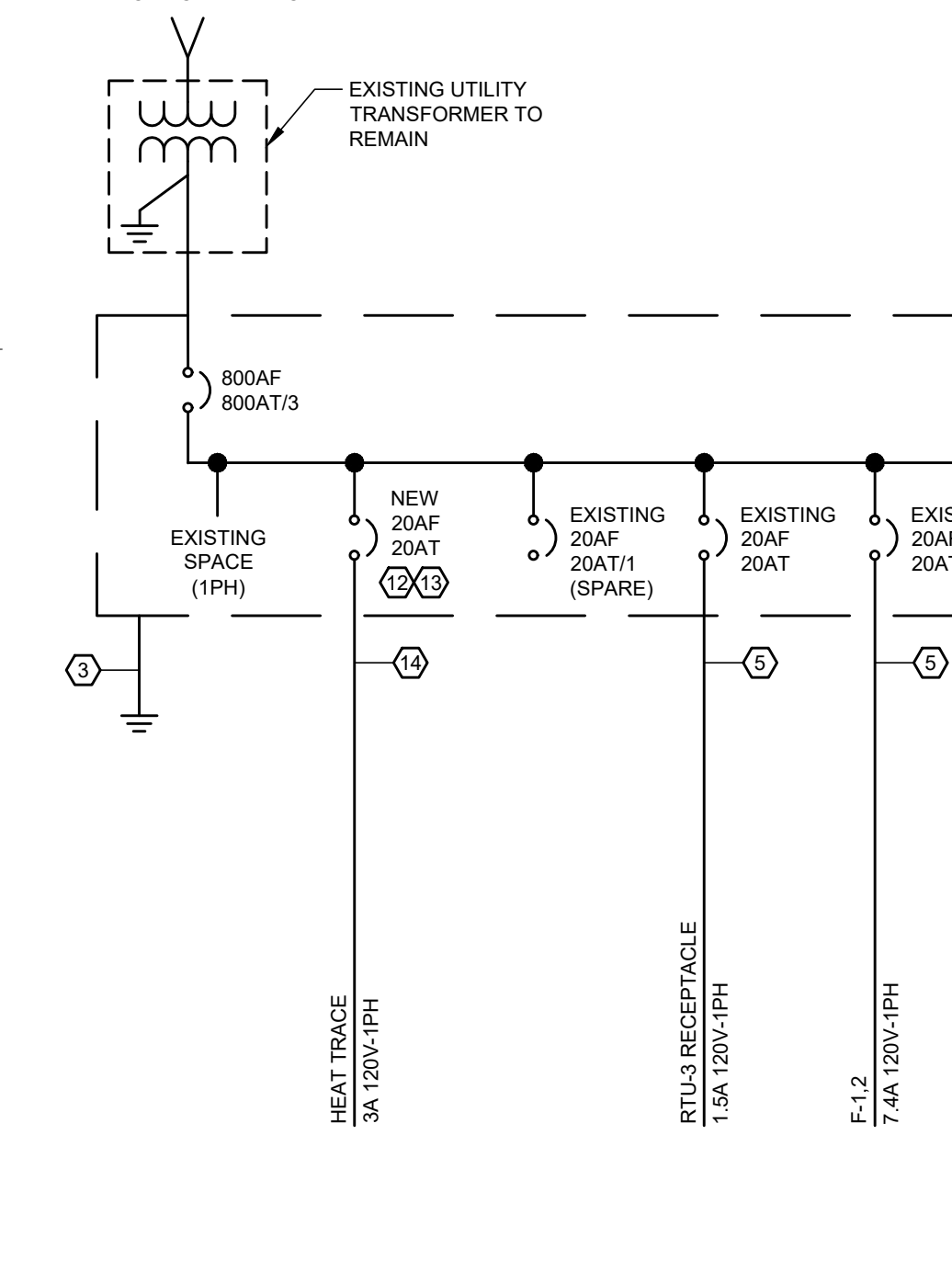
Table with columns: TYPE, DESCRIPTION, MFR, MODEL, MOUNTING HEIGHT (A.F.F.), COVER PLATE COLOR, V, PH, AMPS, NEMA, NOTES. Lists various electrical components like switches, receptacles, junction boxes, and outlets.

- 1. E.C. TO VERIFY SIZE WITH EQUIPMENT, FUSE AS NOTED OR PER MANUFACTURER'S SPECIFICATIONS & MOUNT PER NEC
- 2. E.C. TO VERIFY DEVICE COLOR AND/OR COVER PLATE WITH OWNER
- 3. WIRING AND/OR CONDUIT FROM J-BOX TO PANEL OR AS NOTED ON DRAWING
- 4. ONE NEMA 5-20R DUPLEX RECEPT. E.C. SHALL PROVIDE 3/4" C (POWER) AND 1-1/4" C (LOW VOLTAGE); ROUTE LOW VOLTAGE CONDUIT TO ABOVE ACCESSIBLE CEILING SPACE WITH 90° ELBOW AND INSULATED BUSHING
- 5. INSTALL WEATHER-RESISTANT GFCI RECEPTACLE IN CAST ALUMINUM BOX W/ EXTRA DUTY LISTED WEATHERPROOF WHILE-IN-USE COVER
- 6. INSTALL 2 1/8" DEEP, 4 1/16" SQUARE BOX WITH 1-GANG PLASTER RING, STUB 1" C TO ACCESSIBLE CEILING WITH 90° ELBOW AND INSULATED BUSHING
- 7. HORSEPOWER RATED WITH OVERCURRENT PROTECTION (IF REQUIRED) AND PILOT LIGHT. SEE PLAN FOR VOLTAGE REQUIREMENT
- 8. COMMUNICATIONS OUTLET CONSISTING OF (1) 2-PORT, SINGLE GANG, FLUSH FACEPLATE AND (1) PANDUIT CAT 6 RJ45 MINI-COM JACK (BLUE) WITH (1) GENSPED CAT 6 4UTP CABLE (BLUE JACKET) ROUTED TO VOICE/DATA CABINET
- 9. COMMUNICATIONS OUTLET CONSISTING OF (1) 2-PORT, SINGLE GANG, FLUSH FACEPLATE AND (2) PANDUIT CAT 6 RJ45 MINI-COM JACKS (BLUE) WITH (2) GENSPED CAT 6 4UTP CABLES (BLUE JACKET) ROUTED TO VOICE/DATA CABINET
- 10. COMMUNICATIONS OUTLET CONSISTING OF (1) 2-PORT, SINGLE GANG, FLUSH FACEPLATE AND (2) PANDUIT CAT 6 RJ45 MINI-COM JACKS (WHITE) WITH (2) GENSPED CAT 6 4UTP CABLES (WHITE JACKET) ROUTED TO VOICE/DATA CABINET. PROVIDE 20'-0" OF COILED CABLE ON J-HOOK ABOVE ACCESSIBLE CEILING, WITH RJ45 ENDS, FOR CONNECTION TO WIRELESS ACCESS POINT. WIRELESS ACCESS POINT FURNISHED BY OWNER, INSTALLED BY CONTRACTOR
- 11. COMMUNICATIONS OUTLET CONSISTING OF (1) 2-PORT, SINGLE GANG, FLUSH FACEPLATE AND (2) PANDUIT CAT 6 RJ45 MINI-COM JACKS (WHITE) WITH (2) GENSPED CAT 6 4UTP CABLES (WHITE JACKET) ROUTED FROM RECESSED TV WALL BOX TO VOICE/DATA CABINET
- 12. COMMUNICATIONS OUTLET CONSISTING OF (1) 4-PORT, SINGLE GANG, FLUSH FACEPLATE AND (2) PANDUIT CAT 6 RJ45 MINI-COM JACKS (WHITE) WITH (2) GENSPED CAT 6 4UTP CABLES (WHITE JACKET) ROUTED FROM RECESSED TV WALL BOX TO VOICE/DATA CABINET. ALSO, FURNISH AND INSTALL 1-1/4" C FROM TV WALL BOX TO SINGLE GANG JUNCTION BOX BELOW TV WALL BOX, MOUNT BOTTOM OF JUNCTION BOX AT 16" A.F.F.
- 13. COMMUNICATIONS OUTLET CONSISTING OF (1) 4-PORT, SINGLE GANG, FLUSH FACEPLATE, (2) PANDUIT CAT 6 RJ45 MINI-COM JACKS (WHITE), AND (1) PANDUIT CAT 6 RJ45 MINI-COM JACK (BLACK) WITH (2) GENSPED CAT 6 4UTP CABLES (WHITE JACKET) ROUTED FROM RECESSED TV WALL BOX TO VOICE/DATA CABINET AND INSTALL (1) GENSPED CAT 6 4UTP FROM TV WALL BOX TO (1) 1-PORT, SINGLE GANG, FLUSH FACEPLATE AT DESK LOCATION (MAY BE COMBINED WITH DATA DROP LOCATION)
- 14. COMMUNICATIONS OUTLET CONSISTING OF (1) 6-PORT, SINGLE GANG, FLUSH FACEPLATE AND (3) PANDUIT CAT 6 RJ45 MINI-COM JACKS (WHITE) WITH (3) GENSPED CAT 6 4UTP CABLES (WHITE JACKET) ROUTED FROM RECESSED TV WALL BOX TO VOICE/DATA CABINET. ALSO, FURNISH AND INSTALL 1" C TO ABOVE ACCESSIBLE CEILING SPACE WITH 90° ELBOW AND INSULATED BUSHING AND 1-1/2" C FROM TV WALL BOX TO FLOOR BOXES. 1-1/2" C SHALL CONSIST OF (2) PANDUIT CAT 6 RJ45 MINI-COM JACK (WHITE) WITH (2) GENSPED CAT 6 4UTP CABLES (WHITE JACKET). CONTRACTOR WILL FURNISH, OWNER WILL INSTALL CAT 6 CABLING FROM TV WALL BOX TO FLOOR BOX
- 15. INSTALL 2 1/8" DEEP, 4 1/16" SQUARE BOX WITH 1-GANG PLASTER RING INSTALLED ABOVE CEILING OR SURFACE MOUNT ON STRUCTURE AS INDICATED. FOR ABOVE CEILING INSTALLATION, SURFACE MOUNT ON STRUCTURE ABOVE ACCESSIBLE CEILING. PROVIDE GROMMET IN OPENING FOR CABLING
- 16. COMMUNICATIONS OUTLET CONSISTING OF (1) 6-PORT, SINGLE GANG, FLUSH FACEPLATE AND (3) PANDUIT CAT 6 RJ45 MINI-COM JACKS (WHITE) WITH (3) GENSPED CAT 6 4UTP CABLES (WHITE JACKET) ROUTED FROM RECESSED TV WALL BOX TO VOICE/DATA CABINET. ALSO, FURNISH AND INSTALL 1" C TO ABOVE ACCESSIBLE CEILING SPACE WITH 90° ELBOW AND INSULATED BUSHING AND 1-1/2" C FROM TV WALL BOX TO FLOOR BOXES. 1-1/2" C SHALL CONSIST ONLY OF (2) PANDUIT CAT 6 RJ45 MINI-COM JACKS (BLACK) WITH (2) GENSPED CAT 6 4UTP CABLES (WHITE JACKET). CONTRACTOR WITH FURNISH, OWNER WILL INSTALL CAT 6 CABLING FROM TV WALL BOX TO FLOOR BOX
- 17. ADJUST WALL PART NUMBER ACCORDINGLY FOR LOCATION REQUIRING MORE PORTS

NEW LOAD SUMMARY (MDP)

Table with columns: LOAD DESCRIPTION, CONNECTED LOAD, DEMAND FACTOR, CODE MIN. (KVA). Includes categories like Lighting, Receptacles, HVAC Equipment, etc.

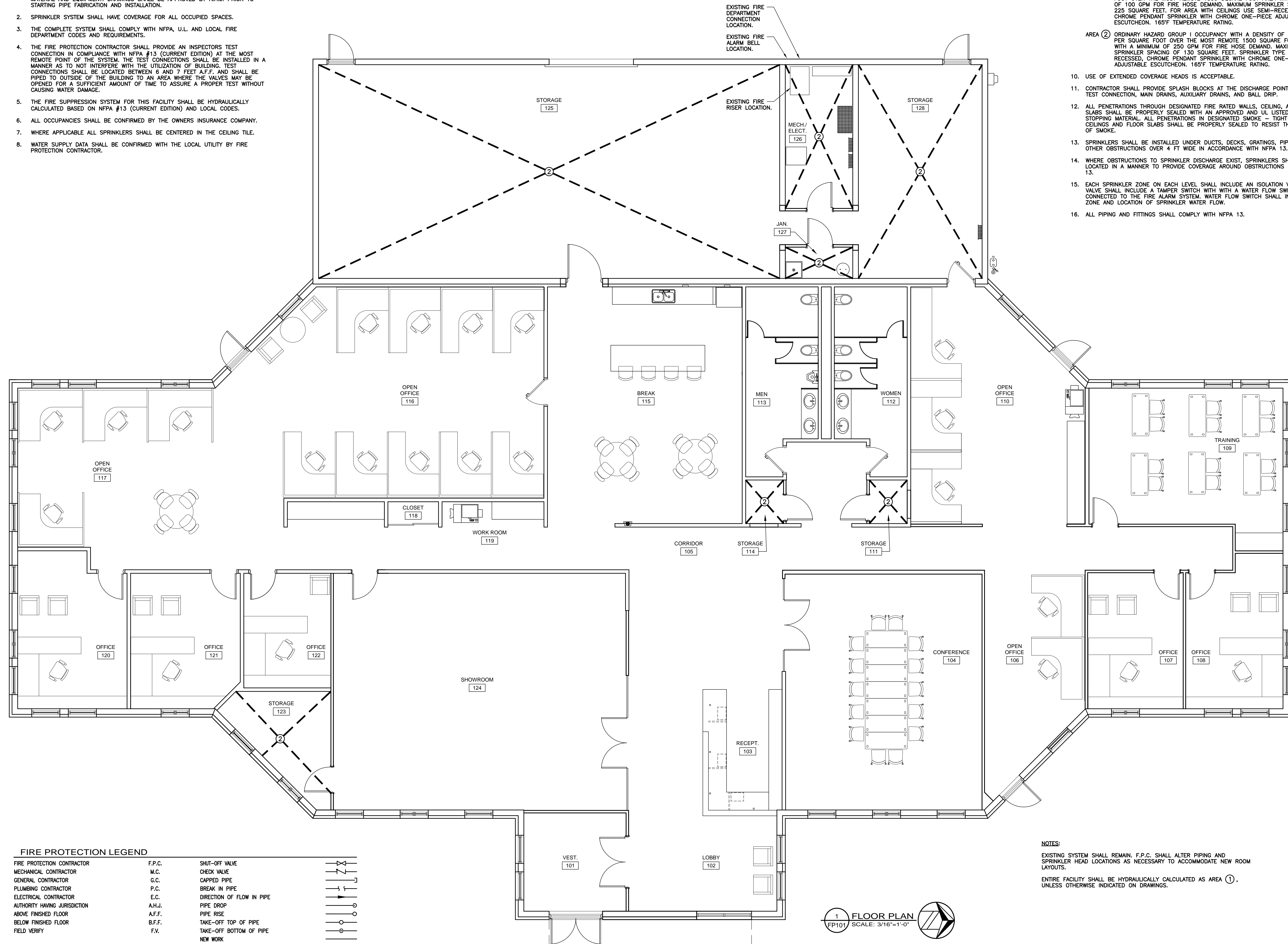
EXISTING PRIMARY ELECTRICAL SERVICE



ONE-LINE DIAGRAM SCALE: N.T.S.

F.P.C. GENERAL NOTES:

- THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION OF DRAWINGS WHICH SHALL BE USED FOR OBTAINING THE REQUIRED APPROVALS. FOR COORDINATION WITH OTHER TRADES AND FOR FABRICATION/INSTALLATION OF MATERIAL AND EQUIPMENT, DRAWINGS SHALL BE APPROVED BY A.H.J. PRIOR TO STARTING PIPE FABRICATION AND INSTALLATION.
- SPRINKLER SYSTEM SHALL HAVE COVERAGE FOR ALL OCCUPIED SPACES.
- THE COMPLETE SYSTEM SHALL COMPLY WITH NFPA, U.L. AND LOCAL FIRE DEPARTMENT CODES AND REQUIREMENTS.
- THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE AN INSPECTOR'S TEST CONNECTION IN COMPLIANCE WITH NFPA #13 (CURRENT EDITION) AT THE MOST REMOTE POINT OF THE SYSTEM. THE TEST CONNECTIONS SHALL BE INSTALLED IN A MANNER AS TO NOT INTERFERE WITH THE UTILIZATION OF BUILDING. TEST CONNECTIONS SHALL BE LOCATED BETWEEN 6 AND 7 FEET A.F.F. AND SHALL BE PIPED TO OUTSIDE OF THE BUILDING TO AN AREA WHERE THE VALVES MAY BE OPENED FOR A SUFFICIENT AMOUNT OF TIME TO ASSURE A PROPER TEST WITHOUT CAUSING WATER DAMAGE.
- THE FIRE SUPPRESSION SYSTEM FOR THIS FACILITY SHALL BE HYDRAULICALLY CALCULATED BASED ON NFPA #13 (CURRENT EDITION) AND LOCAL CODES.
- ALL OCCUPANCIES SHALL BE CONFIRMED BY THE OWNERS INSURANCE COMPANY.
- WHERE APPLICABLE ALL SPRINKLERS SHALL BE CENTERED IN THE CEILING TILE.
- WATER SUPPLY DATA SHALL BE CONFIRMED WITH THE LOCAL UTILITY BY FIRE PROTECTION CONTRACTOR.



FIRE PROTECTION LEGEND

FIRE PROTECTION CONTRACTOR	F.P.C.	SHUT-OFF VALVE	
MECHANICAL CONTRACTOR	M.C.	CHECK VALVE	
GENERAL CONTRACTOR	G.C.	CAPPED PIPE	
PLUMBING CONTRACTOR	P.C.	BREAK IN PIPE	
ELECTRICAL CONTRACTOR	E.C.	DIRECTION OF FLOW IN PIPE	
AUTHORITY HAVING JURISDICTION	A.H.J.	PIPE DROP	
ABOVE FINISHED FLOOR	A.F.F.	PIPE RISE	
BELOW FINISHED FLOOR	B.F.F.	TAKE-OFF TOP OF PIPE	
FIELD VERIFY	F.V.	TAKE-OFF BOTTOM OF PIPE	
		NEW WORK	

F.P.C. GENERAL NOTES: (CONTINUED)

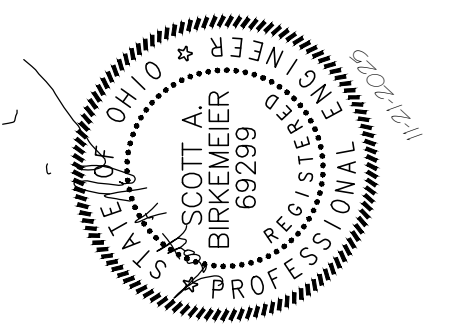
- HYDRAULIC CALCULATION SHALL BE BASED ON FOLLOWING DESIGN CRITERIA:
 - AREA ① LIGHT HAZARD OCCUPANCY WITH A DENSITY OF 0.10 GPM PER SQUARE FOOT OVER THE MOST REMOTE 1500 SQUARE FOOT AREA WITH A MINIMUM OF 100 GPM FOR FIRE HOSE DEMAND. MAXIMUM SPRINKLER SPACING OF 225 SQUARE FEET. FOR AREA WITH CEILINGS USE SEMI-RECESSED, CHROME PENDANT SPRINKLER WITH CHROME ONE-PIECE ADJUSTABLE ESCUTCHEON, 165°F TEMPERATURE RATING.
 - AREA ② ORDINARY HAZARD GROUP 1 OCCUPANCY WITH A DENSITY OF 0.15 GPM PER SQUARE FOOT OVER THE MOST REMOTE 1500 SQUARE FOOT AREA WITH A MINIMUM OF 250 GPM FOR FIRE HOSE DEMAND. MAXIMUM SPRINKLER SPACING OF 130 SQUARE FEET. SPRINKLER TYPE SHALL BE RECESSED, CHROME PENDANT SPRINKLER WITH CHROME ONE-PIECE ADJUSTABLE ESCUTCHEON, 165°F TEMPERATURE RATING.
- USE OF EXTENDED COVERAGE HEADS IS ACCEPTABLE.
- CONTRACTOR SHALL PROVIDE SPLASH BLOCKS AT THE DISCHARGE POINT OF THE TEST CONNECTION, MAIN DRAINS, AUXILIARY DRAINS, AND BALL DRIP.
- ALL PENETRATIONS THROUGH DESIGNATED FIRE RATED WALLS, CEILING, AND FLOOR SLABS SHALL BE PROPERLY SEALED WITH AN APPROVED AND UL LISTED FIRE STOPPING MATERIAL. ALL PENETRATIONS IN DESIGNATED SMOKE - TIGHT WALLS, CEILINGS AND FLOOR SLABS SHALL BE PROPERLY SEALED TO RESIST THE PASSAGE OF SMOKE.
- SPRINKLERS SHALL BE INSTALLED UNDER DUCTS, DECKS, GRATINGS, PIPING AND OTHER OBSTRUCTIONS OVER 4 FT WIDE IN ACCORDANCE WITH NFPA 13.
- WHERE OBSTRUCTIONS TO SPRINKLER DISCHARGE EXIST, SPRINKLERS SHALL BE LOCATED IN A MANNER TO PROVIDE COVERAGE AROUND OBSTRUCTIONS PER NFPA 13.
- EACH SPRINKLER ZONE ON EACH LEVEL SHALL INCLUDE AN ISOLATION VALVE. EACH VALVE SHALL INCLUDE A TAMPER SWITCH WITH A WATER FLOW SWITCH CONNECTED TO THE FIRE ALARM SYSTEM. WATER FLOW SWITCH SHALL INDICATE ZONE AND LOCATION OF SPRINKLER WATER FLOW.
- ALL PIPING AND FITTINGS SHALL COMPLY WITH NFPA 13.

NOTES:

EXISTING SYSTEM SHALL REMAIN. F.P.C. SHALL ALTER PIPING AND SPRINKLER HEAD LOCATIONS AS NECESSARY TO ACCOMMODATE NEW ROOM LAYOUTS.

ENTIRE FACILITY SHALL BE HYDRAULICALLY CALCULATED AS AREA ①, UNLESS OTHERWISE INDICATED ON DRAWINGS.

1 FLOOR PLAN
FP101 SCALE: 3/16"=1'-0"



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FIRE PROTECTION FLOOR PLAN

ISSUED DATE
01-09-24 PERMITS

DRAWN BY: SAB

DATE: 08-23

PLOT SCALE: 1:1

JOB NO. 45-2902-23

SHEET
FP101

DIVISION 21 - FIRE PROTECTION SPECIFICATIONS

1. SCOPE OF WORK: WORK COVERED BY THIS SPECIFICATION AND DESIGN DRAWINGS SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR AND REASONABLY INCIDENTAL TO COMPLETE THE INSTALLATION OF THE FIRE SUPPRESSION SYSTEMS AS INDICATED IN CONTRACT DOCUMENTS. REFERENCE TO CONTRACTOR OR FIRE PROTECTION CONTRACTOR ON ALL DRAWINGS AND WITHIN THIS SPECIFICATION COVERS WORK FOR FIRE PROTECTION CONTRACTORS AND THEIR SUBCONTRACTORS.

2. PERMITS AND INSPECTIONS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL NECESSARY PERMITS. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ANY INSPECTIONS, TAKES AND INSURANCE REQUIRED BY A.H.J. FIRE PROTECTION CONTRACTOR SHALL PROVIDE ALL REQUIRED DRAWINGS, CALCULATIONS, AND PRODUCT DATA NECESSARY TO OBTAIN FINAL APPROVAL BY AUTHORITY HAVING JURISDICTION. ALL DRAWINGS AND DOCUMENTATION SHALL BE PREPARED BY FIRE PROTECTION CONTRACTOR WITH THE ARCHITECT/ENGINEER DESIGNER AND SHALL BE SUBMITTED IN HARD COPY AND ELECTRONIC FORMAT TO THE ARCHITECT FOR SUBMISSION TO THE AUTHORITY HAVING JURISDICTION FOR STATE OF OHIO PLAN APPROVAL.

3. ORDINANCES AND CODES: ALL WORK SHALL BE INSTALLED TO CONFORM WITH ALL FEDERAL, STATE, LOCAL CODES AND ORDINANCES, AND INDUSTRY STANDARDS INCLUDING, BUT NOT LIMITED TO NFPA, OBC 2017, OPC 2017, OMC 2017, ASTM, ASME, ANSI, UL, AND NEC.

4. CONTRACT DRAWINGS: IN GENERAL, DRAWINGS ARE SCHEMATIC IN NATURE AND ARE INTENDED AS A GUIDE FOR THE CONTRACTOR. THE CONTRACTOR'S WORK SHALL CONFORM TO THE INFORMATION CONTAINED IN THIS SPECIFICATION AND/OR AS INDICATED IN THE LATEST REVISION OF THE DRAWINGS REFERRED TO HEREIN. THE CONTRACTOR SHALL CONSULT WITH THE ARCHITECT/ENGINEER REGARDING ALL QUESTIONS PRIOR TO PROCEEDING WITH FABRICATION OF THE WORK IN QUESTION.

5. VERIFICATION: BEFORE RUNNING ANY PIPING, ETC., WITHIN THE BUILDING, THE CONTRACTOR SHALL ASSURE HIMSELF THAT THEY CAN BE INSTALLED AS COMPLETED WITHOUT TRAPPING OR INTERFERING WITH COLUMNS, BEAMS, PIPING, FIXTURES, ETC. ANY NECESSARY MAJOR DEVIATION SHALL BE REFERRED TO THE ARCHITECT/ENGINEER FOR ADJUSTMENT BEFORE LINES ARE RUN, AT NO INCREASE IN CONTRACT PRICE.

6. RECORD DRAWINGS: THE CONTRACTOR SHALL NOTE CHANGES FROM CONTRACT DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL NEATLY AND CORRECTLY ENTER IN COLORED PENCIL ANY DEVIATIONS ON DRAWINGS AFFECTED AND SHALL KEEP DRAWINGS AVAILABLE FOR INSPECTION. AN EXTRA SET OF DRAWINGS SHALL BE FURNISHED BY F.P.C. FOR THIS PURPOSE. THE CONTRACTOR SHALL GIVE THE DRAWINGS TO THE ARCHITECT AT PROJECT COMPLETION AND LABEL THEM "AS BUILT DRAWINGS - FIRE PROTECTION"

7. SITE VISITATION: THE CONTRACTOR SHALL VISIT THE SITE (AND/OR BUILDING) AND EXAMINE THE AREA OF WORK AND COMPARE IT WITH DRAWINGS AND SPECIFICATIONS, AND BE SATISFIED AS TO CONDITION OF PREMISES, SUCH AS OBSTRUCTIONS, ACTUAL LEVELS, AND OTHER NECESSARY REQUIREMENTS FOR CARRYING OUT THE WORK. ALL BIDDERS SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT/ENGINEER PRIOR TO SUBMITTING THEIR BID OR PROPOSAL. FAILURE TO REPORT SUCH DISCREPANCIES SHALL BE DEEMED ACCEPTANCE OF EXISTING CONDITIONS. NO ADDITIONAL COMPENSATION WILL BE GIVEN AFTER THE BIDS OR PROPOSALS HAVE BEEN SELECTED.

8. SUBMITTALS: SUBMIT TO THE ARCHITECT/ENGINEER FOR REVIEW FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH INFORMATION GIVEN AND THE DESIGN CONCEPT EXPRESSED IN THE CONTRACT DOCUMENTS, PRODUCT DATA AND SHOP DRAWINGS FOR ALL SCHEDULED EQUIPMENT. CLEARLY IDENTIFY ALL SUBMITTALS WITH NAME, SHOWN IN THE DRAWINGS. APPLY CONTRACTOR'S STAMP, SIGNED OR INITIALED CERTIFYING THAT REVIEW, APPROVAL, VERIFICATION OF PRODUCTS REQUIRED, FIELD DIMENSIONS, ADJACENT CONSTRUCTION WORK, AND COORDINATION OF INFORMATION IS IN ACCORDANCE WITH THE REQUIREMENTS OF THE WORK AND CONTRACT DOCUMENTS. IDENTIFY VARIATIONS FROM CONTRACT DOCUMENTS AND PRODUCT OR SYSTEM LIMITATIONS WHICH MAY BE DETRIMENTAL TO SUCCESSFUL PERFORMANCE OF THE COMPLETED WORK. DISTRIBUTE COPIES OF REVIEWED SUBMITTALS AS APPROPRIATE. INSTRUCT PARTIES TO PROMPTLY REPORT ANY INABILITY TO COMPLY WITH REQUIREMENTS.

9. PRODUCT SUBSTITUTION: MANUFACTURERS SPECIFIED IN THE EQUIPMENT SCHEDULES BY NAMING ONE OR MORE MANUFACTURERS ARE INCLUDED AS A BASIS OF DESIGN WITH A PROVISION FOR SUBSTITUTIONS.

10. PROTECTION: CONTRACTOR SHALL PROVIDE APPROVED PROTECTION FOR ALL WORK INCLUDED IN THIS CONTRACT AND BE RESPONSIBLE FOR DAMAGE OF ANY KIND TO FIXTURES, PIPING OR OTHER WORK. AT THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL REMOVE ALL PROTECTION AND REPLACE ALL DAMAGED WORK WITHOUT EXPENSE TO THE OWNER.

11. MANUFACTURER'S DIRECTIONS: MANUFACTURER'S DIRECTIONS SHALL BE FOLLOWED IN ALL CASES WHERE THE MANUFACTURER OF ARTICLES USED IN THIS CONTRACT FURNISH DIRECTIONS COVERING SPECIFIC POINTS FOR THE INSTALLATION, STARTUP, OPERATION OR MAINTENANCE OF THESE ARTICLES. DIRECTIONS IN CONFLICT WITH THE DRAWINGS OR THIS SPECIFICATION SHALL BE REFERRED TO THE ARCHITECT/ENGINEER FOR CLARIFICATION.

12. ICC COMPLIANCE: ALL FIXTURES, EQUIPMENT, CONTROLS AND DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF AMERICANS WITH DISABILITIES ACT (ADA), ICC A117.1, STATE BUILDING CODE, AND LOCAL CODES MAY APPLY.

13. WORKMANSHIP AND LAYOUT: ALL WORK SHALL BE DONE BY MECHANICS SKILLED IN THE PARTICULAR TRADE INVOLVED, UNDER RESPONSIBLE SUPERVISION, AND WITH THE BEST MODERN PRACTICES.

14. MATERIALS GENERAL: THE MANUFACTURERS REFERENCED THROUGHOUT THESE OUTLINE SPECIFICATION ARE INCLUDED AS A BASIS OF DESIGN. SUBMISSION OF ALTERNATE MANUFACTURERS OF SIMILAR EQUIPMENT IS SUBJECT TO ENGINEERS APPROVAL. UNITS OF EQUIPMENT, OTHER THAN THOSE LISTED AS THE BASIS OF DESIGN, MUST BE PROVEN TO BE PHYSICALLY ACCEPTABLE, IN ADDITION TO MEETING ALL PERFORMANCE AND QUALITY SPECIFICATIONS. LIABILITY OF NON-COMFORMANCE SHALL LIE ON CONTRACTOR/SUBMITTER.

15. QUALITY REQUIREMENTS: ARTICLES, DEVICES, MATERIALS, FORMS OF CONSTRUCTION, FIXTURES, ETC. NAMED IN THE SPECIFICATIONS TO DEVELOP THE TYPE AND QUALITY REQUIRED, WHETHER OR NOT THE WORDS "OR EQUAL OR EQUIVALENT" ARE USED, SHALL BE KNOWN AS "STANDARDS" AND ALL PROPOSALS SHALL BE BASED ON THE SAME.

16. PROTECTION: CONTRACTOR SHALL PROVIDE APPROVED PROTECTION FOR ALL WORK INCLUDED IN THIS CONTRACT AND BE RESPONSIBLE FOR DAMAGE OF ANY KIND TO FIXTURES, PIPING OR OTHER WORK. AT THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL REMOVE ALL PROTECTION AND REPLACE ALL DAMAGED WORK WITHOUT EXPENSE TO THE OWNER.

17. MANUFACTURER'S DIRECTIONS: MANUFACTURER'S DIRECTIONS SHALL BE FOLLOWED IN ALL CASES WHERE THE MANUFACTURER OF ARTICLES USED IN THIS CONTRACT FURNISH DIRECTIONS COVERING SPECIFIC POINTS FOR THE INSTALLATION, STARTUP, OPERATION OR MAINTENANCE OF THESE ARTICLES. DIRECTIONS IN CONFLICT WITH THE DRAWINGS OR THIS SPECIFICATION SHALL BE REFERRED TO THE ARCHITECT/ENGINEER FOR CLARIFICATION.

18. GUARDS FOR ROTATING MACHINERY: FURNISH AND INSTALL GUARDS FOR ALL EXPOSED BELT DRIVES. GUARDS SHALL BE RIGID AND READILY REMOVABLE WITH OPENINGS FOR CHECKING EQUIPMENT AND MOTOR SPEEDS. GUARDS SHALL BE ATTACHED TO EQUIPMENT AND NOT TO FLOOR.

19. CUTTING AND PATCHING: ALL CUTTING AND PATCHING OF, OR REPAIR OF DAMAGE TO WORK IN PLACE OR IN EXISTING CONSTRUCTION SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER. REPAIRS SHALL BE APPROVED BY THE ARCHITECT/ENGINEER. FIRE PROTECTION CONTRACTOR WHOSE OPERATIONS REQUIRE CUTTING OF WORK IN PLACE OR EXISTING CONSTRUCTION, OR WHO CAUSES DAMAGE WHICH ENTAILS REPAIRS, SHALL MECHANICALLY TAMPED TO SECURE THE FOUNDATION REQUIRED. IN EVENT THAT SUCH CUTTING OR REPAIR, ALL PATCHING REQUIRED TO MATCH EXISTING ADJACENT CONSTRUCTION SHALL BE BY THE LEAD CONTRACTOR AT THE FIRE PROTECTION CONTRACTOR'S EXPENSE.

20. CLEAN-UP: CONTRACTOR SHALL FREQUENTLY CLEAN UP ALL REFUSE, RUBBISH, SCRAP MATERIALS AND DEBRIS CAUSED BY THE CONTRACTOR'S OPERATIONS TO THE END THAT AT ALL TIMES THE SITE SHALL PRESENT A NEAT, ORDERLY AND WORKMANLIKE APPEARANCE. CRATES AND CARTONS IN WHICH MATERIALS, EQUIPMENT OR FIXTURES ARE RECEIVED SHALL BE REMOVED DAILY.

21. TESTING AND ADJUSTMENT: ALL WORK INSTALLED UNDER THIS CONTRACT SHALL BE TESTED IN THE PRESENCE OF AND TO THE SATISFACTION OF THE INSPECTING AUTHORITY HAVING JURISDICTION AND THE ARCHITECT/ENGINEER.

22. LUBRICATION AND PACKING: ALL ROTATING AND RECIPROCATING EQUIPMENT REQUIRING LUBRICATION SHALL BE LUBRICATED WITH THE CORRECT GRADE, TYPE AND QUALITY OF LUBRICANT BEFORE BEING PLACED IN SERVICE.

23. ACCESS PANELS: WHERE VALVES OR OTHER SPECIALTIES ARE CONCEALED IN THE CONSTRUCTION OR BEHIND A WALL OR CEILING SURFACE, THE CONTRACTOR SHALL FURNISH AND INSTALL AN ACCESS PANEL OF ADEQUATE SIZE TO PERMIT ADJUSTMENT OR SERVICE OF CONCEALED DEVICE. PANELS SHALL BE OF A DESIGN SUITABLE FOR INSTALLATION IN THE MATERIAL FORMING THE FINISHED SURFACE IN WHICH EACH IS MOUNTED. APPROVAL OF THE ARCHITECT/ENGINEER IS REQUIRED OF ALL EXPOSED ACCESS PANELS IN FINISHED AREAS.

24. CORRELATION OF WORK AND INTERFERENCES: BEFORE INSTALLING ANY WORK, CONTRACTOR SHALL SEE THAT SUCH INSTALLATION WILL NOT INTERFERE WITH CLEARANCES REQUIRED FOR THE PROPER FINISHING OF ARCHITECTURAL WORK INCLUDING THE FINISHING OF SURFACES. IN GENERAL, ALL PIPES IN FINISHED AREAS SHALL BE INSTALLED AND CONCEALED IN WALLS, FURRED SPACES, PIPE CHASES OR ABOVE SUSPENDED CEILINGS. IF AN INTERFERENCE OCCURS, CONTRACTOR SHALL CONSULT WITH THE ARCHITECT/ENGINEER BEFORE INSTALLING THE PIPE.

25. HOISTS, RIGGING, SCAFFOLDING AND TRANSPORTATION: CONTRACTOR SHALL PROVIDE ALL REQUIRED SCAFFOLDING, CRACKING, STAGING, TACKLE, HOISTS AND SIMILAR DEVICES AND EQUIPMENT NECESSARY FOR PROPER INSTALLATION OF HIS WORK, SHALL REMOVE ALL TEMPORARY MATERIALS OF THIS NATURE WHEN NO LONGER REQUIRED, AND SHALL BE RESPONSIBLE FOR THE SAFE AND LAWFUL USE THEREOF.

26. PROVISIONS FOR LATER INSTALLATIONS: WHERE WORK CANNOT BE INSTALLED AS THE STRUCTURE IS BEING ERRECTED, CONTRACTOR FOR SUCH WORK SHALL CLEAR THE AREA FOR THE BUILDING-IN OF BOXES, SLEEVES, INSERTS, FIXTURES OR DEVICES AS NECESSARY TO PERMIT INSTALLATION OF THE OMITTED WORK DURING LATER PHASES OF CONSTRUCTION. CONTRACTOR SHALL ARRANGE FOR AND LAY OUT ANY CHASES, HOLES OR OTHER OPENINGS WHICH MUST BE PROVIDED IN MASONRY, CONCRETE OR OTHER WORK.

27. CONNECTIONS: CONTRACTOR SHALL COOPERATE FULLY WITH THE OWNER IN SCHEDULING AND MAKING CONNECTIONS INTO EXISTING SERVICE LINES SO AS TO CAUSE THE LEAST POSSIBLE INCONVENIENCE AND SHORTEST DELAY IN SERVICE INTERRUPTION.

28. REMOVALS AND DELOCATIONS: CONTRACTOR TO PERFORM ALL REMOVALS AND RELOCATIONS OF FIRE PROTECTION SYSTEMS AS INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS.

29. EXCAVATION AND BACKFILL: IF APPLICABLE, THE CONTRACTOR SHALL DO ALL EXCAVATING AND BACKFILLING IN CONNECTION WITH THIS CONTRACTOR'S WORK.

30. ELECTRICAL REQUIREMENTS FOR FIRE PROTECTION EQUIPMENT: F.P.C. SHALL FURNISH ALL SPECIAL CONTROL ITEMS AND MOTORS REQUIRED FOR THE OPERATION OF ALL EQUIPMENT PROVIDED UNDER THEIR SECTIONS OF THE WORK.

31. PIPES AND PIPE FITTINGS: A. GENERAL REQUIREMENTS FOR PIPING INSTALLATION

32. REMOVALS AND DELOCATIONS: CONTRACTOR TO PERFORM ALL REMOVALS AND RELOCATIONS OF FIRE PROTECTION SYSTEMS AS INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS.

33. GUARDS FOR ROTATING MACHINERY: FURNISH AND INSTALL GUARDS FOR ALL EXPOSED BELT DRIVES. GUARDS SHALL BE RIGID AND READILY REMOVABLE WITH OPENINGS FOR CHECKING EQUIPMENT AND MOTOR SPEEDS. GUARDS SHALL BE ATTACHED TO EQUIPMENT AND NOT TO FLOOR.

34. GUARDS TO COMPLY WITH OSHA STANDARDS.

35. IF GUARDS COVER THE GREASE FITTINGS, PROVIDE EXTENDED GREASE TUBES TO PERMIT LUBRICATION OF EQUIPMENT.

36. PROVIDE GUARDS OVER EXPOSED DRIVES SUCH AS PUMP COUPLINGS.

37. ALL OTHER MATERIALS NOT CLAIMED BY THE OWNER OR REUSED IN THE NEW INSTALLATION SHALL BE REMOVED FROM THE SITE BY THE F.P.C.

38. EXCAVATING AND BACKFILL: IF APPLICABLE, THE CONTRACTOR SHALL DO ALL EXCAVATING AND BACKFILLING IN CONNECTION WITH THIS CONTRACTOR'S WORK.

39. PIPE TRENCHES SHALL BE CUT TO INSTRUMENT GRADE, HELD TO MINIMUM WIDTH TO ACCOMPLISH THE WORK, CUT OUT FOR PIPE HUBS AND FITTINGS TO OBTAIN A SOLID BED FOR ALL BURIED WORK. IN THE EVENT TRENCHES ARE CUT TOO DEEP, THEY SHALL BE FILLED WITH SAND TO CORRECT ELEVATION AND MATERIAL SHALL BE MECHANICALLY TAMPED TO SECURE THE FOUNDATION REQUIRED. IN EVENT THAT SUCH CUTTING OR REPAIR, ALL PATCHING REQUIRED TO MATCH EXISTING ADJACENT CONSTRUCTION SHALL BE BY THE LEAD CONTRACTOR AT THE FIRE PROTECTION CONTRACTOR'S EXPENSE.

40. NO STRUCTURAL MEMBERS SHALL BE CUT WITHOUT THE APPROVAL OF THE ARCHITECT/ENGINEER AND ANY SUCH CUTTING SHALL BE DONE IN A MANNER DIRECTED BY THE ARCHITECT/ENGINEER.

41. CLEAN-UP: CONTRACTOR SHALL FREQUENTLY CLEAN UP ALL REFUSE, RUBBISH, SCRAP MATERIALS AND DEBRIS CAUSED BY THE CONTRACTOR'S OPERATIONS TO THE END THAT AT ALL TIMES THE SITE SHALL PRESENT A NEAT, ORDERLY AND WORKMANLIKE APPEARANCE. CRATES AND CARTONS IN WHICH MATERIALS, EQUIPMENT OR FIXTURES ARE RECEIVED SHALL BE REMOVED DAILY.

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48. CONNECTIONS: CONTRACTOR SHALL COOPERATE FULLY WITH THE OWNER IN SCHEDULING AND MAKING CONNECTIONS INTO EXISTING SERVICE LINES SO AS TO CAUSE THE LEAST POSSIBLE INCONVENIENCE AND SHORTEST DELAY IN SERVICE INTERRUPTION.

49. REMOVALS AND DELOCATIONS: CONTRACTOR TO PERFORM ALL REMOVALS AND RELOCATIONS OF FIRE PROTECTION SYSTEMS AS INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS.

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62. CORRELATION OF WORK AND INTERFERENCES: BEFORE INSTALLING ANY WORK, CONTRACTOR SHALL SEE THAT SUCH INSTALLATION WILL NOT INTERFERE WITH CLEARANCES REQUIRED FOR THE PROPER FINISHING OF ARCHITECTURAL WORK INCLUDING THE FINISHING OF SURFACES. IN GENERAL, ALL PIPES IN FINISHED AREAS SHALL BE INSTALLED AND CONCEALED IN WALLS, FURRED SPACES, PIPE CHASES OR ABOVE SUSPENDED CEILINGS. IF AN INTERFERENCE OCCURS, CONTRACTOR SHALL CONSULT WITH THE ARCHITECT/ENGINEER BEFORE INSTALLING THE PIPE.

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ISSUED DATE 01-09-24 PERMITS

DRAWN BY: SAB DATE: 08-23

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C. SLEEVES

SLEEVES SHALL BE INSTALLED BY THE CONTRACTOR WHEREVER PIPES PASS THROUGH WALLS, SLABS, FLOORS OR CEILINGS. NO PIPES SHALL PASS THROUGH BEAMS OR BE EMBEDDED IN CONCRETE. SLEEVES IN CONCRETE SHALL BE STANDARD WEIGHT STEEL PIPE OR PURCHASED UNITS AS SPECIFIED BELOW. TWENTY-SIX GAUGE GALVANIZED STEEL SLEEVES ARE ACCEPTABLE IN WOOD, PLASTER OR DRYWALL PARTITIONS. ALL SLEEVES SHALL BE SAWED OR MACHINE CUT (NO FLAME CUTTING) AND FLUSH WITH FINISHED SURFACES EXCEPT FOR MECHANICAL EQUIPMENT AREAS WHICH SHALL EXTEND 2" ABOVE FINISHED FLOOR AND BE OF GALVANIZED STEEL.

CENTER PIPE IN SLEEVES WITH SPACERS.

IF POSSIBLE, IN NEW CONCRETE WORK, SLEEVES SHALL BE SET INTO POSITION BEFORE CONCRETE IS POURED. WHERE PIPE OPENINGS ARE REQUIRED IN CONCRETE AFTER THE CONCRETE HAS BEEN POURED, THIS CONTRACTOR SHALL CORE DRILL SAME AND ELIMINATE THE PIPE SLEEVE.

WHERE PIPES PASS THROUGH EXTERIOR CONCRETE WALLS, SET SCHEDULE 40 STEEL PIPE OR SPECIAL MANUFACTURED CASTINGS OR SLEEVES 1-1/2" LARGER THAN O.D. OF PIPE. CAULK BOTH SIDES WITH OAKUM AND LEAD WOOL. COAT WITH BITUMINOUS PAINT AND OTHERWISE ADEQUATELY WATERPROOF OPENING AROUND PIPE. A CASING SEAL SYSTEM AS MANUFACTURED BY THUNDERLINE CORPORATION UNDER THE TRADE NAME "LINK-SEAL" MAY BE USED INSTEAD OF OAKUM AND CAULKING.

SLEEVES SHALL BE INSTALLED BY THE CONTRACTOR WHEREVER EXISTING PIPES PASS THROUGH NEW WALLS ERECTED FOR THIS PROJECT. TWENTY-SIX GAUGE GALVANIZED STEEL SPLIT RING TYPE SLEEVES ARE ACCEPTABLE. EXISTING PIPING SHOWN ON THE DRAWINGS IS TAKEN FROM RECORD DRAWINGS AND/OR FIELD OBSERVATION AND ARE DEEMED RELIABLE ONLY INsofar AS GENERAL LAYOUT IS CONCERNED. THE RESPONSIBILITY FOR CHECKING IN PLACE ITEMS WILL BE THE CONTRACTOR'S.

OPENINGS AROUND PIPES OR IN SLEEVES FOR PIPES PASSING THROUGH FLOOR SLABS, FIRE-RATED WALLS, SMOKE BARRIERS, OR FIRE-RATED CEILINGS MUST BE SEALED WITH A NON-COMBUSTIBLE MATERIAL. SEAL AT BOTH SIDES OF ANY CAVITY WALL. INSULATION SHALL NOT EXTEND THROUGH SLEEVE. FILL SLEEVE OPENING WITH DOW CORNING 3-654B RTV SILICONE FOAM, 3M FIRE BARRIER, G.E. RTV OR FLAME STOP, INC. PRODUCT SHALL INTUMESCE (EXPAND) WHEN SUBJECTED TO HEAT. WHEN USED FOR OPENINGS AROUND PVC OR SIMILAR PIPE MATERIAL, PROVIDE SUFFICIENT THICKNESS OF MATERIAL AROUND PIPE TO FILL VOID COMPLETELY IF THE PIPE IS CONSUMED BY THE HEAT. AN EXTERIOR METAL HOLDING COLLAR AND CLAMP MAY BE REQUIRED FOR THIS APPLICATION. DEPTH OF FILL MATERIAL SHALL PROVIDE SAME FIRE RATING AS FLOOR OR WALL PENETRATED. FIBERGLASS IS NOT ACCEPTABLE, EXCEPT AS A BACKING FOR THE ABOVE MATERIALS. PREPACKED SLEEVES SUCH AS PROSET "FIRESSTOP PENETRATORS" AS INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS ARE ACCEPTABLE.

ALL METAL PIPING PASSING THROUGH OR ADJACENT TO WOOD THAT HAS BEEN TREATED WITH FIRE RETARDANT CHEMICALS SHALL BE SLEEVED WITH SCHEDULE 40 PVC PIPING ONE SIZE LARGER THAN A BARE METAL PIPE OR ONE SIZE LARGER THAN AN INSULATED PIPE. ALTERNATE METHODS OF PROTECTING THE PIPING MAY BE USED AT THE CONTRACTOR'S OPTION.

D. ESCUTCHEON PLATES

CHROME-PLATED ESCUTCHEON PLATES SHALL BE USED WHERE PIPING ENTERS FINISHED AREAS AND SHALL FIT NEATLY TO PIPE AND SURFACE. THE PLATES MAY BE BLACK IRON IN UNFINISHED AREAS.

OMIT PLATES IN CONCEALED PIPING SPACES.

32. SUPPORTS AND ANCHORS

CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS STEEL AND HARDWARE AS REQUIRED TO SUPPORT, HANG AND SECURE ALL EQUIPMENT, PIPES, ETC. AS FURNISHED BY THEM, UNLESS SUCH MATERIALS ARE SPECIFICALLY CALLED OUT TO BE PROVIDED BY OTHER CONTRACTORS.

33. PIPE HANGERS AND SUPPORTS

CONTRACTOR SHALL FURNISH AND INSTALL ALL ADJUSTABLE HANGERS, SPECIAL PIPE SUPPORTS, SPRING HANGERS, ANCHORS, CLAMPS, RODS, AND APPURTENANCES AS REQUIRED TO SECURELY AND PROPERLY HANG OR SUPPORT THE PIPING SYSTEMS. HANGERS AND SUPPORTS SHALL BE EQUIVALENT TO THE GRINNELL MODELS SPECIFIED.

ALL PIPING SYSTEMS SHALL HAVE ANCHORAGE, SWAY BRACES, GUIDES AND SUPPORTS SATISFACTORY TO THE ARCHITECT AND SHALL BE FABRICATED IN ACCORDANCE WITH ANSI CODE B31.9, "BUILDING SERVICES PIPING", LATEST ISSUE, AND MUST BE INSTALLED WITH DUE REGARD FOR GENERAL REQUIREMENTS.

WHERE HANGERS ARE SUPPORTED FROM THE BUILDING STRUCTURAL STEEL, THEY SHALL BE ATTACHED TO STRUCTURAL MEMBERS BY BEAM CLAMPS BEARING ON BOTH SIDES. DO NOT WELD HANGER RODS TO STRUCTURAL STEEL. WHEN ATTACHING TO BAR JOISTS, ATTACH AT THE PANEL POINTS ONLY. ATTACH TO CONCRETE DECKING USING EXPANSION BOLTS OR CONCRETE ANCHORS.

HANGERS NOT OTHERWISE NOTED OR SPECIFIED SHALL BE ADJUSTABLE WROUGHT IRON CLEVIS TYPE, GRINNELL NO. 260, FOR INSULATED AND NON-INSULATED STEEL PIPE AND INSULATED COPPER TUBING. BARE COPPER TUBING SHALL BE SUPPORTED WITH COPPER-PLATED PLASTIC-COATED HANGERS, GRINNELL FIG. CT-99C. SUITABLE TRAPEZE TYPE HANGERS MAY BE USED WHERE SEVERAL LINES ARE RUNNING PARALLEL.

PIPING SHALL BE SUPPORTED WITH HANGERS SPACED IN ACCORDANCE WITH SCHEDULE ON SHEET M602. EACH SECTION OF PIPE SHALL HAVE AT LEAST ONE HANGER. VERTICAL LINES SHALL BE SUPPORTED BY PIPE CLAMP TYPE SUPPORTS DESIGNED FOR THIS PURPOSE AT EACH FLOOR LEVEL. ON PLASTIC PIPING WHICH IS INSULATED, REDUCE SPACING TO 70% OF DISTANCES LISTED.

HANGER ROD SIZE SHALL BE IN ACCORDANCE WITH SCHEDULE ON SHEET FP102. PIPING, ETC. SHALL BE INDEPENDENTLY SUPPORTED FROM THE BUILDING STRUCTURE AND SHALL NOT BE SUPPORTED FROM OTHER DUCTS, PIPES, ETC. WHERE INTERFERENCES DO OCCUR, PROVIDE TRAPEZE TYPE HANGERS OR SUPPORTS.

34. VALVES:

GATE VALVE 2" AND SMALLER - OS&Y TYPE SCREWED, BRONZE BODY, BRONZE TRIM AND CAST IRON HAND WHEEL, KENNEDY NO. 66 OR APPROVED EQUAL BY FAIRBANKS, NIBCO, MUELLER, STOCKHAM, JENKINS AND WALWORTH.

GATE VALVE 2-1/2" AND LARGER - OS&Y TYPE FLANGED, IRON BODY, BRONZE TRIM AND CAST IRON HAND WHEEL, KENNEDY NO. 68 OR APPROVED EQUAL BY FAIRBANKS, NIBCO, MUELLER, STOCKHAM, JENKINS AND WALWORTH.

BUTTERFLY VALVE 2 1/2" AND LARGER - UL LISTED, FM APPROVED, CAST IRON, DUCTILE IRON, OR STEEL BODY, NICKEL CHROME PLATED DISC, STAINLESS STEEL SHAFT, EPDM SEAT, WAFER LUG, OR GROOVED END TYPE BODY, GEAR TYPE ACTUATOR WITH INDICATOR, HAND WHEEL AND TAPPING FOR MONITORING SWITCH, KENNEDY NO. 82 M/UL, 911 OR APPROVED EQUAL BY MUELLER, NIBCO, KEYSTONE, VICTAULIC OR GRINNELL.

CHECK VALVE 2-1/2" AND LARGER - SWING TYPE, IRON BODY, BRONZE MOUNTED, BRONZE FACED DISC, DRAIN PLUG AND TOP REMOVABLE COVER, KENNEDY NO. 126 OR APPROVED EQUAL BY NIBCO, CRANE, STOCKHAM, JENKINS, WALWORTH, MUELLER, GRINNELL, AUTOMATIC OR VIKING. OR GROOVED TYP EQUAL TO VICTAULIC STYLE 717.

WAFER CHECK VALVE 4", 6" AND 8" - GALVANIZED CAST IRON BODY WITH BRONZE CLAPPER, O-RING, PLATE AND LIFTING LUG. PLATE TO INDICATE DIRECTION OF FLOW. GRINNELL F-512 OR EQUAL BY AUTOMATIC, KENNEDY, CENTRAL OR VIKING.

DETECTOR CHECK VALVE 4", 6" AND 8" - CAST IRON BODY AND COVER AND ALL INTERNAL PARTS ARE TO BE BRONZE, GRINNELL F-1369 OR EQUAL BY HERSEY PRODUCTS OR VIKING. METER TO BE HERSEY PRODUCTS MODEL FM.

REDUCED PRESSURE ZONE ASSEMBLY 2 1/2" TO 10" - TWO INDEPENDENTLY OPERATED LINK CHECK MODULES, A DIFFERENTIAL PRESSURE RELIEF VALVE LOCATED BETWEEN AND BELOW TWO CHECK VALVES, TWO DRIP TIGHT SHUT-OFF VALVES, AND REQUIRED TEST COCKS. LINK CHECK MODULES AND RELIEF VALVE SHALL BE LOCATED WITHIN ACCESSIBLE 304 STAINLESS STEEL SLEEVE. LINK CHECKS SHALL HAVE REVERSIBLE ELASTOMER DISCS AND IN OPERATION DRIP TIGHT CLOSURE AGAINST REVERSE FLOW OF LIQUID CAUSED BY BACK PRESSURE OR BACKSIPHONAGE. ASSEMBLY SHALL BE EQUAL TO AMES MODEL C400 OR APPROVED EQUAL BY HERSEY, CLA-VAL COMPANY OR FEBCO.

FOR A PARTICULAR TYPE OF VALVE, ALL VALVES SHALL BE OF THE SAME MANUFACTURER.

THIS CONTRACTOR SHALL FURNISH ALL VALVES AS INDICATED ON THE DRAWINGS AND AS REQUIRED FOR THE PROPER CONTROL AT VARIOUS APPARATUS SO THAT ANY APPARATUS MAY BE REMOVED FOR REPAIR WITHOUT INTERFERENCE TO THE REMAINDER OF THE BUILDING.

35. SPRINKLER HEAD:

A. SPRINKLER HEAD SHALL BE UPRIGHT, SIDEWALL OR PENDANT TYPE, OF APPROVED MAKE AND OF CORRECT TEMPERATURE RATING FOR THE CONDITION AT THE INSTALLED LOCATION. SPACING OF SPRINKLER HEADS SHALL BE IN ACCORDANCE WITH REGULATIONS OF THE NFPA, IRI, FM LOCAL FIRE DEPARTMENT, AND STATE OF OHIO FOR THE TYPE OF OCCUPANCY SPECIFIED OR REQUIRED. HEAD SHALL BE AS MANUFACTURED BY GRINNELL, GEM, VIKING OR AUTOMATIC. SYSTEM HEAD IN FINISHED AREA SHALL BE OF BEST QUALITY CHROME-PLATE AND SHALL BE CENTERED IN THE CEILING TILE WHERE APPLICABLE. ESCUTCHEON IS TO BE ONE PIECE.

B. FURNISH EXTRA SPRINKLERS OF EACH KIND USED ON THIS PROJECT WITH WRENCHES AND CABINETS LOCATED AS DIRECTED BY THE GENERAL CONTRACTOR AND AS REQUIRED BY NFPA 13.

C. INSTALL SPRINKLER DEFLECTOR OR HEAD GUARD WHERE REQUIRED, AS DEMANDED BY THE LOCAL CONDITION.

D. USE OF EXTENDED COVERAGE HEADS IS ACCEPTABLE.

36. ALARM CHECK VALVE:

A. EXISTING CHECK VALVE TO REMAIN.

37. RISER CHECK VALVE:

A. EXISTING CHECK VALVE TO REMAIN.

38. MONITOR SWITCH (ESV):

A. EXISTING MONITOR SWITCH TO REMAIN. VERIFY PROPER OPERATION.

39. WATER FLOW DETECTOR SWITCH (WFD):

A. EXISTING WATER FLOW DETECTOR SWITCH TO REMAIN. VERIFY PROPER OPERATION.

40. FIRE EXTINGUISHER

A. FIRE EXTINGUISHER TO BE UL LISTED, FACTORY MUTUAL APPROVED HEAVY DUTY STEEL CYLINDER, RED ENAMEL FINISH, WITH HOSE, NOZZLE AND EASY UPRIGHT SQUEEZE GRIP OPERATION. MULTIPURPOSE ABC TYPE, 10# 4A-60BC UNLESS NOTED OTHERWISE ON DRAWINGS.

41. VALVE BOX:

A. EXISTING VALVE BOX TO REMAIN.

42. ALARM HORN/STROBE

A. EXISTING ALARM HORN/STROBE TO REMOVED. SYSTEM TO BE TIED INTO EXISTING FIRE ALARM.

43. FIRE DEPARTMENT INLET

A. EXISTING TO REMAIN.

44. FINAL ACCEPTANCE

A. WHEN THE FIRE PROTECTION CONTRACTOR BELIEVES THAT THE FIRE SUPPRESSION SYSTEM IS SATISFACTORILY INSTALLED AND CAPABLE OF OPERATION AS INTENDED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT, AS PER THE GENERAL MECHANICAL REQUIREMENTS, FOR CONDUCTING A FINAL OBSERVATION OF THE INSTALLATION. AFTER CORRECTION OF ANY PUNCH LIST ITEMS, THE FIRE PROTECTION CONTRACTOR SHALL NOTIFY THE AUTHORITY HAVING JURISDICTION AND MAKE ARRANGEMENTS FOR FINAL TEST AND OBSERVATION OF THE INSTALLATION. FINAL ACCEPTANCE WILL BE CONTINGENT UPON THE OPERATION AND INSTALLATION PROVING SATISFACTORY TO THE ARCHITECT, OWNER'S INSURANCE UNDERWRITER, LOCAL BUILDING AND FIRE DEPARTMENT AND THE OWNER'S REPRESENTATIVE.

B. BEFORE FINAL ACCEPTANCE THE FIRE PROTECTION CONTRACTOR MUST FURNISH TO OWNER A CURRENT COPY OF NFPA STANDARD 25, ALONG WITH OPERATION/MAINTENANCE MANUALS, COPIES OF THE "CONTRACTOR'S MATERIAL AND TEST CERTIFICATES" AND SYSTEM WARRANTY.

45. FIRE PROTECTION CONTRACTOR

A. THE FIRE PROTECTION CONTRACTOR MUST BE CERTIFIED IN THE STATE OF OHIO TO DO FIRE PROTECTION WORK AND SHALL REGULARLY BE ENGAGED IN THE INSTALLATION OF FIRE SUPPRESSION SYSTEMS.

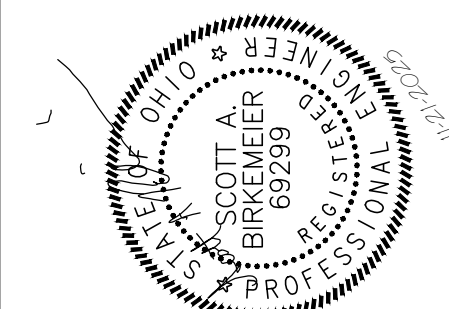
B. THEY SHALL EMPLOY STATE CERTIFIED "AUTOMATIC SPRINKLER SYSTEM DESIGNERS AND INSTALLERS" CERTIFIED FOR THE DESIGN AND INSTALLATION OF FIRE PROTECTION SYSTEMS.

46. FLUSHING AND TESTING

A. FURNISH AND INSTALL ALL NECESSARY TESTING LINES, FITTINGS, AND VALVES. THIS SHALL INCLUDE FITTINGS FOR CHLORINATION AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

B. ALL FIRE PROTECTON PIPING SHALL BE FLUSHED AND TESTED IN ACCORDANCE WITH NFPA, OHIO BUILDING CODE, AND LOCAL FIRE DEPARTMENT REQUIREMENTS.

C. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AT LEAST 48 HOURS IN ADVANCE OF ANY TEST.



TDG Technicon Design Group

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BUILDING RENOVATIONS
PERRY PROTECH
1270 FLAGSHIP DRIVE
PERRYSBURG, OH 43551

THE CONTENTS OF THIS DRAWING SHALL NOT BE USED OR REPRODUCED BY INDIVIDUALS, CORPORATIONS, OR OTHER ENTITIES FOR ANY PURPOSE OTHER THAN THE INTENDED USE FOR THIS PROJECT. IF THE DRAWING IS USED FOR ANY OTHER PURPOSE, THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMISSIONS FROM THE ARCHITECT/ENGINEER. THIS DRAWING IS THE PROPERTY OF TECHNICON DESIGN GROUP AND IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PRIOR WRITTEN CONSENT OF TECHNICON DESIGN GROUP, INC. STRICTLY PROHIBITED.

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DO NOT SCALE FROM DRAWINGS. THE ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY QUANTITIES OF MATERIALS AND LOCATIONS OF BUILDING COMPONENTS SCALED FROM THESE DRAWINGS.

FIRE PROTECTION SPECIFICATIONS

ISSUED DATE
01-09-24 PERMITS

DRAWN BY: SAB

DATE: 08-23

PLOT SCALE: 1:1

JOB NO. 45-2902-23

SHEET
FP902



Envelope Compliance Certificate

Project Information

Energy Code: 90.1 (2010) Standard
 Project Title: Perry Protech
 Location: Perrysburg, Ohio
 Climate Zone: 5a
 Project Type: Alteration

Construction Site:
 1270 Flagship Drive
 Perrysburg, OH 43551

Owner/Agent:
 Tony Hovest
 Technicon Design Group, Inc.
 1800 North Perry Street
 Suite 102
 Ottawa, OH 45875
 419-523-5323
 info@technicondesigngroup.com

Designer/Contractor:
 Gillian Stechschulte
 Technicon Design Group, Inc.
 1800 North Perry Street
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 Ottawa, OH 45875
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Building Area

Floor Area

1-Office (Office) : Nonresidential	10316
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Envelope Assemblies

Post-Alteration Assembly	R-Value		Proposed		Max. Allowed	
	Cavity	Cont.	U-Factor	SHGC	U-Factor	SHGC
Exterior Wall 1: Wood-Framed, 16" o.c., [Bldg. Use 1 - Office]	25.0	0.0	0.057	---	0.064	---

Envelope PASSES

Envelope Compliance Statement

Compliance Statement: The proposed envelope alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 90.1 (2010) Standard requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Scott A. Birkemeier, P.E. LEED AP

Name - Title


 Signature

01-08-24

Date



Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2010) Standard
 Project Title: Perry Protech
 Project Type: Alteration

Construction Site:
 1270 Flagship Drive
 Perrysburg, OH 43551

Owner/Agent:
 Tony Hovest
 Technicon Design Group, Inc.
 1800 North Perry Street
 Suite 102
 Ottawa, OH 45875
 419-523-5323
 info@technicondesigngroup.com

Designer/Contractor:
 Gillian Stechschulte
 Technicon Design Group, Inc.
 1800 North Perry Street
 Suite 102
 Ottawa, OH 45875
 419-523-5323
 info@technicondesigngroup.com

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B X C)
1-101 (Common Space Types:Lobby - General)	141	0.90	127
2-102 (Common Space Types:Lobby - General)	199	0.90	179
3-103 (Common Space Types:Office - Open Plan)	516	0.98	506
4-104 (Common Space Types:Conference/Meeting/Multipurpose)	653	1.23	803
5-105 (Common Space Types:Corridor/Transition <8 ft wide)	510	0.66	337
6-106 (Common Space Types:Office - Open Plan)	266	0.98	261
7-107 (Common Space Types:Office - Enclosed)	183	1.11	203
8-108 (Common Space Types:Office - Enclosed)	199	1.11	221
9-109 (Common Space Types:Classroom/Lecture/Training)	389	1.24	482
10-110 (Common Space Types:Office - Open Plan)	510	0.98	500
11-111 (Common Space Types:Storage)	23	0.63	14
12-112 (Common Space Types:Restrooms)	175	0.98	172
13-113 (Common Space Types:Restrooms)	175	0.98	172
14-114 (Common Space Types:Storage)	23	0.63	14
15-115 (Common Space Types:Lounge/Recreation)	648	0.73	473
16-116 (Common Space Types:Office - Open Plan)	765	0.98	750
17-117 (Common Space Types:Office - Open Plan)	689	0.98	675
18-118 (Common Space Types:Storage)	15	0.63	9
19-119 (Common Space Types:Corridor/Transition <8 ft wide)	225	0.66	148
20-120 (Common Space Types:Office - Enclosed)	230	1.11	255
21-121 (Common Space Types:Office - Enclosed)	204	1.11	226
22-122 (Common Space Types:Office - Enclosed)	140	1.11	155
23-123 (Common Space Types:Storage)	118	0.63	74
24-124 (Common Space Types:Sales Area)	971	1.68	1631
25-125 (Common Space Types:Storage)	1390	0.63	876
26-126 (Common Space Types:Electrical/Mechanical)	136	0.95	129
27-127 (Common Space Types:Electrical/Mechanical)	30	0.95	28
28-128 (Common Space Types:Storage)	372	0.63	234
29-129 (Common Space Types:Corridor/Transition <8 ft wide)	37	0.66	24
Total Allowed Watts =			9681

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
<u>101 (Common Space Types:Lobby - General 141 sq.ft.)</u> LED 1: Other:	1	4	14	56
<u>102 (Common Space Types:Lobby - General 199 sq.ft.)</u> LED 2: Other:	1	4	32	128
<u>103 (Common Space Types:Office - Open Plan 516 sq.ft.)</u> LED 3: Other: LED 4: Other: LED 5: Other:	1 1 1	4 3 2	49 32 24	196 96 48
<u>104 (Common Space Types:Conference/Meeting/Multipurpose 653 sq.ft.)</u> LED 6: Other:	1	6	50	300
<u>105 (Common Space Types:Corridor/Transition <8 ft wide 510 sq.ft.)</u> LED 7: Other:	1	10	49	490
<u>106 (Common Space Types:Office - Open Plan 266 sq.ft.)</u> LED 8: Other:	1	5	49	245
<u>107 (Common Space Types:Office - Enclosed 183 sq.ft.)</u> LED 9: Other:	1	4	49	196
<u>108 (Common Space Types:Office - Enclosed 199 sq.ft.)</u> LED 10: Other:	1	4	49	196
<u>109 (Common Space Types:Classroom/Lecture/Training 389 sq.ft.)</u> LED 11: Other: LED 12: Other:	1 1	6 1	49 14	294 14
<u>110 (Common Space Types:Office - Open Plan 510 sq.ft.)</u> LED 13: Other:	1	8	49	392
<u>111 (Common Space Types:Storage 23 sq.ft.)</u> LED 14: Other:	1	1	36	36
<u>112 (Common Space Types:Restrooms 175 sq.ft.)</u> LED 15: Other: LED 16: Other:	1 1	3 1	49 14	147 14
<u>113 (Common Space Types:Restrooms 175 sq.ft.)</u> LED 17: Other: LED 18: Other:	1 1	3 1	49 14	147 14
<u>114 (Common Space Types:Storage 23 sq.ft.)</u> LED 19: Other:	1	1	36	36
<u>115 (Common Space Types:Lounge/Recreation 648 sq.ft.)</u> LED 20: Other: LED 21: Other:	1 1	6 2	49 32	294 64
<u>116 (Common Space Types:Office - Open Plan 765 sq.ft.)</u> LED 22: Other:	1	9	49	441
<u>117 (Common Space Types:Office - Open Plan 689 sq.ft.)</u> LED 23: Other:	1	8	49	392
<u>118 (Common Space Types:Storage 15 sq.ft.)</u> LED 24: Other:	1	1	36	36
<u>119 (Common Space Types:Corridor/Transition <8 ft wide 225 sq.ft.)</u> LED 25: Other: LED 26: Other:	1 1	3 2	49 14	147 28
<u>120 (Common Space Types:Office - Enclosed 230 sq.ft.)</u> LED 27: Other:	1	4	49	196
<u>121 (Common Space Types:Office - Enclosed 204 sq.ft.)</u> LED 28: Other:	1	4	49	196
<u>122 (Common Space Types:Office - Enclosed 140 sq.ft.)</u>				

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
LED 29: Other: 123 (Common Space Types:Storage 118 sq.ft.)	1	4	49	196
LED 30: Other: 124 (Common Space Types:Sales Area 971 sq.ft.)	1	3	36	108
LED 31: Other: 125 (Common Space Types:Storage 1390 sq.ft.)	1	12	50	600
LED 32: Other: 126 (Common Space Types:Electrical/Mechanical 136 sq.ft.)	1	13	42	546
LED 33: Other: 127 (Common Space Types:Electrical/Mechanical 30 sq.ft.)	1	2	42	84
LED 34: Other: 128 (Common Space Types:Storage 372 sq.ft.)	1	1	42	42
LED 35: Other: 129 (Common Space Types:Corridor/Transition <8 ft wide 37 sq.ft.)	1	4	42	168
LED 36: Other:	1	1	36	36
Total Proposed Watts =				6619

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2010) Standard requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Scott A. Birkemeier, P.E. LEED AP
Name - Title


Signature

01-08-24
Date



Exterior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2010) Standard
 Project Title: Perry Protech
 Project Type: Alteration
 Exterior Lighting Zone: 2 (Light industrial area with limited nighttime use (LZ2))

Construction Site:
 1270 Flagship Drive
 Perrysburg, OH 43551

Owner/Agent:
 Tony Hovest
 Technicon Design Group, Inc.
 1800 North Perry Street
 Suite 102
 Ottawa, OH 45875
 419-523-5323
 info@technicondesigngroup.com

Designer/Contractor:
 Gillian Stechschulte
 Technicon Design Group, Inc.
 1800 North Perry Street
 Suite 102
 Ottawa, OH 45875
 419-523-5323
 info@technicondesigngroup.com

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Front Canopy (Entry canopy)	120 ft2	0.25	Yes	30
106 (Other door (not main entry))	3 ft of door	20	Yes	60
110 (Other door (not main entry))	3 ft of door	20	Yes	60
116A (Other door (not main entry))	3 ft of door	20	Yes	60
125B (Other door (not main entry))	3 ft of door	20	Yes	60
125C (Other door (not main entry))	3 ft of door	20	Yes	60
128B (Other door (not main entry))	3 ft of door	20	Yes	60

Total Tradable Watts (a) = 390

Total Allowed Watts = 390

Total Allowed Supplemental Watts (b) = 600

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.

(b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
<u>Front Canopy (Entry canopy 120 ft2): Tradable Wattage</u>				
LED 1: Other:	1	3	14	42
<u>106 (Other door (not main entry) 3 ft of door width): Tradable Wattage</u>				
LED 2: Other:	1	1	54	54
<u>110 (Other door (not main entry) 3 ft of door width): Tradable Wattage</u>				
LED 3: Other:	1	1	54	54
<u>116A (Other door (not main entry) 3 ft of door width): Tradable Wattage</u>				
LED 4: Other:	1	1	54	54
<u>125B (Other door (not main entry) 3 ft of door width): Tradable Wattage</u>				
LED 5: Other:	1	1	54	54
<u>125C (Other door (not main entry) 3 ft of door width): Tradable Wattage</u>				

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
LED 6: Other:	1	1	54	54
<u>128B (Other door (not main entry) 3 ft of door width): Tradable Wattage</u>				
LED 7: Other:	1	1	54	54
Total Tradable Proposed Watts =				366

Exterior Lighting PASSES

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 90.1 (2010) Standard requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Scott A. Birkemeier, P.E. LEED AP		01-08-24
Name - Title	Signature	Date



Mechanical Compliance Certificate

Project Information

Energy Code: 90.1 (2010) Standard
Project Title: Perry Protech
Location: Perrysburg, Ohio
Climate Zone: 5a
Project Type: Alteration

Construction Site:
1270 Flagship Drive
Perrysburg, OH 43551

Owner/Agent:
Tony Hovest
Technicon Design Group, Inc.
1800 North Perry Street
Suite 102
Ottawa, OH 45875
419-523-5323
info@technicondesigngroup.com

Designer/Contractor:
Gillian Stechschulte
Technicon Design Group, Inc.
1800 North Perry Street
Suite 102
Ottawa, OH 45875
419-523-5323
info@technicondesigngroup.com

Mechanical Systems List

Quantity System Type & Description

- 1 VRHP-1
VRF Condensing Unit, Air Cooled Heat Pump
Heating Mode: Capacity = 45 kBtu/h,
Proposed Efficiency = 3.80 COP, Required Efficiency = 3.30 COP
Cooling Mode: Capacity = 70 kBtu/h,
Proposed Efficiency = 13.70 EER, Required Efficiency: 11.00 EER + 12.3 IEER
Fan System: None

SYSTEM VERIFICATION REQUIRED.
- 1 RTU-1
Heating: 1 each - Central Furnace, Gas, Capacity = 150 kBtu/h
Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et (or 78% AFUE)
Cooling: 1 each - Single Package DX Unit, Capacity = 74 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 11.00 EER, Required Efficiency: 11.00 EER
Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP method) : Passes

Fans:
FAN 1 Supply, Constant Volume, 2400 CFM, 3.0 motor nameplate hp

SYSTEM VERIFICATION REQUIRED.
- 1 RTU-2
Heating: 1 each - Central Furnace, Gas, Capacity = 150 kBtu/h
Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et (or 78% AFUE)
Cooling: 1 each - Single Package DX Unit, Capacity = 60 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 13.00 SEER, Required Efficiency: 13.00 SEER
Fan System: FAN SYSTEM 2 -- Compliance (Motor nameplate HP method) : Passes

Fans:
FAN 2 Supply, Constant Volume, 2000 CFM, 1.5 motor nameplate hp

SYSTEM VERIFICATION REQUIRED.
- 1 RTU-3
Heating: 1 each - Central Furnace, Gas, Capacity = 240 kBtu/h
Proposed Efficiency = 81.00% Ec, Required Efficiency: 80.00 % Ec
Cooling: 1 each - Single Package DX Unit, Capacity = 119 kBtu/h, Air-Cooled Condenser, Air Economizer

Quantity System Type & Description

Proposed Efficiency = 11.00 EER, Required Efficiency: 11.00 EER
Fan System: FAN SYSTEM 3 -- Compliance (Motor nameplate HP method) : Passes

Fans:
FAN 3 Supply, Constant Volume, 4000 CFM, 3.0 motor nameplate hp

SYSTEM VERIFICATION REQUIRED.

- 1 RTU-4
Heating: 1 each - Central Furnace, Gas, Capacity = 150 kBtu/h
Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et (or 78% AFUE)
Cooling: 1 each - Single Package DX Unit, Capacity = 60 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 13.00 SEER, Required Efficiency: 13.00 SEER
Fan System: FAN SYSTEM 4 -- Compliance (Motor nameplate HP method) : Passes

Fans:
FAN 4 Supply, Constant Volume, 2000 CFM, 1.5 motor nameplate hp

SYSTEM VERIFICATION REQUIRED.

- 2 RP-1, RP-2
Heating: 1 each - Radiant Heater, Electric, Capacity = 3 kBtu/h
No minimum efficiency requirement applies
Fan System: None

SYSTEM VERIFICATION REQUIRED.

- 1 EWH-1
Electric Storage Water Heater, Capacity: 30 gallons w/ Circulation Pump
Proposed Efficiency: 0.90 SL, Btu/h (if > 12 kW), Required Efficiency: 211.70 SL, Btu/h (if > 12 kW)

SWH COMPLIANCE REQUIRED.

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 90.1 (2010) Standard requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Scott A. Birkemeier, P.E. LEED AP		01-08-24
Name - Title	Signature	Date



Inspection Checklist

Energy Code: 90.1 (2010) Standard

Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
4.2.2,5.4. 3.1.1,5.7 [PR1] ¹	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
4.2.2,6.4. 4.2.1,6.7. 2 [PR2] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
4.2.2,7.7. 1,10.4.2 [PR3] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's sizing guide.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
4.2.2,8.4. 1.1,8.4.1. 2,8.7 [PR6] ²	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
4.2.2,9.4. 4,9.7 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

1 High Impact (Tier 1)
 2 Medium Impact (Tier 2)
 3 Low Impact (Tier 3)

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
9.7 [PR8] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.7.2.4 [PR5] ¹	Detailed instructions for HVAC systems commissioning included on the plans or specifications for projects >=50,000 ft ² .	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Footing / Foundation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.5.3.3 [FO1] ²	Below-grade wall insulation R-value.	R-_____	R-_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.5.3.5 [FO3] ²	Slab edge insulation R-value.	R-_____ <input type="checkbox"/> Unheated <input type="checkbox"/> Heated	R-_____ <input type="checkbox"/> Unheated <input type="checkbox"/> Heated	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.5.3.5 [FO5] ²	Slab edge insulation depth/length.	_____ ft	_____ ft	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.8.1.7.3 [FO7] ¹	Insulation in contact with the ground has <=0.3% water absorption rate per ASTM C272.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.3.8 [FO9] ³	Freeze protection and snow/ice melting system sensors for future connection to controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.4.3.2 [FR1] ³	Factory-built fenestration and doors are labeled as meeting air leakage requirements.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
5.5.4.3a [FR8] ¹	Vertical fenestration U-Factor.	U-____	U-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.5.4.3b [FR9] ¹	Skylight fenestration U-Factor.	U-____	U-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.5.4.4.1 [FR10] ¹	Vertical fenestration SHGC value.	SHGC:____	SHGC:____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.5.4.4.2 [FR11] ¹	Skylight SHGC value.	SHGC:____	SHGC:____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.8.2.1 [FR12] ²	Fenestration products rated in accordance with NFRC.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
5.8.2.2 [FR13] ¹	Fenestration products are certified as to performance labels or certificates provided.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
5.8.2.3,5.3.6 [FR14] ²	U-factor of opaque doors associated with the building thermal envelope meets requirements.	U-____ <input type="checkbox"/> Swinging <input type="checkbox"/> Nonswinging	U-____ <input type="checkbox"/> Swinging <input type="checkbox"/> Nonswinging	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.4.3.1 [FR15] ¹	Continuous air barrier is wrapped, sealed, caulked, gasketed, and/or taped in an approved manner, except in semiheated spaces and in climate zones 1-6.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
7.4.4.1 [PL2] ³	Temperature controls installed on service water heating systems (<=120°F to maximum temperature for intended use).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
7.4.4.2 [PL3] ¹	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.1.4,6.4.1.5 [ME1] ²	HVAC equipment efficiency verified. Non-NAECA HVAC equipment labeled as meeting 90.1.	Efficiency:_____	Efficiency:_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.
6.4.3.4.1 [ME3] ³	Stair and elevator shaft vents have motorized dampers that automatically close.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
6.4.3.4.2, 6.4.3.4.3 [ME4] ³	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.3.4.5 [ME39] ³	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
6.4.3.4.4 [ME5] ³	Ventilation fans >0.75 hp have automatic controls to shut off fan when not required.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.3.9 [ME6] ¹	Demand control ventilation provided for spaces >500 ft ² and >40 people/1000 ft ² occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.3.10 [ME40] ²	Single zone HVAC systems with fan motors >=5 hp have variable airflow controls. Air conditioning equipment with a cooling capacity >=110,000 Btu/h has variable airflow controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. See the Mechanical Systems list for values.
6.4.3.10 [ME40] ²	Single zone HVAC systems with fan motors >=5 hp have variable airflow controls. Air conditioning equipment with a cooling capacity >=110,000 Btu/h has variable airflow controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. See the Mechanical Systems list for values.
6.4.3.10 [ME40] ²	Single zone HVAC systems with fan motors >=5 hp have variable airflow controls. Air conditioning equipment with a cooling capacity >=110,000 Btu/h has variable airflow controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. See the Mechanical Systems list for values.
6.4.3.10 [ME40] ²	Single zone HVAC systems with fan motors >=5 hp have variable airflow controls. Air conditioning equipment with a cooling capacity >=110,000 Btu/h has variable airflow controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. See the Mechanical Systems list for values.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.3.10 [ME40] ²	Single zone HVAC systems with fan motors ≥ 5 hp have variable airflow controls. Air conditioning equipment with a cooling capacity $\geq 110,000$ Btu/h has variable airflow controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. <i>See the Mechanical Systems list for values.</i>
6.4.3.10 [ME40] ²	Single zone HVAC systems with fan motors ≥ 5 hp have variable airflow controls. Air conditioning equipment with a cooling capacity $\geq 110,000$ Btu/h has variable airflow controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. <i>See the Mechanical Systems list for values.</i>
6.4.4.1.1 [ME7] ³	Insulation exposed to weather protected from damage. Insulation outside of the conditioned space and associated with cooling systems is vapor retardant.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.4.1.2 [ME8] ²	HVAC ducts and plenums insulated. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation Inspection.	R-_____	R-_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.4.1.3 [ME9] ²	HVAC piping insulation thickness. Where piping is installed in or under a slab, verification may need to occur during Foundation Inspection.	_____ in.	_____ in.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.4.1.4 [ME41] ³	Thermally ineffective panel surfaces of sensible heating panels have insulation $\geq R-3.5$.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.4.2.1 [ME10] ²	Ducts and plenums sealed based on static pressure and location.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.4.2.2 [ME11] ³	Ductwork operating >3 in. water column requires air leakage testing.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.4.2.2 [ME11] ³	Ductwork operating >3 in. water column requires air leakage testing.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.4.2.2 [ME11] ³	Ductwork operating >3 in. water column requires air leakage testing.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.4.2.2 [ME11] ³	Ductwork operating >3 in. water column requires air leakage testing.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.4.2.2 [ME11] ³	Ductwork operating >3 in. water column requires air leakage testing.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.4.2.2 [ME11] ³	Ductwork operating >3 in. water column requires air leakage testing.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.5.1.6.5. 1.1,6.5.1. 3 [ME12] ¹	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.5.1.6.5. 1.1,6.5.1. 3 [ME12] ¹	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.5.1.6.5. 1.1,6.5.1. 3 [ME12] ¹	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.5.1.6.5. 1.1,6.5.1. 3 [ME12] ¹	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
6.5.2.3 [ME19] ³	Dehumidification controls provided to prevent reheating, recooling, mixing of hot and cold airstreams or concurrent heating and cooling of the same airstream.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.5.3.3 [ME42] ³	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. <i>See the Mechanical Systems list for values.</i>
6.5.3.3 [ME42] ³	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. <i>See the Mechanical Systems list for values.</i>
6.5.3.3 [ME42] ³	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. <i>See the Mechanical Systems list for values.</i>
6.5.3.3 [ME42] ³	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. <i>See the Mechanical Systems list for values.</i>

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.5.3.3 [ME42] ³	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. <i>See the Mechanical Systems list for values.</i>
6.5.3.3 [ME42] ³	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. <i>See the Mechanical Systems list for values.</i>
6.5.4.1 [ME25] ³	HVAC pumping systems >10 hp designed for variable fluid flow.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.5.6.1 [ME56] ¹	Exhaust air energy recovery on systems meeting Table 6.5.6.1.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.5.7.1.1 [ME32] ²	Kitchen hoods >5,000 cfm have make up air >=50% of exhaust air volume.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
6.5.7.1.2 [ME46] ³	Conditioned supply air to space with a kitchen hood shall not exceed the greater of a) supply flow required to meet space heating or cooling, or b) hood exhaust flow minus the available air transfer from available spaces.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
6.5.7.1.2 [ME46] ³	Conditioned supply air to space with a kitchen hood shall not exceed the greater of a) supply flow required to meet space heating or cooling, or b) hood exhaust flow minus the available air transfer from available spaces.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
6.5.7.1.2 [ME46] ³	Conditioned supply air to space with a kitchen hood shall not exceed the greater of a) supply flow required to meet space heating or cooling, or b) hood exhaust flow minus the available air transfer from available spaces.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
6.5.7.1.2 [ME46] ³	Conditioned supply air to space with a kitchen hood shall not exceed the greater of a) supply flow required to meet space heating or cooling, or b) hood exhaust flow minus the available air transfer from available spaces.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
6.5.7.1.5 [ME49] ³	Approved field test used to evaluate design air flow rates and demonstrate proper capture and containment of kitchen exhaust systems.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.5.7.2 [ME33] ¹	Fume hoods exhaust systems >=15,000 cfm have VAV hood exhaust and supply systems, direct make-up air or heat recovery.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
6.5.8.1 [ME34] ²	Unenclosed spaces that are heated use only radiant heat.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
6.5.9 [ME35] ¹	Hot gas bypass limited to: <=240 kBtu/h - 50% >240 kBtu/h - 25%			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.5.9 [ME35] ¹	Hot gas bypass limited to: <=240 kBtu/h - 50% >240 kBtu/h - 25%			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.5.9 [ME35] ¹	Hot gas bypass limited to: <=240 kBtu/h - 50% >240 kBtu/h - 25%			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.5.9 [ME35] ¹	Hot gas bypass limited to: <=240 kBtu/h - 50% >240 kBtu/h - 25%			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
7.4.2 [ME36] ²	Service water heating equipment meets efficiency requirements.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
8.4.2 [EL10] ²	At least 50% of all 125 volt 15- and 20-Amp receptacles are controlled by an automatic control device.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
9.4.1.1 [EL1] ²	Automatic controls to shut off all building lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
9.4.1.2 [EL2] ²	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
9.4.1.3 [EL11] ²	Parking garage lighting is equipped with required lighting controls and daylight transition zone lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
9.4.1.4 [EL12] ¹	Primary sidelighted areas ≥ 250 ft ² are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
9.4.1.5 [EL13] ¹	Enclosed spaces with daylight area under skylights and rooftop monitors >900 ft ² are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
9.4.1.7 [EL3] ²	Automatic lighting controls for exterior lighting installed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
9.4.1.6 [EL4] ¹	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
9.4.2 [EL6] ¹	Exit signs do not exceed 5 watts per face.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
9.4.3 [EL7] ¹	Exterior grounds lighting over 100 W provides >60 lm/W unless on motion sensor or fixture is exempt from scope of code or from external LPD.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
9.6.2 [EL8] ¹	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
10.4.1 [EL9] ²	Electric motors meet requirements where applicable.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.4.3.1 [IN1] ¹	All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather stripped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
5.5.3.1 [IN2] ¹	Roof R-value. For some ceiling systems, verification may need to occur during Framing Inspection.	R-____ <input type="checkbox"/> Above deck <input type="checkbox"/> Metal <input type="checkbox"/> Attic	R-____ <input type="checkbox"/> Above deck <input type="checkbox"/> Metal <input type="checkbox"/> Attic	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.5.3.2 [IN6] ¹	Above-grade wall insulation R-value.	R-____ <input type="checkbox"/> Mass <input type="checkbox"/> Metal <input type="checkbox"/> Steel <input type="checkbox"/> Wood	R-____ <input type="checkbox"/> Mass <input type="checkbox"/> Metal <input type="checkbox"/> Steel <input type="checkbox"/> Wood	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.8.1.2 [IN7] ¹	Above-grade wall insulation installed per manufacturer's instructions.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
5.5.3.4 [IN8] ²	Floor insulation R-value.	R-____ <input type="checkbox"/> Mass <input type="checkbox"/> Steel <input type="checkbox"/> Wood	R-____ <input type="checkbox"/> Mass <input type="checkbox"/> Steel <input type="checkbox"/> Wood	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.8.1.1 [IN10] ²	Building envelope insulation is labeled with R-value or insulation certificate providing R-value and other relevant data.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
5.8.1.4 [IN11] ²	Eaves are baffled to deflect air to above the insulation.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
5.8.1.5 [IN12] ²	Insulation is installed in substantial contact with the inside surface separating conditioned space from unconditional space.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
5.8.1.6 [IN13] ²	Recessed equipment installed in building envelope assemblies does not compress the adjacent insulation.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
5.8.1.7 [IN14] ²	Exterior insulation is protected from damage with a protective material. Verification for exposed foundation insulation may need to occur during Foundation Inspection.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
5.8.1.7.1 [IN15] ²	Attics and mechanical rooms have insulation protected where adjacent to attic or equipment access.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

1 High Impact (Tier 1)
 2 Medium Impact (Tier 2)
 3 Low Impact (Tier 3)

Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.8.1.7.2 [IN16] ²	Foundation vents do not interfere with insulation.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
5.4.3.3 [F11] ¹	Weatherseals installed on all loading dock cargo doors in Climate Zones 4-8.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.3.1.2 [F13] ³	Thermostatic controls have a 5 °F deadband.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.3.2 [F120] ³	Temperature controls have setpoint overlap restrictions.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.3.3.1 [F121] ³	HVAC systems equipped with at least one automatic shutdown control.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.3.3.2 [F122] ³	Setback controls allow automatic restart and temporary operation as required for maintenance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.3.5 [F15] ³	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.3.7 [F16] ³	When humidification and dehumidification are provided to a zone, simultaneous operation is prohibited.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.7.2.1 [F17] ³	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.7.2.2 [F18] ³	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.7.2.3 [F19] ¹	An air and/or hydronic system balancing report is provided for HVAC systems serving zones >5,000 ft ² of conditioned area.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.7.2.4 [F110] ¹	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
7.4.4.3 [F111] ³	Public lavatory faucet water temperature ≤110°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
7.4.4.4 [F112] ³	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
8.7.1 [FI16] ³	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
8.7.2 [FI17] ³	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
9.2.2.3 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<i>See the Interior Lighting fixture schedule for values.</i>
9.4.3 [FI19] ¹	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<i>See the Exterior Lighting fixture schedule for values.</i>
10.4.3 [FI24] ²	Elevators are designed with the proper lighting, ventilation power, and standby mode.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

