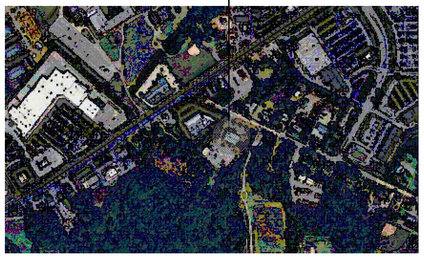
ADDITION & ALTERATIONS
BURLINGTON COUNTY DEPARTMENT OF PUBLIC WORKS
10 HARTFORD ROAD, DELRAN TWP, NEW JERSEY 08075

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PROJECT SITE



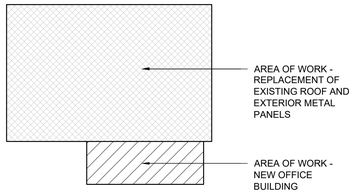
LOCATION MAP

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DRAWING INDEX

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KEY PLAN — NORTH

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BURLINGTON CO. NJ

SUBMISSION:

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Checked by	LU
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Drawing No.

A-001

GENERAL NOTES

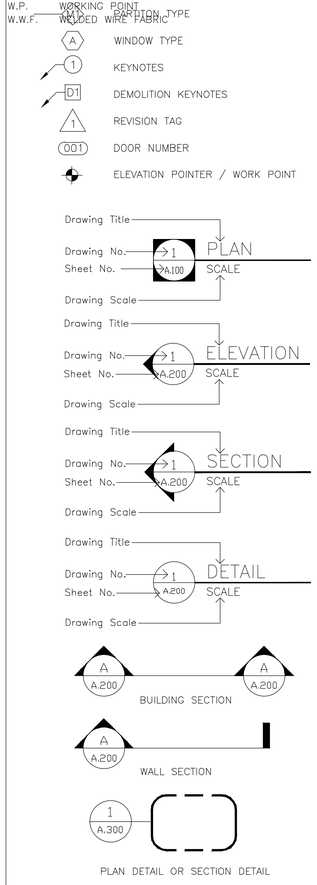
1. ALL WORK PERFORMED BY THE CONTRACTOR SHALL BE IN STRICT CONFORMANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE NEW JERSEY STATE UNIFORM CONSTRUCTION CODE AND INTERNATIONAL BUILDING CODE OF NEW JERSEY AND ALL ITS SUB CODES, OSHA AND ADA REQUIREMENTS AND ANY OTHER LOCAL, REGIONAL OR FEDERAL REGULATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR AND SHALL VERIFY EXISTING CONDITIONS AND REVIEW THESE CONDITIONS WITH THE PLANS BEFORE, DURING AND AFTER CONSTRUCTION, AND ANY DISCREPANCIES BETWEEN THE ACTUAL CONDITIONS AND THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING IMMEDIATELY.
3. ALL WALL THICKNESS ARE NOMINAL DIMENSIONS ONLY ROUNDED TO THE NEAREST WHOLE INCH, REFER TO WALL SECTIONS AND DETAILS FOR THEIR ACTUAL THICKNESS.
4. ALL DIMENSIONS ARE FROM THE FACE OF MASONRY, FACE OF GYPSUM BOARD BOARD OR FROM THE COLUMN CENTER LINES UNLESS OTHERWISE NOTED.
5. EXCEPT WHERE OTHERWISE INDICATED, ALL WALLS AND PARTITIONS ARE DIMENSIONED TO THEIR "NOMINAL" SIZES. WHERE DIMENSIONS ARE NOTED AS "MIN.", PROVIDE MIN. CLEAR TO FINISH SURFACES.
6. BEFORE COMMENCING WORK, THE CONTRACTOR SHALL PROPERLY INDENTIFY AND MARK-UP ALL EXISTING UTILITIES.
7. DO NOT SCALE DRAWINGS.
8. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED BUT NECESSARY FOR PROPER EXECUTION OF ANY PART OF THE WORK SHALL BE INCLUDED AS IF THEY WERE INDICATED IN THE DRAWINGS.
9. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS , SYMBOLS AND LEGENDS. ALL NOTES ARE TO BE REVIEWED AND APPLIED TO RELATED BUILDING COMPONENTS.
10. WHERE PIPING IS TO BE CONCEALED, THE HUNG OR FURRED CEILING IN THESE AREAS ARE NOT TO BE INSTALLED UNTIL THOSE PIPES HAVE BEEN PROPERLY TESTED.
11. INTERIOR PARTITIONS SHALL NOT BE BUILT TO FULL HEIGHT UNLESS ALL DUCTS, PIPES, ETC. ARE IN PLACE.
12. ALL SPACES WITH FLOOR DRAINS (INCLUDING AREAWAYS) SHALL HAVE THEIR FLOORS PITCHED TO THOSE FLOOR DRAINS UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
13. ALL ITEMS RECESSED INTO RATED PARTITIONS (SUCH AS OUTLET BOXES, PANEL BOXES, ETC) SHALL HAVE THOSE OPENINGS PROTECTED WITH BACK-UP MATERIALS SO AS TO RETAIN THE INTEGRITY OF THE PARTITION RATING THROUGHOUT.
14. ALL STRUCTURAL STEEL LESS THAN 8" FROM EXTERIOR SHALL BE PROPERLY WATERPROOFED.
15. EXCEPT AS OTHERWISE INDICATED, DOOR SADDLES OR DIVIDING STRIPS ARE REQUIRED AT INTERIOR DOOR OPENINGS WHERE DIFFERENT TYPES OF FLOOR FINISHES OCCUR IN IMMEDIATELY ADJOINING ROOMS. POSITION ON LINE OF CENTER DOOR WHEN DOOR IS CLOSED.
16. THE GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LINTELS, STRUTS, BRACKETS, HANGERS, ETC. WHEREVER NECESSARY TO SUPPORT AND/OR BRACE ALL FINISHES, EQUIPMENT RECESSES, HEADS OVER OPENINGS, FURNITURE, ETC.
17. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES AND ELECTRICAL CONDUITS PRIOR TO STARTING ANY EXCAVATION OPERATIONS. SHOULD ANY CONDUITS BE ENCOUNTERED WHICH WERE NOT KNOWN TO EXIST, THE CONTRACTOR SHALL STOP WORK IN THAT AREA AND IMMEDIATELY NOTIFY THE ARCHITECT.
18. SWEEPING, BRUSHING, AND OTHER GENERAL CLEANING OF COMPLETED WORK AND THE REMOVAL OF DEBRIS, SURPLUS MATERIALS, TOOLS NOT IN ACTIVE USE, SCAFFOLDING AND OTHER EQUIPMENT NO LONGER NEEDED SHALL BE CARRIED OUT ON AN ONGOING BASIS. IN ADDITION, REMOVE STAINS, SPOTS, MARKS, AND DIRT FROM FINISH WORK. THE JOB IS TO BE MAINTAINED FREE OF RUBBISH. DISPOSE OF ALL RUBBISH IN ACCORDANCE WITH LOCAL ORDINANCES.
19. ALL HEIGHTS INDICATED ON REFLECTED CEILING PLANS ARE FROM TOP OF FINISHED FLOOR TO BOTTOM OF CEILING / FIXTURE SPECIFIED, U.O.N..
20. THE CONTRACTOR SHALL FURNISH & INSTALL ALL CLIPS, ANGLES AND MISC. STEEL TO SECURE FRAMING TO STRUCTURE
21. HINGE SIDE OF DOOR TO BE 4" FROM ADJACENT WALL OR AS OTHERWISE MENTIONED.
22. MASONRY OPENINGS ARE NOMINAL DIMENSIONS. CONTRACTOR TO ALLOW CLEARANCE AT OPENING TO INSTALL WINDOW SYSTEM, DOOR SYTEM OR OTHER ITEMS INSTALLED IN MASONRY.
23. ALL METAL FLASHING SHALL BE STAINLESS STEEL, UNLESS NOTED OTHERWISE.
24. AT LOCATIONS WHERE SHELF ANGLES ARE INSTALLED, INSTALL STAINLESS STEEL FLASHING, WEEP HOLES AND MORTAR NET.
25. ALL EXPOSED INTERIOR/EXTERIOR METAL ITEMS TO BE PRIMED AND PAINTED (INCLUDING GALVANIZED METALS) UNLESS OTHERWISE NOTED.
26. ALL STEEL LINTELS TO BE GALVANIZED AND PAINTED INCLUDING ALL EXTRA STEELS SPECIFIED HEREIN.
27. ALL EXPOSED GWB TO BE SPACKLED PRIMED AND PAINTED UNLESS OTHERWISE NOTED.
28. THE CONTRACTOR AND THEIR TRADE SUB-SUBCONTRACTORS SHALL BE RESPONSIBLE FOR VISITING THE SITE AND FAMILIARIZING THEMSELVES WITH ALL EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID.
29. THE CONTRACTOR SHALL COORDINATE ALL STAGING AREAS WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING WORK.
30. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL WORK UNDER THIS CONTRACT TO ENSURE THE QUALITY AND TIMELY COMPLETION OF THE WORK/PROJECT. THE CONTRACTOR SHALL COORDINATE ALL AREAS OF WORK WITH OTHER SUBCONTRACTORS INVOLVED WITH THE PROJECT.
31. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS THAT ARE REQUIRED.
32. THE CONTRACTOR SHALL PROPERLY PROTECT AND MAKE SAFE ADJACENT PROPERTY AS JOB CONDITIONS REQUIRED.
33. ALL PRECAUTIONS ARE TO BE TAKEN TO PREVENT DIRT, WATER AND DUST FROM ENTERING CONSTRUCTED PARTS OF THE BUILDING DURING THE PROGRESS OF THE WORK.
34. THE CONTRACTOR SHALL MAINTAIN FREE AND UNOBSTRUCTED ACCESS FROM WORK AREA AND ADJACENT SPACES TO THE OUTSIDE OF THE BUILDING AT ALL TIMES.
35. PROVIDE GUARDS, RAILS, BARRICADES, FENCES, SIDEWALK SHEDS, CATCH PLATFORMS, DECKING, NIGHT LIGHTING, AS REQUIRED BY BUILDING CODE, AND AS REQUIRED TO PROVIDE ADEQUATE PROTECTION.
36. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, DISTORTIONS, AND OFF ALIGNMENTS ACCORDING TO CODES AND STANDARDS OF GOOD PRACTICE.
37. THE WORDS "PROVIDE" OR "PROVIDE NEW" MEANS TO FURNISH AND INSTALL NEW ITEM(S) AND/OR SYSTEM(S) INDICATED.
38. ALL PLUMBING, ELECTRICAL AND OTHER TRADE CONTRACT WORK REQUIRING THE USE OF LICENSED PERSONNEL SHALL BE PERFORMED BY LICENSED CONTRACTORS.
39. ALL INTERIOR WOOD BLOCKING SHALL BE CONSTRUCTED WITH FIRE RETARDANT AND PRESERVATIVE TREATED WOOD, UNLESS OTHERWISE NOTED.
40. THE CONTRACTOR SHALL PROVIDE SLEEVES AND FIRE SEALANT AROUND ALL NEW THROUGH WALL PENETRATIONS IN FIRE RATED WALLS. SEE MECHANICAL, ELECTRICAL, FIRE PROTECTION AND PLUMBING DRAWINGS. SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS WITH UL APPROVED FIRE RATED SYSTEMS.
41. ALL WOOD BLOCKING AND NAILERS ASSOCIATED WITH ROOFING WORK SHALL BE FIRE RETARDANT AND PRESERVATIVE TREATED WOOD, UNLESS OTHERWISE NOTED.

ABBREVIATIONS

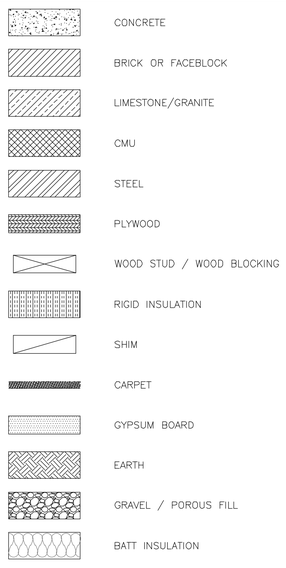
ALUM.	ALUMINUM
A.F.F.	ABOVE FINISH FLOOR
ALT.	ALTERNATE
APPROX.	APPROXIMATE
ARCH.	ARCHITECT
ARCH'L.	ARCHITECTURAL
BD.	BOARD
BLDG.	BUILDING
BOT.	BOTTOM
C.J.	CONTROL JOINT
CLG.	CEILING
CU	CONDENSING UNIT
CLO.	CLOSET
C.T.	CERAMIC TILE
COL.	COLUMN
C.M.U.	CONCRETE MASONRY UNIT
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
DET.	DETAIL
DIA.	DIAMETER
DIM.	DIMENSION
DN.	DOWN
DR.	DOOR
DWG.	DRAWING
EA.	EACH
ELEC.	ELECTRIC
ELECT'L.	ELECTRICAL
ENCL.	ENCLOSURE
EL.	ELEVATION
ELEV.	ELEVATOR
EQUIP.	EQUIPMENT
EQ.	EQUAL
E.W.C.	ELECTRIC WATER COOLER
EXIST.	EXISTING
E.T.R.	EXISTING TO REMAIN
EXP.	EXPANSION
EXT.	EXTERIOR
E.J.	EXPANSION JOINT
E.O.S.	EDGE OF SLAB
E.M.R.	ELEVATOR MACHINE ROOM
F.D.	FLOOR DRAIN
F.E.	FREIGHT ELEVATOR
FDN.	FOUNDATION
FIN.	FINISH
FL.	FLOOR
FLR.	FLOOR
FLUOR.	FLUORESCENT
FT.	FOOT / FEET
FTG.	FOOTING
F.R.T.	FIRE RETARDANT TREATED
GA.	GAUGE
GALV.	GALVANIZED
GL.	GLASS
GWB	GYPSUM WALL BOARD
GYP. BD.	GYPSUM BOARD
H.C.	HANDICAPPED
HDWR.	HARDWARE
HDWD.	HARDWOOD
H.M.	HOLLOW METAL
H.P.	HIGH POINT
HT.	HEIGHT
H.V.A.C.	HEATING, VENTILATION, & AIR CONDITIONING
HORIZ.	HORIZONTAL
HR.	HOUR
I.D.	INSIDE DIAMETER
IN.	INCH / INCHES
INCL.	INCLUDING
INFO.	INFORMATION
INSUL.	INSULATION
INV.	INVERT
JT.	JOINT
LAM.	LAMINATE
LAV.	LAVATORY
LG.	LONG
L.P.	LOW POINT
LT.	LIGHT
LT. WT.	LIGHT WEIGHT
MACH.	MACHINE
M.H.	MANHOLE
MAT'L	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MEMB.	MEMBRANE
MIN.	MINIMUM
MIR.	MIRROR
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
MLDG.	MOLDING
M.O.H.	MIRROR OPPOSITE HAND
MTD.	MOUNTED
MTL	METAL
MFD.	METAL FLOOR DECK
MDF.	MEDIUM DENSITY FIBERBOARD
MRD.	METAL ROOF DECK
MULL.	MULLION
N	NORTH
NAT.	NATURAL
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
N.T.S.	NOT TO SCALE
O.A.	OVERALL
O.A.I.	OUTSIDE AIR INTAKE
O.C.	ON CENTER
OPNG.	OPENING
OPP.	OPPOSITE
ORIG.	ORIGINAL
O.H.	OVERHEAD
O.D.	OVERFLOW DRAIN
PART.	PARTITION
PTN.	PARTITION
PASS.	PASSENGER
PLAS.	PLASTIC
PL. LAM.	PLASTIC LAMINATE
PL.	PLATE
PLYWD.	PLYWOOD
PANL.	PANEL
PR.	PAIR
PTD.	PAINTED
P.V.C.	POLYVINYL CHLORIDE
P.S.I.	POUNDS PER SQUARE INCH
P.S.F.	POUNDS PER SQUARE FOOT
R.	RISER
RAD.	RADIUS
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
R.D.	ROOF DRAIN
RE.	REFERENCE
REF.	REFRIGERATOR
REFL.	REFLECTED
REQ'D.	REQUIRED
REINF.	REINFORCING
REV.	REVISION
R.H.	RIGHT HAND
RM.	ROOM
R.O.	ROUGH OPENING
R.O.D.	ROOF OVERFLOW DRAIN
SECT.	SECTION
SHO.	SHOWER
SIM.	SIMILAR
SK	SKETCH
SPECS.	SPECIFICATIONS
SQ.	SQUARE
S/STL.	STAINLESS STEEL
STL.	STEEL
STD.	STANDARD
STRUCT.	STRUCTURE
STRUCT'L	STRUCTURAL
SUSP.	SUSPENDED
T/	TOP OF
T.O.	TOP OF
TEL.	TELEPHONE
TERR.	TERRAZZO
TRANS.	TRANSFORMER
TYP.	TYPICAL
TBD.	TO BE DETERMINED
U.L.	UNDERWRITER'S LABORATORY
UNFIN.	UNFINISHED
U.O.N.	UNLESS OTHERWISE NOTED
UTIL.	UTILITY
V.B.	VINYL BASE
V.C.T.	VINYL COMPOSITION TILE
VERT.	VERTICAL
VEST.	VESTIBULE
V.I.F.	VERIFY IN FIELD
VOL.	VOLUME
VTR	VENT THRU ROOF
W/	WITH
W.C.	WATER CLOSET
WDW.	WINDOW
W.F.	WIDE FLANGE
W.O.	WINDOW OPENING

SYMBOLS

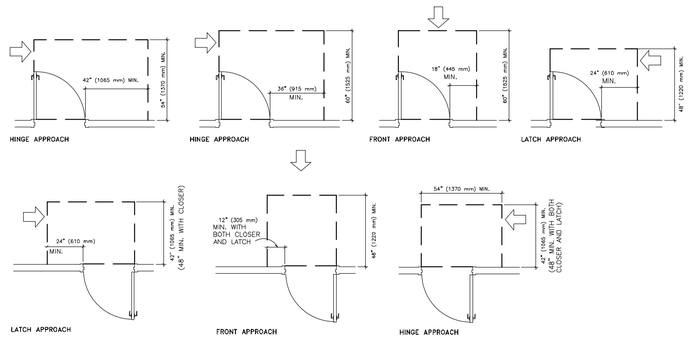
W.P. WORKING POINT
W.W.F. WELDED WIRE FABRIC



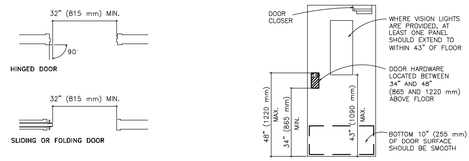
MATERIALS LEGEND



ACCESSIBLE CLEARANCES AT SWINGING DOORS



CLEAR WIDTH OF ACCESSIBLE DOORWAYS



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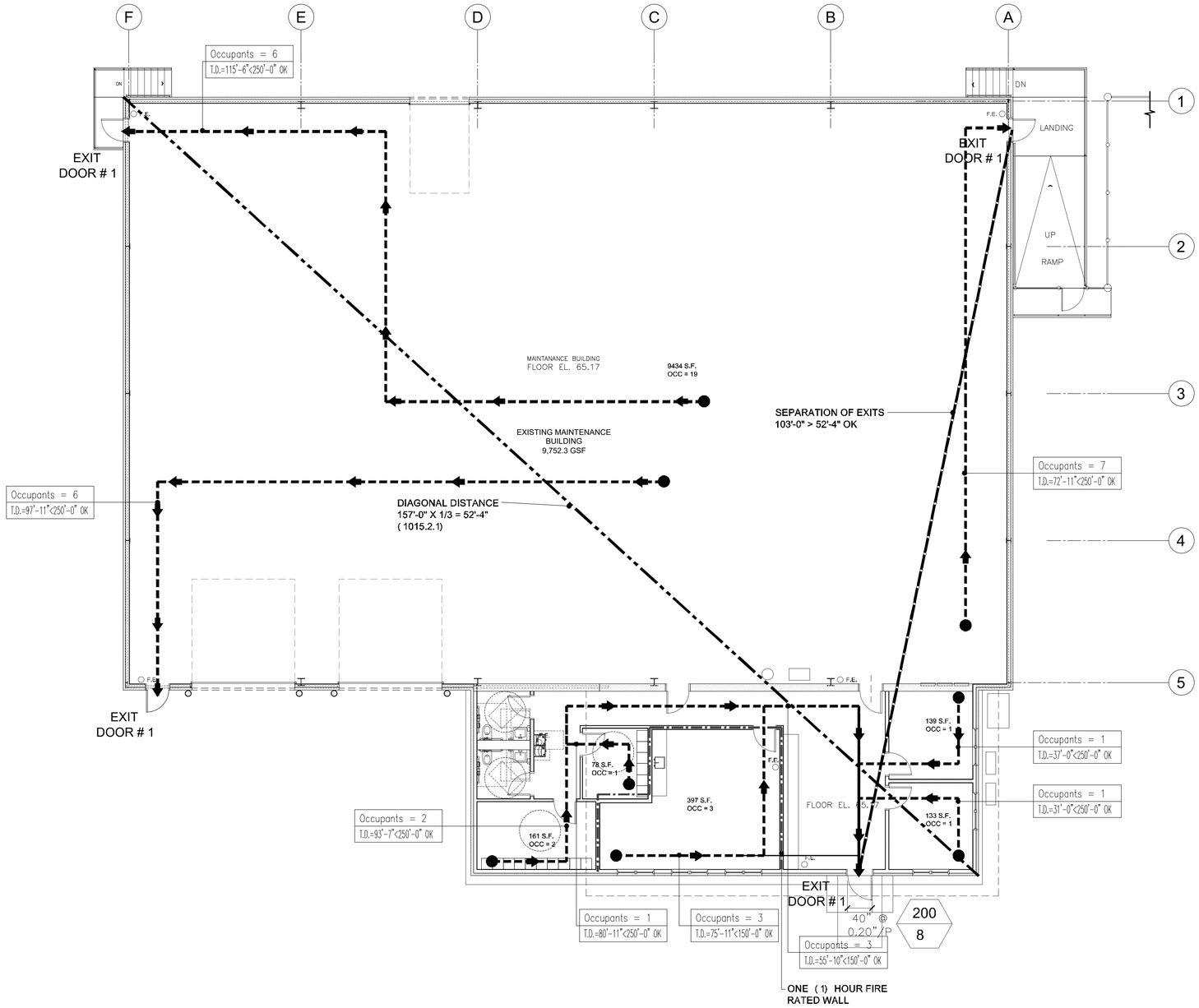
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Date	04.09.24
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Drawn by	MR
Checked by	LU
Job No.	2241869

Drawing No.

A-002



A / A-003 FIRST FLOOR EGRESS PLAN

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

LEGEND

- TD = X' - X" — TRAVEL DISTANCE
- EGRESS PATH
- 1-HOUR RATED WALL
- DIAGONAL DISTANCE
- SEPARATION OF EXITS
- XXX / XXX — EGRESS CAPACITY (OCCUPANTS) ACTUAL EGRESS OCCUPANTS
- F.E. — NEW WALL MOUNTED FIRE EXTINGUISHER
- F.E. — RECESSED FIRE EXTINGUISHER CABINET

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Checked by	LU
Job No.	2241869

Drawing No.

A-003

SPACES WITH ONE EXIT (TABLE 1006.2.1)

OCCUPANCY	MAXIMUM OCCUPANT LOAD	
GROUP B	49	
	MAX. COMMON PATH OF EGRESS W/O SPRINKLER = 75'	
GROUP S-2	29	
	MAX. COMMON PATH OF EGRESS W/O SPRINKLER = 100'	

EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2)

OCCUPANCY	WITHOUT SPRINKLER SYSTEM	WITH SPRINKLER SYSTEM	IBC REFERENCE
GROUP B	200'	300'	TABLE 1017.2
GROUP S	300'	400'	TABLE 1017.2

CORRIDOR FIRE-RESISTANCE RATING (TABLE 1020.2)

OCCUPANCY	OCCUPANT LOAD SERVICED BY CORRIDOR	REQUIRED FIRE-RESISTANCE RATING (SPRINKLERED SYSTEM)
GROUP B	GREATER THAN 30	0-HOUR
GROUP S	GREATER THAN 30	0-HOUR
MIN. CORRIDOR WIDTH = 36"W TABLE 1020.3		

INTERIOR EXIT STAIRWAYS AND RAMPS (1023)

CONSTRUCTION 1023.2	INTERIOR EXIT STAIRS SHALL BE CONSTRUCTED AS FIRE BARRIERS (SECTION 707) & HORIZ. ASSEMBLIES (SECTION 711) WITH A 1 HR FIRE RATING.	IBC REFERENCE SECTION 1023.2

SOUND TRANSMISSION (SECTION 1206)

SOUND TRANSMISSION CLASS (STC)	REQUIREMENT		ACTUAL	SECTION
IMPACT INSULATION CLASS (IIC)	SEPARATING WALLS: DWELLING UNIT/DWELLING UNIT DWELLING UNIT/CORRIDOR	FLOOR/CEILING ASSEMBLIES		1207
	50	50	50	1207.2
	50	50	50	1207.3

MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES TABLE 7.21.1 NATIONAL STANDARD PLUMBING CODE 2021)

USE GROUP	NUMBER OF PERSONS OF EACH SEX	WATER CLOSETS (URINALS) MALE REQD	MALE PROVD	FEMALE REQD	FEMALE PROVD	LAVATORIES MALE REQD	MALE PROVD	FEMALE REQD	FEMALE PROVD	DRINKING WATER FACILITIES REQD	DRINKING WATER FACILITIES PROVD	SAFETY SHOWER REQD	SAFETY SHOWER PROVD	OTHER
FOR FIRST FLOOR LEVEL														
BUSINESS	REQUIRED NUMBER OF PLUMBING FIXTURES PER OCCUPANTS													
	1- 15 OCCS	1	1	1	1	1	1	1	1	1 PER 100 OCC.	0	0	0	1 SERVICE SINK PER FLOOR
	16-50 OCCS	+1		+1		+1		+1			0	0	0	
	EA. ADD'L 50 OVER 100 OCCS	+1		+1		+1		+1			0	1		
STORAGE (S-1 & S-2)	REQUIRED NUMBER OF PLUMBING FIXTURES PER OCCUPANTS													
	50 OR LESS OCCS	1		1		1		1		1 PER 500 OCC.		0	0	1 PROVIDED 1ST FLR
	51-100 OCCS	+1		+1		+0		+0				0	0	
	EA. ADD'L 100 OVER 100 OCCS	+1		+1		+1		+1				0	0	
TOTAL			1		1		1		1	2			2	

MIN. NUMBER OF EXITS PER STORY (TABLE 1006.3.3)

OCCUPANT LOAD	MIN. NUMBER OF EXITS	IBC REFERENCE
1-500	2	TABLE 1006.3.3
501-1,000	3	
MORE THAN 1,000	4	

PERCENTAGE OF MAXIMUM ALLOWABLE QUANTITIES (TABLE 414.2.2)

STORY		PERCENTAGE OF MAX. ALLOWABLE QUANTITY PER CONTROL AREA	NUMBER OF CONTROL AREAS PER STORY	FIRE-RESISTANCE RATING FOR FIRE BARRIERS IN HOURS
ABOVE GRADE PLANE	1	100		

FIRE RESISTANT RATING REQUIREMENTS FOR BUILDING ELEMENTS (TABLE 601)

CONSTRUCTION CLASSIFICATION II-B

	CRITERION / DESIGNATION ALLOWABLE	ACTUAL	IBC REFERENCE
PRIMARY STRUCTURAL FRAME	0-HR	1-HR	TABLE 601
BEARING WALLS - EXTERIOR - INTERIOR	0-HR 0-HR	1-HR 1-HR	TABLE 601
NON-BEARING WALLS & PARTITION - EXTERIOR	TABLE 602		
NON-BEARING WALLS & PARTITION - INTERIOR	0-HR	1-HR*	TABLE 601
FLOOR CONSTRUCTION - INCLUDING SUPPORTING BEAMS AND JOISTS	0-HR	0-HR*	TABLE 601
ROOF CONSTRUCTION - INCLUDING SUPPORTING BEAMS AND JOISTS	0-HR	0-HR	TABLE 601
		* EXCEPT PER OTHER SECTIONS OF CODE	

USE GROUP B 0-HR (SPRINKLERED)

FIRE AND SMOKE PROTECTION FEATURES (CHAPTER 7)

SEC.	TITLE	FIRE-RESISTANCE RATING REQUIREMENT	ACTUAL FIRE-RESISTANCE RATING
704	FIRE-RESISTANCE RATING OF STRUCTURAL MEMBERS	PER TABLE 601	PER TABLE 601
705	EXTERIOR WALLS	PER TABLE 602	PER TABLE 601
706	FIRE WALLS	2-HR (BASED ON TYPE II CONSTRUCTION) (TABLE 706.4)	N/A
707	FIRE BARRIERS	2-HR (TABLE 707.3.10)	N/A
708	FIRE PARTITIONS	0-HR MIN. WHEN APPLICABLE	0-HR, BASED ON TABLE 1020.2, SPRINKLERED
709	SMOKE BARRIERS	CORRIDOR WALLS PER TABLE 1020.1, 0-HR, A-3 & B USES	0-HR
710	SMOKE PARTITIONS	1-HR	N/A
711	HORIZONTAL ASSEMBLIES	PER CONSTRUCTION TYPE TABLE 601	PER TABLE 601
713	SHAFT ENCLOSURES	CONNECT 4+ STORIES = 2-HR CONNECT LESS THAN 4 STORIES = 1-HR	1-HR

OPENING FIRE PROTECTION RATINGS TABLE 716.1 (2)

TYPE OF ASSEMBLY	REQUIRED ASSEMBLY RATING	MIN. FIRE DOOR AND FIRE SHUTTER RATING	DOOR VISION PANEL SIZEb
FIRE WALLS AND FIRE BARRIERS HAVING A REQUIRED FIRE-RESISTANCE RATING GREATER THAN ONE-HOUR	4-HR 3-HR 2-HR 1 1/2-HR	3-HR 3-HR * 1 1/2-HR 1 1/2-HR	SEE NOTE b SEE NOTE b 100 SQ. IN. 100 SQ. IN.
ENCLOSURE FOR SHAFTS, INTERIOR EXIT STAIRWAYS AND INTERIOR EXIT RAMPS	2-HR	1-1/2-HR	100 SQ. IN.
HORIZONTAL EXITS IN FIRE WALLS	4-HR 3-HR	3-HR 3a-HR	100 SQ. IN.
FIRE BARRIERS HAVING A REQUIRED FIRE RESISTANCE RATING OF ONE-HOUR: SHAFTS, EXIT ENCLOSURES AND EXIT PASSAGEWAY WALLS: OTHER FIRE BARRIERS:	1-HR 1-HR	1-HR 3/4-HR	100 SQ. IN. MAXIMUM SIZE TESTED
FIRE PARTITIONS CORRIDOR WALLS: OTHER FIRE PARTITIONS: * ONLY WHERE INDICIATED	1-HR 0.5-HR 0.5-HR*	1/3-HR 1/3-HR 3/4-HR*	MAXIMUM SIZE TESTED
EXTERIOR WALLS	3-HR 2-HR 1-HR	1 1/2-HR 1 1/2-HR 3/4-HR	100 SQ. IN. MAXIMUM SIZE TESTED
SMOKE BARRIERS	1-HR	1/3-HR	MAXIMUM SIZE TESTED

FIRE WINDOW ASSEMBLY FIRE PROTECTION RATINGS (TABLE 716.1 (3)

TYPE OF ASSEMBLY		REQUIRED ASSEMBLY RATING	MIN. FIRE WINDOW ASSEMBLY RATING
INTERIOR WALLS	FIRE WALLS	ALL	NOT PERMITTED UNLESS COMPLIES WITH EXCEPTION A
	FIRE BARRIERS	>1-HR 1-HR	NOT PERMITTED, UNLESS COMPLIES WITH EXCEPTION A
	SMOKE BARRIERS	1-HR	3/4-HR
	FIRE PARTITIONS	1-HR 0.5-HR	3/4-HR 1/3-HR
EXTERIOR WALLS		>1-HR 1-HR 0.5-HR	1 1/2 -HR 3/4-HR 1/3-HR
PARTY WALL		ALL	NOT PERMITTED

DOORS, GATES & TURNSTILES (SECTION 1010)

	ALLOWABLE	ACTUAL	IBC REFERENCE
SIZE OF DOORS	MIN. 32" WIDE MAX. 48" WIDE	3'-0" WIDE MIN. DOORS	1010.1.1
PROJECTION INTO SPACE	4" MAX FOR PROJECTIONS BETWEEN WITH OF 34"WX80"H	LESS THAN 4" PROJECTION	1010.1.1.1
DOOR SWING	SIDE HINGE OR EXCEPTION DIRECTION OF EGRESS > 50 PERSONS	SIDE HINGE	1010.1.2.1
REVOLVING DOORS	SEE IBCNJ FOR FURTHER INFO.	N/A	1010.3.1
POWER OPERATED	SEE IBCNJ FOR FURTHER INFO.	N/A	1010.3.2
HORIZONTAL SLIDING	SEE IBCNJ FOR FURTHER INFO.	WILL COMPLY	1010.3.3
ACCESS CONTROLED	SEE IBCNJ FOR FURTHER INFO.	N/A	1010.2.11
SECURITY GRILLES	SEE IBCNJ FOR FURTHER INFO.	N/A	1010.3.4
FLOOR ELEVATIONS	SAME ELEVATION AT BOTH SIDES OF DOOR OR EXCEPTION		1010.1.4
DOOR LANDINGS	LENGTH MIN. 44", DOOR OPEN MAX 7" ONTO LANDING, OR EXCEPTIONS		1010.1.5
THRESHOLDS	.5" MAX . HT. OR EXCEPTIONS		1010.1.6
DOOR ARRANGEMENTS	48" MIN. BETWEEN DOORS PLUS DOOR SWING OR EXCEPTIONS		1010.1.7
DOOR OPERATIONS	READILY OPENABLE WITHOUT USE OF KEY OR EFFORT, OR EXCEPTION		1010.2
PANIC HARDWARE	SEE IBCNJ FOR FURTHER INFO.	AT EXIT DOORS ENTRANCE	1010.2.9

RAMPS (SECTION 1012)

	REQUIREMENT	SECTION
SLOPE	ADA- 1/12 PEDESTRIAN - 1/8	1012.2
CROSS SLOPE	1/48	1012.3
VERTICAL RISE	30" MAX	1012.4
MINIMUM DIM	WIDTH - NOT LESS THAN CORRIDOR REQUIREMENTS, 36" MIN.	1012.5.1
	HEADROOM - MIN. 80"	1012.5.2
	RESTRICTION-PROJECTIONS PROHIBITED DOOR OPENING -MIN. LANDING 42"	1012.5.3
LANDINGS	SLOPE-NOT GREATER THAN 1/48	1012.6.1
	WIDTH-MIN AS RAMP	1012.6.2
	LENGTH-60" MIN OR EXCEPTION	1012.6.3
RAMP CONSTRUCTION	NON-SLIP, OUTDOORS-SHALL NOT ACCUMILATE WATER	1012.7
HANDRAILS	RISE > 6" - BOTH SIDES	1012.8
EDGE PROTECTION	CURB, RAIL, WALL- PREVENT 4" DIA. SPHERE OR EXCEPTION	1012.10
GUARDS	ACCORDANCE W/ SECTION 1015	1012.09

HANDRAILS (SECTION 1014)

	REQUIREMENT	SECTION
WHERE REQUIRED	RAMPS & STAIRS -SECTION 1607.8, 1011.11 1012.8, 1014.2 THRU 1014.9	1014.1
HEIGHT	ABOVE NOSING- NOT LESS THAN 34" NOT GREATER THAN 38" OR EXCEPTION	1014.2
GRASPBILITY	DIA. MIN 1.25" & MAX 2" OR EXCEPTION	1014.3
CONTINUITY	CONTINUOUS W/O INTERUPTION OR EXCEPTION	1014.4
EXTENTIONS	TOP RISER & BOTTOM RISER EXTEND 12" AS WELL AS 12" AT RAMPS	1014.6
CLEARANCE	MIN. 1.5"	1014.7
PROJECTIONS	NOT MORE THAN 4.5" INTO REQUIRED WIDTH	1014.8
INTERMEDIATE	WITHIN 30"	1014.9

GUARDS (SECTION 1015)

	REQUIREMENT	SECTION
WHERE REQUIRED	LANDINGS, STAIRWAYS WALKING SURFACE ETC... > 30" OR EXCEPTION	1015.2
	GUARDRAILS SHALL BE ADEQUATE STRENGTH AND ATTACHMENT IN ACCORDANCE WITH SECTION 1607.9	
HEIGHT	42" OR EXCEPTIONS	1015.3
OPENESS LIMITATION	4" SPHERE TO 34" & 8" SPHERE FROM 34" TO 42" OR EXCEPTIONS	1015.4
ROOF MECH. EQUIP.	10' FROM ROOF EDGE & EXTEND 30" PAST EQUIP. OPENESS -21" SPHERE	1015.6
ROOF HATCH	10' FROM ROOF EDGE >30" & EXTEND NO LESS THAN 30" PAST HATCH ENDING. OPENING PREVENT PASSAGE OF 21" SPHERE	1015.7
		1015.8

PORTABLE FIRE EXTINGUISHERS (SECTION 906)

ORDINARY (MODERATE) HAZARD OCCUPANCY

DISCRIPTION	TOTAL EXTINGUISHERS
WALL MOUNTED	7

MAXIMUM ALLOWABLE QUANTITY PER CONTROL AREA OF HAZARDOUS MATERIALS (TABLE 307.1)

MATERIAL	CLASS	GROUP WHEN MAX. ALLOWABLE QUANTITY IS EXCEEDED	STORAGE SOLID POUND (CUBIC FEET)	STORAGE LIQUID GALLONS (POUNDS)	STORAGE GAS (CUBIC FEET @ NTP)	USE CLOSED SYSTEMS SOLID POUND (CUBIC FEET)	USE CLOSED SYSTEMS LIQUID GALLONS (POUNDS)	USE OPEN SYSTEMS SOLID POUND (CUBIC FEET)	USE OPEN SYSTEMS LIQUID GALLONS (POUNDS)
FLAMMABLE LIQUID	1B AND 1C (ACETIC ACID, ACETONE, ETHANOL)	H-2 OR H-3	NA	10 ≤ 30	NA	NA	1 ≤ 30	NA	NA
OXIDIZER	(POTASSIUM PERMANGANATE)	H-2 OR H-3	1 ≤ 10	1 ≤ 10	NA	.5 ≤ 2	NA	.5 ≤ 2	NA

BUILDING CODE INFORMATION

PROJECT NAME:	ADDITIONS AND ALTERATIONS BURLINGTON COUNTY MOSQUITO CONTROL BUILDING
LOCATION:	10 HARTFORD ROAD, DELRAN TWP, BURLINGTON, NJ
LOT & BLOCK NO.:	BLOCK 83, LOTS 11 & 12A
ZONE:	C-2 (GENERAL COMMERCIAL)

THE PRIMARY CODE REFERENCE WILL BE THE NEW JERSEY UNIFORM CONSTRUCTION CODE (N.J.A.C. 5:23 ET SEQ). THE UNIFORM CONSTRUCTION CODE ADOPTS SEVERAL MODEL CODES THAT ARE REFERENCED AS SUBCODES. THESE SUBCODES ARE AN INTEGRAL PART OF THE UNIFORM CONSTRUCTION CODE AND ARE AS FOLLOWS:

SUBCODE	NATIONAL MODEL CODE	UCC REFERENCE
BUILDING	INTERNATIONAL BUILDING CODE 2021 NJ Edition	N.J.A.C. 5:23-3.14
ACCESSIBILITY	ANSI-A117.1 - 2017	N.J.A.C. 5.23-7
PLUMBING	NATIONAL STANDARD PLUMBING CODE 2021, NJ Edition	N.J.A.C. 5:23-3.15
ELECTRICAL	NATIONAL ELECTRICAL CODE (NFPA 70) 2020	N.J.A.C 5:23-3.16
ENERGY	INTERNATIONAL ENERGY CONSERVATION CODE / 2021	N.J.A.C. 5:23-3.18
MECHANICAL	INTERNATIONAL MECHANICAL CODE / 2021	N.J.A.C. 5.23-3.20

GENERAL BUILDING INFORMATION

	CRITERION / DESIGNATION	IBC REFERENCE
USE AND OCCUPANCY CLASSIFICATION	GROUP B - BUSINESS GROUP GROUP S-2 - LOW HAZARD STORAGE (VEHICLE REPAIR GARAGE)	SEC. 304. & 311.2
CONSTRUCTION CLASSIFICATION	II-B	TABLES 504.3, 504.4, 506.2 & 601
FIRE SUPPRESSION	YES	SEC. 903.2.1.3

GENERAL BUILDING HEIGHTS & AREAS

ALLOWABLE BUILDING HEIGHT AND AREA (CHAPTER 5)
GROUPS: B - BUSINESS
S-2 - LOW HAZARD STORAGE
CONSTRUCTION TYPE: II-B

OVERALL ACTUAL BUILDING INFORMATION:
STORIES: 1-STORY
HEIGHT: 27'-7.5" ± HIGH TO TOP OF PARAPET WALL

RENOVATION AREAS:
FIRST FLOOR LEVEL RENO: 11,549 S.F.

TOTAL AREA: 11,549 S.F.

GROUP B - BUSINESS
CONSTRUCTION TYPE: II-B
ALLOWABLE HEIGHT: 75' H SPRINKLERED (TABLE 504.3)
ALLOWABLE STORIES: 4-STORIES (TABLE 504.4)
ALLOWABLE AREA = 69,000 S.F. (GROUP B - "SM" TABLE 506.2) (WITHOUT THE ADDITION OF AN ALLOWABLE FRONTAGE INCREASE, SEE BELOW)

GROUP S-2 LOW HAZARD STORAGE
CONSTRUCTION TYPE: II-B
ALLOWABLE HEIGHT: 75' (TABLE 504.3)
ALLOWABLE STORIES: 4-STORIES (TABLE 504.4)
ALLOWABLE AREA = 78,000 S.F. (GROUP S-2 - "SM" TABLE 506.2)

SEPARATED USES ALLOWABLE AREAS
X USE GROUP ACTUAL AREA
X USE GROUP ALLOWABLE AREA
PROVIDED: B 1,797 SF S-2 9,752 SF
ALLOWED: B 69,000 SF S-2 78,000 SF

INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY (TABLE 803.13)

SPRINKLERED

GROUP	EXIT ENCLOSURES AND EXIT PASSAGEWAYS	CORRIDORS	ROOMS AND ENCLOSED SPACE
B	B	C	C
S	C	C	C

REQUIRED SEPARATION OF OCCUPANCIES (TABLE 508.4)

OCCUPANCY	REQUIRED RATING	ACTUAL	IBC REFERENCE
B	NO SEPARATION REQUIRED	1-HR	TABLE 508.4
B/S-2	1-HR	1-HR	TABLE 508.4

NETTA ARCHITECTS
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CERTIFICATE OF AUTHORIZATION AC-438

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NJ License No. AI 12541

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These drawings shall be used for the specific project location indicated within the Title Block, and shall not be used at any other location without prior consent from the ARCHITECT.

SHEET CONTENTS:

BUILDING CODE INFORMATION

PROJECT TITLE:

ADDITIONS AND ALTERATIONS
BURLINGTON COUNTY DEPT. OF PUBLIC WORKS
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:
2025.04.25 - ISSUED FOR BID

DATE	REVISIONS	BY	CHKD

Date	04.09.24
Scale	AS SHOWN
Drawn by	MR
Checked by	LU
Job No.	2241869

Drawing No.

A-004

COM*check* Software Version COMcheckWeb

Envelope Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: Warehouse Building
Location: Burlington, New Jersey
Climate Zone: 4a
Project Type: Addition
Vertical Glazing / Wall Area: 6%
All Electric: false
Is Renewable: false
Has Battery: false
Has Charger: false
Has Heat Pump: true

Construction Site:
10 Hartford Road
Delran, New Jersey 08075

Owner/Agent:
Burlington County Department of Public Works
10 Hartford Road
Delran Township, New Jersey 08075

Designer/Contractor:
Larry Uher
Netta Architects
1084 West Route 22
Mountainside, New Jersey 07092
973-379-0006
luher@nettaarchitects.com

Efficiency Packages

Description	Credit

Building Area	Floor Area
1-Office (Office) : Nonresidential	1800

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Roof: Roof, [Bldg. Use 1 - Office]	1800	---	33.5	0.029	0.032
Floor: Floor, Vertical 3 ft., [Bldg. Use 1 - Office] (c)	153	---	10.0	0.510	0.520
NORTH Entrance Wall: Entrance Wall, Single Layer Mineral Fiber (compressed at girt), [Bldg. Use 1 - Office]	890	19.0	23.0	0.034	0.052
Door: , Swinging, [Bldg. Use 1 - Office]	21	---	---	0.360	0.370
Lab Window 1 of 3: , Perf. Specs.: Product ID Kawneer Nx-3500 with solarban 60, SHGC 0.33, [Bldg. Use 1 - Office] (b)	17	---	---	0.470	0.450

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Lab Window 1 of 3 1: , Perf. Specs.: Product ID Kawneer Nx-3500 with solarban 60, SHGC 0.33, [Bldg. Use 1 - Office] (b)	17	---	---	0.470	0.450
Lab Window 1 of 3 2: , Perf. Specs.: Product ID Kawneer Nx-3500 with solarban 60, SHGC 0.33, [Bldg. Use 1 - Office] (b)	17	---	---	0.470	0.450
Office 01 Window: , Perf. Specs.: Product ID Kawneer Nx-3500 with solarban 60, SHGC 0.33, [Bldg. Use 1 - Office] (b)	17	---	---	0.470	0.450
EAST East Wall: East Wall, Single Layer Mineral Fiber (compressed at girt), [Bldg. Use 1 - Office]	380	19.0	23.0	0.034	0.052
WEST West Wall: West Wall, Single Layer Mineral Fiber (compressed at girt), [Bldg. Use 1 - Office]	380	19.0	23.0	0.034	0.052
Office 02 Window 1: , Perf. Specs.: Product ID Kawneer Nx-3500 with solarban 60, SHGC 0.33, [Bldg. Use 1 - Office] (b)	17	---	---	0.470	0.450
Office 01 Window 2: , Perf. Specs.: Product ID Kawneer Nx-3500 with solarban 60, SHGC 0.33, [Bldg. Use 1 - Office] (b)	17	---	---	0.470	0.450

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Envelope PASSES: Design 13% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design 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 2021 IECC requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

COM*check* Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: Warehouse Building
Project Type: Addition

Construction Site:
10 Hartford Road
Delran, New Jersey 08075

Owner/Agent:
Burlington County Department of Public Works
10 Hartford Road
Delran Township, New Jersey 08075

Designer/Contractor:
Larry Uher
Netta Architects
1084 West Route 22
Mountainside, New Jersey 07092
973-379-0006
luher@nettaarchitects.com

Efficiency Packages

Description	Credit

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Lab (Common Space Types:Laboratory For Medical/Industrial/Research)	395	1.33	525
2-Lobby & Hallway (Common Space Types:Lobby - General)	552	0.84	464
3-Office - 01 (Common Space Types:Office - Enclosed)	133	0.74	98
4-Office - 02 (Common Space Types:Office - Enclosed)	133	0.74	98
5-Men Locker Rm (Common Space Types:Locker Room)	156	0.52	81
6-Women Locker Rm (Common Space Types:Locker Room)	81	0.52	42
7-Unisex Bathrm 104 (Common Space Types:Restrooms)	48	0.63	30
8-Unisex Bathrm 105 (Common Space Types:Restrooms)	48	0.63	30
		Total Allowed Watts =	1370

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-Lab (Common Space Types:Laboratory For Medical/Industrial/Research)				
2x4: 2x4: LED:	0	7	33	233
2-Lobby & Hallway (Common Space Types:Lobby - General)				
2x4: 2x4: LED:	0	6	33	200
2x2: 2x2: LED:	0	5	23	117
3-Office - 01 (Common Space Types:Office - Enclosed)				
2x4: 2x4: LED:	0	2	33	67
4-Office - 02 (Common Space Types:Office - Enclosed)				
2x2: 2x2: LED:	0	4	23	93
5-Men Locker Rm (Common Space Types:Locker Room)				

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
2x4: 2x4: LED:	0	2	33	67
6-Women Locker Rm (Common Space Types:Locker Room)				
2x4: 2x4: LED:	0	1	33	33
7-Unisex Bathrm 104 (Common Space Types:Restrooms)				
2x4: 2x4: LED:	0	1	33	33
8-Unisex Bathrm 105 (Common Space Types:Restrooms)				
2x4: 2x4: LED:	0	1	33	33
			Total Proposed Watts =	876

Proposed Interior Lighting Controls

Fixture	Lighting Control
1-Lab (Common Space Types:Laboratory For Medical/Industrial/Research)	
2x4: 2x4: LED:	Occupancy Sensor, Manual Control
2-Lobby & Hallway (Common Space Types:Lobby - General)	
2x4: 2x4: LED:	Occupancy Sensor, Manual Control
2x2: 2x2: LED:	Occupancy Sensor, Manual Control
3-Office - 01 (Common Space Types:Office - Enclosed)	
2x4: 2x4: LED:	Occupancy Sensor, Manual Control
4-Office - 02 (Common Space Types:Office - Enclosed)	
2x2: 2x2: LED:	Occupancy Sensor, Manual Control
5-Men Locker Rm (Common Space Types:Locker Room)	
2x4: 2x4: LED:	Occupancy Sensor, Manual Control
6-Women Locker Rm (Common Space Types:Locker Room)	
2x4: 2x4: LED:	Occupancy Sensor, Manual Control
7-Unisex Bathrm 104 (Common Space Types:Restrooms)	
2x4: 2x4: LED:	Occupancy Sensor, Manual Control
8-Unisex Bathrm 105 (Common Space Types:Restrooms)	
2x4: 2x4: LED:	Occupancy Sensor, Manual Control

Interior Lighting PASSES: Design 36% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design 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 2021 IECC requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

COM*check* Software Version COMcheckWeb

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: Warehouse Building
Project Type: Addition
Exterior Lighting Zone 3 (Other (LZ3))

Construction Site:
10 Hartford Road
Delran, New Jersey 08075

Owner/Agent:
Burlington County Department of Public Works
10 Hartford Road
Delran Township, New Jersey 08075

Designer/Contractor:
Larry Uher
Netta Architects
1084 West Route 22
Mountainside, New Jersey 07092
973-379-0006
luher@nettaarchitects.com

Efficiency Packages

Description	Credit

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Entry Facade Lighting (Illuminated area of facade wall or surface)	6 ft2	0.11	No	1
			Total Tradable Watts (a) =	0
			Base Site Allowance (b) =	500
			Total Allowed Watts =	1

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A base site allowance equal to 500 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 Fixture	D Fixture Watt.	E (C X D)
Entry Facade Lighting (Illuminated area of facade wall or surface, 6 ft2): Non-tradable Wattage				
Exterior Sconce: Exterior Sconce: LED:	0	6	34	204
			Total Tradable Proposed Watts =	0

Proposed Exterior Lighting Controls

Fixture	Lighting Control
Entry Facade Lighting (Illuminated area of facade wall or surface, 6 ft2): Non-tradable Wattage	
Exterior Sconce: Exterior Sconce: LED:	Daylight Shutoff, Facade or Landscape

Exterior Lighting PASSES: Design 0.0% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design 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 2021 IECC requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

COM*check* Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: Warehouse Building
Location: Burlington, New Jersey
Climate Zone: 4a
Project Type: Addition

Construction Site:
10 Hartford Road
Delran, New Jersey 08075

Owner/Agent:
Burlington County Department of Public Works
10 Hartford Road
Delran Township, New Jersey 08075

Designer/Contractor:
Larry Uher
Netta Architects
1084 West Route 22
Mountainside, New Jersey 07092
973-379-0006
luher@nettaarchitects.com

Efficiency Packages

Description	Credit

Mechanical Systems List

Quantity	System Type & Description
2	TRANE NTXWPH06B112AA (Single Zone): Split System Heat Pump Heating Mode: Capacity = 14 kBtu/h, Proposed Efficiency = 11.90 HSPF2, Required Efficiency = 7.50 HSPF2 Cooling Mode: Capacity = 9 kBtu/h, Proposed Efficiency = 32.20 SEER2, Required Efficiency = 14.30 SEER2 Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design 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 2021 IECC requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

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CERTIFICATE OF AUTHORIZATION AC-438

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These drawings shall be used for the specific project location indicated within the Title Block, and shall not be used at any other location without prior consent from the ARCHITECT.

SHEET CONTENTS:

BUILDING COMPLIANCE INFORMATION

PROJECT TITLE:

ADDITIONS AND ALTERATIONS
BURLINGTON COUNTY DEPT. OF PUBLIC WORKS
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:

2025.04.25 – ISSUED FOR BID

DATE	REVISIONS	BY	CHKD

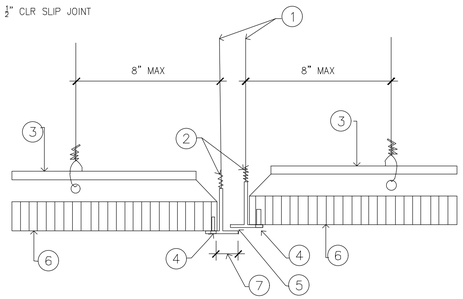
Date	04.09.24
Scale	AS SHOWN
Drawn by	MR
Checked by	LU
Job No.	2241869

Drawing No.

A-005

KEYNOTES:

1. HANGER WIRE, 12 GA.
2. MAIN RUNNER (TEE). CONT. SPLICE ALL JOINTS
3. CROSS RUNNER (TEE), TYP.
4. POP RIVET EA. CROSS TEE
5. NO PHYSICAL CONNECTION
6. AC TILE, TYP.
7. ¾" CLR SLIP JOINT



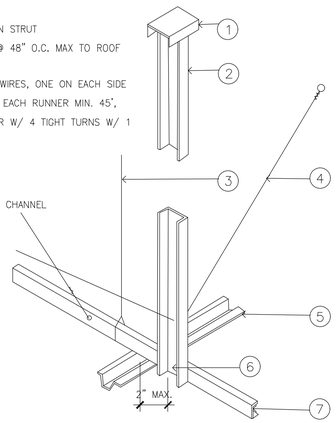
NOTE: FOR AREAS EXCEEDING 1000 SQ. FT. HORIZONTAL RESTRAINTS OF THE CEILING TO THE STRUCTURAL SYSTEM SHALL BE PROVIDED. ASCE 7 SECS 13.5.6.2.2. FOR CEILING AREAS EXCEEDING 2500 SQ. FT. A SEISMIC SPERATION JOINT OR FULL HEIGHT PARTITION THAT BREAKS THE CEILING UP INTO AREAS NOT EXCEEDING 2500 SQ. FT. SHALL BE PROVIDED UNLESS STRUCTURAL ANALYSIS PERFORMED BY AN ENGINEER OR ARCHITECT LISCENSED BY THE STATE OF CALIFORNIA OF THE CEILING BRACING SYSTEM PLEASE SEE ASCE 7-05 SEC. 13.5.6.2.1 (D) FOR THE ANALYSIS CRITERIA

12 / G-001 SUSPENDED ACT SLIP JOINT DETAIL

Scale: NTS

KEYNOTES:

1. RUNNER STUD.
2. 3 ⅝", 20 GA. MIN. COMPRESSION STRUT
3. 8 GA. VERTICAL HANGER WIRE @ 48" O.C. MAX TO ROOF ABOVE
4. (4) 12 GA. DIAGONAL BRACING WIRES, ONE ON EACH SIDE OF STRUT, SPLAY IN PLANE OF EACH RUNNER MIN. 45°, SECURE WIRES TO MAIN RUNNER W/ 4 TIGHT TURNS W/ 1 ½" EACH SIDE.
5. ⅞" FURRING CHANNEL
6. ¼" DIA. BOLT.
7. 1 ½" HAT ROLLED MAIN RUNNER CHANNEL

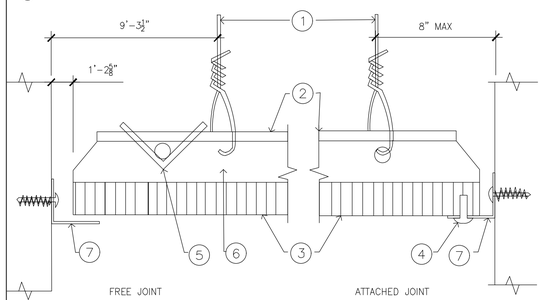


8 / G-001 TYP. GYP. BD. CLG. COMPRESSION STRUT

Scale: NTS

KEYNOTES:

1. 12 GA. CROSS RUNNER
2. MAIN OR CROSS RUNNER
3. CEILING PANEL
4. STEEP POP RIVET @ ATTACHED SIDE ONLY
5. CONT. SLOTTED ANGLE STRUIT W/ HORIZ. 6d RINGSHANK NAIL
6. ALTERNATIVE STRUT SPACER TO PREVENT LATERAL SPREADING
7. 1"X1" 24 GA. CONT. METAL ANGLE TRIM



4 / G-001 CEILING PERIMETER DETAIL-ACT

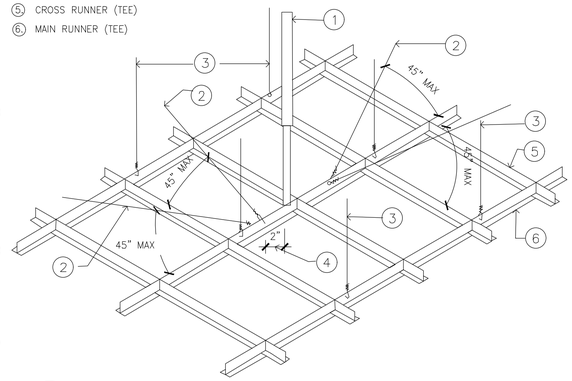
Scale: NTS

G-001 / G-003 TYP. SUSPENDED GYP. BD. CEILING

Scale: NTS

KEYNOTES:

1. VERTICAL COMPRESSION STRUT, 12'-0" O.C. EACH WAY, REFER TO DETAIL 2/A-8.1
2. 12 GA. BRACING WIRE W/ MIN. 4 TIGHT TURNS IN 1 ½" BOTH ENDS OF WIRE-CONNECTO TO MAIN RUNNER
3. 12 GA. VERTICAL HANGER WIRE AT 4'-0" EACH WAY WITH MIN. 3 TIGHT TURNS IN 3" BOTH ENDS TYP.
4. 2" MAX. FROM BRACING WIRES TO COMPRESSION STRUT
5. CROSS RUNNER (TEE)
6. MAIN RUNNER (TEE)

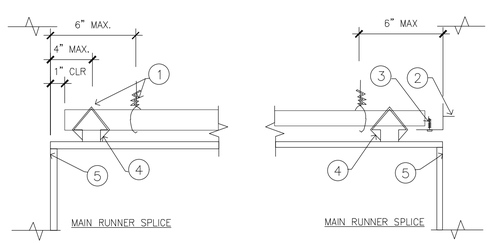


7 / G-001 TYPICAL CEILING SEISMIC BRACING

Scale: NTS

KEYNOTES:

1. SADDLE TIES PER CC2.32
2. #10 SMS. @ EA. STUD OR INTO 16 GA. BACKING
3. #10 SMS. @ EA. MAIN RUNNER
4. FURRING CHANNEL
5. 2"X2" 20 GA. CONT. ANGLE @ PERIMETER TYP.

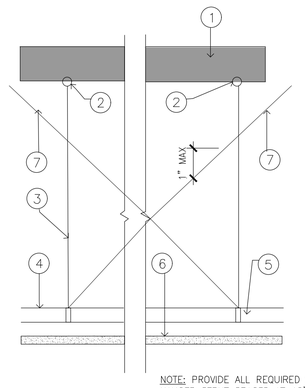


3 / G-001 CEILING PERIMETER DETAIL-GYP

Scale: NTS

KEYNOTES:

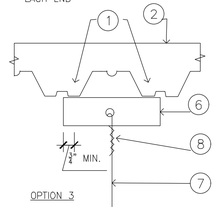
1. EXISTING METAL DECK SUPPORTED BY (E) STEEL TRUSSES AND (E) STEEL COLUMNS
2. CEILING WIRE CLIPS SCREWED TO SIDE OF BOTTOM METAL DECK FLUTE, HILTI OR APPROVED EQUAL.
3. #8 HANGER WIRE @ 4'-0" O.C. (MAX)
4. 1-1/2" CARRYING CHANNELS @ 4'-0" O.C. (MAX). PER CURRENT
5. 7/8" FURRING CHANNELS @ 2'-0" O.C. (MAX).
6. 5/8" TYPE 'X' GYP. BD., PAINT.
7. 8 GA WIRE AT ANGLE NOTED PER PLAN AT 4'-0" O.C. MAX. IN EACH DIRECTION.



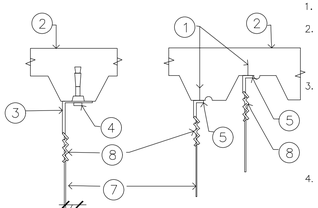
NOTE: PROVIDE ALL REQUIRED SEISMIC BRACING USING HANGER STRUT SPACED AT 12'-0" O.C. AT 6'-0" MAX FROM WALLS

KEYNOTES:

1. POWDER-ACTUATED FASTENERS
2. EXISTING CONCRETE OVER METAL DECK
3. 12GA. X 1" WIDE CEILING CLIP MIN.
4. ⅜" DIA. EXPANSION ANCHORS
5. 12GA. X ¾" WIDE CEILING CLIP
6. L 1 ½" X 1 ½" X 12GA. OR 162T125-16
7. #12 GAGE HANGER WIRE, ASTM A641 WITH CLASS 1 COATING
8. 3 TURNS @ HANGER WIRE TYPICAL @ EACH END



OPTION 3



OPTION 1 OPTION 2

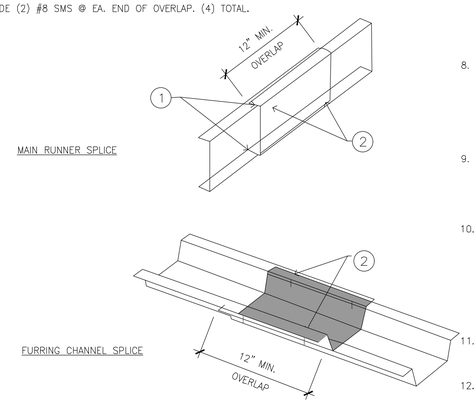
GENERAL CLG FRAMING NOTE: CEILING UNISTRUT SUPPORT SYSTEM WILL BE REQ'D IF DIRECT ATTACHMENT TO DECK IS NOT ALLOWED BY CODE OR BY LANDLORD. COMPLETE UNISTRUT SYSTEM INCLUDING ALL SUPPORT & HANGING RODS FROM APPROVED STRUCTURAL MEMBERS. G.C. SHALL SUBMIT COMPLETE SYSTEM SHOP DRAWINGS & STRUCTERAL CALCULATIONS STAMPED BY LICENSED STRUCTURAL ENGINEER FOR REVIEW, MUST INCLUDE COMPLETE SYSTEM DETAILS.

G-001 / G-003 HANGER WIRE - CONCRETE OVER METAL DECK

Scale: NTS

KEYNOTES:

1. ½" INTERLOCK FLANGES
2. PROVIDE (2) #8 SMS @ EA. END OF OVERLAP. (4) TOTAL.



MAIN RUNNER SPLICE

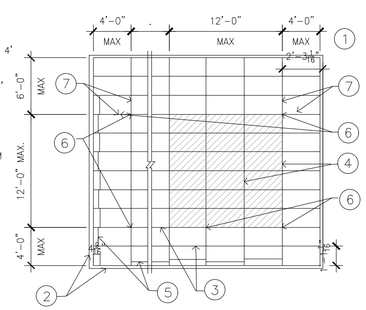
FURRING CHANNEL SPLICE

6 / G-001 SPLICE DETAILS

Scale: NTS

KEYNOTES:

1. FIXED (ATTACHED) JOINT
2. EXPANSION (FREE) JOINT
3. CROSS RUNNER (TEE), @ 4' OC. MAX. TYP.
4. MAIN RUNNER (TEE), @ 4' OC. MAX., TYP.
5. STABILIZER BARS & CROSS TEES END SUPPORTS, 8" MAX. FROM WALL AT UNATTCHED WALLS.
6. COMPRESSION STRUT
7. BRACING WIRE LOCATION TYP.



NOTES:

- THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NO LESS THAN 2". IN EACH ORTHOGONAL HORIZONTAL DIRECTION ONE END OF THE CEILING GRID SHALL BE ATTACHED TO THE CLOSURE ANGLE. THE OTHER END IN EACH HORIZONTAL DIRECTION SHALL HAVE A ¾" CLEARANCE FROM THE WALL & SHALL REST UPON & BE FREE TO SLIDE ON A CLOSURE ANGLE.

- BRACING WIRES & COMPRESSION STRUT SHALL OCCUR EVERY:
  1. 64 SQ. FT. MAX. ON ROOMS OVER 64 SQ. FT.
  2. 96 SQ. FT. MAX. ON ROOMS OVER 96 SQ. FT.
  3. 144 SQ. FT. MAX. ON ROOMS OVER 96 SQ. FT.

2 / G-001 SUSPENDED ACT CEILING FRAMING DTL.

Scale: NTS

SUPPORTING LATERAL LOADS WILL REQUIRE SPECIAL DESIGN DETAILS. THE FOLLOWING NOTES APPLY FOR CEILING SYSTEM WHOSE TOTAL WEIGHT INCLUDING AIR CONDITIONING GRILLS & LIGHT FIXTURES DOES NOT EXCEED 4 PSF.

1. PROVIDE HEAVY DUTY T-BAR GRID SYSTEM
2. 12GA MIN. HANGER WIRES MAY BE USED FOR UP TO & INCLUDING 48"X48" GRID SPACING. SPLICES WILL NOT BE PERMITTED IN ANY HANGER WIRES UNLESS SPECIFICALLY APPROVED
3. 12GA HANGER WIRES AT THE ENDS OF ALL MAIN & CROSS RUNNERS WITH 8" FROM THE SUPPORT OR WITHIN ¼ OF THE LENGTH OF THE END TEE WHICHEVER IS LEAS AT THE PERIMETER OF THE CLG AREA. END CONNECTIONS FOR RUNNERS WHICH ARE DETAILED TO RESIST THE APPLIED HORIZONTAL FORCES MAY BE USED IN LIEU OF THE 12GA HANGER WIRES
4. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS TO OBSTRUCTIONS TO MAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQ'D @ ALL CLG. BREAKS, SOFFITS OR DISCONTINUOUS AREAS. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB ARE TO HAVE COUNTER-SLOPING WIRES. IN OBSTRUCTIONS TO DIRECT SUSPENSION, A TRAPEZE OR EQUIVALENT DEVICE SHOULD BE USED. FOR TRAPEZE SPANS O/ 48", USE BACK-TO-BACK 1¼" COLD-ROLLED CHANNELS (OR EQUIVALENT) MIN.
5. CLG. GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN 2 ADJACENT WALLS. CLG. GRID MEMBERS SHOULD AT LEAST ½" FREE OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CLG. GRID SYSTEM RUNNERS, ONE END OF MAIN & CROSS RUNNERS SHOULD BE FREE & A MIN. OF ½" CLR. OR WALL.
6. AT THE PERIMETER OF THE CLG. AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A MTL. STRUT OR A 16GA. WIRE W/ A POSITIVE MACHANICAL CONNECTION TO THE RUNNER MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS 12" OR LESS, THIS INTERLOCK ISN'T REQ'D
7. PROVIDE SETS 4-10 GA. SPLAYED BRACING WIRES ORIENTED 90 DIGRESS FROM EACH OTHER AT THE FOLLOWING SPACING: A. PLACE SETS OF SPLAYED WIRES AT A SPACING NOT MORE THAN 8' X 12' O.C. B. PROVIDE BRACING WIRES AT LOCATIONS NOT MORE THAN ½ THE SPACING GIVEN IN (A) ABOVE FROM EA. PERIMETER WALL & @ THE EDGE OF VERTICAL CLG. OFFSETS. THE SLOPE OF THESE WIRES SHOULD NOT EXCEED 45 DEGREES FROM THE CLG. TO LIFT. SPLICES IN BRACING WIRES ARE NOT PERMITTED. C. PROVIDE STUD UPLIFT STRUT AT EA. BRACING LOCATION AS INDICATED BY DETAILS.
8. FASTEN HANGER WIRE W/ NOT LESS THEN 3 TIGHT TURNS. FASTEN SPLAY WIRES W/ 4 TIGHT TURNS, MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 12" HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHALL BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING THE WIRE
9. SEPARATE ALL CLG. HANGING & BRACING WIRES AT LEAST 6" FROM ALL UNBRACED DUCTS, PIPES, CONDUITS, ETC. IT IS ACCEPTABLE TO ATTACH LIGHTWEIGHT ITEMS, SUCH AS SINGLE ELEC. CONDUIT NOT EXCEEDING ½" NOMINAL DIA. TO HANGER WIRES
10. WHEN DRILLED-IN CONC. ANCHORS OR SHOT-IN ANCHORS ARE USED IN REINFORCED CONC. FOR HANGER WIRES, 1 OUT OF 10 MUST FIELD TESTED FOR 200 LBS OF TENSION. WHEN DRILLED-IN CONC. ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 MUST BE TESTED FOR 440 LBS OF TENSION. SHOT-IN ANCHORS IN CONC. ARE NOT PERMITTED FOR BRACING WIRES, IF ANY SHOT-IN OR DRILLED-IN ANCHORS FAIL, ALL ADJACENT ANCHORS MUST BE TESTED
11. ATTACH ALL LIGHT FIXTURES TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES
12. FLUSH OR RECESSED LIGHT FIXTURES & AIR TERMINALS OR SERVICES WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF THE HEAVY DUTY GRID SYSTEM. IN ADDITION, THEY MUST HAVE A MIN. OF (2)-12GA. SLACK SAFETY WIRES ATTACHED TO THE FIXTURES AT DIAGONAL CORNERS & ANCHORED TO THE STRUCTURE ABOVE. ALL 48" X 48" LIGHT FIXTURES MUST HAVE SLACK SAFETY WIRES AT EA. CORNER. CONNECT WIRES PER NOTE 7.
13. ALL FLUSHED OR RECESSED LIGHT FIXTURES & AIR TERMINALS OR SERVICES WEIGHING 56 POUNDS OR MORE MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN 4 TUAT 12 GA. WIRES. EACH ATTACHED TO THE FIXTURE TO THE STRUCTURE ABOVE, & CAPABLE OF SUPPORTING 4 TIMES THE WEIGHT OF THE UNIT. CONNECT WIRES PER NOTE 7.
14. SUPPORT SURFACE MOUNTED LIGHT FIXTURES BY AT LEAST 2 POSITIVE DEVICES WHICH SURROUND THE CEILING RUNNER & WHICH ARE EACH SUPPORTED FROM THE STRUCTURE ABOVE BY A 12 GA. WIRE. SPRING CLIPS OR CLAMPS THAT CONNECT ONLY TO THE RUNNER ARE NOT ACCEPTABLE. PROVIDE 2 ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE 8' OR LONGER. CONNECT WIRE PER NOTE 7.
15. SUPPORT PENDANT MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER & CAPABLE OF SUPPORTING 4 TIMES THE WEIGHT OF THE FIXTURE. CONNECT WIRE PER NOTE 7.
16. ACOUSTICAL MATERIALS SHALL COMPLY WITH THE INTERIOR FINISH REQUIREMENTS OF SEC. 803 2006 IBC: THEY SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
17. SEISMIC BRACING:

HORIZONTAL RESTRAINTS

A. FOUR #10 GA. WIRES SPLAYED 90 DEGREES FROM EA. OTHER ON THE MAIN RUNNER WITH 2" OF THE CROSS RUNNER
B. THE ANGLE OF THE WIRES SHALL NOT EXCEED 45 DEGREES FROM THE PLAN OF THE CEILING
C. THE SPACING SHALL BE 12'-0" O.C. IN BOTH DIRECTIONS
D. THE SPACING OF THE FIRST POINT STARTS WITHIN 6'-0" FROM EACH WALL

VERTICAL RESTRAINTS

A. A STRUT TO RESIST VERTICAL DISPLACEMENT IS REQUIRED AT EACH SEISMIC SPLAY. THE STRUT SHOULD EXTEND FROM THE GRID TO THE STRUCTURE ABOVE & BE FASTENED AT BOTH ENDS

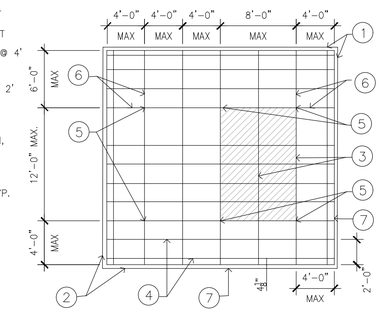
18. LATERAL FORCE BRACING IN NOT REQUIRED IF A CEILING AREA OF 144 SF OR LESS IS SURROUNDED BY WALLS WHICH CONNECT DIRECTLY TO THE STRUCTURE ABOVE
19. CEILING MOUNTED AIR TERMINALS OR SERVICES WEIGHING LESS THAN 20 POUNDS SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION MAIN RUNNERS OR TO CROSS RUNNERS
20. TERMINAL OR SERVICES WEIGHING 20 POUNDS, BUT NOT MORE THAN 56 POUNDS, IN ADDITION TO THE ABOVE, SHALL HAVE (2) #12 GA. WIRE HANGERS CONNECTED FROM THE TERMINAL OR SERVICE TO THE CLG. SYSTEM HANGERS OR TO THE STRUCTURE ABOVE. THESE WIRES MAY BE SLACK
21. THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL NOT BE LESS THEN 2". ONE END OF THE CEILING GRID (IN EACH ORTHOGONAL HORIZONTAL DIRECTION) SHALL BE ATTACHED TO THE CLOSURE ANGLE. THE END (IN EACH HORIZONTAL DIRECTION) SHALL HAVE A 0.75" CLEARANCE FROM THE WALL & SHALL REST UPON, & BE FREE TO SLIDE ON, A CLOSURE ANGLE.
22. PER 2018 IBC AND ASCE/SEI 7-10, SEC 13.5.6.2.2, EXCEPT WHERE RIGID BRACES ARE USE TO LIMIT LATERAL DEFLECTIONS, AT SPRINKLER HEADS AND OTHER PENETRATIONS, PROVIDE A 2" OVERSIZE RING SLEEVE, OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FOR FREE MOVEMENT OF AT LEAST 1" IN ALL HORIZ DIRECTIONS IS PERMITTED TO BE PROVIDED AT THE TOP OF THE SPRINKLE HEAD EXTENSION

5 / G-001 ACOUSTICAL CEILING NOTES

Scale: NTS

KEYNOTES:

1. FIXED (ATTACHED) JOINT
2. EXPANSION (FREE) JOINT
3. CROSS RUNNER (TEE), @ 4' OC. MAX. TYP.
4. COMPRESSION STRUT @ 2' OC. MAX., TYP.
5. COMPRESSION STRUT
6. BRACING WIRE LOCATION, TYP.
7. 2"x2" 20 GA CONT. ANGLE @ PERIMETER TYP.



NOTES:

- THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NO LESS THAN 2". IN EACH ORTHOGONAL HORIZONTAL DIRECTION ONE END OF THE CEILING GRID SHALL BE ATTACHED TO THE CLOSURE ANGLE. THE OTHER END IN EACH HORIZONTAL DIRECTION SHALL HAVE A ¾" CLEARANCE FROM THE WALL & SHALL REST UPON & BE FREE TO SLIDE ON A CLOSURE ANGLE.

- BRACING WIRES & COMPRESSION STRUT SHALL OCCUR EVERY:
  1. 64 SQ. FT. MAX. ON ROOMS OVER 64 SQ. FT.
  2. 96 SQ. FT. MAX. ON ROOMS OVER 96 SQ. FT.
  3. 144 SQ. FT. MAX. ON ROOMS OVER 96 SQ. FT.

1 / G-001 GYPSUM BOARD CEILING FRAMING DTL.

Scale: NTS

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CERTIFICATE OF AUTHORIZATION AC-438

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SHEET CONTENTS:

TYPICAL CEILING DETAILS

PROJECT TITLE:

ADDITIONS AND ALTERATIONS
BURLINGTON COUNTY DEPT. OF PUBLIC WORKS
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:

2025.04.25 - ISSUED FOR BID

DATE	REVISIONS	BY	CHKD

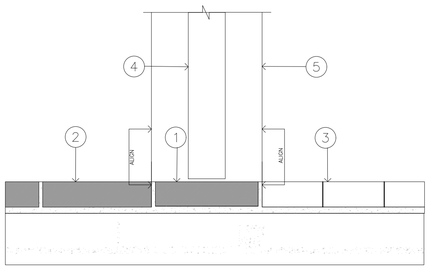
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Drawn by	MR
Checked by	LU
Job No.	2241869

Drawing No.

G-001

KEYNOTES:

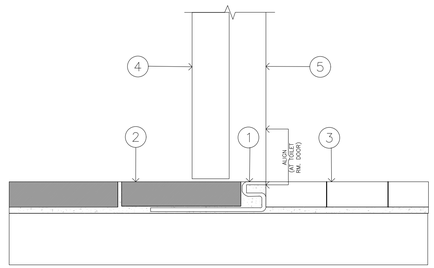
1. NEW STONE SADDLE PER FINISH SCHEDULE, INSURE FLUSH AND LEVEL TRANSITION, GC. TO USE THE APPROPRIATE PROFILE LENGTH/HEIGHT TO MATCH AND ACCOMMODATE TILE THICKNESS
2. ENTRY/VESTIBULE/BOH FLOOR TILE PER FINISH SCHEDULE
3. CONCOURSE FLOOR TILE OR TOILET FLOOR TILE PER FINISH SCHEDULE
4. TOILET ROOM/STORE ENTRY DOOR WHERE IT OCCUR
5. DOOR FRAME



7 G-002 TRANSITION TILE TO SADDLE TO TILE STRIP DTL.
Scale: NTS

KEYNOTES:

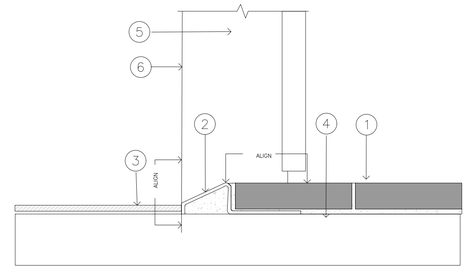
1. SCHLUTER (DECO-E). STAINLESS STEEL-304 TRANSITION STRIP, INSURE FLUSH AND LEVEL TRANSITION, GC. TO USE THE APPROPRIATE PROFILE LENGTH/HEIGHT TO MATCH AND ACCOMMODATE TILE THICKNESS
2. ENTRY OR VESTIBULE FLOOR TILE PER FINISH SCHEDULE
3. MALL FLOOR TILE OR TOILET FLOOR TILE PER FINISH SCHEDULE
4. TOILET ROOM/STORE ENTRY DOOR WHERE IT OCCUR
5. DOOR FRAME



6 G-002 TRANSITION TILE TO TILE STRIP DETAIL
Scale: NTS

KEYNOTES:

1. TILE FLOORING, PER FINSH SCHEDULE.
2. SCHLUTER (RENO-U), STAINLESS STEEL-304 TRANSITION STRIP, INSURE USING THE APPROPRIATE PROFILE LENGTH/HEIGHT TO MATCH AND ACCOMODATE TILE THICKNESS AND ADA. REQUIREMENT
3. VCT FLOORING PER FINSH SCHEDULE
4. EXISTING CONCRETE SLAB
5. DOOR
6. DOOR FRAME

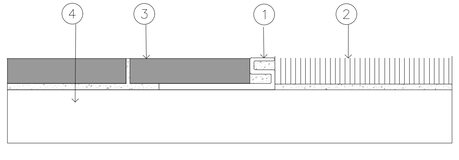


5 G-002 TRANSITION VCT TO TILE STRIP DTL.
Scale: NTS

KEYNOTES:

1. SCHLUTER (DECO-E), STAINLESS STEEL-304 TRANSITION STRIP, INSURE FLUSH AND LEVEL TRANSITION, GC. TO USE THE APPROPRIATE PROFILE LENGTH/HEIGHT TO MATCH AND ACCOMODATE TILE THICKNESS
2. FLOOR CARPET PER FINISH SCHEDULE
3. RETAIL FLOOR TILE PER FINSH SCHEDULE OVER THINSET
4. EXISTING CONCRETE SLAB

NOTES:
1. MITER ALL CORNERS
2. SUBMIT SAMPLES TO ARCHITECT FOR REVIEW

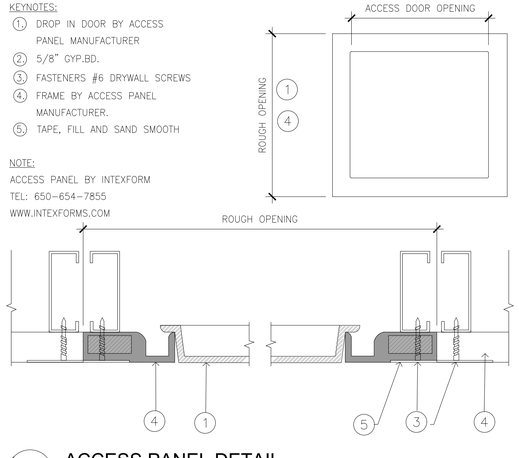


4 G-002 TRANSITION TILE TO CARPET STRIP DETAIL
Scale: NTS

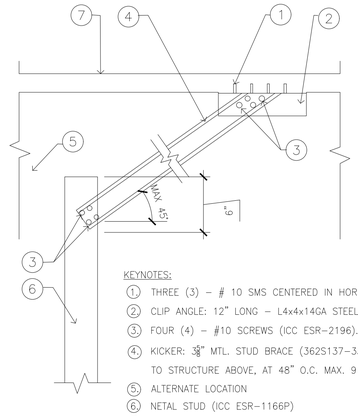
KEYNOTES:

1. DROP IN DOOR BY ACCESS PANEL MANUFACTURER
2. 5/8" GYP.BD.
3. FASTENERS #6 DRYWALL SCREWS
4. FRAME BY ACCESS PANEL MANUFACTURER.
5. TAPE, FILL AND SAND SMOOTH

NOTE:
ACCESS PANEL BY INTEXFORM
TEL: 650-654-7855
WWW.INTEXFORMS.COM



3 G-002 ACCESS PANEL DETAIL
Scale: NTS

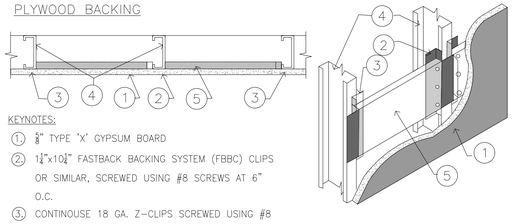


KEYNOTES:

1. THREE (3) - # 10 SMS CENTERED IN HORIZONTAL SLOTS
2. CLIP ANGLE: 12" LONG - L4x4x14GA STEEL ANGLE
3. FOUR (4) - #10 SCREWS (ICC ESR-2196).
4. KICKER: 3/8" MTL. STUD BRACE (362S137-33)., (ESR-3064P)., TO STRUCTURE ABOVE, AT 48" O.C. MAX. 9 FT MAX LENGTH.
5. ALTERNATE LOCATION
6. NETAL STUD (ICC ESR-1166P)
7. EXISTING DECK, REFER TO STRUCTURE DWGS.

2 G-002 DIAGONAL BRACING
Scale: NTS

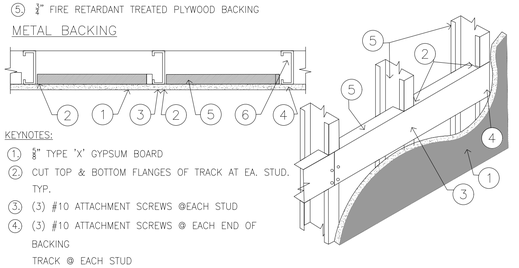
PLYWOOD BACKING



KEYNOTES:

1. 5/8" TYPE 'X' GYPSUM BOARD
2. 1 5/8"x10 1/2" FASTBACK BACKING SYSTEM (FBBC) CLIPS OR SIMILAR, SCREWED USING #8 SCREWS AT 6" O.C.
3. CONTINOUSE 18 GA. Z-CLIPS SCREWED USING #8 SCREWS (USE AT BLOCKING THERMINATION ONLY)
4. METAL STUD FRAMING, AS NOTED IN PLANS.
5. 1/2" FIRE RETARDANT TREATED PLYWOOD BACKING

METAL BACKING



KEYNOTES:

1. 5/8" TYPE 'X' GYPSUM BOARD
2. CUT TOP & BOTTOM FLANGES OF TRACK AT EA. STUD. TYP.
3. (3) #10 ATTACHMENT SCREWS @EACH STUD
4. (3) #10 ATTACHMENT SCREWS @ EACH END OF BACKING TRACK @ EACH STUD
5. MIN 6"-18GA UNPLINISHED METAL TRACK BLOCKING, DO NOT CUT FLANGES BETWEEN SUPPORTING STUDS
6. METAL STUDS, PER PLAN

1 G-002 TYPICAL BACKING DETAILS
Scale: NTS

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CERTIFICATE OF AUTHORIZATION AC-438

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SHEET CONTENTS:

TYPICAL DETAILS

PROJECT TITLE:

ADDITIONS AND ALTERATIONS
BURLINGTON COUNTY DEPT. OF PUBLIC WORKS
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

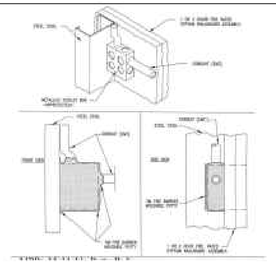
SUBMISSION:
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DATE	REVISIONS	BY	CHKD

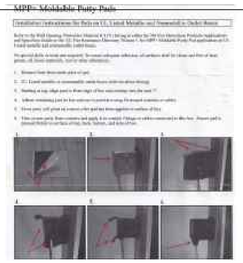
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Scale	AS SHOWN
Drawn by	MR
Checked by	LU
Job No.	2241869

Drawing No.

G-002



INSTALLATION DETAILS



INSTALLATION INSTRUCTIONS



REFERENCE PHOTO - ACTUAL INSTALL

UNDERWRITERS LABORATORIES INC - CLIV.R9700

WALL OPENING PROTECTIVE MATERIAL
FIRE RESISTANCE CLASSIFACATION
3M COMAPNY 3M FIRE PROTECTION PRODUCTS - 3M CENTER, ST. PAUL MN 55144 USA

TYPE MPP+ MOLDABLE PUTTY PADS FOR USE WITH MAX 4-11/16 BY 2-1/8 IN. DEEP FLUSH UNLISTED MATALLIC OUTLET BOXES INSTALLED WITH STELL COVER PLATES FOR USE IN 1 OR 2 HR FIRE RATED GYPSUM BOARD WALL ASSEMBLIES FRAMED WITH MIN 3-1/2 IN. WIDE WOOD OR STEEL STUDS AND CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U300, U400, OR V400 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY.
TYPE MPP+ MOLDABLE PUTTY PADS FOR USE WITH MAX 4-11/16 BY 4-11/16 BY 2 1/8 IN. DEEP FLUSH DEVICE UNLISTED MATALLIC OUTLET BOXES INSTALLED WITH STELL OR PLASTIC COVER PLATES FOR USE IN 1 OR 2 HR FIRE RATED GYPSUM BOARD WALL ASSEMBLES FRAMED WITHIN MIN 5-1/2 IN. WIDE WOOD OR STEEL STUDS AND CONSTUCTED AS SPECIFIC IN THE INDIVIDUAL U300,U400, OR V400 SEREIS WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY. METALLIC OUTLET BOXES TO BE PROVIDED WITH STEEL ATTACHMENT BRACKETS WHICH OFFSET BOX IN 1/4 IN. FROM STUD. PUTTY PAD TO BE AFFIXED TO THE BACK AND ALL FOUR SIDES OF THE BOX. BOXES MAY BE INSTALLED BACK-TO-BACK WITHIN THE STUD CAVITY. WHEN BACK-TO-BACKBOXES ARE INTERCONNECTED, A BALL OF PUTTY IS TO BE INSTALLED TO PLUG THE OPEN END OF EACH ELECTICAL MATALLIC TUBE OR CONDUIT WITH THE OUTLET BOXES.
TYPE MPP+ MOLDABLE PUTTY PADS FOR USE WITH MAX 4 BY 4 BY 2-1/8 IN DEEP FLUSH DEVICE UNLISTED MATTALIC OUTLET BOXES INSTALLED WITH PLASTIC COVER PLATES FOR USE IN 1 OR 2 HOR FIRE RATED GYPSUM BOARD WALL ASSEMBLIES FRAMED WITH MIN 3-1/2 IN. WIDE WOOD OR STEAL STUDS AND CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN HE FRE RESISTANCE DIRECTORY.
TYPE MPP+ MOLDABLE PUTTY PADS FOR USE WITH MAX 14 BY 4 BY 2-1/2 IN. DEEP FLUSH DEVICE UNLISTED MATTALIC OUTLET BOXES INSTALLED WITH STEEL COVER FOR USE 1 OR 2 HR FIRE RATED GYPSUM BOARD WALL ASSEMBLES FRAMED WITH MIN 3--1/2 IN . WIDE STEEL STUDS AND CONSTUCTED AS SPECIFIED IN THE INDIVIDUAL U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY.
TYPE MPP+ MOLDABLE PUTTY PADS FOR USE WITH MAX 14 BY 4 BY 2-1/2 IN. DEEP FLUSH DEVICE UNLISTED NONMATALLIC OUTLET BOEXES MANUFACTURED BY CARLON ELECTRICAL PRODUCTS, MADE OF PVC AND BEARING A 2HR RATING UNDER THE "OUTLET BOXES AND FITTINGS CLASSIFIED FOR FIRE RESISTANCE" CATEGORY IN THE FIRE RESISTANCE DIRECTORY. BOXES INSTALLED WITH STEEL COVER PLATES, FOR USE 1 OR HR RATED GYPSUM BOARD WALL ASSEMBLIES FRAMED WITH MIN 3-1/2 IN. WIDE WOOD STUDS AND CONSTRUCTED AS SPECIFED IN THE INDIVIDUAL U300 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY.
TYPE MPP+ MOLDABLE PUTTY PADS FOR USE WITH MAX 4 BY 3-1/4 BY 3-1/4 IN. DEEP UL LISTED NONMATALLIC OUTLET BOXES MANUFACTURED BY THOMAS & BETTS CORP., MADE OF POLYCARBONATE, TYPE 234 OR MADE OF PHENOLIC, TYPE 1052 AND BEARING A 2 HR RATING UNTHE THE "OUTLET BOES AND FITTINGS CLASSIFIED FOR FIRE RESISTANCE' CATEGORY IN THE FIRE RESISTANCE DIRECTORY. BOXES INSTALLED WITH STEEL COVER PLATES. FOR USE IN 1 HR FIRE RATED GYPSUM BOARD WALL ASSEMBLIES FRAMED WITH MIN 3-1/2 IN. WIDE WOOD STUDS AND CONSTRUCTED AS SPECIFIC IN THE INDIVIDUAL U300 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY.
TYPE MPP+ MOLDABLE PUTTY PADS FOR USE WITH MAX 4 BY 3-3/4 BY 3 IN. DEEP UL LISTED NONMATALLIC OUTLET BOXES MANUFACTURED BY CARLON ELECTRICAL PRODUCTS, MADE OR PVC AND BAERINGS A 2 HR RATING UNDER THE "OUTLET BOXES AND FITTINGS CLASSIFIED FOR FIRE RESISTANCE" CATEGORY IN THE FIRE RESISTANCE DIRECTORY. BOXES INSTALLED WITH PLASTIC COVER PLATES, FOR USE IN 1 HR RATED GYPSUM BOARD WALL ASSEMBLIES FRAMED WITH MIN 3-1/2 IN. WIDE WOOD STUDS AND CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U300 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY.
TYPE MPP+ MOLDABLE PUTTY PADS FOR USE WITH MAX 4 BY 3-3/4 BY 3-3/4 IN. DEEP UL LISTED NONMATALLIC OUTLET BOXES MANUFACTURED BY THOMAS & BETTS CORP., MADE OF PHENOLIC, TYPE 2002-/38-C AND BEARING A 2 HR RATING UNDER THE "OUTLET BOXES AND FITTINGS CLASSIFIED FOR FIRE RESISTANCE" CATEGORY IN THE FIRE RESTANCE DIRECTORY. BOXES INSTALLED WITH STEEL COVER PLATES. FOR USE IN 2 HR FIRE RATED GYPSUM BORED WALL ASSEMEBLIES FROM WITH MN 3-1/2 IN WIDE STEEL STUDS AND CONSTUCTED AS SPECIFIED IN THE INDIVIDUAL U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY.
TYPE MPP+ MOLDABLE PUTTY PADS FOR USE WITH MAX 5 BY 5 BY 1-1/2 IN. DEEP FLUSH DEVICE UL LISTED MATALLIC OUTLET BOXES INSTALLED WITH PLASTIC COVER PLATES FOR USE IN 1 HR FIRE RATED GYPSUM BOARD WALL AND PARTITION IN THE FIRE RESISTANCE DIRECTORY.
TYPE MPP+ MOLDABLE PUTTY PADS FOR USE WITH MAX 5 BY 5 BY 2 7/8 IN. DEEP FLUSH DEVICE UL LISTED MATALLIC OUTLET BOXES OR UL LISTED COMMUNICATIONS-CIRCUT ACCESSORIES MANUFACTURED BY RANDL INDUSTRIES INC. FOR USE IN 1 HR OR 2 HR RATED GYPSUM BOARD WALL ASSEMBLIES FRAMED WITH MIN. 3-5/8 IN. WIDE WOOD OR STEEL STUDS AND CONSTRUCED AS SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY. MATALLIC OUTLET BOXES TO BE PROVIDED WITH UL LISTED SIGNAL APPLIANCE WITH STEEL COVER PLATE MANUFACTURED BY COOPER WHEELOCK INC.
MOLDABLE PUTTY PADS ARE TO BE INSTALLED TO COMPLETELY COVER THE EXTERIOR SURFACES OF THE OUTLET BOX (EXCEPT FOT THE SIDE OF THE OUTLET BOX AGAINST THE STUD UNLESS OTHERWISE NOTED) INCLUDING NAILING TABS AND TO COMPLETLY SEAL AGAINST THE STUD WITHIN THE STUD CAVITY. MULTIPLE MOLDABLE PUTTY PADS MAY BE INSTALLED ON AN OUTLET BOX ATTAIN THE REQUIRED MINIMUM THICKNESS OF PUTTY MATERIAL. ADDITION PUTTY MATERIAL USED TO SEAL AROUND EACH CONDUIT AND/OR CABLE FITTING ON THE EXTERIOR OF EACH BOX. A MIN 1/10 IN. THICKNESS OF PUTTY MATERIAL IS REQUIRED ON THE EXTERIOR SURFACES OF FLUSH DEVICE BOXES IN 1 AND 2 HR FIRE RATED WALL AND PARTITION DESIGNS. WHEN THE MOLDABLE PUTTY PAD OUTLET BOX PROTECTIVE MATERIAL IS USED ON BOXES ON BOTH SIDES OF WALL AS DIRECTED, THE HORIZONTAL SEPERATION BETWEEN OUTLET BOXES ON OPPOSITE SIDES OF THE WALL MAY BE LESS THEN 24 IN. PROVIDED THAT THE OUTLET BOXES ARE NOT INSTALLED BACK TO BACK EXCEPT AS NOTED

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SHEET CONTENTS:

GENERAL NOTES, REQUIREMENTS & GENERAL COND'S

PROJECT TITLE:

ADDITIONS AND ALTERATIONS
BURLINGTON COUNTY DEPT. OF PUBLIC WORKS
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:
2025.04.25 – ISSUED FOR BID

DATE	REVISIONS	BY	CHKD

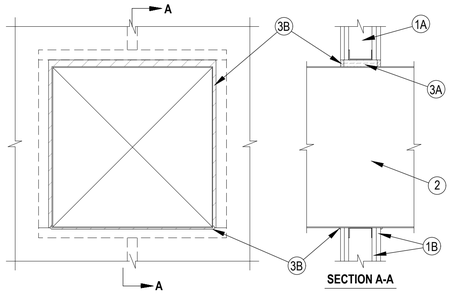
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Checked by	LU
Job No.	2241869

Drawing No.

G-003

System No. W-L-7143

F Ratings -- 1 and 2 Hr (See Items 1 and 2)
T Ratings -- 0 and 1/2 Hr (See Item 1)

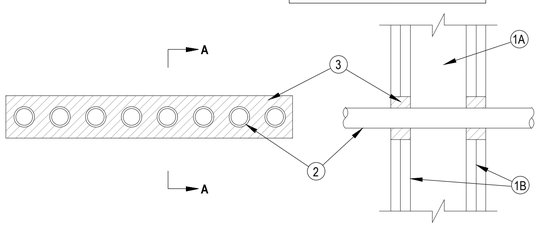


1. Wall Assembly — The 1 and 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing shall consist of min. 3-1/2 in. (89 mm) wide steel channel studs and spaced max 24 in. (610 mm) OC. Additional 3-1/2 in. (89 mm) wide steel studs shall be used to completely frame opening.
   B. Gypsum Board — One or two layers of 5/8 in. (16 mm) thick gypsum board as specified in the individual Wall and Partition Design. Max size of opening is 625 sq in. (4032 cm2) with a max dimension of 25 in. (635 mm). The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed. The hourly T Rating of the firestop system is 1/2 hr for 2 hr fire rated walls and 0 hr for 1 hr fire rated walls.
2. Steel Duct — Nom. 24 in. by 24 in. (610 by 610 mm) (or smaller) No. 24 gauge (or heavier) galv. steel duct to be installed within the firestop system. An annular space of min 1/2 in. (13 mm) to max 1 in. (25 mm) is required within the firestop system. As an option, for systems with a 2 hr F Rating only, the min annular space may be 0 in. (point contact). Steel duct to be rigidly supported on both sides of wall assembly
3. Firestop System — The firestop system shall consist of the following:
   A. Packing Material — Min 3-3/4 in. (95 mm) or 5 in. (127 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form for 1 and 2 hr rated assemblies, respectively. Packing material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.
   B. Fill Void or Cavity Materials* - Sealant — Min 1/2 in. (13 mm) thickness of sealant applied within annulus, flush with both surfaces of wall assembly. Min 1/4 in. (6 mm) diam bead of sealant shall be applied at the duct/gypsum board interface at any point contact location, on both surfaces of wall assembly.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 606 Sealant

*Bearing the UL Classification Mark

System No. W-L-1095

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 1 and 2 Hr (See Item 3)	FT Ratings — 1 and 2 Hr (See Item 3)
L Rating At Ambient - Less Than 1 CFM/sq ft	FH Ratings — 1 and 2 Hr (See Item 1)
L Rating At 400 F - 4 CFM/sq ft	FTH Ratings — 1 and 2 Hr (See Item 3)
	L Rating At Ambient - Less Than 1 CFM/sq ft
	L Rating At 400 F -4 CFM/sq ft



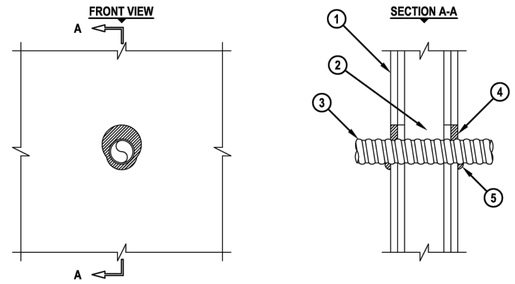
SECTION A-A

1. Wall Assembly — The 1 or 2 h fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max size of opening 2-5/8 in. (67 mm) by 18 in. (457 mm). The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. Electric Metallic Tubing (EMT) — One or more nom 1 in. (25 mm) diam steel electric tubing. The annular space shall be min 1/2 in. (13 mm) to a max 1 in. (25 mm). Conduit to be rigidly supported on both sides of wall assembly.
3. Fill, Void or Cavity Material* — Sealant — For 2 h F Rating, min 1-1/4 in. (32 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. For 1 h F Rating, min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. W-L-1243

3. Fill, Void or Cavity Material* - Sealant — Min 5/8 in. thickness of fill material applied with annulus, flush with both surfaces of the wall. At point contact location between penetrant and gypsum board, a min 1/2 in. bead of fill material shall be applied at the penetrant /gypsum board interface on both sides of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant
   +Bearing the UL Listing Mark
   * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U300 OR U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. [NOT SHOWN] WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
A. MAXIMUM 2" NOMINAL DIAMETER FLEXIBLE ALUMINUM OR STEEL CONDUIT.
B. MAXIMUM 2" NOMINAL DIAMETER FLEXIBLE STEEL GAS PIPING MANUFACTURED BY OMEGA FLEX INC.
C. MAXIMUM 1" NOMINAL DIAMETER FLEXIBLE STEEL GAS PIPING MANUFACTURED BY GASTITE, DIVISION OF TITEFLEX OR WARD MFG. LLC.
4. MINIMUM 5/8" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT.
5. MINIMUM 1/2" BEAD HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES : 1. MAXIMUM DIAMETER OF OPENING = 3-1/2".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1".

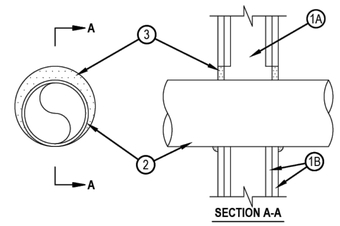
System No. W-L-1054

2. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) . diam steel conduit.
   D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE MAX Intumescent Sealant

Movement Direction	Penetrant Item	Nominal Penetrant Diameter	Annular Space	Movement	Sealant Depth	F-Rating	L Rating with Movement
Y	2A, 2C*	2 in.	Max 2-1/4 in.	5%	5/8 in.	1 hr	N/A
Z	2A, 2C*	2 in.	2-1/4 in.	0.25 in.	5/8 in.	1 hr	N/A

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

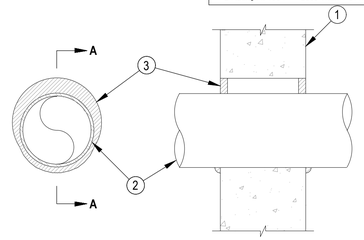
ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings —1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating (Without Movement) at Ambient — Less Than 1 CFM/sq ft	FH Ratings —1 and 2 Hr (See Items 1 and 3)
L Rating (Without Movement) at 400°F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
M Rating (Movement) — See Table 1	FTH Rating — 0 Hr
	L Rating at Ambient — Less Than 5.1 L/s/m2
	L Rating at 204°C — Less Than 5.1 L/s/m2



1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. For M Rating, steel studs to be min 3-5/8 in. (92 mm) wide. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
   B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.
The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly. The M Rating is applicable only to 1 hr rated walls.

System No. W-J-1067

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 1 and2 Hr (See Items 1 and 3)	F Rating — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating At Ambient — Less Than 1 CFM/sq ft	FH Rating — 1 and 2 Hr (See Items 1 and 3)
L Rating At 400 F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
	L Rating At Ambient — Less Than 1 CFM/sq ft
	L Rating At 400 F — Less Than 1 CFM/sq ft



1. Wall Assembly — Min 3-3/4 in. and 5 in. (95 and 127 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete for 1 and 2 h rated assemblies, respectively. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 32-1/4 in. (819 mm).
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through—Penetrants — One metallic pipe, conduit or tubing to be centered within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tube may be installed at an an angle not greater than 45 degrees from perpendicular. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) diam (or smaller) steel conduit.
   D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe-wall interface on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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SHEET CONTENTS:

TYPICAL PENETRATION DETAILS - WALLS

PROJECT TITLE:

ADDITIONS AND ALTERATIONS
BURLINGTON COUNTY DEPT. OF PUBLIC WORKS
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:

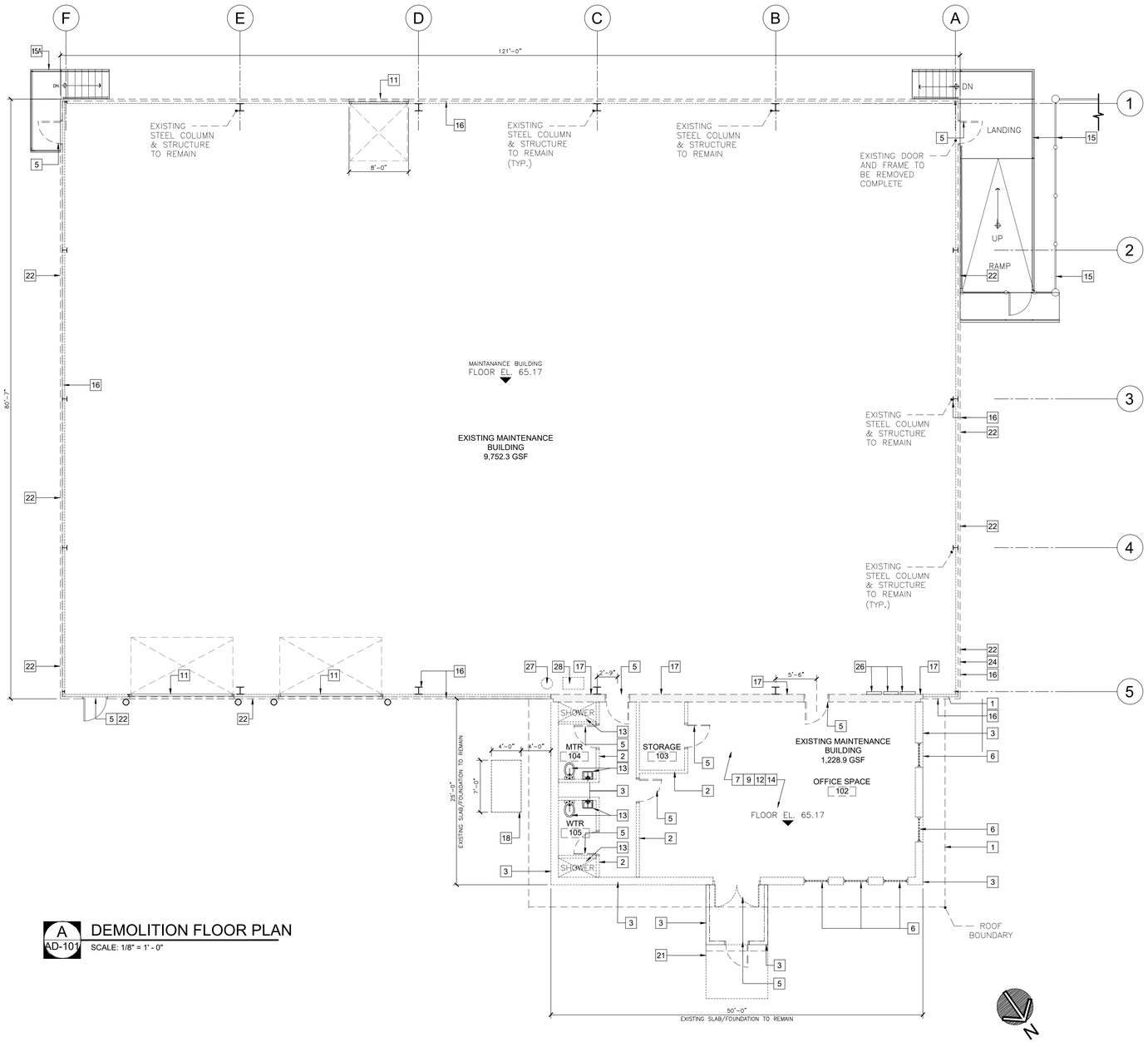
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DATE	REVISIONS	BY	CHKD

Date	04.09.24
Scale	AS SHOWN
Drawn by	MR
Checked by	LU
Job No.	2241869

Drawing No.

G-004



A AD-101 DEMOLITION FLOOR PLAN

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

DEMO FLOOR PLAN KEYNOTES

1	REMOVE EXISTING ROOF EQUIPMENT, SKYLIGHTS, GUTTERS/DOWNSPOUTS & BUILT-UP ROOFING SYSTEM. EXISTING STRUCTURAL FRAMING MEMBERS TO REMAIN AS IS
2	REMOVE EXIST. WALL IN ITS ENTIRETY.
3	REMOVE EXISTING WALL (SHOWN DASHED) AS INDICATED & ALL ASSOCIATED ITEMS. GRIND SMOOTH TO CONCRETE SLAB.
4	REMOVE PORTION OF EXIST. WALL. LINTEL TO BE INSTALLED TO SUPPORT BLOCK.
5	REMOVE EXISTING DOOR & ALL ITS COMPONENTS (DOOR JAMBS, SADDLE, THRESHOLDS & HARDWARE).
6	REMOVE EXISTING WINDOWS & ALL ITS COMPONENTS (JAMBS, SILL, HEADER & HARDWARE)
7	REMOVE EXIST. CEILING SYSTEM IN ITS ENTIRETY (CEILING TILES & CEILING MTL GRIDS) INCLUDING BUT NOT LIMITED TO INSTALLED LIGHT FIXTURES, MECH. & ELECTRICAL ITEMS. SEE MECH. & ELECT. DWGS. FOR ADDITIONAL DEMOLITIONS NOTES
8	EXISTING LIGHT FIXTURES TO REMAIN.
9	REMOVE EXIST. FLOOR FINISHES IN ITS ENTIRETY AND PREPARE EXIST. CONC. FLOOR/SUBFLOOR TO RECEIVE NEW SCHEDULED FINISH. PREPARATION TO EXISTING SUBFLOOR MUST BE COORDINATED AS PER FINISH MATERIALS MFR. RECOMMENDATIONS. ALL DAMAGED SUBFLOOR MUST BE REPAIRED ACCORDINGLY. COORDINATE ASBESTOS ABATEMENT ACTIVITIES WITH THE OWNER
10	REMOVE EXIST. TOILET PARTITIONS & DOORS
11	ALL GARAGE ROLLUP DOOR EQUIPMENT, MOTORS, RAILS, ETC TO REMAIN IN PLACE DURING EXTERIOR CLADDING REPLACEMENT
12	REMOVE EXISTING BUILT-IN CASEWORK INCLUDING WHITEBOARD, WALL CABINETS, CHALKBOARDS/TACKBOARDS, ACCESSORIES, FURNITURE, EQUIPMENT & RETURNED TO OWNER.
13	EXISTING PLUMBING FIXTURE TO BE REMOVED. CAP ANY ABANDONED WATER OR SANITARY LINES AT POINT OF LAST USE. COORDINATE WITH PLUMBING DRAWINGS.
14	DEACTIVATE, DISCONNECT, & REMOVE ALL EXISTING ELECTRICAL FIXTURES, CONDUITS, WIRING, ALL FIRE PROTECTION FIXTURES/ PIPINGS, ALL EXISTING HVAC EQUIPMENT, DUCTS, AND WIRING.
15	EXISTING CYCLONE FENCE AND RAMP TO REMAIN.
15A	EXISTING RAMP TO REMAIN.
16	REMOVE EXISTING INSULATED METAL ROOF & SIDING SYSTEM. ALL EXISTING STRUCTURAL FRAMING TO REMAIN IN PLACE. ANY FIREPROOFING DISTURBED DURING CONSTRUCTION AND DEMOLITION TO BE RESTORED TO ORIGINAL CONDITION.
17	EXISTING MASONRY WALL TO REMAIN. EXISTING INSULATION TO REMAIN. ANY INSULATION DISTURBED DURING THE CONSTRUCTION PROCESS TO BE RESTORED TO ORIGINAL CONDITION. STRIP ANY EXISTING FINISHES ON MASONRY WALL AND PREPARE MASONRY WALL FOR NEW PAINT FINISH. REFER TO STRUCTURAL DRAWINGS.
18	EXISTING CONCRETE PAD TO BE REMOVED COMPLETE
19	EXISTING OFFICE MANSARD ROOF STRUCTURE. BUILD UP ROOF ASSEMBLY, AND TRUSSES TO BE DEMOLISHED COMPLETE
20	EXISTING OFFICE BUILDING FOUNDATION TO REMAIN AS IS AND BE PATCHED AND PREPARED FOR NEW METAL STUD FRAMING
21	EXISTING CONCRETE RAMP TO BE REMOVED COMPLETE
22	EXISTING EXTERIOR LIGHTING TO BE REMOVED AND STORED FOR REINSTALLATION IN NEW EXTERIOR METAL PANEL SYSTEM
23	EXISTING EXTERIOR LIGHTS TO BE REMOVED COMPLETE
24	EXISTING FIRE DEPARTMENT CONNECTION TO REMAIN
25	EXISTING FIRE ALARM DEVICES AND SYSTEM TO BE PROTECTED AND MAINTAINED THROUGH CONSTRUCTION
26	EXISTING ELECTRICAL PANELS AND EQUIPMENT TO REMAIN. REFER TO ELECTRICAL DWGS.
27	EXISTING WATER HEATER TO BE REMOVED AND RELOCATED. REFER TO CONSTRUCTION PLAN FOR NEW LOCATION.
28	EXISTING ICE MAKER TO BE REMOVED AND RELOCATED. REFER TO CONSTRUCTION PLAN FOR NEW LOCATION.
29	EXISTING FIREPROOFING TO BE SCRAPED OFF AND SURFACES PREPARED FOR NEW PAINT FINISH AS PER SPECIFICATIONS

LEGEND:

- PARTITION OR WALLS TO BE REMOVED
- EXISTING WALLS & COLUMNS TO REMAIN
- WINDOW & FRAME TO BE REMOVED
- EXISTING DOOR TO REMAIN
- DOOR & FRAME TO BE REMOVED
- OVERHEAD DOOR TO BE REMOVED
- OVERHEAD DOOR TO REMAIN

DEMOLITION GENERAL NOTES:

1. DASHED LINES/CROSS HATCH ON DEMOLITION PLANS INDICATE ITEMS TO BE REMOVED IN THEIR ENTIRETY.
2. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ANY WIRING OR PIPING CONCEALED IN EXISTING PARTITIONS, SOFFITS, OR ANY ITEMS ASSOCIATED WITH THE GENERAL DEMOLITION.
3. THE CONSTRUCTION SITE SHALL BE MAINTAINED IN A CLEAN CONDITION, ALL DEBRIS SHALL BE CLEANED ON A DAILY BASIS. GENERAL CONTRACTOR TO PROVIDE NECESSARY CONTAINERS TO REMOVE ALL DEBRIS FROM SITE LEGALLY.

DEMOLITION NOTES LEGEND

X	NOTE IS APPLICABLE TO THE ENTIRE ROOM / SPACE
X	NOTE IS APPLICABLE TO SPECIFIC OBJECT / SYSTEM

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SHEET CONTENTS:

DEMOLITION FLOOR PLAN

PROJECT TITLE:

ADDITIONS AND ALTERATIONS
BURLINGTON COUNTY DEPT. OF PUBLIC WORKS
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:

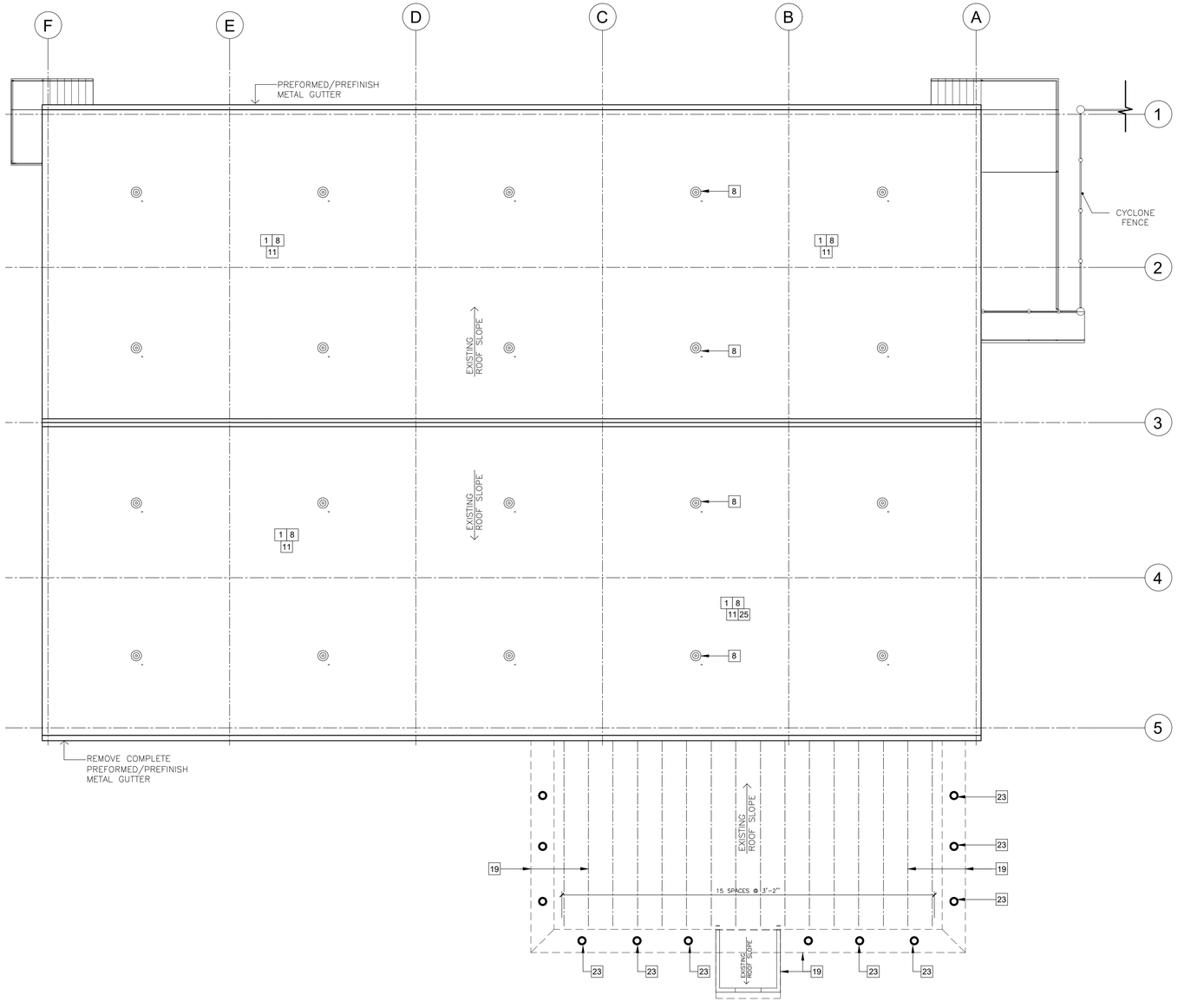
2025.04.25 – ISSUED FOR BID

DATE	REVISIONS	BY	CHKD

Date	04.09.24
Scale	AS SHOWN
Drawn by	MR
Checked by	LU
Job No.	2241869

Drawing No.

AD-101



A AD-103 DEMOLITON ROOF PLAN

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

DEMO FLOOR PLAN KEYNOTES

1	REMOVE EXISTING ROOF EQUIPMENT, SKYLIGHTS, GUTTERS/DOWNSPOUTS & BUILT-UP ROOFING SYSTEM. EXISTING STRUCTURAL FRAMING MEMBERS TO REMAIN AS IS
2	REMOVE EXIST. WALL IN ITS ENTIRETY.
3	REMOVE EXISTING WALL (SHOWN DASHED) AS INDICATED & ALL ASSOCIATED ITEMS. GRIND SMOOTH TO CONCRETE SLAB.
4	REMOVE PORTION OF EXIST. WALL. LINTEL TO BE INSTALLED TO SUPPORT BLOCK.
5	REMOVE EXISTING DOOR & ALL ITS COMPONENTS (DOOR JAMBS, SADDLE, THRESHOLDS & HARDWARE).
6	REMOVE EXISTING WINDOWS & ALL ITS COMPONENTS (JAMBS, SILL, HEADER & HARDWARE)
7	REMOVE EXIST. CEILING SYSTEM IN ITS ENTIRETY (CEILING TILES & CEILING MTL GRIDS) INCLUDING BUT NOT LIMITED TO INSTALLED LIGHT FIXTURES, MECH. & ELECTRICAL ITEMS. SEE MECH. & ELECT. DWGS. FOR ADDITIONAL DEMOLITIONS NOTES
8	EXISTING LIGHT FIXTURES TO REMAIN.
9	REMOVE EXIST. FLOOR FINISHES IN ITS ENTIRETY AND PREPARE EXIST. CONC. FLOOR/SUBFLOOR TO RECEIVE NEW SCHEDULED FINISH. PREPARATION TO EXISTING SUBFLOOR MUST BE COORDINATED AS PER FINISH MATERIAL'S MFR. RECOMMENDATIONS. ALL DAMAGED SUBFLOOR MUST BE REPAIRED ACCORDINGLY. COORDINATE ASBESTOS ABATEMENT ACTIVITIES WITH THE OWNER
10	REMOVE EXIST. TOILET PARTITIONS & DOORS
11	ALL GARAGE ROLLUP DOOR EQUIPMENT, MOTORS, RAILS, ETC TO REMAIN IN PLACE DURING EXTERIOR CLADDING REPLACEMENT
12	REMOVE EXISTING BUILT-IN CASEWORK INCLUDING WHITEBOARD, WALL CABINETS, CHALKBOARDS/TACKBOARDS, ACCESSORIES, FURNITURE, EQUIPMENT & RETURNED TO OWNER.
13	EXISTING PLUMBING FIXTURE TO BE REMOVED. CAP ANY ABANDONED WATER OR SANITARY LINES AT POINT OF LAST USE. COORDINATE WITH PLUMBING DRAWINGS.
14	DEACTIVATE, DISCONNECT, & REMOVE ALL EXISTING ELECTRICAL FIXTURES, CONDUITS, WIRING, ALL FIRE PROTECTION FIXTURES/ PIPINGS, ALL EXISTING HVAC EQUIPMENT, DUCTS, AND WIRING.
15	EXISTING CYCLONE FENCE AND RAMP TO REMAIN.
54	EXISTING RAMP TO REMAIN.
16	REMOVE EXISTING INSULATED METAL ROOF & SIDING SYSTEM. ALL EXISTING STRUCTURAL FRAMING TO REMAIN IN PLACE. ANY FIREPROOFING DISTURBED DURING CONSTRUCTION AND DEMOLITION TO BE RESTORED TO ORIGINAL CONDITION.
17	EXISTING MASONRY WALL TO REMAIN. EXISTING INSULATION TO REMAIN. ANY INSULATION DISTURBED DURING THE CONSTRUCTION PROCESS TO BE RESTORED TO ORIGINAL CONDITION. STRIP ANY EXISTING FINISHES ON MASONRY WALL AND PREPARE MASONRY WALL FOR NEW PAINT FINISH. REFER TO STRUCTURAL DRAWINGS.
18	EXISTING CONCRETE PAD TO BE REMOVED COMPLETE
19	EXISTING OFFICE MANSARD ROOF STRUCTURE, BUILD UP ROOF ASSEMBLY, AND TRUSSES TO BE DEMOLISHED COMPLETE
20	EXISTING OFFICE BUILDING FOUNDATION TO REMAIN AS IS AND BE PATCHED AND PREPARED FOR NEW METAL STUD FRAMING
21	EXISTING CONCRETE RAMP TO BE REMOVED COMPLETE
22	EXISTING EXTERIOR LIGHTING TO BE REMOVED AND STORED FOR REINSTALLATION IN NEW EXTERIOR METAL PANEL SYSTEM
23	EXISTING EXTERIOR LIGHTS TO BE REMOVED COMPLETE
24	EXISTING FIRE DEPARTMENT CONNECTION TO REMAIN
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26	EXISTING ELECTRICAL PANELS AND EQUIPMENT TO REMAIN. REFER TO ELECTRICAL DWGS.
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LEGEND:

- PARTITION OR WALLS TO BE REMOVED
- EXISTING WALLS & COLUMNS TO REMAIN
- WINDOW & FRAME TO BE REMOVED
- EXISTING DOOR TO REMAIN
- DOOR & FRAME TO BE REMOVED
- OVERHEAD DOOR TO BE REMOVED
- OVERHEAD DOOR TO REMAIN

DEMOLITION GENERAL NOTES:

1. DASHED LINES/CROSS HATCH ON DEMOLITION PLANS INDICATE ITEMS TO BE REMOVED IN THEIR ENTIRETY.
2. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ANY WIRING OR PIPING CONCEALED IN EXISTING PARTITIONS, SOFFITS, OR ANY ITEMS ASSOCIATED WITH THE GENERAL DEMOLITION.
3. THE CONSTRUCTION SITE SHALL BE MAINTAINED IN A CLEAN CONDITION, ALL DEBRIS SHALL BE CLEANED ON A DAILY BASIS. GENERAL CONTRACTOR TO PROVIDE NECESSARY CONTAINERS TO REMOVE ALL DEBRIS FROM SITE LEGALLY.

DEMOLITION NOTES LEGEND

X — NOTE IS APPLICABLE TO THE ENTIRE ROOM / SPACE

X — NOTE IS APPLICABLE TO SPECIFIC OBJECT / SYSTEM

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SHEET CONTENTS:

EXISTING STRUCTURAL AND ROOF PLAN

PROJECT TITLE:

ADDITIONS AND ALTERATIONS
BURLINGTON COUNTY DEPT. OF PUBLIC WORKS
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:

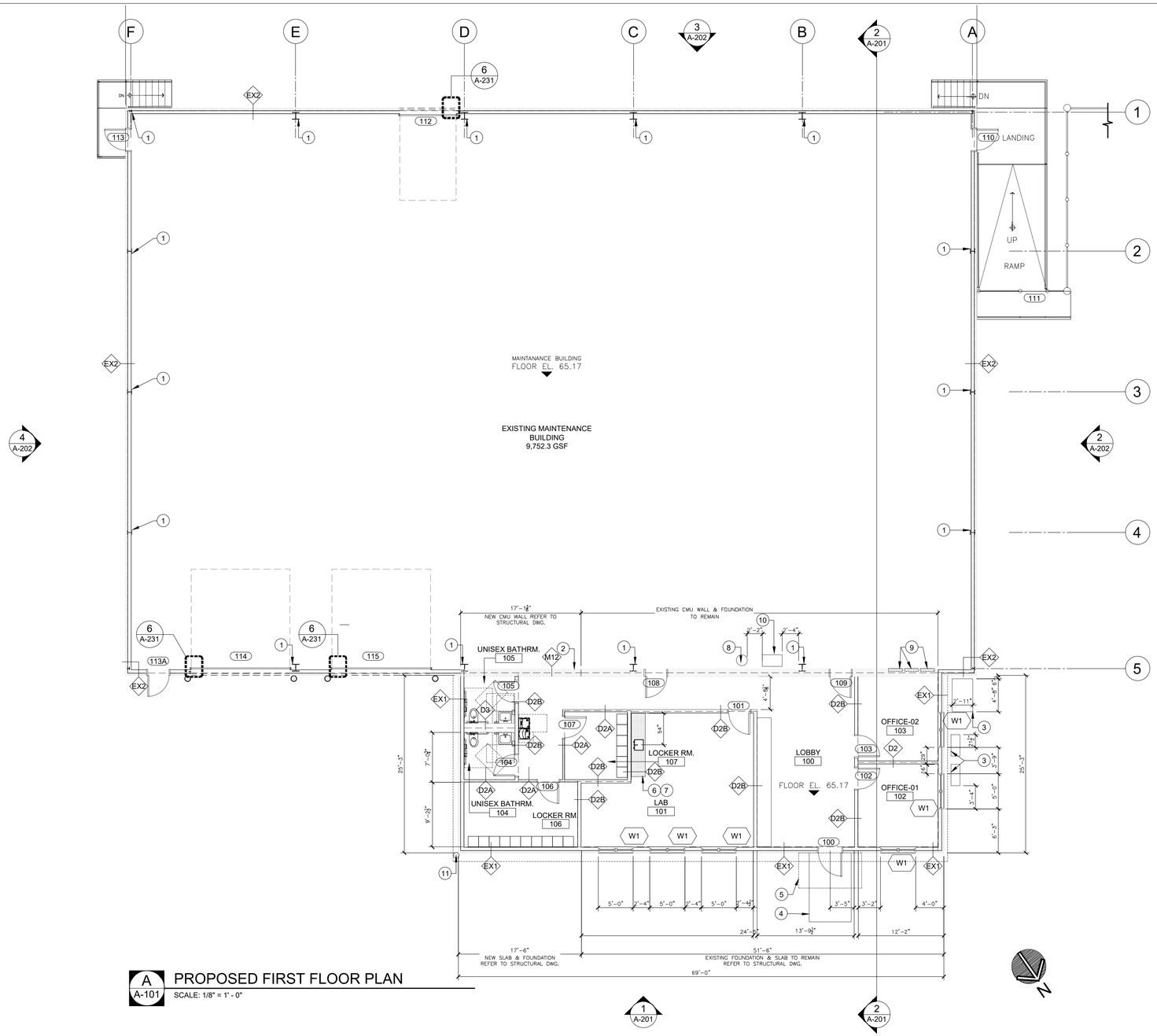
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DATE	REVISIONS	BY	CHKD

Date	04.09.24
Scale	AS SHOWN
Drawn by	MR
Checked by	LU
Job No.	2241869

Drawing No.

AD-103



A
A-101

PROPOSED FIRST FLOOR PLAN

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

CONSTRUCTION PLAN KEYNOTES

1	EXISTING WAREHOUSE STEEL STRUCTURE TO REMAIN IN PLACE. SCOPE IS TO PLACE A NEW INSULATED METAL PANEL SKIN & ROOF SYSTEM. BASIS OF DESIGN: NUCOR CF MESA AND NUCOR CFR IMP
2	NEW 12" CMU WALL. REFER TO STRUCTURAL DWGS.
3	NEW CONCRETE PADS FOR MECH. EQUIP. REFER TO STRUCTURAL DWGS FOR DETAILS.
4	NEW CONCRETE WALKWAY TO MAIN ENTRANCE, TO MATCH EXISTING WALKWAY. REFER TO CIVIL DWG.
5	NEW ENTRY AWNING, BASIS OF DESIGN: LUMISHADE BY MAPES CANOPIES.
6	ALL FURNITURE PROVIDED BY OWNER
7	ALL BUILT-IN CABINETRY PROVIDED BY OWNER
8	RELOCATED EXISTING HOT WATER HEATER TO NEW LOCATION SHOWN. REFER TO PLUMBING DWGS.
9	EXISTING ELECTRICAL PANEL. REFER TO ELECTRICAL DWGS.
10	RELOCATE EXISTING ICE MAKER TO NEW LOCATION SHOWN
11	NEW 6" Ø X 42" HIGH STL. PIPE BOLLARD SCHED. 80. FILL SOLID W/ CONCRETE & PAINTED WITH SAFETY YELLOW COLOR. INSTALL TIGHT TO BUILDING CORNER

GENERAL NOTES AND LEGEND

1. ALL DIMENSIONS ARE FROM FACE OF MASONRY, FACE OF GYPSUM BOARD OR FROM CENTER LINE OF COLUMN LINE UNLESS OTHERWISE NOTED.
2. HINGE SIDE OF DOOR ROUGH OPENINGS TO BE SET AT 4" FROM FACE OF GYPSUM ADJACENT (PERPENDICULAR) PARTITION UNLESS OTHERWISE NOTED.
3. PROVIDE ACCESS PANELS @ ALL LOCATIONS REQUIRING SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING OR ELECTRICAL ITEMS. COORDINATE LOCATIONS WITH MEP DRAWINGS AND PROVIDE FIRE RATED UNITS WHEN INSTALLED IN FIRE RATED WALL ASSEMBLY.
6. UNLESS OTHERWISE NOTED, ALL ITEMS AND ASSOCIATED ELECTRICAL, PIPING, PLUMBING, BLOCKING, SUPPORTS, DATA AND WIRING TO BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR

LEGEND:

- PARTITION OR WALLS TO BE REMOVED
- EXISTING WALLS & COLUMNS TO REMAIN
- WINDOW & FRAME TO BE REMOVED
- EXISTING DOOR TO REMAIN
- DOOR & FRAME TO BE REMOVED
- OVERHEAD DOOR TO BE REMOVED
- OVERHEAD DOOR TO REMAIN

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SHEET CONTENTS:

PROPOSED FLOOR PLAN

PROJECT TITLE:

ADDITIONS AND ALTERATIONS
BURLINGTON COUNTY DEPT. OF PUBLIC WORKS
10 HARTFORD ROAD,DELRAN TWP.
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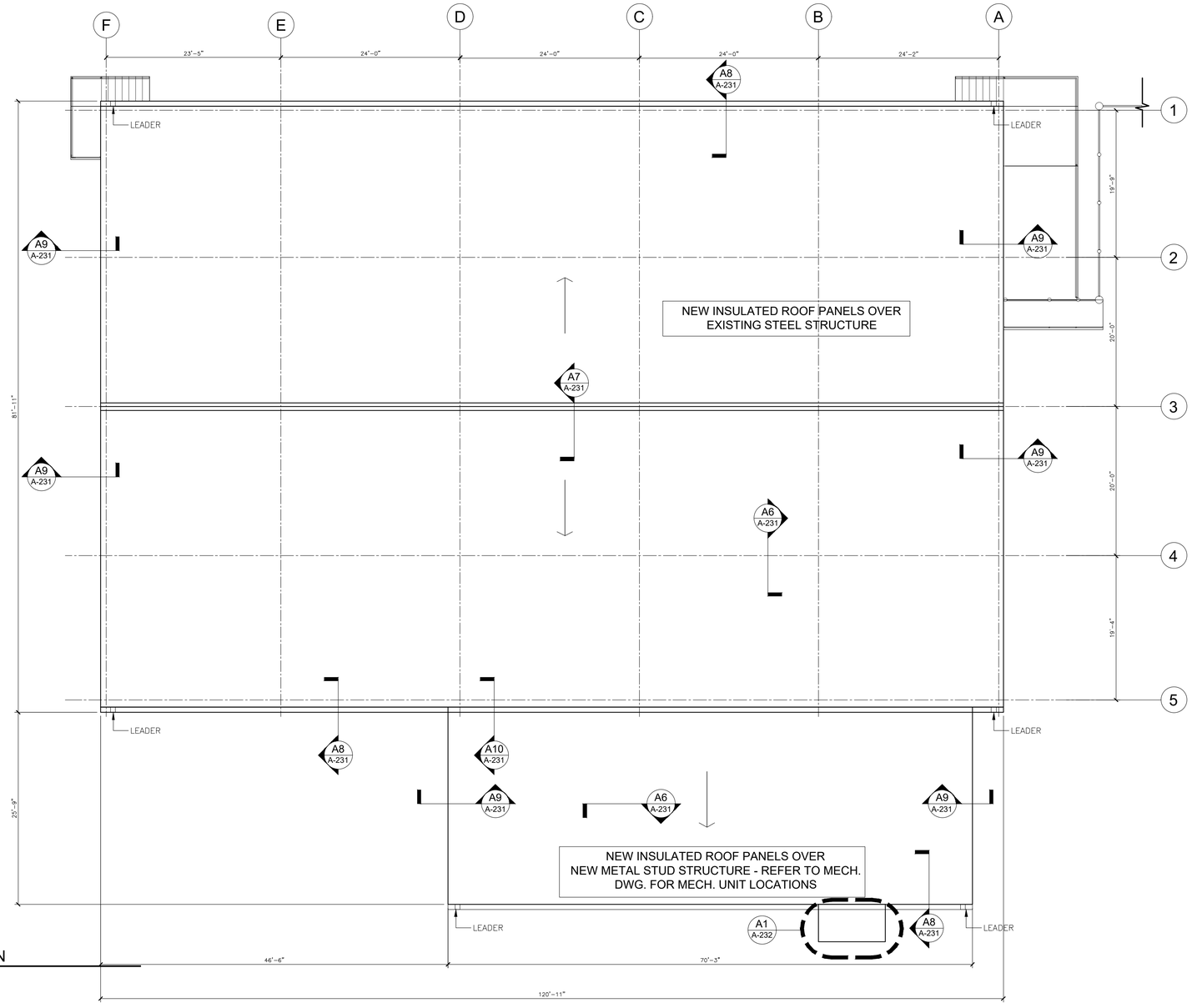
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Scale	AS SHOWN
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Job No.	2241869

Drawing No.

A-101



A A-103 PROPOSED ROOF PLAN
SCALE: 1/8" = 1' - 0"

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ROOF PLAN

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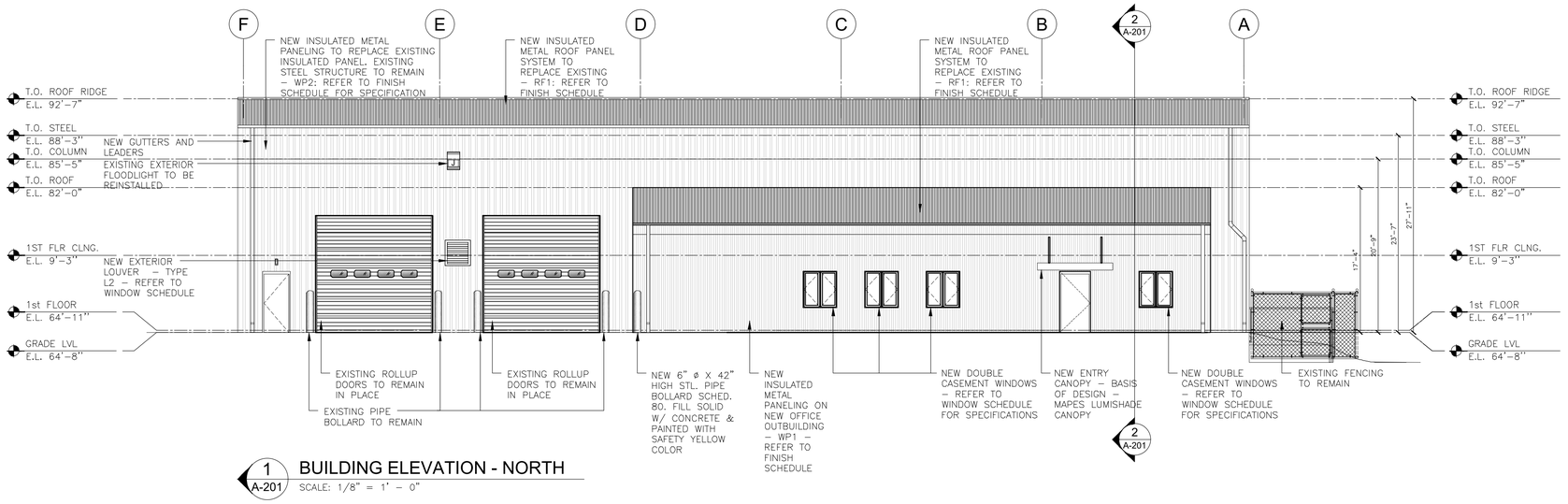
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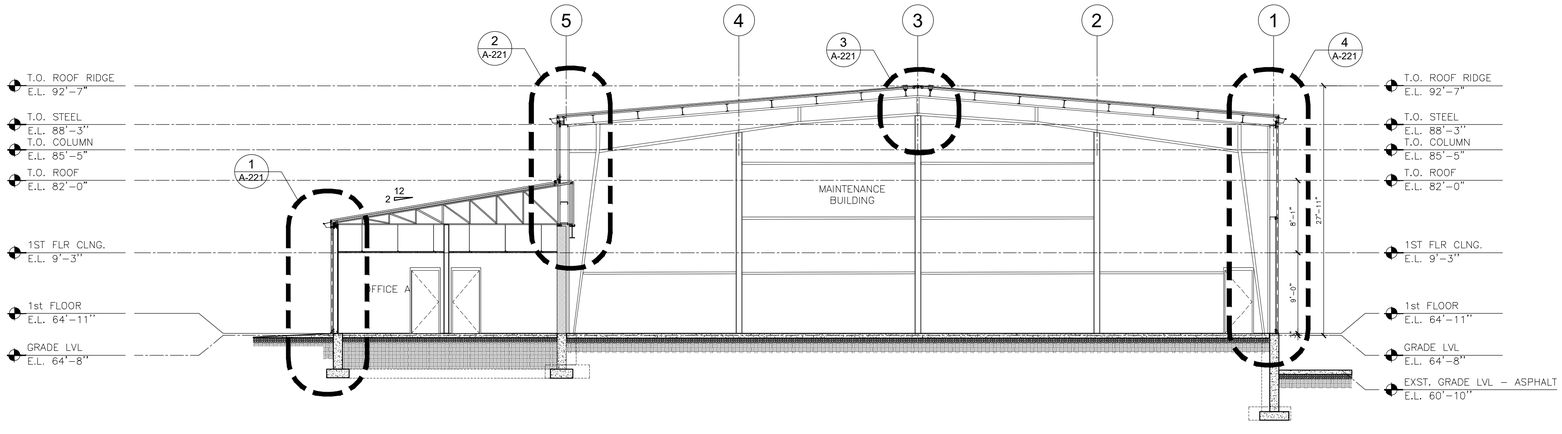
Drawing No.

A-103



1 A-201 **BUILDING ELEVATION - NORTH**

SCALE: 1/8" = 1' – 0"



2 A-201 **BUILDING SECTION**

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

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SHEET CONTENTS:

NORTH BUILDING ELEVATION AND SECTION

PROJECT TITLE:

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BURLINGTON COUNTY DEPT. OF PUBLIC WORKS
10 HARTFORD ROAD,DELRAN TWP.
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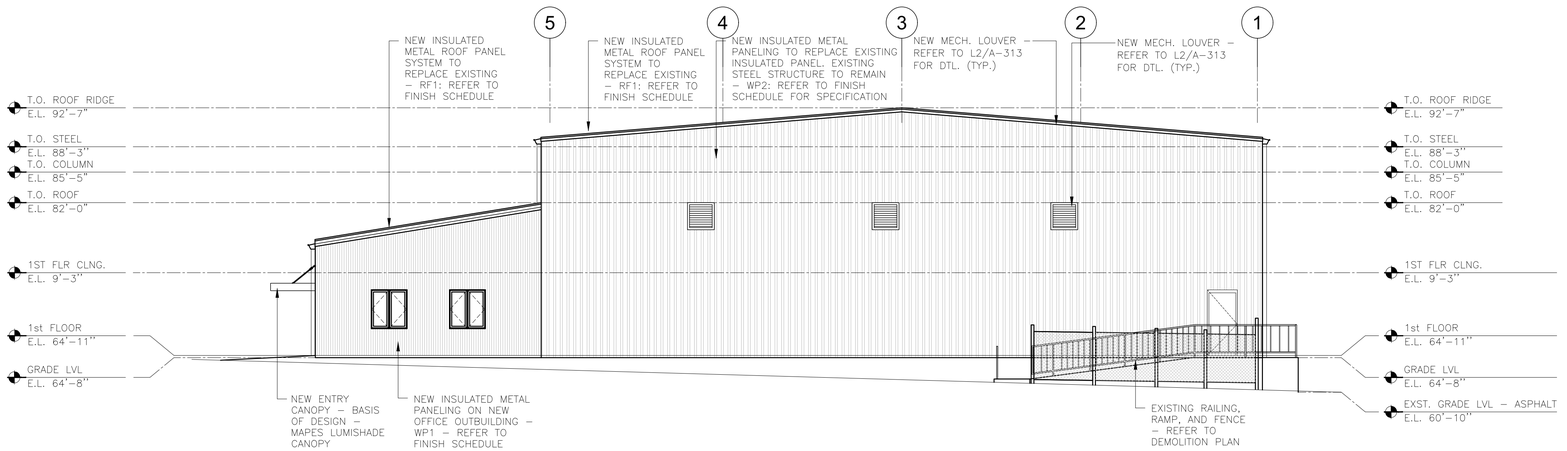
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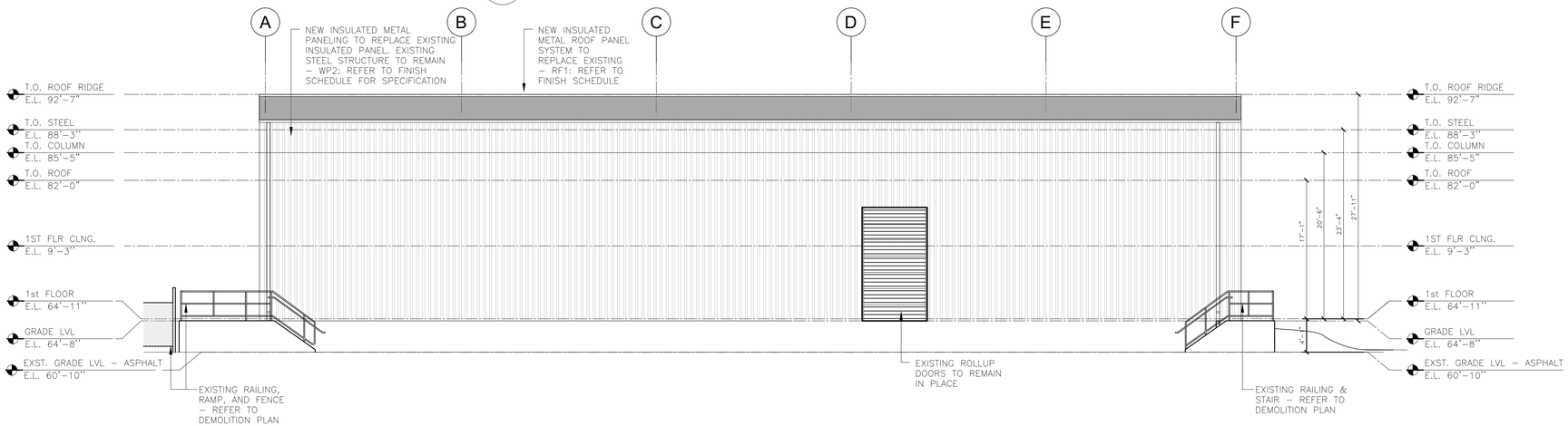
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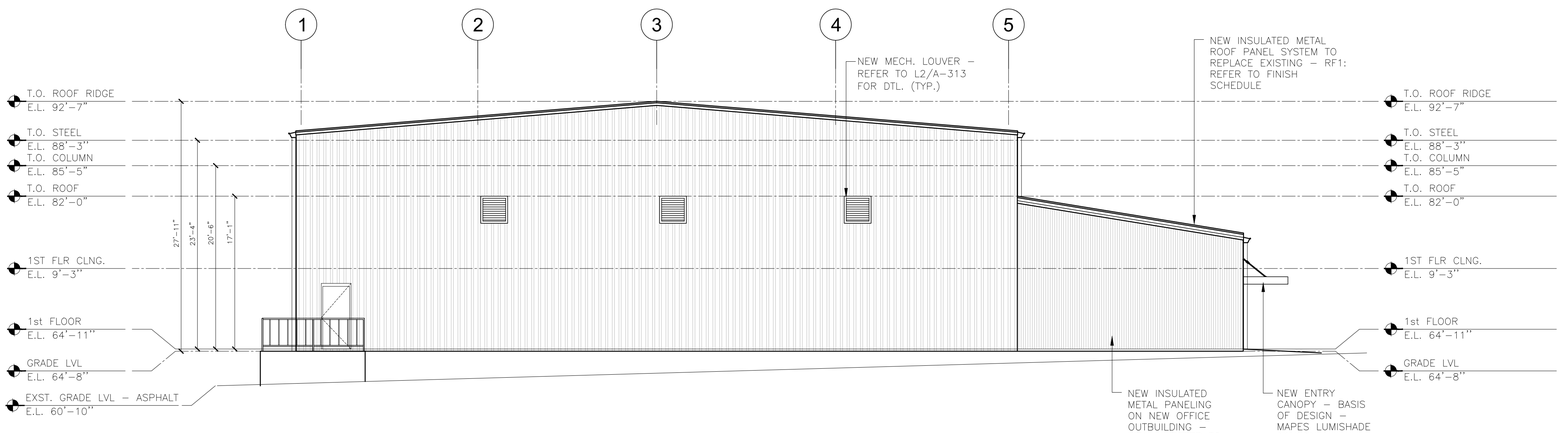
2 A-202 BUILDING ELEVATION - WEST

SCALE: 1/8" = 1' – 0"



3 A-202 BUILDING ELEVATION - SOUTH

SCALE: 1/8" = 1' – 0"



4 A-202 BUILDING ELEVATION - EAST

SCALE: 1/8" = 1' – 0"

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SHEET CONTENTS:

BUILDING ELEVATIONS

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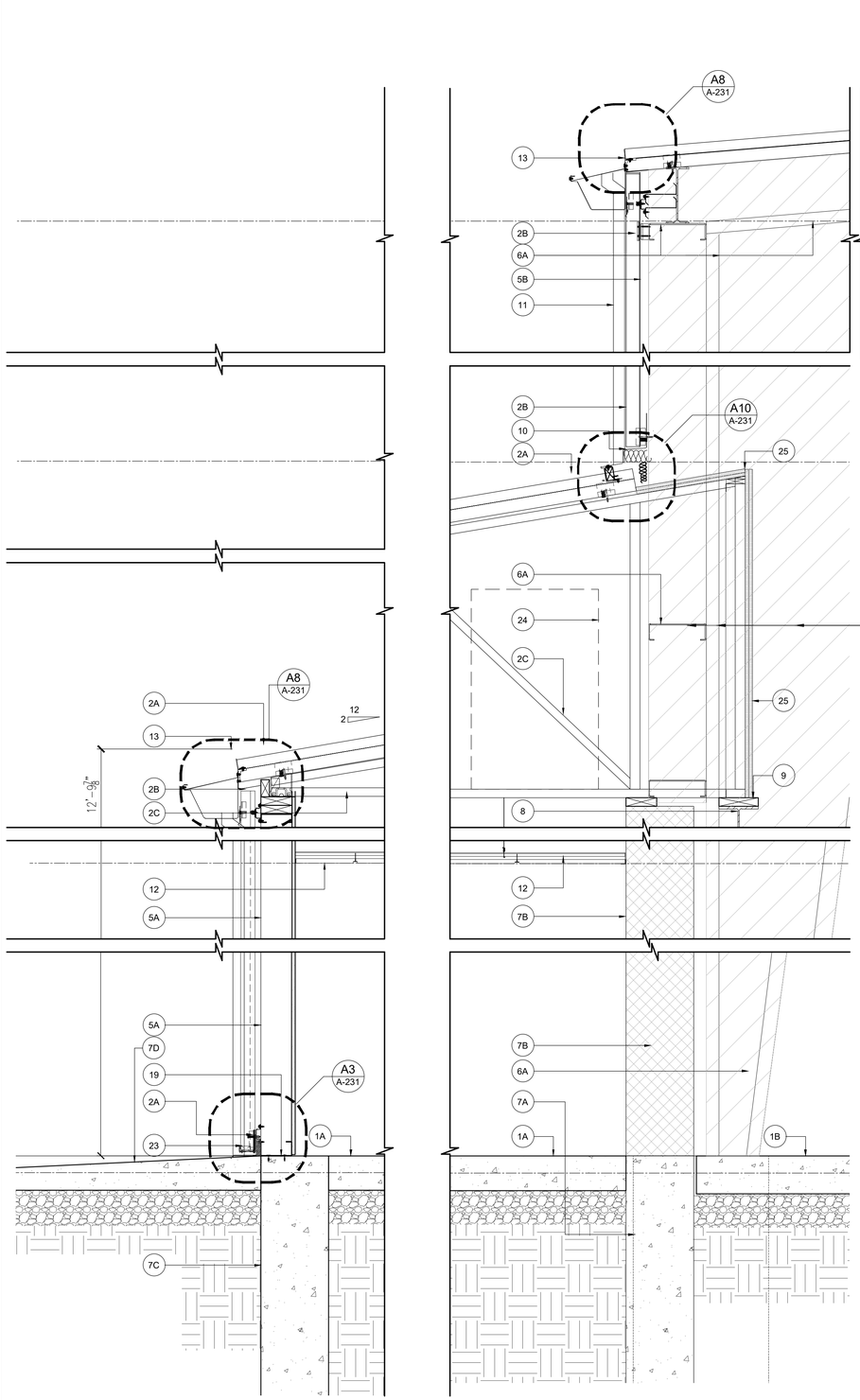
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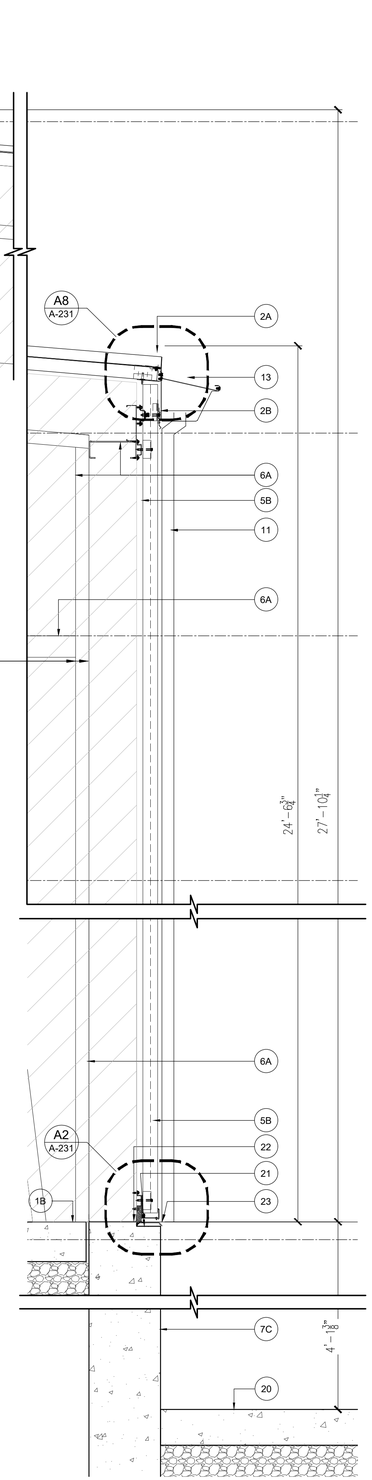
Drawing No.

A-202



1 A-221 BUILDING SECTION
SCALE: 3/4" = 1'-0"

3 A-221 BUILDING SECTION
SCALE: 3/4" = 1'-0"



4 A-221 BUILDING SECTION
SCALE: 3/4" = 1'-0"

EXISTING METAL FRAME ON WAREHOUSE BUILDING TO REMAIN. SCOPE IS TO PLACE A NEW INSULATED METAL PANEL SKIN & ROOF SYSTEM. BASIS OF DESIGN: NUCOR OF MESA AND NUCOR CFR IMP

KEYNOTES THIS DRAWING

1A EXISTING CONCRETE SLAB: REFER TO STRUCT'L. DWGS.

1B TYP. FLOOR CONSTRUCTION "FA2". GARAGE TYP. FLOOR CONSTRUCTION REFER TO STRUCT'L DWGS.

2A NEW 4" THICK INSULATED METAL ROOFING SYSTEM, NUCOR CENTRIA VERSAPANEL ROOF OR APPROVED EQUAL – REFER TO FINISH SCHEDULE

2B NEW 2.75" THICK INSULATED METAL WALL SYSTEM, NUCOR CENTRIA VERSAWALL OR APPROVED EQUAL – WP2: REFER TO FINISH SCHEDULE

2C NEW LIGHT GAUGE METAL PREFABRICATED ROOF TRUSS. REFER TO STRUCTURAL DWGS.

3 RIDGE CAP AS PER INSULATED METAL ROOF MFR – REFER TO ROOF PLAN

4 MECHANICAL LOUVER REFER TO MECHANICAL DRAWINGS

5A EXT. WALL TYPE "EX-1"

5B EXT. WALL TYPE "EX-2"

6A EXISTING STEEL REFER TO STRUCT'L DWGS. ALL EXISTING STEEL TO BE STRIPPED OF EXISTING FIREPROOFING AND PREPARED AS PER SPECIFICATIONS FOR NEW PAINT. REFER TO FINISH SCHEDULE FOR PAINT SPECIFICATION

6C FIELD FILL COMPRESSIBLE OR SPRAY IN INSULATION

6D FIELD APPLY SEALANT AT ALL INSULATED METAL PANEL JOINTS AS PER MFR

7A CONC. FOUNDATION WALL. REFER TO STRUCT'L. DWGS.

7B CMU WALL WITH REINF. REFER TO STRUCT'L DWGS.

7C EXISTING FOUNDATION WALL. REFER TO STRUCTURAL DWGS.

7D NEW CONCRETE WALKWAY TO MAIN BUILDING ENTRANCE

8 NEW STEEL JOIST – AFFIXED TO EXISTING STEEL STRUCTURE – REFER TO STRUCTURAL DWG.

9 NEW F.T. WOOD BLOCKING AFFIXED TO STEEL JOIST

10 COUNTERFLASHING

11 NEW 4"x5" PREFINISH ALUM. WATER LEADER. COLOR TO MATCH METAL INSULATED PANEL

12 CEILING REFER TO FINISH SCHEDULE DWGS.

13 GUTTER TO MATCH INSULATED METAL PANEL AND ROOF SYSTEM COLOR, WITH OPTIONAL SUPPORT ANGLE. FASTENERS TO MATCH SYSTEM COLORS. REFER TO FINISH SCHEDULE FOR FINISHES

14 COMPACTED GRAVEL & EARTHFILL

15 EXISTING BEAM (WF)/COLUMN (H).

16 6"ø x 42" HIGH STL. PIPE BOLLARD SCHED. 80. FILL SOLID WITH CONCRETE AND PAINTED WITH SAFETY YELLOW COLOR.

17 STL. PLATE. SEE STRUCT'L. DWGS.

17B GALV. STEEL FRAMING REFER TO STRUCTURAL DWGS.

18 CONTINUOUS GALV. STEEL ANGLE REFER TO STRUCTURAL DWGS.

19 CONTINUOUS BASE ANGLE SEALED TO SLAB, FASTENED AS PER MFR. SPEC.

20 NEW ACT CEILING – SEE FINISH SCHEDULE FOR SPECIFICATION

20 EXISTING CONCRETE SLAB TO REMAIN

21 FLUSH WALL PANEL BASE WITH BASE TRIM.

22 INSULATED METAL PANEL HIDDEN JOINT FASTENERS

23 INSULATED METAL PANEL FLUSH BASE CONDITION – SEE DTL A2/A231

24 NEW PROPOSED LOCATION OF MECH. UNITS – REFER TO MECH. DWG.

25 TWO LAYERS OF TYPE-X GYPSUM BOARD INSTALLED ON NEW METAL TRUSSES, TAPE AND SEAL ALL JOINTS. INFILL BETWEEN TRUSSES USING 3-5/8" METAL STUDS @ 16"O.C. FILL VOIDS BETWEEN MTL. TRACK & STRUCTURE WITH FIRE-SAFING INSULATION AND FIRE STOP CAULKING. ANY BLOCKING USED TO BE FIRE TREATED.

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SHEET CONTENTS:

WALL SECTIONS

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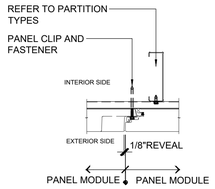
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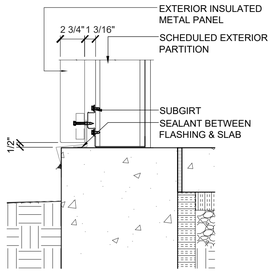
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Job No.	2241869

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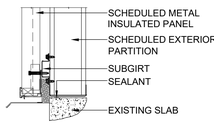
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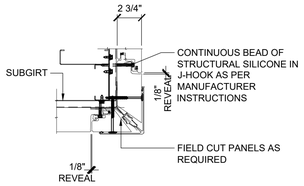
A1 TYP. INSULATED METAL WALL PANEL JOINT
N.T.S.



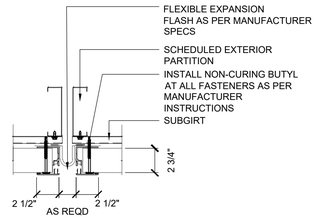
A2 TYP. INSULATED METAL PANEL FLUSH BASE
N.T.S.



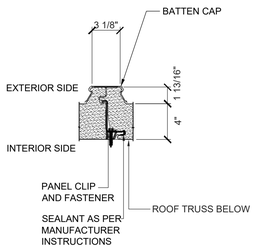
A3 TYP. INSULATED METAL PANEL BASE
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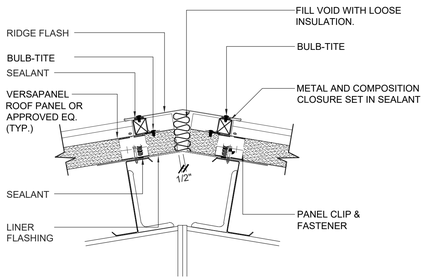
A4 TYP. INSULATED METAL PANEL CORNER DETAIL
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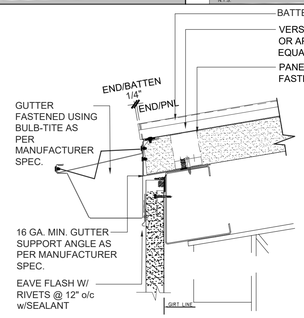
A5 TYP. INSULATED METAL PANEL EXPANSION JOINT (NOT USED)
N.T.S.



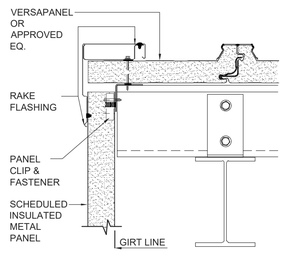
A6 TYP. INSULATED METAL ROOF PANEL JOINT
SCALE: 1-1/2"=1'-0"



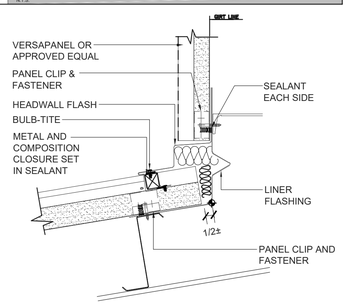
A7 RIDGE APEX DETAIL
SCALE: 1-1/2"=1'-0"



A8 EAVE DETAIL W/ GUTTER
SCALE: 1-1/2"=1'-0"



A9 GABLE DETAIL
SCALE: 1-1/2"=1'-0"



A10 ROOF HEADWALL
SCALE: 1-1/2"=1'-0"

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SHEET CONTENTS:

TYPICAL METAL INSULATED PANEL DETAILS

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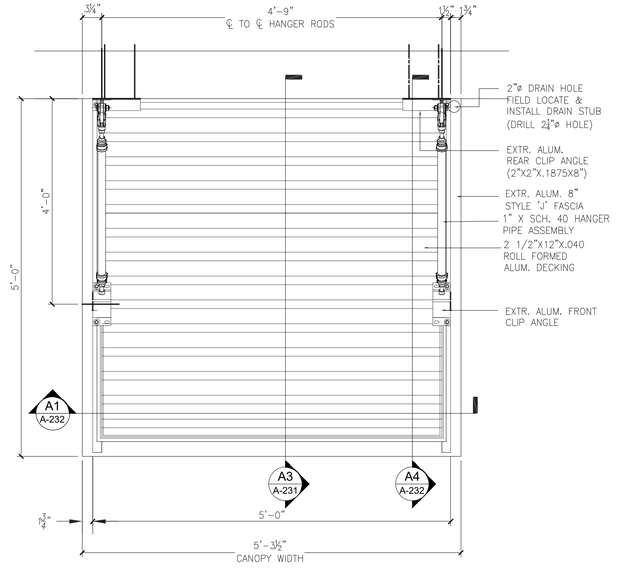
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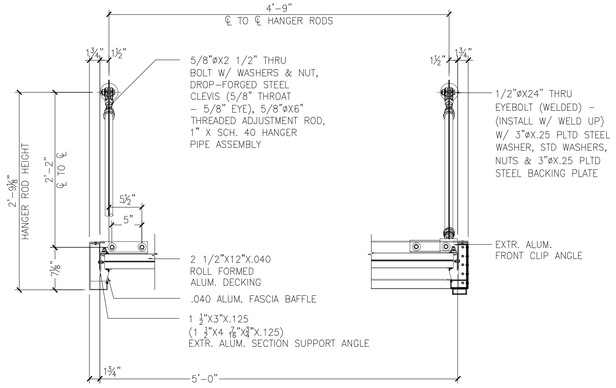
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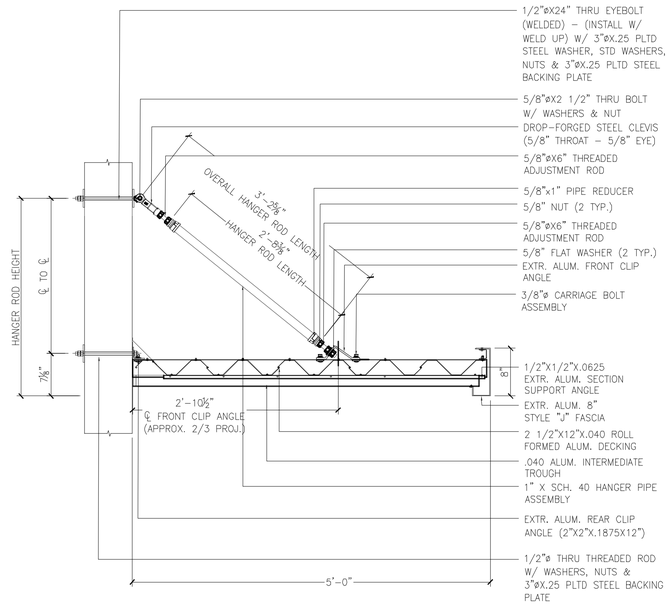
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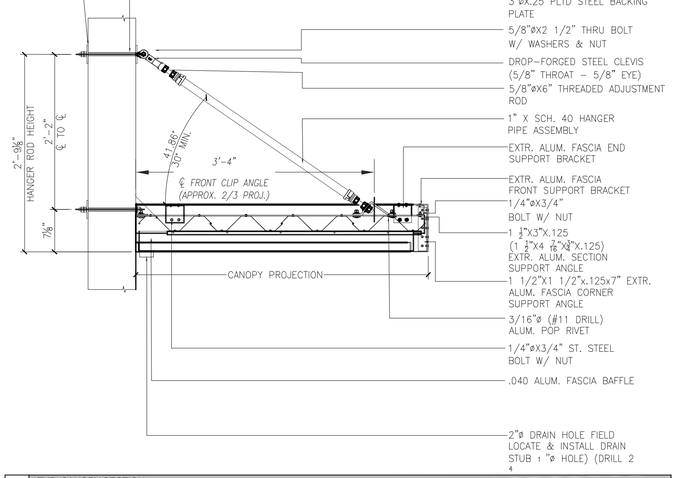
A1 TYP. FRONT ENTRYWAY CANOPY PLAN
NTS



A2 TYP. CANOPY SECTION
NTS



A3 TYP. CANOPY SECTION
NTS



A4 TYP. CANOPY SECTION
NTS

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TYPICAL FRONT ENTRYWAY EXTERIOR CANOPY DETAILS

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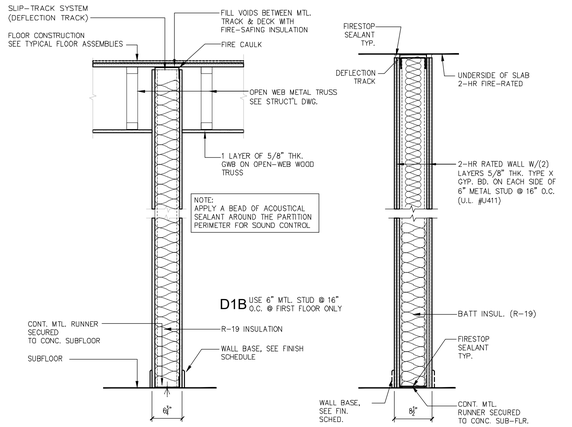
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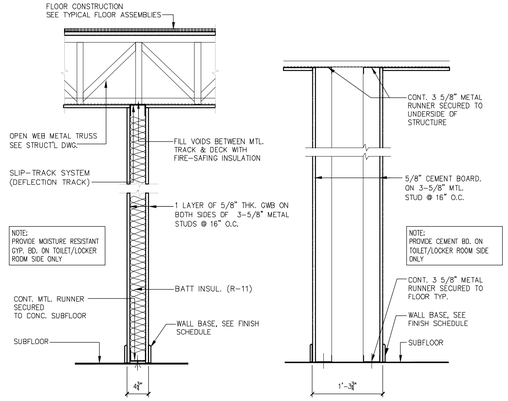
Drawing No.

A-232



D1A **DRYWALL PARTITION TYPE**
2-HOUR RATED - UL DESIGN No. U411
STC RATING: 56 (DEMISING WALL)

D1B **DRYWALL PARTITION TYPE**
1-HOUR RATED UL DESIGN No. U419
STC RATING: 48 (DEMISING WALL)



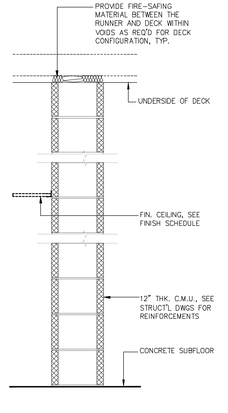
D2 **DRYWALL PARTITION TYPE**
NON RATED PARTITION

D2A **DRYWALL PARTITION TYPE**
SAME AS D2 EXCEPT WITH 2" SOUND ATTENUATION BLANKET AND MOISTURE RESISTANT GWB ON TOILET SIDE ONLY

D2B **DRYWALL PARTITION TYPE**
SAME AS D2A EXCEPT WITH 6" MTL. STUD AND MOISTURE RESISTANT TYPE X GWB ON TOILET/LOCKER SIDE ONLY

D2C **DRYWALL PARTITION TYPE**
SAME AS D2 EXCEPT WITH 3 5/8" MTL. STUD

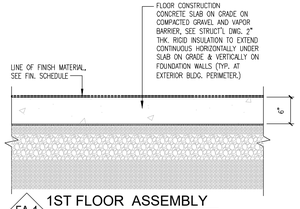
D3 **DRY WALL PART.**
NON-RATED PARTITION



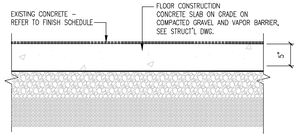
M12 **12" CMU PARTITION**
2-HR RATED - UL DESIGN NO. U905

INTERIOR WALL TYPES

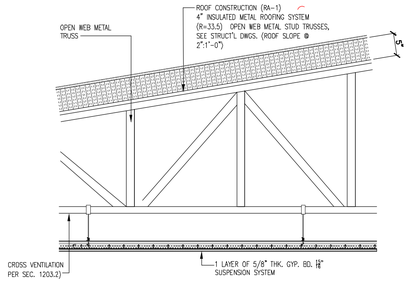
SCALE: 1" = 1'-0"



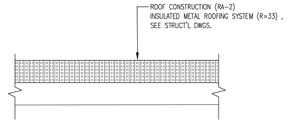
FA-1 **1ST FLOOR ASSEMBLY**



FA-2 **GARAGE FLOOR ASSEMBLY**
-
-



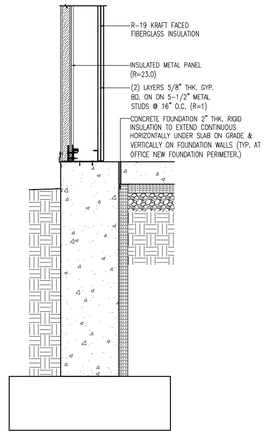
RA-1 **TYP. ROOF ASSEMBLY**
UL DESIGN NO. L528 (SYSTEM 1) - 1-HR FIRE RATED
STC RATING: NON REQUIRED



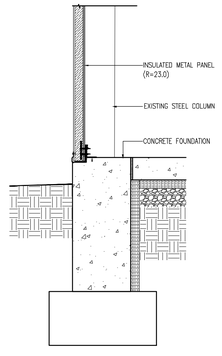
RA-2 **ROOF ASSEMBLY**
1.5-HR FIRE RATED FLOOR/ROOF CONSTRUCTION

FLOOR / ROOF ASSEMBLY

SCALE: 1" = 1'-0"



EX-1 **INSULATED METAL PANEL WALL**
R=23.0, U.L. U348 - 1 HR.



EX-2 **INSULATED METAL PANEL WALL**
R=23.0, U.L. U348 - 1 HR.

EXTERIOR WALL TYPES

SCALE: 1" = 1'-0"

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SHEET CONTENTS:

PARTITION TYPES

PROJECT TITLE:

ADDITIONS AND ALTERATIONS
BURLINGTON COUNTY DEPT. OF PUBLIC WORKS
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:
2025.04.25 – ISSUED FOR BID

DATE	REVISIONS	BY	CHKD

Date	04.09.24
Scale	AS SHOWN
Drawn by	MR
Checked by	LU
Job No.	2241869

Drawing No.

A-301

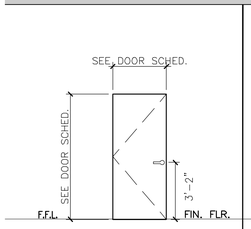
DOOR AND FRAME SCHEDULE

DOOR NO.	DOOR LOCATION		DOOR							FRAME					SILL		FIRE-RATING	HDWR. SET	REMARKS
	FROM	TO	WD	HGT	THK	MAT'L.	FIN	TYPE	GL	MAT'L.	FIN.	TYPE	JAMB	HEAD	MAT'L.	TYPE			
100	LOBBY	BLDG. EXTERIOR	3'-0"	7'-0"	1¾"	FRP	PT	F	–	H.M.	DP1	1	J3	H3	AL	S2	–	1.0	
101	HALLWAY	LABORATORY	3'-0"	7'-0"	1¾"	H.M.	PT	FV1	T	H.M.	DP1	1	J1	H1	AL	–	–	2.0	
102	LOBBY	OFFICE-01	3'-0"	7'-0"	1¾"	H.M.	PT	F	–	H.M.	DP1	1	J1	H1	–	–	–	4.0	
103	LOBBY	OFFICE-02	3'-0"	7'-0"	1¾"	H.M.	PT	F	–	H.M.	DP1	1	J1	H1	–	–	–	4.0	
104	HALLWAY	UNISEX BATHROOM	3'-0"	7'-0"	1¾"	H.M.	PT	F	–	H.M.	DP1	1	J1	H1	AL	S5	–	3.0	
105	HALLWAY	UNISEX BATHROOM	3'-0"	7'-0"	1¾"	H.M.	PT	F	–	H.M.	DP1	1	J1	H1	AL	S5	–	3.0	
106	HALLWAY	MEN'S LOCKER RM.	3'-0"	7'-0"	1¾"	H.M.	PT	F	T	H.M.	DP1	1	J1	H1	AL	S5	–	3.0	
107	HALLWAY	WOMEN'S LOCKER RM.	3'-0"	7'-0"	1¾"	H.M.	PT	F	–	H.M.	DP1	1	J1	H1	AL	S5	–	3.0	
108	GARAGE	HALLWAY	3'-0"	7'-0"	1¾"	H.M.	PT	F	–	H.M.	DP1	1	J2	H2	AL	S2	–	1.0	EXISTING OPENING
109	GARAGE	HALLWAY	3'-0"	7'-0"	1¾"	H.M.	PT	F	–	H.M.	DP1	1	J2	H2	AL	S2	–	1.0	EXISTING OPENING
110	GARAGE	BLDG. EXTERIOR	3'-0"	7'-0"	1¾"	FRP	PT	F	–	H.M.	DP1	1	J6	H6	AL	S2	–	1.0	NEW DOOR/FRAME TO INSTALL @ SAME LOCATION
111	RAMP	BLDG. EXTERIOR	–										–	–					EXISTING GATE DOOR IN EXISTING CYCLONE FENCE TO REMAIN
112	GARAGE	BLDG. EXTERIOR	8'-0"	8'-0"									J5	H5					EXISTING SECTIONAL OVERHEAD DOORS – ELECTRIC-HIGH-LIFT
113	GARAGE	BLDG. EXTERIOR	3'-0"	7'-0"	1¾"	FRP	PT	F	–	H.M.	DP1	1	J6	H6	AL	S2	–	1.0	NEW DOOR/FRAME TO INSTALL @ SAME LOCATION
113A	GARAGE	BLDG. EXTERIOR	3'-0"	7'-0"	1¾"	FRP	PT	F	–	H.M.	DP1	1	J6	H6	AL	S2	–	1.0	NEW DOOR/FRAME TO INSTALL @ SAME LOCATION
114	GARAGE	BLDG. EXTERIOR	14'-0"	16'-0"									J5	H5					EXISTING SECTIONAL OVERHEAD DOORS – ELECTRIC-HIGH-LIFT
115	GARAGE	BLDG. EXTERIOR	14'-0"	16'-0"									J5	H5					EXISTING SECTIONAL OVERHEAD DOORS – ELECTRIC-HIGH-LIFT

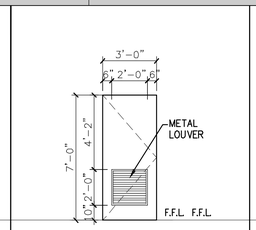
* NOTE: 1. ALL EXISTING DOOR FRAMES & DOORS SHALL BE CLEAN, SANDED BEFORE APPLYING NEW PAINT & SEALED FINISH.
2. CLEAN ALL INTERIOR WINDOWS INCLUDING GLASS, ALUMINUM FRAMES & SILLS.
3. ALL EXISTING INTERIOR DOORS TO BE CLEAN & PAINTED TO MATCH COLORS OF NEW DOORS.
4. NEW FRP DOORS COLORS TO MATCH EXTERIOR METAL PANEL COLORS

DOOR TYPE SCHEDULE

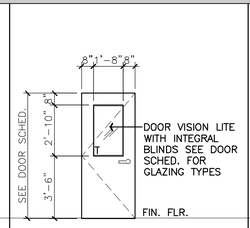
SCALE 1/4" = 1'-0"



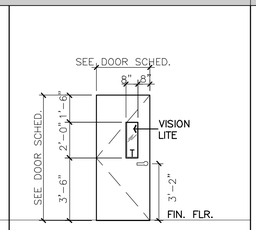
F | FLUSH DOOR
REFER TO DOOR SCHEDULE FOR MATL.



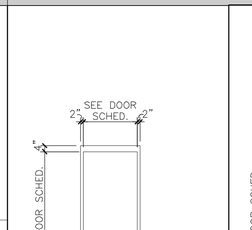
F1 | FLUSH DOOR
WITH LOUVER



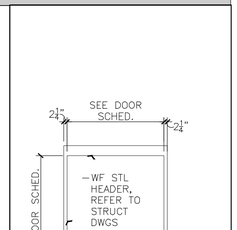
FV1 | HOLLOW METAL DOOR
WITH VISION GLASS



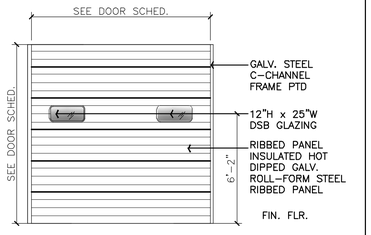
FV2 | FRP/HOLLOW METAL DOOR
WITH VISION GLASS



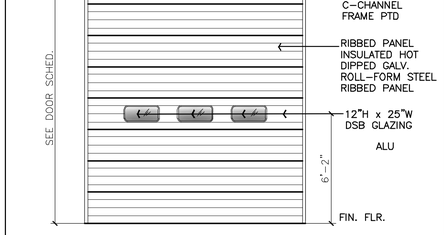
1 | H.M. DOOR FRAME
CMU WALL APPLICATION



2 | O.H. DOOR FRAME
CMU WALL APPLICATION



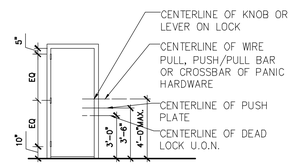
CD1 | VERT. TRACK INSULATED SECTIONAL DOOR (NOT USED)
RIBBED PANEL WITH DSB GLAZING



CD2 | VERT. TRACK INSULATED SECTIONAL DOOR (NOT USED)
RIBBED PANEL WITH DSB GLAZING

NOTE:

1. SEE PLAN FOR DOOR SWING



HARDWARE NOTES:

1. REFER TO HARDWARE SCHEDULE FOR NUMBER OF HINGES REQUIRED.
2. ALL HARDWARE MOUNTING SHALL MEET APPLICABLE HANDICAPPED ACCESS CODES. COORDINATE AND VERIFY ALL MOUNTING HEIGHTS WITH LOCAL CODE JURISDICTIONS, HANDICAPPED CODES AND PROJECT DESIGN REQUIREMENTS.
3. HOLLOW DOORS , COORDINATE CONCEALED HARDWARE WITH THE MINIMUM STILE AND RAIL DIMENSIONS AND DOOR AND HARDWARE SPECIFICATIONS. ALLOW DEPTH OF THE HARDWARE PLUS THE MINIMUM REQUIRED RAIL OR STILE AS SPECIFIED BY AW.
4. ALL HARWARE, LEVERS, CLOSERS, SADDLES, ETC. TO MEET A.D.A. ACCESSIBILITY REQUIREMENTS.

LEGEND:

AL	ALUMINUM
CA	CLEAD AMODIZED ALUMINUM
COLA.	COLORED ANODIZED ALUMINUM
CLR	CLEAR
CG	CHAINLINK GATE
CSG	CHAINLINK SLIDING GATE
FRP	FIBER-REINFORCED PANEL
FRG	FIRE RATED GLAZING
DP1	SCHEDULE DOOR FRAME PAINT
GA STL	GALVANIZED STEEL
GL	GLASS
H.M.	HOLLOW METAL
PC	POWDER COATED
PT	PAINT – SEE FIN. SCHED.
RB	RUBBER
STL.	STEEL
S/STL	STAINLESS STEEL
ST	STONE
T	TEMPERED GLASS
TBD	TO BE DETERMINE
T.I.	TEMPERED INSULATING GLASS
WD	SLID CORE WOOD DOOR
WM	WIRE MESH
WT	WIRED TEMPERED GLASS

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DATE	REVISIONS	BY	CHKD

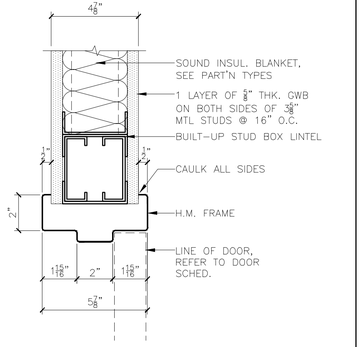
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Job No.	2241869

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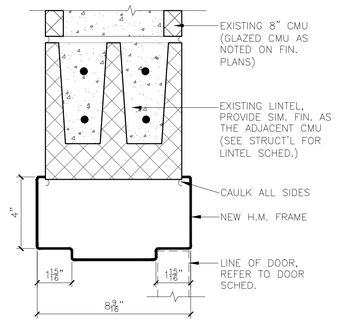
A-311

DOOR DETAILS (SCALE: 3" = 1'-0")

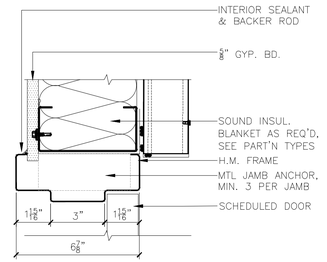
PRE-FINISHED MANUFACTURED DOORS



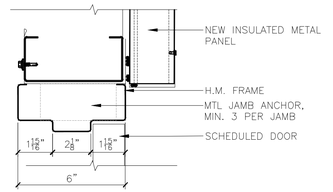
H1 TYP. HEAD DETAIL
SCALE: 3" = 1' - 0"



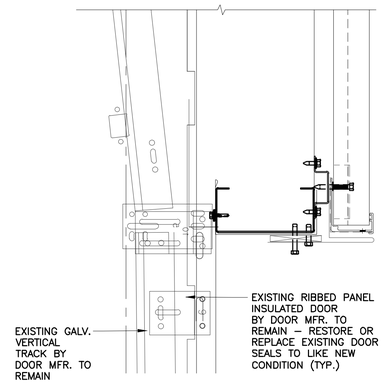
H2 TYP. HEAD DETAIL
SCALE: 3" = 1' - 0"



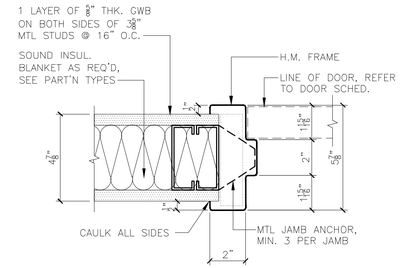
H3 TYP. HEAD DETAIL
SCALE: 3" = 1' - 0"



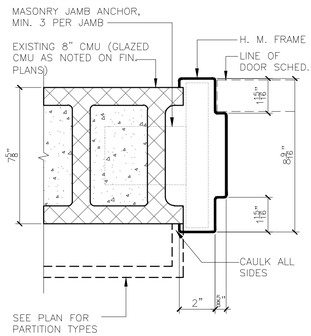
H4 TYP. HEAD DETAIL
SCALE: 3" = 1' - 0"



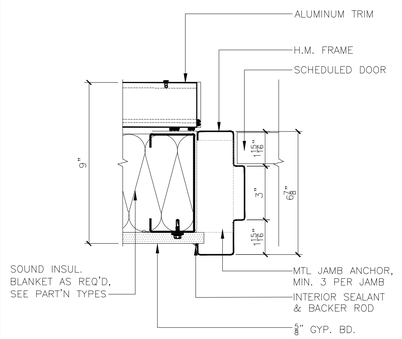
H5 HEAD DETAIL (OVERHEAD DOOR) EXTERIOR
SCALE: 3" = 1'-0"



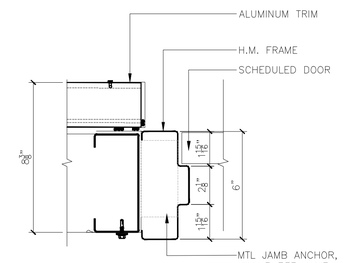
J1 TYP. JAMB DETAIL
SCALE: 3" = 1' - 0"



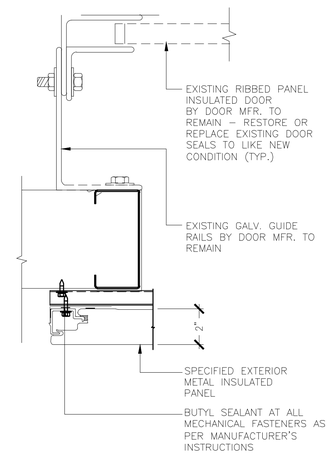
J2 TYP. JAMB DETAIL
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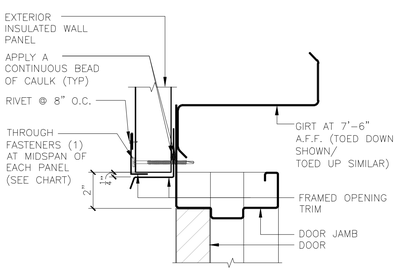
J3 TYP. JAMB DETAIL
SCALE: 3" = 1' - 0"



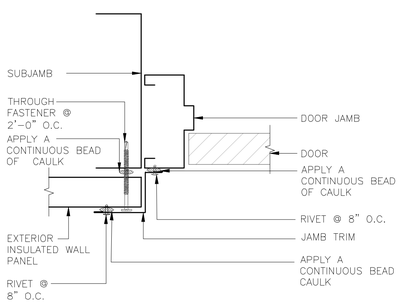
J4 TYP. JAMB DETAIL
SCALE: 3" = 1' - 0"



J5 JAMB DETAIL (OVERHEAD DOOR) EXTERIOR
SCALE: 3" = 1'-0"

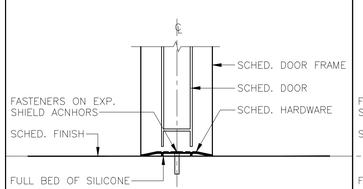


H6 HEAD DETAIL (OVERHEAD DOOR) EXTERIOR
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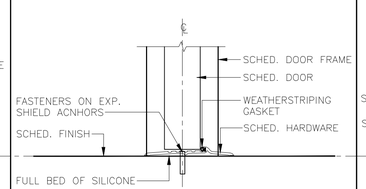


J6 JAMB DETAIL (OVERHEAD DOOR) EXTERIOR
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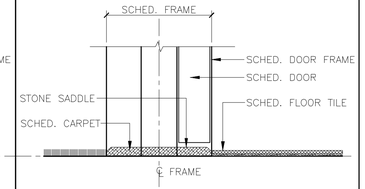
DOOR SILL TYPE SCHEDULE (SCALE: 3" = 1'-0")



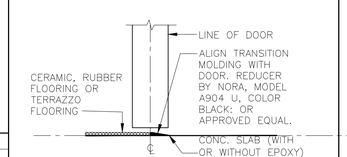
S1 ALUMINUM SADDLE THRESHOLD
EXTERIOR APPLICATION



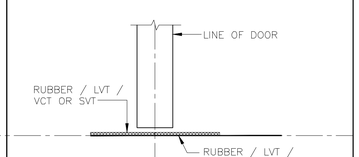
S2 ALUMINUM SADDLE THRESHOLD
EXTERIOR THRESHOLD WITH WEATHER STRIPPING



S3 STONE SADDLE TRANSITION
CARPET TO FLOOR TILE TRANSITION



S4 RUBBER SADDLE
CERAMIC OR RUBBER TO CONCRETE



S5 RUBBER TRANSITION
RUBBER TO VCT / LVT / SVT

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SHEET CONTENTS:

DOOR DETAILS

PROJECT TITLE:

ADDITIONS AND ALTERATIONS
BURLINGTON COUNTY DEPT. OF PUBLIC WORKS
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

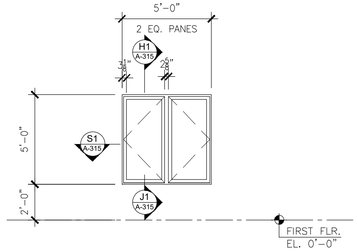
SUBMISSION:
2025.04.25 – ISSUED FOR BID

DATE	REVISIONS	BY	CHKD

Date	04.09.24
Scale	AS SHOWN
Drawn by	MR
Checked by	LU
Job No.	2241869

Drawing No.

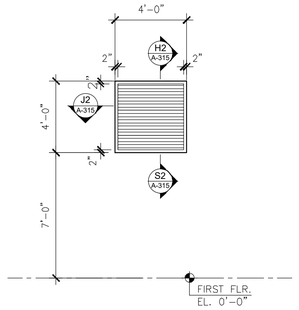
A-312



W1 EXTERIOR INSULATED ALUMINUM CASEMENT OUTSWING WINDOW

SCALE: ¼" = 1'-0"

KAWNEER AA6400 OR APPROVED EQUAL



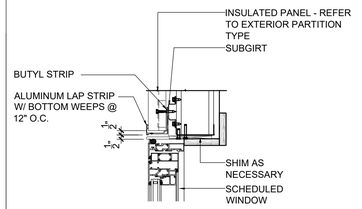
L2 ALUMINUM MECHANICAL LOUVER

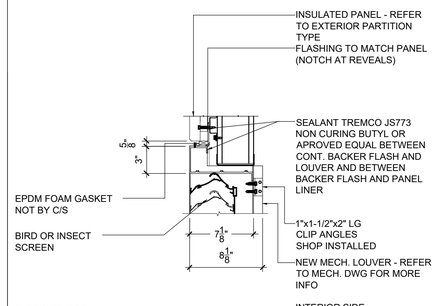
SCALE: ¼" = 1'-0"

PROVIDE ALUM. BIRD SCREEN

METAL PANEL OPENING DETAILS

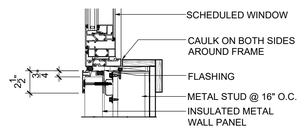
SCALE: 1 1/2" = 1'-0"





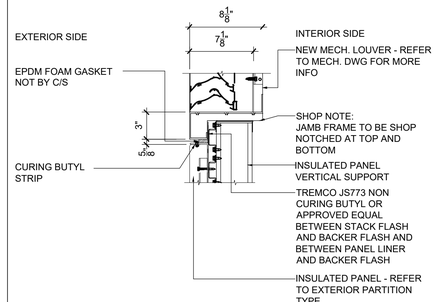
H1 HEAD DETAIL

SCALE: 1½" = 1'-0"



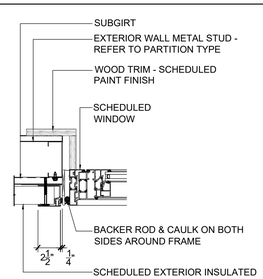
H2 TYP. LOUVER HEAD DETAIL

SCALE: 1½" = 1'-0"



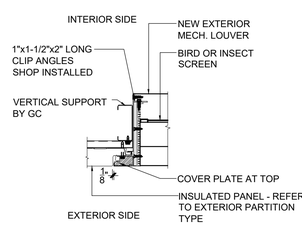
S1 SILL DETAIL

SCALE: 1½" = 1'-0"



S2 TYP. LOUVER SILL DETAIL

SCALE: 1½" = 1'-0"



J1 JAMB DETAIL

SCALE: 1½" = 1'-0"

J2 JAMB DETAIL

SCALE: 1½" = 1'-0"

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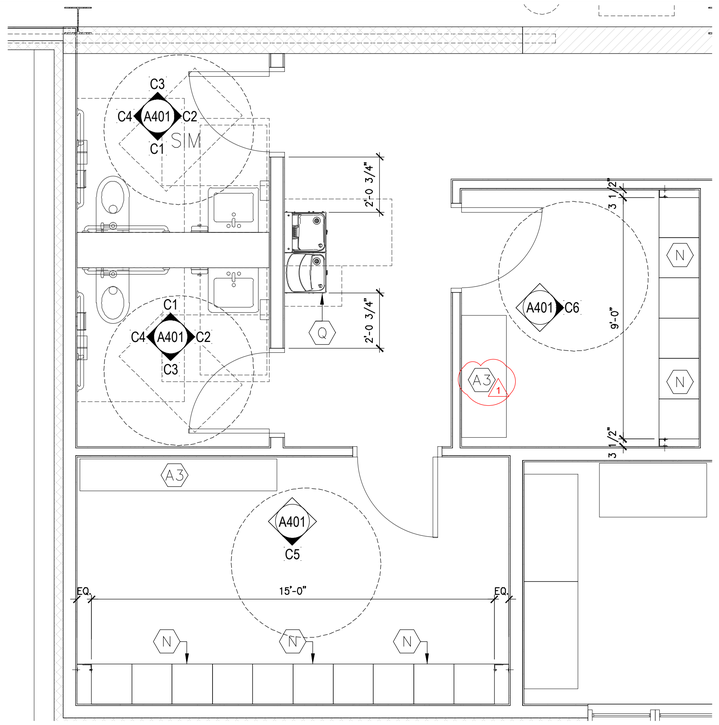
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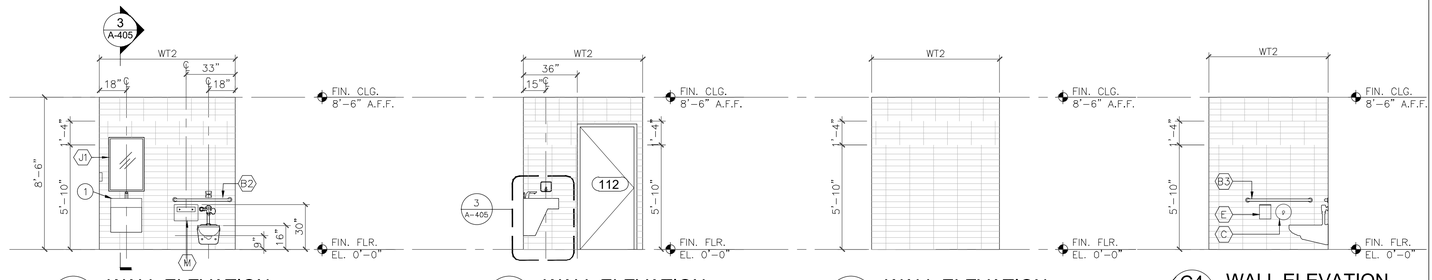
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Checked by	LU
Job No.	2241869

Drawing No.

A-313



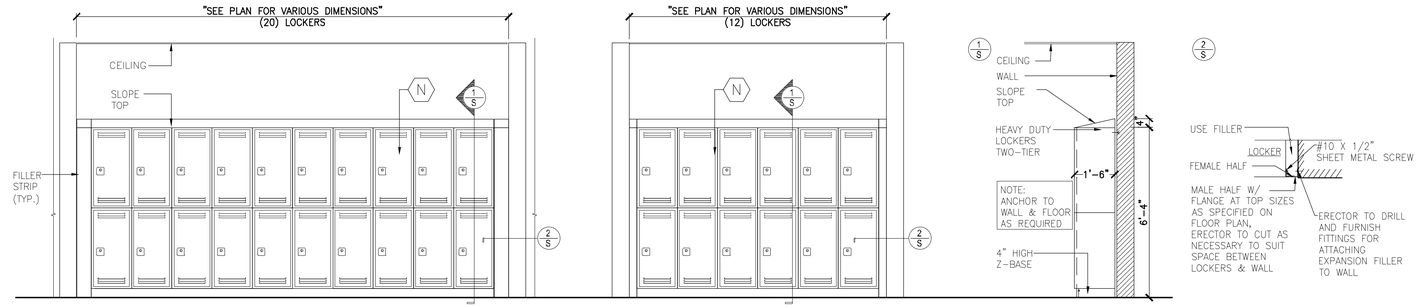


C1 A-401 WALL ELEVATION
1/4" = 1' - 0"
LOCATION: TYP. UNISEX RESTROOM

C2 A-401 WALL ELEVATION
1/4" = 1' - 0"
LOCATION: TYP. UNISEX RESTROOM

C3 A-401 WALL ELEVATION
1/4" = 1' - 0"
LOCATION: TYP. UNISEX RESTROOM

C4 A-401 WALL ELEVATION
1/4" = 1' - 0"
LOCATION: TYP. UNISEX RESTROOM



C5 A-401 TWO-TIER LOCKER WITH SLOPE TOP
SCALE: 3/8" = 1'-0"

C6 A-401 TWO-TIER LOCKER WITH SLOPE TOP
SCALE: 3/8" = 1'-0"

A A-401 ENLARGED TOILET RM & LOCKER RM. FLOOR PLAN

SCALE: 3/8"=1'-0"

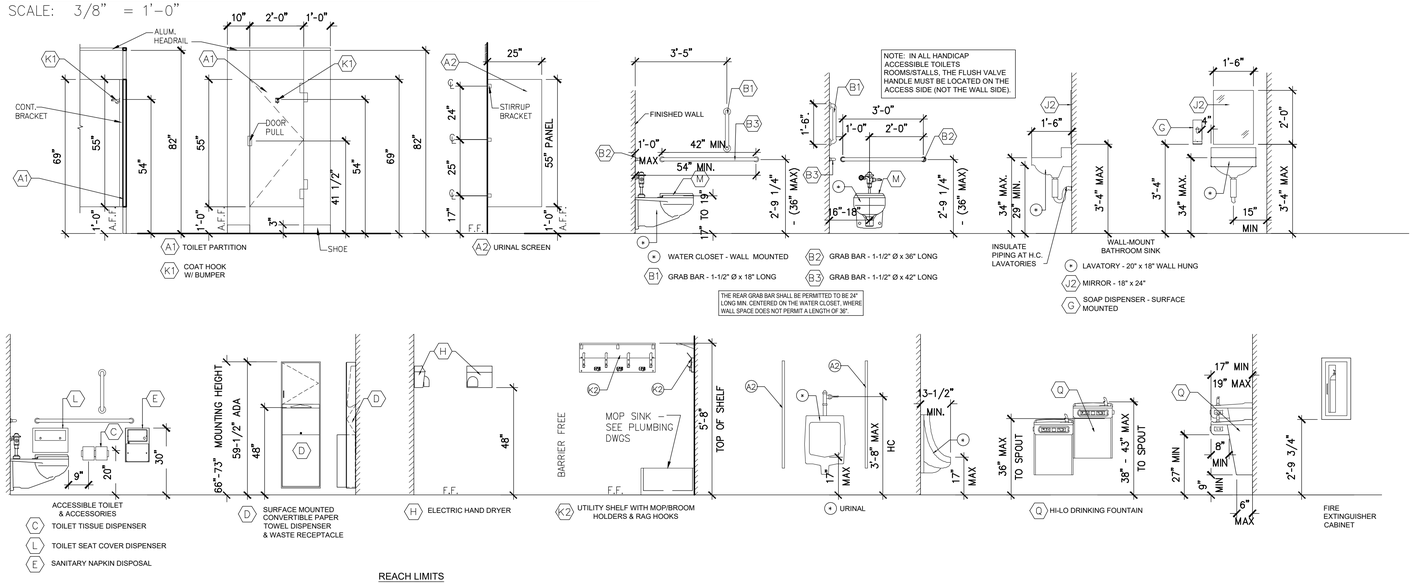
BASIS OF DESIGN FOR TOILET ACCESSORIES

ITEM	PRODUCT NAME	DESCRIPTION	MANUFACTURER	MODEL #	REMARKS
A1	TOILET PARTITIONS (TP1*)	FLOOR-MOUNTED OVERHEAD-BRACED	ASI		SEE FINISH SCHEDULE
A2	URINAL SCREENS (TP1*)	24"x55" WALL HUNG	ASI		SEE FINISH SCHEDULE
A3	LOCKER BENCHES	1 1/4" HARDWOOD BENCH - 60" LONG; 2 FLOOR ANCHORED TUBE POWDER COATED STEEL PEDESTALS. COLOR: MIST GREEN #06.	ASI STORAGE SOLUTIONS		SEE FINISH SCHEDULE. PROVIDED BY GC
B1	18" GRAB BARS	1½" O.D. ST/STL. WITH CONCEALED MOUNTING	BOBRICK	B-5806 x 18	STAINLESS STL. SATIN FINISH
B2	36" GRAB BARS	1½" O.D. ST/STL. WITH CONCEALED MOUNTING	BOBRICK	B-5806 x 36	STAINLESS STL. SATIN FINISH
B3	42" GRAB BARS	1½" O.D. STAINLESS STL. WITH CONCEALED MOUNTING	BOBRICK	B-5806 x 42	STAINLESS STL. SATIN FINISH
C	TOILET TISSUE DISPENSER	SURFACE-MOUNTED DOUBLE ROLL TOILET TISSUE DISPENSER	BOBRICK	B-6867	STAINLESS STL. SATIN FINISH
D	PAPER TOWEL DISPENSER	SURFACE-MOUNTED DISPENSER & WASTE RECEPTACLE	BOBRICK	B-76867	STAINLESS STL. SATIN FINISH
F	WASTE RECEPTACLE	FLOOR STANDING WITH ST. STL. COVER	BOBRICK	B-2250	STAINLESS STL. SATIN FINISH
G	SOAP DISPENSER	AUTOMATIC WALL-MOUNTED SOAP DISPENSER	BOBRICK	B-2012	STAINLESS STL. SATIN FINISH
J1	MIRROR	TEMPERED GLASS W/ POLISH ST/STL. CHANNEL FRAME	BOBRICK	B-2908 18"x24"	*SEE WALL ELEVATIONS
J1	MIRROR	TEMPERED GLASS W/ POLISH ST/STL. CHANNEL FRAME	BOBRICK	B-2908 18"x24"	*SEE WALL ELEVATIONS
L	TOILET SEAT COVER DISPENSER	ConturaSeries® SURFACE-MOUNTED SEAT-COVER DISPENSER ST/STL.	BOBRICK	B-4221	SATIN FINISH, PROVIDED BY OWNER
M	TOILET SEAT	Stronghold COMMERCIAL HEAVY-DUTY TOILET SEAT	KOHLER	K-4731-C	WHITE
N	TWO (2) TIER LOCKERS	18"W X 18" D X 36" H HORIZONTAL TWO (2) TIER LOCKERS WITH IN-DOOR COMBINATION LOCKS, LOCKER BASE, LOUVERS & SLOPE TOP	ASI STORAGE SOLUTIONS		SEE FINISH SCHEDULE.
Q	BOTTLE FILLING STATION W/ FILTERED LZ COOLER	EZH2O BOTTLE FILLING STATION WITH FILTERED SINGLE LZ COOLER	ELKAY	LVRCTL8WSK	STAINLESS FINISH, TYPICAL FOR ALL DRINKING STATIONS

A.D.A.
1. ALL ACCESSIBLE FACILITIES ON THESE PLANS HAVE BEEN DESIGNED TO MEET ALL STATE, COUNTY, AND MUNICIPALITY CODES APPLICABLE.
2. BUILDING ENTRANCE SHALL BE ON AN ACCESSIBLE ROUTE WITH A MAXIMUM SLOPE OF 1:20 (5%) WHERE SLOPE ALONG ROUTE AND MAXIMUM LEVEL CHANGE OF 3/4" AT SLIDING EXTERIOR DOORS ONLY.
3. ALL ENTRY DOORS IN UNITS SHALL PROVIDE A CLEAR OPENING OF 32" WIDE WHEN DOOR IS OPEN AT 90 DEGREES.
4. LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS ARE TO BE LOCATED WITH OPERABLE PARTS NO HIGHER THAN 48" AND NO LOWER THAN 15" ABOVE THE FINISHED FLOOR. IF REACH IS OVER AN OBSTRUCTION, SUCH AS A CABINET, HEIGHT SHALL BE 44" FOR FORWARD APPROACH (NOTE: OBSTRUCTIONS MAY NOT EXTEND MORE THAN 20" FROM WALL).
5. BATHROOMS SHALL BE PROVIDED WITH REINFORCEMENT IN WALLS TO ALLOW LATER INSTALLATION OF GRAB BARS ADJACENT TO THE WATER CLOSET. SUCH REINFORCEMENT SHALL BE INSTALLED ACCORDING TO THE ILLUSTRATIONS SHOWN. PARALLEL APPROACH BY A WHEELCHAIR MUST BE PROVIDED IN FRONT OF LAVATORIES. IF PARALLEL APPROACH IS NOT PROVIDED, KNEE CLEARANCE SHALL BE MADE REMOVABLE TO ALLOW FORWARD APPROACH KNEE CLEARANCE. WHERE DOOR SWINGS INTO BATHROOM THERE MUST BE A CLEAR FLOOR SPACE OF 30"x48" TO POSITION A WHEELCHAIR WITHIN BATHROOM. TOILET SHALL BE LOCATED AS FAR AS TO ALLOW A GRAB BAR TO BE INSTALLED ON ONE SIDE OF FIXTURE. REFER TO DIAGRAMS ON THIS SHEET.
6. IN LIEU OF THE FACT THAT ALL ACCESSIBILITY CODES CHANGE AND ARE INTERPRETED DIFFERENTLY BY AND/OR WITHIN EACH AND EVERY JURISDICTION HAVING AUTHORITY OVER THE SAME, AND THAT DESIGNING SUCH FACILITIES IS IMPOSSIBLE IN THAT THERE ARE NO UNIFORM STANDARDS FOR SUCH USAGE CONSTANTLY, IT SHALL BE REQUIRED THAT THE CONTRACTOR DETERMINE, PRIOR TO CONSTRUCTION OF ACCESSIBLE FACILITIES, EXACTLY WHO WILL BE THE FINAL AUTHORITY REGARDING THE DESIGN. THE CONTRACTOR SHALL SUBMIT THE DESIGN OF FACILITIES SHOWN ON THESE PLANS WITH THE FINAL AUTHORITY AND NOTIFY THE ARCHITECT OF ANY REQUIRED CHANGES. THIS NOTIFICATION IN WRITING, SHALL HAVE THE MARK OF THE FINAL AUTHORITY STAMPED ON IT, AND SHALL INCLUDE THE NAME, ADDRESS, PHONE NUMBER, AND SIGNATURE.
7. LAVATORY COUNTERTOP HEIGHT TO BE 34" A.F.F. WITH A MINIMUM CLEARANCE OF 29" A.F.F. TO THE BOTTOM OF THE APRON. ALL LAVATORIES TO HAVE SKIRTS.
8. FAUCETS TO BE LEVER-OPERATED, PUSH TYPE, OR ELECTRONICALLY CONTROLLED MECHANISMS. IF SELF-CLOSING VALVES ARE USED THE FAUCET SHALL REMAIN OPEN FOR AT LEAST 10 SECONDS.
9. ALL ACCESSIBLE TOILET STALL DOORS MUST HAVE A SELF-CLOSING FEATURE OR PULL LATCH MOUNTED AT THE CENTER OF THE PARTITION DOOR.
10. WATER CLOSET AND URINAL FLUSH CONTROLS MUST BE 44" MINIMUM A.F.F. CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. CONTROLS MUST BE MECHANICAL OR ELECTRONIC TYPE THAT DO NOT REQUIRE TIGHT GRASPING PINCHING OR TWISTING OF WRIST. FORCE REQUIRED TO ACTIVATE CONTROLS MUST BE NO GREATER THAN 5 LBS.
11. ACCESSIBLE TOILET AND BATHROOM MUST BE IDENTIFIED BY A SIGN SHOWING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.
12. SWITCHES AND THERMOSTATS SHALL BE LOCATED ADJACENT TO A WALL EDGE OR A DOOR JAMB. SWITCHES SHALL BE GANGED WHEREVER POSSIBLE.
13. BACKING FOR GRAB BARS SHALL BE 12 GAUGE STEEL. GRAB BARS SHALL BE CAPABLE OF 250 LBS. LOAD IN ANY DIRECTION, OR IN COMPLIANCE W/ LATEST CODE.
14. ALL PLUMBING FIXTURES IN CONTACT WITH THE WALLS OR FLOOR SHALL HAVE A CONTINUES BEAD OF CAULK.

STANDARD MOUNTING HEIGHT FOR TOILET ACCESSORIES

SCALE: 3/8" = 1'-0"



A1 TOILET PARTITION
K1 COAT HOOK W/ BUMPER

A2 URINAL SCREEN

B1 GRAB BAR - 1-1/2" Ø x 18" LONG
B2 GRAB BAR - 1-1/2" Ø x 36" LONG
B3 GRAB BAR - 1-1/2" Ø x 42" LONG

WATER CLOSET - WALL MOUNTED

LAVATORY - 20" x 18" WALL HUNG
J2 MIRROR - 18" x 24"
G SOAP DISPENSER - SURFACE MOUNTED

ACCESSIBLE TOILET & ACCESSORIES
C TOILET TISSUE DISPENSER
L TOILET SEAT COVER DISPENSER
E SANITARY NAPKIN DISPOSAL

D SURFACE MOUNTED CONVERTIBLE PAPER TOWEL DISPENSER & WASTE RECEPTACLE

H ELECTRIC HAND DRYER

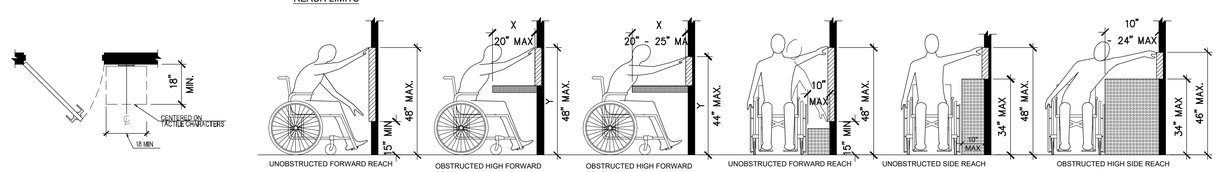
K2 UTILITY SHELF WITH MOP/BROOM HOLDERS & RAG HOOKS

A2 URINAL

Q HI-LO DRINKING FOUNTAIN

FIRE EXTINGUISHER CABINET

REACH LIMITS



ENLARGED TOILET PLANS, ELEVATIONS , SCHEDULE & MOUNTING HEIGHTS

A-401

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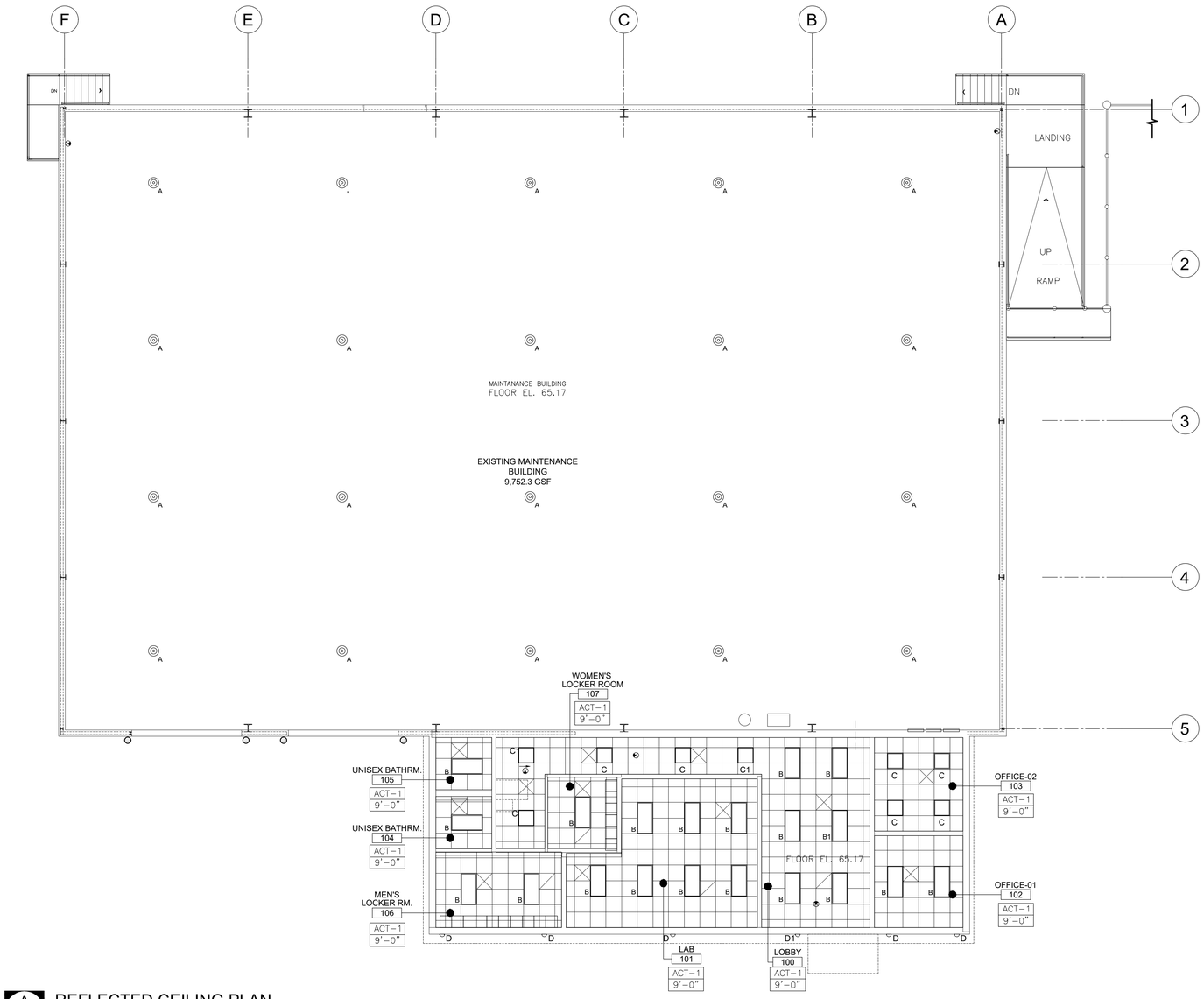
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Drawing No.	



A
A-601
REFLECTED CEILING PLAN
SCALE: 1/8" = 1' - 0"

LUMINAIRE **REFER TO LIGHTING FIXTURE CUTSHEETS FOR COMPLETE CATALOG NUMBERS**

Symbol	Arrangement	Fixture Type	Fixture Description	Manufacturer	Catalog Number	CCT	LLF	Total Watts	Delivered Lumens	Filename
	Single	B	2X4 RECESSED TROFFER, SELECTABLE CCT & OUTPUT, CALCULATED W/ LOW OUTPUT	NORA LIGHTING	NPDBLSW-E24-/334-W	3500	0.900	33.26	4602	NPDBLSW-E24334W 36W 3500K_.IES
	Single	B1	2X4 RECESSED TROFFER, SELECTABLE CCT & OUTPUT, CALCULATED W/ LOW OUTPUT & BATTERY BACKUP	NORA LIGHTING	NPDBLSW-E24-/334-W-EM	3500	0.900	33.26	4602	NPDBLSW-E24334W 36W 3500K_.IES
	Single	C	2X2 RECESSED TROFFER, SELECTABLE CCT & OUTPUT, CALCULATED W/ LOW OUTPUT	NORA LIGHTING	NPDBLSW-E22-/334-W	3500	0.900	23.37	3127	NPDBLSW-E22334W 25W 3500K_.IES
	Single	C1	2X2 RECESSED TROFFER, SELECTABLE CCT & OUTPUT, CALCULATED W/ LOW OUTPUT & BATTERY BACKUP	NORA LIGHTING	NPDBLSW-E22-/334-W-EM	3500	0.900	23.37	3127	NPDBLSW-E22334W 25W 3500K_.IES
	Single	D	EXTERIOR SCONCE LIGHTING	COOPER LIGHTING	GAW-SA1C-740-U-5WQ-BK	4000		34	3880	
	Single	D1	EXTERIOR SCONCE LIGHTING W/ BATTERY BACKUP	COOPER LIGHTING	GAW-SA1C-740-U-5WQ-BK-CBP	4000		34	3880	
	Single	A	EXISTING LIGHTING FIXTURE TO REMAIN							
	Single	EX	TELESIS UNIVERSAL LED EDGELIT EXIT SIGN	EVENLITE	TEXZ-EM-R-URC			RED 2.5 Watts		

GENERAL NOTE: GC TO INSTALL MANUAL ON OCCUPANCY SENSORS IN ROOMS IN ADDITION TO MANUAL WALL SWITCHES. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.

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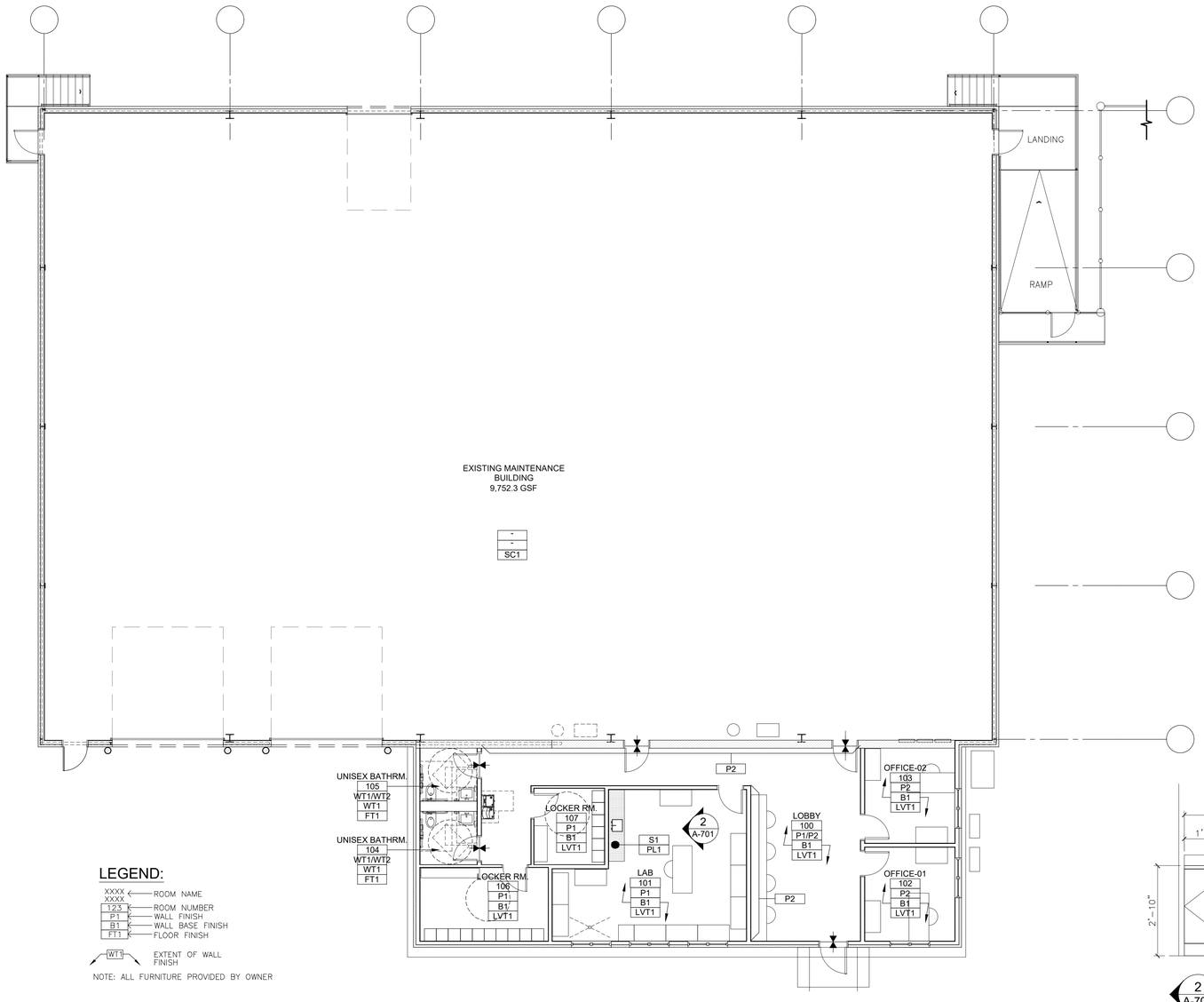
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Drawing No.

A-601



LEGEND:

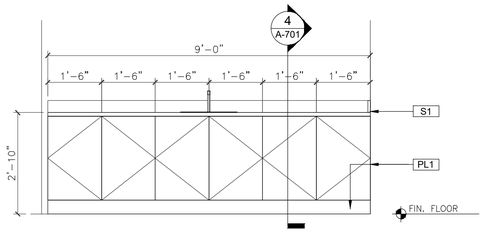
XXXX / XXXX ← ROOM NAME
123 ← ROOM NUMBER
P1 ← WALL FINISH
B1 ← WALL BASE FINISH
FT1 ← FLOOR FINISH
WT1 ← EXTENT OF WALL FINISH

NOTE: ALL FURNITURE PROVIDED BY OWNER

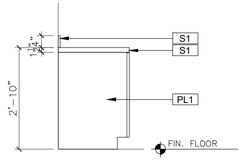
1 A-701 **FIRST FLOOR FINISH PLAN**
SCALE: 1/8"=1'-0"

FINISH SCHEDULE

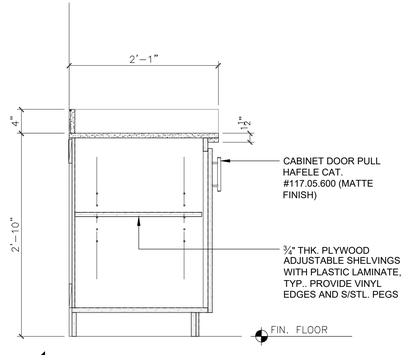
	MATERIAL	TYPE	DESCRIPTION	MANUFACTURER	CONTACT	REMARKS
FLOOR	PORCELAIN TILE	FT1	24"X24"x3/8" PORCELAIN TILE. COLLECTION: CEPPO. COLOR: GREY. FINISH: NATURAL. GROUT: MAPEI 5103 COBBLESTONE.	HIGHSTYLE STONE & TILE	MOSHE WEISS 646.558.2491	
	LUXURY VINYL TILE	LVT1	20MIL WEAR LAYER 5MM OVERALL THICKNESS LUXURY VINYL TILE. COLLECTION: CLASSIC ROCK. SIZE: 18"X36". COLOR: PUNK ROCK 802124.	BENTLEY MILLS	SUSAN LANE 201.650.1977	
	CARPET TILE	CT1	18" X 36" CARPET TILE. STYLE: HIMITSU NI 4HM20. COLOR: REMOTE 403751. BACKING: AFORMA HARDBACK.	BENTLEY MILLS	SUSAN LANE 201.650.1977	
	SEALED CONCRETE	SC1	ASHFORD FORMULA	CURE CRETE, INC.	800.998.5664	POWER WASH EXISTING CONCRETE TO BARE CONCRETE IS REQUIRED.
BASE	RUBBER BASE	B1	4" RUBBER WALL BASE COLOR: 48 GREY WG.	TARKETT	KAREN LEVEY-LYNCH TEL: 917.797.5697	
WALL	PAINT	P1	PROMAR 400 ZERO VOC INTERIOR LATEX PAINT. EG-SHEL FINISH. COLOR: SW9166 DRIFT OF MIST.	SHERWIN WILLIAMS	DOUGLAS J. DERKACS 908.309.8709	
		P2	PROMAR 400 ZERO VOC INTERIOR LATEX PAINT. EG-SHEL FINISH. COLOR: SW7023 REQUISITE GRAY.	SHERWIN WILLIAMS	DOUGLAS J. DERKACS 908.309.8709	
	CERAMIC TILE	WT1	4"X16" CERAMIC TILE. COLLECTION: NOHO. COLOR: LOFT GREY. FINISH: NATURAL. GROUT: MAPEI 5077 FROST.	HIGHSTYLE STONE & TILE	MOSHE WEISS 646.558.2491	FIELD TILE. HORIZONTAL GRID PATTERN
		WT2	4"X16" CERAMIC TILE. COLLECTION: NOHO. COLOR: RETRO BLACK. FINISH: NATURAL. GROUT: MAPEI 5077 FROST.	HIGHSTYLE STONE & TILE	MOSHE WEISS 646.558.2491	ACCENT TILE. HORIZONTAL GRID PATTERN
	METAL INSULATED PANEL	WP1	NUCOR CENTRIA VERSAWALL OR APPROVED EQUAL 2.5" THK. COLOR: 177 SLATE BLUE. OWNER RESERVES RIGHT TO APPROVE COLOR	NUCOR	FRANK HILAS CELL: 718.314.4529	OFFICE BUILDING WALLS
	METAL INSULATED PANEL	WP2	NUCOR CENTRIA VERSAWALL OR APPROVED EQUAL - 2.5" THK. COLOR: 9910 LIGHT SEAWOLF. OWNER RESERVES RIGHT TO APPROVE COLOR	NUCOR	FRANK HILAS CELL: 718.314.4529	MAINTENANCE BUILDING WALLS
CEILING	ACOUSTIC CEILING PANEL	ACT1	24"x24"x7/8" ULTIMA HIGH NRC SQUARE LAY-IN. PRODUCT: 1940. COLOR: WHITE.	ARMSTRONG	ANNA KING 551.775.4364	
	SUSPENDED SYSTEM	SS1	15/16" PRELUDE TEE SYSTEM. COLOR: WHITE	ARMSTRONG	ANNA KING 551.775.4364	
	PAINT	CP1	PRO INDUSTRIAL MULTI-SURFACE ACRYLIC EGG-SHELL. B66-1560 SERIES. COLOR: SW7006 EXTRA WHITE.	SHERWIN WILLIAMS	DOUGLAS J. DERKACS 908.309.8709	EXISTING STEEL JOISTS AND PIPES
DOOR & DOOR FRAME	WOOD DOOR	D1	ASPIRO SERIES. SPECIES: PLAIN SLICED WHITE MAPLE. STAIN COLOR: CLEAR.	MASONITE	877.332.4484	
	METAL DOOR PAINT	DP1	EMERALD URETHANE TRIM ENAMEL PAINT. SATIN FINISH. COLOR: SW7005 PURE WHITE.	SHERWIN WILLIAMS	DOUGLAS J. DERKACS 908.309.8709	
	METAL FRAME PAINT	DP2	EMERALD URETHANE TRIM ENAMEL PAINT. SATIN FINISH. COLOR: SW7005 PURE WHITE.	SHERWIN WILLIAMS	DOUGLAS J. DERKACS 908.309.8709	
SPECIALTY	LOCKER	L1	TRADITIONAL PLUS COLLECTION. DOUBLE TIER LOCKER 12" W X 18" D X 72" H (+4" Z-BASE). COLOR: MIST GREEN #06.	ASI STORAGE SOLUTIONS	PAUL KECHEJIAN 203-424-6821	
	BENCH		1 1/4" HARDWOOD BENCH - 60" LONG: 2 FLOOR ANCHORED TUBE POWDER COATED STEEL PEDESTALS. COLOR: MIST GREEN #06.	ASI STORAGE SOLUTIONS	PAUL KECHEJIAN 203-424-6821	LOCATED LOCKER ROOM, TO BE PROVIDED BY GC
COUNTERTOP	SOLID SURFACE	S1	MONTE AMIATA 9911SS	WILSONART	MIGUEL F. MOSQUERA 551.329.8364	
MILLWORK	PLASTIC LAMINATE	PL1	SILK VELVET 15513-31	WILSONART	MIGUEL F. MOSQUERA 551.329.8364	
ROOFING	METAL INSULATED PANEL	RF1	NUCOR CENTRIA VERSAPANEL ROOF OR APPROVED EQUAL - 4" THK. COLOR: 1/S REGAL WHITE. OWNER RESERVES RIGHT TO APPROVE COLOR	NUCOR	FRANK HILAS CELL: 718.314.4529	MAINTENANCE BUILDING WALLS



2 A-701 **LAB. SINK CABINET ELEV.**
SCALE: 1/2" = 1'-0"
NOTE: REFER TO FINISH SCHEDULE



3 A-701 **LAB. SINK CABINET SIDE ELEV.**
SCALE: 1/2" = 1'-0"
NOTE: REFER TO FINISH SCHEDULE



4 A-701 **TYP. LAB. CABINET SECTION**
SCALE: 1" = 1'-0"

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SHEET CONTENTS:

FINISH & FURNITURE PLAN

PROJECT TITLE:

ADDITIONS AND ALTERATIONS
BURLINGTON COUNTY DEPT. OF PUBLIC WORKS
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:
2025.04.25 - ISSUED FOR BID

DATE	REVISIONS	BY	CHKD

Date	04.09.24
Scale	AS SHOWN
Drawn by	MR
Checked by	LU
Job No.	2241869

Drawing No.

A-701

GENERAL NOTES

DESIGN CRITERIA

1. LIVE LOAD:

   A. ROOF LIVE LOAD 20 PSF
   B. FLOOR LIVE LOAD 150 PSF

2. DEAD LOAD:

   A. STRUCTURAL AND BUILDING COMPONENTS SELF WEIGHT

3. WIND LOADING PER IBC 2021 – NEW JERSEY EDITION:

   A. BASIC WIND VELOCITY (V): 126 MPH
   B. EXPOSURE CATEGORY: C
   C. RISK CATEGORY: III

4. SEISMIC LOADING PER IBC 2021 – NEW JERSEY EDITION:

   A. RESPONSE ACCELERATOR:
      S_S = 0.185 S_{DS} = 0.197
      S_1 = 0.048 S_{D1} = 0.076
   B. SEISMIC DESIGN CATEGORY: B
   C. SEISMIC SITE CLASSIFICATION: D
   D. IMPORTANCE FACTOR I_E: 1.25

5. SNOW LOADING PER IBC 2021 – NEW JERSEY EDITION:

   A. GROUND SNOW LOAD: 25 PSF
   B. IMPORTANCE FACTOR: 1.1

6. SPECIAL LOADS:

   A. HANDRAILS/GUARDRAILS: IN COMPLIANCE WITH THE PROVISIONS OF IBC 2021 – NEW JERSEY EDITION SEE PROJECT SPECIFICATIONS.

FOUNDATIONS

1. ALL EXISTING FILL MATERIALS, CONSISTING OF GRAVEL, BRICK FRAGMENTS, CONCRETE CHIPS, WOOD CHIPS, AND DEMOLITION DEBRIS SHALL BE REMOVED IN THE REGIONS OF ALL FOUNDATIONS AND UNDER AREAS OF SLAB–ON–GRADE.
2. THE SLAB ON GRADE SHALL REST ON A MINIMUM OF 6 INCHES OF COMPACTED GRANULAR FILL.
3. PROOF ROLL SLAB SUBGRADE UNDER THE DIRECTION OF THE INSPECTION AGENCY. REMOVE ALL UNSUITABLE AREAS AND REPLACE WITH COMPACTED STRUCTURAL FILL MATERIALS. COMPACT FILL TO AT LEAST 95 PERCENT OF THE MAXIMUM DENSITY AS DETERMINED BY THE ASTM D 1557 MODIFIED PROCTOR TEST.
4. EDGES OF FOOTINGS SHALL NOT BE PLACED AT A GREATER THAN 1 (VERTICAL) TO 2 (HORIZONTAL) SLOPE WITH RESPECT TO ANY ADJACENT FOOTING OR EXCAVATION.
5. ALL ADJACENT COLUMN FOOTINGS THAT ABUT SHALL BE SEPARATED BY A PAPER JOINT.
6. BACKFILLING AGAINST WALLS SHALL NOT BE DONE UNTIL CONCRETE HAS BEEN CURED TO ATTAIN SUFFICIENT STRENGTH (7 DAYS MINIMUM) AND WALLS ARE PROPERLY SHORED AND/OR BRACED. BACKFILL FOUNDATION WALLS WITH EARTH ON BOTH SIDES OF THE WALL BY ALTERNATELY PLACING BACKFILL ON EACH SIDE SO THAT HEIGHT OF BACKFILL DOES NOT DIFFER BY MORE THAN 1'–6" FROM OTHER SIDE.
7. THE CONTRACTOR SHALL SAFEGUARD AND PROTECT ALL EXCAVATIONS AND ALL EXCAVATIONS SHALL BE KEPT FREE OF WATER.
8. NO HORIZONTAL JOINTS SHALL BE PLACED IN WALLS EXCEPT AS SHOWN ON THE DRAWINGS WITHOUT APPROVAL OF THE ENGINEER.
9. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ALL LOCATIONS OF TRENCHES, PITS, CONDUITS, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS.

FOUNDATION CONCRETE

1. ALL CONCRETE SHALL BE NORMAL WEIGHT STRUCTURAL CONCRETE HAVING A DESIGN COMPRESSIVE STRENGTH AT 28 DAYS AS FOLLOWS:

   A. FOOTINGS 4,000 PSI
   B. WALLS AND PIERS 4,000 PSI
   C. SLAB–ON–GRADE 4,000 PSI

2. NO CONCRETE SHALL BE PLACED UNTIL CONCRETE DESIGN MIXES HAVE BEEN SUBMITTED FOR EACH CLASS OF CONCRETE NOTED ABOVE AND HAVE BEEN APPROVED BY THE ENGINEER.
3. REINFORCING STEEL SHALL BE DEFORMED BARS OF INTERMEDIATE GRADE NEW BILLET STEEL CONFORMING TO CURRENT REQUIREMENTS OF ASTM A 615, GRADE 60. LAP BARS 40 DIAMETER UNLESS OTHERWISE SHOWN. ALL HOOKS SHALL BE STANDARD HOOKS, UNLESS OTHERWISE NOTED.
4. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185.
5. ALL MESH SHALL BE SPLICED SO THAT THE OVERLAP OF THE OUTERMOST CROSS WIRES OF EACH ADJOINING SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRES PLUS 2 INCHES, UNLESS NOTED OTHERWISE.
6. FOR ALL SLABS ON GRADE WHERE NOT OTHERWISE SPECIFIED, USE 6x6–W2.9xW2.9 W.W.F.
7. MINIMUM STEEL PROTECTION, UNLESS OTHERWISE SHOWN, SHALL BE 1–INCH FOR INTERIOR FACE OF WALLS, 2 INCHES FOR EXTERIOR FACE OF WALLS, 3 INCHES FOR FOOTINGS AND OTHER STRUCTURAL CONCRETE DEPOSITED AGAINST GROUND, 2 INCHES FOR CONCRETE PERMANENTLY EXPOSED TO EARTH OR WEATHER.
8. ALL STRUCTURAL MEMBERS SHALL BE POURED FOR THEIR FULL DEPTHS IN ONE OPERATION. CONSTRUCTION JOINTS, SUCH AS DAY'S POUR JOINTS, SHALL BE LOCATED IN THE MIDDLE THIRD OF THE SPAN, MAIN REINFORCING TO RUN THROUGH THE JOINT, KEY AND ROUGHEN JOINTS TO EXPOSE AGGREGATE. CONTRACTOR SHALL SUBMIT DRAWING INDICATING CONSTRUCTION JOINT LOCATIONS FOR APPROVAL.
9. NO CONCRETE SHALL BE PLACED IN WATER.
10. ALL SLABS ON GRADE SHALL HAVE THICKENINGS, DEPRESSIONS, OPENINGS, ETC. AS SHOWN ON OR AS REQUIRED BY VARIOUS TRADES.
11. REFER TO ARCHITECTURAL DRAWINGS AND/OR SPECIFICATIONS FOR CONCRETE FINISHES.
12. FOR ADDITIONAL CONCRETE WORK NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL DRAWINGS.

SUPERSTRUCTURE CONCRETE

1. ALL CONCRETE SHALL BE NORMAL WEIGHT STRUCTURAL CONCRETE HAVING A DESIGN COMPRESSIVE STRENGTH AS FOLLOWS:

   A. COLUMNS 4,000 PSI
   B. SLABS, BEAM 4,000 PSI
   C. WALLS 4,000 PSI

2. NO CONCRETE SHALL BE PLACED UNTIL CONCRETE DESIGN MIXES HAVE BEEN SUBMITTED FOR EACH CLASS OF CONCRETE NOTED ABOVE AND HAVE BEEN APPROVED BY THE ENGINEER.
3. REINFORCING STEEL SHALL BE DEFORMED BARS OF INTERMEDIATE GRADE NEW BILLET STEEL CONFORMING TO CURRENT REQUIREMENTS OF ASTM A 615, GRADE 60. LAP BARS 40 DIAMETER UNLESS OTHERWISE SHOWN. ALL HOOKS SHALL BE STANDARD HOOKS, UNLESS OTHERWISE NOTED.
4. MINIMUM STEEL PROTECTION, UNLESS OTHERWISE SHOWN, SHALL BE 3/4–INCH FOR SLABS, 1–INCH FOR INTERIOR FACE OF WALLS, 2–INCH FOR EXTERIOR FACE OF WALLS, 1 1/2–INCH FOR BEAM STIRRUPS AND COLUMN TIES, 2–INCH FOR VERTICAL COLUMN REINFORCING.
5. ALL STRUCTURAL MEMBERS SHALL BE POURED FOR THEIR FULL DEPTHS IN ONE OPERATION. CONSTRUCTION JOINTS, SUCH AS DAY'S POUR JOINTS, SHALL BE LOCATED IN THE MIDDLE THIRD OF THE SPAN, MAIN REINFORCING TO RUN THROUGH THE JOINT, KEY AND ROUGHEN JOINTS TO EXPOSE AGGREGATE. CONTRACTOR SHALL SUBMIT DRAWING INDICATING CONSTRUCTION JOINT LOCATIONS FOR APPROVAL.
6. NO OPENINGS SHALL BE MADE IN ANY STRUCTURAL MEMBER, UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS, WITHOUT APPROVAL FROM THE ENGINEER. NO SLEEVES SHALL BE PLACED HORIZONTALLY OR VERTICALLY IN BEAMS OR JOISTS, UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS, WITHOUT APPROVAL FROM THE ENGINEER.
7. CONTRACTOR SHALL SUBMIT A COORDINATED DRAWING SHOWING ALL SLEEVES, OPENINGS, BLOCKOUTS, ETC., AS REQUIRED BY ALL TRADES, FOR APPROVAL, PRIOR TO PLACING CONCRETE IN THAT AREA.
8. ALL SLABS SHALL HAVE THICKENINGS, DEPRESSIONS, OPENINGS, ETC. AS SHOWN HEREIN OR ON ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
9. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185.
10. ALL MESH SHALL BE SPLICED SO THAT THE OVERLAP BETWEEN OUTERMOST CROSS WIRES OF EACH SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRES PLUS 2 INCHES, UNLESS OTHERWISE SHOWN ON DRAWINGS.
11. FOR ALL SLABS WHERE NOT OTHERWISE SPECIFIED USE STYLE 6x6–W2.9xW2.9 W.W.F.
12. FOR ADDITIONAL CONCRETE WORK NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL DRAWINGS.
13. REFER TO ARCHITECTURAL DRAWINGS AND/OR SPECIFICATIONS FOR CONCRETE FINISHES.

MASONRY

1. HOLLOW CONCRETE MASONRY UNITS ASTM C90, GRADE N, TYPE 1 NORMAL WEIGHT 1900 PSI NET AREA COMPRESSIVE.
2. MORTAR SHALL BE ASTM C270, TYPE S FOR ALL REINFORCED MASONRY, EXTERIOR WALLS AND WALLS BELOW GRADE.
3. GROUT SHALL BE ASTM C476, 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI.
4. REINFORCING STEEL GRADE 60 REINFORCING BARS.
5. HORIZONTAL JOINT REINFORCEMENT ASTM A951.
6. STRENGTH OF MASONRY ASSEMBLY f'm = 1,500 PSI.
7. CONSTRUCTION SHALL CONFORM TO SPECIFICATIONS FOR MASONRY STRUCTURES, ACI 530.1
8. REINFORCING METAL TIES AND ANCHORS SHALL BE PROTECTED FROM CONTACT WITH SOIL AND BEFORE BEING PLACED SHALL BE FREE FROM LOOSE RUST AND OTHER COATINGS THAT WILL DESTROY OR REDUCE THE BOND. MINIMUM LAP SHALL BE 48 BAR DIAMETERS FOR REBAR AND 6" FOR JOINT REINFORCEMENT.
9. SHOP DRAWINGS SHOWING ALL BAR REINFORCING IN ELEVATION (1/8" TO 1'–0" MINIMUM SCALE) SHALL BE SUBMITTED AND REVIEWED PRIOR TO CONSTRUCTION.
10. ALL MASONRY WALLS TO HAVE 9 GAGE TRUSS TYPE HORIZONTAL REINFORCEMENT AT 16 INCHES ON CENTER.
11. MASONRY UNITS SHALL BE STEAM CURED, A MINIMUM OF 28 DAYS AT THE TIME OF DELIVERY AND CONTINUOUSLY PROTECTED FROM EXPOSURE TO RAIN OR OTHER SOURCES OF WATER FROM TIME OF CASTING TO FINAL PLACEMENT IN WALL. MASONRY UNITS SHALL BE DRY, FREE FROM SOIL, ICE AND FROST WHEN LAID IN WALL. SEE ACI 530.1 FOR COLD AND HOT WEATHER CONSTRUCTION AND WALL PROTECTION REQUIREMENTS.

LIGHT GAGE METAL FRAMING

1. ALL GALVANIZED MATERIAL SHALL CONFORM TO THE FOLLOWING:

   A. STUDS AND JOISTS OF 12, 14, AND 16 GAGE: ASTM A 446, GRADE D, FY=50,000 PSI MINIMUM

   B. STUDS AND JOISTS OF 18 AND 20 GAGE, TRACKS, BRIDGING, AND ACCESSORIES: ASTM 446, GRADE A, FY=33,000 PSI MINIMUM.

2. ALL GALVANIZED MATERIAL SHALL BE FORMED FROM STEEL HAVING A MINIMUM G–60 GALVANIZED COATING CONFORMING TO ASTM A 525.

WOOD FRAMING

1. PROVIDE ALL WOOD FRAMING MATERIALS AS SHOWN ON THE PLANS FOR COMPLETE CONSTRUCTION.
2. PROVIDE ALL MISCELLANEOUS WOOD FRAMING AND/OR BRACING AS REQUIRED FOR SUPPORT OF MECHANICAL, ELECTRICAL, PLUMBING OR MISCELLANEOUS APPURTENANCES.
3. ALL WOOD SHALL BE MINIMUM OF GRADE NO. 2 OR BETTER UNLESS OTHERWISE SHOWN.
4. ALL ROOF SHEATHING SHALL BE INSTALLED WITH PANEL CLIPS.
5. PRE–MANUFACTURED WOOD ROOF TRUSSES SHALL BE PROVIDED AS SHOWN ON THE DRAWINGS TO MEET REQUIRED OPENINGS FOR MISCELLANEOUS EQUIPMENT. TRUSS MANUFACTURER SHALL SUBMIT DESIGN DRAWINGS AND CALCULATIONS THAT COMPLY WITH REQUIRED DESIGN LOADS FOR APPROVAL PRIOR TO CONSTRUCTION PLANS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY LICENSED NEW JERSEY PROFESSIONAL ENGINEER.

DEMOLITION NOTES

1. REMOVE EXISTING CONSTRUCTION AS SHOWN ON PLANS. SEE SECTIONS AND DETAILS FOR EXTENT OF STRUCTURE TO BE REMOVED.
2. EXISTING STRUCTURAL STEEL FRAMING SHALL REMAIN UNLESS SPECIFICALLY NOTED ON PLAN TO BE REMOVED.
3. CONCRETE ENCASEMENT AROUND REMAINING STEEL WILL REMAIN, UNLESS NOTED OTHERWISE.
4. IF FIELD CONDITIONS DIFFER FROM THOSE SHOWN ON DRAWINGS, NOTIFY ENGINEER BEFORE PROCEEDING WITH DEMOLITION.

EXISTING CONSTRUCTION

1. ALL DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES SHOWN ON THE DRAWINGS ARE OBTAINED FROM AVAILABLE SOURCES AND ARE NOT GUARANTEED TO BE TRUE AND EXACT. THE CONTRACTOR SHALL VERIFY THESE DIMENSIONS AND ELEVATIONS BY ACTUAL FIELD MEASUREMENTS PRIOR TO FABRICATION OF ANY MATERIALS AND START OF WORK AND IMMEDIATELY REPORT ANY DISCREPANCIES TO THE ENGINEER.

MISCELLANEOUS

1. CONTRACTOR SHALL VERIFY CONDITIONS IN THE FIELD AND IMMEDIATELY NOTIFY ENGINEER OF ANY CONDITIONS NOT AS ASSUMED; HE SHALL TAKE FIELD MEASUREMENTS AS REQUIRED AND BE RESPONSIBLE FOR SAME.
2. CONTRACTOR SHALL COORDINATE WITH ALL RELATED TRADES FOR DETAILING, FABRICATION, AND ERECTION PRIOR TO SUBMITTING SHOP DRAWINGS FOR APPROVAL.
3. ALL STRUCTURAL WORK SHALL BE COORDINATED WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, ETC. REQUIREMENTS. DISCREPANCIES AND/OR INTERFERENCE SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
4. GENERAL CONTRACTOR TO PROVIDE APPROPRIATE NUMBER OF COPIES OF ONE COMPLETE COORDINATED DRAWING SHOWING ALL SLEEVES, CONDUIT BOXOUT, DUCT OPENINGS, ETC. AS REQUIRED FOR ALL TRADES FOR ENGINEER'S APPROVAL. THIS SHALL BE DONE A MINIMUM OF TWO WEEKS PRIOR TO POURING AFFECTED SLABS, COLUMNS, OR FOOTINGS.
5. NO OPENINGS SHALL BE MADE IN ANY STRUCTURAL MEMBER UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS OR OTHER APPROVAL FROM THE ENGINEER.
6. SUPPORT DETAILS FOR ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT IS BASED UPON AVAILABLE INFORMATION OF MANUFACTURER. CONTRACTOR SHALL COORDINATE REQUIREMENTS OF ACTUAL EQUIPMENT AND SHALL PROVIDE ANY ADDITIONAL REQUIRED FRAMING.

ABBREVIATIONS

E.F.	EACH FACE
WF1	WALL FOOTING
CMU	CONCRETE MASONRY UNIT
V.I.F.	VERIFY IN THE FIELD
O.C.	ON CENTER
E.W.	EACH WAY
T&B	TOP & BOTTOM
AL	ALUMINUM
CS	CARBON STEEL
SS	STAINLESS STEEL
CL	CENTER LINE
GALV.	GALVANIZED
T.O.M.	TOP OF MASONRY

STRUCTURAL DRAWING LIST

DRAWING #	DRAWING TITLE
S–100	STRUCTURAL COVER SHEET
S–101	FOUNDATION PLAN
S–102	TOP OF SLAB PLAN
S–103	LINTEL PLAN
S–104	ROOF FRAMING PLAN
S–201	STRUCTURAL COVER SHEET

RVE 1901
REMINGTON & VERNICK ENGINEERS
2059 SPRINGDALE ROAD,
CHERRY HILL, NJ 08003
(856) 795-9595, FAX (856) 795-1882
WEB SITE ADDRESS : WWW.RVE.COM
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DATE: 03-12-2025
KENNETH C. RESSLER
NJ PROFESSIONAL ENGINEER LIC. No. 34559

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SHEET CONTENTS:

STRUCTURAL COVER SHEET

PROJECT TITLE:

RENOVATION FOR MAINTENANCE BUILDING
BURLINGTON COUNTY
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

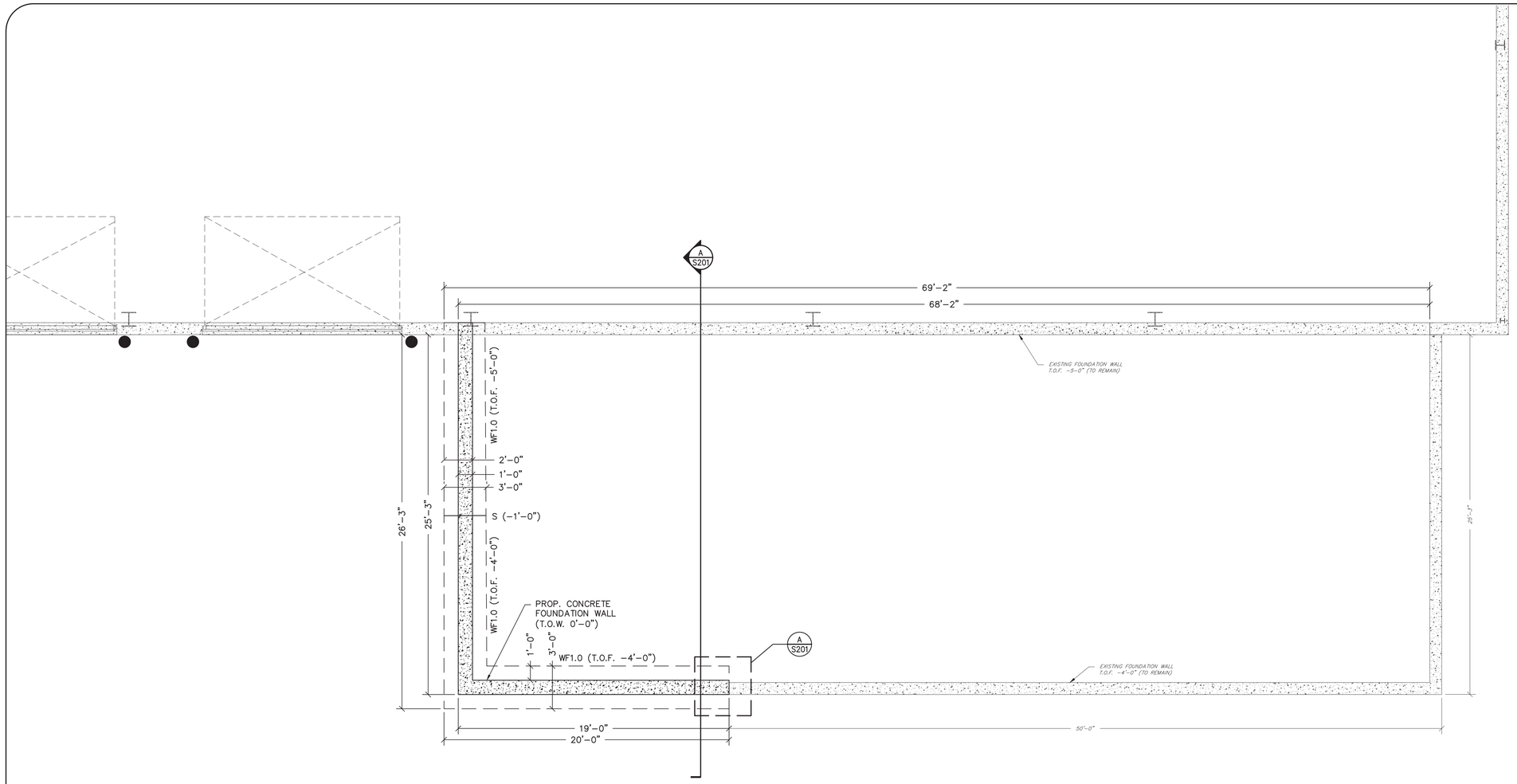
SUBMISSION:
XXX

DATE	REVISIONS	BY	CHKD

Date	04.09.24
Scale	
Drawn by	J.C.
Checked by	
Job No.	2241869

Drawing No.
S-100

p:\cadd projects\NJ\burlington co\burlington cnty cnty\mp086x015-mosquito maintenance bldg\MP086X015-S-1.dwg



1 / S-101 **FOUNDATION FLOOR PLAN**

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

(_____) INDICATES T/FTG. EL. SUBTRACTED FROM F.F., T/F.F. @ EL. 0'-0" (= XX.XX ON CIVIL DRAWINGS)

SECTIONS SHOWN IN PLAN APPLY TO SIMILAR CONDITIONS THROUGHOUT THE BLDG.

NOTE:
ALL EXISTING FOOTING ELEVATIONS TAKEN FROM TEST PIT ANALYSIS AND MEMORANDUM DATED 6-11-2024. CONTRACTOR SHALL VERIFY IN FIELD AT CONNECTION POINTS.

WALL FOOTING SCHEDULE

WF1.0
3'-0"W x 1'-0" THICK W/#5@12" O.C., T&B, & #5@12" O.C. T&B CONTINUOUS

0' 2' 4' 8'

1/4" = 1'-0"

RVE 1901
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DATE: 03-12-2025

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SHEET CONTENTS:

FOUNDATION PLAN

PROJECT TITLE:

RENOVATION FOR
MAINTENANCE BUILDING
BURLINGTON COUNTY
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:

XXX

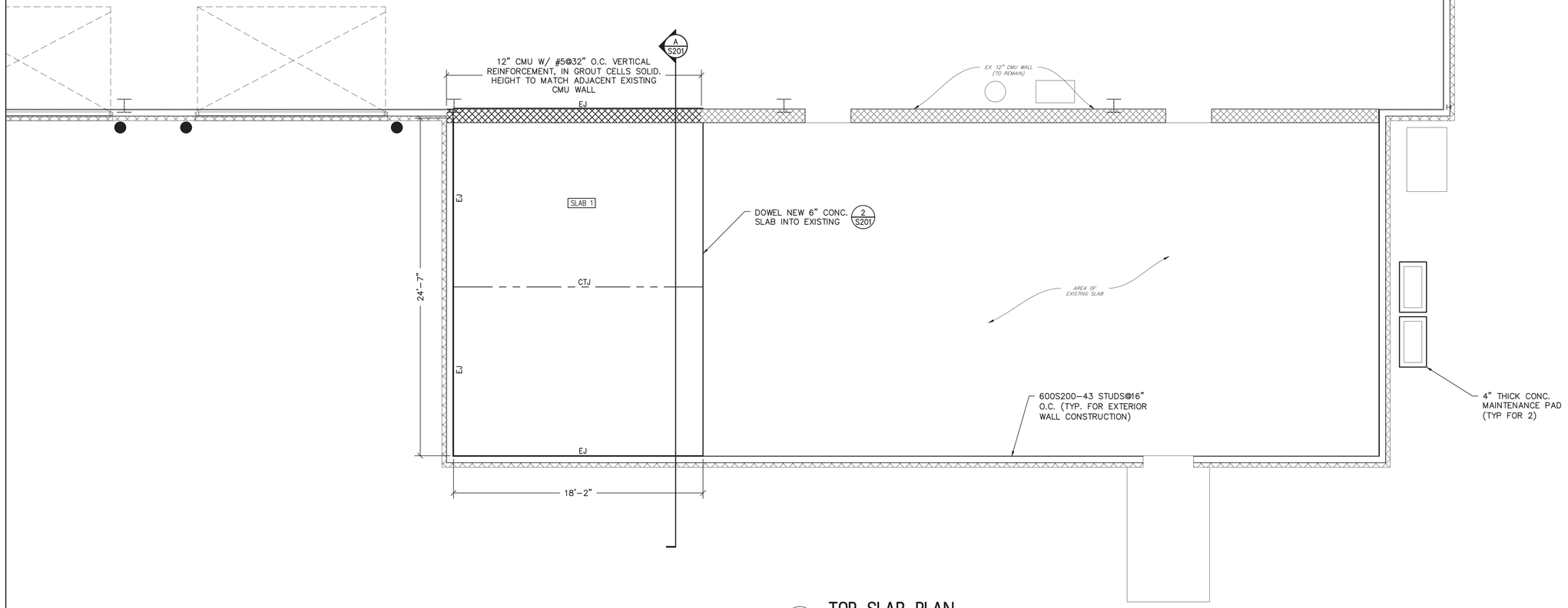
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Checked by	
Job No.	2241869

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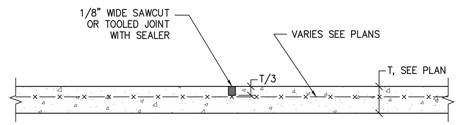
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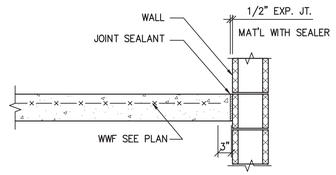


1 S-102 **TOP SLAB PLAN**
SCALE: 1/4"=1'-0"

SLAB ON GRADE SCHEDULE
SLAB-1
6" THICK S.O.G. W/ #5@12 O.C., E.W. W/ 6" CRUSHED STONE AND 10 MIL. VAPOR BARRIER



CONTROL JOINT 1 S102
SCALE: 3/4"=1'



EXPANSION JOINT 2 S102
SCALE: 3/4"=1'

LEGEND

CONTROL JOINT= CTJ

CONSTRUCTION JOINT= CJ

EXPANSION JOINT= EJ

0' 2' 4' 8'
1/4" = 1'-0"

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SHEET CONTENTS:

TOP OF SLAB PLAN

PROJECT TITLE:

RENOVATION FOR
MAINTENANCE BUILDING
BURLINGTON COUNTY
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

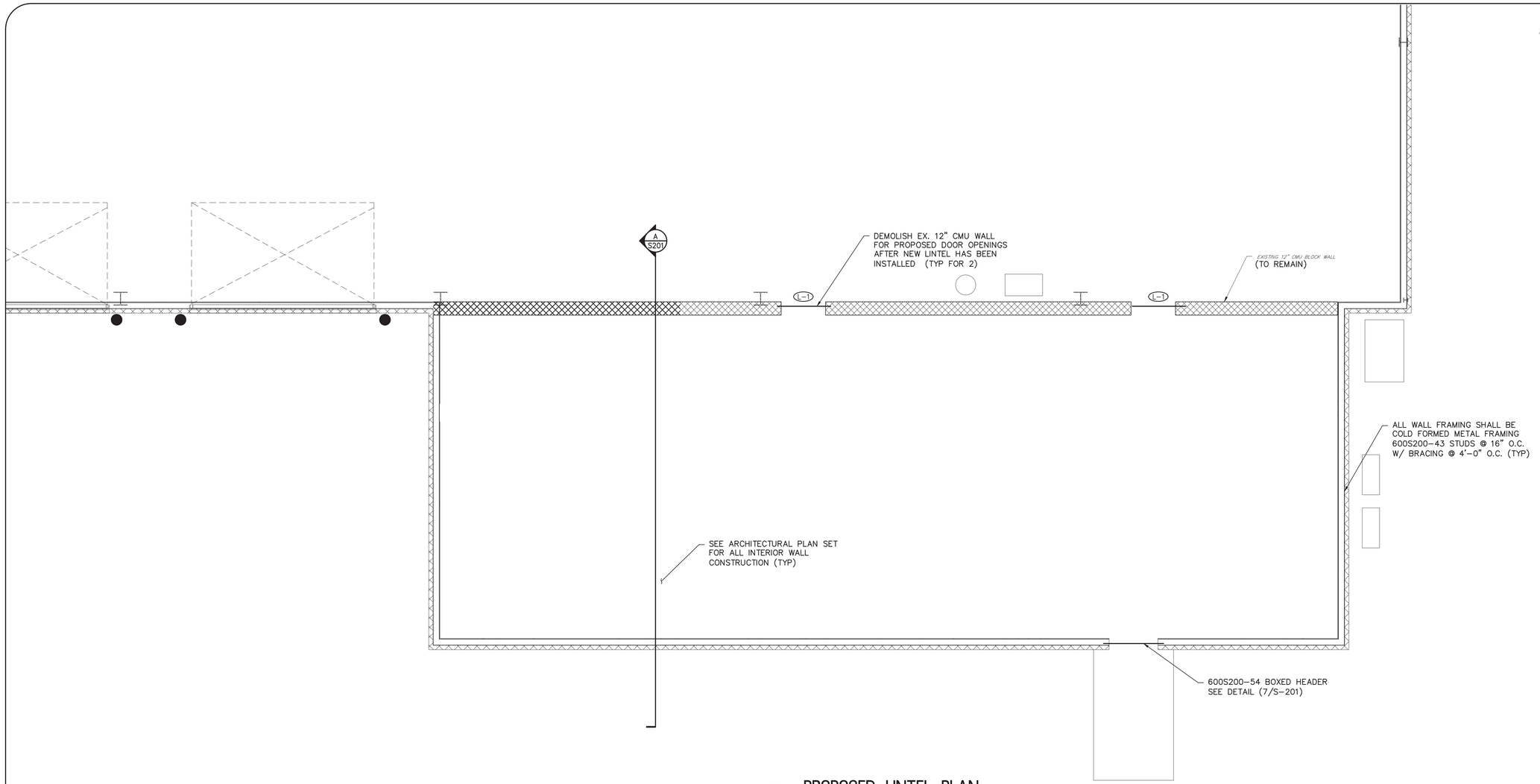
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DATE	REVISIONS	BY	CHKD

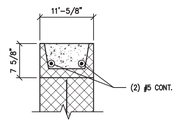
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S-102

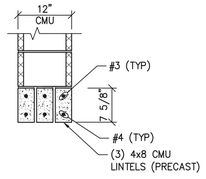
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1 / S-103 **PROPOSED LINTEL PLAN**
SCALE: 1/4"=1'-0"



BOND BEAM
N.T.S.



LINTEL L-1
N.T.S.

0' 2' 4' 8'
1/4" = 1'-0"

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SHEET CONTENTS:

LINTEL
FLOOR PLAN

PROJECT TITLE:

RENOVATION FOR
MAINTENANCE BUILDING
BURLINGTON COUNTY
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

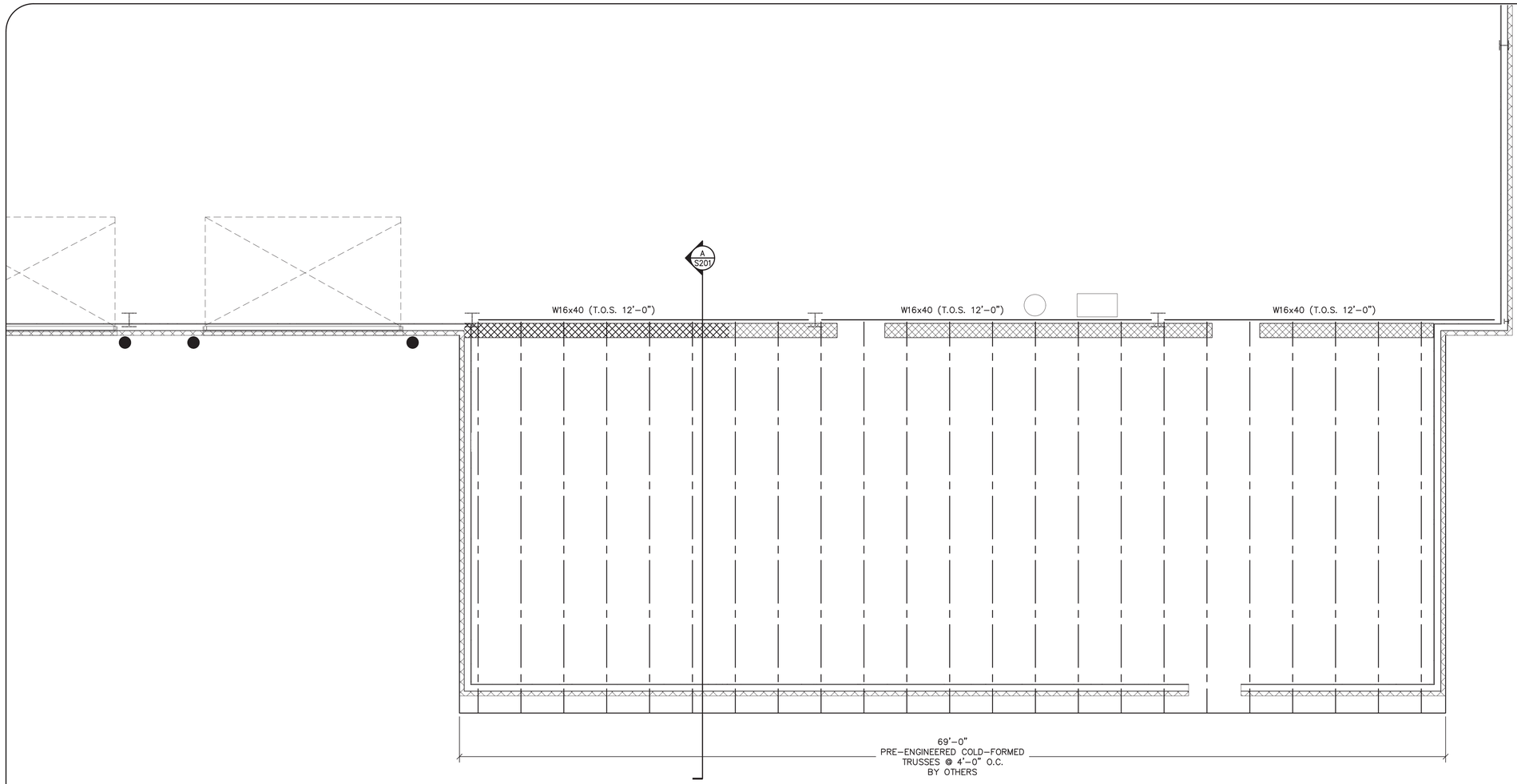
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DATE	REVISIONS	BY	CHKD

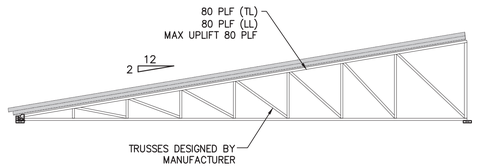
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Checked by	
Job No.	2241869

Drawing No.
S-103

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1 S–104 ROOF FRAMING PLAN
SCALE: 1/4"=1'-0"



TRUSS LOADING DIAGRAM
N.T.S.

0' 2' 4' 8'
1/4" = 1'–0"

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ROOF FRAMING PLAN

PROJECT TITLE:

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MAINTENANCE BUILDING
BURLINGTON COUNTY
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:
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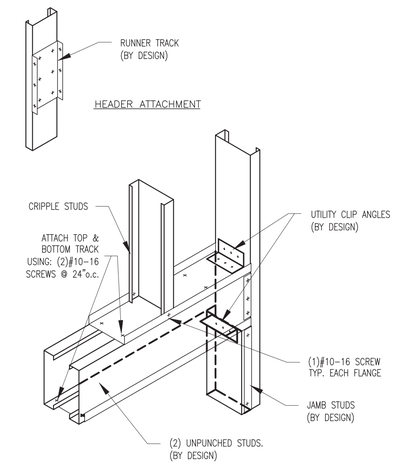
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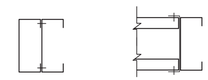
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KENNETH C. RESSLER
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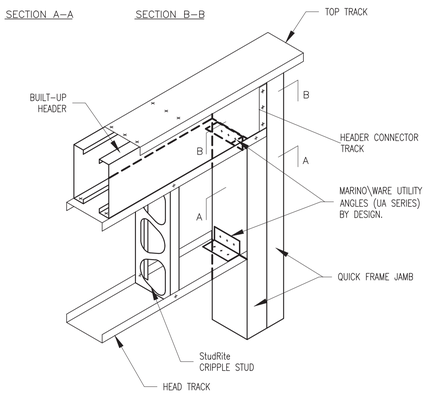
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BOXED HEADER CONNECTION DETAIL 7 S-201

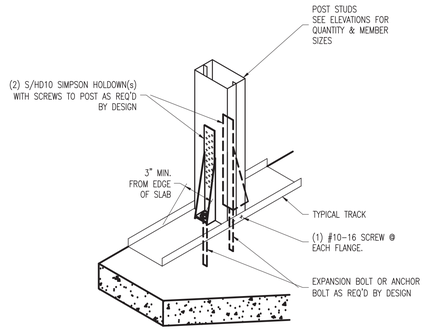
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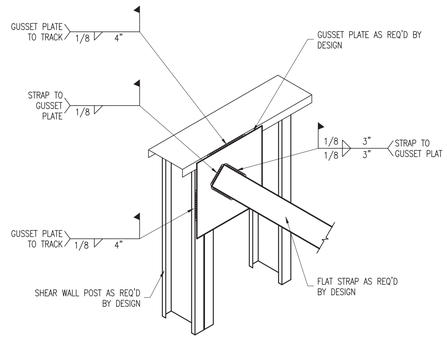
LOAD BEARING HEADER CONNECTION DETAIL 8 S-201

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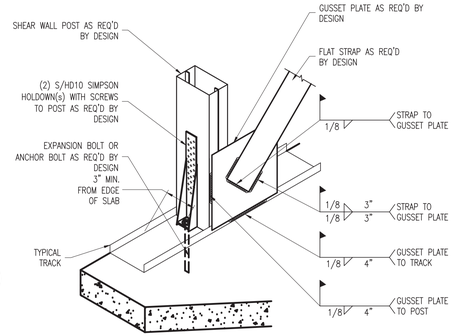
POST ANCHORAGE DETAIL 4 S-201

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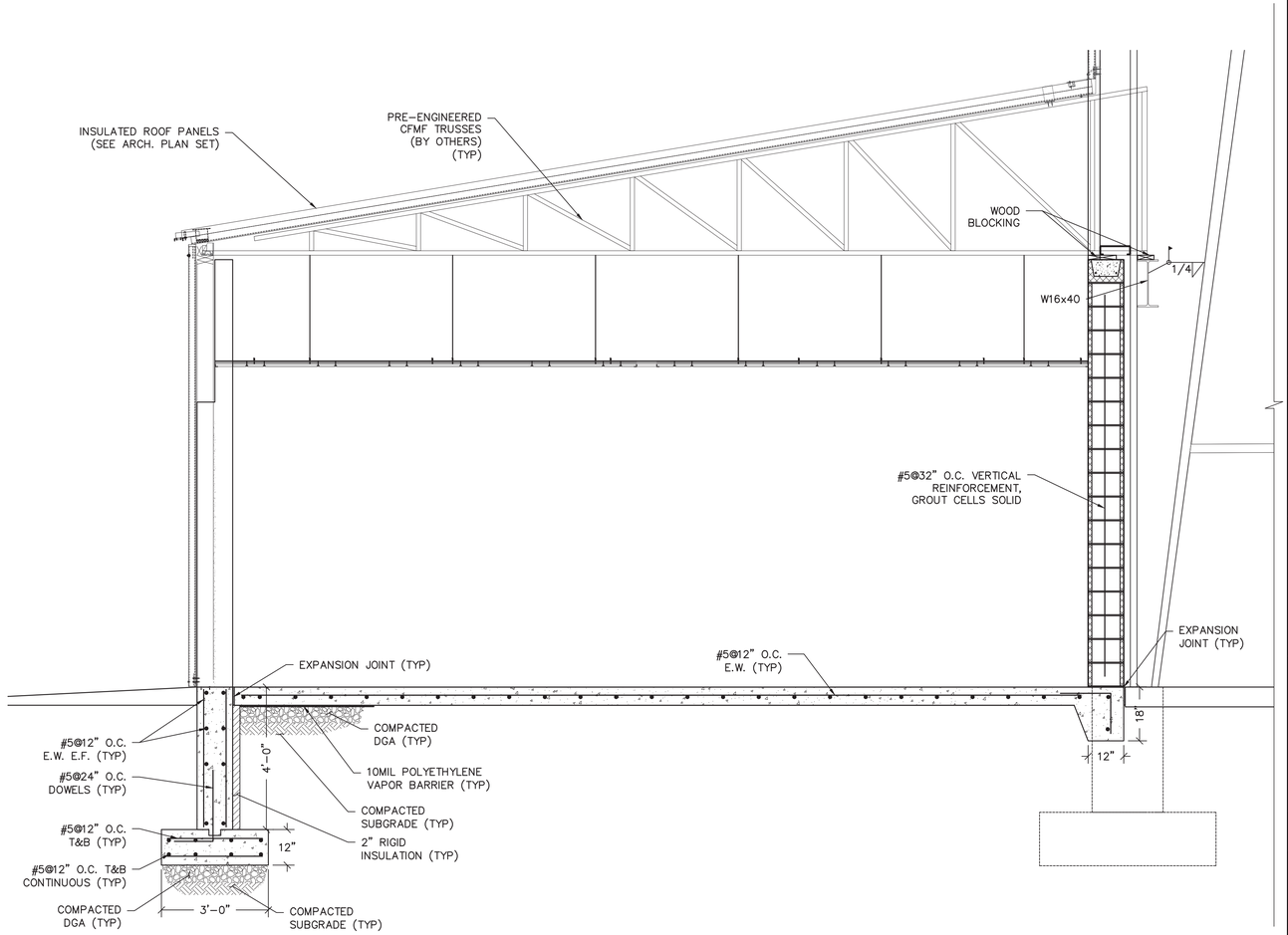
SHEAR WALL TOP CONNECTION DETAIL 5 S-201

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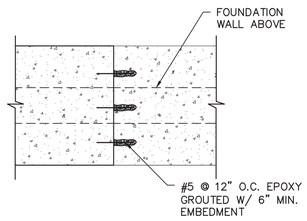
SHEAR WALL BASE CONNECTION DETAIL 6 S-201

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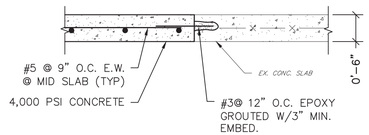


BUILDING SECTION A S-201

N.T.S.



EXISTING TO NEW FOUNDATION CONNECTION DETAIL 3 S-201



EXISTING SLAB TO NEW SLAB CONNECTION DETAIL 2 S-201

N.T.S.

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SHEET CONTENTS:

STRUCTURAL DETAILS

PROJECT TITLE:

RENOVATION FOR
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BURLINGTON COUNTY
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:
XXX

DATE	REVISIONS	BY	CHKD

Date	04.09.24
Scale	
Drawn by	J.G.
Checked by	
Job No.	2241869

Drawing No.
S-201

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NJ PROFESSIONAL ENGINEER LIC. No. 34559

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GENERAL NOTES

(ALL GENERAL NOTES, SYMBOLS & ABBREVIATIONS MAY NOT BE USED ON THIS PROJECT)

1. EXAMINE JOB SITE AND VERIFY ALL SITE CONDITIONS PRIOR TO SIGNING CONTRACT. BRING ANY DISCREPANCY BETWEEN THE CONTRACT DOCUMENTS AND THE ACTUAL FIELD CONDITIONS TO THE ATTENTION OF THE ARCHITECT/ENGINEER.
2. THE LOCATION OF EXISTING UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PAY FOR AND REPAIR ALL DAMAGES CAUSED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES UNLESS OTHERWISE INDICATED.
3. THE DRAWINGS ARE DIAGRAMMATIC. COORDINATE IN THE FIELD, WITH THE ARCHITECT AND WITH ALL TRADES, THE EXACT LOCATION OF EQUIPMENT, FIXTURES, VALVES, THERMOSTATS, ETC. AND ROUTING OF PIPING, DUCTWORK, CONDUIT, ETC.
4. PERFORM WORK IN ACCORDANCE WITH RULES, REGULATIONS, STANDARDS, CODES, ORDINANCES, AND LAWS OF LOCAL, STATE AND FEDERAL GOVERNMENTS AND OTHER AUTHORITIES HAVING JURISDICTION AND BE RESPONSIBLE FOR COMPLIANCE THEREWITH.
5. OBTAIN ALL NECESSARY APPROVALS, PERMITS AND INSPECTIONS. PAY ALL ASSOCIATED FEES.
6. GUARANTEE ALL SYSTEMS AND WORK FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. GUARANTEE REFRIGERATION COMPRESSORS FOR FIVE (5) YEARS.
7. BEFORE STARTING FABRICATION/ WORK SUBMIT TO ARCHITECT/ENGINEER FOR APPROVAL SIX (6) COMPLETE SETS OF SHOP DRAWINGS AND PRODUCT DATA FROM MANUFACTURERS, SUPPLIERS, ETC.
8. ALL MATERIALS SHALL BE NEW AND OF COMMERCIAL GRADE AND BEAR THE UNDERWRITER'S LABEL WHERE APPLICABLE.
9. LOCATE ALL EXISTING UTILITIES AND MAKE SERVICEABLE CONNECTIONS TO SAME.
10. OBTAIN APPROVAL FROM THE BUILDING OWNER'S REPRESENTATIVE PRIOR TO ANY INTERRUPTION OF BUILDING SYSTEMS. COORDINATE ACCEPTABLE WORKING HOURS WITH SAME.
11. REMOVE ALL ABANDONED EQUIPMENT, FIXTURES, DUCTWORK, PIPING, CONDUIT, ETC. CAP ALL PIPING ABANDONED IN WALLS.
12. ALL CUTTING AND PATCHING IS BY RESPECTIVE CONTRACTORS. CORE DRILL OR SAW CUT ALL MASONRY AND RESTORE ALL SURFACES TO ORIGINAL CONDITION. PAINTING AND FINISHING ARE BY THE GENERAL CONTRACTOR.
13. PIPING AND SPECIALTIES
    a. ALL PIPING SHALL CONFORM TO THE REQUIREMENTS OF THE ANSI SAFETY CODE AND BE FREE FROM ALL DEFECTS.
    b. PROVIDE SLEEVES FOR PIPING THROUGH MASONRY, FIRE RATED WALLS AND SMOKE PARTITIONS. SLEEVES SHALL BE 22 GAUGE OR HEAVIER STEEL, SCHEDULE 40 IN BEARING WALLS. SIZE SLEEVES TO ACCOMMODATE PIPE INSULATION WHERE APPLICABLE. PROVIDE UL LISTINGS FOR SLEEVE PACKING.
    c. PROVIDE PIPE HANGERS TO SUPPORT PIPING FROM BUILDING STRUCTURE TO MAINTAIN REQUIRED SLOPE, PROVIDE FOR EXPANSION AND CONTRACTION, ISOLATE VIBRATION AND RELIEVE EQUIPMENT AND SPECIALTIES FROM STRAIN. SPACE HANGERS ACCORDING TO APPLICABLE CODES AND MANUFACTURER'S RECOMMENDATIONS.
    d. IDENTIFY ALL PIPING WITH SEMIRIGID OR ADHESIVE PLASTIC INDICATION MARKERS, EXCEPT WITHIN INACCESSIBLE CHASES. MARKERS SHALL SHOW DIRECTION OF FLOW. MARKERS SHALL BE LOCATED NEXT TO EACH VALVE, AT EACH BRANCH, ON BOTH SIDES OF PIPE PASSAGE THROUGH WALLS AND ON ALL HORIZONTAL PIPING AT 20' MAXIMUM INTERVALS.
    e. ROUTE ALL PIPING CONCEALED IN WALLS, ABOVE CEILING AND BELOW FLOOR UNLESS OTHERWISE NOTED. RUN PARALLEL WITH BUILDING LINES.
    f. PROVIDE DRAIN VALVES & PLUGS AT ALL LOW POINTS SUCH THAT PIPING SYSTEMS CAN BE DRAINED. PROVIDE MANUAL AIR VENT VALVES AT ALL HIGH POINTS IN THE SYSTEM.
    g. PROVIDE BACKFLOW PREVENTION DEVICES AT ALL EQUIPMENT AS REQUIRED BY CODE. UNLESS STATED OTHERWISE PROVIDE CHECK VALVE AND SHUT-OFF VALVE BOTH RATED FOR 250# DOWN STREAM OF BACKFLOW PREVENTER ON MAKE UP WATER LINE FOR HYDRONIC HEATING HOT WATER SYSTEMS.
    h. PROVIDE DIELECTRIC UNIONS AT ALL JUNCTIONS OF DISSIMILAR METALS.
    i. ALL SHUTOFF VALVES, CONTROL VALVES, ETC. ARE FULL LINE SIZE UNLESS OTHERWISE NOTED.
    j. INSTALL PIPING ON WARM SIDE OF BUILDING INSULATION. DO NOT INSTALL PIPING WHERE SUBJECT TO FREEZING.
    k. ALL PIPING INSULATION SHALL BE CONTINUOUS THROUGH WALLS AND CEILING OPENINGS, SLEEVES AND PIPE HANGERS.
    l. TEST ALL PIPING IN ACCORDANCE WITH APPLICABLE CODES, STANDARDS, AND INSPECTOR'S REQUIREMENTS PRIOR TO INSULATION OR ENCLOSING.
    m. BALANCE ALL HYDRONIC DEVICES FOR FLOW RATES NOTED ON DRAWINGS. PROVIDE BALANCING REPORT TO ARCHITECT/ENGINEER.
    n. UNLESS STATED OTHERWISE IN THE CONTRACT SPECIFICATIONS, PROVIDE A MINIMUM OF ONE (1) ONE AND A HALF (1-1/2') INCH THICK LAYER OF PREFORMED MINERAL FIBER PIPE INSULATION WITH PREFORMED MINERAL FIBER FITTINGS ON ALL DOMESTIC HOT AND COLD WATER PIPING, HYDRONIC HEATING AND CHILLED WATER SUPPLY AND RETURN PIPING, REFRIGERANT PIPING AND CONDENSATE DRAIN PIPING. INCLUDE A FIELD APPLIED FOIL AND PVC JACKET WITH VAPOR RETARDER AS PART OF THE INSULATION ASSEMBLY.
    o. UNLESS STATED OTHERWISE ALL UNDERGROUND PIPING SHALL BE INSTALLED WITH POLYETHYLENE ENCASEMENT (PE) FOR CORROSION RESISTANCE.
    p. UNLESS STATED OTHERWISE ALL FUEL GAS VENT PIPING TO BE SA-53GrB CARBON STEEL. ALL VENT PIPING TO BE PRIMED AND FINISH PAINTED IN A COLOR ACCEPTABLE TO THE OWNER.
14. DUCTWORK AND SPECIALTIES
    a. ALL DUCTWORK TO BE IN ACCORDANCE WITH S.M.A.C.N.A. "H.V.A.C. DUCT CONSTRUCTION STANDARDS", LATEST EDITION. PRESSURE CLASS "B".
    b. ALL DUCTWORK TO BE CONSTRUCTED OF GALVANIZED SHEETMETAL.
    c. PROVIDE 45 DEGREE COLLARS TO ALL BRANCH CONNECTIONS. PROVIDE TURNING VANES AT ALL ELBOWS 12"x6" OR LARGER. PROVIDE STANDARD RADIUS ELBOWS AT ALL ELBOWS SMALLER THAN 12"x6".
    d. PROVIDE ALL VOLUME DAMPERS REQUIRED TO BALANCE THE SYSTEMS. INSTALL VOLUME DAMPERS AT BRANCH TAKE-OFFS FROM TRUNK.
    e. PROVIDE CURTAIN TYPE FIRE DAMPERS WHEREVER DUCT PENETRATES FIRE RATED PARTITIONS. UNITS SHALL PROVIDE NOT LESS THAN 90% FREE AREA. PROVIDE ACCESS DOORS AT ALL FIRE DAMPERS.
    f. TEST DUCT SYSTEMS FOR AIR TIGHTNESS AND ABSENCE OF AUDIBLE LEAKS BEFORE ENCLOSURE.
    g. BALANCE ALL AIR DEVICES FOR AIR QUANTITIES NOTED ON DRAWINGS. PROVIDE BALANCING REPORT TO ARCHITECT/ENGINEER.
    h. FLEXIBLE DUCTS: ALL FLEXIBLE DUCTS SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE INTERNATIONAL MECHANICAL CODE.
    i. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
    j. PROVIDE FIRE DAMPERS IN THE DUCTWORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND THE CONTRACT DOCUMENTS.
    k. UNLESS STATED OTHERWISE IN THE CONTRACT SPECIFICATIONS, PROVIDE A MINIMUM OF ONE (1) TWO AND ONE HALF (2-1/2') INCH THICK LAYER OF MINERAL FIBER BLANKET INSULATION ON ALL NEW INDOOR ROUND AND RECTANGULAR SUPPLY AIR, EXHAUST AIR, RETURN AIR AND OUTDOOR AIR DUCTWORK. INCLUDE A FIELD APPLIED PAPER AND FOIL JACKET WITH VAPOR RETARDER AS PART OF THE INSULATION ASSEMBLY.
    l. UNLESS STATED OTHERWISE IN THE CONTRACT SPECIFICATIONS, PROVIDE A MINIMUM OF ONE (1) TWO (2') INCH THICK LAYER OF MINERAL FIBER BOARD INSULATION ON ALL NEW OUTDOOR ROUND AND RECTANGULAR SUPPLY AIR, EXHAUST AIR, RETURN AIR AND OUTDOOR AIR DUCTWORK. INCLUDE A WEATHERPROOF FIELD APPLIED 22 GAUGE ALUMINUM JACKET WITH VAPOR RETARDER AS PART OF THE INSULATION ASSEMBLY. COORDINATE FINISH COLOR OF EXTERIOR JACKET WITH THE OWNER.
    m. UNLESS OTHERWISE NOTED ALL EXPOSED SUPPLY, RETURN AND EXHAUST AIR DUCTWORK SHALL BE PRIMED AND PAINTED. COLOR TO BE DETERMINED BY THE ENGINEER/ OWNER.
15. EQUIPMENT
    a. VERIFY ALL ELECTRICAL CHARACTERISTICS WITH ELECTRICAL CONTRACTOR BEFORE ORDERING EQUIPMENT.
    b. ALL MECHANICAL EQUIPMENT AND APPLIANCE INSTALLATIONS SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE INTERNATIONAL MECHANICAL CODE, AS WELL AS WITH MANUFACTURER'S RECOMMENDATIONS,
    c. ALL ELECTRICAL POWER WIRING IS BY ELECTRICAL CONTRACTOR. ALL CONTROL WIRING IS BY RESPECTIVE CONTRACTOR.
    d. PROVIDE OWNER WITH OPERATION AND MAINTENANCE MANUALS FOR INSTALLED EQUIPMENT. INCLUDE CONTRACTOR'S, SUPPLIER'S AND MANUFACTURER'S NAMES, ADDRESS AND TELEPHONE NUMBERS.
    e. SUPPLY STARTERS AND DISCONNECTS WITH EQUIPMENT.
    f. PROVIDE CONCRETE PADS FOR FLOOR MOUNTED EQUIPMENT. PADS SHALL BE A MINIMUM 4" HIGH AND SHALL EXTEND 6" BEYOND EQUIPMENT ON ALL SIDES.
    g. LABELING: ALL MECHANICAL EQUIPMENT AND APPLIANCES SHALL BEAR LABELING IN COMPLIANCE WITH THE LATEST VERSION OF THE INTERNATIONAL MECHANICAL CODE.
    h. UNLESS NOTED OTHERWISE, ALL HYDRONIC SYSTEMS BOILER/ CHILLED WATER SHALL BE PROVIDED WITH A NEW BLADDER TYPE EXPANSION TANK AS REQUIRED. TANK TO BE SIZED FOR EACH SYSTEM BASED UPON TANK MANUFACTURER'S RECOMMENDATIONS.
    i. UNLESS OTHERWISE NOTED CONTRACTOR IS RESPONSIBLE TO FURNISH AND INSTALL PROPYLENE GLYCOL ANTI FREEZE FOR ALL HYDRONIC HEATING AND COOLING SYSTEMS. THE CONTRACTOR SHALL SUPPLY A 35% CONCENTRATION OF PROPYLENE GLYCOL IN SOLUTION FOR CHILLED WATER COOLING SYSTEMS AND A 25% CONCENTRATION OF PROPYLENE GLYCOL IN SOLUTION FOR HOT WATER HEATING SYSTEMS. PROPYLENE GLYCOL ANTI FREEZE SHALL BE COMPATIBLE WITH ALL MATERIALS OF THE HYDRONIC SYSTEM (PIPING, VALVES, PUMPS, CHILLER, BOILER, ETC.) AS WELL AS ALL TERMINAL EQUIPMENT.
16. AUTOMATIC TEMPERATURE AND SAFETY CONTROLS
    a. PROVIDE ALL WIRING, RELAYS, CONTACTS, TRANSFORMERS, ETC. REQUIRED TO DELIVER A COMPLETE OPERABLE SYSTEM.
    b. THERMOSTATS SHALL BE 24 HOUR/7 DAY PROGRAMMABLE WITH FAN "OFF/ON/AUTO" AND SYSTEM "HEAT/COOL/AUTO/OFF" SWITCHES. VERIFY OPERATION OF ALL FUNCTIONS.
17. FIRE PROTECTION
    a. THE QUANTITY AND LOCATION OF SPRINKLERS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND INTENDED FOR SCHEMATIC PURPOSES ONLY. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING AND COMMISSIONING ALL NECESSARY SPRINKLERS, PIPE, EQUIPMENT AND APPURTENANCES NECESSARY, IN FULL ACCORDANCE WITH THE NFPA AND APPROVED BY THE ENGINEER AND ALL AUTHORITIES HAVING JURISDICTION.
    b. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE DETAILED DESIGN DRAWINGS, HYDRAULIC CALCULATIONS, PIPING, FITTINGS, SPRINKLERS, ALARM AND MONITORING DEVICES, SIGNAGE AND APPURTENANCES COMPLETE AND IN FULL ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AND NFPA 13 & 14. ALL WIRING OF DEVICES SHALL BE DONE BY ELECTRICAL CONTRACTOR.
    c. ALL SPRINKLER HEADS SHALL BE LOCATED AT THE CENTER POINT OF ALL ACOUSTICAL CEILING TILES.
18. ALL EXISTING PLUMBING, HVAC AND ELECTRICAL EQUIPMENT AND MATERIALS THAT ARE EITHER EXPOSED OR CONCEALED AND THAT INTERFERE WITH ALTERED EXISTING BUILDING ARRANGEMENTS AND NEW SYSTEMS SHALL BE REMOVED, RELOCATED, REROUTED, OR ABANDONED. DRAWINGS GENERALLY INDICATE MAJOR ITEMS OF EXISTING MATERIALS AND EQUIPMENT THAT ARE AFFECTED. IT IS NOT POSSIBLE TO INDICATE ALL RELATED ACCESSORIES, SPECIALTIES AND OTHER MINOR ITEMS; HOWEVER, THEIR REMOVAL, RELOCATION, REROUTING AND ABANDONMENT SHALL ALSO BE INCLUDED IN THIS WORK.
19. EXISTING CONCEALED PLUMBING, HVAC AND ELECTRICAL EQUIPMENT AND MATERIALS THAT ARE TO REMAIN BUT BECOME EXPOSED DUE TO RENOVATION WORK, SHALL BE RELOCATED AND RECONNECTED AS PART OF THIS WORK.
20. PLUMBING DRAWINGS ARE DIAGRAMMATIC. ALL DEVICES & FITTINGS MAY NOT BE SHOWN ON THE DRAWINGS FOR CLARITY. PROVIDE CLEANOUTS NEAR THE BASE OF ALL VERTICAL WASTE & STORM WATER STACKS IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL STANDARD PLUMBING CODE.
21. GUARDS SHALL BE PROVIDED WHERE APPLIANCES, EQUIPMENT, FANS OR OTHER COMPONENTS THAT REQUIRE SERVICE AND ROOF HATCH OPENINGS ARE LOCATED WITHIN 12 FEET OF A ROOF EDGE OR OPEN SIDE OF A WALKING SURFACE AND SUCH EDGE OR OPEN SIDE IS LOCATED MORE THEN 30 INCHES ABOVE THE FLOOR, ROOF OR GRADE BELOW. THE GUARD SHALL EXTEND NOT LESS THEN 30 INCHES BEYOND EACH END OF SUCH APPLIANCES, EQUIPMENT, FANS, COMPONENTS AND ROOF HATCH OPENINGS AND THE TOP OF THE GUARD SHALL BE LOCATED NOT LESS THEN 42 INCHES ABOVE THE ELEVATED SURFACE ADJACENT TO THE GUARD. THE GUARD SHALL BE CONSTRUCTED SO AS TO PREVENT THE PASSAGE OF A 21 INCH-DIAMETER SPHERE AND SHALL COMPLY WITH THE LOADING REQUIREMENTS FOR GUARDS SPECIFIED IN THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE.
22. PROVIDE FOR ALL MECHANICAL EQUIPMENT – FAN AND MOTOR PULLEYS, SHEAVES, BELTS AND LABOR REQUIRED TO BALANCE THE NEW AND EXISTING MECHANICAL EQUIPMENT TO THE SPECIFIED SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR FLOWS SHOWN ON THE CONTRACT DOCUMENTS AT NO ADDITIONAL COST TO THE OWNER. THE TESTING, ADJUSTING AND BALANCING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED PULLEYS, SHEAVES AND BELTS EVEN IF THEY ARE NOT PROVIDED WITH THE EQUIPMENT BY THE MANUFACTURER.
23. UNLESS OTHERWISE NOTED CONTRACTOR IS RESPONSIBLE TO FURNISH AND INSTALL ALL CONNECTION/ TRANSITION DUCTS BETWEEN NEW HVAC EQUIPMENT (UNIT VENTILATORS, BLOWER COILS, FAN COILS, AIR HANDLERS, ETC.) AND NEW OR EXISTING OUTSIDE AIR LOUVERS. CONTRACTOR IS ALSO RESPONSIBLE FOR REINFORCING ANY OUTSIDE AIR LOUVER OPENING THAT IS CREATED OR ENLARGED TO ACCOMMODATE THE NEW INSTALLATION.
24. UNLESS SPECIFICALLY DIRECTED OTHERWISE THE CONTRACTOR SHALL SUBMIT PRE-DEMOLITION/ PRE-CONSTRUCTION VIDEOS AND/ OR PHOTOGRAPHS OF THE EXISTING CONDITIONS IN THE PROPOSED AREA OF WORK TO THE ENGINEER FOR REVIEW PRIOR TO START OF DEMOLITION/ CONSTRUCTION WORK.

MECHANICAL ABBREVIATIONS

AD	ACCESS DOOR	LRG	LINEAR RETURN GRILLE
ADJ.	ADJACENT	LSR	LINEAR SUPPLY REGISTER
AFF	ABOVE FINISHED FLOOR	MD	MOTORIZED DAMPER
AHU	AIR HANDLER UNIT	MH	MANHOLE
AP	ACCESS PANEL	MSB	MOP SERVICE BASIN
B	BOILER	MUA	MAKE-UP AIR UNIT
BFF	BELOW FINISHED FLOOR	MV	MIXING VALVE (THERMOSTATIC)
BFP	BACKFLOW PREVENTOR	NC	NORMALLY CLOSED
BFU	BOILER FEED UNIT	NO	NORMALLY OPEN
BOD	BOTTOM OF DUCT	NTS	NOT TO SCALE
BOL	BOTTOM OF LOUVER	OA	OUTSIDE AIR
C	CONDENSATE	P	PUMP
CI	CAST IRON	RA	RETURN AIR
CD	CEILING DIFFUSER	RD	ROOF DRAIN
CEG	CEILING EXHAUST GRILLE	RH	RADIANT HEATER
CER	CEILING EXHAUST REGISTER	RPBP	REDUCED PRESSURE BACKFLOW PREVENTOR
CFH	CUBIC FEET PER HOUR	RWC	RAIN WATER CONDUCTOR
CFM	CUBIC FEET PER MINUTE	S	SINK/SANITARY PIPING
CO	CLEANOUT	S=02'	SLOPE
COG	CLEANOUT ON GRADE	SA	SUPPLY AIR
COND	CONDENSATE PIPING	SD	SPLITTER DAMPER
CONT	CONTINUED	SH	SHOWER
CP	CONDENSATE PUMP	SP	SPRINKLER PIPING
CRG	CEILING RETURN GRILLE	SS	SOIL STACK
CRR	CEILING RETURN REGISTER	ST	STORM PIPING
CSV	CIRCUIT SETTER VALVE	STM	STEAM PIPING
CT	COOLING TOWER	SV	STACK VENT
CTR	COOLING TOWER RETURN	SW	SAFEWASTE
CTS	COOLING TOWER SUPPLY	T	TUB
CU	CONDENSING UNIT	TAG	TRANSFER AIR GRILLE
CUH	CABINET UNIT HEATER	TOD	TOP OF DUCT
CWS	COLD WATER SUPPLY	TP	TRAP PRIMER
CWS/R	CONDENSER WATER SUPPLY/RETURN	TR	TRANSITION
DF	DRINKING FOUNTAIN	TWR	TEMPERED WATER RETURN
DFU	DRAINAGE FIXTURE UNITS	TWS	TEMPERED WATER SUPPLY
DN	DOWN	TYP	TYPICAL
EA	EXHAUST AIR	UH	UNIT HEATER
EBBH	ELECTRIC BASEBOARD HEATER	UR	URINAL
EF	EXHAUST FAN	V	VENT PIPING
EWC	ELECTRIC WATER COOLER	VAV	VARIABLE AIR VOLUME
EWH	ELECTRIC WATER HEATER	VD	VOLUME DAMPER
EX	EXISTING	VIF	VERIFY IN FIELD
FC	FLEXIBLE CONNECTION/FAN COIL	VS	VENT STACK
FCO	FLOOR CLEANOUT	VTR	VENT THRU ROOF
FD	FLOOR DRAIN	WC	WATER CLOSET
FRG	FLOOR RETURN GRILLE	WCO	WALL CLEANOUT
FRR	FLOOR RETURN REGISTER	WEG	WALL EXHAUST GRILLE
G	GAS PIPING	WER	WALL EXHAUST REGISTER
GV	GRAVITY VENTILATOR	WHA	WATER HAMMER ARRESTOR
HB	HOSE BIBB	WHY	WALL HYDRANT
HD	HAND DAMPER	WMS	WIREMESH SCREEN
HP	HEAT PUMP	WRG	WALL RETURN GRILLE
HW	HOT WATER	WRR	WALL RETURN REGISTER
HWC	HANDICAPPED WATER CLOSET	WSFU	WALL SUPPLY FIXTURE UNIT
HWG	HOT WATER GENERATOR	WSG	WALL SUPPLY GRILLE
HWH	HOT WATER HEATER	WSR	WALL SUPPLY REGISTER
HWR	HOT WATER RETURN		
HWS	HOT WATER SUPPLY		
HX	HEAT EXCHANGER		
L	LOUVER		
LAV	LAVATORY		
LBG	LINEAR BAR GRILLE		
LD	LINEAR DIFFUSER		
LF	LINEAR FEET		

MECHANICAL SYMBOLS

- EQUIPMENT MARK (TYPE FC, NUMBER 1)
- SECTION INDICATOR (SECTION B2 ON DWG. – –)
- DETAIL INDICATOR (DETAIL B2 ON DWG. – –)
- KEY NOTE INDICATOR (REFERS TO NOTES ON SAME SHEET)
- REVISIONS INDICATOR
- PIPE RISER (RISER HWS-1 ON DWG. – –)
- DUCT RISER (RISER E-1 ON DWG. – –)
- DIFFUSER/REGISTER/GRILLE MARK (TYPE A, 150 CFM, DIRECTION)
- DOOR UNDERCUT
- TRANSFER AIR
- DIAMETER
- CONNECTION TO EXISTING
- POINT OF DISCONNECTION
- FLAT OVAL DUCT DIMENSION
- INSIDE DUCT DIMENSION (IN INCHES, FIRST DIMENSION IS AS VIEWED)
- SOUND LINED DUCTWORK
- SUPPLY DUCT TURNED UP
- SUPPLY DUCT TURNED DOWN
- RETURN/EXHAUST DUCT TURNED UP
- RETURN/EXHAUST DUCT TURNED DOWN
- SQUARE ELBOW (WITH TURNING VANES)
- ROUND ELBOW
- SPIN-IN WITH VOLUME DAMPER FOR ROUND DUCT
- TAKE OFF WITH VOLUME DAMPER FOR RECTANGULAR DUCT
- OPEN END DUCT WITH WMS
- EXISTING DUCT WORK OR EQUIPMENT
- DUCT WORK TO BE REMOVED & EXISTING DUCTWORK TO BE CAPPED
- EXISTING DUCTWORK TO BE RELOCATED
- FLEXIBLE DUCTWORK (SINGLE LINE)
- FLEXIBLE DUCTWORK (DOUBLE LINE)
- SUPPLY DIFFUSER
- SUPPLY AIR DIFFUSER WITH 3 DIRECTION DISCHARGE (BLACK TRIANGLE INDICATED BLANK OFF)
- RETURN/EXHAUST REGISTER OR GRILLE
- SLOT DIFFUSER WITH PLENUMS
- EXHAUST FAN
- ELECTRIC BASEBOARD
- VOLUME DAMPER (MANUAL)
- BACKDRAFT DAMPER
- FIRE DAMPER
- MOTORIZED DAMPER
- MOTORIZED SMOKE/FIRE DAMPER
- CARBON MONOXIDE SENSOR
- THERMOSTAT
- HUMIDISTAT
- SENSOR
- DUCT DETECTOR
- BALL VALVE
- SHUTOFF VALVE (SEE SPECS. FOR TYPE)
- BUTTERFLY VALVE
- GATE VALVE
- EMERGENCY BOILER SHUTOFF
- SOUND ATTENUATOR
- PRESSURE/TEMPERATURE TEST PLUG
- AW — ACID WASTE PIPING
- FO — FUEL OIL PIPING
- PIPING TO BE DEMOLISHED
- BF — BOILER FEED PIPING
- S — STEAM PIPING
- C — STEAM CONDENSATE PIPING
- PRESSURE GAUGE
- GAUGECOCK
- THERMOMETER
- PRESSURE TEMPERATURE TAP
- EXISTING HYDRONIC CONTROL VALVE
- HOSE BIBB DRAIN VALVE
- INSULATED PIPE
- VERTICAL VALVE
- CIRCUIT SETTER
- FLOW METER (MAGNETIC)
- FLOW METER (VENTURI)
- BALL JOINT
- SUCTION DIFFUSER
- PIPE ANCHOR
- PIPE GUIDE
- UNION
- VACUUM BREAKER
- CAP AND VALVED
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER STRAIGHT INVERT
- ECCENTRIC REDUCER STRAIGHT CROWN
- METER (SEE CONNECTED PIPING FOR TYPE OF SERVICE)
- CHAIN OPERATOR
- MOTOR OPERATOR
- FLOAT
- PUMP
- CO — CO — CLEANOUT
- FD — FLOOR DRAIN WITH P-TRAP
- FUNNEL DRAIN
- TRAP
- DOUBLE CHECK VALVE TYPE BACKFLOW PREVENTER WITH GATE VALVES
- REDUCED PRESSURE ZONE BACKFLOW PREVENTER WITH GATE VALVES
- REDUCED PRESSURE ZONE BACKFLOW PREVENTER WITH BALL VALVES
- DOUBLE CHECK VALVE TYPE BACKFLOW PREVENTER WITH BALL VALVES
- HB — HOSE BIBB
- FPHB — FROSTPROOF HOSE BIBB
- WATER HAMMER ARRESTOR
- PITCH PIPE DOWN IN DIRECTION OF ARROW
- TEE TURN UP
- TEE TURNED DOWN
- PIPE TURNED UP
- PIPE TURNED DOWN
- K — KEY SWITCH
- BUSHING
- FLEXIBLE PIPE CONNECTION
- MANUAL AIR VENT
- CONCEALED SPRINKLER HEAD
- PENDANT SPRINKLER HEAD
- UPRIGHT SPRINKLER HEAD
- SIDEWALL SPRINKLER HEAD
- RS — REFRIGERANT SUCTION ROUTE
- RL — REFRIGERANT LIQUID ROUTE
- DOMESTIC COLD WATER PIPE
- BLIND FLANGE END CONNECTION
- LOCK SHIELD GATE VALVE
- GLOBE VALVE
- ANGLE GLOBE VALVE
- PLUG VALVE
- OS & Y GATE VALVE
- 2-WAY CONTROL VALVE
- 3-WAY CONTROL VALVE
- PRESSURE RELIEF VALVE
- TEMPERATURE & PRESSURE RELIEF VALVE
- CALIBRATED BALANCE VALVE
- AUTOMATIC FLOW CONTROL VALVE
- SWING CHECK VALVE
- SPRING LOADED CHECK VALVE
- ALARM CHECK VALVE
- COMBINATION CHECK/BALANCE/ SHUT OFF VALVE
- NEEDLE VALVE
- PRESSURE REGULATOR
- BACK PRESSURE REGULATOR
- DIAPHRAGM VALVE
- SOLENOID VALVE
- FLOW SWITCH
- PRESSURE SWITCH
- VALVE MONITOR SWITCH
- STRAINER
- BLOW-OFF STRAINER
- DOMESTIC HOT WATER PIPE
- DOMESTIC HOT WATER RETURN PIPE
- SAN — SANITARY SEWER
- SAN — SANITARY SEWER BELOW GRADE OR SLAB
- ST — STORM SEWER
- ST — STORM SEWER BELOW GRADE OR SLAB
- V — PLUMBING VENT
- D — DRAIN PIPE
- F — FIRE PROTECTION PIPE
- CH — CHEMICAL FEED PIPE
- EX — EXPANSION TANK PIPE
- HHWS — HEATING HOT WATER SUPPLY PIPE
- HHWR — HEATING HOT WATER RETURN PIPE
- CHWS — CHILLED WATER SUPPLY PIPE
- CHWR — CHILLED WATER RETURN PIPE
- CWS — CONDENSER WATER SUPPLY PIPE
- CWR — CONDENSER WATER RETURN PIPE
- COND — CONDENSATE WATER PIPING
- A — COMPRESSED AIR PIPE
- VAC — VACUUM PIPE
- G — NATURAL GAS PIPING

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SHEET CONTENTS:

MECHANICAL COVER SHEET

PROJECT TITLE:

RENOVATION FOR MAINTENANCE BUILDING
BURLINGTON COUNTY
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:
XXX

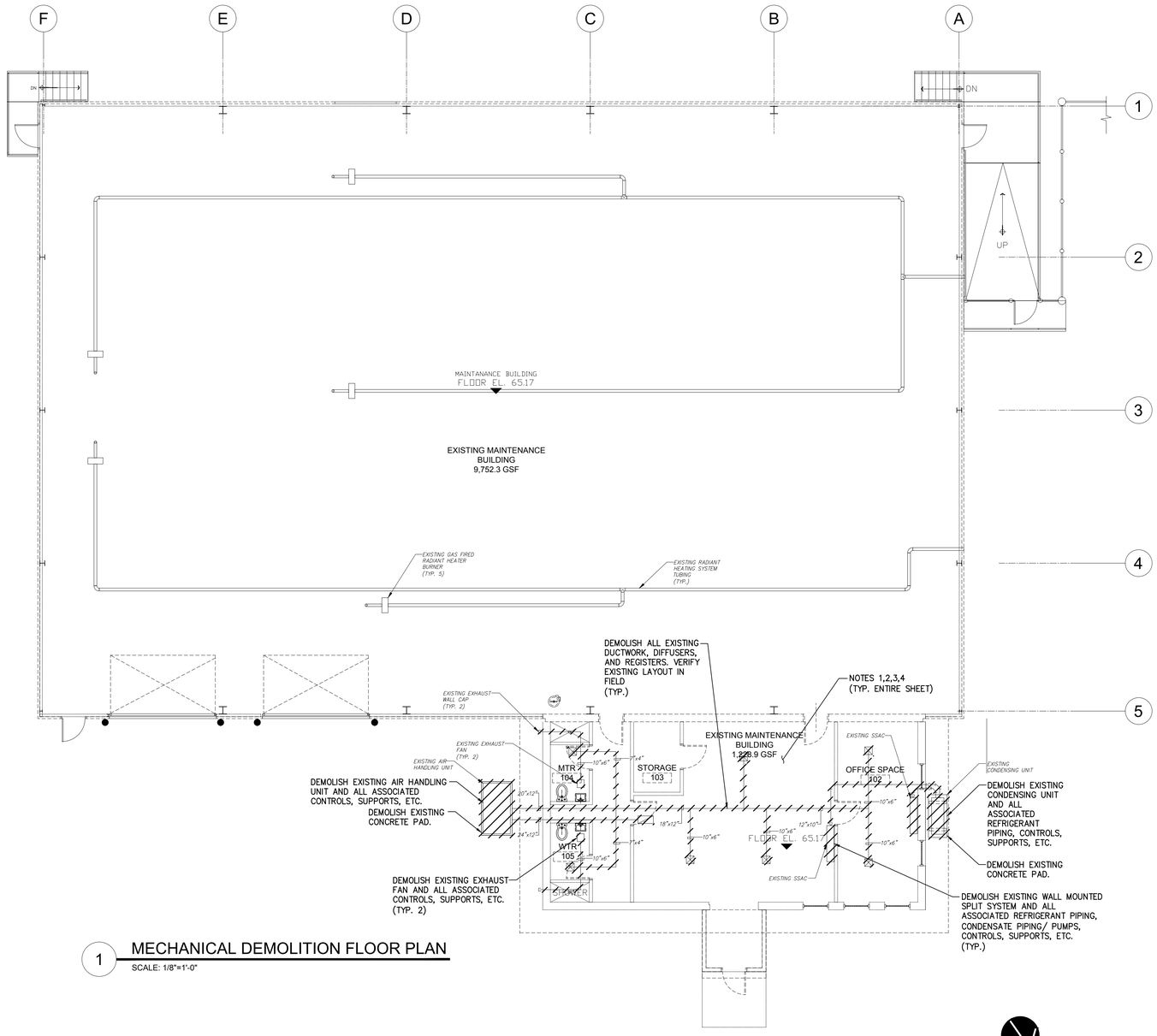
DATE	REVISIONS	BY	CHKD

Date	10.08.24
Scale	AS SHOWN
Drawn by	B.K.
Checked by	
Job. No.	2241869

Drawing No.

M-1.0

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1 MECHANICAL DEMOLITION FLOOR PLAN

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

NOTES:

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
2. THIS DEMOLITION PLAN HAS BEEN PROVIDED AS A GUIDE. HOWEVER, ALL DEMOLITION REQUIRED TO SUCCESSFULLY COMPLETE THIS PROJECT SHALL BE INCLUDED IN THE SCOPE OF WORK. IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS TO SECURE A COMPLETELY INTERCONNECTED AND FUNCTIONING SYSTEM AND IF ANY WORKMANSHIP OR MATERIALS BE REQUIRED WHICH ARE OBVIOUSLY NECESSARY TO CARRY OUT THE FULL INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS OR TO BE REASONABLY INFERRED THEREFROM, THE COST OF SUCH WORKMANSHIP OR MATERIALS SHALL BE INCLUDED IN THE SCOPE OF WORK.
3. COORDINATE THE DEMOLITION OF THE EXISTING MECHANICAL EQUIPMENT WITH OWNER. OWNER SHALL RESERVE THE RIGHT TO MAINTAIN SALVAGED EQUIPMENT. ALL EQUIPMENT NOT RETAINED BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR.
4. COORDINATE THE DEMOLITION OF THE EXISTING MECHANICAL EQUIPMENT WITH THE ELECTRICAL CONTRACTOR. SEE THE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DETAILS.
5. DEMOLISH EXISTING AIR HANDLING UNIT AND ALL ASSOCIATED DUCTWORK, DUCT INSULATION, GRILLES/ REGISTERS/ DIFFUSERS, DAMPERS AND DUCT MOUNTED DEVICES. DEMOLISH EXISTING ELECTRIC CABINET UNIT HEATER AND ALL ASSOCIATED DUCTWORK, DUCT INSULATION, GRILLES/ REGISTERS/ DIFFUSERS, DAMPERS, DUCT MOUNTED DEVICES, CONTROLS, CONTROLS, CONTROLS, CONTROL WIRING, ETC.
6. DEMOLISH EXISTING RETURN AIR DUCTWORK, DUCT INSULATION, GRILLES/ REGISTERS/ DIFFUSERS, DAMPERS, DUCT MOUNTED DEVICES, CONTROLS, CONTROL WIRING, ETC. DEMOLISH EXISTING RETURN AIR DUCTWORK, DUCT INSULATION, GRILLES/ REGISTERS/ DIFFUSERS, DAMPERS, DUCT MOUNTED DEVICES, CONTROLS, CONTROL WIRING, ETC.

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DATE:

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CERTIFICATE OF AUTHORIZATION AC-438

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SHEET CONTENTS:

MECHANICAL DEMOLITION FLOOR PLAN

PROJECT TITLE:

RENOVATION FOR
MAINTENANCE BUILDING
BURLINGTON COUNTY
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:

XXX

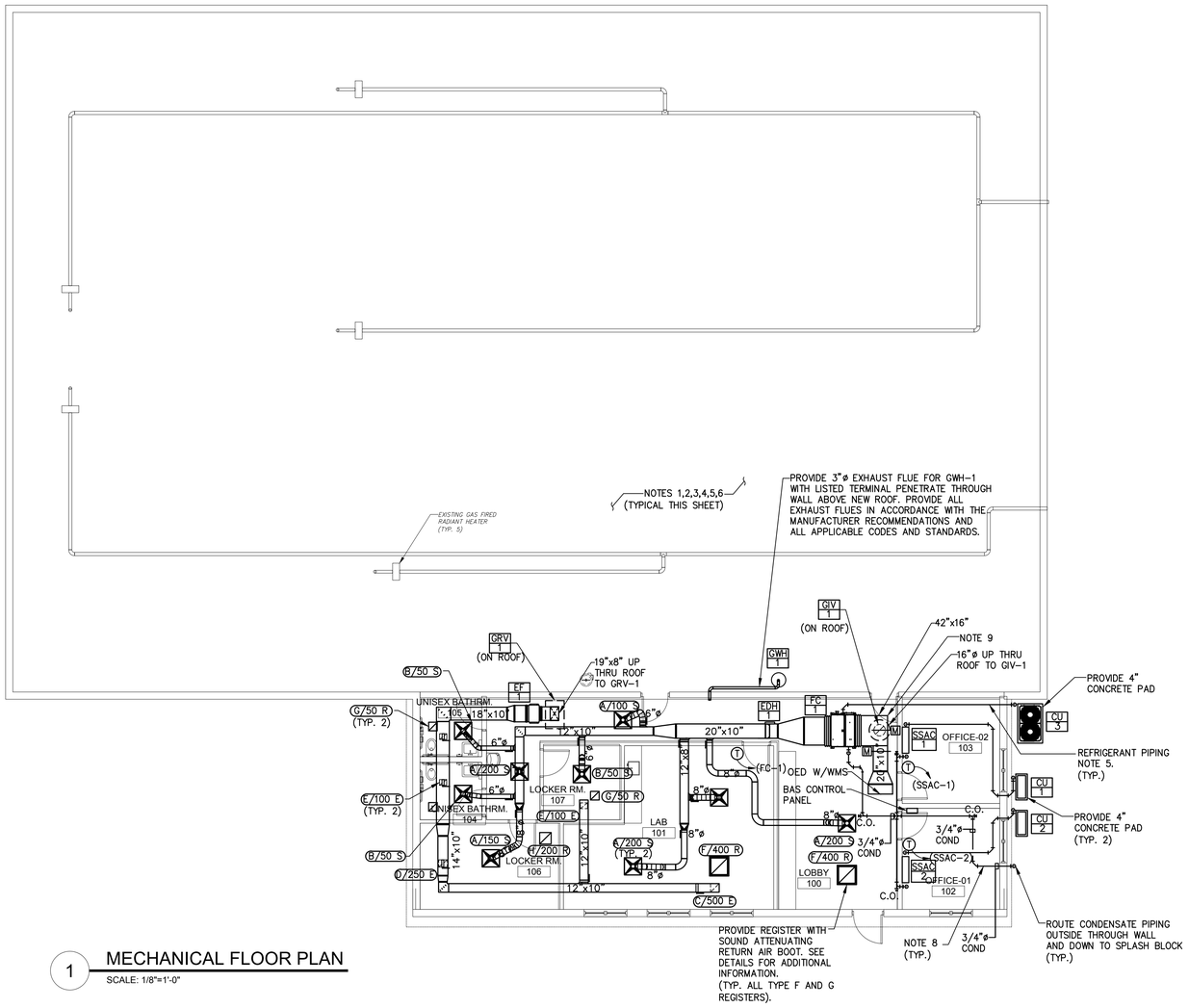
DATE	REVISIONS	BY	CHKD

Date	10.08.24
Scale	AS SHOWN
Drawn by	B.K.
Checked by	
Job No.	2241869

Drawing No.

M-1.1

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1 MECHANICAL FLOOR PLAN

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

NOTES:

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
2. THIS NEW WORK PLAN HAS BEEN PROVIDED AS A GUIDE TO CONVEY THE DESIGN INTENT. ALL NEW WORK REQUIRED TO SUCCESSFULLY COMPLETE THIS PROJECT SHALL BE INCLUDED IN THE SCOPE OF WORK. IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS TO SECURE A COMPLETELY INTERCONNECTED AND FUNCTIONING SYSTEM AND IF ANY WORKMANSHIP OR MATERIALS BE REQUIRED WHICH ARE OBVIOUSLY NECESSARY TO CARRY OUT THE FULL INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS OR TO BE REASONABLY INFERRED THEREFROM, THE COST OF SUCH WORKMANSHIP OR MATERIALS SHALL BE INCLUDED IN THE SCOPE OF WORK. ALL EXISTING SYSTEMS NOT SPECIFICALLY SHOWN OR NOTED TO BE REMOVED/ MODIFIED ON THE DRAWINGS SHALL REMAIN IN SERVICE AND BE UNDISTURBED.
3. DUCTWORK ROUTINGS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL ROUTINGS IN THE FIELD TO AVOID INTERFERENCES. CONTRACTOR TO COORDINATE DUCTWORK/UNIT INSTALLATION WITH ALL STRUCTURAL STEEL, ELECTRICAL CONDUIT, SYSTEMS WIRING/CABLE, CLOCK SYSTEM, FIRE PROTECTION PIPING, PLUMBING PIPING (SANITARY DRAINAGE, ROOF DRAINAGE, DOMESTIC HOT/COLD WATER AND GAS PIPING), ETC. AS REQUIRED. ALL MODIFICATIONS MADE TO THE NEW DUCTWORK OR PIPING TO RESOLVE INTERFERENCES SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. SEE DIVISION 16 DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. CONTRACTOR TO PROVIDE FIRE STOPPING SLEEVES AS REQUIRED FOR ALL PROPOSED CORRIDOR/ FIREWALL/FLOOR/ROOF PENETRATIONS.
5. PROVIDE REFRIGERATION PIPING IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. ALL PIPE ROUTINGS SHOWN ARE APPROXIMATE. REFRIGERATION PIPING SHOWN ON THIS PLAN REFLECTS BOTH SUCTION AND LIQUID PIPING. THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD COORDINATE ALL FINAL PIPE ROUTINGS IN THE FIELD TO AVOID INTERFERENCES AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL FIELD VERIFY FINAL LENGTH OF ALL HORIZONTAL AND VERTICAL REFRIGERANT PIPING RUNS (INCLUDING ALL FITTINGS) BETWEEN EQUIPMENT FOR PIPE SIZE CONFIRMATION. PROVIDE ALL VALVES, FILTERS, AND OTHER ACCESSORIES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER. ALL REFRIGERATION SUCTION PIPING SHALL BE INSULATED – SEE DIVISION 23 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6. NOT ALL INLINE DEVICES (VALVES, DAMPERS, REDUCERS, GAUGES, ETC.) HAVE BEEN SHOWN ON THE PLANS FOR CLARITY. SEE PIPING DETAILS ON MECHANICAL DETAIL DRAWINGS FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL PROVIDE ALL INLINE DEVICES (VALVES, DAMPERS, REDUCERS, GAUGES, ETC.) AS REQUIRED TO COMPLETE THE INSTALLATION EVEN IF NOT SPECIFICALLY SHOWN ON THE PLANS OR DETAILS.
7. LOCATION OF ALL CEILING MOUNTED GRILLES, REGISTERS AND DIFFUSERS SHOWN ON THIS SHEET ARE APPROXIMATE. CONTRACTOR SHALL FIELD ADJUST ALL LOCATIONS BASED ON THE CEILING GRID LAYOUT AS REQUIRED TO COMPLETE THE INSTALLATION AT NO ADDITIONAL COST TO THE OWNER
8. PROVIDE A MINIMUM HORIZONTAL SLOPE OF NO LESS THAN 1/8" EVERY 12" FOR CONDENSATE LINES.
9. CONTRACTOR TO INSTALL FIELD FABRICATED MIXING BOX WITH RA/OA DAMPERS.

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REMINGTON & VERNICK **ENGINEERS**
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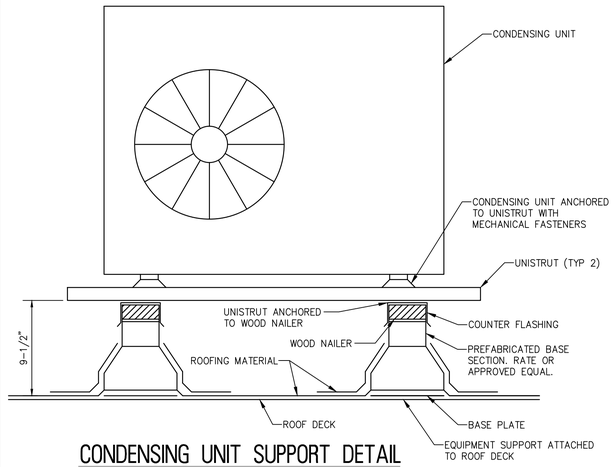
DATE	REVISIONS	BY	CHKD

Date	10.08.24
Scale	AS SHOWN
Drawn by	B.K.
Checked by	
Job No.	2241869

Drawing No.

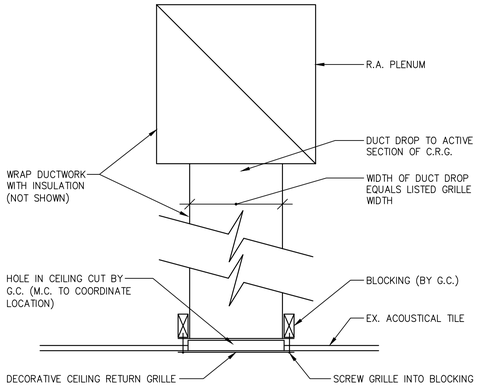
M-2.1

F:\Projects\Burlington County\MAINTENANCE\Sheets\M-2.1 Mechanical Floor Plan.dwg 10/3/2025 3:55:31 PM



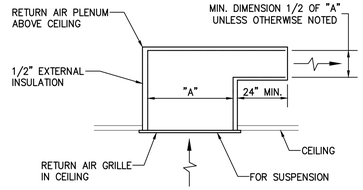
CONDENSING UNIT SUPPORT DETAIL

N.T.S.



CEILING RETURN GRILLE DETAIL

N.T.S.

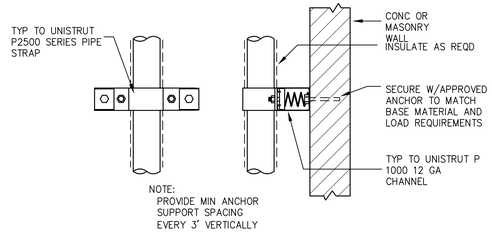


NOTES:

1. FACE RETURN AIR BOOT TOWARD AHU/ RTU RETURN AIR INLET WHERE CONSTRUCTION PERMITS.
2. LOCATE ADJACENT BOOTS AT RIGHT ANGLES TO EACH OTHER.

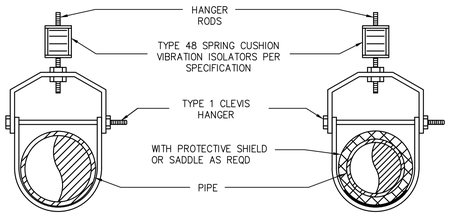
SOUND ATTENUATING RETURN AIR BOOT

N.T.S.



VERTICAL PIPE BRACKET SUPPORT

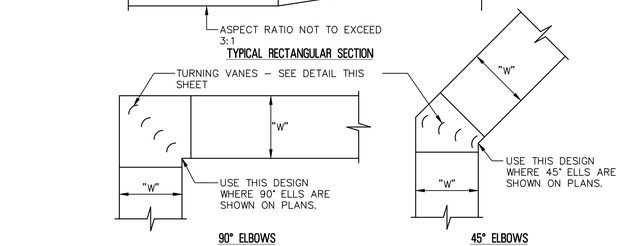
N.T.S.



1. INSTALL PLUMB
2. BORE OF WASHER OR SPRING RETAINER TO BE SAME SIZE AS ROD
3. WELD WASHER OR SPRING RETAINER TO ROD

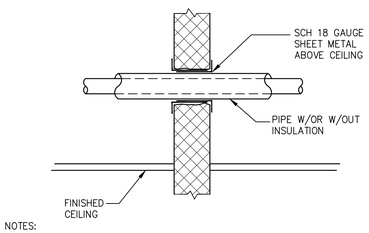
SINGLE PIPE TYPE 1 CLEVIS HANGER

N.T.S.



DETAILS OF DUCT LAYOUT

N.T.S.

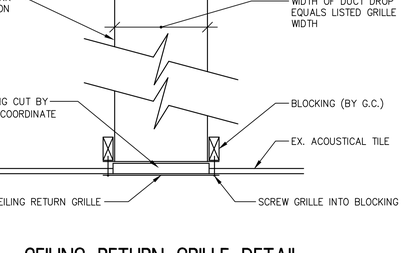


NOTES:

1 TYP FOR NON-INSULATED PIPE AND CONDUIT
2 TYP FOR MASONRY OR CONCRETE WALL
3 FIRE RATED WALLS MUST BE SEALED W/ APPROPRIATE FIRE RETARDANT CAULKING

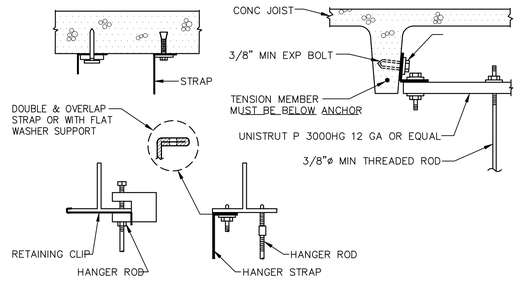
PIPE PENETRATION THRU WALL ABOVE CEILING DETAIL

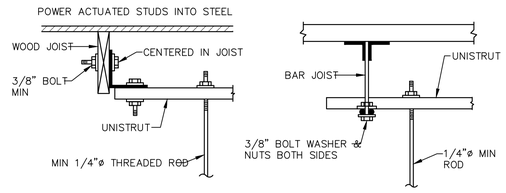
N.T.S.



INLINE FAN DETAIL

N.T.S.





NOTE:

1. ALLOWABLE LOADS AND ELEMENT SIZING SEALED BY REGISTERED ENGINEER IN STATE OF NEW JERSEY.

UPPER ATTACHEMENT AND JOIST HANGERS FOR DUCTWORK DETAIL

N.T.S.

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BURLINGTON COUNTY
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:
XXX

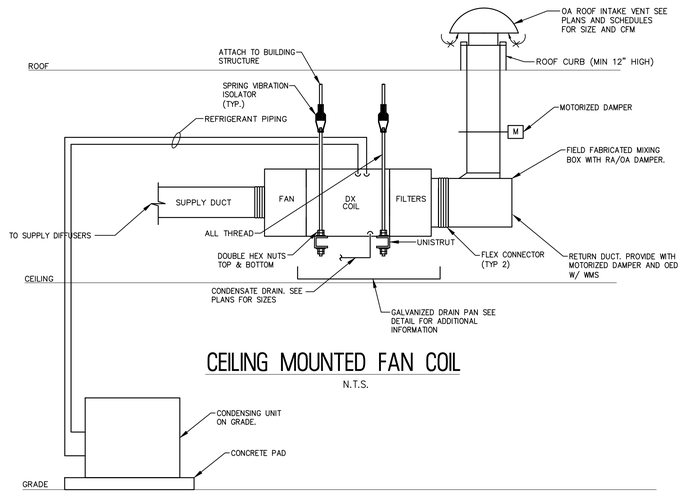
DATE	REVISIONS	BY	CHKD

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Job No.	2241869

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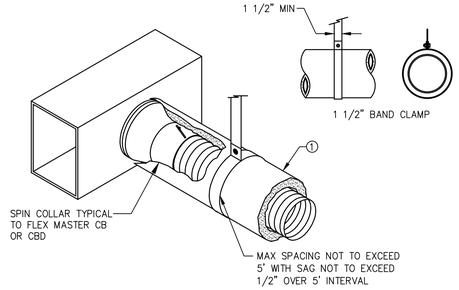
M-3.1

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CEILING MOUNTED FAN COIL

N.T.S.



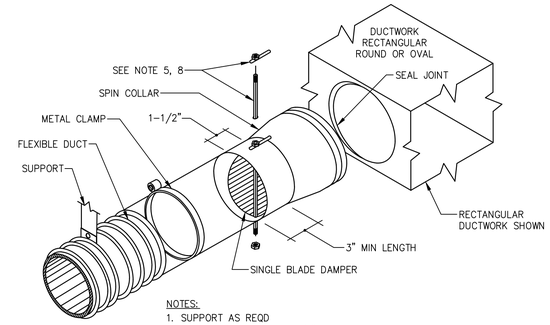
GAUGE	THK.	1" STRAP CAPABILITY	MAXIMUM LOAD
24	.028	840	168
22	.034	1070	216
20	.040	1298	259

* ELASTIC LIMIT ASSUMED 30ksi; RECOMMEND MAX LOAD (20% OF YIELD STRENGTH).

NOTES:
1. FLEX DUCT WITH EXTERNAL INSULATION AND VAPOR BARRIER JACKETING.

SUGGESTED SUPPORT REQUIREMENTS FOR FLEX & STRAIGHT RECTANGULAR DUCT

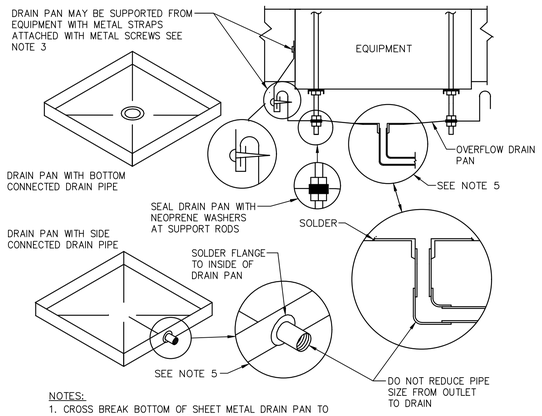
N.T.S.



NOTES:
1. SUPPORT AS REQD
2. BAND FLEX TO COLLAR 1/2" MIN FROM OUTBOARD END OF COLLAR
3. INSTALL SPIN COLLAR DAMPER IN OPEN POSITION; FINAL ADJUSTMENT BY TAB CONTRACTOR
4. PULL FLEXIBLE DUCTWORK INSULATION UP TO END OF SPIN COLLAR AT EDGE OF RECTANGULAR DUCTWORK; SEAL VAPOR BARRIER W/GREY TAPE TO PREVENT MOISTURE MIGRATION
5. PROVIDE EXTENSION RODS TO ACCOMMODATE INSULATION, PULL TO EDGE OF DUCTWORK AS REQD AND SEAL TO EFFECT VAPOR BARRIER
6. POP RIVET OR SHEET METAL SCREWS, MIN 3 EA AT 120° INTERVALS, CONNECTING STOVEPIPE TO COLLAR. ENSURE RIVETS OR SCREWS DO NOT INTERFERE W/DAMPER
7. TAPE AND SEAL ALL JOINTS TO PREVENT LEAKAGE
8. INSTALL LOCKING QUADRANT AND HANDLE ON BOTTOM OF DUCT FOR EASY SERVICE (SHOWN ON TOP FOR EASE OF ILLUSTRATION ONLY)

SPIN COLLAR FLEXIBLE DUCT CONNECTOR WITH DAMPER

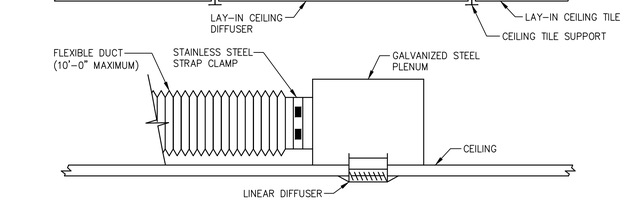
N.T.S.



NOTES:
1. CROSS BREAK BOTTOM OF SHEET METAL DRAIN PAN TO PROVIDE SLOPED DRAINAGE TO OUTLET
2. SOLDER OR OTHERWISE SEAL ALL JOINTS TO MAKE DRAIN PAN LEAK TIGHT
3. SUSPEND DRAIN PAN WITH EQUIPMENT SUPPORT RODS WHEN POSSIBLE, OTHERWISE ATTACH WITH STRAPS TO EQUIPMENT
4. FABRICATE DRAIN PAN FROM 24 GA GALV SHEET METAL
5. ROUTE DRAIN TO CODE APPROVED CONSPICUOUS LOCATION AND PIPE SEPERATELY FROM CONDENSATE DRAIN PIPE

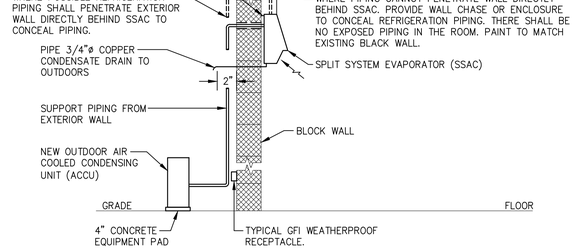
CONDENSATE OVERFLOW DRAIN PAN

N.T.S.



FLEXIBLE BRANCH DUCT WORK

N.T.S.



NOTES:
1. CONTRACTOR TO COORDINATE & VERIFY IN FIELD ALL MOUNTING LOCATIONS AND TYPES.
2. MOUNT AND ANCHOR CONDENSING UNIT ON EQUIPMENT PAD. CONDENSATE FROM INDOOR UNIT TO BE PIPED TO OUTDOORS. PROVIDE CONDENSATE PUMP, IF REQUIRED.
3. REFER TO DIVISION 15 SPECIFICATIONS FOR ADDITIONAL INFORMATION.

TYPICAL DUCTLESS SPLIT SYSTEM INSTALLATION DETAIL

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Drawn by	B.K.
Checked by	
Job No.	2241869

Drawing No.
M-3.2

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VENTILATION SCHEDULE

ROOM NAME	EQUIPMENT TAG NUMBER	APPROX. AREA (SF)	OCCUPANT DENSITY # PEOPLE/ 1000 SF	NUMBER OF PEOPLE & / OR FIXTURES	VENTILATION AIR REQUIREMENTS (ASHRAE 62, INTERNATIONAL MECH CODE 2021)											OUTDOOR AIR	EXHAUST AIR	RETURN AIR	SUPPLY AIR
					PEOPLE OUTDOOR AIRFLOW RATE Rp	TOTAL PEOPLE OUTDOOR AIRFLOW (CFM)	AREA OUTDOOR AIRFLOW RATE Ra	TOTAL AREA OUTDOOR AIRFLOW (CFM)	BREATHING ZONE OUTDOOR AIRFLOW (CFM) Vbz	ZONE AIR DISTRIBUTION EFFECTIVENESS (COOLING) Ez	ZONE AIR DISTRIBUTION EFFECTIVENESS (HEATING) Ez	ZONE OUTDOOR AIRFLOW (CFM) Voz	PRIMARY OUTDOOR AIR FRACTION Zp	EXHAUST AIRFLOW RATE	TOTAL EXHAUST AIRFLOW (CFM)	CORRECTED DESIGN TOTAL (CFM) Vot	DESIGN TOTAL (CFM)	DESIGN TOTAL (CFM)	DESIGN TOTAL (CFM)
LOBBY 101	FC-1	557	10	6 PEOPLE	3 CFM / PERSON	18	0.06 CFM/SQ FT	33	51	1.0	0.8	64	0.1	N/A	N/A	500	0	0	500
LAB 101	FC-1/ EF-1	400	5	2 PEOPLE	4 CFM / PERSON	8	0.06 CFM/SQ FT	24	32	1.0	0.8	40	0.1	N/A	N/A	400	500	0	400
UNISEX BATHROOM 104	FC-1/ EF-1	48	N/A	1 FIXTURE	N/A	N/A	N/A	N/A	N/A	1.0	0.8	N/A	N/A	70 CFM/FIXTURE	70	50	100	0	50
UNISEX BATHROOM 105	FC-1/ EF-1	48	N/A	1 FIXTURE	N/A	N/A	N/A	N/A	N/A	1.0	0.8	N/A	N/A	70 CFM/FIXTURE	70	50	100	0	50
LOCKER ROOM 106	FC-1/ EF-1	163	N/A	N/A	N/A	0	N/A	0	0	1.0	0.8	N/A	N/A	0.5 CFM/SQ.FT	82	150	250	0	150
LOCKER ROOM 107	FC-1/ EF-1	78	N/A	N/A	N/A	0	N/A	0	0	1.0	0.8	N/A	N/A	0.5 CFM/SQ.FT	39	50	100	0	50
NOTES:		1,564													TOTAL	1,200	1,050	0	1,200

1. VENTILATION RATES ARE CALCULATED IN ACCORDANCE WITH SECTION 403 OF THE 2021 INTERNATIONAL MECHANICAL CODE.

CONDENSING UNIT SCHEDULE

TAG	EQUIPMENT SERVED	COOLING		HEATING	CORRECTED COOLING CAPACITY (MBH)	CORRECTED HEATING CAPACITY (MBH)	IEER / EER (MIN.)	COP (MIN.)	APPROXIMATE WEIGHT (LBS)	UNIT DIMENSIONS (IN.) (H x W x D)	ELECTRICAL V/PH/HZ	MIN. CIRCUIT AMPACITY (AMPS)	MAX OVERCURRENT PROT. RTG. (AMPS)	BASIS OF DESIGN	NOTES
		TONAGE NOMINAL	MBH (TOTAL)	MBH (TOTAL)											
CU-3	FC-1	8.0	96.0	108.0	97.8	81.0	22.15	3.61	653	71.62" x 48.87" x 29.16"	208/3/60	63.0	100	TRANE TPEFYP0960A140A	SEE BELOW

NOTES:
1. Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
2. Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
3. Efficiency values for EER, IEER, COP are based on AHRI 1230 test method for mixture of ducted & non-ducted indoor units.
4. Provide added field charge as required as per manufacturers requirements.
5. Corrected capacities shown are based on lowest guaranteed outdoor temperature.
6. Provide Panel Heater Kit to Prevent Ice Buildup on Outdoor Drain Pan

DUCTLESS SPLIT SYSTEM SCHEDULE

TAG	ROOM SERVED	TYPE	TOTAL HEATING CAPACITY (BTU/HR)	TOTAL COOLING CAPACITY (BTU/HR)	INDOOR UNIT				OUTDOOR UNIT			ELECTRICAL V/PH/HZ	SEER/EER	BASIS OF DESIGN MANUFACTURER	NOTES
					CFM (LOW TO HIGH)	APPROXIMATE UNIT DIMENSIONS (W x D x H) (IN)	WEIGHT (LBS)	MODEL NUMBER	APPROXIMATE UNIT DIMENSIONS (W x D x H) (IN)	WEIGHT (LBS)	MODEL NUMBER				
SSAC-1/ CU-1	103	DUCTLESS	14,000	9,000	137-167-221-304-381	36-7/16 x 9-3/16 x 12 (+11/16)	29	NTXWPH06B112AA	31-1/2 x 11-1/4 x 21-5/8	83	NTXSP806B112AA	208/1/60	32.2/19.0	TRANE	1,2,3,4,5
SSAC-2/ CU-2	102	DUCTLESS	14,000	9,000	137-167-221-304-381	36-7/16 x 9-3/16 x 12 (+11/16)	29	NTXWPH06B112AA	31-1/2 x 11-1/4 x 21-5/8	83	NTXSP806B112AA	208/1/60	32.2/19.0	TRANE	1,2,3,4,5

NOTES:
1. ELECTRICAL POWER FOR EVAPORATORS IS SUPPLIED FROM CONDENSING UNIT.
2. PROVIDE UNITS WITH WALL MOUNTED REMOTE CONTROLLER KIT BY MITSUBISHI/TRANE, REFRIGERANT PIPING AND CHARGE, MOUNTING EQUIPMENT, AND ALL OTHER ACCESSORIES REQUIRED TO OPERATE AND INSTALL UNIT.
3. PROVIDE UNIT WITH CONDENSATE PUMP. PROVIDE CONDENSATE PUMPS ABOVE CEILING WITH STAINLESS STEEL DRAIN PAN AND OVERFLOW ALARM.
4. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95°F (DB).
5. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB).

ELECTRIC DUCT HEATER SCHEDULE

TAG	UNITS SERVED	HEATER TYPE	AIRFLOW (CFM)	MAXIMUM STATIC PRESSURE LOSS (IN. W.C.)	INSIDE DUCT WIDTH REQUIRED (IN.)	INSIDE DUCT HEIGHT REQUIRED (IN.)	EAT	LAT	MBH	KW	ELECTRICAL V/PH/HZ	ELECTRICAL AMPS	BASIS OF DESIGN	NOTES
EDH-1	FC-1	FINNED TUBULAR	1200	0.10	20	10	55	90	45.4	13.50	208/3/60	37.47	WARREN CBK	1, 2, 3, 4, 5, 6 & 7

NOTES:
1. PROVIDE WITH DISCONNECT SWITCH, STARTER/CONTACTOR AND AIRFLOW SWITCH.
2. PROVIDE WITH SCR CONTROL WITH 0-10VDC INPUT AND PROPORTIONAL CONTROL.
3. PROVIDE WITH AUTOMATIC AND MANUAL THERMAL CUTOUT.
4. PROVIDE WITH DRY CONTACT FOR REMOTE HEATER ENABLE AND CONTROL CIRCUIT TRANSFORMER.
5. HEATER SHALL BE U.L. LISTED.
6. PROVIDE WITH FUSES.
7. PROVIDE WITH 304 STAINLESS STEEL ELEMENTS.

EXHAUST FAN SCHEDULE

TAG	ROOMS SERVED/SERVICE	FAN TYPE	CFM	TOTAL S.P. (in. w.c.)	MAX. RPM	MOTOR HP OR WATTS	DRIVE TYPE	ELECTRICAL V/PH/HZ	SONES	ROOF / WALL OPENING SIZE	APPROXIMATE WEIGHT (LBS)	BASIS OF DESIGN	NOTES
EF-1	101,104,105,106,107	INLINE	1,050	0.2	1137	1/3	DIRECT	115/1/60	1.9	24"x14"	49	GREENHECK CSP-A1050-VG	1

NOTES:
1. PROVIDE FAN WITH ALUMINUM WHEEL, GALVANIZED STEEL HOUSING, GRAVITY BACKDRAFT DAMPER, FAN SPEED CONTROLLER, UNIT MOUNTED DISCONNECT SWITCH IN NEMA 1 ENCLOSURE (WITH INTEGRAL STARTER), HANGING VIBRATION ISOLATORS, FLEX DUCT CONNECTIONS, INSULATED HOUSING, MOUNTING ACCESSORIES, AND ALL OTHER DEVICES AND ACCESSORIES REQUIRED TO INSTALL AND OPERATE FAN.

FAN COIL SCHEDULE

TAG	ROOM(S) SERVED	MOUNTING LOCATION	SERVED BY CONDENSING UNIT	DESIGN SUPPLY AIRFLOW (CFM)	UNIT SUPPLY AIRFLOW (CFM)	DESIGN OUTDOOR AIRFLOW (CFM)	DESIGN TONS	MAX. COOLING CAPACITY (MBH)	MAX. HEATING CAPACITY (BTUH)	APPROXIMATE DIMENSIONS (H x W x D)	BASIS OF DESIGN	ELECTRICAL V/PH/HZ	MCA	MOCA	NOTES
FC-1	100,101,106,107	CEILING	CU-3	1200	1200	1,200	8	96	57	18.5" x 49.25" x 44.13"	TRANE TPEFYP0960A140A	208/1/60	4.8	15	SEE BELOW

NOTES:
1. PROVIDE SYSTEM WITH TEMPERATURE & HUMIDITY SENSORS, CONTROLLERS, REFRIGERANT PIPING AND CHARGE, AUXILIARY DRAIN PAN, AND ALL REQUIRED MOUNTING ACCESSORIES. PROVIDE ALL CONTROL DEVICES REQUIRED TO OPERATE EQUIPMENT IN ACCORDANCE WITH THE SEQUENCE OF OPERATIONS.
3. PROVIDE WITH SECONDARY DRAIN PAN AND WATER LEVEL ALARM
4. PROVIE FIELD FABRICATED FILTER BOX. COORDINATE LOCATION FOR SERVICING AND ACCESSIBILITY.

GRAVITY VENTILATOR SCHEDULE

TAG	SERVICE	SYSTEM(S) SERVED	CFM	ROOF OPENING	THROAT AREA (SQ. FT.)	NUMBER OF TIERS	INTAKE AREA (SQ. FT.)	HOOD SIZE	BASIS OF DESIGN	NOTES
GIV-1	INTAKE	FC-1	1,200	26' x26'	1.4	1	3.02	29' DIA.	GREENHECK GRSI-16	1
GRV-1	RELIEF	EXHAUST	1,050	12"x18'	1.5	1	N/A	26"x 39'	GREENHECK GRM-FGR	1

NOTES: 1. PROVIDE WITH BIRDSCREEN, ROOF CURB, AND AUTOMATIC BACKDRAFT DAMPER

DIFFUSER, REGISTER & GRILLE SCHEDULE

TAG	DESCRIPTION	FACE	NECK	DIRECTION	BASIS OF DESIGN		
					MANUFACTURER	MODEL NUMBER	NOTES
A	DIFFUSER	24"x24"	8"ø	SUPPLY	PRICE	ASCD	1,2,3,4,5
B	DIFFUSER	24"x24"	6"ø	SUPPLY	PRICE	ASCD	1,2,3,4,5
C	REGISTER	12"x12"	12"x12"	EXHAUST	PRICE	80	1,2,3,4,5
D	REGISTER	12"x10"	12"x10"	EXHAUST	PRICE	80	1,2,3,4,5
E	REGISTER	10"x8"	10"x8"	EXHAUST	PRICE	80	1,2,3,4,5
F	REGISTER	24"x24"	24"x24"	RETURN	PRICE	630	1,2,3,4,5
G	REGISTER	12"x12"	12"x12"	RETURN	PRICE	630	1,2,3,4,5
H	REGISTER	16"x16"	16"x16"	RETURN	PRICE	630	1,2,3,4,5

NOTES:
1. COORDINATE MOUNTING FRAME WITH CEILING/WALL TYPE.
2. COORDINATE COLOR & FINISH WITH ARCHITECT.
3. PROVIDE GRILLE WITH BORDER FLANGE FOR LAY-IN TYPE CEILINGS. SEE PLANS FOR LOCATIONS.
4. PROVIDE WITH ALUMINUM OPPOSED BLADE DAMPERS.
5. NC (NOISE CRITERIA) LEVEL MAY BE NO GREATER THAN 25.

ISSUED FOR BID
DATE: 01-10-2025

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DATE:

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SHEET CONTENTS:

MECHANICAL SCHEDULES

PROJECT TITLE:

RENOVATION FOR MAINTENANCE BUILDING
BURLINGTON COUNTY
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:
XXX

DATE	REVISIONS	BY	CHKD

Date	10.08.24
Scale	AS SHOWN
Drawn by	B.K.
Checked by	
Job No.	2241869

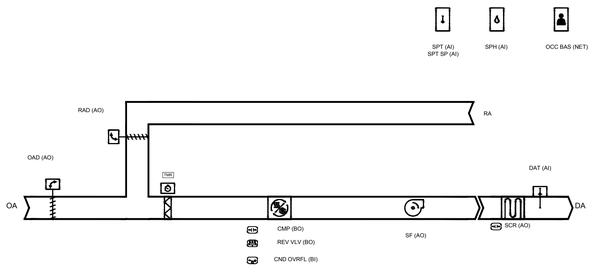
Drawing No.

M-4.1

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Points List: FAN COIL

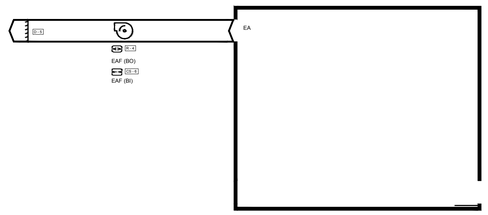
System Point Description	POINTS										ALARMS					
	GRAPHIC	ANALOG HARDWARE INPUT (AI)	BINARY HARDWARE INPUT (BI)	ANALOG HARDWARE OUTPUT (AO)	BINARY HARDWARE OUTPUT (BO)	SOFTWARE POINT (SFT)	HARDWARE INTERLOCK (HDW)	WIRELESS (WLS)	NETWORK (NET)	HIGH ANALOG LIMIT	LOW ANALOG LIMIT	BINARY	LATCH DIAGNOSTIC	SENSOR FAIL	COMMUNICATION FAIL
SUPPLY FAN SF	X			X											
COMPRESSOR COMMAND CMP					X										
CONDENSATE OVERFLOW DETECTION LOCAL CND OVRFL	X		X									X	X		
DISCHARGE AIR TEMPERATURE DAT	X	X								X	X			X	
ELECTRIC HEAT SCR SCR	X			X											
OUTDOOR AIR DAMPER OAD	X			X											
RETURN AIR DAMPER RAD	X			X											
REVERSING VALVE REV VLV	X				X										
SPACE HUMIDITY LOCAL SPH	X	X													
SPACE TEMPERATURE LOCAL SPT	X	X								X	X			X	
SPACE TEMPERATURE SETPOINT LOCAL SPT SP	X	X													
BAS COMMUNICATION STATE BAS COM						X									X
FILTER TIMER HOURS FIL HRS						X						X	X		
MAINTENANCE REQUIRED MNT REQ						X						X			
SPACE TEMPERATURE SETPOINT ACTIVE SPT SP ACT	X					X									
OCCUPIED BYPASS TIMER OCC TMR						X									
OCCUPANCY BAS OCC BAS	X								X						



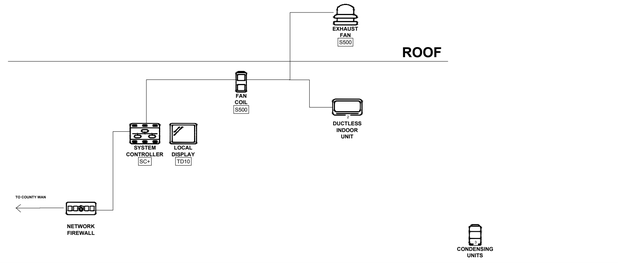
Flow Diagram: FAN COIL

Points List: EXHAUST FAN

System Point Description	POINTS										ALARMS					
	GRAPHIC	ANALOG HARDWARE INPUT (AI)	BINARY HARDWARE INPUT (BI)	ANALOG HARDWARE OUTPUT (AO)	BINARY HARDWARE OUTPUT (BO)	SOFTWARE POINT (SFT)	HARDWARE INTERLOCK (HDW)	WIRELESS (WLS)	NETWORK (NET)	HIGH ANALOG LIMIT	LOW ANALOG LIMIT	BINARY	LATCH DIAGNOSTIC	SENSOR FAIL	COMMUNICATION FAIL
EXHAUST FAN STATUS EAF	X		X												
EXHAUST FAN START STOP COMMAND EAF	X				X										
BAS COMMUNICATION STATE BAS COM						X									



Flow Diagram: EXHAUST FAN



BUILDING AUTOMATION SYSTEM CONTROL SCHEMATIC

N.T.S.

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SHEET CONTENTS:

MECHANICAL SCHEMATICS

PROJECT TITLE:

RENOVATION FOR
MAINTENANCE BUILDING
BURLINGTON COUNTY
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:
XXX

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Date	10.08.24
Scale	AS SHOWN
Drawn by	B.K.
Checked by	
Job No.	2241869

Drawing No.

M-4.2

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ELECTRICAL SYMBOLS

(ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT)

- 2'x4' LED LIGHT FIXTURE (A – INDICATES FIXTURE TYPE)
- 2'x4' EMERGENCY LED LIGHT FIXTURE (AE – INDICATES FIXTURE TYPE)
- 2'x2' LED LIGHT FIXTURE
- 2'x2' EMERGENCY LED LIGHT FIXTURE
- 5"x4' LED LIGHT FIXTURE
- 5"x4' EMERGENCY LED LIGHT FIXTURE
- DOWNLIGHT LIGHT FIXTURE
- EMERGENCY DOWNLIGHT LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- WALL MOUNTED EMERGENCY LIGHT FIXTURE
- EXIT SIGN (SHADED AREA INDICATES FACE) (ARROW INDICATES DIRECTION) (XW – WALL MOUNTED) (XC – CEILING MOUNTED)
- COMBINATION EXIT SIGN W/ DUAL REMOTE HEADS
- DUAL HEAD EMERGENCY BATTERY BACKUP
- DUAL REMOTE HEADS
- SWITCH, SINGLE POLE TOGGLE
- SWITCH, 3–WAY TOGGLE
- SWITCH, 4–WAY TOGGLE
- SWITCH, DIMMER
- SWITCH, KEY OPERATED
- SWITCH, PILOT LIGHT
- SWITCH, LOW VOLTAGE
- FRACTIONAL HP STARTER
- OCCUPANCY SENSOR – P – PASSIVE INFRARED; U – ULTRASONIC; D – DUAL TECHNOLOGY
- SITE LIGHT
- UTILITY POLE
- DAYLIGHT SENSOR
- RECEPTACLE, DUPLEX – (K – KEY LOCKING STEEL COVER) (S – SURGE PROTECTOR) (L – LOCKING COVER) (+ – MOUNT 8" ABOVE COUNTERTOP) (T – TAMPER PROOF) (U – DUPLEX WITH USB PORT)
- RECEPTACLE, QUAD
- RECEPTACLE, SINGLE
- RECEPTACLE, GFI – (WP–WEATHERPROOF IN–USE COVER)
- RECEPTACLE, EMERGENCY
- RECEPTACLE, SPECIAL (NEMA CONFIGURATION INDICATED)
- RECEPTACLE, DUPLEX FLOOR MOUNT (POKE–THRU)
- RECEPTACLE, CEILING MOUNTED
- FLOOR BOX WITH (2) DUPLEX RECEPTACLES
- DUPLEX RECEPTACLE AND CATV RECEPTACLE
- JUNCTION BOX
- JUNCTION BOX, FLOOR MOUNTED
- JUNCTION BOX, TELEPHONE
- JUNCTION BOX, DATA
- JUNCTION BOX, TELEPHONE/DATA
- JUNCTION BOX, POWER
- ELECTRIC FLUSH VALVE TRANSFORMER JUNCTION BOX – ABOVE CEILING
- PANELBOARD – SURFACE MOUNTED
- PANELBOARD – FLUSH MOUNTED
- CIRCUIT BREAKER IN ENCLOSURE
- CIRCUIT BREAKER
- LOW VOLTAGE DRAWOUT BREAKER
- MEDIUM VOLTAGE DRAWOUT BREAKER
- DELTA CONFIGURATION
- WYE CONFIGURATION
- ELECTRICALLY INTERLOCKED
- ELECTRIC UTILITY METER
- INTERMEDIATE DISTRIBUTION FRAME
- MAIN DISTRIBUTION FRAME
- CURRENT TRANSFORMER
- GENERATOR
- TRANSFORMER
- POTENTIAL TRANSFORMER

- MV SWITCH GEAR
- GROUND ROD (10' x 3/4")
- MOTOR
- NON–FUSED DISCONNECT SWITCH – XXX/XXX/XX – INDICATES (RATED FRAME AMPS/VOLTS/# OF POLES)
- FUSED DISCONNECT SWITCH XXX/XXX/XXX/XX – INDICATES (RATED FRAME AMPS/FUSE AMPS/VOLTS/# OF POLES)
- COMBINATION STARTER/DISCONNECT SWITCH
- MAGNETIC STARTER
- KEY OPERATED CONTROL STATION
- MAGNETIC CONTACTOR
- PHOTOCELL
- TIME CLOCK SWITCH
- RELAY
- HAND DRYER
- GROUNDING ELECTRODE
- NON FUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- FUSED POTENTIAL TRANSFORMER
- AUTOMATIC TRANSFER SWITCH L – LOAD; N – NORMAL POWER; E – EMERGENCY POWER
- LIGHTNING ARRESTER
- SURGE PROTECTIVE DEVICE WITH DISCONNECT
- HEAT TRACE CABLING
- RESISTOR TEMPERATURE DEVICE
- EXPOSED RACEWAY
- LOW VOLTAGE WIRING
- CONDUIT CONCEALED IN WALLS OR CEILING
- EMERGENCY CIRCUIT
- CONDUIT CONCEALED IN OR UNDER FLOOR OR UNDERGROUND
- NON–SWITCHED CIRCUIT
- HOMERUN – CIRCUIT & PANEL AS INDICATED (2#12 + 1#12G, 3/4"C, UNLESS OTHERWISE NOTED)
- CABLE TRAY
- SURFACE RACEWAY, WIREMOLD
- FIRE ALARM PULL STATION
- FIRE ALARM STROBE LIGHT – (XXcd – CANDELA RATING)
- FIRE ALARM SPEAKER (SUBSCRIPT 'C' INDICATE CEILING MOUNTED)
- FIRE ALARM/BELL
- COMBINATION FIRE ALARM SPEAKER/STROBE – (XXcd – CANDELA RATING) (CEILING)
- COMBINATION FIRE ALARM SPEAKER/STROBE – (XXcd – CANDELA RATING)
- FIRE ALARM CODE BLUE
- PHOTO–ELECTRIC TYPE SMOKE DETECTOR
- HEAT DETECTOR (COMBINATION FT/RR U.O.N., AC–ABOVE CEILING.)
- COMBINATION HEAT/SMOKE DETECTOR
- PHOTO–ELECTRIC TYPE DUCT SMOKE DETECTOR
- FIRE ALARM CONTROL PANEL
- REMOTE ANNUNICATOR PANEL
- SPRINKLER FLOW SWITCH
- SPRINKLER TAMPER SWITCH
- FIRE ALARM GONG
- FIRE ALARM ANNUNCIATION PANEL
- DIGITAL ALARM COMMUNICATOR TRANSMITTER
- CARBON MONOXIDE TYPE DUCT DETECTOR (WP – WEATHERPROOF)
- CARBON MONOXIDE DETECTOR (WALL MOUNTED)
- PTZ CAMERA (AUDITORIUM)
- LIGHTING SYSTEM (AUDITORIUM)
- PEOPLE COUNTER SENSOR

- NITROGEN DIOXIDE DETECTOR
- CARBON DIOXIDE DETECTOR
- EMERGENCY GAS SHUTOFF
- EMERGENCY BOILER SHUTOFF
- EMERGENCY ELECTRIC SHUTOFF
- REMOTE KEY PAD
- ELECTRONIC DOOR LOCK
- MAGNETIC DOOR HOLDER
- KEY FOB
- PANIC ALARM BUTTON
- SECURITY/VIDEO CAMERA (WP – WEATHERPROOF) (PTZ – PAN, TILT, ZOOM)
- WIRELESS OCCUPANCY SENSOR
- WIRELESS RELAY SWITCH
- WIRELESS ACCESS CONTROL
- WIRELESS ACCESS POINT
- CARD READER
- ELECTRONIC DOOR CONTACT
- REQUEST TO EXIT
- INFRARED SENSOR
- MOTION SENSOR
- AIR PHONE INTERCOM SYSTEM
- CCTV CAMERA ASSEMBLY W/ DOME COVER
- DUAL CCTV CAMERA ASSEMBLY W/ DOME COVER
- SECURITY MOTION SENSOR
- VOIP OUTLET
- DATA OUTLET – (6 – # OF DROPS)
- COMBINATION VOIP AND DATA OUTLET
- SOUND SYSTEM WALL PHONE
- MASS NOTIFICATION SPEAKER
- SPEAKER – CEILING MOUNTED
- SPEAKER – WALL MOUNTED
- CLOCK/SPEAKER – WALL MOUNTED
- MICROPHONE
- SOUND VOLUME CONTROL
- INTERCOM
- CLOCK/SPEAKER BAFFLE
- HORN LOUDSPEAKER (WP – WEATHERPROOF)
- WALL MOUNTED CLOCK
- BEAM DETECTOR
- PRISM REFLECTOR
- MOTOR STARTER WITH THERMAL OVERLOAD RELAY
- INDICATES EXISTING TO BE DEMOLISHED
- DENOTES POINT OF CONNECTION OF EXISTING TO NEW
- EQUIPMENT DESIGNATION TAG
- SITE LIGHTING (MUSCO LIGHTING SYSTEM)

ABBREVIATIONS

%	PERCENT
&	AND
ø, PH	PHASE
°C.	CENTIGRADE DEGREES
°F.	FAHRENHEIT DEGREES
1/C	SINGLE CONDUCTOR
A.I.C.	AMPERES INTERRUPTING CAPACITY
A.T.C.	AUTOMATIC TEMPERATURE CONTROL
A.T.S.	AUTOMATIC TRANSFER SWITCH
A/C.	AIR CONDITION
AC	ALTERNATING CURRENT
ADDL.	ADDITIONAL
AF	AMPERE FRAME
A–F	AMPERE FUSE
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF/A.F.F.	ABOVE FINISHED FLOOR
AFG/A.F.G.	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AL.	ALUMINUM
AMP., A.	AMPERE
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
AT	AMPERE TRIP
ASY.	ASYMMETRICAL
AUX.	AUXILIARY
B.F.C.	BELOW FINISHED CEILING
BKR.	BREAKER
BLDG.	BUILDING
BSMT.	BASEMENT
C/C.	CONDUIT
C OF U/CFU	COEFFICIENT OF UTILIZATION
C.T., CT	CURRENT TRANSFORMER
CB, CIR. BKR., C/B	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT., CIR, CIRC.	CIRCUIT
CL.	CLOSET
CLG.	CEILING
CO./Co.	COMPANY
COAX.	COAXIAL CABLE
COL.	COLUMN
COMP.	COMPLETE
CONC.	CONCRETE
CONDR.	CONDUCTOR
CONN	CONNECTED, CONNECTOR
CONST.	CONSTRUCTION
CONT.	CONTINUATION
CONTR.	CONTRACTOR
COORD.	COORDINATE
CORR.	CORRIDOR
CPU	CENTRAL PROCESSING UNIT
Cu	COPPER
CU	CONDENSING UNIT
CU. FT.	CUBIC FEET
CW	CLOCKWISE
D	DEPTH
DEM	DEMAND
DIA.	DIAMETER
DISC.	DISCONNECT SWITCH
DIV.	DIVISION
DN.	DOWN
DPST	DOUBLE POLE SINGLE THROW
DRAW., DWG.	DRAWING
E.C.	ELECTRICAL CONTRACTOR
E.F., EF	EXHAUST FAN
E.H.	ELECTRIC HEATER
E.P.R.	ETHYLENE PROPYLENE RUBBER
E.W.	EACH WAY
EA.	EACH
EHT	ELECTRICAL HEAT TRACING CABLE
ELEC. CLO.	ELECTRICAL CLOSET
ELEC./ELECT.	ELECTRIC
ELEV./EL.	ELEVATION/ELEVATOR
EM	EMERGENCY POWER PACK COMPLETE
EMT	ELECTRICAL METALLIC TUBING
ENCL.	ENCLOSURE
ENT.	ENTRANCE
EMERG.	EMERGENCY
EQUIP.	EQUIPMENT
EST.	ESTIMATE
EX./E	EXISTING
EXT.	EXTERNAL/EXTERIOR
E.O.	ELECTRICALLY OPERATED
F.A.	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
F.E.	FIRE EXTINGUISHER
F.O.	FIBER OPTIC
FDN.	FOUNDATION
FIG.	FIGURE
FIN.	FINISH/FINISHED
FIXT.	FIXTURE
FL.	FLOOR
FLA	FULL LOAD AMPERES
FLEX.	FLEXIBLE
F.L.M.C.	FLEXIBLE LIQUIDTIGHT METALLIC CONDUIT
FLUOR.	FLUORESCENT
FC	FOOTCANDLE
FT	FAULT TRIP
FT.	FEET
FU.	FUSE/FUSED
G.C.	GENERAL CONTRACTOR
GA.	GAGE/GAUGE
GALV.	GALVANIZED
GEN.	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRD, GND., G	GROUND
GRS, G.R.S.	GALVANIZED RIGID STEEL
GTD	GENERATOR TRANSFER DEVICE
H.I.D.	HIGH INTENSITY DISCHARGE
H.O.A.	HAND OFF AUTO
H.P.S.	HIGH PRESSURE SODIUM
HEX.	HEXAGON
HH	HANDHOLE
HORIZ.	HORIZONTAL
H.P./HP.	HORSEPOWER
HPF	HIGH POWER FACTOR
HT.	HEIGHT
HWH	HOT WATER HEATER
HZ.	HERTZ
IMC	INTERMEDIATE CONDUIT
INC.	INCANDESCENT
INSUL.	INSULATION/INSULATED
ISOL.	ISOLATED
ISP	INTERNET SERVICE PROVIDER
IS	INTRINSICALLY SAFE
IT	INFORMATION TECHNOLOGY
IAP	INTRUSION ALARM PANEL
IAKP	INTRUSION ALARM KEYPAD
JB, J	JUNCTION BOX
KAIC	THOUSAND AMPERES INTERRUPTING CAPACITY
KVAR	KILOVAR
KO	KNOCKOUT
kW	KILOWATT
kCMIL	THOUSAND CIRCULAR MILS
KWH	KILOWATT HOUR
KHZ	KILOHERTZ
kV	KILOVOLT
kVA	KILOVOLT–AMPERE
LG.	LENGTH
LF.	LINEAR FEET
LG.	LONG
LRA	LOCKED ROTOR AMPERES
LT.	LIGHT
LTG.	LIGHTING
M.L.O.	MAIN LUGS ONLY
M/C	MULTI–CONDUCTOR
MANUF., MFR.	MANUFACTURER
MAX.	MAXIMUM
M.B./MB	MAIN BREAKER
M.C.B./MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILLS
MDS	MAIN DISTRIBUTION SWITCHBOARD
MDP	MAIN DISTRIBUTION PANEL
MECH.	MECHANICAL
MET.	METALLIC
MF	MAINTENANCE FACTOR
MG	MOTOR GENERATOR
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MTD.	MOUNTED
MTG.	MOUNTING
N	NEUTRAL
NC	NORMAL CLOSED
NEC/N.E.C.	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER ASSOC.
N.I.C./NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
No., #	NUMBER
N.T.S./NTS	NOT TO SCALE
NL	NIGHT LIGHT CIRCUIT
N.F.	NON FUSED
P	POLE
PC	PHOTOCELL
P.I.L.C.	PAPER INSULATED LEAD COVERED
PB, P	PULL BOX, BREAKER OR SWITCH POLE
PNL.	PANELBOARD
PORC.	PORCELAIN
PRI.	PRIMARY
POE	POWER OVER ETHERNET
PTD.	PAINTED
PVC	POLYVINYLCHLORIDE
R	RADIUS
RAP	REMOTE ANNUNCIATOR PANEL
R.C.SW.	REMOTE CONTROL SWITCH
REBAR.	REINFORCING BAR
REC.	RECESSED, RECEPTACLE
RECEPT.	RECEPTACLES
REQ'D	REQUIRED
REV.	REVISE/REVISION
RF	RADIO FREQUENCY
RGA	REMOTE GENERATOR ANNUNCIATOR
RGS	RIGID GALVANIZED STEEL CONDUIT
RM.	ROOM
RT	ROOFTOP
S.F.	SQUARE FEET
S.S.	STAINLESS STEEL
SEC.	SECONDARY
SECT.	SECTION
SEP.	SEPARATE
SERV.	SERVICE
SHT.	SHEET
SIG.	SIGNAL
SK.	SKETCH
SN	SOLID NEUTRAL
SPECS.	SPECIFICATIONS
SPD	SURGE PROTECTIVE DEVICE
SQ.	SQUARE
SSRV	SOLID STATE REDUCED VOLTAGE STARTER
STA.	STATION
SURF.	SURFACE
SUSP.	SUSPENDED
SW	SWITCH
SWBD.	SWITCHBOARD
SYM.	SYMMETRICAL
T.C./TC	TIME CLOCK
TEL.	TELEPHONE
THRU	THROUGH
T.O.S.	TOP OF SLAB (CONCRETE)
TP	TWISTED PAIR
TRANS./XFMR	TRANSFORMER
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
UH	UNIT HEATER
UL	UNDERWRITING LABORATORIES
UPS	UNINTERRUPTIBLE POWER SOURCE
V	VOLTAGE, VOLTS
VD	VOLTAGE DROP
VERT.	VERTICAL
V.I.F./VIF	VERIFY IN FIELD
VS.	VERSUS
W	WIRE
W.I.	WROUGHT IRON
W/	WITH
W/O	WITHOUT
WD.	WIDE
WP	WEATHER PROOF
XLPE	CROSSLINKED POLYETHYLENE

STANDARD MOUNTING HEIGHTS

MOUNTING HEIGHTS FOR EQUIPMENT SHALL BE AS LISTED BELOW UNLESS OTHERWISE SPECIFICALLY LABELED. (UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE TO THE CENTERLINE OF BOXES.)

SWITCHES	3'–8" A.F.F.
TELEPHONE – WALL TYPE	3'–8" A.F.F.
TELEPHONE – DESK TYPE	1'–6" A.F.F.
RECEPTACLE – GENERAL OFFICE	1'–6" A.F.F.
RECEPTACLE – MECHANICAL ROOMS	3'–0" A.F.F.
FIRE ALARM GONG OR SPEAKER	6'–8" TO BOTTOM OF GONG OR SPEAKER
FIRE ALARM PULL STATION	3'–8" A.F.F. TO CENTER OF PULL
FIRE ALARM STROBE LIGHT	6'–8" A.F.F. TO BOTTOM OF STROBE
MOTION SENSOR	6'–5" A.F.F.
PANELBOARDS	6'–0" TO TOP OF CIRCUIT BREAKER MAX.
EXIT LIGHT	ABOVE DOORS (MIN. 7'–6" A.F.F. CLEAR)
KEY PAD (REMOTE)	3'–8" A.F.F.
DATA OUTLET	1'–6" A.F.F.
VOLUME CONTROL/CALL SWITCH	3'–8" A.F.F.
TIMER (NON–ADA)	4'–6" A.F.F.

WIRE & CONDUIT SIZING SCHEDULE

WIRE SIZE (AWG/KCMIL)				NO. OF WIRES & CONDUIT SIZE IN INCHES		
CKT. TYPE	CONDUCTOR & NEUTRAL	EQUIPMENT GROUND	SUPPLY SIDE BONDING JUMPER	A 2W+G	B 3W+G	C 4W+G
1	14	14	8	3/4	3/4	3/4
2	12	12	8	3/4	3/4	3/4
3	10	10	8	3/4	3/4	3/4
4	8	10	8	3/4	3/4	3/4
5	6	10	8	3/4	1	1
6	4	10	8	1	1–1/4	1–1/4
7	4	8	8	1	1–1/4	1–1/4
8	3	8	8	1–1/4	1–1/4	1–1/4
9	2	8	8	1–1/4	1–1/4	1–1/2
10	1	6	6	1–1/4	1–1/2	2
11	1	6	6	1–1/4	1–1/2	2
12	1/0	6	6	1–1/2	2	2
13	2/0	6	4	2	2	2
14	3/0	6	4	2	2	2–1/2
15	4/0	2	2	2	2–1/2	2–1/2
16	250 KCMIL	2	2	2	2–1/2	2–1/2
17	300 KCMIL	2	2	2	2–1/2	2–1/2
18	350 KCMIL	2	2	2	2–1/2	3
19	400 KCMIL	1/0	1/0	2	2–1/2	3
20	500 KCMIL	1/0	1/0	2–1/2	3	3–1/2
21	(2) 4/0	(2) 2	(2) 1/0	–––	(2) 2	(2) 2–1/2
22	(2) 250 KCMIL	(2) 2	(2) 1/0	–––	(2) 2	(2) 2–1/2
23	(2) 350 KCMIL	(2) 1	(2) 2/0	–––	(2) 2–1/2	(2) 3
24	(2) 500 KCMIL	(2) 1/0	(2) 2/0	–––	(2) 3	(2) 3–1/2
25	(3) 300 KCMIL	(3) 1/0	(3) 2/0	–––	(3) 2–1/2	(3) 3
26	(3) 400 KCMIL	(3) 2/0	(3) 2/0	–––	(3) 3	(3) 3
27	(3) 500 KCMIL	(3) 3/0	(3) 2/0	–––	(3) 3	(3) 3–1/2
28	(4) 350 KCMIL	(4) 3/0	(4) 2/0	–––	(4) 2–1/2	(4) 3
29	(4) 500 KCMIL	(4) 4/0	(4) 2/0	–––	(4) 3	(4) 3–1/2
30	(5) 400 KCMIL	(5) 4/0	(5) 2/0	–––	(5) 3	(5) 3
31	(5) 500 KCMIL	(5) 250	(5) 2/0	–––	(5) 3	(5) 3–1/2
32	(6) 400 KCMIL	(6) 250	(6) 2/0	–––	(6) 3	(6) 3–1/2
33	(7) 500 KCMIL	(7) 350	(7) 2/0	–––	(7) 3	(7) 3–1/2
34	(8) 500 KCMIL	(8) 400	(8) 2/0	–––	(8) 3	(8) 3–1/2

THE ABOVE SCHEDULE IS BASED ON 600 VOLT WIRE TYPE 90°C THHN/THWN/XHHW. THE FOLLOWING IS A SAMPLE OF WIRE AND CONDUIT READOUT FROM ABOVE SCHEDULE:

2A = (2)#12AWG, (1)#12GRD IN 3/4" C.

GENERAL NOTES

1. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED AND GROUNDED IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, THE SPECIFICATIONS FOR GROUNDING, THE CONTRACT DRAWINGS, FEDERAL, STATE AND LOCAL CODES AND TO THE SATISFACTION OF THE ENGINEER. ALL GROUNDING CONNECTIONS TO BE MADE BY THE CADWELD PROCESS OR EQUAL.
2. ALL CONDUITS AND ELECTRICAL EQUIPMENT ARE SHOWN DIAGRAMMATICALLY AND MAY BE ALTERED TO SUIT FIELD CONDITIONS PENDING ENGINEER'S APPROVAL.
3. ALL PLANS ELEVATIONS AND CLEARANCES SHALL BE CHECKED IN THE FIELD PRIOR TO INSTALLATION TO AVOID ALL OBSTRUCTIONS.
4. ALL JUNCTION BOXES SHALL BE OF SUFFICIENT SIZE TO PROVIDE FREE SPACE FOR ALL CONDUCTORS ENCLOSED IN THE BOX AND SHALL BE SIZED WITH THE LATEST N.E.C. ARTICLE 314.
5. ALL DIMENSIONS ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
6. CONTRACTOR SHALL CHECK FOR OBSTRUCTIONS AND CLEAN OUT ALL CONDUITS PRIOR TO PULLING IN CABLES.
7. PHASING OF ALL ELECTRICAL CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR AND SHALL BE MADE IN ACCORDANCE WITH THE LOCAL UTILITY COMPANY REQUIREMENTS.
8. ALL HOLES THROUGH STRUCTURE TO ACCOMMODATE ELECTRICAL CONDUITS SHALL BE CORE DRILLED AND SEALED WITH NON–SHRINK GROUTING COMPOUND. WHERE RACEWAYS PASS THROUGH FLOORS AND FIRE RATED WALLS AND/OR PARTITIONS, CONTRACTOR SHALL FURNISH UL RATED FIREPROOFING MATERIAL TO BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND RESTORE ORIGINAL FIRE RATING.
9. THE CONTRACTOR SHALL FURNISH STRUCTURAL SUPPORT FOR ALL EQUIPMENT. FOR SURFACE MOUNTED EQUIPMENT, SUCH AS PANELBOARDS, STARTERS, SAFETY SWITCHES AND THE LIKE, PROVIDE "UNISTRUT" WITH CORROSION RESISTANT MOUNTING HARDWARE.
10. NO CONDUIT SMALLER THAN 3/4" SHALL BE USED UNLESS OTHERWISE SPECIFIED.
11. ALL JOINTS BETWEEN DISSIMILAR METALS SHALL BE COATED WITH A LITHIUM BASED THREAD LUBRICANT.
12. RACEWAYS SHALL BE PROVIDED WITH AN APPROVED EXPANSION–DEFLECTION FITTINGS WHERE CROSSING BUILDING CONSTRUCTION EXPANSION JOINTS AND WHERE NECESSARY TO COMPENSATE FOR THERMAL EXPANSION AND CONTRACTION.
13. FURNISH AND INSTALL CONCRETE PADS FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT.
14. PRIOR TO SUBMITTING PROPOSALS, BIDDERS ARE INSTRUCTED TO REVIEW PLANS AND SPECIFICATIONS OF ALL CONCURRENT WORK TO DETERMINE QUANTITIES OF LABOR AND MATERIAL NECESSARY TO INSTALL, CONNECT, AND TEST MATERIAL FURNISHED UNDER THESE SPECIFICATIONS. ANY ADDITIONAL LABOR AND MATERIAL REQUIRED DUE TO FAILURE OF THE CONTRACTOR TO FOLLOW THESE INSTRUCTIONS, SHALL BE FURNISHED AT NO ADDITIONAL COST TO THE OWNER.
15. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER CONTRACTORS EMPLOYED ON THIS PROJECT PRIOR TO ROUGHING IN. THE CONTRACTOR SHALL OBTAIN AND REVIEW APPROVED SHOP DRAWINGS OF ALL OTHER TRADES AFFECTING ALL ELECTRICAL WORK.
16. THE CONTRACTOR SHALL CHECK AND TORQUE TIGHTEN ALL CONNECTIONS, WHETHER FACTORY MADE OR MADE UNDER THIS CONTRACT, USING ACCURATELY CALIBRATED TOOLS. TORQUE SETTINGS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFIC RECOMMENDATIONS.
17. INSTALL AN 1/8" INCH POLY PROPYLENE (PULL–IN–ROPE) IN ALL SPARE CONDUITS.
18. INSULATED COPPER CONDUCTORS FOR EQUIPMENT GROUNDING SHALL BE ROUTED WITH ALL POWER CONDUCTORS.
19. CONDUCTORS USED FOR CONTROL WIRING SHALL BE AT LEAST NO. 14 AWG AND ALL POWER CONDUCTORS SHALL BE AT LEAST NO. 12 AWG UNLESS OTHERWISE SPECIFIED.
20. CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFETY EQUIPMENT AND EXERCISE PRECAUTIONARY PROCEDURES WHEN WORKING WITH OR NEAR ENERGIZED EQUIPMENT.
21. CONTRACTOR SHALL REMOVE ALL OBSOLETE EQUIPMENT, CONDUITS AND WIRING, EXCEPT WHERE OTHERWISE NOTED.
22. INTERRUPTION OF SERVICE SHALL BE SCHEDULED AND COORDINATED WITH THE OWNER AND HELD TO MINIMUM IN ORDER TO MAINTAIN THE PROPER OPERATION OF THE FACILITY.
23. WHEN CONDUIT OR CABLE RUNS FOR POWER AND LIGHTING EXCEED 60 FT. FOR 120 VOLT OR 120 FT. FOR 277 VOLT TO CENTER OF LOAD, NO. 10 AWG WIRE OR LARGER SHALL BE USED AS REQUIRED FOR A MAXIMUM 3% VOLTAGE DROP AT FULL CIRCUIT CAPACITY.
24. HEAVIER LINE WEIGHT SYMBOLS AND TEXT INDICATE NEW WORK UNLESS OTHERWISE NOTED. LIGHT LINE WEIGHT SYMBOLS AND ITALICIZED TEXT INDICATE EXISTING CONDITIONS TO REMAIN UNLESS OTHERWISE NOTED.
25. CONTRACTOR SHALL SALVAGE ALL DEMOLISHED EQUIPMENT AND VERIFY WITH OWNER PRIOR TO DISPOSING OF THE DEMOLISHED EQUIPMENT.
26. CONTRACTOR SHALL COORDINATE THE REMOVAL AND INSTALLATION OF ALL DEVICES ASSOCIATED WITH SURVEILLANCE, COMMUNICATIONS, AND CONTROL OF THE FACILITY WITH THE OWNER.
27. THE CONTRACTOR SHALL PROVIDE A THOROUGH EVALUATION OF THE EXISTING PROJECT SITE AND BUILDING CONDITIONS. WHERE EXISTING CONDITIONS WARRANT CHANGES TO ACCOMMODATE THE NEW WORK PLANNED, THE CONTRACTOR SHALL PROVIDE THE REQUIRED WORK AND MATERIALS TO INCLUDE ANY AND ALL ALTERATIONS, DEMOLITION, PATCHING, AND REPAIRING OF THE EXISTING CONDITIONS TO ACCOMMODATE THE NEW CONSTRUCTION WORK AS A COMPLETE INSTALLATION.

ISSUED FOR BID
DATE: 01-10-2025

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SHEET CONTENTS:

ELECTRICAL COVER SHEET

PROJECT TITLE:

RENOVATION FOR MAINTENANCE BUILDING
BURLINGTON COUNTY
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:

XXX

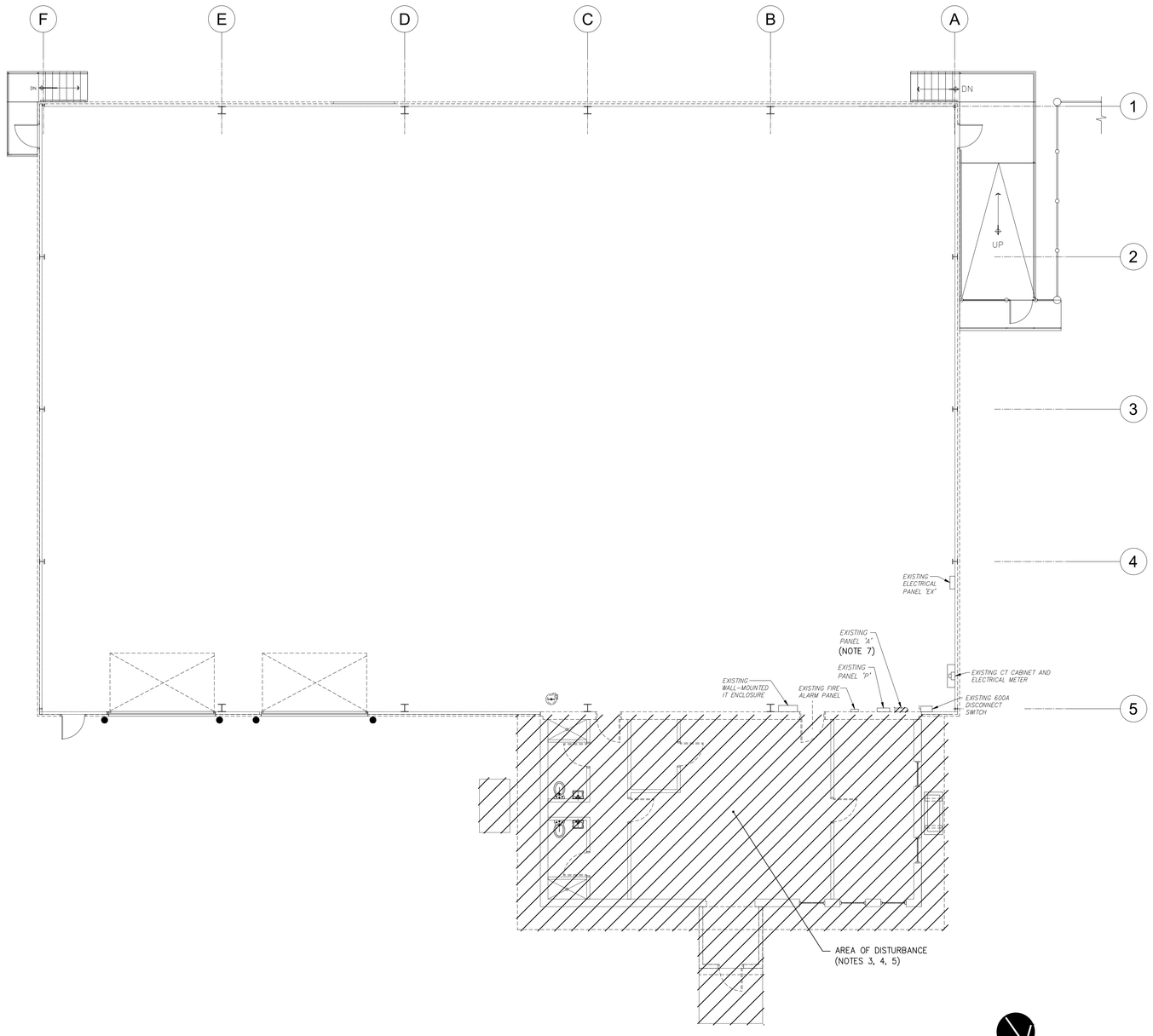
DATE	REVISIONS	BY	CHKD

Date	10.08.24
Scale	AS SHOWN
Drawn by	C.P.
Checked by	
Job No.	2241869

Drawing No.

E-1.0

F:\Projects\Burlington County\MASTER\2019\Sheets\E-1.0 Electrical Cover Sheet.dwg - 1/10/2025 8:20:20 AM



1 ELECTRICAL DEMOLITION FLOOR PLAN

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

DEMOLITION NOTES:

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING E-1.0 APPLY TO THIS DRAWING.
2. THIS DEMOLITION PLAN HAS BEEN PROVIDED AS A GUIDE. HOWEVER, ALL DEMOLITION REQUIRED TO SUCCESSFULLY COMPLETE THIS PROJECT SHALL BE INCLUDED IN THE SCOPE OF WORK. IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS TO SECURE A COMPLETELY INTERCONNECTED AND FUNCTIONING SYSTEM AND IF ANY WORKMANSHIP OR MATERIALS ARE REQUIRED WHICH ARE OBVIOUSLY NECESSARY TO CARRY OUT THE FULL INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS OR TO BE REASONABLY INFERRED THEREFROM, THE COST OF SUCH WORKMANSHIP OR MATERIALS SHALL BE INCLUDED IN THE SCOPE OF WORK.
3. CONTRACTOR SHALL PROVIDE ALL NECESSARY CONSTRUCTION, DEMOLITION AND DISRUPTION TEMPORARY POWER BY MEANS OF PORTABLE GENERATOR(S) TO MAINTAIN ADEQUATE ELECTRICAL POWER REQUIREMENTS FOR THE DURATION OF DEMOLITION AND RENOVATION FOR NEW OFFICE SPACE.
4. CONTRACTOR SHALL DEMOLISH ALL EXISTING ELECTRICAL INFRASTRUCTURE THAT INCLUDE ALL CONDUCTORS, CONDUITS, JUNCTION BOXES, PANELBOARDS, RACEWAYS, ETC. IN ITS ENTIRELY BACK TO SOURCE.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR THE DISCONNECTION AND REMOVAL OF ALL HVAC CONDENSING UNITS, SPLIT SYSTEM UNITS, ETC. DEMOLISH EXISTING WIRING, RACEWAYS, CONTROLS, ETC. BACK TO SOURCE.
6. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING, REPLACING AND RESTORING ANY AREAS OF FLOOR, CEILING AND/OR WALLS DAMAGED AS A RESULT OF NEW WORK. RESTORED, REPAIRED, OR REPLACED AREAS SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THEIR ORIGINAL CONDITION.
7. CONTRACTOR SHALL DISCONNECT AND SALVAGE EXISTING CIRCUITS IN EXISTING PANEL 'A'. CONTRACTOR SHALL DEMOLISH EXISTING PANEL 'A' AND PREP FOR NEW.

ISSUED FOR BID

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PROJECT TITLE:

RENOVATION FOR MAINTENANCE BUILDING
BURLINGTON COUNTY
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:

XXX

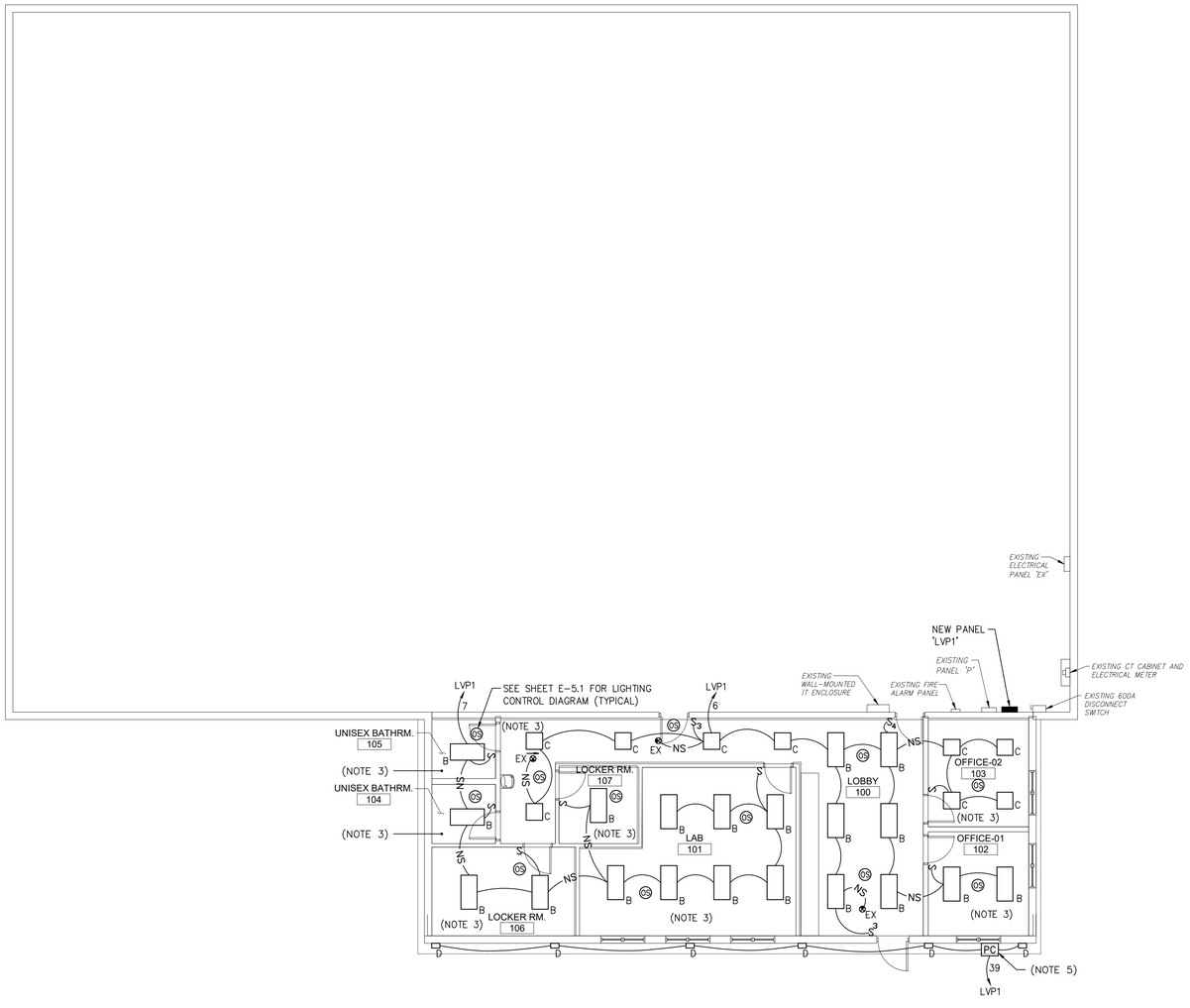
DATE	REVISIONS	BY	CHKD

Date	10.08.24
Scale	AS SHOWN
Drawn by	C.P.
Checked by	
Job No.	2241869

Drawing No.

E-1.1

P:\Projects\Burlington County\MP0800\01\Sheets\E-1.1 Electrical Demolition Floor Plan.dwg 11/05/2025 8:26:19 AM



1 ELECTRICAL LIGHTING FLOOR PLAN

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

NOTES:

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING E-1.0 APPLY TO THIS DRAWING.
2. THIS DRAWING IS DIAGRAMMATIC, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM EXISTING SITE CONDITIONS AND INSTALLATION CLEARANCES PRIOR TO SHOP DRAWING SUBMISSIONS AND INSTALLATION. SHOULD THE CONTRACTOR DETERMINE THAT THE INSTALLATION OF ANY ELECTRICAL COMPONENT IS RESTRICTED OR NOT ABLE TO BE INSTALLED IN THE SUGGESTED LOCATION, THE CONTRACTOR SHALL READDRESS THE INSTALLATION ACCORDINGLY AND IN COMPLIANCE WITH THE MOST RECENTLY ADOPTED NATIONAL ELECTRICAL CODE APPROVED BY THE AUTHORITY HAVING JURISDICTION AT NO ADDITIONAL COST.
3. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWING A-601 REFLECTED CEILING PLAN FOR LIGHTING FIXTURE SCHEDULE AND LIGHTING FIXTURE LOCATIONS.
4. PROVIDE 0-10V DIMMING CONTROL WIRING AS REQUIRED.
5. PROVIDE SURFACE MOUNTED PHOTOCELL FOR EXTERIOR LIGHTING FIXTURES.

ISSUED FOR BID
DATE: 01-10-2025

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REMINGTON & VERNICK **ENGINEERS**
2059 SPRINGDALE ROAD,
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SHEET CONTENTS:

ELECTRICAL LIGHTING FLOOR PLAN

PROJECT TITLE:

RENOVATION FOR MAINTENANCE BUILDING
BURLINGTON COUNTY
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:

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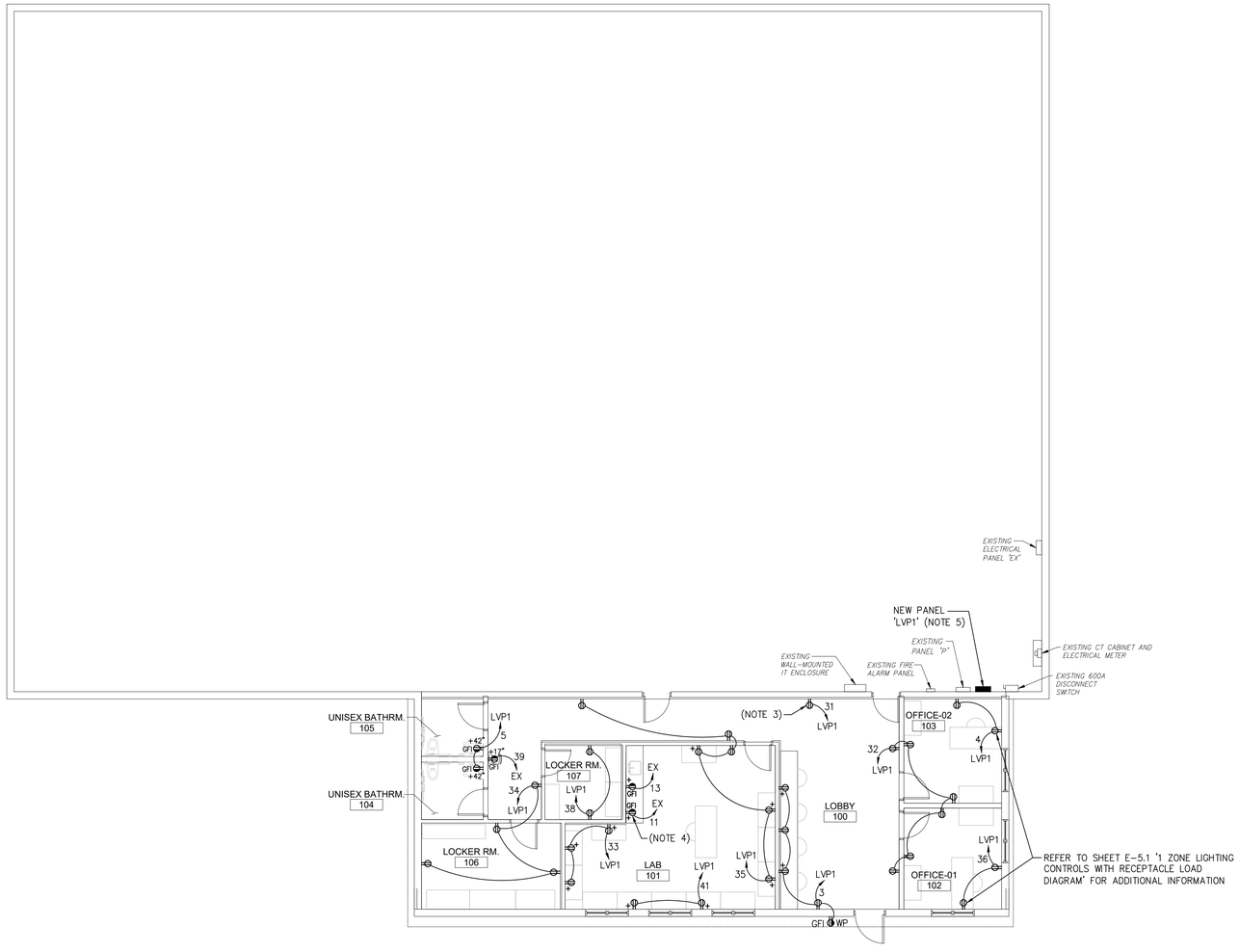
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Checked by	
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Drawing No.

E-2.1

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1 ELECTRICAL POWER FLOOR PLAN

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

NOTES:

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING E-1.0 APPLY TO THIS DRAWING.
2. THIS DRAWING IS DIAGRAMMATIC, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM EXISTING SITE CONDITIONS AND INSTALLATION CLEARANCES PRIOR TO SHOP DRAWING SUBMISSIONS AND INSTALLATION. SHOULD THE CONTRACTOR DETERMINE THAT THE INSTALLATION OF ANY ELECTRICAL COMPONENT IS RESTRICTED OR NOT ABLE TO BE INSTALLED IN THE SUGGESTED LOCATION, THE CONTRACTOR SHALL READDRESS THE INSTALLATION ACCORDINGLY AND IN COMPLIANCE WITH THE MOST RECENTLY ADOPTED NATIONAL ELECTRICAL CODE APPROVED BY THE AUTHORITY HAVING JURISDICTION AT NO ADDITIONAL COST.
3. COORDINATE EXACT LOCATION OF PRINTER PRIOR TO ROUGH-IN INSTALLATION OF DEDICATED DUPLEX RECEPTACLE WITH OWNER.
4. COORDINATE EXACT LOCATION OF MICROWAVE PRIOR TO ROUGH-IN INSTALLATION OF DEDICATED GFI DUPLEX RECEPTACLE WITH OWNER.
5. CONTRACTOR SHALL RECONNECT EXISTING SALVAGED CIRCUIT WIRING TO NEW PANEL 'LVP1'. CONTRACTOR SHALL EXTEND/PROVIDE ALL NECESSARY HARDWARE, RACEWAYS, WIRING, AND ALL ELECTRICAL DEVICES FOR A COMPLETE INSTALLATION.

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DATE: 01-10-2025

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SHEET CONTENTS:

PROJECT TITLE:

RENOVATION FOR
MAINTENANCE BUILDING
BURLINGTON COUNTY
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:
XXX

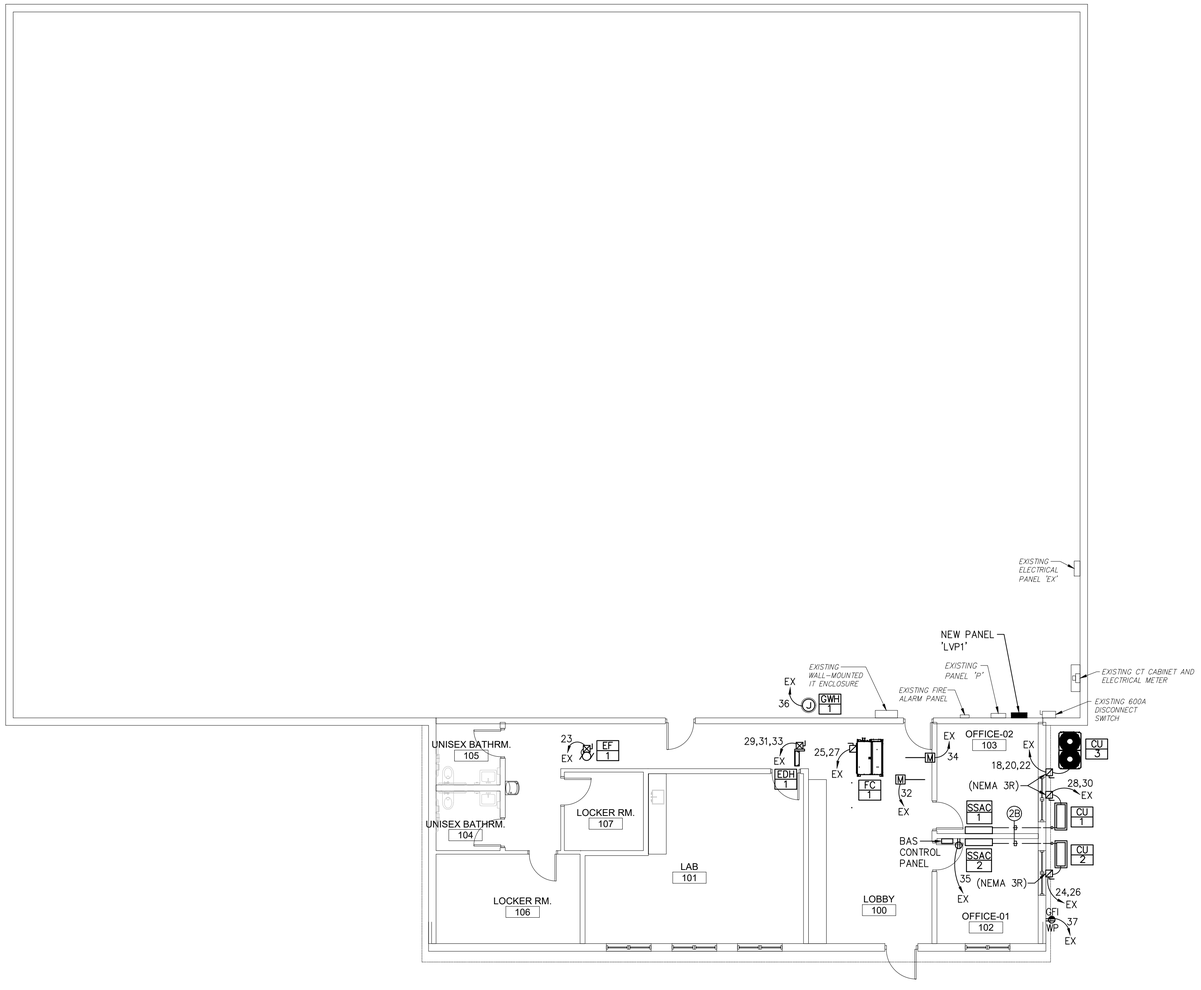
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Date	10.08.24
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Drawn by	C.P.
Checked by	
Job No.	2241869

Drawing No.

E-3.1

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1 ELECTRICAL HVAC POWER FLOOR PLAN

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

NOTES:

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING E-1.0 APPLY TO THIS DRAWING.
2. THIS DRAWING IS DIAGRAMMATIC, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM EXISTING SITE CONDITIONS AND INSTALLATION CLEARANCES PRIOR TO SHOP DRAWING SUBMISSIONS AND INSTALLATION. SHOULD THE CONTRACTOR DETERMINE THAT THE INSTALLATION OF ANY ELECTRICAL COMPONENT IS RESTRICTED OR NOT ABLE TO BE INSTALLED IN THE SUGGESTED LOCATION, THE CONTRACTOR SHALL READDRESS THE INSTALLATION ACCORDINGLY AND IN COMPLIANCE WITH THE MOST RECENTLY ADOPTED NATIONAL ELECTRICAL CODE APPROVED BY THE AUTHORITY HAVING JURISDICTION AT NO ADDITIONAL COST.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH HVAC CONTROLS CONTRACTOR FOR ALL LOW-VOLTAGE WIRING REQUIREMENTS.

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SHEET CONTENTS:

ELECTRICAL HVAC POWER FLOOR PLAN

PROJECT TITLE:

RENOVATION FOR MAINTENANCE BUILDING
BURLINGTON COUNTY
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

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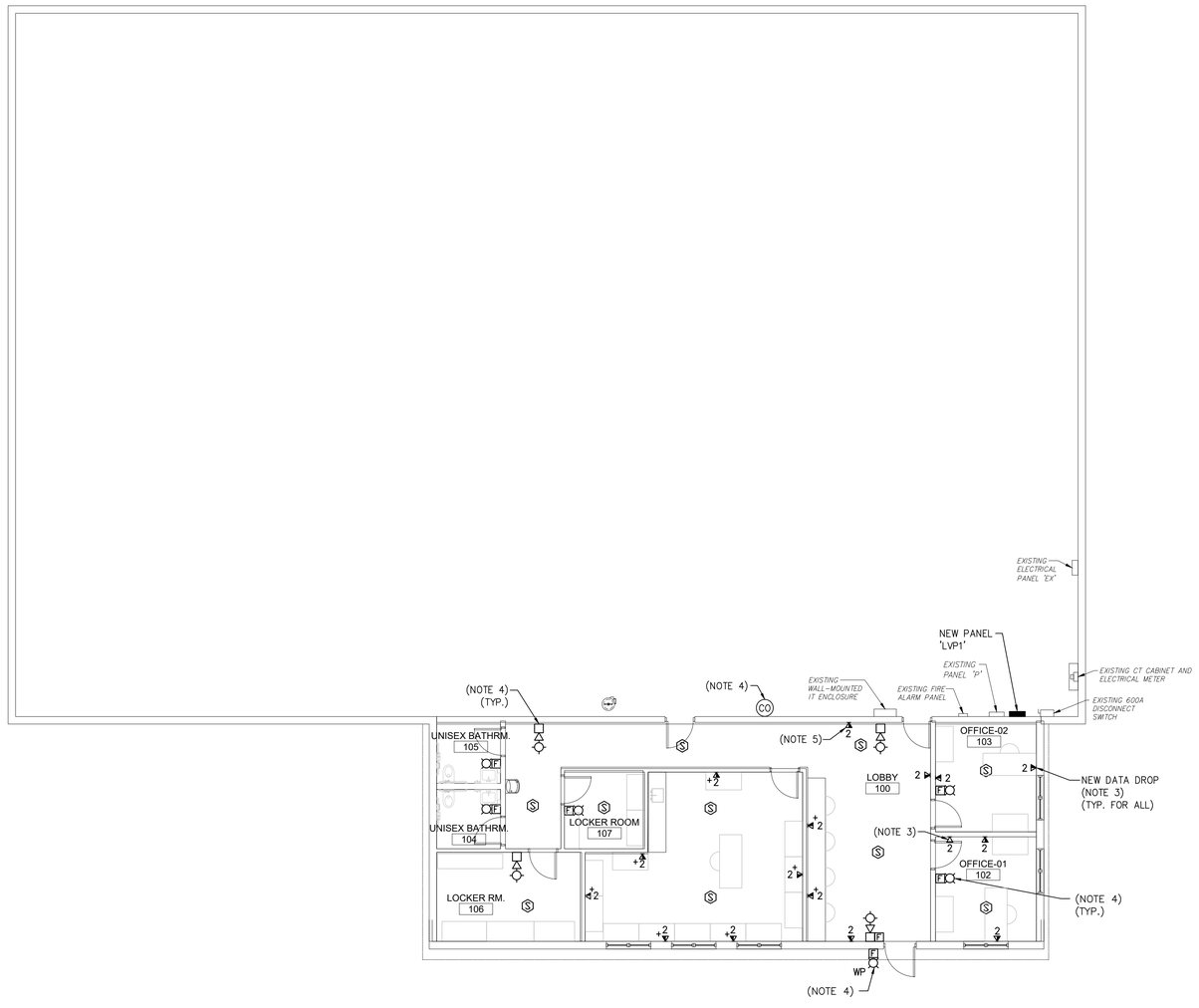
DATE	REVISIONS	BY	CHKD

Date	10.08.24
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Drawn by	C.P.
Checked by	
Job No.	2241869

Drawing No.

E-3.2

P:\Projects\Burlington County\#2241869\10 Sheets\E-3.2 Electrical HVAC Power Floor Plan.dwg 1/10/2025 8:21:10 AM



1 ELECTRICAL SYSTEMS FLOOR PLAN

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

NOTES:

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING E-1.0 APPLY TO THIS DRAWING.
2. THIS DRAWING IS DIAGRAMMATIC, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM EXISTING SITE CONDITIONS AND INSTALLATION CLEARANCES PRIOR TO SHOP DRAWING SUBMISSIONS AND INSTALLATION. SHOULD THE CONTRACTOR DETERMINE THAT THE INSTALLATION OF ANY ELECTRICAL COMPONENT IS RESTRICTED OR NOT ABLE TO BE INSTALLED IN THE SUGGESTED LOCATION, THE CONTRACTOR SHALL READDRESS THE INSTALLATION ACCORDINGLY AND IN COMPLIANCE WITH THE MOST RECENTLY ADOPTED NATIONAL ELECTRICAL CODE APPROVED BY THE AUTHORITY HAVING JURISDICTION AT NO ADDITIONAL COST.
3. CONTRACTOR SHALL ROUTE NEW CAT6 CABLING TO EXISTING WALL-MOUNTED IT ENCLOSURE LOCATED IN MAINTENANCE GARAGE. CONTRACTOR SHALL PROVIDE ALL NECESSARY HARDWARE FOR A COMPLETE INSTALLATION.
4. PROVIDE ALL WIRING, CONDUIT, PROGRAMMING, TESTING, EXPANSION CARDS, SLAVE FIRE ALARM CONTROL PANELS, ETC. TO CONNECT NEW FIRE ALARM DEVICES INTO THE EXISTING FIRE ALARM SYSTEM IN ACCORDANCE WITH NFPA 72. FIELD VERIFY THE LOCATION, BRAND, CATALOG NUMBER OF ALL EXISTING FIRE ALARM PANELS, CONTROLLERS, DEVICES, ETC. AND INCLUDE ALL COSTS FOR THE CONNECTION OF THE NEW FIRE ALARM DEVICES IN THE CONTRACTOR'S BID.
5. COORDINATE EXACT LOCATION OF PRINTER PRIOR TO ROUGH-IN INSTALLATION OF DATA OUTLET WITH OWNER.

ISSUED FOR BID
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SHEET CONTENTS:

ELECTRICAL SYSTEMS FLOOR PLAN

PROJECT TITLE:

RENOVATION FOR MAINTENANCE BUILDING
BURLINGTON COUNTY
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:

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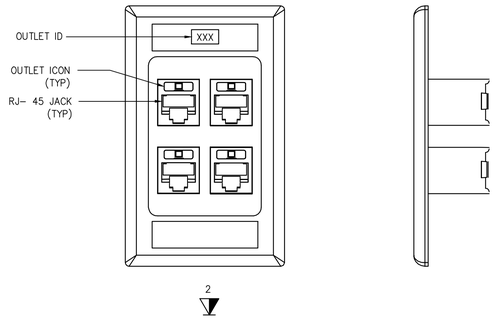
DATE	REVISIONS	BY	CHKD

Date	10.08.24
Scale	AS SHOWN
Drawn by	C.P.
Checked by	
Job No.	2241869

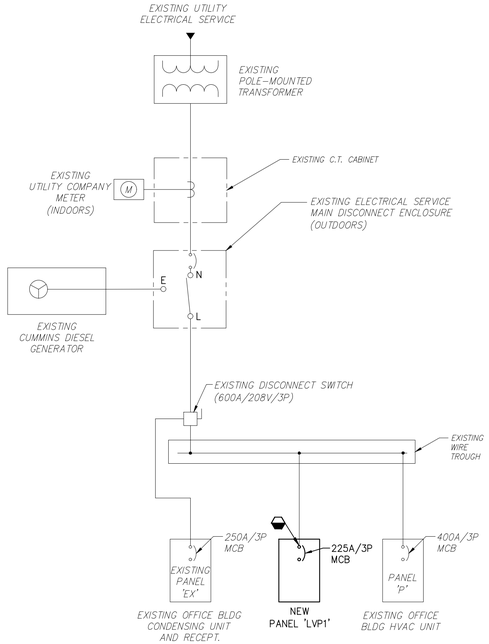
Drawing No.

E-4.1

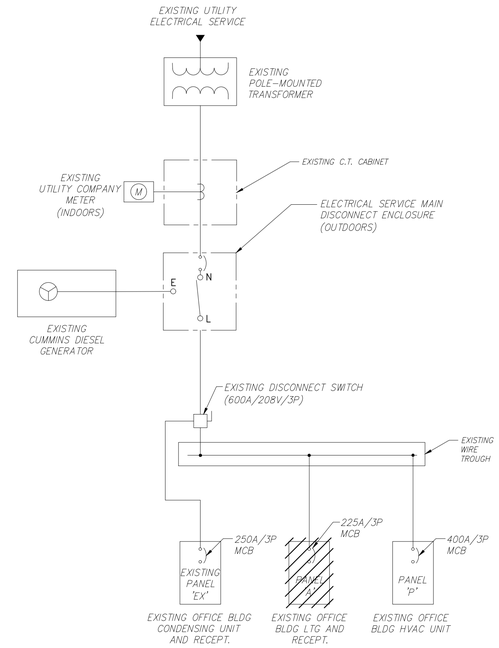
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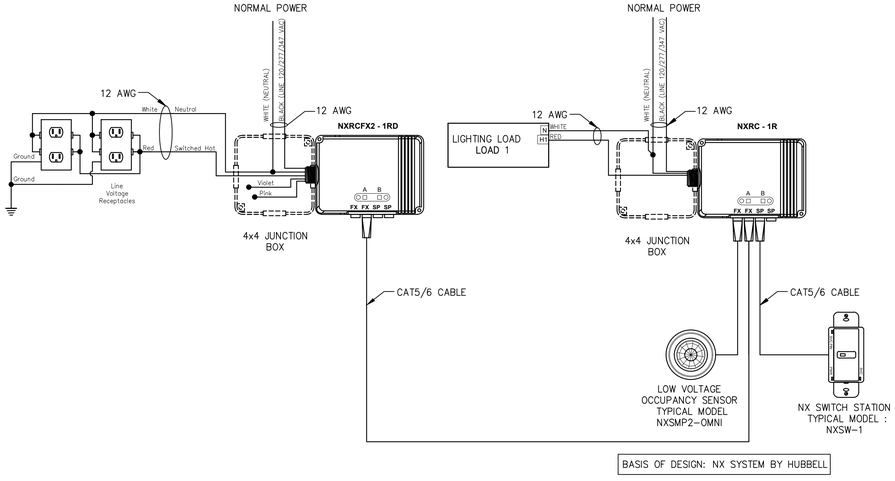
3 2-PORT DATA OUTLET
N.T.S



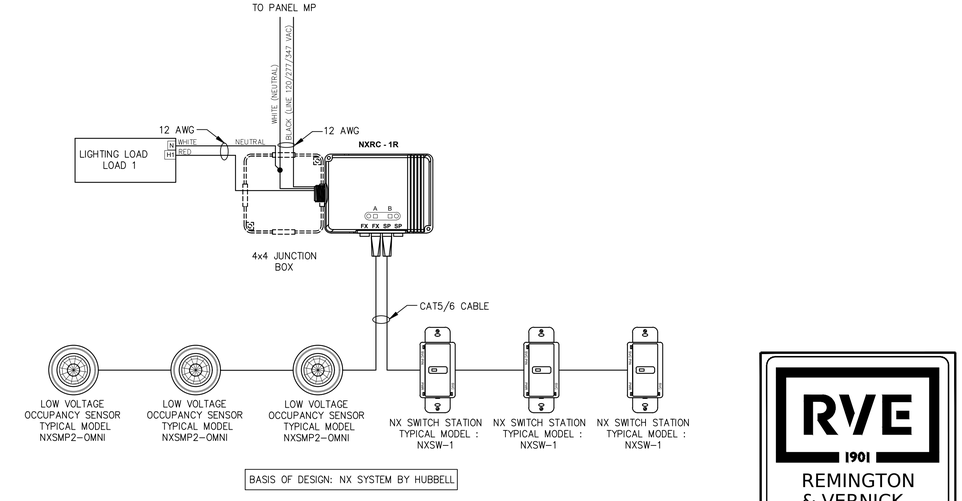
2 ELECTRICAL PROPOSED SINGLE LINE DIAGRAM
N.T.S



1 ELECTRICAL DEMOLITION SINGLE LINE DIAGRAM
N.T.S



5 1 ZONE
LIGHTING CONTROLS WITH RECEPTACLE LOAD DIAGRAM
SCALE: N.T.S.



4 TYPICAL LIGHTING CONTROL DIAGRAM
SCALE: N.T.S.

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SHEET CONTENTS:

ELECTRICAL SINGLE LINE DIAGRAM AND DETAILS

PROJECT TITLE:

RENOVATION FOR MAINTENANCE BUILDING
BURLINGTON COUNTY
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:
XXX

DATE	REVISIONS	BY	CHKD

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Drawn by	C.P.
Checked by	
Job No.	2241869

Drawing No.
E-5.1

P:\Projects\Burlington County\MP\Work\Revit\E-5.1 Electrical Single Line Diagram and Details.rvtg 1/10/2025 8:21:55 AM

EXISTING PANEL 'EX' (SQUARE D CAT# NQ442L2C)

VOLTAGE: 208Y/120V, 3ø, 4W+G | X | MCB 250A / 3P | POLES: 42 | AIC RATING: 10,000
MAIN BUS: 225A | | M.O | MTG: SURFACE | LOCATION: MAINTENANCE GARAGE

CKT	CIRCUIT	BREAKER	BRANCH	DESCRIPTION	kVA PER PHASE			REMARKS	REMARKS	kVA PER PHASE			DESCRIPTION	BRANCH	CIRCUIT BREAKER		CKT
#	TRIP	POLE	CIRCUIT		A	B	C			A	B	C		CIRCUIT	POLE	TRIP	#
1	20	1	EXISTING	REC.	EXIST.					EXIST.			REC.	EXISTING	1	20	2
3	20	1	EXISTING	REC.		EXIST.					EXIST.		REC.	EXISTING	1	20	4
5	20	2	EXISTING	HEAT			EXIST.					EXIST.	HEAT	EXISTING	2	20	6
7					EXIST.					EXIST.							8
9	20	1	EXISTING	FREEZER		EXIST.					EXIST.		HEAT	EXISTING	2	20	10
11	**20**	**1**	**2A**	**MICROWAVE RECEPTACLE**			**1.20**	**LAB 101 (NOTE 1)**				EXIST.					12
13	**20**	**1**	**2A**	**GFI RECEPTACLE**	**0.18**			**LAB 101 (NOTE 1)**		EXIST.			CONDENSING UNIT	EXISTING	2	30	14
15	20	1		SPARE							EXIST.						16
17							EXIST.					**7.56**					18
19	20	3	EXISTING	BATTERY CHARGER	EXIST.				**EXTERIOR**	**7.56**			**CU-3**	**10C**	**3**	**100**	20
21						EXIST.			**(NOTE 1)**		**7.56**						22
23	**15**	**1**	**2A**	**EIF-1**			**0.86**	**LOCKER RM. 107 (NOTE 1)**	**EXTERIOR**			**1.14**	**CU-2**	**2B**	**2**	**15**	24
25	**15**	**2**	**2B**	**FC-1**	**0.50**			**LOBBY 100**	**(NOTE 1)**	**1.14**							26
27						**0.50**		**(NOTE 1)**	**EXTERIOR**		**1.14**		**CU-1**	**2B**	**2**	**15**	28
29							**4.49**		**(NOTE 1)**			**1.14**					30
31	**50**	**3**		**EDH-1**	**4.49**			**(NOTE 1)**	**LOBBY 100 (NOTE 1)**	**0.10**			**MOTORIZED DAMPER**	**2A**	**1**	**20**	32
33						**4.49**			**LOBBY 100 (NOTE 1)**		**0.10**		**MOTORIZED DAMPER**	**2A**	**1**	**20**	34
35	**20**	**1**	**2A**	**BAS CONTROL PANEL**			**0.50**	**OFFICE 102 (NOTE 1)**	**MAIN. GAR. (NOTE 1)**			**0.10**	**GWH-1 (IGNITER)**	**2A**	**1**	**20**	36
37	**20**	**1**	**2A**	**ICE MAKER**	**0.70**			**MAIN. BLDG. (NOTE 1)**					SPACE				38
39	**20**	**1**	**2A**	**ELECTRIC WATER FOUNTAIN**		**0.60**		**CORRIDOR (NOTE 1)**					SPACE				40
41				SPACE									SPACE				42
					5.87	5.59	7.05			8.80	8.80	9.94					

128 TOTAL CONNECTED LOAD (AMPS) — TOTAL CONNECTED LOAD (kVA) 46.05

NOTES: **1. PROVIDE A COMPATIBLE BRANCH CIRCUIT BREAKER.**

NEW PANEL: 'LVP1' (REPLACE EXISTING PANEL 'A' WITH NEW)

VOLTAGE: 208Y/120V, 3ø, 4W+G | X | MCB 225A/3P | POLES: 42 | AIC RATING: 42,000
MAIN BUS: 250A | | M.O | MTG: SURFACE | LOCATION: MAINTENANCE GARAGE

CKT	CIRCUIT	BREAKER	BRANCH	DESCRIPTION	kVA PER PHASE			REMARKS	REMARKS	kVA PER PHASE			DESCRIPTION	BRANCH	CIRCUIT BREAKER		CKT
#	TRIP	POLE	CIRCUIT		A	B	C			A	B	C		CIRCUIT	POLE	TRIP	#
1	20	1	EXISTING	GEN. BATT. CHG.	EXIST.					EXIST.			GEN. RECEP.	EXISTING	1	20	2
3	20	1	2A	GENERAL RECEPTACLES		0.90		LOBBY 100	OFFICE 103		0.36		GENERAL RECEPTACLES	2A	1	20	4
5	20	1	2A	GFI RECEPTACLES			0.36	BATHROOM 104 & 105	OFFICE BLDG.			0.62	GENERAL LIGHTING	2A	1	20	6
7	20	1	2A	GENERAL LIGHTING	0.53			OFFICE BLDG.		EXIST.			TIME CLOCK	EXISTING	1	20	8
9	20	1	EXISTING	SOFFIT LIGHTS		EXIST.					EXIST.		ICE MACHINE	EXISTING	2	15	10
11	30	1	EXISTING	WAREHOUSE LIGHTS			EXIST.					EXIST.					12
13	30	1	EXISTING	WAREHOUSE LIGHTS	EXIST.					EXIST.			WAREHOUSE RECTS.	EXISTING	1	20	14
15	20	1	EXISTING	WHSE. LIGHTS		EXIST.					EXIST.		MICROWAVE / TOASTER	EXISTING	1	20	16
17	30	1	EXISTING	WHSE. LIGHTS			EXIST.					EXIST.	EXISTING LOAD	EXISTING	1	30	18
19	30	1	EXISTING	WHSE. LIGHTS	EXIST.					EXIST.			WHSE RECTS.	EXISTING	1	20	20
21	20	1	EXISTING	EXIT & EMERY LIGHTS		EXIST.					EXIST.		208V RECTS.	EXISTING	2	20	22
23	20	2	EXISTING	LIGHT TIMER			EXIST.					EXIST.					24
25				SALT BENS	EXIST.					EXIST.			GEN. HTR.	EXISTING	1	20	26
27	20	1	EXISTING	DRIVEWAY LIGHTS		EXIST.					EXIST.		PHONE	EXISTING	1	20	28
29	20	1	EXISTING	FIRE ALARM SYSTEM			EXIST.					EXIST.	PIT LIGHT	EXISTING	1	20	30
31	20	1	2A	PRINTER RECEPTACLE	1.20			LOBBY 100	LOBBY 100	1.08			GENERAL RECEPTACLES	2A	1	20	32
33	20	1	2A	LAB RECEPTACLES		0.54		LAB 101	LOCKER RM. 106		0.72		GENERAL RECEPTACLES	2A	1	20	34
35	20	1	2A	LAB RECEPTACLES			1.08	LAB 101	OFFICE 102			0.36	GENERAL RECEPTACLES	2A	1	20	36
37	20	1	2A	GFI SERVICE RECEPTACLE	0.18			EXTERIOR	LOCKER RM. 107	0.36			GENERAL RECEPTACLES	2A	1	20	38
39	20	1	2A	EXTERIOR LIGHTING		0.23		EXTERIOR					SPARE		1	20	40
41	20	1	2A	LAB RECEPTACLES			0.36	LAB 101					SPARE		1	20	42
					1.91	1.67	1.80			1.44	1.08	0.98					

25 TOTAL CONNECTED LOAD (AMPS) — TOTAL CONNECTED LOAD (kVA) 8.88

NOTES:

ISSUED FOR BID
DATE: 01-10-2025

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SHEET CONTENTS:

ELECTRICAL SCHEDULES

PROJECT TITLE:

RENOVATION FOR
MAINTENANCE BUILDING
BURLINGTON COUNTY
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:
XXX

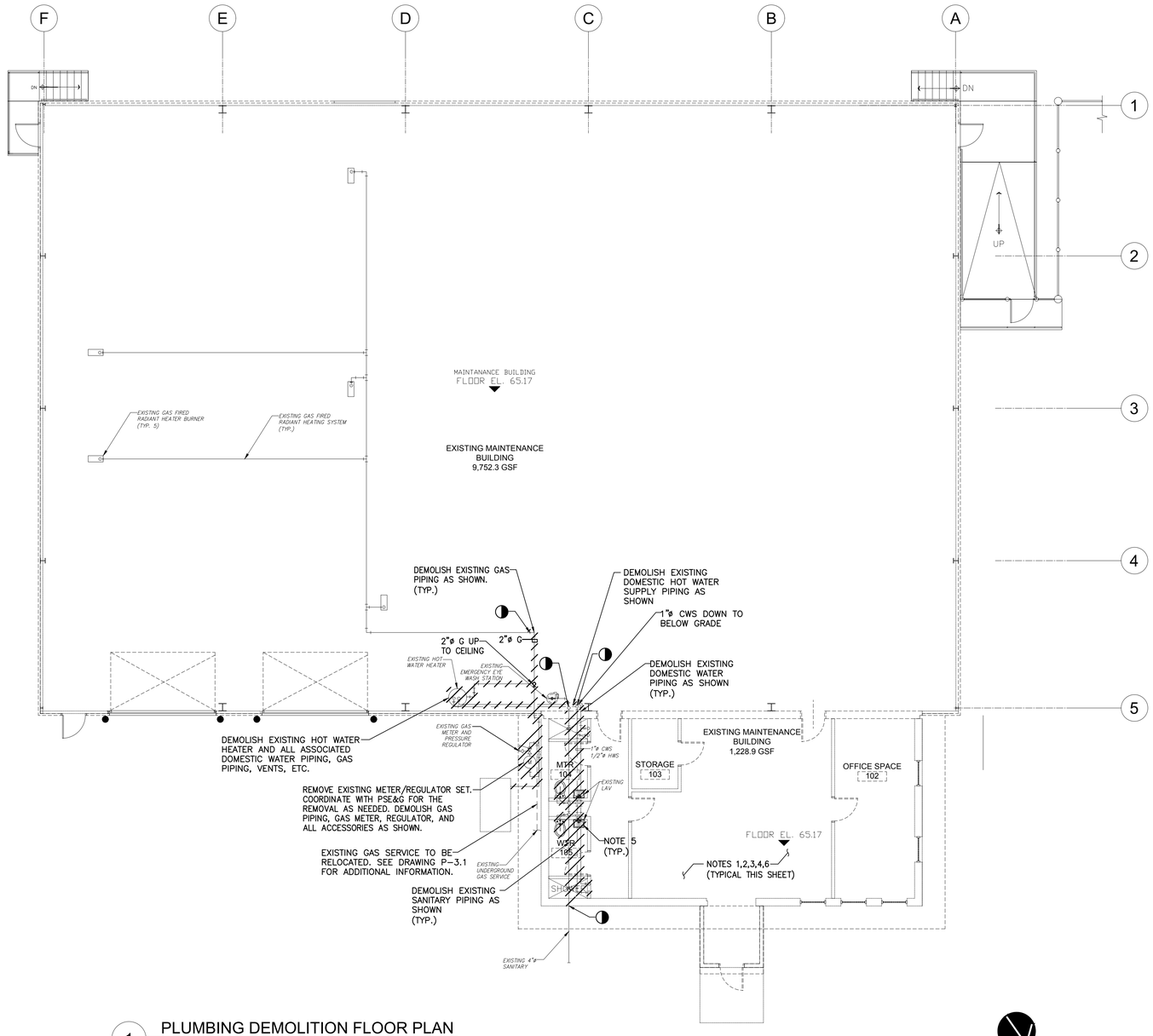
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Date	10.08.24
Scale	AS SHOWN
Drawn by	C.P.
Checked by	
Job No.	2241869

Drawing No.

E-5.2

P:\Projects\Burlington County\MAP\BMX\Revit\E-5.2 Electrical Schedules.dwg 1/10/2025 9:21:16 AM



1 PLUMBING DEMOLITION FLOOR PLAN

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

NOTES:

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
2. THIS DEMOLITION PLAN HAS BEEN PROVIDED AS A GUIDE. HOWEVER, ALL DEMOLITION REQUIRED TO SUCCESSFULLY COMPLETE THIS PROJECT SHALL BE INCLUDED IN THE SCOPE OF WORK. IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS TO SECURE A COMPLETELY INTERCONNECTED AND FUNCTIONING SYSTEM AND IF ANY WORKMANSHIP OR MATERIALS BE REQUIRED WHICH ARE OBVIOUSLY NECESSARY TO CARRY OUT THE FULL INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS OR TO BE REASONABLY INFERRED THEREFROM, THE COST OF SUCH WORKMANSHIP OR MATERIALS SHALL BE INCLUDED IN THE SCOPE OF WORK.
3. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING & REPLACING ANY OR ALL FIXTURES AND/OR AREAS OF THE CEILING, FLOOR OR WALL DAMAGED AS A RESULT OF THE NEW/DEMOLITION WORK. REPAIRED & REPLACED FIXTURES AND PORTIONS OF THE CEILING, FLOOR, OR WALL SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THEIR ORIGINAL CONDITION.
4. COORDINATE THE DEMOLITION OF EXISTING PLUMBING EQUIPMENT WITH OWNER. OWNER SHALL RESERVE THE RIGHT TO RETAIN SALVAGED EQUIPMENT. ALL EQUIPMENT NOT RETAINED BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR.
5. FIXTURE AND COMPONENT DEMOLITION SHALL INCLUDE THE FIXTURE OR COMPONENT ELEMENT, ALL TRIM COMPONENTS, FAUCETS, FLUSH VALVES, CARRIERS, SUPPLIES, TRAPS AND RELATED ACCESSORIES.
6. PIPING DEMOLITION SHALL INCLUDE DOMESTIC WATER, SANITARY, AND/OR VENT PIPING, NATURAL GAS, HANGERS, INSULATION, VALVES, FITTINGS AND ASSOCIATED ELEMENTS.

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SHEET CONTENTS:

PLUMBING DEMOLITION FLOOR PLAN

PROJECT TITLE:

RENOVATION FOR
MAINTENANCE BUILDING
BURLINGTON COUNTY
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:
XXX

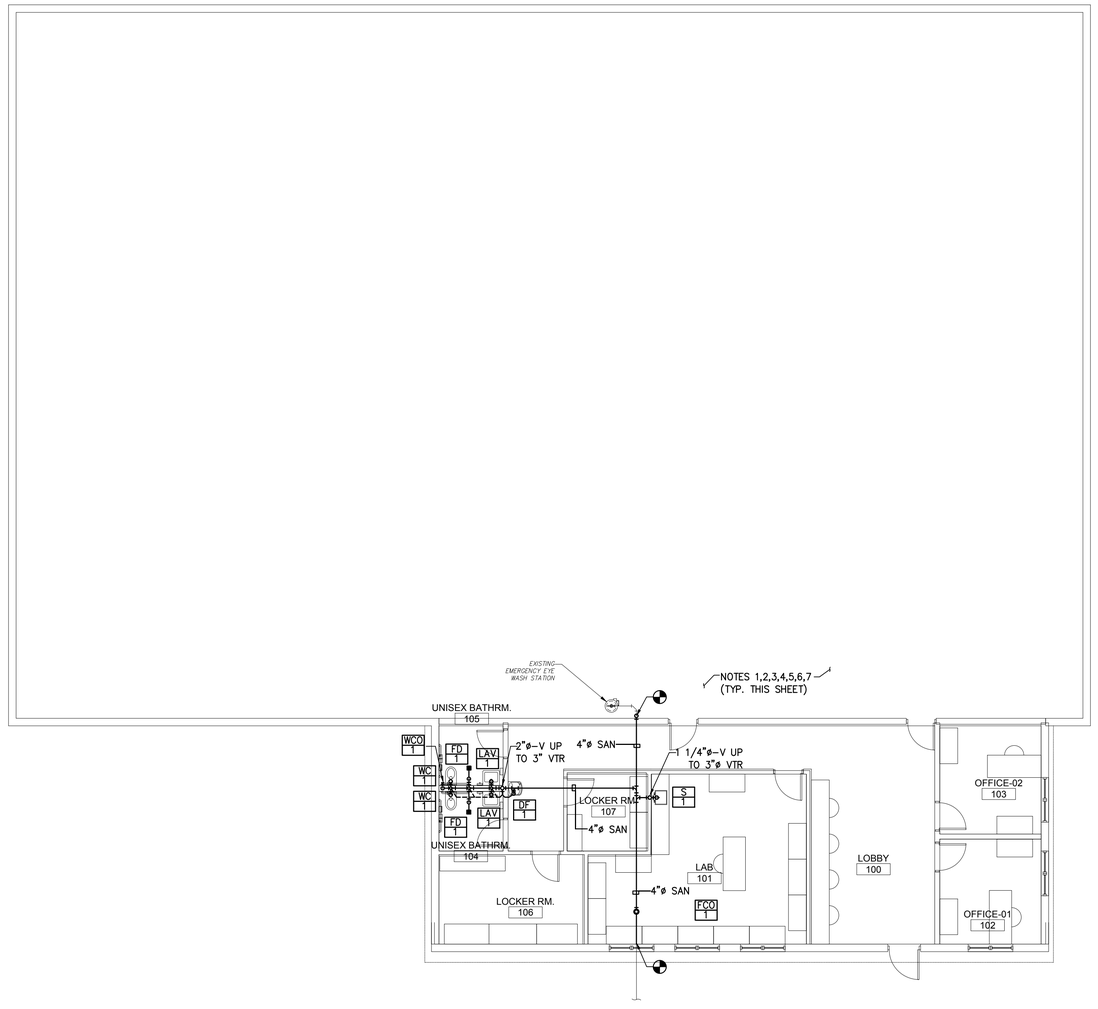
DATE	REVISIONS	BY	CHKD

Date	10.08.24
Scale	AS SHOWN
Drawn by	B.K.
Checked by	
Job No.	2241869

Drawing No.

P-1.1

P:\Projects\Burlington County\MP\BK\01\Sheets\P-1.1 Plumbing Demolition Floor Plan.dwg 1/9/2025 4:04:04 PM



1 PLUMBING SANITARY PIPING FLOOR PLAN

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

NOTES:

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
2. ALL INVERTS SHOWN ARE APPROXIMATE. INVERT ELEVATION BASED ON FINISHED FLOOR ELEVATION of 0.00. COORDINATE ALL INVERTS WITH SITE DRAWINGS, SITE CONTRACTOR, AND FIELD CONDITIONS PRIOR TO INSTALLING SANITARY PIPE.
3. ALL HORIZONTAL DRAINAGE PIPING 3 INCHES IN DIAMETER AND SMALLER SHALL BE SLOPED A MINIMUM OF 1/4" PER FOOT IN THE DIRECTION OF FLOW. ALL HORIZONTAL DRAINAGE PIPING 4 INCHES THROUGH 6" IN DIAMETER SHALL BE SLOPED A MINIMUM OF 1/8" PER FOOT IN THE DIRECTION OF FLOW. ALL HORIZONTAL DRAINAGE PIPING 8 INCHES AND LARGER IN DIAMETER SHALL BE SLOPED A MINIMUM OF 1/16" PER FOOT IN THE DIRECTION OF FLOW.
4. CONTRACTOR SHALL ROUTE DRAINAGE RISERS AND VENT LINES IN THE WALLS WHERE SHOWN. WHERE PIPING CAN NOT BE LOCATED IN WALLS. THE CONTRACTOR SHALL PROVIDE CHASE WALLS AS REQUIRED TO CONCEAL PIPING FROM VIEW. CHASE WALL AND FINISH TO MATCH SURROUNDING WALLS. COORDINATE ALL CHASE WALLS WITH ARCHITECT.
5. COORDINATE PIPING LAYOUTS IN ALL AREAS WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID INTERFERENCES. RELOCATE NEW PIPE TO ACCOMMODATE NEW DUCTWORK, EQUIPMENT, STRUCTURE, CONDUIT, ETC.
6. NOT ALL PIPE SIZES AND INLINE DEVICES ARE SHOWN ON THE PLAN FOR CLARITY PURPOSES. SEE THE PLUMBING RISER DIAGRAMS AND DETAIL SHEET(S) FOR ADDITIONAL REQUIREMENTS AND DETAILS. THE CONTRACTOR SHALL PROVIDE ALL REDUCERS, FITTINGS, ETC. AS REQUIRED TO COMPLETE THE NEW WORK EVEN IF NOT SPECIFICALLY SHOWN ON THE PLAN OR RISER DIAGRAMS.
7. SANITARY DRAINAGE AND VENT PIPING SHALL BE CAST IRON, SEE SPECIFICATION SECTION 221422 AND 221316 FOR ADDITIONAL REQUIREMENTS.

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DATE: 01-10-2025

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SHEET CONTENTS:

PLUMBING SANITARY PIPING FLOOR PLAN

PROJECT TITLE:

RENOVATION FOR
MAINTENANCE BUILDING
BURLINGTON COUNTY
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:
XXX

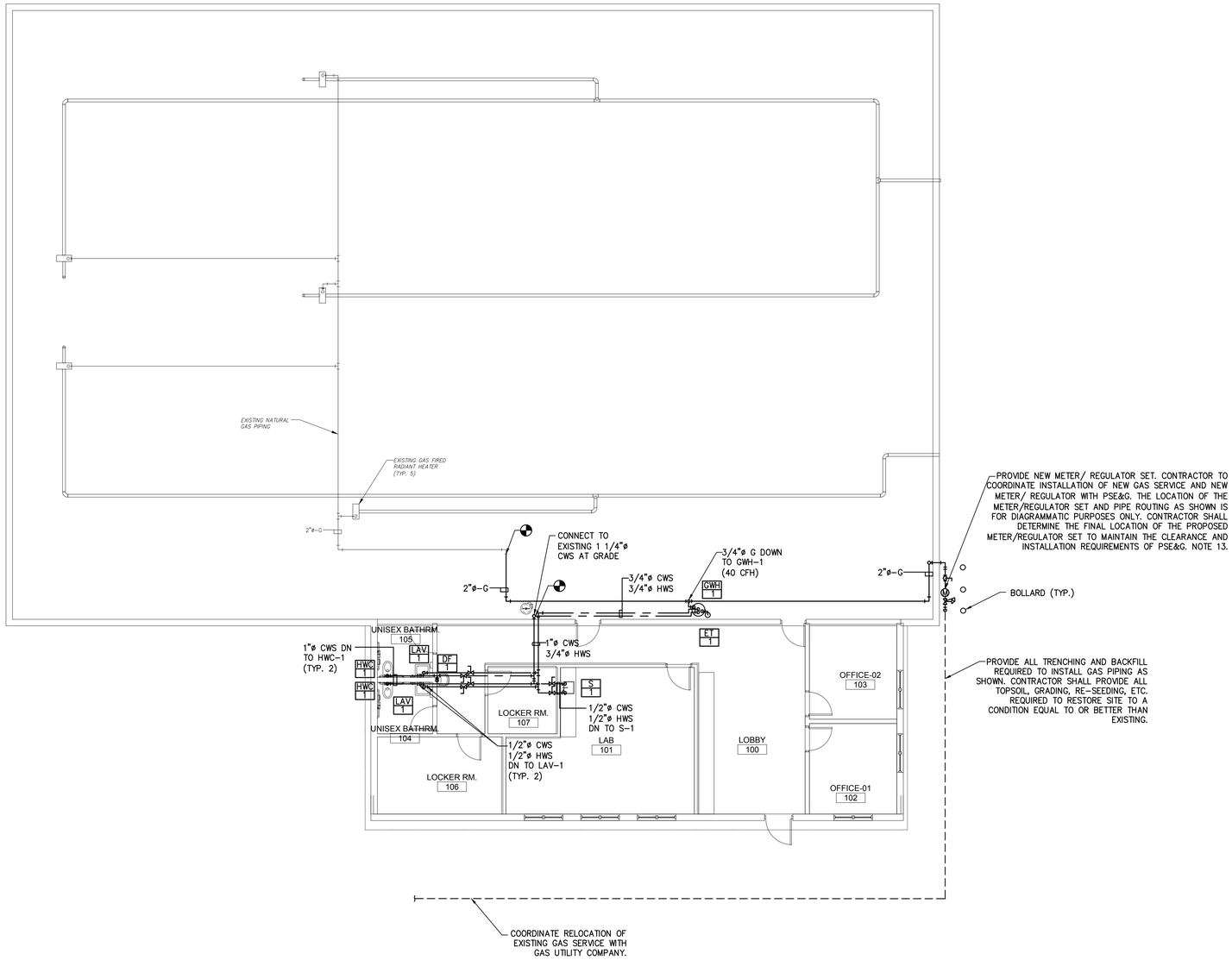
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Date	10.08.24
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Drawn by	B.K.
Checked by	
Job No.	2241869

Drawing No.

P-2.1

P:\Projects\Burlington County\MAINTENANCE\Sheet# 2.1 Plumbing Sanitary Piping Floor Plan.dwg 1/9/2025 4:04:08 PM



1 PLUMBING UTILITY PIPING FLOOR PLAN

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

NOTES:

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
2. COORDINATE PIPING LAYOUTS IN ALL AREAS WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID INTERFERENCES.
3. NOT ALL PIPE SIZES AND IN-LINE DEVICES ARE SHOWN ON THE PLAN FOR CLARITY. THE CONTRACTOR SHALL PROVIDE ALL REDUCERS, VALVES, WATER HAMMER ARRESTORS, ETC. AS REQUIRED TO COMPLETE THE NEW WORK EVEN IF NOT SPECIFICALLY SHOWN ON THE PLAN, RISER, OR DETAIL DRAWINGS.
4. PROVIDE LINE SIZE SHUT-OFF VALVES IN BRANCH LINES WHERE BRANCH LINES CONNECT TO MAINS.
5. DOMESTIC WATER PIPING SHALL BE SOLDERED COPPER TUBE. SEE CONTRACT SPECIFICATION SECTION 221116.
6. CONTRACTOR SHALL PROVIDE ALL CUTTING, EXCAVATION, BACKFILL AND REPAIR OF ALL FLOORS, WALLS, ETC. TO PROVIDE THE WORK. ALL FLOORS, WALLS, ETC. THAT HAVE BEEN SAWCUT/DEMOLISHED TO PROVIDE THE WORK SHALL BE REPAIRED TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING CONSTRUCTION.
7. PROVIDE METAL ENCLOSURE AROUND INSULATED PIPING TO CONCEAL AND PROTECT ALL VERTICAL PIPING. PAINT TO MATCH WALL COLOR.
8. PROVIDE LINE SIZE SHUT-OFF VALVES IN BRANCH LINE WHERE BRANCH LINES CONNECT TO MAINS.
9. FUEL GAS PIPING SHALL BE STEEL PIPE. PAINT ALL EXPOSED FUEL GAS PIPING (INCLUDING VENTS) IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. SEE CONTRACT SPECIFICATION SECTION 231123.
10. ALL GAS PRESSURE REGULATORS SHALL BE RATED AT THE MAXIMUM EMERGENCY PRESSURE OF 5 PSI.
11. ALL GAS PRESSURE REGULATORS SHALL BE SERVICE CLASS FUEL GAS PRESSURE REGULATORS.
12. APPROXIMATE LAYOUT OF PROPOSED PIPING IS SHOWN. CONTRACTOR TO VERIFY PIPING LAYOUT IN FIELD AND PROVIDE ALL LABOR AND MATERIALS TO AVOID INTERFERENCES. COORDINATE FINAL LAYOUT OF PIPING IN FIELD.
13. PROVIDE ALL GAS PIPING IN ACCORDANCE WITH THE 2021 INTERNATIONAL FUEL GAS CODE.

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SHEET CONTENTS:

PLUMBING UTILITY PIPING FLOOR PLAN

PROJECT TITLE:

RENOVATION FOR MAINTENANCE BUILDING
BURLINGTON COUNTY
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:
XXX

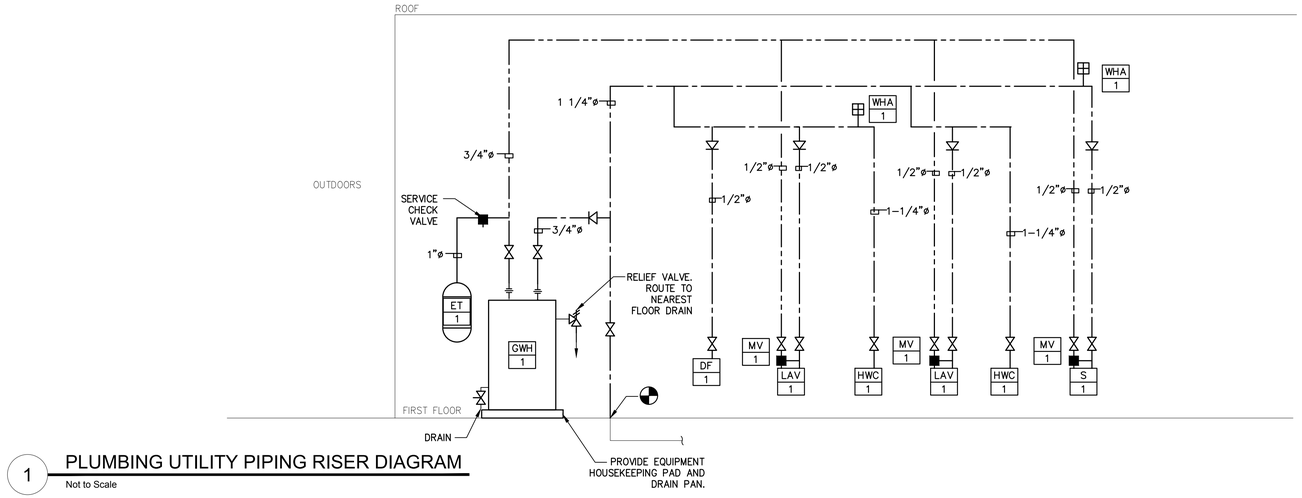
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Job No.	2241869

Drawing No.

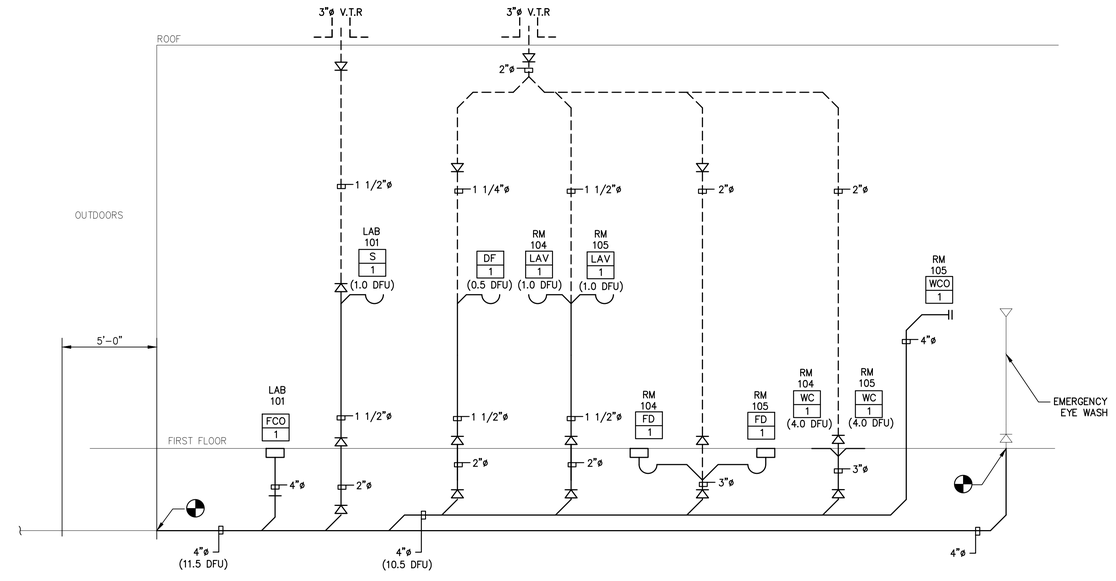
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P:\Projects\Burlington County\MP\Work\Drawings\ 3-1 Plumbing Utility Piping Floor Plan.dwg 10/2/2025 4:04:12 PM



1 PLUMBING UTILITY PIPING RISER DIAGRAM

Not to Scale



2 PLUMBING SANITARY PIPING RISER DIAGRAM

Not to Scale

UTILITY PIPING RISER DIAGRAM NOTES:

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
2. NOT ALL PIPE SIZES AND IN-LINE DEVICES ARE SHOWN ON THE PLAN FOR CLARITY, SEE THE PLUMBING RISER DIAGRAMS AND DETAIL SHEET(S) FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL PROVIDE ALL REDUCERS, VALVES, ETC. AS REQUIRED TO COMPLETE THE NEW WORK EVEN IF NOT SPECIFICALLY SHOWN ON THE PLAN, RISER, OR DETAIL DRAWINGS.
3. REFER TO EQUIPMENT SCHEDULES FOR EQUIPMENT CONNECTION SIZES.
4. DOMESTIC WATER PIPING SHALL BE SOLDERED TYPE L COPPER TUBE. SEE CONTRACT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

SANITARY PIPING RISER DIAGRAM NOTES:

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
2. REFER TO PLUMBING FIXTURE SCHEDULES AND FOOD SERVICE DRAWINGS FOR FIXTURE CONNECTION SIZES.
3. NOT ALL PIPE SIZES AND IN-LINE DEVICES ARE SHOWN FOR CLARITY, SEE THE PLUMBING DETAIL SHEET(S) FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL PROVIDE ALL REDUCERS, VALVES, ETC. AS REQUIRED TO COMPLETE THE NEW WORK EVEN IF NOT SPECIFICALLY SHOWN ON THE PLAN, RISER, OR DETAIL DRAWINGS.
4. ALL HORIZONTAL DRAINAGE PIPING 3 INCHES IN DIAMETER AND SMALLER SHALL BE SLOPED A MINIMUM OF 1/4" PER FOOT IN THE DIRECTION OF FLOW. ALL HORIZONTAL DRAINAGE PIPING 4 INCHES THROUGH 6" IN DIAMETER SHALL BE SLOPED A MINIMUM OF 1/8" PER FOOT IN THE DIRECTION OF FLOW.
5. PROVIDE ALL FLOOR DRAINS WITH DEEP SEAL TRAPS.
6. SANITARY DRAINAGE AND VENT PIPING SHALL BE CAST IRON, SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
7. CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES AND MODIFY PIPING LAYOUT AS NECESSARY TO AVOID INTERFERENCES. PROVIDE PLUMBING WORK IN ACCORDANCE WITH THE NSPC.
8. IF OFFSETS ARE REQUIRED IN VERTICAL PIPING TO AVOID INTERFERENCES. PROVIDE OFFSET USING 45° FITTINGS. 90° ELBOW FITTINGS SHALL NOT BE USED UNLESS PROVIDED IN ACCORDANCE WITH THE NATIONAL STANDARD PLUMBING CODE.

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SHEET CONTENTS:

PLUMBING RISER DIAGRAMS

PROJECT TITLE:

RENOVATION FOR MAINTENANCE BUILDING
BURLINGTON COUNTY
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:
XXX

DATE	REVISIONS	BY	CHKD

Date	10.08.24
Scale	AS SHOWN
Drawn by	B.K.
Checked by	
Job No.	2241869

Drawing No.
P-4.1

P:\Projects\Burlington County\M\Mech\19 Sheets\P-4.1 Plumbing Riser Diagrams.dwg 1/9/2025 4:54:18 PM

PLUMBING FIXTURE SCHEDULE

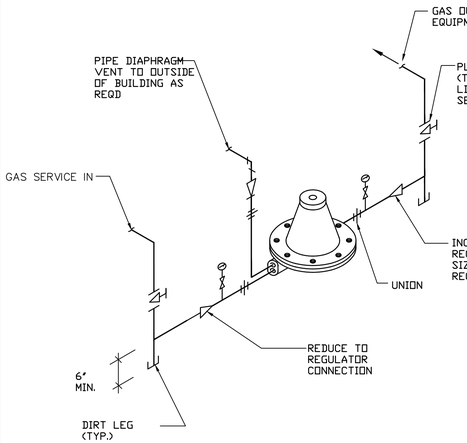
TAG	FIXTURE	DESCRIPTION	MANUF.	MODEL	MANUF.	ACCESSORY	MINIMUM CONNECTION SIZE (in.)				WATER SUPPLY FIXTURE UNITS (WSFU's)	DRAINAGE FIXTURE UNITS (DFU's)
							COLD	HOT	DRAIN	VENT		
DF-1	DRINKING FOUNTAIN	SINGLE ADA COOLER REFRIGERATED STAINLESS	ELKAY	LZSBWSSP	ELKAY	51600C FILTRATION KIT, LKAPREZL APRON, MLP100 CARRIER	1/2	N/A	1 1/2	1 1/4	0.25	0.5
ET-1	EXPANSION TANK	DIAPHRAGM EXPANSION TANK	AMTROL	ST-5C-DD	AMTROL	HEAVY DUTY BUTYL NSF/ANSI 61	3/4	N/A	N/A	N/A	N/A	N/A
FCO-1	CLEANOUT	HEAVY DUTY ADJUSTABLE FLOOR CLEANOUT	ZURN	Z1400	ZURN	ZN, VP	N/A	N/A	LINE	N/A	N/A	N/A
FD-1	FLOOR DRAIN	HEAVY DUTY SHALLOW SUMP FLOOR DRAIN	WADE	1200	WADE	NICKEL BRONZE TOP, VANDAL PROOF, HEEL PROOF GRATE, SEDIMENT BUCKET, SPECIAL DUTY, DEEP SEAL TRAP	N/A	N/A	3	2	N/A	0.0
HWC-1	WATER CLOSET	ELONGATED 1.6 GPF FLOOR MOUNTED ADA COMPLIANT PRESSURE ASSISTED TANK STYLE WATER CLOSET	ZURN	Z5560	ZURN	RH, Z5972-COMB, Z5958SS-EL, Z8800-CR	1	N/A	3	2	2.5	4.0
LAV-1	LAVATORY SINK	WALL HUNG VITREOUS CHINA LAVATORY	ZURN ONE SYSTEM	Z5314.464.3.01.41.5	ZURN	4" CENTERSET Z81104-XL-3M MANUAL FAUCET, ADA TRAP PROTECTOR, SUPPLY STOPS, P-TRAP, NOTE 3	1/2	1/2	1 1/2	1 1/2	1.0	1.0
MV-1	MIXING VALVE	THERMOSTATIC POINT OF USE MIXING VALVE	LEONARD	MODEL 270-LF	N/A	NOTE 3	1/2	1/2	N/A	N/A	N/A	N/A
S-1	COUNTERTOP SINK	STAINLESS STEEL SINGLE BOWL SINK W/FAUCET AND DRAIN	ELKAY	LR2522	ELKAY	PROVIDE WITH LK1000CR FAUCET, OFFSET DRAIN, TRAP, SUPPLIES WITH STOPS.	1/2	1/2	1 1/2	1 1/2	1.5	2.0
WCO-1	WALL CLEAN OUT	WALL CLEAN OUT TEE AND COVER	ZURN	Z1441	ZURN	Z8-VP	N/A	N/A	LINE	N/A	N/A	N/A
WHA-1	WATER HAMMER ARRESTOR	INLINE WATER HAMMER ARRESTOR	WILKINS/ZURN	1250XL-B	N/A	NOTE 4	3/4	N/A	N/A	N/A	N/A	N/A

NOTES
1. COLOR/FINISH TO BE AS APPROVED BY THE ARCHITECT/OWNER.
2. PROVIDE ALL ACCESSORIES REQUIRED TO OPERATE AND INSTALL FIXTURES. INSTALL FIXTURES IN ACCORDANCE WITH THE MANUFACTURES RECOMMENDATIONS AND ALL APPLICABLE CODES. COORDINATE FIXTURE DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
3. PROVIDE MIXING VALVES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. LOCATE IN ACCESSIBLE LOCATION, PROVIDE ACCESS PANEL AS REQUIRED.
4. PROVIDE ACCESS PANELS FOR WATER HAMMER ARRESTORS AS RECOMMENDED BY THE MANUFACTURER. COORDINATE WITH GENERAL CONTRACTOR.

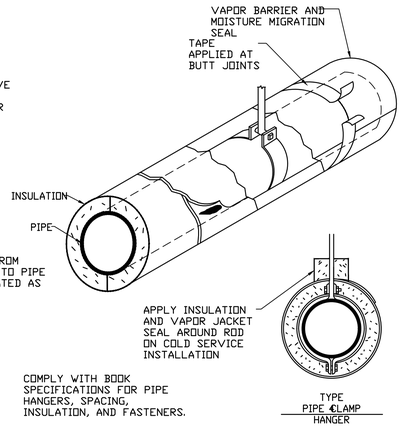
GAS HOT WATER HEATER SCHEDULE

TAG	MANUF.	MODEL	STORAGE CAPACITY (gallons)	GAS INPUT (BTU)	ENERGY FACTOR	FIRST HOUR RATING	RECOVERY @ 90 °F (gal/hr)	VENT SIZE (in)	COLD WATER INLET (in.)	HOT WATER OUTLET (in.)	NOTES
GHW-1	LOCHINVAR	GTN040 35	38	35,500	0.59	65	38	3	3/4	3/4	1

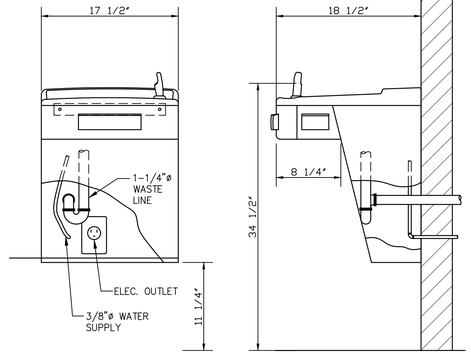
NOTES: 1. PROVIDE WITH LOW-WATER CUT-OFF, INTEGRATED CONTROL WITH LCD DISPLAY, TEMPERATURE/PRESSURE RELIEF VALVES, ALARM CONTACTS, MANUAL RESET HIGH LIMIT, POWER DIRECT VENT SYSTEM,



GAS PRESSURE REDUCING STATION

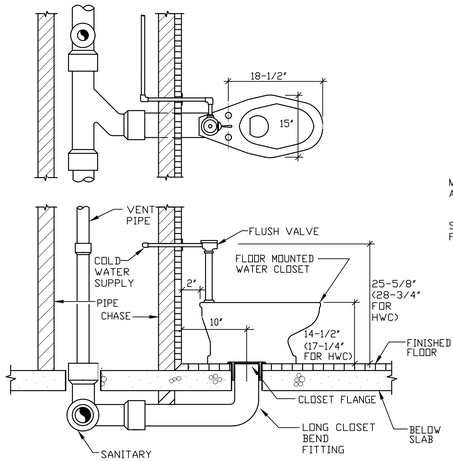


HANGER, INSULATION AND VAPOR JACKET DETAIL

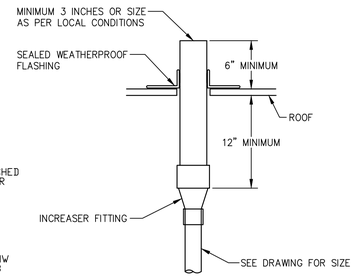


NOTES:
1. IF COOLER IS SET IN ALCOVE OR NEAR CORNER, ALLOW 1-/2" PER SIDE FOR VENTILATION.
2. SIMILAR FOR BARRIER-FREE SPLIT LEVEL COOLER. PROVIDE IN ACCORDANCE WITH THE ARCHITECTURAL DRAWINGS, MANUFACTURER'S RECOMMENDATIONS, AND ALL APPLICABLE CODES AND STANDARDS.

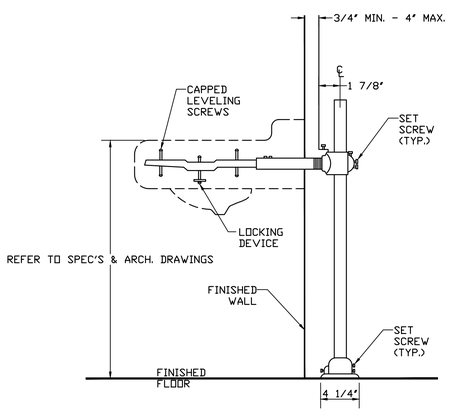
BARRIER-FREE VERSACOOLER



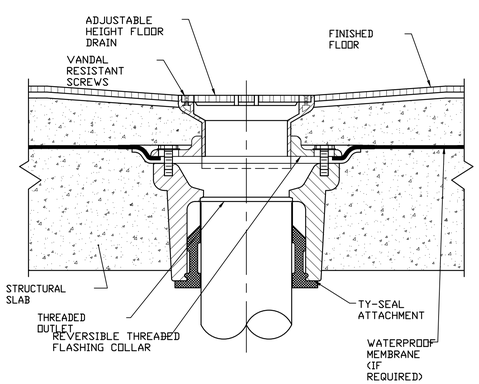
ON-THE-FLOOR WATER CLOSET
N.T.S.



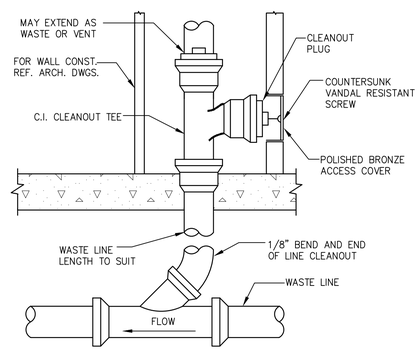
ROOF VENT PENETRATION DETAIL
N.T.S.



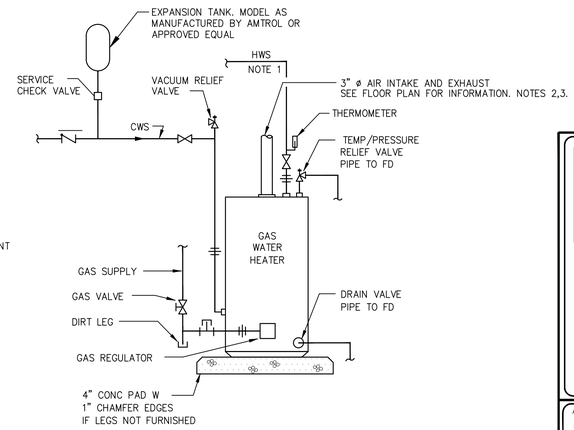
LAVATORY MOUNTING DETAIL



FLOOR DRAIN DETAIL



WALL CLEANOUT FOR FINISHED ROOMS
N.T.S.



NOTES:
1. SEE PLANS AND RISER DIAGRAMS FOR CONTINUATION.
2. PROVIDE MANUFACTURER SUPPLIED VENT TERMINALS.
3. EXHAUST VENTING MATERIAL AS RECOMMENDED BY MANUFACTURER.

HOT WATER SYSTEM PIPING
N.T.S.

ISSUED FOR BID
DATE: 01-10-2025

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NEW JERSEY | FLORIDA | NEW YORK
CERTIFICATE OF AUTHORIZATION AC-438

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SHEET CONTENTS:

PLUMBING DETAILS AND SCHEDULES

PROJECT TITLE:

RENOVATION FOR MAINTENANCE BUILDING
BURLINGTON COUNTY
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:
XXX

DATE	REVISIONS	BY	CHKD

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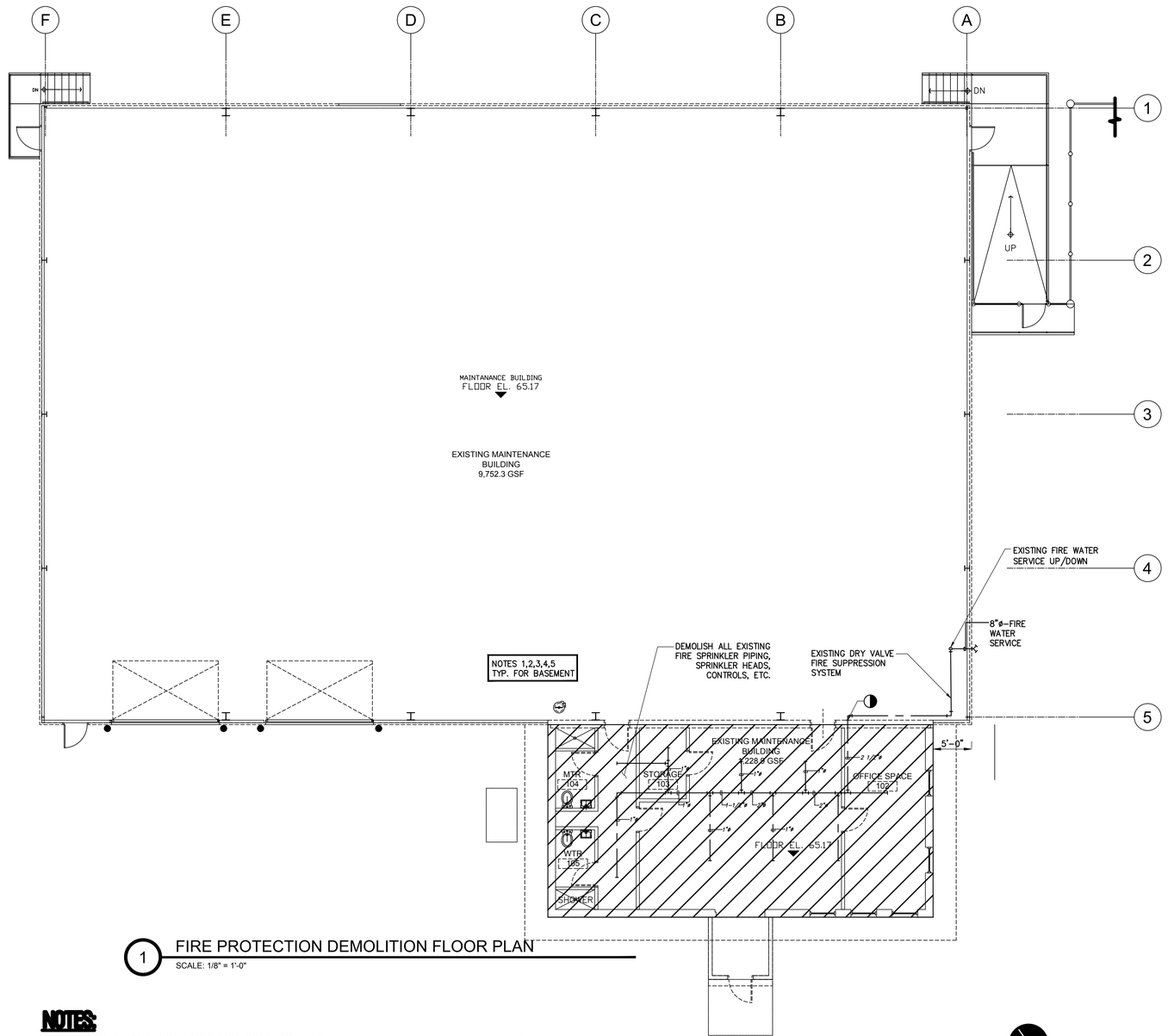
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DATE:
CHRISTOPHER A. SAPONARO
NJ PROFESSIONAL ENGINEER LIC. No. 40059

Date	10.08.24
Scale	AS SHOWN
Drawn by	B.K.
Checked by	
Job No.	2241869

Drawing No.
P-5.1

P:\Projects\Burlington County\MP\MEP\Sheets\P-5.1 Plumbing Schedules.dwg 10/10/2024 2:04:18 PM



1 FIRE PROTECTION DEMOLITION FLOOR PLAN

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

NOTES:

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M–1.0 APPLY TO THIS DRAWING.
2. THIS DEMOLITION PLAN HAS BEEN PROVIDED AS A GUIDE. HOWEVER, ALL DEMOLITION REQUIRED TO SUCCESSFULLY COMPLETE THIS PROJECT SHALL BE INCLUDED IN THE SCOPE OF WORK. IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS TO SECURE A COMPLETELY INTERCONNECTED AND FUNCTIONING SYSTEM AND IF ANY WORKMANSHIP OR MATERIALS BE REQUIRED WHICH ARE OBVIOUSLY NECESSARY TO CARRY OUT THE FULL INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS OR TO BE REASONABLY INFERRED THEREFROM, THE COST OF SUCH WORKMANSHIP OR MATERIALS SHALL BE INCLUDED IN THE SCOPE OF WORK.
3. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING & REPLACING ANY OR ALL FIXTURES AND/OR AREAS OF THE CEILING, FLOOR OR WALL DAMAGED AS A RESULT OF THE NEW/DEMOLITION WORK. REPAIRED & REPLACED FIXTURES AND PORTIONS OF THE CEILING, FLOOR, OR WALL SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THEIR ORIGINAL CONDITION.
4. CONTRACTOR SHALL TEMPORARILY REMOVE ALL EXISTING FIRE ALARM DEVICES. REINSTALL IN ORIGINAL LOCATION AFTER NEW CEILINGS HAVE BEEN INSTALLED THE FIRE ALARM SYSTEM SHALL BE KEPT IN SERVICE DURING CONSTRUCTION. PROVIDE A FIRE WATCH FOR AREAS WHERE DETECTION IS TEMPORARILY REMOVED.
5. COORDINATE THE DEMOLITION OF THE EXISTING FIRE PROTECTION EQUIPMENT WITH THE ELECTRICAL CONTRACTOR.

ISSUED FOR BID

DATE: 10.08.24

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SHEET CONTENTS:

FIRE PROTECTION
DEMOLITION FLOOR PLAN

PROJECT TITLE:

RENOVATION FOR
MAINTENANCE BUILDING
BURLINGTON COUNTY
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:
XXX

DATE	REVISIONS	BY	CHKD

Date	10.08.24
Scale	AS SHOWN
Drawn by	B.K.
Checked by	
Job No.	2241869

Drawing No.

FP-1.1

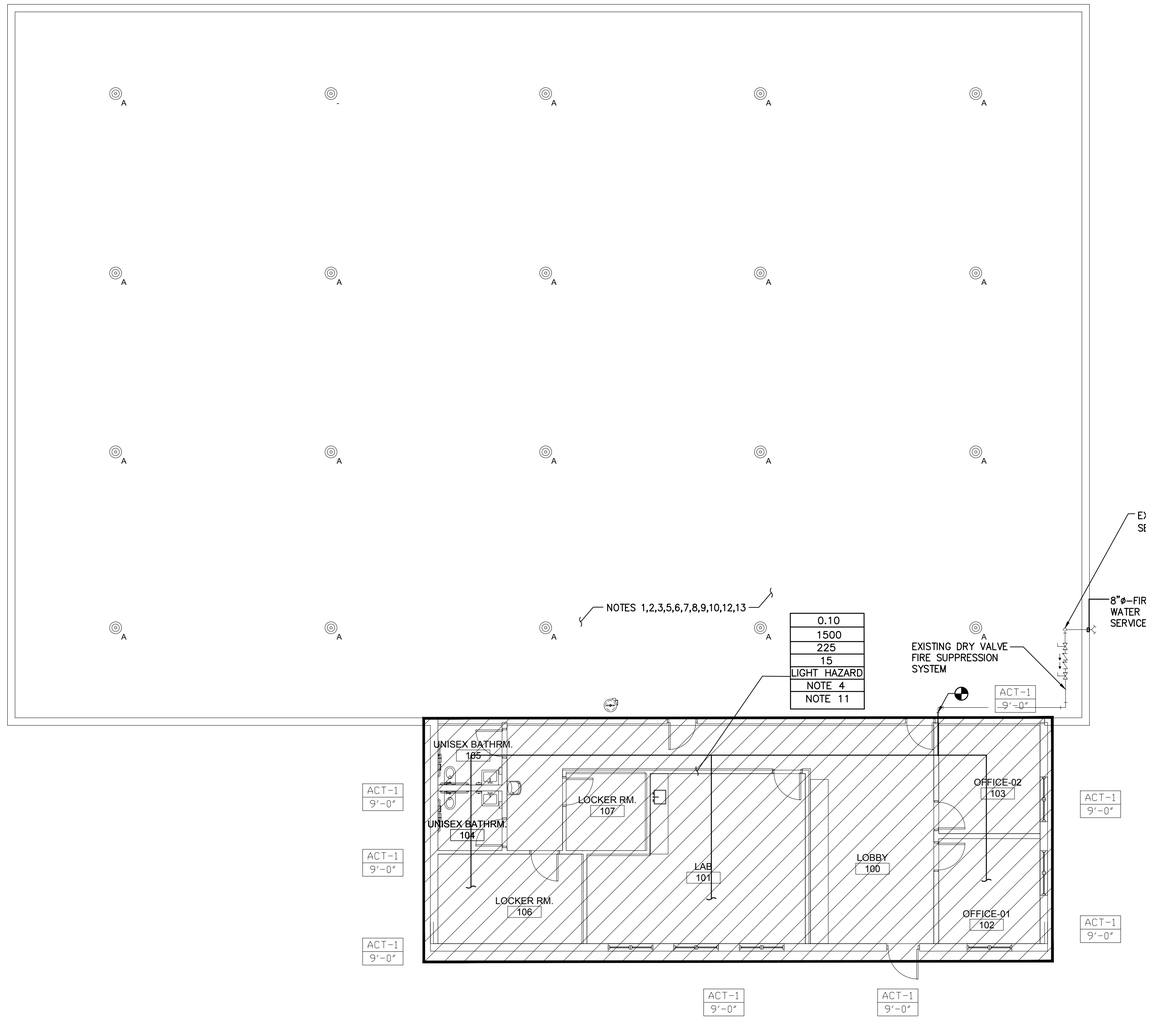
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DATE:

CHRISTOPHER A. SAPONARO
NJ PROFESSIONAL ENGINEER LIC. No. 40059

P:\Projects\Burlington County\MP3\MAINT\Sheets\Fire Protection\FP-1.1 FIRE PROTECTION DEMOLITION FLOOR PLAN.dwg 10/8/2024 4:05:48 PM



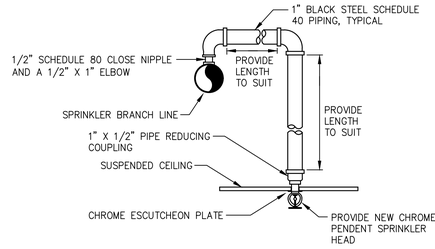
1 FIRE PROTECTION FLOOR PLAN

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

LEGEND

XXX	SPRINKLER DENSITY–(GPM/SQFT)
XXX	AREA OF SPRINKLER OPERATION (FT2)
XXX	MAX COVERAGE AREA PER SPRINKLER (FT2)
XXX	MAX SPACING (FT)
XXX	NFPA CLASSIFICATION
XXX	SPRINKLER TYPE
XXX	NOTES

LIGHT HAZARD

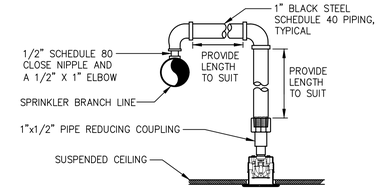


NOTES:

1. ADJUST SPRINKLER DROPS AS NECESSARY TO CLEAR OBSTRUCTIONS SUCH AS THE CEILING "T" BAR SUSPENSION SYSTEM, LIGHT FIXTURES, ETC. PROVIDE A PIPE HANGER IF THE HORIZONTAL OFFSET LENGTH EXCEEDS 24 INCHES.
2. THIS SPRINKLER HEAD DROP IS APPLICABLE ONLY WHERE IT IS NOT NECESSARY TO RETAIN AN UPRIGHT SPRINKLER FOR PROTECTION OF COMBUSTIBLE CONSTRUCTION ABOVE THE CEILING.

TYPICAL NEW SPRINKLER HEAD DROP

N.T.S.

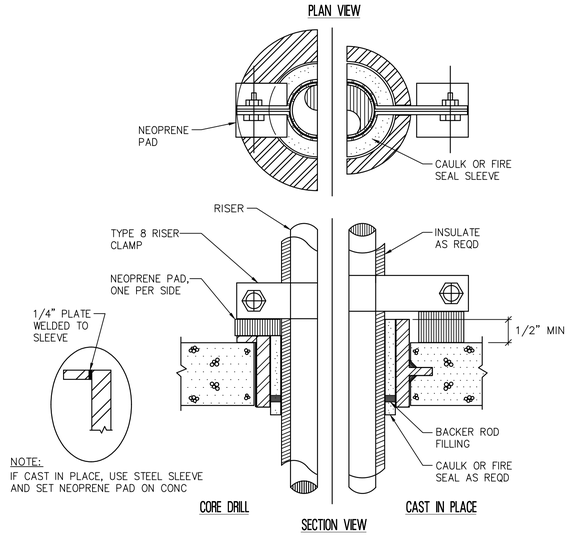


NOTES:

1. ADJUST SPRINKLER DROPS AS NECESSARY TO CLEAR OBSTRUCTIONS SUCH AS THE CEILING "T" BAR SUSPENSION SYSTEM, LIGHT FIXTURES, ETC.PROVIDE A PIPE HANGER IF THE HORIZONTAL OFFSET LENGTH EXCEEDS 24 INCHES.
2. THIS SPRINKLER HEAD DROP IS APPLICABLE ONLY WHERE IT IS NOT NECESSARY TO RETAIN AN UPRIGHT SPRINKLER FOR PROTECTION OF COMBUSTIBLE CONSTRUCTION ABOVE THE CEILING.

NEW SPRINKLER HEAD DROP WITH RECESSED SPRINKLER HEAD

N.T.S.



TYPICAL SINGLE PIPE RISER CLAMP WITH VIBRATION ISOLATION

N.T.S.

NOTES:

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M–1.0 APPLY TO THIS DRAWING.
2. ALL PIPE SIZES SHOWN ON THE DRAWING ARE EXISTING PIPE SIZES. FIRE PROTECTION CONTRACTOR SHALL SIZE PIPING BASED ON HYDRAULIC CALCULATIONS IN ACCORDANCE WITH NFPA AND SPECIFICATIONS. PRIOR TO PERFORMING HYDRAULIC CALCULATIONS, THE CONTRACTOR SHALL PERFORM A FLOW TEST IN ACCORDANCE WITH NFPA TO DETERMINE STATIC AND RESIDUAL PRESSURES AND CAPACITIES. COORDINATE FLOW TEST WITH LOCAL AUTHORITIES.
3. FIRE PROTECTION CONTRACTOR SHALL COORDINATE INSTALLATION OF SPRINKLER HEADS WITH OTHER TRADES TO AVOID INTERFERENCES WITH DUCTWORK PIPING, CONDUIT, STRUCTURE, ETC.
4. PROVIDE CONCEALED TYPE SPRINKLER HEADS IN ALL ROOMS WITH SUSPENDED CEILINGS. PROVIDE UPRIGHT OR PENDENT TYPE SPRINKLER HEADS IN AREAS WITHOUT CEILINGS. PROVIDE INTERMEDIATE TEMPERATURE HEADS IN THE ALL AREAS THAT ARE HEATED ONLY. PROVIDE ORDINARY TEMP SPRINKLERS IN STORAGE ROOMS. FOR AREAS WITH SECURITY CEILINGS, PROVIDE SECURE, TAMPER PROOF INSTITUTIONAL SPRINKLER.
5. FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL QUANTITIES AND LOCATIONS IN THE FIELD AS REQUIRED TO AVOID INTERFERENCES WITH DIFFUSERS, DUCTWORK, BUILDING STRUCTURE CONDUIT, ETC. AND THAT THESE FINAL QUANTITIES AND LOCATIONS ARE IN ACCORDANCE WITH NFPA.
6. CONTRACTOR SHALL BE REQUIRED TO DEMOLISH ALL EXISTING FIRE PROTECTION SPRINKLERS IN THE AREA WHERE NEW COVERAGE IS TO BE PROVIDED AS SHOWN ON THIS PLAN.
7. CONTRACTOR SHALL MAKE ALL REVISIONS TO EXISTING PIPING AND SPRINKLERS AS NECESSARY TO PROVIDE PROPOSED COVERAGE AS SHOWN ON THESE PLANS AND TO RETAIN EXISTING COVERAGE TO ALL OTHER AREAS OF THE BUILDING.
8. CONTRACTOR TO INVESTIGATE AND FIELD VERIFY THE EXISTING FIRE PROTECTION SPRINKLER PIPE SIZE AND LAYOUT AS NECESSARY TO PERFORM HYDRAULIC CALCULATIONS AND PROVIDE COVERAGE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. IT IS STRONGLY RECOMMENDED THAT THE CONTRACTOR VISIT THE SITE PRIOR TO SUBMITTING HIS BID TO FULLY UNDERSTAND THE EXISTING CONDITIONS. CONTRACTOR SHALL INCLUDE IN HIS BID ALL MATERIALS AND LABOR NECESSARY TO PERFORM THE SCOPE OF WORK AS SHOWN ON THE CONTRACT DRAWINGS.
9. CONTRACTOR SHALL REUSE EXISTING SPRINKLER PIPING, REMOVE EXISTING HEADS, AND REPLACE SPRINKLER HEADS AND DROPS TO ACCOMODATE NEW CEILING. COORDINATE WITH ARCHITECTURAL CEILING PLAN.
10. CONTRACTOR TO DEMOLISH EXISTING BRANCH PIPING AND SPRINKLER DROPS, AND PROVIDE NEW DISTRIBUTION BRANCH PIPING AND SPRINKLER DROPS TO PROVIDE COVERAGE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. PROVIDE HYDRAULIC CALCULATIONS IN ACCORDANCE WITH NFPA 13 FOR THE RECONFIGURED SPACE. SEE ALSO NOTES 6 AND 7.
11. CONTRACTOR TO PROVIDE ALL WORK AND MATERIALS, INCLUDING REVISIONS TO SPRINKLER PIPING, IN ALL AREAS, EVEN IF NOT NOTED ON THIS PLAN, AS NECESSARY PROVIDE THE COVERAGE SPECIFIED.
12. CONTRACTOR REQUIRED TO PROVIDE ALL FLOW TESTS, ETC. NECESSARY TO PERFORM THE REQUIRED CALCULATIONS AND SYSTEM INSTALLATION AND TESTING. SEE SPECIFICATION SECTION 211313.
13. CONTRACTOR TO REMOVE AND REPLACE ALL CEILING TILES, LIGHTING, ETC. NECESSARY TO INSTALL SPRINKLER PIPING.

ISSUED FOR BID
DATE: 01-10-2025

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DATE:

CHRISTOPHER A. SAPONARO
NJ PROFESSIONAL ENGINEER LIC. No. 40059

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NEW JERSEY | FLORIDA | NEW YORK
CERTIFICATE OF AUTHORIZATION AC-438

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SHEET CONTENTS:

FIRE PROTECTION FLOOR PLAN

PROJECT TITLE:

RENOVATION FOR MAINTENANCE BUILDING
BURLINGTON COUNTY
10 HARTFORD ROAD,DELRAN TWP.
BURLINGTON CO. NJ

SUBMISSION:
XXX

DATE	REVISIONS	BY	CHKD

Date	10.08.24
Scale	AS SHOWN
Drawn by	B.K.
Checked by	
Job No.	2241869

Drawing No.

FP-2.1

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