

TOWN OF CANTON ARMORY COMMUNITY CENTER RENOVATION

SUBMITTED FOR:
CONSTRUCTION DOCUMENTS
NOVEMBER 12, 2025

OWNER:
TOWN OF CANTON
85 SUMMER STREET
CANTON, NC, 28716

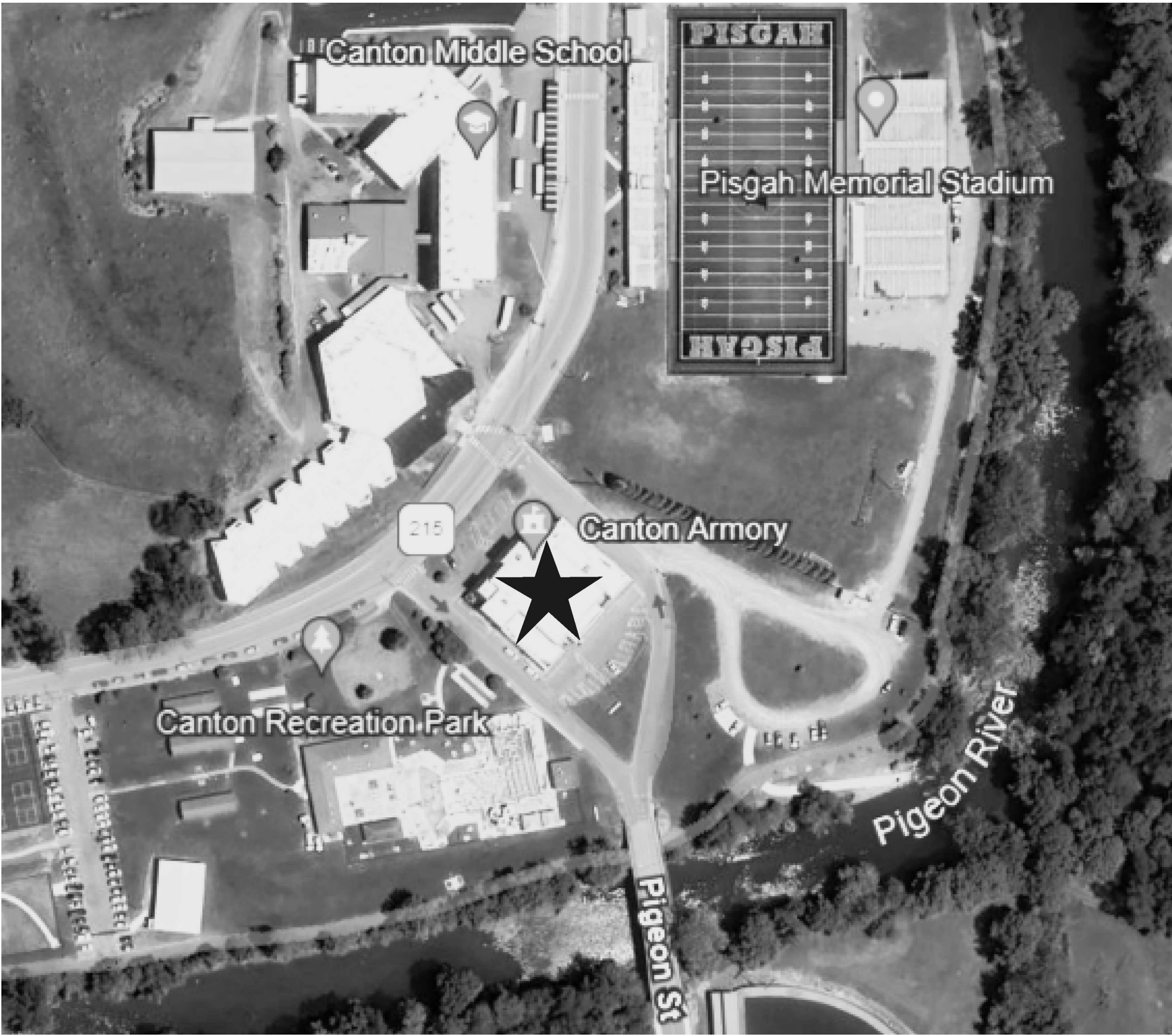
ARCHITECT:
CRAIG GAULDEN DAVIS | PBK
19 WASHINGTON PARK
GREENVILLE, SOUTH CAROLINA 29601

STRUCTURAL ENGINEER:
FULLER GROUP, LLC.
1350 CLEVELAND ST.
GREENVILLE, SOUTH CAROLINA, 29607

MECHANICAL, PLUMBING, & FIRE PROTECTION ENGINEER:
REECE, NOLAND, & McELRATH, INC.
390 MAIN STREET
CANTON, NORTH CAROLINA 28716

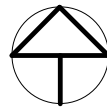
KITCHEN CONSULTANT:
FOODESIGN ASSOCIATES.
8303 UNIVERSITY EXECUTIVE PARK DRIVE
SUITE 410
CHARLOTTE, NORTH CAROLINA 28262

OWNERS FEMA CONSULTANT:
MCGILL ASSOCIATES, PA.
5400 TRINITY ROAD
SUITE 107
RALEIGH, NORTH CAROLINA 27607
CONTACT : MICHAEL HANSON



VICINITY MAP

N.T.S



DRAWING LIST

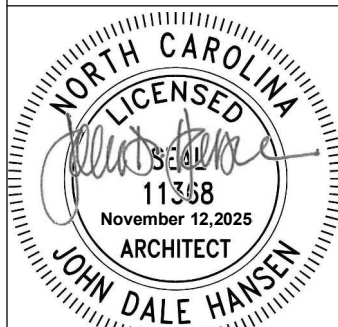
T100	TITLE SHEET
GENERAL	
G101	GENERAL NOTES AND LEGENDS
G102	ACCESSIBILITY STANDARDS
LIFE SAFETY	
LS101	LIFE SAFETY PLANS
DEMOLITION	
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CIVIL	
C001	CIVIL COVER PAGE
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C641	CIVIL DETAILS - UTILITY
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A102	UPPER LEVEL NEW FLOOR PLAN
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A203	WALL TYPES - UL
A204	WALL TYPES - UL
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A301	EXTERIOR ELEVATIONS
A302	EXTERIOR ELEVATIONS
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A705	INTERIOR ELEVATIONS - GYM
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S402	SECTIONS & DETAILS
S403	SECTIONS & DETAILS
S404	SECTIONS & DETAILS
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M101	MECHANICAL MAIN LEVEL RENOVATION PLAN
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PD102	UPPER LEVEL PLUMBING DEMOLITION PLAN
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P101	MAIN LEVEL NEW PLUMBING FLOOR PLAN
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FP101	MAIN LEVEL NEW FIRE PROTECTION FLOOR PLAN
FP102	UPPER LEVEL NEW FIRE PROTECTION FLOOR PLAN
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ED101	MAIN LEVEL ELECTRICAL DEMOLITION PLAN
ED102	UPPER LEVEL ELECTRICAL DEMOLITION PLAN
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E001	ELECTRICAL NOTES & SYMBOLS
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E101	MAIN LEVEL ELECTRICAL POWER & RECEPTACLE PLAN
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E103	ROOF LEVEL ELECTRICAL PLAN
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CONSULTANT

TOWN OF
CANTON

ARMORY
COMMUNITY
CENTER
RENOVATION

71 PENLAND ST., CANTON, NC 28716

DATE	MARK	DESCRIPTION
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ISSUE: CONSTRUCTION DOCUMENTS

DATE: 11/12/2025

PROJECT NO: 23029

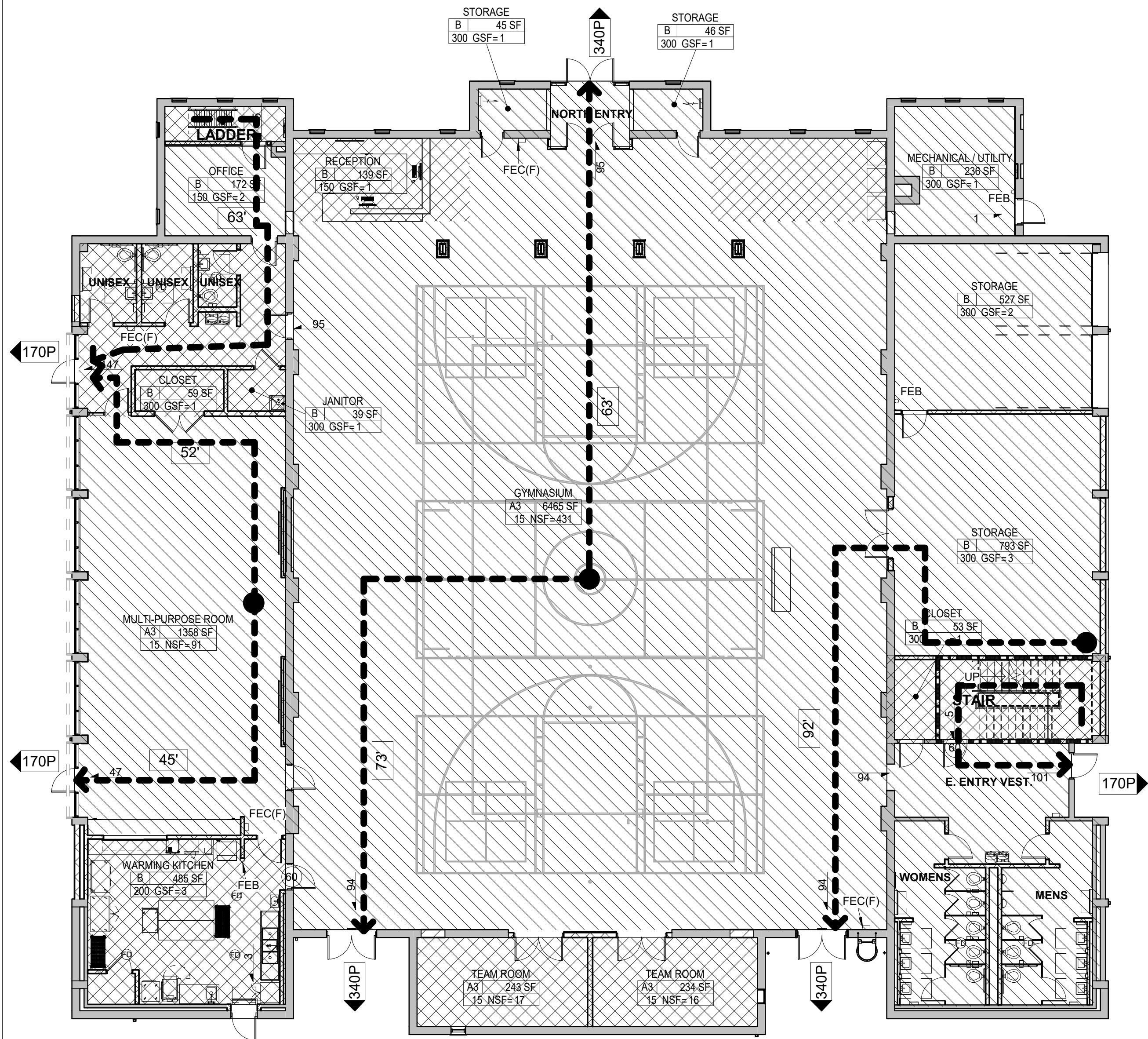
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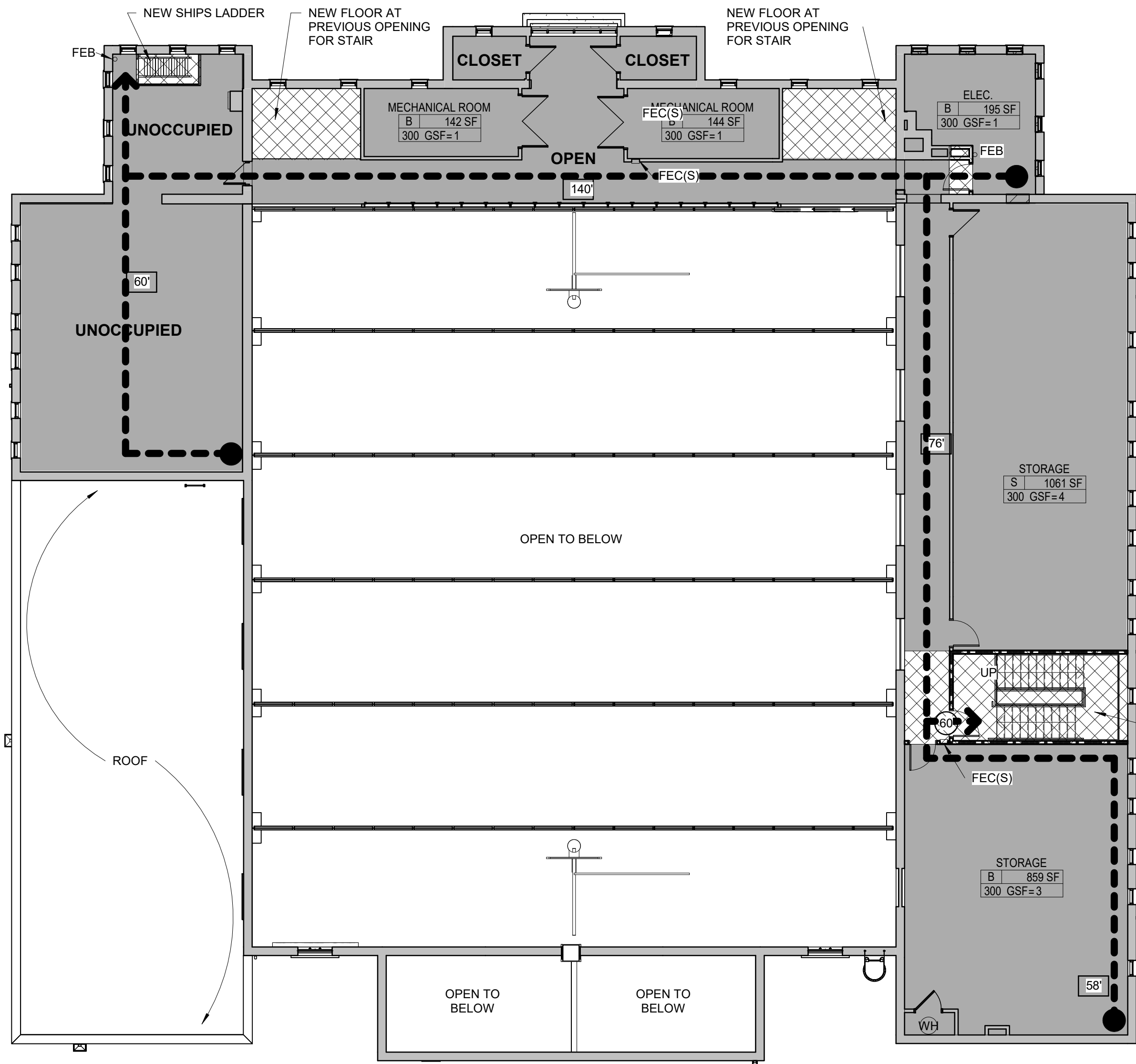
TITLE SHEET

T100

Autodesk Docs/Canton Armory Community Center Renovation
11/13/2025 5:04:27 PM



1 MAIN LEVEL LIFE SAFETY PLAN
LS101 3/32" = 1'-0"



2 SECOND LEVEL LIFE SAFETY PLAN
LS101 3/32" = 1'-0"

LIFE SAFETY LEGEND

Room name USE 150 SF O/LF Type=1 LOAD	OCCUPANCY USE GROUP & ROOM SQUARE FOOTAGE (OCCUPANT LOAD)
82P	OCCUPANT LOAD AT EXIT
100P	EXIT CAPACITY PROVIDED (DOOR)
100P	EXIT CAPACITY PROVIDED (STAIR)
100'	EXIT TRAVEL DISTANCE
---	DIRECTION OF EXIT TRAVEL
(20)	RATED DOOR ASSEMBLY
FEB FEC(X)	FIRE EXTINGUISHER CABINET FEC(R) RECESSED FEC(S) SEMI RECESSED FEC(F) FLUSH MOUNTED FEB BRACKET MOUNTED
N TRUE NORTH	NORTH ARROW
	NO WORK
	ALTERATION LEVEL 1
	ALTERATION LEVEL 2

LIFE SAFETY NOTES

1. NOT USED.

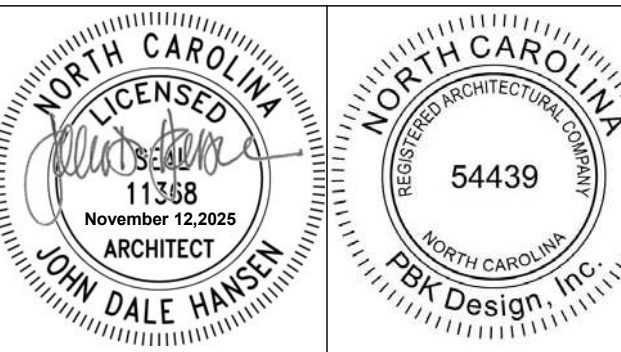
CODE SUMMARY: TOWN OF CANTON - ARMORY COMMUNITY CENTER RENOVATION	
PROJECT BUILDING STATEMENT:	
RENOVATION OF A 20,000 SF 2-STORY 1938 HISTORIC ARMORY TO ENHANCE ITS RESILIENCE AGAINST FUTURE FLOODS AND DISASTERS. THE BUILDING USE FOR ASSEMBLY WILL REMAIN THE SAME. THE EXISTING STRUCTURE COMPRISES OF MASONRY, STEEL, AND WOOD. THE EXTERIOR SCOPE WILL INCLUDE REPLACING THE ROOF, REPAIRING MASONRY WALLS, REPLACING WINDOWS AND DOORS, AND ADDING NEW LIGHTING. THE 14,400 SF MAIN LEVEL INTERIOR RENOVATION WILL INCLUDE REPLACING WOOD STUD WALLS WITH NEW MASONRY WALLS, REFURISHING THE RESTROOMS AND KITCHEN, NEW RESILIENT FINISHES, ADDED RECREATIONAL EQUIPMENT, AND NEW MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS. THE 5,800 SF UPPER LEVEL WILL MOSTLY REMAIN UNCHANGED AND WILL NOT BE USED EXCEPT SPACE FOR MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT AS WELL AS STORAGE ITEMS. THE MODIFICATIONS INCLUDE NEW FLOORS AT DISCARDED OPENINGS AND A NEW STAIR AND SHIPS LADDER FOR EMERGENCY EGRESS.	
THE MAIN LEVEL ALTERATIONS ARE PRIMARILY LEVEL 1 (83% OF FLOOR AREA) WITH SOME LEVEL 2 ALTERATIONS (17% OF FLOOR AREA) FOR ADJUSTING THE KITCHEN, RESTROOMS, REMOVING OLD STAIRS, AND ADDING A NEW STAIR AND LADDER. THE SECOND LEVEL REMAINS PRIMARILY UNCHANGED (90% OF FLOOR AREA) WITH LIMITED LEVEL 2 ALTERATIONS (10% OF FLOOR AREA) FOR INFILL FLOORS AT PREVIOUS OPENINGS AND A NEW RATED STAIR AND A NEW SHIPS LADDER.	
PROJECT DESIGNED IN ACCORDANCE WITH:	
NORTH CAROLINA STATE EXISTING BUILDING CODE	2018 EDITION W/ NC AMENDMENTS
NORTH CAROLINA STATE PLUMBING CODE	2018 EDITION W/ NC AMENDMENTS
NORTH CAROLINA STATE MECHANICAL CODE	2018 EDITION W/ NC AMENDMENTS
NORTH CAROLINA STATE FIRE PREVENTION CODE	2015 EDITION W/ NC AMENDMENTS
NORTH CAROLINA STATE ENERGY CONSERVATION CODE	2012 EDITION W/ NC AMENDMENTS
NATIONAL ELECTRICAL CODE	2020 EDITION W/ NC AMENDMENTS
ICC ANSI A117.1	2009 EDITION W/ NC AMENDMENTS
IN ACCORDANCE WITH THE 2018 NORTH CAROLINA STATE BUILDING CODE (BASED ON THE 2015 IBC)	
MUNICIPALITY AND/OR COUNTY WHERE PROJECT IS LOCATED:	
CODE JURISDICTION FOR:	
SITE WORK:	TOWN OF CANTON
WATER:	TOWN OF CANTON
SEWER:	TOWN OF CANTON
FIRE DEPARTMENT:	TOWN OF CANTON
USE AND OCCUPANCY CLASSIFICATION:	
CONSTRUCTION TYPE: III (EXISTING CONSTRUCTION)	
OCCUPANCY CLASSIFICATION: ASSEMBLY A-3	
NON-SEPARATED OCCUPANCIES: N/A	
CONSTRUCTION TYPE AND OCCUPANCY CLASSIFICATION REMAINS UNCHANGED BY RENOVATION. CONSTRUCTION TYPE WILL REMAIN UNCHANGED BY ALTERATIONS. NEW CONSTRUCTION SHALL MEET CONSTRUCTION TYPE II REQUIREMENTS.	
GENERAL BUILDING HEIGHTS AND AREAS:	
THE EXISTING BUILDING HEIGHT AND AREA IS UNCHANGED BY RENOVATIONS. THE EXISTING BUILDING HEIGHT IS 34' AND 2 STORIES.	
THE BUILDING AREA ON MAIN LEVEL IS APPROXIMATELY: 14,400 SQUARE FEET.	
THE BUILDING AREA ON THE SECOND LEVEL IS APPROXIMATELY: 5,800 SQUARE FEET.	
TOTAL BUILDING AREA IS APPROXIMATELY: 20,000 SQUARE FEET.	
FIRE - RESISTANCE RATING REQUIREMENTS:	
EXISTING EXTERIOR BEARING WALLS MEET 2 HOUR RATING REQUIRED BY CONSTRUCTION TYPE III. EXCEPT AT NEW STAIR, INTERIOR WALLS IN RENOVATION WORK AREA ARE NOT REQUIRED TO BE RATED. AT THE NEW STAIR, WALLS ARE REQUIRED TO BE 1-HOUR RATED.	
OPENING PROTECTIVE FIRE PROTECTION RATINGS:	
THE EXISTING BUILDING DOES NOT HAVE RATED DOORS AND OPENINGS. NEW DOORS AND WINDOWS WILL BE UNRATED EXCEPT AT NEW STAIR. NEW STAIR DOORS ARE REQUIRED TO BE 1-HOUR RATED.	
OTHER FIRE PROTECTION REQUIREMENTS:	
1. THE ADDITION OF AN AUTOMATIC SPRINKLER SYSTEM IS REQUIRED PER THE STATE OF NORTH CAROLINA. SEE FIRE PROTECTION DRAWINGS AND SPECIFICATIONS.	
2. FIRE BLOCKING AND DRAFT STOPPING WILL BE PROVIDED AT NEW WOOD CONSTRUCTION.	
3. FIRE ALARM IS REQUIRED. SEE ELECTRICAL DRAWINGS.	
4. EMERGENCY LIGHTING AND EXIT SIGNS WILL BE PROVIDED. SEE ELECTRICAL DRAWINGS.	
5. PANIC HARDWARE WILL BE PROVIDED AT EXITS SERVING OCCUPIED AREAS EXCEEDING 50 PEOPLE.	
OCCUPANCY LOAD:	
THE OCCUPANCY LOAD OF THE MAIN LEVEL WILL REMAIN THE SAME.	
THE SECOND LEVEL WILL NOT BE OCCUPIED. PERIODICALLY MAINTENANCE STAFF WILL SERVICE MECHANICAL AND ELECTRICAL EQUIPMENT. THE OTHER SPACE WILL BE USED FOR STORAGE ONLY ACCESSIBLE BY STAFF.	
STRUCTURAL DESIGN INFORMATION:	
STRUCTURAL ALTERATIONS TO EXISTING STRUCTURE ARE LIMITED TO SLAB REPAIRS, NEW OPENING SUPPORTS, NEW WALLS (NON-BEARING), NEW FLOORS AT PREVIOUS OPENINGS, NEW STAIRS AND SHIPS LADDER, AND ADDITIONAL STRUCTURAL SUPPORTS FOR GYM & MECHANICAL EQUIPMENT. SEE STRUCTURAL DRAWINGS FOR SCOPE AND CODE REQUIREMENTS.	
MECHANICAL INFORMATION:	
THE MECHANICAL SYSTEM WILL BE REPLACED IN ITS ENTIRETY EXCEPT WHERE DUCT CAN BE REUSED. SEE MECHANICAL DRAWINGS FOR SCOPE AND CODE REQUIREMENTS.	
PLUMBING INFORMATION:	
THE PLUMBING SYSTEMS WILL BE REPLACED EXCEPT WHERE WASTE PIPING, SUPPLY PIPING, AND WATER HEATERS CAN BE REUSED. THE LOCATION OF SOME RESTROOMS AND THE KITCHEN HAVE BEEN ALTERED TO IMPROVE SAFETY AND ACCESS.	
THE BUILDING OCCUPANCE FOR PLUMBING FIXTURES IS 580 PERSONS. 2018 IBC 29.1 REQUIRES 3 MALE WATER CLOSETS (URINALS) WITH 2 LAVATORIES AND 5 FEMALE WATER CLOSETS WITH 2 LAVATORIES. THE DESIGN INCLUDES 5 MALE WATER CLOSETS (URINALS) WITH 3 LAVATORIES AND 5 FEMALE WATER CLOSETS WITH 3 LAVATORIES. THREE UNISEX TOILETS (INCLUDING A WATER CLOSET AND LAVATORY) SERVING MALE AND FEMALE ARE ALSO PROVIDED. TWO (2) PAIR OF DRINKING FOUNTAINS ARE PROVIDED AND 1 JANITOR SINK.	
ELECTRICAL INFORMATION:	
THE ELECTRICAL SYSTEM WILL BE REPLACED IN ITS ENTIRETY. EXISTING CONDUIT AND BOXES WILL BE REUSED WHERE POSSIBLE. ALL NEW ELECTRICAL EQUIPMENT AND WIRING SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF NFPA 70. SEE ELECTRICAL DRAWINGS FOR SCOPE AND CODE REQUIREMENTS.	
ENERGY CONSERVATION:	
PER INTERNATIONAL EXISTING BUILDING CODE SECTION 708 - ENERGY CONSERVATION THE ENTIRE BUILDING IS NOT REQUIRED TO COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL ENERGY CONSERVATION CODE. ONLY NEW CONSTRUCTION WITHIN THE ALTERATIONS WORK AREA IS REQUIRED TO MEET THE INTERNATIONAL ENERGY CONSERVATION CODE.	
SPECIAL INSPECTIONS:	
SEE STRUCTURAL DRAWINGS FOR REQUIREMENTS.	

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CONSULTANT

TOWN OF CANTON

ARMORY COMMUNITY CENTER RENOVATION

71 PENLAND ST. CANTON, NC 28716

DATE MARK DESCRIPTION

ISSUE: CONSTRUCTION DOCUMENTS
DATE: 11/12/2025
PROJECT NO: 23029
DRAWN BY: JH
CHECKED BY: JDH

LIFE SAFETY PLANS

LS101

PROJECT ABBREVIATIONS LEGEND	
AB ANCHOR BOLT AC AIR CONDITIONING(ED) ACS ACCESS ACP ACoustical(Al) ACP (ACP-) ACoustical CEILING PANEL ACT (ACT-) ACoustical CEILING TILE AD AREA DRAIN ADA AMERICANS WITH DISABILITIES ACT ADH ADHESIVE ADJ ADJUSTABLE ADF ABOVE FINISHED FLOOR AGRD AGGRADATION AHR AIR HANDLING UNIT ALU ALUMINUM ALUM (ALUM-) ALUMINUM AND AND(DIZE/D) ANN ANNUNCIATOR APPROX APPROXIMATE ARCH ARCHITECT(URAL) ASPH ASPHALT AUTO AUTOMATIC AWP (AWP-) ACoustical WALL PANEL	GA GALV GALVANIZED GB (GB-) GRAB BAR GBN GENERAL GFRG GLASS FIBER REINFORCED CONCRETE GL (GL-) GLASS GL BLK GLASS BLOCK GLU LAM GLUE LAMINATED WOOD GYP PLAS GYPSUM PLASTER GT GREASE TRAP GYP GYPSUM H HIGH HOSE BIBB HJ HOLLOW CORE HCP HANDICAPPED HDW HARDWOOD HWD HOLLOW METAL HO HOLD OPEN HORIZ HORIZONTAL HP HIGH POINT HR HOUR HT HEIGHT HTG HEATING HTR HEATER HVAC HEATING, VENTILATION, AIR CONDITIONING HW HYDRA NT INCAND INCANDESCENT INCL INCLUDE(D), INCLUDING INSUL INSULATION INSUL (INSUL-) INSULATION INT INTERIOR INTERM INTERMEDIATE INVT INVERT JAN JANITOR JAN CLO JANITOR'S CLOSET JT JOINT KD KNOCK(ED) DOWN KO KNOCK OUT KPL KITCHEN KPL (KPL-) KICK PLATE L LONG, LENGTH LAM LAMINATE(D) LAU LAUNDRY LAV LAVATORY LB(s) POUND(S) LF LINEAR FOOT, (FEET) LH LEFT HAND LV LOAD LVL COLUMN LLH LONG LEG HORIZONTAL LLV LONG LEG VERTICAL LNG LONGITUDE LP LONGITUDINAL LTG LOW POINT LIGHT LTG LIGHTING LVL LEVEL LWC LIGHT WEIGHT CONCRETE m METER MACH MACHINE MAINT MAINTENANCE MAS MASONRY MATL MATERIAL MAXIMUM MCB METAL CORNER BEAD MDO MEDIUM DENSITY OVERLAY MDF MEDIUM DENSITY FIBERBOARD MECH MECHANICAL MEMB MEMBRANE MEZZ MEZZANINE MEP MECHANICAL, ELECTRICAL, PLUMBING & FIRE PROTECTION MFR MANUFACTURER MH MANHOLE MIN MINIMUM MIRR (MIRR-) MIRROR MISC MISCELLANEOUS MKR BD MARKER BOARD mm MILLIMETER MO MOUNTED MTO MOUNTING MTS METAL MULL MULLION MVBL MOVABLE N NORTH NOT IN CONTRACT NO NUMBER NOM NOMINAL NTS NOT TO SCALE O/O OUT TO OUT OQ OVERALL OC ON CENTER OD OUTSIDE DIAMETER OFICI OWNER FURNISHED, CONTRACTOR INSTALLED OFIOI OWNER FURNISHED, OWNER INSTALLED OFD OVERFLOW DRAIN OFF OFFICE OH OVERHEAD OPH OPPOSITE HAND OPNG OPENING OPP OPPOSITE PA PUBLIC ADDRESS PBD PARTICLE BOARD PCC (PCC-) PRE-CAST CONCRETE PERF PERFORATED PERP PERPENDICULAR PGBD PEG BOARD PL PLATE PLAM PLASTIC LAMINATE (PLAM-) PLASTER PLBS PLUMBING PLYND PLYWOOD PNT (PNT-) PAINT PNL PANEL POL POLISHED PR PAIR PREFAB PREFABRICATE(D) PRKG PARKING PROJ PROJECT PROJ SCRN PROJECTION SCREEN (PROJ SCRN-) PROPERTY PROP POUNDS PER SQUARE PSF FOOT PSH (PSH-) PURSE SHELF PSI POUNDS PER SQUARE PT INCH PTD PARTITION PTN POLYVINYL CHLORIDE PVC PAVING QT (QT-) QUARRY TILE QTY QUANTITY
B/B BACK TO BACK BB BULLETIN BOARD BBD BASE BOARD BD BOARD BE (BE-) BENCH BITUM BITUMINOUS BLDG BUILDING BLKG BLOCKING BM BEAM BMC BENCHMARK BOT BOTTOM BOTF BOTTOM OF BR (BR-) BRICK BRG BEARING BRZ BRONZE BSZ BASEMENT BUR BUILT UP ROOFING CAB CABINET CATCH BASIN CEM CEMENT CG (CG-) CORNER GUARD CH (CH-) COAT HOOK CIP CAST IRON CIP CAST-IN-PLACE CIRC CIRCULATION CJC CONTROL JOINT CL CENTER LINE CLD CEILING CLO CLOSET CLR CLEAR CM CENTIMETER CMU CONCRETE MASONRY UNIT CLEANOUT COL COLUMN CONC CONCRETE CONF CONFERENCE CONN CONNECTION CONSTR CONSTRUCTION CONT CONTINUOUS CONTR CONTRACTOR COORD COORDINATE CORR CORRIDOR CPT (CPT-) CARRIERS CSK COUNTERSUNK CT (CT-) CENTER TILE CTR CENTER CU CUBIC CW COLD WATER CVC CLOSED CIRCUIT TELEVISION d PENNY (NAIL) DBL DEEP, DEPTH DOCT (DOCT-) DOUBLE DCT (DOCT-) DIAPER CHANGING TABLE DEG DEGREE DEMO DEMOLISH, DEMOLITION DEPT DEPARTMENT DET DETAIL DF (DF-) DRINKING FOUNTAIN DI DIAMETER DIA DIAGONAL DIFF DIFFUSER DIMC DIMENSION DISP DISPENSER DIV DIVISION DL DEAD LOAD DN DOWN DNR DAMPROOFING DOOR DOOR DWS DOWNSPOUT DW DISHWATER DWG DRAWING DWV DRAINAGE, WASTE AND VENT E EAST EACH EFS EXTERIOR INSULATION AND FINISH SYSTEM EJ EXPANSION JOINT EL ELEVATION ELAST ELASTOMERIC ELEC ELECTRICAL ELEV ELEVATOR EMER EMERGENCY ENCL ENCLOSURE ENGR ENGINEER ENTR ENTRANCE EO ELECTRIC OUTLET EOS EDGE OF SLAB EP ELECTRICAL PANEL EQ EQUAL EQUIP EQUIPMENT ES EMERGENCY SHOWER ETC ETCETERA EW EACH WAY EWC ELECTRIC WATER COOLER EXC EXCAVATION, EXCAVATE EXH EXHAUST EXIST EXISTING EXP EXPANSION EXPO EXPOSED EXT EXTERIOR, EXTERNAL F FACE OF F/F FACE TO FACE FA FIRE ALARM FAAP FIRE ALARM ANNUNCIATOR FAB (FAB-) FABRIC FABR FABRICATE(D) FACP FIRE ALARM CONTROL PANEL FC (FC-) FIRE CABINET FD FLOOR DRAIN FDN FOUNDATION FDT FIRE EXTINGUISHER FEC FIRE EXTINGUISHER CABINET FH FIRE HYDRANT FHC FIRE HOSE CABINET FHVC FIRE HOSE VALVE CABINET FHR FIRE HOSE RACK FN FINISHED FN FLR EL FINISHED FLOOR ELEVATION FIXT FIXTURE FLASH FLASHING FLEX FLEXIBLE FLR FLOOR FLUOR FLUORESCENT FOP FINISHED OPENING FP FIRE PROTECTION FRW FIRE RETARDANT TREATED WOOD FT FOOT FTG FOOTING FTR FINED TUBE RADIATION FURN FURNISH, FURNITURE FURG FURRING FUT FUTURE	GA GALV GALVANIZED GB (GB-) GRAB BAR GBN GENERAL GFRG GLASS FIBER REINFORCED CONCRETE GL (GL-) GLASS GL BLK GLASS BLOCK GLU LAM GLUE LAMINATED WOOD GYP PLAS GYPSUM PLASTER GT GREASE TRAP GYP GYPSUM H HIGH HOSE BIBB HJ HOLLOW CORE HCP HANDICAPPED HDW HARDWOOD HWD HOLLOW METAL HO HOLD OPEN HORIZ HORIZONTAL HP HIGH POINT HR HOUR HT HEIGHT HTG HEATING HTR HEATER HVAC HEATING, VENTILATION, AIR CONDITIONING HW HYDRA NT INCAND INCANDESCENT INCL INCLUDE(D), INCLUDING INSUL INSULATION INSUL (INSUL-) INSULATION INT INTERIOR INTERM INTERMEDIATE INVT INVERT JAN JANITOR JAN CLO JANITOR'S CLOSET JT JOINT KD KNOCK(ED) DOWN KO KNOCK OUT KPL KITCHEN KPL (KPL-) KICK PLATE L LONG, LENGTH LAM LAMINATE(D) LAU LAUNDRY LAV LAVATORY LB(s) POUND(S) LF LINEAR FOOT, (FEET) LH LEFT HAND LV LOAD LVL COLUMN LLH LONG LEG HORIZONTAL LLV LONG LEG VERTICAL LNG LONGITUDE LP LONGITUDINAL LTG LOW POINT LIGHT LTG LIGHTING LVL LEVEL LWC LIGHT WEIGHT CONCRETE m METER MACH MACHINE MAINT MAINTENANCE MAS MASONRY MATL MATERIAL MAXIMUM MCB METAL CORNER BEAD MDO MEDIUM DENSITY OVERLAY MDF MEDIUM DENSITY FIBERBOARD MECH MECHANICAL MEMB MEMBRANE MEZZ MEZZANINE MEP MECHANICAL, ELECTRICAL, PLUMBING & FIRE PROTECTION MFR MANUFACTURER MH MANHOLE MIN MINIMUM MIRR (MIRR-) MIRROR MISC MISCELLANEOUS MKR BD MARKER BOARD mm MILLIMETER MO MOUNTED MTO MOUNTING MTS METAL MULL MULLION MVBL MOVABLE N NORTH NOT IN CONTRACT NO NUMBER NOM NOMINAL NTS NOT TO SCALE O/O OUT TO OUT OQ OVERALL OC ON CENTER OD OUTSIDE DIAMETER OFICI OWNER FURNISHED, CONTRACTOR INSTALLED OFIOI OWNER FURNISHED, OWNER INSTALLED OFD OVERFLOW DRAIN OFF OFFICE OH OVERHEAD OPH OPPOSITE HAND OPNG OPENING OPP OPPOSITE PA PUBLIC ADDRESS PBD PARTICLE BOARD PCC (PCC-) PRE-CAST CONCRETE PERF PERFORATED PERP PERPENDICULAR PGBD PEG BOARD PL PLATE PLAM PLASTIC LAMINATE (PLAM-) PLASTER PLBS PLUMBING PLYND PLYWOOD PNT (PNT-) PAINT PNL PANEL POL POLISHED PR PAIR PREFAB PREFABRICATE(D) PRKG PARKING PROJ PROJECT PROJ SCRN PROJECTION SCREEN (PROJ SCRN-) PROPERTY PROP POUNDS PER SQUARE PSF FOOT PSH (PSH-) PURSE SHELF PSI POUNDS PER SQUARE PT INCH PTD PARTITION PTN POLYVINYL CHLORIDE PVC PAVING QT (QT-) QUARRY TILE QTY QUANTITY

SYMBOLS LEGEND	
SHEET NUMBER 	
ROOM NAMES AND NUMBERS 	
NORTH ARROW 	
VERTICAL ELEVATION TARGET 	
SPOT ELEVATION 	
DRAWING TITLE 	
BREAK LINE 	
DATUM POINT 	
KEY NOTE 	
SECTION TARGETS 	
ELEVATION TARGETS 	
DOOR NUMBERS 	
WINDOW TYPE SYMBOLS 	
DRAWING REVISION 	
PARTIAL PLAN AND DETAIL TARGETS 	
PAINT TAG 	
CEILING HEIGHT TAG 	
COLUMN GRID 	
CENTER LINE 	

REFLECTED CEILING PLAN LEGEND	
	ACP-1: 2"x2" SUSPENDED ACOUSTICAL PANEL CEILING SYSTEM TILE: KITCHEN LAY-IN PANELS MFR: USG, TILE: 24" X 24" X 1"; NRC: 0.75; CAC: 30; COLOR: WHITE; EDGE: SLT; LR: 0.90; GRID: DX GRID COLOR: WHITE; GRID PROFILE: D
	ACP-2: 2"x2" SUSPENDED ACOUSTICAL PANEL CEILING SYSTEM TILE: KITCHEN LAY-IN PANELS MFR: USG, TILE: 24" X 24" X 1"; NRC: 0.75; CAC: 35; COLOR: WHITE; EDGE: SQ; LR: 0.90; GRID: DX GRID COLOR: WHITE; GRID PROFILE: A
	GB-1: SUSPENDED GYPSUM BOARD CEILING
	2 x 4 LIGHT FIXTURE
	2 x 2 LIGHT FIXTURE
	1 x 4 LIGHT FIXTURE
	LINEAR PENDANT LIGHT FIXTURE
	STRIP LIGHT FIXTURE
	TRACK LIGHT FIXTURE(S)
	PENDANT LIGHT FIXTURE
	DOWN LIGHT
	SUPPLY AIR DIFFUSER
	RETURN AIR DIFFUSER
	CEILING ELEVATION ABOVE FINISHED FLOOR / MATERIAL
	CEILING CASSETTE MINI - SPLIT. SEE MECHANICAL AND ELECTRICAL DRAWINGS. CENTER CASSETTE IN FOUR CEILING TILES.
	EMERGENCY EXIT SIGN

FLOOR PLAN LEGEND	
	COLUMN GRID
	NORTH ARROW
	FEMA NOTE
	ROOM TAG
	SECTION / ELEVATION CALLOUT
	ELEVATION TARGET
	CENTER LINE
	NEW DOOR WITH DOOR TAG
	EXISTING DOOR
	FIRE EXTINGUISHER CABINET FEC(R) RECESSED FEC(S) SEMI RECESSED FEC(F) FLUSH MOUNTED FEB BRACKET MOUNTED
	FLOOR DRAIN HIGH & LOW ELECTRIC WATER COOLER W/ BOTTLE FILLER
WALL LEGEND	
	EXISTING WALL CONCRETE
	CONCRETE MASONRY
	METAL STUD WALL WITH GYPSUM WALL BOARD
	1 HOUR RATED
	2 HOUR RATED
	3 HOUR RATED
WALL TYPES LEGEND	
	FACING F Facing - 7/8" METAL HAT CHANNEL W/ 5/8" GWB G Gypsum - 5/8" GWB
	STRUCTURE C Concrete M Masonry S Metal Stud SW Shear Wall TP Toilet Partition W Wood Stud
	WALL MODIFIER A Abuse resistant P Full height - extend to structure above Partial height - extend six inches above ceiling S Sound - attenuation batt insulation
CASEWORK LEGEND	
	DEPTH (INCHES) HEIGHT (INCHES) WIDTH (INCHES) MILLWORK TYPE
	MILLWORK TYPE B BASE CABINET BS BASE SHELF C CUBIE W WALL CABINET WD WARDROBE WS WALL SHELF
	NOTES: 1. SECTIONS AND DETAILS IN ACCORDANCE WITH A.U.I. STANDARDS. SEE SPECIFICATIONS FOR QUALITY GRADE. 2. SEE ELEVATIONS FOR SHELVING AND DOOR CONFIGURATIONS.

TOILET ACCESSORY LEGEND	
	PTD PAPER TOWEL DISPENSER
	TTD TOILET TISSUE DISPENSER
	GB2 42" GRAB BAR
	GB36 36" GRAB BAR
	GB18 18" GRAB BAR (VERTICAL MOUNT)
	M1 24" x 36" MIRROR
	M2 24" x 48" MIRROR
	CH COAT HOOK
	MOP MOP RACK
	SND SANITARY NAPKIN DISPOSAL UNIT
	PDW AUTOMATIC SOAP DISPENSER
	EWC ELECTRIC WATER COOLER
	DGS DIAPER CHANGING STATION (FOLDING WALL MOUNTED UNIT)
	WS WALL MOUNTED STAINLESS STEEL BATHROOM SINK (18" x 4" x 5")
	FD FLOOR DRAIN. SEE "P" DRAWINGS

TOILET ACCESSORY NOTES	
1.	GC SHALL FURNISH AND INSTALL 2x4 WOOD BLOCKING AS REQUIRED TO SECURELY FASTEN ALL TOILET ACCESSORIES.
TOILET NOTES	
1.	OUTSIDE CORNER OF CMU WALLS SHALL BE BULLNOSED UNLESS NOTED OTHERWISE.

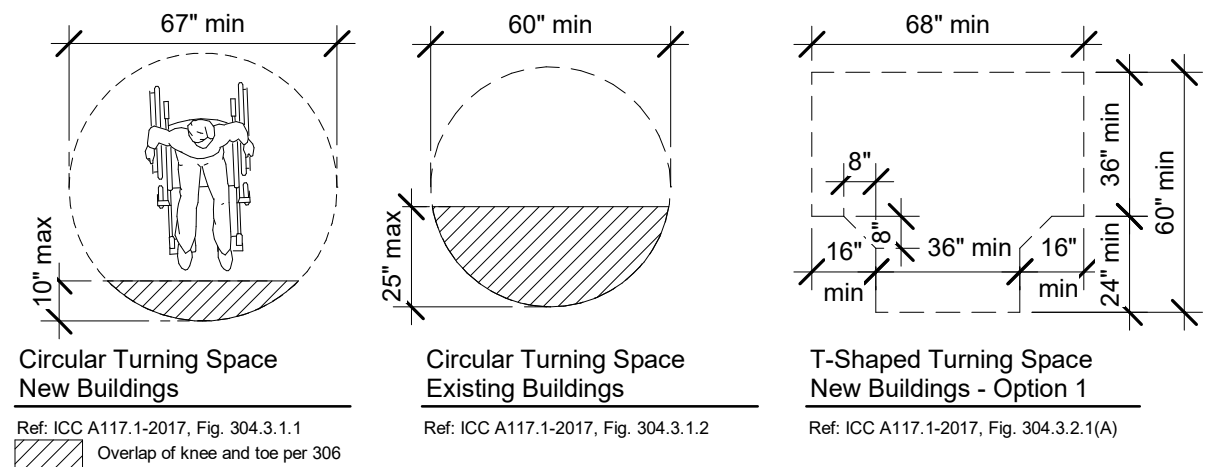
DOOR ABBREVIATION LEGEND	
	HM HOLLOW METAL
	SCW SOLID CORE WOOD
	TEMP TEMPERED
	PR PAIR
	ALUM ALUMINUM
	FG DEPLOYABLE FLOOD GATE. SEE SPECS

PROJECT NOTES	
CIRCULATION C-1. SEAL ALL STAIR STRINGERS AND LANDINGS TO THE WALL WHERE A TIGHT UNIFORM FIT HAS NOT BEEN FURNISHED AT THE WALL AND STAIR STRINGER CONDITION.	
COORDINATION CO-1. THE CUTTING OF EXISTING CONSTRUCTION AND FINISHES SHALL BE REPAIRED WHERE CUT OR DAMAGED BY OTHER PORTIONS OF THE WORK BY TRADES PEOPLE WHO ARE BY TRAINING AND EXPERIENCE QUALIFIED TO MAKE SUCH REPAIRS. SHALL BE RESPONSIBLE FOR THE REPAIRS. CO-2. PROVIDE WOOD BLOCKING IN STUD OR OTHER HOLLOW WALLS AND OR SHEET METAL PLATES FOR ATTACHMENT OF WALL MOUNTED ACCESSORIES SUCH AS SHELVING, CASEWORK, GRAB BARS, TOILET ACCESSORIES, WALL MOUNTED LIGHT FIXTURES, BENCHES, TOILET RODS, TELEVISIONS AND AV EQUIPMENT, SECURITY CAMERAS, SLIDING DOOR TRACKS, MARKER BOARDS, MIRRORS, ETC. WOOD BLOCKING SHALL BE FIRE RATED WHERE REQUIRED BY CODE OR THE CODE OFFICIAL. CO-3. ALL WALL MOUNTED DEVICES SUCH AS ELECTRICAL RECEPTACLE PLATES, ELECTRICAL SWITCH PLATES, THERMOSTATS, LIGHT FIXTURES, DATA PLATES, SIGNAGE, FIRE ALARM PULL STATIONS, FIRE ALARM HORNS AND STROBES, MOTION DETECTORS, ETC. SHALL BE MOUNTED LEVEL AND PLUMB, WHERE DEVICES ARE ADJACENT TO ONE ANOTHER SUCH AS LIGHT SWITCHES, RECEPTACLES, T-SISTS, ETC. THE TOP OF THE DEVICE SHALL ALIGN WITH THE ADJACENT DEVICE. CO-4. INFORMATION PERTINENT TO THE SCOPE OF WORK MAY OCCUR IN OTHER PORTIONS OF THE CONTRACT DOCUMENTS. REFER TO CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, ETC. FOR ADDITIONAL NOTES. ALL NOTES ARE TO BE REVIEWED AND APPLIED TO RELATED BUILDING COMPONENTS. NOTES ON ANY ONE SHEET ARE TO BE APPLIED TO RELATED DRAWINGS AND DETAILS. CO-5. THE CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL DRAWINGS, ETC., SUPPORT THE ARCHITECTURAL DRAWINGS IN DEFINING THE SCOPE OF WORK OF THE CONTRACT DOCUMENTS. DISCREPANCY BETWEEN THE ARCHITECTURAL AND THE ENGINEERING DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE COMMENCING WITH THE WORK. ANY WORK INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER. CO-6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURATE PLACEMENT OF THE BUILDINGS ON THE SITE. CO-7. DO NOT SCALE THE DRAWINGS. THE DRAWINGS ARE NOT NECESSARILY TO SCALE. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE PRIOR TO THE START OF CONSTRUCTION. IF DISCREPANCIES ARE FOUND, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION BEFORE COMMENCING WITH THE WORK. CO-8. THE CONTRACTOR SHALL VISIT THE SITE AND BE KNOWLEDGEABLE OF CONDITIONS THEREON. HE SHALL INVESTIGATE, VERIFY AND BE FAMILIAR WITH CONDITIONS OF THE PROJECT. HE SHALL NOTIFY THE OWNER OF ANY CONDITIONS REQUIRING MODIFICATION BEFORE PROCEEDING WITH THE WORK. CO-9. PROVIDE SHOP DRAWINGS AND COORDINATION DRAWINGS TO GUIDE THE FIELD INSTALLATION OF ALL SYSTEMS. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL NOT USE THESE DIAGRAMMATIC CONTRACT DOCUMENTS AS THEIR SHOP AND COORDINATION DRAWINGS. CO-10. IT IS THE DESIGN INTENT THAT ALL DEVICES MOUNTED ON WALLS SUCH AS LIGHT SWITCHES, ELECTRICAL RECEPTACLES, THERMOSTATS, TEMPERATURE SENSORS, SECURITY CARD READERS, MOTION DETECTORS, OCCUPANCY SENSORS, FIRE ALARM DEVICES, DIMMING CONTROLS, ETC. SHALL BE FURNISHED IN THE SAME COLOR. THE COLOR OF THESE DEVICES FOR THIS PROJECT SHALL BE COORDINATED WITH THE ARCHITECT. THE CONTRACTOR SHALL COORDINATE THIS REQUIREMENT WITH ALL TRADES. CO-11. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE SHOWN. WHERE SPECIFICS DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. CO-12. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE CODES. ENGINEERING SHALL CONFORM TO ALL APPLICABLE MUNICIPAL, STATE AND FEDERAL REGULATIONS HAVING JURISDICTION INCLUDING ACCESSIBILITY STANDARDS AND ADA REQUIREMENTS. DIMENSIONING D-1. UNLESS OTHERWISE NOTED, DIMENSIONS ARE FROM COLUMN CENTERLINE, CENTER OF INTERIOR STUD, FACE OF EXTERIOR STUD, FACE OF MASONRY AND FACE OF CONCRETE WALLS. D-2. ALL NEW WORK ADJOINING EXISTING CONSTRUCTION SHALL ALIGN WITH AND MATCH EXISTING CONSTRUCTION UNLESS OTHERWISE DIMENSIONED OR DETAILLED. NEW GYPSUM BOARD CONSTRUCTION MEETING EXISTING CONSTRUCTION IN THE SAME PLANE SHALL BE FLUSH WITH THE EXISTING MATERIALS AND SHOW NO VISIBLE JOINT. D-3. FINISH FLOOR ELEVATIONS ARE TO TOP OF EXISTING FLOOR FINISH, UNLESS NOTED OTHERWISE. ENVELOPE E-1. ALL EXTERIOR JOINTS AROUND WINDOW AND DOOR FRAMES, BETWEEN WALLS AND FOUNDATIONS, BETWEEN WALLS AND THE ROOF, BETWEEN WALL PANELS, AT PENETRATIONS OF UTILITIES THROUGH THE ENVELOPE, SHALL BE SEALED OR WEATHER-STRIPPED TO PREVENT AIR LEAKAGE / INFILTRATION. E-2. WHETHER OR NOT SHOWN OR SPECIFIED, PROVIDE FOIL FACED MINERAL FIBER OR PLASTIC INSULATION BETWEEN ALL EXTERIOR AND INTERIOR HEATED SPACES INCLUDING INACTIVE PORTIONS OF LOUVERS, ETC. PLASTIC INSULATION SHALL BE ENCLOSED TO PREVENT TOXIC SMOKE DEVELOPMENT. E-3. PROVIDE PHYSICAL METAL SUPPORT FOR FLEXIBLE FLASHING TO MAINTAIN POSITIVE DRAINAGE IN CAVITY WALLS OR ACROSS OTHER VOIDS. E-4. FORM END DAMS IN FLASHING AT WINDOW & DOOR HEADS AND OTHER LOCATIONS AS REQUIRED TO DIRECT THE FLOW OF WATER TO THE EXTERIOR. E-5. DO NOT SEAL WEEPS OR FLASHING TERMINATIONS TO THE EXTERIOR. FINISHES F-1. ENSURE THAT WALL FINISH MATERIALS SUCH AS PAINT ARE COMPATIBLE WITH SEALANT MATERIAL UTILIZED IN THE WALL CONSTRUCTION. F-2. PROVIDE ACCESS PANELS IN CEILINGS WHERE REQUIRED FOR ACCESS TO ALL EQUIPMENT AND OR DEVICES. COORDINATE THIS REQUIREMENT WITH THE WORK OF OTHER TRADES SHOWN ON THE DRAWINGS AND IN THE PROJECT MANUAL. F-3. IN AREAS IDENTIFIED BY THE FINISH SCHEDULE TO BE PAINTED AND WHERE NO CEILING IS INDICATED, PAINT SHALL EXTEND TO THE BOTTOM OF THE FLOOR OR ROOF STRUCTURE (TYPICAL). REFER TO THE FINISH SCHEDULE FOR PAINTING OF EXPOSED STRUCTURE. GLAZING G-1. WHETHER OR NOT EXPLICITLY INDICATED, ALL GLAZING SHALL BE SAFETY GLAZING WHEN WITHIN 18" OF THE FLOOR OR WITHIN 36" HORIZONTAL DISTANCE FROM ANY DOOR. G-2. PROVIDE HEAT STRENGTHENED AND OR TEMPERED GLASS AS RECOMMENDED BY GLASS MANUFACTURER OR AS REQUIRED BY CODE FOR EACH APPLICATION. MISCELLANEOUS M-1. PROVIDE BUILDING ADDRESS NUMBERS FOR THE BUILDING IN THE SCOPE OF WORK. SIGNAGE SPECIFICATION AND LOCATION OF BUILDING ADDRESS NUMBERS SHALL BE COORDINATED WITH THE ARCHITECT. M-2. THE UNSUPPORTED ARM-OVER LENGTH TO A SPRINKLER HEAD DROP, OR SPRIG-UP SHALL NOT EXCEED 24" FOR STEEL PIPE. M-3. SHOULD THE CONTRACTOR ENCOUNTER ANY MATERIALS IDENTIFIED AS HAZARDOUS MATERIALS HE SHALL IMMEDIATELY REFER TO THE GENERAL CONDITIONS AND NOTIFY THE OWNER AND THE ARCHITECT. M-4. ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO AVOID MOLECULAR BREAKDOWN. STRUCTURAL S-1. SEE STRUCTURAL DRAWINGS FOR STRUCTURAL MEMBER SIZE & SEISMIC BRACING REQUIREMENTS. S-2. THE CONTRACTOR SHALL VERIFY ALL EXISTING ELEVATIONS AND ADVISE THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO THE START OF WORK. S-3. REFER TO THE STRUCTURAL DRAWINGS FOR LIGHT GAGE FRAMING REQUIREMENTS FOR ALL EXTERIOR WALL FRAMING CONDITIONS DETAILS SHALL GOVERN IF A CONFLICT SHOULD OCCUR BETWEEN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS IN REGARDS TO EXTERIOR WALL FRAMING. S-4. REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL MEMBER SIZES. WALLS W-1. ALL CMU WALLS AND SOUND RATED PARTITIONS SHALL EXTEND FROM FINISH FLOOR TO WHERE THEY MAY BE SEALED. SUCH AS THE UNDERSIDE OF THE STRUCTURE OR DECK AND SHALL BE ENTIRELY SEALED OFF WITH NON-HARDENING CAULK UNLESS NOTED OTHERWISE. ALL PENETRATIONS, SUCH AS PIPING, CONDUITS, DUCTS, ETC., IN SUCH SEALED OFF WALLS OR PARTITIONS, SHALL IN THEMSELVES BE PACKED WITH MINERAL WOOL FIBER INSULATION AND SEALED OFF WITH NON-HARDENING CAULK ALONG THE PERIMETER AS REQUIRED. ENSURE THAT THESE PENETRATIONS ARE SEALED WITH APPROVED MATERIALS IN ACCORDANCE WITH A.U.I. DESIGN ASSEMBLY FOR THE WALL RATING. W-2. ALL SOUND RATED PARTITIONS (STC) WALLS OR PARTITIONS SHALL HAVE AN ACOUSTICAL GASKET AND OR ACOUSTICAL SEALANT AT THE TOP, BOTTOM AND SIDES WHERE A SOUND LEAK COULD EXIST. ALL PENETRATIONS THROUGH SUCH PARTITIONS SHALL BE GASKETED AND SEALED ALONG THE PENETRATION PERIMETER. W-3. ALL FIRE AND OR SMOKE PARTITIONS, FIRE BARRIERS AND FIRE WALLS SHALL EXTEND FROM FINISH FLOOR TO WHERE IT MAY BE SEALED. SUCH AS THE UNDERSIDE OF THE STRUCTURE OR DECK AND BE ENTIRELY SEALED OFF WITH FIRE SAFING MATERIALS PER AN APPROVED FIRE RATED ASSEMBLY IN ACCORDANCE WITH U.I. DESIGN. ALL RATED AND SMOKE WALLS SHALL BE LABELED WITHING 10'-0" WITH 3" HIGH STENOILED LETTERING WITH WORDING SUCH AS "2-HOUR RATED FIRE BARRIER, PROTECT ALL OPENINGS OR VERBAGE APPORTIONED BY THE LOCAL BUILDING OFFICIAL OR FIRE MARSHAL. LETTERING AND ARROWS MAY ALSO BE UTILIZED TO INDICATE THE DIRECTION OF THE FIRE RATING. W-4. METAL STUDS SHALL BE ATTACHED WITH TWO SCREWS AT 16" O.C. IN THE BOTTOM AND TOP TRACKS UNLESS DEFLECTION TRACKS ARE UTILIZED UNLESS NOTED OTHERWISE. W-5. ALL INTERIOR WALLS ARE TO BE 3/8" METAL STUDS WITH ONE LAYER OF 5/8" GYPSUM WALLBOARD UNLESS NOTED OTHERWISE BY A WALL TYPE. W-6. IN THE CASE OF NON-RATED PARTITIONS METAL STUDS AND GYPSUM BOARD SHALL BE EXTENDED THE SAME AS RATED PARTITIONS UNLESS NOTED OTHERWISE BY A WALL TYPE OR NOTE. IN LOCATIONS WHERE GYPSUM BOARD SHALL NOT BE INDICATED TO EXTEND TO STRUCTURE, GYPSUM BOARD SHALL EXTEND TO 6" ABOVE FINISH CEILING. W-7. IN ALL LOCATIONS WHERE CEILINGS ARE NOT SCHEDULED ON ONE SIDE OR BOTH SIDES OF A WALL, THE PARTITION SHALL EXTEND UP TO THE UNDERSIDE OF THE STRUCTURE. W-8. WALL ACCESSORIES SUCH AS FIRE EXTINGUISHER CABINETS, PAPER TOWEL DISPENSERS, ETC. INSTALLED IN RATED WALLS SHALL BE INSTALLED IN A MANNER WHICH WILL NOT REDUCE THE FIRE RATING OF THE WALL. W-9. ALL PENETRATIONS THROUGH FLOOR SLABS SUCH AS PIPING, CONDUITS, ETC. SHALL BE SEALED WITH COMPATIBLE MATERIALS AND SHALL SEAL AGAINST WATER PENETRATION RATED MATERIALS TO BE USED AT RATED ASSEMBLIES TO MAINTAIN SPECIFIED RATING. W-10. ALL OUTSIDE CORNERS AND END OF GYPSUM WALL PARTITIONS SHALL HAVE METAL CORNER BEADS OR METAL TRIM UNLESS NOTED OTHERWISE. W-11. EXPOSED CONCRETE WALLS SHALL BE POINTED UP, RUBBED AND PATCHED AS REQUIRED, PRIOR TO THE APPLICATION OF PRIME PAINTING IN ALL LOCATIONS. POINTING UP MATERIALS SHALL BE THE SAME TYPE OF MATERIAL AS THE WALL CONSTRUCTION. W-12. UNLESS NOTED OTHERWISE, ALL DOOR AND CASING OPENED FRAMES TO BE MOUNTED 6" OFF OF ADJACENT WALL AT DRYWALL PARTITIONS AND 8" OFF OF ADJACENT WALL AT MASONRY PARTITIONS OR CENTERED ON WALL. STRIKE SIDE OF DOOR MUST MEET ADA REQUIREMENTS IN ALL LOCATIONS. W-13. PROVIDE "TYPE X" GYPSUM WALLBOARD AT RATED PARTITIONS, UNLESS NOTED OTHERWISE.	

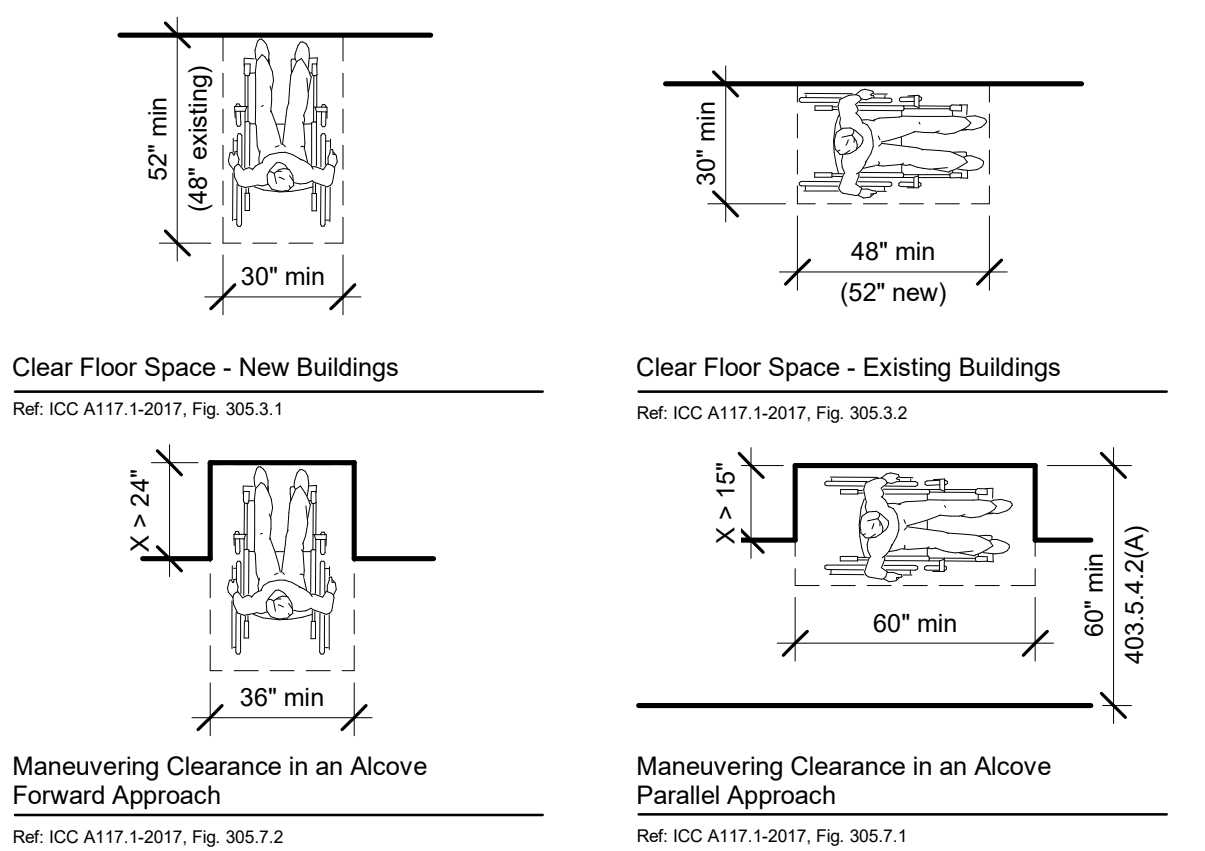
F	CRAIG GAULDEN DAVIS PBK 19 Washington Park Greenville, SC 29601 Phone 864.242.0761 Fax 864.501.9945 E-mail cgd@cgdarch.com						
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	TOWN OF CANTON						
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	ARMORY COMMUNITY CENTER RENOVATION						
	71 PENLAND ST. CANTON, NC 28716						
B	<table><tr><th>DATE</th><th>MARK</th><th>DESCRIPTION</th></tr><tr><td></td><td></td><td></td></tr></table>	DATE	MARK	DESCRIPTION			
DATE	MARK	DESCRIPTION					
	ISSUE: CONSTRUCTION DOCUMENTS DATE: 11/12/2025 PROJECT NO: 23029 DRAWN BY: JH CHECKED BY: JDH						
A	GENERAL NOTES AND LEGENDS G101						

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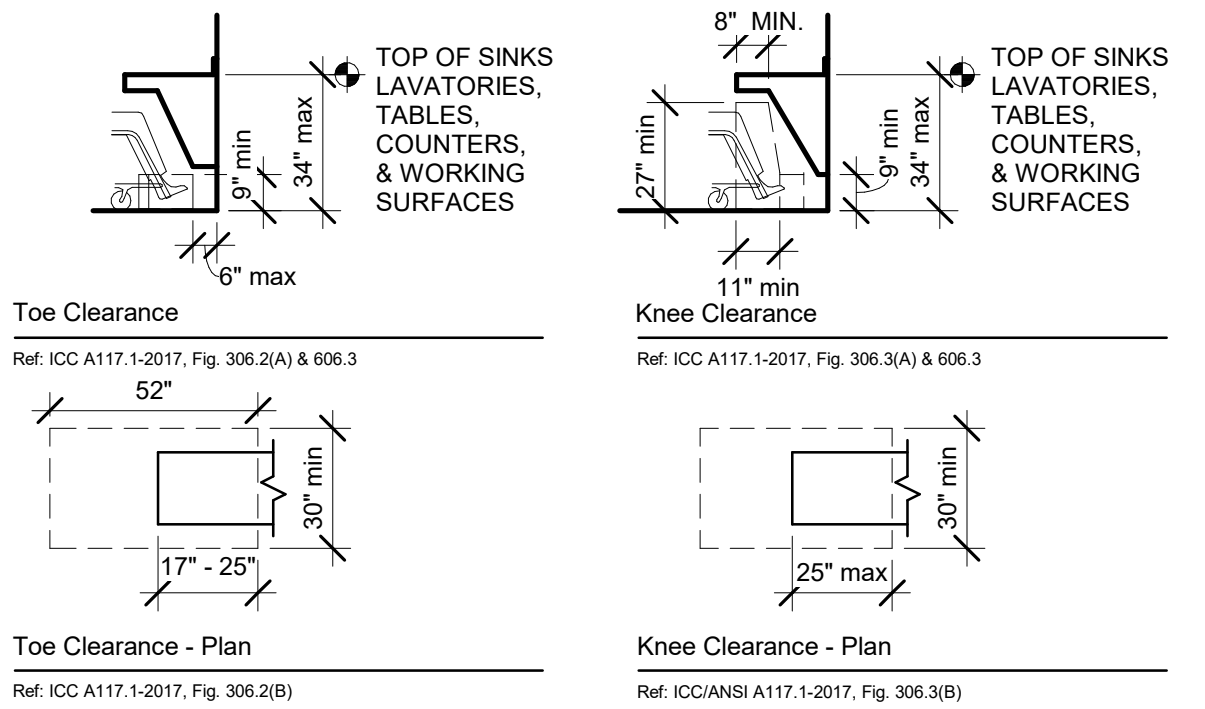
304 WHEELCHAIR TURNING SPACE



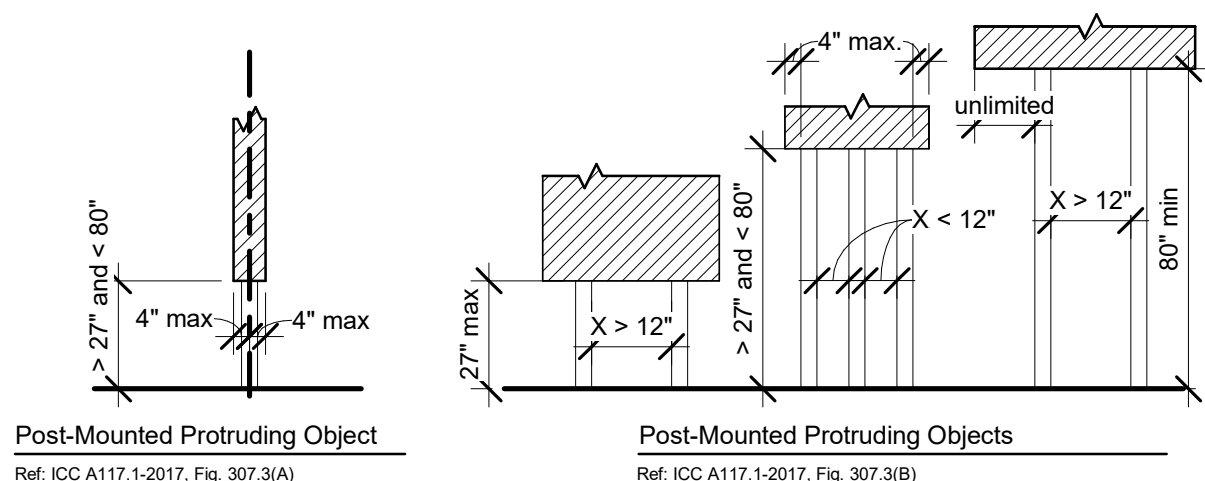
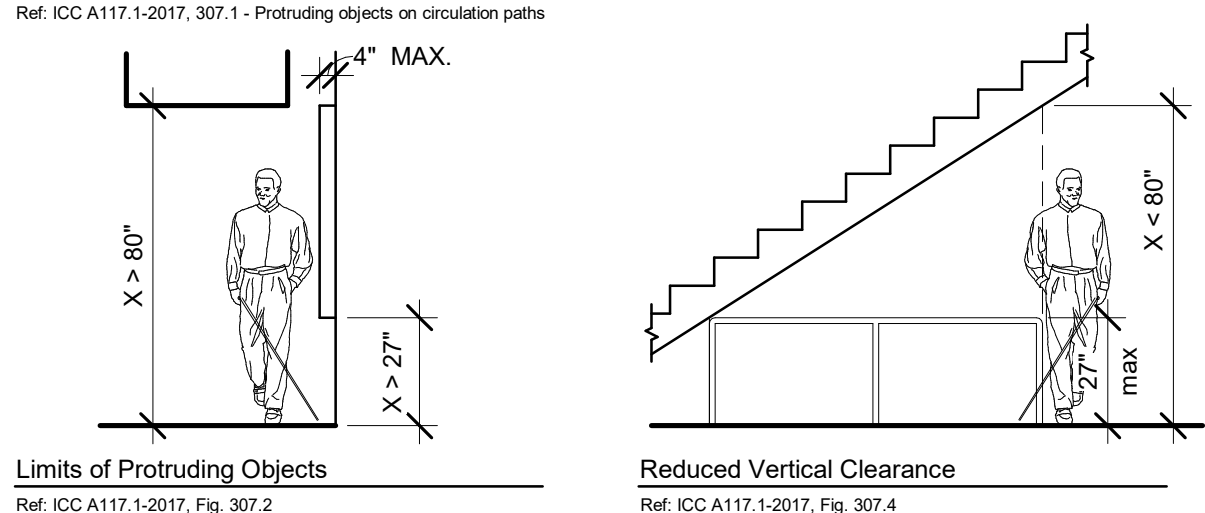
305 CLEAR FLOOR SPACE



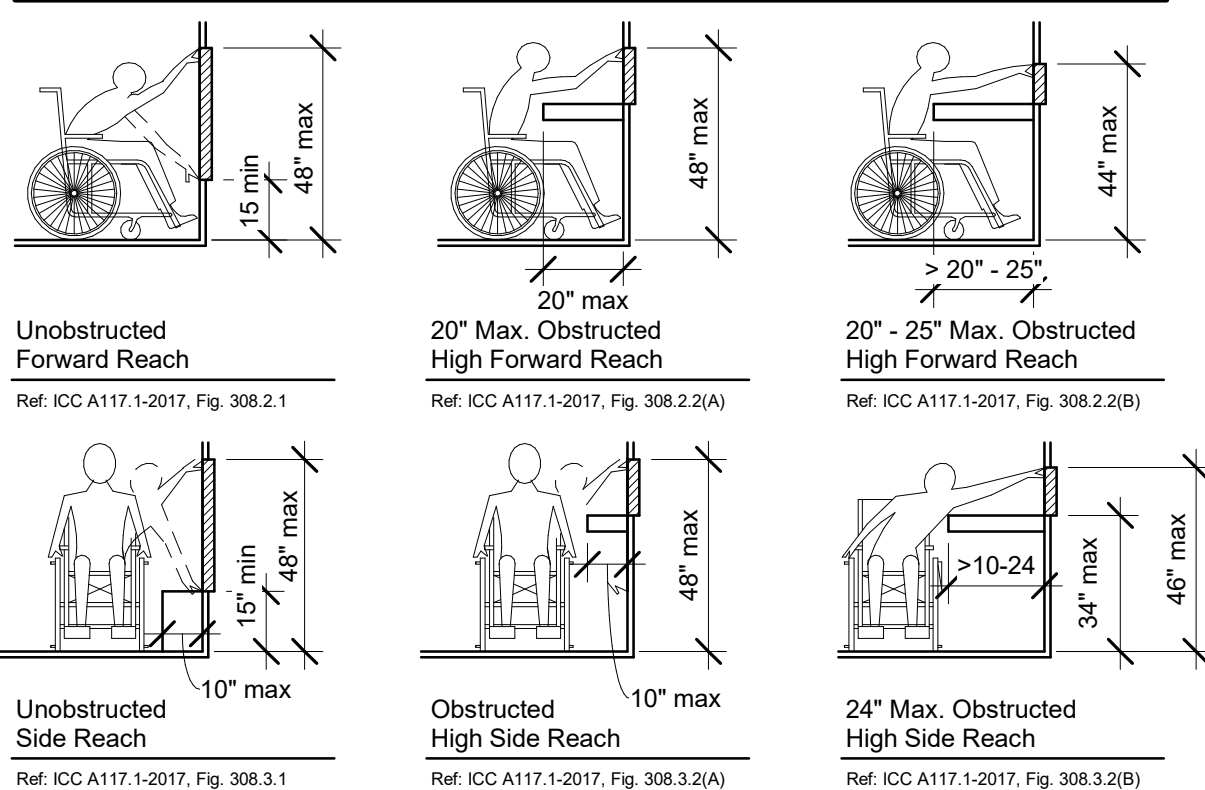
306 KNEE & TOE CLEARANCE; 606 LAVATORIES & SINKS; 902 SEATING AT TABLES, COUNTERS, & WORK SURFACES



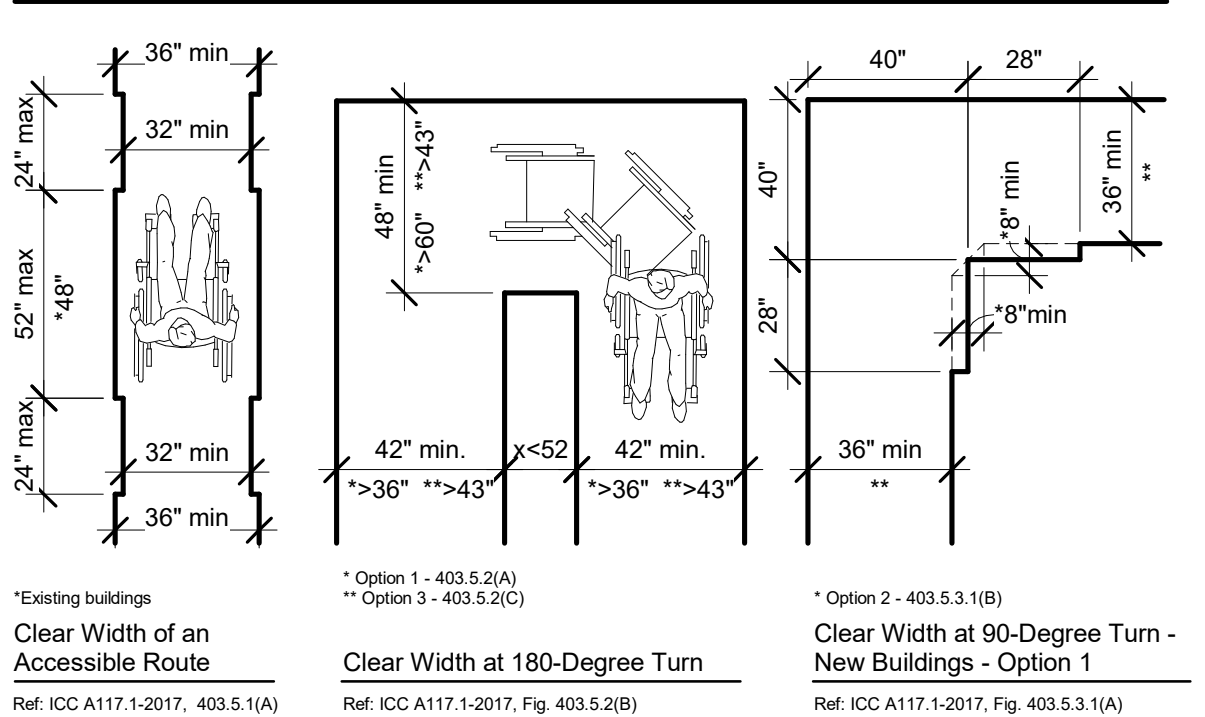
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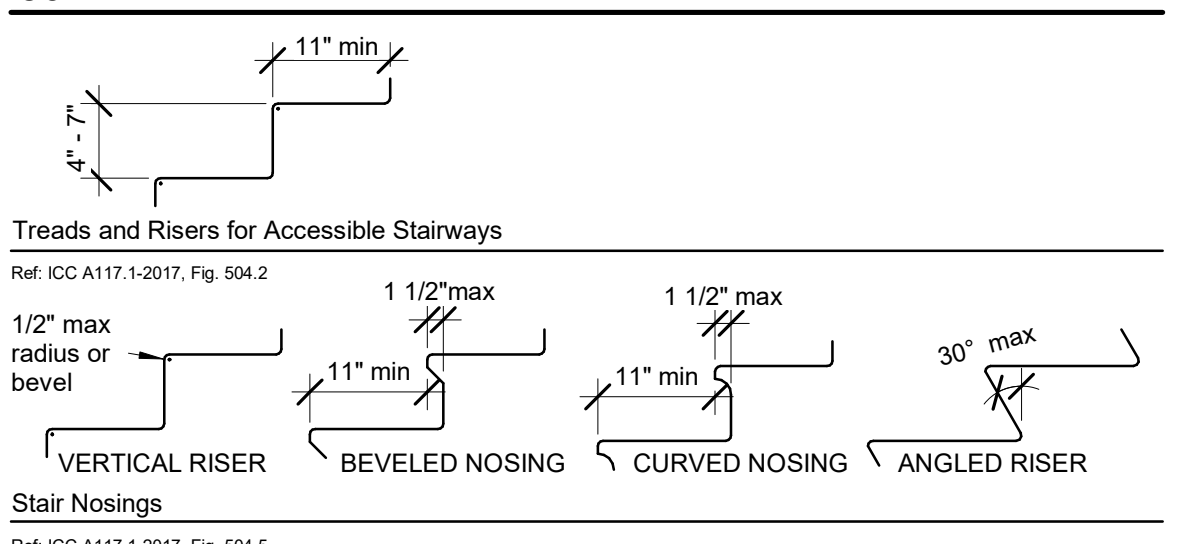
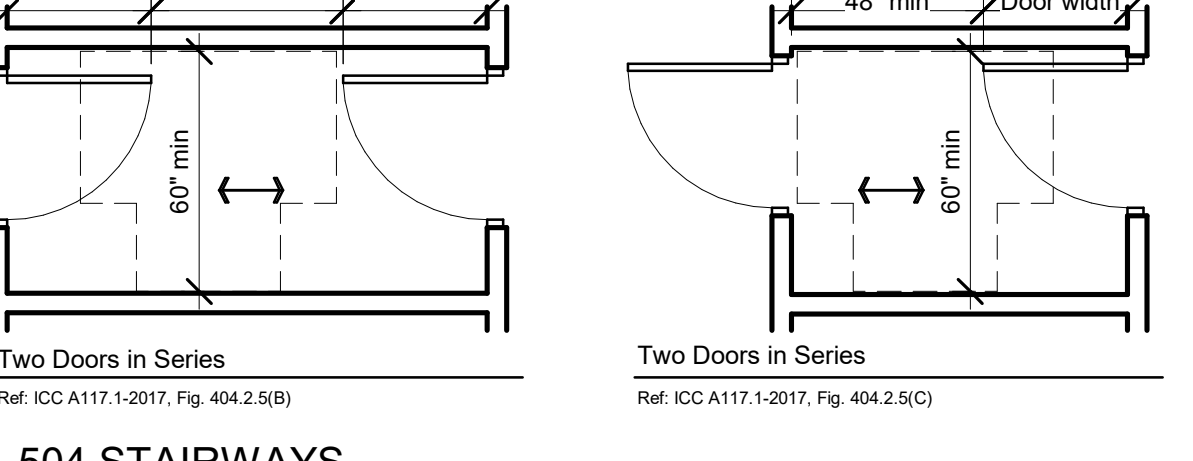
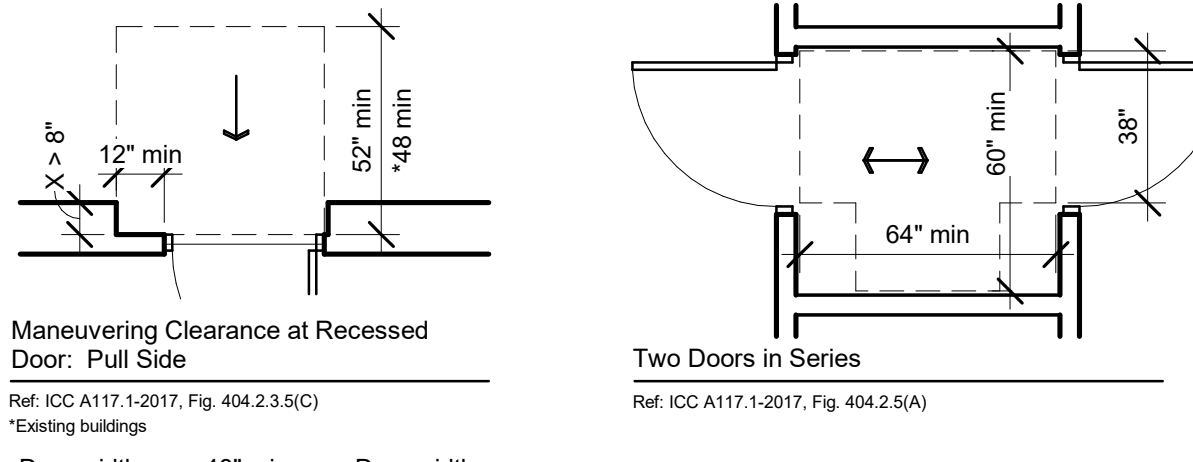
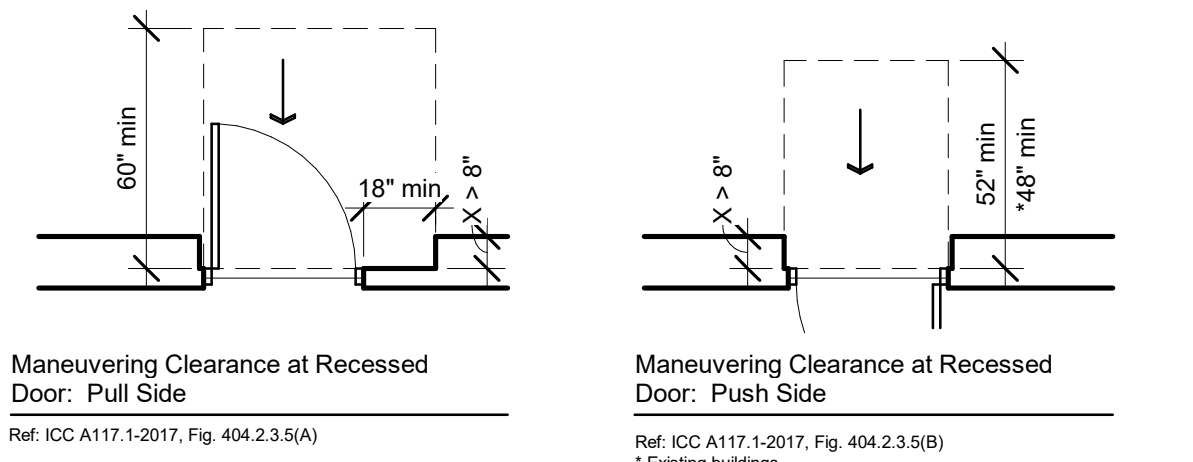
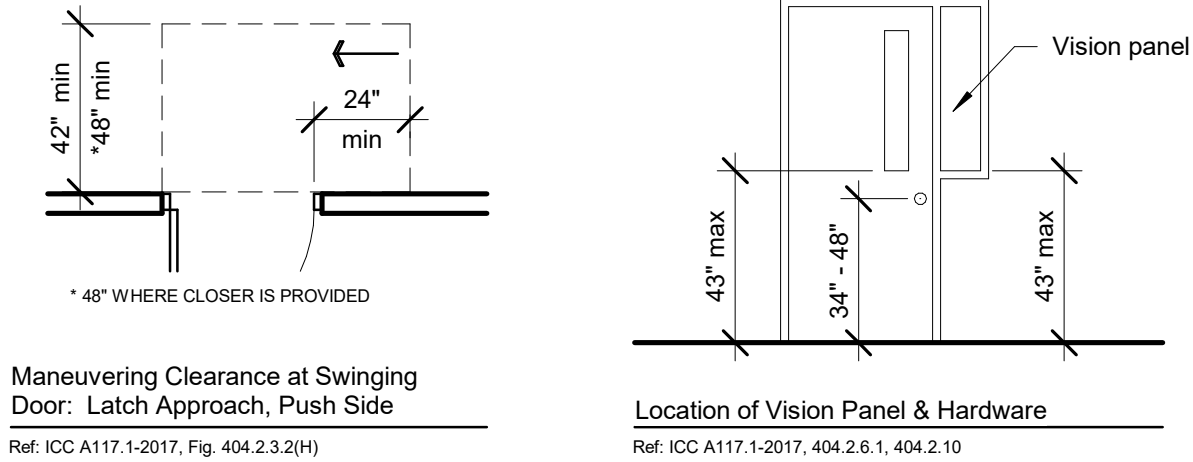
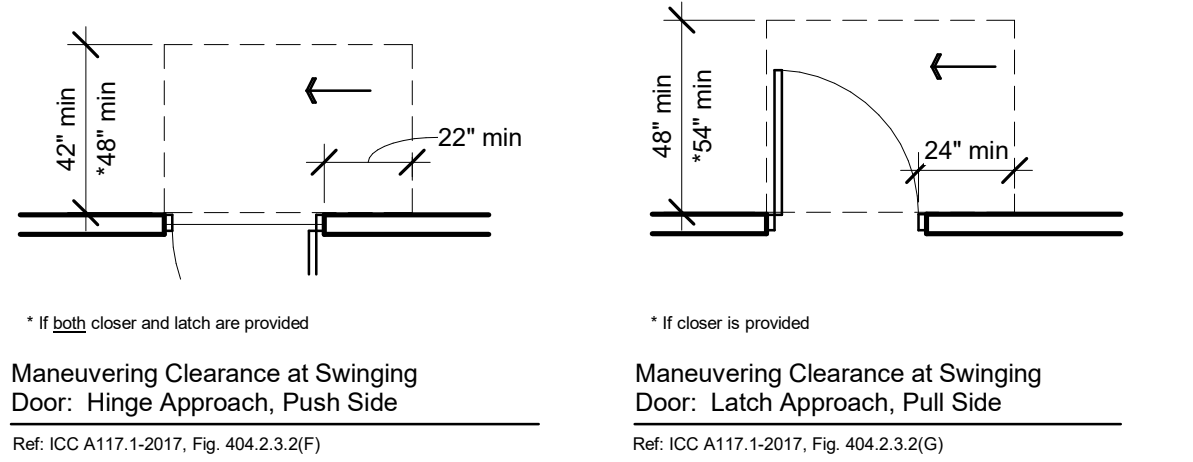
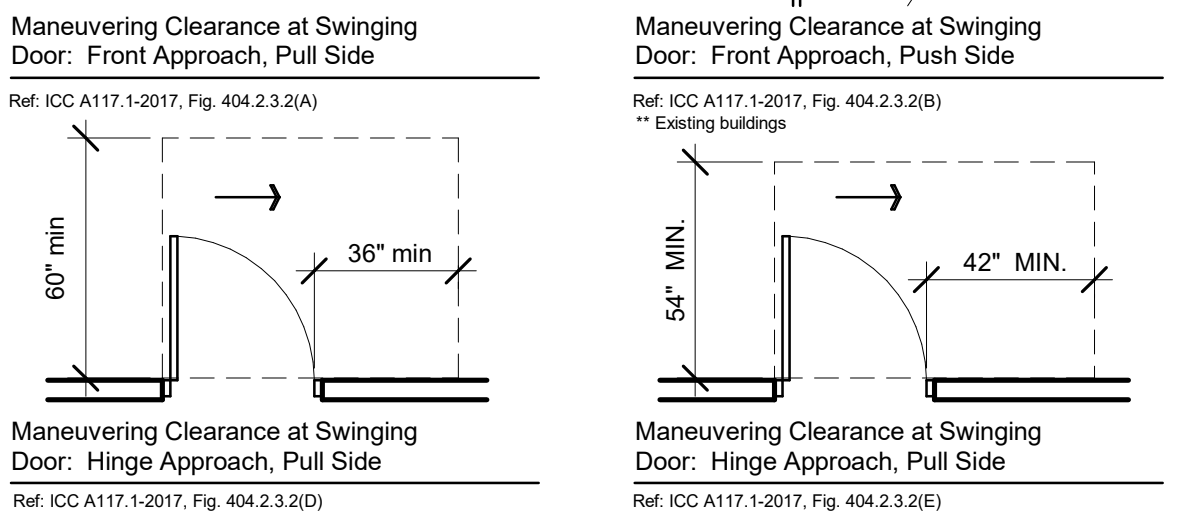
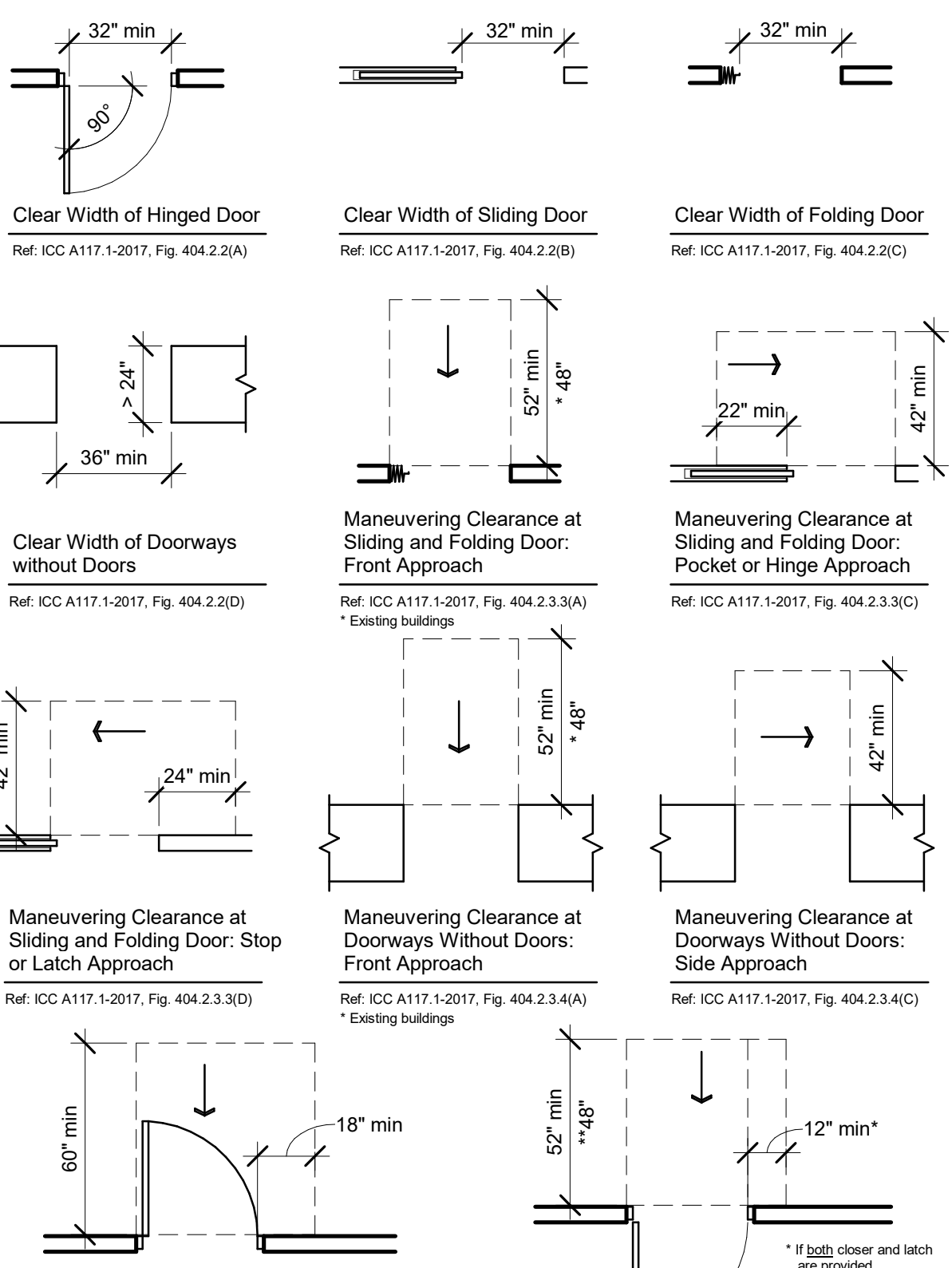
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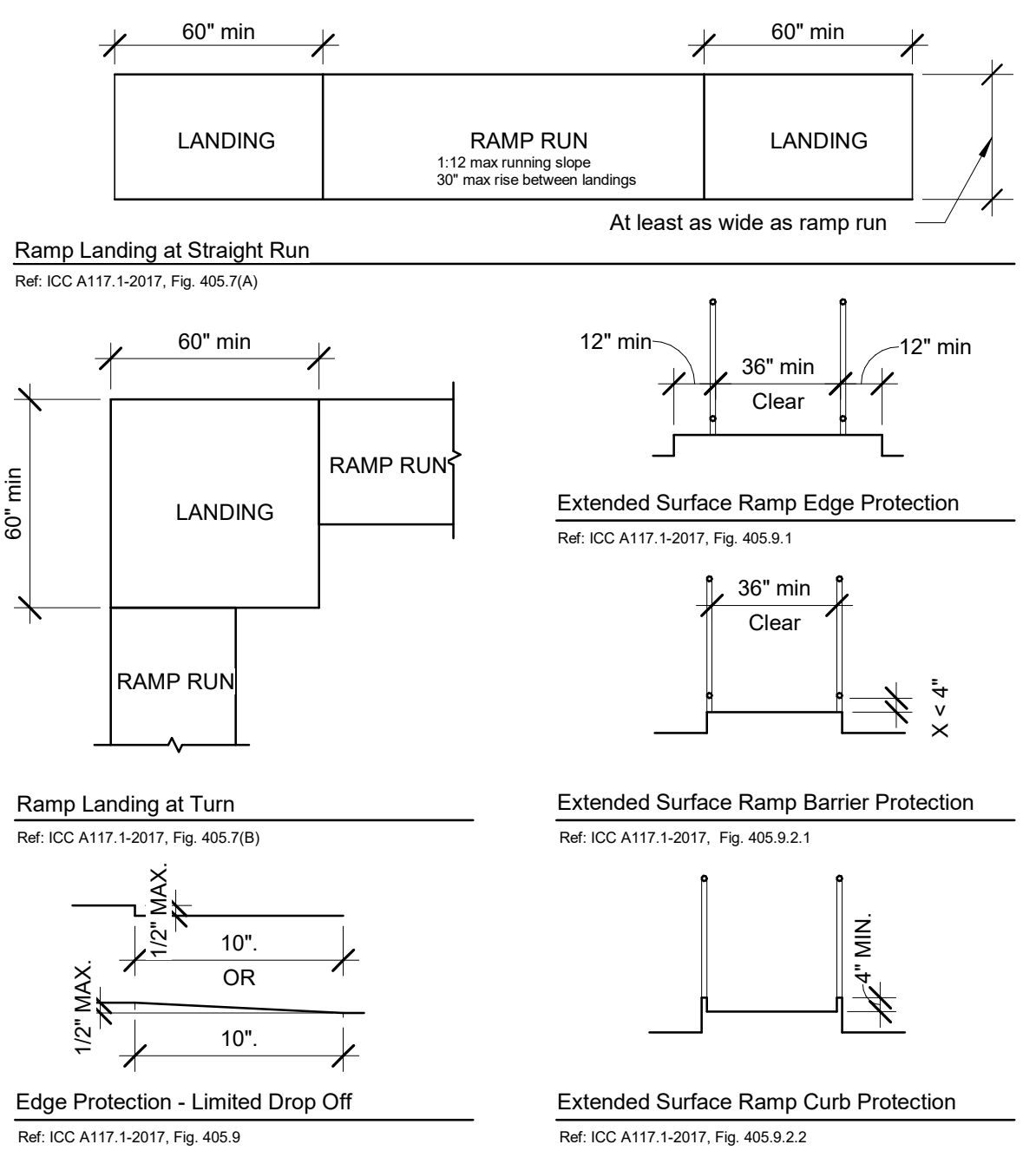
403 WALKING SURFACES



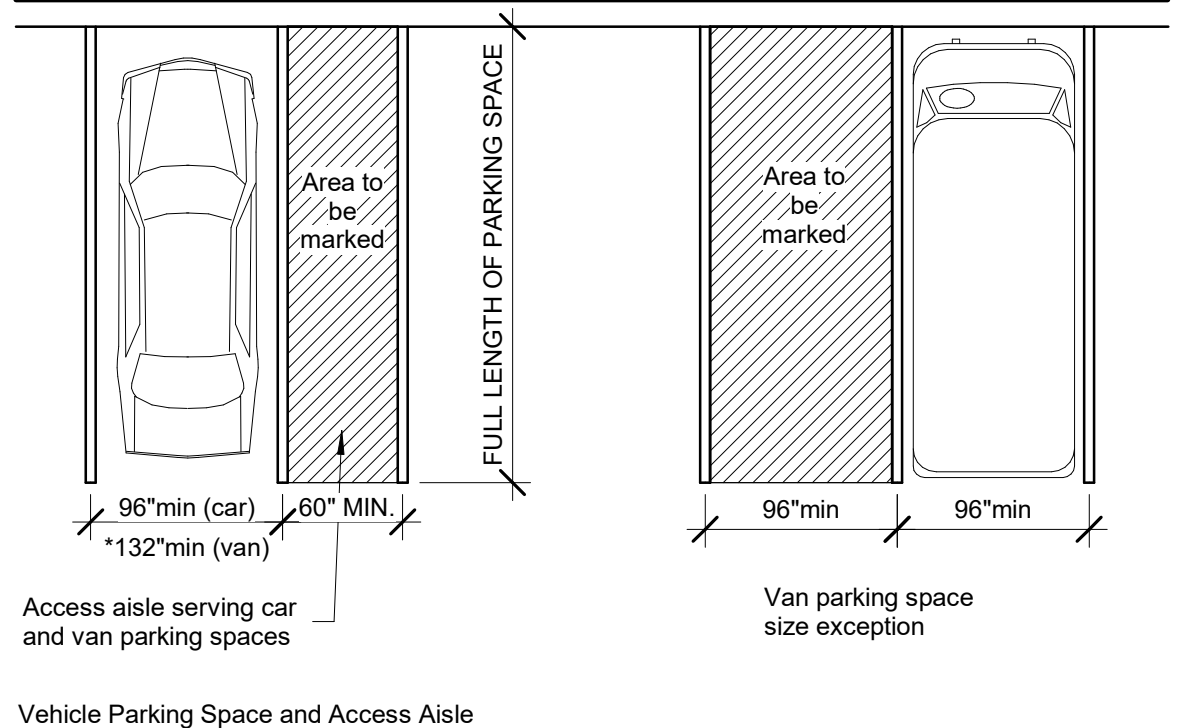
404 DOORS AND DOORWAYS



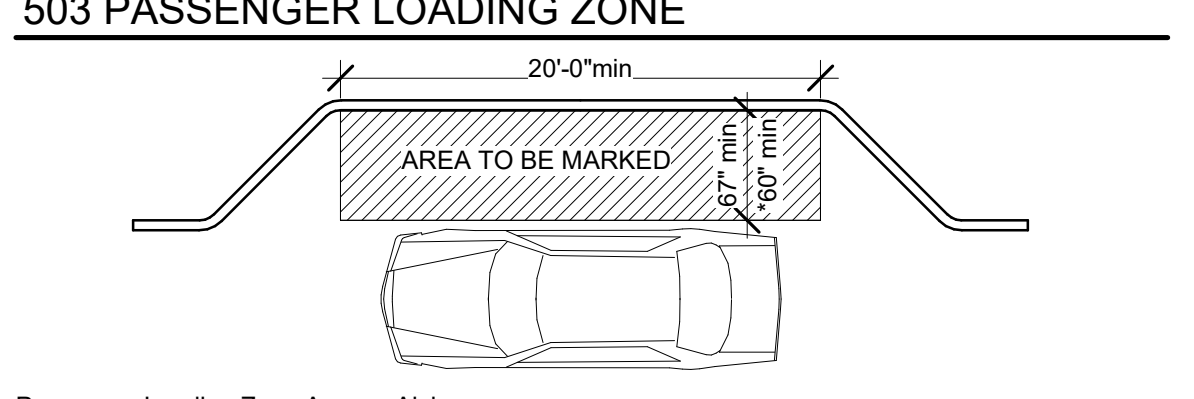
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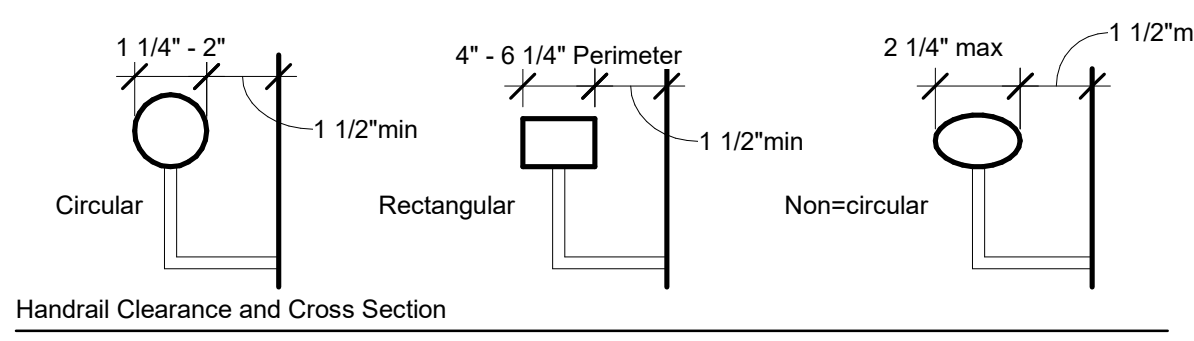
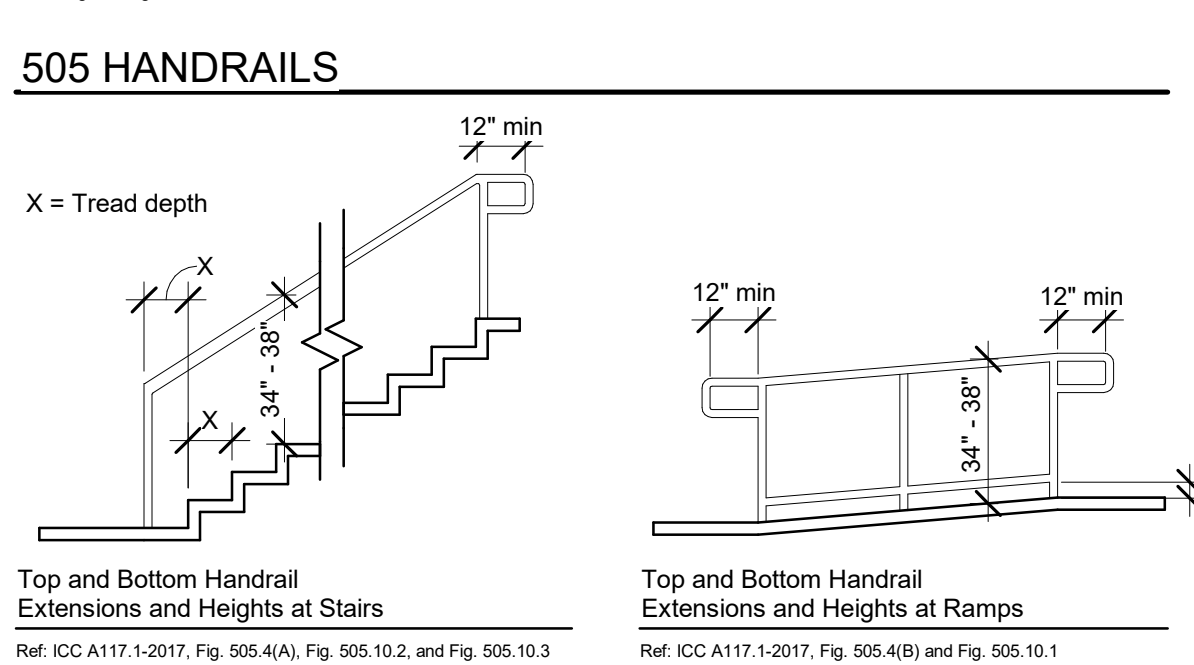
502 PARKING SPACES



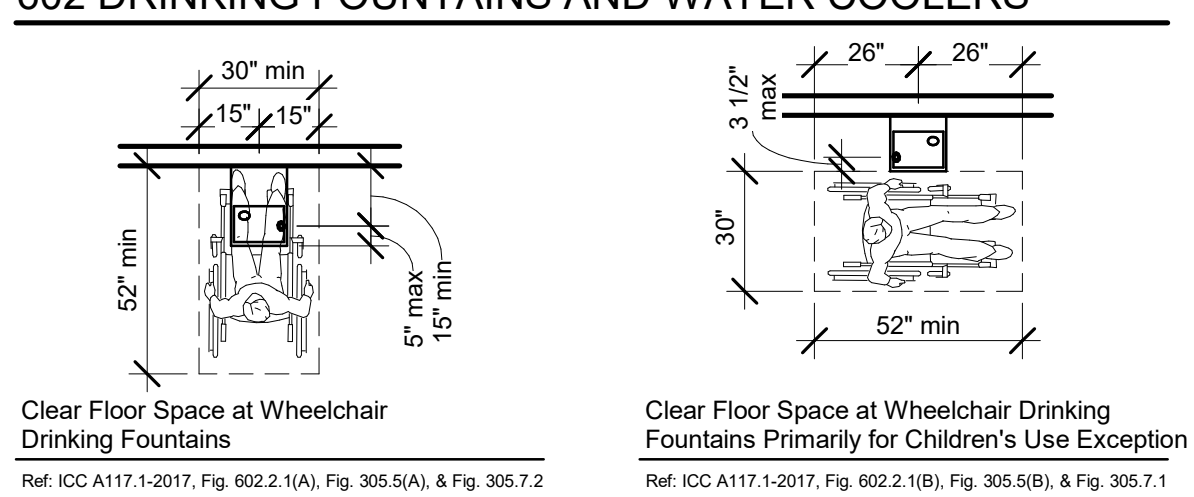
503 PASSENGER LOADING ZONE



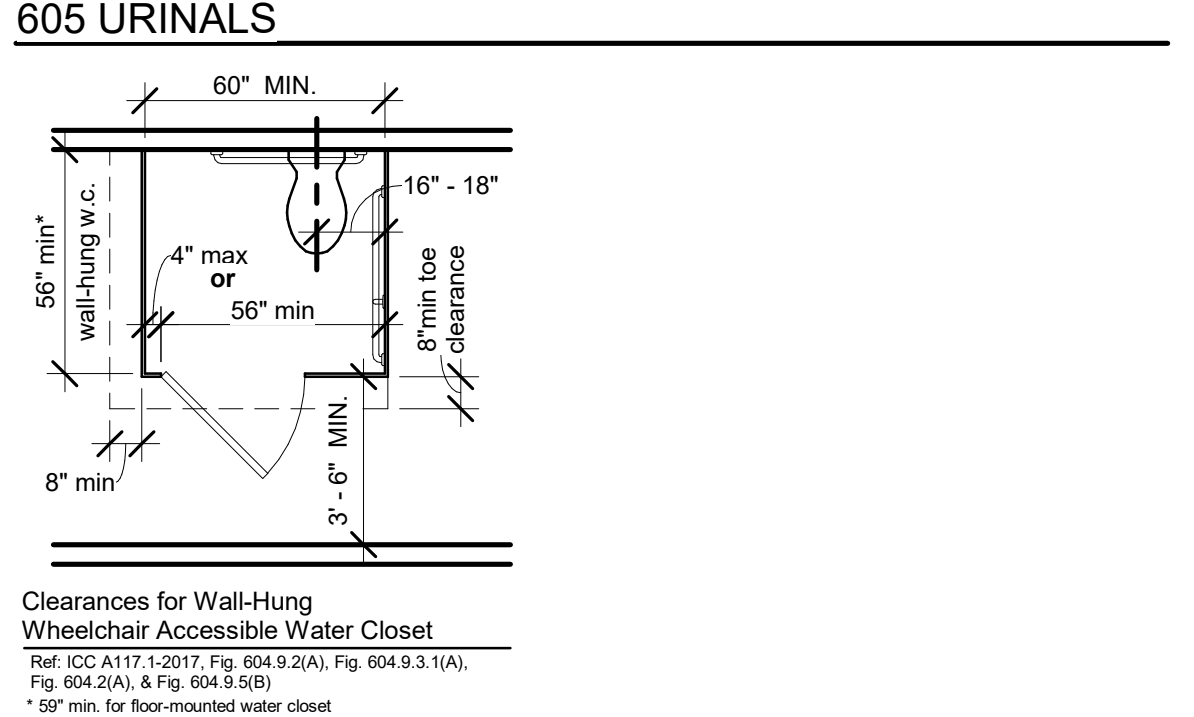
505 HANDRAILS



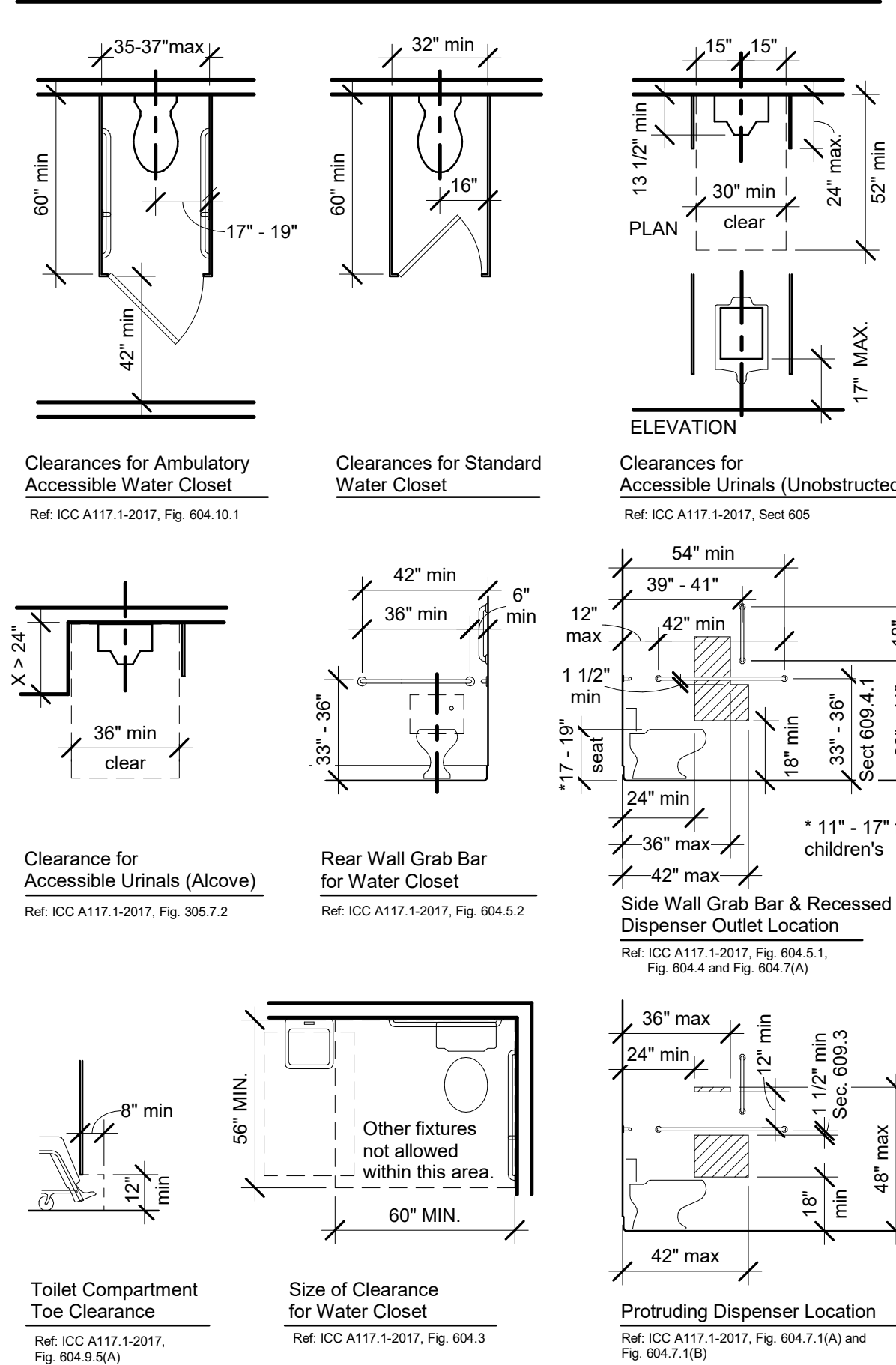
602 DRINKING FOUNTAINS AND WATER COOLERS



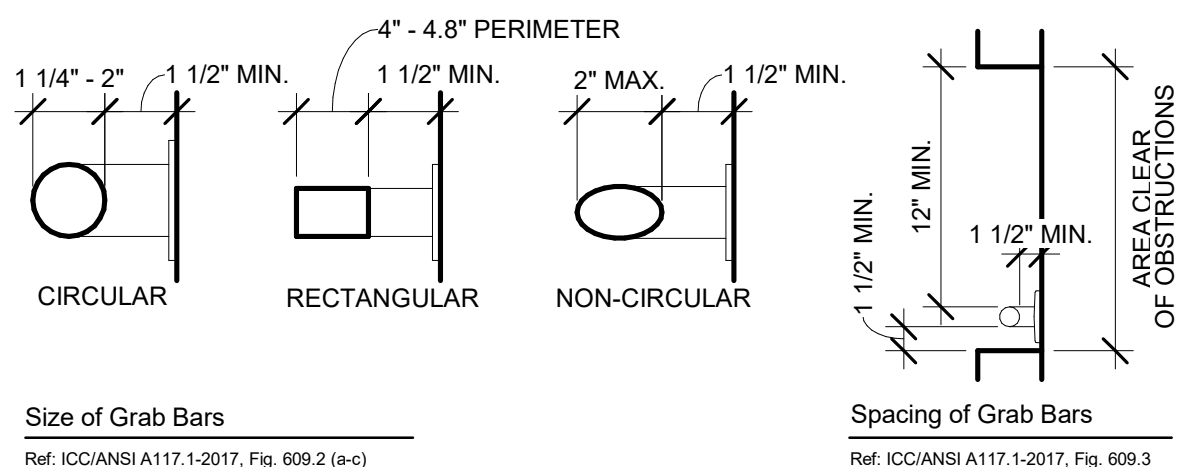
604 WATER CLOSETS, TOILET COMPARTMENTS, & 605 URINALS



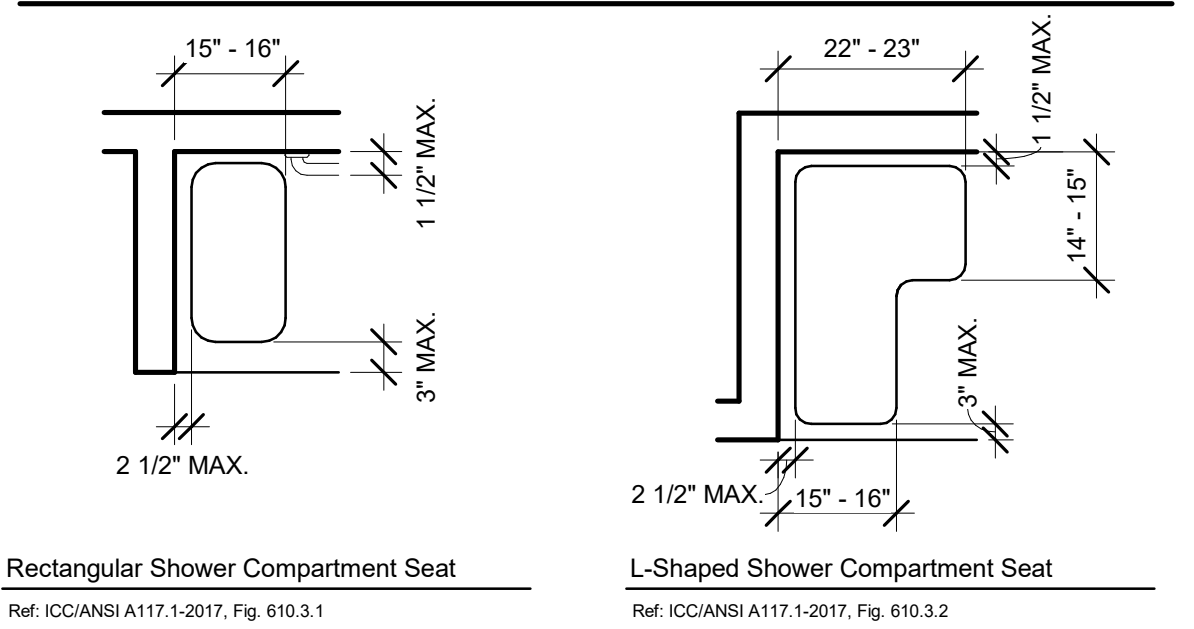
604 WATER CLOSETS, TOILET COMPARTMENTS, & 605 URINALS Cont.



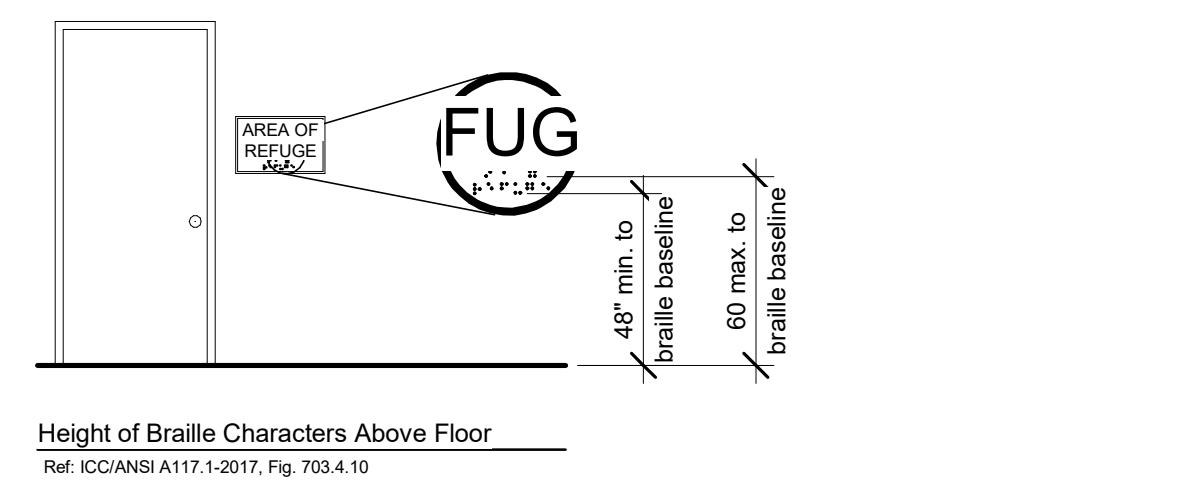
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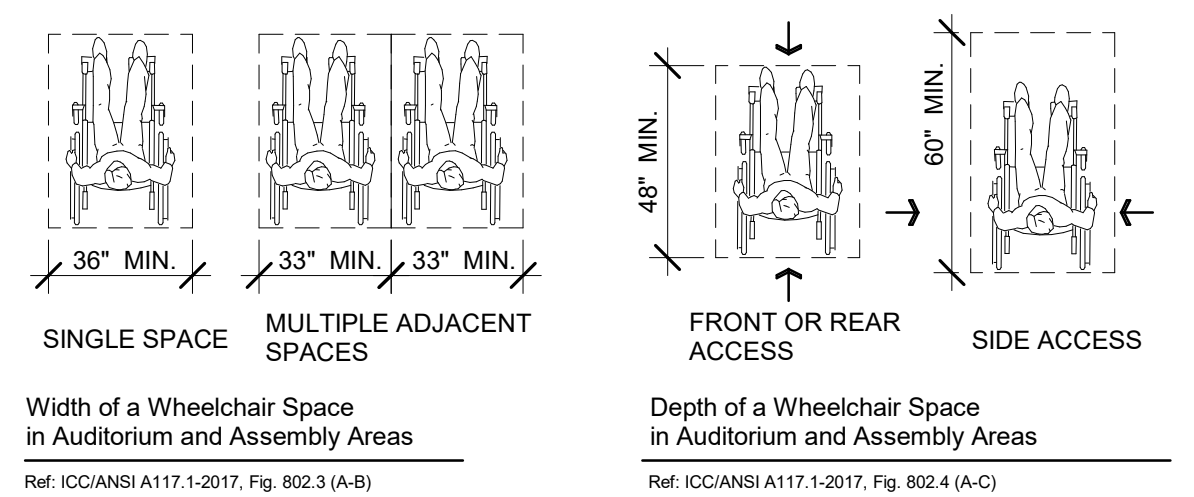
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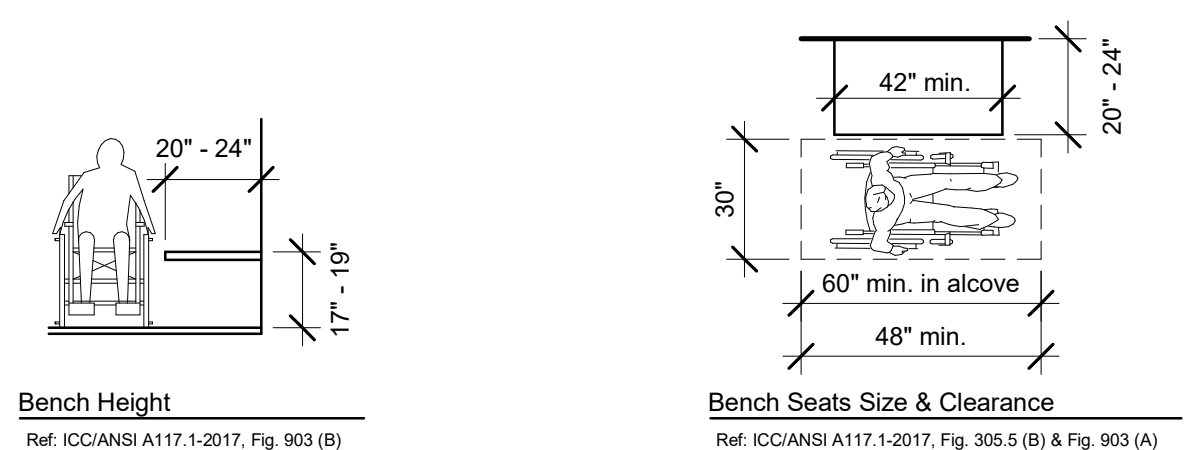
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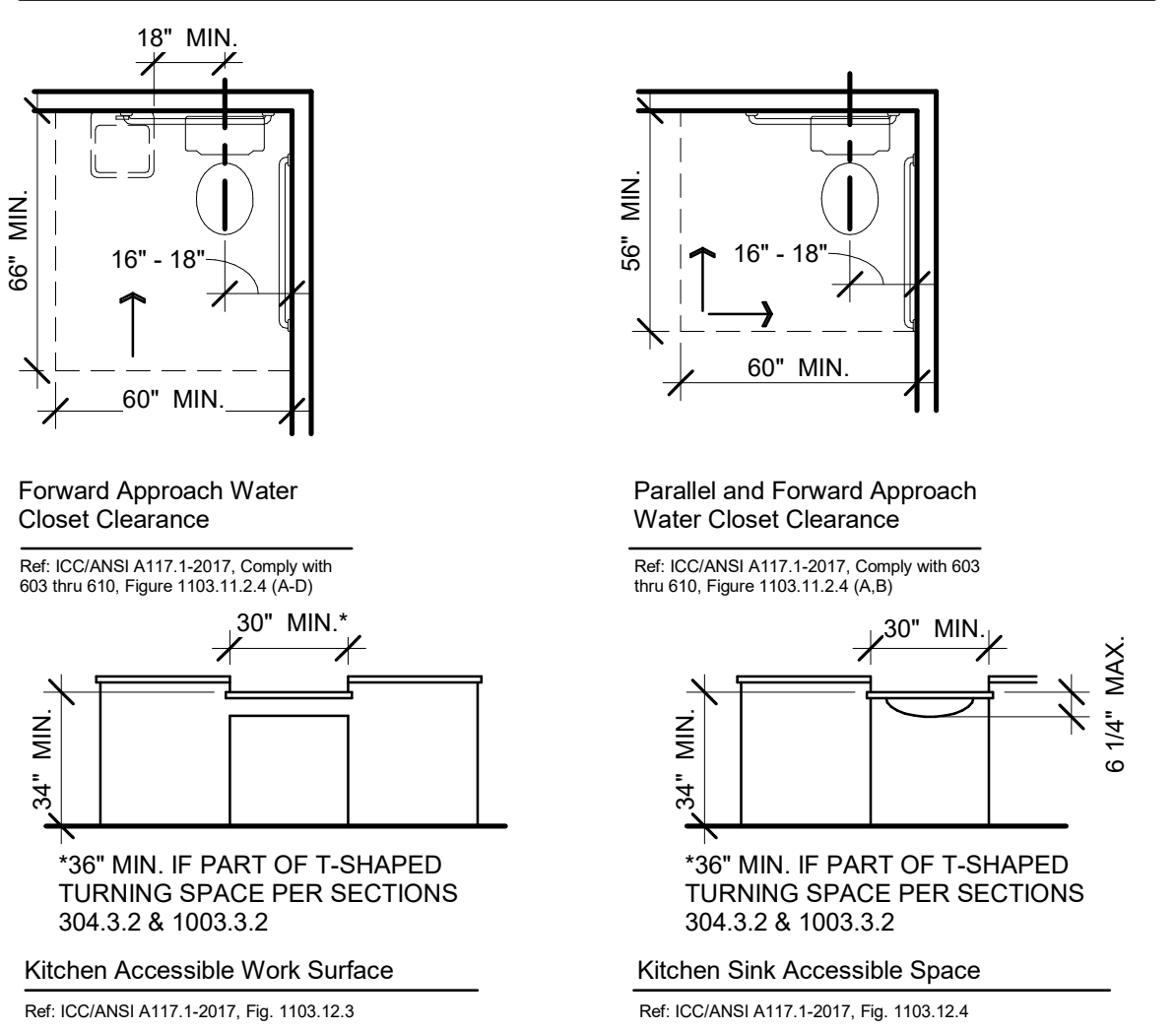
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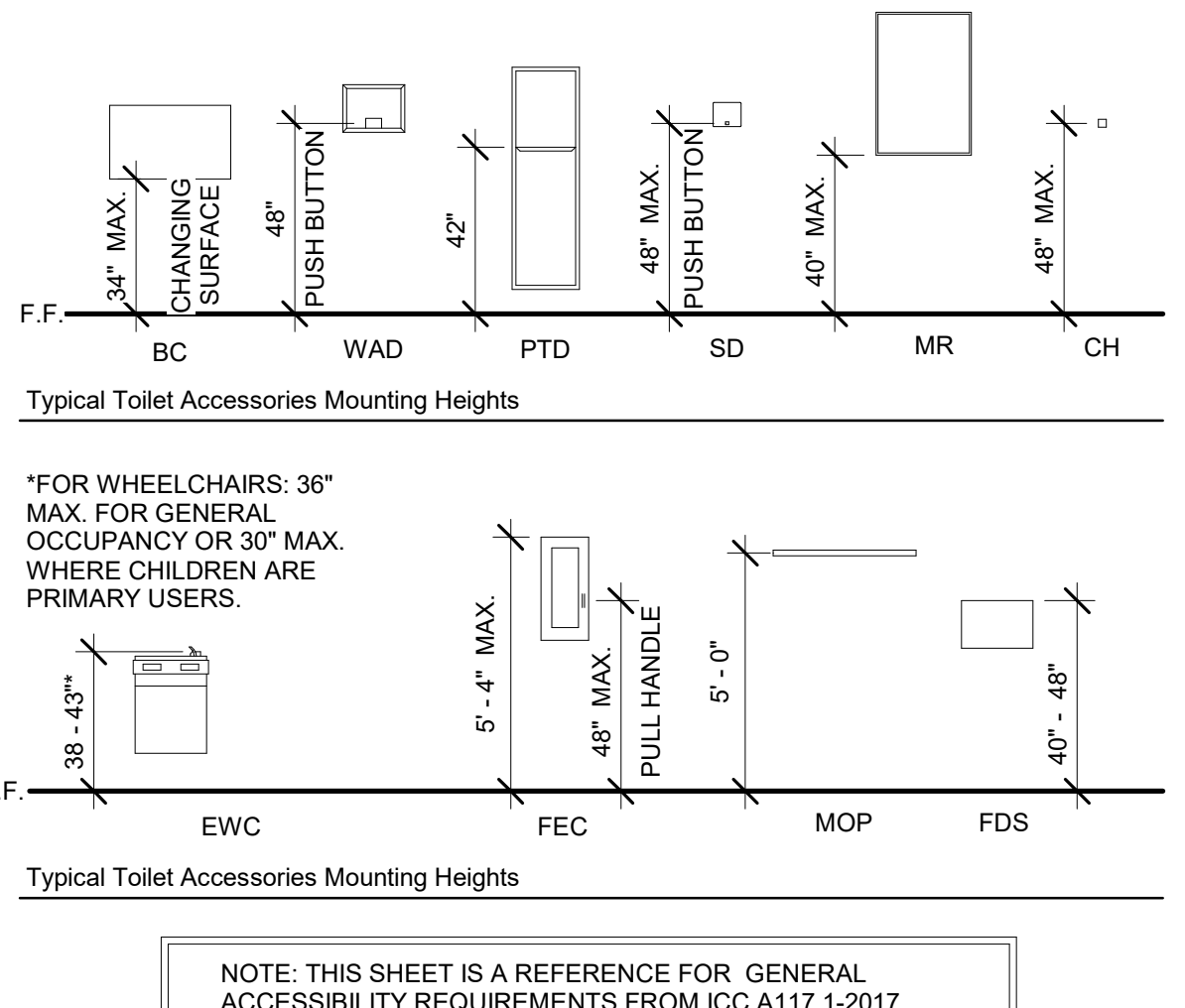
903 BENCHES



1103 TYPE A DWELLING UNITS



ACCESSORIES

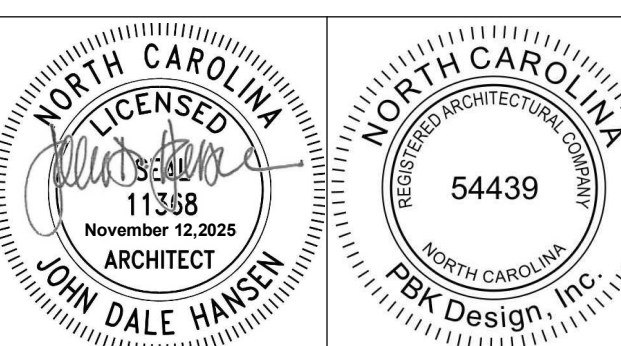


CRAIG GAULDEN
DAVIS **PK**

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CONSULTANT

TOWN OF
CANTON

ARMORY
COMMUNITY
CENTER
RENOVATION

71 PENLAND ST. CANTON, NC 28716

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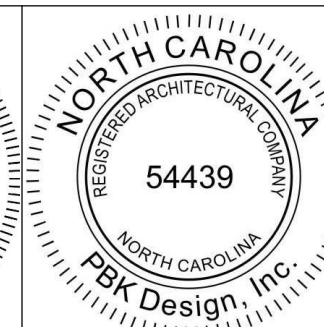
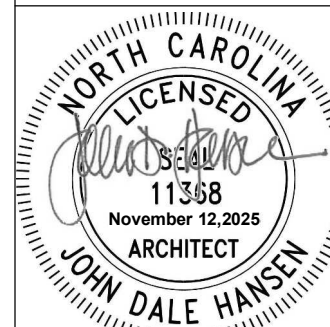
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ISSUE: CONSTRUCTION DOCUMENTS
DATE: 11/12/2025
PROJECT NO: 23029
DRAWN BY: JH
CHECKED BY: JDH

MAIN LEVEL DEMOLITION
PLAN

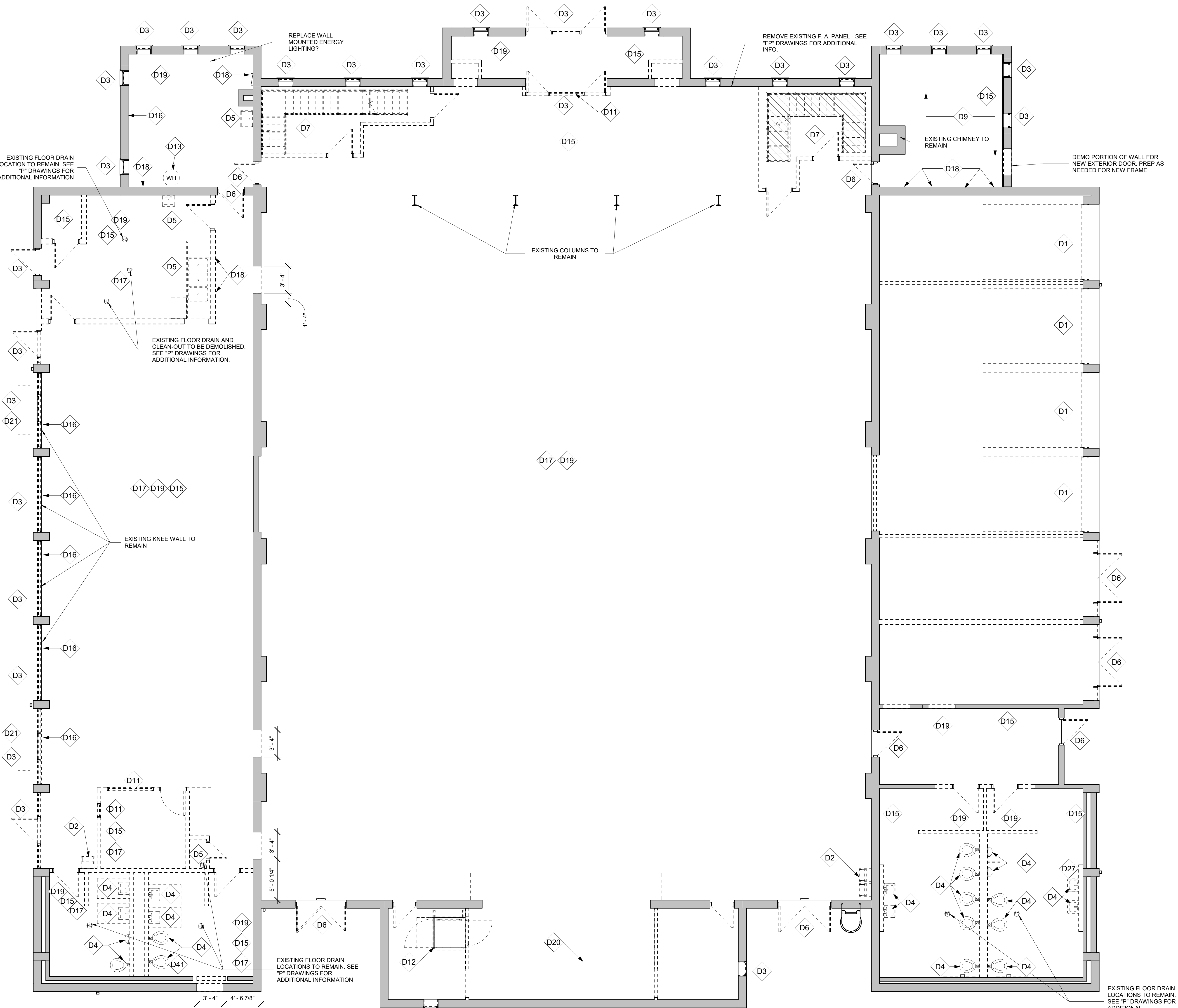
D101

DEMOLITION LEGEND

WALL TYPES:		EXISTING WALLS TO REMAIN
		WALLS TO BE DEMOLISHED
DOOR TYPES:		EXISTING DOOR TO REMAIN
		EXISTING DOOR TO BE REMOVED
		EXISTING TO REMAIN, NOT IN SCOPE

DEMO KEY NOTE LEGEND:

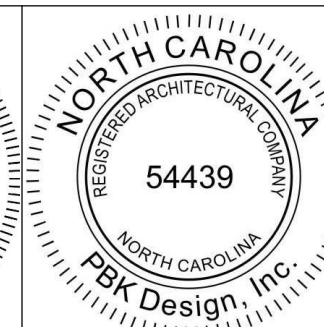
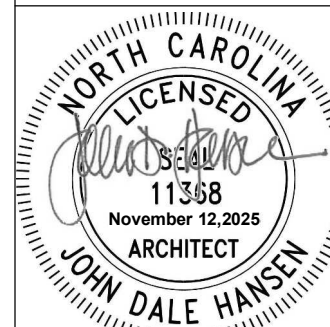
- D1 REMOVE OVERHEAD DOOR, PREP AS REQUIRED FOR NEW OVERHEAD DOOR IN EXISTING LOCATION, OR INFILL WALL. CAP AS REQUIRED
- D2 REMOVE ELECTRIC WATERCOOLER IF REMAINING. SEE FLOOR PLANS & "P" SHEETS FOR REVISED LOCATIONS
- D3 REMOVE STOREFRONT SYSTEM & DOORS AS INDICATED. PREP AS REQUIRED FOR NEW STOREFRONT SYSTEM.
- D4 REMOVE REMAINING TOILETS, URINALS, SINKS, TOILET PARTITIONS, AND TOILET ACCESSORIES. SEE "P" SHEETS FOR ADDITIONAL INFORMATION
- D5 REMOVE PLUMBING FIXTURES, PREP AS NEEDED FOR NEW FIXTURES OR CAP AS REQUIRED. SEE "P" SHEETS FOR ADDITIONAL INFO
- D6 REMOVE DOOR AND FRAME, PREP AS REQUIRED FOR NEW DOOR & FRAME OR INFILL WALL IN EXISTING LOCATION
- D7 DEMOLISH EXISTING STAIR AND ASSOCIATED RAILINGS
- D8 CLEAN & PAINT RAILING
- D9 REMOVE DAMAGED WOOD/STEEL JOISTS AND WOOD FLOORING. SEE "S" DRAWINGS FOR ADDITIONAL INFO.
- D10 REMOVE EXISTING EXHAUST FAN
- D11 REMOVE INTERIOR STOREFRONT SYSTEM
- D12 REMOVE WHEEL CHAIR LIFT
- D13 DEMO EXISTING WATER HEATER
- D14 DEMO EXISTING FLOOR. SEE "P" SHEETS FOR REVISED LOCATIONS & DEMO SLAB AS REQUIRED. SEE "S" SHEETS FOR ADDITIONAL INFORMATION.
- D15 DEMO REMAINING CEILING, LIGHTING, DIFFUSERS & DUCTS IN ENTIRETY
- D16 DEMO EXISTING MECHANICAL WINDOW UNITS. SEE "M" DRAWINGS FOR ADDITIONAL INFORMATION.
- D17 REMOVE REMAINING WALL MOUNTED EMERGENCY LIGHTS & CONDUIT IN ENTIRETY IN ROOM. SEE "E" DRAWINGS FOR ADDITIONAL INFORMATION
- D18 DEMO ELEC. PANELS. SEE "E" SHEETS FOR ADDITIONAL INFORMATION
- D19 REMOVE ALL UNUSED WALL MOUNTED CONDUIT. SEE "E" SHEETS FOR ADDITIONAL INFORMATION
- D20 DEMOLISH REMAINING EXISTING STAGE FRAMING
- D21 DEMOLISH EXISTING BENCH
- D22 DEMOLISH EXISTING MECHANICAL UNITS - SEE MECH.



GENERAL DEMOLITION NOTES

- The Contractor is responsible for verifying all underground utilities and the removal and capping of all utilities necessary for the accomplishment of the work of the Contract Documents. All abandoned, nonessential or otherwise not specifically shown to be re-used mechanical, plumbing or electrical utilities that are exposed after demolition work shall be removed and/or capped at the point of origin. Consult the Architect or Owner if questions arise as to whether service shall be disconnected or remain.
- The Contractor shall exercise due care and diligence in protecting critical components or utilities to remain and to prevent their accidental destruction or interruption. Discovery of unforeseen conditions regarding these components should be brought to the attention of the Architect for consideration before commencing with demolition work. Damage to any building or site components that are not described in the Contract Documents shall be repaired to the satisfaction of the Owner at the Contractor's expense.
- The Contractor shall remove and properly dispose of all materials identified to be demolished. Items requested by the Owner to be salvaged shall be removed by the Contractor, marked as "Salvage" and stored at the site for the Owner to dispose of.
- The Contractor shall provide barricades and fencing as required during demolition to protect persons and property adjacent to the Work and to prevent unauthorized people from entering the project area and provide necessary SIGNAGE to direct pedestrian and vehicular traffic for the general population and building occupants during demolition activities. Temporary barriers and the wetting of materials to prevent air borne particles and dust from leaving the demolition area and causing damage to adjacent areas or property shall be included within the base bid.
- The demolition drawings are intended to provide a description of the scope of demolition to be included in the Work. The drawings may not accurately depict all existing conditions to be encountered. Details and notes shown for specific conditions also shall apply to similar conditions throughout the Work. It is the responsibility of the Contractor to visit the site and examine the conditions to properly estimate the scope of the demolition work.
- Refer to other engineering drawings within the Contract Documents for demolition work to be performed by other Subcontractors. Avoid duplication during bidding. Contractor shall coordinate the work of Subcontractors to ensure that all demolition work is included in the base bid and properly managed throughout the project.
- All non-essential components of the existing construction that will interfere with the installation of the work of the Contract Documents shall be removed.
- If the building is to remain occupied during construction, the Contractor is responsible to maintain all means of egress from the facility. Corridors shall not be substantially reduced in width, exit signs shall not be blocked from view and all egress doors shall remain operable.
- Contractor shall include all costs for demolition work required for routing of all utilities, thermostats, grilles below slabs, inside walls and above ceilings and necessary repairs to match adjacent surfaces and finishes.

1 MAIN LEVEL DEMOLITION PLAN
3/16" = 1'-0"



CONSULTANT

TOWN OF
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ARMORY
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CENTER
RENOVATION

71 PENLAND ST. CANTON, NC 28716

DATE	MARK	DESCRIPTION
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ISSUE: CONSTRUCTION DOCUMENTS

DATE: 11/12/2025

PROJECT NO: 23029

DRAWN BY: JH

CHECKED BY: JDH

UPPER LEVEL
DEMOLITION PLAN

D102

DEMOLITION LEGEND

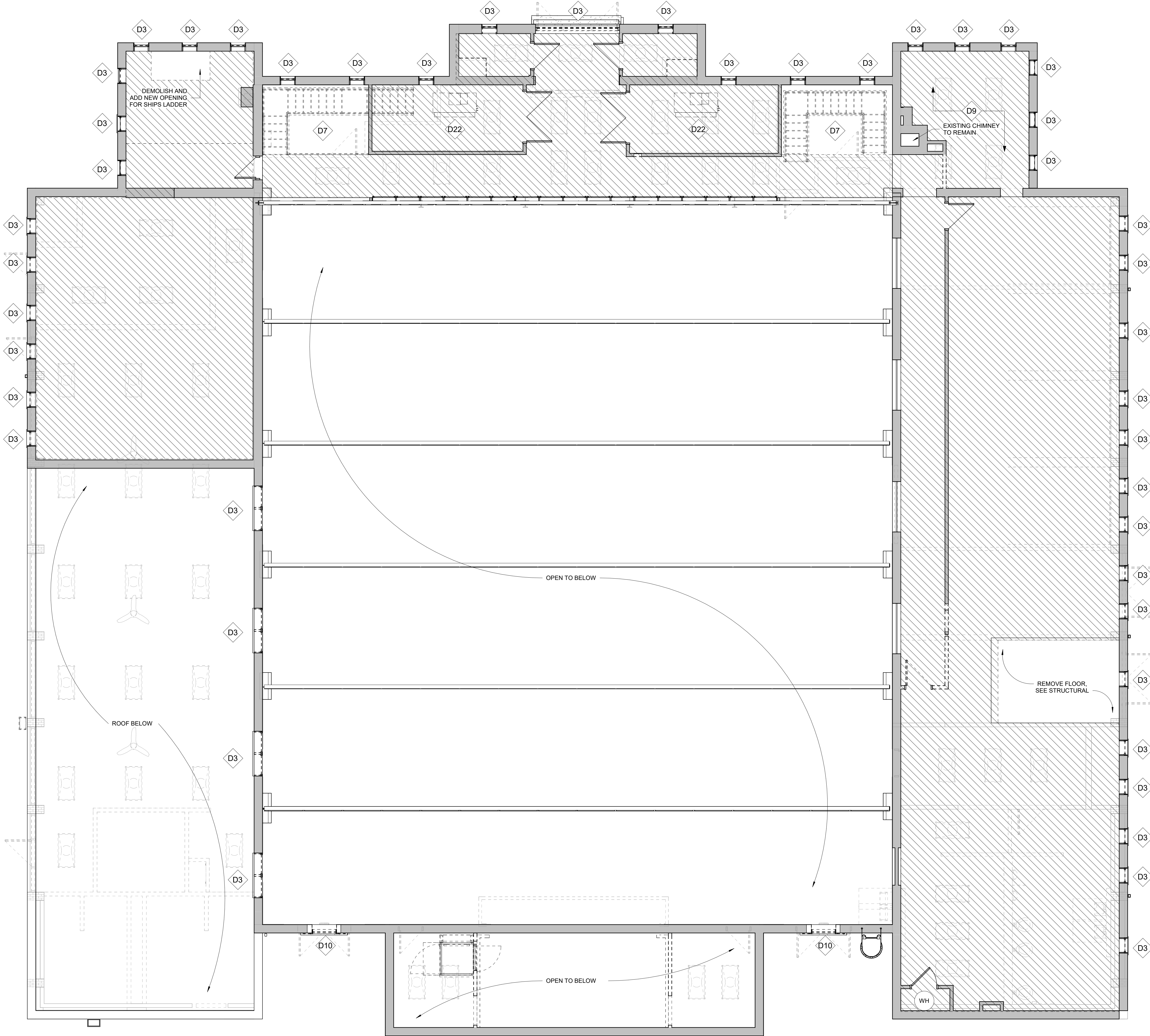
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D12	REMOVE WHEEL CHAIR LIFT.
D13	DEMO EXISTING WATER HEATER.
D14	DEMO EXISTING FLOOR. SEE "P" SHEETS FOR REVISED LOCATIONS & DEMO SLAB AS REQUIRED. SEE "S" SHEETS FOR ADDITIONAL INFORMATION.
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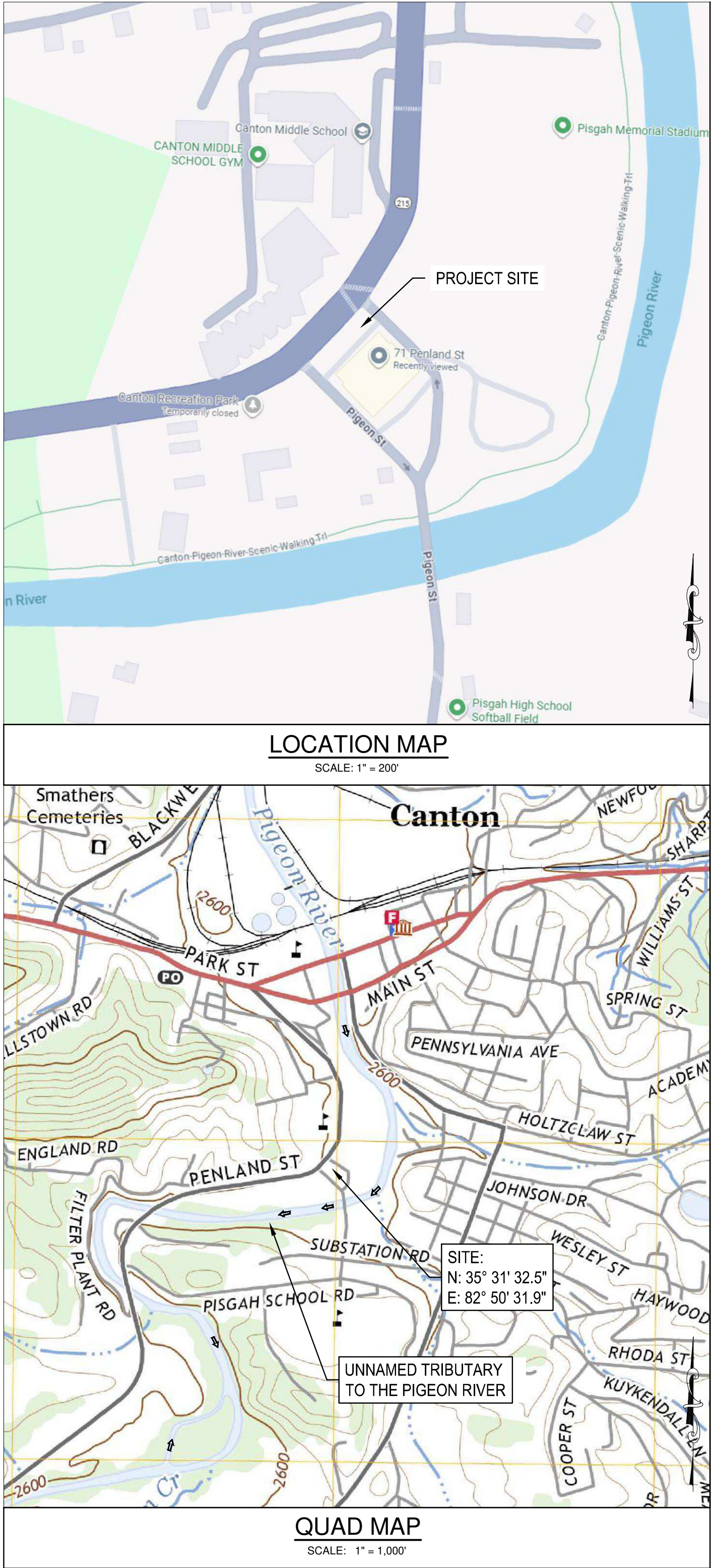


1 D102 3/16" = 1'-0" UPPER LEVEL DEMOLITION PLAN

TOWN OF CANTON

ARMORY COMMUNITY CENTER RENOVATION

71 PENLAND ST, CANTON, 28716
HAYWOOD COUNTY



CIVIL DRAWING LIST			
SHEET	TITLE	ISSUED	REVISED
C001	CIVIL COVER PAGE	11/12/2025	
C400	SITE UTILITY PLAN	11/12/2025	
C640	CIVIL DETAILS - UTILITY	11/12/2025	
C641	CIVIL DETAILS - UTILITY	11/12/2025	

GENERAL NOTES:

- THE EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE BASED UPON AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING 811 FOR UTILITY LOCATION AND DETERMINING THE EXACT LOCATION OF ALL UTILITIES PRIOR TO BEGINNING ANY WORK. IF UTILITIES OTHER THAN THOSE SHOWN HEREON ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY AND TAKE APPROPRIATE MEASURES TO PROTECT THE LINE(S) AND ENSURE CONTINUED SERVICE. DAMAGE CAUSED TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL VERIFY THE CONNECTION POINTS OF NEW UTILITIES TO EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL REVIEW AND STAMP APPROVED ANY AND ALL SHOP DRAWINGS AND SUBMITTALS PRIOR TO SUBMITTING TO THE ENGINEER FOR REVIEW.
- IN PERFORMING CONSTRUCTION OBSERVATION VISITS TO THE JOB SITE, THE ENGINEER SHALL HAVE NO CONTROL OVER NOR RESPONSIBILITY FOR THE CONTRACTOR'S MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES IN PERFORMING THE WORK.
- THE CONTRACTOR'S MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES IN PERFORMING THE WORK IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR, WHO IS ALSO RESPONSIBLE FOR COMPLYING WITH ALL HEALTH AND SAFETY PRECAUTIONS AS REQUIRED BY ANY REGULATORY AGENCY.
- CONTRACTOR IS RESPONSIBLE FOR ALL WORK SHOWN, UNLESS SPECIFICALLY INDICATED OTHERWISE.

GENERAL SURVEY NOTES:

- EXISTING SITE INFORMATION TAKEN FROM GIS INFORMATION AND AERIAL PHOTOGRAPHS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS.

GENERAL UTILITY NOTES:

- ALL UTILITY WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF NCDEQ, NFPA AND TOWN OF CANTON. WHERE ANY DISCREPANCIES EXIST BETWEEN THESE DOCUMENTS, THE MOST STRICT REQUIREMENTS SHALL BE ADHERED TO.
- THE CONTRACTOR SHALL PROVIDE ASBUILTS AND EASEMENTS PLATS OF THE NEW WATER IMPROVEMENTS IAW UTILITY PROVIDER REQUIREMENTS.
- GENERAL CONTRACTOR SHALL COORDINATE ALL SITE UTILITIES AND STORM DRAINAGE INSTALLATION SCHEDULES TO AVOID POTENTIAL UTILITY CONFLICTS. GRAVITY DEPENDENT UTILITIES SHALL BE INSTALLED PRIOR TO NON-GRAVITY DEPENDENT UTILITIES.
- CONTRACTOR SHALL CONTACT 811 PRIOR TO ANY WORK. CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING AND PROTECTING ALL UTILITIES. CONTACT THE ENGINEER IN THE EVENT THAT UTILITIES CONFLICT WITH NEW FACILITIES.
- WATER SYSTEM CLOSOUT:
 - CONTRACTOR SHALL SCHEDULE WORK AND ACCOUNT FOR TIME IN THE SCHEDULE FOR CLOSOUT. ACTIVITIES TO OCCUR AFTER INSTALLATION OF THE UTILITY. MORE INFORMATION OF THESE REQUIREMENTS IS LOCATED IN THE PROJECT SPECIFICATIONS, AND TOWN OF CANTON. REQUIREMENTS INCLUDE, BUT ARE NOT LIMITED TO:
 - INSPECTIONS AND TESTING IN ACCORDANCE WITH PROJECT AND TOWN OF CANTON SPECIFICATIONS
 - PREPARATION, REVIEW, AND CORRECTION OF AS-BUILT/RECORD DRAWINGS PROVIDED BY CONTRACTOR'S SURVEYOR.
 - PREPARATION, REVIEW, AND CORRECTION OF EASEMENT PLATS AND LEGAL DESCRIPTION PREPARED BY CONTRACTOR'S SURVEYOR.
 - PREPARATION AND EXECUTION OF WAIVER OF LIEN BY UTILITY SUBCONTRACTOR
 - PREPARATION AND EXECUTION OF LEGAL DOCUMENTS BY OWNER AND UTILITY OPERATOR
 - REVIEW OF DOCUMENTATION BY ENGINEER AND UTILITY OPERATOR REVIEW OF DOCUMENTATION BY TOWN OF CANTON CONTRACTOR SHALL ASSUME REASONABLE TIME FRAMES FOR OWNER, ENGINEER, AND UTILITY OPERATOR AT EACH STAGE OF CLOSOUT. REVIEW TIMES CAN VARY BASED UPON THE INITIAL QUALITY AND COMPLETENESS OF THE DOCUMENTS PROVIDED. THE MINIMUM TIME FROM COMPLETION OF SUCCESSFUL INSPECTIONS AND TESTING AND THE INITIAL SUBMITTAL OF CONTRACTOR DOCUMENTS TO THE RECEIPT OF APPROVAL TO OPERATE SHALL BE ASSUMED TO BE 30 DAYS.

TRAFFIC CONTROL NOTES:

- CONTRACTOR SHALL PERFORM ALL NECESSARY COORDINATION WITH NCDOT. FOR WORK INSIDE THE RIGHT OF WAY, INCLUDING BUT NOT LIMITED TO PREPARATION OF AND OBTAINING APPROVAL OF ALL NECESSARY TRAFFIC CONTROL PLANS AS WELL AS PLANNING AND EXECUTION OF ALL NECESSARY COORDINATION MEETINGS.
- CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE APPROVED ENCROACHMENT PERMIT(S).
- CONTRACTOR SHALL MAINTAIN SCOT SITE VISIBILITY TRIANGLES AT ALL ACCESS POINTS FOR THE DURATION OF CONSTRUCTION.
- ALL TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD), CURRENT EDITION.

CIVIL ABBREVIATIONS:

BTTM	BOTTOM	NCDEMR	NC DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES
BES	BEVELED END SECTION		
BM	BENCHMARK	NCDEQ	NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY
BMP	EROSION CONTROL BEST MANAGEMENT PRACTICES	NOT	NOTICE OF TERMINATION
BW	BOTH WAYS	NTS	NOT TO SCALE
CB	CATCH BASIN	NOI	NOTICE OF INTENT
CI	CURB INLET	NOT	NOTICE OF TERMINATION
CGP	CONSTRUCTION GENERAL PERMIT SCR 100000	NTS	NOT TO SCALE
CL	CENTERLINE	OC	ON CENTER
CMP	CORRUGATED METAL PIPE	ODSA	OPERATOR OF DAY TO DAY SITE ACTIVITIES
CO	CLEANOUT	PC	POINT OF CURVATURE
CONC	CONCRETE	PCU	PENDER COUNTY UTILITIES
CY	CUBIC YARDS	POA	POINT OF ANALYSIS
DCVA	DOUBLE CHECK VALVE ASSEMBLY	PP	POWER POLE
DI	DROP INLET	PT	POINT OF TANGENT
DIA	DIAMETER	PVC	POLYVINYL CHLORIDE
DIP	DUCTILE IRON PIPE	PVMT	PAVEMENT
DS	DOWNSPOUT	RCP	REINFORCED CONCRETE PIPE
EL	ELEVATION	RD	ROOF DRAIN
EXST	EXISTING	REQD	REQUIRED
EW	EACH WAY	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
FFE	FINISHED FLOOR ELEVATION	RW	RIGHT OF WAY
FG	FINISHED GRADE		
FH	FIRE HYDRANT	SABC	STABILIZED AGGREGATE BASE COURSE
FM	FORCE MAIN		
GI	GRATE INLET	SF	SQUARE FEET
HDPE	HIGH DENSITY POLYETHYLENE	SWPPP	STORM WATER POLLUTION PREVENTION PLAN
IAW	IN ACCORDANCE WITH	SS	SANITARY SEWER SERVICE
IE	INVERT ELEVATION	STA	STATION
JB	JUNCTION BOX	TELECOM	TELECOMMUNICATION
LF	LINEAR FEET	TBM	TEMPORARY BENCH MARK
LOD	LIMITS OF DISTURBANCE	TC	TOP OF CURB
LP	LIGHT POLE	TG	TOP OF GUTTER
MATL	MATERIAL	TP	TOP OF PAVEMENT
MAX	MAXIMUM	TYP	TYPICAL
MH	MANHOLE	VC	VITRIFIED CLAY
MIN	MINIMUM	W	WATER
MS4	MUNICIPAL SEPARATE STORM SEWER SYSTEM	W/	WITH
NCDOT	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	WS	WATER SERVICE
		WV	WATER VALVE

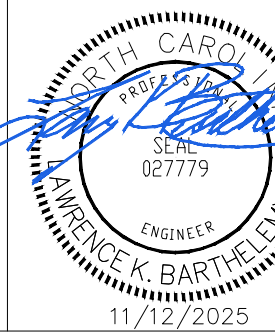
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Greenville, SC 29601

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CONSULTANT

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25 WOODS LAKE ROAD, SUITE 210
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864-751-9121
NC COA #C-1572
ADCENGINEERING.COM

TOWN OF
CANTON

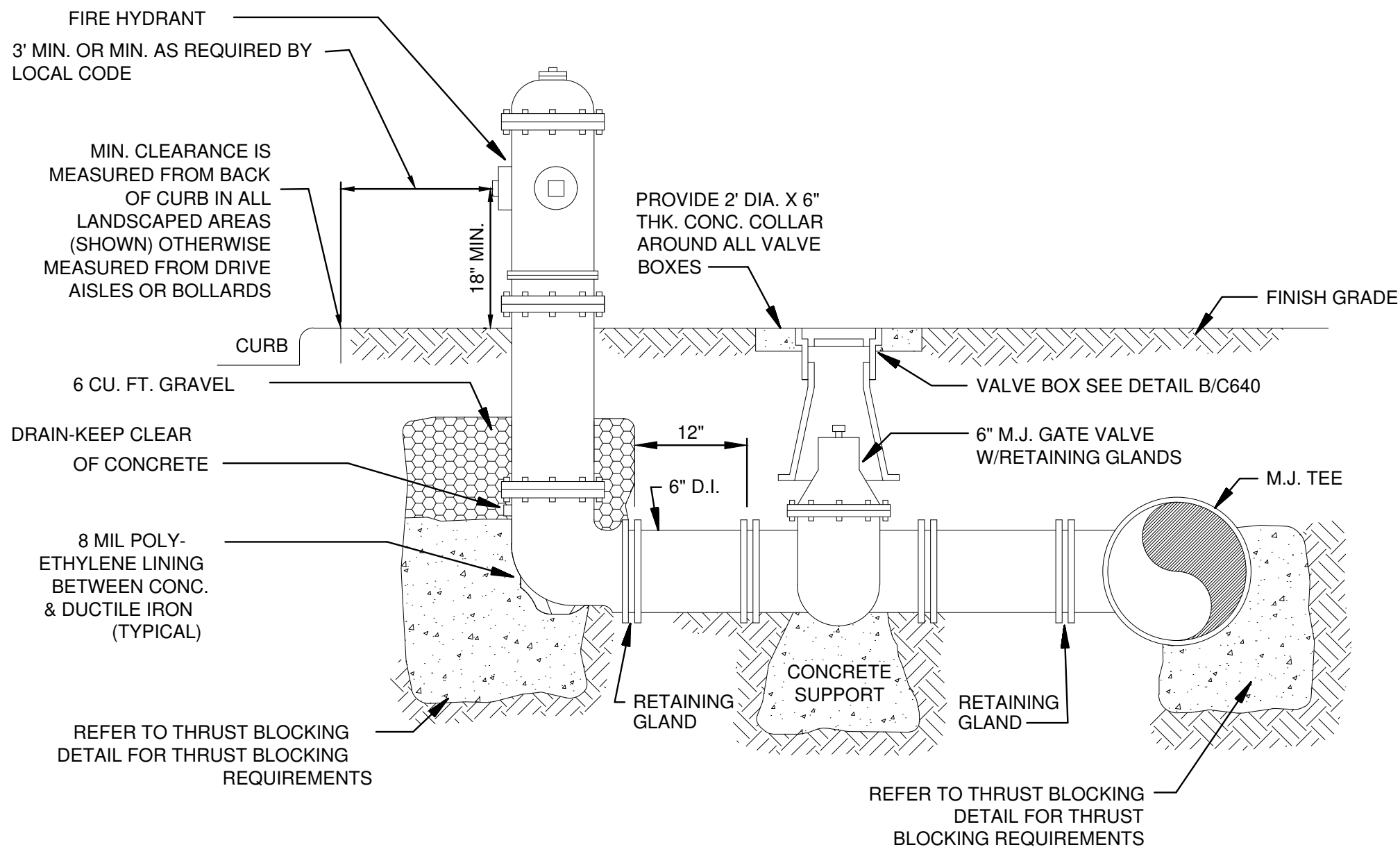
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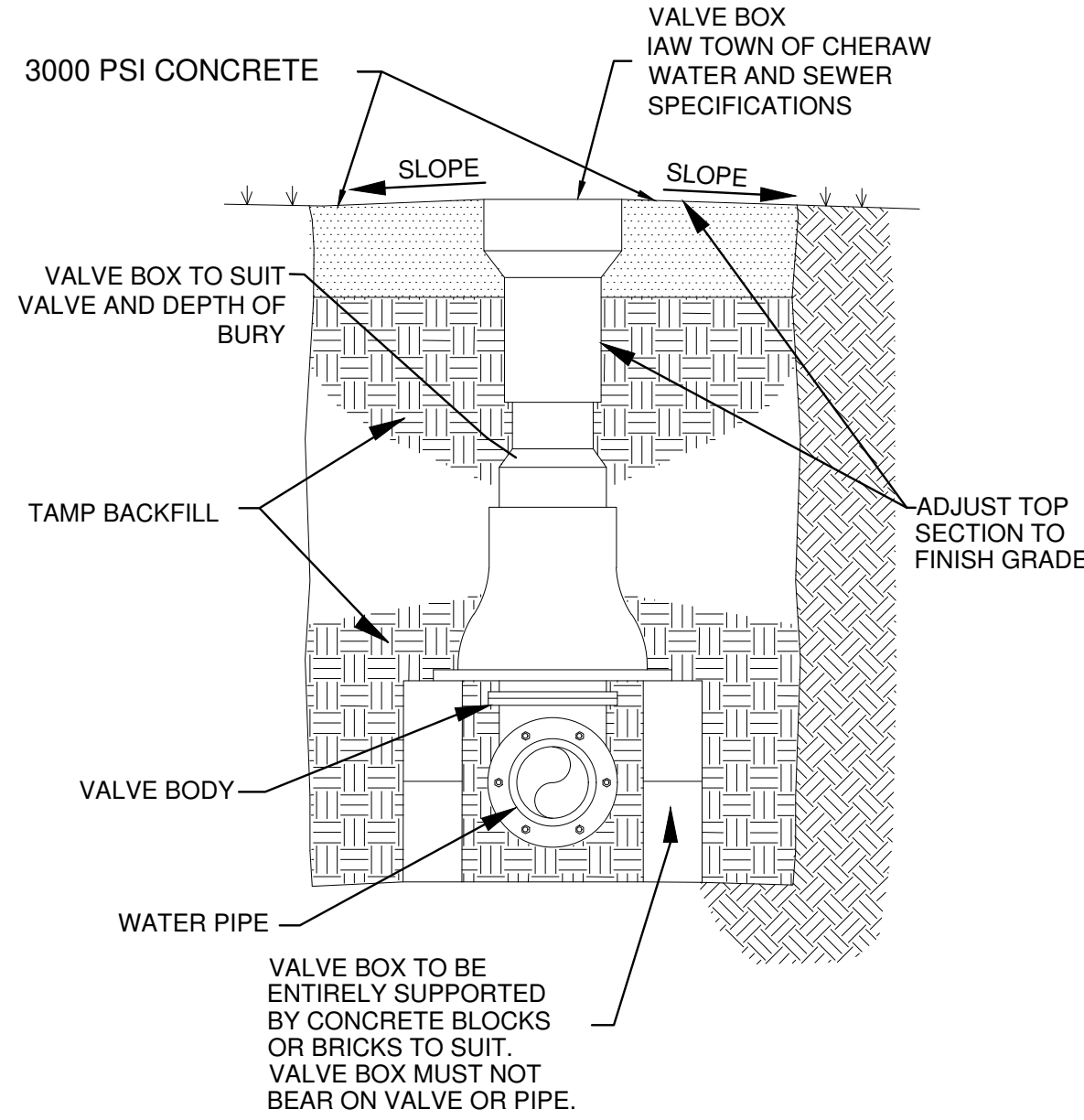
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PROJECT NO: 25374
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CHECKED BY: LKB
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C001

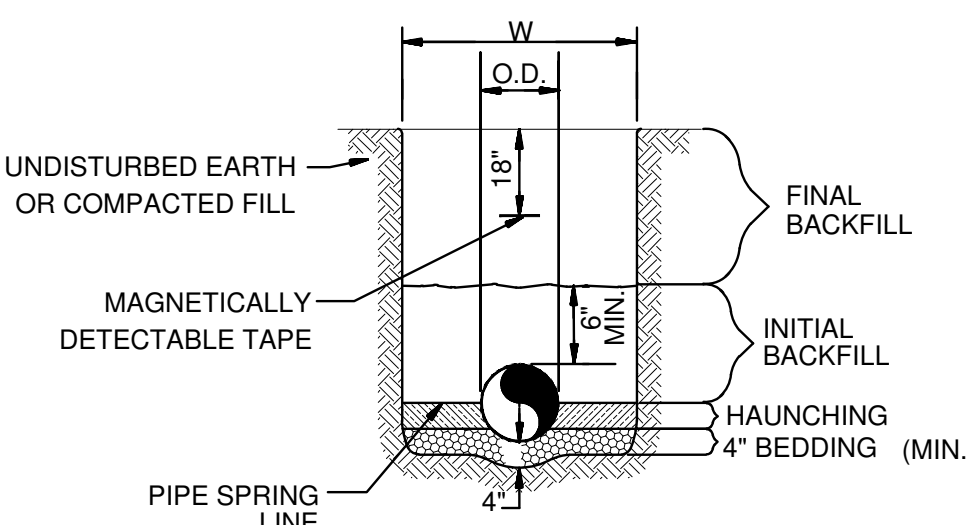


- NOTE:
1. ALL HYDRANTS TO BE SET PLUMB W/ NOZZLE FACING STREET UNLESS OTHERWISE SPECIFIED BY FIRE DEPARTMENT
 2. ALL CONCRETE TO BE 3000 PSI P.C. CONCRETE
 3. FIRE HYDRANT ASSEMBLY INCLUDES GATE VALVE AND APPURTENANCES.

A FIRE HYDRANT ASSEMBLY
NOT TO SCALE



B GATE VALVE
N.T.S.

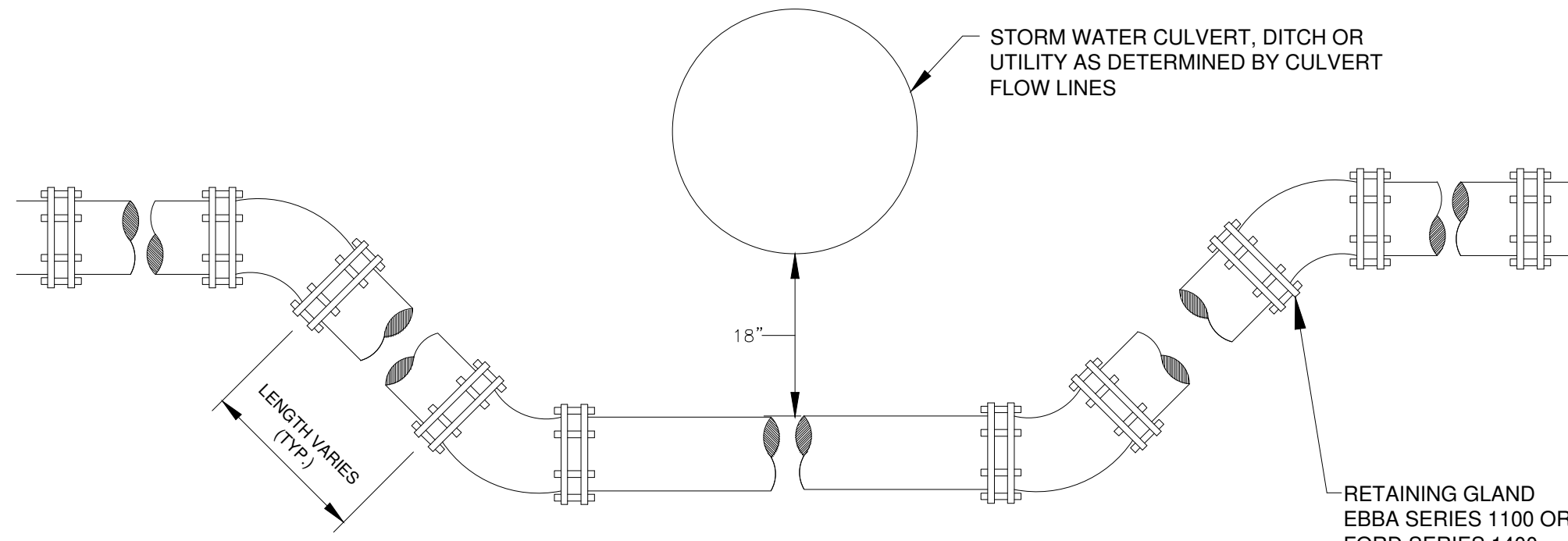


PIPE DIA.	W
≤12"	O.D. OF PIPE + 12" TO 18"
>12"	> O.D. OF PIPE + 18"

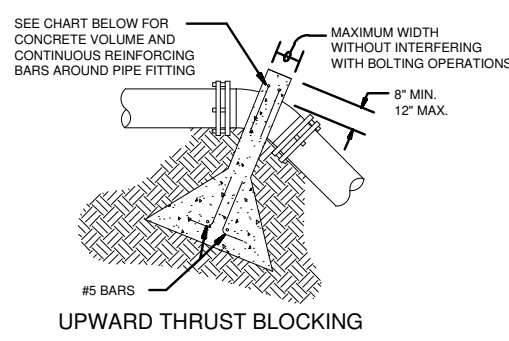
GENERAL NOTES

1. BEDDING SHALL BE CLASS I-A WORKED BY HAND. IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I-B COMPACTED TO 85% STANDARD PROCTOR.
2. HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS I-A OR CLASS I-B OR CLASS II COMPACTED TO 85% PROCTOR.
3. INITIAL BACKFILL SHALL BE CLASS I-A WORKED BY HAND, OR CLASS I-B OR CLASS II COMPACTED TO 85% STANDARD PROCTOR.
4. INITIAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS III COMPACTED TO 90% STANDARD PROCTOR.
5. FINAL BACKFILL SHALL BE CLASS I, II, OR III COMPACTED AS NOTED IN NOTES 3. AND 4.
6. FINAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS IV-A COMPACTED TO 95% STANDARD PROCTOR.
7. ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321-89.
8. ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 898. CLASS III AND IV-A MATERIALS SHALL BE COMPACTED NEAR OPTIMUM MOISTURE CONTENT.
9. FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3".
10. ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES. (SEE SPECIFICATIONS)

C UTILITY TRENCHING AND BEDDING
NOT TO SCALE



D VERTICAL OFFSET
NOT TO SCALE

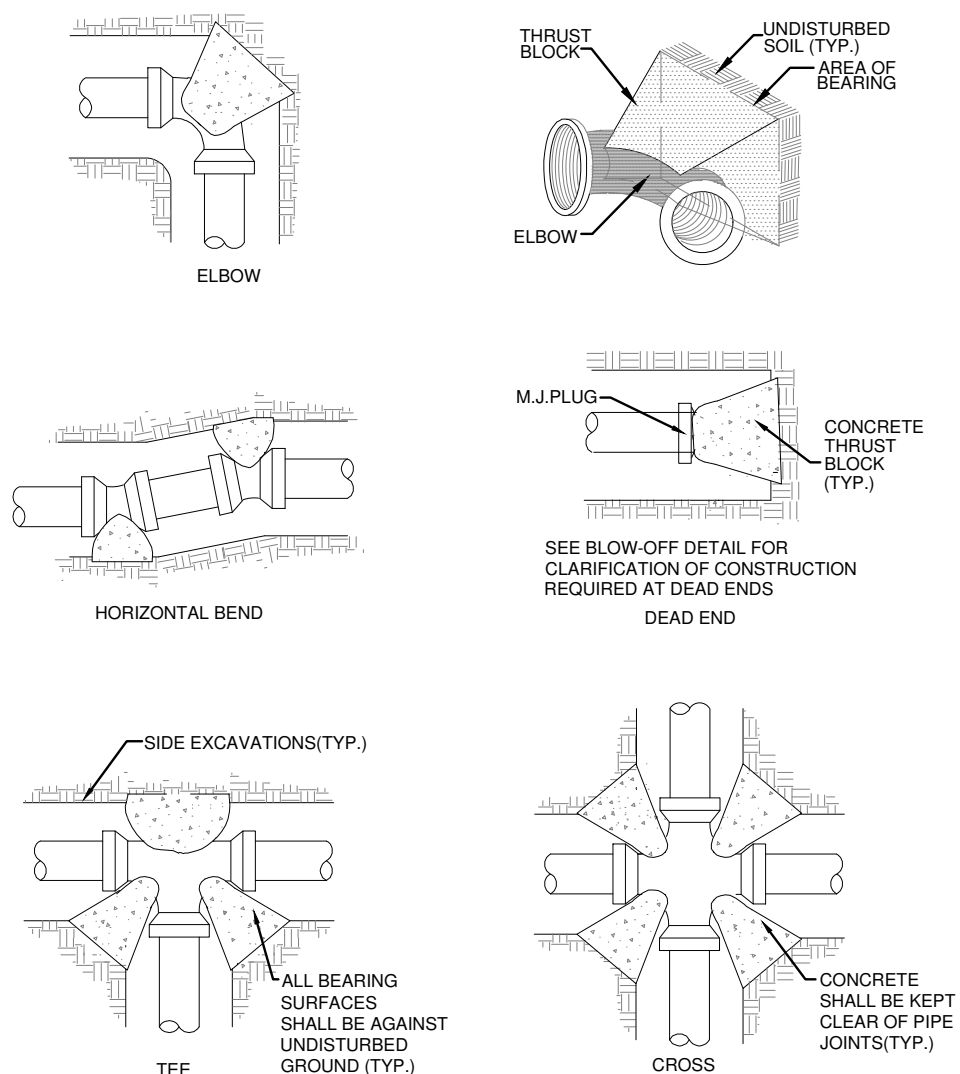


- NOTES:
1. DO NOT COVER BELLS OR FLANGES WITH CONCRETE.
 2. WRAP ALL FITTINGS WITH VISQUEEN.
 3. BACK ALL TEES ACCORDING TO SIZE OF BRANCH.
 4. BACKING FUTURE LINE EXTENSIONS SHALL BE SUCH THAT LATER REMOVAL IS POSSIBLE.
 5. ALL BENDS WHERE FITTINGS ARE USED, BOTH HORIZONTAL OR VERTICAL SHALL BE BACKED.
 6. REACTION BACKING TABLE IS BASED ON 200 P.S.I. AND SOIL BEARING PRESSURE OF 2,000 lb./sq.ft. ADDITIONAL BACKING MAY BE REQUIRED IN SOME AREAS AS DIRECTED.
 7. ALL CONCRETE SHALL BE 3000 P.S.I.

FITTING SIZE	MINIMUM BEARING AREA (SQUARE FEET)							
	22 1/2" BEND	45" BEND	90" BEND	TEE OR DEAD END	22 1/2" BEND	45" BEND	90" BEND	TEE OR DEAD END
4"	1,450	2,800	2	3,700	2	2,800	2	3,700
6"	2,900	5,800	3	7,600	3	5,800	3	7,600
8"	5,100	10,100	5	13,200	5	10,100	5	13,200
10"	8,300	16,500	8	21,500	8	16,500	8	21,500
12"	11,900	23,400	12	30,600	12	23,400	12	30,600
14"	16,100	31,800	16	41,500	16	31,800	16	41,500
16"	20,900	41,200	21	53,800	21	41,200	21	53,800

BEARING AREA SQUARE FEET	TYPICAL DIMENSIONS			MIN. DISTANCE FEET
	HORIZONTAL FEET	VERTICAL FEET		
2	2	1.5	1	1
3	2	1.5	1	1
4	2	1.5	1	1
5	2.5	1.7	1.25	1.25
7	3.5	1.7	1.5	1.5
8	3.5	1.7	1.5	1.5
10	5	2	2	2
16	5.3	2.25	2.25	2.25
21	6.4	2.75	3	3
27	7.2	3.75	3	3
30	9	4.5	3.5	3.5

VERTICAL THRUST BLOCKING

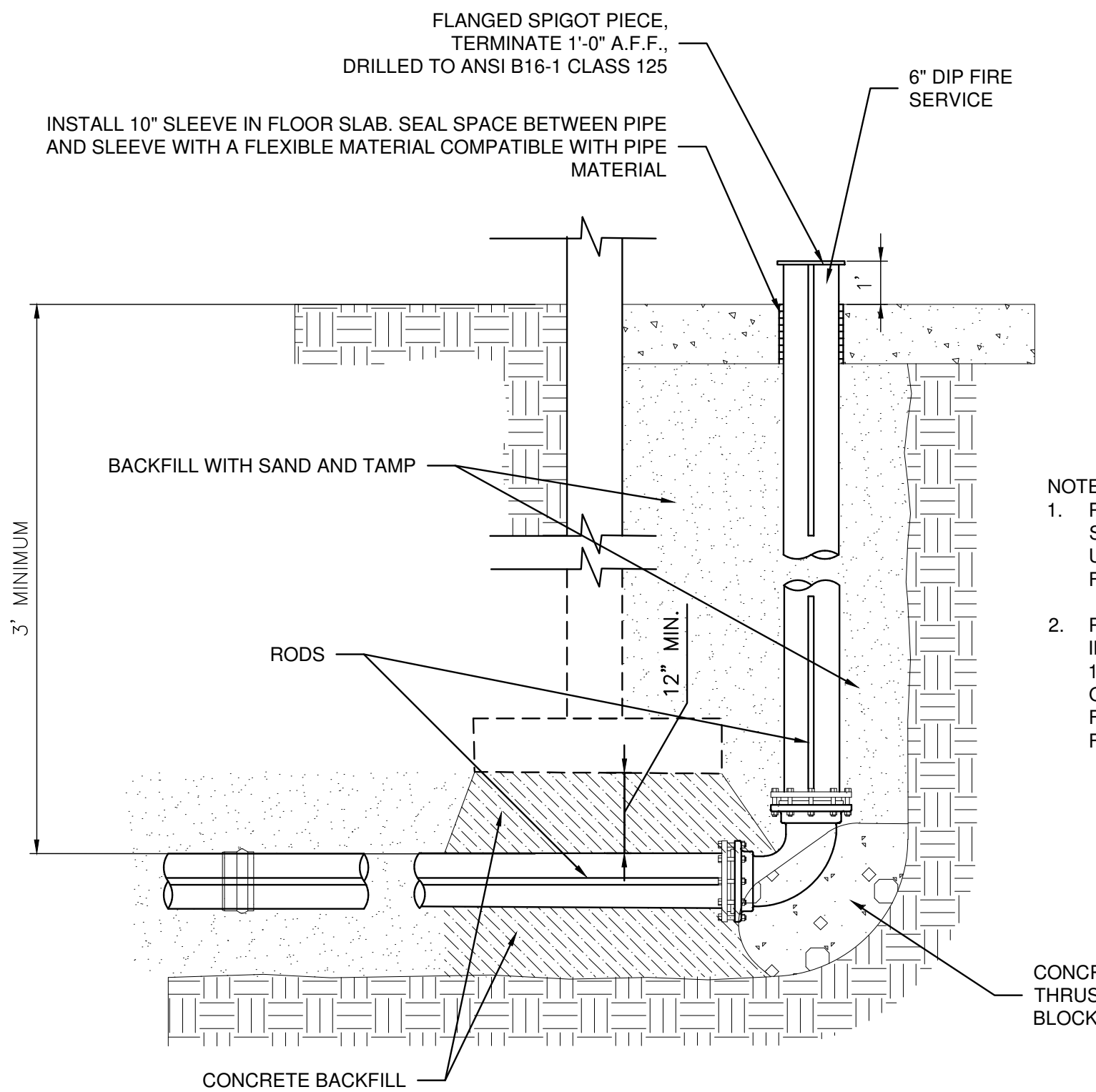


FITTING SIZE	MINIMUM BEARING AREA (SQUARE FEET)							
	22 1/2" BEND	45" BEND	90" BEND	TEE OR DEAD END	22 1/2" BEND	45" BEND	90" BEND	TEE OR DEAD END
4"	1,450	2,800	2	3,700	2	2,800	2	3,700
6"	2,900	5,800	3	7,600	3	5,800	3	7,600
8"	5,100	10,100	5	13,200	5	10,100	5	13,200
10"	8,300	16,500	8	21,500	8	16,500	8	21,500
12"	11,900	23,400	12	30,600	12	23,400	12	30,600
14"	16,100	31,800	16	41,500	16	31,800	16	41,500
16"	20,900	41,200	21	53,800	21	41,200	21	53,800

BEARING AREA SQUARE FEET	TYPICAL DIMENSIONS			MIN. DISTANCE FEET
	HORIZONTAL FEET	VERTICAL FEET		
2	2	1.5	1	1
3	2	1.5	1	1
4	2	1.5	1	1
5	2.5	1.7	1.25	1.25
7	3.5	1.7	1.5	1.5
8	3.5	1.7	1.5	1.5
10	5	2	2	2
16	5.3	2.25	2.25	2.25
21	6.4	2.75	3	3
27	7.2	3.75	3	3
30	9	4.5	3.5	3.5

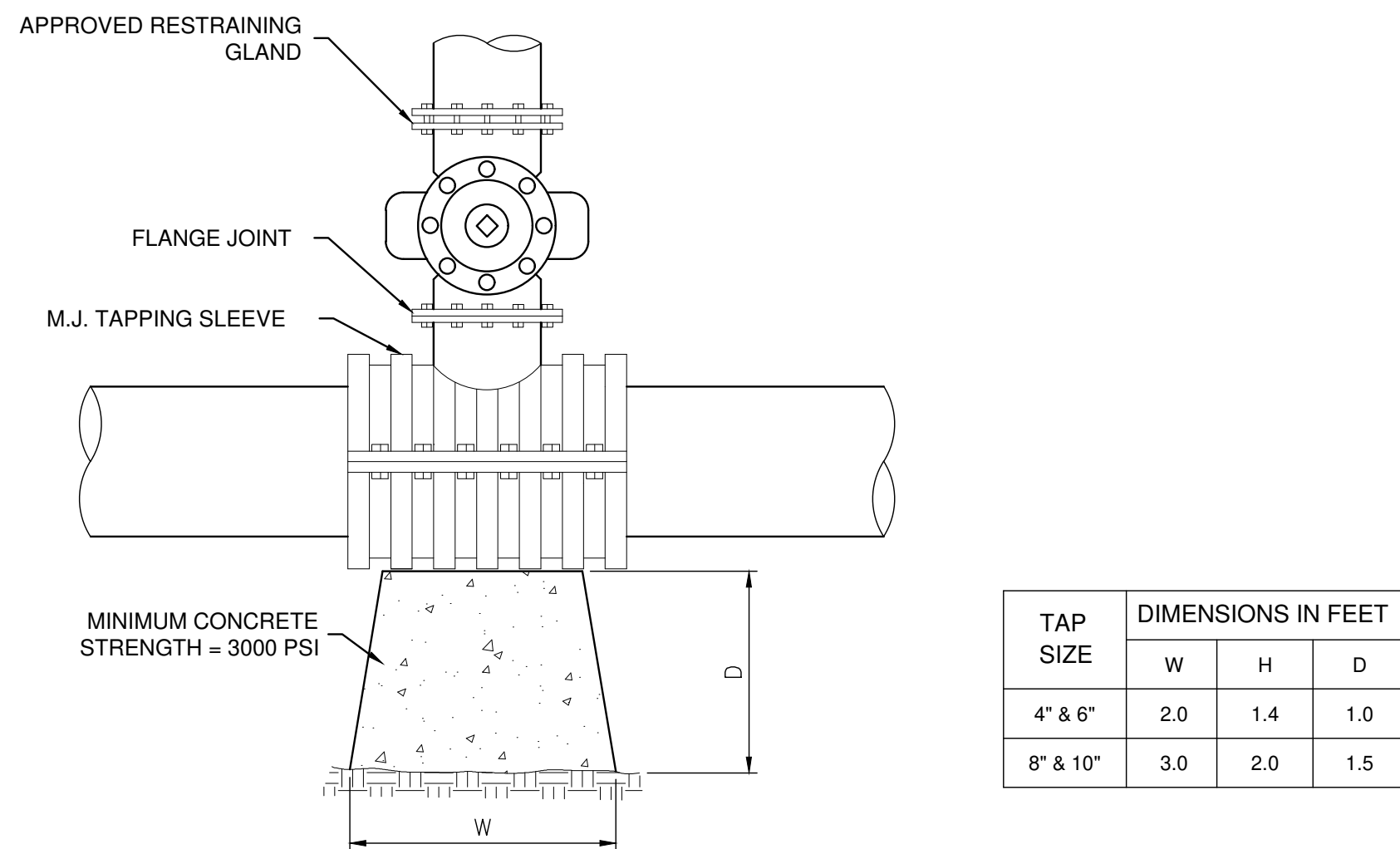
HORIZONTAL THRUST BLOCKING

E THRUST BLOCKING DETAILS
NOT TO SCALE



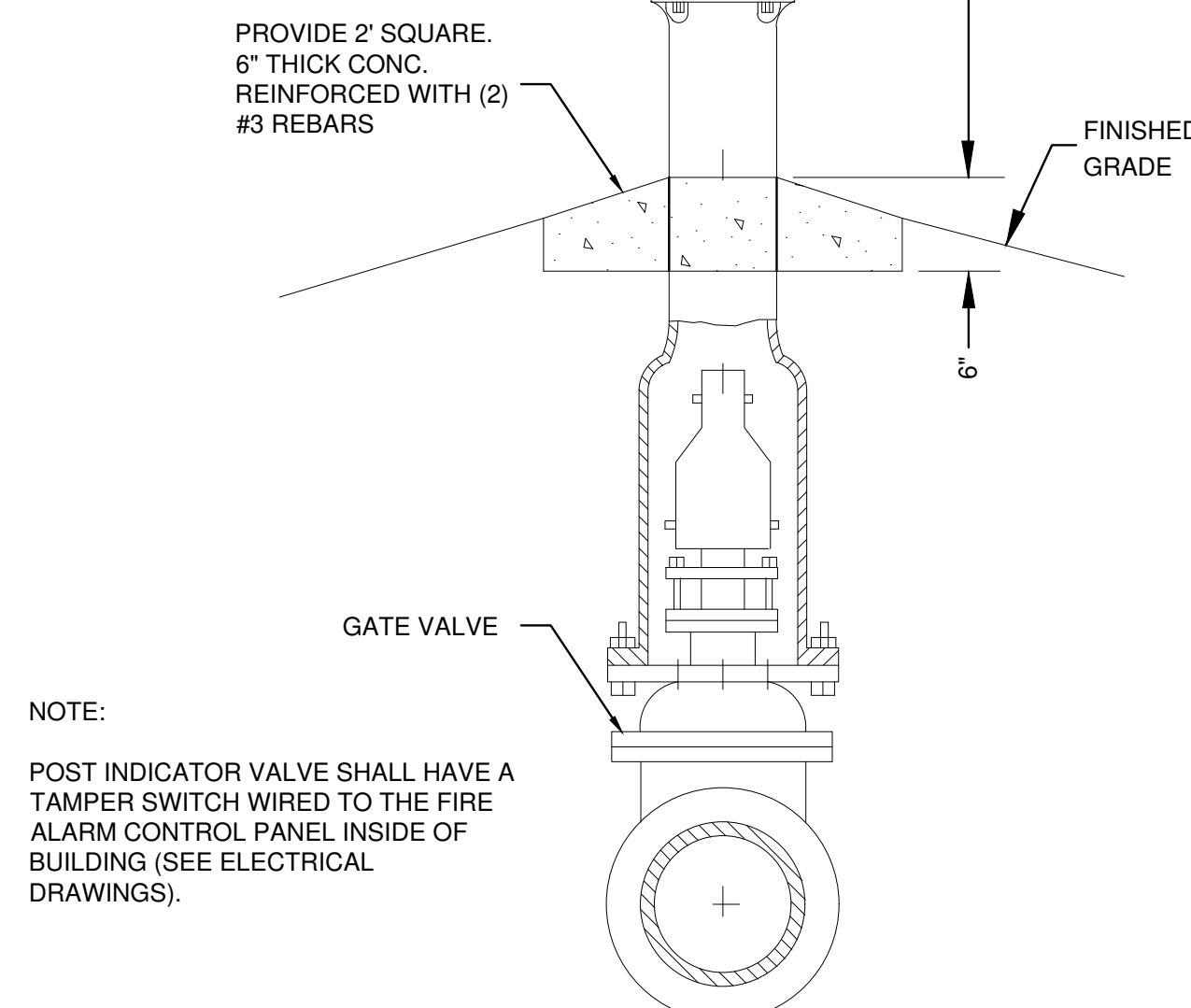
- NOTES:
1. PIPE OR PIPE JOINTS SHALL NOT BE LOCATED UNDER FOUNDATION FOOTINGS.
 2. PIPING SHALL BE INSTALLED A MINIMUM OF 12" BELOW THE BOTTOM OF BUILDING FOUNDATIONS OR FOOTERS.

F SPRINKLER SERVICE LEAD-IN DETAIL
NOT TO SCALE



G TAPPING SLEEVE
NOT TO SCALE

NEW INDICATOR POST SHALL CONFORM TO UNDERWRITERS LABORATORIES' STANDARD UL-789



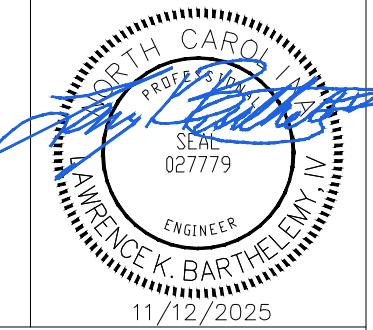
H POST INDICATOR VALVE
NOT TO SCALE

CRAIG GAULDEN DAVIS **PBK**

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Greenville, SC 29601
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Fax 864-501-9945
E-mail cgd@cgaarch.com

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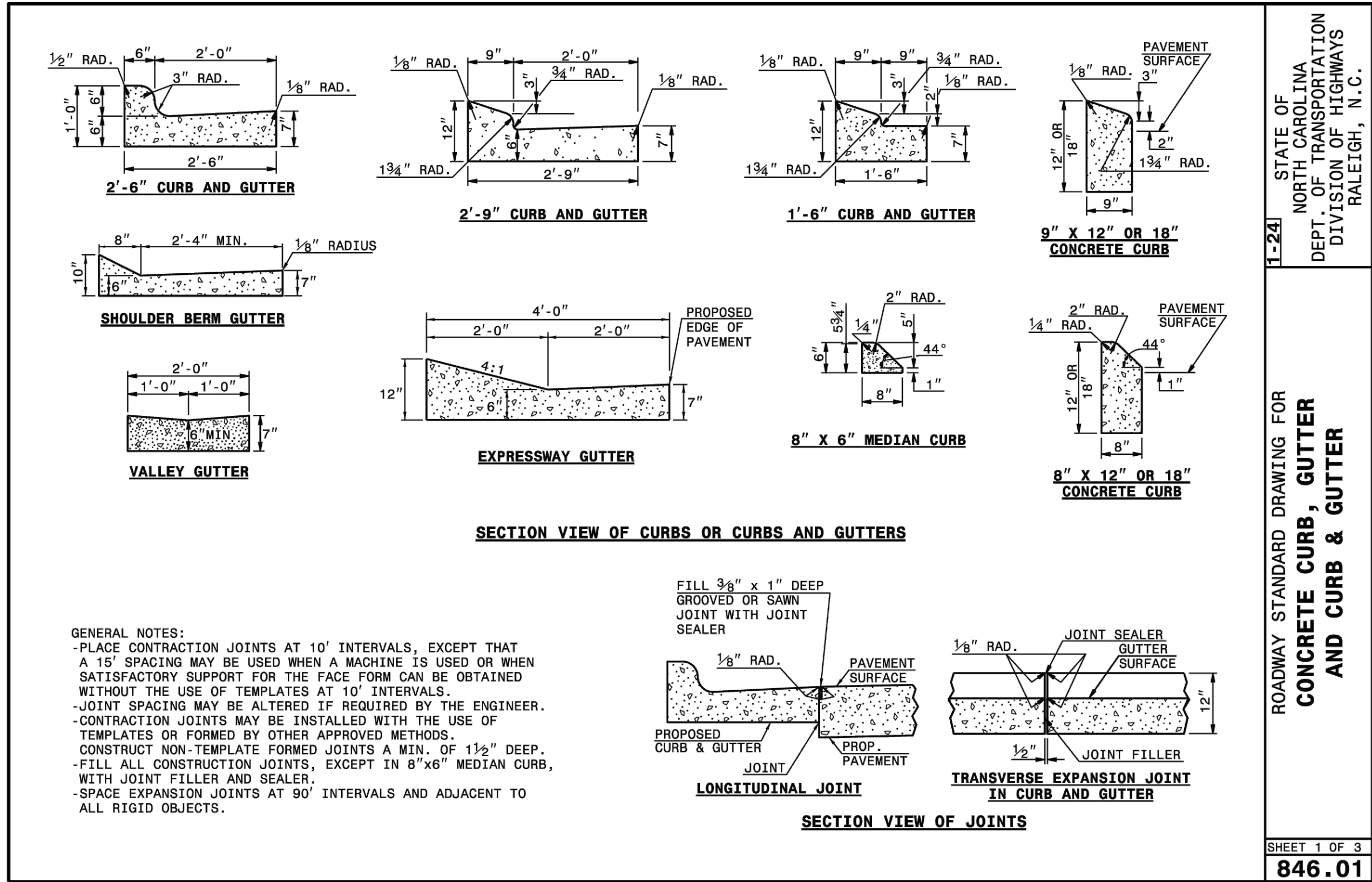
ADC
ENGINEERING
25 WOODS LAKE ROAD, SUITE 210
GREENVILLE, SC 29607
864-751-9121
NC COA #C-1572
ADCENGINEERING.COM

TOWN OF CANTON

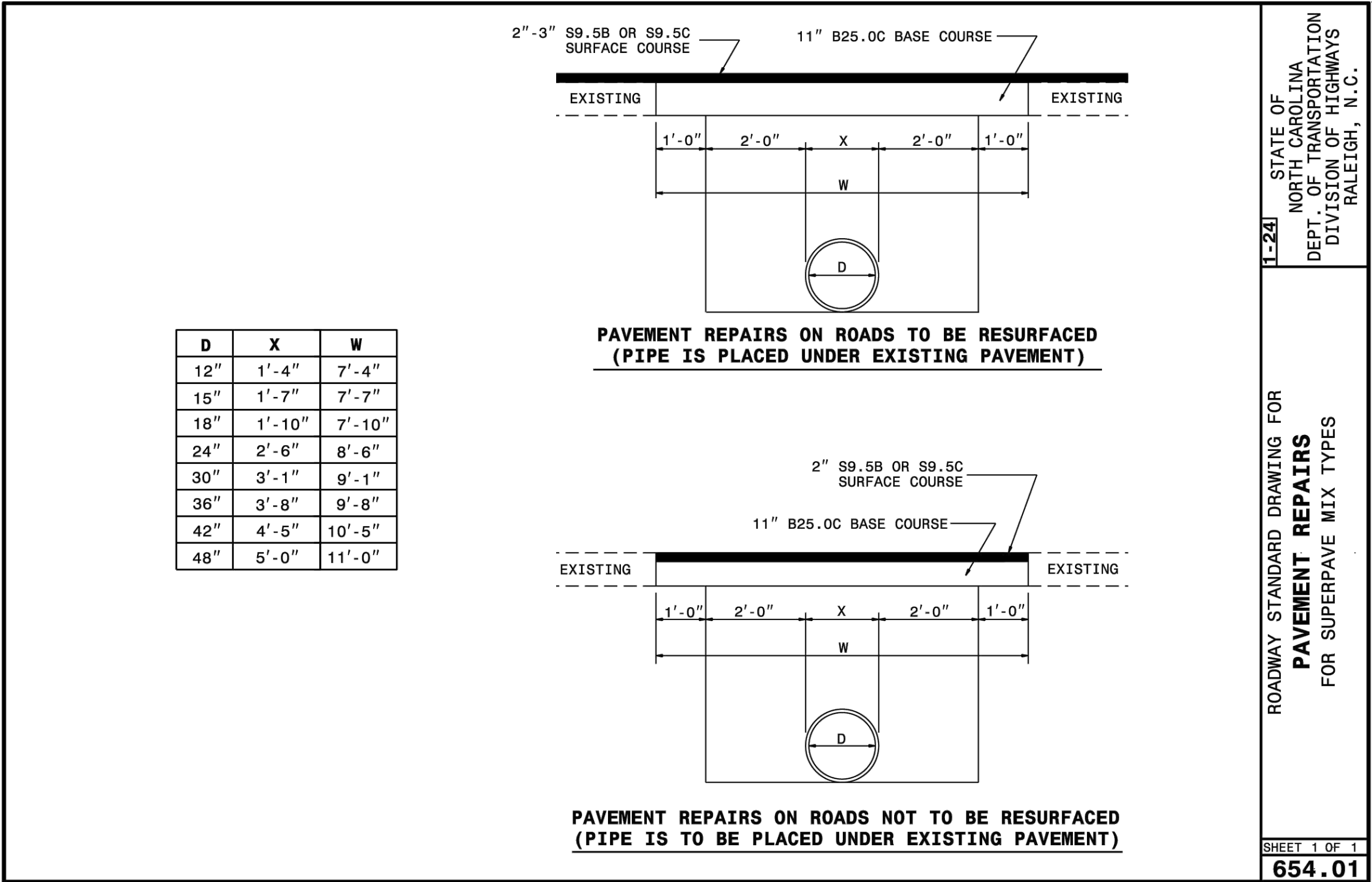
ARMORY COMMUNITY CENTER RENOVATION

71 PENLAND ST. CANTON, NC 28716

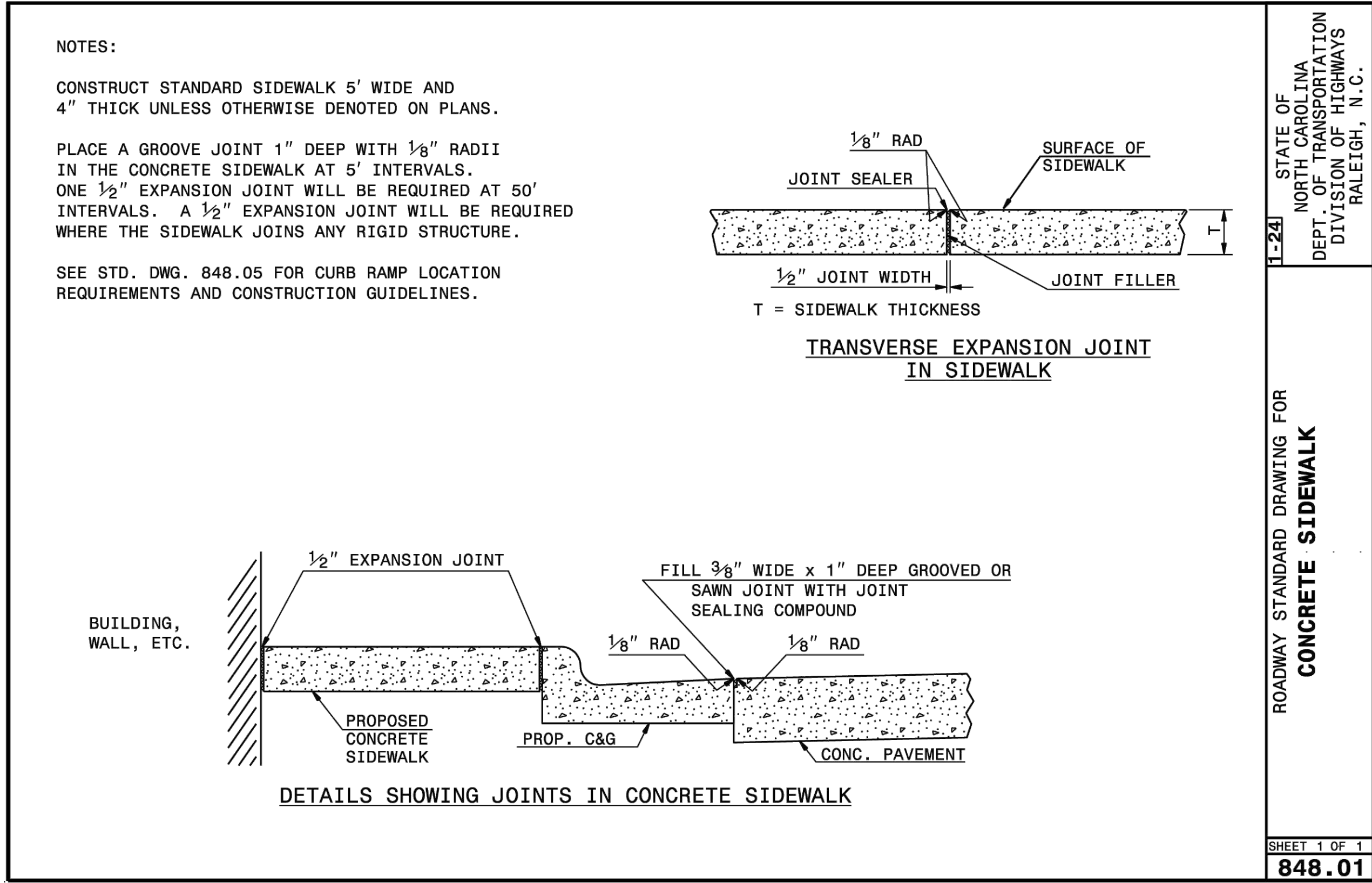
DATE MARK DESCRIPTION



A CURB AND GUTTER DETAIL



C OPEN CUT PAVEMENT REPAIR DETAIL
N.T.S.



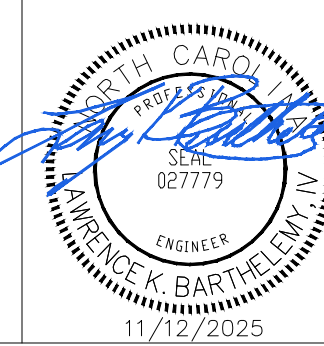
B CONCRETE SIDEWALK DETAIL

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NC COA #C-1572
ADCENGINEERING.COM

TOWN OF
CANTON

ARMORY
COMMUNITY
CENTER
RENOVATION

71 PENLAND ST. CANTON, NC 28716

DATE	MARK	DESCRIPTION
------	------	-------------

ISSUE: CONSTRUCTION DOCUMENTS
DATE: 11/12/2025
PROJECT NO: 25374
DRAWN BY: HP
CHECKED BY: LKB

CIVIL DETAILS -
UTILITY

C641

KEY NOTE LEGEND

- 01 WALL PADS AT STAGE EDGE & AROUND COLUMNS. SEE FINISH SHEETS FOR ADDITIONAL INFO.
- 02 INFILL WALL OPENING. TOOTH IN BRICK TO MATCH EXISTING COURSING, BRICK BANDING, AND COLOR.
- 03 POUR CONCRETE ON TOP OF EXISTING SLAB TO 0'-0" A.F.F.
- 04 STRIPING ON GYMNASIUM FLOOR FOR BASKETBALL, FOUR SQUARE, PICKLEBALL, VOLLEYBALL & METAL SLEEVES FOR NET POSTS
- 05 HATCH DENOTES NEW FLOOR JOIST AND SUBFLOOR. SEE STRUCTURAL DRAWINGS.
- 06 KITCHEN EQUIPMENT AND PLUMBING FIXTURES ARE ALL NEW. SEE "FS", "E", "P" SHEETS FOR ADDITIONAL INFO
- 07 CEILING MOUNTED MOTORIZED GOALS ATTACHED TO STRUCTURE ABOVE. SEE "S" & "E" DWGS FOR ADDITIONAL INFO.
- 08 CLEAN & PAINT RAILING
- 12 FILL GAP AGAINST WALL WITH CONCRETE. PREPARE FOR FINISH FLOOR.
- 13 ALTERNATE NO. 2: REMOVABLE FLOOD BARRIER PER SECTION 012300.1.5.B. AT THIS OPENING

FLOOR PLAN LEGEND

- 0 COLUMN GRID
- N TRUE NORTH
- F, "x" FEMA NOTE
- Room name 101 ROOM TAG
- Section / Elevation CALLOUT
- Name Elevation ELEVATION TARGET
- Window Tag. SEE WINDOW SCHEDULE FOR ADDITIONAL INFO.
- CENTER LINE
- NEW DOOR WITH DOOR TAG
- EXISTING DOOR
- TYPE
- FIRE EXTINGUISHER CABINET
- FEC(R) RECESSED
- FEC(S) SEMI RECESSED
- FEC(F) FLUSH MOUNTED
- FEB BRACKET MOUNTED
- FLOOR DRAIN
- HIGH & LOW ELECTRIC WATER COOLER W/ BOTTLE FILLER

WALL LEGEND

- EXISTING WALL
- CONCRETE
- CONCRETE MASONRY
- METAL STUD WALL WITH GYPSUM WALL BOARD
- 1 HOUR RATED
- 2 HOUR RATED
- 3 HOUR RATED

WALL LEGEND NOTES:

1. INTERIOR WALLS SHALL BE TYPE M6F UNLESS NOTED OTHERWISE.
2. PROVIDE J-MOLD WITH CAULK & BACKER ROD JOINT WHERE GWB ABUTS DISSIMILAR MATERIALS SUCH AS CMU AND GWB.
3. OUTSIDE CORNER OF CMU WALLS SHALL BE BULLNOSED UNLESS NOTED OTHERWISE.

WALL TYPES LEGEND

- FACING WALL STRUCTURE
- WALL STRUCTURE WIDTH
- FACING
- MODIFIER
- MODIFIER

FACING:

F Furring - 7/8" METAL HAT CHANNEL W/ 5/8" GWB

G Gypsum - 5/8" GWB

STRUCTURE:

C Concrete

M Masonry

S Metal Stud

SW Shaft Wall

TP Toilet Partition

W Wood Stud

WALL MODIFIER:

A Abuse resistant

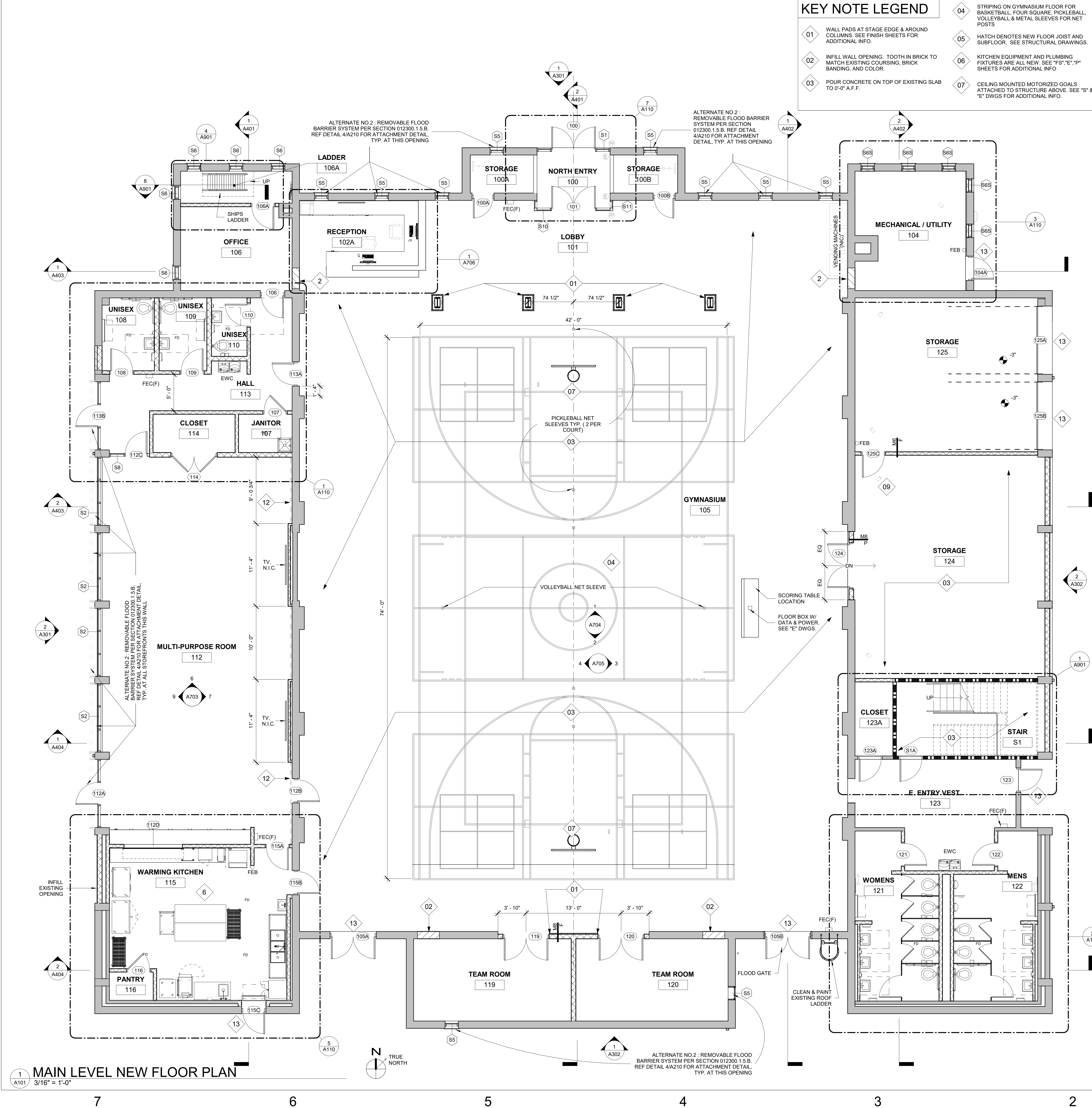
F Full height - extend to structure above

P Partial height - extend six inches above ceiling

S Sound - attenuation batt insulation

GENERAL FLOOR PLAN NOTES

1. Unless noted otherwise in the contract documents, dimensions identify:
- a. the centerline of columns and structural steel components,
- b. the centerline of interior studs,
- c. the face of exterior studs and/or
- d. the face of masonry and concrete walls.
2. All masonry dimensions indicate nominal dimensions. The contractor shall make proper allowances for joint materials in laying out the work.
3. Provide code approved wood blocking or sheet metal plates in hollow wall systems for attachment of any wall mounted accessories including, but not limited to, shelving, casework, toilet accessories, toilet partitions, light fixtures, benches, coat rods, televisions, audio-visual equipment, security cameras, sliding door tracks, marker boards, and mirrors.
4. Wall accessories such as fire extinguisher cabinets and paper towel dispensers that require a semi-recessed installation shall not reduce the fire rating of the wall. If a detail is not provided within the contract documents, the contractor shall consult the architect for proper details prior to installing the device.
5. Walls indicated by the finish schedule to be painted where no ceiling is indicated shall be painted to the upper limits of the wall construction. Refer to the finish schedule for painting of exposed structure and mechanical/electrical components.
6. All CMU walls, fire rated walls and sound rated partitions shall extend from finish floor to the underside of structural deck above. The top, bottom, sides and all piping and duct penetrations shall be sealed with appropriate fire resistive materials according to the applicable U.L. design assembly noted on the contract documents.
7. Unless noted otherwise in the contract documents by a wall type or specific note, all non-rated stud partitions shall extend to the deck above.
8. All metal studs shall be attached with 2 screws at 16" o.c. in the bottom and top tracks.
9. All exterior corners and ends of gypsum wall board partitions shall have metal corner beads unless noted otherwise.



MAIN LEVEL NEW FLOOR PLAN

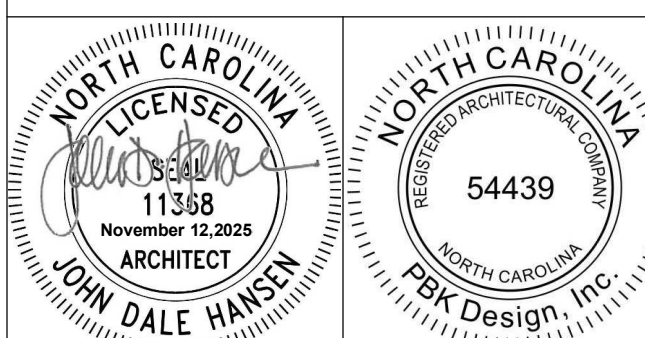
1 A101 3/16" = 1'-0"

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CONSULTANT

TOWN OF CANTON

ARMORY COMMUNITY CENTER RENOVATION

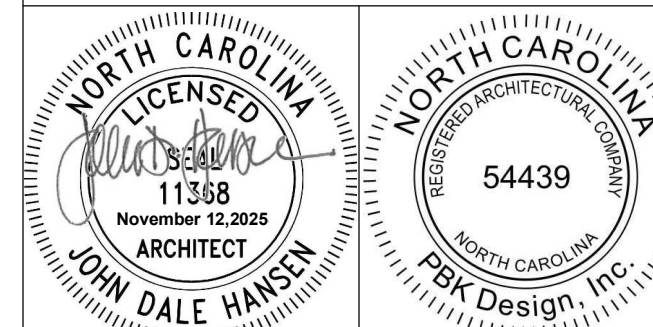
71 PENLAND ST., CANTON, NC 28716

DATE MARK DESCRIPTION

ISSUE: CONSTRUCTION DOCUMENTS
DATE: 11/12/2025
PROJECT NO: 23029
DRAWN BY: JH
CHECKED BY: JDH

MAIN LEVEL NEW FLOOR PLAN

A101



KEY NOTE LEGEND

- | | | | | | |
|----|---|----|---|----|--|
| 01 | WALL PADS AT STAGE EDGE & AROUND COLUMNS. SEE FINISH SHEETS FOR ADDITIONAL INFO. | 04 | STRIPING ON GYMNASIUM FLOOR FOR BASKETBALL, FOUR SQUARE, PICKLEBALL, VOLLEYBALL & METAL SLEEVES FOR NET POSTS | 08 | CLEAN & PAINT RAILING |
| 02 | INFILL WALL OPENING. TOOTH IN BRICK TO MATCH EXISTING COURSING, BRICK BANDING, AND COLOR. | 05 | HATCH DENOTES NEW FLOOR JOIST AND SUBFLOOR. SEE STRUCTURAL DRAWINGS. | 12 | FILL GAP AGAINST WALL WITH CONCRETE. PREPARE FOR FINISH FLOOR. |
| 03 | POUR CONCRETE ON TOP OF EXISTING SLAB TO 0'-0" A.F.F. | 06 | KITCHEN EQUIPMENT AND PLUMBING FIXTURES ARE ALL NEW. SEE "FS", "E", "P" SHEETS FOR ADDITIONAL INFO | 13 | ALTERNATE NO. 2 : REMOVABLE FLOOD BARRIER PER SECTION 012300. 1.5 B. AT THIS OPENING |
| | | 07 | CEILING MOUNTED MOTORIZED GOALS ATTACHED TO STRUCTURE ABOVE. SEE "S" & "E" DWGS FOR ADDITIONAL INFO. | | |

FLOOR PLAN LEGEND

- | | |
|-------------------|--|
| 0 | COLUMN GRID |
| N | NORTH ARROW |
| F, "x" | FEMA NOTE |
| Room name
101 | ROOM TAG |
| 1
A101 | SECTION / ELEVATION CALLOUT |
| Name
Elevation | ELEVATION TARGET |
| W1 | WINDOW TAG. SEE WINDOW SCHEDULE FOR ADDITIONAL INFO. |
| CL | CENTER LINE |
| 101 | NEW DOOR WITH DOOR TAG |
| EXISTING DOOR | |
| FEB | FIRE EXTINGUISHER CABINET |
| FEC(X) | FEC(R) RECESSED
FEC(S) SEMI RECESSED
FEC(F) FLUSH MOUNTED
FEB BRACKET MOUNTED |
| FD | FLOOR DRAIN |
| EW | HIGH & LOW ELECTRIC WATER COOLER W/ BOTTLE FILLER |

WALL LEGEND

- | | |
|--|--|
| EXISTING WALL | |
| CONCRETE | |
| CONCRETE MASONRY | |
| METAL STUD WALL WITH GYPSUM WALL BOARD | |
| 1 HOUR RATED | |
| 2 HOUR RATED | |
| 3 HOUR RATED | |

WALL LEGEND NOTES:

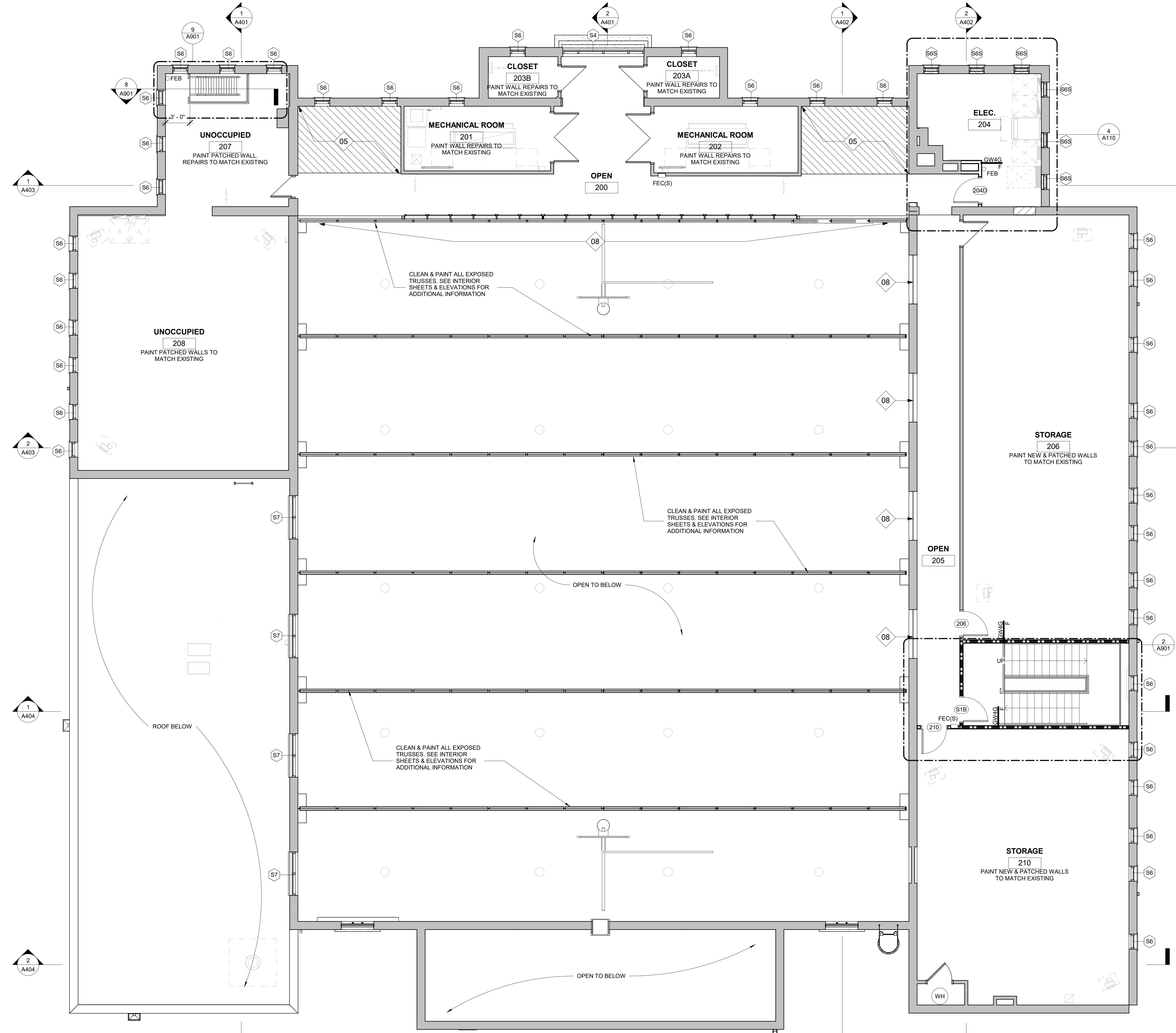
- INTERIOR WALLS SHALL BE TYPE M6F UNLESS NOTED OTHERWISE.
- PROVIDE J-MOLD WITH CAULK AND BACKER ROD JOINT WHERE GWB ABUTS DISSIMILAR MATERIALS SUCH AS CMU AND GWB.
- OUTSIDE CORNER OF CMU WALLS SHALL BE BULLNOSED UNLESS NOTED OTHERWISE.

WALL TYPES LEGEND

- | | |
|---------------|--|
| FACING | |
| F | Furring - 7/8" METAL HAT CHANNEL W/ 5/8" GWB |
| G | Gypsum - 5/8" GWB |
| STRUCTURE | |
| C | Concrete |
| M | Masonry |
| S | Metal Stud |
| SW | Shelf Wall |
| TP | Toilet Partition |
| W | Wood Stud |
| WALL MODIFIER | |
| A | Abuse resistant |
| F | Full height - extend to structure above |
| P | Partial height - extend six inches above ceiling |
| S | Sound - attenuation batt insulation |

GENERAL FLOOR PLAN NOTES

- Unless noted otherwise in the contract documents, dimensions identify:
 - the centerline of columns and structural steel components,
 - the centerline of interior studs,
 - the face of exterior studs and/or
 - the face of masonry and concrete walls.
- All masonry dimensions indicate nominal dimensions. The contractor shall make proper allowances for joint materials in laying out the work.
- Provide code approved wood blocking or sheet metal plates in hollow wall systems for attachment of any wall mounted accessories including, but not limited to, shelving, casework, toilet accessories, toilet partitions, light fixtures, benches, coat rods, televisions, audio-visual equipment, security cameras, sliding door tracks, marker boards, and mirrors.
- Wall accessories such as fire extinguisher cabinets and paper towel dispensers that require a semi-recessed installation shall not reduce the fire rating of the wall. If a detail is not provided within the contract documents, the contractor shall consult the architect for proper details prior to installing the device.
- Walls indicated by the finish schedule to be painted where no ceiling is indicated shall be painted to the upper limits of the wall construction. Refer to the finish schedule for painting of exposed structure and mechanical/electrical components.
- All CMU walls, fire rated walls and sound rated partitions shall extend from finish floor to the underside of structural deck above. The top, bottom, sides and all piping and duct penetrations shall be sealed with appropriate fire resistive materials according to the applicable U.L. design assembly noted on the contract documents.
- Unless noted otherwise in the contract documents by a wall type or specific note, all non-rated stud partitions shall extend to the deck above.
- All metal studs shall be attached with 2 screws at 16" o.c. in the bottom and top tracks.
- All exterior corners and ends of gypsum wall board partitions shall have metal corner beads unless noted otherwise.



1 UPPER LEVEL NEW FLOOR PLAN

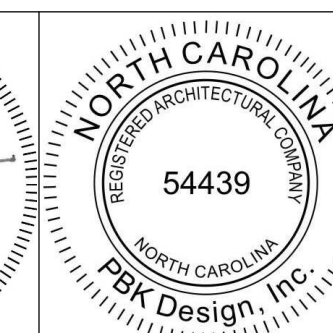
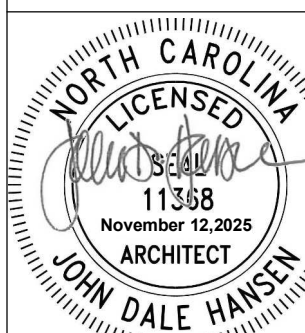
A102 3/16" = 1'-0"

CRAIG
GAULDEN
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CONSULTANT

TOWN OF
CANTON

ARMORY
COMMUNITY
CENTER
RENOVATION

71 PENLAND ST., CANTON, NC 28716

DATE MARK DESCRIPTION

ISSUE: CONSTRUCTION DOCUMENTS

DATE: 11/12/2025

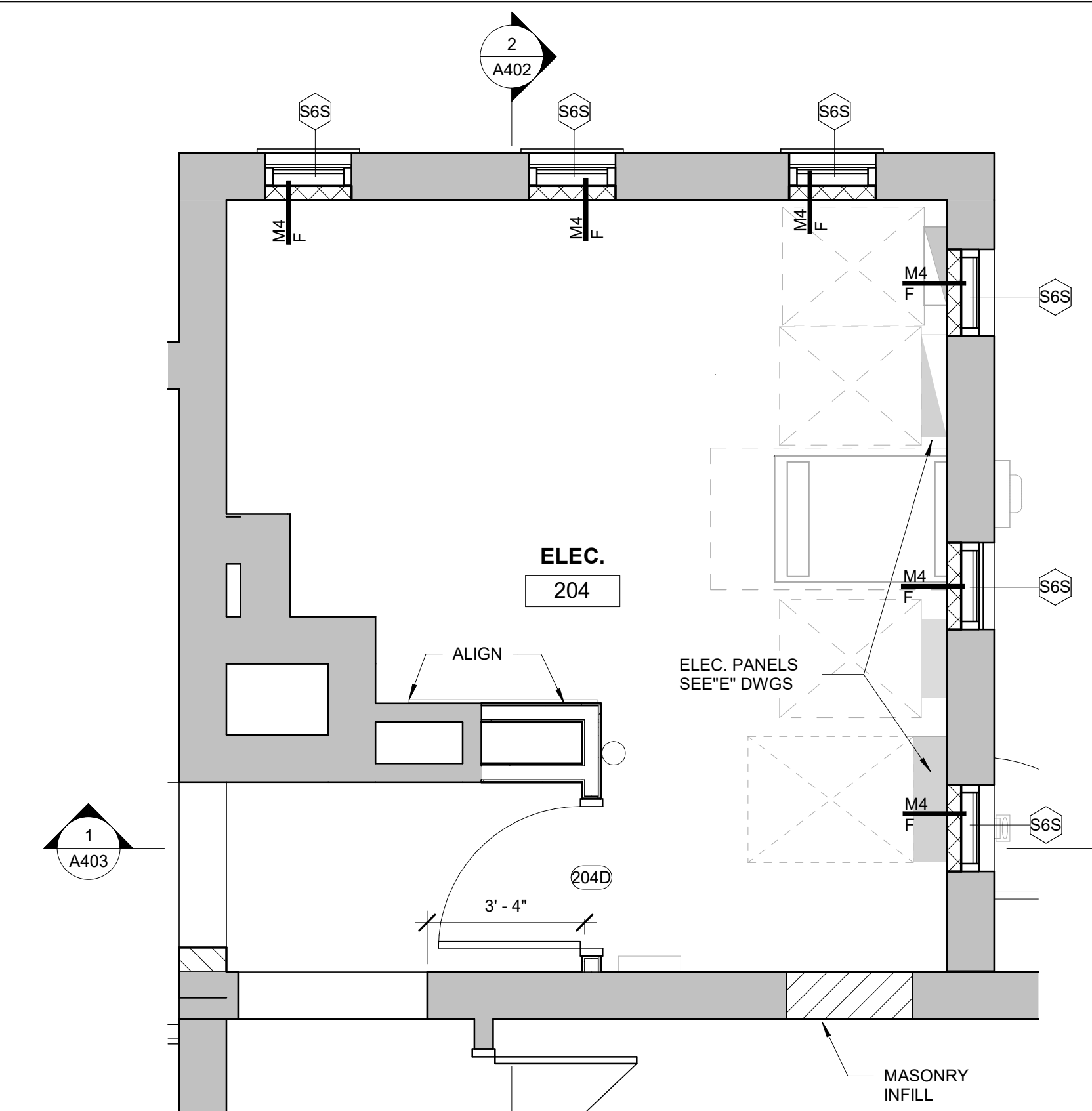
PROJECT NO: 23029

DRAWN BY: AJB

CHECKED BY: JDH

ENLARGED FLOOR
PLANS

A110

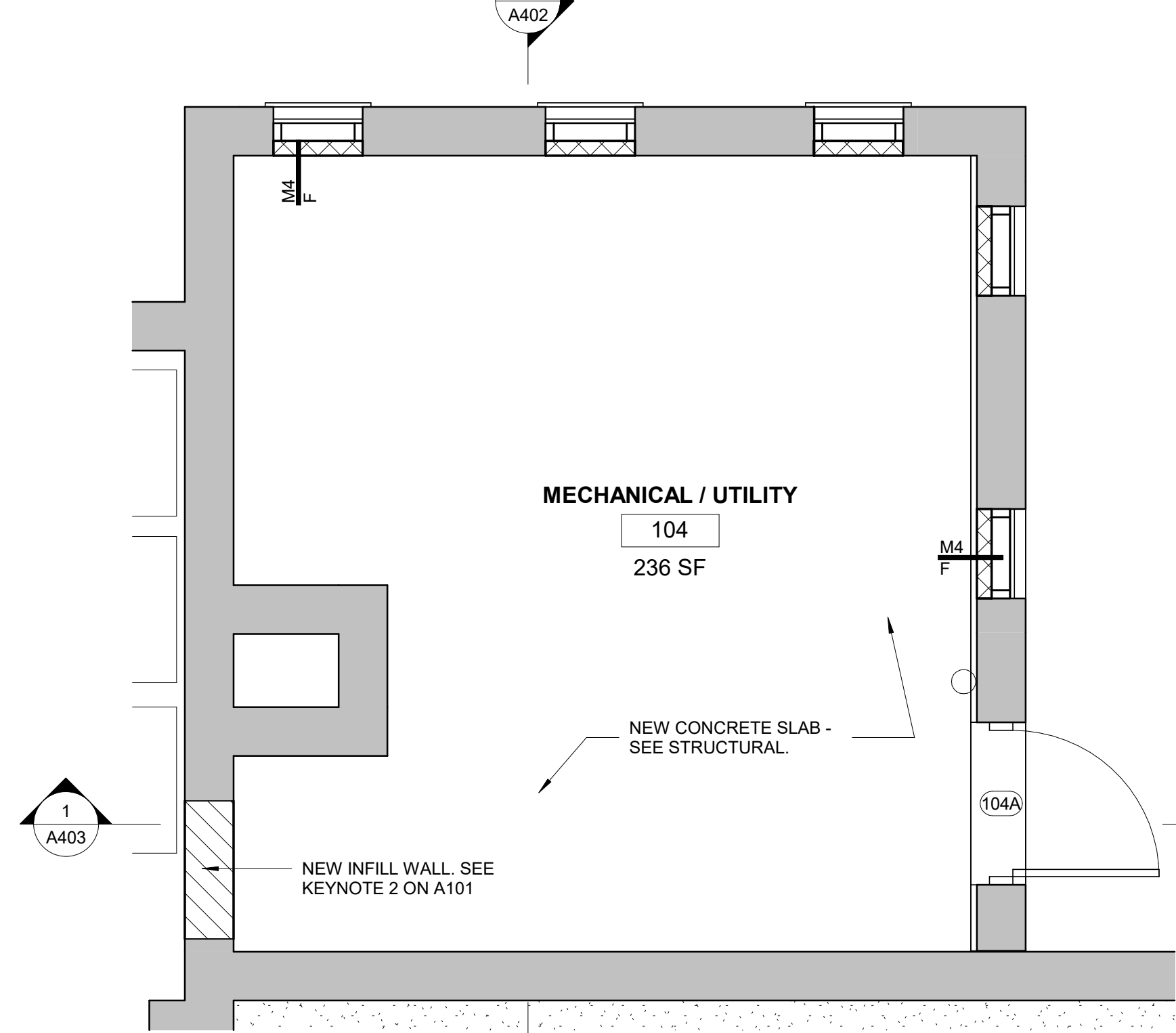


ENLARGED PLAN - UPPER LEVEL
ELEC. ROOM

1
A403
3/8" = 1'-0"

4
A110

3/8" = 1'-0"



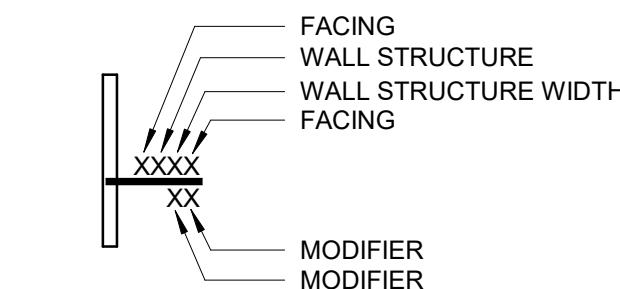
ENLARGED PLAN - MECHANICAL ROOM

3
A110
3/8" = 1'-0"

3
A110

3/8" = 1'-0"

WALL TYPES LEGEND



FACING:	Furring - 7/8" METAL HAT CHANNEL W/ 5/8" GWB
F	Oppium - 5/8" GWB
G	
STRUCTURE:	
C	Concrete
M	Masonry
S	Metal Stud
SW	Shaft Wall
TP	Toilet Partition
W	Wood Stud
WALL MODIFIER:	
A	Abuse resistant
F	Full height - extend to structure above
P	Partial height - extend six inches above ceiling
S	Sound - attenuation batt insulation

TOILET ACCESSORY LEGEND

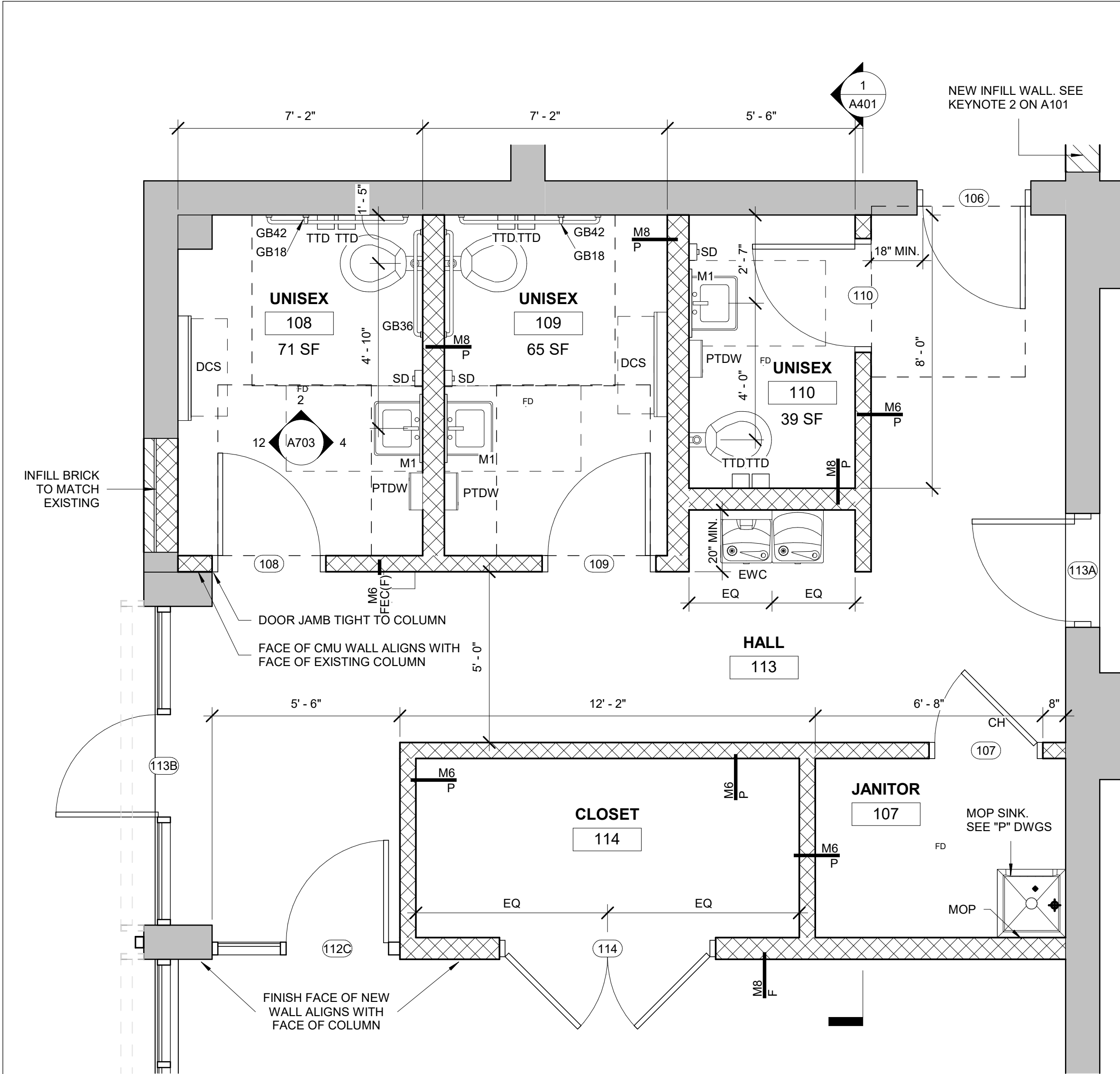
PTD	PAPER TOWEL DISPENSER
TTD	TOILET TISSUE DISPENSER
GB42	42" GRAB BAR
GB36	36" GRAB BAR
GB18	18" GRAB BAR (VERTICAL MOUNT)
M1	24" x 36" MIRROR
M2	24" x 48" MIRROR
CH	COAT HOOK
MOP	MOP RACK
SND	SANITARY NAPKIN DISPOSAL UNIT
SD	AUTOMATIC SOAP DISPENSER
PTDW	COMBINATION PAPER TOWEL DISPENSER & WASTE RECEPTACLE
EWC	ELECTRIC WATER COOLER
DCS	DIAPER CHANGING STATION (FOLDING WALL MOUNTED UNIT)
WS	WALL MOUNTED STAINLESS STEEL BATHROOM SHELF (18" x 4" x 5")
FD	FLOOR DRAIN. SEE "P" DRAWINGS

TOILET ACCESSORY NOTES

- GC SHALL FURNISH AND INSTALL 2x4 WOOD BLOCKING AS REQUIRED TO SECURELY FASTEN ALL TOILET ACCESSORIES.

TOILET NOTES

- OUTSIDE CORNER OF CMU WALLS SHALL BE BULLNOSED UNLESS NOTED OTHERWISE.

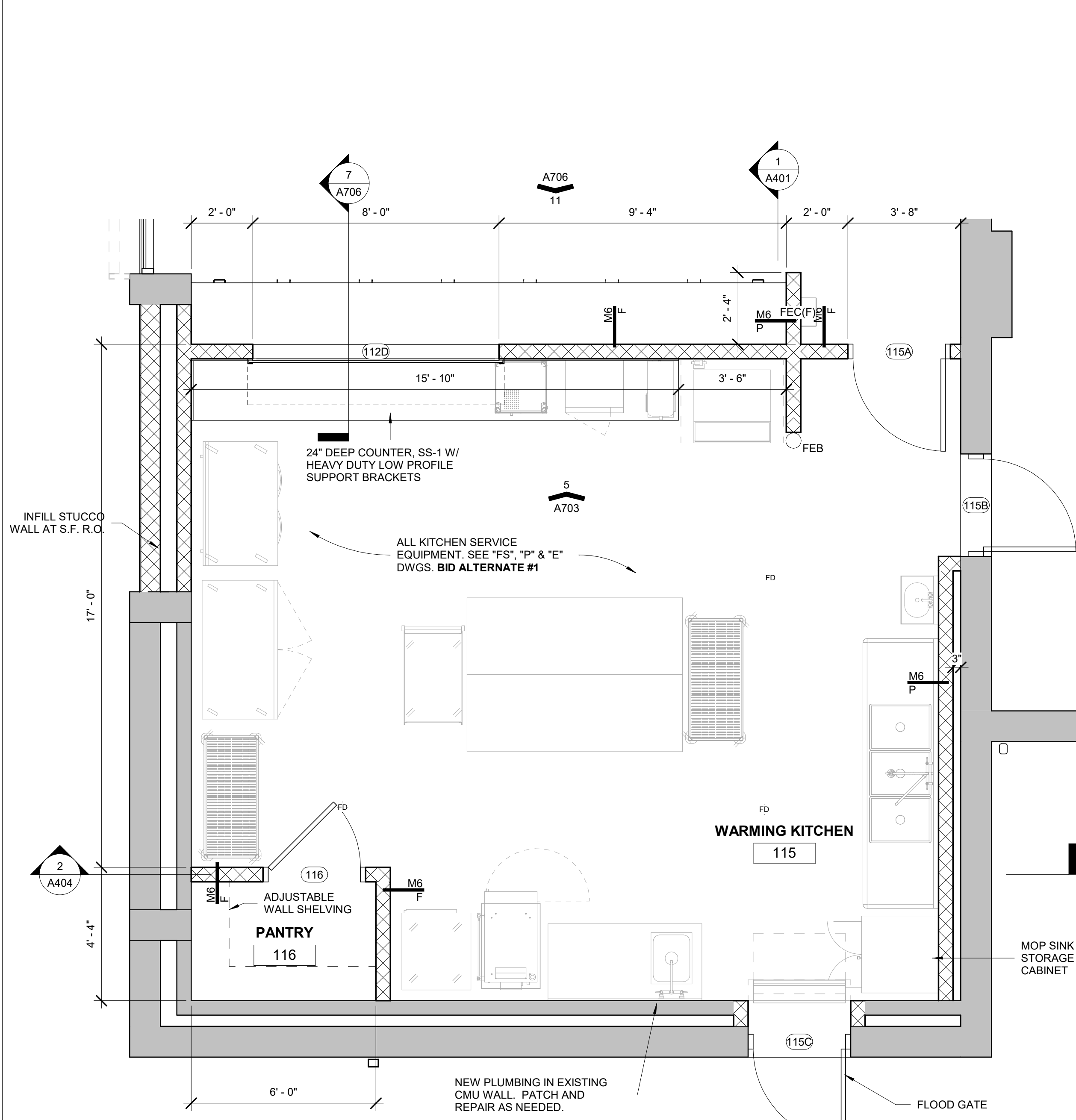


ENL. PLAN - MP RESTROOMS

1
A110
3/8" = 1'-0"

1
A110

3/8" = 1'-0"

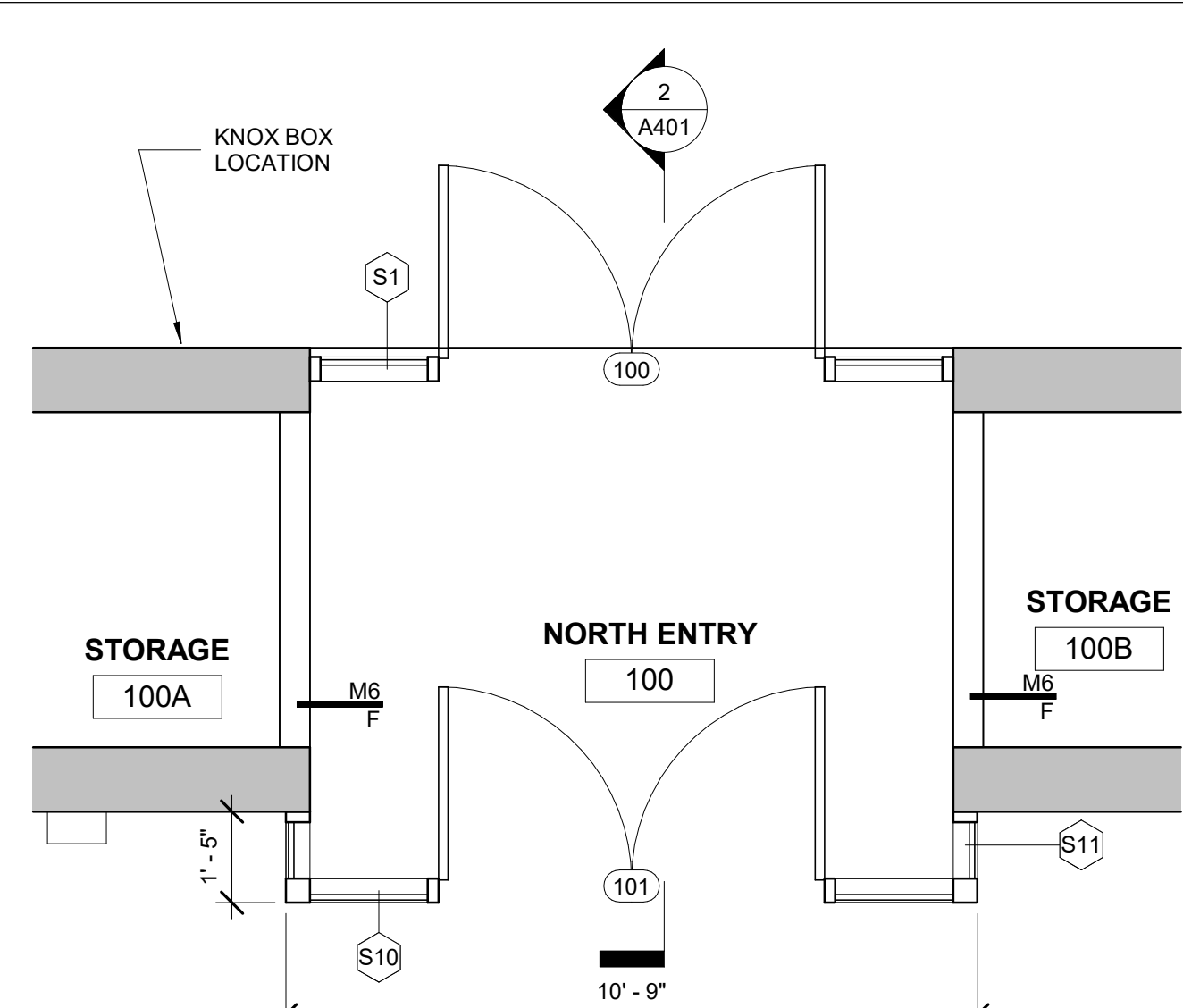


ENLARGED PLAN - WARMING KITCHEN

5
A110
3/8" = 1'-0"

5
A110

3/8" = 1'-0"



ENL. PLAN - NORTH ENTRY VEST.

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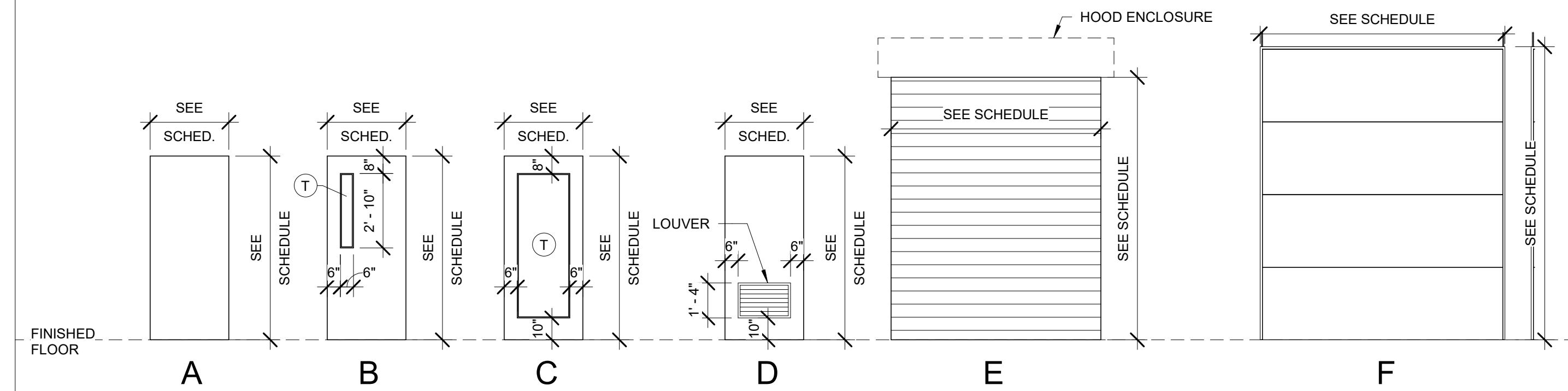
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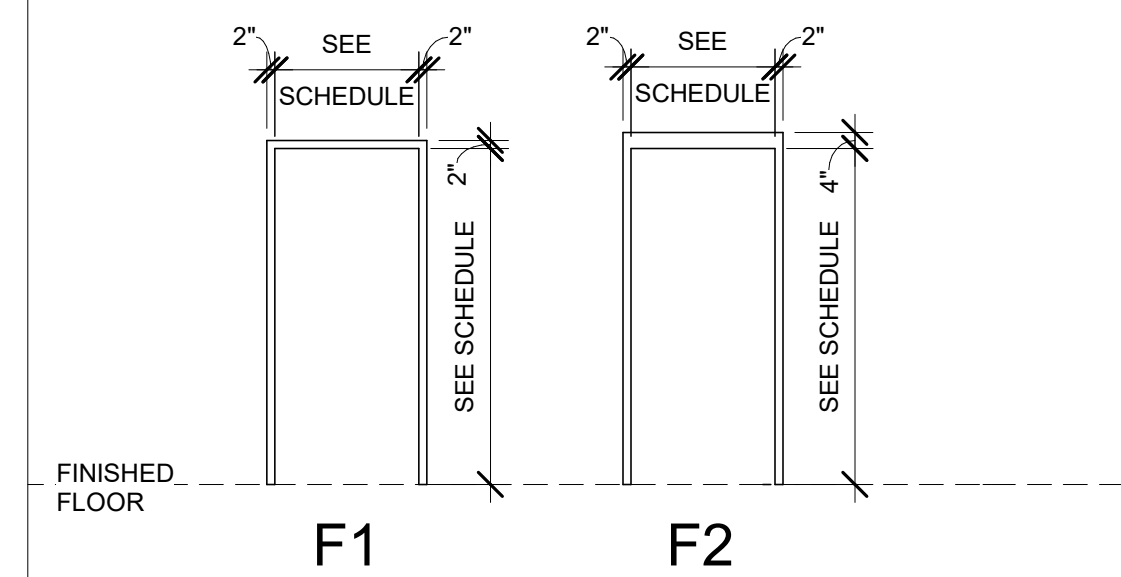
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3/8" = 1'-0"

DOOR LEGEND



FRAME LEGEND



DOOR ABBREVIATION LEGEND

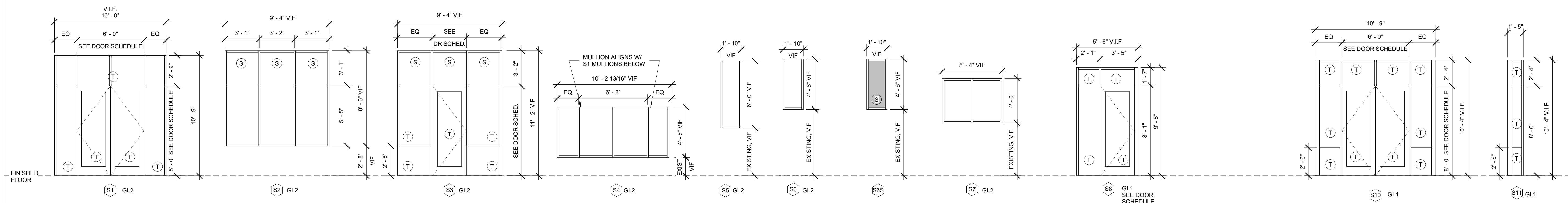
HM	HOLLOW METAL
SCW	SOLID CORE WOOD
TEMP	TEMPERED
PR	PAIR
ALUM	ALUMINUM
FG	DEPLOYABLE FLOOD GATE. SEE SPECS

GLAZING LEGEND

GL1	INTERIOR GLAZING (SEE SPECS)
GL2	EXTERIOR GLAZING (SEE SPECS)
(T)	TEMPERED SAFETY GLASS
(S)	SPANDREL GLASS

NOTE: SEE SPECIFICATIONS FOR DETAILED DESCRIPTIONS OF THE VARIOUS GLAZING TYPES.

STOREFRONT LEGEND



Door Schedule												
DOOR NUMBER	DOOR				FRAME				HARDWARE	Fire Rating	REMARKS	
	WIDTH	HEIGHT	TYPE	MATL	TYPE	MATL	HEAD	JAMB				
100	6' - 0"	8' - 0"	C	ALUM	S1	ALUM	1A/210	5A/210	HW-01		PR, GL2 GLAZING, FG, ADA DOOR OPERATOR	
100A	2' - 8"	7' - 8"	A	HM	F2	HM	M6H	M6J	HW-02		FRAME SIZE TO MATCH EXISTING MASONRY OPENING, FIELD VERIFY	
100B	2' - 8"	7' - 8"	A	HM	F2	HM	M6H	M6J	HW-02		FRAME SIZE TO MATCH EXISTING MASONRY OPENING, FIELD VERIFY	
101	6' - 0"	8' - 0"	C	ALUM	F2	ALUM	1A/210	5A/210	HW-03		PR, GL1 GLAZING, FG, ADA DOOR OPERATOR	
104A	3' - 0"	7' - 0"	A	HM	F2	HM	3A/210	7A/210	HW-04		FG	
105A	6' - 0"	7' - 0"	A	HM	F2	HM	3A/210	7A/210	HW-05		PR, FG	
105B	6' - 0"	7' - 0"	A	HM	F2	HM	3A/210	7A/210	HW-05		PR, FG	
106	3' - 0"	7' - 0"	C	HM	F2	HM	3A/210	7A/210	HW-11			
106A	3' - 0"	7' - 0"	A	HM	F2	HM	M6H	M6J	HW-20			
107	3' - 0"	7' - 0"	A	HM	F2	HM	M6H	M6J	HW-02			
108	3' - 0"	7' - 0"	A	HM	F2	HM	M6H	M6J	HW-06			
109	3' - 0"	7' - 0"	A	HM	F2	HM	M6H	M6J	HW-06			
110	3' - 0"	7' - 0"	A	HM	F2	HM	M6H	M6J	HW-06			
112A	3' - 0"	8' - 0"	C	ALUM	S3	ALUM	1A/210	5A/210	HW-08		FG	
112B	3' - 0"	7' - 0"	B	HM	F2	HM	3A/210	7A/210	HW-07		PR	
112C	3' - 0"	8' - 0"	C	ALUM	S8	ALUM	1A/210	5A/210	HW-09			
112D	8' - 0"	4' - 6"	E	STL, PTD		ALUM	M6H-C	M6J-C	HW-10		ABOVE COUNTER OVERHEAD COILING DOOR	
113A	3' - 0"	7' - 0"	C	HM	F2	HM	3A/210	7A/210	HW-07			
113B	3' - 0"	8' - 0"	C	ALUM	S3	ALUM	1A/210	5A/210	HW-08		FG	
114	6' - 0"	7' - 0"	A	HM	F2	HM	3A/210	7A/210	HW-12		PR	
115A	3' - 0"	7' - 0"	B	HM	F2	HM	3A/210	7A/210	HW-13			
115B	3' - 0"	7' - 0"	A	HM	F2	HM	3A/210	7A/210	HW-07			
115C	3' - 0"	7' - 0"	A	HM	F2	HM	3A/210	7A/210	HW-14		AIR CURTAIN; FG	
116	3' - 0"	7' - 0"	A	HM	F2	HM	3A/210	7A/210	HW-15			
119	6' - 0"	7' - 0"	B	HM	F2	HM	M8H	M8J	HW-16			
120	6' - 0"	7' - 0"	B	HM	F2	HM	M8H	M8J	HW-16			
121	3' - 0"	7' - 0"	D	HM	F2	HM	M6H	M6J	HW-17			
122	3' - 0"	7' - 0"	D	HM	F2	HM	M6H	M6J	HW-17			
123	3' - 0"	7' - 0"	C	ALUM	F2	ALUM	1A/210	5A/210	HW-08		FG	
123A	3' - 0"	7' - 0"	A	HM	F2	HM	M6H	M6J	HW-02			
124	6' - 0"	7' - 10"	A	HM	F2	HM	M8H	M8J	HW-18		PR	
125A	9' - 2"	11' - 1"	F	HM			12/A210	8A/210	HW-10		6 PANEL OVERHEAD GARAGE DOOR, FG	
125B	9' - 2"	11' - 1"	F	HM			12/A210	8A/210	HW-10		6 PANEL OVERHEAD GARAGE DOOR, FG	
125C	3' - 0"	7' - 0"	C	HM	F2	HM	3A/210	7A/210	HW-02			
204D	3' - 0"	7' - 0"	B	HM	F1	HM	GW4GH	GW4GJ	HW-19			
206	3' - 0"	7' - 0"	B	HM	F1	HM	GW4GH	GW4GJ	HW-02			
210	3' - 0"	7' - 0"	B	HM	F1	HM	GW4GH	GW4GJ	HW-02			
S1A	3' - 0"	7' - 0"	B	HM	F2	HM	M6H	M6J	HW-20	60 MIN		
S1B	3' - 0"	7' - 0"	B	HM	F1	HM	GW4GH	GW4GJ	HW-21	60 MIN		

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CONSULTANT

TOWN OF
CANTON

ARMORY COMMUNITY CENTER RENOVATION

1 PENLAND ST. CANTON, NC 28716

DATE	MARK	DESCRIPTION
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ISSUE: CONSTRUCTION DOCUMENTS

DATE: 11/12/2025

PROJECT NO:	23029
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DRAWN BY:	RMW
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DOOR AND WINDOW SCHEDULES

A201

Autodesk Docs://Canton Armory/Canton Armory Architectural.rvt
11/13/2025 11:54:56 AM

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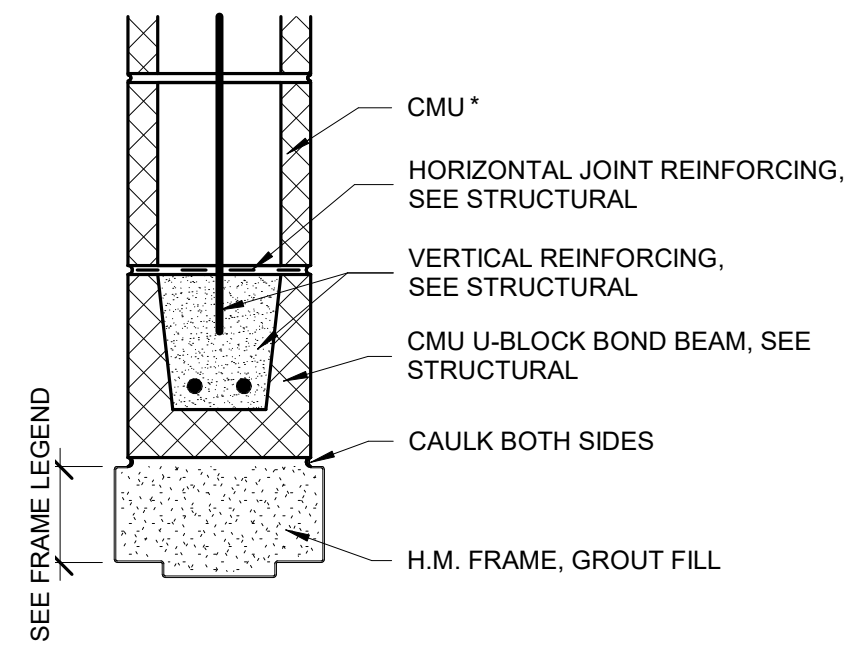
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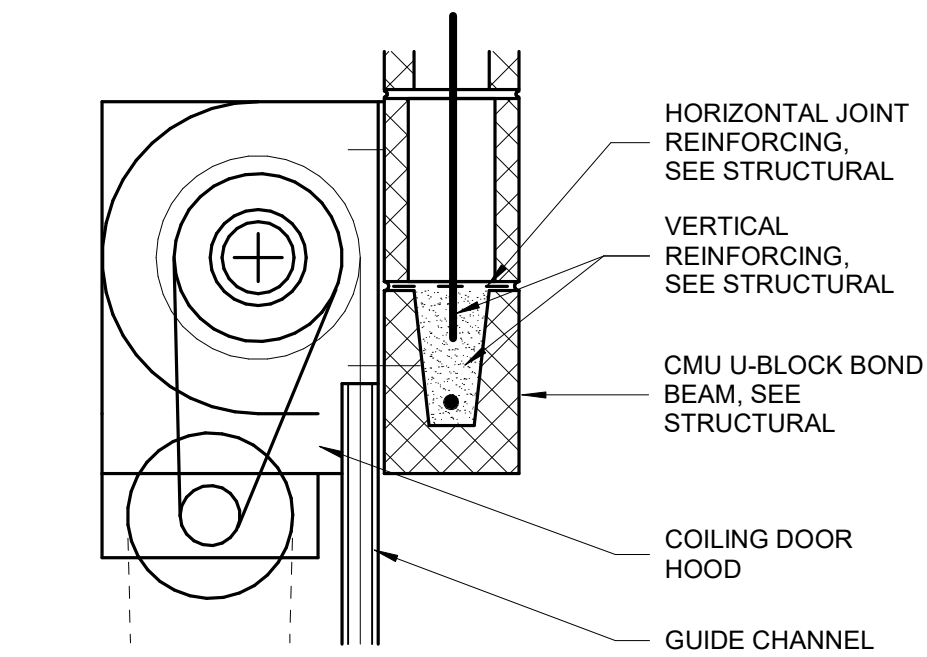
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* SEE FLOOR PLAN AND WALL TYPES LEGEND FOR SIZE

M6H, M8H - HM DOOR HEAD DETAIL

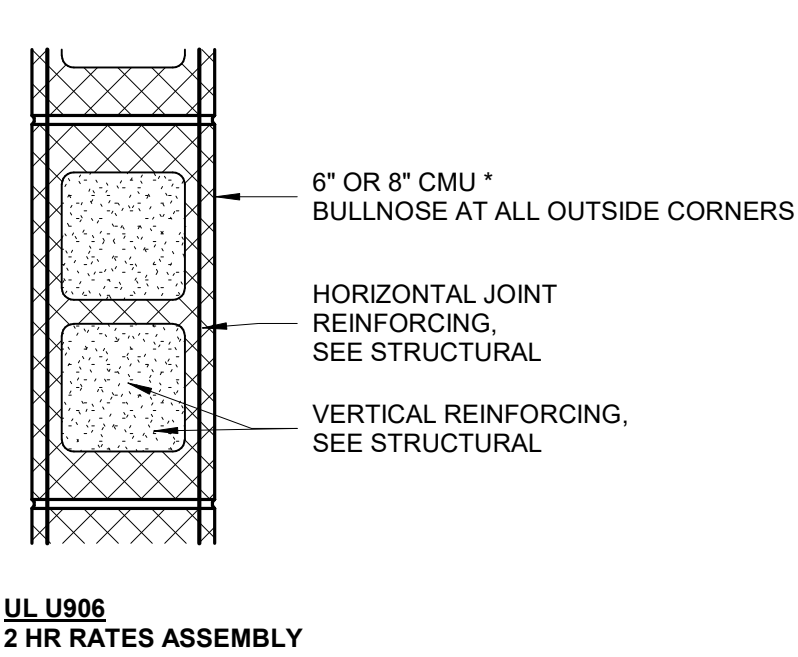
1 1/2" = 1' 0"



* SEE M6H FOR TYPICAL NOTES

M6H-C HEAD DETAIL

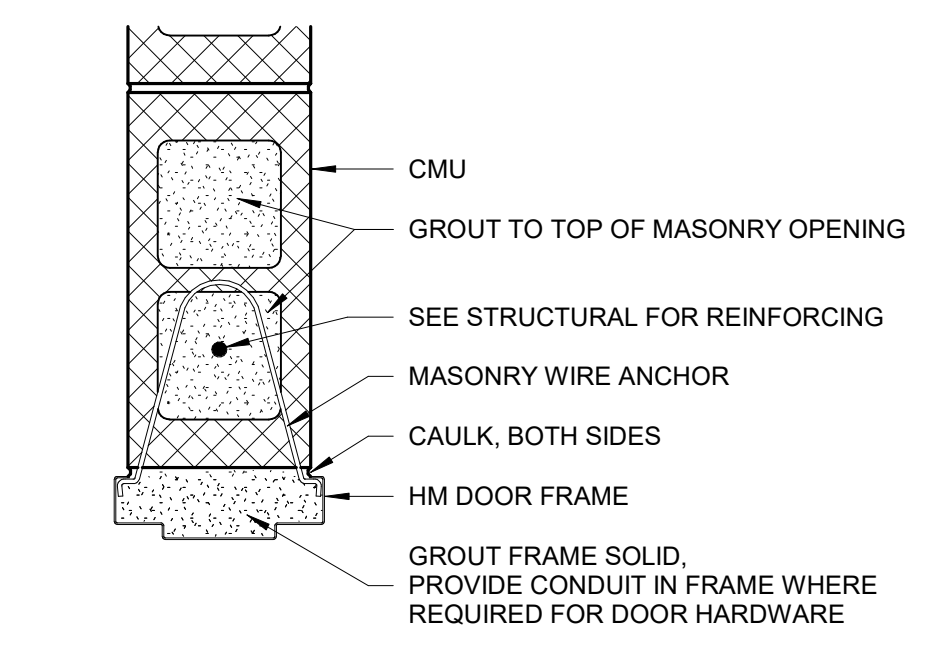
PLAN
1 1/2" = 1' 0"



* SEE FLOOR PLAN AND WALL TYPES LEGEND FOR SIZE

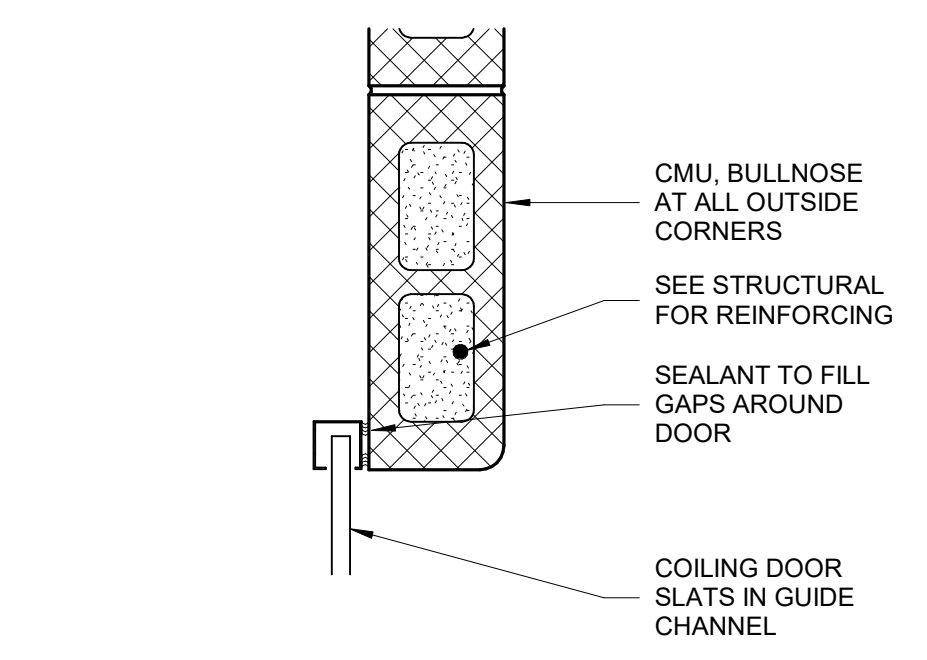
M6, M8 - WALL TYPES

PLAN
1 1/2" = 1' 0"



M6J, M8J - HM DOOR JAMB DETAIL

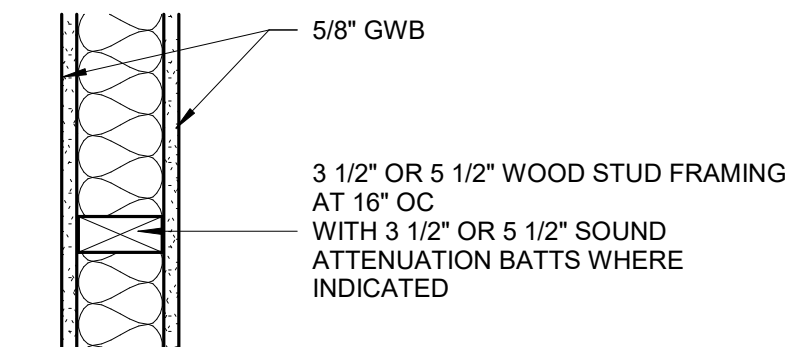
PLAN
1 1/2" = 1' 0"



* SEE M6J FOR TYPICAL NOTES

M6J-C JAMB DETAIL

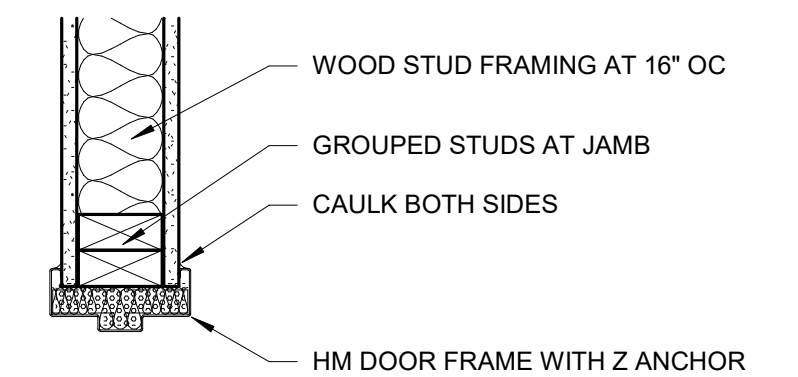
PLAN
1 1/2" = 1' 0"



UL U205
1 HR RATED ASSEMBLY

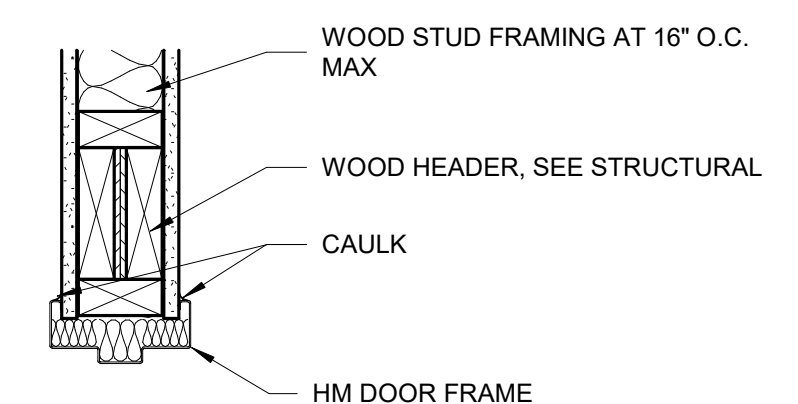
GW4G, GW6G - WALL TYPES

PLAN
1 1/2" = 1' 0"



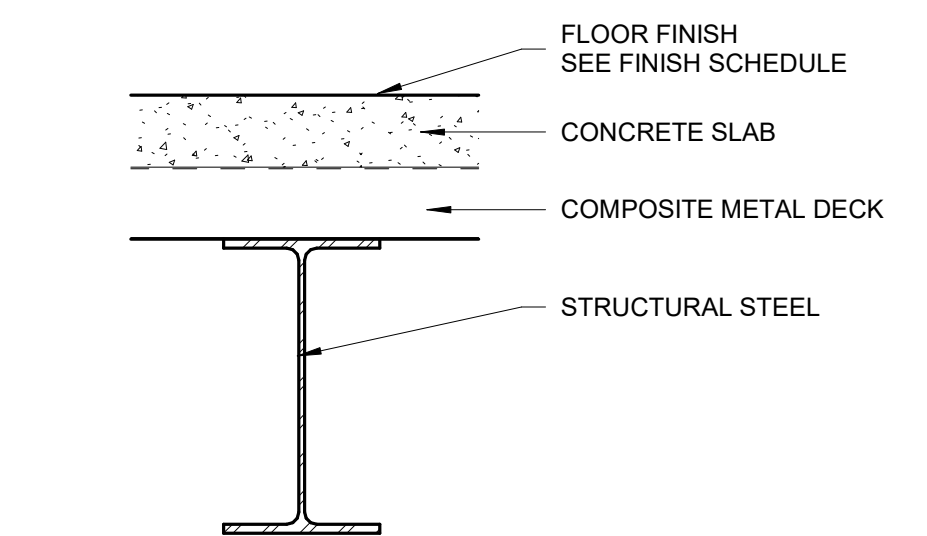
GW4GJ, GW6GJ, GW8GJ JAMB DETAIL

PLAN
1 1/2" = 1' 0"



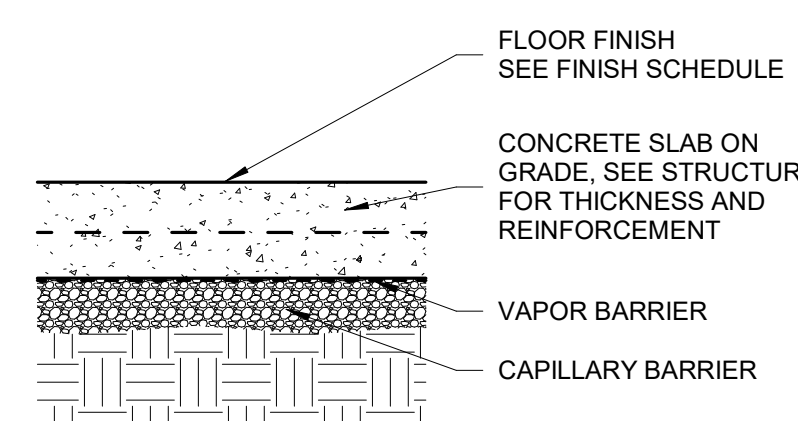
GW4GH, GW6GH, GW8GH HEAD DETAIL

1 1/2" = 1' 0"



S2 - UPPER LEVEL SLAB

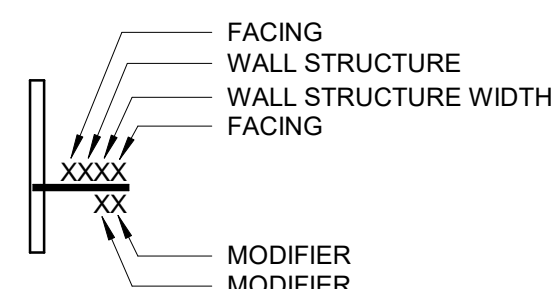
1 1/2" = 1' 0"



S1 - CONCRETE SLAB ON GRADE

1 1/2" = 1' 0"

WALL TYPES LEGEND



FACING:
F Furring - 7/8" METAL HAT CHANNEL W/ 5/8" GWB
G Gypsum - 5/8" GWB

STRUCTURE:
C Concrete
M Masonry
S Metal Stud
SW Shaft Wall
TP Toilet Partition
W Wood Stud

WALL MODIFIER:
A Abuse resistant
F Full height - extend to structure above
P Partial height - extend six inches above ceiling
S Sound - attenuation batt insulation

F

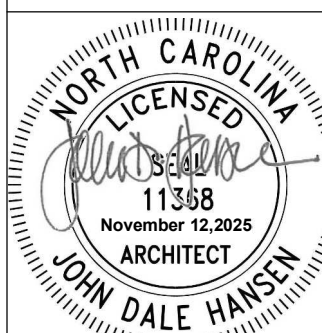
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CONSULTANT

D

TOWN OF
CANTON

C

ARMORY
COMMUNITY
CENTER
RENOVATION

B

71 PENLAND ST. CANTON, NC 28716

DATE	MARK	DESCRIPTION
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ISSUE: CONSTRUCTION DOCUMENTS

DATE: 11/12/2025

PROJECT NO: 23029

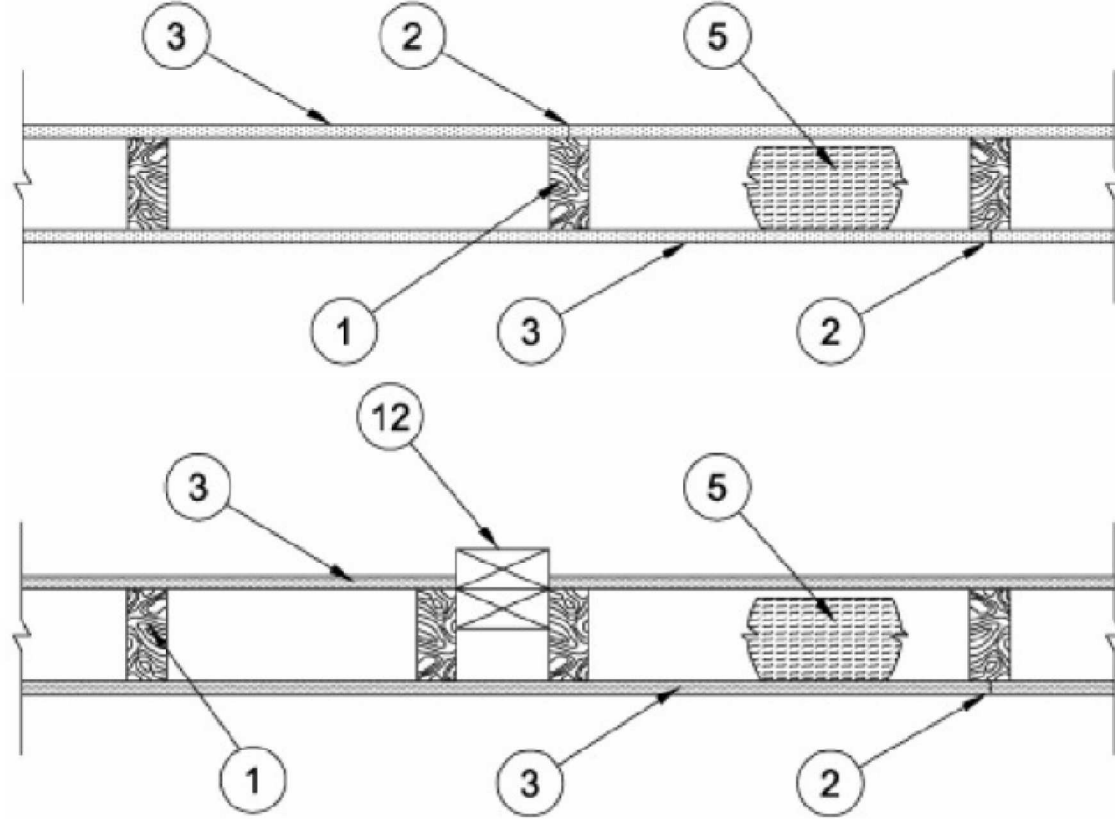
DRAWN BY: JH

CHECKED BY: JDH

WALL TYPES AND
DETAILS

A202

A

	Product iQ®
Design/System/Construction/Assembly Usage Disclaimer	
• Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.	
• Authorities Having Jurisdiction should be consulted before construction.	
• Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.	
• When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide information includes specifics concerning alternate materials and alternate methods of construction.	
• Only products which bear UL's Mark are considered Certified.	
BXUV – Fire Resistance Ratings – ANSI/UL 263 Certified for United States BXUV7 – Fire Resistance Ratings – CAN/ULC-S101 Certified for Canada	
See General Information for Fire-Resistance Ratings – ANSI/ULC-S101 Certified for United States Design Criteria and Allowable Variances	
See General Information for Fire Resistance Ratings – CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances	
Design No. U305	
August 8, 2025	
Bearing Wall Rating – 1 Hr Finish Rating – See Items 3, 3A, 3D, 3E, 3F, 3G, 3H, 3J and 3L. STC Rating – 58 (See Item 9)	
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used – See Guide BXUV or BXUV7	
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.	
	
1. Wood Studs – Nom 2 by 4 in. spaced 16 in. OC, max, effectively firestoppped.	
2. Joints and Nail-Heads – Joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape. Nailheads exposed or covered with joint compound.	
3. Gypsum Board* – 5/8 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths other than 48 in., gypsum panels are to be installed horizontally. For an alternate method of attachment of gypsum panels, refer to Items 6 through 6F, Steel Framing Members*.	
When Items 6, 6B, 6C, 6D, 6E, 6F, 6G, or 6H Steel Framing Members*, are used, gypsum panels attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.	
When Item 6A, Steel Framing Members*, is used, two layers of gypsum panels attached to furring channels. Base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base layers. One layer of gypsum board attached to opposite side of wood stud without furring channels as described in Item 3.	
When Item 7, resilient channels are used, 5/8 in. thick, 4 ft wide gypsum panels applied vertically. Screw attached furring channels with 1 in. long, self-drilling, self-tapping Type 5 or 5-12 steel screws spaced 8 in. OC, vertical joints located midway between studs.	
AMERICAN GYPSUM CO – Types AGX-I (finish rating 23 min.), M-Glass (finish rating 23 min.), Type AGX-II (finish rating 26 min), Type AGX-12 (finish rating 22 min), Type LightRoc (finish rating 23 min.) or Type AG-C	
BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO – Type DBX-I (finish rating 24 min)	
CABOT MANUFACTURING ULC – Type X (finish rating 22 min), 5/8 Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold & Mildew Resistant Type X and Mold & Mildew Resistant AR Type X, Type BlueGloss Exterior Sheathing, 5/8 in. Type C.	
CERTAINTED GYPSUM INC – Type C, Type X-1 (finish rating 26 min); Type EGRG or GlasRoc (finish rating 23 min), GlasRoc-2, Type Habito (finish rating 26 min), Type LWTX (finish rating 18 min), Type LGFC6A (finish rating 34 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLXL (finish rating 21 min), Type CLUX (finish rating 24 min)	
CGC INC – Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type UUX (finish rating 20 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min), Type ULX (finish rating 20 min)	
GEORGIA-PACIFIC GYPSUM L L C – Type 5 (finish rating 26 min), Type 6 (finish rating 23 min), Type 9 (finish rating 26 min), Type C (finish rating 26 min), Type DGG (finish rating 20 min), Type GPFSL (finish rating 20 min), Type GPFSS2 (finish rating 20 min), Type GPFSS3 (finish rating 26 min), Type DS, Type DAP, Type DD (finish rating 20 min), Type DA, Type DAPC, Type LS (finish rating 23 min), Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, Type LWX (finish rating 22 min), Veneer Plaster Base-Type LWX (finish rating 22 min), Water Rated-Type LWX (finish rating 22 min), Sheathing Type-LWX (finish rating 22 min), Soffit-Type LWX (finish rating 22 min), Type DGLW (finish rating 22 min), Water Rated-Type DGLW (finish rating 22 min), Sheathing Type- DGLW (finish rating 22 min), soffit-Type DGLW (finish rating 22 min), Type LWX (finish rating 22 min), Type LW2X (finish rating 22 min), Veneer Plaster Base - Type LW2X (finish rating 22 min), Water Rated - Type LW2X (finish rating 22 min), Sheathing - Type LW2X (finish rating 22 min), Soffit - Type LW2X (finish rating 22 min), Type DGL2W (finish rating 22 min), Water Rated - Type DGL2W (finish rating 22 min), Sheathing - Type DGL2W (finish rating 22 min)	
NATIONAL GYPSUM CO – Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min), Type FSW-8, Type FSLX (finish rating 21 min), Type RSX (finish rating 26 min).	
NATIONAL GYPSUM CO – Riyadh, Saudi Arabia – Type FR, or WR.	
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM – Types C, PG-2 (finish rating 20 min), PG-3 (finish rating 20 min), Types PG-3W, PG-5W (finish rating 20 min), Type PG-4 (finish rating 20 min), Type PG-6 (finish rating 23 min), Types PG-3WS, PG-SWS, PGS-WRS (finish rating 20 min), Types PG-5, PG-9 (finish rating 26 min), PG-I1 PG-I3 (Nails increased to 2 in.), Type PG-C or PGI (finish rating 26 min)	
PANEL REY S A – Type ARX, GREX, GRIX, PRX, PRC, PRC2; Types RHX, Guard Rey, MDX, ETX (finish rating 22 min), PRX2 (finish rating 21 min)	
SIAM GYPSUM INDUSTRY (SARABURI) CO LTD – Type EX-I (finish rating 26 min)	
THAI GYPSUM PRODUCTS PCL – Type C, Type X (finish rating 26 min)	
UNITED STATES GYPSUM CO – Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FRX-G (finish rating 26 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SGX (finish rating 24 min), Type UUX (finish rating 22 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type ULX (finish rating 20 min), Type SCX (finish rating 24 min)	
USG BORAL DRYWALL SFZ LLC – Type SGX (finish rating 24 min).	
USG MEXICO S A D E C V – Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX (finish rating 24 min), Type IP-AR (finish rating 24 min), Type UUX (finish rating 22 min)	
3A. Gypsum Board* – (As an alternate to Item 3) – 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.	
AMERICAN GYPSUM CO – Types AGX-I (finish rating 25 min.), M-Glass (finish rating 25 min.), AG-C (finish rating 25 min.), LightRoc (finish rating 25 min.)	
CERTAINTED GYPSUM INC – Type C, Type X-1 (finish rating 26 min), Type EGRG or GlasRoc, LWTX.	
CGC INC – Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min)	
NATIONAL GYPSUM CO – Type FSW (finish rating 24 min)	
UNITED STATES GYPSUM CO – Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min)	
CGC INC – Type X-Ray Shielded Gypsum*	
IAYCO INDUSTRIES INC – X-Ray Shielded Gypsum*	
M. Gypsum Board* – (As an alternate to Items 3) – For Direct Application to Studs Only – For use as the base layer or as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grades 'B, C or D'.	
RADIATION PROTECTION PRODUCTS INC – Type RPP - Lead Lined Drywall	
3N. Gypsum Board* – (As an alternate to Item 3) – 5/8 in. thick, 4 ft. wide, applied horizontally or vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Secured as described in Item 3 or 3A.	
CERTAINTED GYPSUM INC – East-Lite Type X (finish rating 24 min), East-Lite Type X-2 (finish rating 24 min)	
3O. Wall and Partition Facings and Accessories* – (As an alternate to Item 3, Not Shown) – Nominal 5/8 in. thick, 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Panel joints covered with paper tape and two layers of joint compound. Nailheads covered with two layers of joint compound.	
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM – Type QuietRock 527 (finish rating 24 min).	
3P. Gypsum Board* – (As an alternate to Item 3, Not Shown) – Two layers nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by wood studs. Horizontal joints on the same side between face and base layers need not be staggered. Base layer gypsum panels fastened to studs with 1-1/4 in. long drywall nails spaced 8 in. OC. Face layer gypsum panels fastened to studs with 1-7/8 in. long drywall nails spaced 8 in. OC starting with a 4" stagger.	
NATIONAL GYPSUM CO – Type FSW (finish rating 25 min)	
3Q. Gypsum Board* – (As an alternate to Item 3) – 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.	
CERTAINTED GYPSUM INC – Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLXL	
3R. Gypsum Board* – (As an alternate to Item 3. For use with Item 5H) – Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 3 above. Applied either horizontally or vertically, and screwed to panels with	
1-5/8 in. long Type W coarse thread steel screws at 8 in. OC at perimeter and in the field with the last two screws 4 and 3/4 in. from the edges of the board when applied as the base layer. When used in widths other than 48 in., gypsum panels are to be installed horizontally.	
3S. Gypsum Board* – 3/4 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels secured as described in Item 3 with nail length increased to 2 in.	
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM – Type PG-I3	
3T. Wall and Partition Facings and Accessories* – (As an alternate to 5/8 in. thick board as outlined in Item 3) – Nominal 1-3/8 in. thick, 4 ft wide panels, applied vertically or horizontally. Fastened with #6 x 2 in. long drywall screws spaced 8 in. OC along the perimeter and 12 in. OC in the field.	
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM – Type QuietRock 545	
3U. Gypsum Board* – (As an alternate to Item 3 – For use with Foamed Plastic products, Item 5J) – 5/8 in. thick, 4 ft. wide, applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.	
AMERICAN GYPSUM CO – Types AGX-I	
BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO – Type DBX-I	
CABOT MANUFACTURING ULC – Type X	
CERTAINTED GYPSUM INC – Type X	
CGC INC – Type SCX	
PANEL REY S A – Type ARX, PRX	
SIAM GYPSUM INDUSTRY (SARABURI) CO LTD – Type EX-I	
THAI GYPSUM PRODUCTS PCL – Type X	
UNITED STATES GYPSUM CO – Types SCX and SGX	
USG BORAL DRYWALL SFZ LLC – Types SCX and SGX	
USG MEXICO S A D E C V – Type SCX	
3V. Gypsum Board* – (As an alternate to Item 3. For use with Item 5K) – Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 3 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field.	
3W. Gypsum Board* – (As an alternate to Item 3. For use with Item 5L) – Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 3 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-1/4 in. long Type W screws spaced 8 in. OC at perimeter and in the field.	
3X. Gypsum Board* – (As an alternate to Item 3. For use with Item 5M) – Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 3 above. Two layers applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Joints in outer layers staggered with joints in inner layers. Inner layer secured to studs with 1-1/4 in. long Type W screws spaced 8 in. OC at perimeter and in the field. Outer layer secured to studs with 1-7/8 in. long Type W screws spaced 8 in. OC at the perimeter and in the field.	
4. Steel Corner Fasteners – (Optional) – For use at wall corners. Channel shaped, 2 in. long by 1 in. high on the back side with two 1/8 in. wide cleats protruding into the 5/8 in. wide channel, fabricated from 24 gauge galv steel. Fasteners applied only to the end or cut edge (not along tapered edges) of the gypsum board, no greater than 2 in. from corner of gypsum board, max spacing 16 in. OC. Nailed to adjacent stud through tab using one No. 6d cement coated nail per fastener. Corners of wall board shall be nailed to top and bottom plate using No. 6d cement coated nails.	
5. Batts and Blankets* – (Optional – Required when Item 6A is used (RC-I)) – Glass fiber or mineral wool insulation. Placed to completely or partially fill the stud cavities. When Item 6A is used, glass fiber or mineral wool insulation shall be friction-fitted to completely fill the stud cavities.	
CERTAINTED CORP	
JOHNS MANVILLE	
KNAUF INSULATION LLC	
MANSON INSULATION INC	
ROCKWOOL – Types Acoustical Fire Batts and Type AFB, min. density 1.69 pcf / 27.0 kg/m³	
ROCKWOOL MALAYSIA SDN BHD – Type Acoustical Fire Batts	
ROCK WOOL MANUFACTURING CO – Delta Board	
THERMAFIBER/OWENS CORNING – Type SAFB, SAFB FF	
5A. Fiber, Sprayed* – (Not Shown – Not for use with Item 6) – As an alternate to Batts and Blankets (Item 5) – Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft³, in accordance with the application instructions supplied with the product. When Item 6B is used, Fiber, Sprayed shall be SANCTUARY.	
Applegate Greenfiber Acquisition LLC – Insulmax and SANCTUARY for use with wet or dry application.	
5B. Fiber, Sprayed* – (Not Shown – Not for use with Item 6) – As an alternate to Batts and Blankets (Item 5) – Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.	
NU-WOOL CO INC – Cellulose Insulation	
5C. Batts and Blankets* – Required for use with resilient channels, Item 7, 3 in. thick mineral wool batts, friction-fitted to fill interior of wall.	
THERMAFIBER/OWENS CORNING – Type SAFB, SAFB FF	
5D. Glass Fiber Insulation – (As an alternate to Item 5C) – 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the interior of the wall. See Batts and Blankets (BKNV or BZLZ) Categories for names of Classified companies.	
5E. Batts and Blankets* – (Required for use with Wall and Partition Facings and Accessories, Item 3D) – Glass fiber insulation, nom 3-1/2 in. thick, min. density of 0.80 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities. See Batts and Blankets Category (BKNV) for names of manufacturers.	
5F. Fiber, Sprayed* – (Optional, Not Shown – Not for use with Items 6, 6A, 6B, 6C, or 6D) – As an alternate to Batts and Blankets (Item 5) and Item 5A – Spray applied granulated mineral fiber material. The fiber is applied with adhesive, at a minimum density of 4.0 pcf, to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCAZ).	
AMERICAN ROCKWOOL MANUFACTURING, LLC – Type Rockwool Premium Plus	
5G. Fiber, Sprayed* – (Optional, Not Shown – Not for use with Items 6, 6A, 6B, 6C, or 6D) – As an alternate to Batts and Blankets (Item 5) and Item 5A – Brown Colored Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed stud cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft³.	
3I. Gypsum Board* – (As an alternate to Items 3 through 3H, Not Shown) – Nominal 5/8 in. thick, 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in.	

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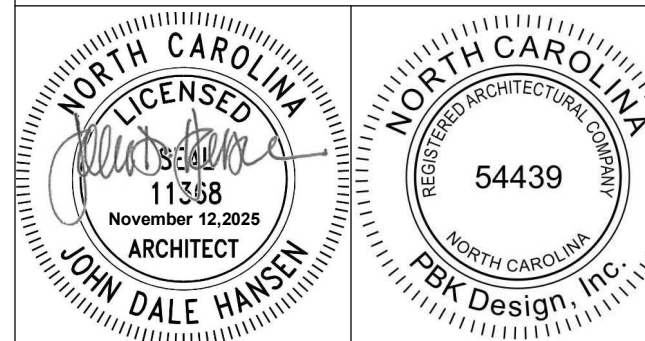
CRAIG
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CONSULTANT

D

TOWN OF
CANTON

C

ARMORY
COMMUNITY
CENTER
RENOVATION

71 PENLAND ST, CANTON, NC 28716

DATE	MARK	DESCRIPTION
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B

ISSUE: CONSTRUCTION DOCUMENTS	
DATE: 11/12/2025	
PROJECT NO: 23029	
DRAWN BY: TJW	
CHECKED BY: JDH	

WALL TYPES - UL

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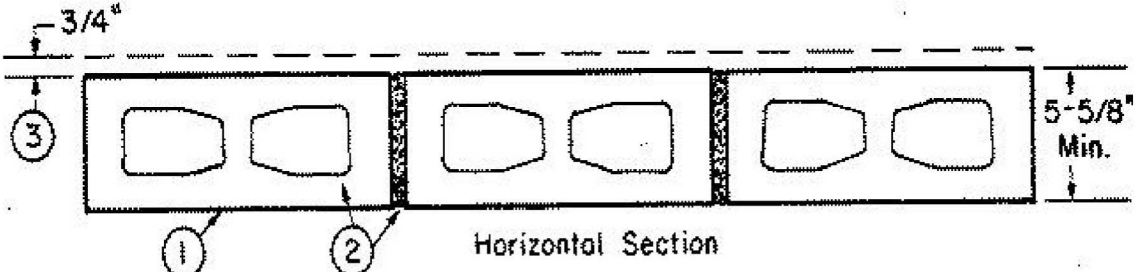
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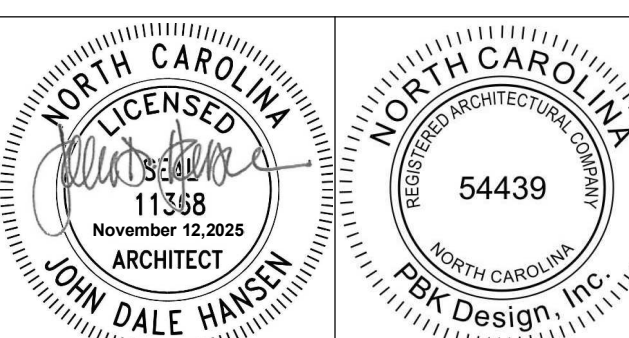
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INTERNATIONAL CELLULOSE CORP — Celbor-RI	b. Steel Framing Members* — Used to attach furring channels (Item 6Da) to studs. Clips spaced 48 in. OC, and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. REGUPOL AMERICA — Type SonusClip	HOMASOTE CO — Homasote Type 440-32	14A. Mineral and Fiber Board* — (Optional, Not Shown) — For use with Items 14B-14E) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with minimum 1-3/8 in. long ring shanked nails or 1-1/4 in. long Type W steel screws, spaced 12 in. OC along board edges and 24 in. OC in field of board along intermediate framing. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. HOMASOTE CO — Homasote Type 440-32	Design/System/Construction/Assembly Usage Disclaimer • Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials. • Authorities Having Jurisdiction should be consulted before construction. • Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field. • When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction. • Only products which bear UL's Mark are considered Certified. See General Information for Fire Resistance Ratings — ANSUL UL 263 Certified for United States BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada See General Information for Fire Resistance Ratings — ANSUL UL 263 Certified for United States Design Criteria and Allowable Variances See General Information for Fire Resistance Ratings — CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances July 14, 2025 Bearing Wall Rating — 2 HR. Nonbearing Wall Rating — 2 HR. This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7 * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively. 
5d. Foamed Plastic* — (Optional -For use with Item 3k) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. Holcim Solutions and Products US, LLC — Nexseal™ 2.0 or Nexseal™ 2.0 LE Spray Foam and Sucrocell Spray Foam. 5f. Fiber, Sprayed* — (Not Shown — Not for use with item 6) — As an alternate to Batts and Blankets (Item 5) — Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face of the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft³. Applegate Greenfiber Acquisition LLC — Applegate Advanced Stabilized Cellulose Insulation 5j. Foamed Plastic* — (Optional, Not Shown — For use with item 3U) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. HOLCIM SOLUTIONS AND PRODUCTS US, LLC — Types GacoEZSpray F4500, GacoProFill FR6500R, Gaco 052N, GacoOnePass F1850, GacoOnePass Low GWP F1880, and Gaco WallFoam 183M 5k. Foamed Plastic* — (Optional, Not Shown - For use with item 3V) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. CARLISLE SPRAY FOAM INSULATION — Types SealTite ONE, SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro CCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate CCX, Foamsulate 70, and Foamsulate HFO. 5l. Foamed Plastic* — (Optional, Not Shown — For use with item 3W) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. BASF CORP — Types Eneritite® NM, Eneritite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite® HP+, Walltite® MAX, Walltite® LWP, Walltite® Plus, Walltite® One, and Eneritite® Max 5M. Foamed Plastic* — (Optional, Not Shown - For use with item 3X) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. BASF CORP — Type Walltite® v.5 5N. Loose Fill Material* — Optional - (As an alternate to Items 5-M) — Shredded glass fibers bearing the UL Classification Marking as to Surface Burning. Blown into wall cavities through pre-installed fabric stapled or adhered to studs. CERTAINTED LLC — Type InsuSafe R, InsuSafe SF, InsuSafe XC, Northern White, or OPTIMA 6. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3. b. Steel Framing Members* — Used to attach furring channels (Item 6a) to studs. Clips spaced 48 in. OC, RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels. PAC INTERNATIONAL LLC — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75) PAC INTERNATIONAL LLC — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75) 6A. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members on one side of studs as described below: a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 3. b. Steel Framing Members* — Used to attach furring channels (Item 6Aa) to one side of studs only. Clips spaced 48 in. OC, and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips. KINETICS NOISE CONTROL INC — Type IsoMax 6B. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 3. b. Steel Framing Members* — Used to attach furring channels (Item 6Ba) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. PLITEQ INC — Type Genie Clip	6b. Steel Framing Members* — (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below: a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Phillips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 3. b. Steel Framing Members* — Used to attach resilient channels (Item 6Ea) to studs. Clips spaced 48 in. OC, and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw. KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip 6f. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel, 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3. b. Steel Framing Members* — Used to attach furring channels (Item 6Fa) to studs. Clips spaced 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip 6g. Steel Framing Members* — (Optional, Not Shown) — Used as an alternate method to attach resilient channels to wall studs. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 16 in. O.C. Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the screws supplied with the accessory and per the accessory manufacturer's installation instructions. PAC INTERNATIONAL LLC — Type RC-1 Boost 6h. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems, not for use with Items 3D, 3L or 3M) — As an alternate to Item 6) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel, 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3. b. Steel Framing Members* — Used to attach furring channels (Item 6Ha) to studs. Clips spaced maximum 48 in. OC, staggered on adjacent furring channels and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. ISOTECH INDUSTRIES INC. — Type ISOSTUD 7. Resilient Channel — Optional — Not Shown — For use on one side of the wall - Resilient channels, 25 MSG galv steel, spaced vertically 24 in. OC, long portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws. When resilient channels are used, insulation, Items 5C or 5D is required. 8. Caulking and Sealants — (Not Shown, Optional) — A bead of acoustical sealant applied around the partition perimeter for sound control. 9. STC Rating — The STC Rating of the wall assembly is 56 when it is constructed as described by Items 1 through 6, except: A. Item 2, above — Nailheads Shall be covered with joint compound. B. Item 2, above — Joints As described, shall be covered with fiber tape and joint compound. C. Item 5, above — Batts and Blankets* The cavities formed by the studs shall be friction fit with R-19 unfaced fiberglass insulation batts measuring 6-1/4 in. thick and 15-1/4 in. wide. D. Item 6, above — Steel Framing Members* Type RSIC-1 clips shall be used to attach gypsum board to studs on either side of the wall assembly. E. Item 8, above — Caulking and Sealants (Not Shown) A bead of acoustical sealant shall be applied around the partition perimeter for sound control. F. Steel Corner Fasteners (Item 4), Fiber, Sprayed (Items 5A and 5B) and Steel Framing Members (Item 6A), not evaluated as alternatives for obtaining STC rating.	14f. Mineral and Fiber Board — (Optional, Not Shown) — For optional use as an additional layer on one side of wall - Nom 1/2 in. thick, 4 ft wide, square edge fiber boards applied vertically to studs on one side of the wall in between the wood studs and the UL Classified Gypsum Board (Item 3). Fiber boards installed with 1-1/4 in. long, Type W, bugle head, coarse thread gypsum board screws spaced 12 in. OC max, with the last screws spaced 2 in. and 6 in. from edge of board. Gypsum board (Item 3) installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. BLUE RIDGE FIBERBOARD INC — SoundStop 14g. Building Units — (Optional Item Not Shown — For use over Gypsum Board, Item 3) 1 in., 2 in. or 3 in. thick, 4 ft wide — Applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with wolver head screws of adequate length to penetrate framing by a minimum of ¼ in., spaced a max 8 in. o.c. NATIONAL GYPSUM CO — Type PBCI * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively. Last Updated on 2025-08-08	1. Concrete Blocks* — Nominal 6 by 8 by 16 in. hollow or solid. Various designs. Classification (2 hr). See Concrete Blocks category for list of eligible manufacturers. ANCHOR CONCRETE PRODUCTS INC GAGNE & SON CONCRETE BLOCK INC GLENWOOD MASONRY PRODUCTS Allowable compressive stress of 57% of max allowable compressive stress in accordance with the empirical design method. OLDCASTLE APG SOUTH INC, DBA ADAMS PRODUCTS WESTBROOK CONCRETE BLOCK CO INC Allowable compressive stress of 75.6% of max allowable compressive stress in accordance with the empirical design method. 2. Mortar — Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered. 3. Portland Cement Stucco or Gypsum Plaster — Add 1/2 hr to Classification if used. Attached to concrete blocks (Item 1). 4. Foamed Plastic* — (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1). ATLAS ROOFING CORP — EnergyShield® Pro Wall Insulation, EnergyShield® Pro 2 Wall Insulation, EnergyShield® COF Pro, EnergyShield® Ply Pro, EnergyShield® COF, EnergyShield® PanelCast, EnergyShield® and "EnergyShield®" XR DUPONT DE NEMOURS, INC. — Types Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax H Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (HDP), TUFF-R™ ci Insulation, Thermax Butler StyWall Insulation Board and Thermax Morton Heavy Duty Insulation Board Holcim Solutions and Products US, LLC — "Enverge™" CI Foil Exterior Wall Insulation" and "Enverge™" CI Glass Exterior Wall Insulation" HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Types "Xci-Class A", "Xci 285", "Xci Foil (Class A)" RMAX, A BUSINESS UNIT OF Sika CORPORATION — "Thermasheath-Si", "Thermasheath-XP", "Thermasheath", "Durasheath" JOHNS MANVILLE — Type "AP Foil-Faced Foam Sheathing" 4A. Building Units* — As an alternate to Item 4, min. 1-in. thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in. ATLAS ROOFING CORP — EnergyShield® Ply RMAX, A BUSINESS UNIT OF Sika CORPORATION — "Thermasheath-Si", "ECOBASec", "ThermaBase-Ci", "ECOMAXci FR Ply", "ECOMAXci Ply" 4B. Foamed Plastic* — (Optional — Not Shown) — As an alternate to Item 4 - Expanded polystyrene insulation installed at a maximum nominal density of 2.0 lb/ft² attached to concrete blocks (Item 1). BASF CORP STYRENIC FOAMS DIV — "Neopor®" GPS (Roofing Board), "Neopor®" GPS (EFS), "Neopor®" GPS (Stucco), "Neopor®" GPS (CI), "Neopor®" GPS (IE), "Neopor®" GPS (Perma R-Chrome), "Neopor®" GPS (Termite Treated), "Neopor®" GPS (HALO Subzero), "Neopor®" GPS (Foundation PRO), "Neopor®" GPS (HALO Exterra), "Neopor®" GPS (HALO Interra), "Neopor®" GPS (PFT Pro Board), "Neopor®" GPS (PFT Red Label), and "Neopor®" GPS (PFT Chrome)" * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively. Last Updated on 2025-07-14	
5d. Foamed Plastic* — (Optional -For use with Item 3k) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. Holcim Solutions and Products US, LLC — Nexseal™ 2.0 or Nexseal™ 2.0 LE Spray Foam and Sucrocell Spray Foam. 5f. Fiber, Sprayed* — (Not Shown — Not for use with item 6) — As an alternate to Batts and Blankets (Item 5) — Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face of the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft³. Applegate Greenfiber Acquisition LLC — Applegate Advanced Stabilized Cellulose Insulation 5j. Foamed Plastic* — (Optional, Not Shown — For use with item 3U) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. HOLCIM SOLUTIONS AND PRODUCTS US, LLC — Types GacoEZSpray F4500, GacoProFill FR6500R, Gaco 052N, GacoOnePass F1850, GacoOnePass Low GWP F1880, and Gaco WallFoam 183M 5k. Foamed Plastic* — (Optional, Not Shown - For use with item 3V) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. CARLISLE SPRAY FOAM INSULATION — Types SealTite ONE, SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro CCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate CCX, Foamsulate 70, and Foamsulate HFO. 5l. Foamed Plastic* — (Optional, Not Shown — For use with item 3W) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. BASF CORP — Types Eneritite® NM, Eneritite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite® HP+, Walltite® MAX, Walltite® LWP, Walltite® Plus, Walltite® One, and Eneritite® Max 5M. Foamed Plastic* — (Optional, Not Shown - For use with item 3X) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. BASF CORP — Type Walltite® v.5 5N. Loose Fill Material* — Optional - (As an alternate to Items 5-M) — Shredded glass fibers bearing the UL Classification Marking as to Surface Burning. Blown into wall cavities through pre-installed fabric stapled or adhered to studs. CERTAINTED LLC — Type InsuSafe R, InsuSafe SF, InsuSafe XC, Northern White, or OPTIMA 6. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3. b. Steel Framing Members* — Used to attach furring channels (Item 6a) to studs. Clips spaced 48 in. OC, RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels. PAC INTERNATIONAL LLC — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75) PAC INTERNATIONAL LLC — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75) 6A. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members on one side of studs as described below: a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 3. b. Steel Framing Members* — Used to attach furring channels (Item 6Aa) to one side of studs only. Clips spaced 48 in. OC, and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips. KINETICS NOISE CONTROL INC — Type IsoMax 6B. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 3. b. Steel Framing Members* — Used to attach furring channels (Item 6Ba) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. PLITEQ INC — Type Genie Clip	6b. Steel Framing Members* — (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below: a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Phillips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 3. b. Steel Framing Members* — Used to attach resilient channels (Item 6Ea) to studs. Clips spaced 48 in. OC, and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw. KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip 6f. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel, 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3. b. Steel Framing Members* — Used to attach furring channels (Item 6Fa) to studs. Clips spaced 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip 6g. Steel Framing Members* — (Optional, Not Shown) — Used as an alternate method to attach resilient channels to wall studs. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 16 in. O.C. Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the screws supplied with the accessory and per the accessory manufacturer's installation instructions. PAC INTERNATIONAL LLC — Type RC-1 Boost 6h. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems, not for use with Items 3D, 3L or 3M) — As an alternate to Item 6) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel, 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3. b. Steel Framing Members* — Used to attach furring channels (Item 6Ha) to studs. Clips spaced maximum 48 in. OC, staggered on adjacent furring channels and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. ISOTECH INDUSTRIES INC. — Type ISOSTUD 7. Resilient Channel — Optional — Not Shown — For use on one side of the wall - Resilient channels, 25 MSG galv steel, spaced vertically 24 in. OC, long portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double			

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CONSULTANT

TOWN OF
CANTON

ARMORY
COMMUNITY
CENTER
RENOVATION

71 PENLAND ST. CANTON, NC 28710

DATE	MARK	DESCRIPTION
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ISSUE: CONSTRUCTION DOCUMENT

DATE: 11/12/202

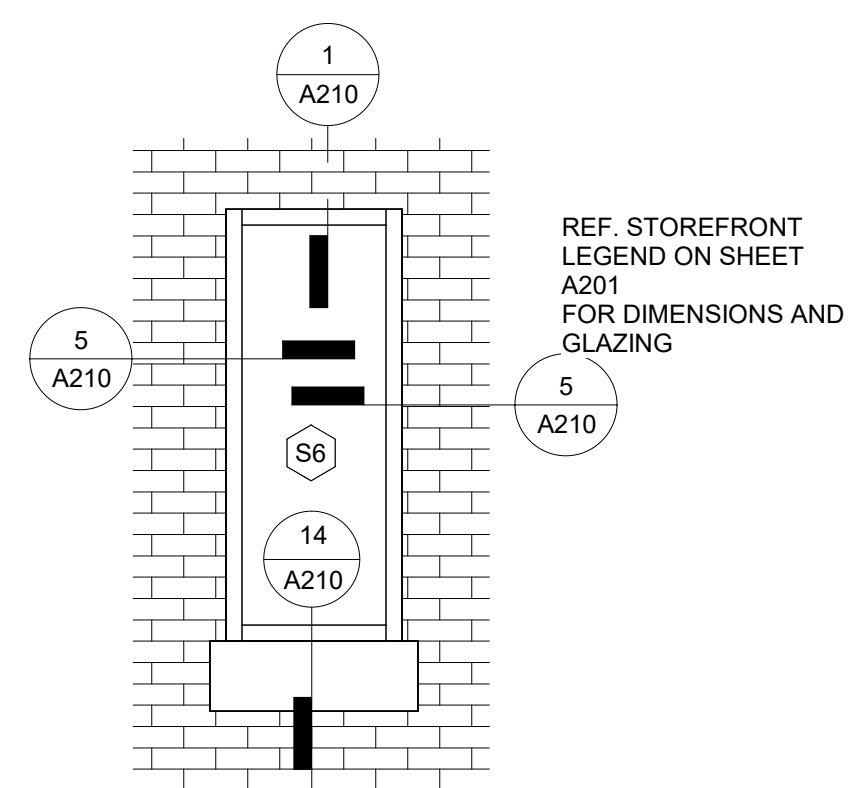
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ENLARGED STOREFRONT ELEVATIONS

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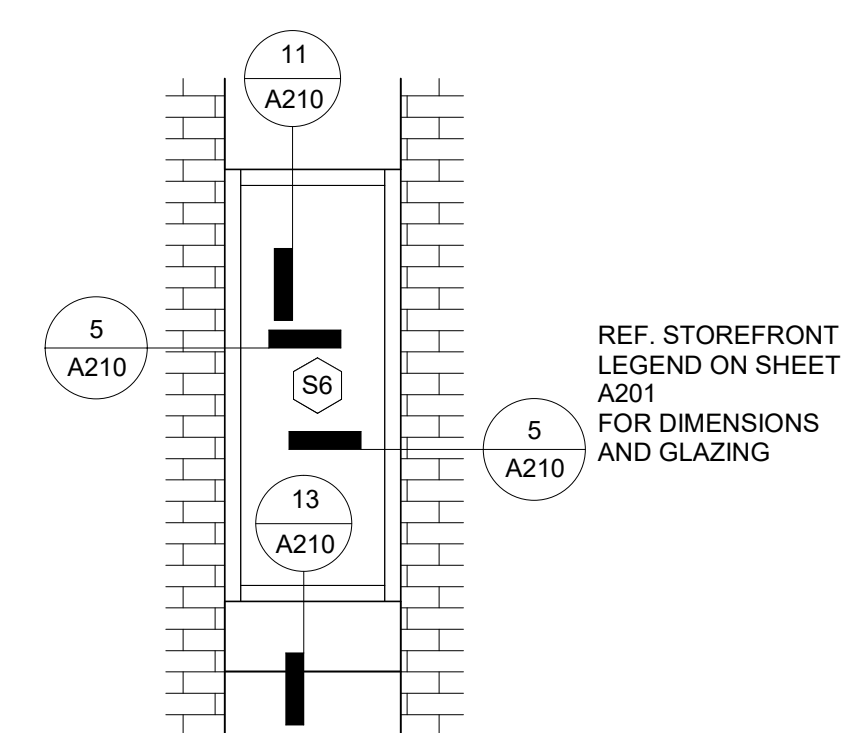
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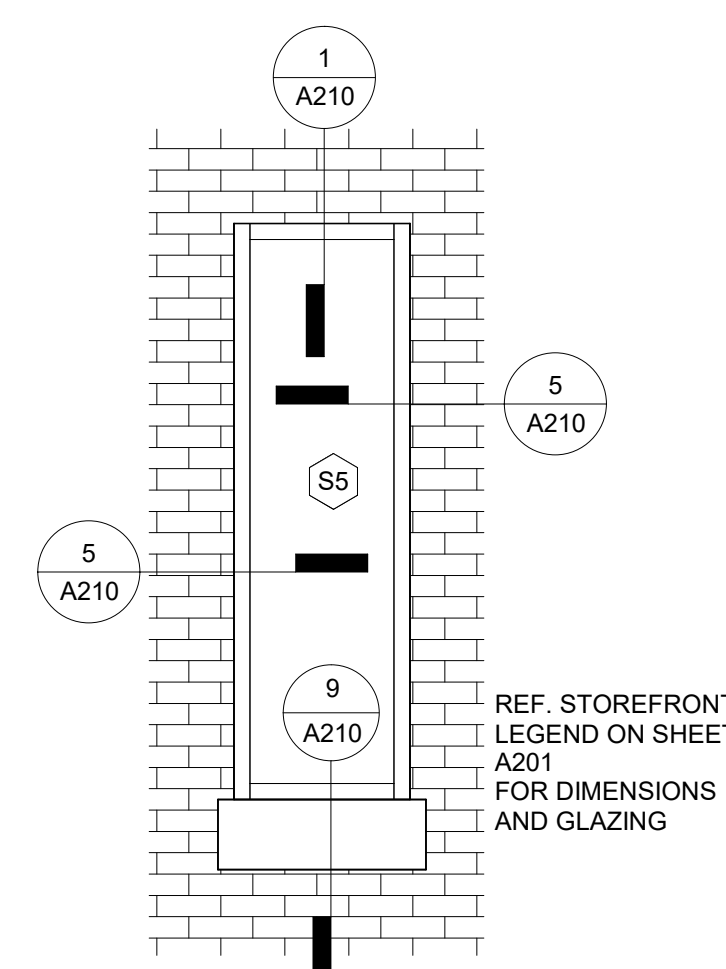
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S6 - STOREFRONT BRICK HEAD

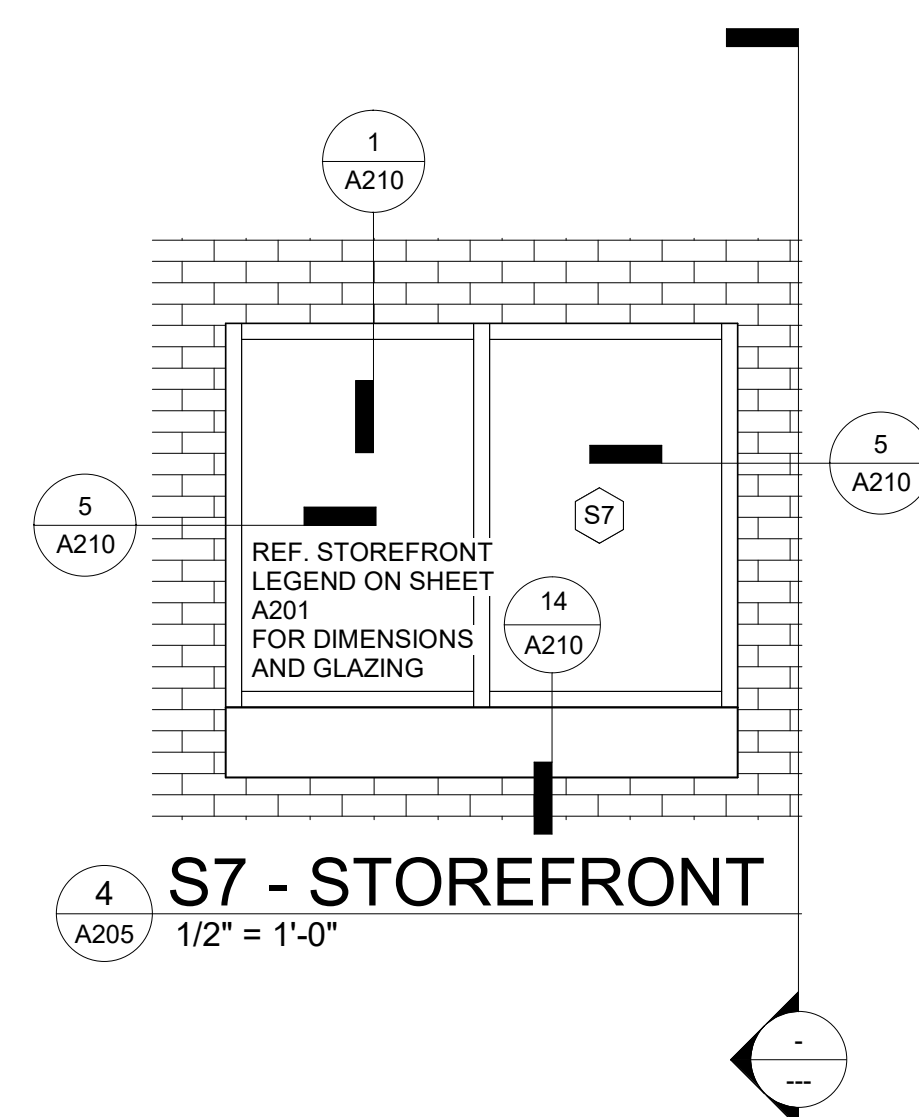
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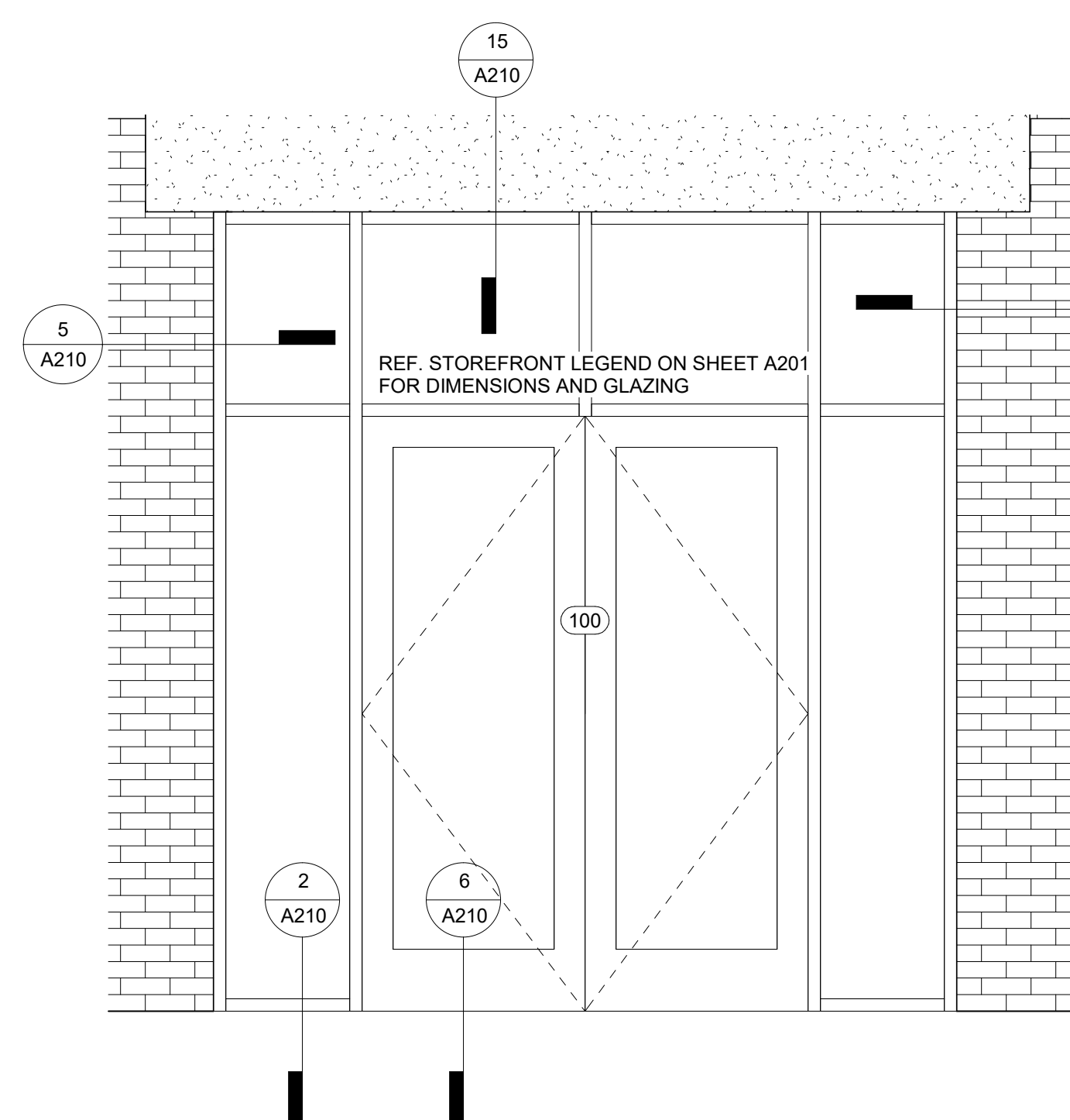
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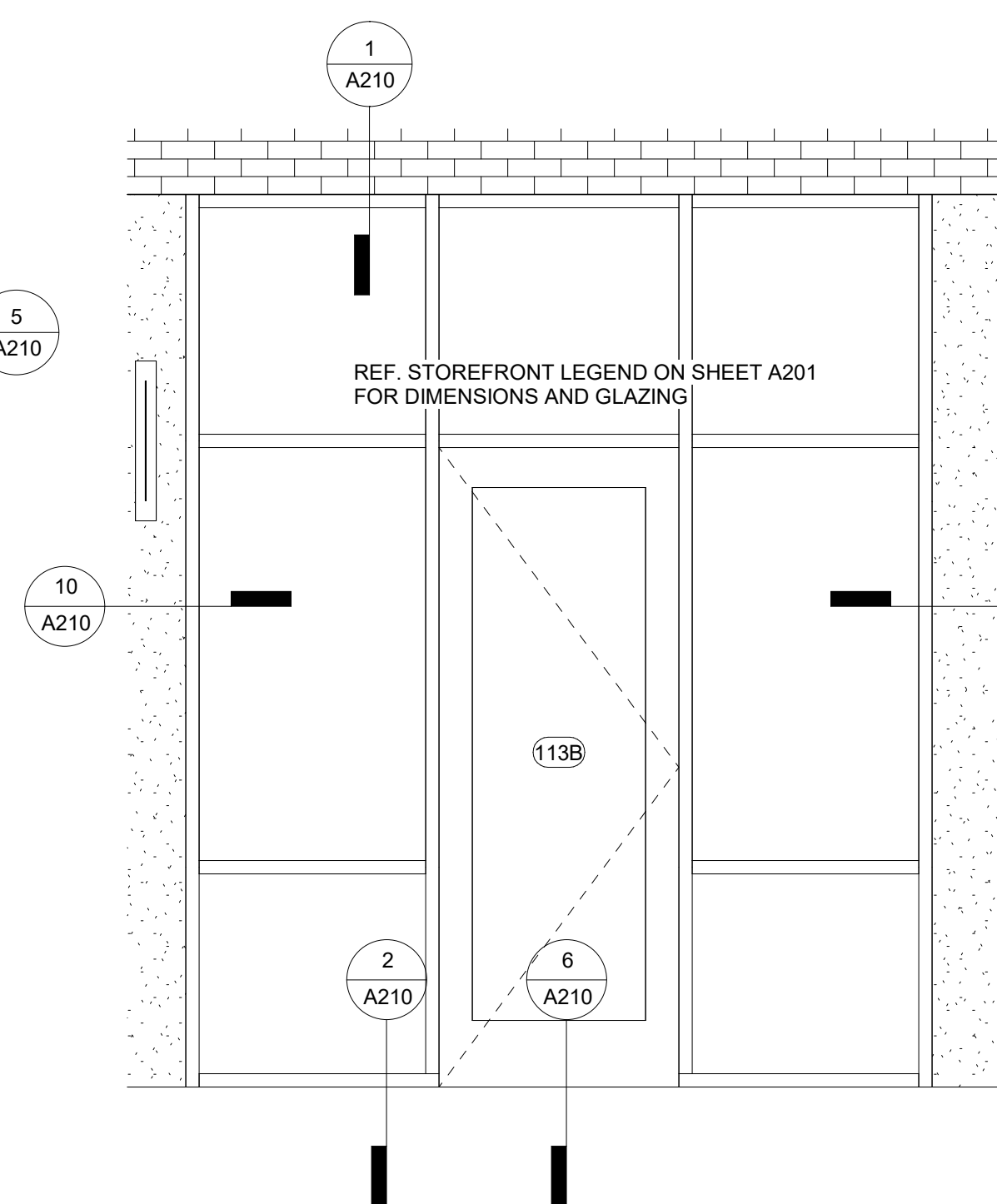
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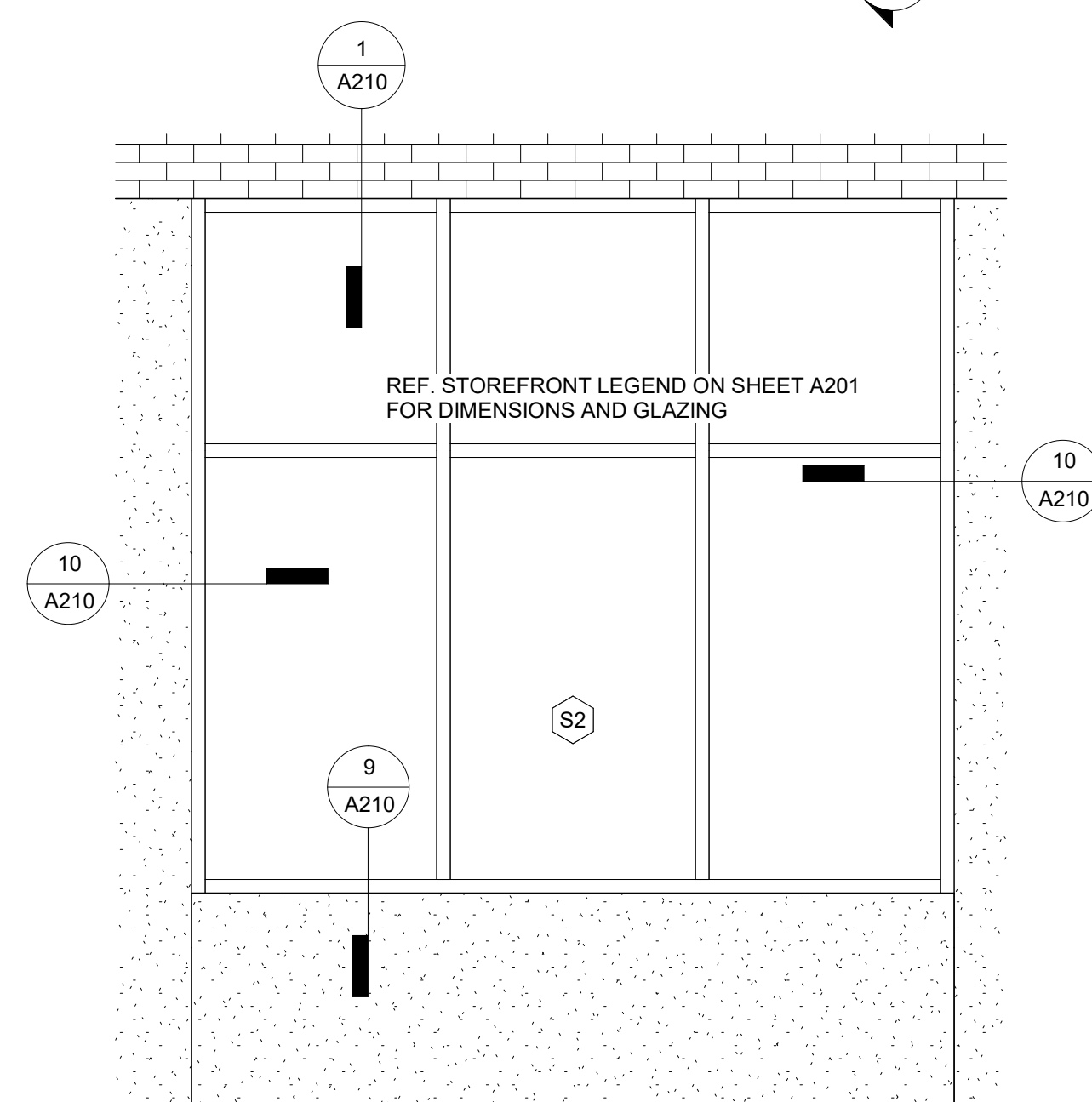
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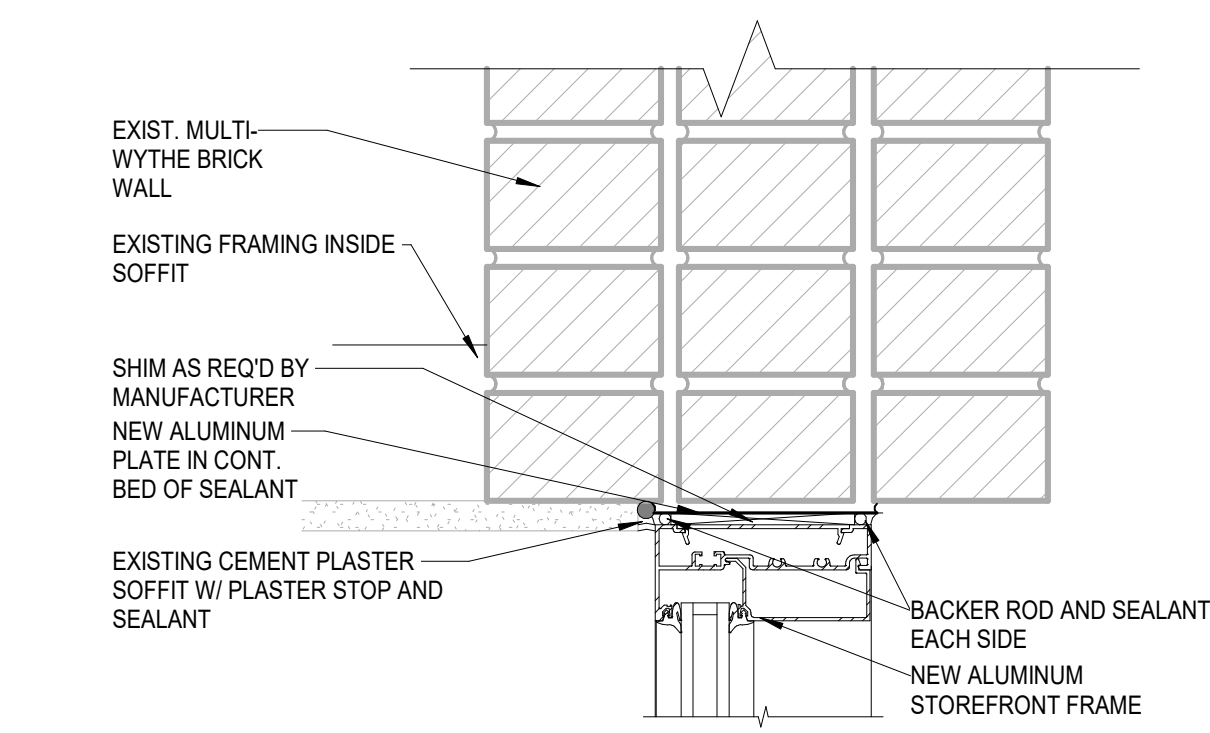
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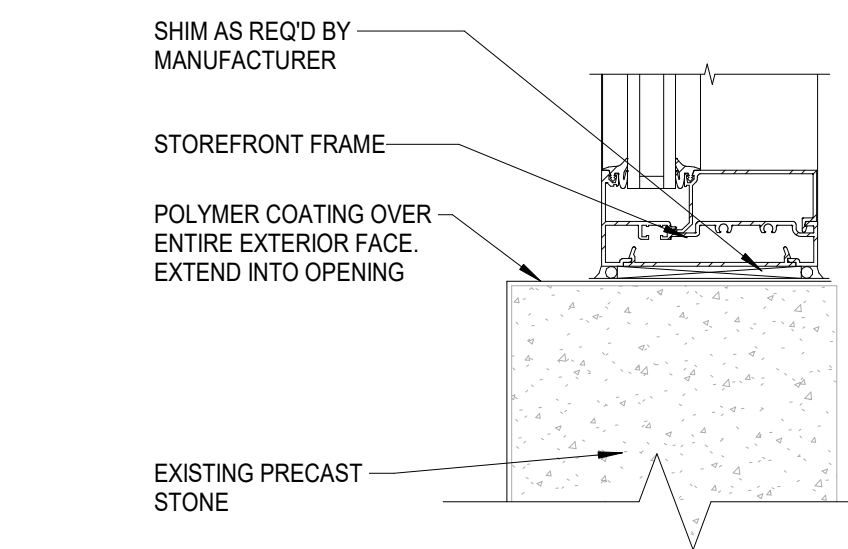
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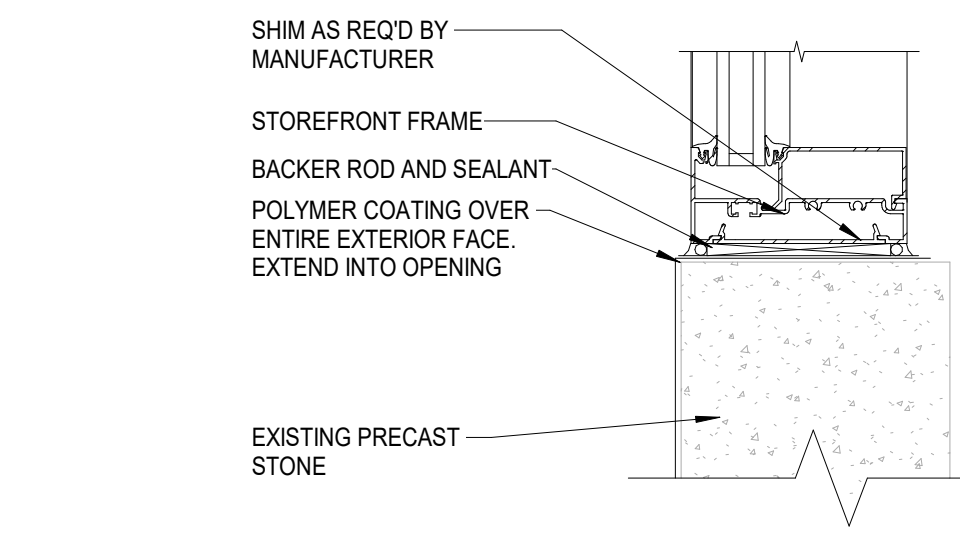
1 S2 - STOREFRONT
A205 1/2" = 1'-0"



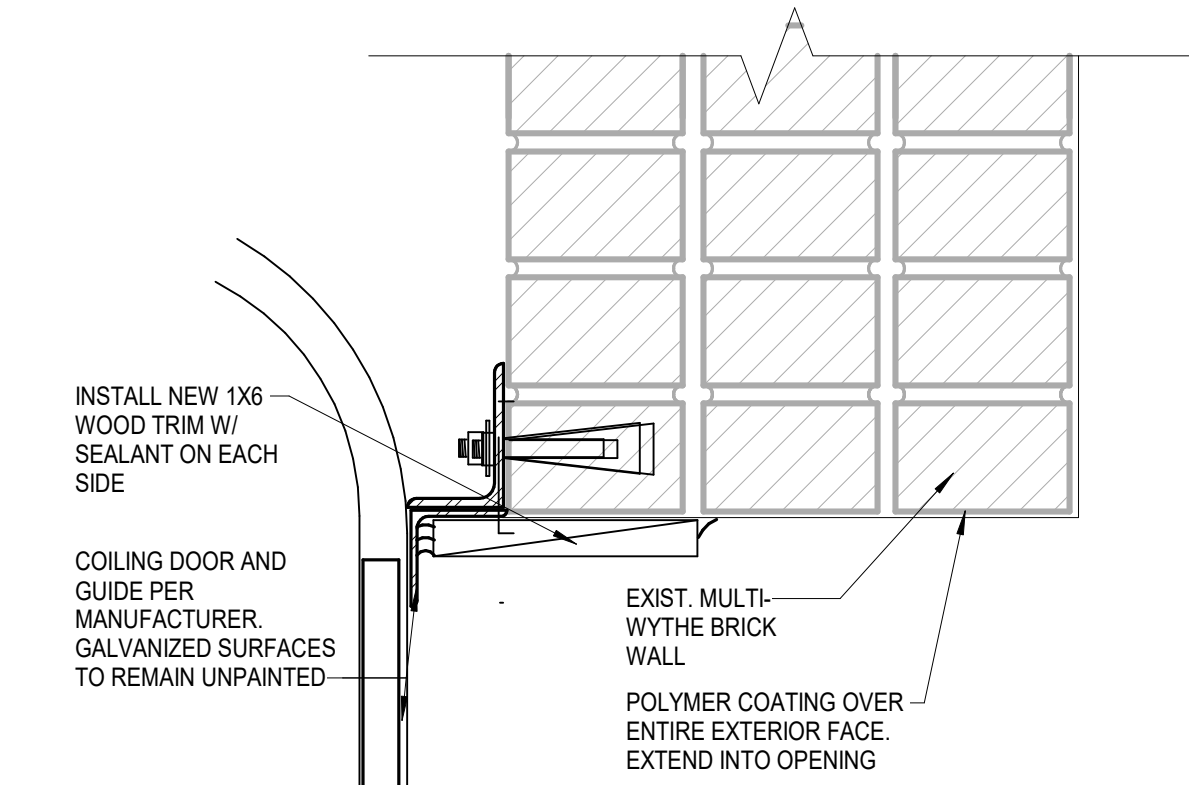
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STOREFRONT HEAD @ C.PLASTER
CANOPY
3" = 1'-0"



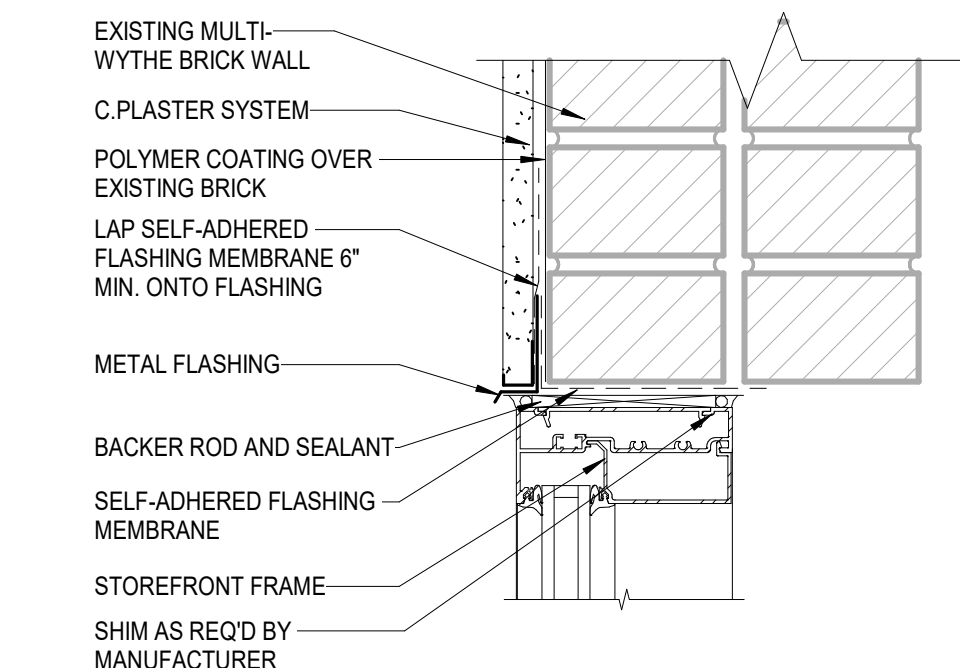
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STOREFRONT SILL @ EXIST PRECAST
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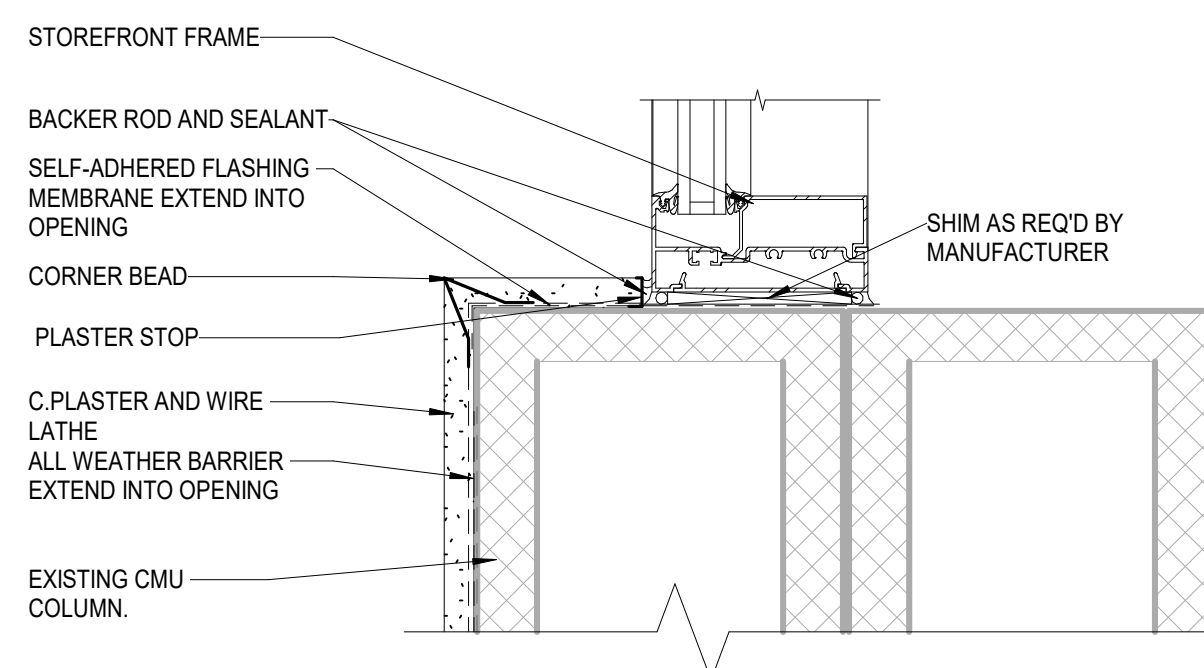
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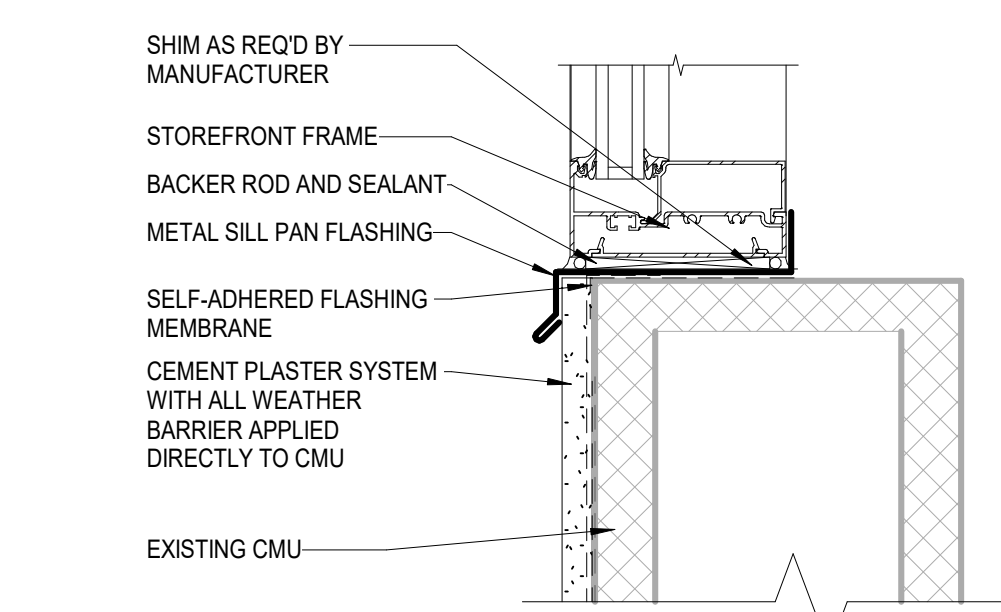
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HEAD @ OVERHEAD DOOR
3" = 1'-0"



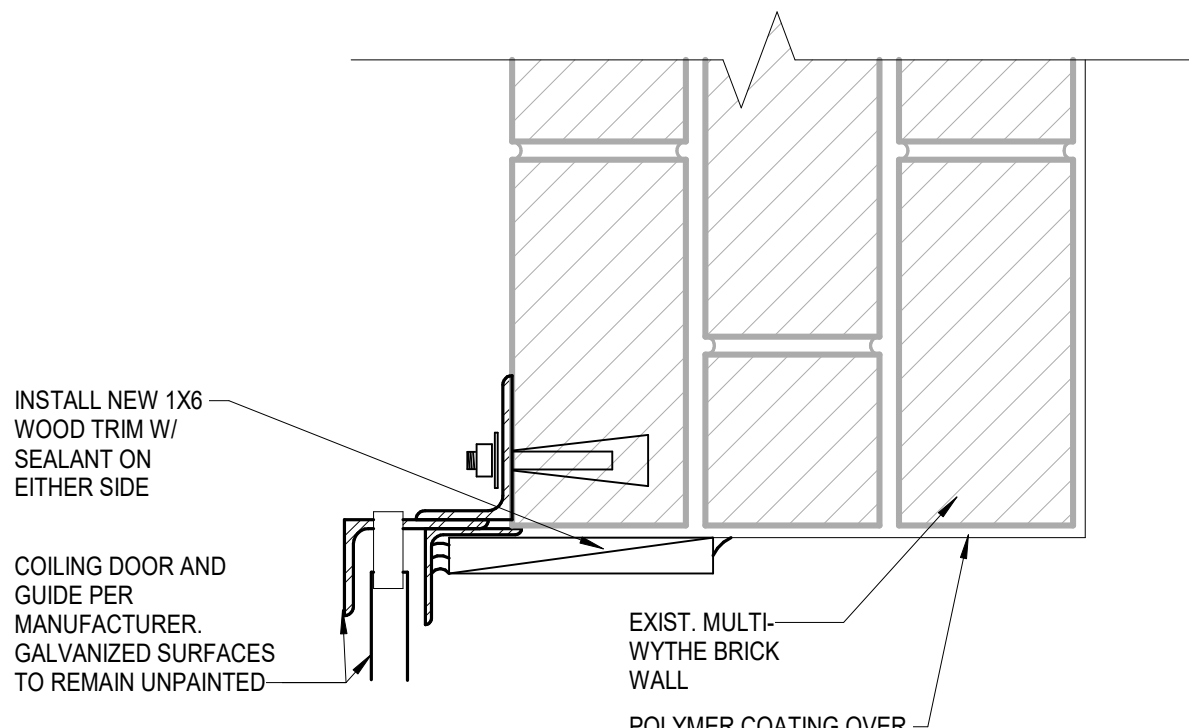
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STOREFRONT HEAD @ C.PLASTER
3" = 1'-0"



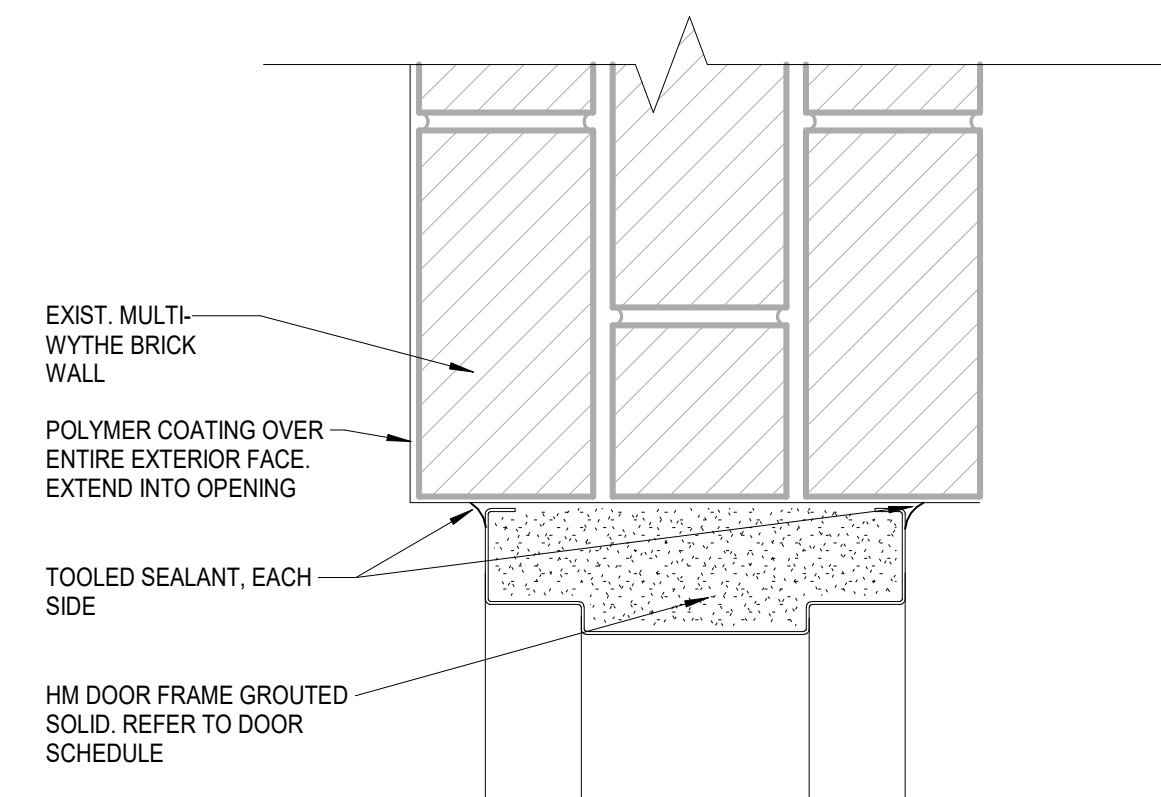
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STOREFRONT JAMB @ C.PLASTER
COL.
3" = 1'-0"



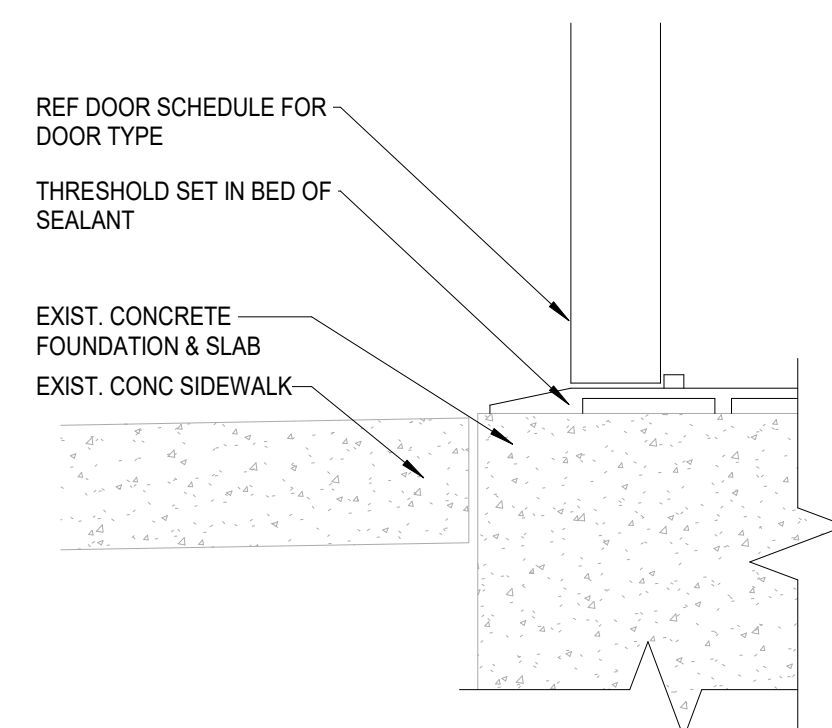
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3" = 1'-0"



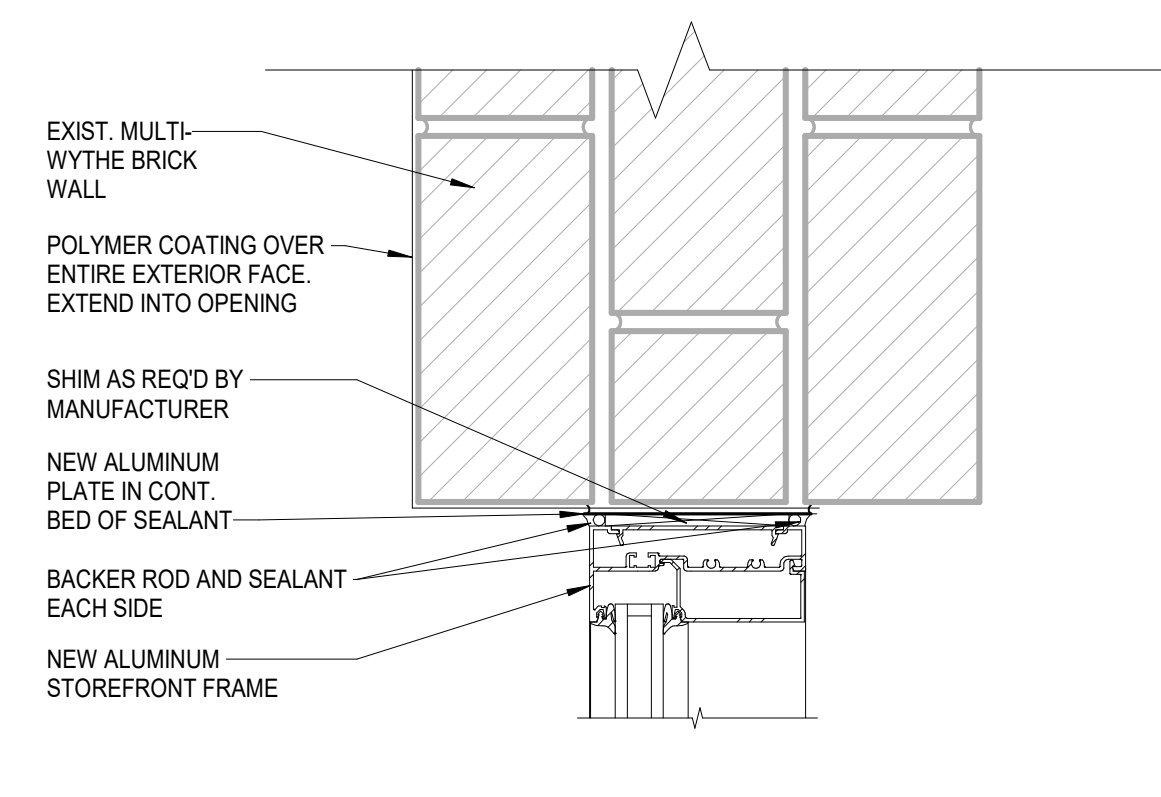
8
A210
JAMB @ OVERHEAD DOOR
3" = 1'-0"



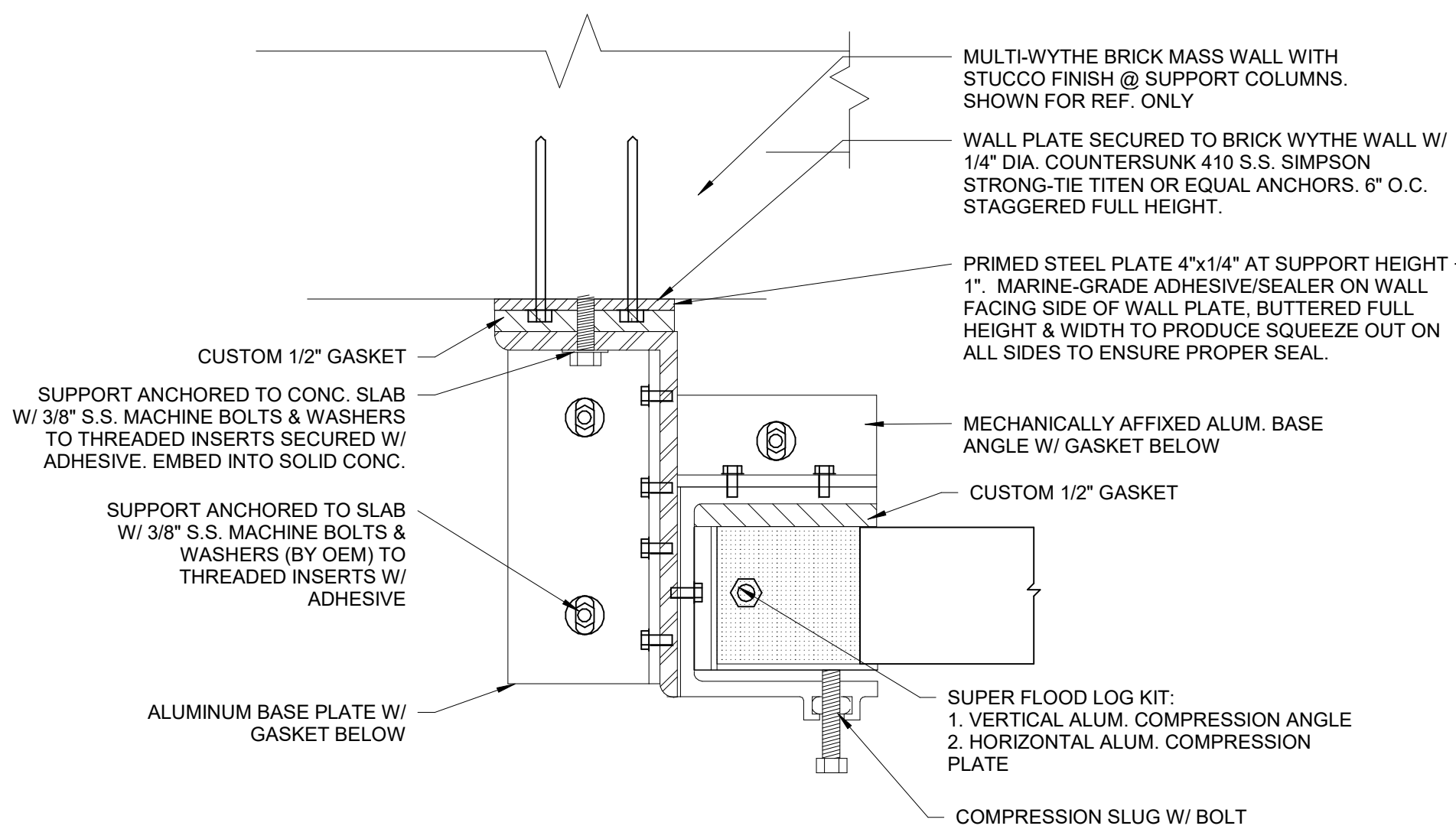
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A210
JAMB @ HM DOOR FRAME
3" = 1'-0"



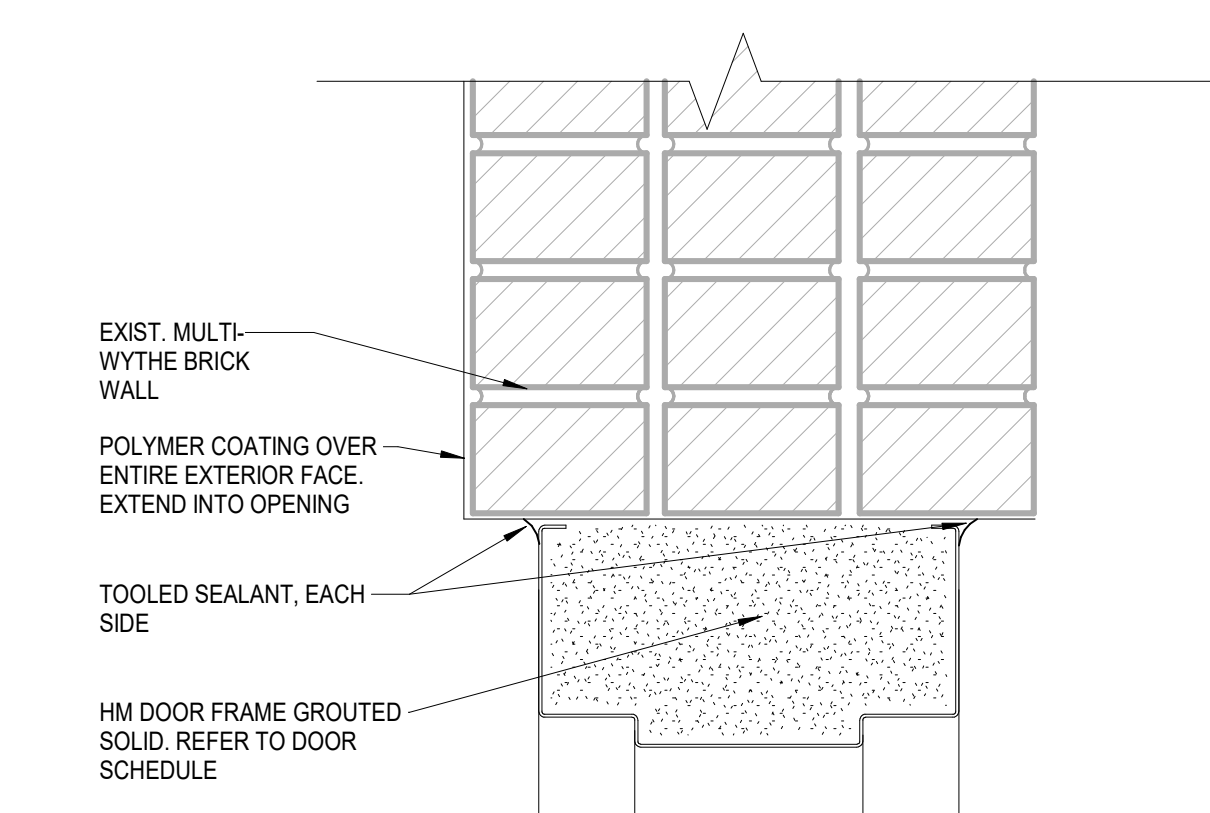
6
A210
GRADE DETAIL @ THRESHOLD
3" = 1'-0"



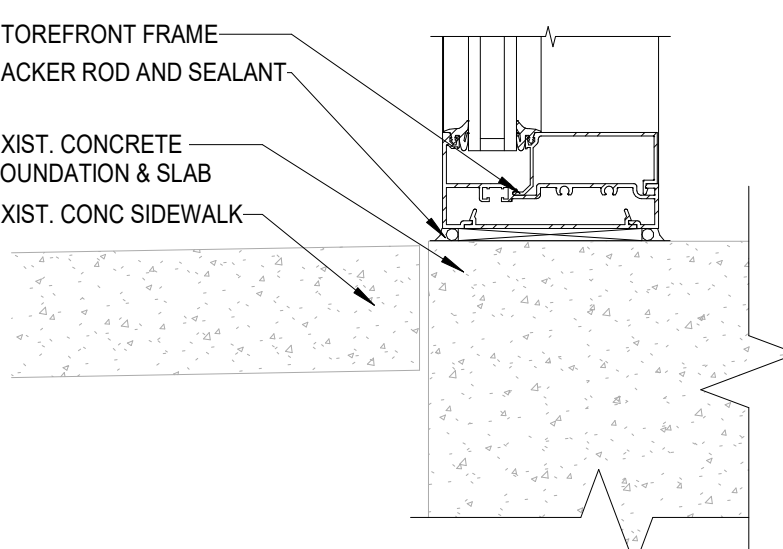
5
A210
STOREFRONT JAMB @ BRICK
3" = 1'-0"



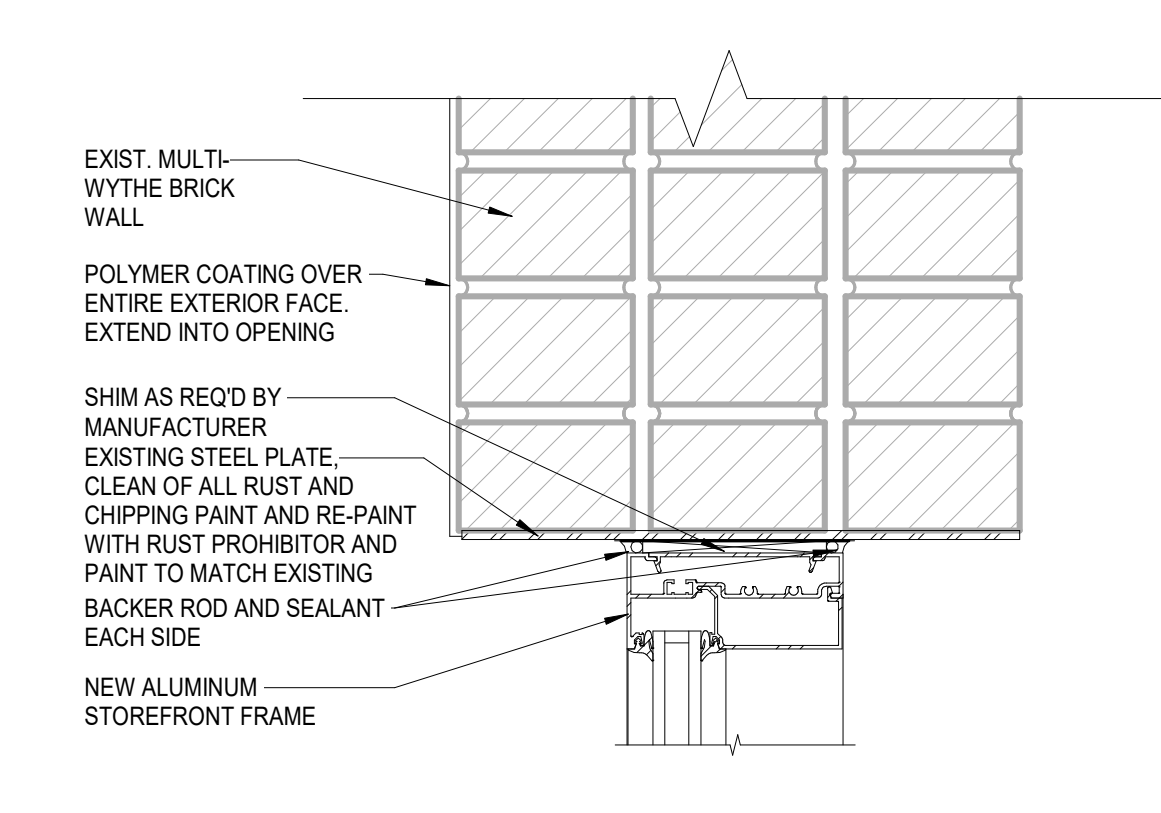
4
A210
FLOOD BARRIER SUPPORT
CONNECTION (PLAN VIEW) - ALT. 2
3" = 1'-0"



3
A210
HEAD @ HM DOOR FRAME
3" = 1'-0"



2
A210
GRADE DETAIL @ STOREFRONT
3" = 1'-0"



1
A210
STOREFRONT HEAD @ BRICK
3" = 1'-0"



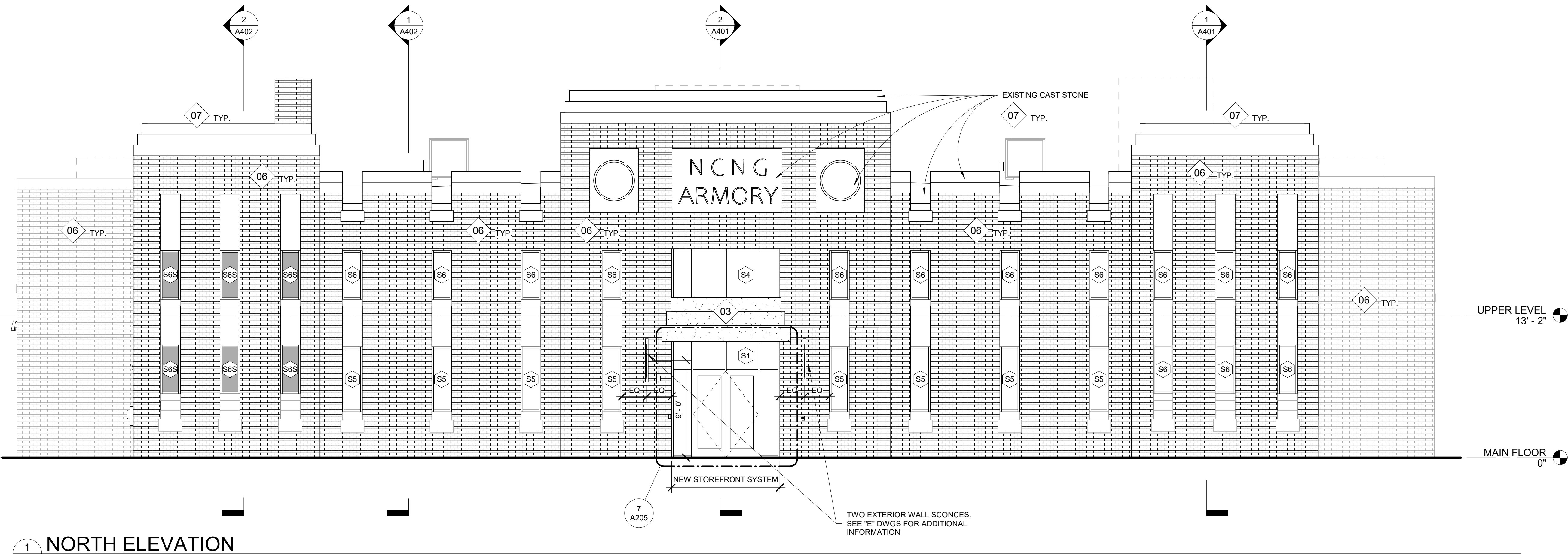
NORTH ELEVATION - SHOWN FOR INFORMATION ONLY



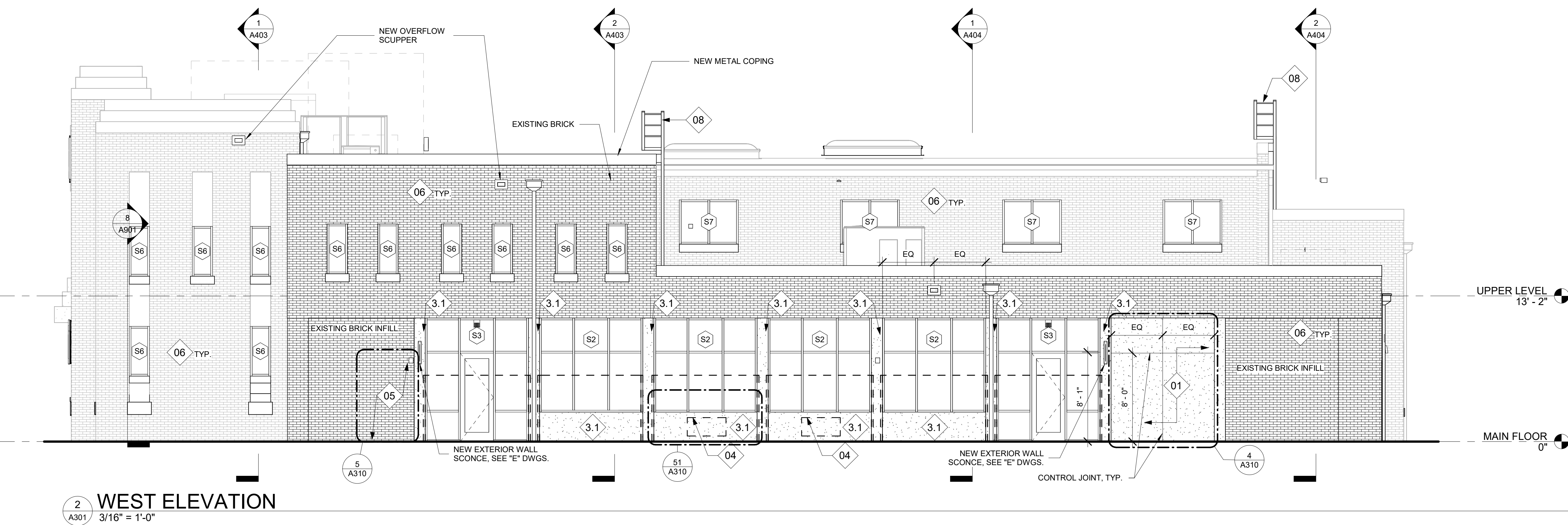
WEST ELEVATION - SHOWN FOR INFORMATION ONLY



SOUTHWEST ELEVATION - SHOWN FOR INFORMATION ONLY



1 NORTH ELEVATION
3/16" = 1'-0"



2 WEST ELEVATION
3/16" = 1'-0"

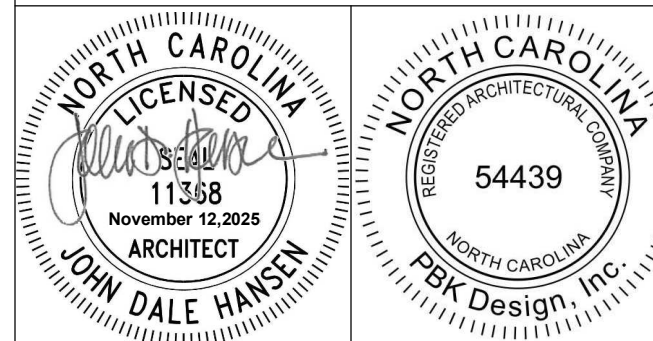
GENERAL ELEVATION NOTES	
1. Repair masonry veneer per section 04 11 24. Provide unit price No. 2 per section 01 22 00. 18. B. Unit price shall be applied to all exterior masonry as noted in keynote legend item #6.	
KEY NOTE LEGEND	
01 CEMENT PLASTER SYSTEM WITH ALL WEATHER BARRIER APPLIED DIRECTLY TO CMU INFILL	05 INFILL WITH CMU AND BRICK TO MATCH EXISTING WHERE DOOR REMOVED
02 REPLACE DOOR WITH INSULATED SECTIONAL OVERHEAD DOOR	06 REPAINT BRICK MORTAR JOINTS AS NEEDED. PREP TO RECEIVE POLYMER SEALANT. REPLACE SPALDING BRICK. REF: 18/A310
03 CLEAN AND PAINT CEMENT PLASTER SYSTEM. REPAIR DAMAGED/SPALDING STUCCO. REPLACE ALL SEALANT JOINTS.	07 PATCH AND REPAIR ALL CAST STONE CRACKS. PREP TO RECEIVE POLYMER SEALANT ON ALL CONCRETE SURFACES
3.1 CEMENT PLASTER SYSTEM WITH ALL WEATHER BARRIER APPLIED DIRECTLY TO EXISTING CMU	08 NEW ROOF LADDER. GALVANIZED PAINTED STEEL. PAINTED P-2. SEE DETAIL 4/A501. DESIGN AND ENGINEERING BY CONTRACTOR SHALL MEET ALL REGULATORY STANDARDS.
04 INFILL MECHANICAL UNIT OPENING WITH CMU.	

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DATE: 11/12/2025
PROJECT NO: 23029
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EXTERIOR ELEVATIONS

A301



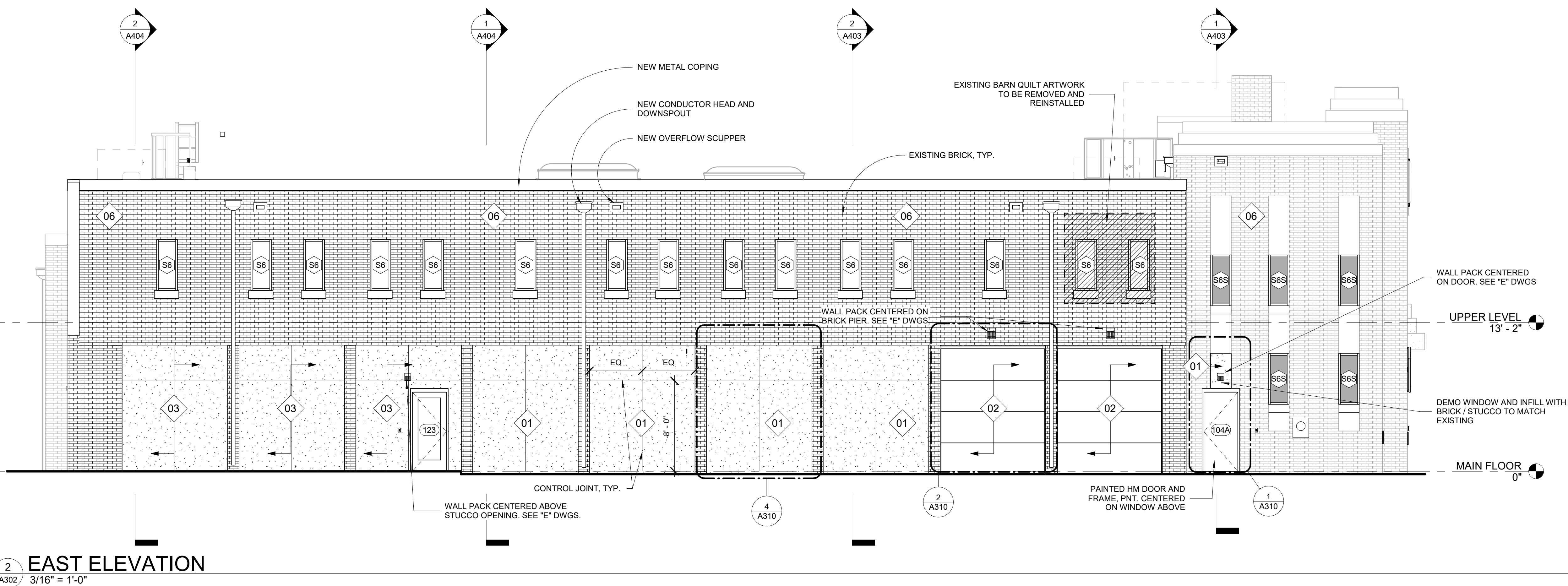
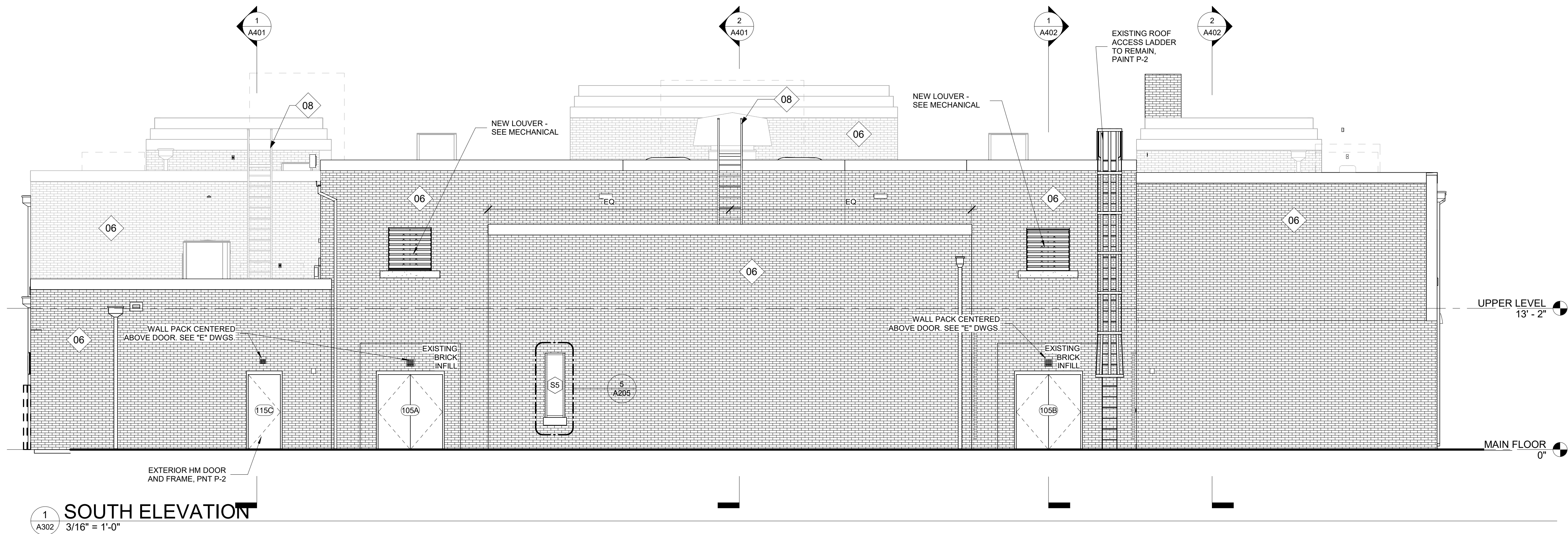
SOUTH ELEVATION - SHOWN FOR INFORMATION ONLY



NORTH EAST ELEVATION - SHOWN FOR INFORMATION ONLY



EAST ELEVATION - SHOWN FOR INFORMATION ONLY



GENERAL ELEVATION NOTES

1. Repair masonry veneer per section 04 11 24. Provide unit price No. 2 per section 01 22 00. 18. B. Unit price shall be applied to all exterior masonry as noted in keynote legend item #6.

KEY NOTE LEGEND

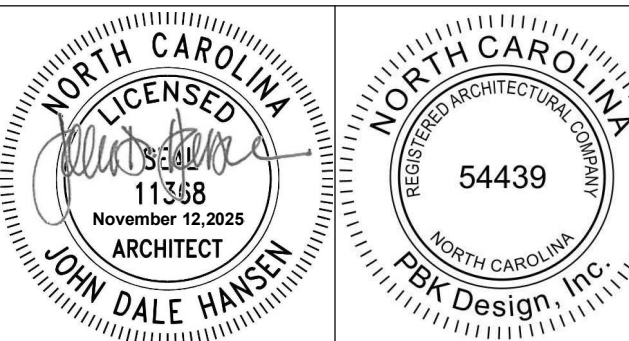
- | | | | |
|-----|--|----|--|
| 01 | CEMENT PLASTER SYSTEM WITH ALL WEATHER BARRIER APPLIED DIRECTLY TO CMU INFILL | 05 | INFILL WITH CMU AND BRICK TO MATCH EXISTING WHERE DOOR REMOVED |
| 02 | REPLACE DOOR WITH INSULATED SECTIONAL OVERHEAD DOOR | 06 | REPAINT BRICK MORTAR JOINTS AS NEEDED. PREP TO RECEIVE POLYMER SEALANT. REPLACE SPALDING BRICK. REF: 18/A310 |
| 03 | CLEAN AND PAINT CEMENT PLASTER SYSTEM. REPAIR DAMAGED/SPALDING STUCCO. REPLACE ALL SEALANT JOINTS. | 07 | PATCH AND REPAIR ALL CAST STONE CRACKS. PREP TO RECEIVE POLYMER SEALANT ON ALL CONCRETE SURFACES |
| 3.1 | CEMENT PLASTER SYSTEM WITH ALL WEATHER BARRIER APPLIED DIRECTLY TO EXISTING CMU | 08 | NEW ROOF LADDER. GALVANIZED PAINTED STEEL. PAINTED P-2. SEE DETAIL 4/A501. DESIGN AND ENGINEERING BY CONTRACTOR SHALL MEET ALL REGULATORY STANDARDS. |
| 04 | INFILL MECHANICAL UNIT OPENING WITH CMU. | | |

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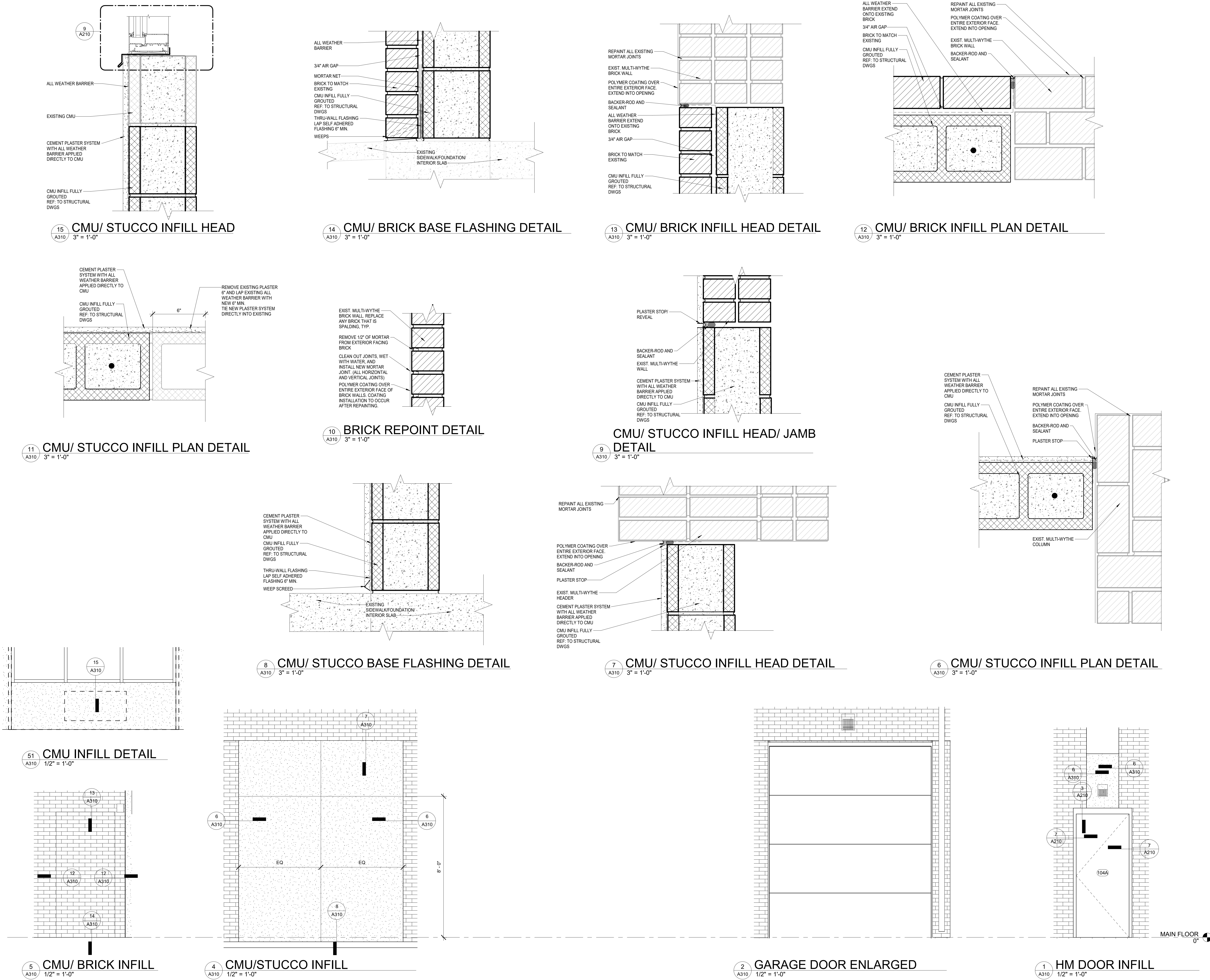
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EXTERIOR ELEVATIONS

A302



F

E

D

C

B

A

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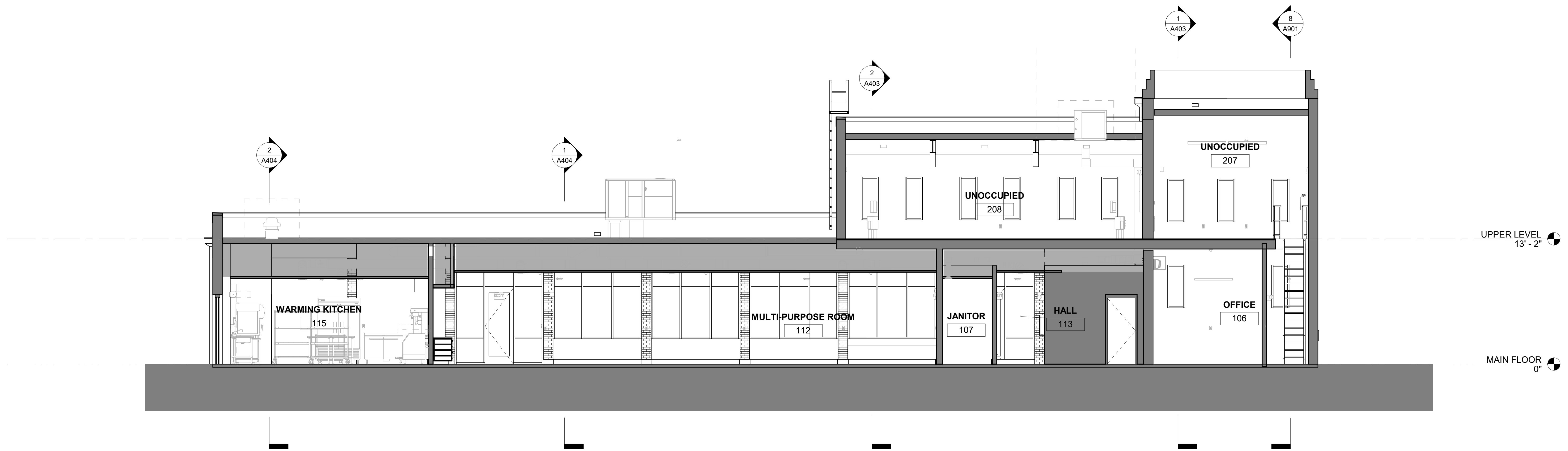
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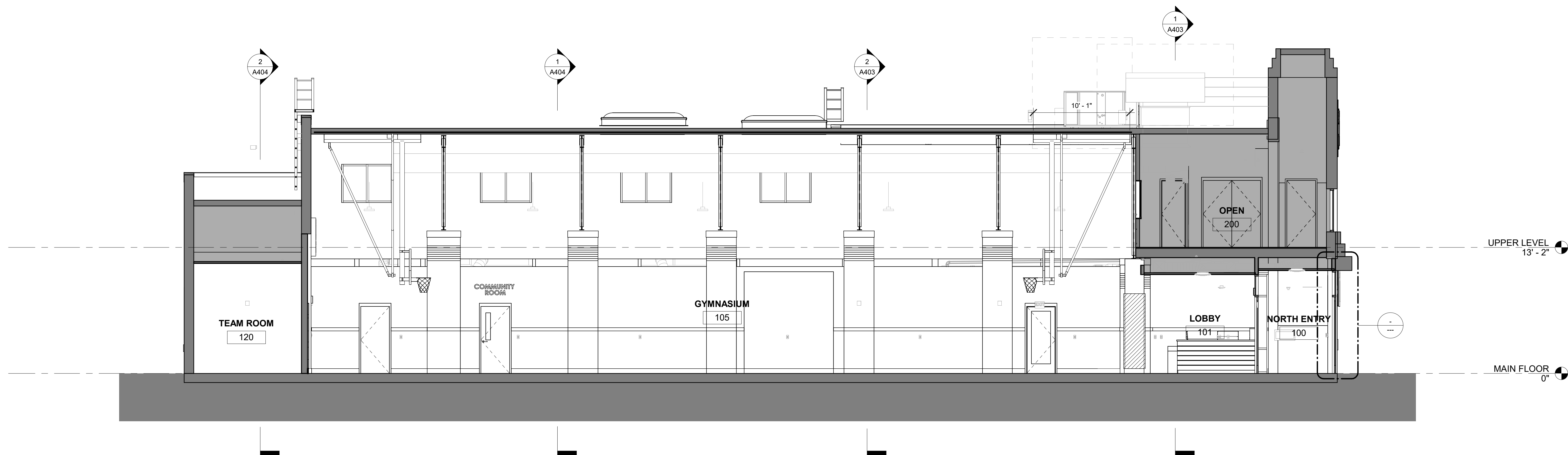
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LONGITUDINAL BUILDING
SECTIONS

A401



1 LONGITUDINAL SECTION THRU MULTI-PURPOSE ROOM
3/16" = 1'-0"



2 LONGITUDINAL SECTION THRU GYMNASIUM/ENTRANCE
3/16" = 1'-0"

7

6

5

4

3

2

1

A

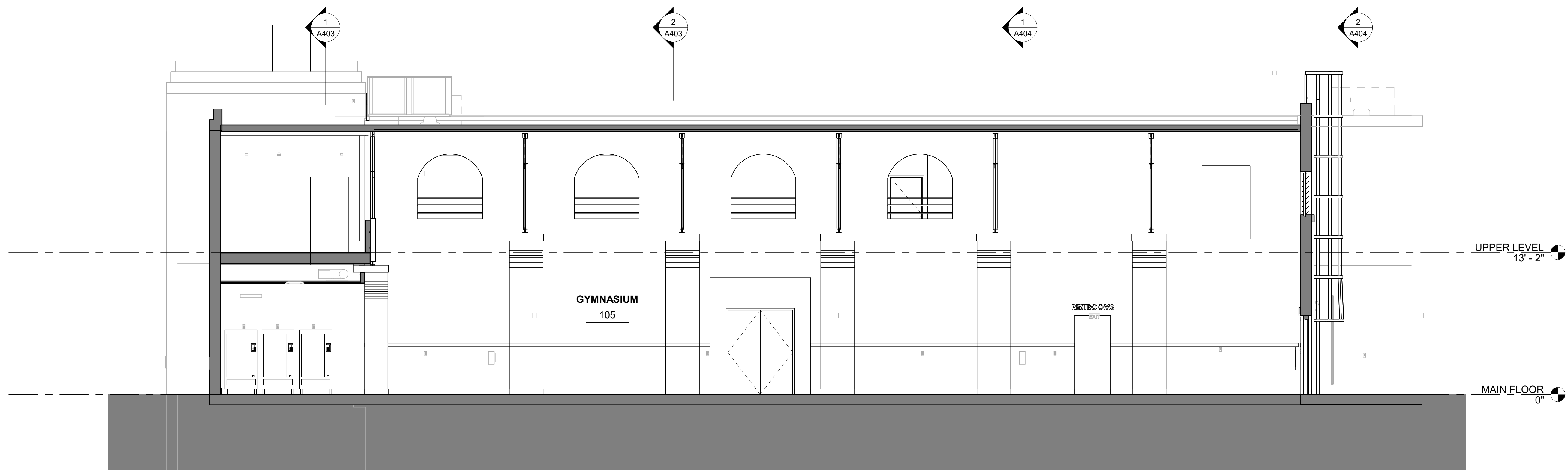
B

C

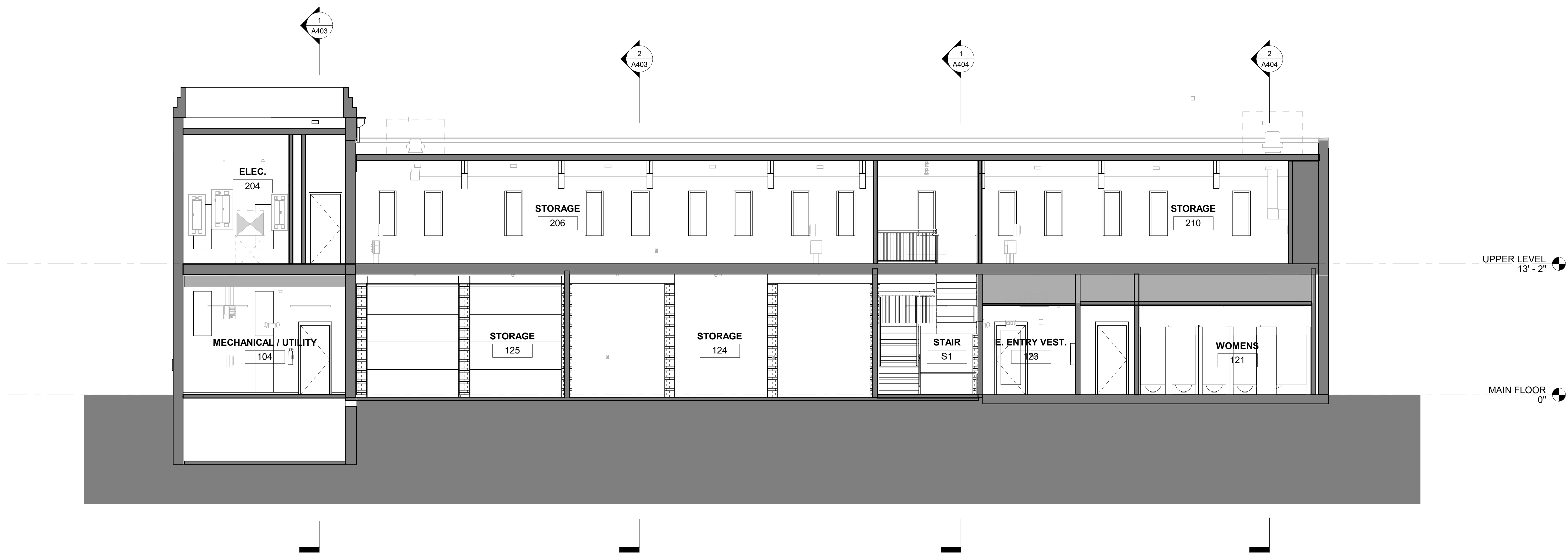
D

E

F



1 BUILDING SECTION
3/16" = 1'-0"



2 BUILDING SECTION
3/16" = 1'-0"

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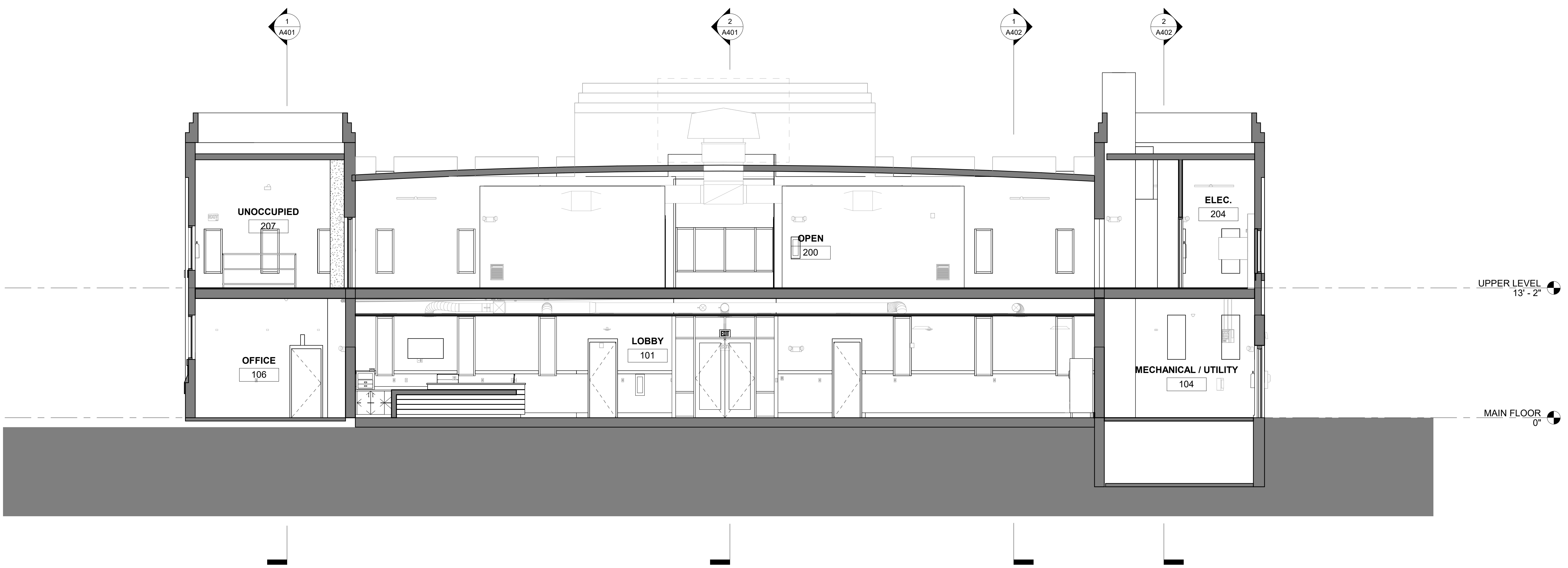
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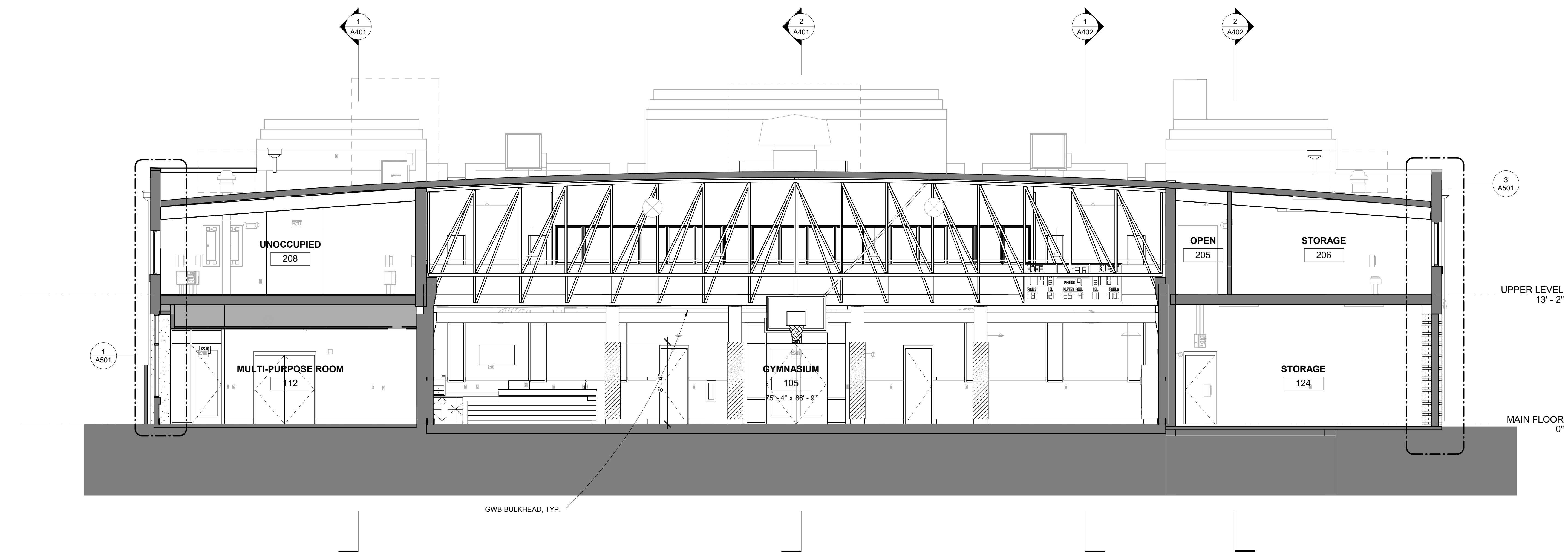
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LONGITUDINAL BUILDING
SECTIONS

A402



1 TRANSVERSE SECTION THRU LOBBY + MEZZANINE
A403 3/16" = 1'-0"



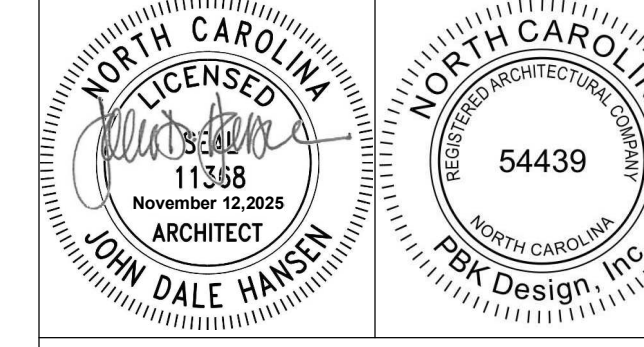
2 TRANSVERSE SECTION THRU MULTIPURPOSE ROOMS, GYMNASIUM, + STORAGE
A403 3/16" = 1'-0"

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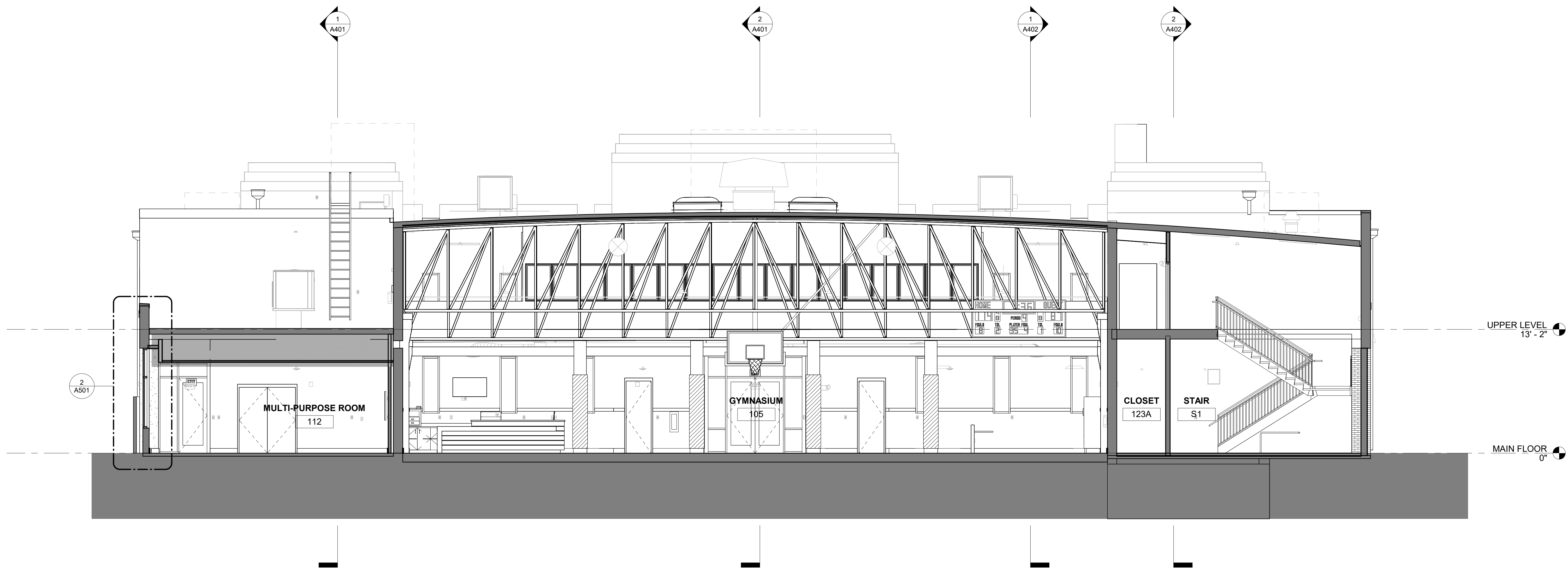
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TRANSVERSE BUILDING
SECTIONS

A403



1 TRANSVERSE SECTION THRU KITCHEN, GYMNASIUM, + UNISEX RESTROOMS
A404 3/16" = 1'-0"



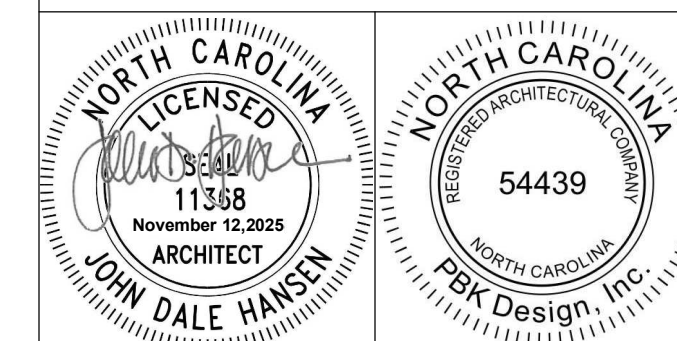
2 TRANSVERSE SECTION THRU KITCHEN, STORAGE, AND LARGE RESTROOM
A404 3/16" = 1'-0"

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TRANSVERSE BUILDING
SECTIONS

A404

Autodesk Docs://Canton Armory/Canton Armory Architectural.rvt
11/13/2025 11:35:49 AM

7

6

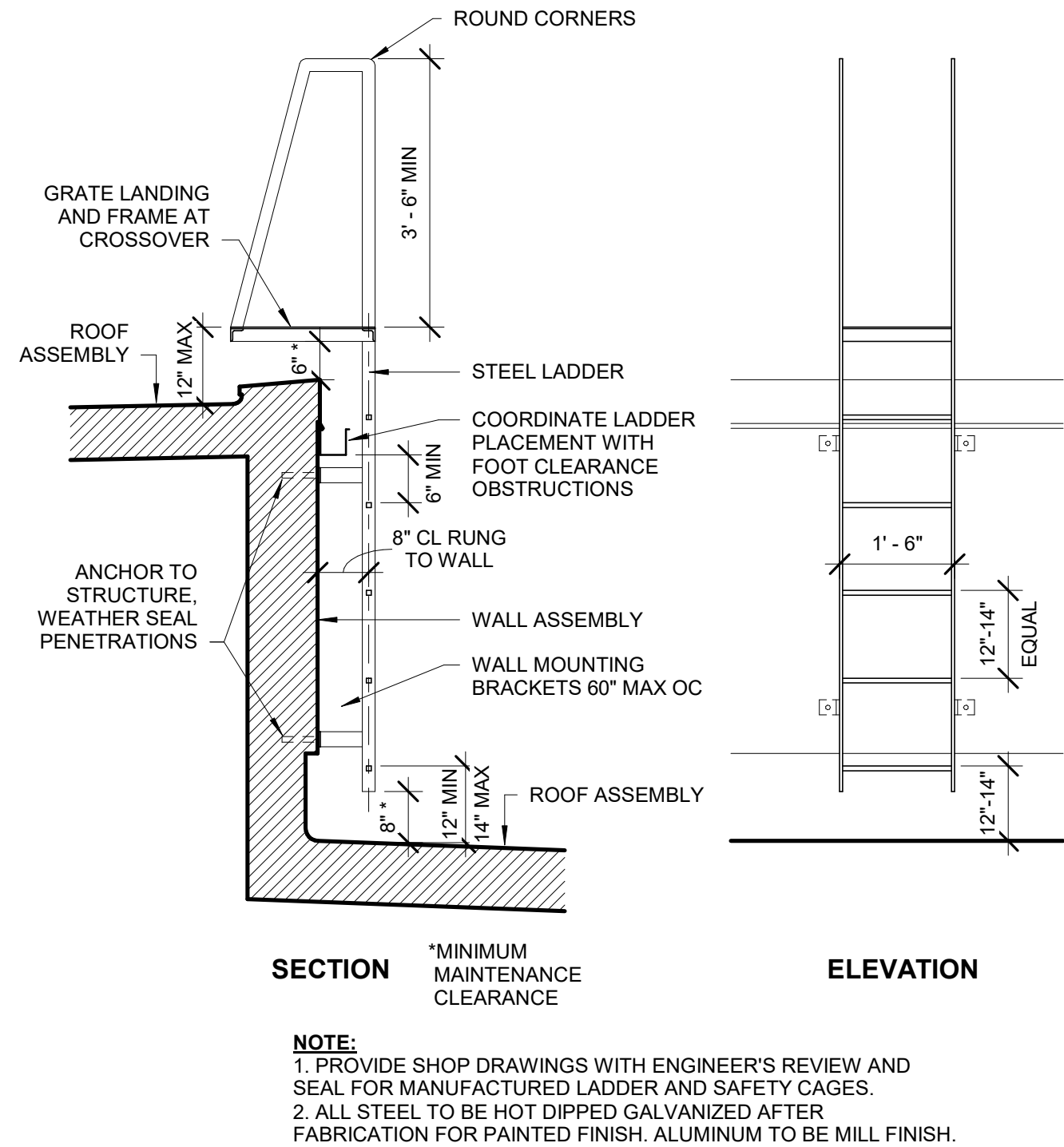
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4

3

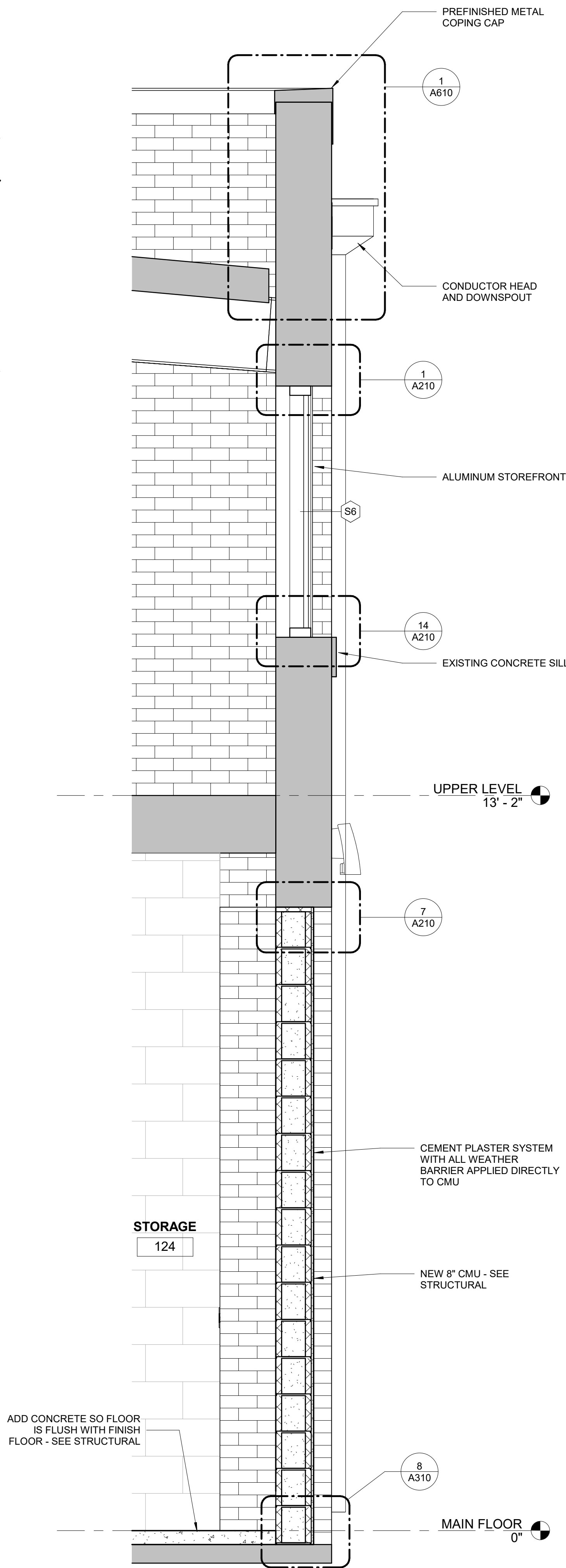
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1



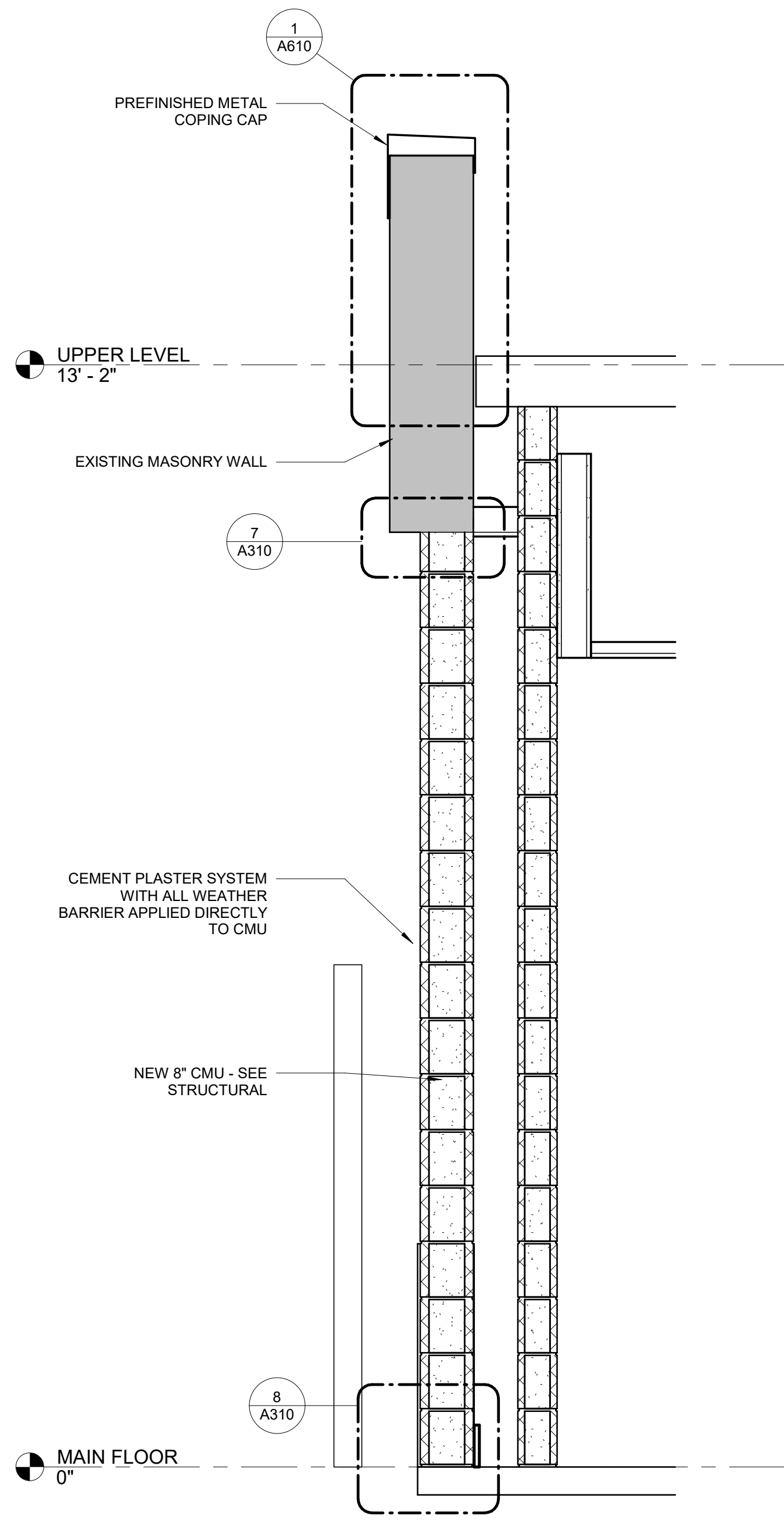
4
A501 / 1/2" = 1'-0"

ROOFTOP LADDER DETAIL



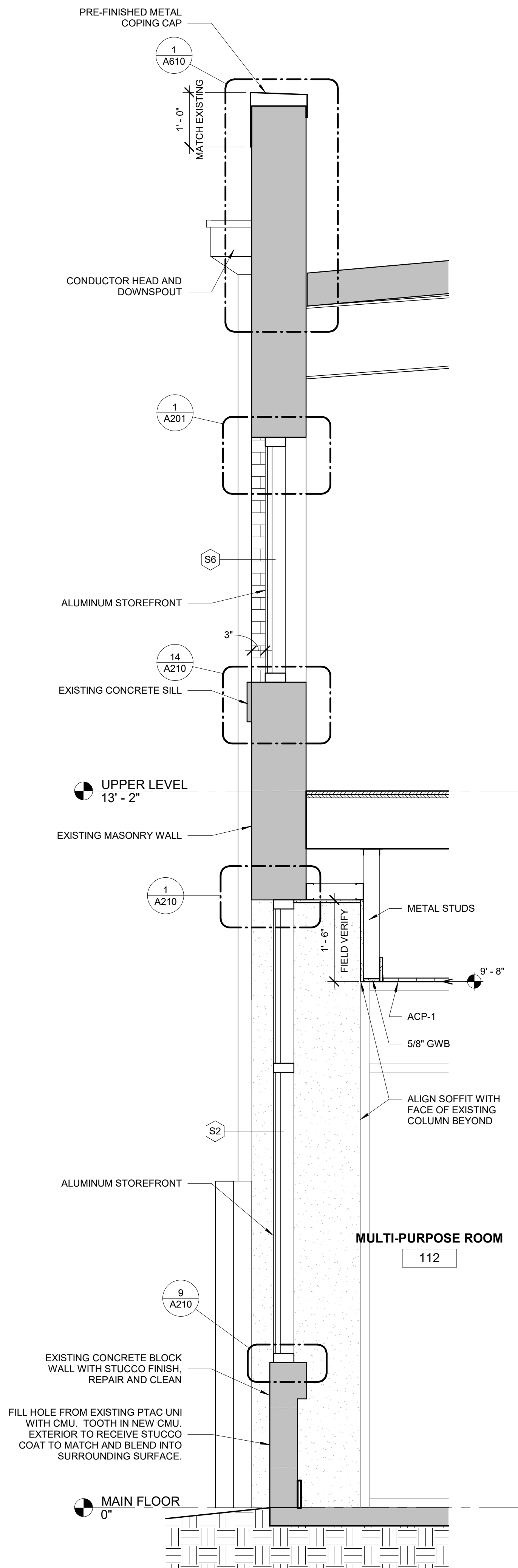
3
A501 / 3/4" = 1'-0"

WS @ EAST FACACE / STORAGE



2
A501 / 3/4" = 1'-0"

WS @ WEST FACADE / KITCHEN



1
A501 / 3/4" = 1'-0"

WS @ W. FACADE / MULTI PURPOSE

F

E

D

C

B

A

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•Architecture

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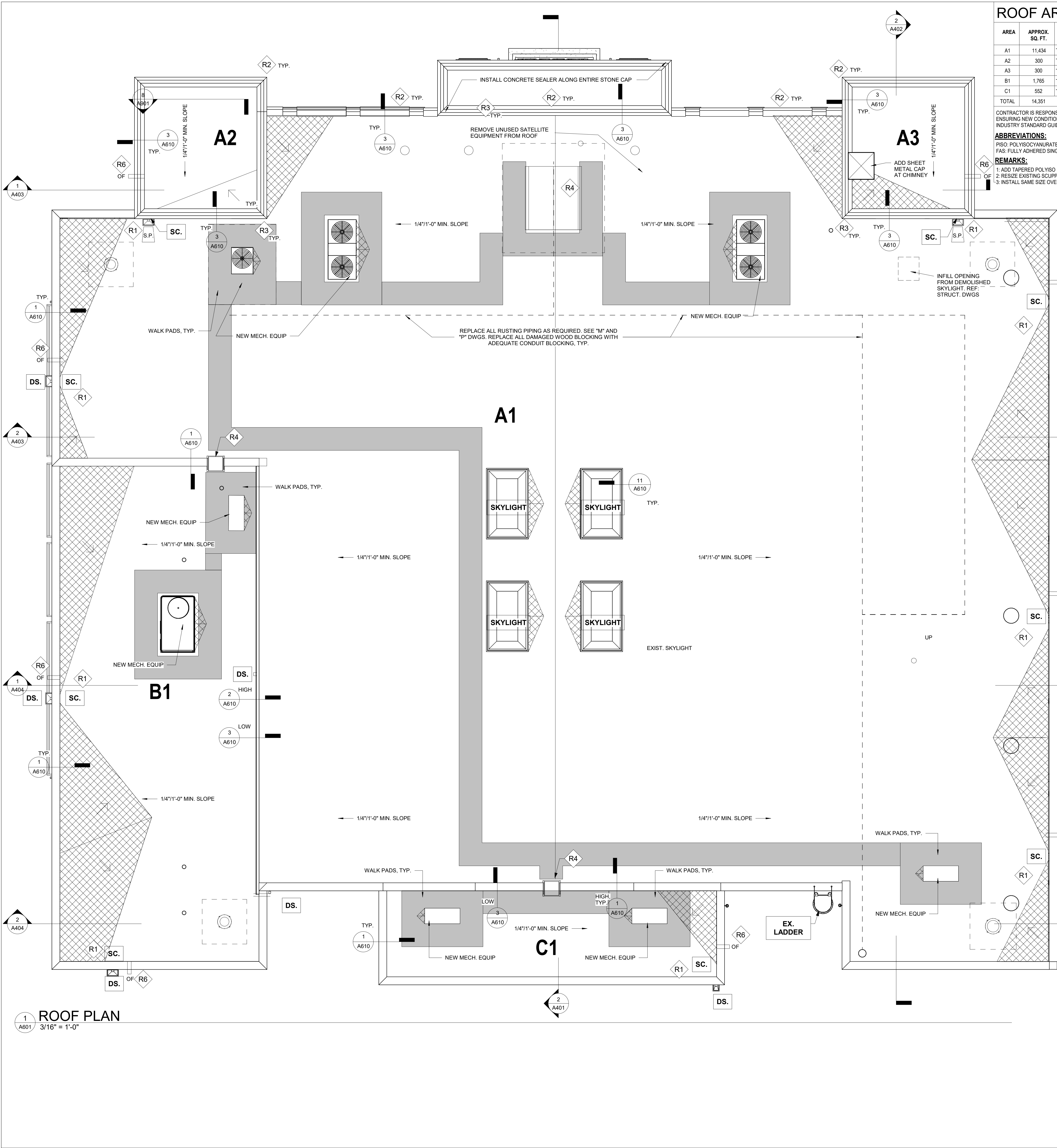
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WALL SECTIONS

A501

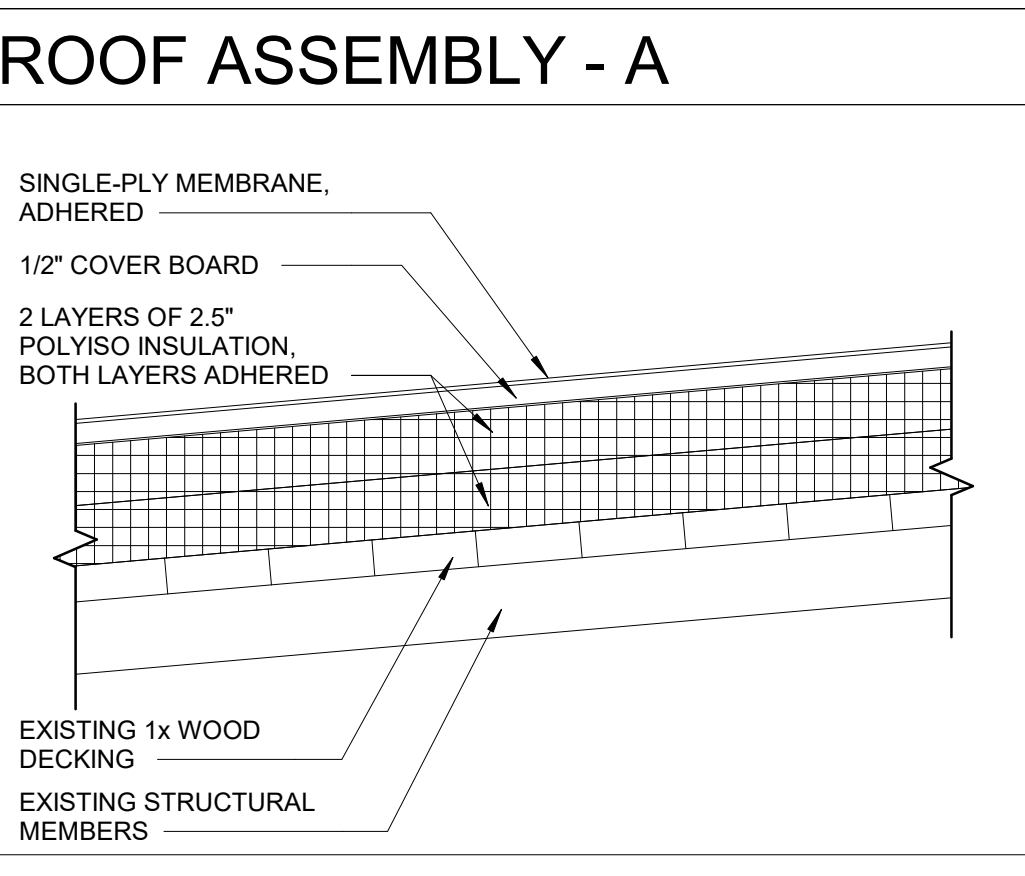


ROOF AREAS			
AREA	APPROX. SQ. FT.	EXISTING NOMENCLATURE (CONTRACTOR TO VERIFY)	PROPOSED ASSEMBLY
A1	11,434	TPO/PIISO(1")TPO/PIISO(3")1x WOOD DECK	A
A2	300	TPO/PIISO(1")TPO/PIISO(3")1x WOOD DECK	A
A3	300	TPO/PIISO(1")TPO/PIISO(3")1x WOOD DECK	A
B1	1,765	TPO/PIISO(1")TPO/PIISO(3")1x WOOD DECK	A
C1	552	TPO/PIISO(1")TPO/PIISO(3")1x WOOD DECK	A
TOTAL	14,351		

CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND FOR ENSURING NEW CONDITIONS ADHERE TO ALL LOCAL AND FEDERAL CODES ALONG WITH INDUSTRY STANDARD GUIDELINES AND REMAIN IN A WATERTIGHT CONDITION

ABBREVIATIONS:
PIISO: POLYISOCYANURATE (THICKNESS)
FAS: FULLY ADHERED SINGLE PLY

REMARKS:
1. ADD TAPERED POLYISO INSULATION FOR POSITIVE DRAINAGE TO EXISTING SCUPPERS.
2. RESIZE EXISTING SCUPPERS ACCORDING TO SHEET A602 - DRAINAGE CALCULATIONS.
3. INSTALL SAME SIZE OVERFLOWS ADJACENT TO ALL EXISTING SCUPPERS.



ROOF PLAN LEGEND	
DS.	DOWNSPOUT. REF: 10 & 14/A610
SC.	SCUPPER. REF: 4/A610
SKYLIGHT	SKYLIGHT ON EXISTING CURB. REF: 11/A610
OF	OVERFLOW SCUPPER. REF: 5/A610
SLOPE	EXISTING ROOF SLOPE
TAPERED INSULATION	TAPERED INSULATION
WALK PADS	WALK PADS. REF: 15/A610
SPLASH PAN	SPLASH PAN. REF: 18/A610

- ROOF KEYNOTES**
- R1** REMOVE EXISTING SCUPPER IN ITS ENTIRETY INCLUDING OUTLET WITH PICTURE FRAME AND SQUARE PIPE CONNECTING SCUPPER TO OUTLET. PREP TO RECEIVE NEW SCUPPER (REF: 3/A610). VERIFY ON SHEET A602 REQ'D SCUPPER SIZE. RESIZE SCUPPER AS NEEDED.
 - R2** PATCH AND REPAIR CONCRETE COPING CRACKS. PREP TO RECEIVE POLYMER SEALANT ON ALL CONCRETE SURFACES.
 - R3** REPAINT ALL BRICK MORTAR JOINTS. PREP TO RECEIVE POLYMER SEALANT. REPLACE SPALDING BRICK. REF: 18/A610
 - R4** PAINTED GALVANIZED STEEL LADDER SEE DETAIL 4/A501. DESIGN AND ENGINEERING BY CONTRACTOR SHALL MEET ALL REGULATORY STANDARDS.
 - R6** INSTALL NEW OVERFLOW OUTLET. REF DETAIL 5/A610

- GENERAL ROOF NOTES**
- CONTRACTOR SHALL VISIT SITE TO ASCERTAIN EXACT EXISTING CONDITIONS AND COMPONENTS RELATED TO THE WORK DESCRIBED BY THESE DOCUMENTS. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUEST FOR ADDITIONAL MONEY SHALL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING THE SITE VISIT BY THE CONTRACTOR. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ACCEPTED MANUFACTURERS PRINTED INSTRUCTIONS AND WARRANTY REQUIREMENTS.
 - DIMENSIONS, DETAILS, EQUIPMENT SIZE AND LOCATION SHOWN IN THESE CONSTRUCTION DOCUMENTS ARE FOR CONVEYANCE OF DESIGN INTENT ONLY. EXACT SIZE, LOCATION, TYPE OF MATERIAL, AND TYPE OF CONSTRUCTION OF EXISTING CONDITIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN AND CONFIRM.
 - INDICATED ROOF HEIGHTS ARE GENERAL IN NATURE.
 - REFER TO NOMENCLATURE FOR TYPE OF ROOF SYSTEM. AREAS ARE MARKED WITH DESIGNATED LETTER ON ROOF PLAN.
 - NOTE THAT THE DETAILS DRAWN ARE GENERIC IN NATURE AND ARE NOT NECESSARILY LOCATED AND KEYED TO THE ROOF PLANS.
 - REMOVE ALL ABANDONED EQUIPMENT IDENTIFIED ON SITE AND AS SHOWN OTHERWISE ON THESE DOCUMENTS.
 - ALL NEW CRICKETS AND TAPERED INSULATION SHALL BE INSTALLED WITH A FINISHED 1/4" PER FOOT MIN. SLOPE. CRICKET THE UP SLOPE SIDE OF ALL SQUARE CURBS AND PROJECTIONS OVER 20" IN WIDTH.
 - REPLACE ROTTED AND / OR OTHERWISE DETERIORATED ROOF DECK MATERIALS (AS APPLICABLE) WITH LIKE MATERIAL AND THICKNESS.
 - REPLACE ROTTEN AND / OR OTHERWISE DETERIORATED WOOD NAILER MATERIAL WITH NEW LIKE MATERIAL AND THICKNESS.
 - PATCH EXISTING METAL ROOF DECK (AS APPLICABLE) FOR HOLES LESS THAN 10" WIDE BY ANCHORING 22 GA. STAINLESS STEEL SHEET METAL TO BOTTOM OF EXISTING METAL ROOF DECK AND ADDING NEW INSULATION TO MATCH THICKNESS. PATCH EXISTING METAL ROOF DECK FOR HOLES GREATER THAN 10" WIDE BY ANCHORING 22 GA. STAINLESS STEEL SHEET METAL TO BOTTOM OF EXISTING METAL ROOF DECK SPANNING FROM JOIST TO JOIST.
 - AS APPLICABLE, ALL HVAC AND / OR DX UNITS, ELECTRICAL TRANSFORMERS, ROOF TOP EQUIPMENT, ETC. THAT ARE ON SLEEPERS SHALL BE DISCONNECTED / REMOVED, RAISED, AND PLACED ON NEW CURBED PLATFORMS AS DETAILED AND REINSTALLED / RECONNECTED. ALL CURB MOUNTED HVAC UNITS, EQUIPMENT, ETC. SHALL HAVE A MINIMUM 10" CURB HEIGHT AND ARE TO BE RAISED AS REQUIRED.
 - WORK TO ANY UTILITY CONDUIT OR PIPE SHALL BE PERFORMED BY SPECIFIC LICENSED SUBCONTRACTORS SPECIALIZING IN HVAC, PLUMBING AND ELECTRICAL WORK. PERMITS AND INSPECTIONS ARE REQUIRED. REROUTE AND / OR MODIFY UTILITY CONDUIT OR PIPE AS REQUIRED TO BE INSTALLED AS DETAILED.
 - PROVIDE A "MERCURY GAS LINE TEST" (COORDINATE WITH OWNER AND ARCHITECT FOR WITNESS OF TEST). REPAIR ANY FOUND LEAKS AND RETEST AS REQUIRED.
 - UNLESS INDICATED OTHERWISE ON THE CONSTRUCTION DOCUMENTS, REPLACE AND RAISE ALL EXISTING EXPANSION JOINTS / AREA DIVIDERS / CURB MOUNTED EQUIPMENT / SKYLIGHTS (AS APPLICABLE) A MIN. 10" ABOVE ROOF DECK.
 - ALL SOIL STACK FLASHING SHALL BE A MIN. 10" ABOVE FINISHED ROOF SURFACE. COUPLE PVC PIPE ABOVE DECK AND COUPLE CAST IRON PIPE BELOW DECK.
 - ALL PIPING / CONDUITS / ETC. SHALL BE A MIN. 10" ABOVE ROOF SURFACE. NEW AND EXISTING PROVIDE PORTABLE PIPE HANGERS WITH PROTECTION PADS AS SPECIFIED. RAISE EXISTING PIPING / CONDUIT ETC. AS REQUIRED. MEP CONTRACTORS SHALL PROVIDE SUPPORTS FOR UTILITY LINES.
 - PROVIDE SHEET METAL HOODED (WITH METAL FACE CLOSURE) CAPS, WOOD CURB, BOX COVER AT ALL GAS AND WATER PIPE ROOF PENETRATIONS AS DETAILED. PROVIDE POSITIVE SLOPE AWAY FROM FACE COVER.
 - PROVIDE WALKWAY PROTECTION PADS AS SPECIFIED AROUND ALL ROOF HATCHES, HVAC ROOFTOP UNITS, DOORS THAT OPEN ONTO ROOF AND AT TOP AND BOTTOM OF ALL ROOF TOP ACCESS LOCATIONS.
 - INSTALL NEW SPLASH PAN AT ALL LOCATIONS WHERE ROOF DRAINAGE DISCHARGES ONTO ROOF AREA. INSTALL NEW SPLASH BLOCKS WHERE ROOF DRAINAGE DISCHARGES ON GROUND.
 - ISOLATE ALL HEAT PIPES / FLUES AS DETAILED AND RECOMMENDED AND OUTLINED IN THE NRCA MANUAL FOR HOT STACK FLASHING AND AS DETAILED.
 - ALL OUTSIDE AIR INTAKES SHALL BE COVERED TO ELIMINATE ODORS AND FUMES FROM ENTERING INTO THE BUILDING DURING CONSTRUCTION WORK.
 - AFTER SUBSTANTIAL COMPLETION, THE GENERAL CONTRACTOR SHALL EXAMINE AND CLEAN NEW DRAIN LINES AND NEW AND EXISTING (AS APPLICABLE) GUTTERS OF DEBRIS AND BLOCKAGE, FLUSH WITH WATER TO ENSURE THAT DRAINS AND GUTTERS FLOW FREELY.
 - OWNER WILL VERIFY PROPER OPERATION OF ALL ROOF TOP EQUIPMENT BEFORE AND AFTER THE PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING ALL INSUPERABLE EQUIPMENT PRIOR TO RELEASE OF RETAINAGE.
 - PRIOR TO COMMENCEMENT OF WORK, COORDINATE WALK OF ENTIRE ROOF WITH ROOFING MANUFACTURER'S TECHNICAL REPRESENTATIVE TO IDENTIFY AND LOCATE ALL AREAS OF HIGH SLOPE OR OTHER CONDITIONS WHICH MIGHT REQUIRE SPECIAL PROCEDURES FOR SYSTEM ATTACHMENT.
 - REFER TO MEP DRAWINGS FOR SIZE AND LOCATION OF DECK PENETRATIONS AND ROOF TOP EQUIPMENT.
 - REFER TO GENERAL DETAILS FOR TYPICAL SPLASH PAN, ROOF DRAIN AND OVERFLOW DRAIN DETAILS.
 - REPLACE ALL RUSTED AND / OR DETERIORATED EXISTING METAL VENT FLASHING AND FLUES.
 - GENERAL CONTRACTOR TO ENSURE ALL ROOFTOP PENETRATIONS: SOL STACKS, VENTS, ETC.) ARE INSTALLED MIN. 4'-0" FROM OTHER DECK PENETRATIONS, RISE WALLS, AND ROOF EDGE. MECHANICAL EQUIPMENT TO BE LOCATED MIN. 10'-0" FROM PERIMETER EDGE AND NO CLOSER THAN 4'-0" FROM RISE WALLS, OR ANY OTHER ROOF PENETRATION.
 - LOCATE PERIMETER DRAINS MAX. 6'-0" FROM EDGE TYPICAL UNLESS SHOWN OTHERWISE. (GENERAL CONTRACTOR TO COORDINATE WITH ROOFING AND PLUMBING CONTRACTOR.)
 - THROUGH WALL BASE FLASHING MIN. HEIGHT 10" AND MAX. HEIGHT 20" FROM FINISH DECK. DO NOT STEP THROUGH WALL FLASHING CLOSER THAN 5'-0" FROM CORNERS.
 - GENERAL CONTRACTOR SHALL COORDINATE LOCATION AND ORIENTATION OF ROOF HATCH AND ACCESS LADDER.
 - GENERAL CONTRACTOR SHALL COORDINATE ALL TOP OF STEEL TO TOP OF BLOCKING AND SUBSTRATE BOARD DIMENSIONS IN FIELD PRIOR TO ORDERING MATERIALS. NO ADDITIONAL COMPENSATION WILL BE GRANTED FOR FAILURE TO COORDINATE THESE DIMENSIONS.
 - GENERAL CONTRACTOR SHALL VERIFY ROOF SLOPES WILL PROPERLY DRAIN AS SHOWN. TAPERED INSULATION HATCHING SHOWN IS NOT INTENDED TO ILLUSTRATE THE ENTIRE LIMITS OF TAPERED INSULATION. ROOF AREAS NOT SLOPED BY STRUCTURE SHALL BE SLOPED WITH TAPERED INSULATION TO ACHIEVE PROPER DRAINAGE.
 - PROVIDE ONE WAY MOISTURE VENTS AT ALL LIGHTWEIGHT CONCRETE OR GYPSUM OVER POUR AREAS AS RECOMMENDED BY THE ROOFING SYSTEM MANUFACTURER.
 - PAIN ALL EXISTING GAS PIPE TO REMAIN.
 - PROVIDE RETROFIT DRAIN KIT FOR EACH EXISTING ROOF DRAIN. RE: SPECS.
 - ALL ROOFING WORK SHALL OCCUR IN SUCH A MANNER AS NOT TO VOID ANY EXISTING ROOF WARRANTIES. CONTRACTOR TO CONTACT ROOFING MANUFACTURER PRIOR TO COMMENCING THE WORK. NO EXCEPTIONS.

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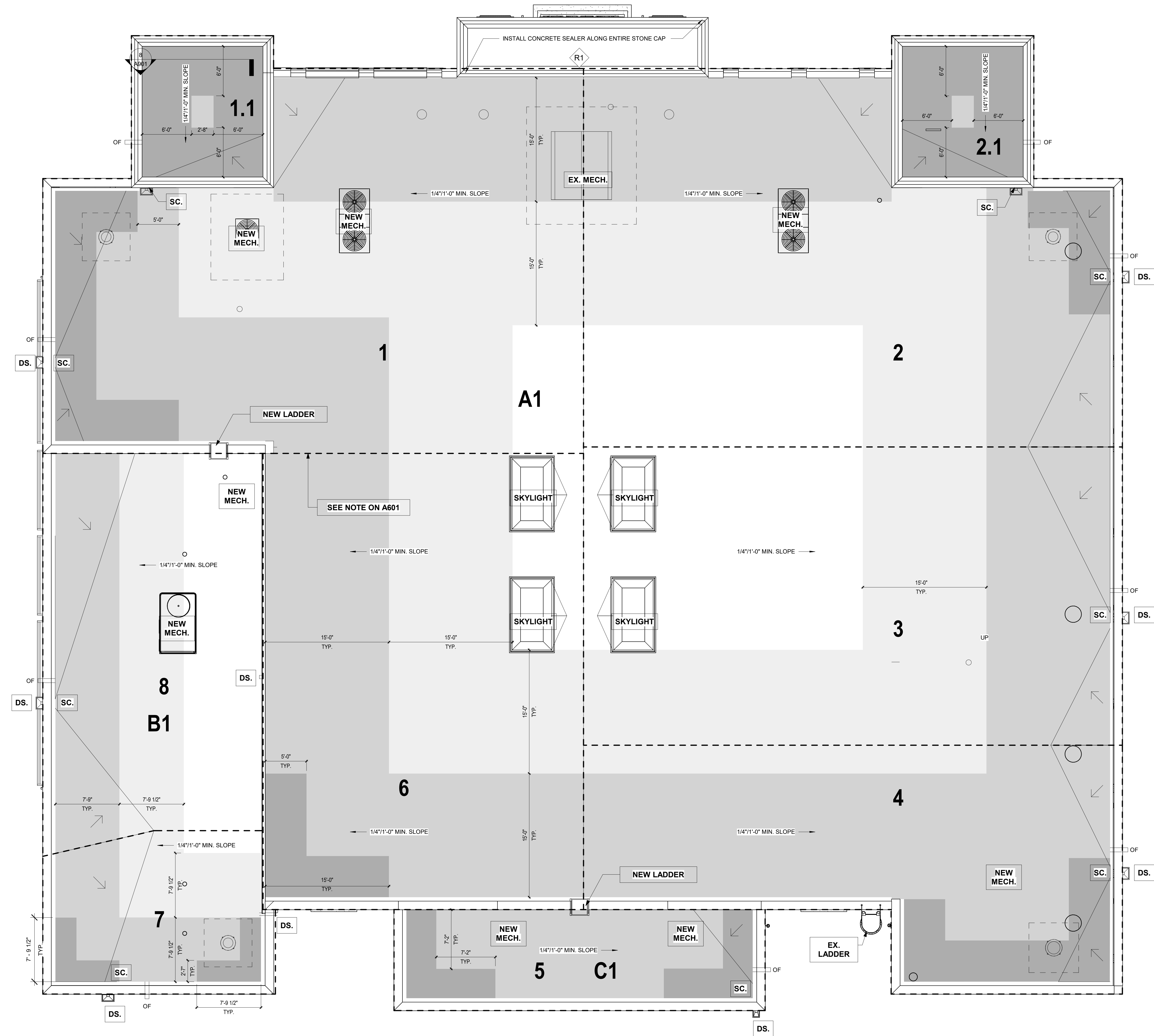
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ISSUE: CONSTRUCTION DOCUMENTS
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PROJECT NO: 23029
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ROOF PLAN

A601

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1 ROOF PLAN
3/16" = 1'-0"

DRAINAGE CALCULATIONS

ROOF BAY	WALL AREA (SQ FT)	TRIBUTARY AREA (SQ FT)	TOTAL AREA SERVED (SQ FT)	REQ'D GPM/ PROVIDED GPM	REQUIRED SCUPPER SIZE (in wide) HEIGHT = 4" MIN.
1.1	156.5	300	456.5	16.62 / 37.5	4.5 (NO CHANGE)
1	593.6	2987.4	3581	130.5 / 37.5	16
2.1	156.5	300	456.5	16.62 / 37.5	4.5 (NO CHANGE)
2	524.6	2926.3	3450.9	125.7 / 37.5	16
3	72.4	2365.9	2438.3	88.8 / 37.5	16
4	203.5	1584.5	1788	65.1 / 37.5	8
5	541.3	551.6	1092.9	39.8 / 37.5	8
6	78	2152	2230	*	*
7	109.25	544.8	654.05	26.8 / 37.5	4.5 (NO CHANGE)
8	859.5	2285.2	3144.7	114.5 / 37.5	16

*ROOF BAY 6 REQUIRES:
NEW GUTTER (4.5"W x 3.5"D)
NEW DOWNSPOUT (4" x 3.5")

NOTES:
A. FBC PLUMBING MAP 1106.1 - 3" RAINFALL PER HOUR
B. GPM = TOTAL AREA X 3.5 X 0.0104
C. FLOW RATES IN GPM PER INCHES OF HYDRAULIC HEAD AND WIDTH OF CHANNEL
SCUPPER (INTERPOLATED FROM ASCE 7-22 TABLE C8.2.3)
2" HYDRAULIC HEAD
4.5"W SCUPPER = 37.5 GPM
8"W SCUPPER = 66 GPM
16"W SCUPPER = 133.3 GPM

D. G.C. TO VERIFY EXISTING SCUPPER SIZE IN THE FIELD
E. EXISTING SCUPPER TO BE MADE LARGER IF EXISTING GPM IS NOT ADEQUATE
F. PER IPC (2021) - 1108.1 SECONDARY (EMERGENCY OVERFLOW) DRAINS OR SCUPPERS
WHERE ROOF DRAINS ARE REQUIRED, SECONDARY (EMERGENCY OVERFLOW) ROOF
DRAINS OR SCUPPERS SHALL BE PROVIDED WHERE THE ROOF PERIMETER
CONSTRUCTION EXTENDS ABOVE THE ROOF IN SUCH A MANNER THAT WATER WILL
BE ENTRAPPED IF THE PRIMARY DRAINS ALLOW BUILDUP FOR ANY REASON.
F.1 REQUIRED FLOW RATE FOR OVERFLOWS IS AS LISTED FOR EACH
BAY IN TABLE ABOVE (REQ'D GPM)
REQUIRED OVERFLOW PIPE DIAMETER PER IPC (2021) TABLE 1106.2
4" DIA DRAIN SLOPED AT 1/4" PER FOOT: 163 GPM

WIND UP-LIFT PLAN

DESIGN STANDARD:	ASCE 7-16			
EXPOSURE CATEGORY:	B			
RISK CATEGORY:	III			
SAFETY FACTOR:	2.0			
	A1	B1	C1	1.1/2.1
 ZONE 1'	23.3 PSF	26.2 PSF	NA	NA
 ZONE 1:	40.5 PSF	45.5 PSF	NA	NA
 ZONE 2:	53.4 PSF	60.0 PSF	49.2 PSF	30.0 PSF
 ZONE 3:	72.7 PSF	81.7 PSF	67.0 PSF	40.9 PSF
THIS WIND UP LIFT DESIGN HAS BEEN PROVIDED USING https://roofwinddesigner.nrcanet.net/ AS A GENERAL GUIDE.				

ROOF PLAN LEGEND

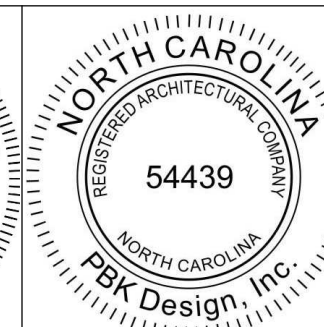
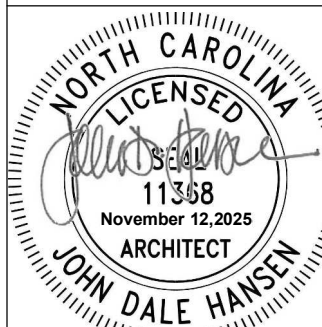
DS.	DOWNSPOUT
SC.	SCUPPER
SKYLIGHT	SKYLIGHT
MECH.	MECHANICAL EQUIPMENT. REF. MECH. DRAWINGS
— SLOPE	EXISTING ROOF SLOPE

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DATE: 11/12/2025
PROJECT NO: 23029
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WIND-UP LIFT &
DRAINAGE PLAN

A602

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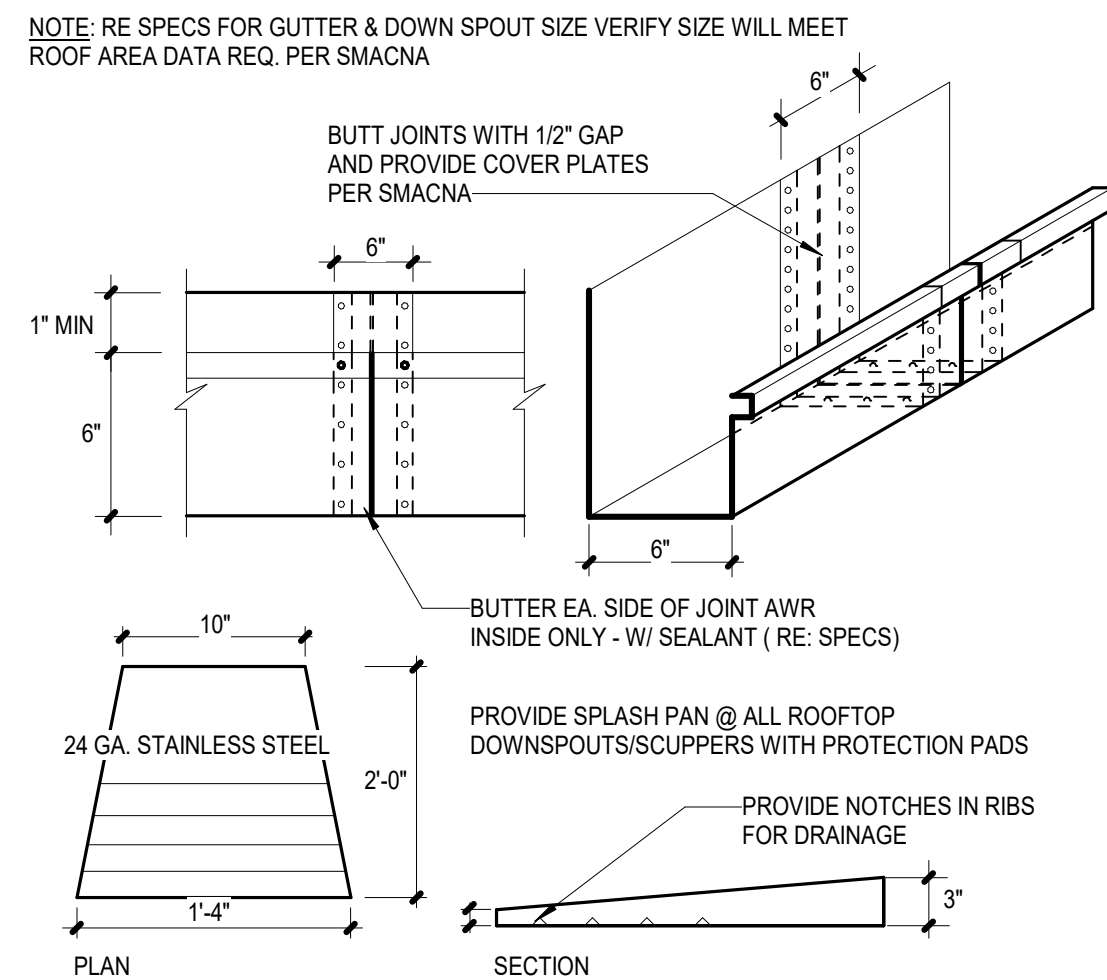
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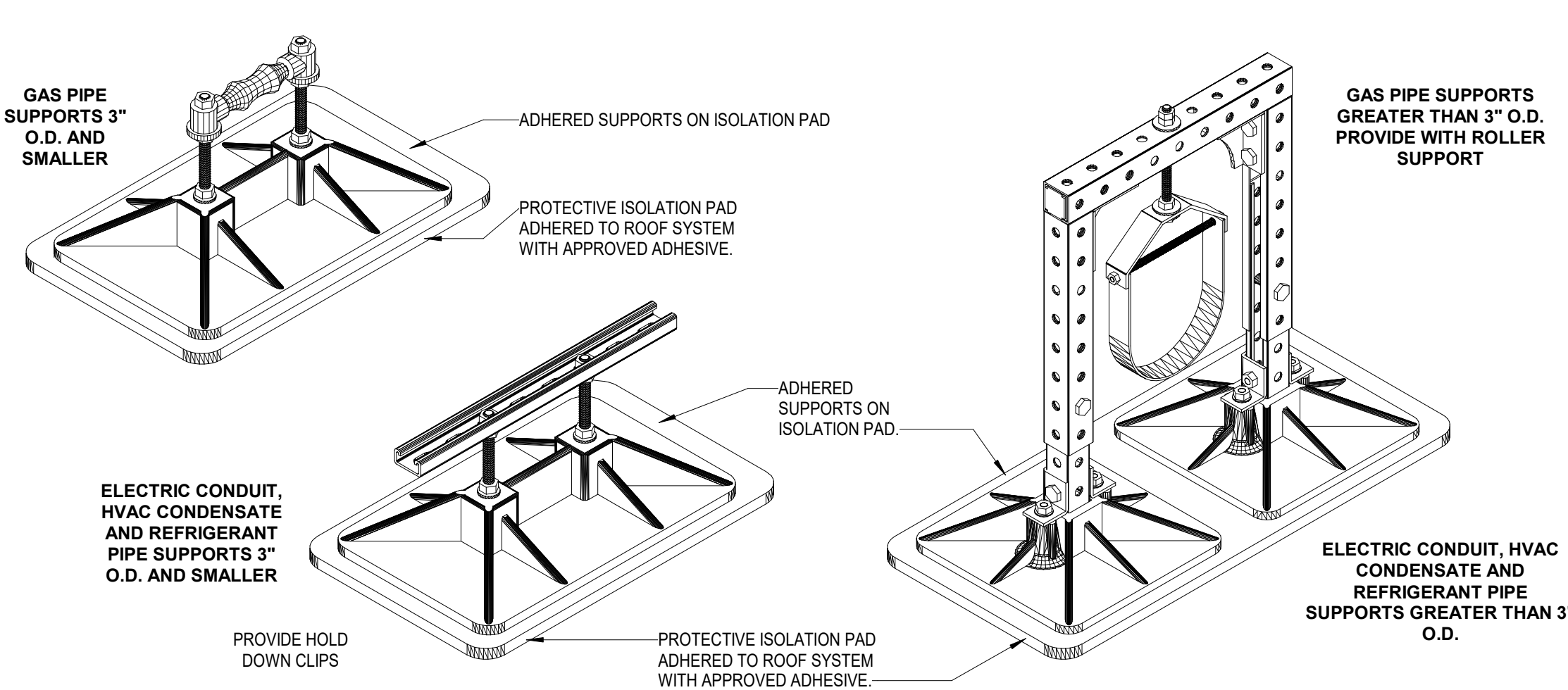
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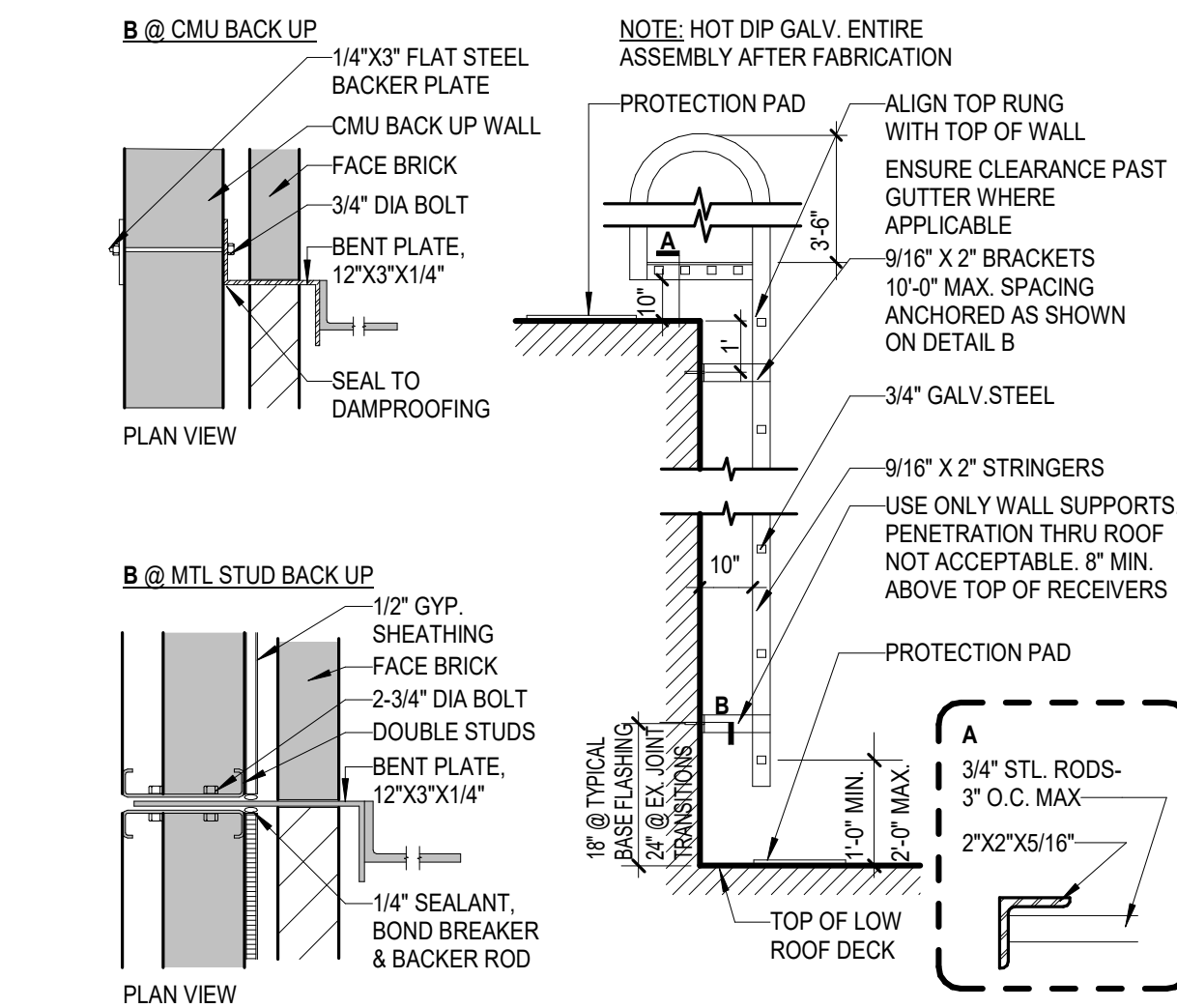
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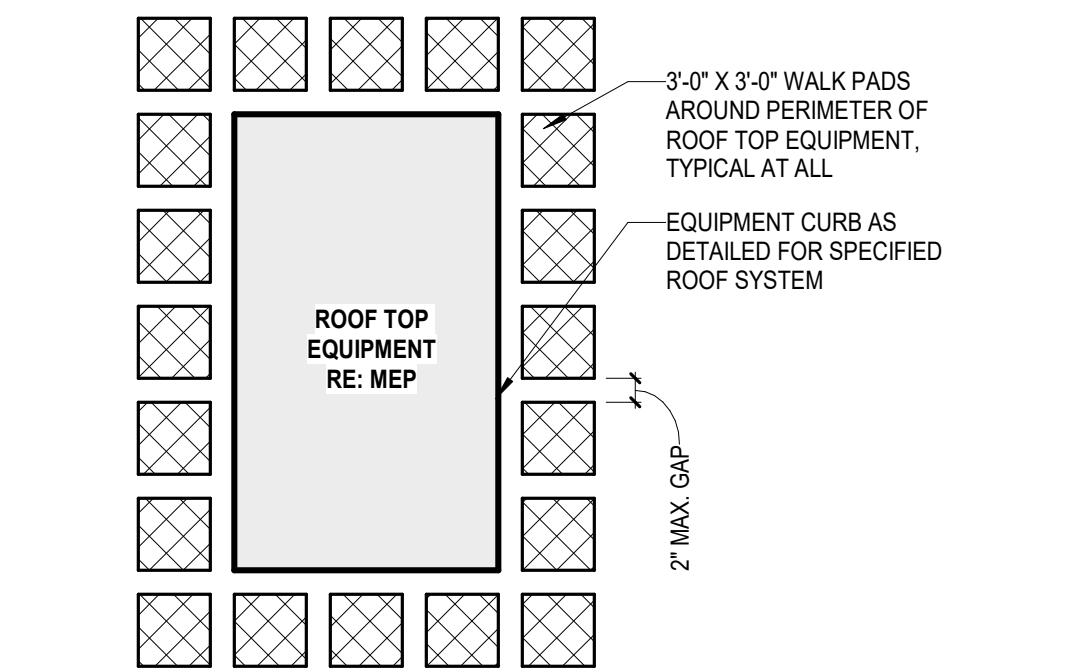
18 GUTTER JOINT AND SPLASH PANS
A610 1 1/2" = 1'-0"



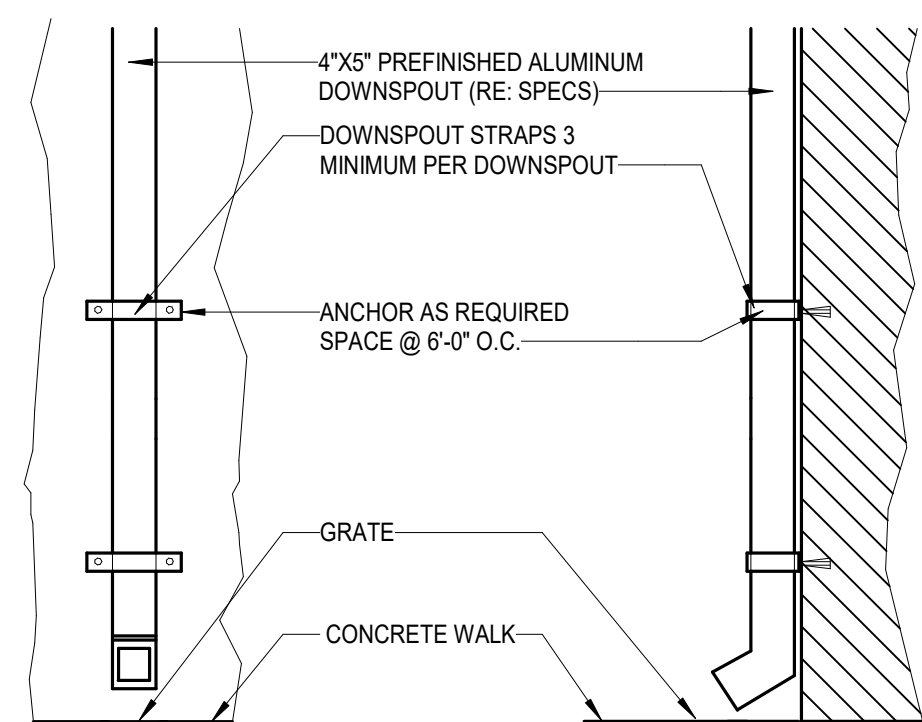
17 ROOFING - PIPE SUPPORTS
A610 1 1/2" = 1'-0"



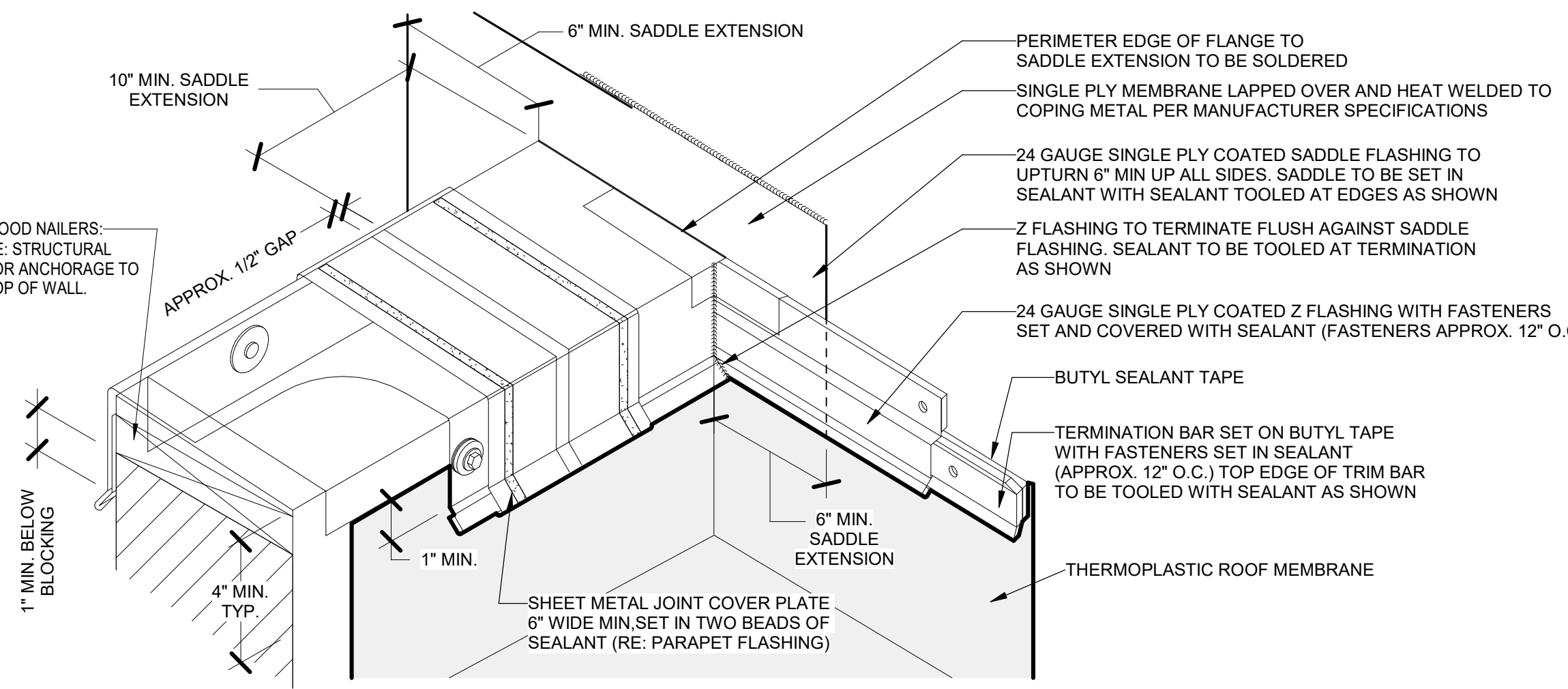
16 ROOFING - ROOF LADDER
A610 1 1/2" = 1'-0"



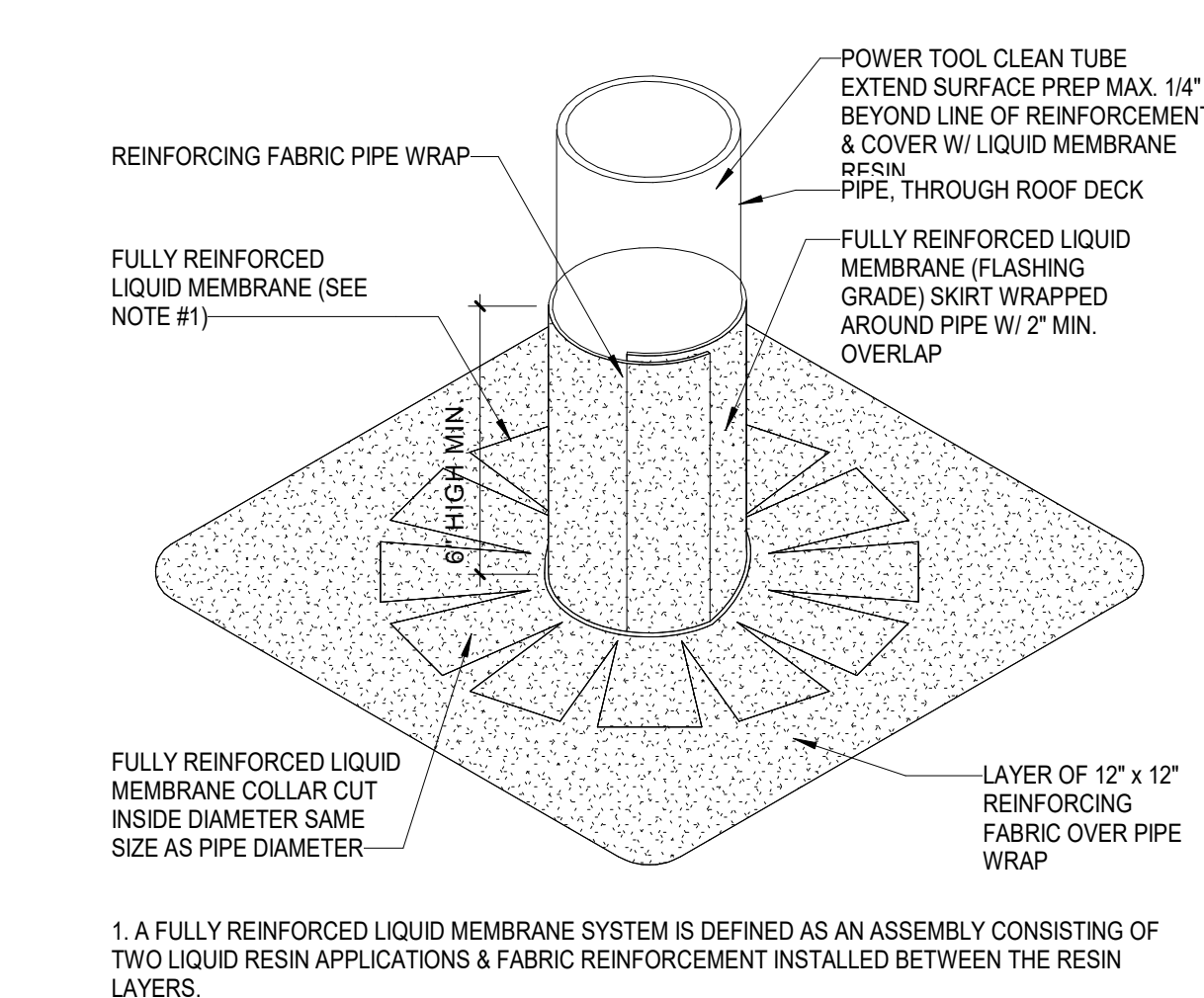
15 ROOFING - WALK PADS
A610 1 1/2" = 1'-0"



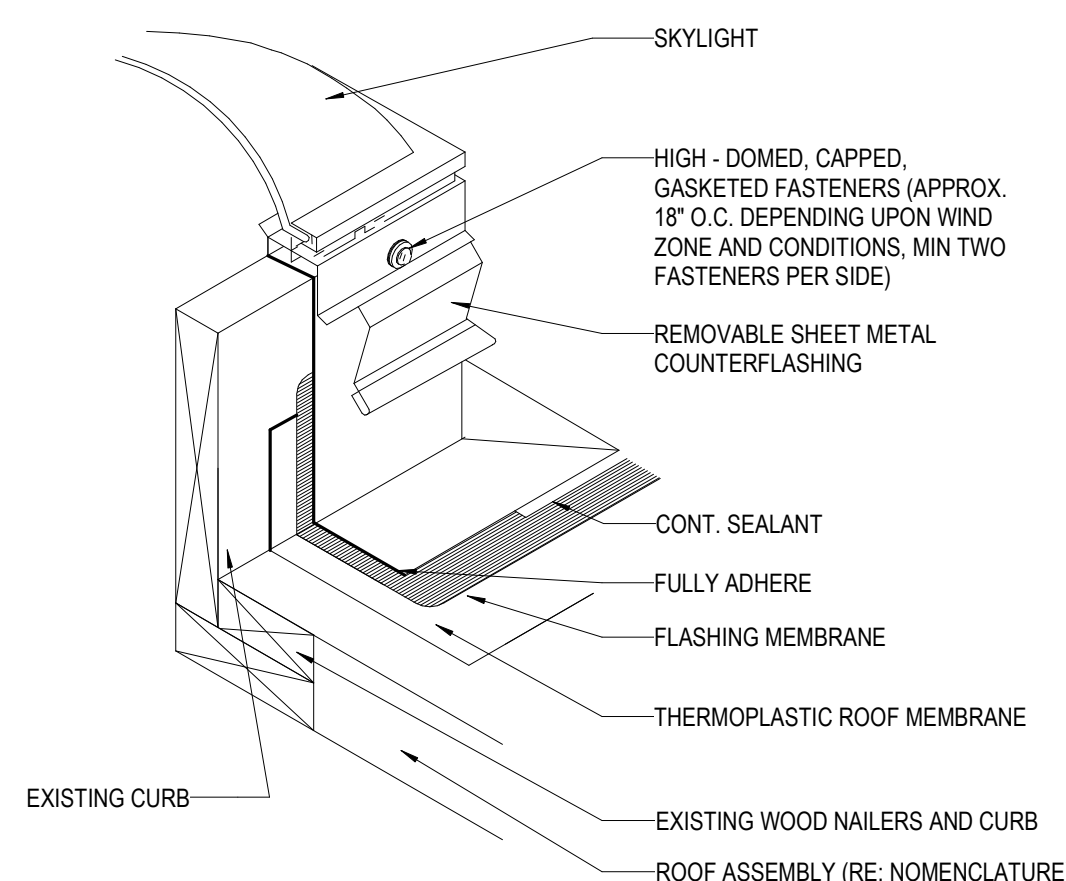
14 ROOFING - DOWNSPOUT
A610 1 1/2" = 1'-0"



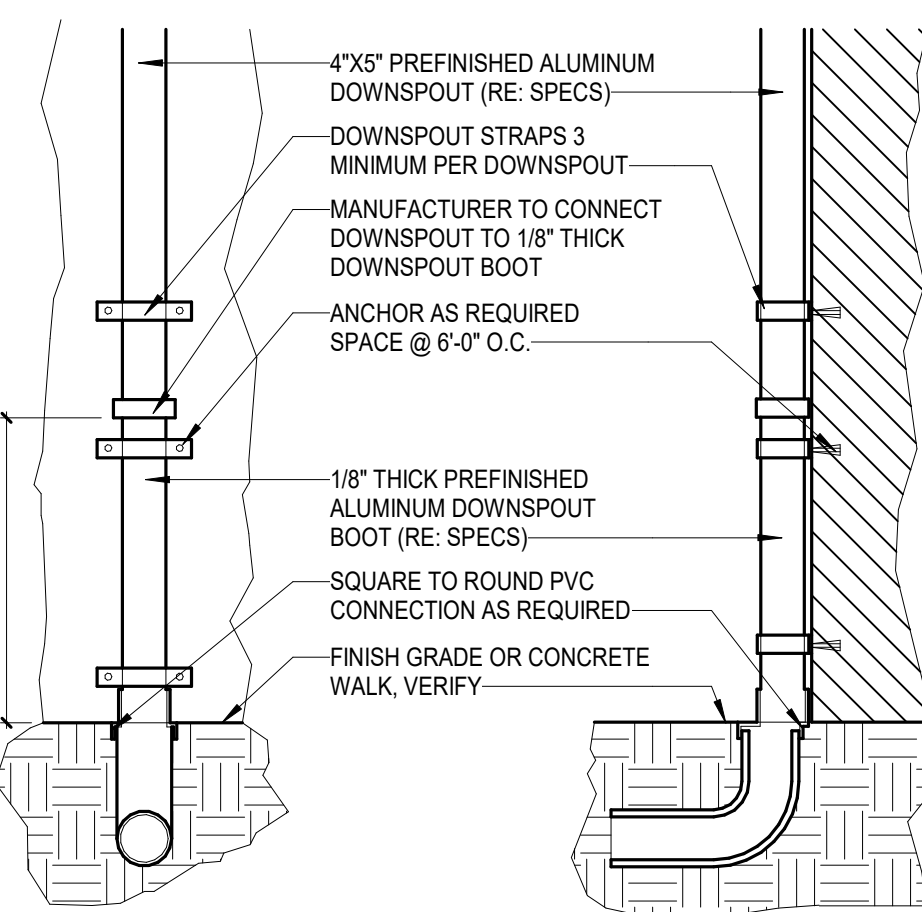
13 ROOFING (TP) - SADDLE FLASHING
A610 1 1/2" = 1'-0"



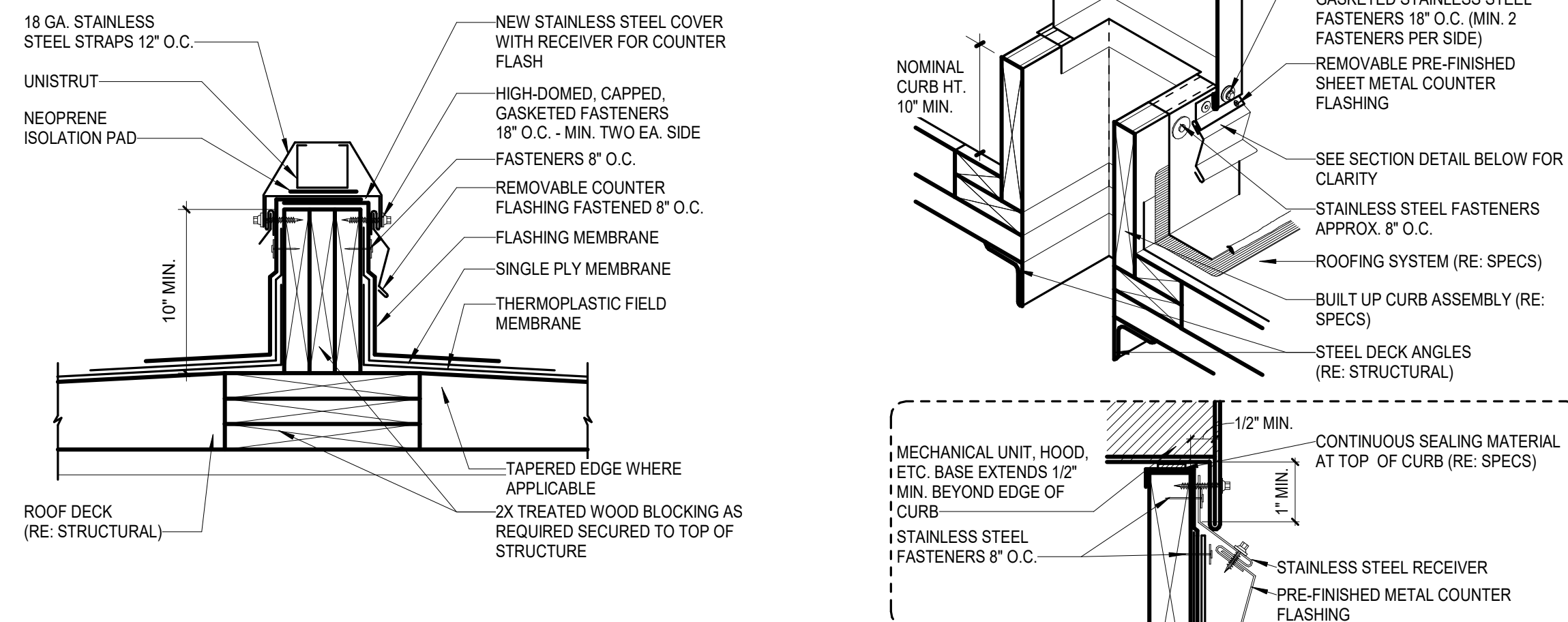
12 ROOFING (TP) - PIPE PENETRATION
A610 1 1/2" = 1'-0"



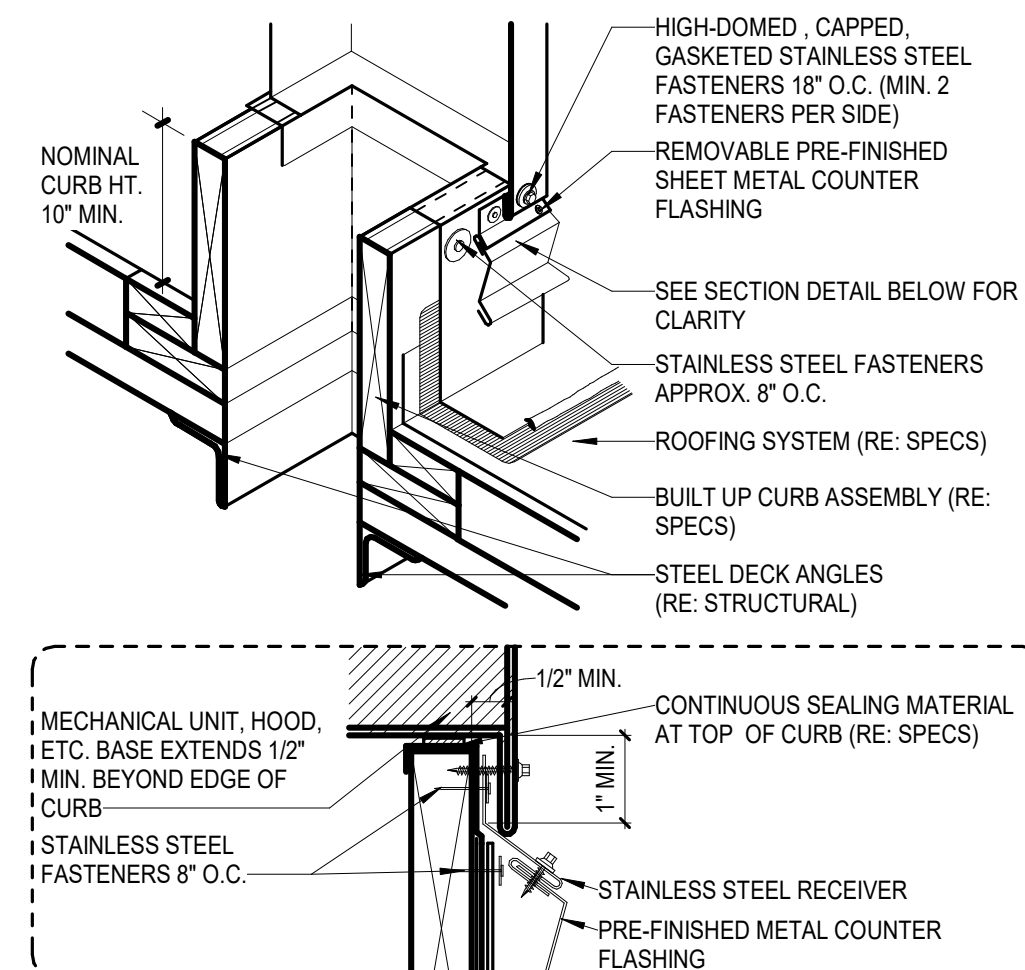
11 SKYLIGHT CURB
A610 12" = 1'-0"



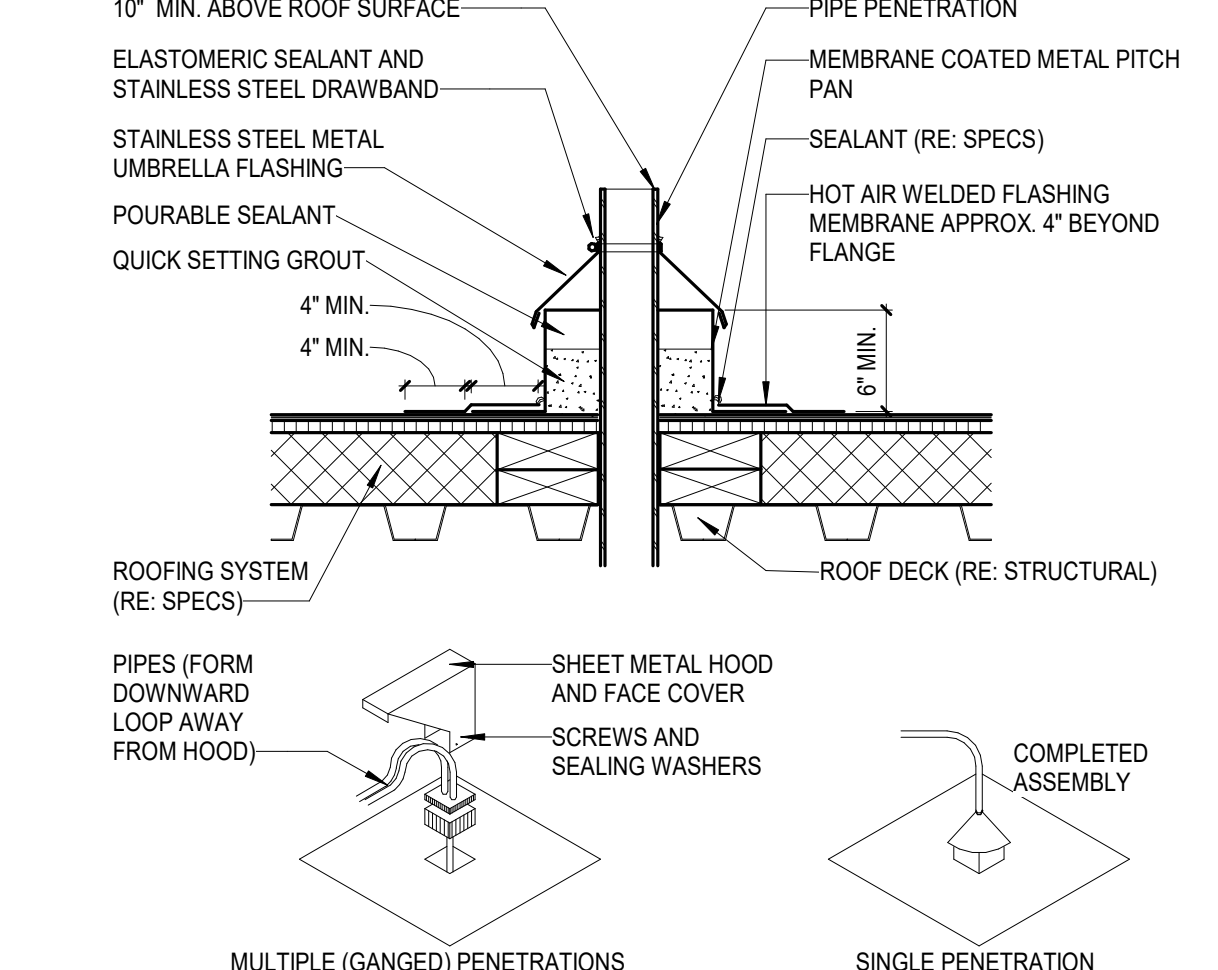
10 ROOFING - DOWNSPOUT TO BOOT
A610 1 1/2" = 1'-0"



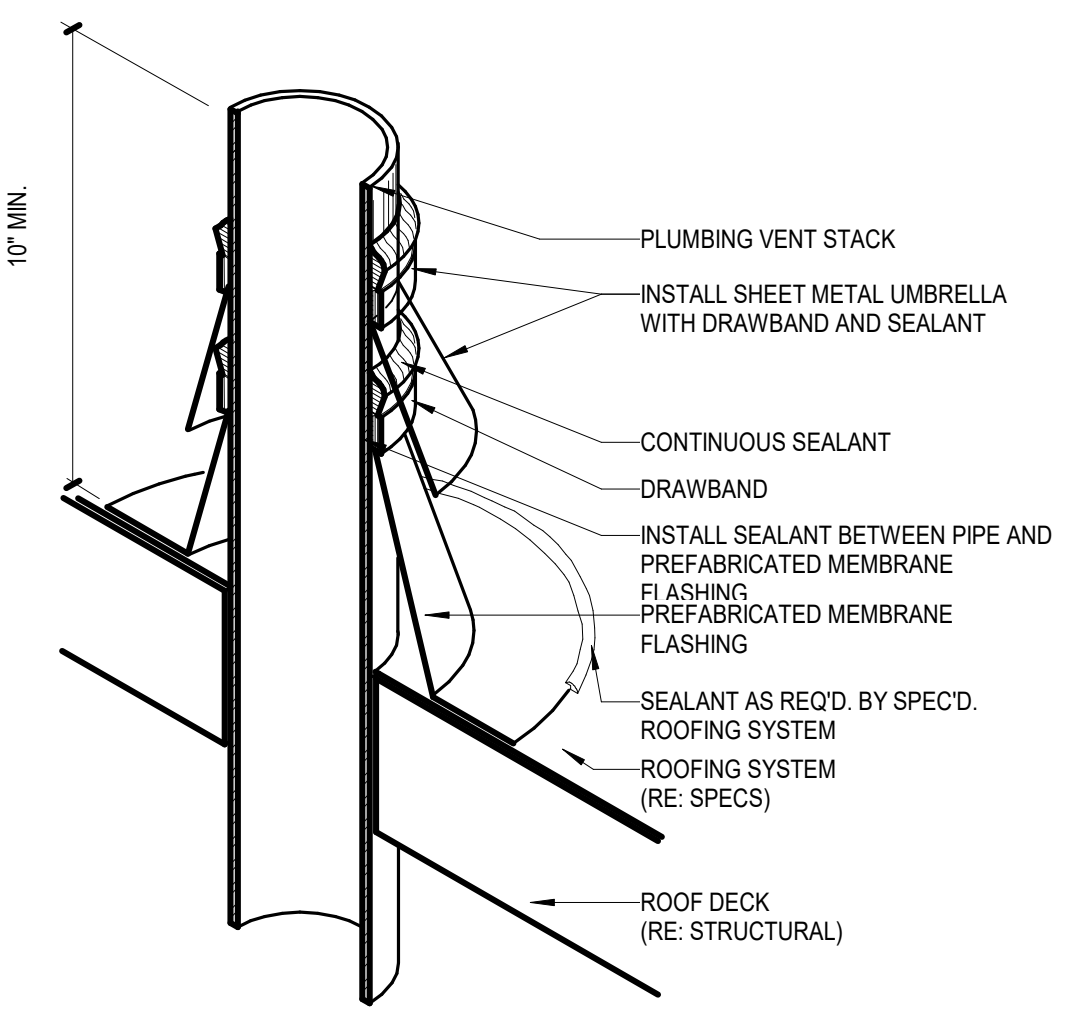
9 ROOFING (TP) - EQUIP. SUPPORT
A610 1 1/2" = 1'-0"



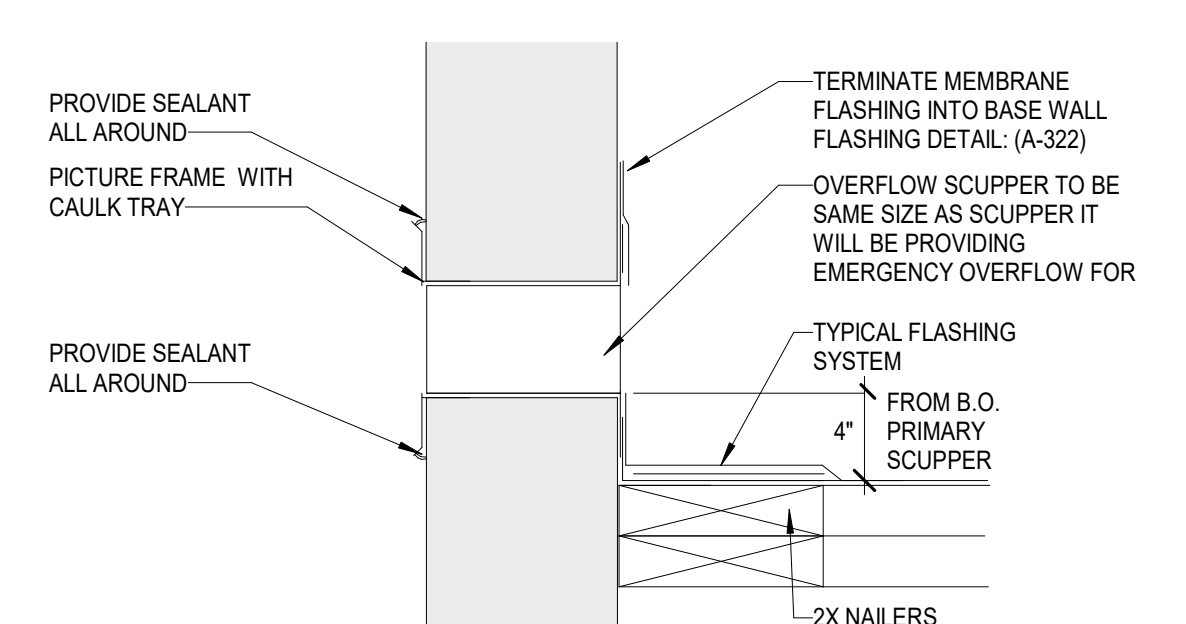
8 ROOFING (TP) - EQUIP. CURB
A610 1 1/2" = 1'-0"



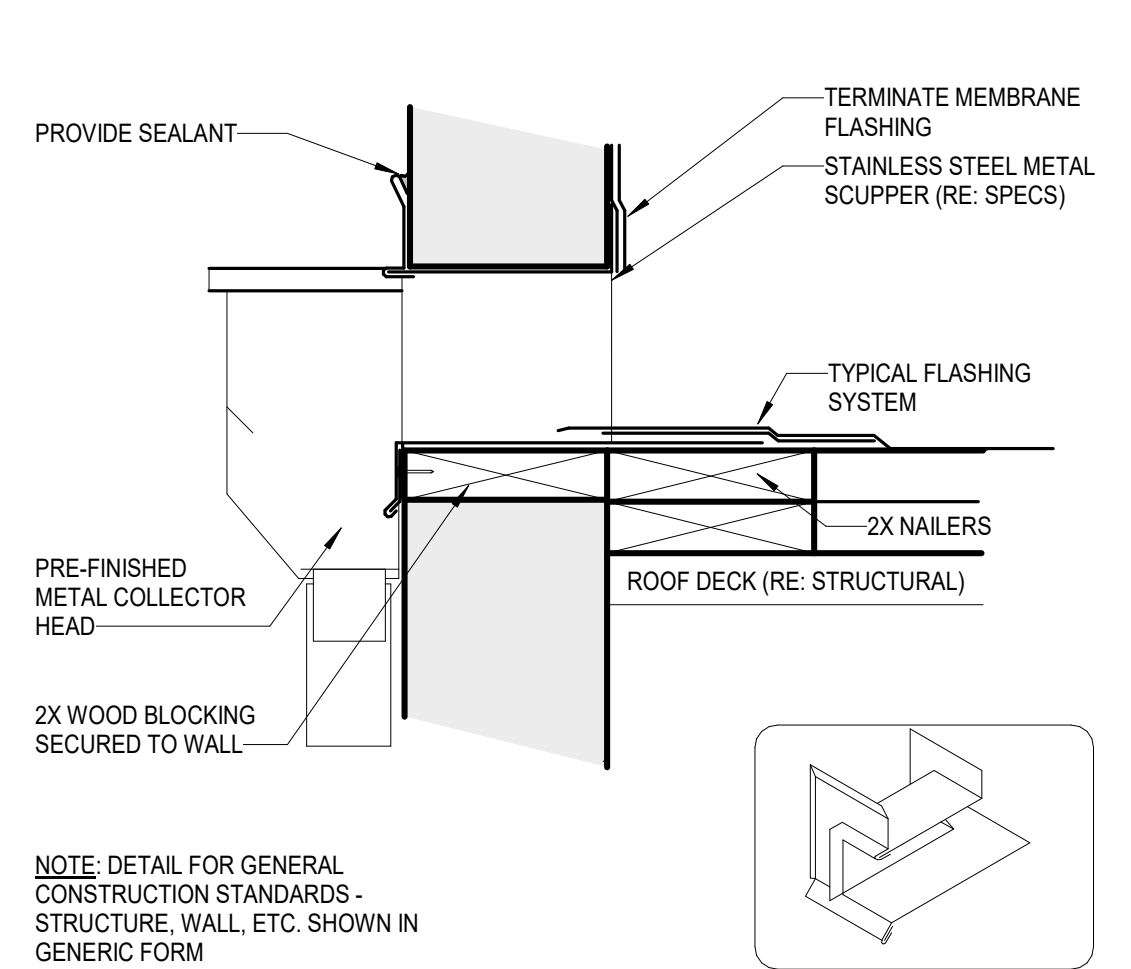
7 ROOFING (TP) - PITCH PAN
A610 1 1/2" = 1'-0"



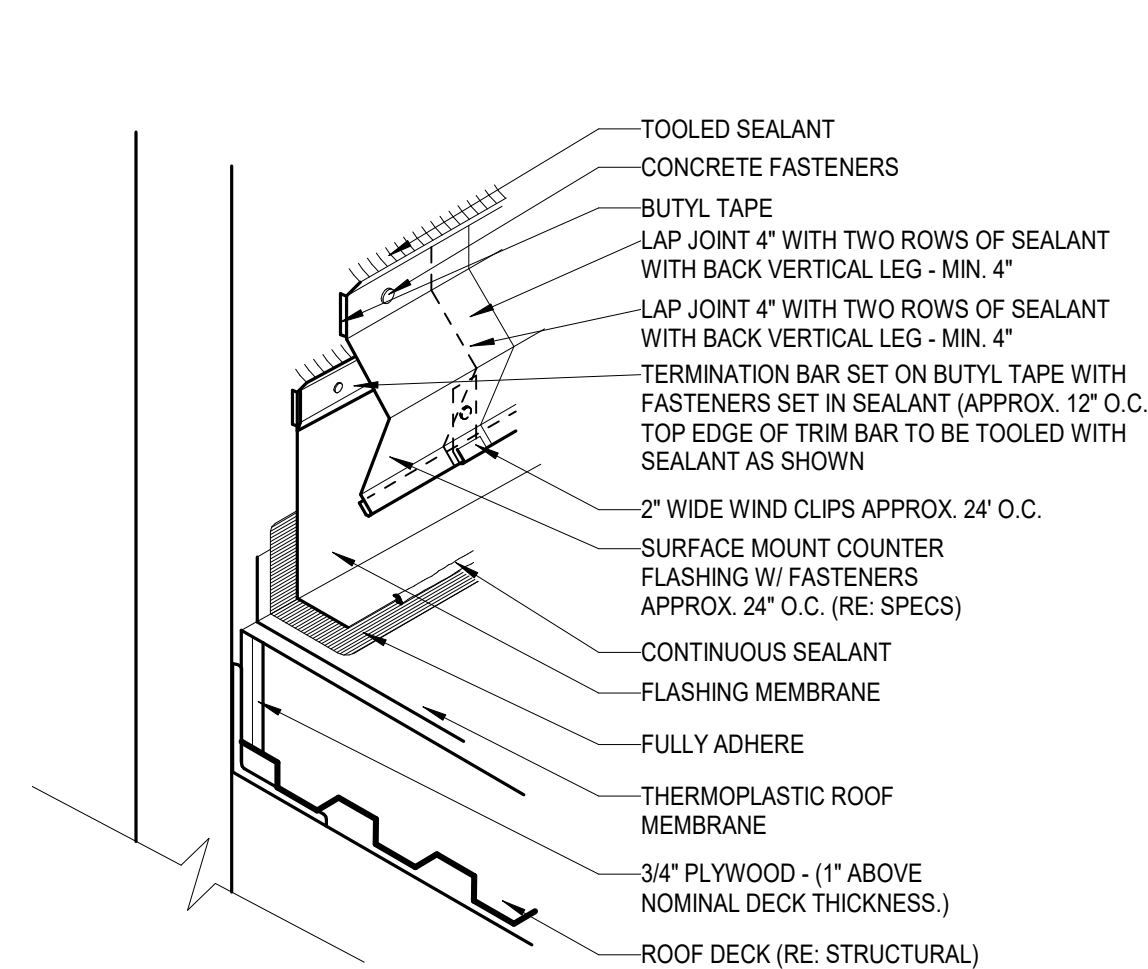
6 ROOFING (TP) - PLUMBING VENT
A610 1 1/2" = 1'-0"



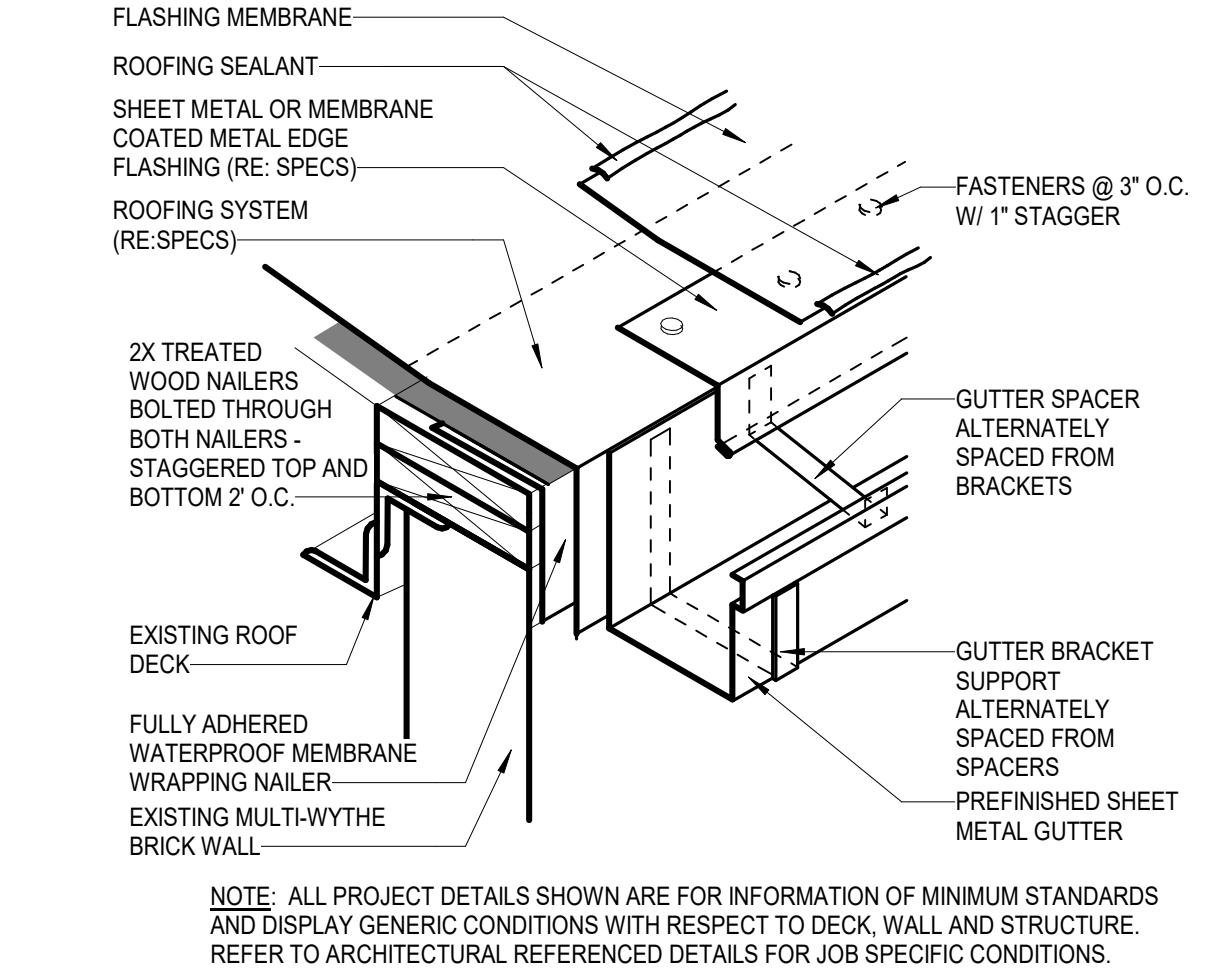
5 OVERFLOW SCUPPER
A610 12" = 1'-0"



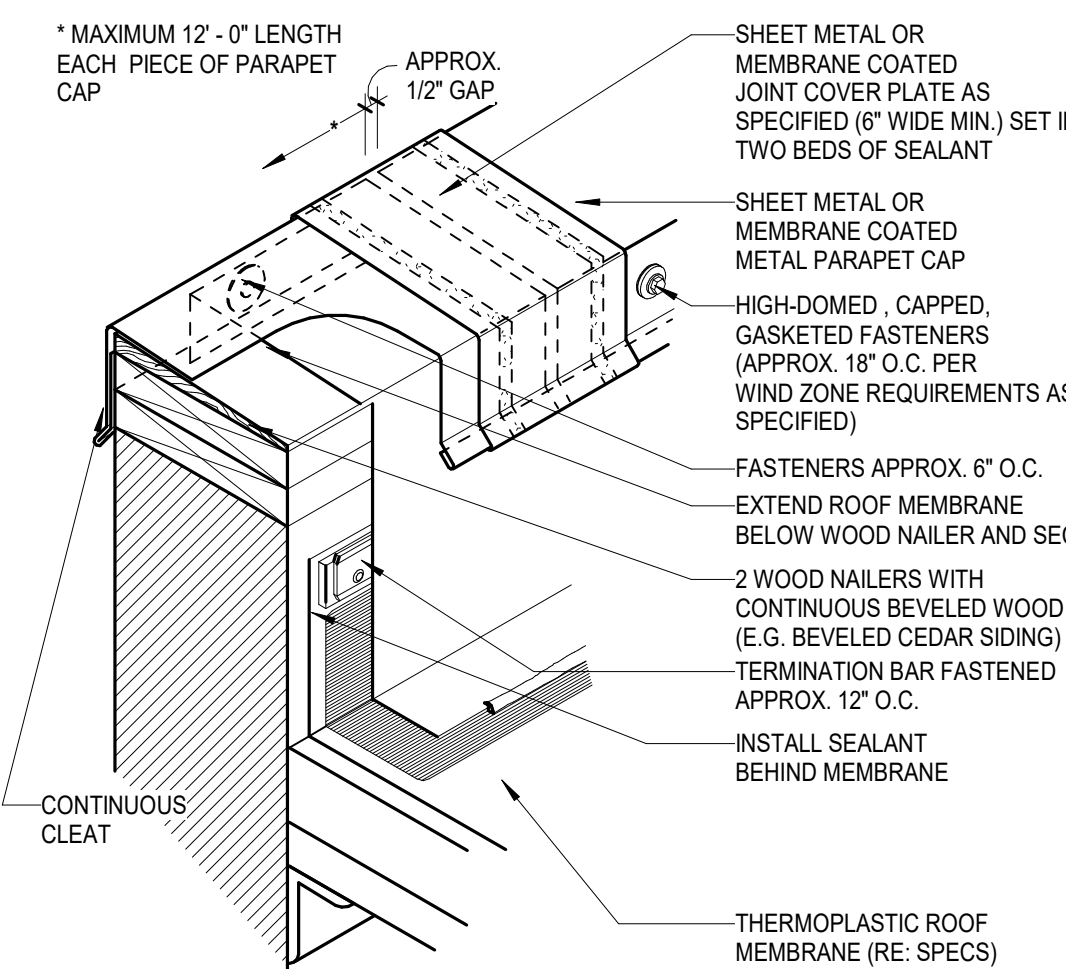
4 ROOFING - THRU-WALL SCUPPER
A610 1 1/2" = 1'-0"



3 ROOFING (TP) - SURFACE MOUNT
A610 1 1/2" = 1'-0"



2 ROOFING (TP) - ROOF EDGE GUTTER
A610 1 1/2" = 1'-0"



1 ROOFING (TP) - PARAPET
A610 1 1/2" = 1'-0"

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Room Finish Schedule					
Number	Name	Floor Type	Base Finish	Wall Finish	Comments
100	NORTH ENTRY	EM-1	RES-1	GWB/P-1	
100A	STORAGE	CONC/P	RES-1	BRICK/P-1	
100B	STORAGE	CONC/P	RES-1	BRICK/P-1	
101	LOBBY	SPORTS-1	RES-1	BRICK/P-1	
102A	RECEPTION	SPORTS-1	RES-1	BRICK/P-1	
104	MECHANICAL / UTILITY	CONC/S	RES-1	BRICK/P-1	
105	GYMNASIUM	SPORTS-1	RES-1	BRICK EXPOSED, BRICK/P-1, 5, CMU/P-1	SEE INTERIOR ELEVATIONS
106	OFFICE	CONC/P	RES-1	BRICK/P-1, CMU/P-1	
106A	LADDER	CONC/P	RES-1	BRICK/P-1, CMU/P-1	
107	JANITOR	PP-1	PP BASE-1	BRICK/P-1, CMU/P-1	
108	UNISEX	PP-1	PP BASE-1	BRICK/P-1, CWT-1	
109	UNISEX	PP-1	PP BASE-1	BRICK/P-1, CWT-1	
110	UNISEX	PP-1	PP BASE-1	BRICK/P-1, CWT-1	
112	MULTI-PURPOSE ROOM	PP-1, 2	PP BASE-1	BRICK/P-1	SEE INTERIOR FINISH PLAN FOR FLOORING LAYOUT.
113	HALL	PP-1	PP BASE-1	BRICK/P-1, CMU/P-1	
114	CLOSET	PP-1	PP BASE-1	CMU/P-1	
115	WARMING KITCHEN	QT-1	QT BASE-1	BRICK/P-1, CMU/P-1	
116	PANTRY	QT-1	QT BASE-1	BRICK/P-1, CMU/P-1	
119	TEAM ROOM	SPORTS-1	RES-1	BRICK/P-1, CMU/P-1	
120	TEAM ROOM	SPORTS-1	RES-1	BRICK/P-1, CMU/P-1	
121	WOMENS	PP-1	PP BASE-1	BRICK/P-1, CMU/P-1	
122	MENS	PP-1	--	BRICK/P-1, CMU/P-1	
123	E. ENTRY VEST.	PP-1	PP BASE-1	BRICK/P-1, CMU/P-1	
123A	CLOSET	CONC/S	RES-1	BRICK/P-1, CMU/P-1	
124	STORAGE	CONC/S	RES-1	BRICK/P-1, CMU/P-1	
125	STORAGE	EXIST.	RES-1	BRICK/P-1, CMU/P-1	
200	OPEN	EXIST.	RES-1	BRICK/P-1, CMU/P-1	
201	MECHANICAL ROOM	EXIST.	EXIST.	EXIST.	PAINT WALL REPAIRS TO MATCH EXISTING
202	MECHANICAL ROOM	EXIST.	EXIST.	EXIST.	PAINT WALL REPAIRS TO MATCH EXISTING
203A	CLOSET	EXIST.	RES-1	EXIST.	PAINT WALL REPAIRS TO MATCH EXISTING
203B	CLOSET	EXIST.	RES-1	EXIST.	PAINT WALL REPAIRS TO MATCH EXISTING
204	ELEC.	EXIST.	RES-1	GWB/P-1, BRICK/P-1	
205	OPEN	EXIST.	RES-1	GWB/P-1, EX. BRICK	
206	STORAGE	EXIST.	RES-1	GWB/P-EXIST.	PAINT NEW & PATCHED WALLS TO MATCH EXISTING
207	UNOCCUPIED	EXIST.	RES-1	BRICK/P-1	PAINT PATCHED WALL. REPAIRS TO MATCH EXISTING
208	UNOCCUPIED	EXIST.	RES-1	GWB/EXIST, EX. BRICK	PAINT PATCHED WALLS TO MATCH EXISTING
210	STORAGE	PP-1	RES-1	BRICK/EXIST, GWB/ P-EXISTING	PAINT NEW & PATCHED WALLS TO MATCH EXISTING
S1	STAIR	CONC/S	RES-1	BRICK/P-1, CMU/P-1	
S1	STAIR	EXIST.	RES-1	BRICK/P-1, GWB/P-1	

FINISH PLAN LEGEND

FLOORING	BASE	WALLS	PLASTIC LAMINATE
EM-1 MFR: TARKETT STYLE: ABRASIVE ACTION II COLOR: WINTER GRAY SIZE: 24" X 24" INSTALL: MONOLITHIC PP-1 MFR: CROSSVILLE STYLE: OWEN STONE COLOR: DOWN SIZE: 12" X 24" FINISH: LTR THICKNESS: 9.5MM GROUT JOINT: 3MM EPOXY GROUT: MAPEI GRAY INSTALL: GRID - SEE FINISH PLAN FOR PATTERN *USE SCHLUTER COVE TRIM WHERE PP FLOOR TILE MEETS CWT PP-2 MFR: CROSSVILLE STYLE: OWEN STONE COLOR: SABLE SIZE: 12" X 24" FINISH: LTR THICKNESS: 9.5MM GROUT JOINT: 3MM EPOXY GROUT: MAPEI GRAY INSTALL: GRID - SEE FINISH PLAN FOR PATTERN QT-1 MFR: DAL TILE STYLE: QUARRY TEXTURES - SMOOTH SURFACE COLOR: ASHEN GRAY SIZE: 6" X 6" THICKNESS: 1/2" GROUT JOINT: 3/8" EPOXY GROUT: MAPEI DRIFTWOOD INSTALL: GRID SPORTS-1 (GYMNASIUM) MFR: TARKETT SERIES: POLYTURF PLUS PAD AND POUR 7+2 WITH TARKOLAY COLOR: DESERT 1200-0015 THICKNESS: 9MM BASKETBALL LINES: BLACK 0091 VOLLEYBALL LINES: GREEN 0113 PICKLEBALL LINES: WHITE 0090 *SEE FINISH PLAN FOR GAME LINE COLOR PLACEMENT CONC/S TEXTURE: SMOOTH SEALER: POLYAMIDE EPOXY, CLEAR FINISH: LOW GLOSS *CLEAN, PREP, REPAIR AND PROTECT EXISTING SLAB AS NEEDED CONC/P TEXTURE: EXISTING PAINT: TBD SEALER: WATER BASED FINISH: LOW GLOSS *CLEAN, PREP, REPAIR AND PROTECT EXISTING SLAB AS NEEDED	RES-1 MFR: TARKETT STYLE: VENTED COVE COLOR: BLACK SIZE: 4" H *PRE-FORMED CORNERS PP-1 BASE MFR: CROSSVILLE STYLE: OWEN STONE COVE COLOR: SABLE SIZE: 6" X 12" GROUT JOINT: 3MM EPOXY GROUT: MAPEI GRAY QT-1 BASE MFR: DAL TILE STYLE: QUARRY TEXTURES COVE COLOR: ASHEN GRAY SIZE: 6" X 6" GROUT JOINT: 3/8" EPOXY GROUT: MAPEI DRIFTWOOD	P-1 (FIELD) MFR: SHERWIN WILLIAMS COLOR: DRIFT OF MIST SW 238-C2 FINISH: VARIES P-2 (EXPOSED TRUSSES, MECHANICAL SYSTEMS, RAILINGS AND EXPOSED LEDGES) MFR: SHERWIN WILLIAMS COLOR: IRON ORE SW 251-C7 FINISH: FLAT P-3 (GWB CEILINGS/SOFFITS) MFR: SHERWIN WILLIAMS COLOR: EXTRA WHITE SW 257-C1 FINISH: FLAT P-4 (GYMNASIUM EXPOSED DECKING, EXPOSED FIRE PROTECTION AND CONDUIT) MFR: SHERWIN WILLIAMS COLOR: ROOKWOOD CLAY SW 2823 FINISH: FLAT P-5 (HM DOORS & FRAMES, GYMNASIUM ACCENT) MFR: SHERWIN WILLIAMS COLOR: ANONYMOUS SW 245-C5 FINISH: SEMI-GLOSS CWT-1 (TOILETS 108, 109, 110) MFR: DAL TILE STYLE: COLOR WHEEL LINEAR COLOR: ARTIC WHITE SEMI GLOSS SIZE: 4" X 12" THICKNESS: 5/16" GROUT JOINT: 1/16" INSTALL: VERTICAL GRID EPOXY GROUT: MAPEI AVALANCHE *USE SCHLUTER QUARTER ROUND TRIM AT ALL OUTSIDE CORNERS *USE SCHLUTER COVE TRIM WHERE PP FLOOR TILE MEETS CWT *TILE EXTENDS FROM TOP OF PP FLOOR TO BOTTOM OF CEILING	PLAM-1 (CABINETS, SHELVES & SKIRTS) MFR: EGGER PATTERN: PARONA WALNUT FINISH: PREMIUM SOLID SURFACE SS-1 (COUNTER TOPS) MFR: CORIAN PATTERN: EVEREST FINISH: PREMIUM THICKNESS: 3/4" EDGE: EASED TOILET PARTITIONS PCS-1 MFR: ASI SERIES: INTEGRATED PRIVACY COLOR: SELECTED FROM MFR. FULL RANGE HARDWARE: STAINLESS WALL PADDING WP-1 (GYMNASIUM) MFR: PORTER ATHLETIC SERIES: CLASS A FLAME RETARDANT WALL PADS COLOR: SELECTED FROM MFR. FULL RANGE

FINISH ABBREVIATION LEGEND

CMU/P	CONCRETE MASONRY UNIT/PAINTED
CONC/P	PAINTED CONCRETE
CONC/S	SEALED CONCRETE
CWT	CERAMIC WALL TILE
EM	ENTRY MAT CARPET TILES
BRICK	BRICK
GWB/P	GYPSUM WALL BOARD/PAINT
PLAM-1	PLASTIC LAMINATE
PP	PORCELAIN PAVER
QT	QUARRY TILE
RES	RESILIENT
SPORTS	SPORTS FLOORING

FLOORING MATERIAL TRANSITIONS

CONC TO PP = SCHLUTER RENO RAMP
CONC TO SPORTS = METAL THRESHOLD
EM TO SPORTS = RUBBER TRANSITION STRIP
PP TO SPORTS = METAL THRESHOLD

INTERIOR FINISH NOTES

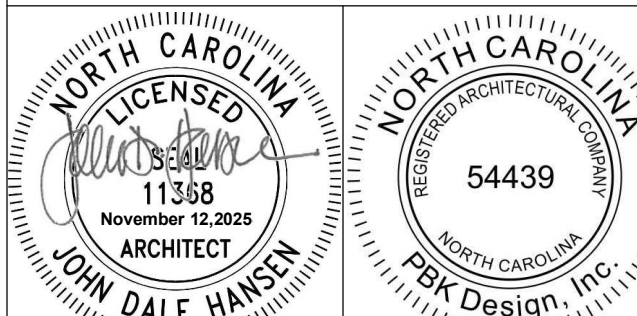
- ALL GYPSUM WALLS SCHEDULED TO BE PAINTED SHALL BE PAINTED P-1 EGGSHELL FINISH UNLESS NOTED OTHERWISE. SEE FINISH SCHEDULE AND PLANS FOR OTHER DESIGNATIONS.
- ALL CMU WALLS SHALL BE PAINTED P-1, SEMI-GLOSS FINISH UNLESS NOTED OTHERWISE. SEE FINISH SCHEDULE AND PLANS FOR OTHER DESIGNATIONS.
- ALL BRICK WALLS TO BE PAINTED, SHALL BE PAINTED P-1, FINISH SEMI-GLOSS UNLESS NOTED OTHERWISE.
- ALL EXPOSED LEDGES IN GYMNASIUM SCHEDULED TO BE PAINTED, SHALL BE PAINTED P-2, FINISH SEMI-GLOSS.
- ALL WALLS SCHEDULED TO BE PAINTED IN RESTROOMS SHALL BE EPOXY PAINT.
- ALL WALLS IN KITCHEN SHALL BE EPOXY PAINT.
- SEE FINISH PLANS AND FINISH SCHEDULE FOR ALL ACCENT PAINT LOCATIONS. ACCENT PAINT SHALL TERMINATE AT INSIDE CORNERS UNLESS NOTED OTHERWISE.
- ALL FREESTANDING COLUMNS IN A ROOM SHALL BE PAINTED TO MATCH OTHER WALLS IN ROOM UNLESS NOTED OTHERWISE.
- ALL HOLLOW METAL DOORS & FRAMES SCHEDULED TO BE PAINTED, SHALL BE PAINTED TO P-5, FINISH SEMI-GLOSS.
- ALL GYPSUM CEILINGS AND SOFFITS SHALL BE PAINTED P-3, FINISH FLAT, ON ALL FACES UNLESS NOTED OTHERWISE.
- ALL EXPOSED CEILING, EXPOSED FIRE PROTECTION AND CONDUIT IN GYMNASIUM SCHEDULED TO BE PAINTED, SHALL BE PAINTED P-4, FINISH FLAT.
- ALL EXPOSED TRUSSES AND MECHANICAL SYSTEMS IN GYMNASIUM SCHEDULED TO BE PAINTED, SHALL BE PAINTED P-2, FINISH FLAT.
- ALL METAL STAIR COMPONENTS AND RAILING SCHEDULED TO BE PAINTED SHALL BE PAINTED P-2, FINISH ALKYD ENAMEL.
- ALL MECHANICAL GRILLS SHALL BE PAINTED TO MATCH ADJACENT WALL, FINISH SEMI-GLOSS.
- PAINTING CONTRACTOR SHALL REVIEW THE SURFACES OF ALL MATERIALS THAT ARE INDICATED TO BE PAINTED AND SHALL BRING TO THE ATTENTION OF THE CONTRACTOR ANY SURFACES THAT ARE NOT ACCEPTABLE TO RECEIVE PAINT. WALL SURFACES THAT CONTAIN BLENISHES, CONCRETE SPATTERINGS, CAULKING DRIPS, PAINT RUNS, NAILS, SCREWS, UNEVEN FINISH SURFACES, ETC. SHALL BE CORRECTED PRIOR TO FINAL PAINT. FAILURE OF NOT CORRECTING THESE ITEMS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO CORRECT THIS WORK, EVEN AFTER FINAL PAINTING IS COMPLETED.
- REMOVE PAINT FROM ALL ITEMS NOT INTENDED TO BE PAINTED SUCH AS LIGHT SWITCH PLATES, ELECTRICAL RECEPTACLES, FIRE ALARM STROBES, LIGHT FIXTURES, SPEAKERS, DOOR HARDWARE, FLOOR TILES, WALL BASE, CEILING TILES, GRID, ETC.
- CERAMIC WALL TILE ON WALLS IN ALL RESTROOMS SHALL EXTEND FROM TOP OF FLOOR TO BOTTOM OF CEILING. SEE FINISH PLANS FOR LOCATIONS.
- SEE FINISH PLANS FOR FLOORING INSTALLATION PATTERNS.
- ALL RUBBER FLOORING TRANSITION STRIPS SHALL BE TARKETT, COLOR BLACK.
- FLOOR MATERIAL TRANSITIONS SHALL OCCUR UNDER THE CENTERLINE OF THE ROOM DOORS IN A CLOSED POSITION. SEE FINISH LEGEND FOR FLOOR TRANSITION DETAILS.
- TOILET PARTITIONS SHALL BE PCS-1.
- ALL SOLID SURFACE COUNTERTOPS SHALL BE SS-1.
- ALL LAMINATE CABINETS, SHELVES, SKIRTS, SUPPORTS, AND OPEN SHELVES SHALL BE PLAM-1.
- ALL ELECTRICAL RECEPTACLE PLATE COLORS SHALL BE STAINLESS WITH WHITE RECEPTACLES.
- IN AREAS REQUIRING NEW WORK AND PATCHING OF EXISTING FINISHES SHOWN ON THE FINISH PLANS SHALL BE VERIFIED BY THE CONTRACTOR AND ANY NOTED DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- SEE FINISH PLANS FOR ALL WP-1 LOCATIONS.
- ALL EXPOSED EXISTING UNPAINTED BRICK SHALL BE CLEANED.
- ALL PAINTED BRICK AS INDICATED ON ELEVATIONS SHALL HAVE PAINT REMOVED AND BRICK CLEANED PRIOR TO NEW PAINT BEING APPLIED.

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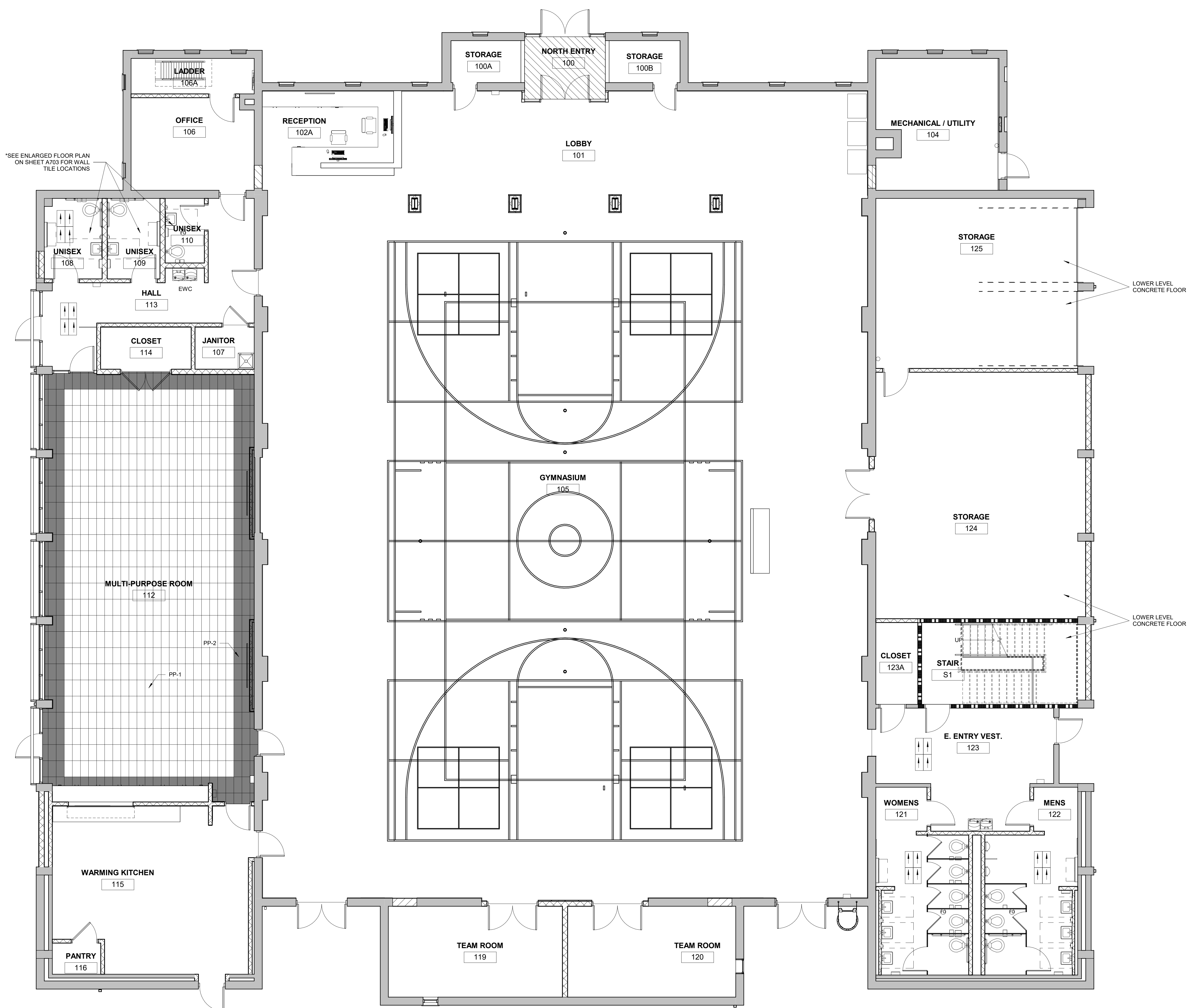
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ISSUE: CONSTRUCTION DOCUMENTS
DATE: 11/12/2025
PROJECT NO: 23029
DRAWN BY: MQS
CHECKED BY: JDH

FINISH SCHEDULE
LEGEND AND NOTES

A700



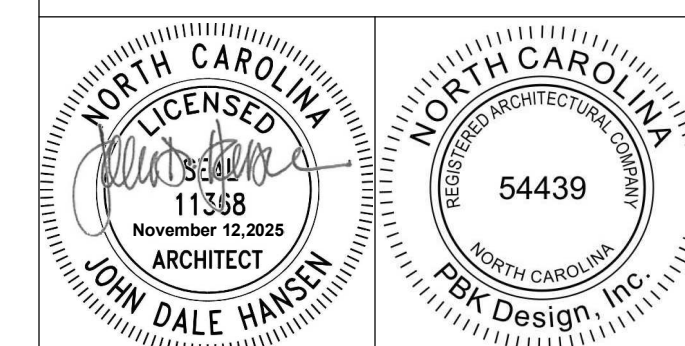
1
A701
MAIN LEVEL FINISH PLAN
3/16" = 1'-0"

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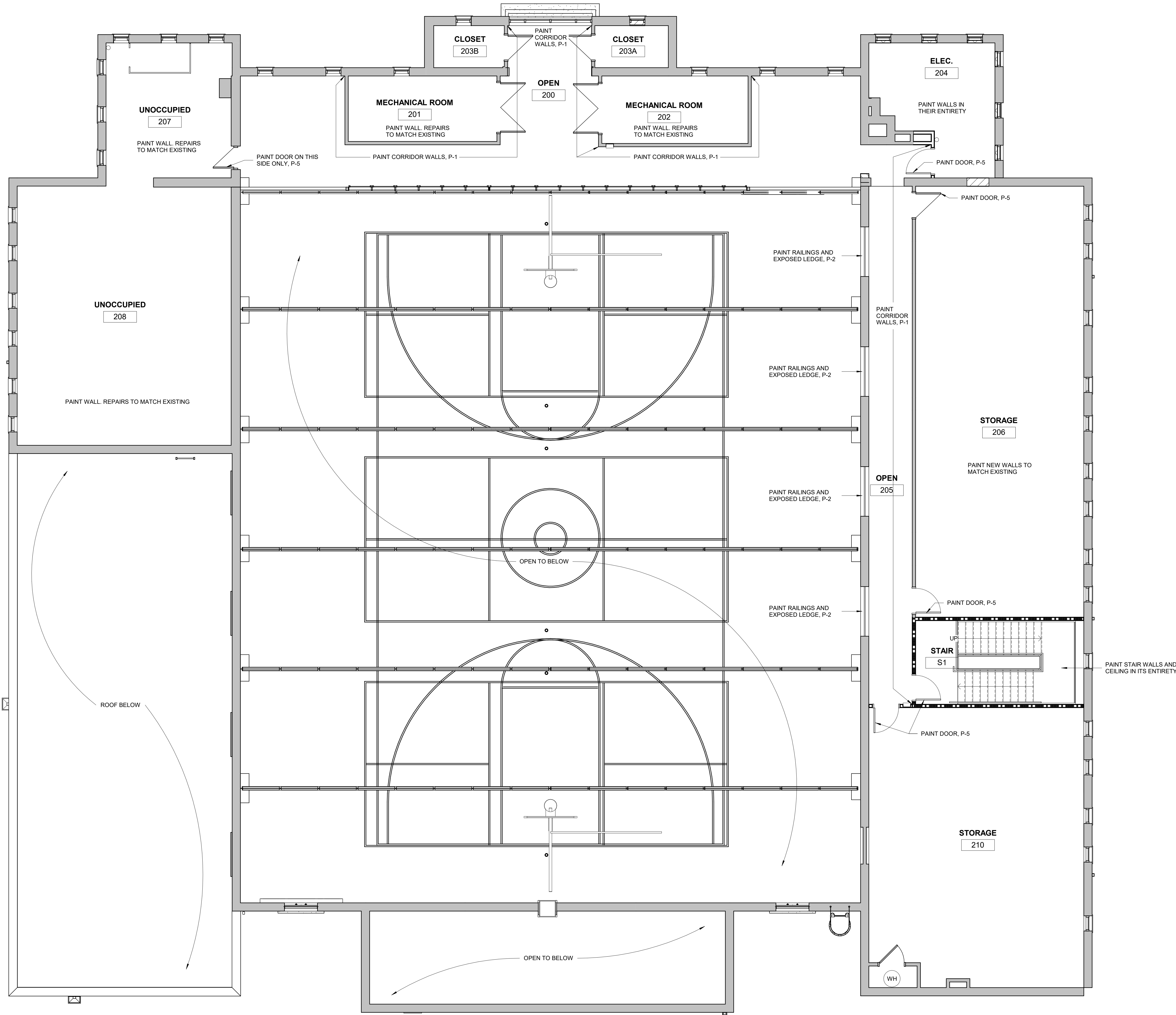
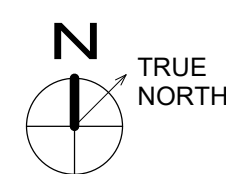
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PROJECT NO: 23029
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MAIN LEVEL FINISH PLAN

A701

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1 UPPER LEVEL FINISH PLAN
A702 3/16" = 1'-0"

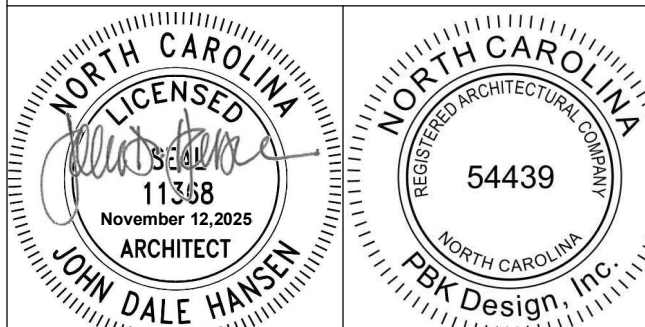


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UPPER LEVEL FINISH
PLAN

A702

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RENOVATION

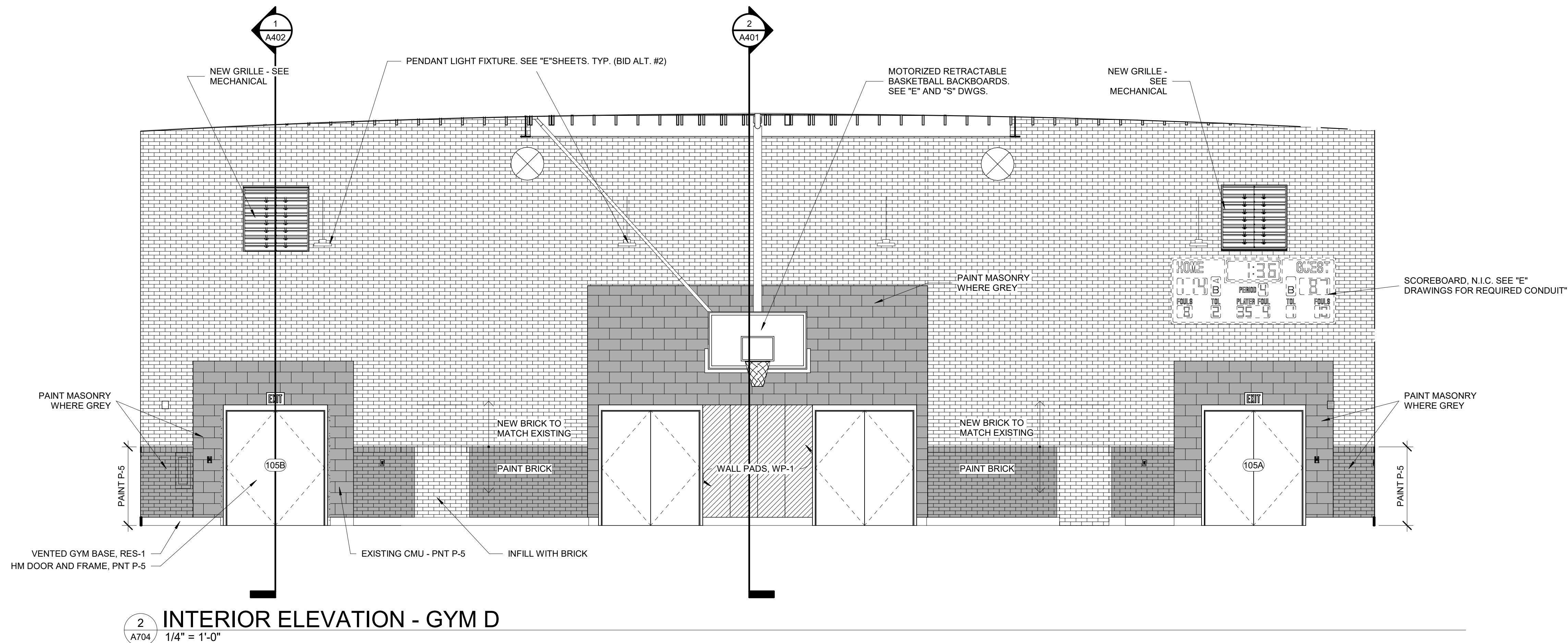
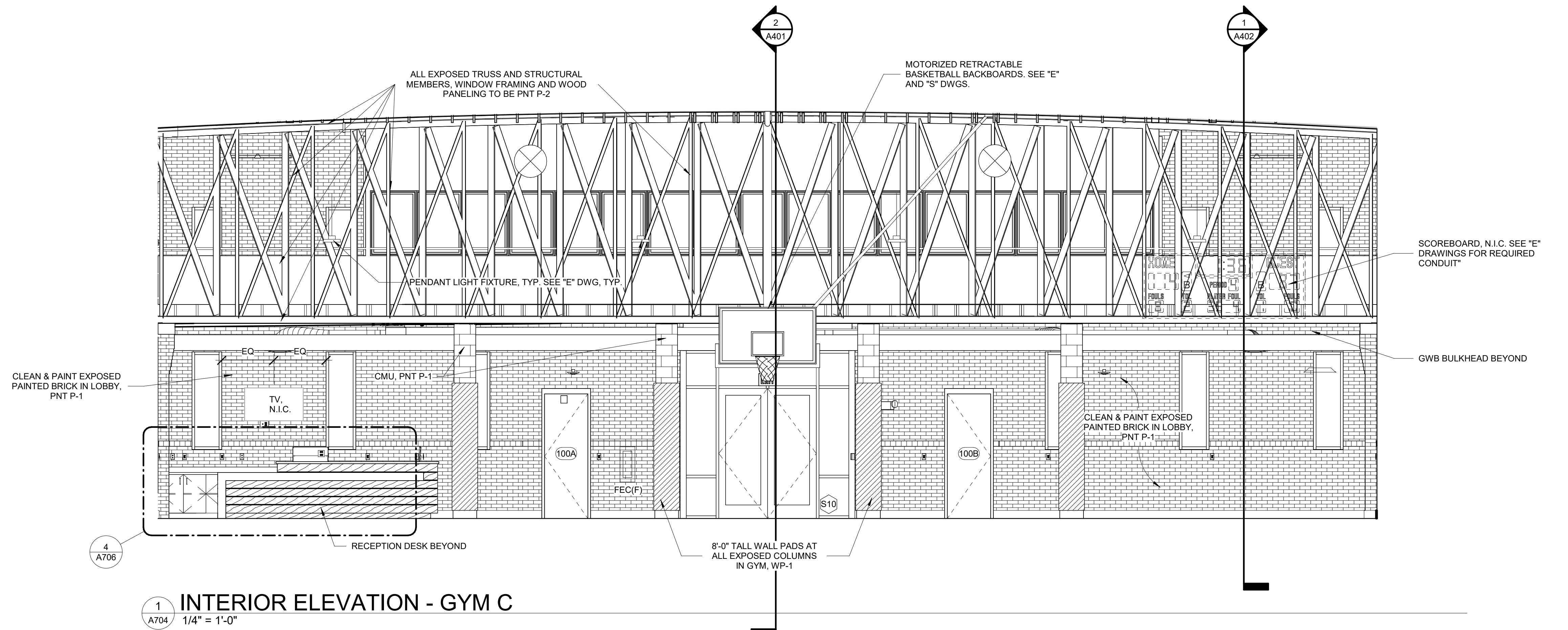
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PROJECT NO: 23029
DRAWN BY: Author
CHECKED BY: JDH

INTERIOR ELEVATIONS -
GYM

A704



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RENOVATION

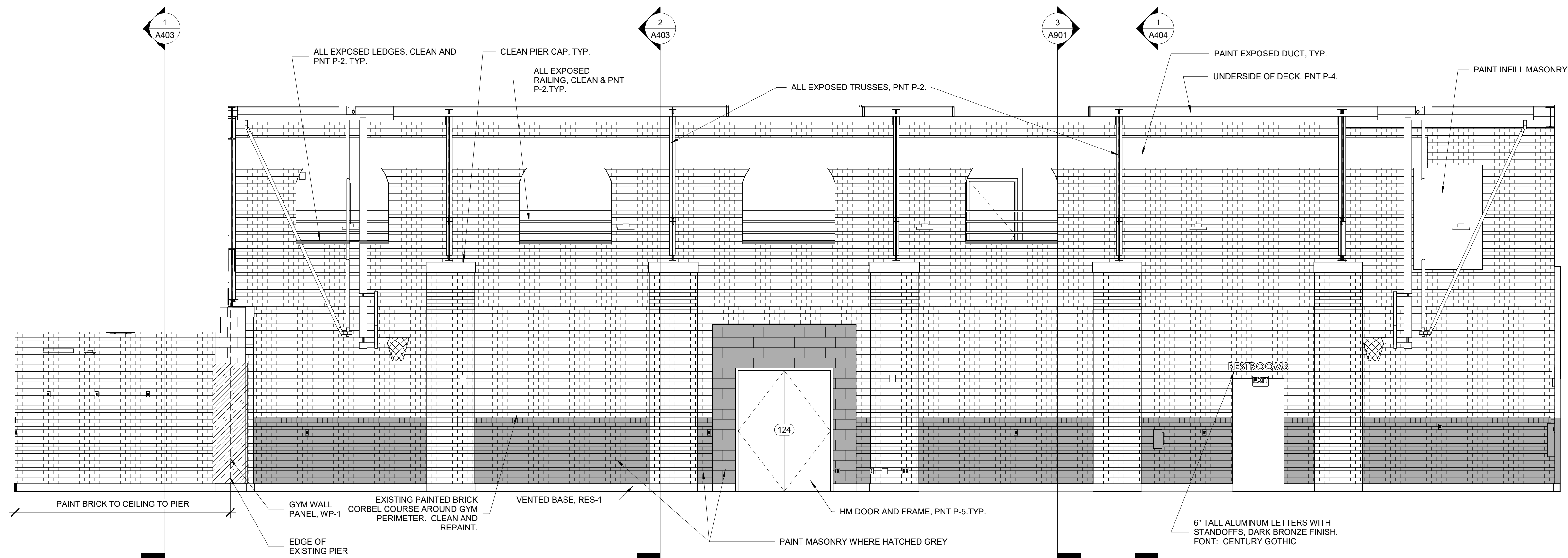
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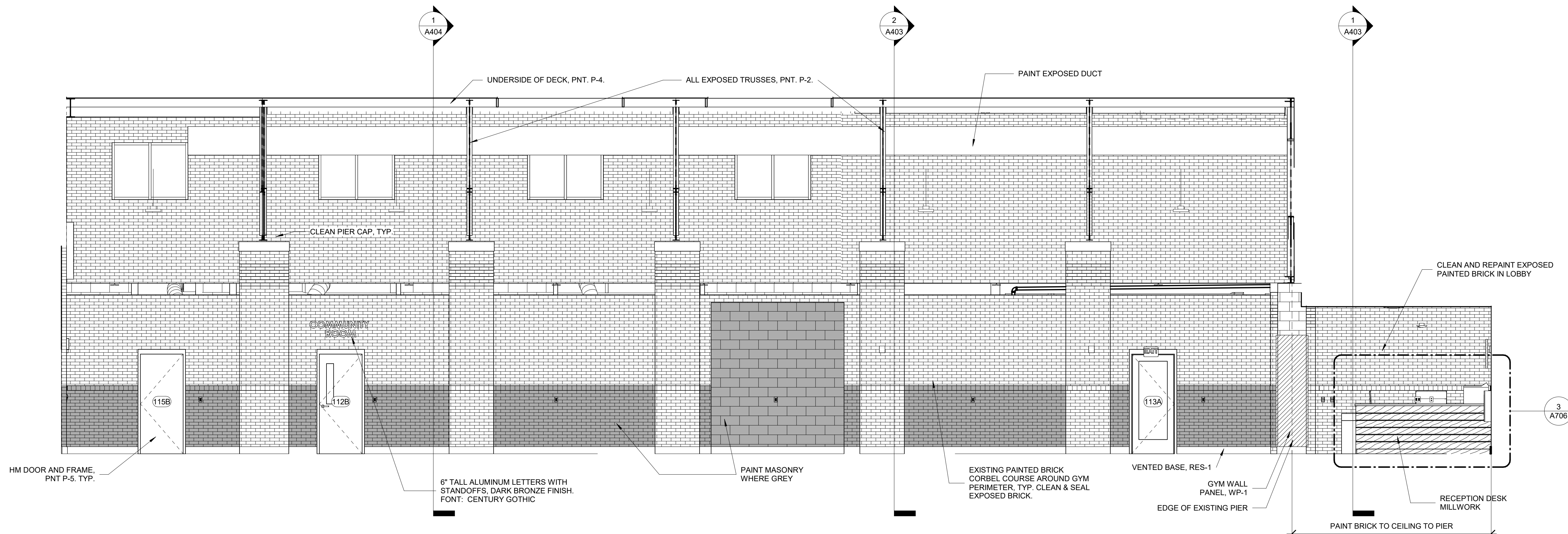
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PROJECT NO: 23029
DRAWN BY: Author
CHECKED BY: JDH

INTERIOR ELEVATIONS -
GYM

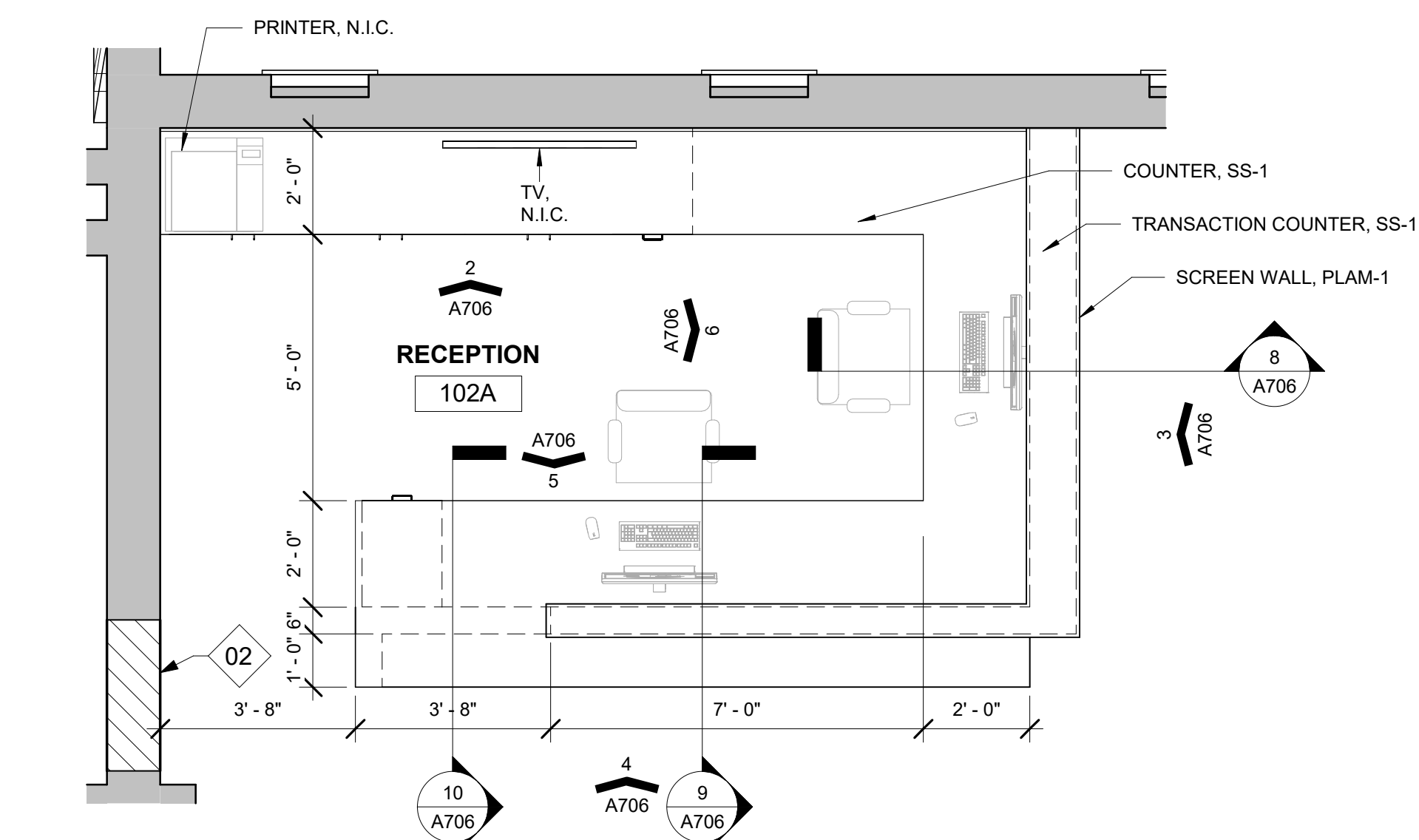
A705



3 INTERIOR ELEVATION - GYM A
A705 1/4" = 1'-0"

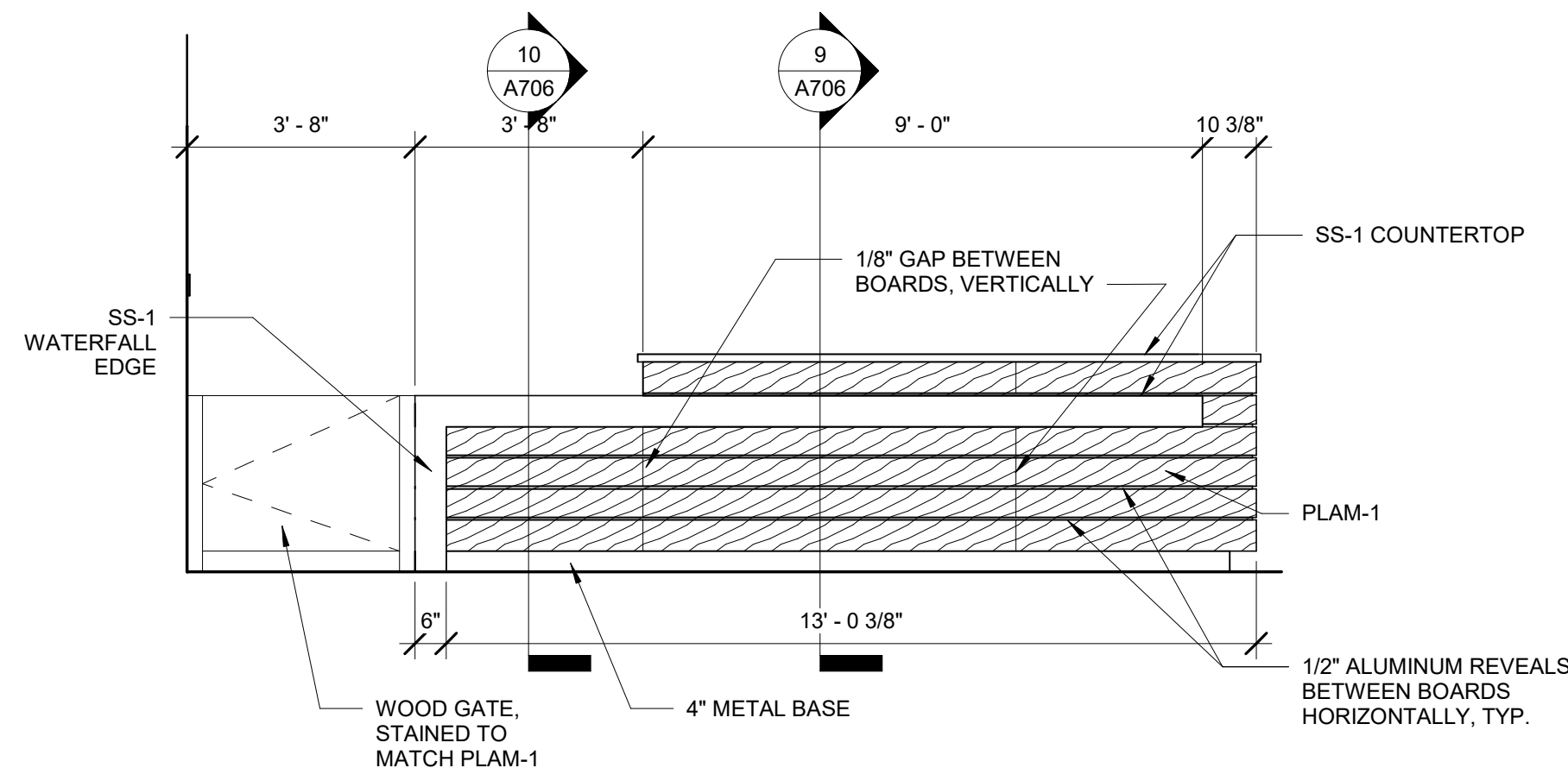


4 INTERIOR ELEVATION - GYM B
A705 1/4" = 1'-0"



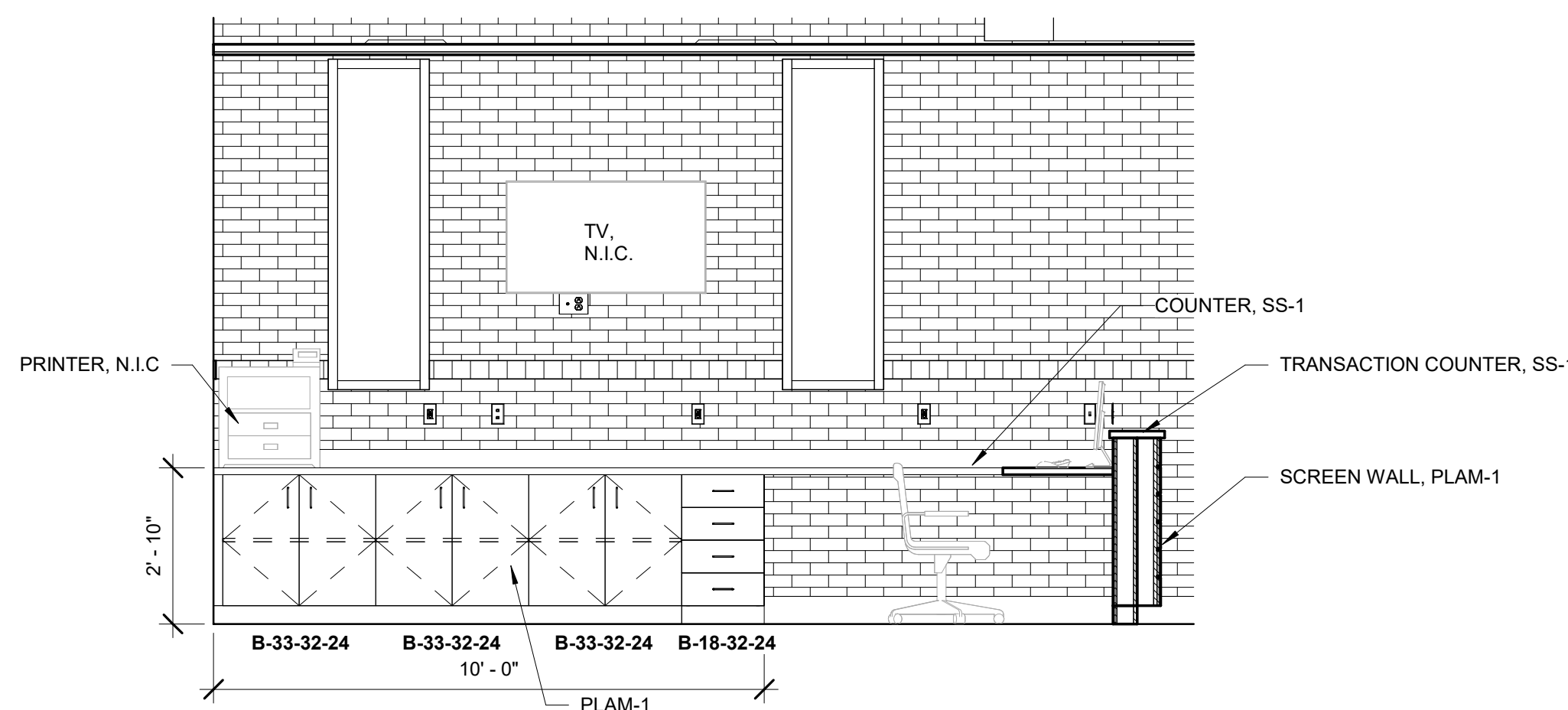
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A706
3/8" = 1'-0"

ENLARGED PLAN - RECEPTION AREA



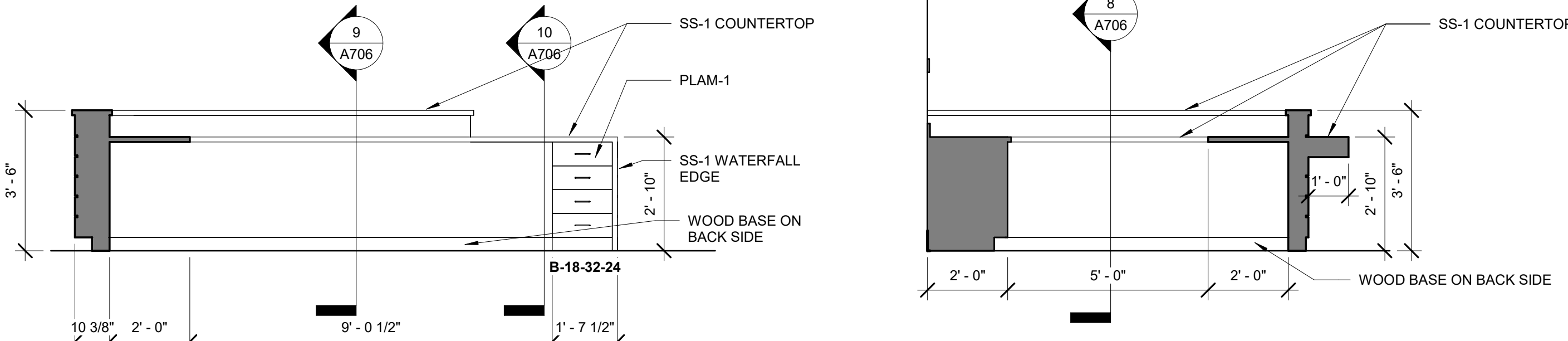
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A706
3/8" = 1'-0"

RECEPTION DESK - SOUTH



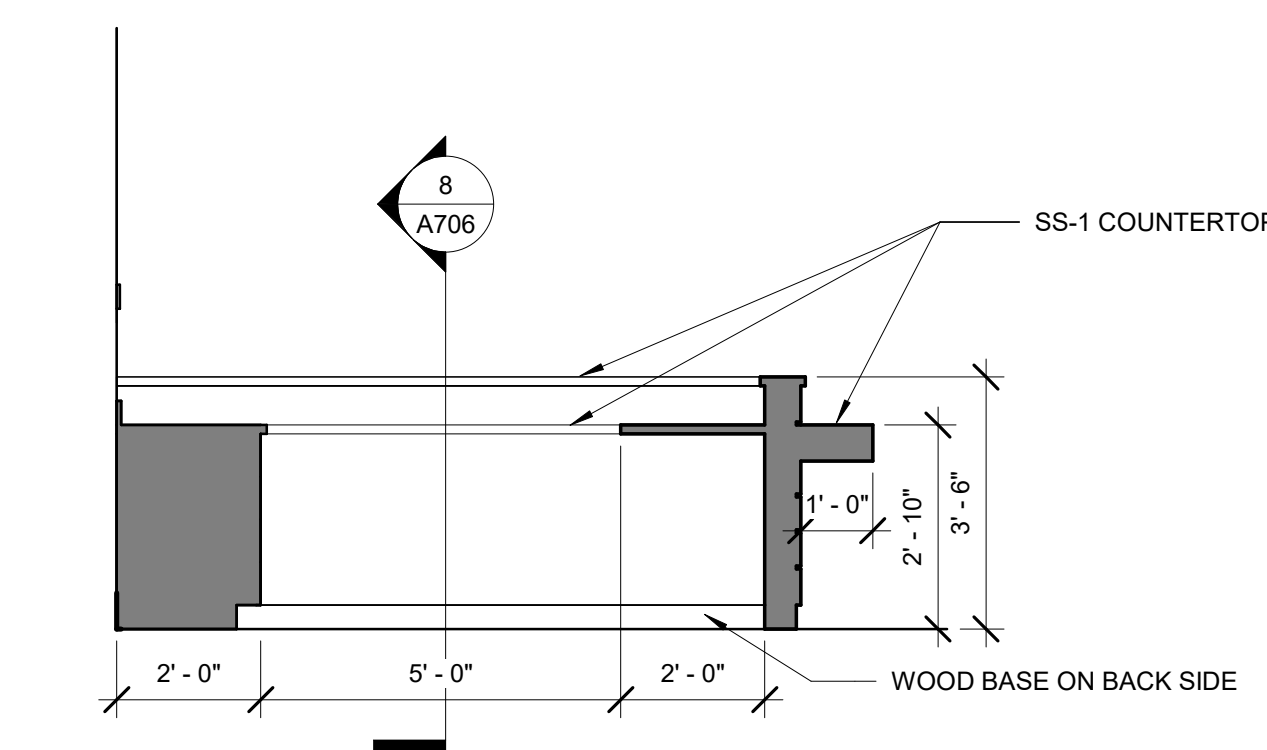
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A706
3/8" = 1'-0"

RECEPTION DESK - NORTH (INSIDE)



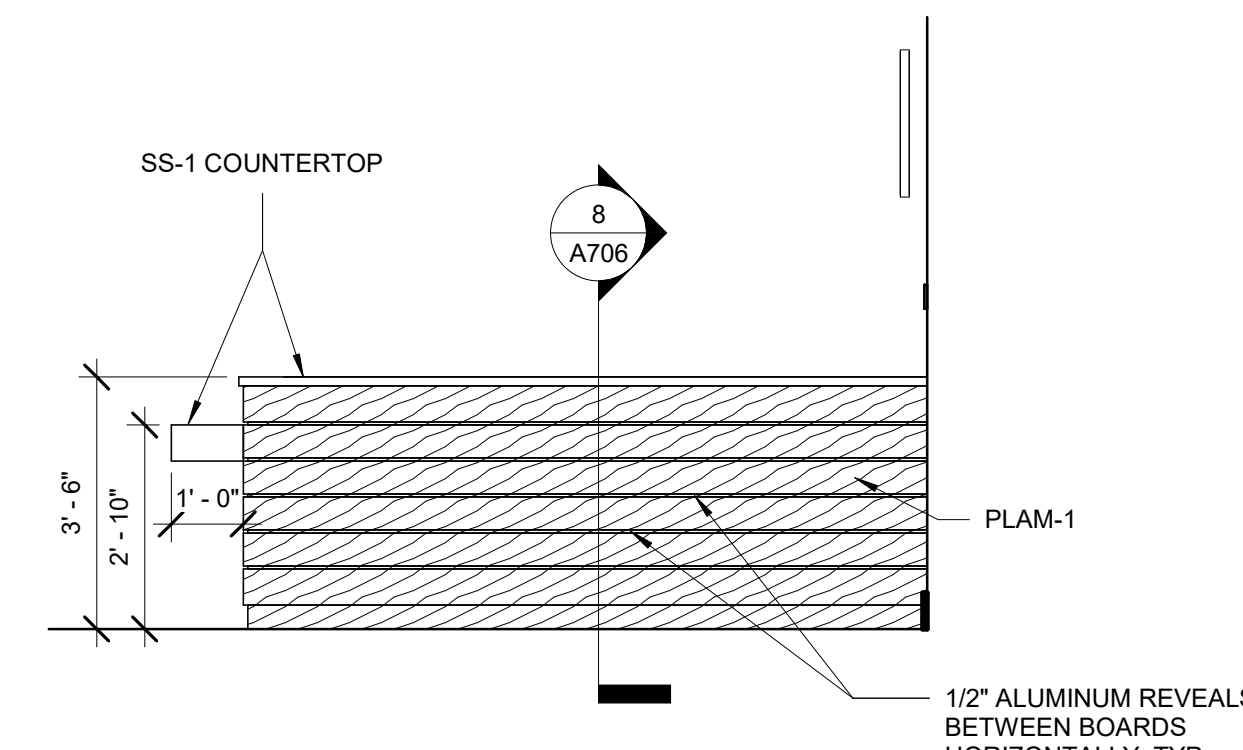
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3/8" = 1'-0"

RECEPTION DESK - SOUTH (INSIDE)



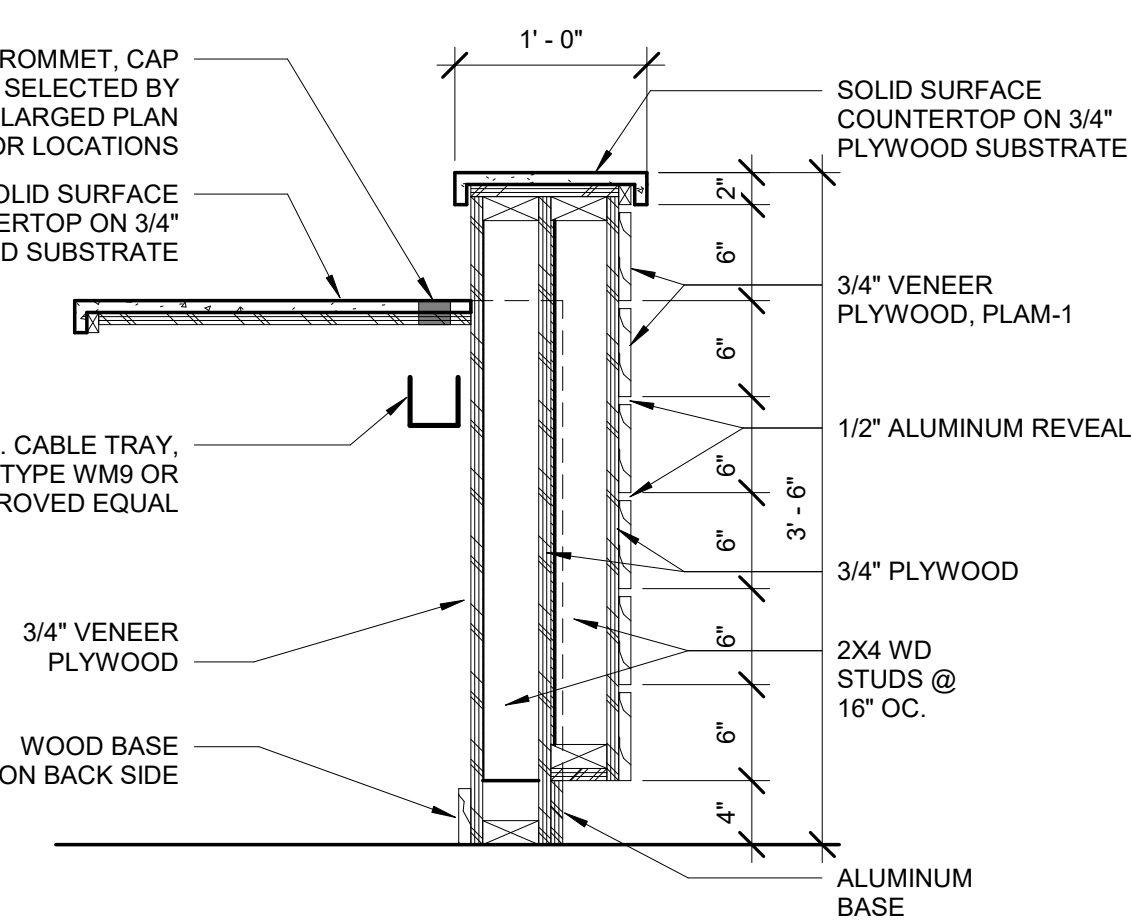
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3/8" = 1'-0"

RECEPTION DESK - WEST (INSIDE)



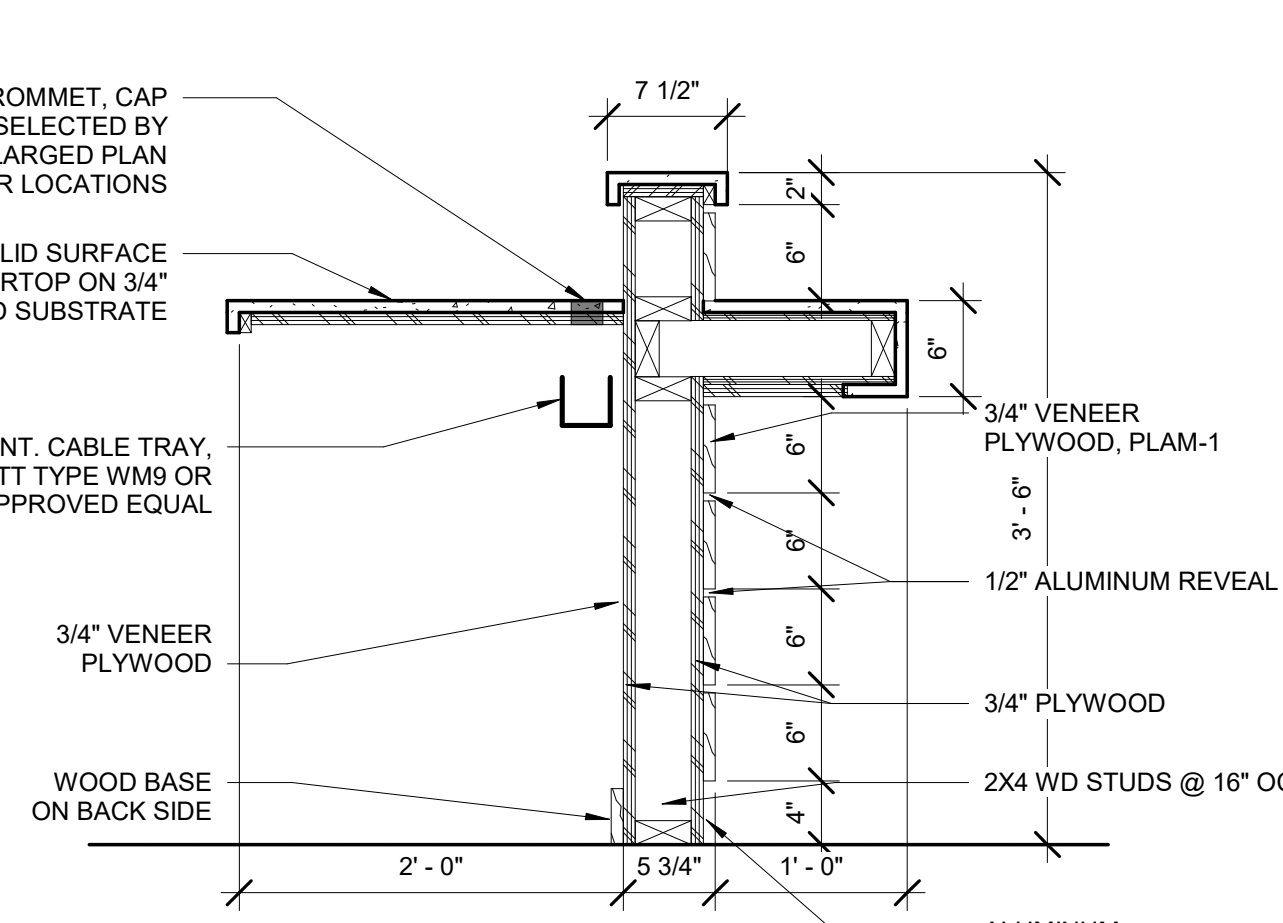
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A706
3/8" = 1'-0"

RECEPTION DESK - EAST



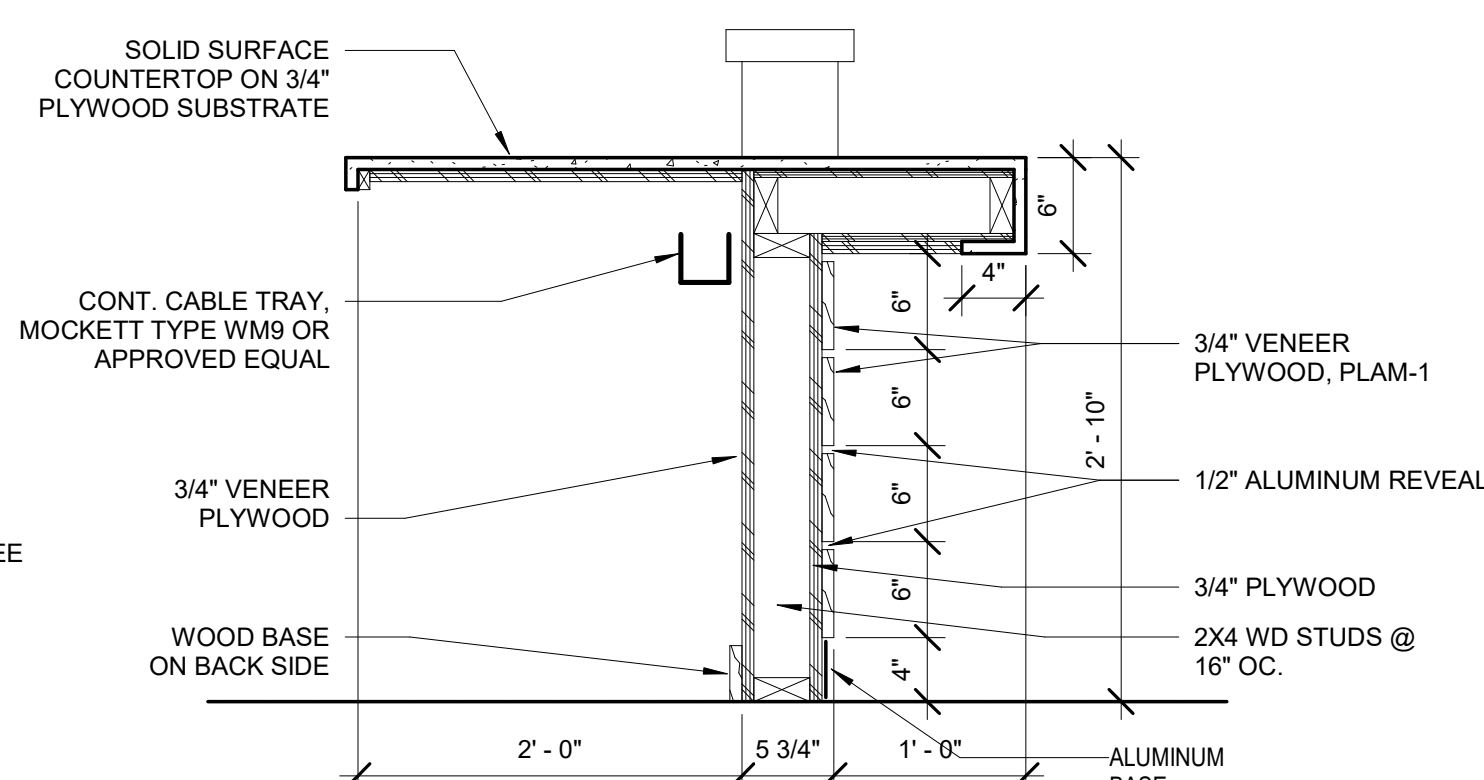
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A706
1" = 1'-0"

RECEPTION DESK - SECTION 1



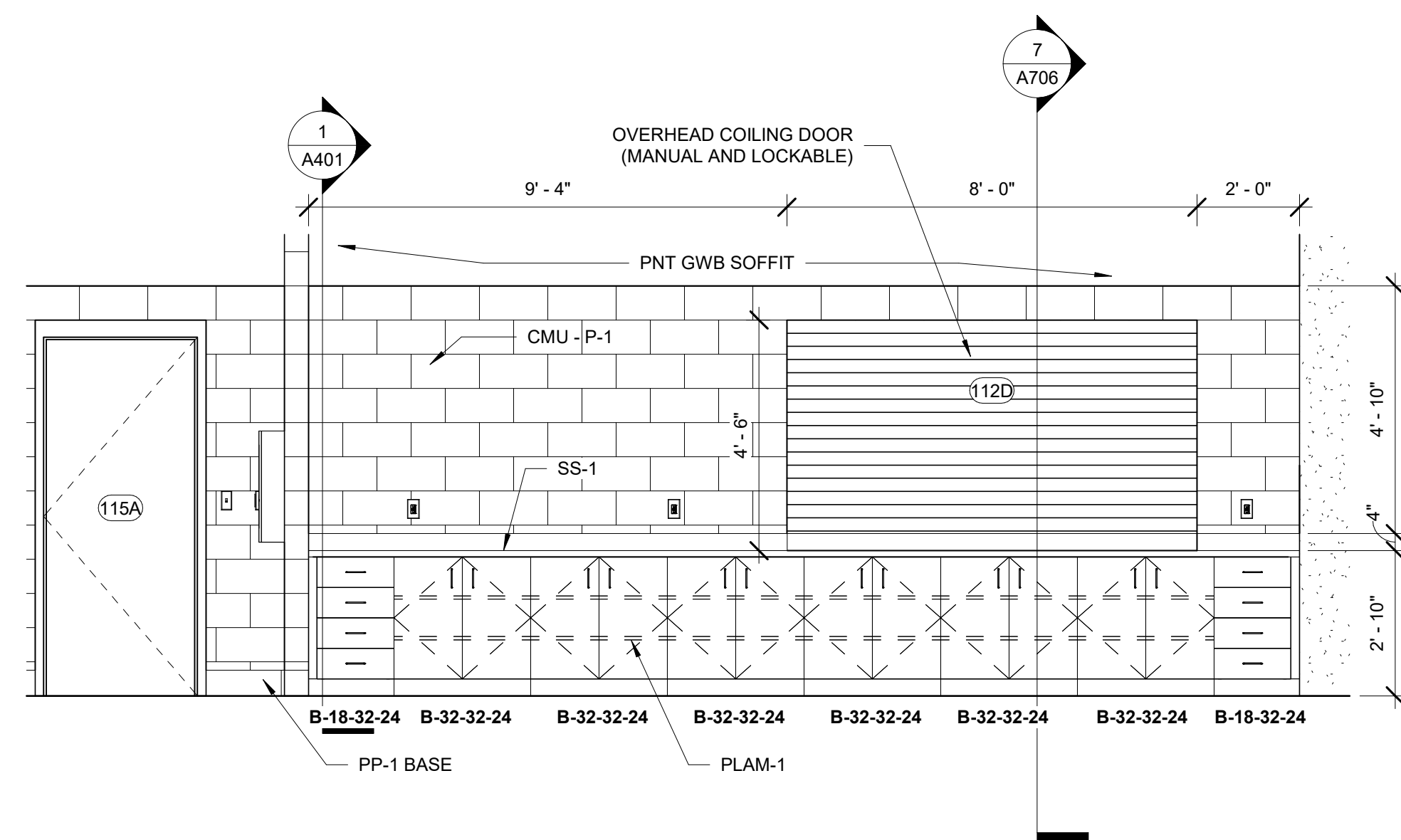
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1" = 1'-0"

RECEPTION DESK - SECTION 2



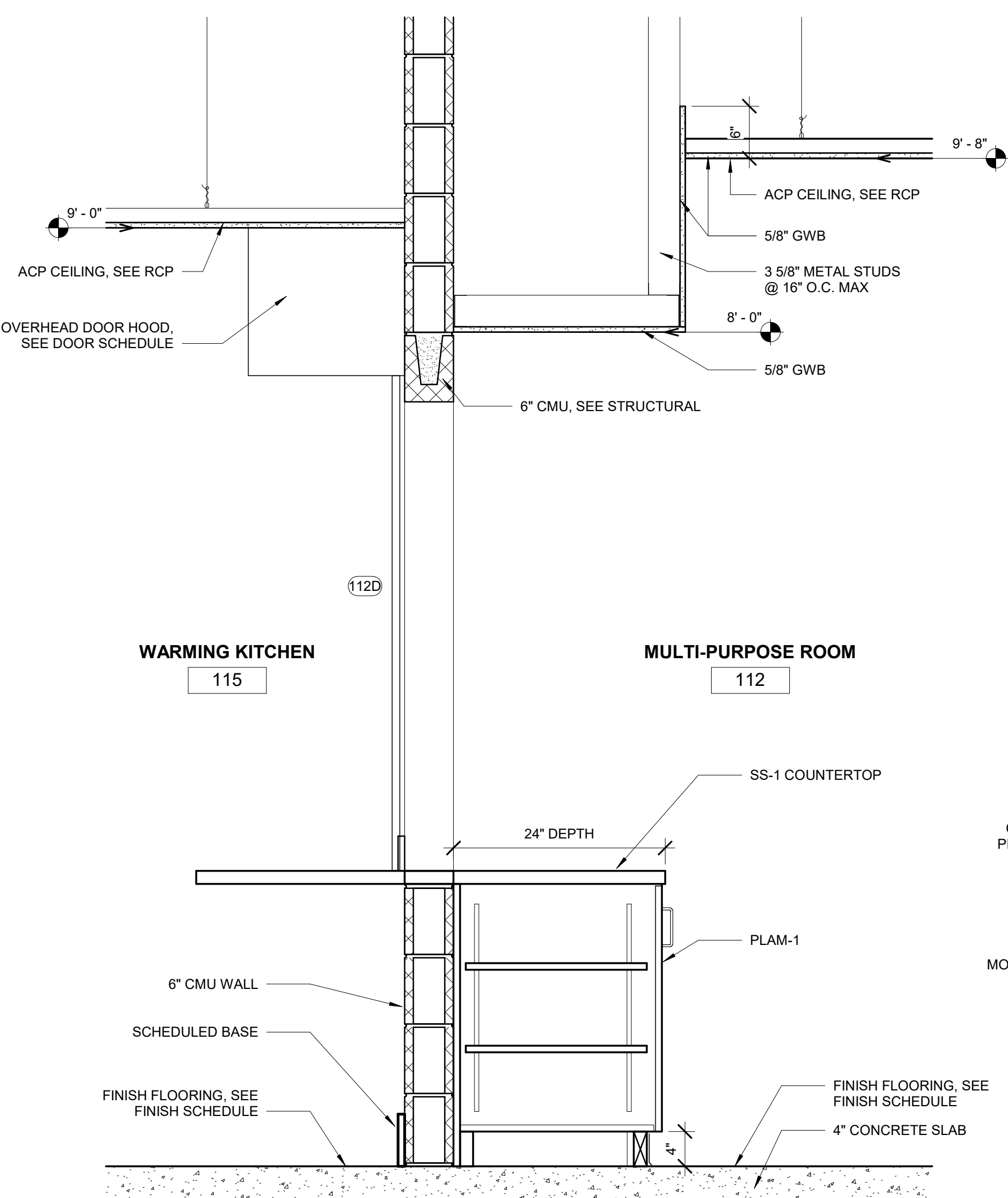
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A706
1" = 1'-0"

RECEPTION DESK - SECTION 3



11
A706
3/8" = 1'-0"

MULTI-PURPOSE ROOM - SOUTH



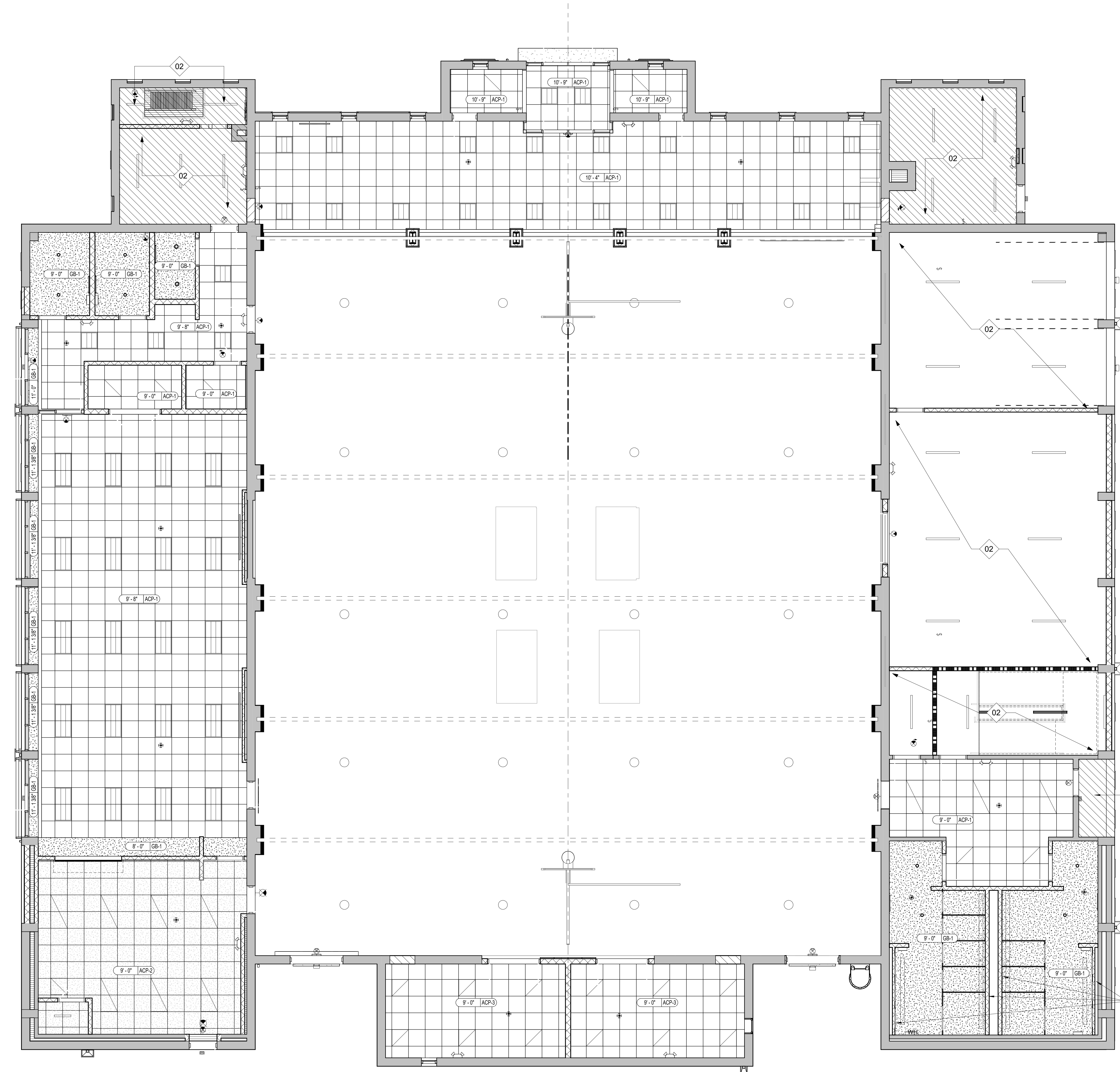
7
A706
1" = 1'-0"

MP COUNTER / COILING DOOR

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11/13/2025 11:36:10 AM

1
A801

MAIN LEVEL REFLECTED CEILING PLAN



REFLECTED CEILING
PLAN LEGEND

	ACP-1: 2'x2' SUSPENDED ACOUSTICAL PANEL CEILING SYSTEM TILE: MARS HIGH-NRC ACOUSTIC PANELS MFR: USG; TILE: 24" X 24" X 1"; NRC: 0.75; CAC 30; COLOR: WHITE; EDGE: SLT; LR: 0.80; GRID: DX GRID COLOR: WHITE; GRID PROFILE: D
	ACP-2: 2'x2' SUSPENDED ACOUSTICAL PANEL CEILING SYSTEM TILE: KITCHEN LAY-IN PANELS MFR: USG; TILE: 24" X 24" X 1"; NRC: N/A; CAC 35 COLOR: WHITE; EDGE: SD; LR: 0.80; GRID: DX GRID COLOR: WHITE; GRID PROFILE: A
	GB-1: SUSPENDED GYPSUM BOARD CEILING
	2 x 4 LIGHT FIXTURE
	2 x 2 LIGHT FIXTURE
	1 x 4 LIGHT FIXTURE
	LINEAR PENDANT LIGHT FIXTURE
	STRIP LIGHT FIXTURE
	TRACK LIGHT FIXTURE(S)
	PENDANT LIGHT FIXTURE
	DOWN LIGHT
	SUPPLY AIR DIFFUSER
	RETURN AIR DIFFUSER
	CEILING ELEVATION ABOVE FINISHED FLOOR / MATERIAL
	CEILING CASSETTE MINI - SPLIT. SEE MECHANICAL AND ELECTRICAL DRAWINGS. CENTER CASSETTE IN FOUR CEILING TILES.
	EMERGENCY EXIT SIGN

KEY NOTE LEGEND

01	BID ALTERNATE #2: 4' X 8' TECTUM CEILING PANEL ATTACHED TO WOOD DECKING ABOVE. PAINTED TO MATCH CEILING. SEE FINISH SHEETS FOR ADDITIONAL INFORMATION.
02	EXPOSED DECK, STRUCTURE AND EXPOSED SERVICES PAINTED. SEE FINISH SCHEDULE FOR COLORS AND ADDITIONAL INFO.
03	GYM LIGHT. SEE ELECTRICAL DWGS.
04	BID ALT NO. 11 EXISTING SKYLIGHT. BEAM TO GUIDE SCOPE
05	MOTORIZED BASKETBALL GOALS ATTACHED TO STRUCTURE ABOVE. SEE ELECTRICAL DRAWINGS
06	EXPOSED STRUCTURAL TRUSSES. CLEAN PNT P-2

GENERAL CEILING NOTES

- See finish schedule for ceiling material specifications.
- Unless noted otherwise, suspended grid ceilings shall be centered in all spaces.
- Unless noted otherwise, all ceiling heights shall be installed 9'-0" above the finished floor elevation.
- Provide access panels where required for access to equipment or devices located above continuous hard ceilings. The Contractor shall coordinate the reflected ceiling plans with engineering drawings for access door locations. Where ceiling access doors are required in public areas such as lobbies, public restrooms and conference rooms, access doors shall be through a removable grille in lieu of an operable access door. All access doors shall be indicated on coordination drawings and coordinated in the field with the Architect / Engineer.
- See engineering drawings for mechanical and electrical devices that are within the scope of the project but which are not depicted on these drawings.
- Unless noted otherwise, all devices including, but not limited to, lights, speakers, mechanical grilles, and switches shall be centered within the ceiling tile where indicated.
- Contractor shall provide all necessary framing and cross bracing for gypsum ceilings and vertical walls that define a break in a ceiling plane.
- All suspended ceiling work shall meet the requirements of all applicable codes and standards. Determination and evaluation of applicable code requirements, the engineering design of the system, and the installation of mechanical and electrical equipment within the suspended ceiling assembly shall be the responsibility of the Contractor or specialty Subcontractors. If required by code, an engineer licensed in the state in which the project is located shall design the system and submit design documents and calculations to the Architect for review.
- The Contractor shall coordinate all utility piping, ductwork, conduit, equipment, devices, fixtures and grilles with the architectural reflected ceiling plans and building sections. System components indicated on the drawings are approximate in nature and must be coordinated between all Subcontractors during the submittal phase and prior to installation of equipment. The Contractor shall prepare coordination drawings for review and approval prior to the installation of any systems components or suspended ceilings.
- See A802 Sheet for gym ceiling notes.

EXISTING TO REMAIN - REFINISH

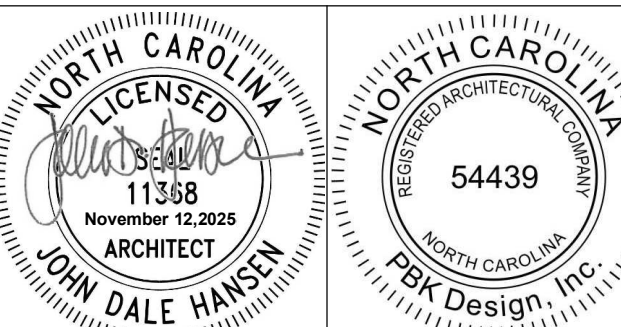
LINEAR LIGHT
FIXTURES ABOVE
SINKS AND TOILETS.
SEE ELECTRICAL

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CHECKED BY: JDH

MAIN LEVEL REFLECTED
CEILING PLAN

A801

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1 UPPER LEVEL REFLECTED CEILING PLAN
A802 / 3/16" = 1'-0"



REFLECTED CEILING
PLAN LEGEND

	ACP-1: 2'x2' SUSPENDED ACOUSTICAL PANEL CEILING SYSTEM TILE: MARS HIGH-NRC ACOUSTIC PANELS MFR: USG; TILE: 24" X 24" X 1"; NRC: 0.75; CAC 30; COLOR: WHITE; EDGE: SLT; LR: 0.80; GRID: DX GRID COLOR: WHITE; GRID PROFILE: D
	ACP-2: 2'x2' SUSPENDED ACOUSTICAL PANEL CEILING SYSTEM TILE: KITCHEN LAY-IN PANELS MFR: USG; TILE: 24" X 24" X 1"; NRC: N/A; CAC 35 COLOR: WHITE; EDGE: SD; LR: 0.80; GRID: DX GRID COLOR: WHITE; GRID PROFILE: A
	GB-1 : SUSPENDED GYPSUM BOARD CEILING
	2 x 4 LIGHT FIXTURE
	2 x 2 LIGHT FIXTURE
	1 x 4 LIGHT FIXTURE
	LINEAR PENDANT LIGHT FIXTURE
	STRIP LIGHT FIXTURE
	TRACK LIGHT FIXTURE(S)
	PENDANT LIGHT FIXTURE
	DOWN LIGHT
	SUPPLY AIR DIFFUSER
	RETURN AIR DIFFUSER
	CEILING ELEVATION ABOVE FINISHED FLOOR MATERIAL
	CEILING CASSETTE MINI - SPLIT. SEE MECHANICAL AND ELECTRICAL DRAWINGS. CENTER CASSETTE IN FOUR CEILING TILES.
	EMERGENCY EXIT SIGN

KEY NOTE LEGEND

01	BID ALTERNATE #2: 4' X 8' TECTUM CEILING PANEL ATTACHED TO WOOD DECKING ABOVE. PAINTED TO MATCH CEILING. SEE FINISH SHEETS FOR ADDITIONAL INFORMATION.
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03	GYM LIGHT. SEE ELECTRICAL DWGS.
04	BID ALT NO. 11 EXISTING SKYLIGHT. BEAM TO GUIDE SCOPE
05	MOTORIZED BASKETBALL GOALS ATTACHED TO STRUCTURE ABOVE. SEE ELECTRICAL DRAWINGS
06	EXPOSED STRUCTURAL TRUSSES. CLEAN PNT P-2

GENERAL CEILING NOTES

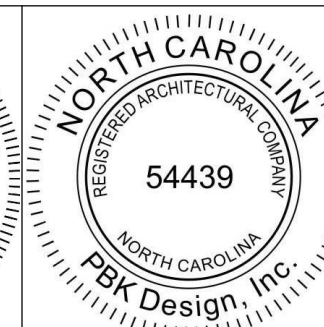
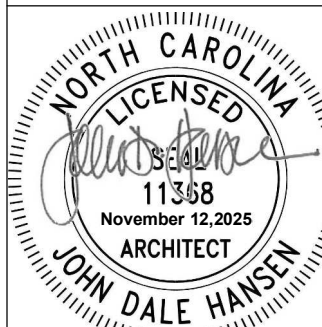
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- See A802 Sheet for gym ceiling notes.

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DATE: 11/12/2025
PROJECT NO: 23029
DRAWN BY: JH
CHECKED BY: JDH

UPPER LEVEL
REFLECTED CEILING
PLAN

A802

ARMORY
COMMUNITY
CENTER
RENOVATION

DATE	MARK	DESCRIPTION
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STAIR DETAILS

A901



GENERAL REQUIREMENTS

1. THE STRUCTURE DESCRIBED BY THESE DOCUMENTS IS INTENDED TO WORK AS A COMPLETED STRUCTURE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION INCLUDING TEMPORARY SHORING AND BRACING AND TEMPORARY SUPPORTS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR COORDINATION OF HIS OR HER WORK WITH ALL OTHER TRADES, AND FOR PERFORMING ALL WORK IN A SAFE AND SATISFACTORY MANNER.

2. ENGINEER/ARCHITECTS APPROVAL MUST BE OBTAINED IN WRITING FOR ALL DEVIATIONS AND SUBSTITUTIONS. THE ENGINEER/ARCHITECT IS NOT RESPONSIBLE FOR THE FAILURE OF THE CONTRACTOR TO BUILD THE STRUCTURE ACCORDING TO THE DOCUMENTS.

3. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO DETAILING, FABRICATION, AND CONSTRUCTION, AND SHALL NOTIFY THE ENGINEER/ARCHITECT OF ANY DISCREPANCIES.

4. FOR ADDITIONAL INFORMATION, SEE THE PROJECT SPECIFICATIONS. IN THE CASE OF A DISCREPANCY, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN UNLESS APPROVED OTHERWISE IN WRITING BY THE ENGINEER.

5. OWNER SHALL EMPLOY AND PAY A QUALIFIED INDEPENDENT TESTING AGENCY TO PERFORM TESTS AND INSPECTIONS SPECIFIED IN OTHER SECTIONS AND THOSE REQUIRED BY AUTHORITIES HAVING JURISDICTION, INCLUDING ALL SPECIAL INSPECTIONS. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING INSPECTIONS AND TESTS. RETESTING: OWNER SHALL PAY FOR RETESTING WHERE RESULTS OF INSPECTIONS AND TESTS PROVE UNSATISFACTORY AND INDICATE NONCOMPLIANCE WITH REQUIREMENTS. THE OWNER RESERVES THE RIGHT TO DEDUCT COSTS OF RETESTING FROM CONSTRUCTION CONTRACT COSTS.

6. SECTIONS SHOWN ON STRUCTURAL DRAWINGS PROVIDE TYPICAL DETAILING INFORMATION THAT SHALL BE APPLIED TO ALL SIMILAR AND LIKE CONDITIONS, U.N.O. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH PROJECT REQUIREMENTS.

7. COORDINATE FLOOR, ROOF, AND WALL OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL PLANS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

CAST-IN-PLACE CONCRETE

1. ALL WORK SHALL COMPLY WITH ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS," ASTM C84, AND CRSIS "MANUAL OF STANDARD PRACTICE."

2. DESIGN OF ALL FORMWORK AND BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR

3. DEFORMED REINFORCING BARS: ASTM A615, GRADE 60

4. WELDED STEEL WIRE FABRIC: ASTM A1034, FLAT SHEETS, NOT ROLLS. LAP A MINIMUM OF ONE CROSS WIRE SPACING PLUS 2 INCHES

5. PORTLAND CEMENT: ASTM C 150, TYPE I

6. AGGREGATE: NORMAL WEIGHT CONCRETE, ASTM C33, LIGHT WEIGHT CONCRETE, ASTM C330

7. FLY ASH: ASTM C 618, TYPE F

8. PROPORTION MIX DESIGNS TO PROVIDE THE FOLLOWING PROPERTIES:

A. UNIT WEIGHT: NORMAL WEIGHT CONCRETE 145 PCF
LIGHT WEIGHT CONCRETE 115 PCF

B. AIR CONTENT: EXPOSURE CLASS F1, F2 > 4% ±1%
F3 > 6% ±1%

C. CEMENTITIOUS MATERIAL: LIMIT FLY ASH TO 15 PERCENT OF TOTAL CEMENT CONTENT

APPLICATION	EXPOSURE CLASS	28 DAY STRENGTH	MAX W/C	MAX AGGREGATE
INTERIOR SLAB ON GRADE	F0	4000 PSI	0.53	1"

9. DO NOT ADD WATER TO CONCRETE DURING DELIVERY, AT PROJECT SITE, OR DURING PLACEMENT, UNLESS APPROVED BY ENGINEER

10. PROTECT CONCRETE FROM PHYSICAL DAMAGE OR REDUCED STRENGTH DUE TO WEATHER EXTREMES DURING MIXING, PLACING, AND CURING. COMPLY WITH ACI 305R "GUIDE TO HOT WEATHER CONCRETING" AND ACI 308R "GUIDE TO COLD WEATHER CONCRETING"

11. OWNER SHALL ENGAGE AN INDEPENDENT TESTING AGENCY TO PERFORM TESTS AND TO SUBMIT TEST REPORTS TO THE ENGINEER. OBTAIN ONE COMPOSITE SAMPLE FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE EXCEEDING 5 CU. YD., BUT LESS THAN 25 CU. YD., PLUS ONE SET FOR EACH ADDITIONAL 50 CU. YD. OR FRACTION THEREOF. WHEN FREQUENCY OF TESTING PROVIDES FEWER THAN FIVE COMPRESSION STRENGTH TESTS FOR EACH CONCRETE MIXTURE, TESTING SHALL BE CONDUCTED FROM AT LEAST FIVE INDIVIDUALLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN FIVE ARE USED. A COMPOSITE SAMPLE CONSISTS OF FIVE CYLINDERS, ONE CYLINDER TO BE TESTED AT 7 DAYS, THREE CYLINDERS TO BE TESTED AT 28 DAYS AND ONE CYLINDER TO BE RESERVED FOR 90 DAYS IF NEEDED. THE TESTING AGENCY SHALL ALSO RECORD SLUMP, AIR CONTENT, AND TEMPERATURE OF EACH CYLINDER

12. SLAB FINISHES: REFER TO THE ARCHITECT FOR FLOOR FINISHES. PROVIDE A TROWEL FINISH FOR FLOOR SURFACES TO RECEIVE FLOOR COVERINGS, PAINT, OR OTHER THIN FILM FINISH COATINGS. SPECIFIED OVERALL VALUES OF FLATNESS, F(1) 35 AND LEVELNESS, F(1) 25, WITH MINIMUM LOCAL VALUES OF FLATNESS, F(1) 24, AND LEVELNESS, F(1) 17, NONSLIP BROOM FINISH TO EXTERIOR CONCRETE PLATFORMS, STEPS, AND RAMPS

13. PROVIDE A 3/4" CHAMFER ON EDGES, U.N.O.

14. FOR SLAB ON GRADE, FORM 18" WIDE CONTRACTION JOINTS WITH POWER SAWS WHEN CUTTING ACTION WILL NOT TEAR, ABRADE, OR OTHERWISE DAMAGE SURFACE, AND BEFORE CONCRETE DEVELOPS RANDOM CONTRACTION JOINTS. SEE DETAILS FOR ADDITIONAL INFO. UNLESS NOTED OTHERWISE, LOCATE CONTRACTION JOINTS AT COLUMN LINES WITH A MAX RATIO OF 1.5 LENGTH TO WIDTH, AND NO FARTHER APART THAN 36 TIMES THE SLAB THICKNESS

15. BEGIN CURING UNFORMED CONCRETE AFTER FINISHING. KEEP CONCRETE CONTINUOUSLY MOIST FOR AT LEAST 7 DAYS OR APPLY MEMBRANE FORMING CURING COMPOUND TO CONCRETE. CONTRACTOR SHALL VERIFY COMPOUND IS COMPATIBLE WITH FLOOR COVERING/COATINGS

16. PROTECT CONCRETE FROM DAMAGE. REPAIR SURFACE DEFECTS IN CONCRETE

REINFORCING STEEL

21. PROVIDE REINFORCING STEEL CONFORMING TO ASTM A706 FOR ALL REINFORCING STEEL REQUIRED TO BE WELDED AND WHERE NOTED ON THESE DOCUMENTS

22. PROVIDE DEFORMED REBAR EMBEDMENT, LAP SPLICES, AND HOOKS AS DETAILED ON DRAWINGS. IF NOT SPECIFIED, FOLLOW ACI 301 STANDARD DETAILING REQUIREMENTS FOR THE APPROPRIATE CONDITIONS WITH CLASS B LAPS

23. REINFORCING STEEL SHALL BE LAPPED WITH CLASS "B" LAP SPLICE, UNLESS SPECIFICALLY DETAILED OTHERWISE. PROVIDE CONTINUOUS REINFORCEMENT WHERE EVER POSSIBLE. SPLICE ONLY AS SHOWN OR APPROVED. STAGGER SPLICES WHERE POSSIBLE: USE TENSION SPLICE CLASS "B", UNLESS NOTED OTHERWISE. JOINTS SHALL MATCH THE SIZE AND SPACING OF THE WALL OR COLUMN SPECIFIED REINFORCEMENT AND SHALL BE LAPPED WITH TENSION SPLICES (CLASS "B"), UNLESS NOTED OTHERWISE

24. HORIZONTAL REINFORCEMENT IN FOOTINGS, TURNDOWN SLABS, AND WALLS SHALL BE CONTINUOUS AROUND CORNERS. HORIZONTAL REINFORCEMENT SHALL CONTINUE AT BENDS AND CORNERS WITH BEND TO FAR FACE OF INTERSECTING ELEMENT IN EACH DIRECTION. ADDITIONAL HORIZONTAL CORNER BARS OF SAME SIZE AND SPACING MAY BE PROVIDED. PROVIDE CORNER BARS AT ALL TURNDOWN SLAB CORNERS AND C/P. CONCRETE HALL CORNERS. PROVIDE LAP SPLICE AS TIMES BAR DIAMETER, WHERE PERPENDICULAR WALLS ARE NOT POURED CONTINUOUS. PROVIDE A KEYED JOINT WITH CORNER BARS. PROVIDE SPACERS, CHAIRS, BOLTERS, ETC. AS REQUIRED TO ASSEMBLE, PLACE, AND SUPPORT ALL REINFORCING IN PLAN

STRUCTURAL STEEL

1. COMPLY WITH AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS," LATEST EDITION. BOLTED CONNECTIONS SHALL COMPLY WITH RCSCS "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS," LATEST EDITION

2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:

A. WIDE FLANGE SHAPES AND CHANNELS - ASTM A992, GRADE 50

B. HSS RECTANGULAR - ASTM A500 GRADE C, Fy=50 KSI

C. HSS ROUND AND STEEL PIPE - ASTM A500 GRADE C, Fy=50 KSI

D. OTHER SHAPES, ANGLES, PLATES, AND BARS - ASTM A36, Fy=36 KSI

E. ANCHOR RODS, BOLTS, NUTS - ASTM F1554 G: 55.1, UNWELDED RODS

F. BOLTS, NUTS, AND WASHERS - ASTM A325, TYPE 1, HIGH-STRENGTH HEAVY HEX STEEL STRUCTURAL BOLTS, HEAVY HEX CARBON-STEEL NUTS, AND HARDENED CARBON-STEEL WASHERS, UNCOATED

G. WELDS: EXPOSURE PER AWS

H. PRIMER: LEAD-FREE AND CHROMATE-FREE, NONASPHALTIC, RUST-INHIBITING PRIMER

I. GROUT: ASTM C1107, NONMETALLIC, SHRINKAGE RESISTANT, PREMIUM, MINIMUM COMPRESSIVE STRENGTH = 5000 PSI

7. FABRICATE STRUCTURAL STEEL ACCORDING TO AISC SPECIFICATIONS AND TOLERANCE LIMITS OF AISC'S "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" FOR STRUCTURAL STEEL

8. SHOP PRIMING: PREPARE SURFACES ACCORDING TO SSPC SP-2 OR SSPC SP-3. SHOP PRIME STEEL TO A DRY FILM THICKNESS OF AT LEAST 2.0 MILS. DO NOT PRIME SURFACES TO BE EMBEDDED IN CONCRETE OR MORTAR TO BE FIELD WELDED

9. ALL STEEL EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED UNLESS NOTED OTHERWISE. REMOVE ALL MOISTURE DURING AND PERMANENTLY SEAL VENT AND DRAIN HOLES OF GALVANIZED ASSEMBLIES PRIOR TO TRANSPORTATION TO THE JOB SITE

10. GALVANIZED FINISHES SHOULD BE TOUCHED UP OR REPAIRED WITH ZINC RICH PAINT AFTER WELDING

11. ERECT STRUCTURAL STEEL ACCORDING TO AISC SPECIFICATIONS AND WITHIN ERECTION TOLERANCES OF AISC'S "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"

12. SET BASES AND BEARING PLATES ON WEDGES, SHIMS, OR SETTING NUTS. TIGHTEN ANCHOR BOLTS, CUT OFF WEDGES OR SHIMS FLUSH WITH EDGE OF PLATE, AND PACK GROUT SOLIDLY BETWEEN BEARING SURFACES AND PLATES

13. ALL DECK EDGES SHALL HAVE CONTINUOUS SUPPORT. PROVIDE 1/4x4x14 CONTINUOUS SUPPORT ANGLE UNLESS NOTED OTHERWISE. WELD ANGLE TO EACH SUPPORT BEAM OR JOIST WITH 1/8"x2" FILLET WELDS, U.N.O. WHERE ANGLE ABUTS MASONRY WALL, ATTACH ANGLE TO WALL WITH 3/4" DIA. EPOXY ANCHORS AT 24" O.C. U.N.O.

14. PROVIDE 3" CONCRETE COVER OVER ALL STEEL BELOW GRADE

ROUGH CARPENTRY

1. DRESSED LUMBER, S4S, 19 PERCENT MAXIMUM MOISTURE CONTENT FOR 2-INCH THICKNESS OR LESS, MARKED WITH GRADE STAMP OF INSPECTION AGENCY

2. PRESERVATIVE-TREATED MATERIALS: AWPAC LUMBER AND AWPAC OSB PLYWOOD, LABELED BY AN INSPECTION AGENCY APPROVED BY AISC'S BOARD OF REVIEW. AFTER TREATMENT, KILN DRY LUMBER AND PLYWOOD TO 19 AND 15 PERCENT MOISTURE CONTENT, RESPECTIVELY. TREAT INDICATED ITEMS AND THE FOLLOWING:

A. WOOD MEMBERS IN CONTACT WITH ROOFING, FLASHING, VAPOR BARRIERS, AND WATERPROOFING

B. CONCEALED MEMBERS IN CONTACT WITH MASONRY OR CONCRETE

3. CONCEALED BOARDS: 19 PERCENT MAXIMUM MOISTURE CONTENT

4. JOISTS, BEAMS, HEADERS: SOUTHERN PINE, NO. 2

5. RAFTERS: SOUTHERN PINE, NO. 2

6. STUDS: SPRUCE-PINE-FIR NO. 2, SPF or SPF/N OR SPS/N NOT ALLOWED

7. LVL: ALL LVL MEMBERS TO BE 1 7/8" WIDE EACH SINGLE MEMBER AND Fb=2600 PSI, E=1.9MPSI

8. PSI: ALL PSI MEMBERS TO HAVE MINIMUM Fb=2600 PSI, E=2.0MPSI

9. MISCELLANEOUS LUMBER, NO. 1 OR STANDARD GRADE OF ANY SPECIES FOR NAILERS, BLOCKING, AND SIMILAR MEMBERS

10. ALL KING STUDS SHALL BE CONTINUOUS TO SLAB ON GRADE, TYP.

11. WOOD-BASED STRUCTURAL-USE PANELS: DOC PS 2, PROVIDE PLYWOOD COMPLYING WITH DOC PS 1, WHERE PLYWOOD IS INDICATED

A. FACTORY MARK PANELS EVIDENCING COMPLIANCE WITH GRADE REQUIREMENTS

B. PANELS WITH SPAN RATINGS REQUIRED BY SUPPORT SPACING INDICATED

C. WALL SHEATHING: 1/2" NOMINAL, 1532' APA RATED SHEATHING (PLYWOOD OR OSB), 32/16, EXPOSURE 1, NOMINAL 4x8', BLOCK ALL PANEL EDGES

D. FLOOR SHEATHING: 3/4" NOMINAL, TAG, 2332' APA RATED PLYWOOD SHEATHING, 4024, EXPOSURE 1, NOMINAL 4x8', TONGUE AND GROOVE, INSTALL SHEATHING WITH FACE GRAIN ACROSS SUPPORTS. ATTACH SHEATHING WITH 10d NAILS AT 12" O.C. PANEL EDGES AND @ 12" O.C. AT INTERMEDIATE SUPPORTS

E. ROOF SHEATHING: 5/8" NOMINAL, 1932' APA RATED SHEATHING (PLYWOOD OR OSB), 4020, EXPOSURE 1, NOMINAL 4x8', INSTALL SHEATHING WITH FACE GRAIN ACROSS SUPPORTS. ATTACH SHEATHING WITH 10d NAILS AT 16" O.C. ALONG PANEL EDGES AND AT 12" O.C. AT INTERMEDIATE SUPPORTS. AT UNLOCKED PANEL EDGES PROVIDE 4" CLIPS AT MID SPAN OF PANELS

12. FIT ROUGH CARPENTRY TO OTHER CONSTRUCTION, SCRIBE AND COPE FOR ACCURATE FIT. CORRELATE LOCATION OF FURRING, BLOCKING, AND SIMILAR SUPPORTS TO ALLOW ATTACHMENT OF OTHER CONSTRUCTION

13. BEARING AT EACH END OF WOOD HEADERS, U.N.O.

14. WHEN NAILING IS NOT SHOWN IN PLANS, NAIL PER TABLE 2304.10.1 OF THE INTERNATIONAL BUILDING CODE

15. COORDINATE LAYOUT OF FRAMING MEMBERS WITH ALL TRADES TO ENSURE THAT JOISTS, RAFTERS, AND PLATES ARE NOT EXTENSIVELY NOTCHED, CUT, OR OTHERWISE DAMAGED. SEE RESIDENTIAL CODE, ICC-400 AND AISC MANUAL FOR ALLOWABLE CUTTING NOTCHING, AND BORING OF FRAMING MEMBERS. TRUSSES SHALL NOT BE CUT, NOTCHED, OR BORED WITHOUT ENGINEERS APPROVAL

16. ALL FIRE RETARDANT TREATED WOOD SHALL HAVE HOT-DIPPED ZINC GALVANIZED HARDWARE

POST-INSTALLED ANCHORS AND REINFORCING DOWELS (REBAR)

1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHEN SPECIFIED ON DRAWINGS. UNLESS APPROVED OTHERWISE IN WRITING BY THE STRUCTURAL ENGINEER OR RECORD, HOLES SHALL BE PREPARED AND ANCHORS SHALL BE INSTALLED FOLLOWING THE MANUFACTURER'S INSTALLATION INSTRUCTIONS

2. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. ANCHOR CAPACITY USED IN DESIGN SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED BY Hilti OR SUCH OTHER METHOD AS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD

3. INSTALL ANCHORS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING

4. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ON-SITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS

5. ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS

6. EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS, DO NOT DAMAGE EXISTING REINFORCING. THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND IMPLEMENT METHODS TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS BY GPR, X-RAY, CHIPPING OR OTHER MEANS

7. ANCHORAGE TO CONCRETE

7. ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:

A. SIMPSON STRONG-TIE SET-3C WITH ASTM F1554 GR 55 THREADED ROD (ICC ESR-2598)

B. Hilti HIT-HY 200 SAFE SET SYSTEM WITH HAS-E THREADED ROD OR THE Hilti HIT-200 (ICC ESR-3187)

C. Hilti HIT-RE 500 V3 SAFE SET SYSTEM WITH HAS-E THREADED ROD (ICC ESR-3184)

8. MEDIUM DUTY MECHANICAL ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:

A. Hilti KWIK-HUS-EZ AND KWIK-HUS-EZ-2 SCREW ANCHORS (ICC ESR-302)

B. Hilti KWIK BOLT-TZ EXPANSION ANCHORS (ICC ESR-1917)

C. Hilti KWIK BOLT-3 EXPANSION ANCHORS (UNCRACKED CONCRETE ONLY) (ICC ESR-2302)

D. SIMPSON STRONG-TIE STRONG BOLT-2 EXPANSION ANCHOR (ICC ESR-3037)

E. SIMPSON STRONG-TIE TITEN HD SCREW ANCHOR (ICC ESR-2713)

9. HEAVY DUTY MECHANICAL ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:

A. Hilti HSA UNDERCUT ANCHORS (ICC ESR-1546)

B. Hilti HSL-3 EXPANSION ANCHORS (ICC ESR-1545)

REBAR DOWELING INTO CONCRETE

10. ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:

A. Hilti HIT-HY 200 SAFE SET SYSTEM WITH CONTINUOUSLY DEFORMED REBAR (ICC ESR-3187)

B. Hilti HIT-HY 500 V3 SAFE SET SYSTEM WITH CONTINUOUSLY DEFORMED REBAR (ICC ESR-3184)

ANCHORAGE TO SOLID GROUTED MASONRY

11. ADHESIVE ANCHORS USE:

A. Hilti HIT-HY 270 MASONRY ADHESIVE ANCHORING SYSTEM (ICC ESR-4143)

B. STEEL ANCHOR ELEMENT SHALL BE Hilti HAS-E CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR AS SPECIFIED

12. MECHANICAL ANCHORS:

A. Hilti KWIK BOLT-3 EXPANSION ANCHORS (ICC ESR-1385)

ANCHORAGE TO HOLLOW MAULT-WYTHE UNGROUTED MASONRY

13. ADHESIVE ANCHORS USE:

A. Hilti HIT-HY 270 MASONRY ADHESIVE ANCHORING SYSTEM (ICC ESR-4143 & ICC ESR-4144)

B. STEEL ANCHOR ELEMENT SHALL BE Hilti HAS-E CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR

C. THE APPROPRIATE SIZE SCREEN TUBE SHALL BE USED PER ADHESIVE MANUFACTURER'S RECOMMENDATION

14. MECHANICAL ANCHORS: NONE APPROVED

15. EPOXY ANCHOR EMBEDMENT SCHEDULE (UNLESS NOTED OTHERWISE ON PLANS)

ANCHOR DIAMETER (REBAR) CONCRETE & GROUT FILLED CMU HOLLOW CMU MULT-WYTHE MASONRY

ANCHOR DIAMETER (REBAR)	CONCRETE & GROUT FILLED CMU	HOLLOW CMU	MULT-WYTHE MASONRY
1/2" (4)	4 1/2"	4 1/2"	4 1/2"
5/8" (6)	5 5/8"	2"	6"
3/4" (8)	6 3/4"	2"	6"
1" (10)	8"	NOT PERMITTED	NOT PERMITTED

SELF-LEVELING FILL

1. USE ARDEX K 15 SELF-LEVELING UNDERLAYMENT. COMPRESSIVE STRENGTH = 5,500 PSI. MIX AND APPLY PER MANUFACTURER'S INSTRUCTIONS

2. ARDEX K 15 CAN BE USED UP TO 1 1/2" WITHOUT ANY AGGREGATES IN THE MIX. FEATHER EDGE TO MATCH EXISTING. "ARDEX FEATHER FINISH" MAY ALSO BE USED LESS THAN 1/2" TO FEATHER THE EDGE

3. WHERE THE FILL THICKNESS EXCEEDS 1 1/2" ADD PER GRAVEL TO THE MIX AT A 1:1 RATIO WITH ARDEX K 15

4. PREP THE FLOOR BASED ON MANUFACTURER'S INSTRUCTIONS. CONCRETE FLOORS MUST BE SOUND, SOLID, CLEAN, AND FREE OF ALL OIL, GREASE, DIRT, CURING COMPOUNDS AND ANY SUBSTANCES THAT ACT AS A BOND BREAKER BEFORE PRIMING

5. APPLY A COMPATIBLE PRIMER, ARDEX P 51 OR MANUFACTURER SPECIFIED EQUIVALENT

6. MATCH ALL EXISTING SLAB JOINTS

SHOP DRAWING SUBMITTALS

1. SUBMIT NEWLY PREPARED INFORMATION DRAWN TO SCALE. INDICATE DEVIATIONS FROM CONTRACT DOCUMENTS. DO NOT REPRODUCE CONTRACT DOCUMENTS OR COPY STANDARD INFORMATION. DOCUMENTS REPRODUCED FROM FULLER GROUP, L.L.C. DOCUMENTS WITHOUT WRITTEN PERMISSION, WILL BE REJECTED. COMPLIANCE WITH SPECIFIED REQUIREMENTS REMAINS CONTRACTOR'S RESPONSIBILITY

2. ALLOW A MINIMUM OF 10 WORKING DAYS FOR SUBMITTAL REVIEWS

3. ELECTRONIC COPIES WILL BE ACCEPTED BUT WILL INCUR PRINTING CHARGES BILLED TO THE CLIENT

4. SHOP DRAWINGS SHALL BE RECEIVED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING TO ENGINEER. SHOP DRAWINGS NOT REVIEWED BY THE GENERAL CONTRACTOR MAY BE SUBJECT TO REJECTION

5. THE CONTRACT DOCUMENTS SHALL NOT BE SCALED FOR DETERMINING DIMENSIONS OR QUANTITIES. USE ONLY PRINTED DIMENSIONS. ANY SCALED DIMENSIONS SHALL ASK FOR VERIFICATION ON THE SHOP DRAWING REVIEW

6. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN. THE DETAILER SHALL REFER TO ARCHITECTURAL DRAWINGS FOR WALL, DOOR, AND WINDOW LOCATIONS. DIMENSIONS ON THE ARCHITECTURAL DRAWINGS SPECIFY DIMENSIONS SHOWN ON STRUCTURAL PLANS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES

7. PROVIDE THE FOLLOWING SUBMITTALS:

A. CONCRETE

1. CONCRETE MIX DESIGNS WITH SAMPLE LABORATORY TEST REPORTS PER ACI 318

2. CONCRETE ADMIXTURE PRODUCT DATA

3. REBAR SHOP DRAWINGS

4. CONCRETE SAMPLE CYLINDER BREAK RESULTS (7 DAYS, 28 DAYS)

UNIT MASONRY ASSEMBLIES

1. ALL CONCRETE MASONRY WORK SHALL CONFORM TO TMS 402/ACI 530/ASCE 5 LATEST EDITION, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" AND TMS 602/ACI 530.1, "MASONRY LATERAL RESISTANCE FOR MASONRY STRUCTURES"

2. AN INDEPENDENT TESTING AGENCY SHALL BE RETAINED BY THE OWNER TO PERFORM FIELD INSPECTION AND TESTING OF MASONRY CONSTRUCTION. TESTING AGENCY SHALL INSPECT PLACEMENT OF ALL REINFORCEMENT AS SHOWN OR DESCRIBED IN THE CONTRACT DOCUMENTS IN ACCORDANCE WITH ACI 530.1

3. CONCRETE MASONRY UNITS: SHALL MEET ASTM C 90, LIGHTWEIGHT (105 PCF MAX.) PROVIDE SPECIAL SHAPES FOR LINTELS, CORNERS, JAMBS, SASH, CONTROL JOINTS, AND OTHER SPECIAL CONDITIONS

4. PROVIDE MATERIALS TO ACHIEVE THE NET COMPRESSIVE STRENGTH OF CONTROL MASONRY EQUAL TO OR GREATER THAN $f_m = 2000$ PSI

5. MORTAR: COMPLY WITH ASTM C 270, PROPORTION SPECIFICATION: ALL MORTAR FOR CMU WORK SHALL BE TYPE S. DO NOT USE CALCIUM CHLORIDE IN MORTAR

6. GROUT: COMPLY WITH ASTM C476, PROPORTION SPECIFICATION, WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI. ALL CELLS AND BOND BEAMS CONTAINING REINFORCING BARS SHALL BE FILLED WITH GROUT. PLACE VERTICAL REINFORCING IN MASONRY CELLS AND SECURE IN PLACE PRIOR TO PLACEMENT OF GROUT. GROUT POUR HEIGHT SHALL NOT EXCEED 50 INCHES. WEBS OF HOLLOW UNITS CONTAINING VERTICAL REINFORCING SHALL BE FULLY MORTARED TO CONFINE GROUT DURING PLACEMENT

7. CONSTRUCT ALL MASONRY IN RUNNING BOND PATTERN WITH 3/8" JOINTS, UNLESS NOTED OTHERWISE. TOOL EXPOSED JOINTS CONCAVE

8. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60. LAP BARS AS FOLLOWS: #1 - 26", #5 - 32", #6 - 36", #7 - 40", #8 - 42", #9 - 44", #10 - 46", #11 - 48"

9. VERTICAL REINFORCEMENT: PROVIDE A MINIMUM OF #5 @ 48" IN 8" CMU WALLS, U.N.O. SECURE REINFORCEMENT WITH VERTICAL BAR POSITIONERS, "WIRE-BOND CORELOCK" SINGLE AND/OR DOUBLE REBAR POSITIONERS, OR EQUAL

10. HORIZONTAL REINFORCEMENT: PROVIDE 3 GAGE LADDER TYPE JOINT REINFORCEMENT FORMED FROM GALVANIZED CARBON-STEEL WIRE, ASTM A 153, CLASS B, FOR BOTH INTERIOR AND EXTERIOR WALLS. PROVIDE PREFABRICATED "T" AND "I" SECTIONS AT WALL INTERSECTIONS AND CORNERS. PROVIDE A MINIMUM 6" LAP. CUT OR INTERRUPT REINFORCING AT CONTROL JOINTS. INTERLOCK EVERY OTHER BLOCK AT CORNERS AND INTERSECTIONS. SPACE JOINT REINFORCEMENT AS FOLLOWS:

A. 8" O.C. BELOW GROUND AND RETAINING WALLS

B. 16" O.C. ABOVE GRADE

11. ADDITIONAL REINFORCEMENT: PROVIDE A MINIMUM OF 11#16s AT CORNERS, WITHIN 16" OF EACH SIDE OF OPENINGS, WITHIN 8" OF EACH SIDE OF CONTROL JOINTS AND WITHIN 8" OF THE ENDS OF WALLS

12. BOND BEAMS SHALL BE MINIMUM 8" DEEP AND HAVE (2) #4s CONTINUOUS AND REINFORCEMENT SHALL BE TURNED AND LAPPED AT ALL CORNERS AND INTERSECTIONS. PROVIDE BOND BEAMS AT THE FOLLOWING LOCATIONS:

A. WITHIN 8" OF TOP OF WALLS

B. FLOOR OR ROOF PLATES

C. ABOVE AND BELOW OPENINGS (SEE LINTEL SCHEDULE FOR ADDITIONAL INFORMATION)

13. PROVIDE VERTICAL CONTROL JOINTS PER NCMA RECOMMENDATIONS, 1.5 TO 1 PANEL SIZE RATIO, OR 24" MAXIMUM. DO NOT LOCATE CONTROL JOINTS WITHIN 2'-0" OF AN OPENING. BOND BEAMS AT TOPS OF WALLS AND FLOOR LEVELS SHALL BE CONTINUOUS THROUGH THE CONTROL JOINT

14. PROVIDE TIES TO STEEL COLUMNS AT 16" O.C. FOR ALL COLUMNS ADJACENT TO MASONRY WALLS

15. PROVIDE DOWELTIE EMBED AND TIES AT 16" O.C. WHERE MASONRY WALLS TERMINATE AT CAST-IN-PLACE CONCRETE

16. MASONRY SHALL BE PROTECTED FROM FREEZING DURING PLACEMENT AND CURING. COLD WEATHER MASONRY PROCEDURES SHALL COMPLY WITH ACI 308 AND ACI 530.1

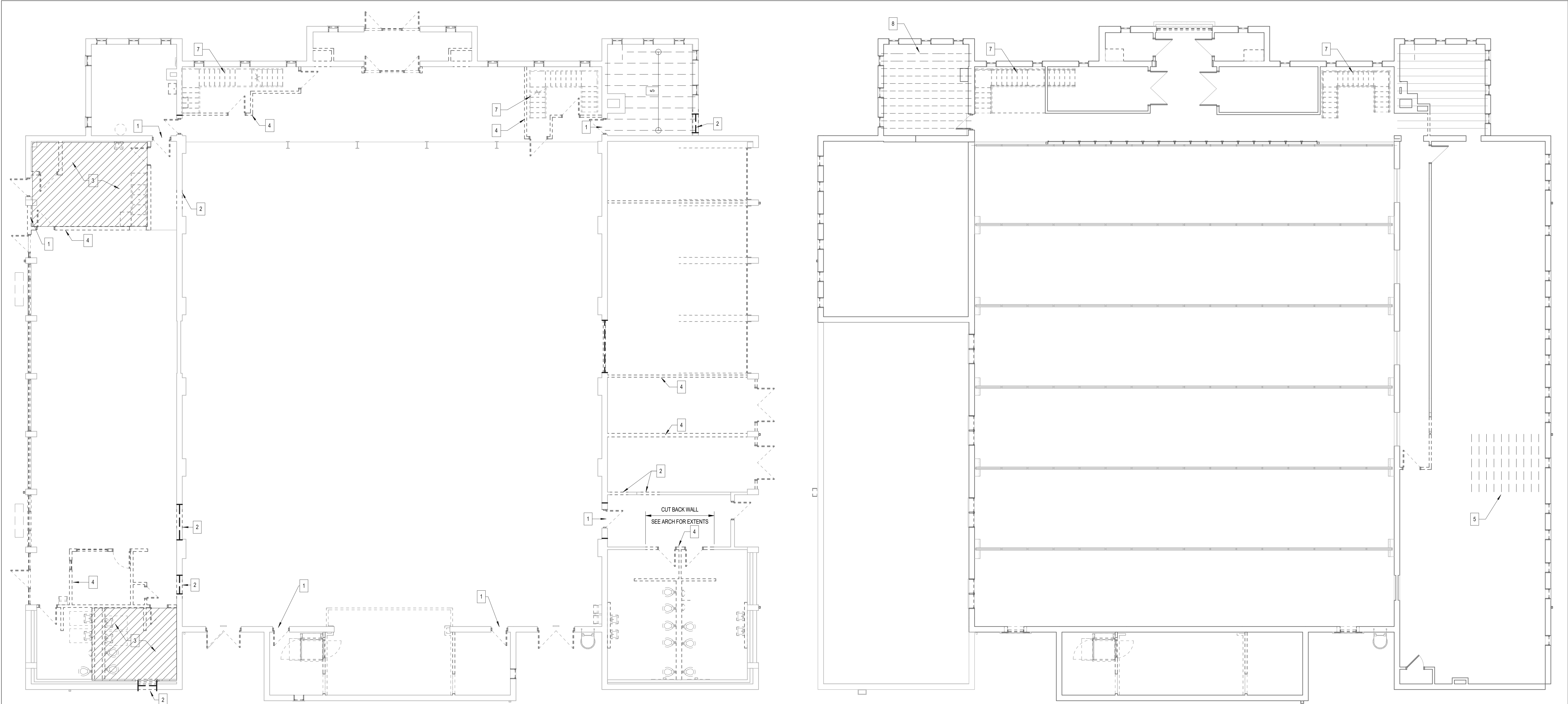
DESIGN LOAD CRITERIA		
This analysis is made utilizing the 2018 North Carolina Building Code (IRC 2015 amended).		
ROOF DESIGN LOADS		
Dead Load		20 psf
Live Load		20 psf
FLOOR DESIGN LOADS		
Dead Load		20 psf
Elevated Floor Live Load		100 psf
SNOW LOADS		
Ground Snow Load, P _g		15 psf
Exposure Factor, C _e		1.0
Thermal Factor, C _t		1.0
Importance Factor, I _h		1.0
Slope Factor, C _s		1.0
WIND LOADS		
Basic Design Wind Speed, V		115 mph
Allowable Stress Design Wind Speed, V _{ad}		89.1 mph
Wind Exposure		C
Internal Pressure Coefficient		+ .18, - .18
Risk Category		II
Height & Exposure Adjustment, A		1.0
Wind Directionality Factor, K _d		0.85
Topographic Factor, K _{zt}		1.0
ULTIMATE WIND PRESSURES		
COMPONENTS AND CLADDING		
ROOF (AREA = 100 SF)		
16 psf	Zone 1 & 2e -25.7 psf	Zone 2n, 2r & 3e -30.5 psf
16 psf	Zone 3r -30.5 psf	Zone 1' -30.5 psf
OVERHANG (AREA = 100 SF)		
16 psf	Zone 1 & 2e -25.7 psf	Zone 2n & 2r -30.5 psf
16 psf	Zone 3e -30.5 psf	Zone 3r -30.5 psf
WALL (AREA = 20 SF)		
Zone 4		
26.8 psf	-29.2 psf	26.8 psf
26.8 psf	-35.2 psf	26.8 psf
SEISMIC LOADS		
Importance Factor, I _s		1.0
Risk Category		II
Site Class		0.111 g
S ₁ (Mapped)		0.325 g
S ₂ (Mapped)		0.111 g
S _{0.5}		0.334 g
S _{0.1}		0.174 g
Design Category		C

These modifications do not effect the seismic forces on any existing element by more than 10% per ASCE 7-10, Appendix 11B, Section 11B.4 Alterations.

REBAR LAP SPICE SCHEDULE

FOR CONCRETE APPLICATIONS (ACI 318)

FACE OF JOINT OR CRITICAL SECTION		FACE OF JOINT OR CRITICAL SECTION		COUPLER OR WELDED SPICE	
DEVELOPMENT LENGTH		LAP SPICE LENGTH		HOOK DEVELOPMENT LENGTH	
BAR SIZE		f _c = 5000 psi		f _c = 5000 psi	
MISC BARS (SEE NOTE 3)		Ld	17 22 28 33 38 43 48 55 62 70 78	Ld	13 17 22 28 33 38 43 48 54 61 67
TOP BARS (SEE NOTE 3)		Splice	22 29 37 43 63 72 81 91 102	Splice	17 23 29 34 50 56 63 71 78
HOOKED BARS		Ldh	6 8 10 12 14 16 20 24 28	Ldh	6 6 8 10 12 15 18 21 25

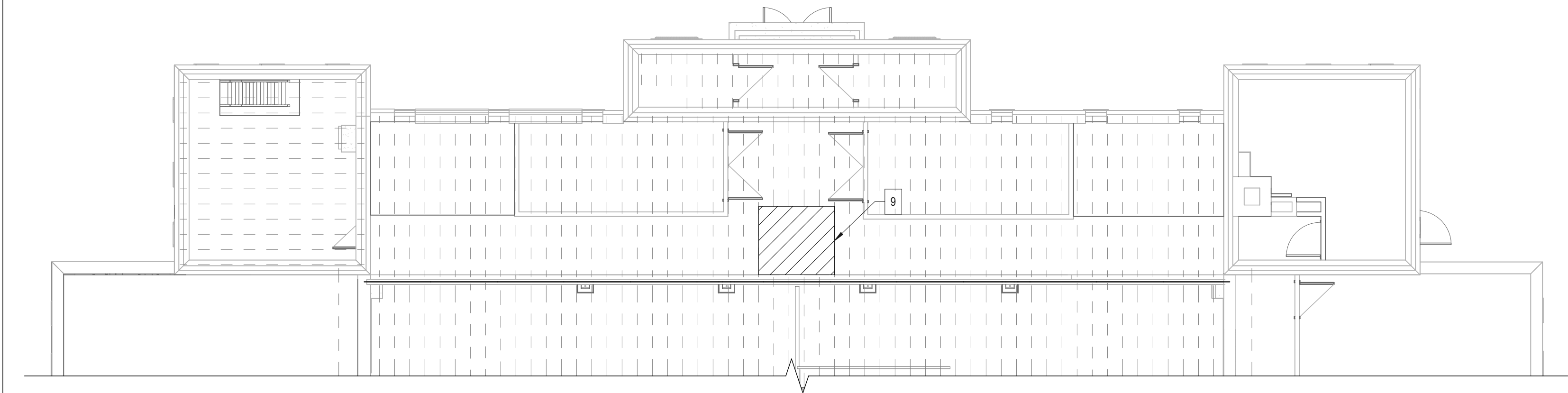


1
S100
1/8" = 1'-0"

MAIN LEVEL DEMO PLAN

2
S100
1/8" = 1'-0"

UPPER LEVEL DEMO PLAN



3
S100
1/8" = 1'-0"

ROOF DEMO PLAN

DEMOLITION NOTES

1. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR THE METHODS, TECHNIQUES AND SEQUENCES OF PROCEDURES TO PERFORM THE WORK. THE SUPERVISION OF THE WORK IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
2. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION NOT SHOWN.
3. THE STRUCTURAL DRAWINGS ARE INTENDED TO SHOW ONLY THE GENERAL EXISTING BUILDING CONSTRUCTION WITHIN THE AREA OF DEMOLITION. THE DRAWINGS DO NOT SHOW ALL FRAMING MEMBERS, INCIDENTAL FRAMING, WALLS, QUANTITIES, SIZES, OBSTRUCTIONS, ETC., AND ARE NOT INTENDED TO BE USED BY THE CONTRACTOR TO DEFINE THE COMPLETE SCOPE OF DEMOLITION. THE CONTRACTOR MUST FIELD VERIFY THE ACTUAL BUILDING CONDITIONS TO DEFINE ALL ELEMENTS WITHIN THE SCOPE OF DEMOLITION.
4. THE EXTENT OF WORK SHOWN SHALL INCLUDE REMOVAL AND DISPOSAL, OFF SITE, OF THE BUILDING STRUCTURE, FOUNDATIONS, SUPPORTING WALLS, AND SLABS-ON-GRADE.
5. CONFORM TO ALL APPLICABLE CODES FOR DEMOLITION OF STRUCTURES, SAFETY OF ADJACENT STRUCTURES, DUST CONTROL, RUN-OFF CONTROL, DISPOSAL, AND ALL ITEMS NECESSARY TO COMPLETE THE WORK.
6. THE EXISTING STRUCTURE TO REMAIN IS TO BE SHORED AS REQUIRED UNTIL THE SUPPORTING ELEMENTS ARE INSTALLED AS SHOWN ON THE DRAWING.
7. THE DEMOLISHED STRUCTURE SHALL BE REDUCED TO PIECES OF A WEIGHT, AND TRANSPORTED ACROSS THE REMAINING STRUCTURE IN A MANNER, SUCH THAT THE REMAINING STRUCTURE IS NOT OVERSTRESSED.
8. CONTRACTOR SHALL SUBMIT A PROPOSED DECONSTRUCTION SEQUENCE TO THE OWNER AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO COMMENCEMENT OF WORK.
9. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND ERECTION OF ALL SHORING NECESSARY TO SAFEGUARD THE EXISTING STRUCTURE. THE CONTRACTOR SHALL SUBMIT A DETAILED PLAN FOR SHORING, BRACING, AND PROTECTION OF THE EXISTING CONSTRUCTION. THE PLAN SHALL INCLUDE, AT A MINIMUM, A CONSTRUCTION SEQUENCE, BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT STATE, AND SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO BEGINNING THE WORK.

DEMOLITION SCHEDULE

MARK	DESCRIPTION
1	ENLARGE OPENING IN EXISTING WALL - SEE ARCH. PLANS
2	NEW OPENING IN EXISTING WALL
3	REMOVE SLAB AS REQ'D FOR NEW PLUMBING FIXTURES
4	REMOVE NON-LOAD BEARING WALLS - SEE ARCH. DEMO PLAN
5	REMOVE FLOOR JOISTS
6	REMOVE EXISTING CHIMNEY
7	REMOVE EXISTING STAIR
8	REMOVE PORTION OF FLOOR JOIST FOR HEADER AT FLOOR OPENING
9	REMOVE ROOF JOISTS

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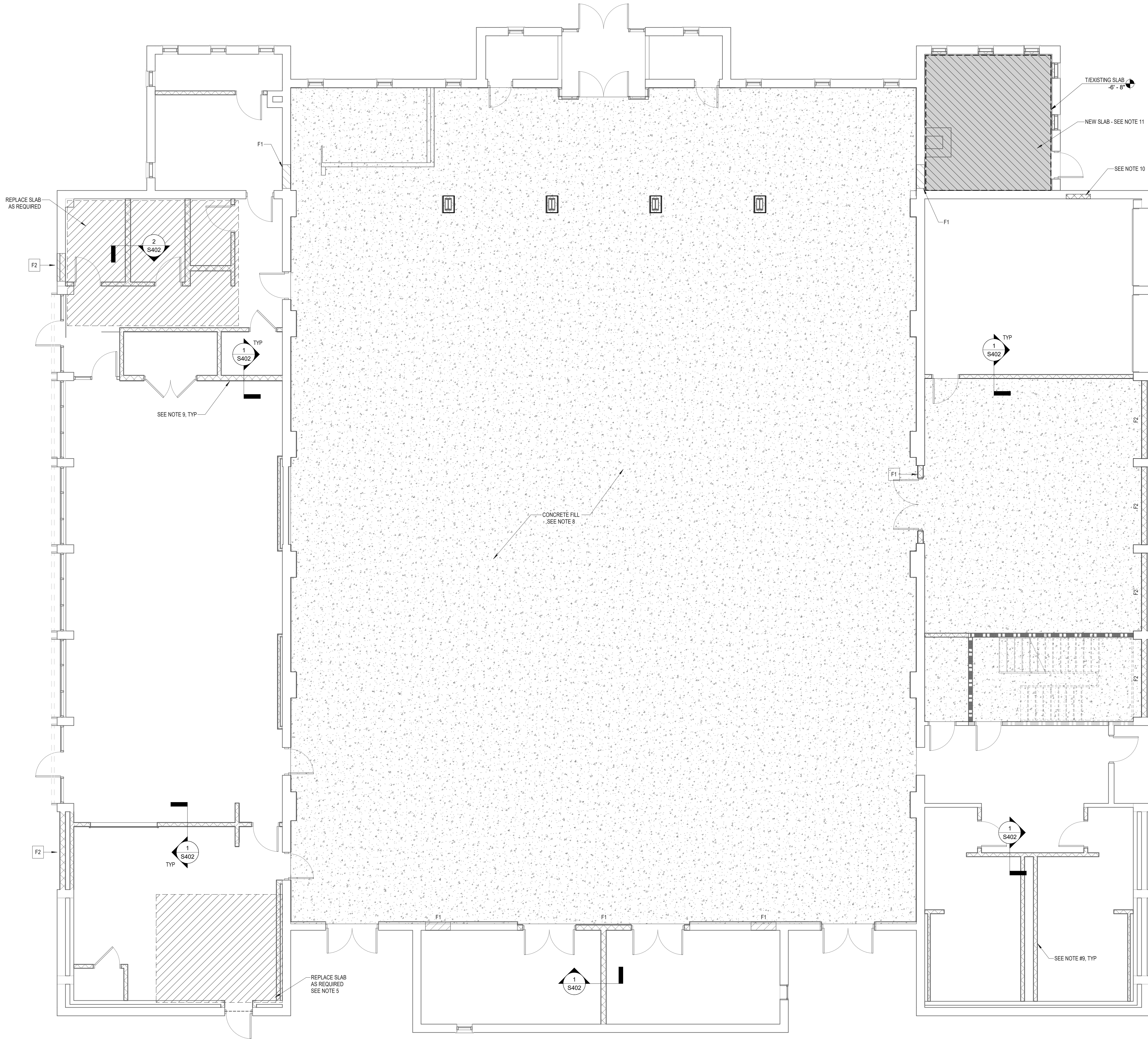
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DATE	MARK	DESCRIPTION
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DEMOLITION PLAN

S100



WALL FILL SCHEDULE	
MARK	DESCRIPTION
F1	FILL EXISTING OPENING WITH 8" CMU REINFORCED WITH #5 @ 48" O.C. DRILL & DOWEL #4 INTO FOOTING OR WALL WITH HILTI HIT-HY200 ADHESIVE ANCHOR (6" EMBED) @ TOP & BOTTOM. IF LINTEL IS STEEL, WELD REBAR TO LINTEL W/ 3/16" FILLET WELD ALL AROUND. DO NOT CUT JAMB.
F2	FILL EXISTING OPENING WITH 8" CMU REINFORCED WITH #5 @ 24" O.C. GROUT ALL CELLS SOLID. DRILL & DOWEL #4 INTO FOOTING OR WALL WITH HILTI HIT-HY200 ADHESIVE ANCHOR (6" EMBED) @ TOP & BOTTOM. IF LINTEL IS STEEL, WELD REBAR TO LINTEL W/ 3/16" FILLET WELD ALL AROUND. DO NOT CUT JAMB.

LEGEND	
XX	FOOTING TYPE AND FOOTING
XX	ELEVATION - SEE SCHEDULE

- FOUNDATION PLAN NOTES
- SEE SHEET S001 FOR GENERAL NOTES & DESIGN CRITERIA.
 - ELEVATIONS GIVEN ARE SET FROM REFERENCE ELEVATION. REFERENCE ELEVATION (+0'-0") IS SET AT FINISHED FLOOR ELEV. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
 - REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND DRAWINGS OF OTHER DISCIPLINES FOR LOCATIONS AND DIMENSIONS OF OPENINGS, DEPRESSIONS, AND OTHER NON-STRUCTURAL ITEMS.
 - ELEVATOR PIT ELEVATION AND RAIL SUPPORT POST SIZES AND LOCATIONS TO BE CONFIRMED UPON RECEIPT OF FINAL ELEVATOR SHOP DRAWING SUBMITTAL.
 - PROVIDE NEW 4" SLAB W/ 6x6 - W1.4xW1.4 WWF OVER 10 MIL VAPOR BARRIER. MATCH EXISTING TOP OF SLAB. PROVIDE DOWELS PER AS401 AT PERIMETER. REFER TO ARCHITECTURAL AND PLUMBING FOR EXTENTS OF NEW SLAB.
 - PROVIDE (2) #3x3'-0" IN TOP OF SLAB @ ALL RE-ENTRANT CORNERS NOT INTERSECTING A SLAB JOINT.
 - REFER TO DETAIL BIS401 FOR FOUNDATION AT NEW CMU NON-LOAD BEARING WALL.
 - PROVIDE NEW CONCRETE SLAB OVER EXISTING DEPRESSED FLOOR WITH 6x6-W1.4xW1.4 WWF. CLEAN EXISTING SLAB FROM ANY GREASE OR OILS. REMOVE UNSOUND CONCRETE. MINIMUM THICKNESS = 2". MATCH SLAB JOINTS FROM THE LOWER SLAB.
 - AT NEW MASONRY WALLS PROVIDE VERTICAL #5 BARS @ 48" O.C. MAX. REFER TO DETAIL G / S401
 - REPAIR MORTAR JOINTS AND DAMAGED BRICK AT EXISTING WALL CRACK. SEE DETAIL D / S401 & E / S401
 - PROVIDE NEW 4" SLAB W/ 6x6-W1.4xW1.4 WWF. OVER 10 MIL VAPOR BARRIER. OVER GRAVEL. WEEP HOLES TO BE ADDED IN BASEMENT.

NOTE:
CONTRACTOR TO VERIFY ALL DIMENSIONS AND
EXISTING CONDITIONS AND REPORT ANY
DISCREPANCIES TO THE ARCHITECT AND STRUCTURAL
ENGINEER PRIOR TO CONSTRUCTION

1
S101
3/16" = 1'-0"

FOUNDATION PLAN

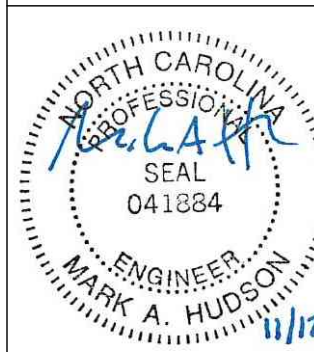
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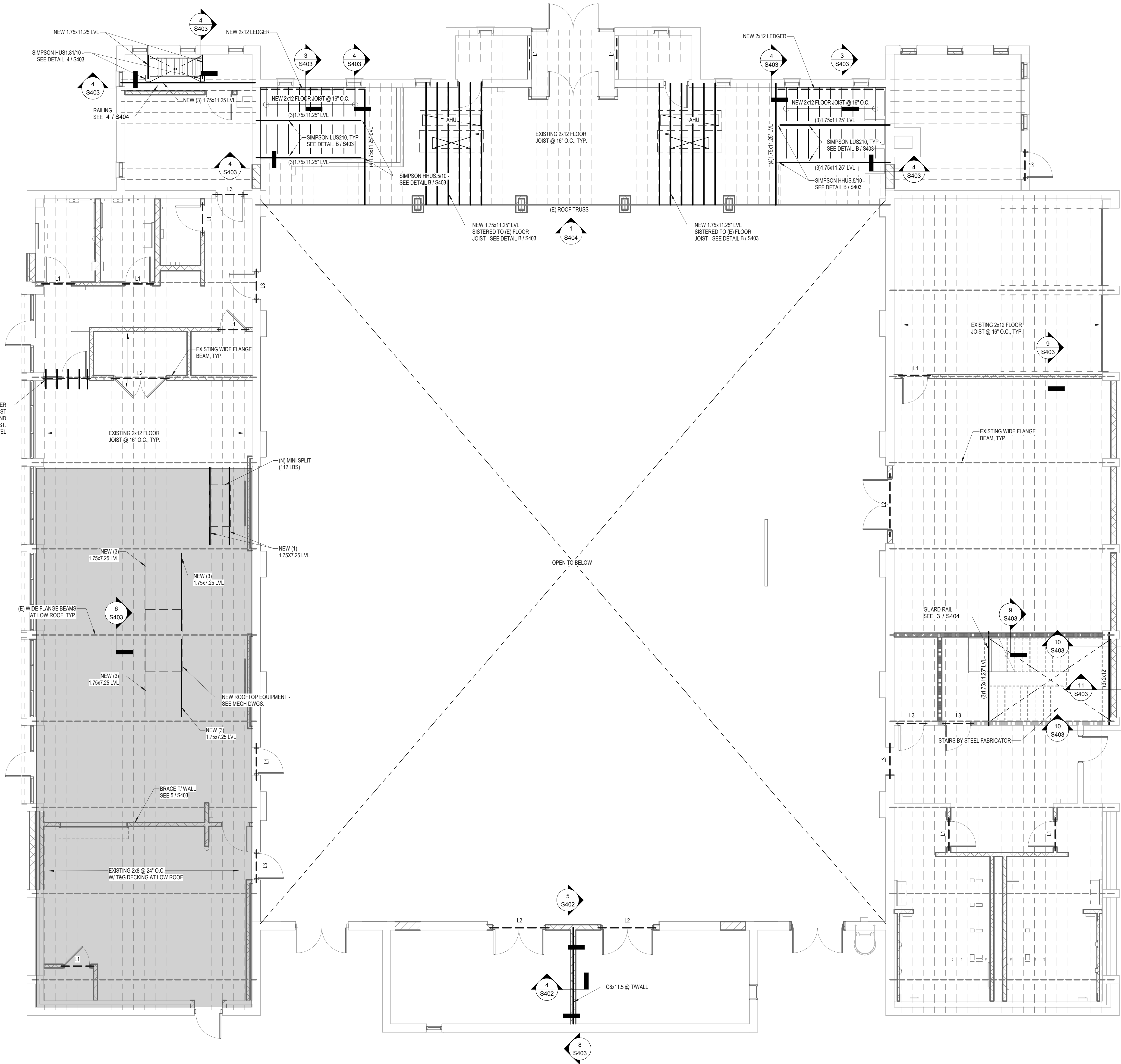
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DATE MARK DESCRIPTION

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SECOND FLOOR AND
LOW ROOF FRAMING
PLAN

S201



CMU / STEEL LINTEL SCHEDULE			
MARK	DESCRIPTION	CONFIGURATION	REMARKS
L1	8" DEEP BOND BEAM W/ (2) #4 CONT. & 8" MIN. BEARING EACH END.		
L2	16" DEEP BOND BEAM W/ (2) #4 CONT. & 8" MIN. BEARING EACH END.		
L3	16x12 EACH SIDE OF WALL W/ PLATE 12"xWALL WIDTHx CONT 8" MIN. BEARING EACH END		PLATE SHALL BE CONT. TO EDGE OF OPENING. SEE DETAIL.

- ROOF FRAMING PLAN NOTES:
- SEE SHEET S001 FOR GENERAL NOTES & DESIGN CRITERIA.
 - FINISHED FLOOR ELEVATION SHALL BE +13'-2" AT SECOND LEVEL U N O. ELEVATIONS GIVEN ARE FROM REFERENCE ELEVATION. REFERENCE ELEVATION (+0'-0") IS SET AT LEVEL 1 FINISHED FLOOR ELEV. SEE CIVIL DRAWINGS.
 - WHERE SHOWN, RTU LOCATIONS ARE APPROXIMATE AND SHALL BE COORDINATED W/ MECH. DRAWINGS. WEIGHTS & LOCATIONS SHOWN ARE BASED ON THE LATEST MECHANICAL INFORMATION AT TIME OF SUBMITTAL. REPORT ANY DISCREPANCIES TO ARCHITECT AND ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
 - REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND DRAWINGS OF OTHER DISCIPLINES FOR LOCATIONS, DIMENSIONS OF OPENINGS, AND OTHER NON-STRUCTURAL ITEMS. SEE DETAIL A / S403 FOR TYPICAL FRAMING @ ROOF OPENINGS.
 - REPAIR MORTAR JOINTS AND DAMAGED BRICK AT EXISTING WALL CRACK. SEE DETAIL D / S401 & E / S401

NOTE:
CONTRACTOR TO VERIFY ALL DIMENSIONS AND
EXISTING CONDITIONS AND REPORT ANY
DISCREPANCIES TO THE ARCHITECT AND STRUCTURAL
ENGINEER PRIOR TO CONSTRUCTION

1
S201
3/16" = 1'-0"

SECOND FLOOR AND LOW ROOF FRAMING PLAN

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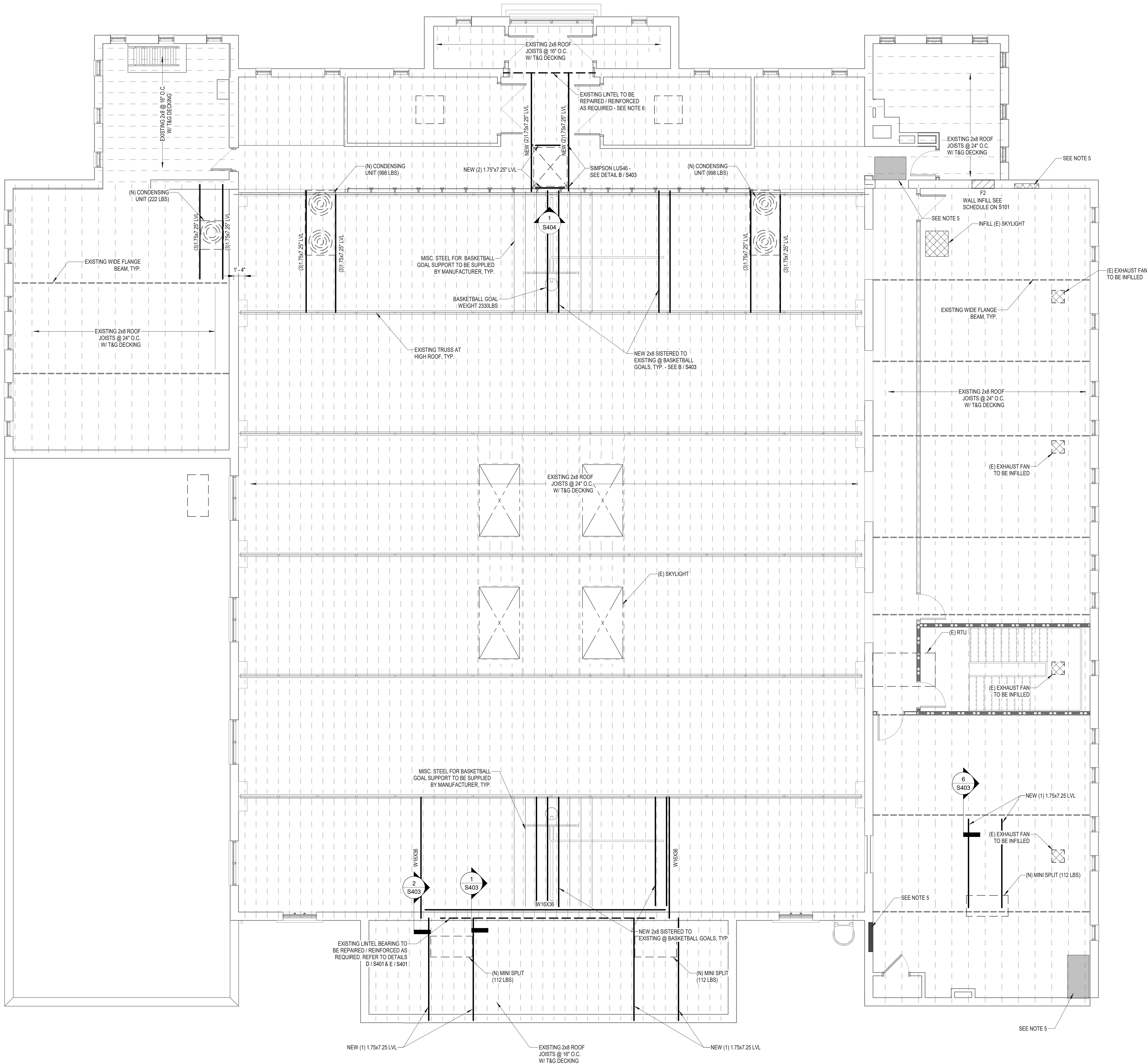
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ROOF FRAMING PLAN

S301



LEGEND
77-77 JOIST BEARING ELEVATION - SEE PLAN
HH HEADER - SEE SCHEDULE THIS SHEET
77 BEARING PL - SEE SCHEDULE

ROOF FRAMING PLAN NOTES:

- SEE SHEET S001 FOR GENERAL NOTES & DESIGN CRITERIA.
- ELEVATIONS ARE SET FROM THE REFERENCE ELEVATION AT LEVEL 1.
- REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND DRAWINGS OF OTHER DISCIPLINES FOR LOCATIONS AND DIMENSIONS OF OPENINGS, DEPRESSIONS, AND OTHER NON-STRUCTURAL ITEMS. SEE DETAIL A / S403 FOR TYPICAL FRAMING AT ROOF OPENINGS.
- REPLACE ROTTING DECK WITH NEW ROOF OR FLOOR SHEATHING. NOTIFY THE EOR IF ADDITIONAL DAMAGE IS OBSERVED DURING REPAIRS.
- REPAIR MORTAR JOINTS AND DAMAGED BRICK AT EXISTING WALL CRACK. SEE DETAIL D / S401 & E / S401.
- INSPECTED THE BEAM AT 4 POINTS ALONG THE LENGTH, INCLUDING AT BEARING. IF MORE THAN 10% OF THE ORIGINAL THICKNESS HAS BEEN LOST, THEN NOTIFY THE ENGINEER FOR REINFORCING DETAILS.

NOTE:
CONTRACTOR TO VERIFY ALL DIMENSIONS AND
EXISTING CONDITIONS AND REPORT ANY
DISCREPANCIES TO THE ARCHITECT AND STRUCTURAL
ENGINEER PRIOR TO CONSTRUCTION

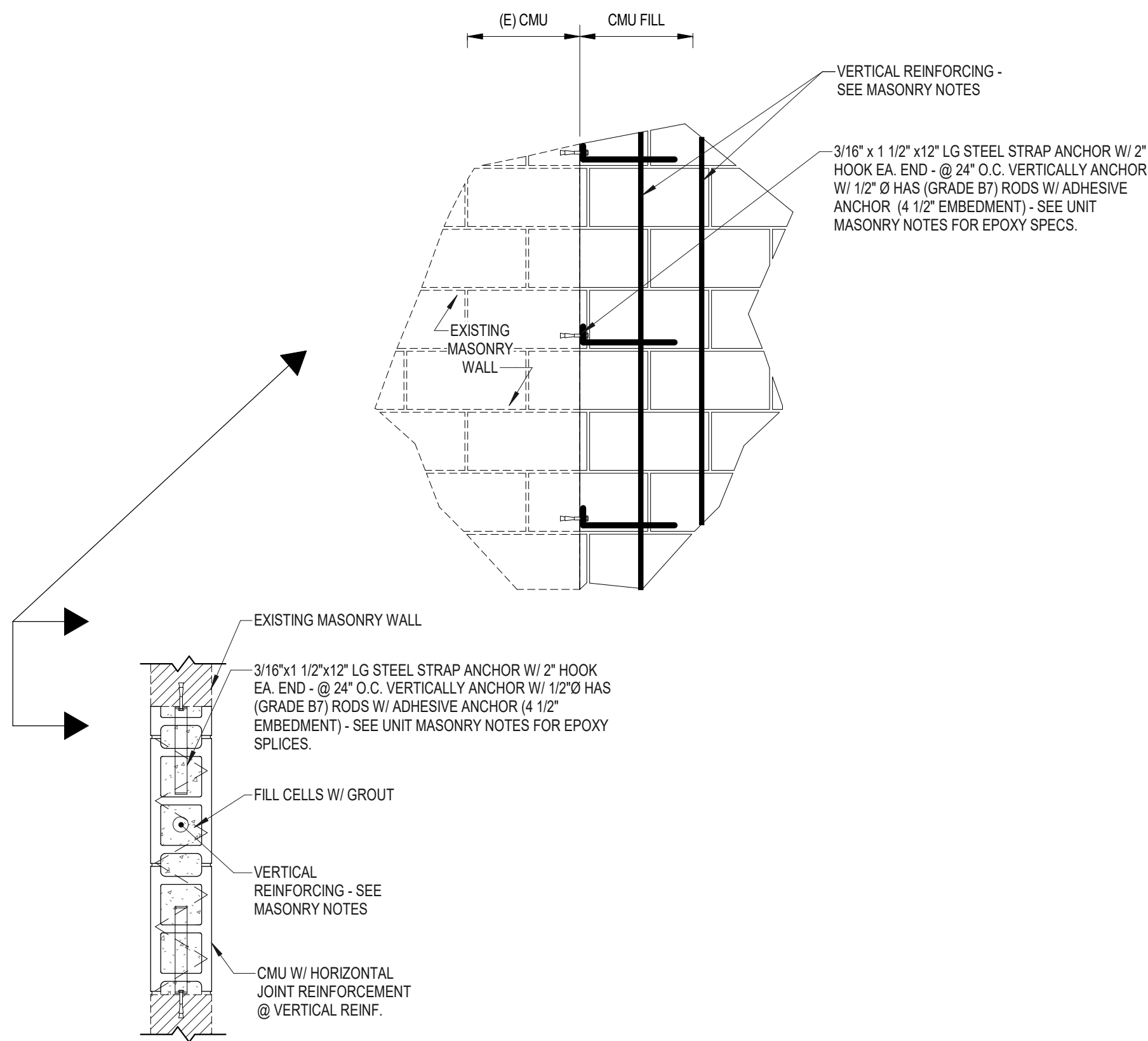
ROOF FRAMING PLAN

1
S301
3/16" = 1'-0"

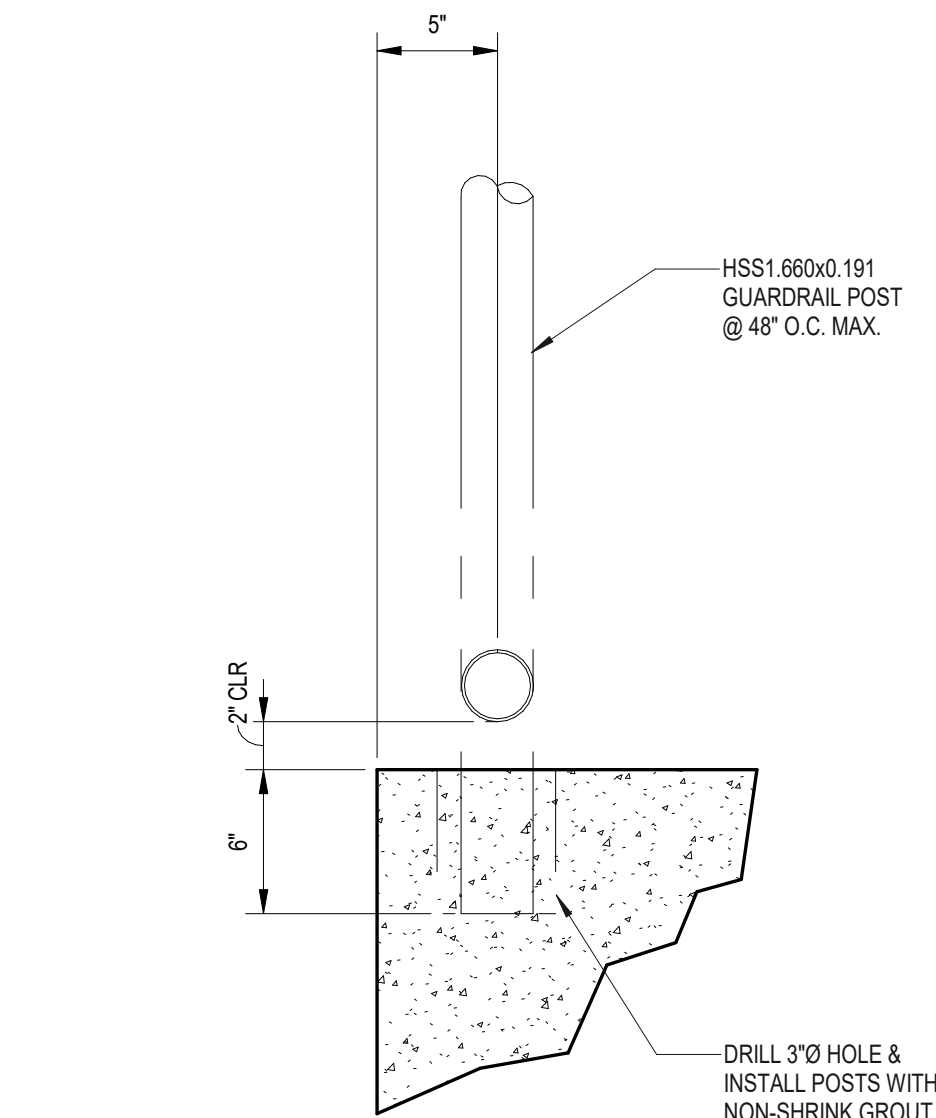
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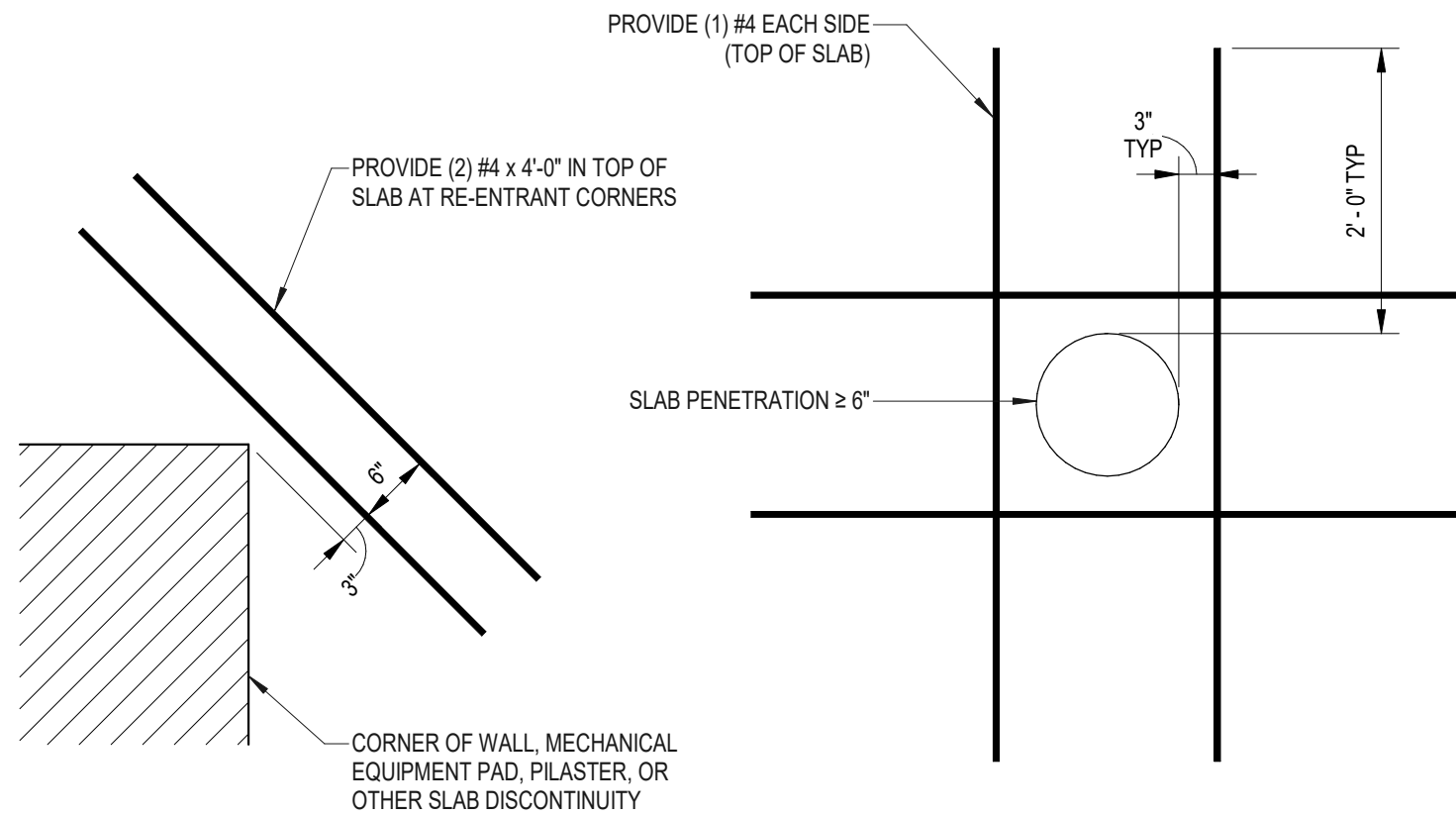
1
S401 (N) RAMP TO (E) SLAB
3/4" = 1'-0"



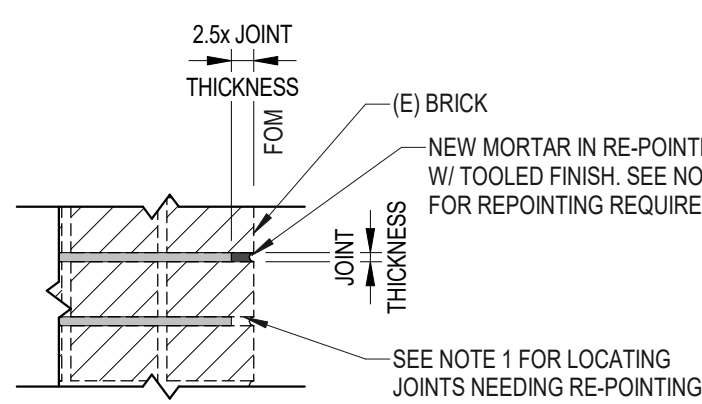
C
S401 CONNECTION TO EXISTING MASONRY
3/4" = 1'-0"



F
S401 GUARDRAIL EMBED DETAIL
1 1/2" = 1'-0"



A
S401 SLAB-ON-GRADE REINFORCING
3/4" = 1'-0"

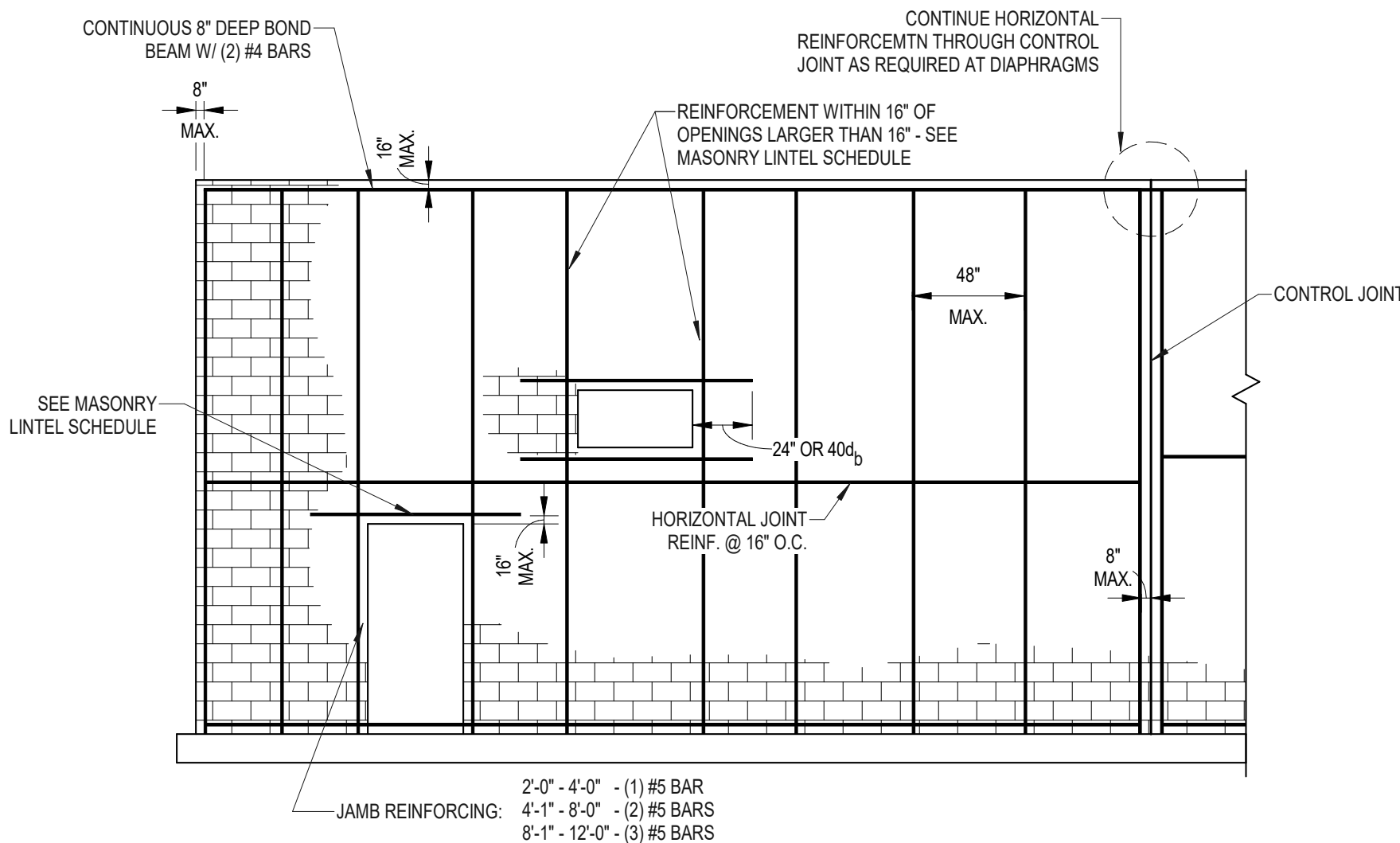


D
S401 REPOINTING OF (E) BRICK MASONRY
1 1/2" = 1'-0"

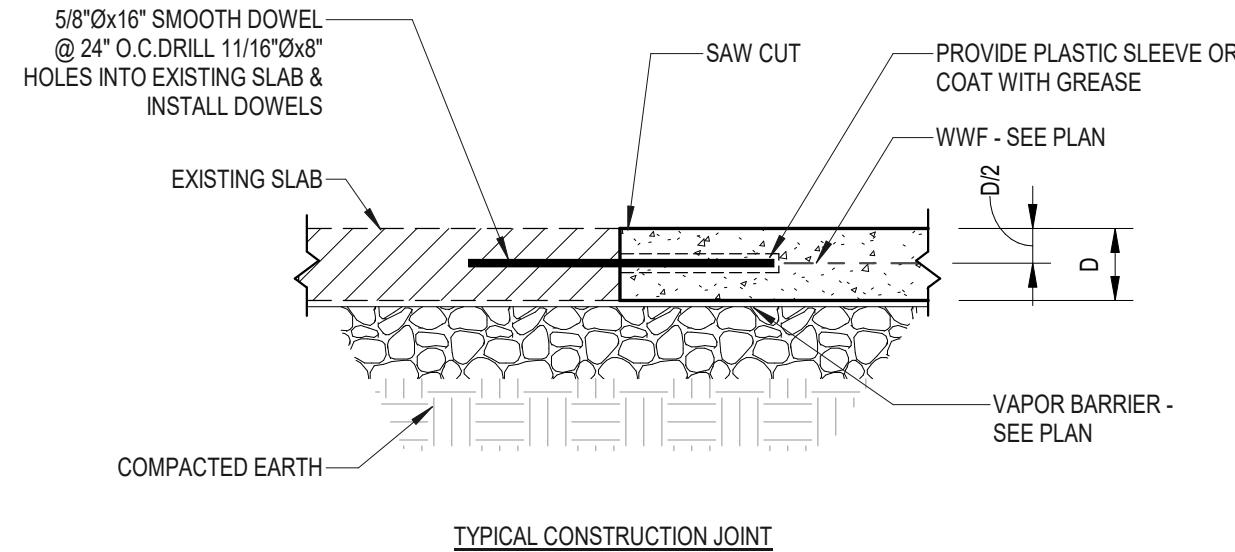
VERTICAL REINFORCEMENT: ONE NO. 5 BAR AT EACH CORNER, WITHIN 16 INCHES OF EACH SIDE OF OPENINGS, WITHIN 8 INCHES OF EACH SIDE OF CONTROL JOINTS, WITHIN 8 INCHES OF THE ENDS OF WALLS, AND AT A MAXIMUM SPACING OF 48 INCHES.

HORIZONTAL REINFORCEMENT: PROVIDE 3 GAGE LADDER TYPE JOINT REINFORCEMENT SPACED NOT MORE THAN 16 INCHES ON CENTER. HORIZONTAL REINFORCEMENT SHALL ALSO BE PROVIDED AT THE BOTTOM AND TOP OF WALL OPENINGS. SUCH REINFORCEMENT SHALL EXTEND AT LEAST 24 INCHES OR 40 BAR DIAMETERS, WHICHEVER IS GREATER, PAST THE OPENING. STRUCTURAL REINFORCEMENT LOCATED AT ROOF AND FLOOR LEVELS IS REQUIRED TO BE CONTINUOUS. THE HORIZONTAL REINFORCING BAR LOCATED CLOSEST TO THE TOP OF THE WALL SHALL BE PLACED WITHIN 16 INCHES OF THE TOP OF THE WALL.

NEITHER HORIZONTAL NOR VERTICAL PRESCRIPTIVE REINFORCEMENT IS REQUIRED FOR OPENINGS SMALLER THAN 16 INCHES IN EITHER THE HORIZONTAL OR VERTICAL DIRECTION, UNLESS THE REQUIRED PRESCRIPTIVE REINFORCEMENT IS INTERRUPTED BY SUCH OPENINGS.



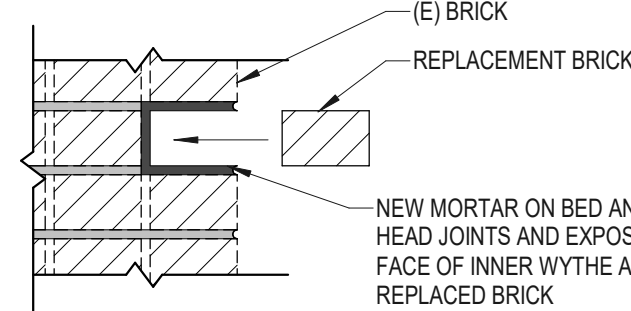
G
S401 TYPICAL MASONRY WALL REINFORCING
3/16" = 1'-0"



B
S401 TYPICAL JOINT AT (E) SLAB
3/4" = 1'-0"

REPORTING NOTES

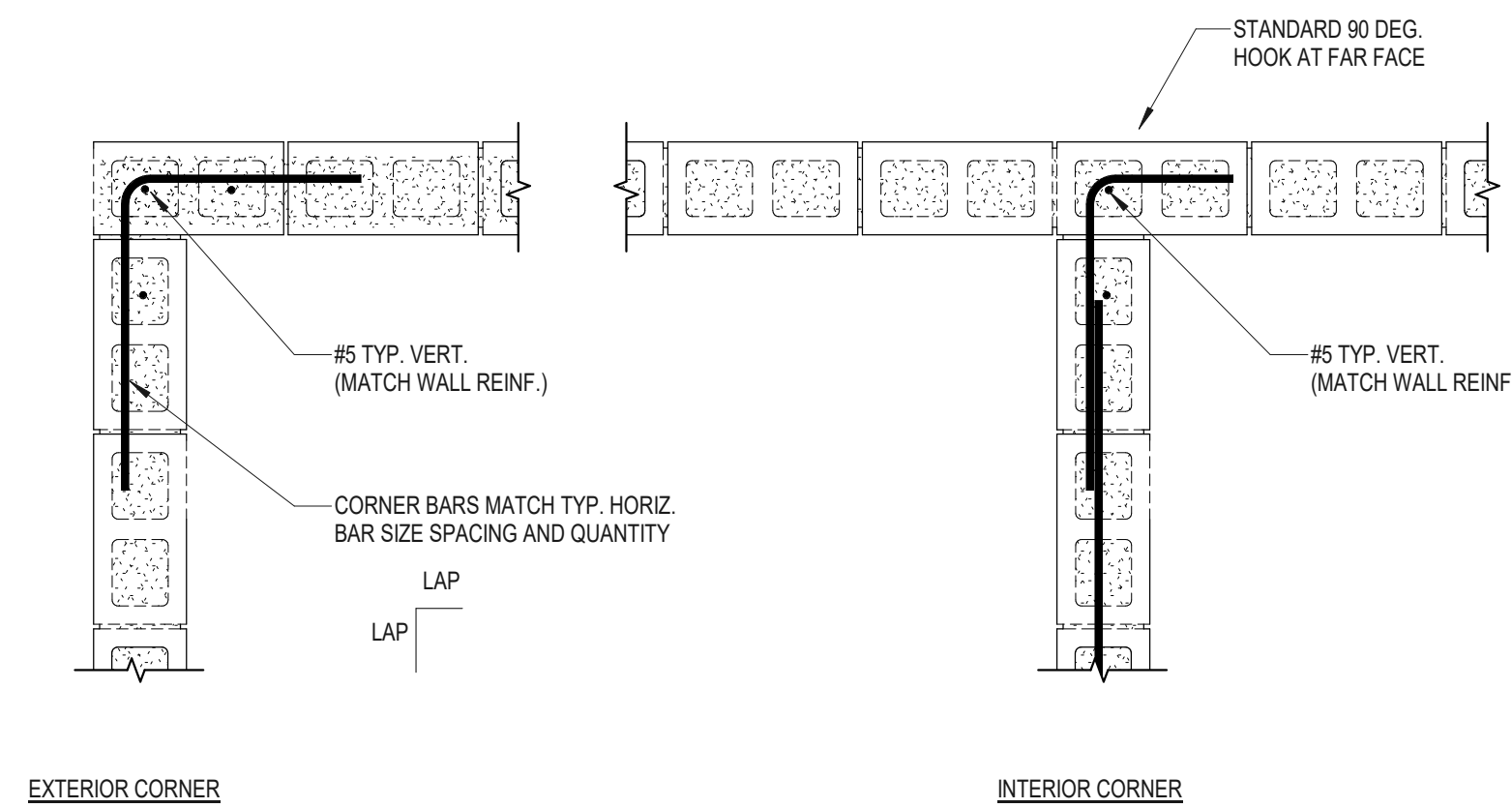
- MORTAR JOINTS EXHIBITING THE FOLLOWING DEFICIENCIES SHALL BE RAKED OUT AND REPOINTED:
 - JOINTS WITH HOLES
 - MORTAR IS RECESSED MORE THAN 1/2" FROM FACE OF BRICK ON EXTERIOR FACE OF BUILDING
 - MORTAR CRUMBLES WHEN POKED WITH FINGER OR SCREWDRIVER
 - CRACKS THAT CAN BE PENETRATED 1/4" OR MORE BY A 0.02" THICK KNIFE BLADE
 - CRACKS 1/16" OR MORE IN WIDTH AND OF ANY DEPTH
 - FOLLOW-ROUNDING JOINTS WHEN TAPPED BY METAL OBJECT
 - JOINTS FILLED WITH SUBSTANCES OTHER THAN MORTAR
 - WHERE INDICATED IN ELEVATIONS ON S600
- MORTAR JOINTS TO BE REPOINTED SHOULD INCLUDE HEAD AND BED JOINTS.
- MORTAR MIX SHALL BE SUBMITTED TO EOR AND ARCHITECT FOR APPROVAL AND BE SELECTED BASED ON ESTABLISHED EXISTING PROPERTIES. APPROVED MORTAR MATERIAL SHALL BE PROPORTIONED IN COMPLIANCE W/ TYPE "O" MORTAR SPECIFICATIONS, AND BE COMPATIBLE W/ (E) BRICK PROPERTIES INCLUDING COLOR, TEXTURE, MATERIAL COMPOSITION, AGGREGATE COLOR, AND AGGREGATE GRADATION.
- AT JOINTS TO BE REPOINTED, REMOVE MORTAR FROM JOINTS TO A DEPTH OF 2 1/2 TIMES THE THICKNESS OF THE JOINT, BUT NOT LESS THAN REQUIRED TO REACH SECOND, UNWEATHERED MORTAR. IF REMOVAL OF MORTAR MORE THAN 2" FROM FACE OF WALL IS REQUIRED, NOTIFY ARCHITECT AND EOR.
- REMOVE MORTAR FROM BRICK AND OTHER MASONRY SURFACES WITHIN RAKED-OUT JOINTS TO PROVIDE REVEALS WITH SQUARE BACKS AND TO EXPOSE MASONRY FOR CONTACT WITH POINTING MORTAR. BRUSH, VACUUM, OR FLUSH JOINTS TO REMOVE DIRT AND LOOSE DEBRIS.
- DO NOT SPALL EDGES OF BRICK OR OTHER MASONRY UNITS OR WIDEN JOINTS. REPLACE OR PATCH DAMAGED BRICKS AS REQUIRED B/S601.
- REFER TO PROJECT SPECIFICATIONS SECTION 04-01-20.64 BRICK MASONRY REPOINTING FOR ADDITIONAL REQUIREMENTS.



BRICK REPLACEMENT NOTES

- BRICK EXHIBITING THE FOLLOWING DEFICIENCIES SHALL BE REMOVED AND REPLACED:
 - POWDERING OF SURFACE WHEN RUBBED WITH HAND OR SCRAPED WITH FINGER NAIL
 - SPALLING IN LAYERS WHEN RUBBED WITH HAND
 - CAN BE BROKEN BY POKING OR JABBING WITH SCREWDRIVER
 - IMPRESSION LEFT WHEN JABBING WITH SCREWDRIVER
 - BRICK OBSERVED TO BE "SOFT" IN COMPARISON TO ADJACENT UNITS
 - CRACKS THROUGH UNIT
 - WHERE INDICATED IN ELEVATIONS ON S600
- REPLACEMENT BRICK SHALL BE SELECTED BASED ON COMPATIBILITY W/ (E) BRICK PROPERTIES INCLUDING COLOR, TEXTURE, AND DIMENSIONS. REPLACEMENT BRICK SHALL BE SUBMITTED TO ARCHITECT FOR APPROVAL. REPLACEMENT BRICK SHALL NOT EXHIBIT THE DEFICIENCIES LISTED ABOVE.
- REFER TO PROJECT SPECIFICATIONS SECTION 04-01-20.63-BRICK MASONRY REPAIR FOR ADDITIONAL REQUIREMENTS.

E
S401 REPLACEMENT OF (E) BRICK MASONRY
1 1/2" = 1'-0"



NOTES:

- LAP = 48 BAR DIAMETERS OR 24" MINIMUM (U.N.O.)
- PROVIDE A STANDARD 90 DEG. HOOK EACH END ON ANY HORIZONTAL BAR BETWEEN OPENINGS, CONTROL JOINTS, OR CORNER BARS LESS THAN 6'-0" IN LENGTH.
- PROVIDE CORNER BARS FOR ALL BOND BEAM AND LINTEL REINFORCING.

H
S401 MASONRY CORNER REINFORCING DETAIL
3/4" = 1'-0"

F

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E

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FULLER GROUP PROJECT # 24176
FIRM NO. C-1903

D

TOWN OF CANTON

C

ARMORY COMMUNITY CENTER RENOVATION

71 PENLAND ST. CANTON, NC 28716

B

DATE	MARK	DESCRIPTION
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ISSUE: CONSTRUCTION DOCUMENTS

DATE: 11/12/2025

PROJECT NO: 23029

DRAWN BY: NLH

CHECKED BY: MAH

A

SECTIONS & DETAILS

S401

7

6

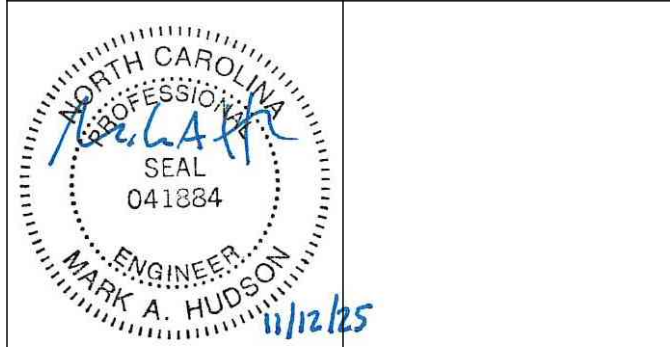
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4

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2

1



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FULLER STRUCTURAL, INC
1350 C Cleveland St., Greenville, SC 29607
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FULLER GROUP PROJECT # 24176 FIRM NO. C-1903

TOWN OF CANTON

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DATE:	11/12/2025
PROJECT NO:	23029
DRAWN BY:	Author
CHECKED BY:	Checker

SECTIONS & DETAILS

S402

F

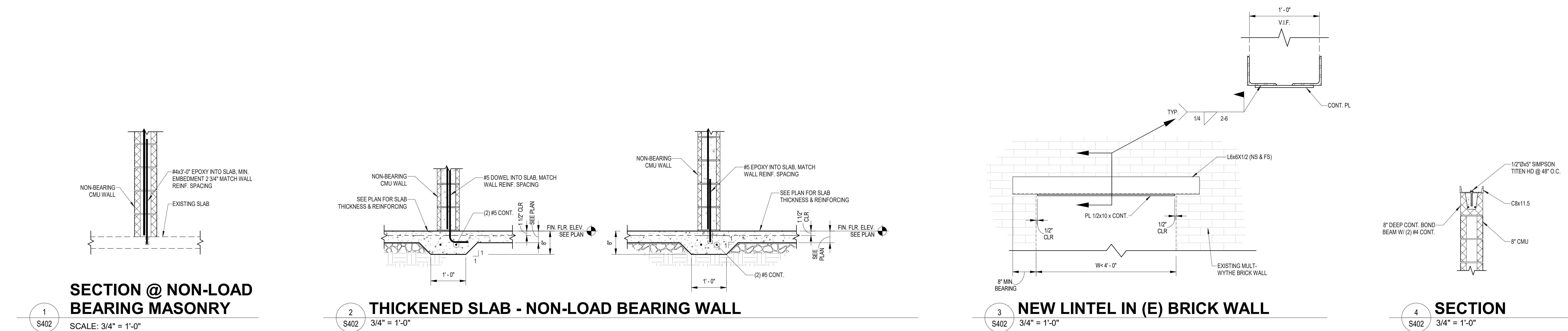
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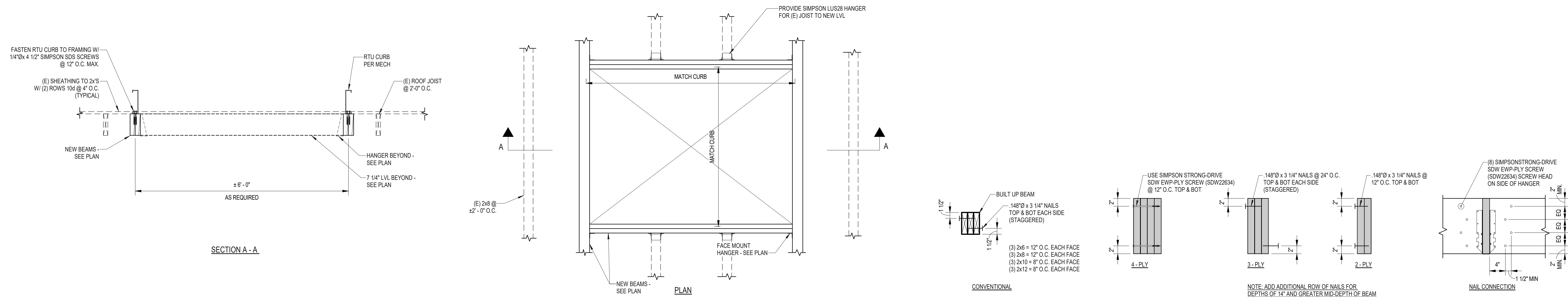
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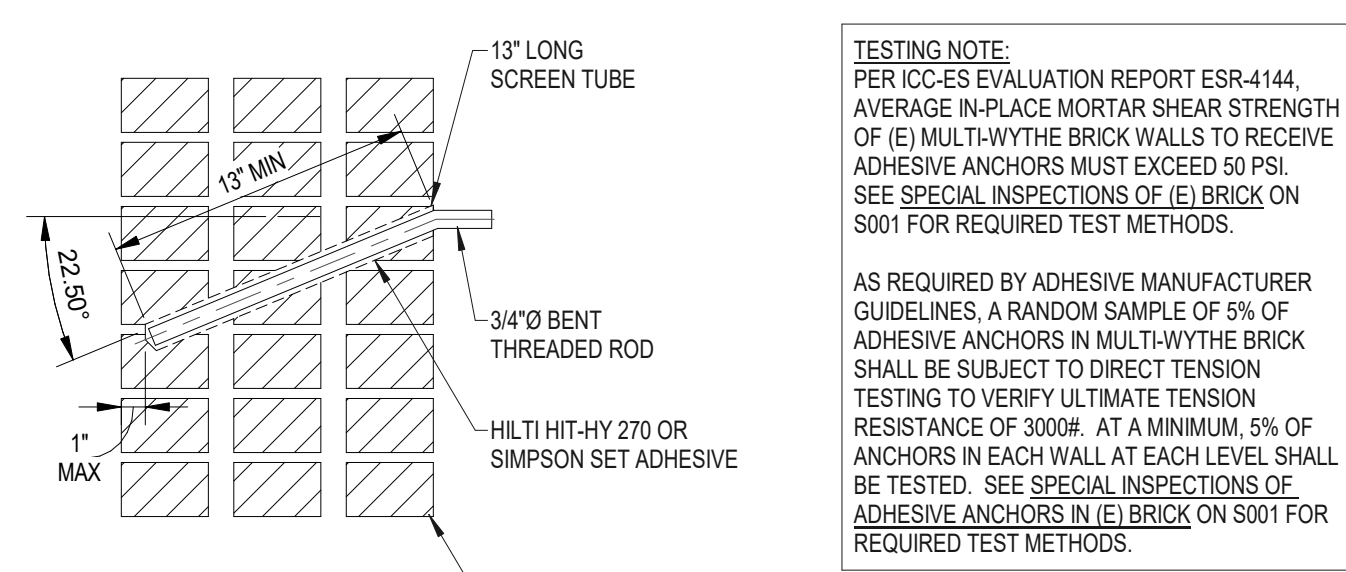
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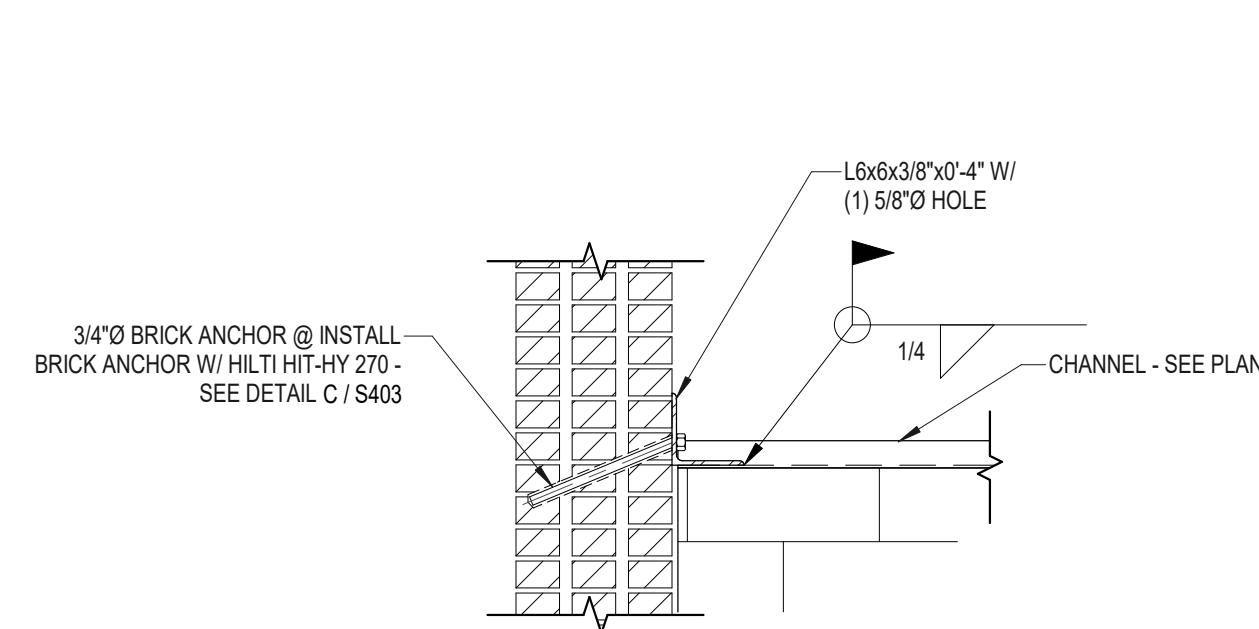
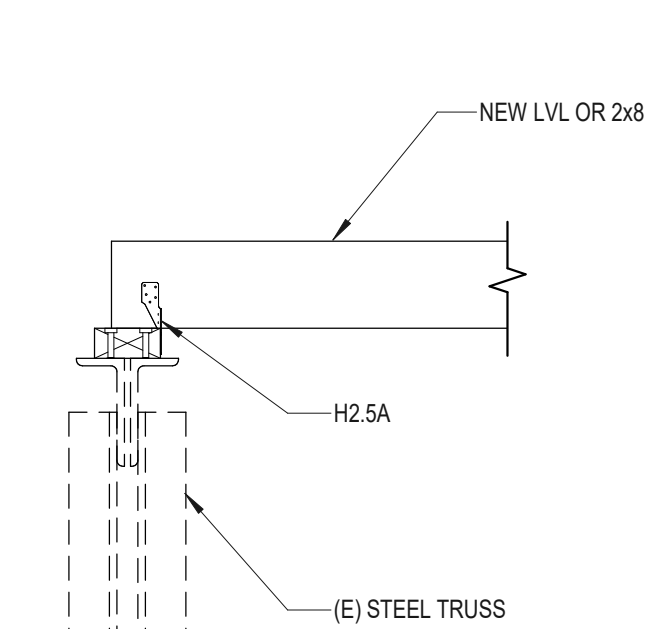
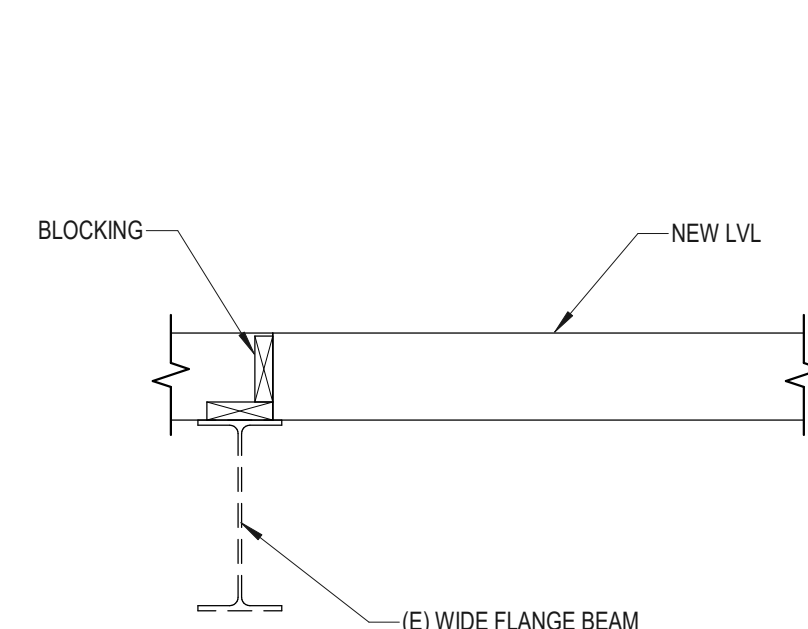
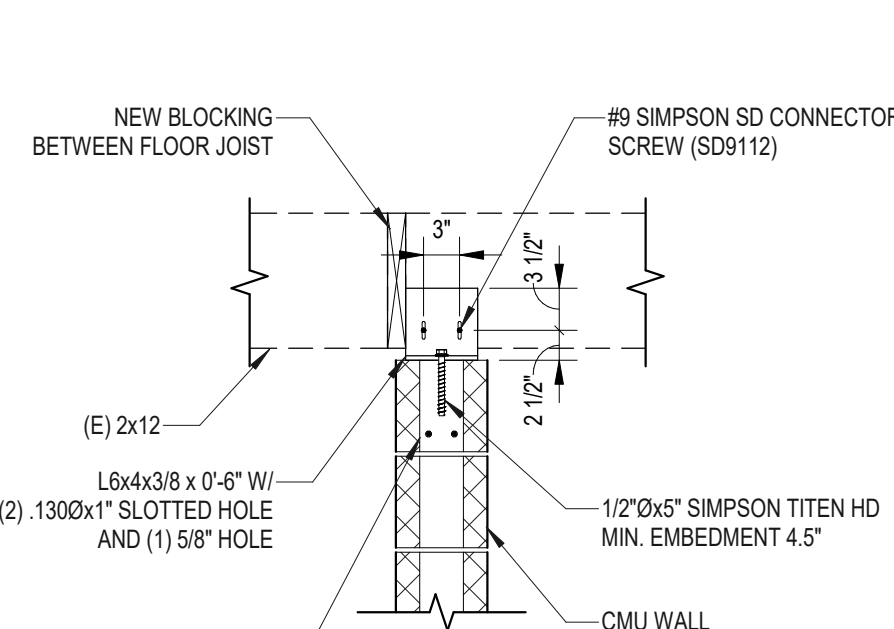
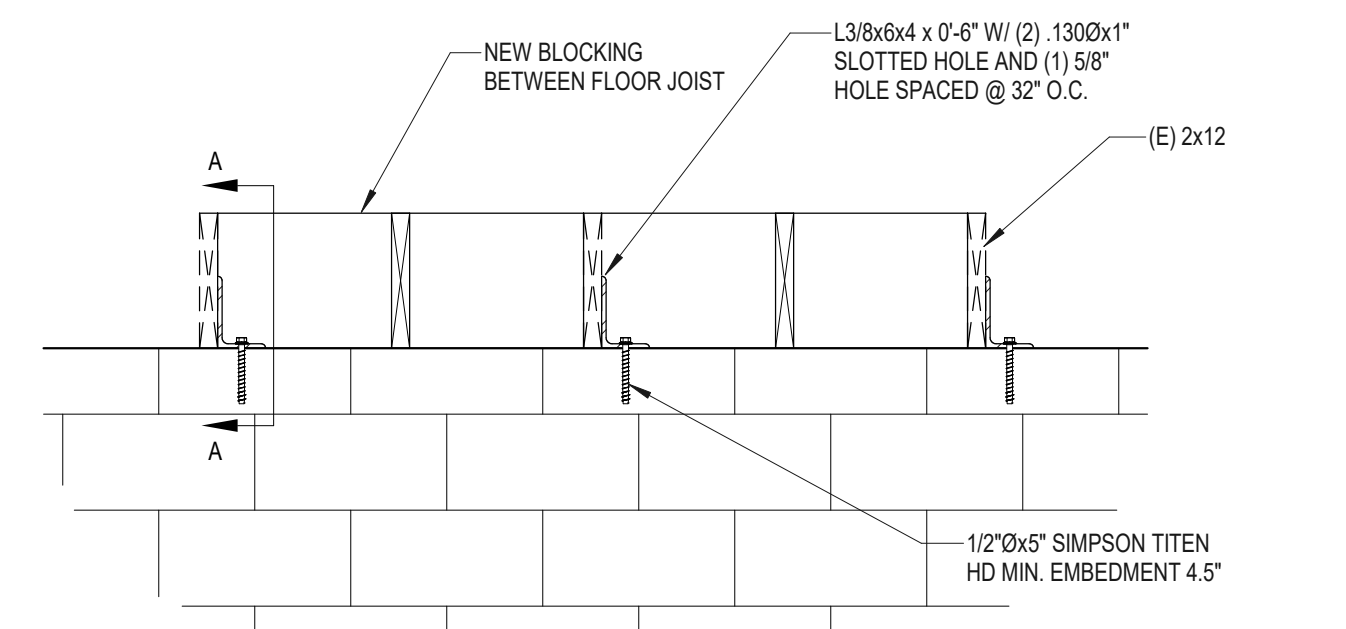
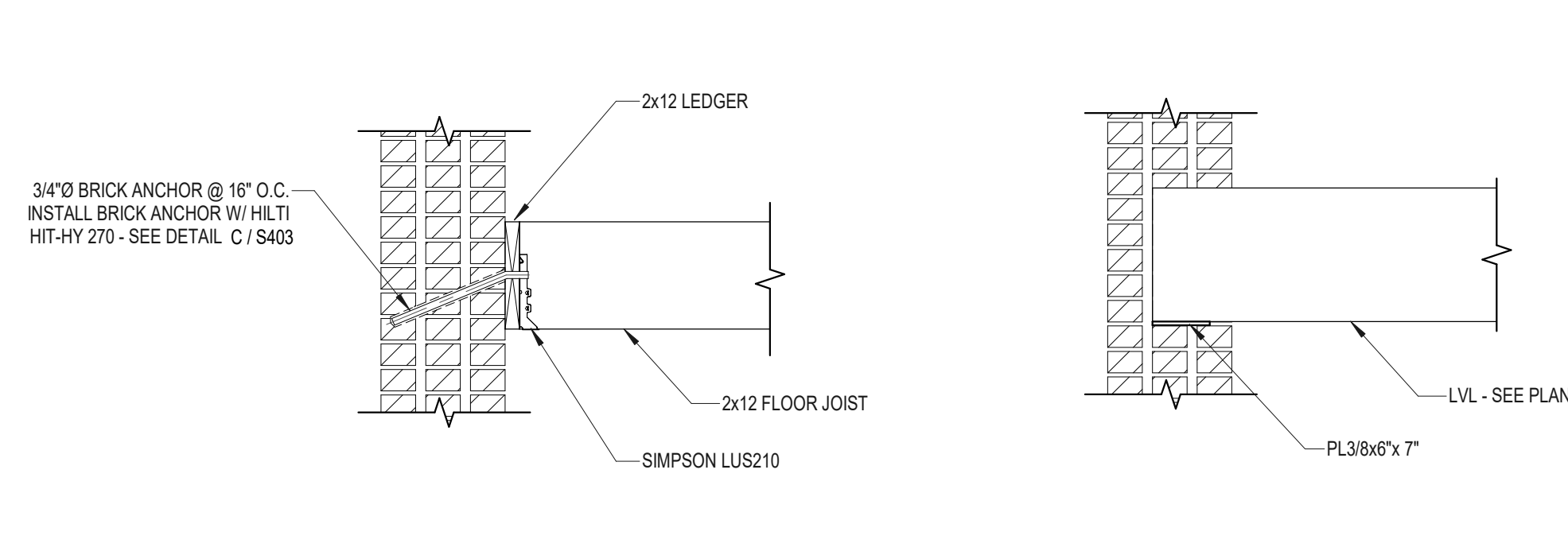
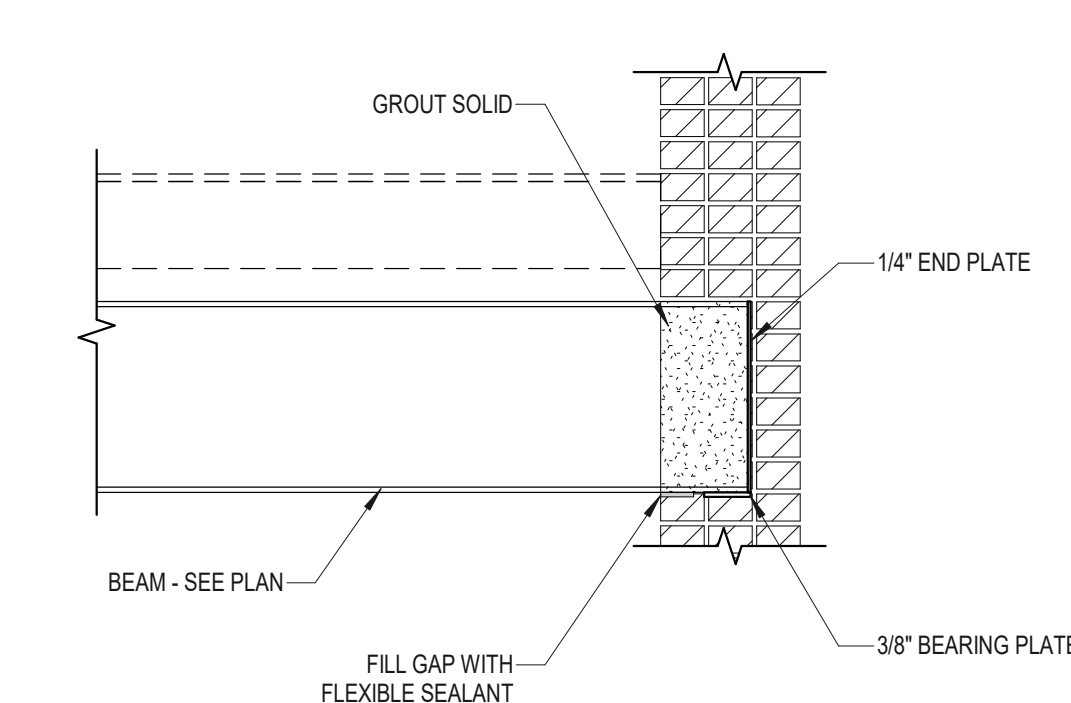
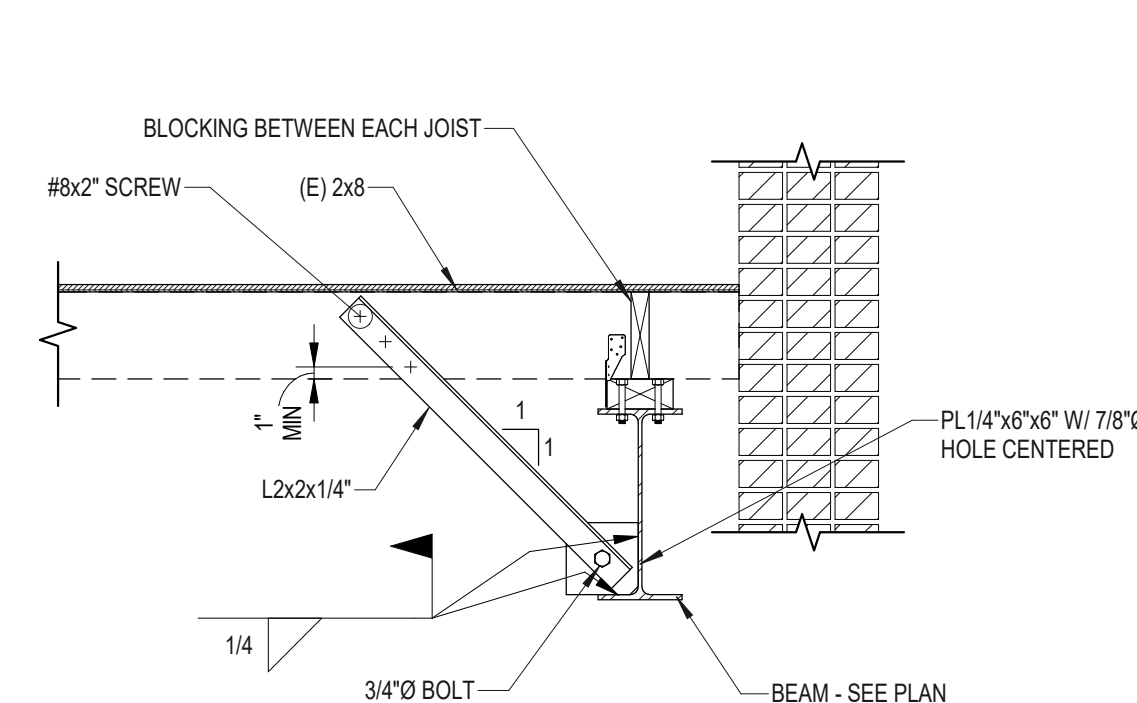


RTU SUPPORT - RETROFIT
A S403 3/4" = 1'-0"

TYP. BUILT-UP BEAM NAILING
B S403 1" = 1'-0"



POST INSTALLED ANCHORS IN MULTI-WYTHE BRICK
C S403 SCALE: 1 1/2" = 1'-0"

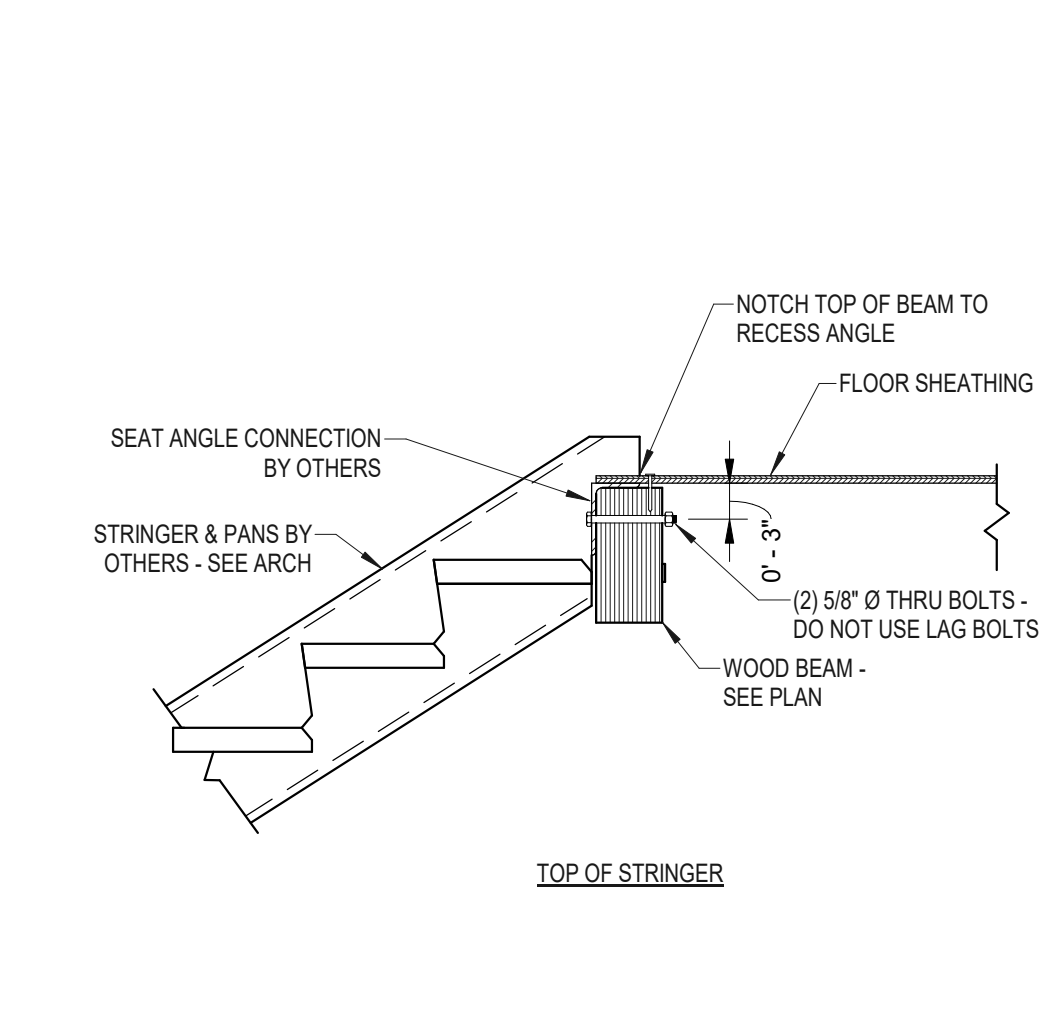
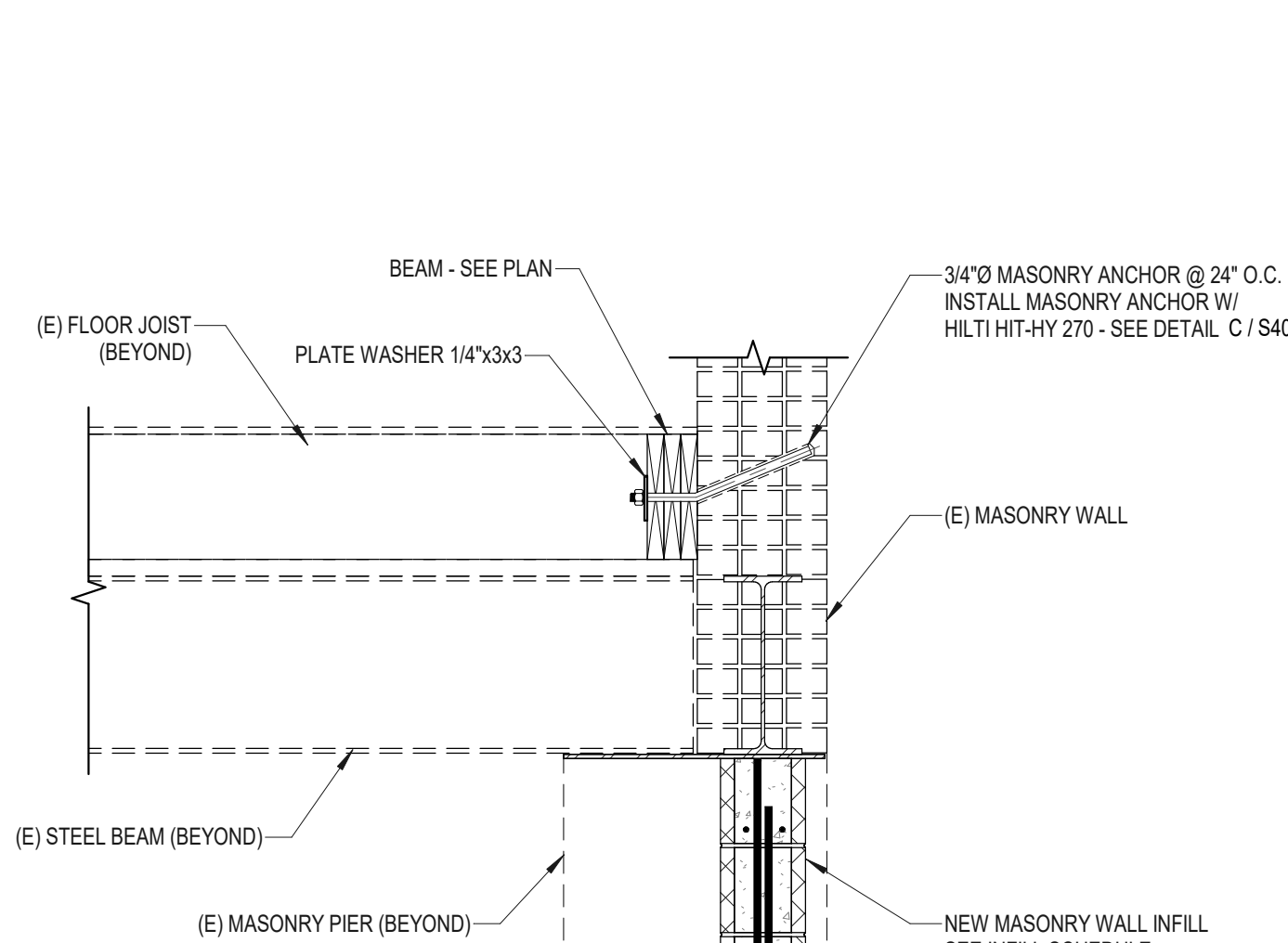
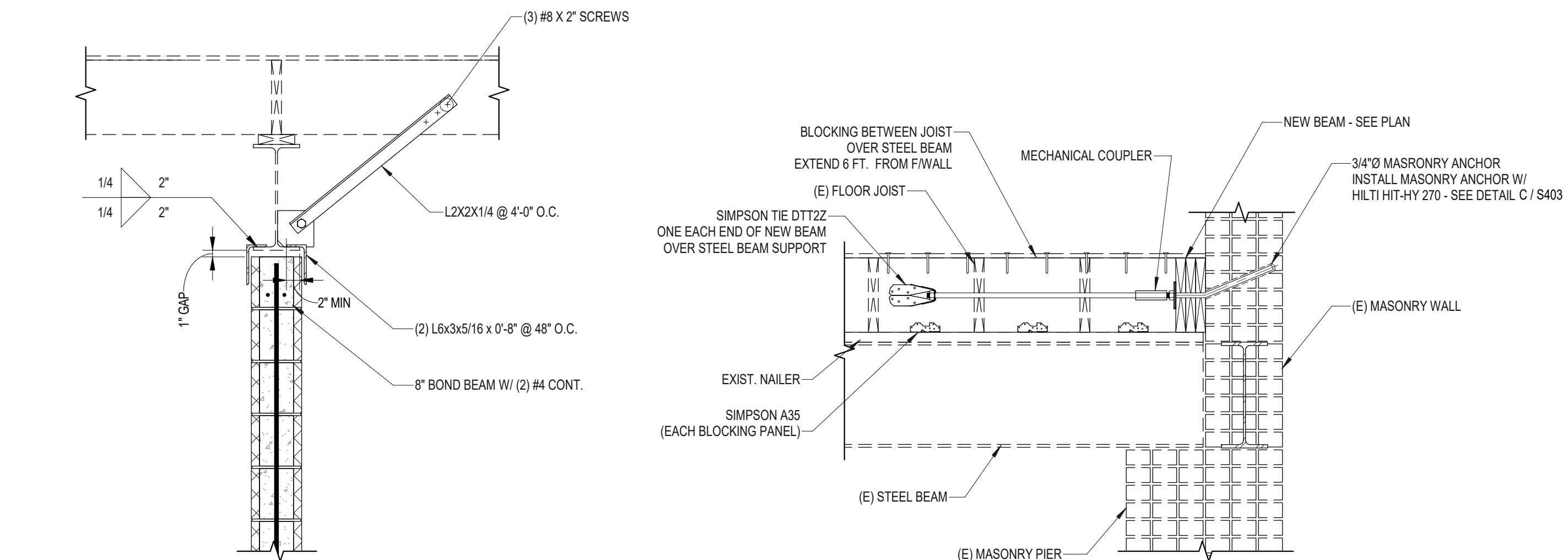


BLOCKING TO CMU
5 S403 3/4" = 1'-0"

SECTION 6
6 S403 3/4" = 1'-0"

SECTION 7
7 S403 3/4" = 1'-0"

SECTION 8
8 S403 3/4" = 1'-0"



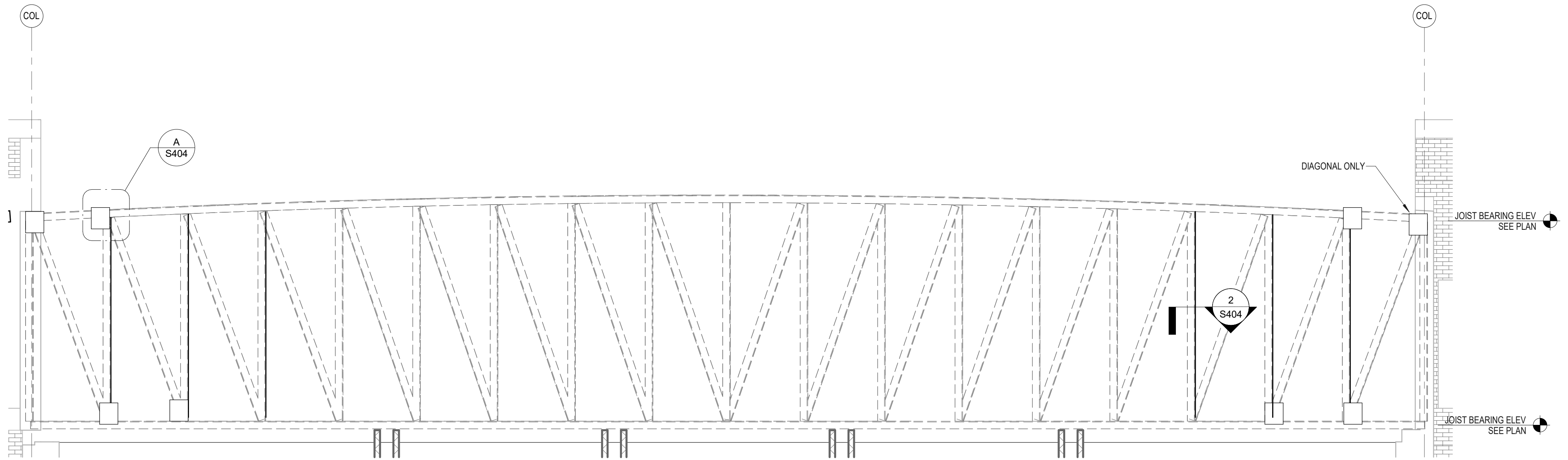
SECTION 9
9 S403 3/4" = 1'-0"

SECTION 10
10 S403 3/4" = 1'-0"

SECTION 11
11 S403 3/4" = 1'-0"

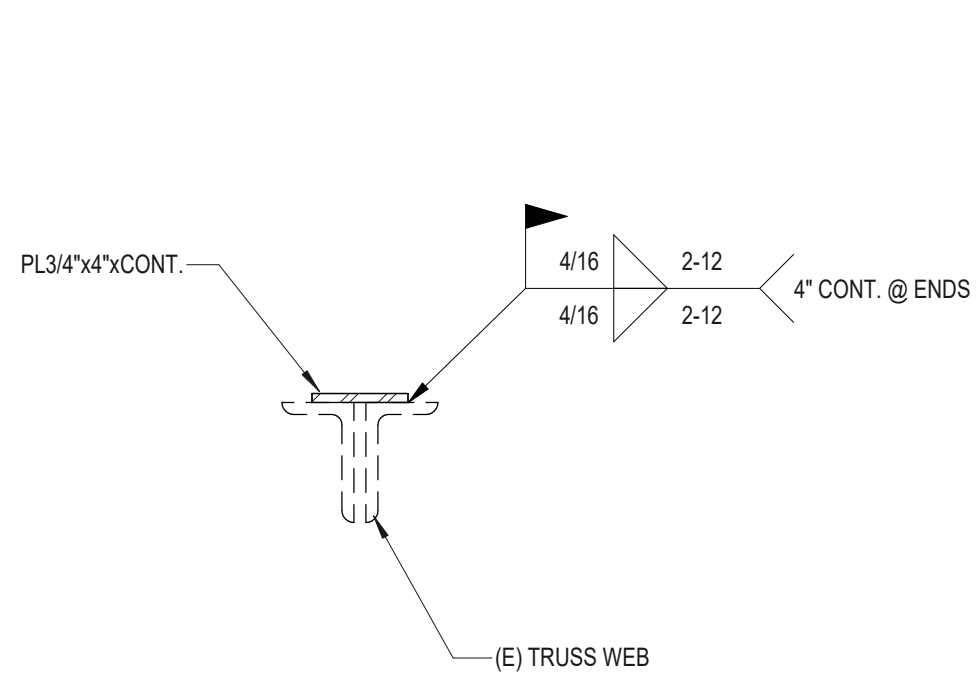
TYP STRINGER CONNECTION
12 S403 3/4" = 1'-0"

Autodesk Docs/Canton Armory/24176 - Canton Armory Renovations - STR24.rvt
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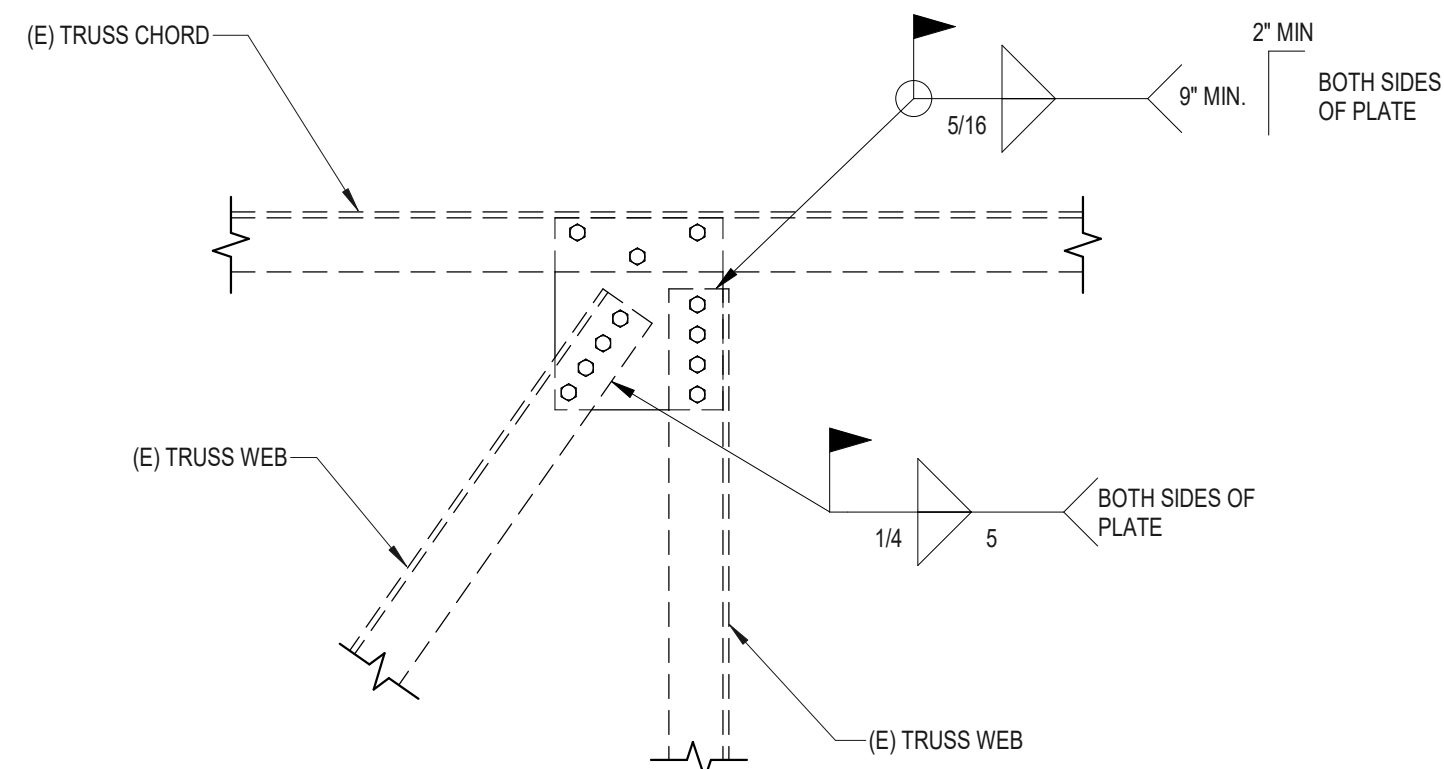
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S404
1/4" = 1'-0"

EXISTING TRUSS REINFORCING SECTION



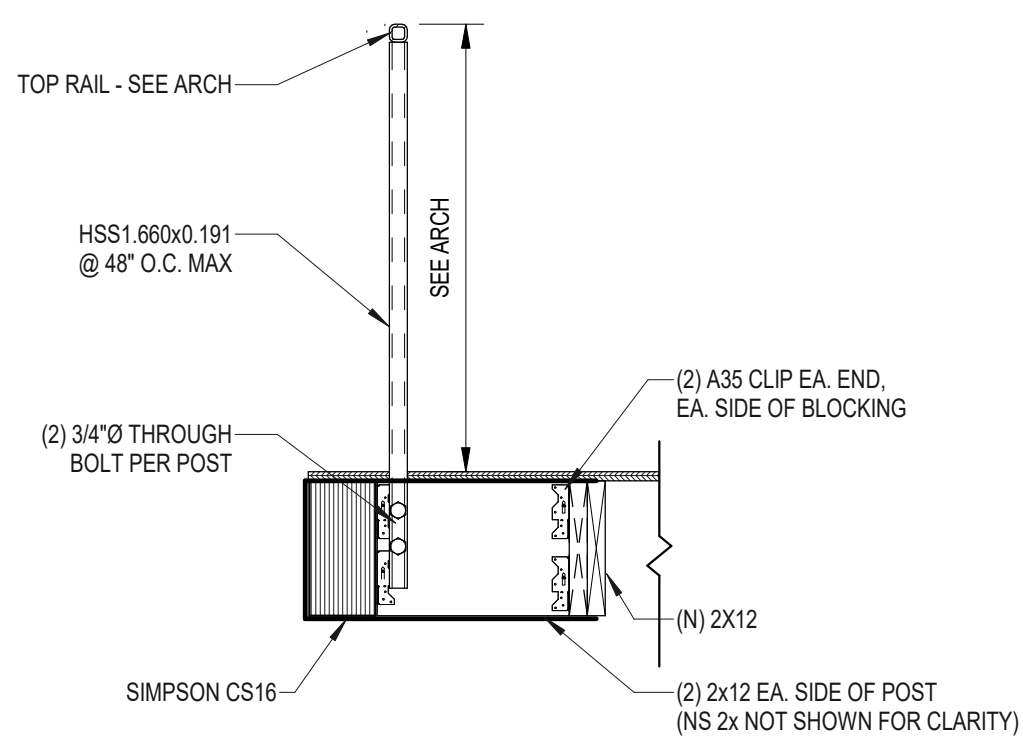
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S404
1 1/2" = 1'-0"

TRUSS REINFORCING SECTION



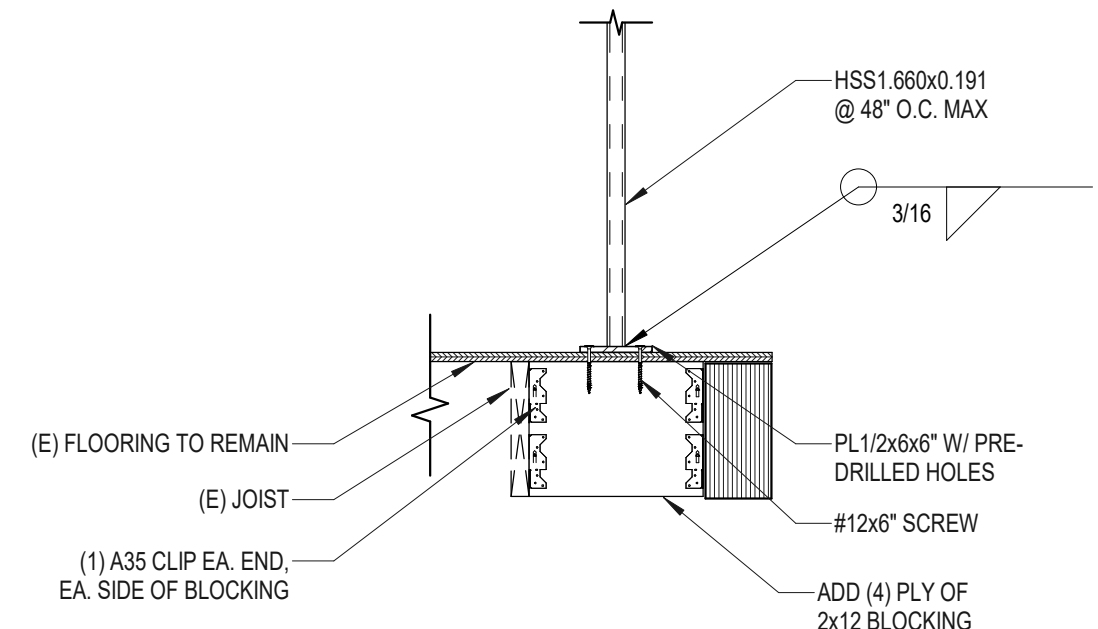
A
S404
3/4" = 1'-0"

TRUSS REINFORCING DETAIL



3
S404
3/4" = 1'-0"

RAILING DETAIL



4
S404
3/4" = 1'-0"

RAILING DETAIL

F

CRAIG GAULDEN DAVIS

• Architecture

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E

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FULLER GROUP PROJECT # 24176
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TOWN OF CANTON

C

ARMORY COMMUNITY CENTER RENOVATION

B

71 PENLAND ST. CANTON, NC 28716

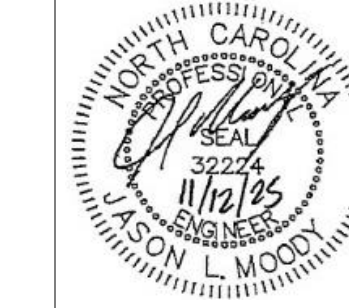
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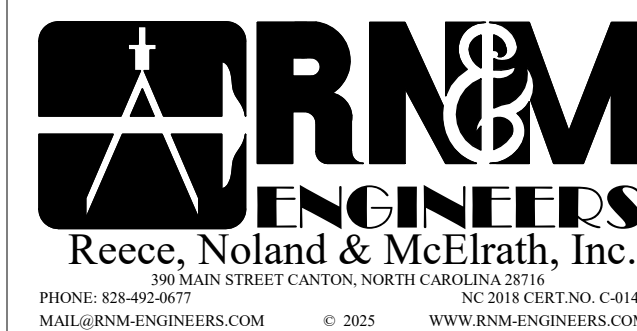
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DATE: 11/12/2025
PROJECT NO: 23029
DRAWN BY: NLH
CHECKED BY: MAH

SECTIONS & DETAILS

S404



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RENOVATION

71 PENLAND ST. CANTON, NC 28716

DATE	MARK	DESCRIPTION
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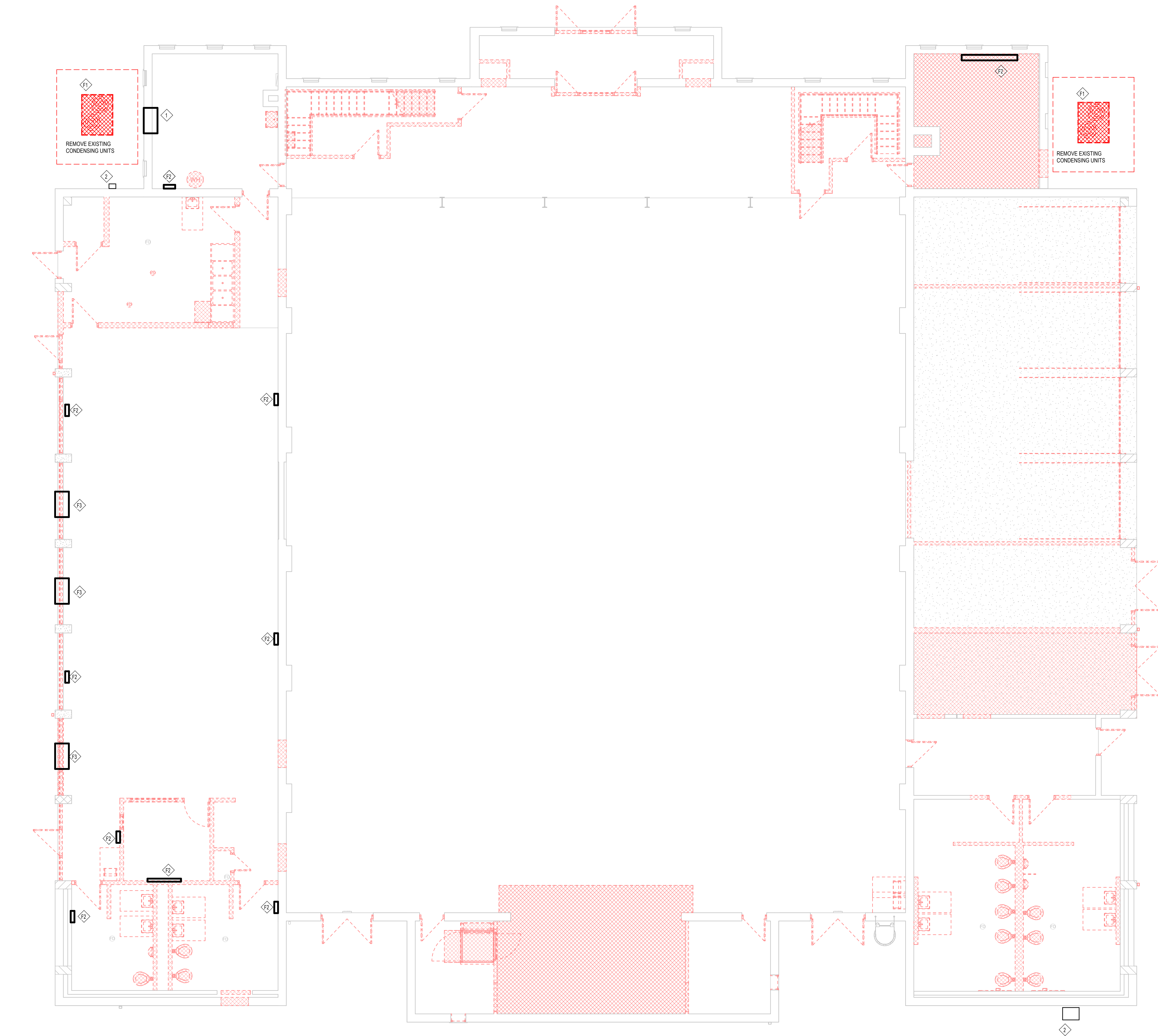
ISSUE: CONSTRUCTION DOCUMENTS
DATE: 11/12/2025
PROJECT NO: 23029
DRAWN BY: KDS
CHECKED BY: JLM

MECHANICAL MAIN
LEVEL DEMOLITION PLAN

MD101

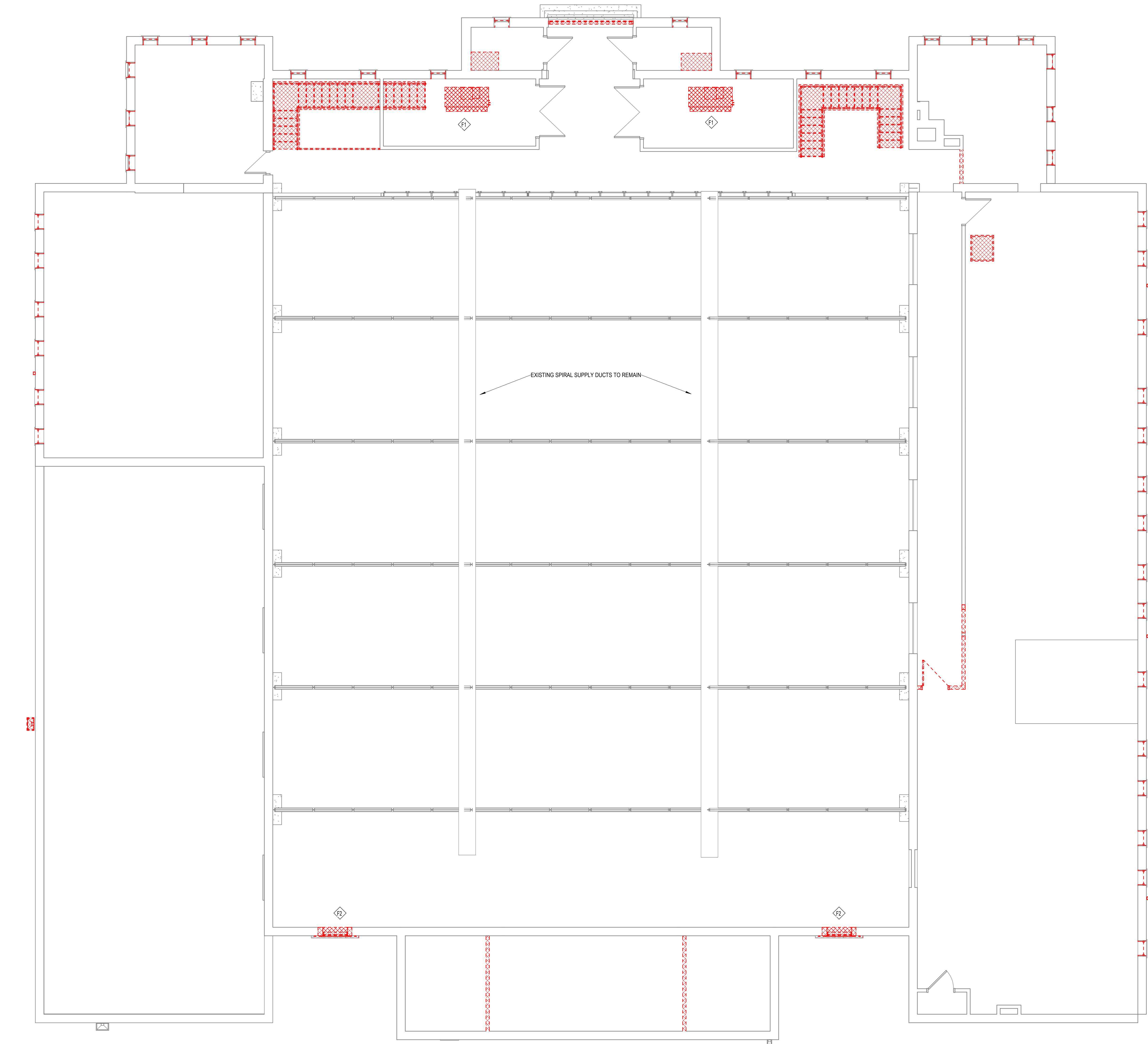
KEYED MECHANICAL DEMOLITION NOTES	
NOTES APPLY TO THIS SHEET ONLY	
1	EXISTING WINDOW UNIT TO BE REMOVED AND DISPOSED OF AS DIRECTED BY OWNER.
2	EXISTING EXHAUST FANS TO BE REMOVED AND DISPOSED OF AS DIRECTED BY OWNER.

KEYED MECHANICAL DEMOLITION NOTES - FEMA REPAIRS	
NOTES APPLY TO THIS SHEET ONLY	
1	EXISTING CONDENSING UNITS TO BE REMOVED AND DISPOSED OF AS DIRECTED BY OWNER.
2	EXISTING UNIT HEATER(S) TO BE REMOVED AND DISPOSED OF AS DIRECTED BY OWNER.
3	EXISTING THRU WALL UNIT OPENINGS TO BE FILLED IN AND REPAIRED TO MATCH ADJACENT FINISHES. COORDINATE WITH ARCHITECT AND STRUCTURAL DESIGNERS.



1 MAIN LEVEL DEMOLITION PLAN
MD101 3/16" = 1'-0"

Autodesk Docs://Canton Armory/MECH_CANTON ARMORY_R24.rvt
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1 UPPER LEVEL DEMOLITION PLAN
MD102 3/16" = 1'-0"

KEYED MECHANICAL DEMOLITION NOTES - FEMA REPAIRS
NOTES APPLY TO THIS SHEET ONLY

- F1 EXISTING AIR HANDLER UNITS AND AUX. GAS HEATERS TO BE REMOVED AND DISPOSED OF AS DIRECTED BY OWNER.
- F2 EXISTING EXHAUST FAN AND LOUVERS TO BE REMOVED.

CRAIG
GAULDEN
DAVIS

•Architecture

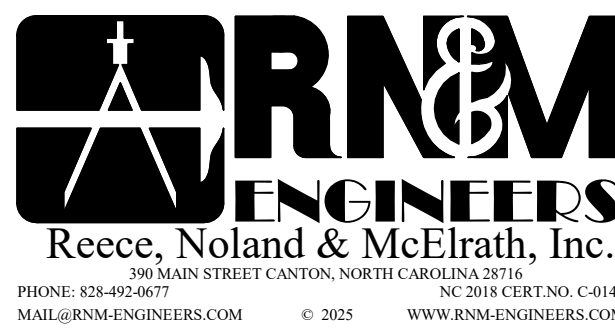
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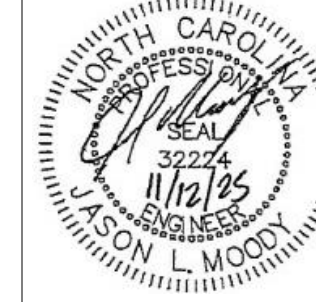
71 PENLAND ST. CANTON, NC 28716

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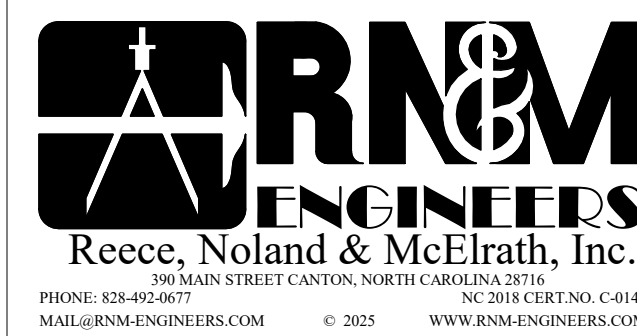
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MECHANICAL UPPER
LEVEL DEMOLITION PLAN

MD102



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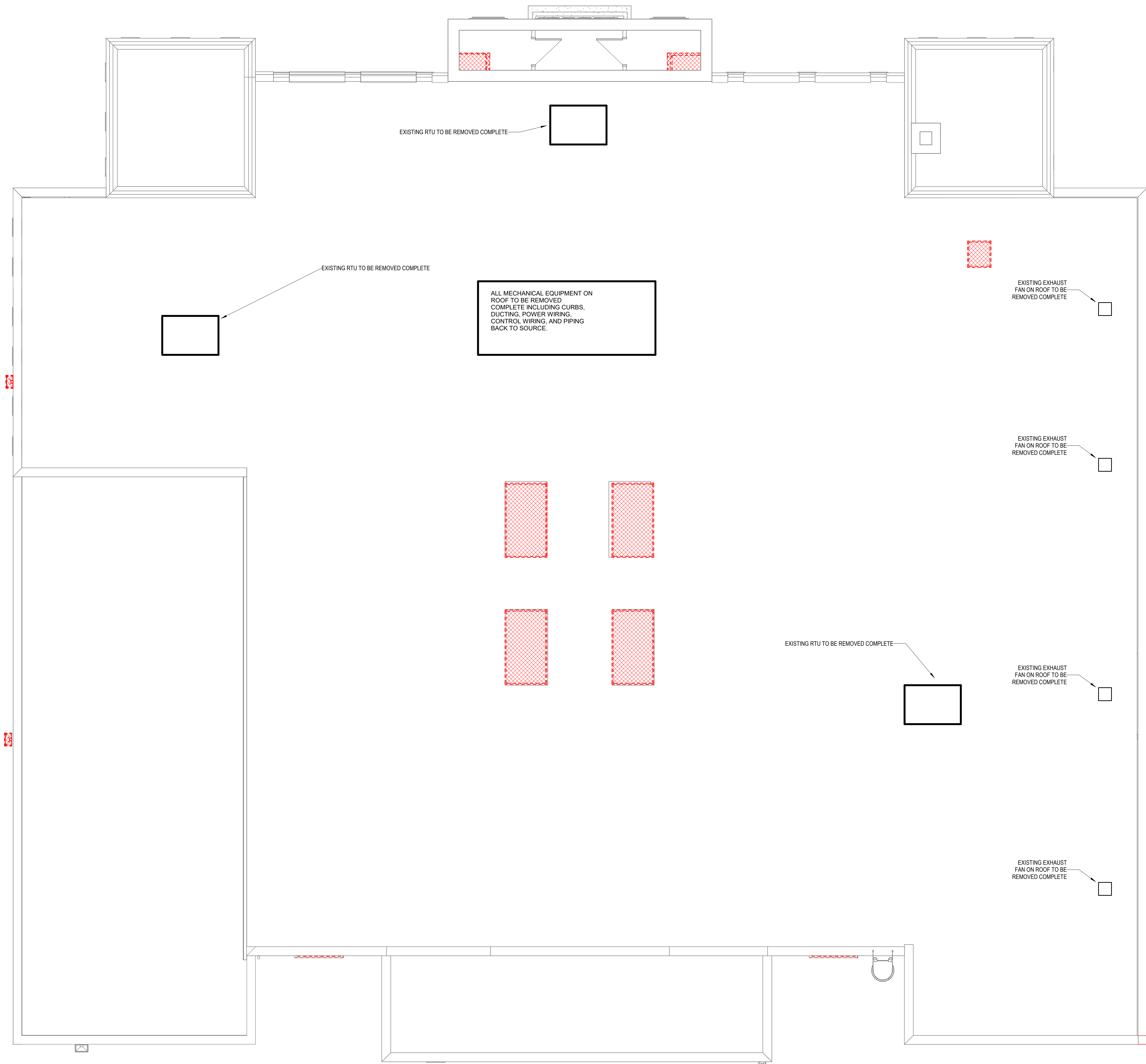
71 PENLAND ST. CANTON, NC 28716

DATE	MARK	DESCRIPTION
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DATE: 11/12/2025
PROJECT NO: 23029
DRAWN BY: KDS
CHECKED BY: JLM

MECHANICAL ROOF
DEMOLITION PLAN

MD103



1 ROOF DEMOLITION PLAN
MD103 3/16" = 1'-0"

MECHANICAL SUMMARY - MECHANICAL SYSTEMS, SERVICE SYSTEMS, AND EQUIPMENT			
OUTDOOR AIR DESIGN CONDITIONS			
ASHRAE CLIMATE ZONE		4A	
ELEVATION		2117 ft	
WINTER DRY BULB		15.4 °F	
SUMMER DRY BULB		88.0 °F	
SUMMER WET BULB		71.2 °F	
GENERAL INTERIOR DESIGN CONDITIONS			
WINTER DRY BULB		70.0 °F	
SUMMER DRY BULB		75.0 °F	
RELATIVE HUMIDITY		50%	
BUILDING HEATING LOAD		NO ADDED LOAD	
BUILDING COOLING LOAD		NO ADDED LOAD	
MECHANICAL SYSTEMS			
UNITARY EQUIPMENT			
DESCRIPTION OF UNIT		REFER TO EQUIPMENT SCHEDULES FOR EFFICIENCIES	
HEATING EFFICIENCY			
COOLING EFFICIENCY			
SIZE CATEGORY OF UNIT			
BOILER			
TOTAL BOILER OUTPUT, IF OVERSIZED STATE REASON		N/A	
CHILLER			
TOTAL CHILLER CAPACITY, IF OVERSIZED STATE REASON		N/A	
LIST EQUIPMENT EFFICIENCIES		REFER TO EQUIPMENT SCHEDULES FOR EFFICIENCIES	

GENERAL MECHANICAL NOTES

1. THE DRAWINGS SHOW THE LOCATION AND ARRANGEMENT OF PIPING, DUCTS, AND EQUIPMENT, TOGETHER WITH DETAILS OF CONNECTIONS OF CERTAIN PRINCIPAL ITEMS. THE LAYOUT SHOWN SHALL BE FOLLOWED AS CLOSELY AS CIRCUMSTANCES WILL PERMIT, BUT THIS CONTRACTOR SHALL REFER TO ARCHITECTURAL, STRUCTURAL, PLUMBING, AND ELECTRICAL DRAWINGS AND SHALL COOPERATE FULLY WITH ALL OTHER CONTRACTORS AND TRADES WHILE INSTALLING PIPING, AND OTHER MECHANICAL AND ELECTRICAL EQUIPMENT. IN CASE OF CONFLICT, NOTIFY DESIGNER BEFORE PROCEEDING WITH INSTALLATION. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND LOCATIONS OF PARTITION WALLS, DOORS, CHASES, CASEWORK, ETC. DO NOT SCALE MECHANICAL DRAWINGS FOR SUCH DIMENSIONS.
2. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL ACCESSORIES, AND ACCESSORIES THAT MAY BE REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, OR RECOMMENDED BY THE EQUIPMENT MANUFACTURER, WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN OR SPECIFIED.
3. DUCTWORK SIZES INDICATED ON DRAWINGS ARE FREE INSIDE DIMENSIONS.
4. PIPING SIZES INDICATED ARE NOMINAL PIPE SIZE.
5. MAXIMUM LENGTH OF FLEXIBLE DUCT IS FIVE FEET (5').
6. IN LIQUID OR RIGID PIPE CONNECTIONS, STAINLESS STEEL BRAIDED FLEXIBLE HOSE CAN BE UTILIZED AT TERMINAL ULTIMATE LOCATIONS (VAV BOXES, HEAT PUMPS, ETC.).
7. ALL VALVES, DAMPERS, CONTROLS, AND OTHER ITEMS REQUIRED FOR OPERATION OR MAINTENANCE ARE TO BE ACCESSIBLE. PROVIDE ACCESS DOORS WHEN LOCATED ABOVE HARD CEILINGS.
8. ALL SLEEVES, OUTLET BOXES, AND OTHER ROUGH-IN FOR SUCH ITEMS AS FIRE DAMPERS, PIPE PENETRATIONS, LOUVERS, AND CONTROL ITEMS SHALL BE INSTALLED IN THE BUILDING CONSTRUCTION PRIOR TO THE MECHANICAL INSTALLATION.
9. PROVIDE AND INSTALL DUCT ACCESS DOORS AT ALL SMOKE DAMPERS, FIRE DAMPERS, DUCT SMOKE DETECTORS, AIR FLOW MONITORING STATIONS, AND OTHER DUCT ACCESSORIES REQUIRING ACCESS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR DUCT SMOKE DETECTOR AND DUCTWORK DEVICE LOCATIONS.
10. PROVIDE AND INSTALL VOLUME CONTROL DAMPERS AT ALL SUPPLY, RETURN, AND EXHAUST BRANCH DUCT TAKE-OFFS.
11. PROVIDE AND INSTALL ISOLATION VALVES AT ALL PIPING BRANCH TAKE-OFFS WITH MORE THAN ONE PIECE OF CONNECTED EQUIPMENT.
12. THIS CONTRACTOR SHALL TAKE FIELD MEASUREMENTS BEFORE FABRICATING ANY DUCTS TO ENSURE THAT DUCT SIZES SHOWN WILL FIT INTO AVAILABLE SPACE.
13. IN CASE OF CONFLICT, NOTIFY THE DESIGNER BEFORE PROCEEDING WITH INSTALLATION.
14. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
15. COORDINATE EXACT LOCATION FOR ALL CEILING DIFFUSERS/GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLAN AND ELECTRICAL CONTRACTORS LIGHTING LAYOUT.
16. ALL EMS SENSORS AND OTHER FIELD DEVICES MOUNTED ON WALLS TO BE PROTECTED FROM DAMAGE AS REQUIRED. PROVIDE LOCKING LEXAN COVERS IN LOCATIONS WHERE DAMAGE MAY OCCUR.
17. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TO THE GENERAL CONTRACTOR THE QUANTITY, SIZE AND LOCATIONS OF ALL ACCESSORIES, DAMPERS, VALVES, DRYER COILS, ETC. FOR ACCESS TO VALVES, BALANCE DAMPERS, OR OTHER EQUIPMENT AS REQUIRED. COORDINATE THIS WORK WITH THE REFLECTED CEILING PLANS. ALL VALVES OR OTHER DEVICES LOCATED ABOVE THE CEILING SHALL BE LOCATED IN ACCESSIBLE CEILINGS WHEREVER POSSIBLE. THERE SHOULD BE NO VALVES LOCATED ABOVE INACCESSIBLE CEILINGS.
18. COORDINATE EXACT LOCATION FOR ALL DUCTWORK, AIRPENTENANCES, ETC. FOR ALL ROOF OPENINGS WITH GENERAL CONTRACTOR.
19. COORDINATE INTERIOR SCHEDULE ON STRUCTURAL DRAWINGS AND COORDINATE ALL OPENINGS WITH GENERAL CONTRACTOR PRIOR TO WALL CONSTRUCTION.
20. COORDINATE EXACT SIZES REQUIRED FOR ALL OPENING FOR DUCTWORK AND PIPING WITH SPACE REQUIREMENTS, FIRE DAMPER INSTALLATION INSTRUCTIONS, STRUCTURAL DRAWINGS, AND THE GENERAL CONTRACTOR, PRIOR TO FRAMING FOR THE PENETRATIONS.
21. THE MECHANICAL CONTRACTOR SHALL THOROUGHLY COORDINATE DUCT / PIPE PENETRATIONS AT STRUCTURAL SHEAR WALLS / SHEAR BRACING WITH STRUCTURAL DRAWINGS AND BUILDING STEEL SHOP DRAWINGS. INSTALL LINTELS AS REQUIRED.
22. COORDINATE EXACT LOCATION FOR ALL EXHAUST, INTAKE, AND RETURN PIPING WITH ARCHITECTURAL LOUVERS OR PORTIONS THEREOF NOT SHOWN AS INTAKE OR EXHAUST AS SHOWN ON THE DRAWINGS. THE MECHANICAL CONTRACTOR SHALL REVIEW THE LOCATIONS OF ALL ARCHITECTURAL LOUVERS AS SHOWN ON THE BUILDING ELEVATIONS.
23. COORDINATE SENSORS, STAT'S, SWITCHES, ETC. TO GENERALLY BE LOCATED ADJACENT TO LIGHT SWITCHES IN EACH ROOM, UNLESS NOT OTHERWISE. GENERALLY, THIS SHOULD BE AS CLOSE TO DOOR/STAIR AS POSSIBLE.
24. ALL CEILING MOUNTED SMOKE DETECTORS TO BE MOUNTED AT LEAST 4" FROM ALL CEILING GRILLES / DIFFUSERS.
25. ALL STEAM PIPING TO BE SLOPED 1/8" PER 1' (1:100) DOWNWARDS IN THE DIRECTION OF STEAM FLOW.

EXHAUST FAN SCHEDULE											
Mark	Manufacturer	Model	CFM	Total External SP	Fan RPM	Motor Size	Voltage	Operating Frequency	Roof Opening (in)	Unit Weight	Notes
EF-1	GREENHECK	G-100HP-VG	750	1.00 in-wg	1725	373 W	115 V	60 Hz	15.5x15.5	59.00 lb	1 - 6
EF-2	GREENHECK	G-098-VG	325	1.00 in-wg	1667	187 W	115 V	60 Hz	15.5x15.5	41.00 lb	1-6, 8
EF-3	GREENHECK	G-098-VG	325	1.00 in-wg	1667	187 W	115 V	60 Hz	15.5x15.5	41.00 lb	1-6, 8
EF-4	GREENHECK	G-098-VG	325	1.00 in-wg	1667	187 W	115 V	60 Hz	15.5x15.5	41.00 lb	1-6, 8

NOTES:

1. BASIS OF DESIGN IS GREENHECK. COMPARABLE PRODUCTS BY TWIN CITY AND LOREN COOK AS APPROVED BY ENGINEER.
2. PROVIDE 18" ROOF CURB.
3. PROVIDE FAN SPEED ADJUSTMENT SWITCH AND 30/60/90 MINUTE RUN TIMER. PROVIDE PHENOLIC SIGN (WHITE LETTERS WITH RED BACKGROUND) ON WALL ABOVE TIMER STATING, "RUN FAN DURING FOOD PREPARATION."
4. PROVIDE SINGLE POLE DISCONNECT SWITCH.
5. PROVIDE BIRDSCREEN.
6. PROVIDE GRAVITY BACKDRAFT DAMPER.
7. PROVIDE COOLING ONLY THERMOSTAT.
8. PROVIDE 7-DAY PROGRAMMABLE TIMECLOCK. TIMECLOCK TO BE MOUNTED IN CLOSEST AVAILABLE MECHANICAL, ELECTRICAL, OR JANITORS ROOM. PROVIDE PHENOLIC LABEL (WHITE LETTERS ON BLUE BACKGROUND) STATING FAN SERVED.

SPLIT SYSTEM HEAT PUMP SCHEDULE																																		
Tag	Manufacturer	Indoor Air Handler Model Number	AIRFLOW			COOLING					HEATING					HEAT PUMP				ELECTRICAL										WEIGHTS		Notes		
			Airflow	Outdoor Airflow	ESP	Total Cooling Capacity	Sensible Cooling Capacity	EDB/EWB	LDB/LWB	AMBIENT	EER	Aux. Heat Input	Aux. Heat Differential Temperature	Heat Pump Heating Capacity	EDB	LDB	AMBIENT	COP	Outdoor Heat Pump Model Number	Nominal Tonnage	No. of Compressors	Refrigerant	Outdoor Voltage	Indoor Voltage	Electric Heat Voltage	Indoor MCA	Indoor MOCP	Outdoor MCA	Outdoor MOCP	Electric Heat MCA	Electric Heat MOCP		INDOOR	OUTDOOR
			[cfm]	[cfm]	[IN H2O]	[MBH]	[MBH]	[°F]	[°F]	[°F]		[kW]	[°F]	[MBH]	[°F]	[°F]	[°F]			[tons]				[V/Hz/Ph]	[V/Hz/Ph]	[V/Hz/Ph]	[amps]	[amps]	[amps]	[amps]	[amps]		[amps]	[lbs]
AHU/CU-1&2	Trane	TWE180	4800	1500	1.00	186.27	129.27	78.9/65.6	53.4/52.6	95	10.8	19.92	13.1	186.5	60.0	101.8	47	3.3	TWA190	15	2	R-454B	460/60/3	460/60/3	N/A	39	40	33	40	N/A	N/A	942	782	1-6, 8
AHU/CU-3	Trane	5TEM6D04	1050	0	0.50	31.77	24.14	76.4/63.4	54.9/52.7	95	12.0	14.4/10.8	32.4	31.8	60.0	87.9	47	4.2	5TWA4036A4	3	1	R-454B	460/60/3	208-230/60/1	208-230/60/3	5.0	15.0	6.8	15	48/42	50/45	144	220	1, 5, 7

NOTES

1	Basis of design is Trane. Comparable products by Carrier and York as approved by engineer.
2	Unit control shall be configurable via Bluetooth connection to mobile device.
3	Unit shall be Single Zone Variable Air Volume control.
4	System shall be dual circuit, dual compressor.
5	Units provided with factory installed leak detectors
6	Provide touchscreen programmable thermostat (BAS-SVP080A) and Symbio 700 controls.
7	Provide touchscreen programmable thermostat (BAS-SVU044F).
8	Unit provided with economizer plenum with low leakage dampers and economizer controller setup for differential enthalpy control with CO2

RTU Schedule																									
Unit Tags	Quantity	Model Number	Fan Performance		Cooling Coil Performance					Heat Pump Coil Performance				HGRH Coil Performance				Cooling Energy Efficiency		Electrical Data				Weight	Notes
			Airflow	Gross Total Capacity	Total Sensible Capacity	EAT DB	EAT WB	LAT DB	LAT WB	Heating Capacity	EAT	LAT	COP @ 47 F	Heating Capacity	EAT	LAT	Dew Point	EER	IEER	Voltage	MCA	MOCP			
			CFM	MBh	MBh	F	F	F	F	MBh	F	F		MBh	F	F	F	F	F	[Volts/Hz/Phase]	A	A	[lbs]		
RTU-1	1	WSK0900A	2475	81.42	64.17	77.34	62.24	52.19	49.76	82.87	70	106.08	3.4	44.1	56.2	74.52	55.33	11	14.1		460/60/3	16	20	998	1-8

NOTES:

1	Basis of design is Trane. Comparable products by Carrier or York as approved by engineer.
2	Units provided with factory installed leak detectors shall have BASNet points to communicate to BAS.
3	Provide factory-installed phase monitor
4	Provide condenser hail guards
5	Provide MERV 8 filter
6	Provide with zone temperature sensor
7	Provide hot gas reheat with dewpoint control
8	Provide touchscreen programmable thermostat (BAS-SVP080A) and Sybmio 700 controls.

DAMPER SCHEDULE						
Mark	MANUFACTURER	MODEL	NECK SIZE	AIRFLOW	PRESSURE DROP	NOTES
RDPDR-1	RUSKIN	CBD6	48x48	4800	0.01*	1, 3, 6
RDPDR-2	RUSKIN	CBDE	48x48	4800	0.01*	1, 3, 6

NOTES:

1. BASIS OF DESIGN IS RUSKIN. COMPARABLE PRODUCTS BY GREENHECK AND POTTORF.
2. PROVIDE INSECT SCREEN.
3. PROVIDE BIRD SCREEN.
4. PROVIDE 18" ROOF CURB.
5. PROVIDE MOTORIZED BACKDRAFT DAMPER. DAMPER TO OPEN WHEN EITHER AHU-1 OR AHU-2 ARE RUNNING.
6. PROVIDE GRAVITY BACKDRAFT RELIEF DAMPER. DAMPER TO BEGIN OPENING AT 0.02" WC.

ROOF HOODS SCHEDULE							
Mark	MANUFACTURER	MODEL	NECK SIZE	AIRFLOW	PRESSURE DROP	WEIGHT	NOTES
GIH-1	GREENHECK	FGI	42x42	9600 CFM	0.1" WC	280 lbs	1, 2, 4, 5

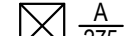
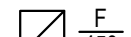
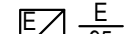
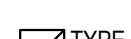
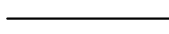
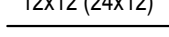
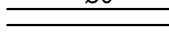
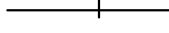
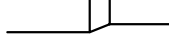
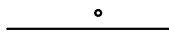
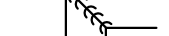
NOTES:

1. BASIS OF DESIGN IS GREENHECK, COMPARABLE PRODUCTS BY TWIN CITY AND LOREN COOK.
2. PROVIDE INSECT SCREEN.
3. PROVIDE BIRD SCREEN.
4. PROVIDE 18" ROOF CURB.
5. PROVIDE MOTORIZED BACKDRAFT DAMPER. DAMPER TO OPEN WHEN EITHER AHU-1 OR AHU-2 ARE RUNNING.
6. PROVIDE GRAVITY BACKDRAFT RELIEF DAMPER. DAMPER TO BEGIN OPENING AT 0.02" WC.

Air Terminal Schedule						
Mark	System Type	Manufacturer	Model	Description	Type	Size
A	Supply Air	Price Industries	SCD Series	Square Cone Diffuser	24x24, 10"	10"ø
B	<varies>	Price Industries	PDDR Series	Perforated Diffusers Ducted Return	24x24, 12"	12"ø
C	Exhaust Air	Price Industries	PDDR Series	Perforated Diffusers Ducted Return	12x12, 6x6	6"ø"
D	Exhaust Air	Price Industries	PDDR Series	Perforated Diffusers Ducted Return	24x24, 10x10	10"x10"
E	Exhaust Air	Price Industries	530 Series	Lower Face Grille Return	530 L - 0.75	12"x12"

NOTES:

1. BASIS OF DESIGN IS PRICE. COMPARABLE PRODUCTS BY NAILOR AND METALAIR.
2. PROVIDE ALUMINUM GRILLES AND DIFFUSERS IN WETTED AREAS (JANITORS CLOSETS, BATHROOMS, ETC.)

LEGEND					
	F 200	LINEAR SLOT DIFFUSER, TYPE AND CFM		Ⓢ	THERMOSTAT, MOUNTED 48" A.F.F.
	A 275	CEILING SUPPLY DIFFUSER, TYPE AND CFM		ⓈF	EMS SENSOR, MOUNTED 48" A.F.F.
	F 450	CEILING RETURN GRILLE, TYPE AND CFM		SM	FAN COIL UNIT FAN SPEED SWITCH
	F 95	CEILING EXHAUST GRILLE, TYPE AND CFM INDICATED		SV	MANUAL STARTER
	TYPE G	CEILING RETURN GRILLE, TYPE INDICATED		S	VARIABLE SPEED SWITCH
	P 605	SIDEWALL OR SIDE OF DUCT SUPPLY DIFFUSER, TYPE AND CFM		FD	SWITCHED WITH LIGHTS
	J 625	SIDEWALL OR SIDE OF DUCT RETURN GRILLE, TYPE AND CFM		Ⓢ	FIRE DAMPER
	24x12	RECTANGULAR DUCT, WIDTH x DEPTH		MO	EMS SPACE CARBON DIOXIDE SENSOR
	12x12 (24x12)	RECTANGULAR DUCT, BASE BID SIZE AND (ALTERNATE SIZE), WIDTH x DEPTH		SD	MOTORIZED OPERATOR
	Ø8	ROUND OR SPIRAL DUCT, DIAMETER		UC	DUCT SMOKE DETECTOR (FURNISHED BY E.C. AND INSTALLED BY M.C.)
		DUCT BALANCE DAMPER		50	UNDERCUT DOOR FOR CFM INDICATED
		DUCT TRANSITION		50	TRANSFERRED AIR FOR CFM INDICATED
	SP	FACTORY LINED ACOUSTICAL SPIRAL DUCT OR WRAPPED AND LINED RECTANGULAR DUCTWORK			TYPICAL VAV BOX (TYPE INDICATED)
	+	DUCT MOUNTED STATIC PRESSURE SENSOR			DUCT SILENCER/ATTENUATOR
		DUCT TAKEOFF AT 45 DEGREES			DUCT SILENCER/ATTENUATOR
		DUCT SQUARE ELBOW WITH TURNING VANES		ⓈD	U.L. RATED SMOKE DAMPER
	Ø12	FLEXIBLE DUCT, MAXIMUM 6' LENGTH		CO2	DUCT MOUNTED CO2 MONITOR, BASIS OF DESIGN: VAISALA GM20 - COMPARABLE BY VARIS AND SETRA.
	VD	DUCT VOLUME DAMPER		H	DUCT MOUNTED HUMIDITY SENSOR, BASIS OF DESIGN VAISALA HM20Y - COMPARABLE BY VARIS AND SETRA.
	AFMS	AIR FLOW MONITORING STATION, BASIS OF DESIGN AIRFLOW MONITOR CORP. FAN-EVALUATOR OR EQUIVALENT PRODUCTS BY RUSKIN OR KELE. INSTALL PER MANUFACTURERS INST. INSTRUCTIONS.		T	DUCT MOUNTED TEMPERATURE SENSOR
		MOTORIZED CONTROL DAMPER			2 HR RATED FIRE PARTITION
					1 HR RATED FIRE PARTITION
					NON-RATED SMOKE PARTITION

F

CRAIG
GAULDEN
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CONSULTANT

D

RNM
ENGINEERS

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TOWN OF
CANTON

C	
	ARMORY COMMUNITY CENTER RENOVATION

71 PENLAND ST. CANTON, NC 28716

DATE	MARK	DESCRIPTION
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A	
	ISSUE: CONSTRUCTION DOCUMENTS
	DATE: 11/12/2025
	PROJECT NO: 23029
	DRAWN BY: KDS
	CHECKED BY: JLM

MECHANICAL NOTES AND LEGENDS

M001

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MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF INDOOR UNIT SCHEDULE					
System Tag		OU-1	OU-2	OU-3	OU-6
Tag Reference		IU-1	IU-2	IU-3	IU-6
Nominal Data	Room Name				
	M-NET Address	N/A	N/A	N/A	N/A
	Model	MSZ-EX18NLW	SLZ-AF18NL	SLZ-AF18NL	SLZ-AF18NL
	Type	Wall -Mounted	Ceiling-Cassette (Four-Way)	Ceiling-Cassette (Four-Way)	Ceiling-Cassette (Four-Way)
	Nominal Cooling Capacity (BTU/h)	18,000	18,000	18,000	18,000
Design Conditions	Nominal Heating Capacity (BTU/h)	20,000	21,800	21,800	21,800
	Cooling Design Entering Temp DB/WB (°F) / [Water in temp]	80.0/67.0	80.0/67.0	80.0/67.0	80.0/67.0
	Heating Design Entering Temp DB/WB (°F) / [Water in temp]	70.0	70.0	70.0	70.0
	Cooling Diversity Full/Partial (See Note 5, 6)	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND
	Heating Diversity Full/Partial (See Note 5, 6)	FULL DEMAND	FULL DEMAND	FULL DEMAND	FULL DEMAND
Performance Data	Refrig Pipe Dim Liquid/Suction (inch)	1/2 / 1/4	1/2 / 1/4	1/2 / 1/4	1/2 / 1/4
	Cooling Total Capacity (BTU/h)	19,008.2	19,008.2	19,008.2	19,008.2
	Cooling Sensible Capacity (BTU/h)	12,773.1	13,034.7	13,034.7	13,034.7
	Heating Capacity (BTU/h)	12,898.5	12,898.5	12,898.5	12,898.5
	Estimated Cooling Coil LAT (°F) / [LWT]	50.4	54.1	54.1	54.1
Fan / Water Flow Data	Estimated Heating Coil LAT (°F) / [LWT]	99.3	95.2	95.2	95.2
	Fan Speed Setting	HIGH	HIGH	HIGH	HIGH
	Peak Fan Airflow (cfm) / [Design gpm]	408	475	475	475
	Max Fan ESP Setting 208V/230V (IN WG)				
	Sound Pressure Per Fan Speed 208V/230V (dBA)	30-33-36-40-43/30-33-37-43-49	32-40-43	32-40-43	32-40-43
Electrical Data	Voltage / Phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase
	Power Cooling 208V/230V (kW)	6.120	0.030	0.030	0.030
	Power Heating 208V/230V (kW)	7.01	0.04	0.04	0.04
	Electrical MCA/MFS	Powered by Outdoor	Powered by Outdoor	Powered by Outdoor	Powered by Outdoor
Notes / Options	Condensate Removal Rate (gal/hr)	0.70	0.67	0.67	0.67
	Actual Port Assignments				
	Applicable System Notes - See Notes Below	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5

- Notes & Options:
- 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

See outdoor unit schedule for outdoor ambient conditions, connected capacity, and other factors associated with corrected capacities
- 4

See schematic piping/control diagram for indication of required indoor unit remote controllers, system controllers, and integration devices.
- 5

Full demand corrected capacity includes de-rate associated with indoor vs. outdoor connected capacity indicated on outdoor unit schedule for associated system. Partial corrected capacity assumes sufficient diversity exists such that the connected capacity de-rate does not apply. It is the designer's responsibility to ensure "Diamond System Builder" is set in the appropriate output capacity setting (full demand/partial demand) prior to generating this schedule.
- 6

It is recommended to always base heating corrected capacity on full demand.
- 7

Provide Blue Diamond MaxiBlue Condensate Pump with Reservoir & Sensor - 208/230V
- 8

Equals by Trane and Daikin

MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF OUTDOOR UNIT SCHEDULE					
System Tag		OU-1	OU-2	OU-3	OU-6
Tag Reference					
Nominal Data	M-NET Address	N/A	N/A	N/A	N/A
	Model Number	SUZ-AA18NL	SUZ-AA18NL	SUZ-AA18NL	SUZ-AA18NL
	Modules				
	Nominal Cooling Capacity (BTU/h)	18,000	18,000	18,000	18,000
	Nominal Heating Capacity (BTU/h)	20,000	20,000	20,000	20,000
	Cooling Efficiency (I)EER [SEER]	0 [N/A]	0 [N/A]	0 [N/A]	0 [N/A]
	EER2 [SEER2]	0 []	0 []	0 []	0 []
	Heating COP @ 47°F [HSPF]	0 [N/A]	0 [N/A]	0 [N/A]	0 [N/A]
	Nom System Connected Capacity (% of NOM)	100.0 %	100.0 %	100.0 %	100.0 %
Design Conditions	Design Cooling Outdoor Temp DB (°F)	89.0	89.0	89.0	89.0
	Design Heating Outdoor Temp WB (°F)	8.9	8.9	8.9	8.9
	Max Pipe Length from BC or 1st Joint (feet)	0.0	0.0	0.0	0.0
	Refrig Pipe Dim High/Low Pressure (inch) (See Note 4)	1/4 / 1/2	1/4 / 1/2	1/4 / 1/2	1/4 / 1/2
Performance Data	Corrected Cooling Total Capacity (BTU/h)	19,008.2	19,008.2	19,008.2	19,008.2
	Corrected Heating Capacity (BTU/h)	12,898.5	12,898.5	12,898.5	12,898.5
Compressor Data	Sound Pressure (dBA)	54/55	54/55	54/55	54/55
	Compressor Type				
	Compressor Quantity				
	Preliminary Added Field Charge (See Note 5)	0.0	0.0	0.0	0.0
Electrical Data	Voltage / Phase	208/230V / 1-phase	208/230V / 1-phase	208/230V / 1-phase	208/230V / 1-phase
	MCA 208/230 or [460V]	25	25	25	25
	Recommended Fuse Size (RFS)	30	30	30	30
	MOCP	42	42	42	42
Notes / Options	Applicable System Notes - See Notes Below	1, 2, 3, 4, 5, 6, 7, 8, 9	1, 2, 3, 4, 5, 6, 7, 8, 9	1, 2, 3, 4, 5, 6, 7, 8, 9	1, 2, 3, 4, 5, 6, 7, 8, 9

- Notes & Options:
- 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

For systems with multiple modules, refrigerant pipe dimensions indicate total system combined piping downstream of module twinning.
- 5

Added field charge listed is in addition to factory charge, this must be updated based upon final as-built piping layout.
- 6

Factory representatives shall review the project prior to and throughout the installation of CITY MULTI equipment
- 7

Factory representatives shall startup and commission CITY MULTI equipment upon completion of equipment installations
- 8

Factory representatives shall provide on-site assistance for the BMS integration of the CITY MULTI equipment
- 9

Factory representatives shall provide end-user training on the CITY MULTI equipment upon completion of the installation of equipment
- 10

Equals by Trane and Daikin

7

6

5

4

3

2

1

F

E

D

C

B

A

CRAIG GAULDEN DAVIS

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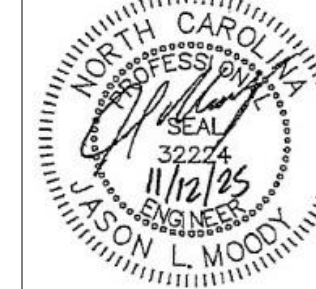
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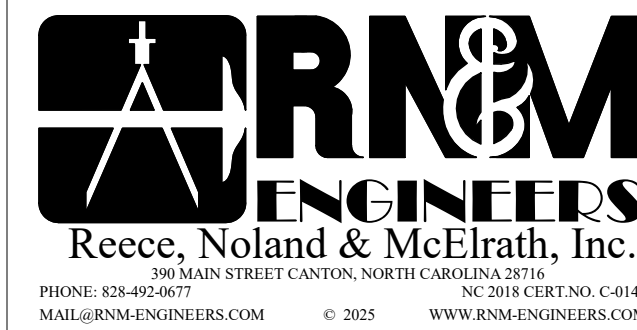
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MECHANICAL NOTES AND LEGENDS

M002



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TOWN OF CANTON

ARMORY COMMUNITY CENTER RENOVATION

71 PENLAND ST., CANTON, NC 28716

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DATE: 11/12/2025

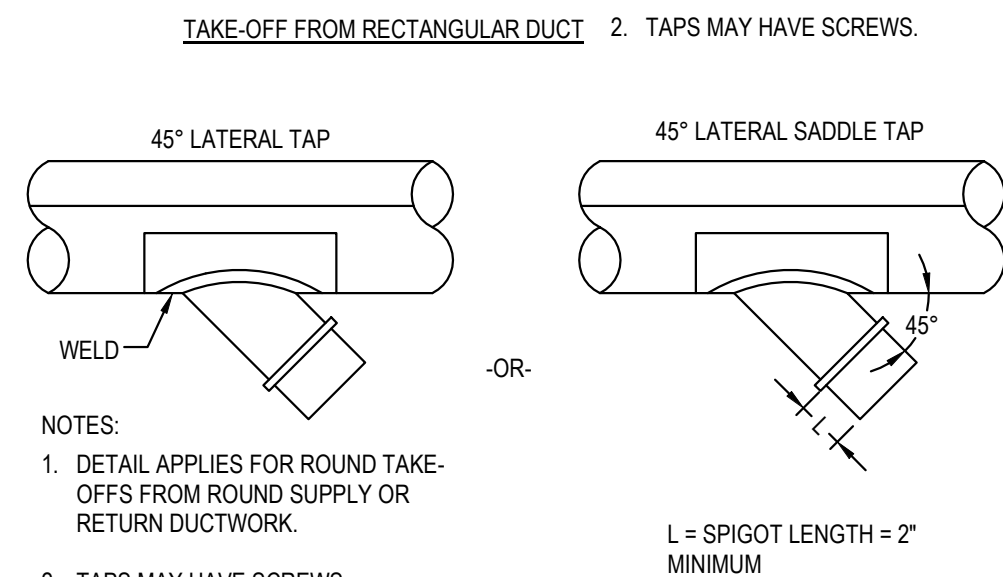
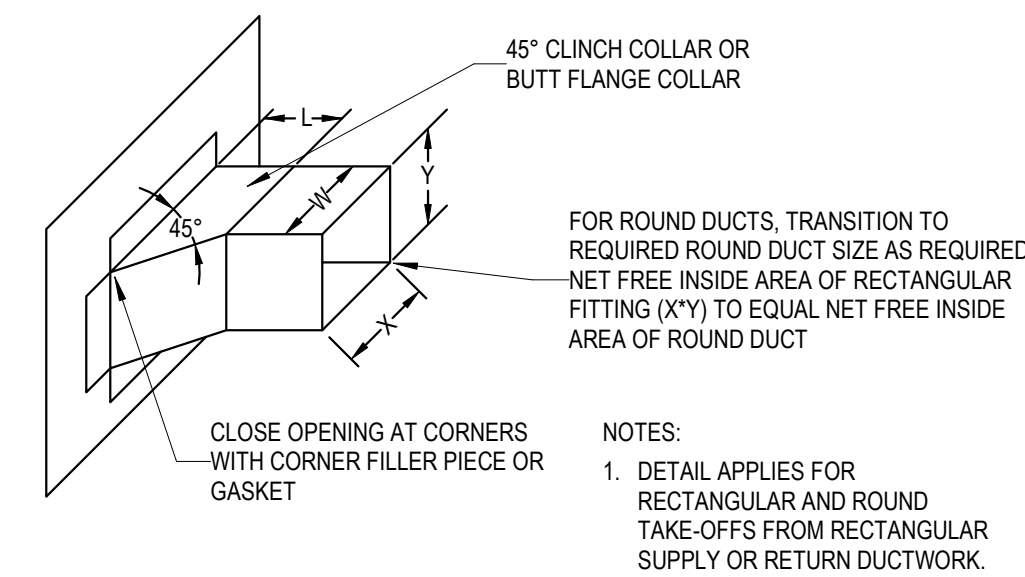
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CHECKED BY: JLM

MECHANICAL DETAILS

M003

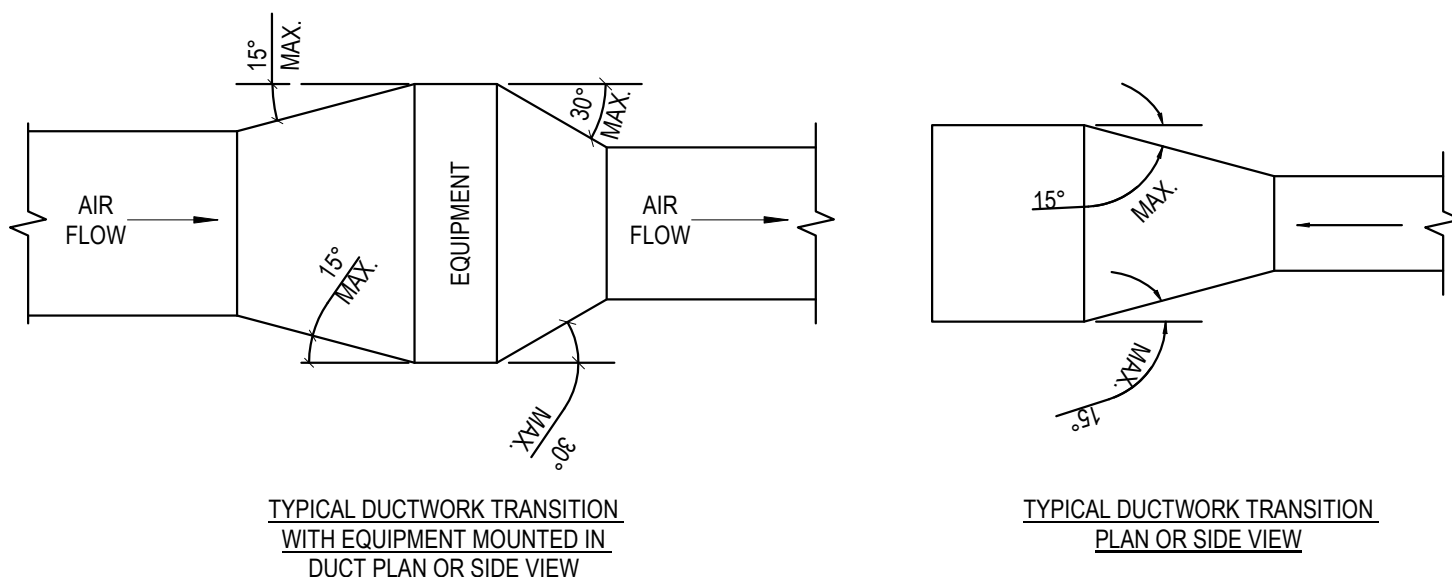


GENERAL NOTES:

INSTALL DUCT TAKE-OFFS PER SMACNA DETAILS FIG. 2-8 AND 3-8. SPIN-IN TYPE FITTINGS SHALL NOT BE USED.

4 TAKE OFF (45)

M003 NTS

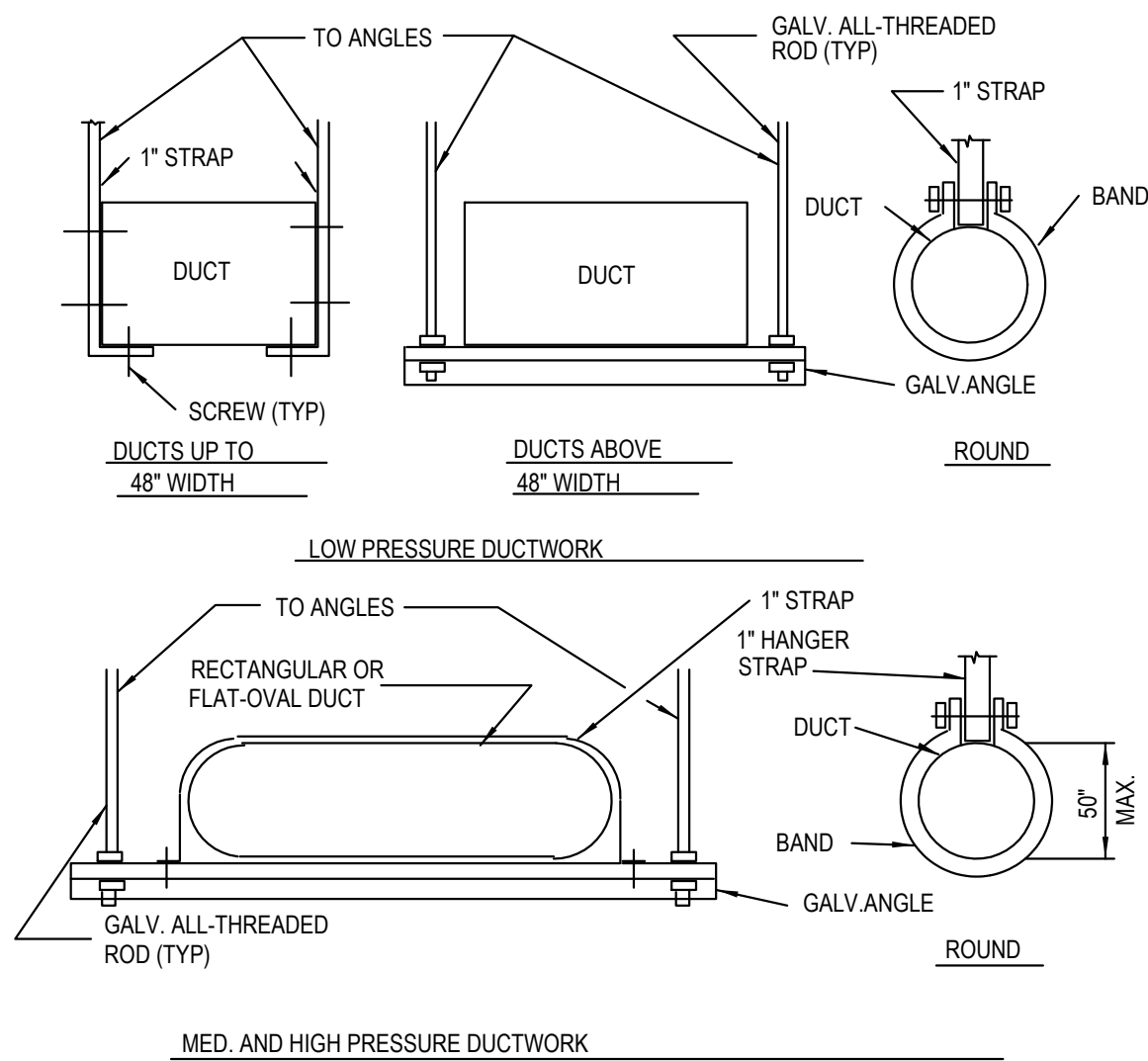


NOTE:

UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

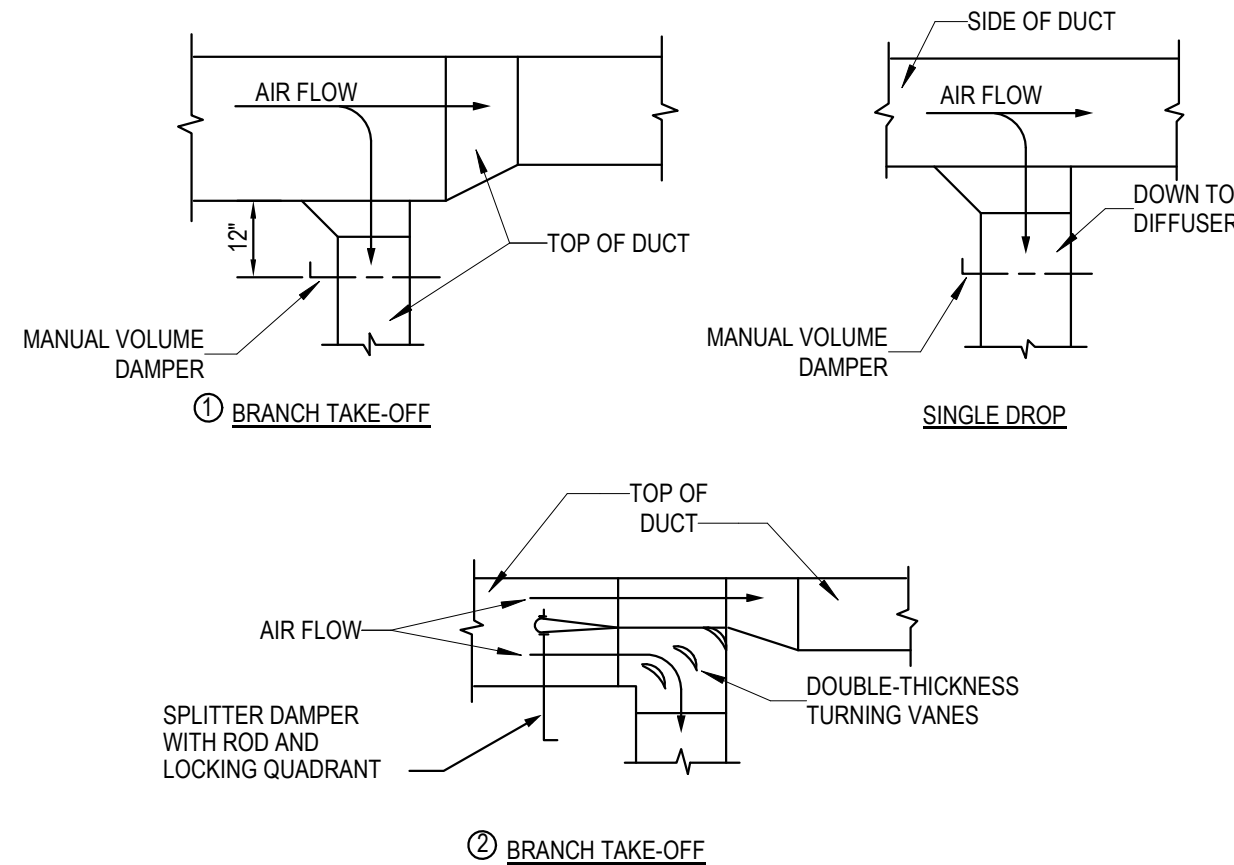
3 DUCTWORK TRANSITION

M003 NTS



2 DUCTWORK HANGERS

M003 NTS



NOTE:

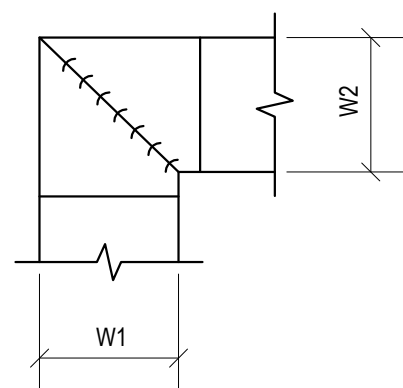
1. USE BRANCH TAKE-OFF ① WHEN MAIN AND BRANCH DUCTS ARE DIFFERENT DEPTHS

2. USE BRANCH TAKE-OFF ② WHEN MAIN AND BRANCH DUCTS ARE SAME DEPTHS

3. MANUAL VOLUME DAMPERS SHALL BE PROVIDED FOR ALL SUPPLY AND RETURN SINGLE DROP DUCT RUNS.

1 DUCT TAKE-OFF AND BRANCH DETAIL

M003 NTS



NOTES:

1. ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA

2. WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE THICKNESS VANE TYPE REGARDLESS OF W DIMENSION.

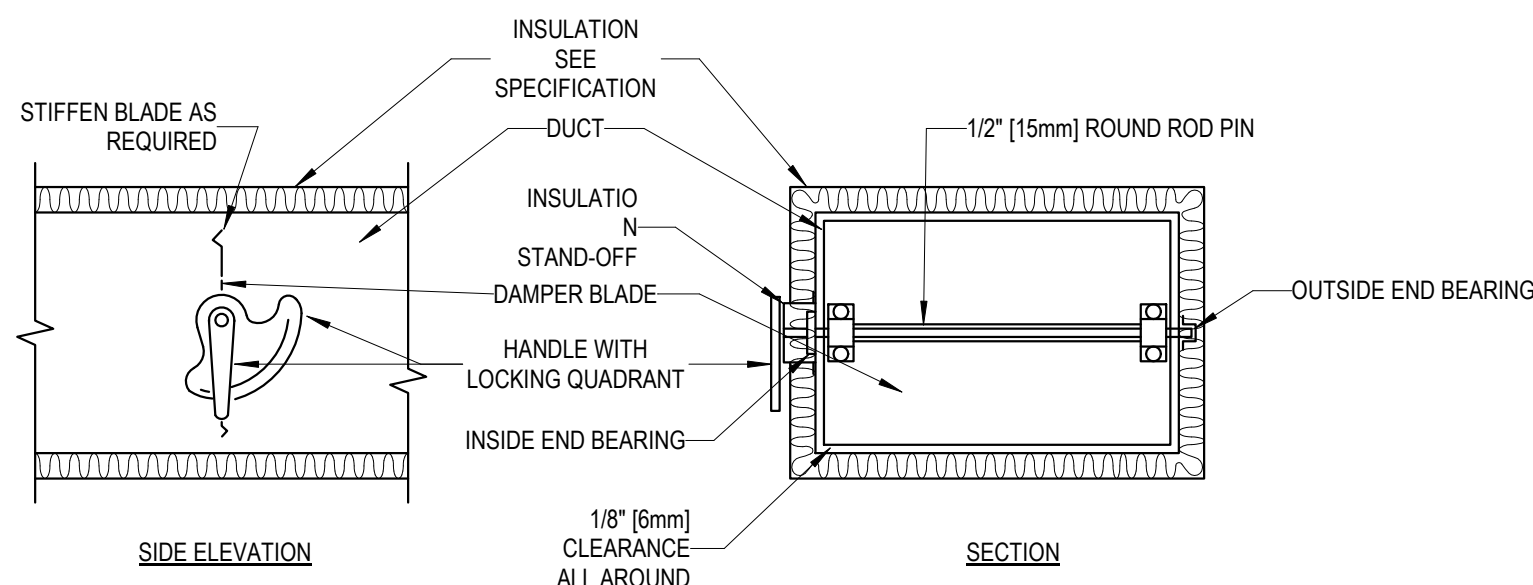
3. ALL SINGLE THICKNESS VANES SHALL HAVE A 2" [50mm] RADIUS, 1-1/2" [40mm] MAXIMUM SPACE BETWEEN VANES AND A 3/4" [20mm] TRAILING EDGE.

4. WHEN W EQUALS W2 AND W1 IS GREATER THAN 20" [500mm] VANES SHALL BE DOUBLE VANE TYPE.

5. INSTALL TURNING VANES AT ALL TURNS IN SUPPLY AIR AND RETURN AIR DUCTS.

5 TURNING VANES

M003 NTS



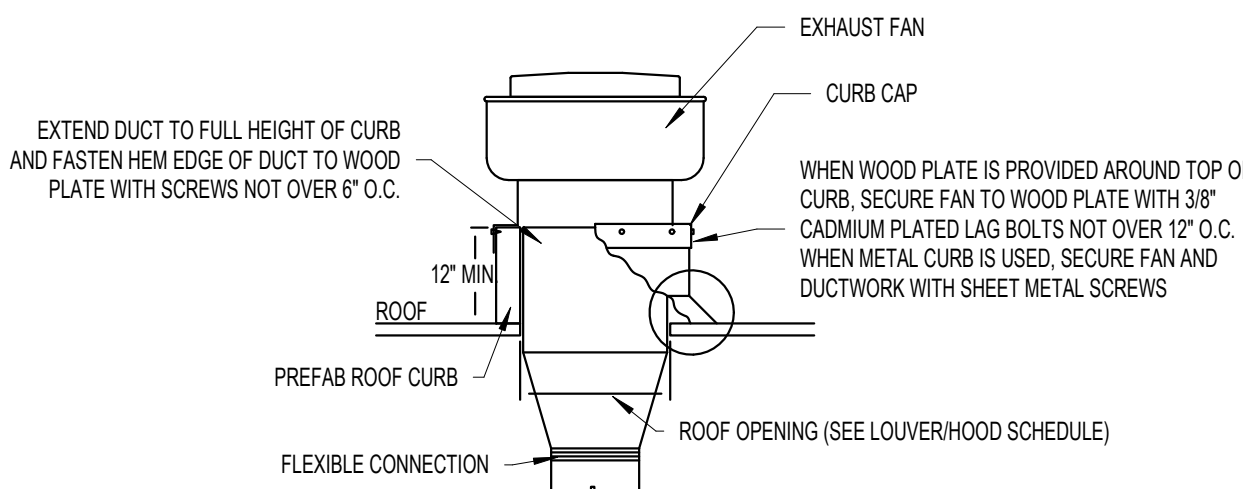
NOTE:

1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.

2. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

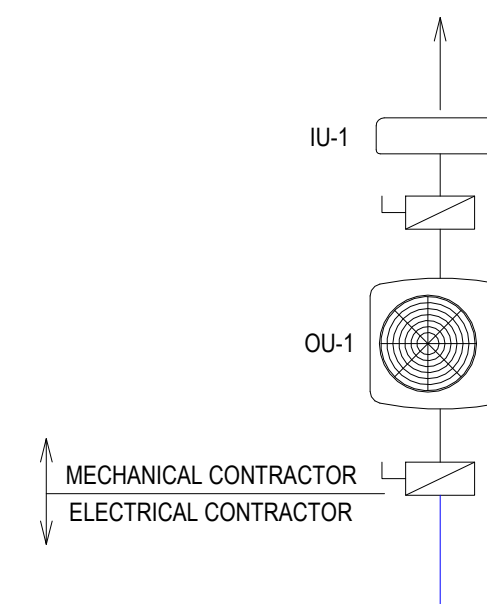
6 VOLUME DAMPER

M003 NTS



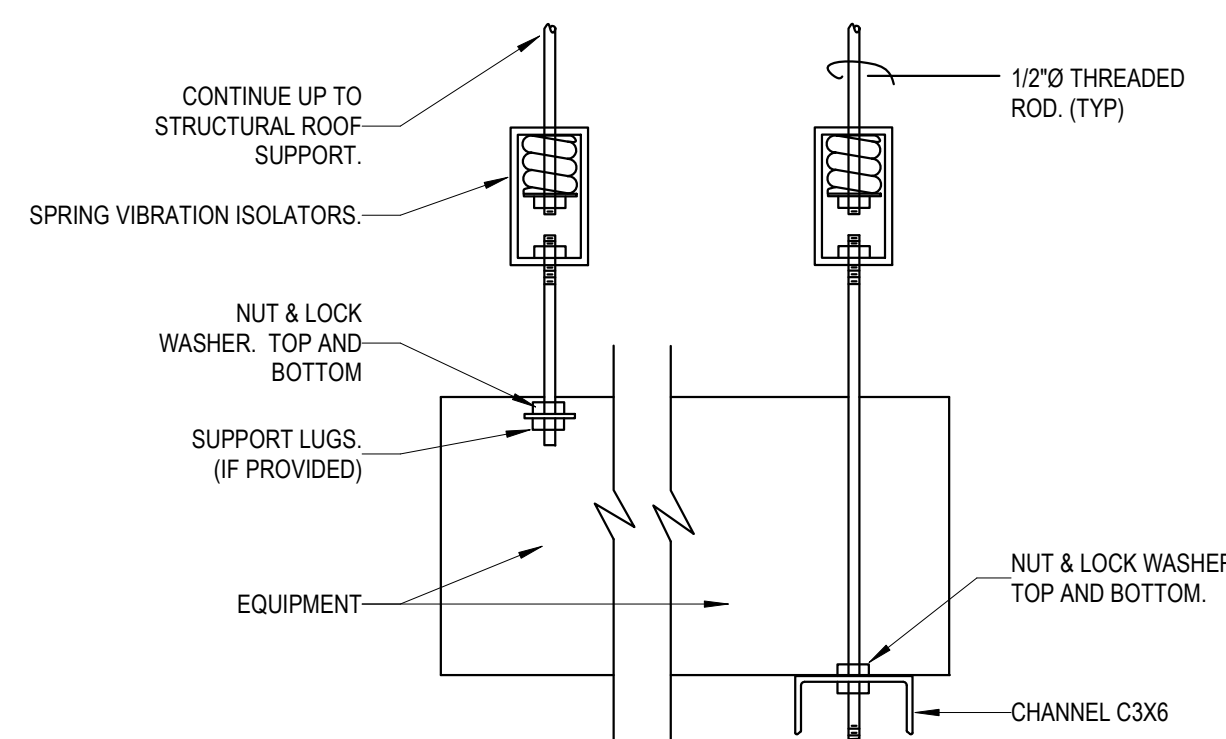
7 TYPICAL ROOF EXHAUST FAN DETAIL

M003 NTS



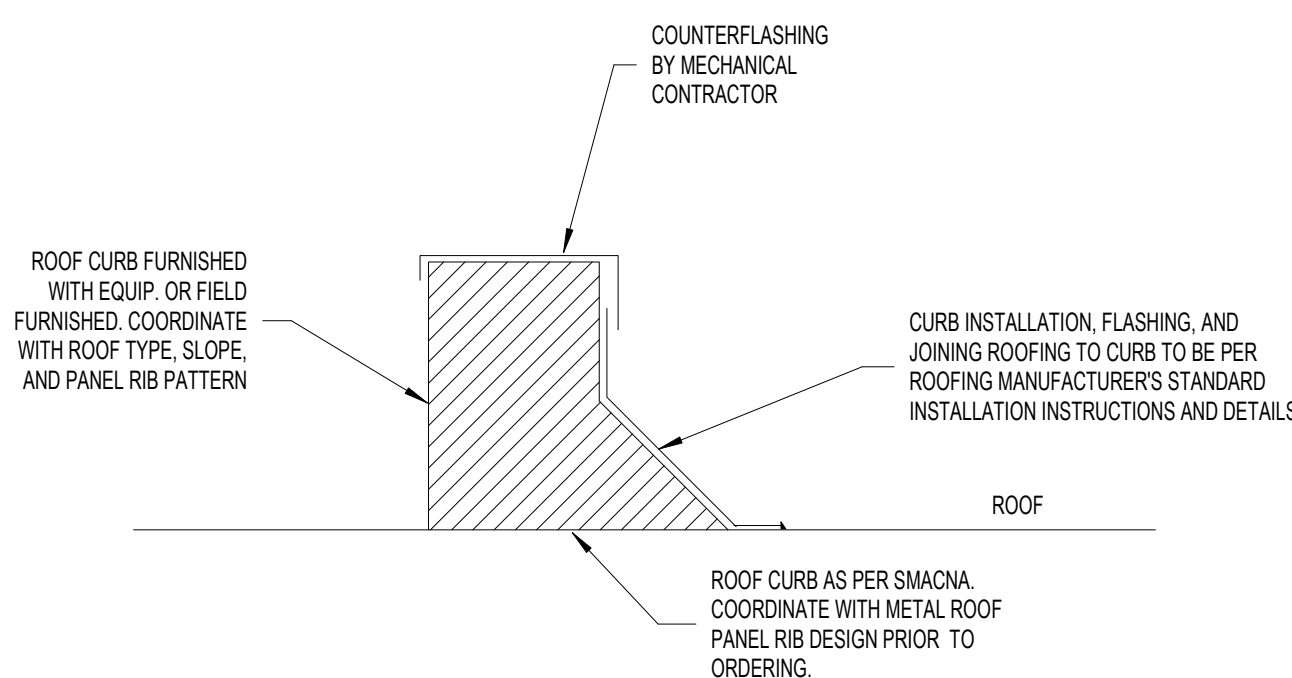
8 MINI SPLIT WIRING DIAGRAM

M003 NTS

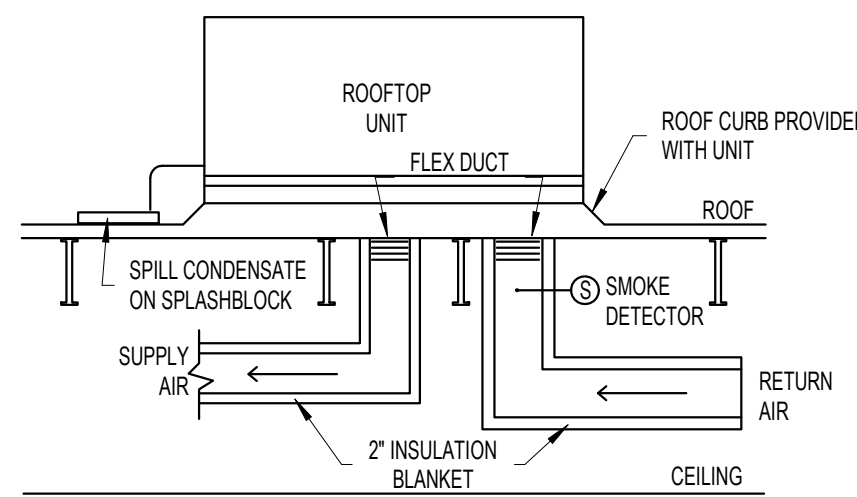


9 SUSPENDED EQUIPMENT SUPPORT

M003 NTS

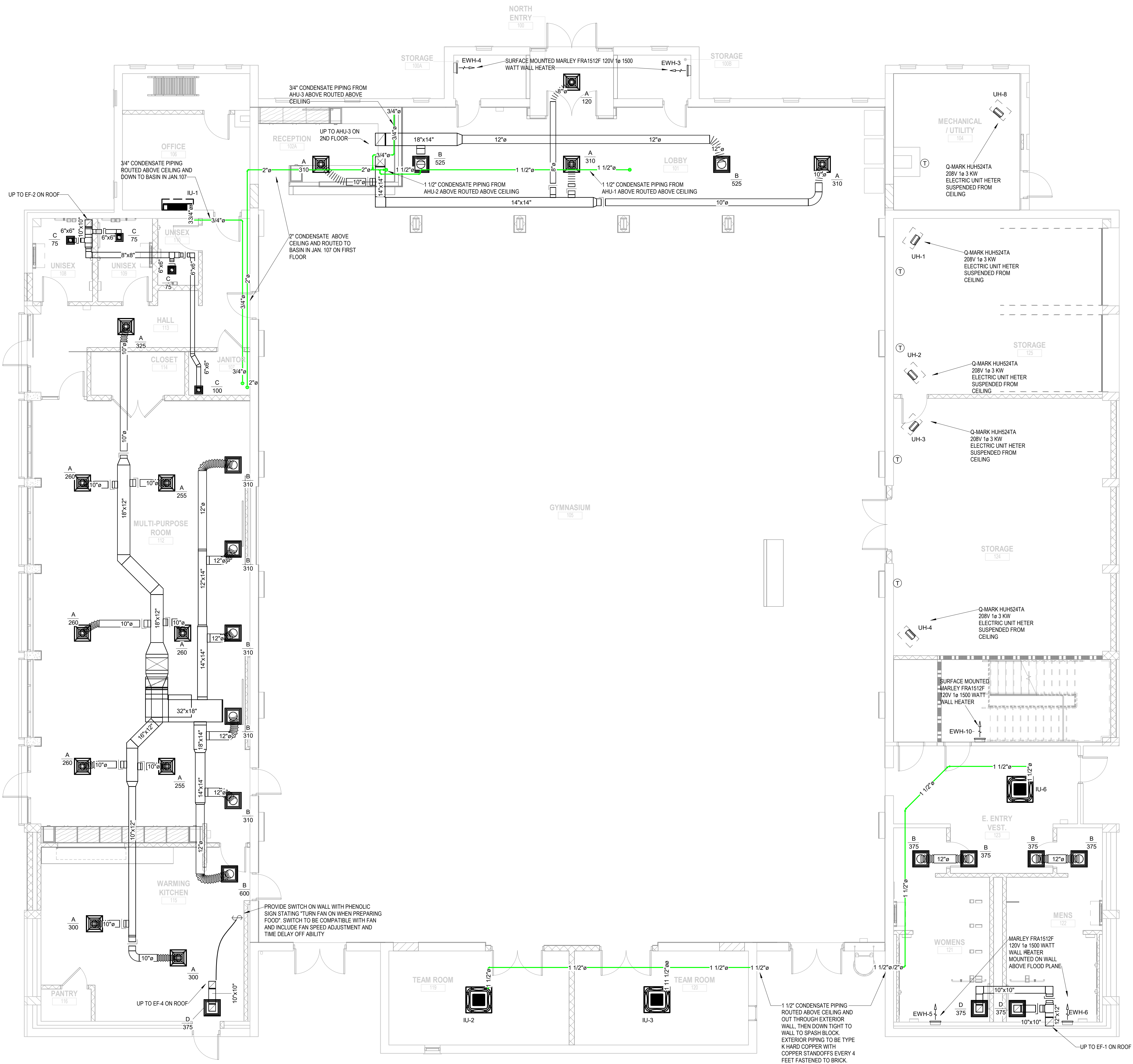


M - ROOF CURB DETAIL



M - TYPICAL ROOF TOP UNIT DETAIL

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1 MAIN LEVEL RENOVATION PLAN
3/16" = 1'-0"

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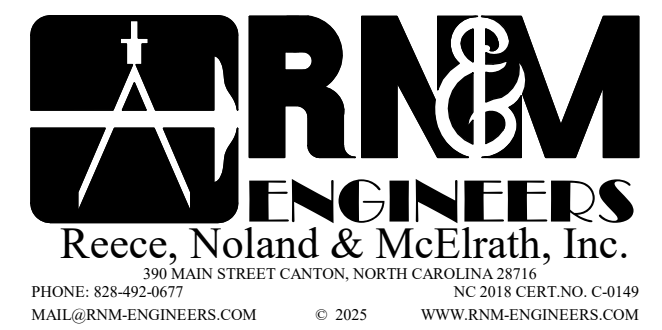
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RENOVATION

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PROJECT NO: 23029
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MECHANICAL MAIN
LEVEL RENOVATION
PLAN

M101

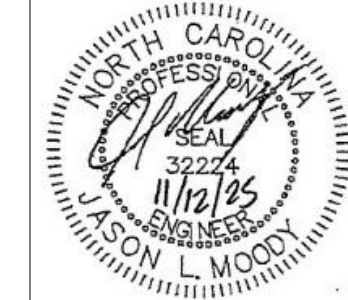
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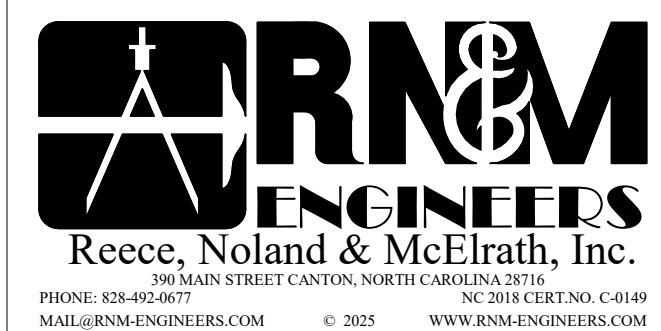
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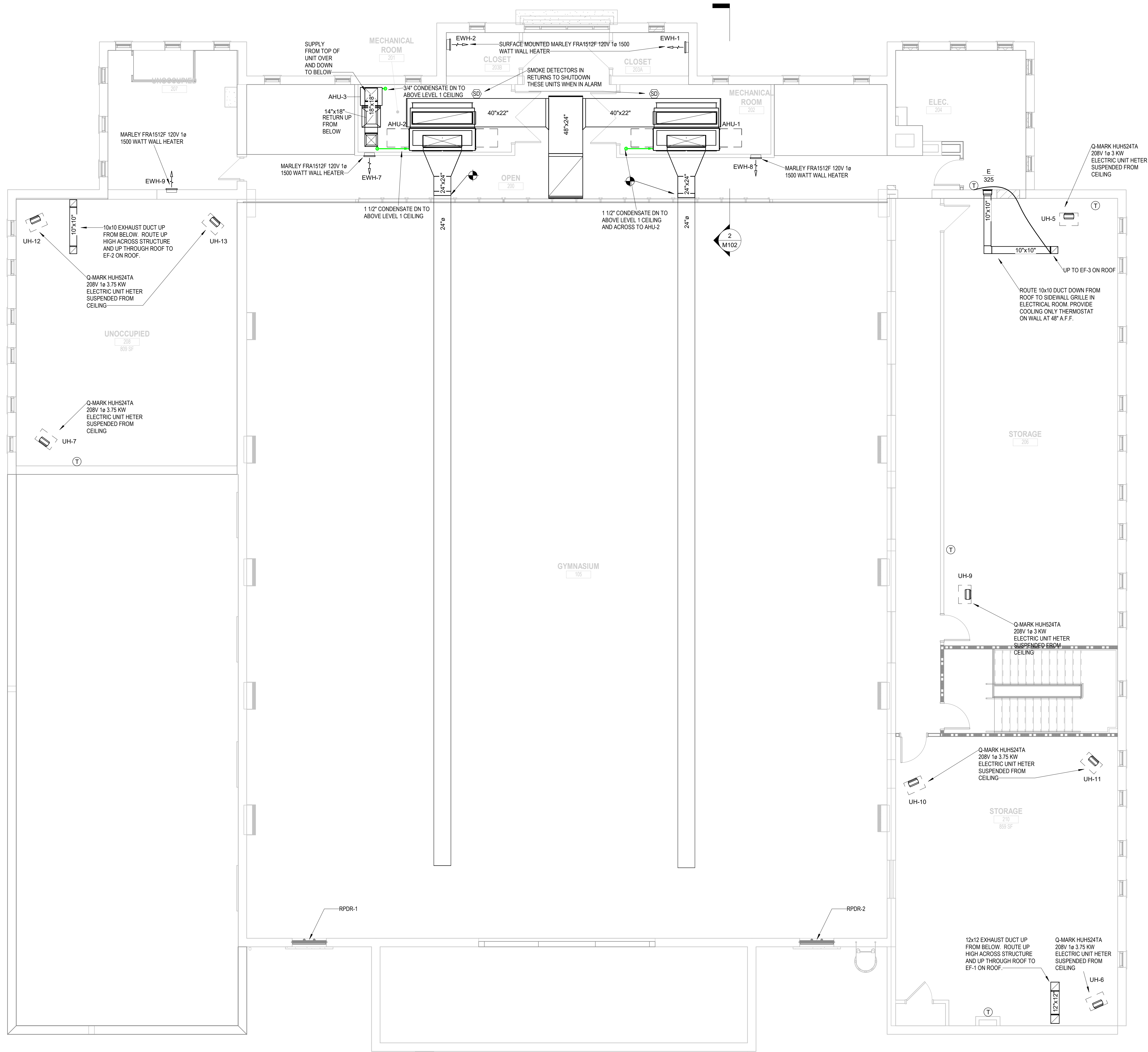
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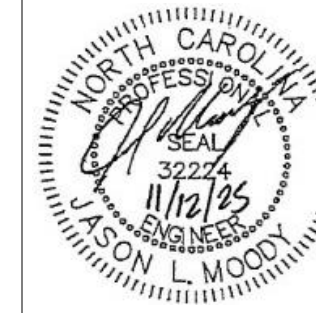
MECHANICAL UPPER
LEVEL RENOVATION
PLAN

M102

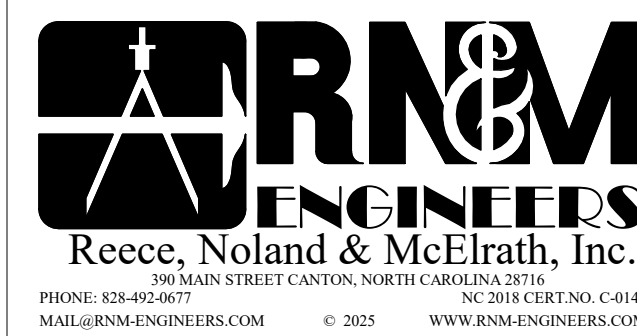


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M102
1/4" = 1'-0"

SPLIT SYSTEM SECTION



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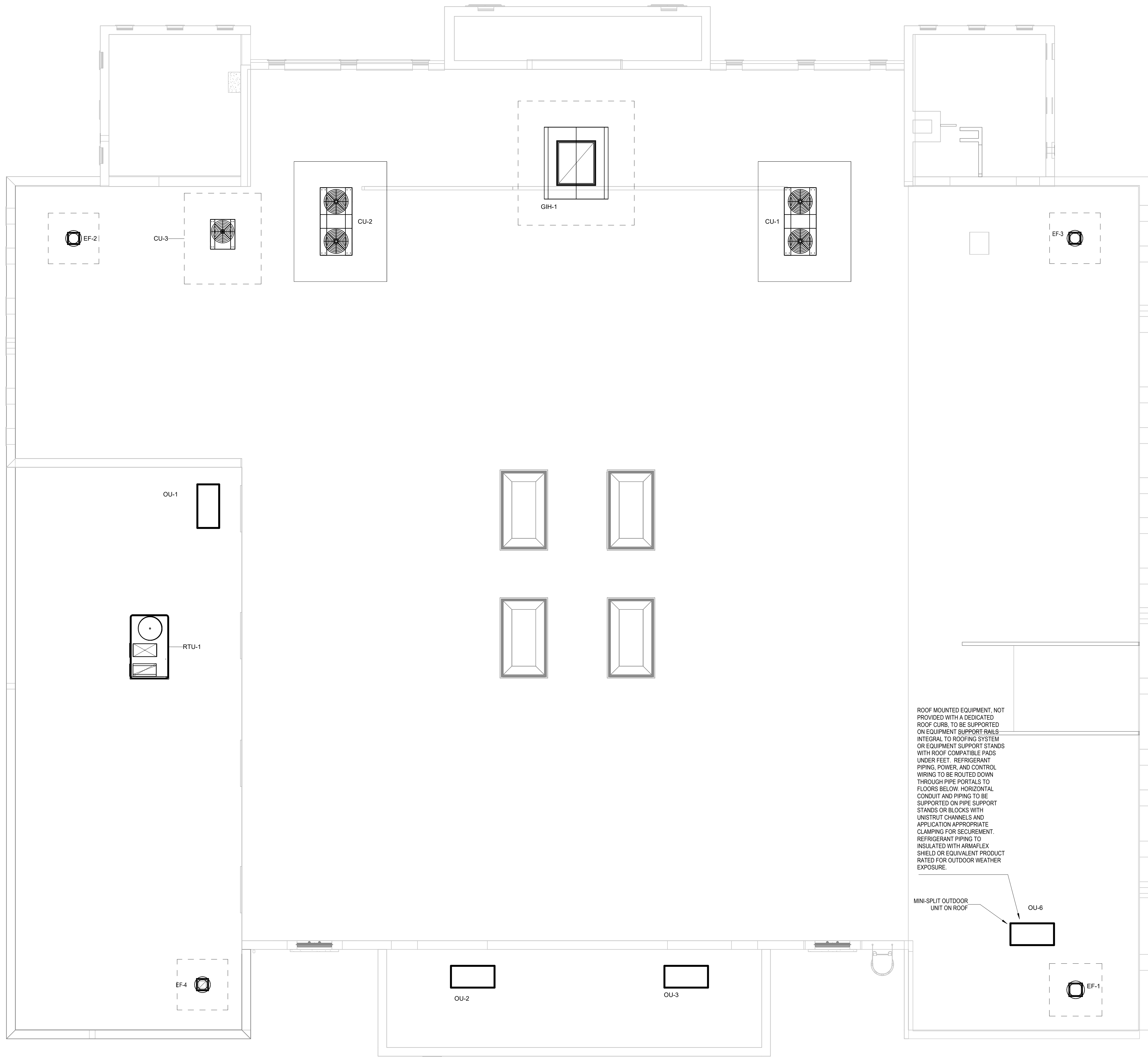
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MECHANICAL ROOF
RENOVATION PLAN

M103



ROOF MOUNTED EQUIPMENT, NOT
PROVIDED WITH A DEDICATED
ROOF CURB, TO BE SUPPORTED
ON EQUIPMENT SUPPORT RAILS;
INTEGRAL TO ROOFING SYSTEM
OR EQUIPMENT SUPPORT STANDS
WITH ROOF COMPATIBLE PADS
UNDER FEET. REFRIGERANT
PIPING, POWER, AND CONTROL
WIRING TO BE ROUTED DOWN
THROUGH PIPE PORTALS TO
FLOORS BELOW. HORIZONTAL
CONDUIT AND PIPING TO BE
SUPPORTED ON PIPE SUPPORT
STANDS OR BLOCKS WITH
UNISTRUT CHANNELS AND
APPLICATION APPROPRIATE
CLAMPING FOR SECUREMENT.
REFRIGERANT PIPING TO
INSULATED WITH ARMAFLEX
SHIELD OR EQUIVALENT PRODUCT
RATED FOR OUTDOOR WEATHER
EXPOSURE.

MINI-SPLIT OUTDOOR
UNIT ON ROOF

OU-6

EF-1

OU-2

OU-3

EF-4

RTU-1

OU-1

GH-1

CU-1

CU-2

CU-3

EF-2

EF-3

1 RNM - ROOF PLAN
M103 3/16" = 1'-0"

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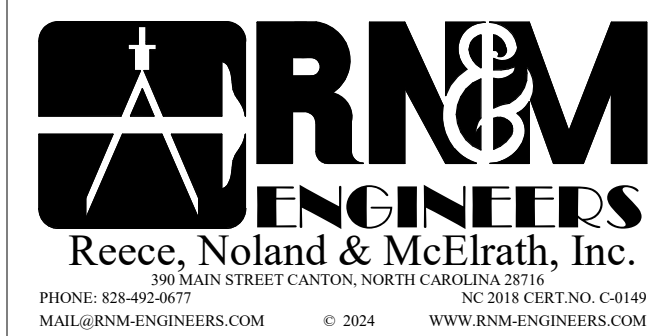
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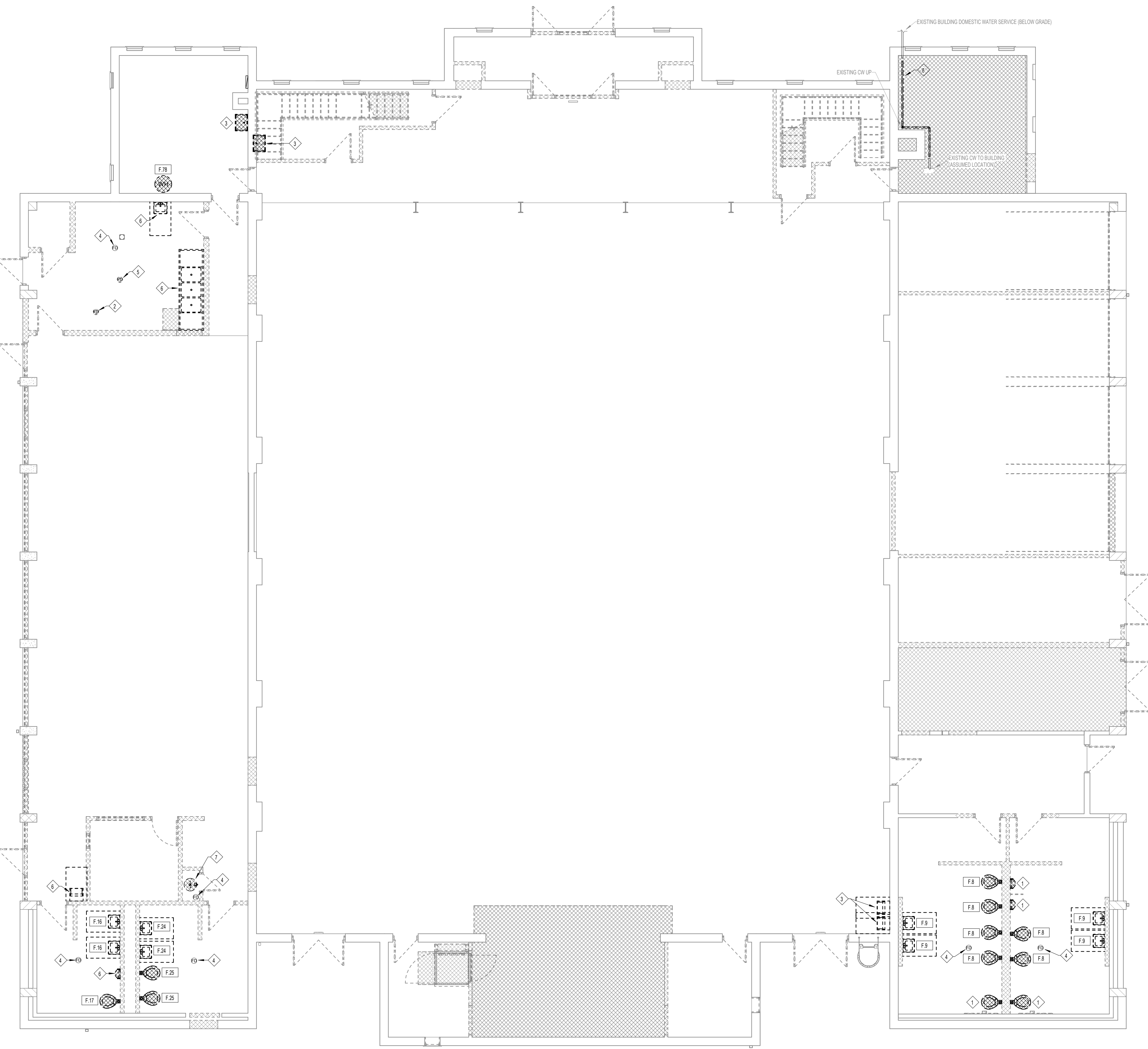
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MAIN LEVEL PLUMBING
DEMOLITION PLAN

PD101

KEYED FEMA PLUMBING DEMOLITION NOTES	
SEE ARCHITECTURAL SHEET "GF-101" FOR FEMA ITEM DESCRIPTIONS. NOTES BELOW APPLY TO THIS SHEET ONLY AND INCLUDE SPECIFIC WORK RELATED TO PLUMBING	
F.8	EXISTING TOILET TO BE REMOVED AND DISPOSED OF AS DIRECTED BY OWNER. EXISTING PLUMBING ROUGH-INS TO REMAIN AND BE REWORKED AS NEEDED FOR NEW FIXTURES. SEE NEW PLAN FOR ADDITIONAL DETAILS.
F.9	EXISTING LAVATORY TO BE REMOVED AND DISPOSED OF AS DIRECTED BY OWNER. REMOVE EXISTING PLUMBING ROUGH-INS BACK TO WALL CAVITY. PREPARE EXISTING PIPING FOR RECONNECTION TO NEW PIPING FOR NEW LAVATORIES. SEE NEW PLAN FOR ADDITIONAL DETAILS. FIELD VERIFY EXACT LOCATIONS AND CONDITIONS.
F.16	EXISTING LAVATORY TO BE REMOVED AND DISPOSED OF AS DIRECTED BY OWNER. REMOVE EXISTING WATER SUPPLIES AND VENT PIPING BACK TO NEXT INTERSECTION AND CAP. REMOVE EXISTING WASTE PIPING BACK TO MAIN AND CAP. NO DEAD END PIPING ALLOWED. FIELD VERIFY EXACT LOCATIONS AND CONDITIONS.
F.17	EXISTING TOILET TO BE REMOVED AND DISPOSED OF AS DIRECTED BY OWNER. REMOVE EXISTING WATER SUPPLY AND VENT PIPING BACK TO NEXT INTERSECTION AND CAP. REMOVE EXISTING WASTE PIPING BACK TO MAIN AND CAP. NO DEAD END PIPING ALLOWED. FIELD VERIFY EXACT LOCATIONS AND CONDITIONS.
F.24	EXISTING LAVATORY TO BE REMOVED AND DISPOSED OF AS DIRECTED BY OWNER. REMOVE EXISTING WATER SUPPLIES AND VENT PIPING BACK TO NEXT INTERSECTION AND CAP. REMOVE EXISTING WASTE PIPING BACK TO MAIN AND CAP. NO DEAD END PIPING ALLOWED. FIELD VERIFY EXACT LOCATIONS AND CONDITIONS.
F.25	EXISTING TOILET TO BE REMOVED AND DISPOSED OF AS DIRECTED BY OWNER. REMOVE EXISTING WATER SUPPLY AND VENT PIPING BACK TO NEXT INTERSECTION AND CAP. REMOVE EXISTING WASTE PIPING BACK TO MAIN AND CAP. NO DEAD END PIPING ALLOWED. FIELD VERIFY EXACT LOCATIONS AND CONDITIONS.
F.78	EXISTING WATER HEATER TO BE REMOVED AND DISPOSED OF AS DIRECTED BY OWNER. REMOVE EXISTING COLD WATER SUPPLY BACK TO THE NEXT INTERSECTION AND CAP TO PREVENT ANY DEAD END PIPING. EXISTING ASSOCIATED HOT WATER PIPING TO BE REMOVED. FIELD VERIFY EXACT LOCATIONS AND CONDITIONS.

KEYED PLUMBING DEMOLITION NOTES	
NOTES APPLY TO THIS SHEET ONLY	
1	EXISTING PLUMBING FIXTURES TO BE REMOVED AND DISPOSED OF AS DIRECTED BY OWNER. EXISTING PLUMBING ROUGH-INS TO REMAIN AND BE REWORKED AS NEEDED FOR NEW FIXTURES. SEE NEW PLAN FOR ADDITIONAL DETAILS. FIELD VERIFY EXACT LOCATIONS AND CONDITIONS.
2	EXISTING FLOOR DRAIN TO BE REMOVED AND DISPOSED OF AS DIRECTED BY OWNER. REMOVE WASTE BACK TO MAIN AND CAP TO PREVENT ANY DEAD END PIPING. FIELD VERIFY EXACT LOCATIONS AND CONDITIONS.
3	EXISTING PLUMBING FIXTURE TO BE REMOVED AND DISPOSED OF AS DIRECTED BY OWNER. REMOVE EXISTING WATER SUPPLY AND VENT PIPING BACK TO NEXT INTERSECTION AND CAP TO PREVENT ANY DEAD END PIPING. INSTALL NEW WALL CLEANOUT ON EXISTING WASTE PIPING. FIELD VERIFY EXACT LOCATIONS AND CONDITIONS.
4	EXISTING FLOOR DRAIN TO REMAIN IN PLACE. REMOVE AND REPLACE EXISTING GRATE WITH NEW GRATE TO MATCH FINISH OF NEW FLOOR DRAINS BEING SPECIFIED. SEE PLUMBING FIXTURE SCHEDULE SHEET P100 FOR ADDITIONAL INFORMATION. FIELD VERIFY EXACT LOCATIONS AND CONDITIONS.
5	EXISTING FLOOR CLEANOUT TO BE REMOVED AND DISPOSED OF AS DIRECTED BY OWNER. REMOVE WASTE BACK TO MAIN AND CAP TO PREVENT ANY DEAD END PIPING. FIELD VERIFY EXACT LOCATIONS AND CONDITIONS.
6	EXISTING PLUMBING FIXTURE TO BE REMOVED AND DISPOSED OF AS DIRECTED BY OWNER. REMOVE EXISTING WATER SUPPLY AND VENT PIPING BACK TO NEXT INTERSECTION AND CAP. REMOVE EXISTING WASTE PIPING BACK TO MAIN AND CAP. NO DEAD END PIPING ALLOWED. FIELD VERIFY EXACT LOCATIONS AND CONDITIONS.
7	EXISTING WATER HEATER TO BE REMOVED AND DISPOSED OF AS DIRECTED BY OWNER. REMOVE EXISTING WATER SUPPLIES BACK TO THE NEXT INTERSECTION AND CAP TO PREVENT ANY DEAD END PIPING. FIELD VERIFY EXACT LOCATIONS AND CONDITIONS.
8	EXISTING DOMESTIC WATER MAIN TO BE REWORKED TO NEW WATER SERVICE LOCATION (SEE NEW PLAN FOR LOCATION). REMOVE ANY EXISTING VALVES FOUND. SEE NEW PLAN FOR NEW PIPING AND CONNECTION TO EXISTING. PIPING LOCATION IS ASSUMED. FIELD VERIFY EXACT LOCATIONS AND CONDITIONS.



1 MAIN LEVEL PLUMBING DEMOLITION PLAN
PD101 3/16" = 1'-0"



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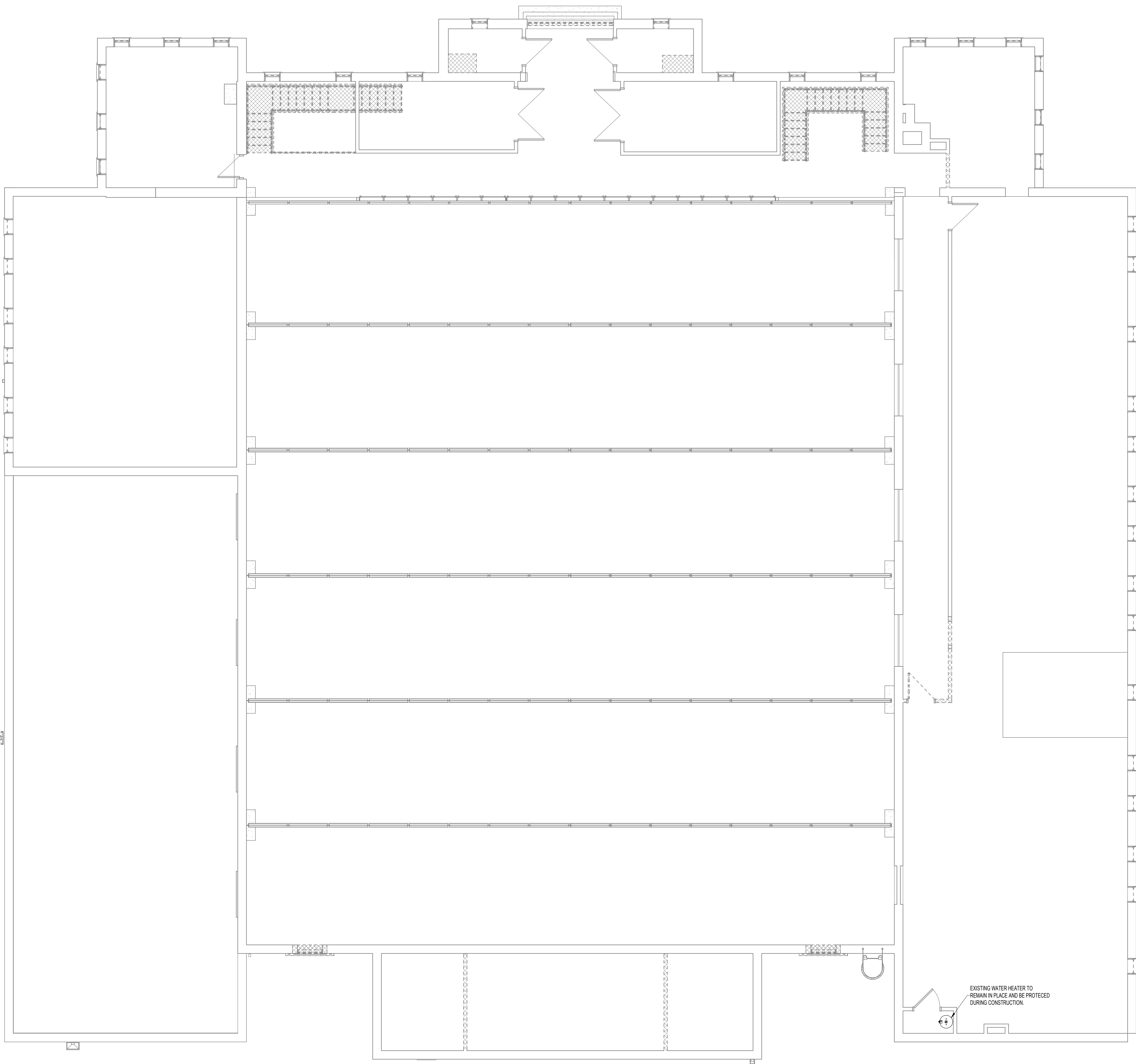
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1 UPPER LEVEL PLUMBING DEMOLITION PLAN
PD102 3/16" = 1'-0"



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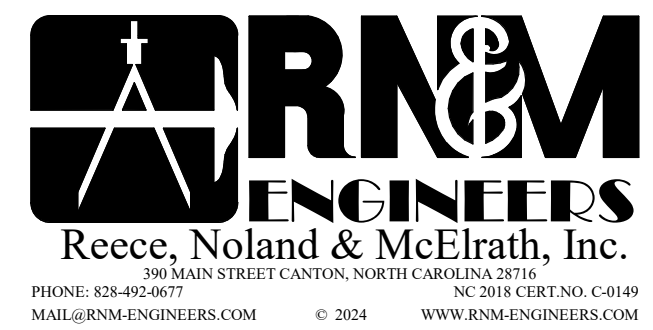
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UPPER LEVEL PLUMBING
DEMOLITION PLAN

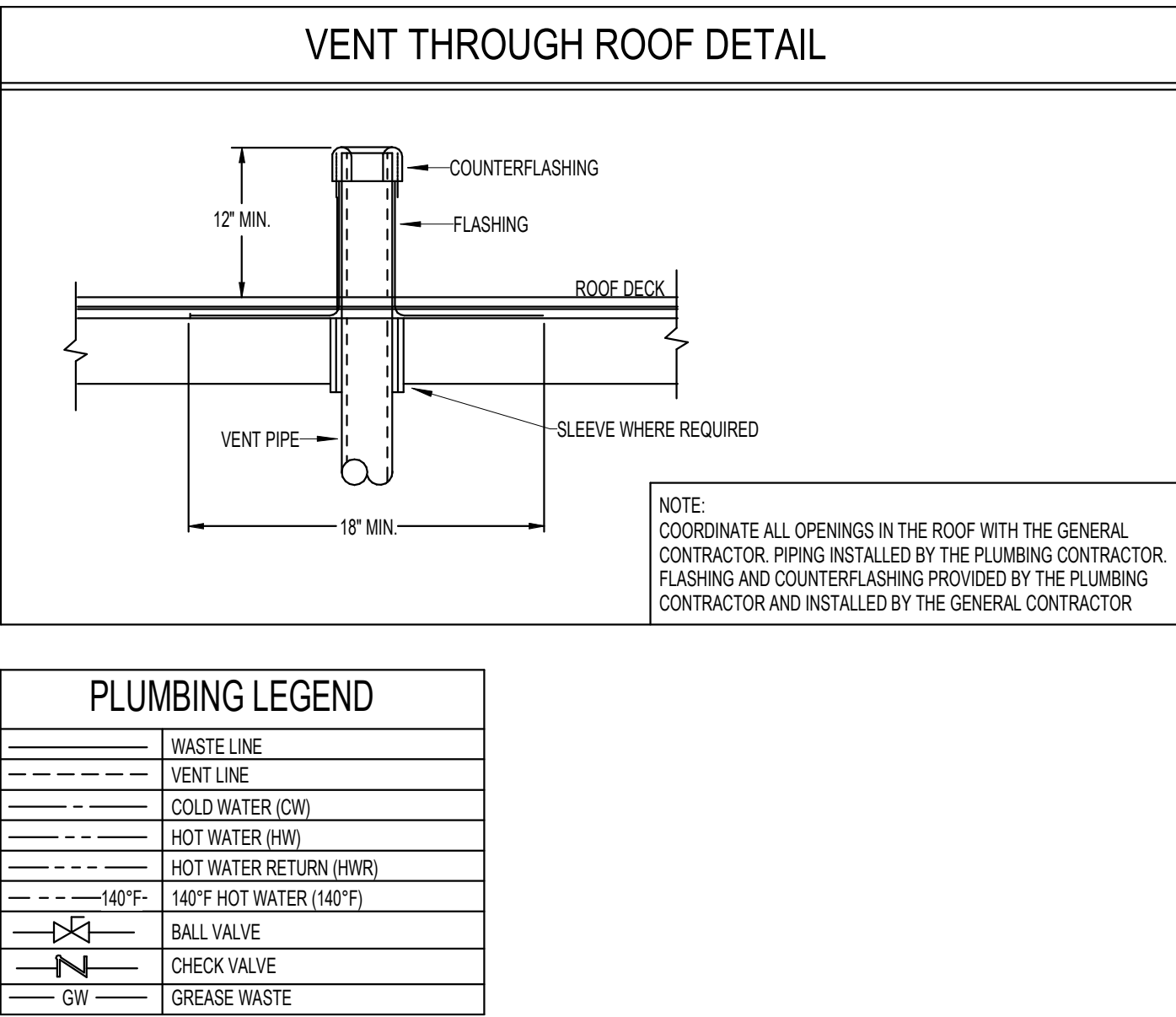
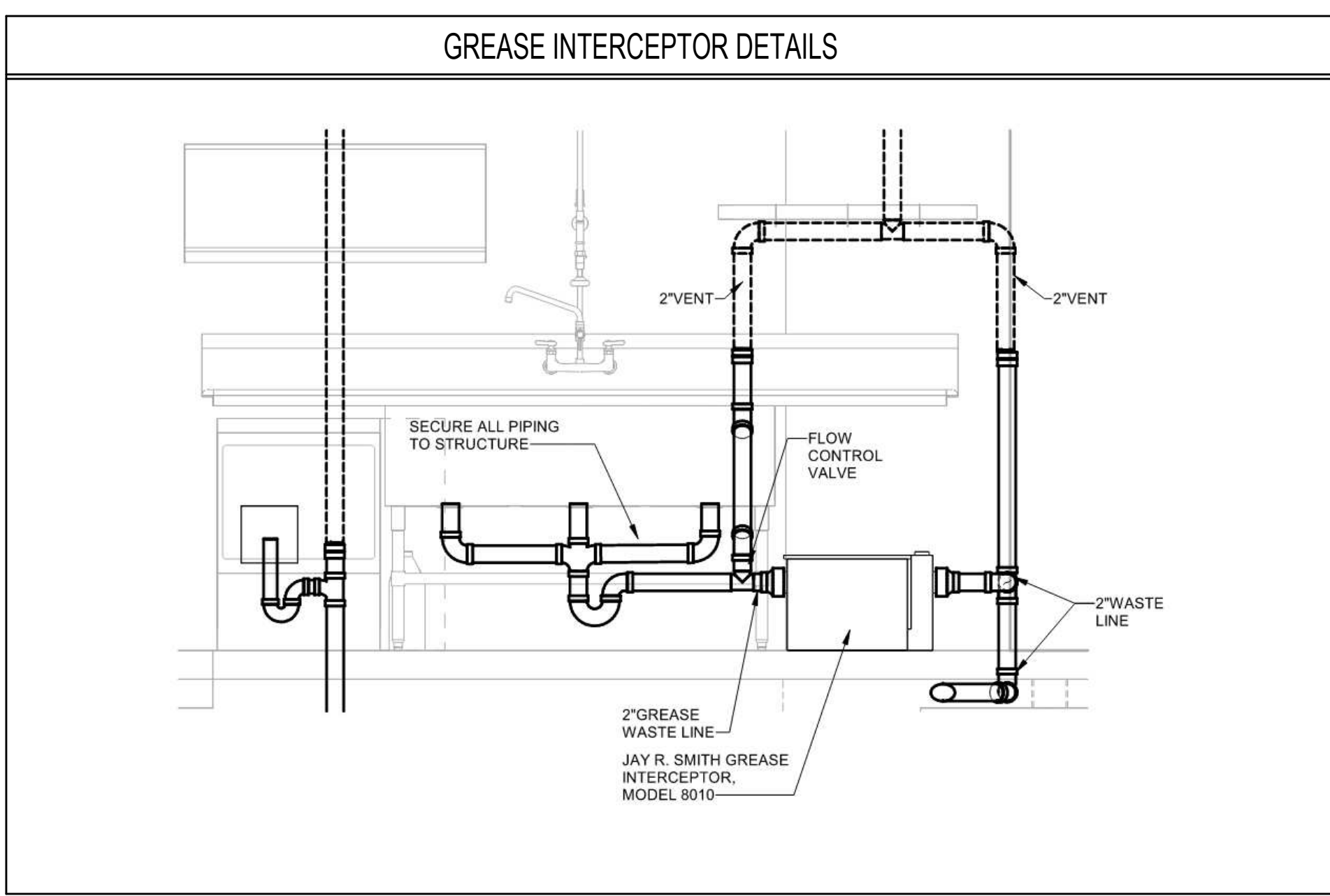
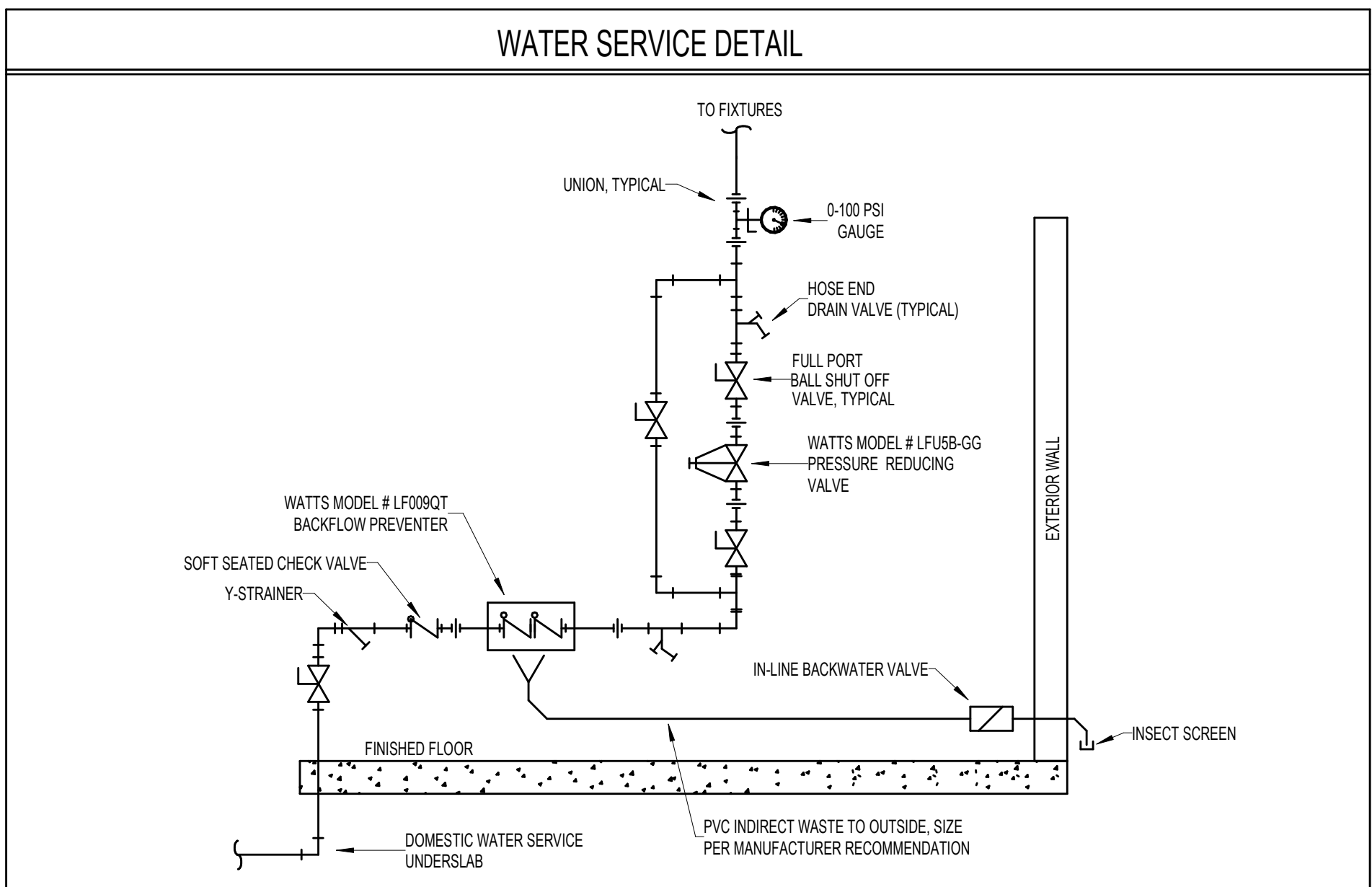
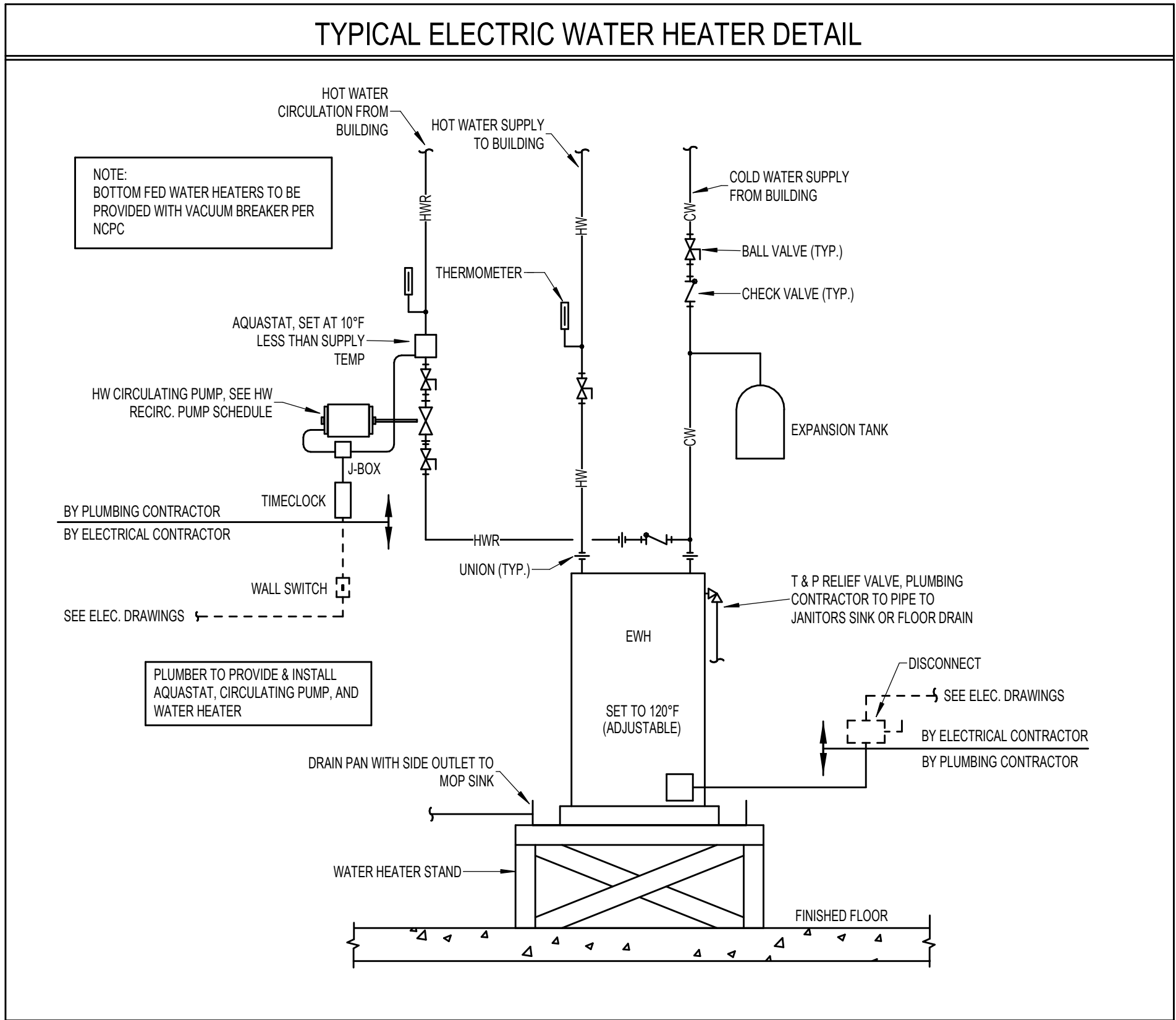
PD102

PLUMBING FIXTURE SCHEDULE & SPECIFICATIONS									
ITEM	FIXTURE	ACCESSORIES	WASTE	VENT	TRAP	HW	CW	RECYCLE VALVE	MOUNTING HGT.
P1	WATER CLOSET: FLUSH VALVE TYPE KOHLER MODEL # K-46053-S-0 "WELLCOMME ULTRA" VITREOUS CHINA COORDINATE COLOR W/ARCHITECT	- SLOAN ROYAL 111-1.6 FLUSH VALVE 1.6 GPF - BEMIS # 2155SCT TOILET SEAT	4"	2"	INT.	---	1"	INT.	FL MTD. - 15 1/4" A.F.F. TO RIM SEE NOTE 1
P1A	ADA WATER CLOSET: FLUSH VALVE TYPE KOHLER MODEL # K-46057-S-0 "HIGHLUFF ULTRA" VITREOUS CHINA COORDINATE COLOR W/ARCHITECT	- SLOAN ROYAL 111-1.6 FLUSH VALVE 1.6 GPF - BEMIS # 2155SCT TOILET SEAT	4"	2"	INT.	---	1"	INT.	FL MTD. - 16 7/8" A.F.F. TO RIM SEE NOTE 1
P2	ADA LAVATORY: WALL HUNG (0.5 GPM) KOHLER MODEL # K-199-4 "BRENHAM" VITREOUS CHINA (W/ SHROUD) COORDINATE COLOR W/ARCHITECT	- SYMMONS # S-20-2-G-W-5 FAUCET SET - MCGUIRE BALL VALVE STOPS AND SUPPLIES - 17 GA. CHROME PLATED P-TRAP - CONCEALED FLOOR CARRIER	2"	2"	1 1/4"	1/2"	1/2"	3/8"	WALL HUNG- SEE ARCH. ELEVATIONS
P3	URINAL: WALL HUNG KOHLER MODEL # K-491-ET "BARDON" VITREOUS CHINA	- SLOAN MODEL# 186-0.5 FLUSH VALVE 0.5 GPF - CONCEALED ARM FLOOR CARRIER	2"	2"	INT.	---	3/4"	INT.	WALL HUNG- SEE ARCH. ELEVATIONS
P4	ADA WATER COOLER: WALL HUNG ELKAY MODEL # LZSTLWIS(VR) COORDINATE COLOR W/ARCHITECT	- MCGUIRE BALL VALVE STOPS AND SUPPLIES - CHROME PLATED 17 GA P-TRAP - ADA APRON AND SUPPORT CARRIER - "TOUCHLESS" ACTIVATION BOTTLE FILLER (GFO TO BE ACCESSIBLE WITHOUT USE OF TOOLS. COORDINATE ROUGH IN WITH ELECTRICAL CONTRACTOR)	2"	2"	1 1/4"	---	1/2"	3/8"	WALL HUNG PER ADA REQUIREMENTS
P5	JANITORS SINK: FLOOR MOUNTED FIAT MODEL # T83500 PRECAST TERRAZZO	- DELTA FAUCET MODEL # 28C284-AC FAUCET SET - STAINLESS STEEL CAP ON ALL CURBS - FIAT # 88-CC MOP HANGER - FIAT # 832-AA HOSE & HOSE BRACKET	3"	2"	3"	1/2"	1/2"	3/8"	FLOOR MOUNTED FAUCET AT 48" A.F.F.
P6	HOSE BIBB - INTERIOR WOODFORD # 24-CH-LOOSE KEY	- FURNISH COMPLETE	---	---	---	---	1/2"	---	WALL MOUNTED 18" A.F.F.
P7	FLOOR DRAIN SIOUX CHIEF MODEL # 633-630/NQ/VH "FINISHLINE" - DUCTILE / CAST IRON	DUCTILE IRON HEAD ADAPTOR, CORING SLEEVE, AND CLAMPING COLLAR. CAST IRON BASE ADAPTOR. HIGH-IMPACT POLYMER CORING PLUG. FLASHING COLLAR. BOTTOM OUTLET, ADJUSTABLE SQUARE TOP NICKEL BRONZE STRAINER, LEVELING SHIM KIT, FLEXIBLE LOCATING BRISTLES, STAINLESS MESH DEBRIS BASKET, AND ROUND NICKEL BRONZE FUNNEL (AS NEEDED).	3"	2"	3"	---	---	---	MTD FLUSH WITH FLOOR
P7A	FLOOR SINK SIOUX CHIEF SERIES 861 "FINISHLINE" - DUCTILE / CAST IRON	- FURNISH COMPLETE. COORDINATE GRATE WITH EQUIPMENT REQUIREMENTS.	3"	2"	3"	---	---	---	MTD FLUSH WITH FLOOR
P8	FLOOR CLEANOUT SIOUX CHIEF MODEL # 634-630/NQ/VB "FINISHLINE" - DUCTILE / CAST IRON	DUCTILE IRON HEAD ADAPTOR, CORING SLEEVE, AND CLAMPING COLLAR. HIGH-IMPACT POLYMER CORING PLUG. ADJUSTABLE ROUND NICKEL BRONZE TOP. BRASS CLEANOUT PLUG. CARPET MARKER (AS REQUIRED). LEVELING SHIM KIT, AND FLEXIBLE LOCATING BRISTLE KIT	PIPE SIZE	---	---	---	---	---	MTD FLUSH WITH FLOOR
P9	WATER SUPPLY BOX: RECESSED MOUNTED GUY GRAY MODEL # S3S81 STAINLESS STEEL	- FURNISH COMPLETE - SUPPLY CONNECTIONS TO ICE MAKING EQUIPMENT TO BE COPPER TUBING.	---	---	---	---	1/2"	---	WALL RECESSED
NOTES: 1. FLUSH VALVE HANDLES SHALL BE TO THE WIDE SIDE OF TOILET STALL PER N.C. ACCESSIBILITY CODE. 2. INSTALL CHECK VALVES ON ALL COLD WATER AND HOT WATER SUPPLIES TO JANITORS SINKS. 3. ALL HANDCAP SINKS TO BE PROVIDED WITH OFFSET TAILPIECE. 4. ALL HANDCAP SINK/LAVATORIES TO HAVE MCGUIRE # P4212WC/PDRO SEAMLESS PREWRAPPED P-TRAP AND SUPPLY INSULATION KIT 5. COORDINATE ALL INSTALLATION OF SINKS WITH CASEWORK SHOP DRAWINGS PRIOR TO ORDERING. 6. FOR ALL HANDWASHING SINKS/LAVATORIES, USE 1070 TEMPERATURE LIMITING DEVICES TO BE INCLUDED AT POINT OF USE TO PROVIDE "TEMPERED WATER", (UNLESS DEVICE(S) ARE PROVIDED AT THE HW PLANT / PRODUCTION SOURCE AS REQUIRED BY NC PLUMBING CODE.									

ELECTRIC WATER HEATER SCHEDULE					
ITEM	MANUFACTURER & MODEL NUMBER	ACCESSORIES/REMARKS	STORAGE CAPACITY (GALLONS)	RECOVERY RATE G.P.H.	ELECTRIC REQUIREMENTS
EW-H1	BRADFORD WHITE MODEL # LE39263-5	REFERENCE "TYPICAL ELECTRIC WATER HEATER DETAIL"	50	62 GPH @ 80°F RISE	240V, 3ø, 12kW

HOT WATER RECIRCULATING PUMP SCHEDULE					
ITEM	MANUFACTURER & MODEL NUMBER	CAPACITY G.P.M.	HEAD	TYPE	MATERIAL
RCP-1	TACO MODEL # 1010	4	10	IN-LINE	STAINLESS STEEL

GENERAL PLUMBING NOTES	
1. THIS CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND PLACEMENTS OF PLUMBING FIXTURES AND EQUIPMENT WITH THE SITE AND ARCHITECTURAL DRAWINGS, INCLUDING REFLECTED CEILING PLANS, INTERIOR ELEVATIONS, DETAILS, AND SECTIONS PRIOR TO ROUGH-IN OR RELOCATE AS DIRECTED BY THE DESIGNER/ENGINEER AT NO ADDITIONAL COST TO THE OWNER.	
2. ALL PIPING, FIXTURES, EQUIPMENT, ETC. SHOWN ON THESE DRAWINGS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODE REQUIREMENTS.	
3. ALL PIPING, SLEEVES, INSERTS, AND OTHER ROUGH-IN MATERIALS SHALL BE INSTALLED AS BUILDING CONSTRUCTION PROGRESSES.	
4. PIPE HANGERS SHALL BE SIZED SO THAT INSULATION IS CONTINUOUS AT ALL HANGERS.	
5. THIS CONTRACTOR SHALL COORDINATE WITH ALL OTHER CONTRACTORS AND TRADES TO LOCATE HIS WORK TO AVOID CONFLICTS.	
6. EXISTING SERVICES INDICATED ON THESE DRAWINGS WERE REPRODUCED FROM EXISTING DRAWINGS AND LIMITED SITE OBSERVATIONS/VERIFICATION. THESE DRAWINGS MAY NOT BE ALL INCLUSIVE OF SERVICES THAT EXIST IN THE AREA OF WORK. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND LOCATIONS PRIOR TO CONSTRUCTION. ANY DIFFERENCE THAT IMPACT WORK SHOWN ON THESE DRAWINGS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR COORDINATION PRIOR TO CONSTRUCTION.	
7. CLEAN OUTS SHALL BE INSTALLED WHERE SHOWN AND WHERE REQUIRED BY CODE.	
8. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL OFFSETS, FITTINGS, VALVES, AND ACCESSORIES THAT MAY BE REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, OR RECOMMENDED BY THE EQUIPMENT MANUFACTURER, WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN OR SPECIFIED.	
9. INSTALL ALL PIPING INSIDE OF THERMAL ENVELOPE. SEE ARCHITECTURAL DRAWINGS.	
10. INSTALL BALL VALVE STOPS ON ALL FIXTURE HOT WATER AND COLD WATER SUPPLIES.	
11. ALL EQUIPMENT CONNECTIONS SHALL BE COORDINATED WITH EQUIPMENT DRAWINGS AND EQUIPMENT VENDOR. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE ALL NECESSARY PIPING, SHUT-OFF VALVES, P-TRAPS, PRVS, ETC. REQUIRED TO INSTALL EQUIPMENT AND MAKE FINAL CONNECTIONS.	
12. EXISTING FIXTURES, SERVICES, EQUIPMENT, ETC. TO REMAIN OR TO BE RELOCATED SHALL BE REPAIRED TO ORIGINAL OPERATION/CONDITION OR REPLACED, SHOULD THEY BE DAMAGED DURING CONSTRUCTION.	
13. ALL DOMESTIC WATER PIPE, TRIM, AND FITTINGS TO BE LEAD FREE.	
14. ALL VENTS THROUGH THE ROOF SHALL BE COMBINED AS PRACTICAL AND ALLOWED BY CODE, AND PENETRATE THE ROOF ON THE BACK SIDE OF THE BUILDING WHERE PRACTICAL. THIS CONTRACTOR SHALL COORDINATE DETAILS OF VENT PENETRATIONS AND FLASHING WITH THE ROOFING INSTALLER. ALL VENTS THROUGH THE ROOF SHALL BE LOCATED AT LEAST THE MINIMUM DISTANCE AWAY FROM AIR INTAKES AS REQUIRED BY CODE.	
15. ALL NEW UNDERGROUND PLUMBING AND FIRE PROTECTION SHALL BE EXTENDED TO 5'-0" OUTSIDE OF THE BUILDING FOOT PRINT WHERE ANOTHER TRADE WILL CONNECT TO OR EXTEND PIPING.	
16. NO "DOUBLE WYE" FITTINGS PERMITTED ON HORIZONTAL WASTE PIPING.	
17. PROVIDE AND INSTALL SHOCK ARRESTOR PROTECTION FOR ALL FLUSH VALVES AND LINES SERVING QUICK CLOSING VALVES PER PDH-WH 201 STANDARD.	
18. COORDINATE LOCATION OF ALL FLOOR DRAINS WITH ARCHITECTURAL PLANS.	
19. PROVIDE VALVE TAGS AND PIPE LABELS PER STATE AND LOCAL CODES.	



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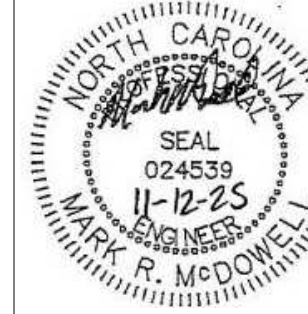
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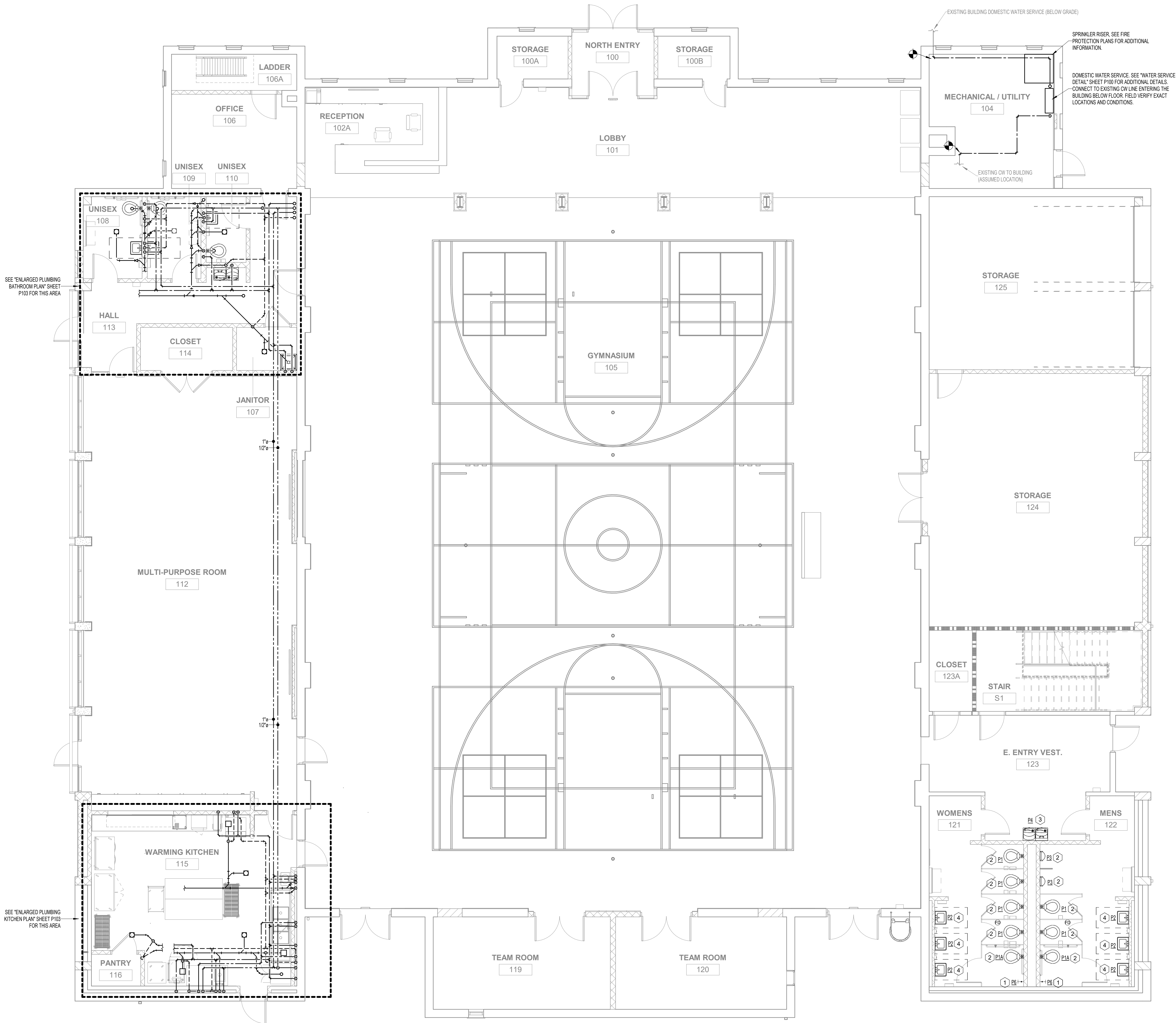
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ISSUE: CONSTRUCTION DOCUMENTS
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CHECKED BY: MRM

PLUMBING NOTES, DETAILS, AND SPECIFICATIONS

P100

KEYED PLUMBING CONSTRUCTION NOTES	
NOTES APPLY TO THIS SHEET ONLY	
①	INSTALL NEW HOSE BIBB. CONNECT NEW 1/2" COLD WATER SUPPLY TO EXISTING COLD WATER PIPING IN CHASE. FIELD VERIFY EXACT LOCATIONS AND CONDITIONS.
②	INSTALL NEW PLUMBING FIXTURE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONNECT TO EXISTING ROUGH-INS THAT WAS PREPARED DURING DEMOLITION.
③	INSTALL NEW DRINKING FOUNTAIN PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONNECT NEW 2" WASTE, 2" VENT, AND 1/2" COLD WATER PIPING TO EXISTING PIPING IN CHASE. FIELD VERIFY EXACT LOCATIONS AND CONDITIONS.
④	INSTALL LAVATORY PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONNECT NEW 2" WASTE, 2" VENT, 1/2" HOT WATER, AND 1/2" COLD WATER PIPING TO EXISTING PIPING IN WALL THAT WAS PREPARED DURING DEMOLITION. FIELD VERIFY EXACT LOCATIONS AND CONDITIONS.

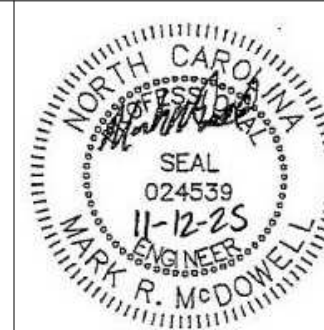


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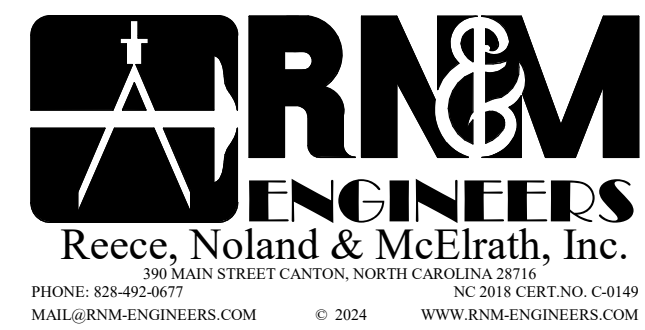
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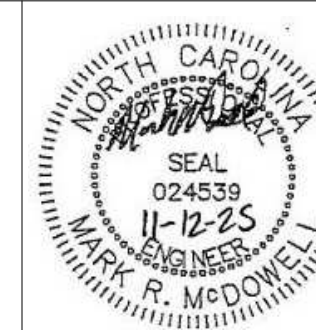
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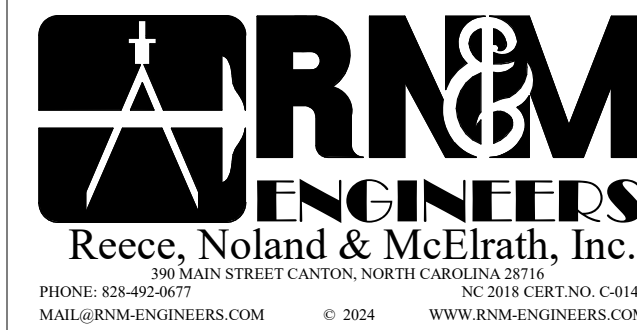
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MAIN LEVEL NEW PLUMBING FLOOR PLAN

P101



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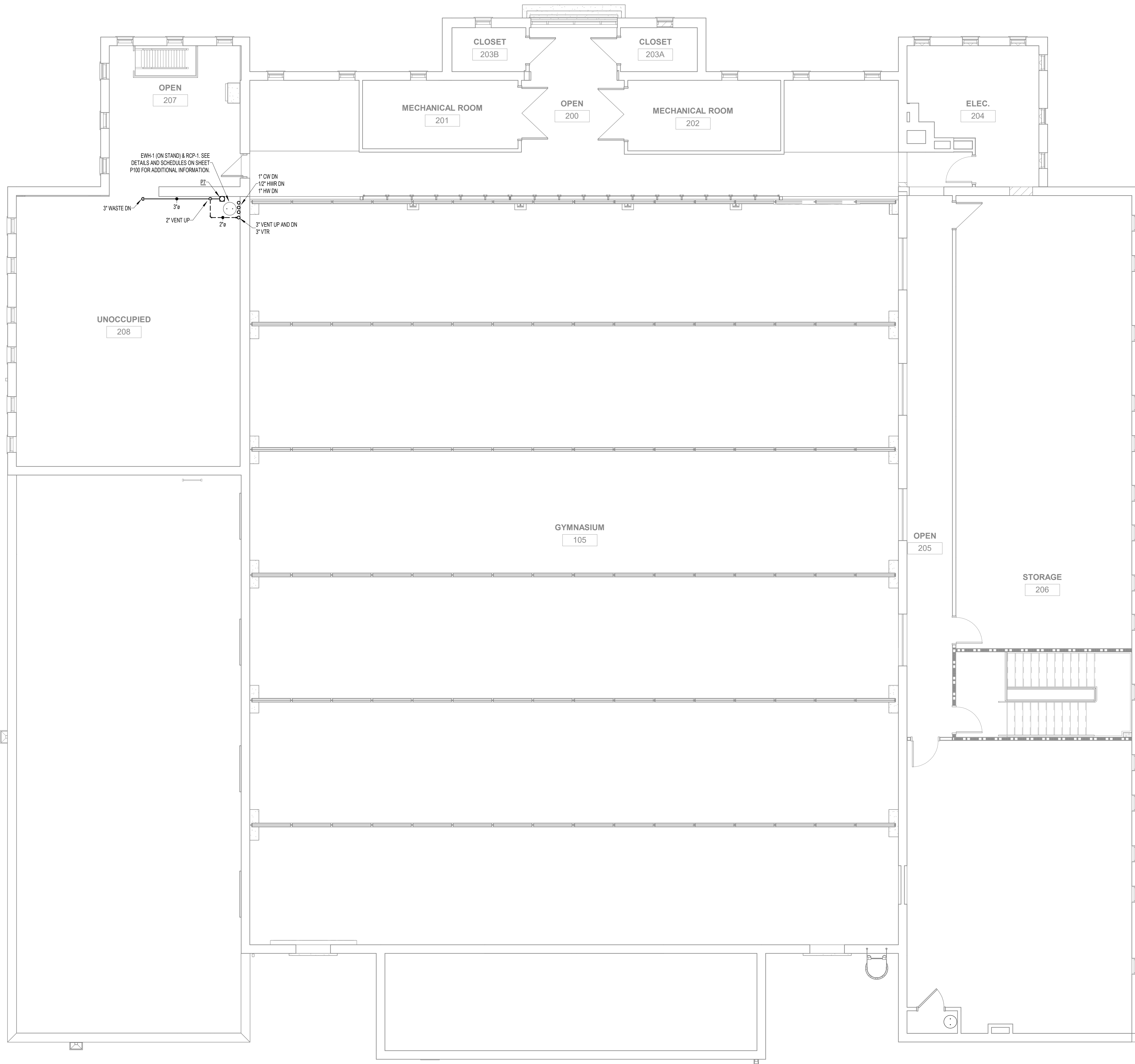
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UPPER LEVEL NEW
PLUMBING FLOOR PLAN

P102



1
P102

UPPER LEVEL NEW PLUMBING FLOOR PLAN

3/16" = 1'-0"



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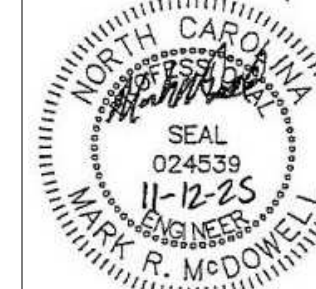
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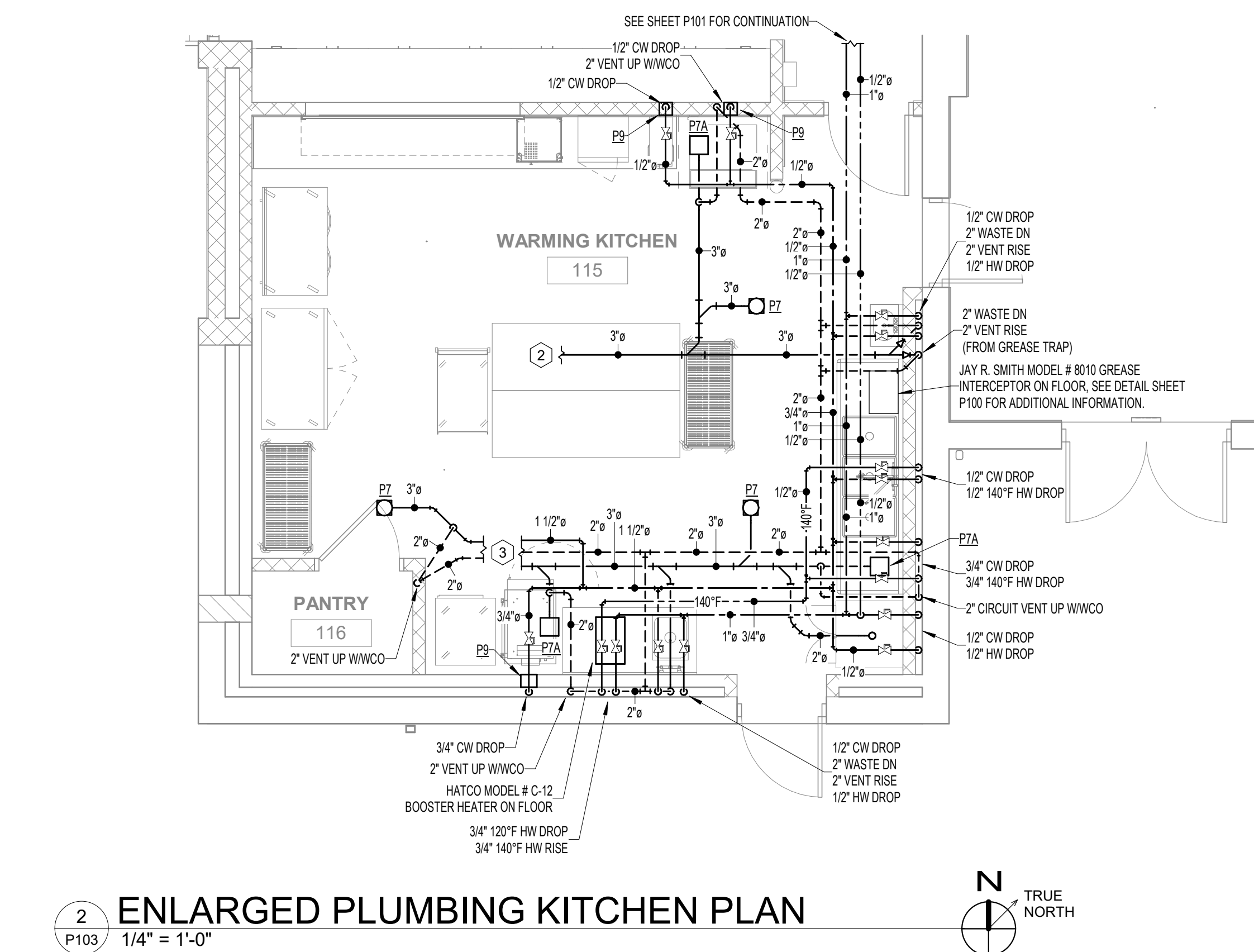
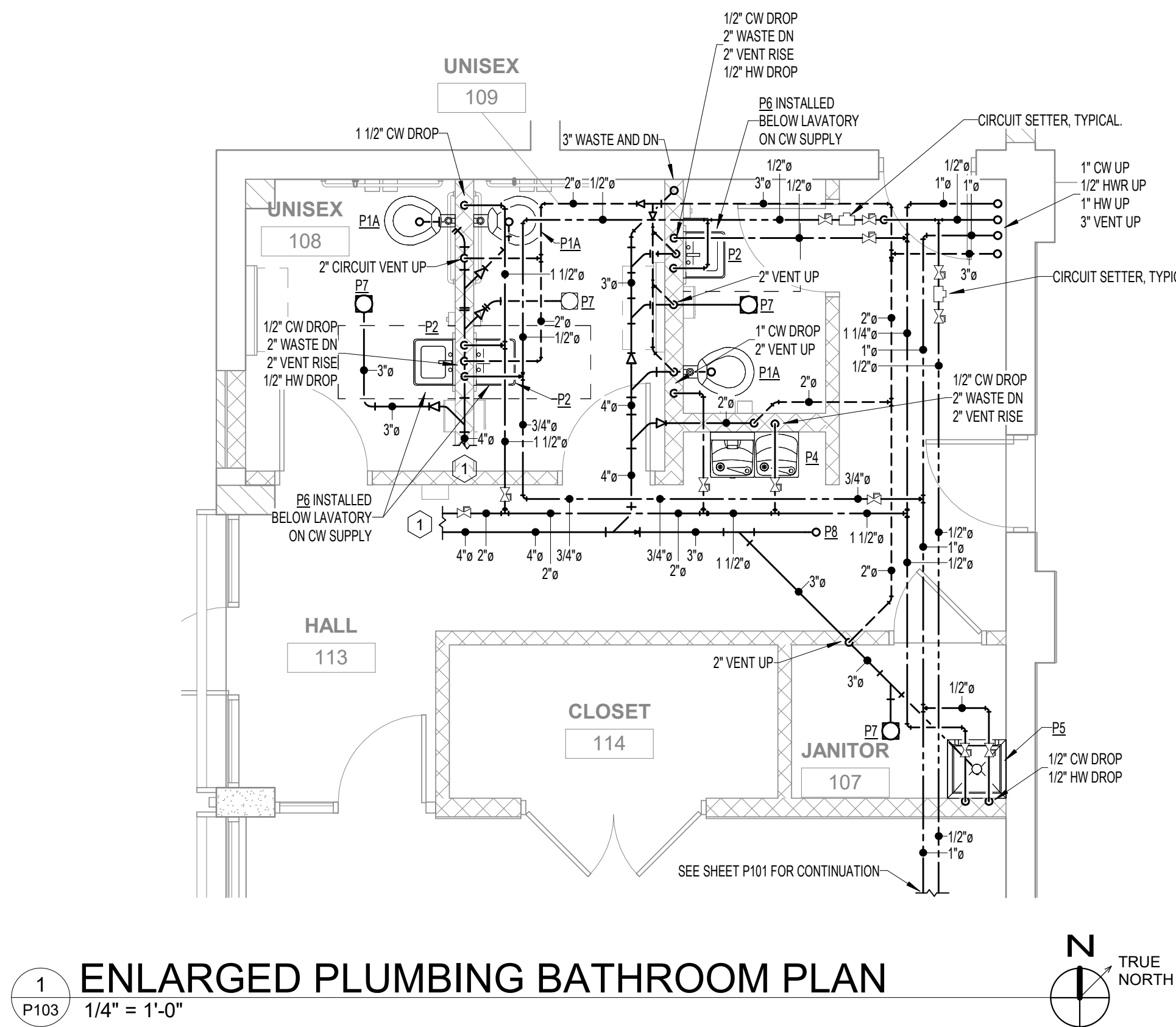
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ENLARGED PLUMBING PLANS

P103

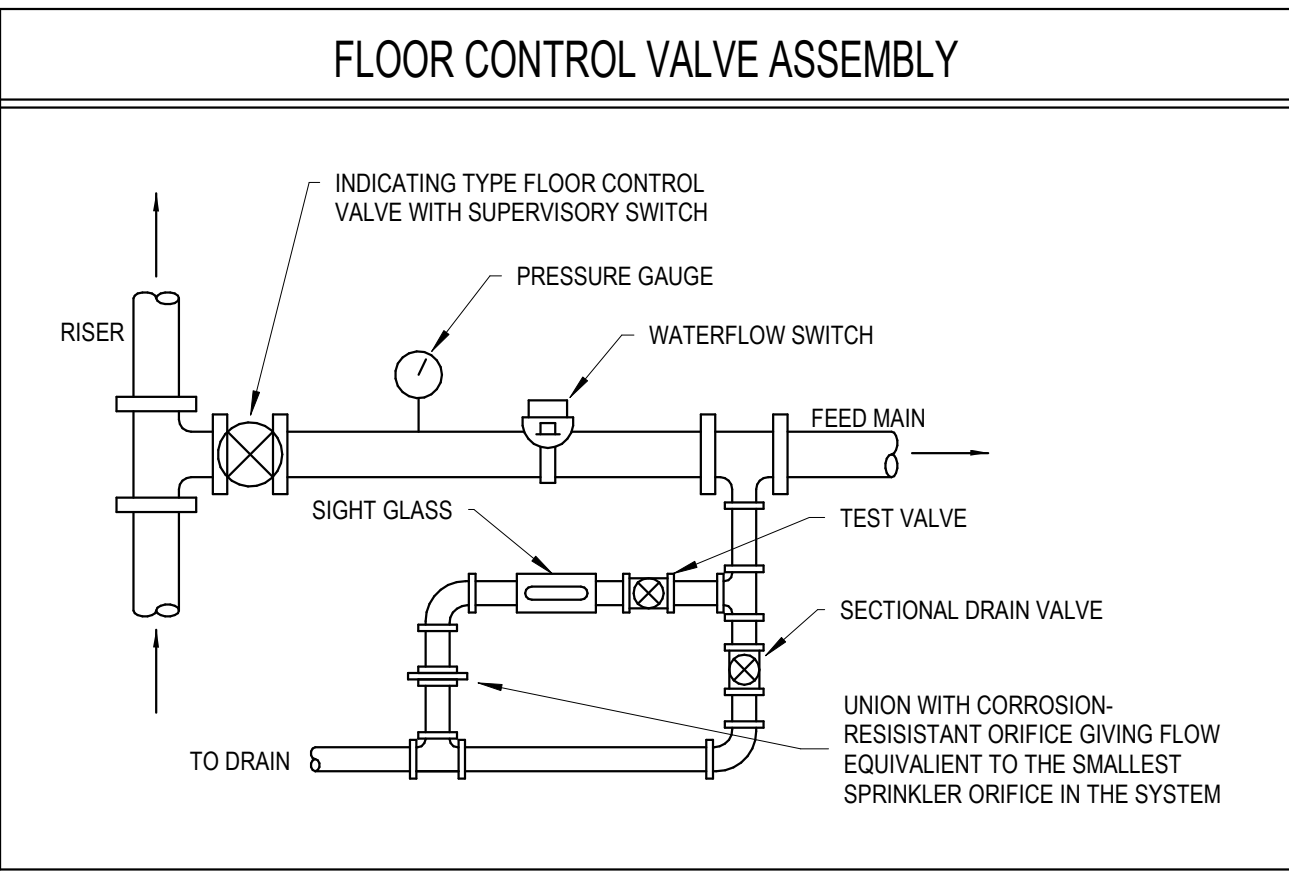
KEYED PLUMBING CONSTRUCTION NOTES	
NOTES APPLY TO THIS SHEET ONLY	
1	CONNECT NEW 4" WASTE PIPING TO EXISTING WASTE PIPING BELOW FLOOR. CONNECT NEW 2" COLD WATER TO EXISTING PIPING ABOVE CEILING. FIELD VERIFY EXACT LOCATIONS AND CONDITIONS.
2	CONNECT NEW 3" WASTE PIPING TO EXISTING WASTE PIPING BELOW FLOOR. FIELD VERIFY EXACT LOCATIONS AND CONDITIONS.
3	CONNECT NEW 3" WASTE PIPING TO EXISTING WASTE PIPING BELOW FLOOR. CONNECT NEW 1 1/2" COLD WATER AND 2" VENT PIPING TO EXISTING PIPING ABOVE CEILING. FIELD VERIFY EXACT LOCATIONS AND CONDITIONS.



FIRE PROTECTION DESIGN CRITERIA
NFPA 13
LIGHT HAZARD CLASSIFICATION - GENERAL BUILDING STRUCTURE 225 SQUARE FEET MAXIMUM PER HEAD 0.10 G.P.M. PER SQUARE FOOT FOR MOST REMOTELY HYDRAULICALLY CALCULATED 1500 SQUARE FEET HOSE STREAM - 100 GPM
ORDINARY 1 HAZARD CLASSIFICATION - KITCHENS, STORAGE ROOMS, ETC 130 SQUARE FEET MAXIMUM PER HEAD 0.15 G.P.M. PER SQUARE FOOT FOR MOST REMOTELY HYDRAULICALLY CALCULATED 1500 SQUARE FEET HOSE STREAM - 250 GPM
CONTRACTOR SHALL REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR BUILDING DESIGNS THAT AFFECT THE SPRINKLER DESIGN AND HYDRAULIC CALCULATIONS I.E.: SLOPED CEILINGS, SKYLIGHTS, MEZZANINES AND LARGE SUSPENDED OBJECTS, STORAGE MATERIAL HEIGHTS TO APPLY DESIGN FACTORS PER NFPA 13
THIS CONTRACTOR TO BE RESPONSIBLE FOR THEIR PENETRATIONS IN FIRE RATED WALLS AND FLOORS. ALL PENETRATIONS TO BE UL APPROVED FIRE STOP ASSEMBLIES FOR THE RATING AS SHOWN ON THE ARCHITECTURAL DRAWINGS.

GENERAL FIRE PROTECTION NOTES
1. THIS CONTRACTOR SHALL PROVIDE NEW SPRINKLERS IN AREA OF CONSTRUCTION PER NFPA 13, LIGHT HAZARD AND AS NOTED ON PLANS.
2. NEW SPRINKLER HEADS TO BE FLAT CONCEALED TYPE WITH WHITE CAPS IN AREAS WITH CEILINGS AND ROUGH BRASS IN STORAGE AREAS WITH NO CEILING.
3. NO PVC SPRINKLER PIPING PERMITTED ON PROJECT.
4. FLEXIBLE PIPING - ONLY FM APPROVED FLEXIBLE PIPING TO HEADS ALLOWED.
5. ALL SPRINKLER HEADS ARE TO BE CENTERED IN THE CEILING TILES.
6. UPON COMPLETION OF THE JOB, ALL SPRINKLER HEADS IN THE PROJECT AREA WILL BE NEW.

FIRE PROTECTION NOTES
FIRE PROTECTION CONTRACTOR TO COORDINATE WITH THE G.C. THE EXACT LOCATION OF ALL SPRINKLER HEADS. ALL SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF ACoustICAL TILES. IN AREAS WITH HUNG CEILINGS, OTHER AREAS WITHOUT CEILINGS, CONTRACTOR IS TO USE UTMOST CARE IN LAYOUT AND INSTALLATION OF EXPOSED PIPING TO MINIMIZE ITS VISUAL EFFECTS. SPRINKLER HEADS ARE TO BE ORGANIZED IN A REGULAR PATTERN WITHIN ALL SPACES. THEREFORE, ALL CONTRACTORS SHALL WORK WITH THE G.C. TO CREATE A REFLECTED CEILING PLAN FOR ARCHITECT/ENGINEER REVIEW AND APPROVAL PRIOR TO INSTALLATION OF ANY CEILING COMPONENTS.
THIS DRAWING IS TO ESTABLISH CRITERIA. FINAL DESIGN DRAWINGS AND HYDRAULIC CALCULATIONS BY SPRINKLER CONTRACTOR.
SPRINKLER SUPPLY PIPING TO TIE INTO EXISTING BUILDING AT LOCATION AS DETERMINED BY HYDRAULIC CALCULATIONS.

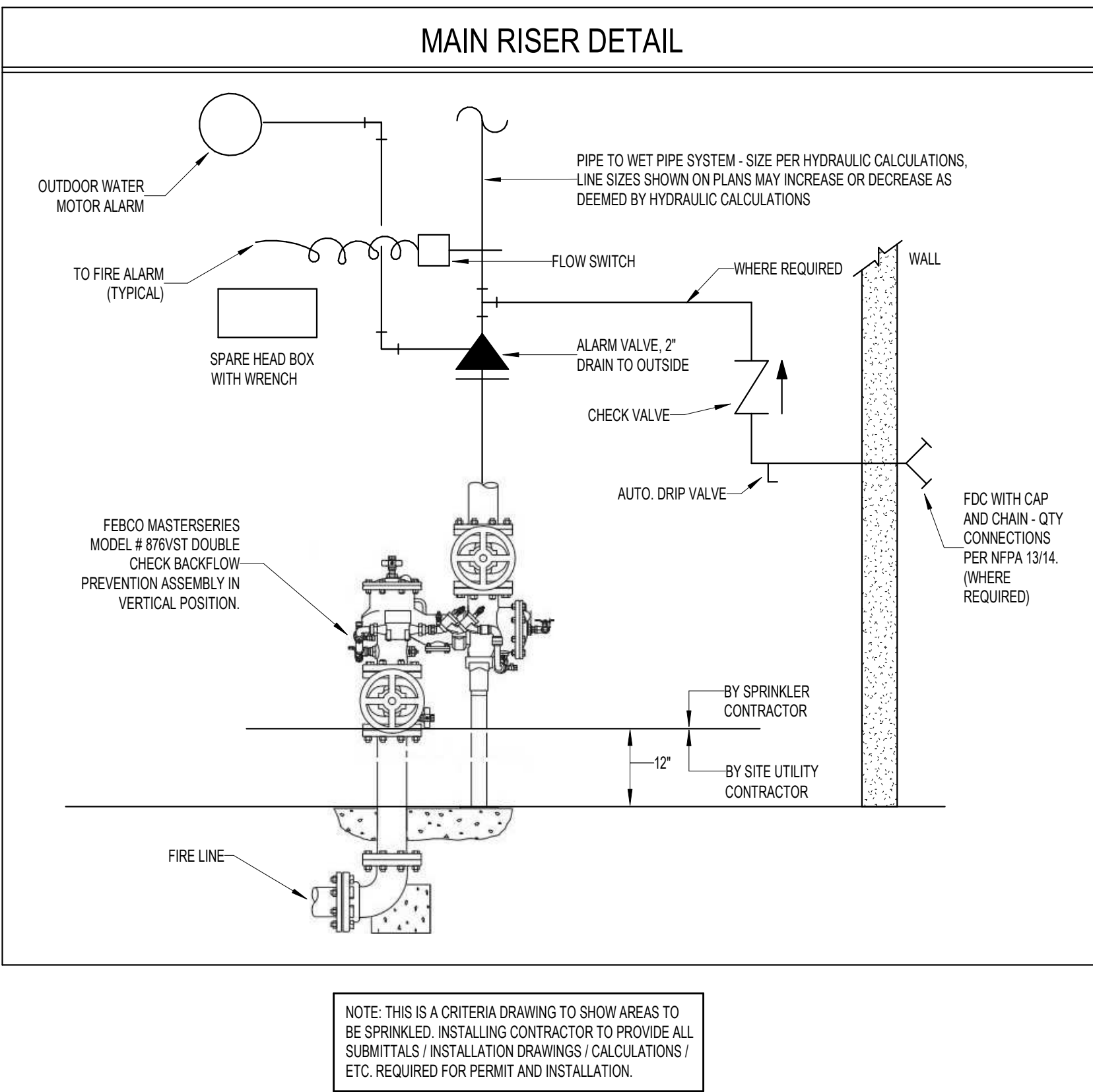


FLOW TEST

Chief Kevin D Wheeler
Canton Fire Department
21 Adams Street
Canton NC 28716
(828)646-3418
(828)406-5687
kwheeler@cantonnc.com

Hydrant Flow Tests
Hydrant C032
Corner of Penland St & Pigeon St
Static: 136 psi
Residual: 90 psi
Flow: 919 gpm
PTD: 30 psi
Outlet diameter: 2 1/2"
Discharge Coefficient: 0.9

Flow @ 10psi: 1584 gpm
Flow @ 20psi: 1514 gpm

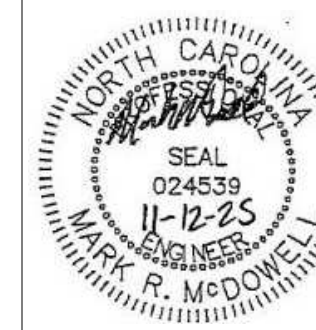


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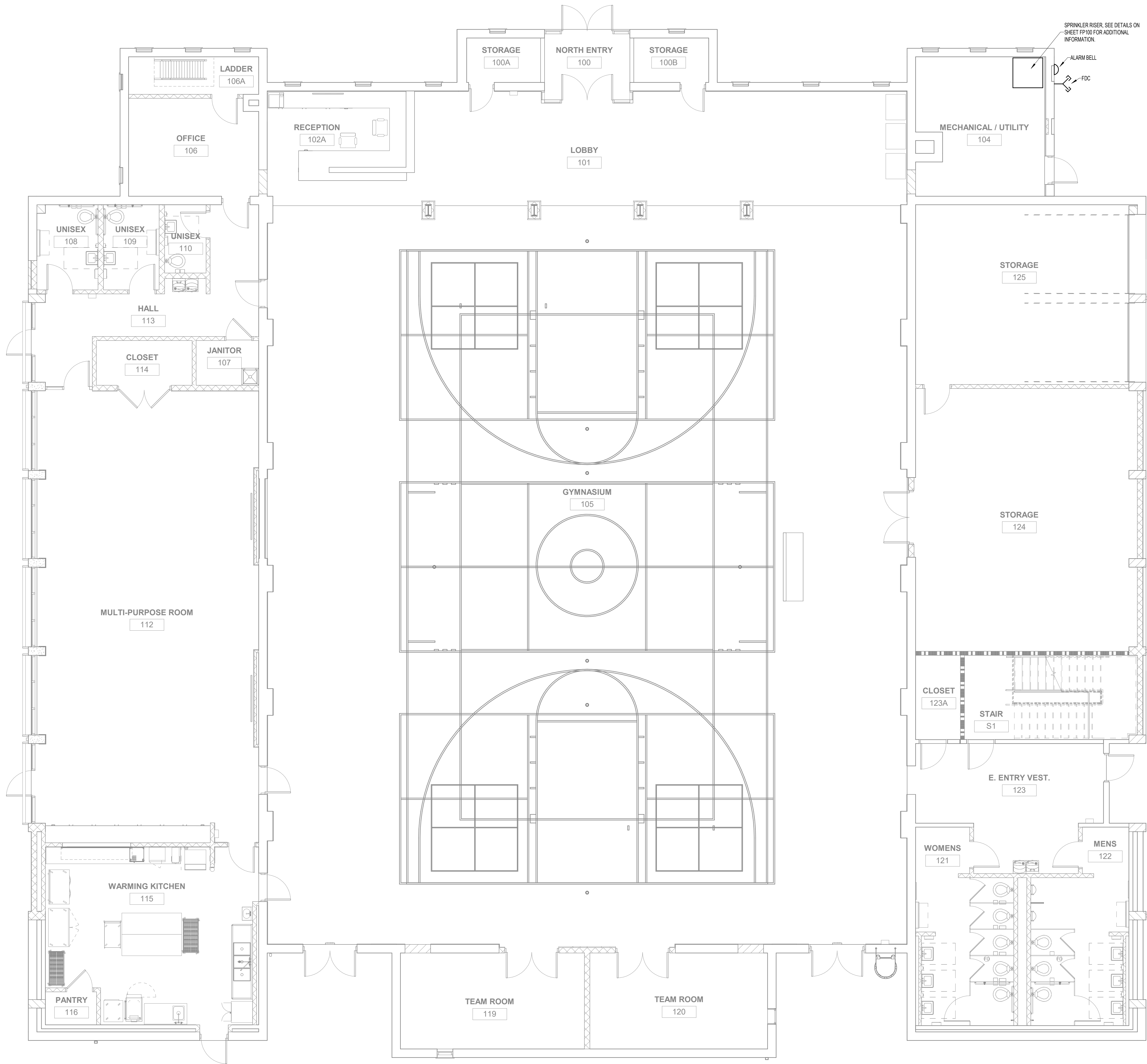
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FIRE PROTECTION CRITERIA, NOTES, AND SPECIFICATIONS

FP100

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1 MAIN LEVEL NEW FIRE PROTECTION FLOOR PLAN
FP101 3/16" = 1'-0"



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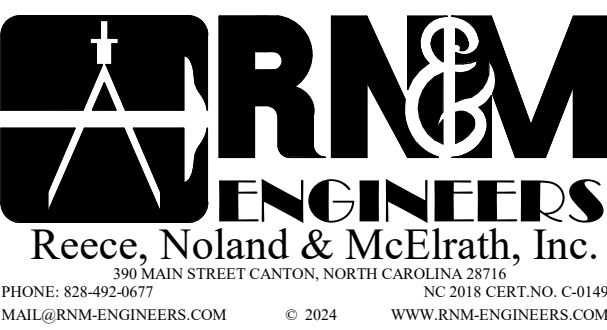
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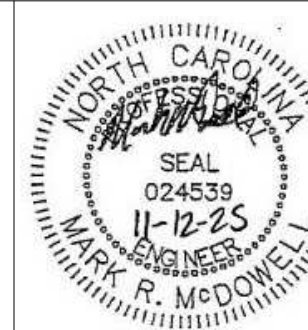
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MAIN LEVEL NEW FIRE
PROTECTION FLOOR
PLAN

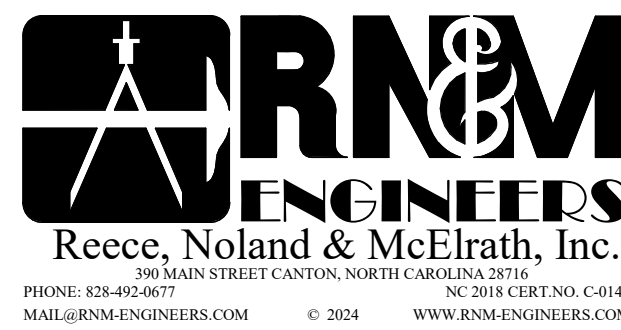
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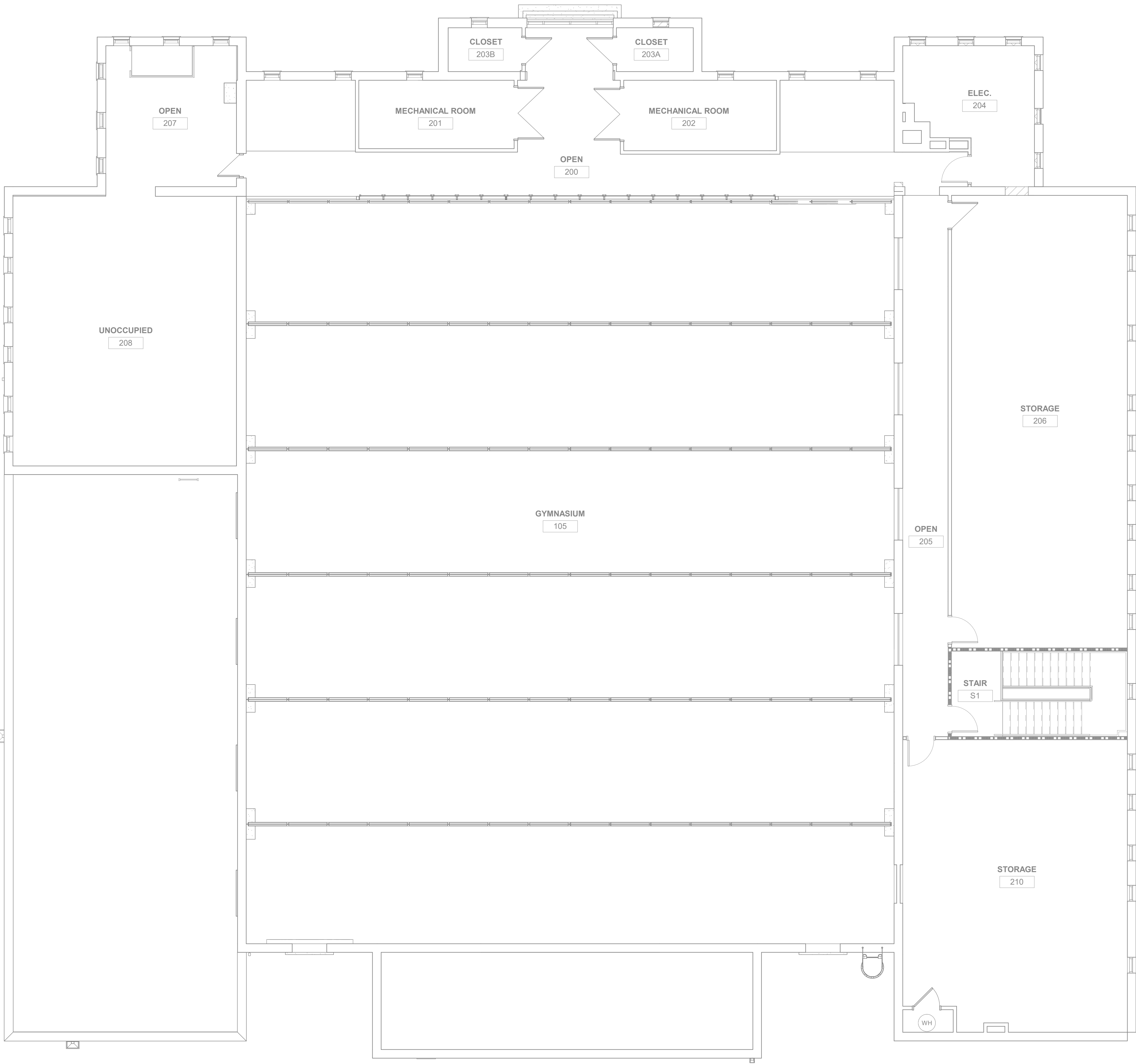
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UPPER LEVEL NEW FIRE
PROTECTION FLOOR
PLAN

FP102



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FP102
3/16" = 1'-0"

UPPER LEVEL NEW FIRE PROTECTION FLOOR PLAN

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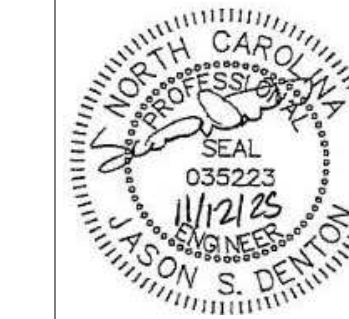
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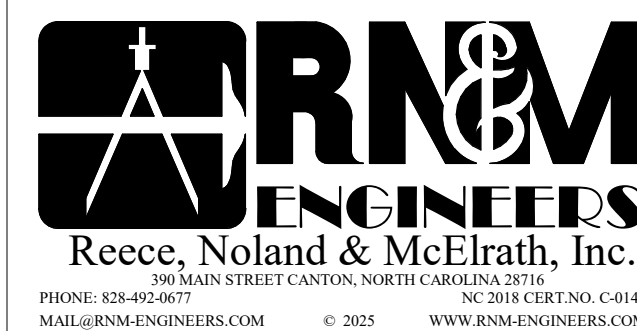
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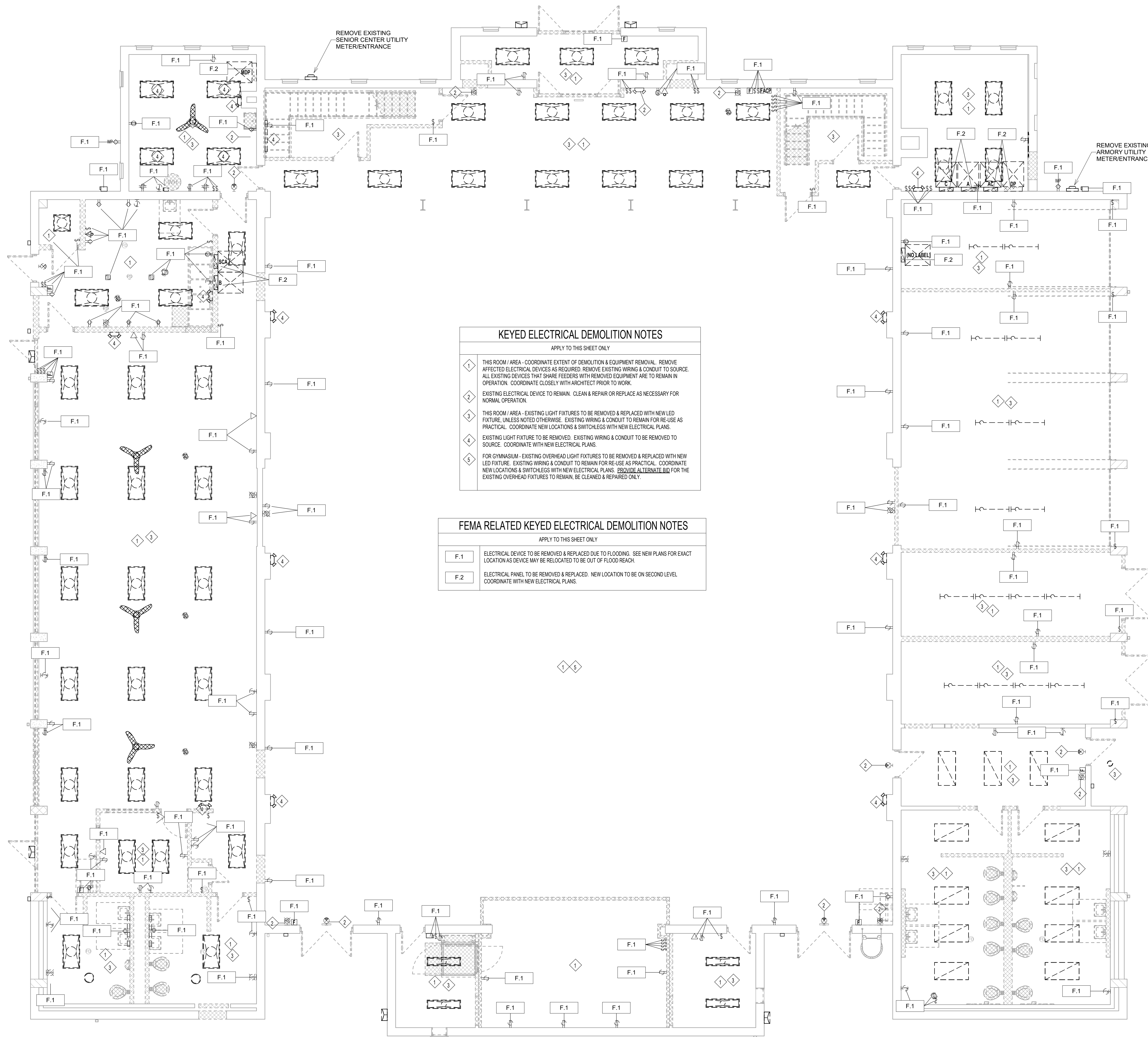
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FOR REVIEW
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MAIN LEVEL ELECTRICAL
DEMOLITION PLAN

ED101



MAIN LEVEL ELECTRICAL DEMOLITION
PLAN

1
ED101 3/16" = 1'-0"

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KEYED ELECTRICAL DEMOLITION NOTES	
APPLY TO THIS SHEET ONLY	
1	FOR GYMNASIUM - EXISTING OVERHEAD LIGHT FIXTURES TO BE REMOVED & REPLACED WITH NEW LED FIXTURE. EXISTING WIRING & CONDUIT TO REMAIN FOR RE-USE AS PRACTICAL. COORDINATE NEW LOCATIONS & SWITCHLESS WITH NEW ELECTRICAL PLANS. PROVIDE ALTERNATE BID FOR THE EXISTING OVERHEAD FIXTURES TO REMAIN, BE CLEANED & REPAIRED ONLY.
2	THIS ROOM / AREA - EXISTING LIGHT FIXTURES TO BE REMOVED & REPLACED WITH NEW LED FIXTURE. UNLESS NOTED OTHERWISE, EXISTING WIRING & CONDUIT TO REMAIN FOR RE-USE AS PRACTICAL. COORDINATE NEW LOCATIONS & SWITCHLESS WITH NEW ELECTRICAL PLANS.
3	THIS ROOM / AREA - EXISTING ELECTRICAL DEVICES TO REMAIN, UNLESS NOTED OTHERWISE. CLEAN & REPAIR OR REPLACE AS NECESSARY FOR NORMAL OPERATION.
4	REMOVE EXISTING ELECTRICAL DEVICE AS REQUIRED. REMOVED EXISTING WIRING & CONDUIT TO SOURCE.
5	EXISTING WATER HEATER TO REMAIN. INSPECT EXISTING DISCONNECT & REPAIR OR REPLACE IF REQUIRED. EXISTING FEEDER TO BE RE-ROUTED TO NEW REPLACEMENT ELECTRICAL PANEL. SEE NEW ELECTRICAL POWER PLAN FOR NEW BREAKER & LOCATION.
6	THIS ROOM / AREA - EXISTING LIGHT FIXTURES TO BE REMAIN UNLESS NOTED OTHERWISE. SEE NEW ELECTRICAL LIGHTING PLAN FOR NEW WIRING LAYOUT FOR NEW ROOMS DIVIDED IN THE AREA. EXISTING WIRING & CONDUIT TO REMAIN FOR RE-USE AS PRACTICAL. COORDINATE NEW LOCATIONS & SWITCHLESS WITH NEW ELECTRICAL PLANS.

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ED102
UPPER LEVEL ELECTRICAL
DEMOLITION PLAN
3/16" = 1'-0"

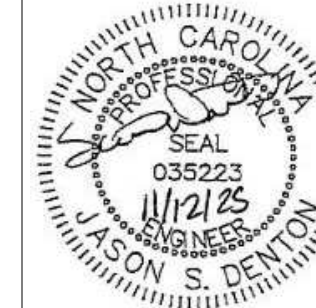
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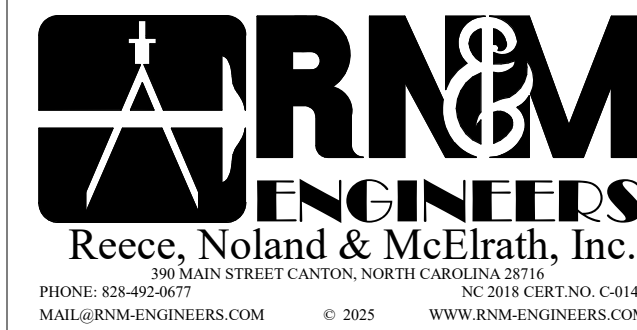
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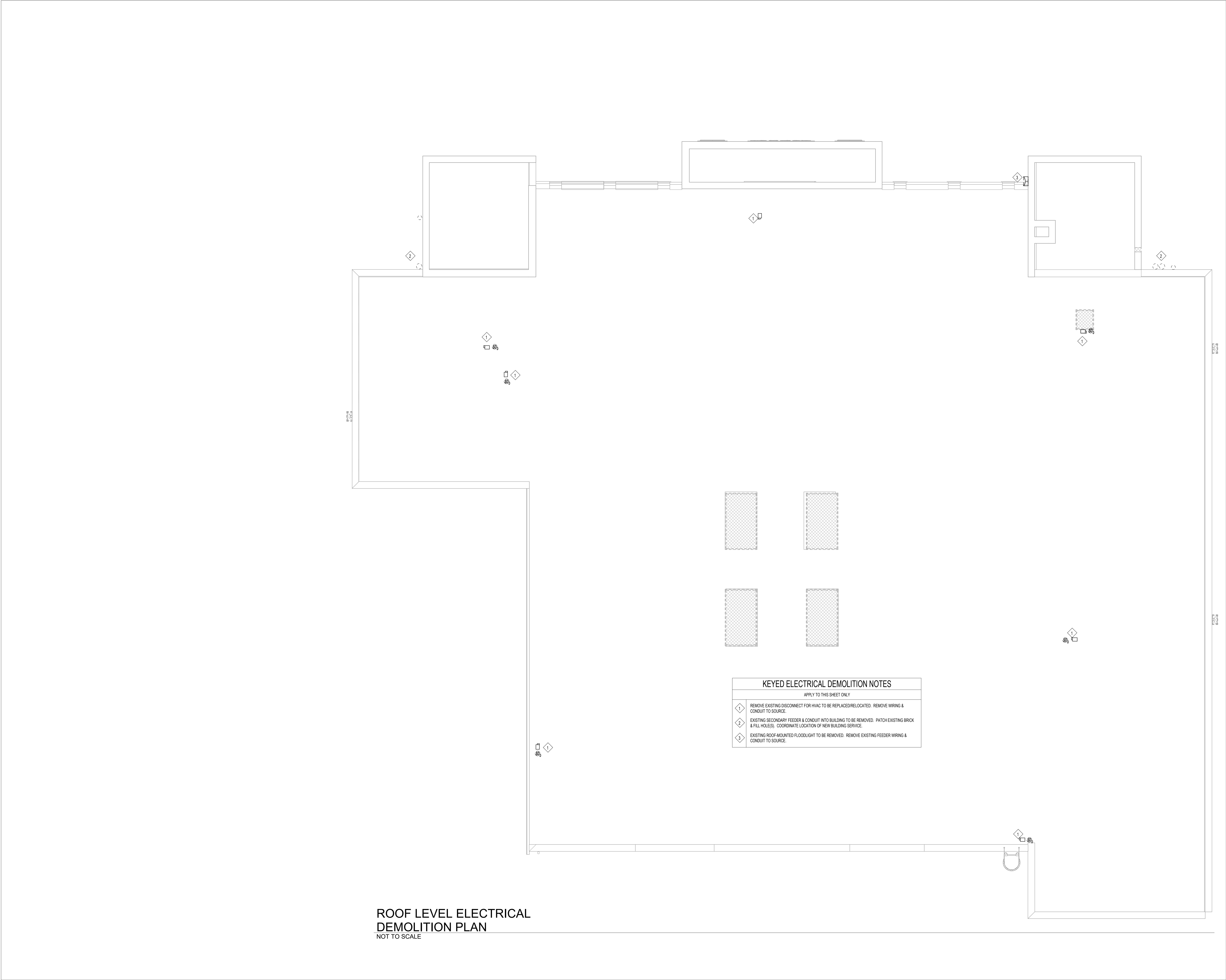
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UPPER LEVEL
ELECTRICAL DEMOLITION
PLAN

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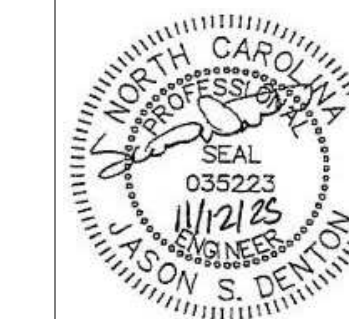
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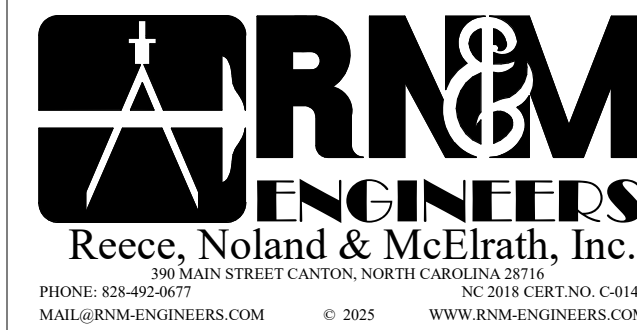
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ROOF LEVEL
ELECTRICAL DEMOLITION
PLAN

ED103

GENERAL ELECTRICAL NOTES	
1.	FOR LED FIXTURES WITH STANDARD ELECTRONIC OR DIMMING DRIVER (NOT BEING DIMMED), PROVIDE SWITCHING SUCH THAT ALTERNATE FIXTURES ARE CONTROLLED BY SEPARATE SWITCHES. TYPICALS AS NOTED OR AS REQUIRED BY STATE ENERGY CODE. -FOR LED FIXTURES WITH STEP DIMMING DRIVER, WIRE FIXTURES SUCH THAT EACH HOT LEAD OF THE DRIVER IS CONTROLLED BY SEPARATE SWITCHES OR RELAYS.
2.	THIS CONTRACTOR SHALL COORDINATE WITH ALL OTHER CONTRACTORS AND TRADES TO LOCATE HIS WORK TO AVOID CONFLICTS.
3.	CONTRACTOR TO COORDINATE FIXTURE MOUNTING METHOD (FLANGED, GRID, SPLINE ETC.) WITH TYPE OF CEILING ACTUALLY INSTALLED IN THESE AREAS, TYPICAL.
4.	THIS CONTRACTOR SHALL NOT UTILIZE "THRU TYPE" OUTLET BOXES WHERE DEVICES ARE SHOWN BACK TO BACK IN SOUND INSULATED OR SOUND SECURE AREAS, TYPICAL.
5.	SMOKE DETECTORS FOR AIR HANDLING UNITS SHALL BE LOCATED IN AIR DUCTS OBSERVING ALL APPLICABLE CODES AND ORDINANCES. ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION AND REQUIREMENTS OF INSTALLATION WITH MECHANICAL CONTRACTOR PRIOR TO CUTTING DUCTWORK. LOCATE THE DETECTOR INDICATOR/RESET DEVICE IN AN ACCESSIBLE LOCATION AS DIRECTED BY THE ARCHITECT AND LABEL AS TO AREA AND ROOFTOP UNIT SERVED. TYPICAL."
6.	SMOKE DETECTORS FOR NOT BE LOCATED IN A DIRECT AIR FLOW OR CLOSER THAN 36" FROM AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING. SUPPLY OR RETURN SOURCES LARGER THAN THOSE COMMONLY FOUND IN RESIDENTIAL AND SMALL COMMERCIAL ESTABLISHMENTS CAN REQUIRE GREATER CLEARANCE TO SMOKE DETECTORS. SIMILARLY, SMOKE DETECTORS SHOULD BE LOCATED FARTHER AWAY FROM HIGH VELOCITY AIR SUPPLIES.
7.	THIS CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND PLACEMENT OF LIGHT FIXTURES, OUTLET BOXES, DEVICES, AND EQUIPMENT WITH SITE AND ARCHITECTURAL DRAWINGS, INCLUDING REFLECTED CEILING PLANS, INTERIOR AND EXTERIOR ELEVATIONS, DETAILS, AND SECTIONS. PRIOR TO ROUGH-IN, OR RELOCATE AS DIRECTED BY THE DESIGNER AT NO ADDITIONAL COST TO THE OWNER. ELECTRICAL DRAWINGS ARE NOT TO BE SCALED FOR SUCH LOCATIONS.
8.	MOUNTING HEIGHTS GIVEN ARE TO TOP OF OUTLET BOX, UNLESS OTHERWISE NOTED. HEIGHTS MAY BE ADJUSTED TO MATCH MASONRY JOINTS, AND MUST COMPLY WITH NORTH CAROLINA STATE BUILDING CODE.
9.	LIGHT FIXTURE WHIPS SHALL NOT EXCEED 6' IN LENGTH.
10.	ALL CONDUITS AND RACEWAYS ARE TO BE CONCEALED UNLESS OTHERWISE NOTED OR APPROVED BY THE DESIGNER.
11.	ALL CONDUITS, SLEEVES, INSERTS, OUTLET BOXES, AND OTHER ROUGH-IN MATERIALS SHALL BE INSTALLED AS BUILDING CONSTRUCTION PROGRESSES.
12.	ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
13.	IN MECHANICAL ROOMS AND OTHER AREAS WHERE LIGHT FIXTURES ARE SPECIFIED, AND DUCT WORK AND PIPING IS INSTALLED, ELECTRICAL CONTRACTOR SHALL INSTALL LIGHT FIXTURES AFTER INSTALLATION OF MECHANICAL CONTRACTORS DUCT WORK AND PIPING.
14.	PROVIDE POWER FOR VAV BOXES FROM NEAREST RECEPTACLE CIRCUIT. COORDINATE QUANTITIES AND LOCATIONS WITH MECHANICAL CONTRACTOR.
15.	ARC FLASH LABELING TO BE PROVIDED IN ACCORDANCE WITH NEC 110.16A AND NEC 110.16B.
16.	THERE SHALL BE NO CONDUIT RUNS INSTALLED HORIZONTALLY IN SLABS.
17.	ALL CONDUIT TO BE INSTALLED WITH A BOX/SPLIN BOXES LOCATED IN AREAS WITH LAY CEILING. SEE ARCHITECTURAL DRAWINGS FOR CEILING CONSTRUCTION.
18.	ALL FLOOR/ROOF/PLATFORM WALL PENETRATIONS TO BE MADE/INSTALLED PER STRUCTURAL DRAWINGS.
19.	ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH MANUFACTURER TO DETERMINE ALL BREAKER TRIP SETTINGS.
20.	WHERE DEVICES (RECEPTABLES, SWITCHES, DATA OUTLETS, ETC.) ARE LOCATED ABOVE COUNTER, IT IS INTENT THAT ALL DEVICES BE MOUNTED AT THE SAME HEIGHT FOR AN AESTHETICALLY PLEASING APPEARANCE.

ELECTRICAL FIXTURE SCHEDULE					
SYMBOL	DESCRIPTION	LAMPS	MOUNTING	WATTS	DRIVER
A	2x4 RECESSED TROFFER, DIRECT/INDIRECT CENTER BASKET, LED, SELECTABLE LUMENS & COLOR TEMPERATURE, 0-10V 1% DIMMING METALLUX #24C25B-SC73-UV	LED 3000/3500/4000K 4100/5200/6800 Lm	RECESSED	2027/35	ELECTRONIC LED DRIVER - 0-10V 1% DIMMING
	2'x2 RECESSED TROFFER, DIRECT/INDIRECT CENTER BASKET, LED, SELECTABLE LUMENS & COLOR TEMPERATURE, 0-10V 1% DIMMING METALLUX #22C25B-SC73-UV	LED 3000/3500/4000K 2800/3800/4800 Lm	RECESSED	293/49	ELECTRONIC LED DRIVER - 0-10V 1% DIMMING
C	2x4 RECESSED FLAT PANEL, EDGE LIT, LED, SELECTABLE LUMENS & COLOR TEMPERATURE, 0-10V 1% DIMMING METALLUX #24FPS12C23-UV	LED 3000/3500/4000K 3100/4050/6200 Lm	RECESSED	2740/56	ELECTRONIC LED DRIVER - 0-10V 1% DIMMING
	2'x2 RECESSED FLAT PANEL, EDGE LIT, LED, SELECTABLE LUMENS & COLOR TEMPERATURE, 0-10V 1% DIMMING METALLUX #22FPS12C23-UV	LED 3000/3500/4000K 1700/2400/3400 Lm	RECESSED	1922/31	ELECTRONIC LED DRIVER - 0-10V 1% DIMMING
E	LED EDGE LIT EXIT LIGHT, UNIVERSAL MOUNTING, RED LETTERS, Y-FACE, CLEAR BACKGROUND ON SINGLE FACE, MIRROR ON DOUBLE FACE (W/RE GUARD), 0.1M SURE LITES EUE5TRX	LED INCLUDED	(C) = CEILING OR AS REQUIRED (W) = WALL 7'-6" AFF OR AS REQUIRED	2	ELECTRONIC LED DRIVER
	DUAL-HEAD EMERGENCY LIGHT, LED, WHITE FINISH HOUSING, 90-MINUTE BATTERY (W/RE GUARD PROVIDED FOR 6YR FIXTURES) SURE LITES EUE5TRX	LED INCLUDED	(C) = CEILING OR AS REQUIRED (W) = WALL 7'-6" AFF OR AS REQUIRED	2	ELECTRONIC LED DRIVER
G	17' ROUND CM PENDANT, LED, STEM MOUNT, SELECTABLE LUMENS & COLOR TEMPERATURE, 0-10V 1% DIMMING, BLACK FINISH, WIRE GUARD METALLUX #UHSS-1218-MV-L4505-BLK UHSS-WG13	LED 4000/5000K 13K/15K/17.5K Lm	STEM MOUNT, BOTTOM OF FIXTURE @ 16'-0" AFF	84103/145	ELECTRONIC LED DRIVER - 0-10V 1% DIMMING
	24" VANITY, WALL MOUNT, 680 LUMENS, 3500K COLOR TEMPERATURE, 0-10V 1% DIMMING, X-FINISH BY ARCHITECT EUREKA #FNS-24LED-LS-35-95-1200-UV-SL-X-WH9398B	LED 3500K 680 Lm	WALL 6'-0" AFF, COORD. W/ ARCHITECT	5	ELECTRONIC LED DRIVER - 0-10V 1% DIMMING
J	4" RECESSED DOWNLIGHT, ROUND APERTURE, 100 LUMENS, 3500K COLOR TEMPERATURE, 0-10V 1% DIMMING, WIDE BEAM, CLEAR SEMI-SPECULAR FINISH PORTFOLIO #LDC03032010 WITH	LED 3500K 1500 Lm	RECESSED	10	ELECTRONIC LED DRIVER - 0-10V 1% DIMMING
	6" RECESSED DOWNLIGHT, ROUND APERTURE, 3000 LUMENS, 3500K COLOR TEMPERATURE, 0-10V 1% DIMMING, WIDE BEAM, CLEAR SEMI-SPECULAR FINISH PORTFOLIO #LDC03032010 WITH	LED 3500K 3000 Lm	RECESSED	32	ELECTRONIC LED DRIVER - 0-10V 1% DIMMING
L	8" LENGTH 4" RECESSED DOWNLIGHT, LED, SELECTABLE LUMENS & COLOR TEMPERATURE, 0-10V 1% DIMMING METALLUX #R896-SL1-LS8C3	LED 3000/3500/4000K 4000/6000/8000 Lm	RECESSED	4162/75	ELECTRONIC LED DRIVER - 0-10V 1% DIMMING
	2" LED STRIP LIGHT, CLEAR LENS, 1800 LUMENS, 3500K COLOR TEMPERATURE, 0-10V 1% DIMMING METALLUX #25NLED-LDS-305L-UV-UNV-LBS5-C21	LED 3500K 3000 Lm	SURFACE, OR CHAIN HUNG @ 8'-0" AFF	14	ELECTRONIC LED DRIVER - 0-10V 1% DIMMING
N	4" LED STRIP LIGHT, CLEAR LENS, 3000 LUMENS, 3500K COLOR TEMPERATURE, 0-10V 1% DIMMING METALLUX #45NLED-LDS-305L-UV-UNV-LBS5-C21	LED 3500K 3000 Lm	SURFACE, OR CHAIN HUNG @ 8'-0" AFF	21	ELECTRONIC LED DRIVER - 0-10V 1% DIMMING
P	EXTERIOR WALL PACK, LED, LOW PROFILE, FULL CUTOFF, 6000 LUMENS, 4000K COLOR TEMPERATURE, COLD WEATHER EMERGENCY DRIVER, PHOTOCELL LUMARK #XT09B-W-FC1-CBP	LED 4000K 6000 Lm	WALL 10'-0" AFF, OR AS SPECIFIED BY ARCHITECT	58	EMERGENCY COLD WEATHER DRIVER
	EXTERIOR WALL PACK, LED, LOW PROFILE, FULL CUTOFF, 2700 LUMENS, 4000K COLOR TEMPERATURE, COLD WEATHER EMERGENCY DRIVER, PHOTOCELL LUMARK #XT09B-W-FC1-CBP	LED 4000K 2700 Lm	WALL 8'-0" AFF, OR AS SPECIFIED BY ARCHITECT	26	EMERGENCY COLD WEATHER DRIVER
R	24" EXTERIOR WALL SCONCE, VERTICAL MOUNT, LED, 680 LUMENS, 4000K COLOR TEMPERATURE, BRONZE FINISH, COLD WEATHER EMERGENCY DRIVER, PHOTOCELL, LIGHTING #AT1-010A-24-GV-BNP-LED24K-UV-DM1-SUB1TPS	LED 4000K 680 Lm	WALL 8'-0" AFF, TO CENTER OF FIXTURE	20	EMERGENCY COLD WEATHER DRIVER
	36" EXTERIOR WALL SCONCE, VERTICAL MOUNT, LED, 1000 LUMENS, 4000K COLOR TEMPERATURE, BRONZE FINISH, COLD WEATHER EMERGENCY DRIVER W/ 30-MINUTE BACKUP BATTERY OCL LIGHTING #AT1-010A-36-GV-BNP-LED24K-UV-DM1-SUB1TPS	LED 4000K 1000 Lm	WALL 8'-0" AFF, TO CENTER OF FIXTURE	30	EMERGENCY COLD WEATHER DRIVER
T	4" WANDA, RESISTANT, WALL MOUNT (WRAP, LED, SELECTABLE LUMENS & COLOR TEMPERATURE, 0-10V 1% DIMMING METALLUX #WVNS-13C3-UV	LED 3500/4000/5000K 4000/4800/5800 Lm	WALL 8'-0" AFF, TO CENTER OF FIXTURE	323/48	ELECTRONIC LED DRIVER

NOTES:	
1.	ELECTRICAL CONTRACTOR TO FURNISH AND MAKE PROVISIONS FOR THE INSTALLATION OF (3) ADDITIONAL TYPE "E1" FIXTURES & (2) ADDITIONAL TYPE "E2", DUAL HEAD EMERGENCY FIXTURES.
2.	FIXTURES WITH "NL" DESIGNATION ARE TO HAVE EMERGENCY BACKUP BATTERY OPTION INSTALLED.
3.	EQUALS MAY BE SUBMITTED BY ACUTY BRAND, PHILIPS LIGHTING PRODUCTS, HUBBELL, H.E. WILLIAMS, EDISON PRICE, LUMINAIRE, ALW, FINELITE LIGHTING SYSTEMS, METALUMEN, LITRONA LIGHTING, FICAL POINT, SONITEX, AND OLCORIDE.
4.	COORDINATE LOCATIONS & MOUNTING HEIGHTS OF ALL EXTERIOR FIXTURES WITH ARCHITECTURAL ELEVATIONS & LIGHTING PLANS.
5.	WHERE FIXTURES ARE INSTALLED IN GINWOOD ETC., E.C. TO PROVIDE APPROPRIATE INSTALLATION KIT, COORDINATE WITH ARCHITECTURAL RCP.

ELECTRICAL SYMBOL SCHEDULE	
ALL SYMBOLS MAY NOT BE USED	
NOTE: ALL ELECTRICAL DEVICES SHALL BE GRAY IN COLOR WITH STAINLESS STEEL COVER PLATES EXCEPT FOR EMERGENCY POWERED DEVICES WHICH SHALL BE RED. INCLUDE LABEL AS TO CIRCUIT NUMBER FOR ALL DEVICES WHERE DEVICE HAS "E" SUBSCRIPT. DEVICE SHALL BE RED WITH RED PLATES ENGRAVED "EMERGENCY"	

SWITCHING		
WALL PLATES TO MATCH SURROUNDING WALL COLOR UNLESS NOTED OTHERWISE. EQUALS BY PASS & SEYMOUR, HUBBELL, LEVITON		
SYMBOL	DESCRIPTION	MOUNTING - GIVEN TO TOP OF DEVICE (OR AS NOTED)
S	SWITCH, SINGLE POLE, 20 AMP, COMMERCIAL DUTY, HUBBELL #H81221, 120/277 VOLT RATED, MATCH SURROUNDING WALL COLOR	4'-0" AFF
S ₃	SWITCH, THREE WAY, 20 AMP, COMMERCIAL DUTY, HUBBELL #H81221, 120/277 VOLT RATED, MATCH SURROUNDING WALL COLOR	4'-0" AFF
S ₄	SWITCH, FOUR WAY, 20 AMP, COMMERCIAL DUTY, HUBBELL #H81224, 120/277 VOLT RATED, MATCH SURROUNDING WALL COLOR	4'-0" AFF
S _{SS}	SWITCHES FOR DUAL LEVEL LIGHTING. SEE ELECTRICAL NOTE 1.	4'-0" AFF
S _{OS}	SWITCH, DUAL RELAY WALL SWITCH DUAL TECHNOLOGY OCCUPANCY SENSOR, COOPER CONTROLS #0NWD-1001-0M-V, 120/277 VOLT RATED, WIRE PER MFG'S RECOMMENDATIONS. SEE ELECTRICAL NOTE 1.	4'-0" AFF
S _{OS1}	SWITCH, SINGLE RELAY WALL SWITCH DUAL TECHNOLOGY OCCUPANCY SENSOR, COOPER CONTROLS #0NWD-1001-0M-V, 120/277 VOLT RATED, WIRE PER MFG'S RECOMMENDATIONS	4'-0" AFF
S _{VSD}	VACUANCY SENSOR WALL SWITCH WITH 0-10V DIMMER, LEGRAND WATTS TOPPER #0W311, 120/277 VOLT RATED, WIRE PER MFG'S RECOMMENDATIONS.	4'-0" AFF
S _D	SINGLE POLE DIMMER SWITCH - SLIDE ACTION LUTRON "NOVA" DIMMER INT-1000 SERIES (INCANDESCENT) OR INT-10 SERIES (FLUORESCENT & LED), COLOR TO MATCH WALL SURROUNDINGS, GANG ONLY PER MANUFACTURER'S RECOMMENDATIONS FOR OPTIMUM PERFORMANCE.	4'-0" AFF
S _{OS3}	THREE WAY DIMMER, LUTRON INT-1003P SERIES (INCANDESCENT) OR LUTRON INT-103P SERIES (FLUORESCENT & LED)	4'-0" AFF
S _{LV}	SWITCH, 0-10V VOLTAGE 0-10V, 1200W@120V, 1680W@277V, SLIDE DIMMER, GANG ONLY & WIRE PER MFG'S RECOMMENDATIONS. GREENGATE #VSD0-01SD3-COLOR.	4'-0" AFF
S ₊	FULL FEATURE DUAL TECHNOLOGY SENSOR WITH 360° COVERAGE #COOPER CONTROLS #0AC-DT-2000. ALSO REQUIRES GREENGATE SWITCHPACK PER LOAD AND #B's.	CEILING SURFACE
S ₊ V	FULL FEATURE DUAL TECHNOLOGY VACANCY SENSOR WITH 360° COVERAGE COOPER CONTROLS #0AC-DT-2000 WIRE FOR VACANCY MANUAL ON. ALSO REQUIRES GREENGATE SWITCHPACK PER LOAD AND #B's.	CEILING SURFACE
S ₊ T	FULL FEATURE DUAL TECHNOLOGY SENSOR, COOPER CONTROLS #0ACWC-DT-120W-R. ALSO REQUIRES GREENGATE SWITCHPACK PER LOAD AND #B's.	WALL, ACCORDING TO MFG RECOMMENDATIONS.
WP	WHERE "WP" IS INDICATED IN SUBSCRIPT, PROVIDE WATER TIGHT ENCLOSURE FOR SWITCHING.	

LIGHT FIXTURES	
SEE LIGHTING FIXTURE SCHEDULE FOR LETTER DESIGNATIONS AND MOUNTING	
SYMBOL	DESCRIPTION
	2x4, 2x2 LIGHTING FIXTURE ON NORMAL CIRCUIT.
	2x4, 2x2, AND DOWN LIGHT FIXTURES ON GENERATOR SUPPLIED CIRCUIT OR PROVIDED WITH EMERGENCY BATTERY. PROVIDE SWITCHING SUCH THAT SINGLE BALLAST FIXTURES ARE CONNECTED TO UNSWITCHED LEG OF GROUND CIRCUIT. MULTIBALLAST FIXTURES, CONNECT ONE BALLAST (INSIDE LUMENS) AND BATTERY BACK UP, IF APPLICABLE, TO UNSWITCHED LEG OF SAME BATTERY CIRCUIT. CONNECT OTHER WALL BALLAST TO SWITCHED AREA LIGHTS.
	EXIT SIGN AS NOTED IN SYMBOL SCHEDULE

TELEPHONE/DATA/COMMUNICATIONS		
SEE RISER SHEET E402 & DETAILS SHEETS E401 & E402 FOR ADDITIONAL INFORMATION		
SYMBOL	DESCRIPTION	MOUNTING - GIVEN TO TOP OF DEVICE (OR AS NOTED)
	DATA OUTLET BOX WITH (2) CAT6 DATA DROP IN "F" CONDUIT. SUBSCRIPT NUMBER DENOTES QUANTITY OF DATA DROPS IF OTHER THAN 2. PROVIDE BOX, "F" CONDUIT, OUTLET & DATA TO ABOVE ACCESSIBLE CEILING. SEE DETAIL, SHEET E402.	1'-6" AFF
	DATA OUTLET BOX PROVIDE BOX, AS NOTED ABOVE, EXCEPT MOUNTING HEIGHT.	6" ACT TO BTM WHEN THERE IS NO COUNTER, MNT AT 4'2" AFF TO BTM
	TELEPHONE OUTLET BOX PROVIDE BOX, "F" CONDUIT, SINGLE OUTLET RING & DATA TO ABOVE ACCESSIBLE CEILING. SEE DETAIL, SHEET E402.	1'-6" AFF
	TELEPHONE OUTLET BOX, AS NOTED ABOVE, EXCEPT MOUNTING HEIGHT.	WALL @ 8'-0" AFF OR 6" ACT TO BTM - WHEN THERE IS NO COUNTER, MNT AT 4'2" AFF TO BTM
	SUBSCRIPT "A" NOTED ADJACENT SYMBOL INDICATES ANALOG SIGNAL DROPPED. BOXES & DEVICES AS ABOVE EXCEPT TERMINATION.	1'-6" AFF
	WHERE "WP" IS NOTED E.C. TO PROVIDE GASKETED BACK BOX, TYPICAL.	6" ACT TO BTM WHEN THERE IS NO COUNTER, MNT AT 4'2" AFF TO BTM
	COMBINATION TELEPHONE/ATA OUTLET BOX, PROVIDE BOX, "F" CONDUIT, SINGLE OUTLET RING & DATA TO ABOVE ACCESSIBLE CEILING. SEE DETAIL, SHEET E402.	1'-6" AFF
	COMBINATION DATA/TELEPHONE OUTLET BOX, AS NOTED ABOVE, EXCEPT MOUNTING HEIGHT.	6" ACT TO BTM WHEN THERE IS NO COUNTER, MNT AT 4'2" AFF TO BTM
	DEVICES AS NOTED ABV, EXCEPT MOUNTED IN CEILING.	CILING RECESSED
	DATA AND/OR ADDITIONAL OUTLET FLOOR BOX. SEE RECEPTACLE SYMBOL SCHEDULE FOR ADDITIONAL INFORMATION. PROVIDE ADDITIONAL TELEPHONE DEVICES AS NOTED IN SYMBOL SCHEDULE AND COORDINATE WITH OWNER FOR SPECIFIC ADDITIONAL COMPONENT REQUIREMENTS.	FLUSH WITH FLOOR
	MAN DATA RACK, SEE DETAIL, SHEET E402.	CEILING RECESSED
	WIRELESS ACCESS POINT PROVIDE BOX, "F" CONDUIT, SINGLE OUTLET RING & (1) CAT6 & CABLE BACK TO NEAREST FLOOR DATA ROOM. VERIFY ALL LOCATIONS PRIOR TO WORK.	1'-6" AFF
	TELEVISION OUTLET BOX, SYSTEM IS PROVIDED BY OWNER, INSTALLED BY OWNERS CONTRACTOR. BOXES, CONDUIT, POWER AND DATA BY ELECTRICAL CONTRACTOR. SEE DETAIL, SHEET E402.	6" ACT AFF, UNLESS NOTED OTHERWISE
	TELEVISION OUTLET BOX, AS NOTED ABOVE, EXCEPT MOUNTING HEIGHT.	
	REFERENCE GROUNDING SYSTEM IN ALL ELECTRICAL ROOMS AND IN ROOM. ELECTRICAL CONTRACTOR TO PROVIDE MATERIALS AND LABOR AS REQUIRED TO INSTALL A COMPLETE REFERENCE GROUNDING WIRING SYSTEM IN THE AREA INDICATED. SYSTEM SHALL INCLUDE BUT NOT BE LIMITED TO 40 COPPER GROUNDING CONDUCTOR TO MAIN SERVICE GROUND LOCATION, CONNECTION, COPPER GROUNDING BUS TERMINAL LUGS, NO. 40 BARE COPPER CONDUCTOR ROUTED AROUND THE PERIMETER OF ROOM OR AT THE CONTRACTORS OPTION, HE MAY USE A 36" COPPER GROUNDING BUS (REFERENCE POINT), NO. 4 COPPER MINIMUM CONNECTION TO EACH PEACE OF ELECTRICAL OR IT EQUIPMENT INSTALLED WITHIN THE SPACE FOR A COMPLETE REFERENCE GROUND SYSTEM AS DETAILED ON THE DRAWINGS OR AS REQUIRED BY ARTICLE 81 OF THE NATIONAL ELECTRICAL CODE, TYPICAL.	AS REQD
	IN HEALTH CARE ENVIRONMENTS ALL ELECTRICAL EQUIPMENT SERVING THE SAME PATIENT AREA (BOTH NEW AND EXISTING) SHALL BE BOND TOGETHER WITH AN INSULATED COPPER CONDUCTOR NOT LESS THAN 4 NO. 10 IN SIZE, REFER TO NEC, ART. 517.14 FOR ADDITIONAL INFORMATION.	

ELECTRICAL SUMMARY - ELECTRICAL SYSTEMS AND EQUIPMENT			
METHOD OF COMPLIANCE			
ENERGY CODE:	■ PREScriptive	□ PERFORMANCE	
ASHRAE 90.1:	□ PREScriptive	□ PERFORMANCE	
LIGHTING SCHEDULE			
LAMP REQUIRED IN FIXTURE	SEE FIXTURE SCHEDULE SHOWN ON E001		
NUMBER OF LAMPS IN FIXTURE	SEE FIXTURE SCHEDULE SHOWN ON E001		
BALLAST TYPE USED IN THE FIXTURE	SEE FIXTURE SCHEDULE SHOWN ON E001		
NUMBER OF BALLASTS IN FIXTURE	SEE FIXTURE SCHEDULE SHOWN ON E001		
TOTAL WATTAGE PER FIXTURE	SEE FIXTURE SCHEDULE SHOWN ON E001		
TOTAL INTERIOR WATTAGE SPECIFIED VS ALLOWED	SPECIFIED: 8.81 kW	ALLOWED: 13.18 kW	
TOTAL EXTERIOR WATTAGE SPECIFIED VS ALLOWED	SPECIFIED: 0.44 kW	ALLOWED: 0.91 kW	
ADDITIONAL PREScriptive COMPLIANCE			
■ C406.3 MORE EFFICIENT HVAC EQUIPMENT			
■ C406.3 REDUCED LIGHTING POWER DENSITY			
□ C406.4 ENHANCED DIGITAL LIGHTING CONTROLS			
■ C406.5 ON-SITE SUPPLY OF RENEWABLE ENERGY			
□ C406.6 DEDICATED OUTDOOR AIR SYSTEM			
■ C406.7 REDUCED ENERGY USE IN SERVICE WATER HEATING			
□ C406.7.1 LOAD FRACTION			
Needs to be 10%, or better, below allowed			

ABBREVIATIONS

(X)	EXISTING	AF	ABOVE FINISHED FLOOR	B	BOILER	OKT	CIRCUIT	CU	COPPER	EI	ELECTRICAL INTERLOCK	FBS	FUSED DISCONNECT SWITCH	HOA	HANDS-OFF AUTO SELECTOR SWITCH	LRA	LOCKED ROTOR AMPS	MCS	MOLDED CASE CIRCUIT BREAKER	NFOS	NOT IN CONTRACT	PH	PANEL	SW	SWITCH	VA	VARIABLE FREQUENCY DRIVE
(N)	NEW	AB	ABOVE FINISHED GRADE	BA	BUILDING AUTOMATION SYSTEMS	HL	HEATING	LS	LOAD SHED UNIT	LS	LINE REACTOR	VAR	VARIABLE FREQUENCY DRIVE	NO	NORMALLY OPEN	PL	PLUMBING	MLD	MAIN LUG ONLY	NO	NORMALLY OPEN	PH	PANEL	SW	SWITCH	VA	VARIABLE FREQUENCY DRIVE
(D)	DEMOLISH	AFR	ABOVE FINISHED ROOF	BC	BYPASS CONTACTOR	CO	CONDUIT ONLY	DS	DISTRIBUTION PANEL	EOL	END OF LINE RESISTOR	FL	FLOOR	MLO	MAIN LUG ONLY	PL	PLUMBING	MLD	MAIN LUG ONLY	NO	NORMALLY OPEN	PH	PANEL	SW	SWITCH	VA	VARIABLE FREQUENCY DRIVE
(R)	RELOCATE	AHJ	AUTHORITY HAVING JURISDICTION	BLO	BUILDING	COMP	COMPRESSOR	DIS	DISCONNECT SWITCH	EXP	EXPLOSION PROOF	FZ	FREEZE/STAT	MT	MOUNT	RF	RETURN AIR FAN	UG	UNDERGROUND	NTS	NOT TO SCALE	PH	PANEL	SW	SWITCH	VA	VARIABLE FREQUENCY DRIVE
(A)	AMPS	AHJ	AUTHORITY HAVING JURISDICTION	BLO	BUILDING	COMP	COMPRESSOR	DIS	DISCONNECT SWITCH	EXP	EXPLOSION PROOF	FZ	FREEZE/STAT	MT	MOUNT	RF	RETURN AIR FAN	UG	UNDERGROUND	NTS	NOT TO SCALE	PH	PANEL	SW	SWITCH	VA	VARIABLE FREQUENCY DRIVE
AC	AIR CONDITIONING UNIT	AC	AMPS INTERRUPTING CAPACITY	C	CONDUIT	OPT	CONTROL POWER TRANSFORMER	EC	ELECTRICAL CONTRACTOR	ENC	ELECTRIC WATER COOLER	GFI	GROUND FAULT INTERRUPTER	MTG	MOUNTING	SP	SUPPLY AIR FAN	UL	UNDERWRITERS LABORATORIES, INC.	WP	WEATHERPROOF	P	PUMP	SW	SWITCH	VA	VARIABLE FREQUENCY DRIVE
AD	AUTOMATIC TRANSFER SWITCH	ATS	AUTOMATIC TRANSFER SWITCH	C/B	CIRCUIT BREAKER	CR	CRITICAL BRANCH	EDP	EMERGENCY DISTRIBUTION PANEL	EXIST	EXISTING	GF	GROUND FAULT PROTECTION	N	NORMAL BRANCH	SE	SELECTION	UNO	UNLESS NOTED OTHERWISE	XFMR	TRANSFORMER	PB	PUSH BUTTON	SW	SWITCH	VA	VARIABLE FREQUENCY DRIVE
AD	AUTOMATIC DOOR	AV	AUDIO VISUAL	CH	CHILLER	CT	CURRENT TRANSFORMER	EF	EXHAUST FAN	FCU	FAN COIL UNIT	GND	GROUND	PC	PLUMBING CONTRACTOR	SC	SOUND SYS. CONSULTANT	V	VOLTS								

ELECTRICAL LOAD SUMMARY	
SERVICE VOLTAGE = 480/277 VOLT, 3 PHASE, 4 WIRE	
SERVICE WIRING = (1) SET OF (4) #500MCM (CU), 4" CONDUIT EACH SET	
SERVICE CAPACITY = 381 KVA	
LOAD CLASSIFICATION	CONNECTED LOAD
LIGHTING	8.81 KVA
OUTDOOR LIGHTING	0.44 KVA
ELECTRIC WATER HEATING	12.80 KVA
KITCHEN EQUIPMENT	20.61 KVA
AHUS/FOCUS/SE/SMISC. MECH EQUIP.	11.78 KVA
ELECTRIC HEAT	90.33 KVA
HEAT PUMPS	4.44 KVA
CHILLERS/CONDENSING SYSTEMS/RTUS	79.45 KVA
MOTORS & MISC. EQUIPMENT	6.51 KVA
FUTURE HVAC (RTU/HVAC - ESTIMATED)	19.00 KVA
FUTURE ELEVATOR (ESTIMATED)	55.00 KVA
RECEPTABLES (FIRST 10KVA)	10.0 KVA
RECEPTABLES (REMAINDER OVER 10KVA)	25.20 KVA
TOTALS	496.87 KVA

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NOTICE: NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS GIVEN WITH RESPECT TO THE ACCURACY OF INFORMATION PROVIDED IN THE ELECTRICAL LOAD SUMMARY, AND USER MUST ASSUME ALL RISKS IN CONNECTION WITH USE THEREOF. THE VOLTAGE AND PHASE REQUIREMENT OF ELECTRICAL SYSTEM LOAD DATA ARE BASED ON CONVENTIONAL ENGINEERING PRINCIPLES AT THE TIME OF DESIGN, AND ARE INTENDED TO BE USED ONLY AS A GUIDE IN ESTIMATING LOADS TO BE SERVED. FOR ACTUAL LOADS, USER IS ADVISED TO REFER TO NAME-PLATE DATA OF EXACT EQUIPMENT PURCHASED AND INSTALLED.	WHERE INDICATED
REECE, NOLAND & McELRATH, INC. ENGINEERS	

Panel: MDP																			
Location: ELEC. 204					Volts: 480/277 Wye					A.I.C. Rating: 65KA									
Supply From: MDP					Phases: 3					Mains Type: MCB									
Mounting: Surface					Wires: 4					Mains Rating: 700 A									
Enclosure: NEMA 1										Neutral Rating: 100.00%									
PROVIDE DOOR-IN DOOR HINGED...										TOTAL LOAD: 323.3 KVA					TOTAL AMPS: 388.9 A				
CKT	DESCRIPTION	WIRE SIZE	COND	BKR	A	B	C	BKR	COND	WIRE SIZE	DESCRIPTION	CKT							
1	SURGE SUPPRESSION DEVICE	--		3-60 A	0.0 KVA	64.1 KVA				3-225 A	2-1/2"	3-#40, 1-#40, 1-#4	TRANSFORMER TX	2					
3					3.9 KVA	6.4 KVA		0.0 KVA		52.3 KVA				4					
5	PANEL 1'	3-#3, 1-#3, 1-#8	1-1/2"	3-100 A		2.0 KVA	6.4 KVA			3-30 A		3-#10, 1-#10, 1-#10	ROOFTOP UNIT #1, RTU-1	6					
7					9.1 KVA	10.8 KVA		1.3 KVA	6.4 KVA					8					
9							9.1 KVA	10.8 KVA						10					
11	CONDENSING UNIT #1, CU-1	3-#8, 1-#8, 1-#10	1"	3-40 A		9.1 KVA	10.8 KVA			3-40 A	1"	3-#8, 1-#8, 1-#10	AIR HANDLER UNIT #1, AHJ-1	12					
13							9.1 KVA	10.8 KVA						14					
15					9.1 KVA	10.8 KVA				3-40 A	1"	3-#8, 1-#8, 1-#10	AIR HANDLER UNIT #2, AHJ-2	16					
17	CONDENSING UNIT #2, CU-2	3-#8, 1-#8, 1-#10	1"	3-40 A		9.1 KVA	10.8 KVA			3-40 A	1"	3-#8, 1-#8, 1-#10	AIR HANDLER UNIT #2, AHJ-2	18					
19							9.1 KVA	10.8 KVA						20					
21					1.9 KVA	--		1.9 KVA	--	3-	--		SPACE ONLY	22					
23						1.9 KVA	--			3-	--		SPACE ONLY	24					
25	CONDENSING UNIT #3, CU-3	3-#12, 1-#12, 1-#14	3-15 A											26					
27					--	--		1.9 KVA	--					28					
29					--	--								30					
31	SPACE ONLY	--		3-		--	--	--	--	3-	--			SPACE ONLY	32				
33					--	--								34					
35					--	--								36					
37					--	--								38					
39	SPACE ONLY	--		3-		--	--	--	--	3-	--			SPACE ONLY	40				
41														42					
Total Load:					116.2 KVA	105.9 KVA	101.3 KVA												
Total Amps:					421.9 A	384.6 A	365.7 A												
LEGEND: * = GFCl CIRCUIT BREAKER; ** = LOCKING CIRCUIT BREAKER																			
SQUARE "D" No. I-Line HCP SERIES, 480/277 VOLTS, 3ø, 4 WIRE, SOLID NEUTRAL, TINNED COPPER BUS BARS, GROUND BAR, 600 AMPERE MAIN BREAKER, SURFACE MOUNTED, DOOR-IN-DOOR COVER PANEL, WITH BOLT IN BRANCH BREAKERS, SIZE AS INDICATED, MINIMUM FRAME SIZE AND A.I.C. RATING AS FOLLOWS:																			
MINIMUM BREAKER FRAME FOR "I-LINE" SERIES: 1POLE="FH" (25K AIC), 2.3 POLE BELOW 150 A.=TYPE "HG" (35K AIC), 2.3 POLE 150 A.-250 A.="JG" (35K AIC)																			
NOTES: UNO ALL CONDUIT TO BE 3/4" EMT; UNO BELOW ALL SPARES TO BE 1P-20A																			
NOTES: MINIMUM FEEDER SIZE TO BE #12. DISREGARD SCHEDULE 'WIRE SIZE' FOR #14 OR SMALLER & UTILIZE #12.																			

Panel: SDP														
Location: ELEC. 204					Volts: 120/208 Wye					A.I.C. Rating: 65KA				
Supply From: TX					Phases: 3					Mains Type: MCB				
Mounting: Surface					Wires: 4					Mains Rating: 500 A				
Enclosure: NEMA 1					Neutral Rating: 100.00%									
PROVIDE DOOR-IN DOOR HINGED COVER														
CKT	DESCRIPTION	WIRE SIZE	COND	BKR	A	B	C	BKR	COND	WIRE SIZE	DESCRIPTION	CKT		
1					0.0 KVA	12.4 KVA						2		
3	SURGE SUPPRESSION DEVICE	--		3-60 A		0.0 KVA	11.2 KVA			3-225 A	2-1/2"	3-#40, 1-#40, 1-#4	PANEL K	4
5					16.3 KVA	14.0 KVA		0.0 KVA	9.3 KVA			6		
7												8		
9	PANEL R1	3-#40, 1-#40, 1-#4	2-1/2"	3-225 A		13.1 KVA	12.4 KVA			3-225 A	2-1/2"	3-#40, 1-#40, 1-#4	PANEL R2	10
11							12.7 KVA	12.4 KVA				12		
13	UNIT HEATER #1, UH-1	2-#12, 1-#12, 1-#12	2-20 A	1.5 KVA	1.5 KVA	1.5 KVA	1.5 KVA	1.5 KVA	2-20 A	2-#12, 1-#12, 1-#12	UNIT HEATER #2, UH-2	14		
15						1.5 KVA	1.5 KVA	1.5 KVA	1.5 KVA	2-20 A	2-#12, 1-#12, 1-#12	UNIT HEATER #4, UH-4	16	
17	UNIT HEATER #3, UH-3	2-#12, 1-#12, 1-#12	2-20 A	1.5 KVA	1.5 KVA	1.5 KVA	1.5 KVA	1.5 KVA	2-20 A	2-#12, 1-#12, 1-#12	UNIT HEATER #3, UH-3	18		
19						1.5 KVA	1.5 KVA	1.5 KVA	1.5 KVA	2-20 A	2-#12, 1-#12, 1-#12	UNIT HEATER #9, UH-9	20	
21	UNIT HEATER #5, UH-5	2-#12, 1-#12, 1-#12	2-20 A	1.5 KVA	1.5 KVA	1.5 KVA	1.5 KVA	1.5 KVA	2-20 A	2-#12, 1-#12, 1-#12	UNIT HEATER #5, UH-5	22		
23						1.5 KVA	1.5 KVA	1.5 KVA	1.5 KVA	2-20 A	2-#12, 1-#12, 1-#12	UNIT HEATER #6, UH-6	24	
25	UNIT HEATER #8, UH-8	2-#12, 1-#12, 1-#12	2-20 A	1.5 KVA	1.9 KVA	1.5 KVA	1.9 KVA	1.5 KVA	2-25 A	2-#10, 1-#10, 1-#10	UNIT HEATER #8, UH-8	26		
27						1.5 KVA	1.9 KVA	1.5 KVA	1.9 KVA	2-25 A	2-#10, 1-#10, 1-#10	UNIT HEATER #10, UH-10	28	
29	OUTDOOR UNIT #6, OU-6	2-#10, 1-#10, 1-#10	2-25 A	1.3 KVA	1.9 KVA	1.3 KVA	1.9 KVA	1.3 KVA	2-25 A	2-#10, 1-#10, 1-#10	UNIT HEATER #10, UH-10	30		
31						0.5 KVA	1.9 KVA	0.5 KVA	1.9 KVA	2-20 A	2-#12, 1-#12, 1-#12	UNIT HEATER #11, UH-11	32	
33	AIR HANDLER UNIT #3, AHJ-3	2-#12, 1-#12, 1-#14	2-15 A			0.5 KVA	1.9 KVA			2-20 A	2-#12, 1-#12, 1-#12	UNIT HEATER #11, UH-11	34	
35					4.8 KVA	2.6 KVA	4.8 KVA	2.6 KVA	0.5 KVA	1.9 KVA		36		
37	AIR HANDLER UNIT #3 ELECTRIC HEAT	3-#6, 1-#6, 1-#10	1-1/4"	3-45 A		4.8 KVA	2.6 KVA			2-30 A	1"	2-#8, 1-#8, 1-#8	OUTDOOR UNIT #2, OU-2	38
39							4.8 KVA	1.5 KVA		2-30 A	2-#10, 1-#10, 1-#10	OUTDOOR UNIT #3, OU-3	40	
41	SPACE ONLY	--		1-	--	1.5 KVA		4.8 KVA	1.5 KVA	2-30 A	2-#10, 1-#10, 1-#10	OUTDOOR UNIT #3, OU-3	42	
43					--	--							44	
45					--	--							46	
47	SPACE ONLY	--		3-			--	--	--	3-	--	SPACE ONLY	48	
49					--	--							50	
51					--	--							52	
53	SPACE ONLY	--		3-			--	--	--	3-	--	SPACE ONLY	54	
55					--	--							56	
57					--	--							58	
59	SPACE ONLY	--		3-			--	--	--	3-	--	SPACE ONLY	60	
61					--	--							62	
Total Load:					64.1 KVA	55.9 KVA	52.3 KVA							
Total Amps:					538.9 A	469.9 A	436.0 A							
LEGEND: * = GFCl CIRCUIT BREAKER; ** = LOCKING CIRCUIT BREAKER														
SQUARE "D" No. I-Line HCP SERIES, 208/120 VOLTS, 3ø, 4 WIRE, SOLID NEUTRAL, TINNED COPPER BUS BARS, GROUND BAR, 500 AMPERE MAIN BREAKER, SURFACE MOUNTED, DOOR-IN-DOOR COVER PANEL, WITH BOLT IN BRANCH BREAKERS, SIZE AS INDICATED, MINIMUM FRAME SIZE AND A.I.C. RATING AS FOLLOWS:														
MINIMUM BREAKER FRAME FOR "I-LINE" SERIES: 1POLE="FH" (25K AIC), 2.3 POLE BELOW 150 A.=TYPE "HG" (35K AIC), 2.3 POLE 150 A.-250 A.="JG" (35K AIC)														
NOTES: UNO ALL CONDUIT TO BE 3/4" EMT; UNO BELOW ALL SPARES TO BE 1P-20A														
NOTES: MINIMUM FEEDER SIZE TO BE #12. DISREGARD SCHEDULE 'WIRE SIZE' FOR #14 OR SMALLER & UTILIZE #12.														

Load Classification		Total Amps: 538.9 A	469.9 A	436.0 A	Panel Totals	
LTS	Connected Load	1.20 kVA	100.00%	1.20 kVA		
RCPT	104.96 kVA	100.00%	104.96 kVA	Total Conn. Load: 172.3 kVA		
Power	66.02 kVA	57.57%	38.01 kVA	Total Est. Demand: 144 kVA		
Lighting	0.14 kVA	100.00%	0.14 kVA	Total Conn. Current: 478.3 A		
				Total Est. Demand Current: 400.5 A		

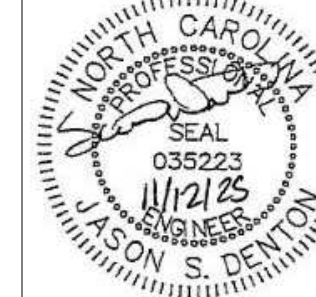
LEGEND: * = GFCI CIRCUIT BREAKER; ** = LOCKING CIRCUIT BREAKER

SQUARE "D" No. I-Line HCP SERIES, 208/120 VOLTS, 3ø, 4 WIRE, SOLID NEUTRAL, TINNED COPPER BUS BARS, GROUND BAR, 500 AMPERE MAIN BREAKER, SURFACE MOUNTED, DOOR-IN-DOOR COVER PANEL, WITH BOLT IN BRANCH BREAKERS, SIZE AS INDICATED, MINIMUM FRAME SIZE AND A.I.C. RATING AS FOLLOWS:
MINIMUM BREAKER FRAME FOR "I-LINE" SERIES: 1POLE="FH" (25K AIC), 2.3 POLE BELOW 150 A=TYPE "HG" (35K AIC), 2.3 POLE 150 A-250 A="UG" (35K AIC)
NOTES: UNO ALL CONDUIT TO BE 3/4" EMT; UNO BELOW ALL SPARES TO BE 1P-20A
NOTES: MINIMUM FEEDER SIZE TO BE #12. DSRGARD SCHEDULE "WIRE SIZE" FOR #14 OR SMALLER & UTILIZE #12.

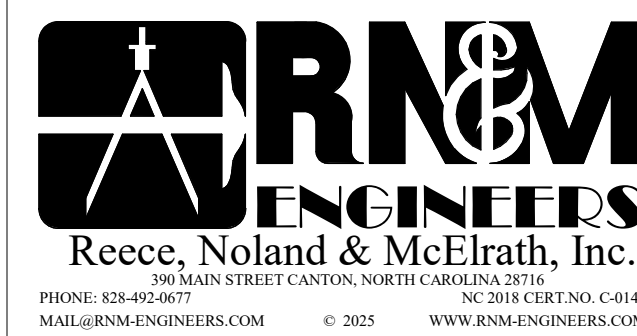
Panel: K																
Location: MULTI-PURPOSE ROOM...										Volts: 120/208 Wye			A.I.C. Rating: 10kA			
Supply From: SDP										Phases: 3			Mains Type: MCB			
Mounting: Surface										Wires: 4			Mains Rating: 225 A			
Enclosure: Indoor													Neutral Rating: 100.00%			
PROVIDE DOOR-IN DOOR HINGED COVER										TOTAL LOAD:			32.9 kVA TOTAL...		91.2 A	
CKT	DESCRIPTION	WIRE SIZE	COND	BKR	A	B	C	BKR	COND	WIRE SIZE	DESCRIPTION	CKT				
1	RCPT: COUNTER, KITCHEN	1-#12, 1-#12, 1-#12	1-20 A	0.9 kVA	4.0 kVA					3-50 A	1"	3-#6, 1-#6, 1-#10	DISHWASHER BOOSTER HEATER	2		
3	RCPT: ICEMAKER	1-#12, 1-#12, 1-#14	1-15 A			12 kVA	4.0 kVA							4		
5	RCPT: COFFEE MAKER	1-#12, 1-#12, 1-#14	1-15 A					1.7 kVA	4.0 kVA					6		
7	RCPT: MICROWAVE	2-#12, 1-#12, 1-#12	2-20 A	0.9 kVA	2.5 kVA					2-30 A	2-#10, 1-#10, 1-#10	DISHWASHER	8			
9	RCPT: POPCORN MACHINE	1-#12, 1-#12, 1-#14	1-15 A			0.9 kVA	2.5 kVA			2-30 A	2-#10, 1-#10, 1-#10	AIR CURTAIN	10			
13	RCPT: FREEZER	1-#12, 1-#12, 1-#14	1-15 A	0.7 kVA	1.9 kVA			1.4 kVA	0.3 kVA	1-20 A	1-#12, 1-#12, 1-#12	COMBI-OVEN	12			
15	RCPT: REACH-IN FRIDGE	1-#12, 1-#12, 1-#14	1-15 A			0.7 kVA	1.9 kVA			3-20 A	3-#12, 1-#12, 1-#12		14			
17	SPACE ONLY	--	1-					--	1.9 kVA					16		
19	SPACE ONLY	--	1-	--	1.5 kVA					1-20 A	1-#12, 1-#12, 1-#12	RCPT: PROOFER	20			
21	SPACE ONLY	--	1-			--	--			1-	--	SPACE ONLY	22			
23	SPACE ONLY	--	1-					--	--	1-	--	SPACE ONLY	24			
25	SPARE	--	1-20 A	0.0 kVA	0.0 kVA					1-20 A	--	SPARE	26			
27	SPARE	--	1-20 A			0.0 kVA	0.0 kVA			1-20 A	--	SPARE	28			
29	SPARE	--	1-20 A					0.0 kVA	0.0 kVA	1-20 A	--	SPARE	30			
				Total Load:	12.4 kVA	11.2 kVA	9.3 kVA									
				Total Amps:	105.7 A	85.7 A	77.3 A									

LEGEND: * = GFCI CIRCUIT BREAKER; ** = LOCKING CIRCUIT BREAKER

SQUARE "D" No. QOOD SERIES, 208/120 VOLTS, 3ø, 4 WIRE, SOLID NEUTRAL, TINNED COPPER BUS BARS, GROUND BAR, 225 AMPERE MAIN LUGS, SURFACE MOUNTED, DOOR-IN-DOOR COVER PANEL, WITH BOLT IN BRANCH BREAKERS, SIZE AS INDICATED, MINIMUM FRAME SIZE AND A.I.C. RATING AS FOLLOWS:
MINIMUM BREAKER FRAME FOR "QOOD" SERIES: 1POLE="QOB", 2.3 POLE BELOW 100A=QOB (10K AIC), 2.3 POLE ABOVE 100A ="QOB-V" (22K AIC)
NOTES: UNO ALL CONDUIT TO BE 3/4" EMT; UNO BELOW ALL SPARES TO BE 1P-20A
NOTES: MINIMUM FEEDER SIZE TO BE #12. DSRGARD SCHEDULE "WIRE SIZE" FOR #14 OR SMALLER & UTILIZE #12.



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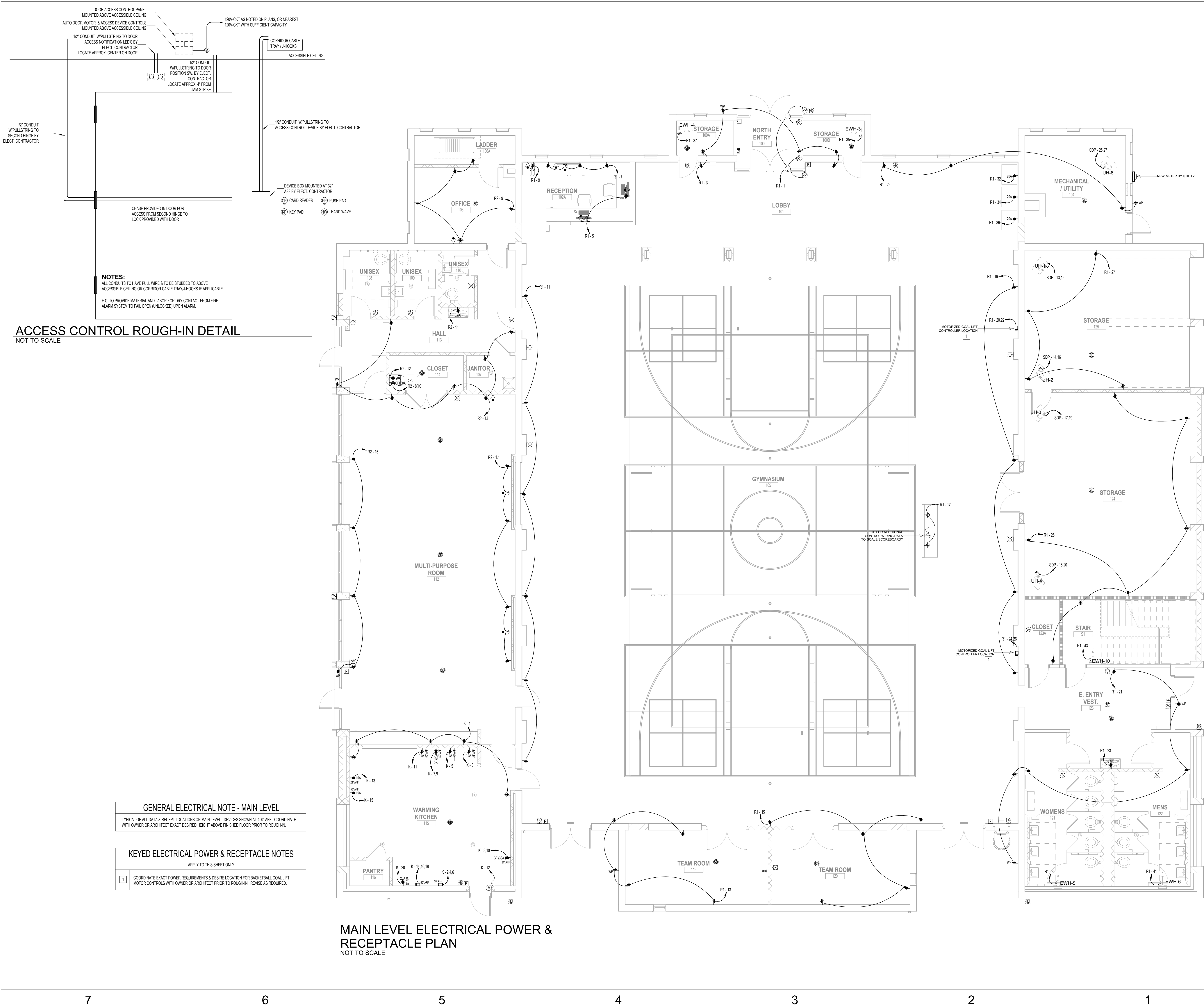
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DATE MARK DESCRIPTION

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MAIN LEVEL ELECTRICAL POWER & RECEPTACLE PLAN

E101



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• Architecture

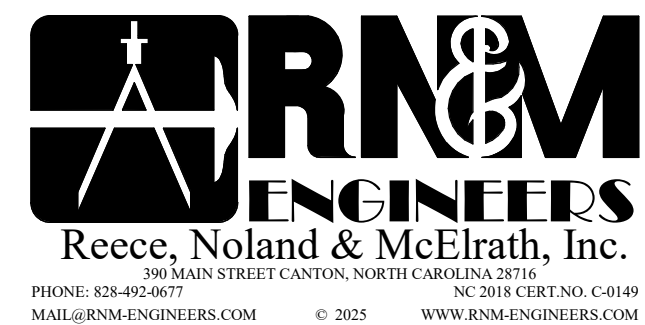
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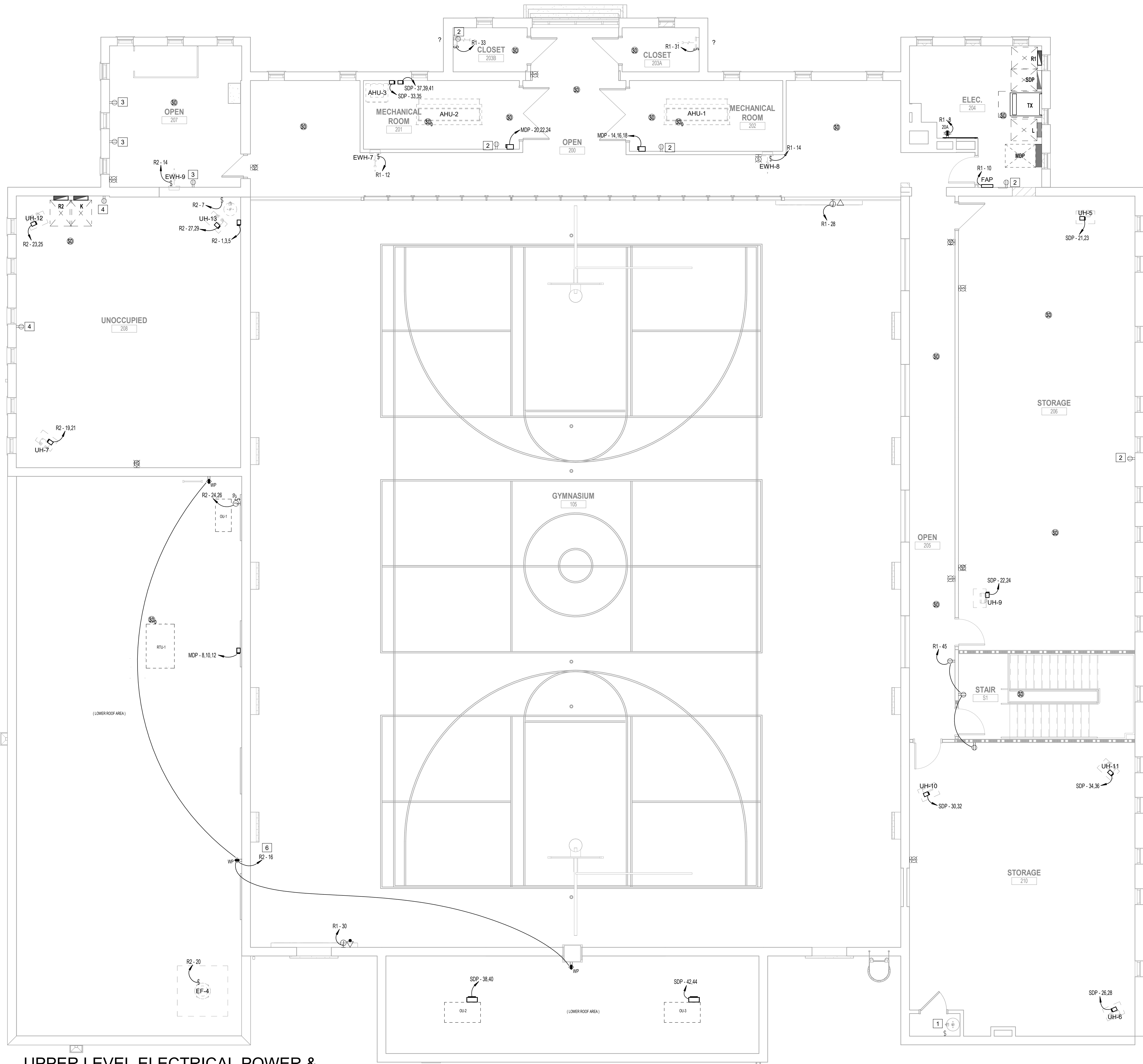
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UPPER LEVEL
ELECTRICAL POWER &
RECEPTACLE PLAN

E102



UPPER LEVEL ELECTRICAL POWER &
RECEPTACLE PLAN
NOT TO SCALE

KEYED ELECTRICAL POWER & RECEPTACLE NOTES

APPLY TO THIS SHEET ONLY

- EXISTING DISCONNECT AT EXISTING WATER HEATER TO BE CIRCUITED NEW PANEL. SEE PANEL SCHEDULE FOR FEEDER & CONDUIT SIZES. POWER FROM NEW PANEL 'R1', CIRCUIT #2.
- EXISTING RECEPTACLE(S) IN MULTI-PURPOSE 206, MECHANICAL RMS & NORTH CLOSETS TO BE CIRCUITED TO NEW PANEL. SEE PANEL SCHEDULE FOR FEEDER & CONDUIT SIZES. POWER FROM NEW PANEL 'R1', CIRCUIT #4. ANY EXISTING RECEPTACLES WITHIN THE AREA NOT SHOWN ON PLANS TO BE ADDED TO THIS CIRCUIT. VERIFY SUFFICIENT BREAKER CAPACITY & REVISE IF REQUIRED.
- EXISTING RECEPTACLE(S) IN STORAGE 207 TO BE CIRCUITED TO NEW PANEL. SEE PANEL SCHEDULE FOR FEEDER & CONDUIT SIZES. POWER FROM NEW PANEL 'R2', CIRCUIT #2. ANY EXISTING RECEPTACLES WITHIN THE AREA NOT SHOWN ON PLANS TO BE ADDED TO THIS CIRCUIT. VERIFY SUFFICIENT BREAKER CAPACITY & REVISE IF REQUIRED.
- EXISTING RECEPTACLE(S) IN MULTI-PURPOSE 208 TO BE CIRCUITED NEW PANEL. SEE PANEL SCHEDULE FOR FEEDER & CONDUIT SIZES. POWER FROM NEW PANEL 'R2', CIRCUIT #4. ANY EXISTING RECEPTACLES WITHIN THE AREA NOT SHOWN ON PLANS TO BE ADDED TO THIS CIRCUIT. VERIFY SUFFICIENT BREAKER CAPACITY & REVISE IF REQUIRED.
- COORDINATE EXACT LOCATION, HEIGHT & REQUIREMENTS FOR SCOREBOARD PRIOR TO ROUGH-IN. REVISE AS REQUIRED.
- CONVENIENCE / MAINTENANCE RECEPTACLE CIRCUIT ON LOWER ROOF TO BE SHARE WITH UPPER ROOFTOP CONVENIENCE / MAINTENANCE RECEPTACLES.

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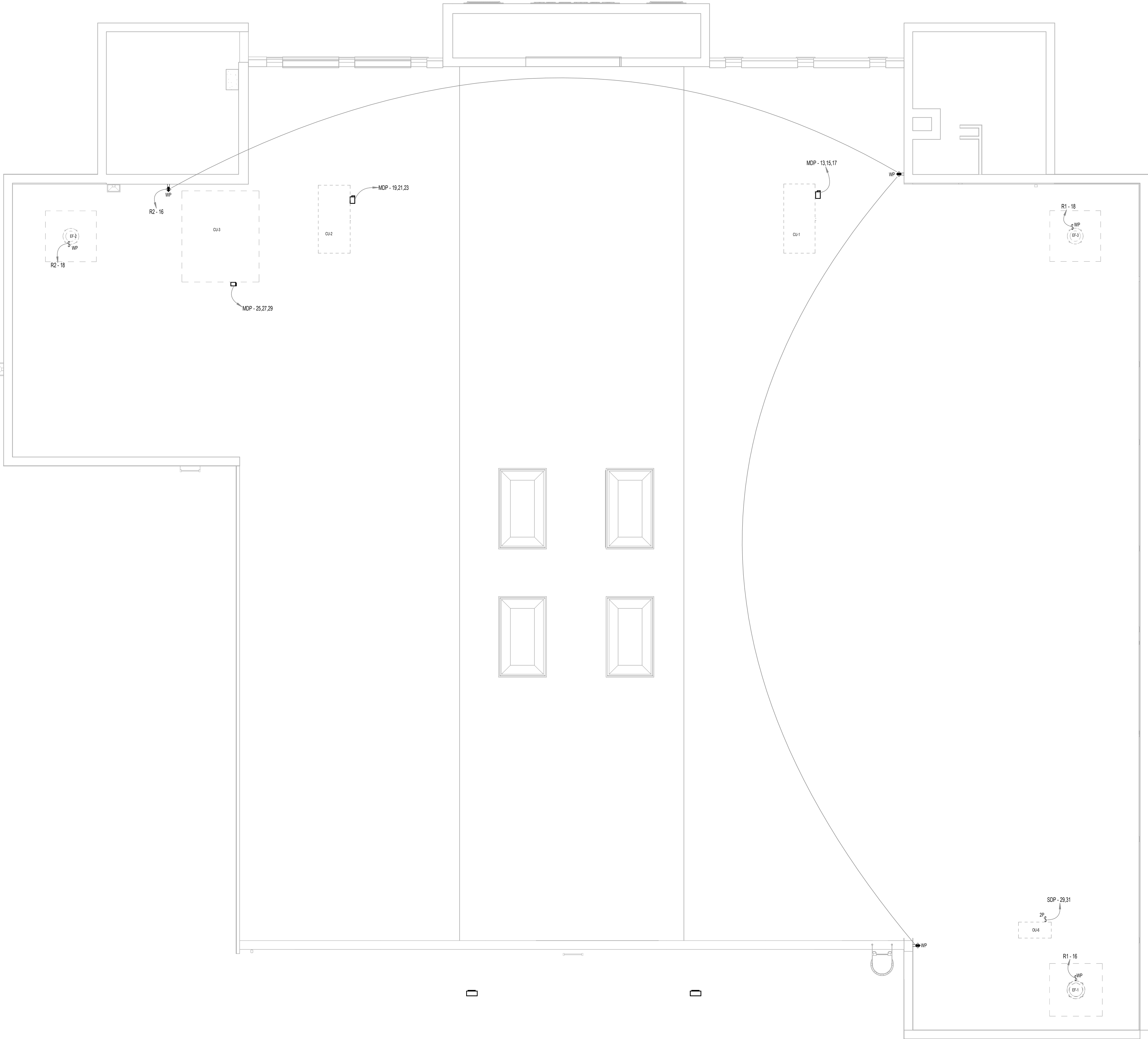
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3

2

1

ROOF LEVEL ELECTRICAL PLAN
NOT TO SCALE



F

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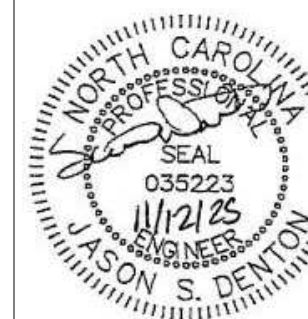
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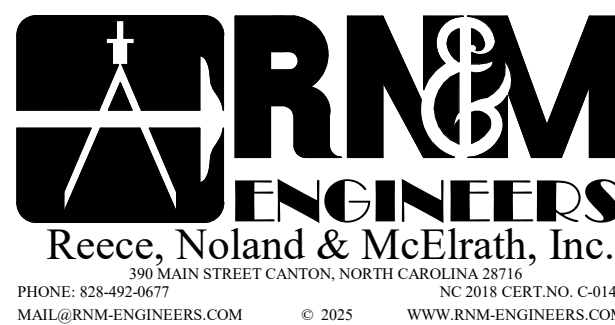
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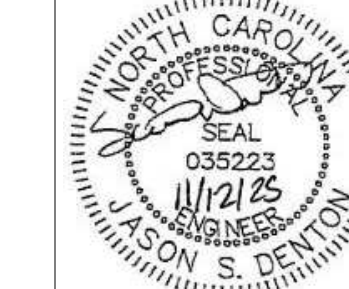
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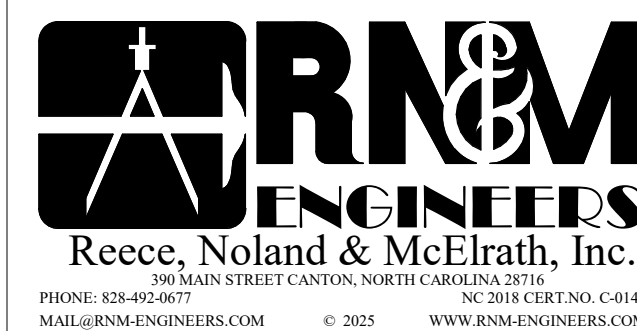
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ROOF LEVEL
ELECTRICAL PLAN

E103



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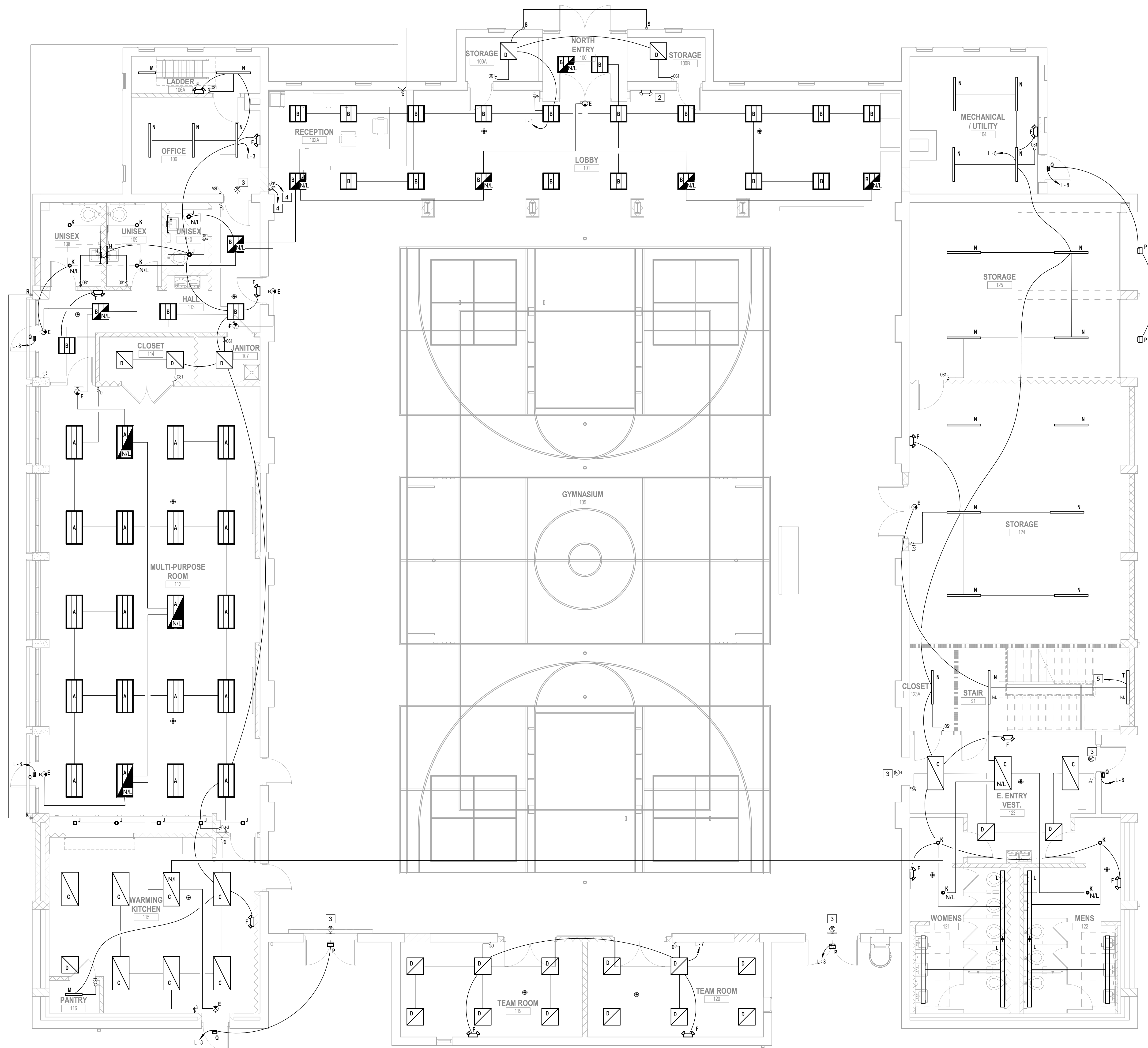
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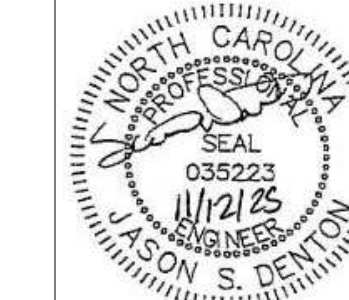
MAIN LEVEL ELECTRICAL LIGHTING
PLAN

E201

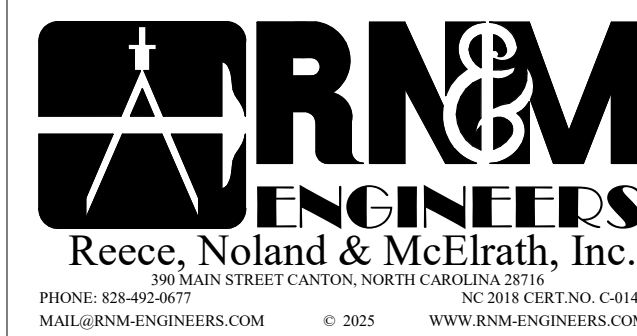


MAIN LEVEL ELECTRICAL LIGHTING
PLAN
NOT TO SCALE

KEYED ELECTRICAL LIGHTING NOTES	
APPLY TO THIS SHEET ONLY	
1	CONNECT NEW LIGHT FIXTURES TO EXISTING SWITCHES WITH 3/4" IN 3/4" CONDUIT. IF SWITCHES IS INCOMPATIBLE WITH 277V, REPLACE AS REQUIRED.
2	CONNECT EXISTING DUAL HEAD EMERGENCY EGRESS FIXTURE TO NEW LIGHTING CIRCUIT SERVING THE SAME AREA WITH 3/4" IN 3/4" CONDUIT. VERIFY EXISTING FIXTURE IS COMPATIBLE WITH 277V, REPLACE IF REQUIRED.
3	CONNECT EXISTING EXIT LIGHT FIXTURE TO NEW NL LIGHTING CIRCUIT SERVING THE SAME AREA WITH 3/4" IN 3/4" CONDUIT. VERIFY EXISTING FIXTURE IS COMPATIBLE WITH 277V, REPLACE IF REQUIRED.
4	SWITCHES TO BE CONNECTED TO GYMNASIUM OVERHEAD LIGHTING. SEE UPPER LEVEL ELECTRICAL LIGHTING PLAN, SHEET E202.



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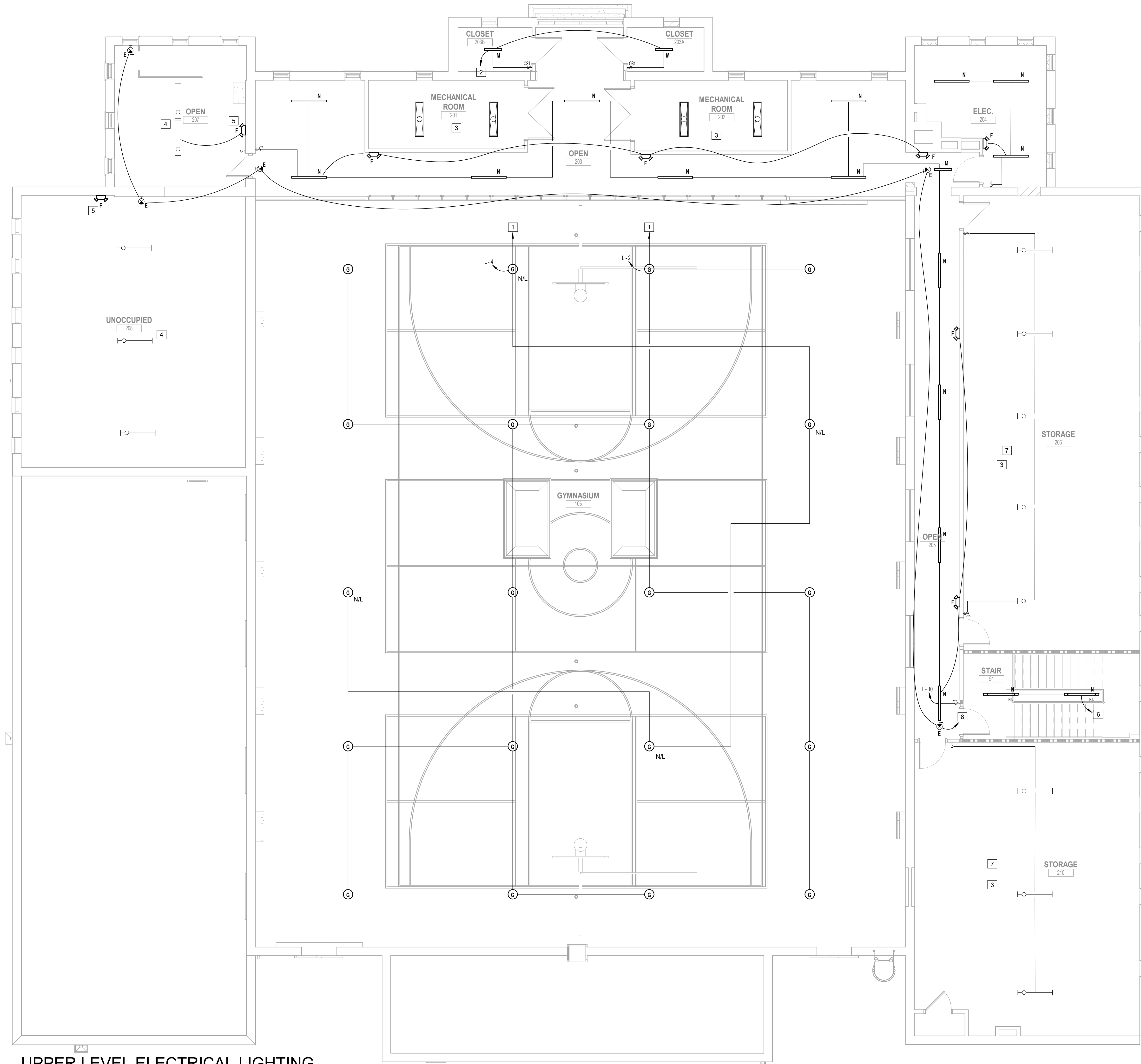
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UPPER LEVEL
ELECTRICAL LIGHTING
PLAN

E202



KEYED ELECTRICAL LIGHTING NOTES	
APPLY TO THIS SHEET ONLY	
1	GYMNASIUM HIGH BAY FIXTURES TO BE CONNECTED TO NEW SWITCHLESS SHOWN ON MAIN LEVEL ELECTRICAL LIGHTING PLAN, SHEET E201. FIXTURES DESIGNATED WITH NL ARE TO BE ON A SEPARATE SWITCHLEG TO GIVE OWNER OPTION TO HAVE ALL OVERHEAD LIGHT FIXTURES TURNED OFF, IF DESIRED.
2	NEW CLOSET LIGHT FIXTURES TO BE CONNECTED TO NEW 120V LIGHTING CIRCUIT POWERING THE EXISTING UPPER LEVEL LIGHTING (EAST SIDE) WITH 3/4" IN 3/4" CONDUIT - CIRCUIT R1-6.
3	EXISTING UPPER LEVEL LIGHTING (NORTH & EAST SIDES) TO FED FROM NEW PANEL, CIRCUIT R1-6.
4	EXISTING UPPER LEVEL LIGHTING (WEST SIDE) TO FED FROM NEW PANEL, CIRCUIT R2-6.
5	CONNECT NEW DUAL HEAD EMERGENCY EGRESS FIXTURE TO LIGHTING CIRCUIT SERVING THE SAME ROOM WITH 3/4" IN 3/4" CONDUIT.
6	STARWELL OVERHEAD LIGHTING TO BE CIRCUITED WITH MAIN LEVEL FIXTURES BELOW WITH 3/4" IN 3/4" CONDUIT. COORDINATE WITH MAIN LEVEL LIGHTING PLAN.
7	THIS ROOM - EXISTING LIGHT FIXTURES TO BE WIRED TOGETHER & TO NEW SWITCHLEG(S) IN NEW DIVIDED AREA AS SHOWN WITH 3/4" IN 3/4" CONDUIT.
8	CONNECT TO MAIN LEVEL NL / EGRESS LIGHTING CIRCUIT WITH 3/4" IN 3/4" CONDUIT.

UPPER LEVEL ELECTRICAL LIGHTING
PLAN
NOT TO SCALE

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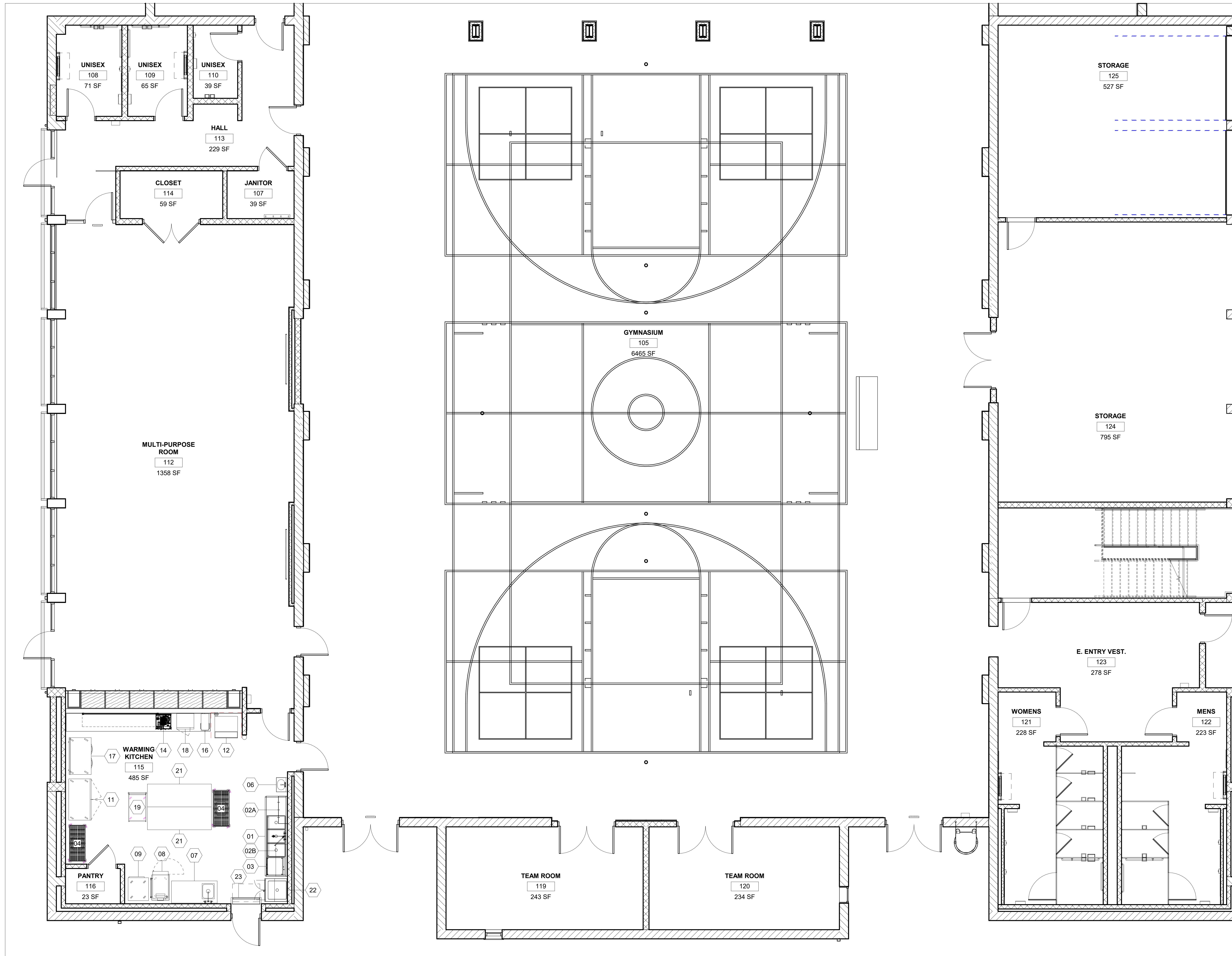
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FOODSERVICE
EQUIPMENT PLAN

FS101



1 FOOD SERVICE EQUIPMENT PLAN
1/4" = 1'-0"

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CONSULTANT

TOWN OF CANTON

ARMORY COMMUNITY CENTER RENOVATION

71 PENLAND ST., CANTON, NC 28716		
DATE	MARK	DESCRIPTION

ISSUE: CONSTRUCTION DOCUMENTS		
DATE:	11/12/2025	
PROJECT NO:	23029	
DRAWN BY:	AG	
CHECKED BY:	Checker	

FOOD SERVICE EQUIPMENT SCHEDULE

FS102

FOODSERVICE EQUIPMENT SCHEDULE																					
QTY	ITEM	DESCRIPTION	MANUFACTURER	MODEL	ITEM	ELECTRICAL							PLUMBING							REMARKS	
						ELECTRICAL A.F.F.	KW	HP	AMPS	VOLTS	PHASE	NEMA	HW SIZE	HW/A.F.F.	CW SIZE	CW/A.F.F.	IW	DRAIN TYPE	DW		DW A.F.F.
1	01	SINK, THREE COMPARTMENT	JOHN BOOS	43PB18244-2D24	01								1/2"	14"	1/2"	14"	2"	F.S.			PRE-RINSE FAUCET W/ADD ON FAUCET, (3) LEVER DRAINS
1	02A	STAINLESS STEEL POT RACKS	JOHN BOOS	PRW11A	02A																MOUNT 5'-4" A.F.F.
1	02B	SOLID SORTING SHELVES - WALL MOUNTED	JOHN BOOS	PB-SRW-42	02B																MOUNT 5'-4" A.F.F.
1	03	UNDERCOUNTER, DISHWASHER	HOBART	CUH-1	03	24"			24.2	208	1	6-30P	3/4"	14"	3/4"	14"	1"	F.S.			DRAIN WATER TEMPERING KIT
2	04	MOBILE SHELVING UNIT, POLYMER/WIRE, 4-TIER	METRO	Q456EG3	04																CASTERS
1	06	HAND SINK	EAGLE GROUP	HSA-10-F	06								1/2"	14"	1/2"	14"			2"		SIDE SPLASH, FAUCET
1	07	WORKTABLE WITH SINK	EAGLE GROUP	T3060STE-BS-MOD	07								1/2"	14"	1/2"	14"		F.S.			FAUCET, LEVER DRAIN
1	08	COMBI OVEN WITH VENTLESS HOOD	ALTO-SHAAM	CTX4-10EVH	08	50"			15.9	208	3	DIRECT			2@3/4"	48"		F.S.			WATER FILTER, EQUIPMENT STAND
1	09	PROOFER/HEATER	METRO	C517-CFC-4	09	24"			16.7	120	1	5-20P									CASTERS
1	10	SPARE NUMBER	-	-	10																
1	11	REACH-IN REFRIGERATOR, 2-SECTION	TRUE	T-49-HC	11	50"		1/2	5.4	120	1	5-15P									CASTERS
1	12	ICE MAKER, UNDERCOUNTER	MANITOWOC ICE	UDF0310A-161	12	24"			10.0	120	1	5-15P			3/8"	14"	1"	F.S.			WATER FILTER, BACKFLOW PREVENTION DEVICE
1	13	SPARE NUMBER	-	-	13																
1	14	POPCORN MAKER, COUNTERTOP	GOLD	2552	14	50"			11.5	120	1	5-15P									
1	15	SPARE NUMBER	-	-	15																
1	16	COFFEE/TEA BREWER	BY VENDOR	N.I.K.C.	16	50"			14.0	120	1	5-15P			1/2"	48"		F.S.			WATER FILTER
1	17	WORKTOP FREEZER, 2-SECTION	TRUE	TWT-48F-HC-SPEC1	17	24"		1/2	5.4	120	1	5-15P									CASTERS
1	18	MICROWAVE OVEN	WARING	WMO120	18	50"			8.7	208	1	C&P									
1	19	UTILITY CART	LAKESIDE MANUFACTURING	544	19																CASTERS
1	20	SPARE NUMBER	-	-	20																
2	21	WORKTABLE-ROLLED EDGE	EAGLE GROUP	T3084SE	21																UNDERSHELF, CASTERS
1	22	MOP SINK CABINET	JOHN BOOS	PBJC-303084-X	22								1/2"	42"	1/2"	42"			4"		HEAVY DUTY FAUCET, SERVICE FAUCET HOSE, (2) SHELF MOUNTED MOP HOLDERS
1	23	AIR CURTAIN	MARS AIR	LPN236-1UA-OB	23	ABV.			2.4	120	1	DIRECT									MICROSWITCH @ DOOR

ABBREVIATIONS	
ABV.	ABOVE
A.F.F.	ABOVE FINISHED FLOOR
CTR.	COUNTER MOUNTED
C.W.	COLD WATER
E.C.	ELECTRICAL CONTRACTOR
F.D.	FLOOR DRAIN
F.S.	FLOOR SINK
F.S.E.C.	FOOD SERVICE EQUIPMENT CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.W.	HOT WATER
I.W.	INDIRECT WASTE
M.C.	MECHANICAL CONTRACTOR
N.I.K.C.	NOT IN KITCHEN CONTRACT
S/S	STAINLESS STEEL
ST.	STUB
U.C.	UTILITY CHASE
W.	WASTE

ELECTRICAL LOADS ARE BASED ON MANUFACTURER'S INFORMATION. MINIMUM CIRCUIT AMPACITY AND OVERCURRENT PROTECTION TO BE DETERMINED BY CODE REQUIREMENTS AND/OR MANUFACTURER'S DIRECTIONS.

110° F. HOT WATER REQUIREMENTS		GPH
MOP SINK	-	5
HAND SINK	1 @ 5	5
PREP SINKS	1 @ 20	20
TOTAL		30

140° F. HOT WATER REQUIREMENTS		GPH
POT SINKS	3 @ 30	90
DISHMACHINE	-	20.2
PRE-RINSE	1 @ 35	35
TOTAL		145.2

7

6

5

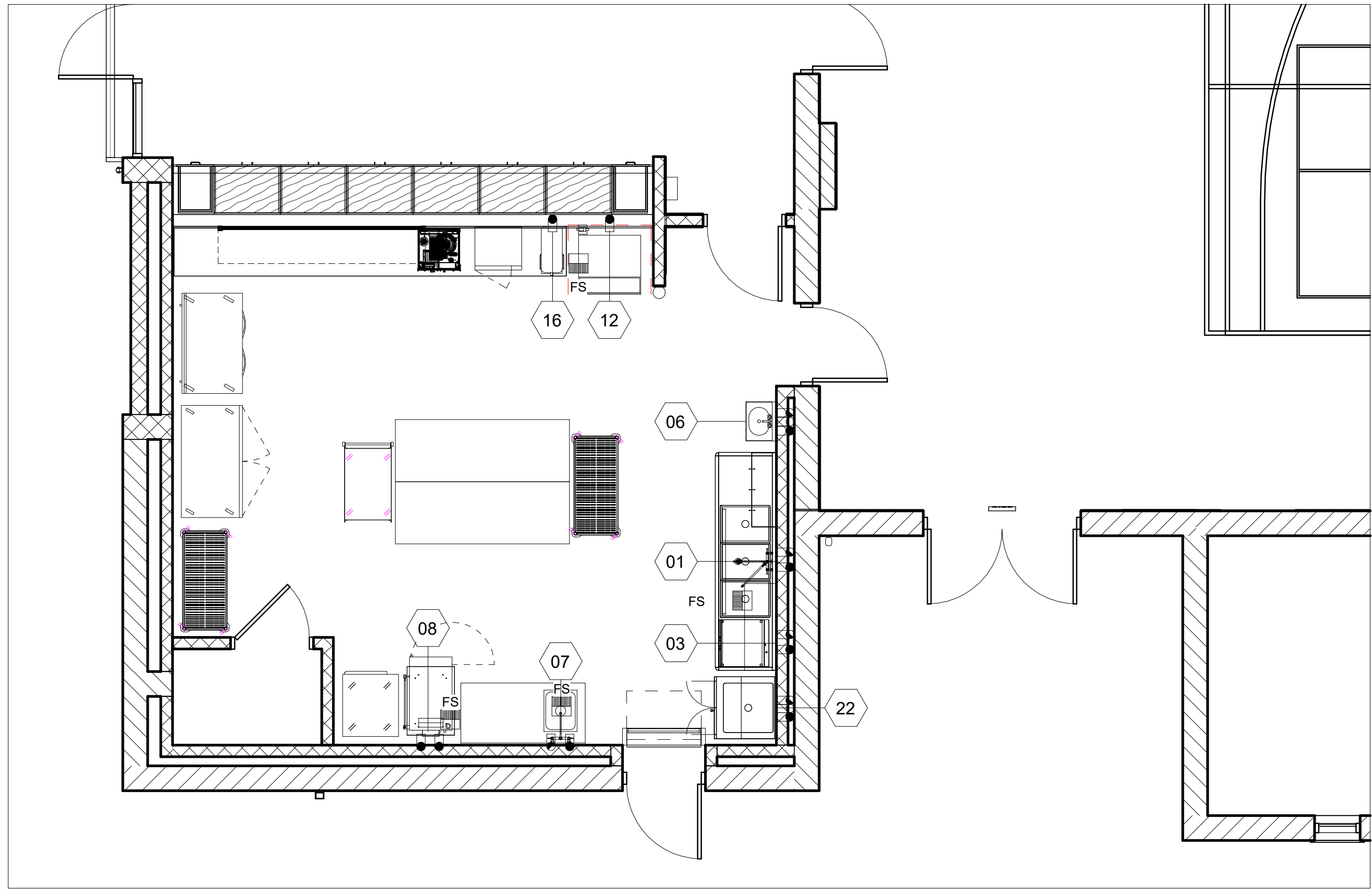
4

3

2

1

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1 FOOD SERVICE PLUMBING PLAN
1/4" = 1'-0"

MECHANICAL SYMBOLS	
	HOT WATER (HW)
	COLD WATER (CW)
	FLOOR DRAIN
	FLOOR SINK
	FLOOR SINK W/ HALF GRATE

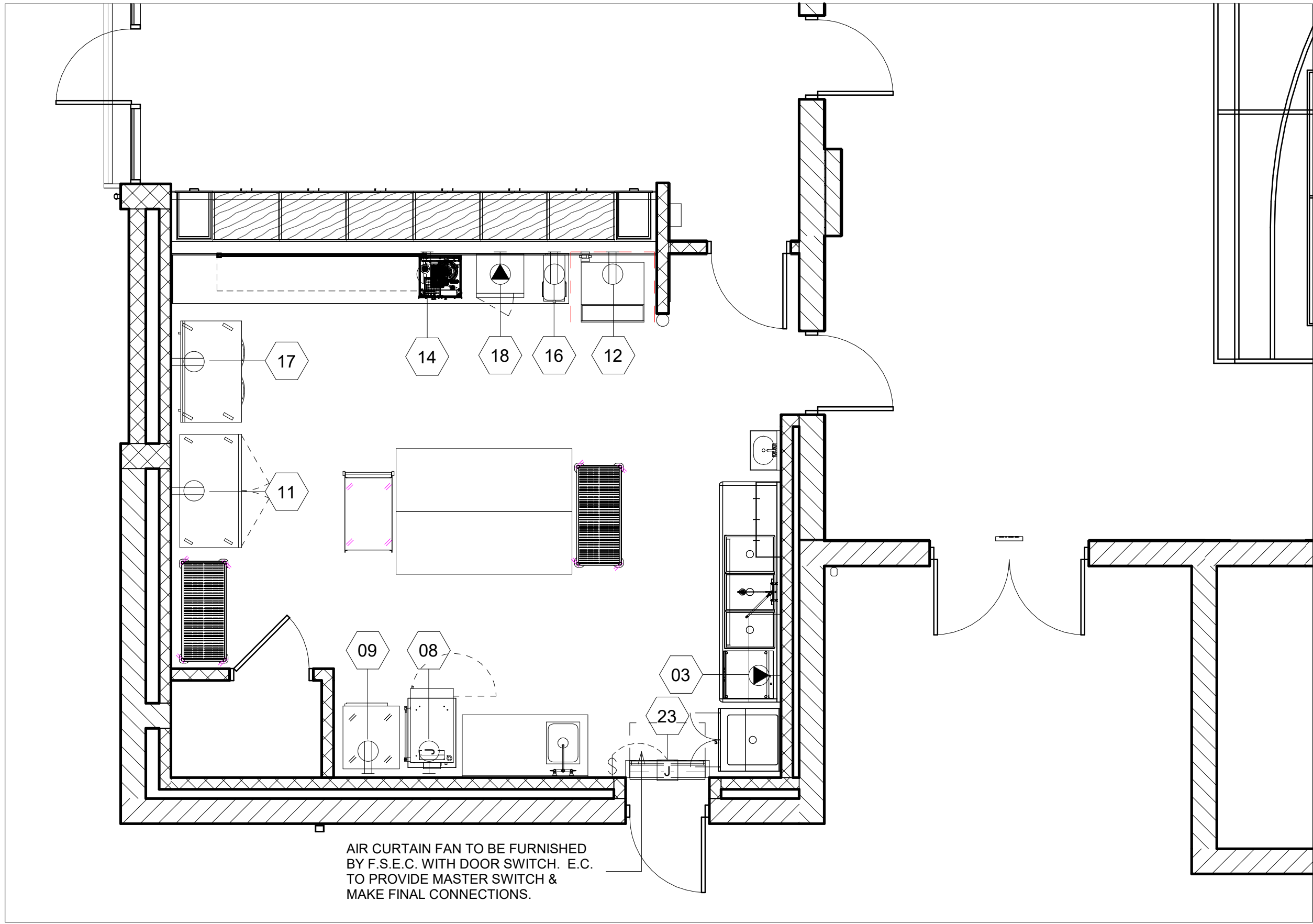
PLUMBING ROUGHING IN NOTES

THIS PLAN IS INTENDED TO SHOW UTILITY REQUIREMENTS AND APPROXIMATE ROUGHING-IN LOCATIONS ONLY. DO NOT USE FOR ACTUAL ROUGHING-IN. FOR FINAL ROUGH-IN LOCATIONS SEE DIMENSIONED PLANS PROVIDED BY FOOD SERVICE EQUIPMENT CONTRACTOR.

WHERE EXPOSED PIPES AND CONDUITS ARE NECESSARY, THEY SHOULD BE MOUNTED 1 TO 2 INCHES OFF THE WALL AND 6 INCHES OFF THE FLOOR TO ALLOW FOR CLEANING.

PLUMBING NOTES

PLUMBING TRIM SUCH AS FAUCETS AND SINK WASTES SHALL BE FURNISHED WITH EQUIPMENT BY FOOD SERVICE EQUIPMENT CONTRACTOR. PLUMBER TO PROVIDE SERVICE, STOP VALVES, P-TRAPS, ETC., AND MAKE FINAL CONNECTIONS.



2 FOOD SERVICE ELECTRICAL PLAN
1/4" = 1'-0"

ELECTRICAL SYMBOLS	
	J-BOX, FLUSH IN WALL
	J-BOX FROM ABOVE
	DUPLEX OUTLET
	CONVENIENCE OUTLET, UNASSIGNED
	SPECIAL OUTLET TO MATCH EQUIPMENT

ELECTRICAL ROUGHING IN NOTES

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WHERE EXPOSED PIPES AND CONDUITS ARE NECESSARY, THEY SHOULD BE MOUNTED 1 TO 2 INCHES OFF THE WALL AND 6 INCHES OFF THE FLOOR TO ALLOW FOR CLEANING.

ELECTRICAL NOTES

AIR CURTAIN FAN TO BE FURNISHED BY F.S.E.C. WITH DOOR SWITCH, E.C. TO PROVIDE MASTER SWITCH & MAKE FINAL CONNECTIONS.

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● Architecture

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FOOD SERVICE
PLUMBING & ELECTRICAL
PLANS

FS103