

# 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.

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S404	SECTIONS & DETAILS
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CRAIG  
GAULDEN  
DAVIS **PBK**

19 Washington Park  
Greenville, SC 29601  
Phone 864.242.0761  
Fax 864.501.9945  
Email cgd@cgdfarch.com

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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: AB / OW  
CHECKED BY: JDH

TITLE SHEET

T100



CONSULTANT

TOWN OF CANTON

ARMORY COMMUNITY CENTER RENOVATION

71 PENLAND ST. CANTON, NC 28716

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

LIFE SAFETY PLANS

LS101

LIFE SAFETY LEGEND

Room name USE 150 SF OLF Type=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) TYPE	FIRE EXTINGUISHER CABINET FEC(R) RECESSED FEC(S) SEMI RECESSED FEC(F) FLUSH MOUNTED FEB BRACKET MOUNTED
N TRUE NORTH	NORTH ARROW
[Blank]	NO WORK
[Hatched]	ALTERATION LEVEL 1
[Cross-hatched]	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, REFURBISHING THE RESTROOMS AND KITCHEN, NEW RESILIENT FINISHES, ADDED RECREATIONAL EQUIPMENT, AND NEW MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS. THE 5,600 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 ANS I 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: 5,600 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 STOPPINGS 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.

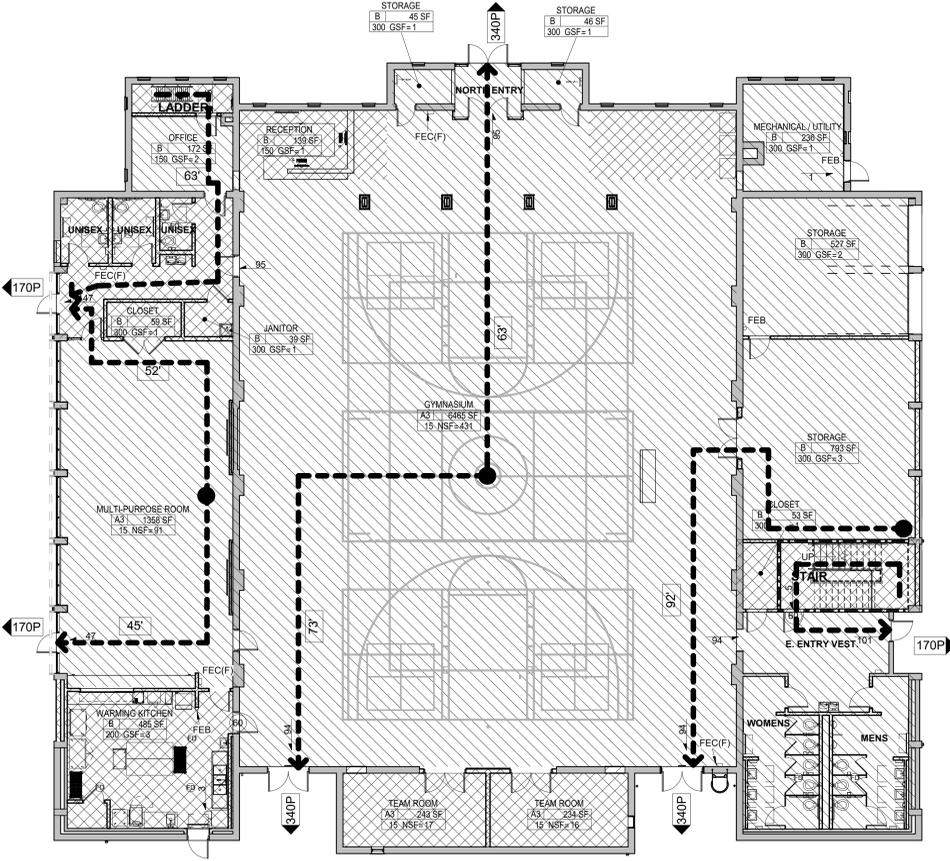
MECHANICAL INFORMATION:  
THE MECHANICAL SYSTEM WILL BE REPLACED IN ITS ENTIRETY EXCEPT WHERE DUCT CAN BE REUSED. SEE MECHANICAL DRAWINGS FOR SCOPE AND CODE REQUIREMENTS.

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.

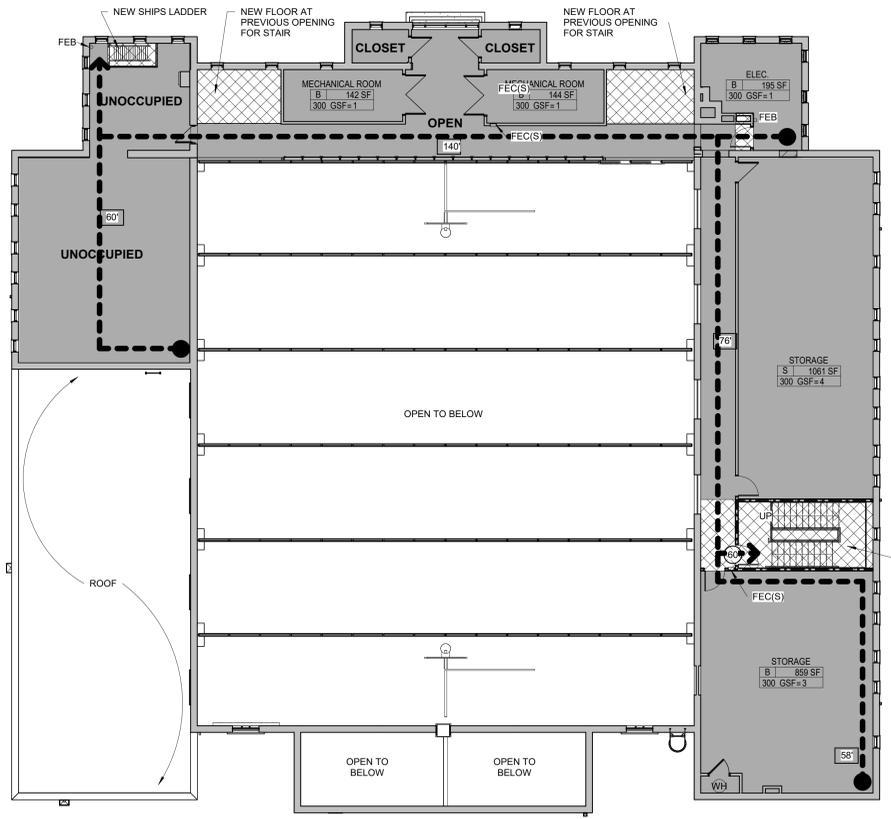
ELECTRICAL INFORMATION:  
THE ELECTRICAL SYSTEM WILL BE REPLACED IN ITS ENTIRETY. EXISTING CONDUIT AND BOXES WILL BE REUSED WHERE POSSIBLE. ALL NEW ELECTRICAL EQUIPMENT AND WIRING SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF NFPA 70. SEE ELECTRICAL DRAWINGS FOR SCOPE AND CODE REQUIREMENTS.

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.



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



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

Autodesk Docs://Canton Armory/Canton Armory Architectural.rvt  
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PROJECT ABBREVIATIONS LEGEND	
AB ANCHOR BOLT	GA GALV GALVANIZED
AC AIR CONDITIONING(ED)	GB (GB-) GEN GENERAL
ACS ACCESS	GBR GRAB GRAB BAR
ACST ACOUSTICAL	GBR GRAB GRAB BAR
ACSP (ACP-) ACOUSTICAL CEILING PANEL	GFRG GFRG GFRG
ACT (ACT-) ACOUSTICAL CEILING TILE	GL (GL-) GLASS
AD AREA DRAIN	GLB GLK GLASS BLOCK
ADA AMERICANS WITH DISABILITIES ACT	GLU LAM GLUE LAMINATED WOOD
ADH ADH ADH	GLP PLAS GYPSUM PLASTER
ADJ ABOVE FINISHED FLOOR	GR GRADE
AGRD AGRICULTURE	GT GREASE TRAP
AHR AHR AHR	GYP GYPSUM
ALT ALTERNATE	H HIGH
ALUM ALUMINUM	HB HOSE BIBB
(ALUM-) ALUMINUM	HC HOLLOW CORE
AND AND	HCP HANDICAPPED
ANN ANNUNCIATOR	HDW HARDWOOD
APPROX APPROXIMATE	HM HOLLOW METAL
ARCH ARCHITECTURAL	HO HOLD OPEN
ASPH ASPHALT	HORIZ HORIZONTAL
AUTO AUTOMATIC	HP HIGH POINT
AWP (AWP-) ACOUSTICAL WALL PANEL	HR HOUR
BB BACK TO BACK	HT HEIGHT
BB-1 BULLET BOARD	HTG HEATING
BB2 BASE BOARD	HTR HEATER
BD BOARD	HVAC HEATING, VENTILATION, AIR CONDITIONING
BE (BE-) BENCH	HW HYDRA
BITUM BITUMINOUS	INCAND INCANDESCENT
BLDG BUILDING	INCL (INCL-) INCLUDING
BLKG BLOCKING	INSUL INSULATION
BM BEAM	INSUL- (INSUL-) INSULATION
BMK BENCHMARK	INT INTERIOR
BO BOTTOM	INTERM INTERMEDIATE
BO1 BOTTOM OF	INTV INVERT
BR (BR-) BRICK	JAN JANITOR
BRG BEARING	JAN CLO JANITOR'S CLOSET
BRZ BRONZE	JOINT JOINT
BSMT BASEMENT	KD (KNOCKED) DOWN
BUR BULLTIP ROOFING	KO KNOCK OUT
CAB CABINET	KIT KITCHEN
CATCH CATCH BASIN	KPL (KPL-) KICK PLATE
CEM CEMENT	L LONG LENGTH
CG (CG-) CORNER GUARD	LAM LAMINATE(D)
CH (CH-) COAT HOOK	LAU LAUNDRY
CIP CAST IRON	LAV LAVATORY
CI CAST-IN-PLACE	LB (LB-) POUND(S)
CIRC CIRCULATION	LF LINEAR FOOT, (FEET)
CJ CONTROL JOINT	LH LEFT HAND
CL CENTER LINE	LV LOAD
CLD CENTER LINE	LKR (LKR-) LOCKER
CLO CLOSET	LLH LONG LEG HORIZONTAL
CM CENTIMETER	LLV LONG LEG VERTICAL
CMU CONCRETE MASONRY UNIT	LN LONG
CLEANOUT CLEANOUT	LP LONGITUDINAL
CONC CONCRETE	LTG LOW POINT LIGHT
CONF CONFERENCE	LVL LEVEL
CONN CONNECTION	LWC LIGHT WEIGHT CONCRETE
CONSTR CONSTRUCTION	m METER
CONT CONTINUOUS	MACH MACHINE
CONTR CONTRACTOR	MAINT MAINTENANCE
COORD COORDINATE	MAS MASONRY
CORR CORROR	MATL MATERIAL
CORR CORROR	MAX MAXIMUM
CPT (CPT-) COUNTERSUNK	MCB METAL CORNER BEAD
CSK CT (CT-) CENTER TILE	MDO MEDIUM DENSITY FIBERBOARD
CTR CENTER	MECH MECHANICAL
CW CUBIC	MEMB MEMBRANE
CU COLD WATER	MEZZ MEZZANINE
CVC CLOSED CIRCUIT TELEVISION	MEP MECHANICAL, ELECTRICAL, PLUMBING & FIRE PROTECTION
d PENNY (NAIL)	MFR MANUFACTURER
DBL DEEP DEPTH	MH MARKLE
DCT (DCT-) DIAPER CHANGING TABLE	MIN MINIMUM
DEG DEGREE	MIR (MIRR-) MIRROR
DEMO DEMOLISH, DEMOLITION	MISC MISCELLANEOUS
DEPT DEPARTMENT	MKR BD MARKER BOARD
DET DETAIL	mm MILLIMETER
DF (DF-) DRINKING FOUNTAIN	MO MOUNTED
DIAM DIAMETER	MTD MOUNTING
DIA DIAGONAL	MTL METAL
DIFF DIFFUSER	MULL MULLION
DIM DIMENSION	MVBL MOVABLE
DISP DISPENSER	N NORTH
DN DOWN	NC NOT IN CONTRACT
DRN DRAINAGE	NO NUMBER
DRN DRAINAGE	NOM NOMINAL
DWG DRAWING	NTS NOT TO SCALE
DWV DRAINAGE, WASTE AND VENT	O OUT TO OUT
E EAST	O/C OVERHEAD
EACH EACH	OC ON CENTER
EFS EXTERIOR INSULATION AND FINISH SYSTEM	OD OUTSIDE DIAMETER
EJ EXPANSION JOINT	OF/CI OWNER FURNISHED, CONTRACTOR INSTALLED
EL ELEVATION	OF/OI OWNER FURNISHED, OWNER INSTALLED
ELAST ELASTOMERIC	OFD OVERFLOW DRAIN
ELEC ELECTRICAL	OFF OFFICE
ELEV ELEVATION	OH OVERHEAD
EMER EMERGENCY	OPH OPPOSITE HAND
ENCL ENCLOSURE	OPNG OPENING
ENGR ENGINEER	OPP OPPOSITE
ENTR ENTRANCE	PA PUBLIC ADDRESS
EO ELECTRIC OUTLET	PBD PARTICLE BOARD
EOS EDGE OF SLAB	PCC (PCC-) PRE-CAST CONCRETE
EP ELECTRICAL PANEL	PERF PERFORATED
EQUIP EQUIPMENT	PERP PERPENDICULAR
ES EMERGENCY SHOWER	PGBD PEG BOARD
ETC ETC	PLAM PLASTIC LAMINATE
EW EACH WAY	PLAS PLASTER
EWC ELECTRIC WATER COOLER	PLYWOOD PLYWOOD
EXC EXCAVATION, EXCAVATE	PNT (PNT-) PAINT
EXH EXHAUST	POL POLISHED
EXIST EXISTING	PR PAIR
EXP EXPANSION	PRFAB (PRFAB-) PREFABRICATED(D)
EXT EXTERIOR, EXTERNAL	PRKG PARKING
F FACE OF	PROJ (PROJ) PROJECT
F/F FACE TO FACE	PROJ (PROJ) SCREEN
FA FIRE ALARM	PROP PROPERTY
FAAP FIRE ALARM ANNUNCIATOR PANEL	PSF POUNDS PER SQUARE FOOT
FAB (FAB-) FABRIC	PSH (PSH-) PURSE SHELF
FABR FABRICATED(D)	PSI POUNDS PER SQUARE INCH
FACP FIRE ALARM CONTROL PANEL	PT POINT
FC (FC-) FIRE CABINET	PTD PARTITION
FDN FOUNDATION	PTD- PARTITION
FDTN FIRE EXTINGUISHER	PVC POLYVINYL CHLORIDE
FEC FIRE EXTINGUISHER CABINET	PVG PAVING
FH FIRE HYDRANT	QT (QT-) QUARRY TILE
FHC FIRE HOSE CABINET	QTY QUANTITY
FHW FIRE HOSE VALVE CABINET	
FHR FIRE HOSE REEL	
FN FINISHED	
FN FLR EL FINISHED FLOOR ELEVATION	
FXT FIXTURE	
FLASH FLASHING	
FLXBL FLEXIBLE	
FLR FLOOR	
FLUOR FLUORESCENT	
FO FINISHED OPENING	
FP FIRE PROTECTION	
FRTW FIRE RETARDANT TREATED WOOD	
FT FOOT (FEET)	
FTG FOOTING	
FTR FINED TUBE RADIATION	
FURN FURNISH, FURNITURE	
FURNG FURRING	
FUT FUTURE	

SYMBOLS LEGEND	
SHEET NUMBER	
A213	
ROOM NAMES AND NUMBERS	
Room name ROOM NAME	
Room number ROOM NUMBER	
NORTH ARROW	
VERTICAL ELEVATION TARGET	
SPOT ELEVATION	
DRAWING TITLE	
View Name	
1/8" = 1'-0"	
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	

FLOOR PLAN LEGEND	
COLUMN GRID	
NORTH ARROW	
FEMA NOTE	
ROOM TAG	
SECTION / ELEVATION CALLOUT	
ELEVATION TARGET	
WINDOW TAG, SEE WINDOW SCHEDULE FOR ADDITIONAL INFO	
CENTER LINE	
NEW DOOR WITH DOOR TAG	
EXISTING DOOR	
FIRE EXTINGUISHER CABINET	
HIGH & LOW ELECTRIC WATER COOLER W/ BOTTLE FILLER	
WALL TYPES LEGEND	
FACING	
STRUCTURE	
WALL MODIFIER	
CASEWORK LEGEND	
DEPTH (INCHES)	
HEIGHT (INCHES)	
WIDTH (INCHES)	
MILLWORK TYPE	
NOTES	
WALL LEGEND	
EXISTING WALL	
CONCRETE	
CONCRETE MASONRY	
METAL STUD WALL WITH GYPSUM WALL BOARD	
1 HOUR RATED	
2 HOUR RATED	
3 HOUR RATED	
TOILET ACCESSORY LEGEND	
PAPER TOWEL DISPENSER	
TOILET TISSUE DISPENSER	
GRAB BAR	
GRAB BAR (VERTICAL MOUNT)	
MIRROR	
COAT HOOK	
NAPKIN DISPENSER	
SANITARY NAPKIN DISPOSAL UNIT	
AUTOMATIC SOAP DISPENSER	
COMBINATION PAPER TOWEL DISPENSER & WASTE RECEPTACLE	
ELECTRIC WATER COOLER	
DIAPER CHANGING STATION (FOLDING WALL MOUNTED UNIT)	
WALL MOUNTED STAINLESS STEEL BATHROOM SHELF (18" x 4" x 3")	
FLOOR DRAIN, SEE "T" 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	
HOLLOW METAL	
SOLID CORE WOOD	
TEMPERED	
PAIR	
ALUMINUM	
DEPLOYABLE FLOOD GATE, SEE SPECS	

PROJECT NOTES	
<b>CIRCULATION</b>	
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.	
<b>COORDINATION</b>	
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. WALLS SHALL BE REPAIRED TO THE ORIGINAL CONDITION.	
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, TOILET PARTITIONS, WALL MOUNTED LIGHT FIXTURES, BENCHES, COAT 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-SLOTS, 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 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. PREPARE 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 SPECIFIC 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.	
<b>DIMENSIONING</b>	
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 DETAIL. 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.	
<b>ENVELOPE</b>	
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.	
<b>FINISHES</b>	
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 INDICATED 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.	
<b>GLAZING</b>	
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.	
<b>MISCELLANEOUS</b>	
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.	
<b>STRUCTURAL</b>	
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.	
<b>WALLS</b>	
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 EVERY 10' 0" WITH 3" HIGH STENCILED LETTERING WITH WORDING SUCH AS "2-HOUR RATED FIRE BARRIER, PROTECT ALL OPENINGS" OR VERBIAGE APPROVED BY THE LOCAL BUILDING OFFICIAL OR 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 5/8" 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 WALL 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 OPENING 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.	



19 Washington Park  
Greenville, SC 29601  
Phone 864.242.0761  
Fax 864.501.9945  
Email cgd@gdprk.com

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CONSULTANT

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# TOWN OF CANTON

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# 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  
DRAWN BY: JH  
CHECKED BY: JDH

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GENERAL NOTES AND LEGENDS

# G101





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**TOWN OF CANTON**

**ARMORY COMMUNITY CENTER RENOVATION**

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**MAIN LEVEL DEMOLITION PLAN**

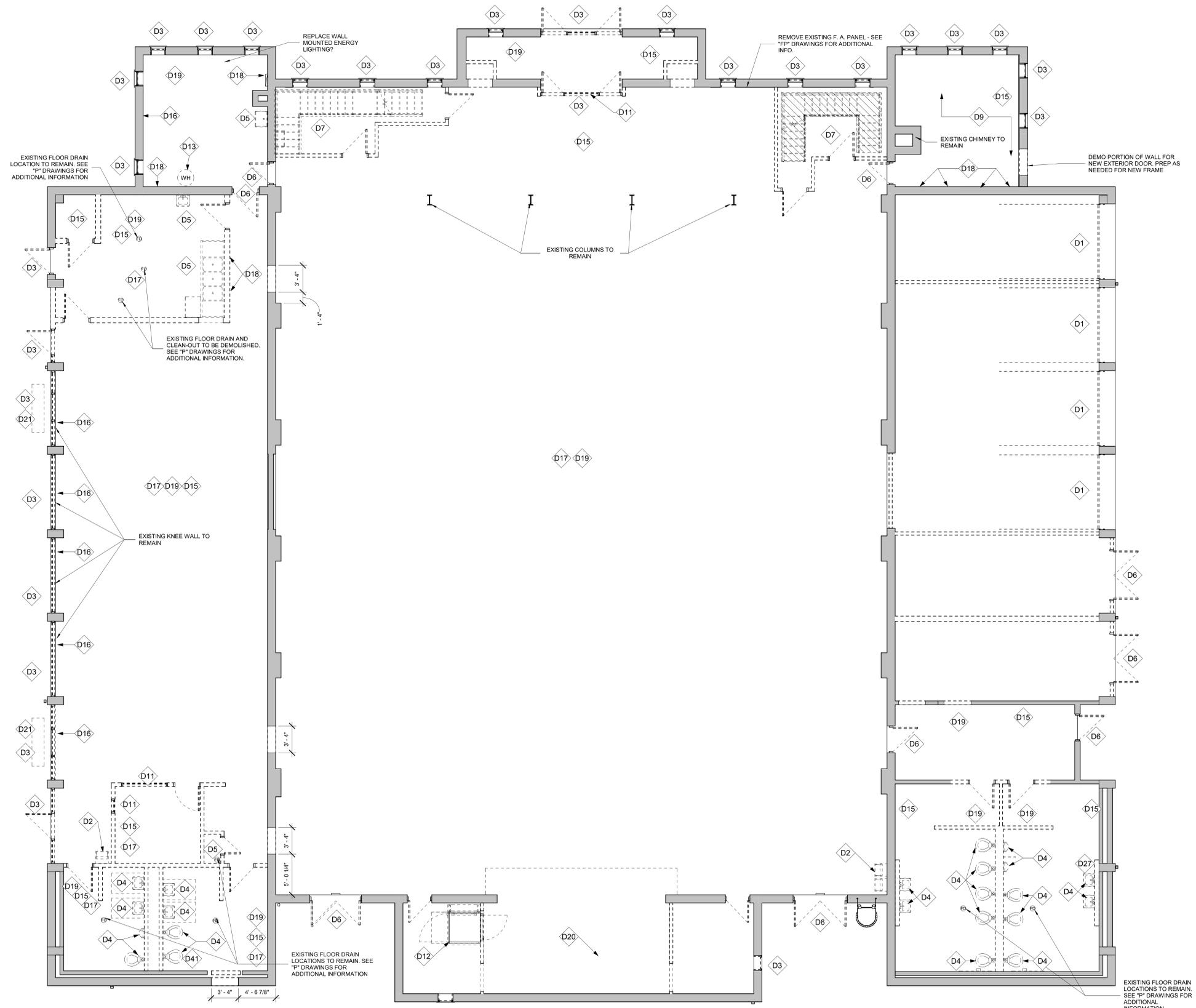
**D101**

**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"

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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

**UPPER LEVEL DEMOLITION PLAN**

**D102**

**DEMOLITION LEGEND**

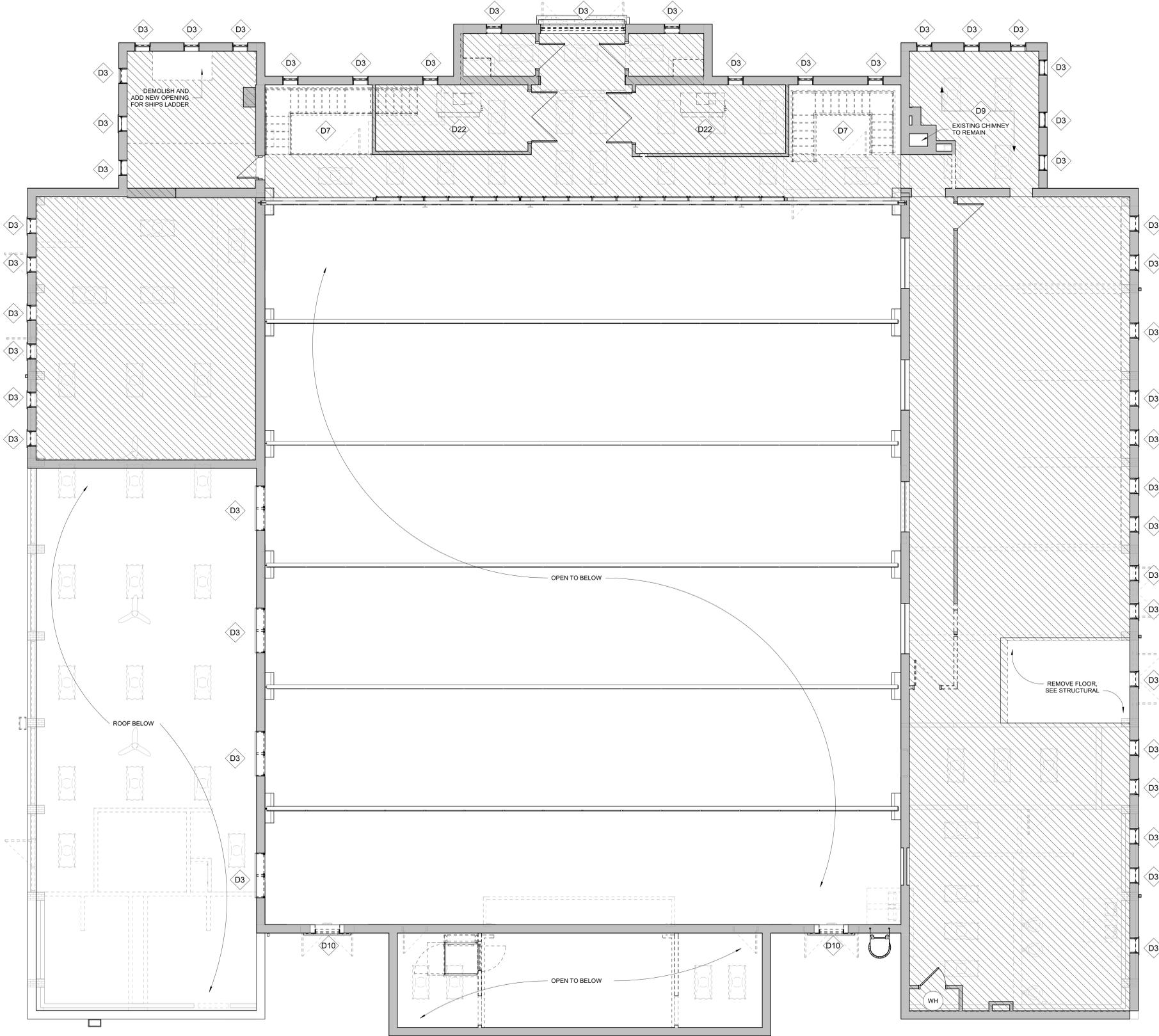
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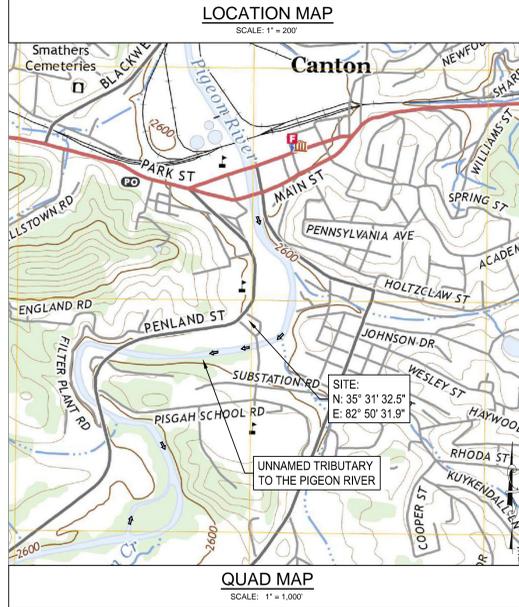
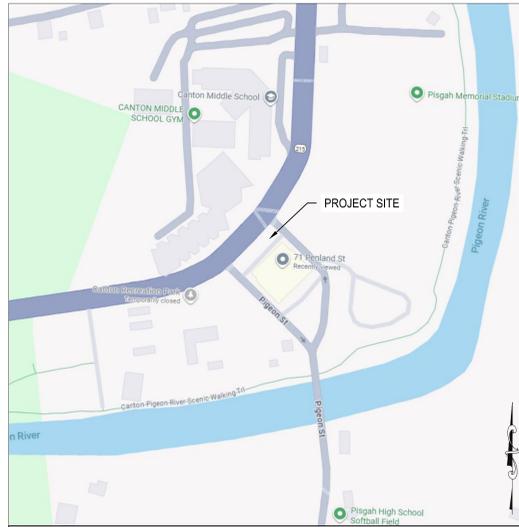
**1 UPPER LEVEL DEMOLITION PLAN**  
3/16" = 1'-0"

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# 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	

### CIVIL ABBREVIATIONS:

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

### 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.

### 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 SCDOT 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.

### 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 CLOSUREOUT:
  - CONTRACTOR SHALL SCHEDULE WORK AND ACCOUNT FOR TIME IN THE SCHEDULE FOR "CLOSUREOUT" 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 CLOSUREOUT. 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.

F

CRAIG GAULDEN  
DAVIS **PK**

19 Washington Park  
Greenville, SC 29601  
Phone 864.242.0761  
Fax 864.501.9945  
E-mail cgd@gdaroh.com

E

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CONSULTANT

D



C

TOWN OF  
CANTON

B

ARMORY  
COMMUNITY  
CENTER  
RENOVATION

A

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 COVER PAGE

C001



**UTILITY NOTES:**

- SEE SHEET C001 FOR CIVIL NOTES AND ABBREVIATIONS.
- 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.
- FIRE SERVICE LINE AND ALL ASSOCIATED FIRE SERVICE ITEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH NFPA 24 REQUIREMENTS.
- BACKFLOW PREVENTERS SHALL BE LOCATED INSIDE THE BUILDING. SEE FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
- UTILITY CONTRACTOR SHALL PROVIDE WATER RECORD DRAWINGS AND EASEMENT PLATS IN ACCORDANCE WITH UTILITY PROVIDER'S REQUIREMENTS.
- ALL WATER CONSTRUCTION SHALL BE IAW TOWN OF CANTON REQUIREMENTS.

**KEYNOTES:**

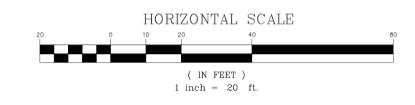
- INSTALL FIRE SPRINKLER SERVICE LINE IAW DETAIL F/C640. STUB-UP INSIDE BUILDING 12" ABOVE FFE WITH BLIND FLANGE. COORDINATE LOCATION AND ELEVATION WITH ARCHITECTURAL DRAWINGS AND FIRE PROTECTION DRAWINGS. FLUSH FIRE LINE IAW FIRE PROTECTION SPECIFICATIONS AND COORDINATE FLUSHING WITH FIRE PROTECTION ENGINEER AND GENERAL CONTRACTOR. PROVIDE ALL MATERIALS, INSTALLATION, TESTING, AND CERTIFICATIONS IAW NFPA REQUIREMENTS.
- CONNECT TO EXISTING WATER LINE WITH NEW TAPPING SLEEVE AND VALVE IAW DETAIL G/C640. COORDINATE ALL WORK WITH THE TOWN OF CANTON.
- REMOVE AND REPAIR EXISTING ASPHALT PAVEMENT, CONCRETE SIDEWALK AND CURBING IAW DETAILS A/C641, B/C641 AND C/C641 AS NECESSARY TO INSTALL NEW WATER IMPROVEMENTS.
- INSTALL NEW 6"X6" TEE.

**CIVIL LEGEND - WATER**

- FIRE HYDRANT ASSEMBLY - INSTALL IAW DETAIL A/C640.
- GATE VALVE (MATCH LINE SIZE) - INSTALL IAW DETAIL B/C640.
- POST INDICATOR VALVE (MATCH LINE SIZE) - INSTALL IAW DETAIL H/C640.
- WALL MOUNTED FIRE DEPARTMENT CONNECTION - SEE FIRE PROTECTION DRAWINGS.
- 6" DIP FIRE SERVICE - INSTALL IAW DETAILS C/C640, D/C640 AND E/C640.
- 1" PVC SCH40 GRAY CONDUIT FOR FIRE PROTECTION TAMPER SWITCH - INSTALL CONDUIT FROM BACKFLOW PREVENTER TO BUILDING.

**CIVIL LEGEND - EXISTING CONDITIONS**

- WATER LINE W/ VALVE
- WATER SERVICE
- SANITARY SEWER PIPE
- SANITARY SEWER - FORCE MAIN
- SANITARY SEWER SERVICE
- STORM DRAIN
- UNDERDRAIN PIPE
- ROOF DRAIN PIPE
- FENCE
- POWER LINE (OVERHEAD)
- POWER LINE (UNDERGROUND)
- TELEPHONE LINE (OVERHEAD)
- TELEPHONE LINE (UNDERGROUND)
- GAS LINE
- FIBER OPTIC LINE
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- CATCH BASIN
- DROP INLET
- HOODED CURB INLET
- CURB INLET
- WATER METER
- FIRE HYDRANT
- ELECTRICAL TRANSFORMER
- POWER POLE
- LIGHT POLE
- CONTOUR
- EXISTING TREE
- PROPERTY LINE
- LIMITS OF DISTURBANCE



F

E

D

C

B

A

**CRAIG GAULDEN DAVIS PBK**

19 Washington Park  
Greenville, SC 29601  
Phone 864.242.0761  
Fax 864.501.9945  
Email cgd@cgdarch.com

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CONSULTANT

**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

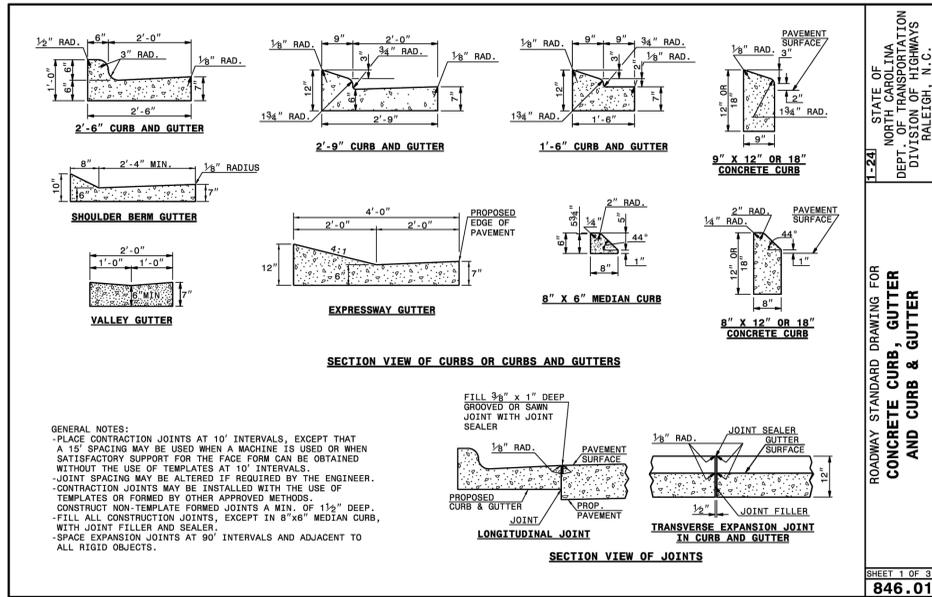
DATE	MARK	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	11/12/2025
PROJECT NO:	25374
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SITE UTILITY PLAN

**C400**





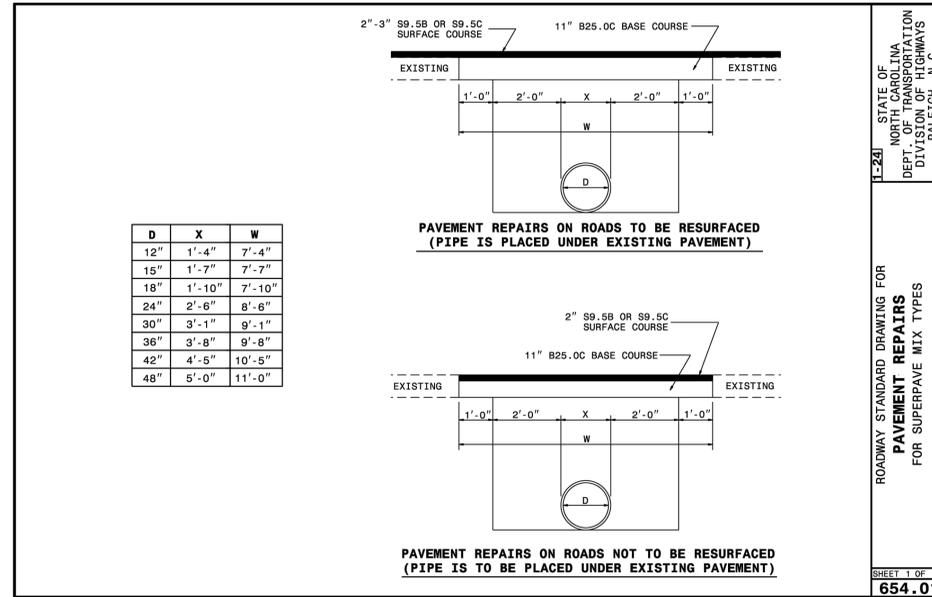
**A CURB AND GUTTER DETAIL**

STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR  
**CONCRETE CURB, GUTTER AND CURB & GUTTER**

1-221

SHEET 1 OF 3  
**846.01**



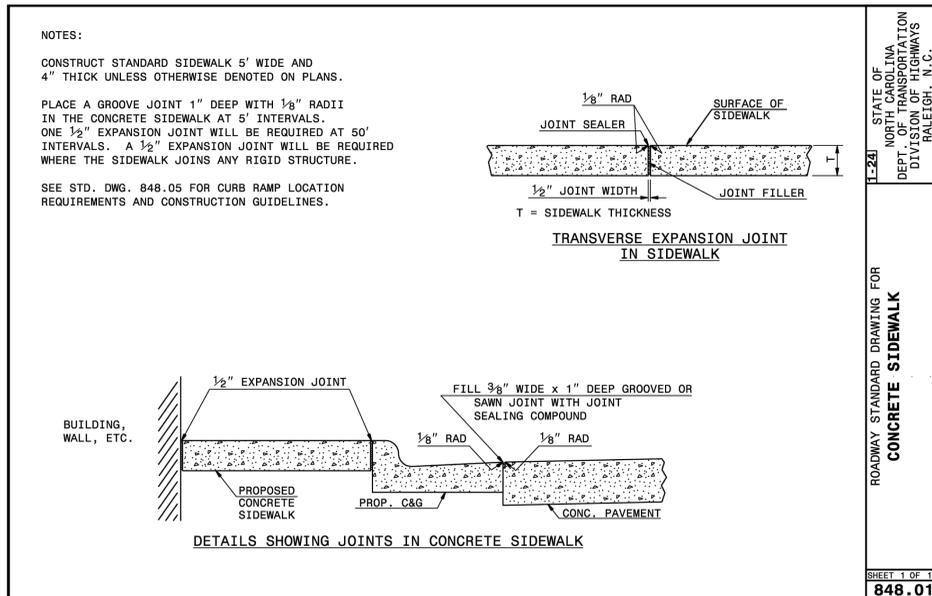
**C OPEN CUT PAVEMENT REPAIR DETAIL**  
 N.T.S.

STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR  
**PAVEMENT REPAIRS FOR SUPERPAVE MIX TYPES**

1-221

SHEET 1 OF 1  
**654.01**



**B CONCRETE SIDEWALK DETAIL**

STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR  
**CONCRETE SIDEWALK**

1-221

SHEET 1 OF 1  
**848.01**

**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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CONSULTANT

**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**

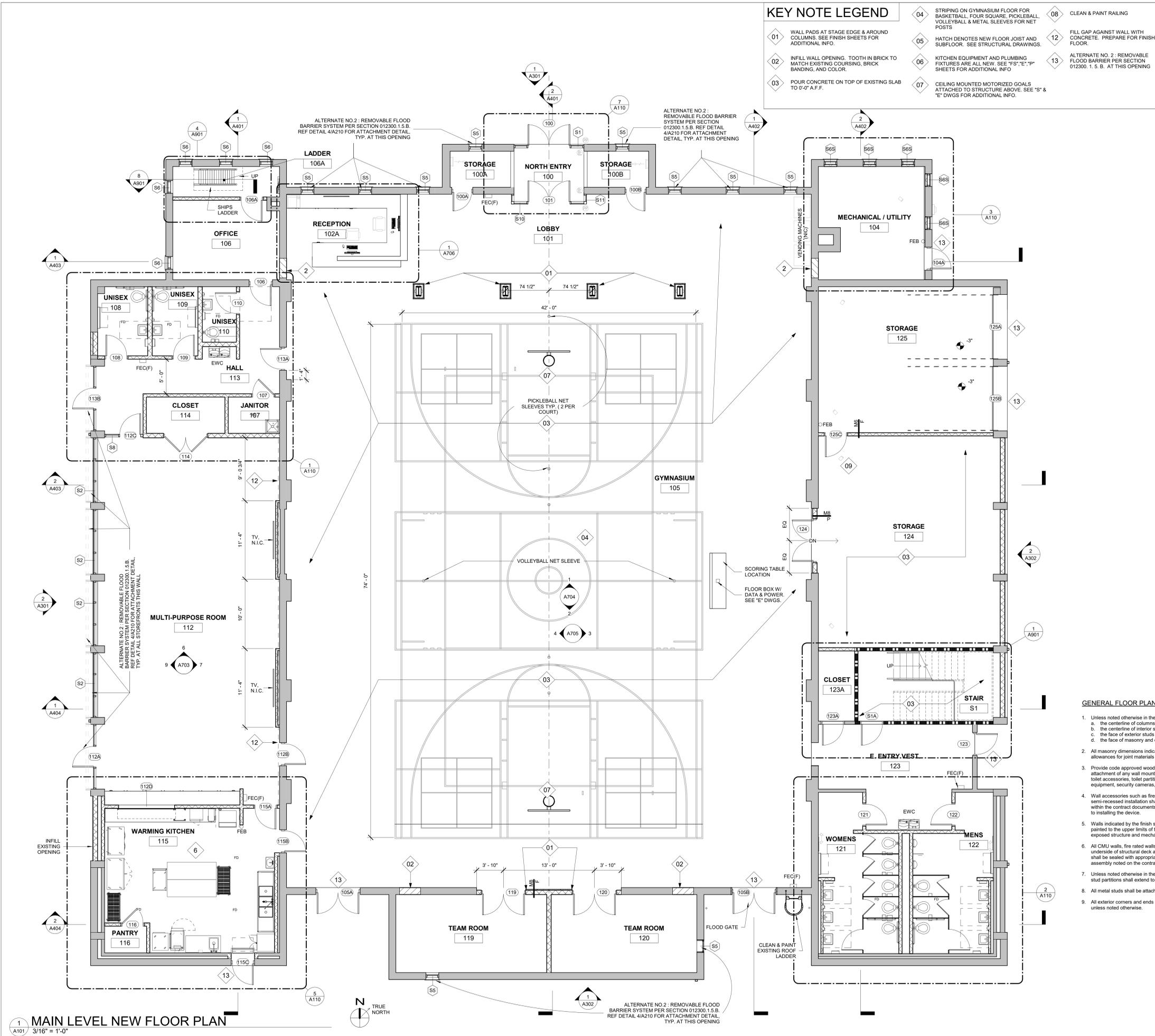
71 PENLAND ST. CANTON, NC 28716

DATE	MARK	DESCRIPTION

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

CIVIL DETAILS - UTILITY

**C641**



1 A101 3/16" = 1'-0"  
**MAIN LEVEL NEW FLOOR PLAN**

**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 SYSTEM PER SECTION 012300.1.5.B. AT THIS OPENING

**FLOOR PLAN LEGEND**

- 0 COLUMN GRID
- N TRUE NORTH
- F, "x" FEMA NOTE
- Room name ROOM TAG
- SECTION / ELEVATION CALLOUT
- Name ELEVATION TARGET
- 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
- EWG 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 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**

- 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, auto-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.

**CRAIG GAULDEN DAVIS PBK**

19 Washington Park  
 Greenville, SC 29601  
 Phone 864.242.0761  
 Fax 864.501.9945  
 E-mail cgd@gdarch.com

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**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**

Autodesk Docs/Canton Armory Architectural.rvt  
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**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:	AB
CHECKED BY:	JDH

UPPER LEVEL NEW FLOOR PLAN

**A102**

**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.
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- 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
- TRUE NORTH
- F, "x" FEMA NOTE
- Room name ROOM TAG
- SECTION / ELEVATION CALLOUT
- Name ELEVATION TARGET
- WINDOW TAG. SEE WINDOW SCHEDULE FOR ADDITIONAL INFO.
- 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

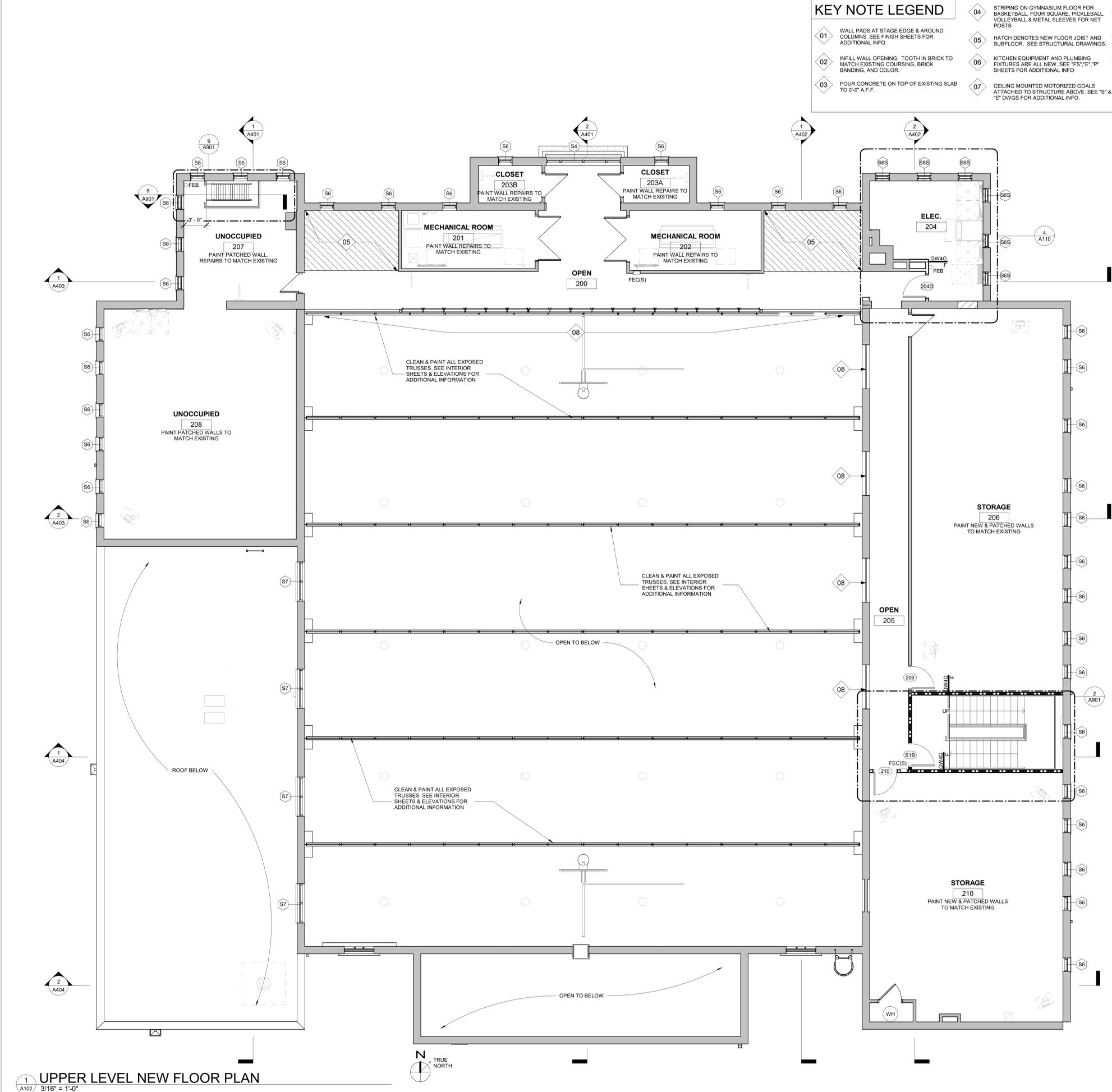
- WALL LEGEND NOTES:**
- INTERIOR WALLS SHALL BE TYPE M6F UNLESS NOTED OTHERWISE.
  - PROVIDE J-MOLD WITH CAULK AND BACKER ROD JOINT WHERE GWB ABUTS DISSIMILAR MATERIALS SUCH AS CMU AND GWB.
  - OUTSIDE CORNER OF CMU WALLS SHALL BE BULLNOSED UNLESS NOTED OTHERWISE.

**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 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**

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



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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

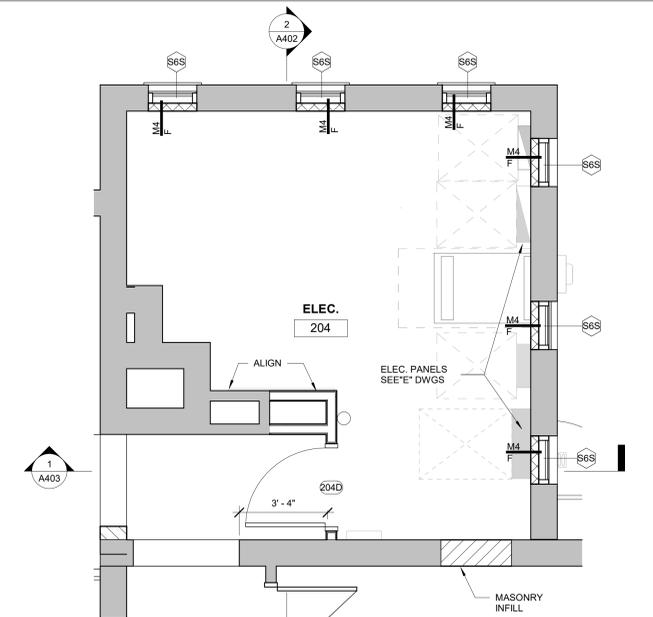
PROJECT NO: 23029

DRAWN BY: AJB

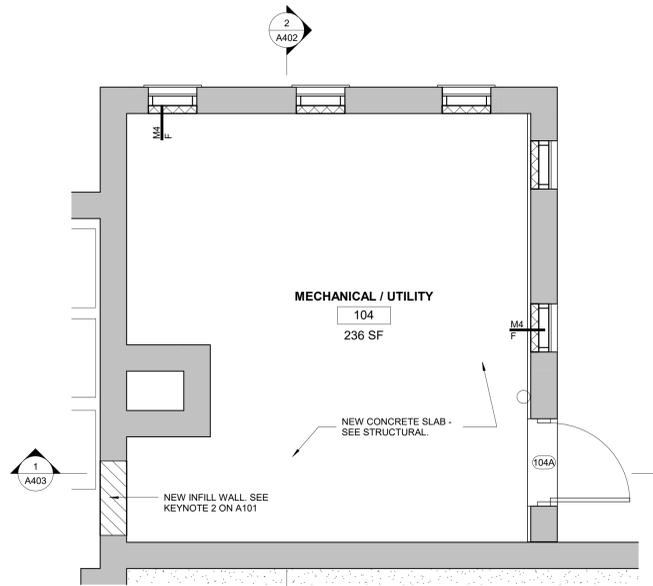
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**ENLARGED FLOOR PLANS**

**A110**

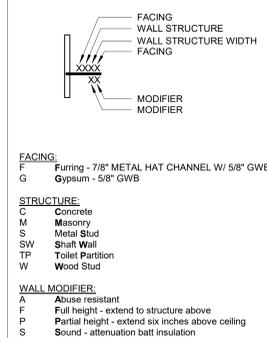


**ENLARGED PLAN - UPPER LEVEL ELEC. ROOM**  
A110 3/8" = 1'-0"



**ENLARGED PLAN - MECHANICAL ROOM**  
A110 3/8" = 1'-0"

**WALL TYPES LEGEND**



**TOILET ACCESSORY LEGEND**

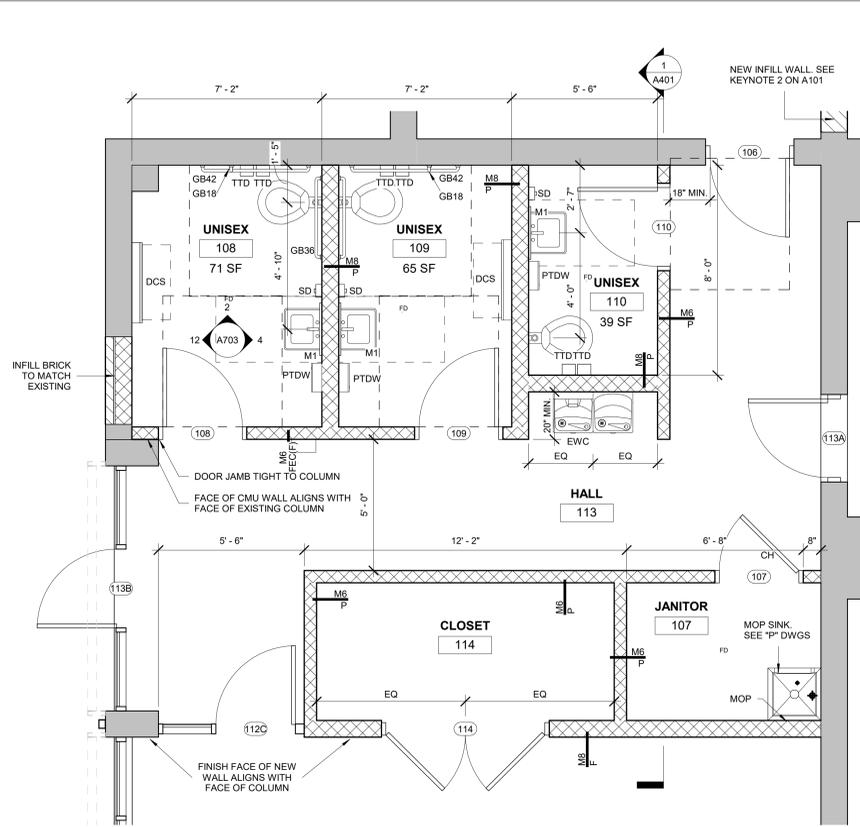
- PTD PAPER TOWEL DISPENSER
- TTD TOILET TISSUE DISPENSER
- GB42 42" GRAB BAR
- GB36 36" GRAB BAR
- GB18 18" GRAB BAR (VERTICAL MOUNT)
- M1 24" x 36" MIRROR
- M2 24" x 48" MIRROR
- CH COAT HOOK
- MOP MOP RACK
- SND SANITARY NAPKIN DISPOSAL UNIT
- SD AUTOMATIC SOAP DISPENSER
- PTDW COMBINATION PAPER TOWEL 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**

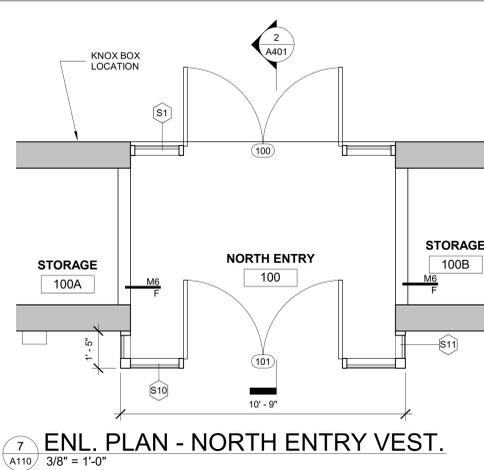
- GC SHALL FURNISH AND INSTALL 2x4 WOOD BLOCKING AS REQUIRED TO SECURELY FASTEN ALL TOILET ACCESSORIES.

**TOILET NOTES**

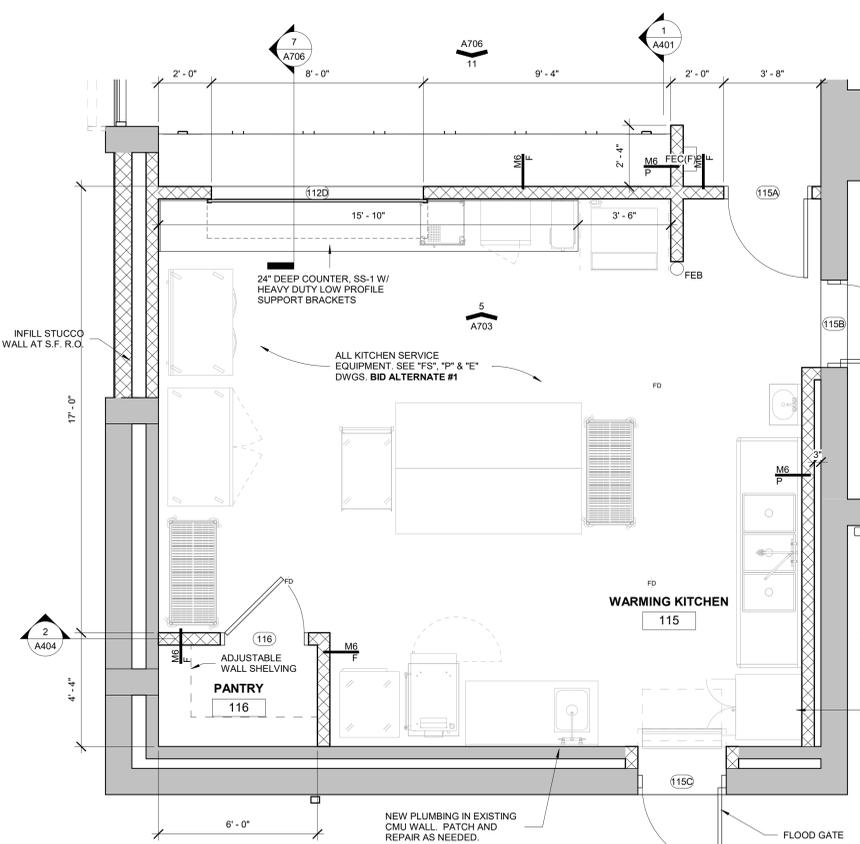
- OUTSIDE CORNER OF CMU WALLS SHALL BE BULLNOSED UNLESS NOTED OTHERWISE.



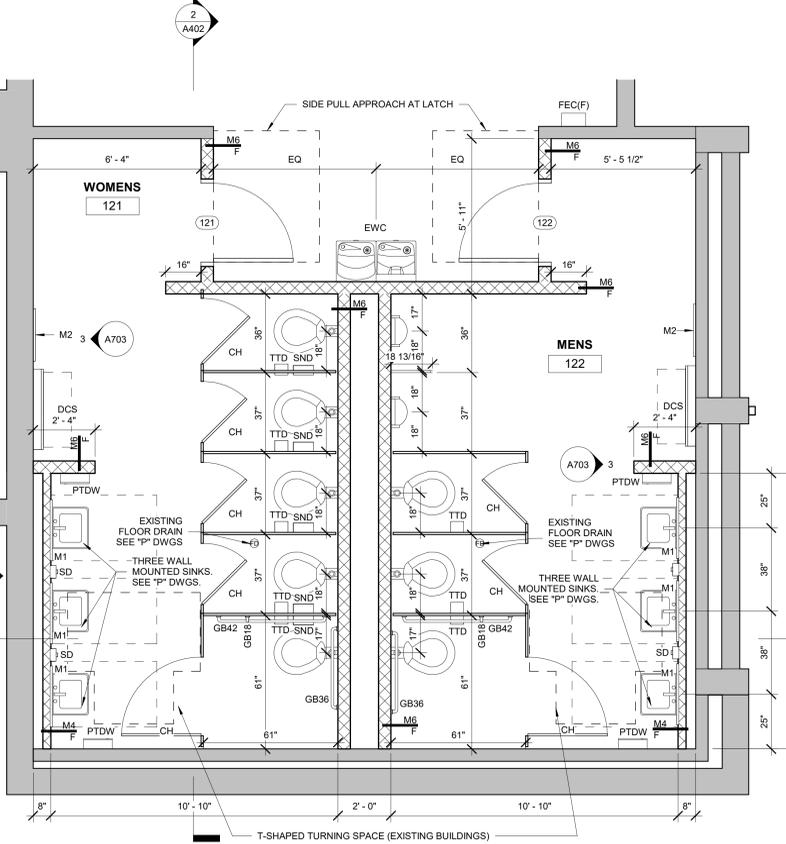
**ENL. PLAN - MP RESTROOMS**  
A110 3/8" = 1'-0"



**ENL. PLAN - NORTH ENTRY VEST.**  
A110 3/8" = 1'-0"



**ENLARGED PLAN - WARMING KITCHEN**  
A110 3/8" = 1'-0"



**ENLARGED PLAN - RESTROOMS**  
A110 3/8" = 1'-0"

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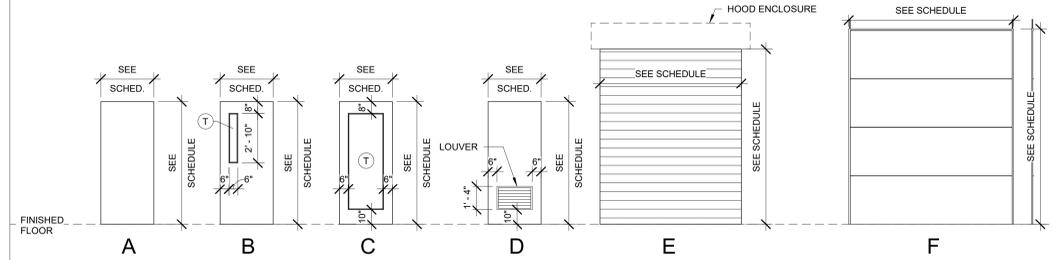
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CHECKED BY: JDH

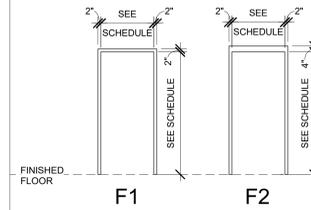
DOOR AND WINDOW SCHEDULES

**A201**

**DOOR LEGEND**



**FRAME LEGEND**



**DOOR ABBREVIATION LEGEND**

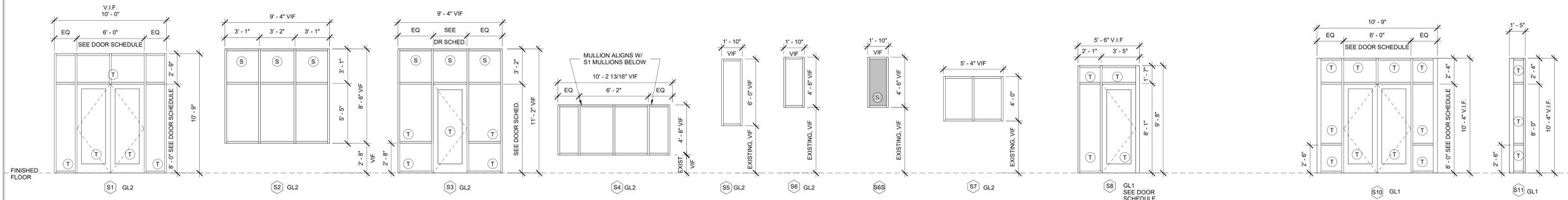
HM	HOLLOW METAL
SCW	SOLID CORE WOOD
TEMP	TEMPERED
PR	PAIR
ALUM	ALUMINUM
FG	DEPLOYABLE FLOOD GATE. SEE SPECS

**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 NUMBER	DOOR		TYPE	MATL	FRAME		HARDWARE	Fire Rating	REMARKS	
	WIDTH	HEIGHT			MATL	HEAD				
100	6'-0"	8'-0"	C	ALUM	S1	ALUM	1/A210	5/A210	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	1/A210	5/A210	HW-03	PR, GL1 GLAZING, FG, ADA DOOR OPERATOR
104A	3'-0"	7'-0"	A	HM	F2	HM	3/A210	7/A210	HW-04	FG
105A	6'-0"	7'-0"	A	HM	F2	HM	3/A210	7/A210	HW-05	PR, FG
105B	6'-0"	7'-0"	A	HM	F2	HM	3/A210	7/A210	HW-05	PR, FG
106	3'-0"	7'-0"	C	HM	F2	HM	3/A210	7/A210	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	1/A210	5/A210	HW-08	FG
112B	3'-0"	7'-0"	B	HM	F2	HM	3/A210	7/A210	HW-07	PR
112C	3'-0"	8'-0"	C	ALUM	S8	ALUM	1/A210	5/A210	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	3/A210	7/A210	HW-07	
113B	3'-0"	8'-0"	C	ALUM	S3	ALUM	1/A210	5/A210	HW-08	FG
114	6'-0"	7'-0"	A	HM	F2	HM	3/A210	7/A210	HW-12	PR
115A	3'-0"	7'-0"	B	HM	F2	HM	3/A210	7/A210	HW-13	
115B	3'-0"	7'-0"	A	HM	F2	HM	3/A210	7/A210	HW-07	
115C	3'-0"	7'-0"	A	HM	F2	HM	3/A210	7/A210	HW-14	AIR CURTAIN; FG
116	3'-0"	7'-0"	A	HM	F2	HM	3/A210	7/A210	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	1/A210	5/A210	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	8/A210	HW-10	6 PANEL OVERHEAD GARAGE DOOR, FG
125B	9'-2"	11'-1"	F	HM			12/A210	8/A210	HW-10	6 PANEL OVERHEAD GARAGE DOOR, FG
125C	3'-0"	7'-0"	C	HM	F2	HM	3/A210	7/A210	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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**TOWN OF CANTON**

**ARMORY COMMUNITY CENTER RENOVATION**

71 PENLAND ST. CANTON, NC 28716

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

**WALL TYPES AND DETAILS**

**A202**

<p>* SEE FLOOR PLAN AND WALL TYPES LEGEND FOR SIZE</p>	<p>* SEE M6H FOR TYPICAL NOTES</p>	<p>UL U906 2 HR RATES ASSEMBLY * SEE FLOOR PLAN AND WALL TYPES LEGEND FOR SIZE</p>
<p><b>M6H, M8H - HM DOOR HEAD DETAIL</b>      PLAN 1 1/2" = 1' 0"</p>	<p><b>M6H-C HEAD DETAIL</b>      PLAN 1 1/2" = 1' 0"</p>	<p><b>M6, M8 - WALL TYPES</b>      PLAN 1 1/2" = 1' 0"</p>
<p>* SEE M6J FOR TYPICAL NOTES</p>	<p>* SEE M6J FOR TYPICAL NOTES</p>	<p>UL U906 1 HR RATED ASSEMBLY</p>
<p><b>M6J, M8J - HM DOOR JAMB DETAIL</b>      PLAN 1 1/2" = 1' 0"</p>	<p><b>M6J-C JAMB DETAIL</b>      PLAN 1 1/2" = 1' 0"</p>	<p><b>GW4G, GW6G - WALL TYPES</b>      PLAN 1 1/2" = 1' 0"</p>
<p>UL U906 1 HR RATED ASSEMBLY</p>	<p>UL U906 1 HR RATED ASSEMBLY</p>	<p>UL U906 1 HR RATED ASSEMBLY</p>
<p><b>M6J, M8J - HM DOOR JAMB DETAIL</b>      PLAN 1 1/2" = 1' 0"</p>	<p><b>GW4GJ, GW6GJ, GW8GJ JAMB DETAIL</b>      PLAN 1 1/2" = 1' 0"</p>	<p><b>GW4G, GW6G - WALL TYPES</b>      PLAN 1 1/2" = 1' 0"</p>
<p>UL U906 1 HR RATED ASSEMBLY</p>	<p>UL U906 1 HR RATED ASSEMBLY</p>	<p>UL U906 1 HR RATED ASSEMBLY</p>
<p><b>GW4GJ, GW6GJ, GW8GJ JAMB DETAIL</b>      PLAN 1 1/2" = 1' 0"</p>	<p><b>GW4G, GW6G - WALL TYPES</b>      PLAN 1 1/2" = 1' 0"</p>	<p><b>GW4G, GW6G - WALL TYPES</b>      PLAN 1 1/2" = 1' 0"</p>
<p>UL U906 1 HR RATED ASSEMBLY</p>	<p>UL U906 1 HR RATED ASSEMBLY</p>	<p>UL U906 1 HR RATED ASSEMBLY</p>
<p><b>GW4G, GW6G - WALL TYPES</b>      PLAN 1 1/2" = 1' 0"</p>	<p><b>GW4G, GW6G - WALL TYPES</b>      PLAN 1 1/2" = 1' 0"</p>	<p><b>GW4G, GW6G - WALL TYPES</b>      PLAN 1 1/2" = 1' 0"</p>
<p>S2 - UPPER LEVEL SLAB      PLAN 1 1/2" = 1' 0"</p>	<p>S1 - CONCRETE SLAB ON GRADE      PLAN 1 1/2" = 1' 0"</p>	<p>S1 - CONCRETE SLAB ON GRADE      PLAN 1 1/2" = 1' 0"</p>

**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

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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/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

Design No. U005

August 8, 2025

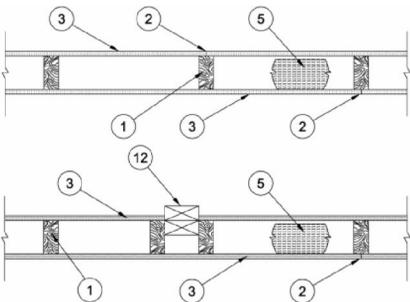
Bearing Wall Rating – 1 Hr

Finish Rating – See Items 3, 3A, 3D, 3E, 3F, 3G, 3H, 3J and 3L

STC Rating – 98 (See Item 5)

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 eUL Certification Mark for jurisdictions employing the UL or eUL Certification (such as Canada), respectively.



1. Wood Studs – Nom 2 by 4 in. spaced 16 in. OC, max. effectively firestopped.

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 5 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 5 bugle-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type 5 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 5-1/2 steel screws spaced 8 in. OC, vertical joints located midway between studs.

AMERICAN GYPSUM CO – Types AGX-1 (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-1 (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.

CERTAINTEEED 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 WRC (finish rating 22 min), Type WRX (finish rating 24 min), Type ULUX (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 GPF51 (finish rating 20 min), Type GPF52 (finish rating 20 min), Type GPF53 (finish rating 26 min), Type DS, Type DAP, Type DG (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), Water Rated – 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 FSWR-C, Type FSW-B (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 BUILDINGS PRODUCTS L L C, DBA PABCO GYPSUM – Types C, PG-2 (finish rating 20 min), PG-3 (finish rating 20 min), Type 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-5WS, PGS-WRS (finish rating 20 min), Types PG-5, PG-9 (finish rating 26 min), PG-11 PG-13 (Nails increased to 2 in.), Type PG-C or PGI (finish rating 26 min)

PANEL REY S A – Type ARX, GREX, GRX, 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-1 (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 ULX (finish rating 22 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type ULUX (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 DE 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), SCX (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type ULX (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-1 (finish rating 25 min.), M-Glass (finish rating 25 min.), AG-C (finish rating 25 min.), LightRoc (finish rating 25 min.)

CERTAINTEEED 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 SGX (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 FRX-G (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min)

USG BORAL DRYWALL SFZ LLC – Types C, SCX, SGX (finish rating 24 min).

USG MEXICO S A DE 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, Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min)

3B. Gypsum Board\* – (As an alternate to Item 3) – Nom 3/4 in. thick, installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-3/8 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A.

CGC INC – Types AR, IP-AR

UNITED STATES GYPSUM CO – Types AR, IP-AR

USG MEXICO S A DE C V – Types AR, IP-AR

3C. Gypsum Board\* – (As an alternate to Items 3, 3A and 3B) – 5/8 in. thick, 2 ft wide, tongue and groove edge, applied horizontally to one side of the assembly. Installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-1/4 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A. Joint covering (Item 2) not required.

CGC INC – Type SHX

UNITED STATES GYPSUM CO – Type SHX

USG MEXICO S A DE C V – Type SHX

3D. Gypsum Board\* – (As an alternate to Items 3, 3A, 3B, or 3C – Not Shown) – For Direct Application to Studs Only- 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. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. placed on the face of studs and attached to the stud with two 1 in. long Type 5-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs or tabs may be used in lieu of or in addition to the lead batten strips or optional at other locations. Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards underneath screw locations prior to the installation of the screws. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade 'C'.

RAY-BAR ENGINEERING CORP – Type RB-LBG (finish rating 24 min)

3E. Gypsum Board\* – (As an alternate to Items 3, 3A, 3B, 3C, and 3D) – 5/8 in. thick gypsum panels, with square 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 2 screws 1 and 4 in. from edge of board or 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 of other than 48 in., gypsum boards are to be installed horizontally.

GEORGIA-PACIFIC GYPSUM L L C – Type DGG (finish rating 20 min), GreenGloss Type X (finish rating 23 min)

3F. Gypsum Board\* – (As an alternate to Items 3, 3A, 3B, 3C, 3D, and 3E) – 5/8 in. glass-mat faced with square edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC around the perimeter and in the field with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Nails shall be placed 1 inch and 3 inch from horizontal joints and 7 inch OC thereafter.

CGC INC – Type USGX (finish rating 22 min)

UNITED STATES GYPSUM CO – Type USGX (finish rating 22 min.)

USG BORAL DRYWALL SFZ LLC – , Type USGX (finish rating 22 min.)

USG MEXICO S A DE C V – Type USGX (finish rating 22 min.)

3G. Gypsum Board\* – (As an alternate to Items 3 through 3F) – 5/8 in. thick paper surfaced applied 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.

GEORGIA-PACIFIC GYPSUM L L C – Type X ComfortGuard Sound Deadening Gypsum Board (finish rating 27 min)

3H. Gypsum Board\* – (As an alternate to Items 3) – Not to be used with Items 6 or 7, 5/8 in. thick paper surfaced applied vertically only. 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.

NATIONAL GYPSUM CO – Type SBWS

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.

hank 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.

ABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM – Type QuietRock ES (finish rating 20 min)

J. Gypsum Board\* – (As an alternate to Item 3) – 5/8 in. thick paper surfaced applied vertically or horizontally. Gypsum panels secured with 1-1/4 in. Type W coarse thread gypsum panel steel screws spaced a maximum of 12 in. OC.

ERTAINTEED GYPSUM INC – Type SilentFX

K. 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 8 in. OC with the last screw 1 in. from the edge of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

ATIONAL 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 FSWR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min).

L. Gypsum Board\* – (As an alternate to Item 3) – For Direct Application to Studs Only – Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints entered 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. 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 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type 5-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, max 5/16 in. diam by max 0.140 in. thick, compression fitted or adhered over the screw heads. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades 'B, C or D'.

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 5-12 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, Grade 'C'. Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4.

ADIATION 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.

CERTAINTEEED GYPSUM INC – Easy-Lite Type X (finish rating 24 min), Easy-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 edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

CERTAINTEEED 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-13

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-1

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO – Type DBX-1

CABOT MANUFACTURING ULC – Type X

CERTAINTEEED GYPSUM INC – Type X

CGC INC – Type SCX

PANEL REY S A – Type ARX, PRX

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD – Type EX-1

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 DE 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-1)) – 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.

CERTAINTEEED CORP

JOHNS MANVILLE

KNAUF INSULATION LLC

ROCKWOOL MALAYSIA SDN BHD – Type Acoustical Fire Batts and Type AFB, min. density 1.69 pcf / 27.0 kg/m<sup>3</sup>

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. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.

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.

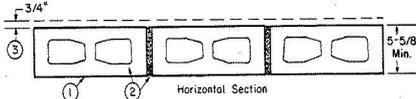
5C. Batts and Blankets\* – Required for use with resilient channels, Item 7, 3 in. thick mineral wool batts. Friction-fitted to fill interior of wall.

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 82L2) 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 B

INTERNATIONAL CELLULOSE CORP – Celbar-R1	b. <b>Steel Framing Members*</b> – 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. <b>REGUPOl AMERICA</b> – Type SonusClip	<b>HOMASOTE CO</b> – Homasote Type 440-32	 <b>Product iQ®</b>
<p>5h. <b>Foamed Plastic*</b> – (Optional – For use with Item 3R) – Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.</p> <p><b>Holcim Solutions and Products US, LLC</b> – Nexseal™ 2.0 or Nexseal™ 2.0 LE Spray Foam and Sucroseal Spray Foam.</p>	<p>6f. <b>Steel Framing Members*</b> – (Optional, Not Shown) – Resilient channels and Steel Framing Members as described below:</p> <p>a. <b>Resilient Channels</b> – Formed of No. 25 MS6 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.</p> <p>b. <b>Steel Framing Members*</b> – 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. <b>KEENE BUILDING PRODUCTS CO INC</b> – Type RC+ Assurance Clip</p>	<p>14a. <b>Mineral and Fiber Board*</b> – (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. <b>HOMASOTE CO</b> – Homasote Type 440-32</p>	<p><b>Design/System/Construction/Assembly Usage Disclaimer</b></p> <ul style="list-style-type: none"> <li>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.</li> <li>Authorities Having Jurisdiction should be consulted before construction.</li> <li>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.</li> <li>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 specific concerning alternate materials and alternate methods of construction.</li> <li>Only products which bear UL's Mark are considered Certified.</li> </ul>
<p>5i. <b>Fiber, Sprayed*</b> – (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/ft<sup>3</sup>.</p> <p><b>Applegate Greenfiber Acquisition LLC</b> – Applegate Advanced Stabilized Cellulose Insulation</p>	<p>6f. <b>Steel Framing Members*</b> – (Optional, Not Shown) – Furring channels and Steel Framing Members as described below:</p> <p>a. <b>Furring Channels</b> – Formed of No. 25 MS6 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.</p> <p>b. <b>Steel Framing Members*</b> – Used to attach furring channels (Item 6Fa) 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 grommet. Furring channels are friction fitted into clips. <b>CLARKDIETRICH BUILDING SYSTEMS</b> – Type ClarkDietrich Sound Clip</p>	<p>14b. <b>Glass Fiber Insulation</b> – (For use with Item 14A) – 3-1/2 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, placed to fill the interior of the wall. See Batts and Blankets (8KNV or BZJZ) categories for names of Classified companies.</p>	<p><b>BXUV</b> – Fire Resistance Ratings – ANSI/UL 263 Certified for United States <b>BXUV7</b> – Fire Resistance Ratings – CAN/ULC-S101 Certified for Canada</p> <p><a href="#">See General Information for Fire-Resistance Ratings – ANSI/UL 263 Certified for United States Design Criteria and Allowable Variances</a></p> <p><a href="#">See General Information for Fire Resistance Ratings – CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances</a></p>
<p>5j. <b>Foamed Plastic*</b> – (Optional, Not Shown – For use with Item 3U) – Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.</p> <p><b>HOLCIM SOLUTIONS AND PRODUCTS US, LLC</b> – Types GocoE2Spray F4500, GocoProFill FR8500R, Goco 052N, GocoOnePass F1850, GocoOnePass Low GWP F1880, and Goco WallFoam 183M</p>	<p>6f. <b>Steel Framing Members*</b> – (Optional, Not Shown) – Furring channels and Steel Framing Members as described below:</p> <p>a. <b>Furring Channels</b> – Formed of No. 25 MS6 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.</p> <p>b. <b>Steel Framing Members*</b> – 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. <b>AMERICAN GYPSUM CO</b> – Type AG-C</p>	<p>14c. <b>Batts and Blankets*</b> – (As an alternate to Item 14B, For use with Item 14A), 3 in. thick mineral wool batts placed to fill interior of wall, attached to the 3-1/2 in. face of the studs with staples placed 24 in. OC. <b>THERMAFIBER/OWENS CORNING</b> – Type SAFB, SAFB FF</p>	<p><b>Design No. U906</b></p>
<p>5k. <b>Foamed Plastic*</b> – (Optional, Not Shown – For use with Item 3V) – Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.</p> <p><b>CARLISLE SPRAY FOAM INSULATION</b> – Types SealTite ONE, SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro CCX, SealTite Pro No Trim 2i, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate CCX, Foamsulate 70, and Foamsulate HFO.</p>	<p>6f. <b>Steel Framing Members*</b> – (Optional, Not Shown) – Furring channels and Steel Framing Members as described below:</p> <p>a. <b>Furring Channels</b> – Formed of No. 25 MS6 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.</p> <p>b. <b>Steel Framing Members*</b> – Used to attach furring channels (Item 6Fa) 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 grommet. Furring channels are friction fitted into clips. <b>CLARKDIETRICH BUILDING SYSTEMS</b> – Type ClarkDietrich Sound Clip</p>	<p>14d. <b>Adhesive</b> – (For use with Item 14A) – Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 14A).</p>	<p><b>Bearing Wall Rating – 2 HR.</b> <b>Nonbearing Wall Rating – 2 HR.</b></p> <p>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 <b>BXUV</b> or <b>BXUV7</b></p> <p>* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.</p>
<p>5l. <b>Foamed Plastic*</b> – (Optional, Not Shown – For use with Item 3W) – Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.</p> <p><b>BASF CORP</b> – Types EnerLite® NM, EnerLite® G, FE178®, Spraytite® 178, Spraytite® B1206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite® HP+, Walltite® MAX, Walltite® LWP, Walltite® Plus, Walltite® One, and EnerLite® Max</p>	<p>6f. <b>Steel Framing Members*</b> – (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 18 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 envelopes 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. <b>PAC INTERNATIONAL L L C</b> – Type RC-1 Boost</p>	<p>14e. <b>Gypsum Board*</b> – (For use with Item 14A) – 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 14A) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 14A), secured to outermost studs and bearing plates with 2 in. long Type S screws spaced 8 in. OC. Gypsum Board joints covered with paper tape and joint compound. Screw heads covered with joint compound. Finish Rating 30 Min. <b>AMERICAN GYPSUM CO</b> – Type AG-C</p>	<p><b>Design No. U906</b></p> 
<p>5m. <b>Foamed Plastic*</b> – (Optional, Not Shown – For use with Item 3X) – Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.</p> <p><b>BASF CORP</b> – Type Walltite® v.5</p>	<p>6f. <b>Steel Framing Members*</b> – (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 18 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 envelopes 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. <b>PAC INTERNATIONAL L L C</b> – Type RC-1 Boost</p>	<p>14f. <b>Mineral and Fiber Board</b> – (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. <b>BLUE RIDGE FIBERBOARD INC</b> – SoundStop</p>	<p>1. <b>Concrete Blocks*</b> – Nominal 6 by 8 by 16 in, hollow or solid. Various designs. Classification (2 hr). See <b>Concrete Blocks</b> category for list of eligible manufacturers.</p> <p><b>ANCHOR CONCRETE PRODUCTS INC</b> <b>GAGNE &amp; SON CONCRETE BLOCK INC</b> <b>GLENWOOD MASONRY PRODUCTS</b> Allowable compressive stress of 57% of max allowable compressive stress in accordance with the empirical design method.</p> <p><b>OLDCASTLE APS SOUTH INC, DBA ADAMS PRODUCTS</b> <b>WESTBROOK CONCRETE BLOCK CO INC</b> Allowable compressive stress of 75.6% of max allowable compressive stress in accordance with the empirical design method.</p>
<p>5n. <b>Loose Fill Material*</b> – Optional – (As an alternate to Items 5-5M) – 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.</p> <p><b>CERTANTEED LLC</b> – Type <a href="#">InsuSafe R</a>, <a href="#">InsuSafe SB</a>, <a href="#">InsuSafe XC</a>, Northern White, or <a href="#">OPTIMA</a></p>	<p>6f. <b>Steel Framing Members*</b> – (Optional, Not Shown) – Furring channels and Steel Framing Members as described below:</p> <p>a. <b>Furring Channels</b> – Formed of No. 25 MS6 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.</p> <p>b. <b>Steel Framing Members*</b> – 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. <b>ISOTECH INDUSTRIES INC.</b> – Type ISGSTUD</p>	<p>14g. <b>Building Units</b> – (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 waler head screws of adequate length to penetrate framing by a minimum of 3/4 in., spaced a max 8 in. o.c.</p> <p><b>NATIONAL GYPSUM CO</b> – Type PBC1</p>	<p>2. <b>Mortar</b> – 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.</p>
<p>6A. <b>Steel Framing Members*</b> – (Optional, Not Shown) – Furring channels and Steel Framing Members on one side of studs as described below:</p> <p>a. <b>Furring Channels</b> – Formed of No. 25 MS6 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.</p> <p>b. <b>Steel Framing Members*</b> – Used to attach furring channels (Item 6a) to studs. 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. <b>KINETICS NOISE CONTROL INC</b> – Type IsoMax</p>	<p>7. <b>Resilient Channel</b> – Optional – Not Shown – For use on one side of the wall – Resilient channels, 25 MS6 galv steel, spaced vertically 24 in. OC. Flange 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.</p>	<p>14h. <b>Mineral and Fiber Board</b> – (Optional, Not Shown) – For optional use as an additional layer on one side of 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. <b>BLUE RIDGE FIBERBOARD INC</b> – SoundStop</p>	<p>3. <b>Portland Cement Stucco or Gypsum Plaster</b> – Add 1/2 hr to Classification if used. Attached to concrete blocks (Item 1).</p>
<p>6B. <b>Steel Framing Members*</b> – (Optional, Not Shown) – Furring channels and Steel Framing Members as described below:</p> <p>a. <b>Furring Channels</b> – Formed of No. 25 MS6 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.</p> <p>b. <b>Steel Framing Members*</b> – Used to attach furring channels (Item 6Ba) to studs. 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. <b>KINETICS NOISE CONTROL INC</b> – Type IsoMax</p>	<p>8. <b>Caulking and Sealants</b> – (Not Shown, Optional) – A bead of acoustical sealant applied around the partition perimeter for sound control.</p> <p>9. <b>STC Rating</b> – The STC Rating of the wall assembly is 56 when it is constructed as described by Items 1 through 5, except:</p> <p>A. Item 2, above – Nailheads shall be covered with joint compound.</p> <p>B. Item 2, above – Joints As described, shall be covered with fiber tape and joint compound.</p> <p>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.</p> <p>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.</p> <p>E. Item 8, above – Caulking and Sealants (Not Shown) A bead of acoustical sealant shall be applied around the partition perimeter for sound control.</p> <p>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.</p>	<p>14i. <b>Mineral and Fiber Board</b> – (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. <b>BLUE RIDGE FIBERBOARD INC</b> – SoundStop</p>	<p>4. <b>Foamed Plastic*</b> – (Optional-Not Shown) – 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).</p> <p><b>ATLAS ROOFING CORP</b> – EnergyShield Pro Wall Insulation, EnergyShield Pro 2 Wall Insulation, EnergyShield CGF Pro, EnergyShield Ply Pro, EnergyShield® CGF, EnergyShield® PanelCast, EnergyShield® and "EnergyShield® XR</p> <p><b>DUPONT DE NEMOURS, INC.</b> – Types Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XAIR® CI Exterior Insulation, Thermax Hi Insulation, Thermax Plus Linear Panel, Thermax Heavy Duty Plus (HDP), TUFF-IR™ ci Insulation, Thermax Butler StyWool Insulation Board and Thermax Morton Heavy Duty Insulation Board</p>
<p>6C. <b>Steel Framing Members*</b> – (Optional, Not Shown) – Furring channels and Steel Framing Members as described below:</p> <p>a. <b>Furring Channels</b> – Formed of No. 25 MS6 galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 3.</p> <p>b. <b>Steel Framing Members*</b> – Used to attach furring channels (Item 6Ca) 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. <b>PLITEQ INC</b> – Type Genie Clip</p>	<p>10. <b>Wall and Partition Facings and Accessories*</b> – (Optional, Not Shown) – Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be 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. <b>PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM</b> – Type QuietTrack QR-500 and QR-510</p>	<p>14j. <b>Mineral and Fiber Board</b> – (Optional, Not Shown) – 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 2 in. long Type W steel screws, spaced 12 in. OC. The required UL Classified gypsum board layer(s) is/are to be 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.</p>	<p>5. <b>Mortar</b> – 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.</p>
<p>6D. <b>Steel Framing Members*</b> – (Optional, Not Shown) – Furring channels and Steel Framing Members as described below:</p> <p>a. <b>Furring Channels</b> – Formed of No. 25 MS6 galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 3.</p> <p>b. <b>Steel Framing Members*</b> – Used to attach furring channels (Item 6Ca) to studs. Clips spaced 48 in. OC, and secured to studs with No. 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips. <b>STUDDO BUILDING SYSTEMS</b> – RESILIMOUNT Sound Isolation Clips – Type A237 or A237R</p>	<p>11. <b>Cementitious Backer Units*</b> – (Optional Item Not Shown – For Use On Faces Of IHS Systems With All Standard Items Required) – 7/16 in., 1/2 in., 5/8 in., 3/4 in. or 1 in. thick, min. 32 in. wide. Applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with cement board screws of adequate length to penetrate stud by a minimum of 3/8 in. for steel framing members, and a minimum of 3/4 in. for wood framing members spaced a max of 8 in. OC. When 4 ft. wide boards are used, horizontal joints need not be backed by framing. <b>NATIONAL GYPSUM CO</b> – Type DuraBacker, PermaBase, DuraBacker Plus, or PermaBase Plus</p>	<p>14k. <b>Mineral and Fiber Board*</b> – (Optional, Not Shown) – 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 2 in. long Type W steel screws, spaced 12 in. OC. The required UL Classified gypsum board layer(s) is/are to be 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.</p>	<p>6. <b>Mortar</b> – 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.</p>
<p>6E. <b>Steel Framing Members*</b> – (Optional, Not Shown) – Furring channels and Steel Framing Members as described below:</p> <p>a. <b>Furring Channels</b> – Formed of No. 25 MS6 galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 3.</p> <p>b. <b>Steel Framing Members*</b> – Used to attach furring channels (Item 6Ea) to studs. Clips spaced 48 in. OC, and secured to studs with No. 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips. <b>STUDDO BUILDING SYSTEMS</b> – RESILIMOUNT Sound Isolation Clips – Type A237 or A237R</p>	<p>12. <b>Non-bearing Wall Partition Intersection</b> – (Optional) – Two nominal 2 by 4 in. studs or nominal 2 by 6 in. studs nailed together with two 3 in. long 10d nails spaced a max. 16 in. OC, vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max. 16 in. OC, vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC, vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.</p>	<p>14l. <b>Mineral and Fiber Board*</b> – (Optional, Not Shown) – 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 2 in. long Type W steel screws, spaced 12 in. OC. The required UL Classified gypsum board layer(s) is/are to be 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.</p>	<p>7. <b>Mortar</b> – 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.</p>
<p>6F. <b>Steel Framing Members*</b> – (Optional, Not Shown) – Furring channels and Steel Framing Members as described below:</p> <p>a. <b>Furring Channels</b> – Formed of No. 25 MS6 galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 3.</p> <p>b. <b>Steel Framing Members*</b> – Used to attach furring channels (Item 6Fa) to studs. Clips spaced 48 in. OC, and secured to studs with No. 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips. <b>STUDDO BUILDING SYSTEMS</b> – RESILIMOUNT Sound Isolation Clips – Type A237 or A237R</p>	<p>13. <b>Mesh Netting</b> – (Not Shown) – Any thin, woven or non-woven fibrous netting material attached with staples to the outer face of one row of studs to facilitate the installation of the sprayed fiber from the opposite row.</p>	<p>14m. <b>Mineral and Fiber Board*</b> – (Optional, Not Shown) – 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 2 in. long Type W steel screws, spaced 12 in. OC. The required UL Classified gypsum board layer(s) is/are to be 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.</p>	<p>8. <b>Mortar</b> – 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.</p>
<p>6G. <b>Steel Framing Members*</b> – (Optional, Not Shown) – Furring channels and Steel Framing Members as described below:</p> <p>a. <b>Furring Channels</b> – Formed of No. 25 MS6 galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 3.</p> <p>b. <b>Steel Framing Members*</b> – Used to attach furring channels (Item 6Ga) to studs. Clips spaced 48 in. OC, and secured to studs with No. 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips. <b>STUDDO BUILDING SYSTEMS</b> – RESILIMOUNT Sound Isolation Clips – Type A237 or A237R</p>	<p>13. <b>Mesh Netting</b> – (Not Shown) – Any thin, woven or non-woven fibrous netting material attached with staples to the outer face of one row of studs to facilitate the installation of the sprayed fiber from the opposite row.</p>	<p>14n. <b>Mineral and Fiber Board*</b> – (Optional, Not Shown) – 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 2 in. long Type W steel screws, spaced 12 in. OC. The required UL Classified gypsum board layer(s) is/are to be 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.</p>	<p>9. <b>Mortar</b> – 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.</p>
<p>6H. <b>Steel Framing Members*</b> – (Optional, Not Shown) – Furring channels and Steel Framing Members as described below:</p> <p>a. <b>Furring Channels</b> – Formed of No. 25 MS6 galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 3.</p> <p>b. <b>Steel Framing Members*</b> – Used to attach furring channels (Item 6Ha) to studs. Clips spaced 48 in. OC, and secured to studs with No. 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips. <b>STUDDO BUILDING SYSTEMS</b> – RESILIMOUNT Sound Isolation Clips – Type A237 or A237R</p>	<p>13. <b>Mesh Netting</b> – (Not Shown) – Any thin, woven or non-woven fibrous netting material attached with staples to the outer face of one row of studs to facilitate the installation of the sprayed fiber from the opposite row.</p>	<p>14o. <b>Mineral and Fiber Board*</b> – (Optional, Not Shown) – 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 2 in. long Type W steel screws, spaced 12 in. OC. The required UL Classified gypsum board layer(s) is/are to be 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.</p>	<p>10. <b>Mortar</b> – 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.</p>
<p>6I. <b>Steel Framing Members*</b> – (Optional, Not Shown) – Furring channels and Steel Framing Members as described below:</p> <p>a. <b>Furring Channels</b> – Formed of No. 25 MS6 galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 3.</p> <p>b. <b>Steel Framing Members*</b> – Used to attach furring channels (Item 6Ia) to studs. Clips spaced 48 in. OC, and secured to studs with No. 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips. <b>STUDDO BUILDING SYSTEMS</b> – RESILIMOUNT Sound Isolation Clips – Type A237 or A237R</p>	<p>13. <b>Mesh Netting</b> – (Not Shown) – Any thin, woven or non-woven fibrous netting material attached with staples to the outer face of one row of studs to facilitate the installation</p>		



CONSULTANT

**TOWN OF CANTON**

**ARMORY COMMUNITY CENTER RENOVATION**

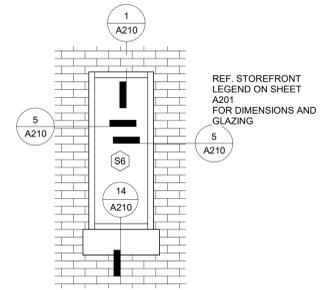
71 PENLAND ST. CANTON, NC 28716

DATE	MARK	DESCRIPTION

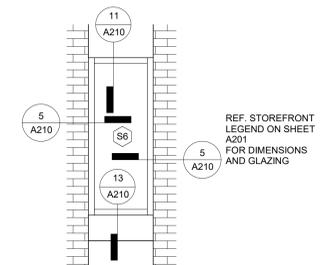
ISSUE: CONSTRUCTION DOCUMENTS  
DATE: 11/12/2025  
PROJECT NO: 23029  
DRAWN BY: JH  
CHECKED BY: JDH

ENLARGED STOREFRONT ELEVATIONS

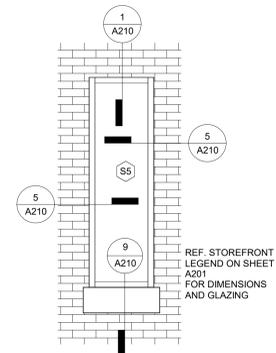
**A205**



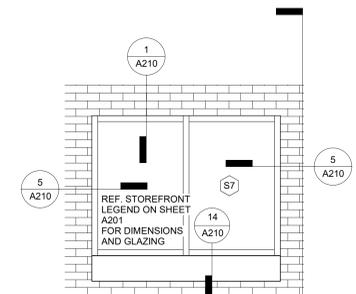
**S6 - STOREFRONT BRICK HEAD**  
3 A205 1/2" = 1'-0"



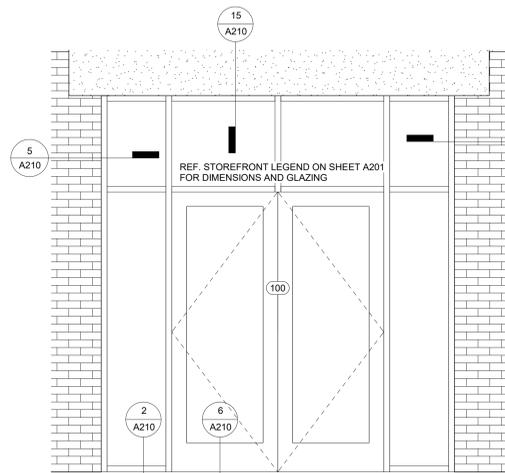
**S6 STOREFRONT - STUCCO HEAD**  
6 A205 1/2" = 1'-0"



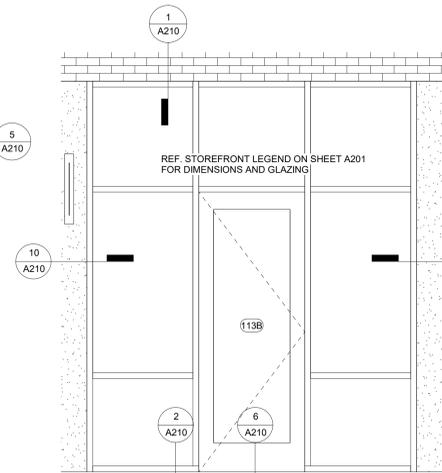
**S5 - STOREFRONT**  
5 A205 1/2" = 1'-0"



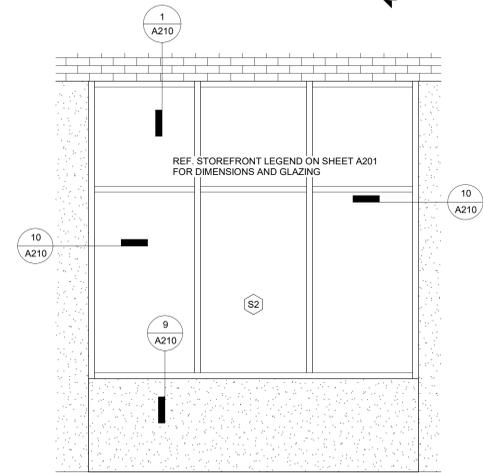
**S7 - STOREFRONT**  
4 A205 1/2" = 1'-0"



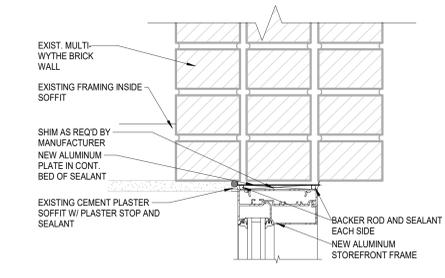
**S1 - STOREFRONT FRONT ENTRY**  
7 A205 1/2" = 1'-0"



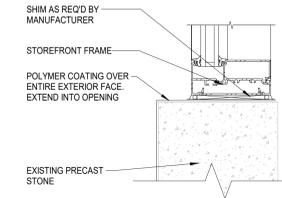
**S1 - STOREFRONT ENTRY**  
2 A205 1/2" = 1'-0"



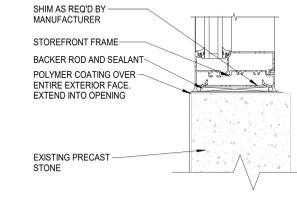
**S2 - STOREFRONT**  
1 A205 1/2" = 1'-0"



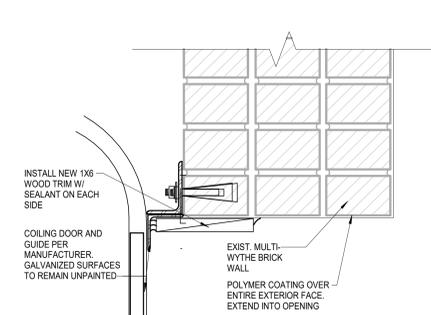
**15 STOREFRONT HEAD @ C.PLASTER CANOPY**  
A210 3" = 1'-0"



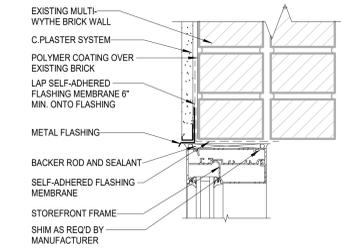
**14 STOREFRONT SILL @ EXIST PRECAST**  
A210 3" = 1'-0"



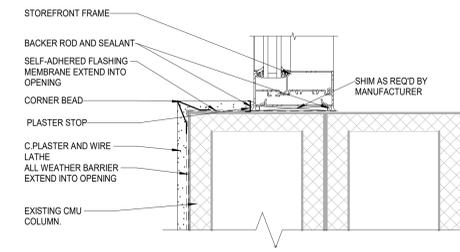
**13 STOREFRONT SILL @ EXIST PRECAST**  
A210 3" = 1'-0"



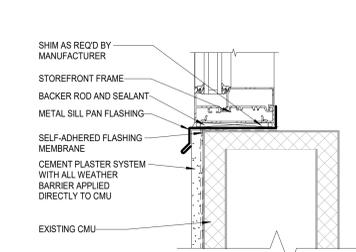
**12 HEAD @ OVERHEAD DOOR**  
A210 3" = 1'-0"



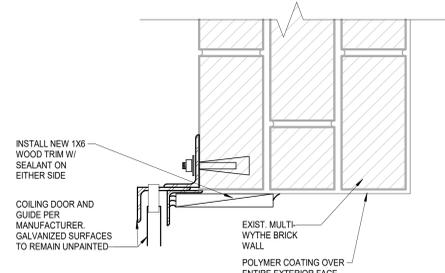
**11 STOREFRONT HEAD @ C.PLASTER**  
A210 3" = 1'-0"



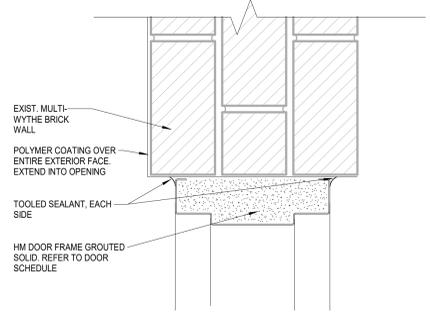
**10 STOREFRONT JAMB @ C.PLASTER COL.**  
A210 3" = 1'-0"



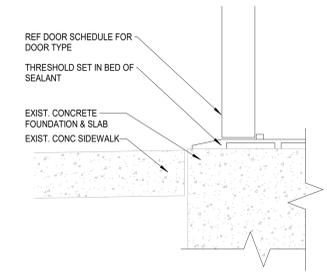
**9 STOREFRONT SILL @ C.PLASTER**  
A210 3" = 1'-0"



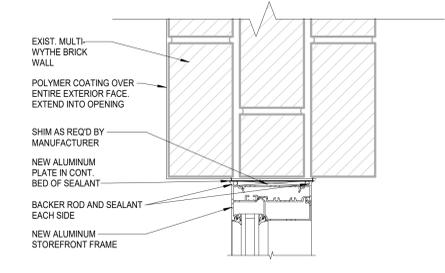
**8 JAMB @ OVERHEAD DOOR**  
A210 3" = 1'-0"



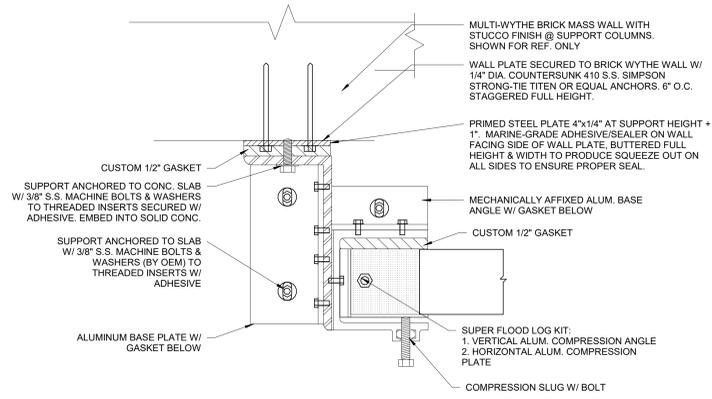
**7 JAMB @ HM DOOR FRAME**  
A210 3" = 1'-0"



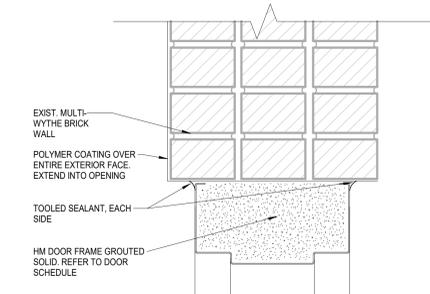
**6 GRADE DETAIL @ THRESHOLD**  
A210 3" = 1'-0"



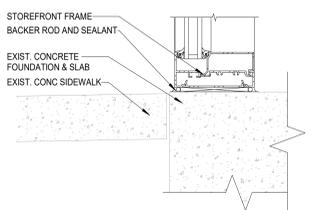
**5 STOREFRONT JAMB @ BRICK**  
A210 3" = 1'-0"



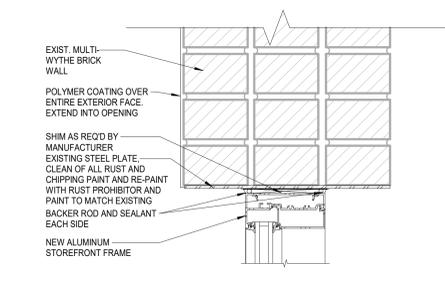
**4 FLOOD BARRIER SUPPORT CONNECTION (PLAN VIEW) - ALT. 2**  
A210 3" = 1'-0"



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



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



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



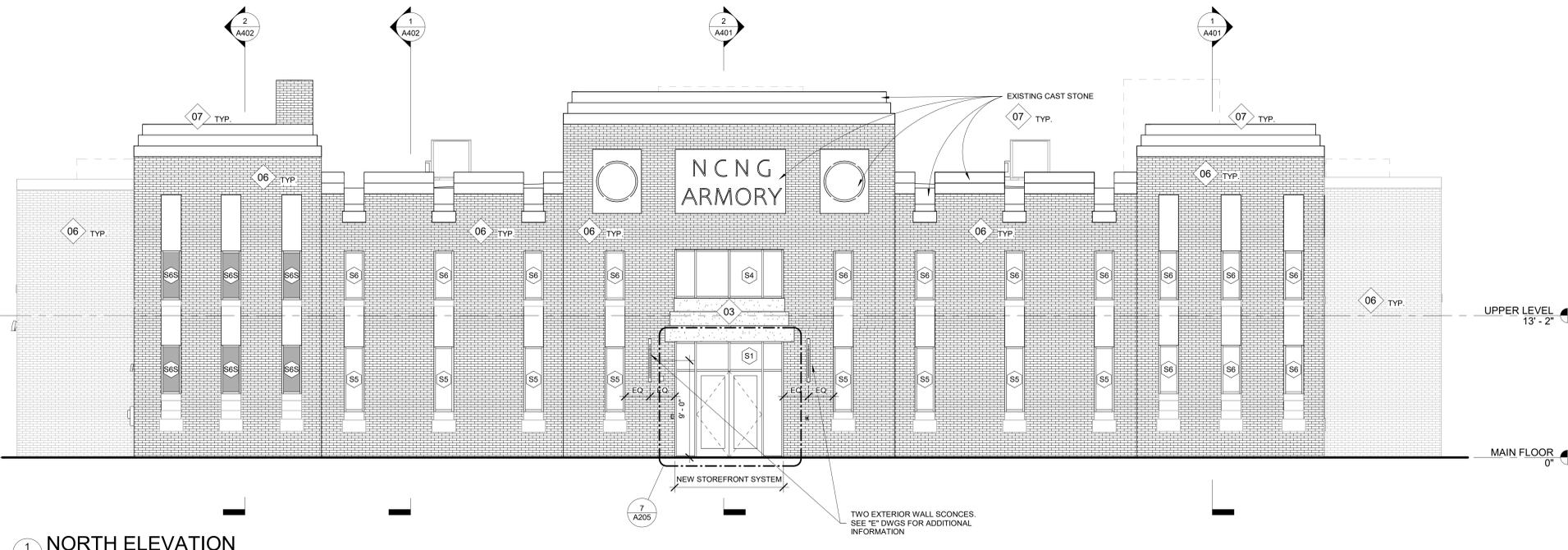
NORTH ELEVATION - SHOWN FOR INFORMATION ONLY



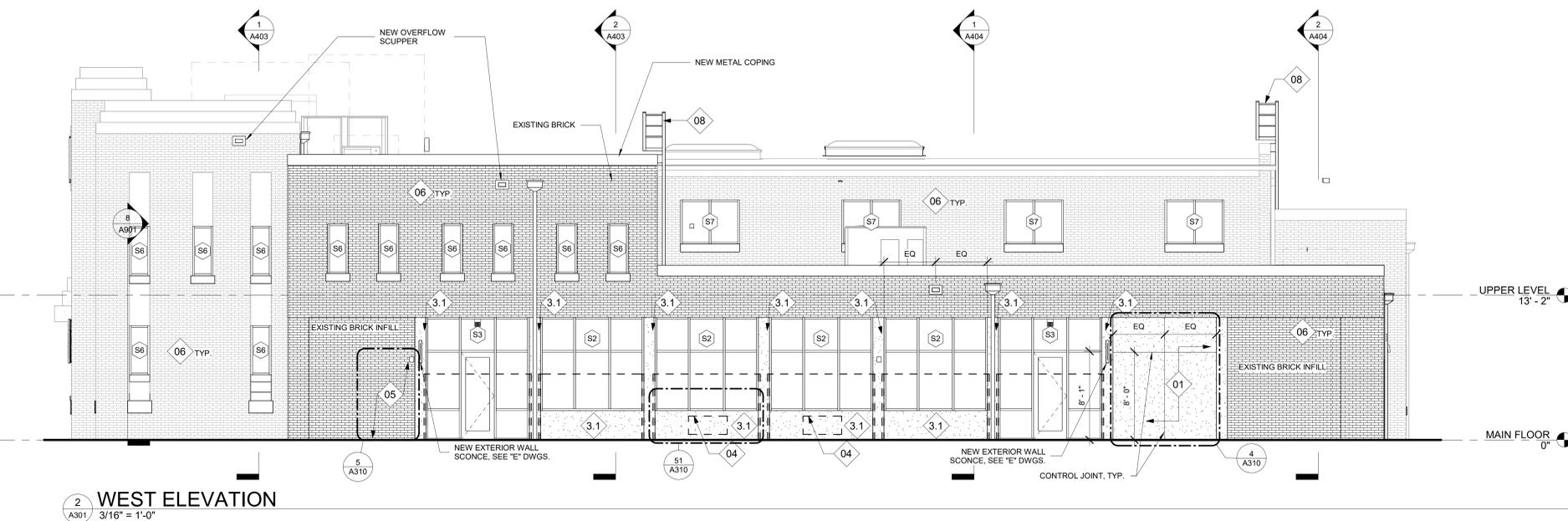
WEST ELEVATION - SHOWN FOR INFORMATION ONLY



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.

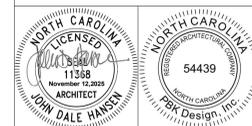
KEY NOTE LEGEND	
01	CEMENT PLASTER SYSTEM WITH ALL WEATHER BARRIER APPLIED DIRECTLY TO CMU INFILL
02	REPLACE DOOR WITH INSULATED SECTIONAL OVERHEAD DOOR
03	CLEAN AND PAINT CEMENT PLASTER SYSTEM. REPAIR DAMAGED/SPALDING STUCCO. REPLACE ALL SEALANT JOINTS.
3.1	CEMENT PLASTER SYSTEM WITH ALL WEATHER BARRIER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

**CRAIG GAULDEN DAVIS PBK**

19 Washington Park  
Greenville, SC 29601  
Phone 864.242.0761  
Fax 864.501.9945  
Email cgd@cgdarch.com

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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

EXTERIOR ELEVATIONS

**A301**

Autodesk Docs/Canton Armory/Canton Armory Architectural.rvt  
11/13/2025 11:56:27 AM



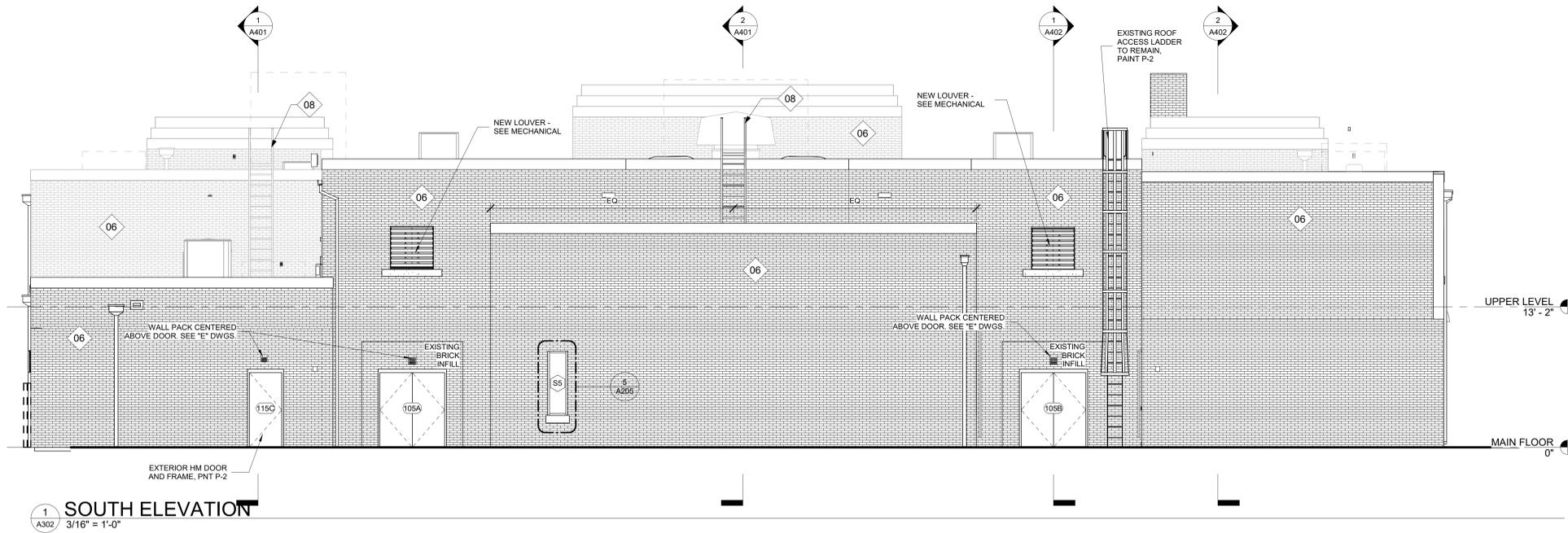
SOUTH ELEVATION - SHOWN FOR INFORMATION ONLY



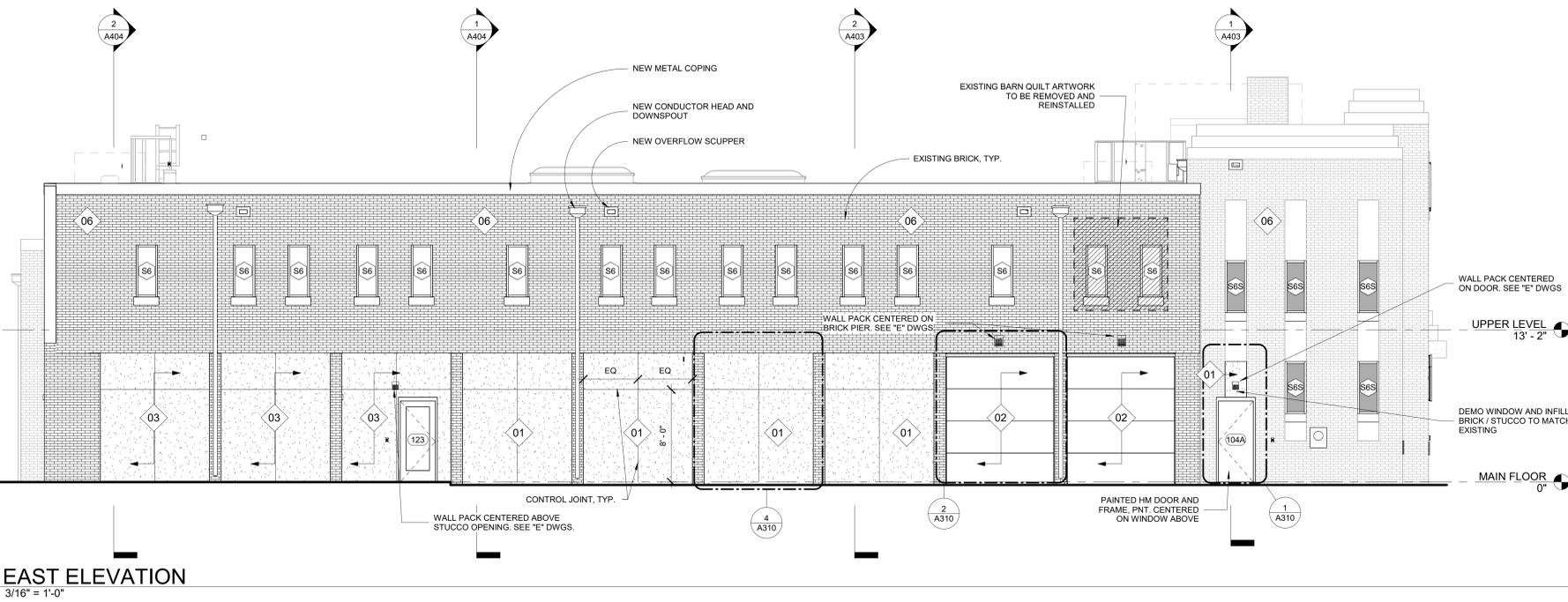
NORTH EAST ELEVATION - SHOWN FOR INFORMATION ONLY



EAST ELEVATION - SHOWN FOR INFORMATION ONLY



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



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

**GENERAL ELEVATION NOTES**

- 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 REPAIR BRICK MORTAR JOINTS AS NEEDED. PREP TO RECEIVE POLYMER SEALANT. REPLACE SPALDING BRICK. REF: 18A310
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 4A501. DESIGN AND ENGINEERING BY CONTRACTOR SHALL MEET ALL REGULATORY STANDARDS.
04 INFILL MECHANICAL UNIT OPENING WITH CMU.	

**CRAIG GAULDEN DAVIS PBK**

19 Washington Park  
Greenville, SC 29601  
Phone 864.242.0761  
Fax 864.501.9945  
Email cgd@cgdarch.com

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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  
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EXTERIOR ELEVATIONS

**A302**

Autodesk Docs/Canton Armory Community Center Architectural.rvt  
11/13/2025 11:53:17 AM

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**TOWN OF CANTON**

**ARMORY COMMUNITY CENTER RENOVATION**

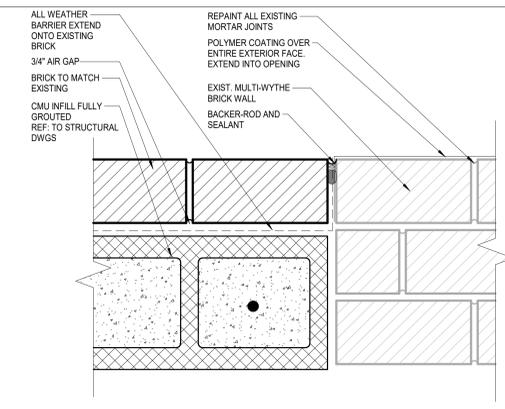
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DATE	MARK	DESCRIPTION

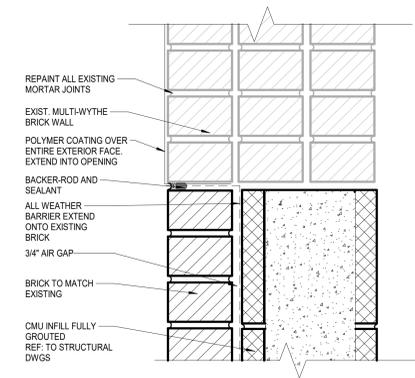
ISSUE: CONSTRUCTION DOCUMENTS  
DATE: 11/12/2025  
PROJECT NO: 23029  
DRAWN BY: JH  
CHECKED BY: JDH

ENLARGED ELEVATIONS/  
INFILL DETAILS

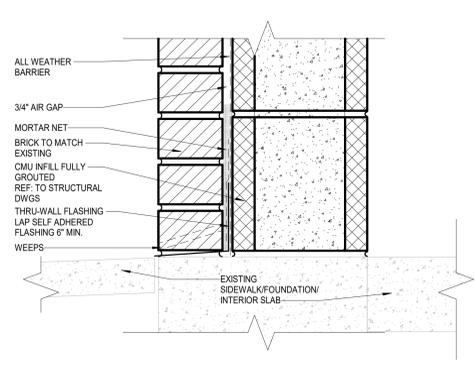
**A310**



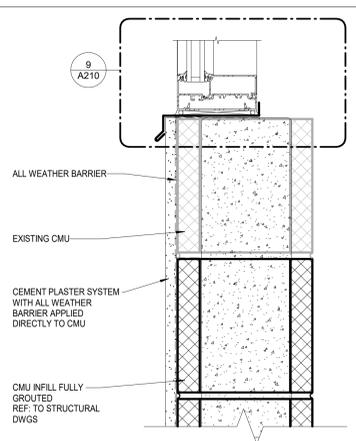
**12 CMU/ BRICK INFILL PLAN DETAIL**  
A310 3" = 1'-0"



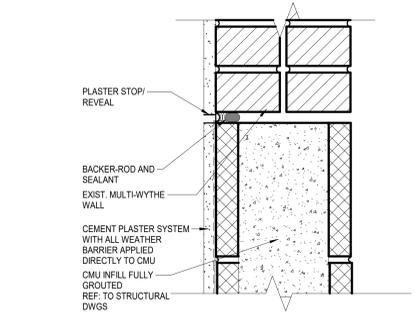
**13 CMU/ BRICK INFILL HEAD DETAIL**  
A310 3" = 1'-0"



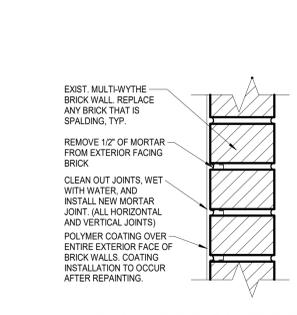
**14 CMU/ BRICK BASE FLASHING DETAIL**  
A310 3" = 1'-0"



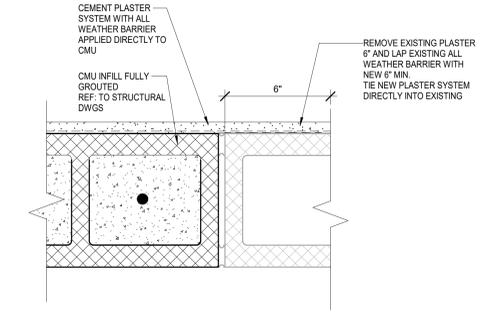
**15 CMU/ STUCCO INFILL HEAD**  
A310 3" = 1'-0"



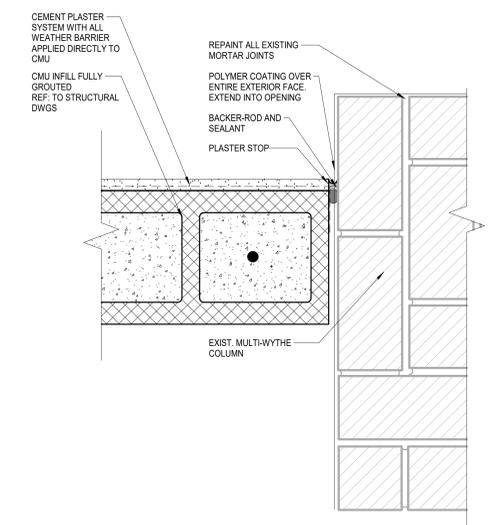
**9 CMU/ STUCCO INFILL HEAD/ JAMB DETAIL**  
A310 3" = 1'-0"



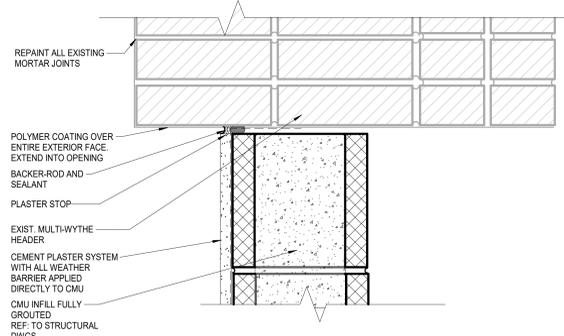
**10 BRICK REPOINT DETAIL**  
A310 3" = 1'-0"



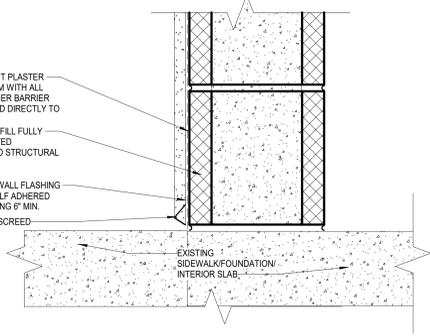
**11 CMU/ STUCCO INFILL PLAN DETAIL**  
A310 3" = 1'-0"



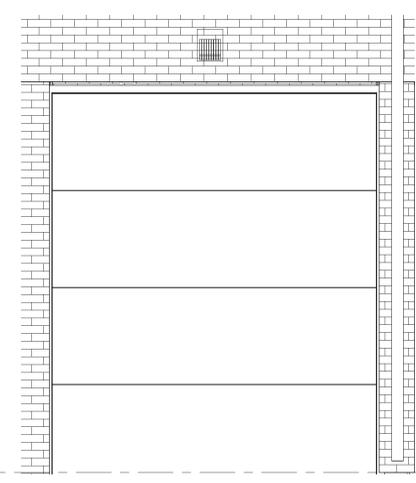
**6 CMU/ STUCCO INFILL PLAN DETAIL**  
A310 3" = 1'-0"



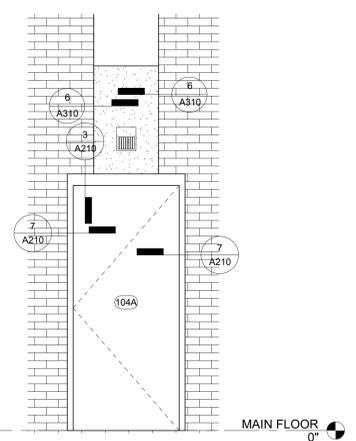
**7 CMU/ STUCCO INFILL HEAD DETAIL**  
A310 3" = 1'-0"



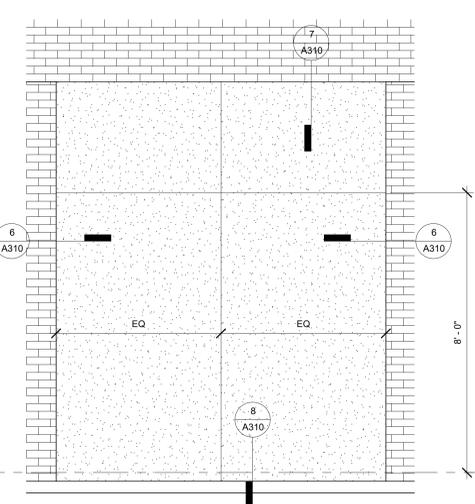
**8 CMU/ STUCCO BASE FLASHING DETAIL**  
A310 3" = 1'-0"



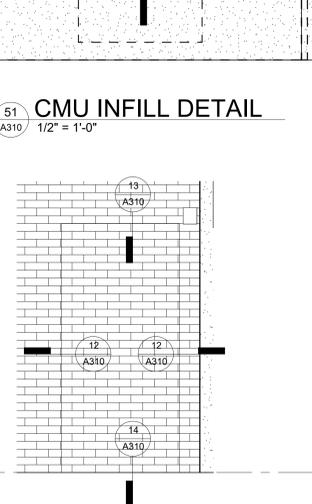
**2 GARAGE DOOR ENLARGED**  
A310 1/2" = 1'-0"



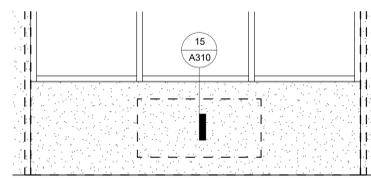
**1 HM DOOR INFILL**  
A310 1/2" = 1'-0"



**4 CMU/STUCCO INFILL**  
A310 1/2" = 1'-0"



**5 CMU/ BRICK INFILL**  
A310 1/2" = 1'-0"



**51 CMU INFILL DETAIL**  
A310 1/2" = 1'-0"

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7 6 5 4 3 2 1



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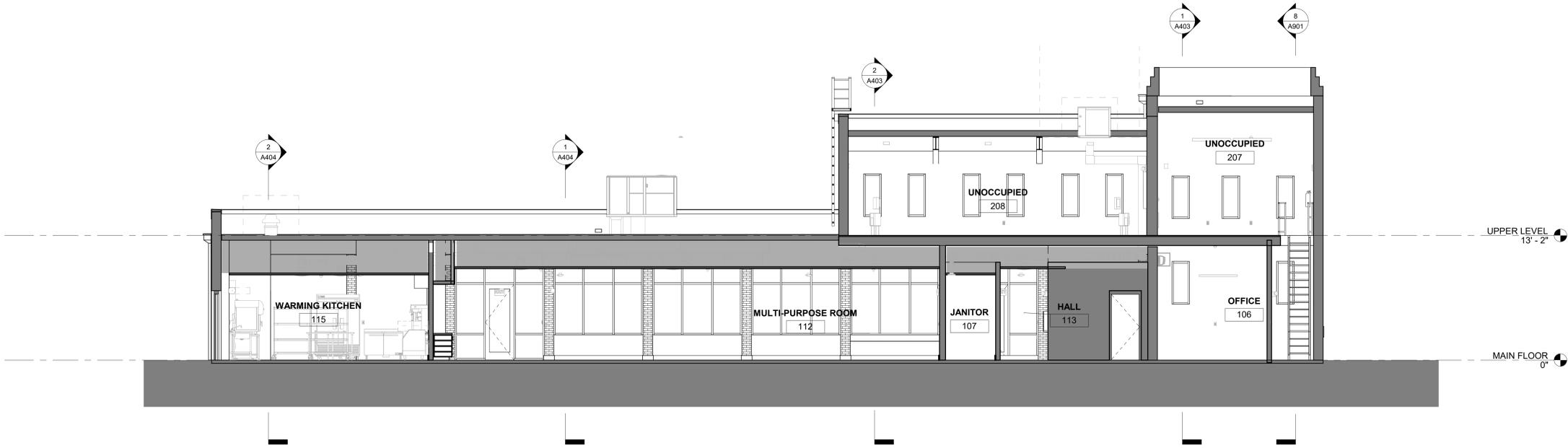
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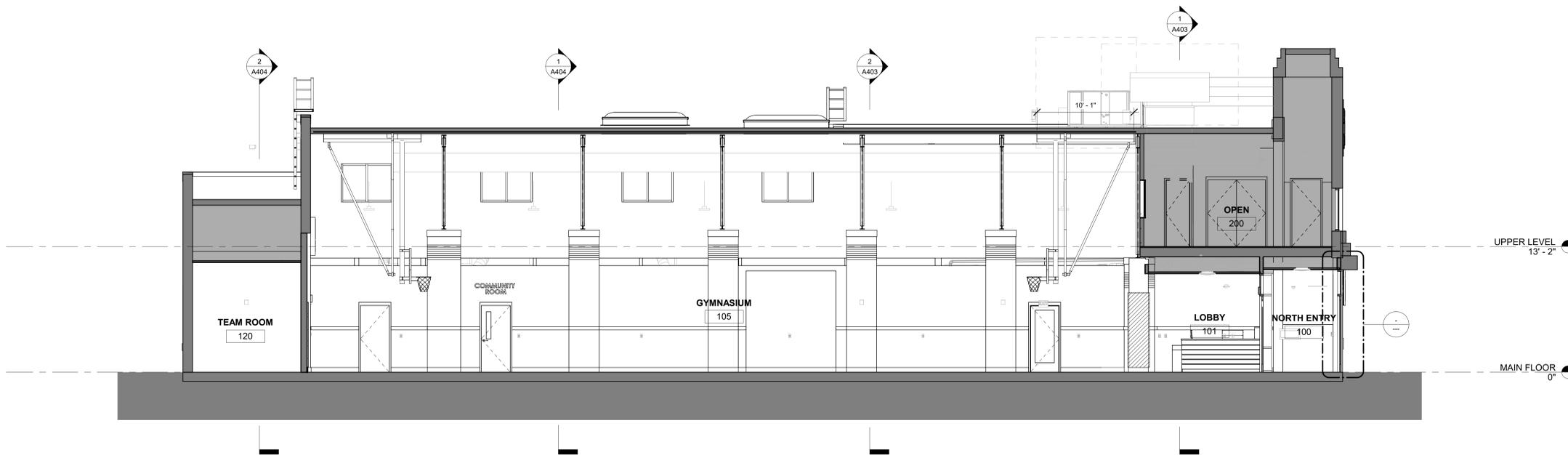
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LONGITUDINAL BUILDING SECTIONS

A401

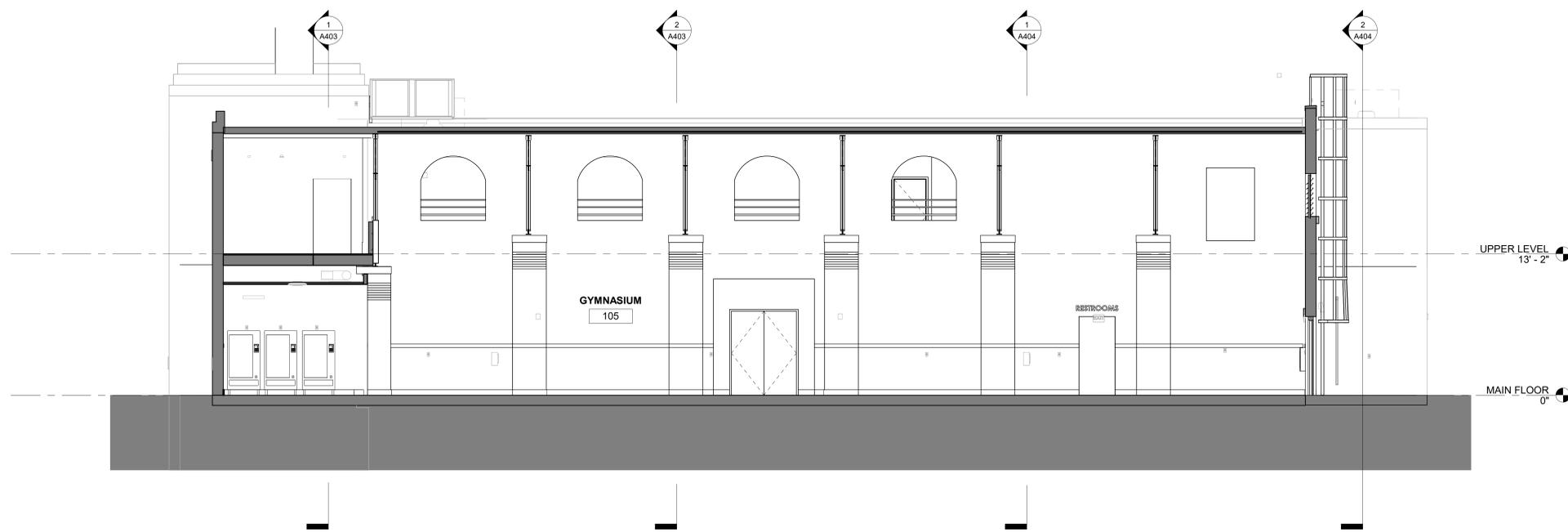


1 LONGITUDINAL SECTION THRU MULTI-PURPOSE ROOM  
3/16" = 1'-0"



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

7 6 5 4 3 2 1



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



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

7 6 5 4 3 2 1

CRAIG  
GAULDEN  
DAVIS **PBK**

19 Washington Park  
Greenville, SC 29601  
Phone 864.242.0761  
Fax 864.501.9945  
Email cgd@cgdarch.com

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LONGITUDINAL BUILDING  
SECTIONS

A402

F

E

D

C

B

A

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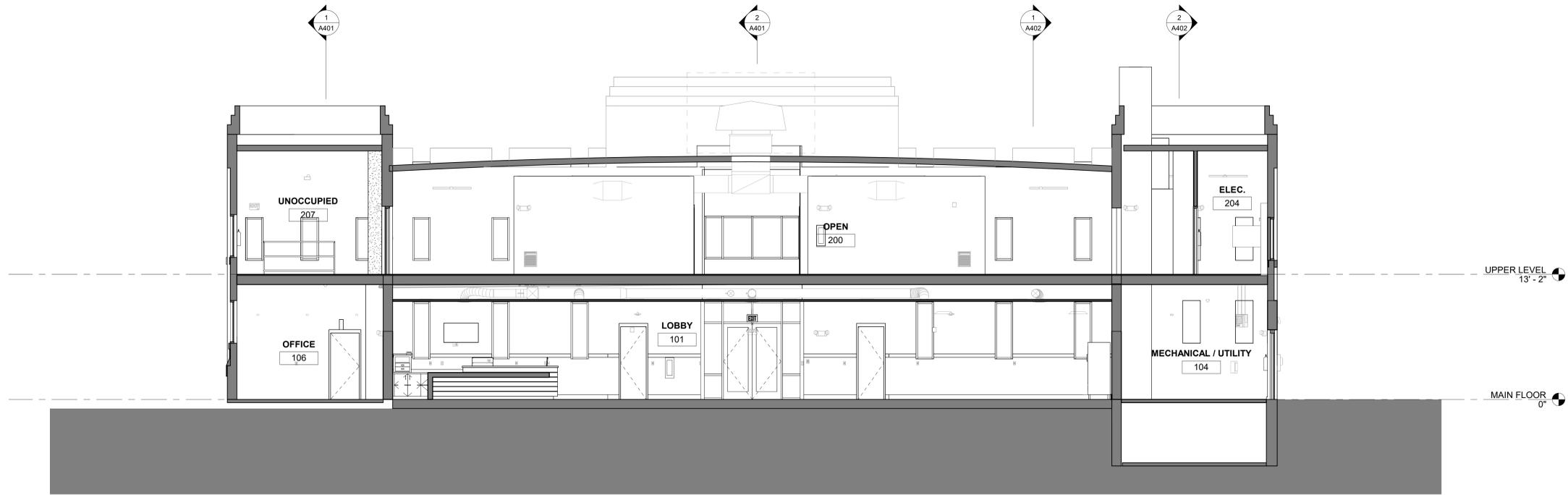
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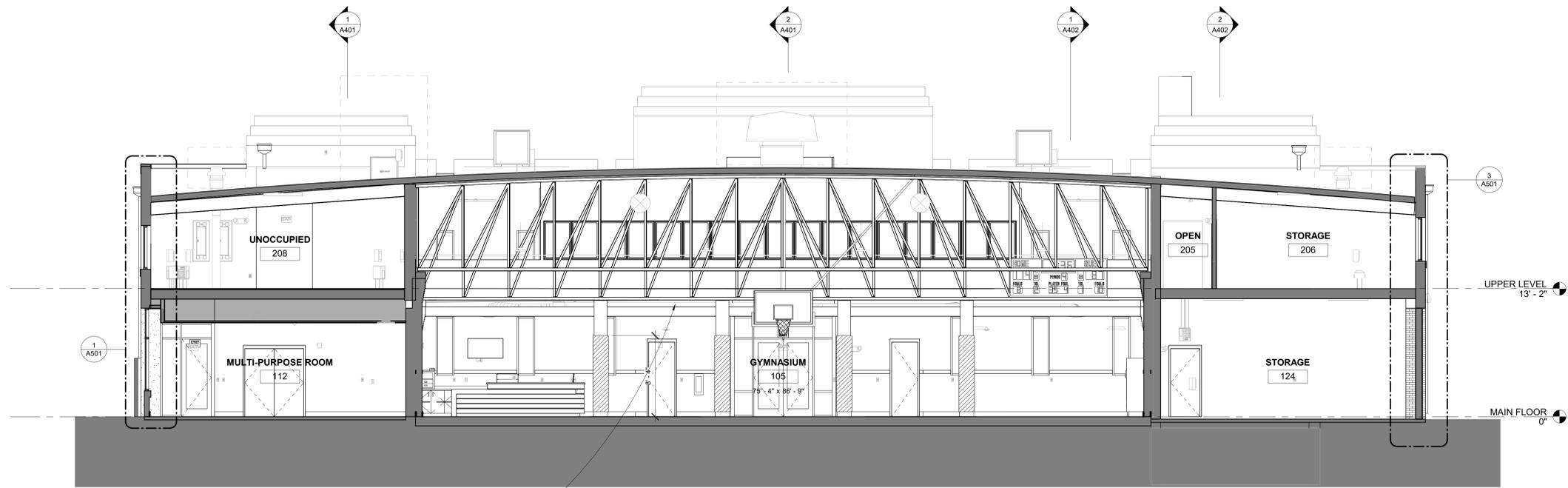
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TRANSVERSE BUILDING SECTIONS

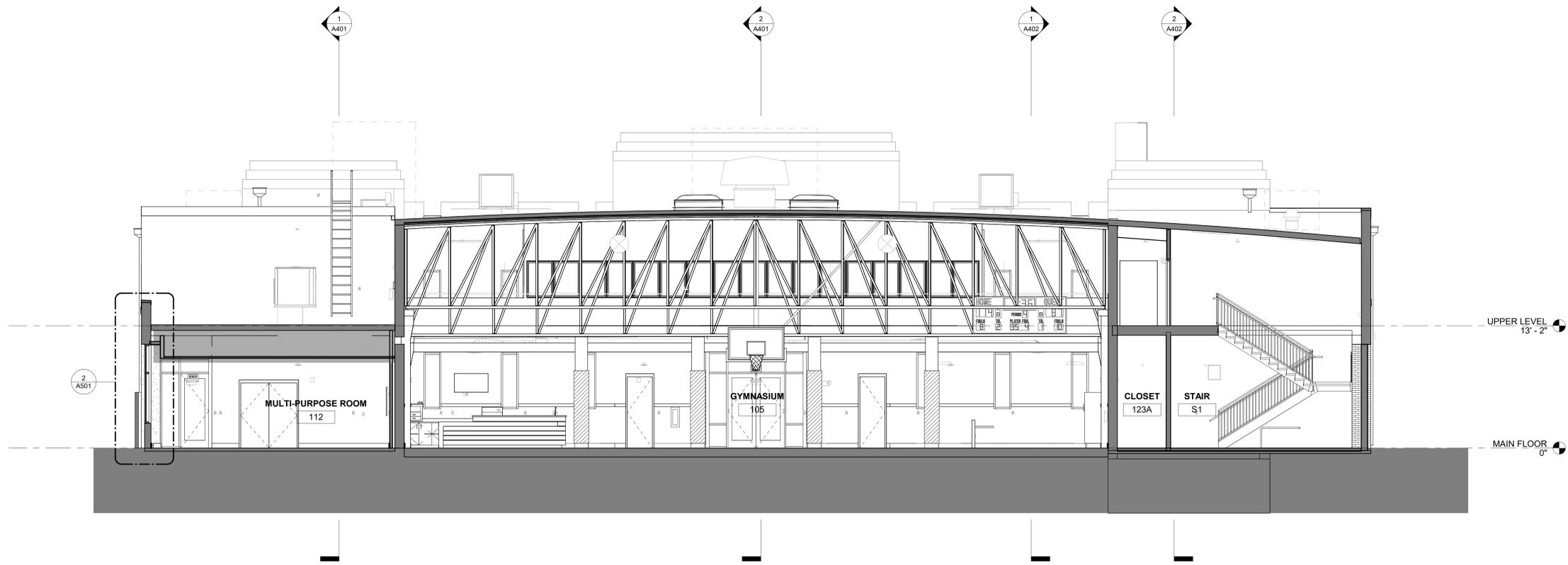
**A403**



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



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



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



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

7 6 5 4 3 2 1

CRAIG GAULDEN DAVIS **PBK**

19 Washington Park  
 Greenville, SC 29601  
 Phone 864.242.0761  
 Fax 864.501.9945  
 Email cgd@cgdarch.com

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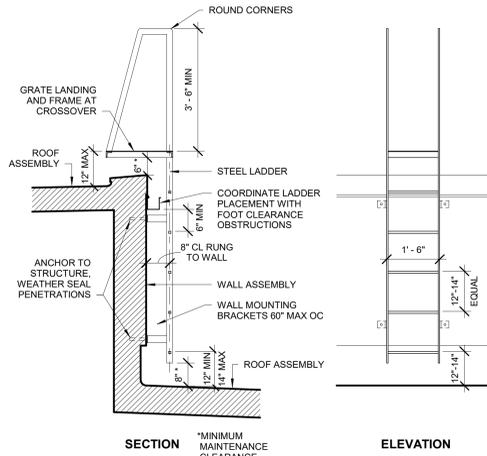
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TRANSVERSE BUILDING SECTIONS

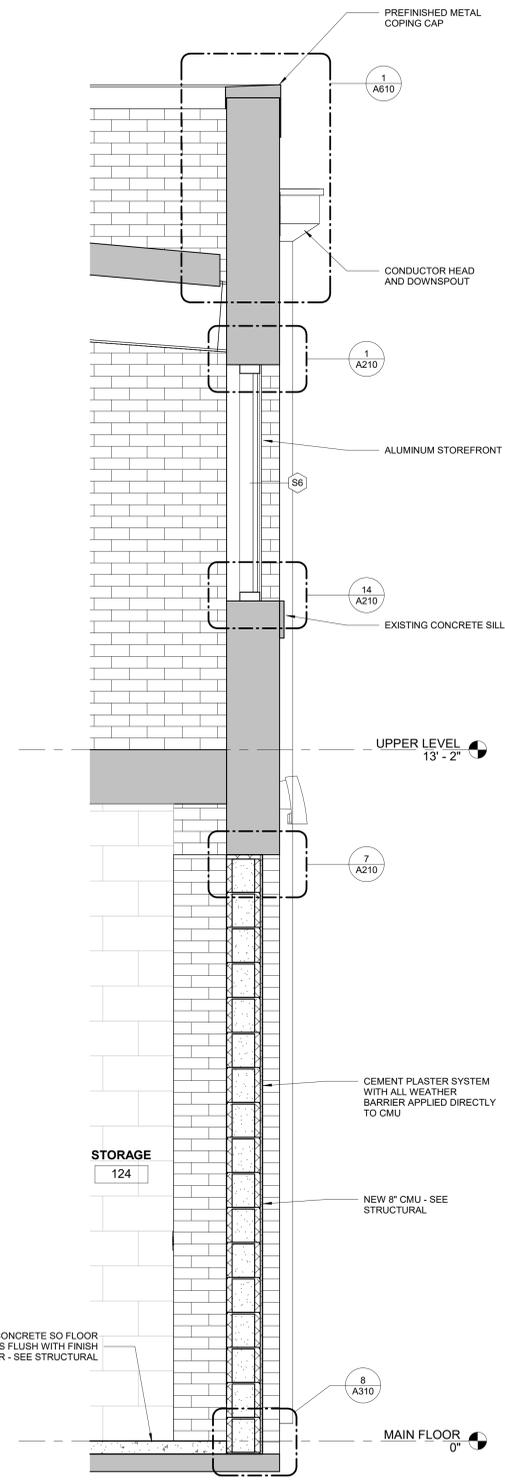
A404



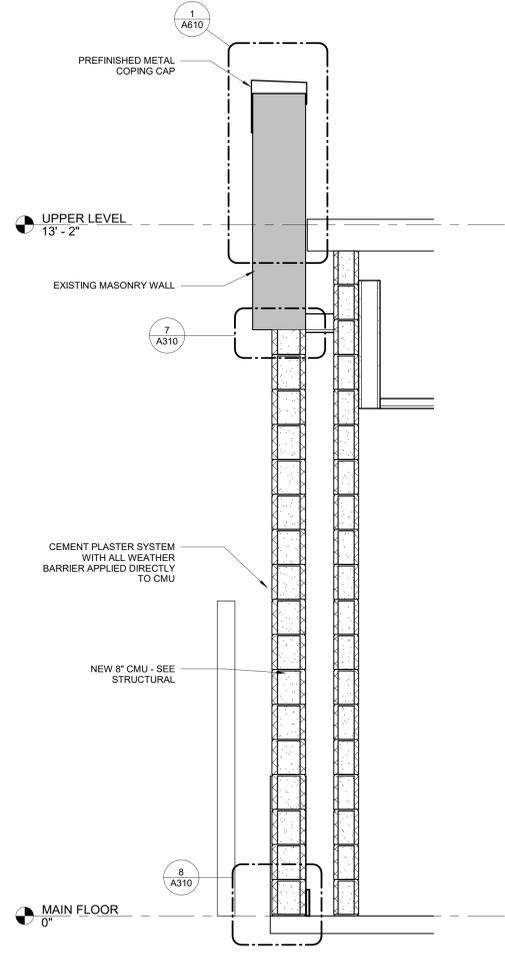
SECTION ELEVATION

NOTE:  
 1. PROVIDE SHOP DRAWINGS WITH ENGINEER'S REVIEW AND SEAL FOR MANUFACTURED LADDER AND SAFETY CAGES.  
 2. ALL STEEL TO BE HOT DIPPED GALVANIZED AFTER FABRICATION FOR PAINTED FINISH. ALUMINUM TO BE MILL FINISH.

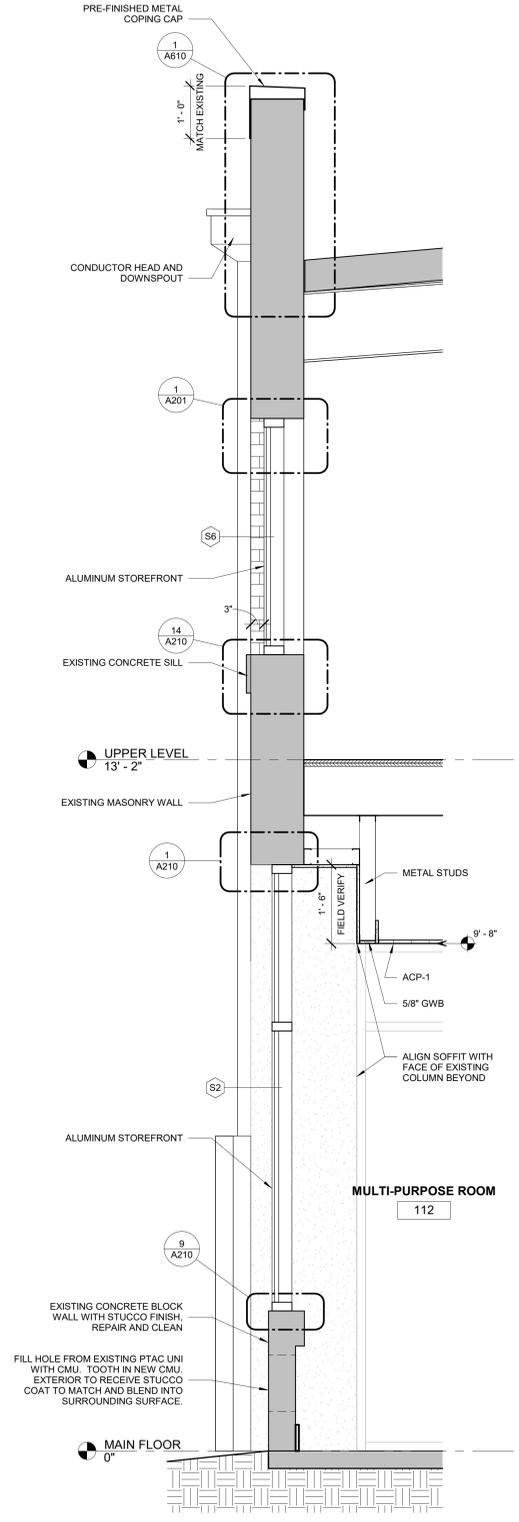
4 ROOFTOP LADDER DETAIL  
 1/2" = 1'-0"



3 WS @ EAST FACADE / STORAGE  
 3/4" = 1'-0"



2 WS @ WEST FACADE / KITCHEN  
 3/4" = 1'-0"



1 WS @ W. FACADE / MULTI PURPOSE  
 3/4" = 1'-0"

CRAIG GAULDEN DAVIS

Architecture

19 Washington Park  
 Greenville, SC 29601  
 Phone 864.242.0761  
 Fax 864.501.9945  
 Email cgd@cgdaarch.com

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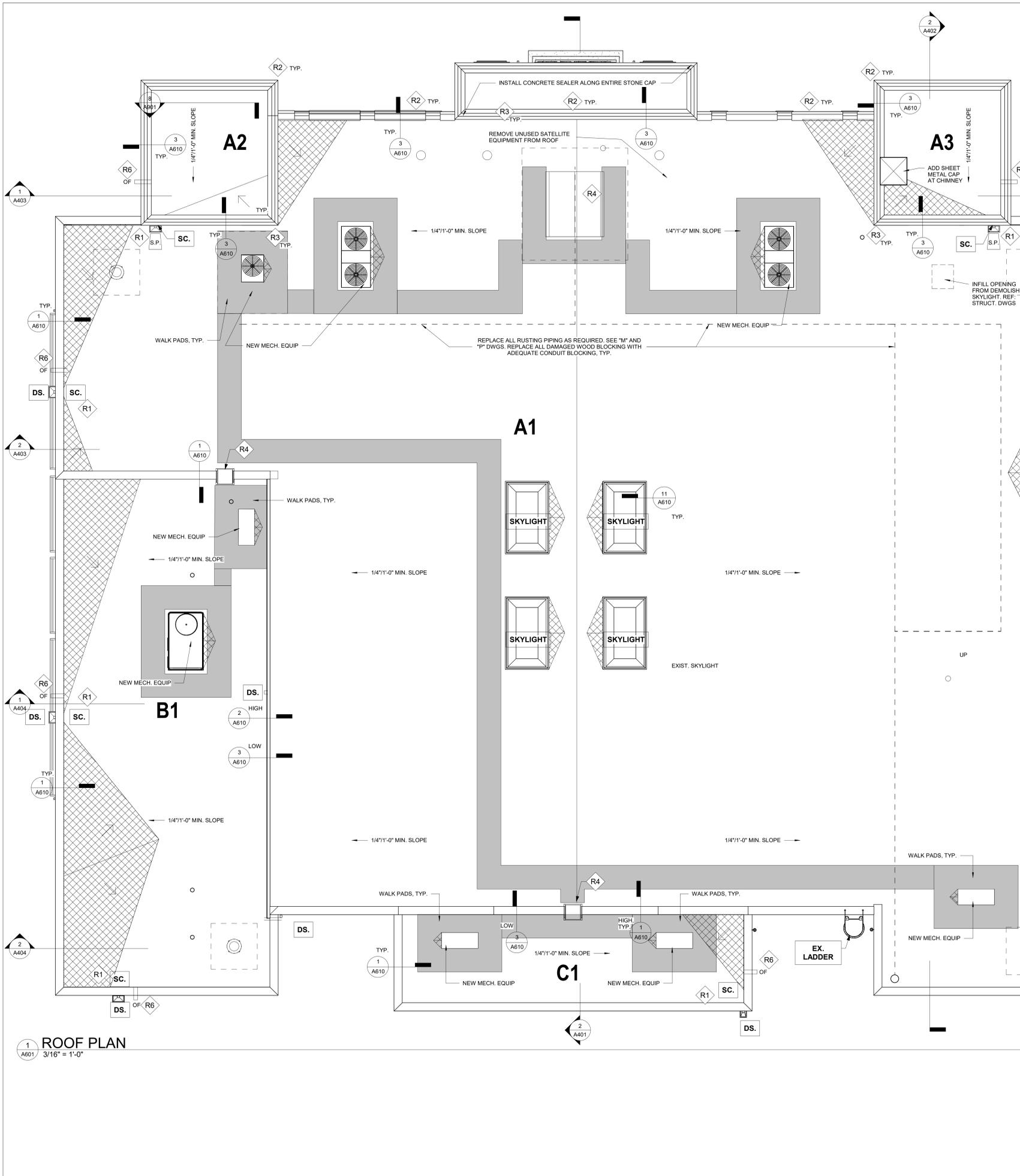
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WALL SECTIONS

A501

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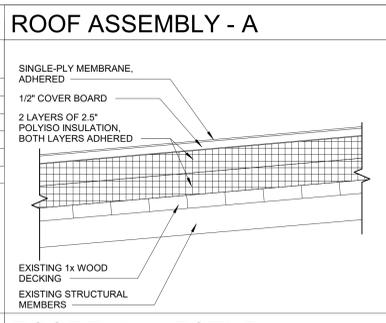
### ROOF AREAS

AREA	APPROX. SQ. FT.	EXISTING NOMENCLATURE (CONTRACTOR TO VERIFY)	PROPOSED ASSEMBLY
A1	11,434	TPO/PSO(17)TPO/PSO(3)1x WOOD DECK	A
A2	300	TPO/PSO(17)TPO/PSO(3)1x WOOD DECK	A
A3	300	TPO/PSO(17)TPO/PSO(3)1x WOOD DECK	A
B1	1,765	TPO/PSO(17)TPO/PSO(3)1x WOOD DECK	A
C1	562	TPO/PSO(17)TPO/PSO(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:**  
 PSO: POLYISOCYANURATE (THICKNESS)  
 PLS: 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
- S.P.** 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/A310
  - 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 ROTTEN AND / OR OTHERWISE DETERIORATED WOOD NAILER MATERIAL WITH NEW LIKE MATERIAL AND THICKNESS.
  - REPLACE ROTTEN AND / OR OTHERWISE DETERIORATED WOOD ROOF DECK MATERIALS (AS APPLICABLE) WITH 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 ADJOINING 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 / 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.
  - ISOLATE ALL HEAT PIPES / FLUES AS DETAILED AND RECOMMENDED AND OUTLINED IN THE IRCA MANUAL FOR HOT STACK FLASHING AND AS DETAILED.
  - GENERAL CONTRACTOR TO ENSURE ALL ROOF TOP PENETRATIONS (ROCK 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. (GENERAL CONTRACTOR TO COORDINATE WITH ROOFING AND PLUMBING CONTRACTOR.)
  - 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.
  - PAINT 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.

**CRAIG GAULDEN DAVIS PBK**

19 Washington Park  
 Greenville, SC 29601  
 Phone 864.242.0761  
 Fax 864.501.9945  
 Email cgd@gdarch.com

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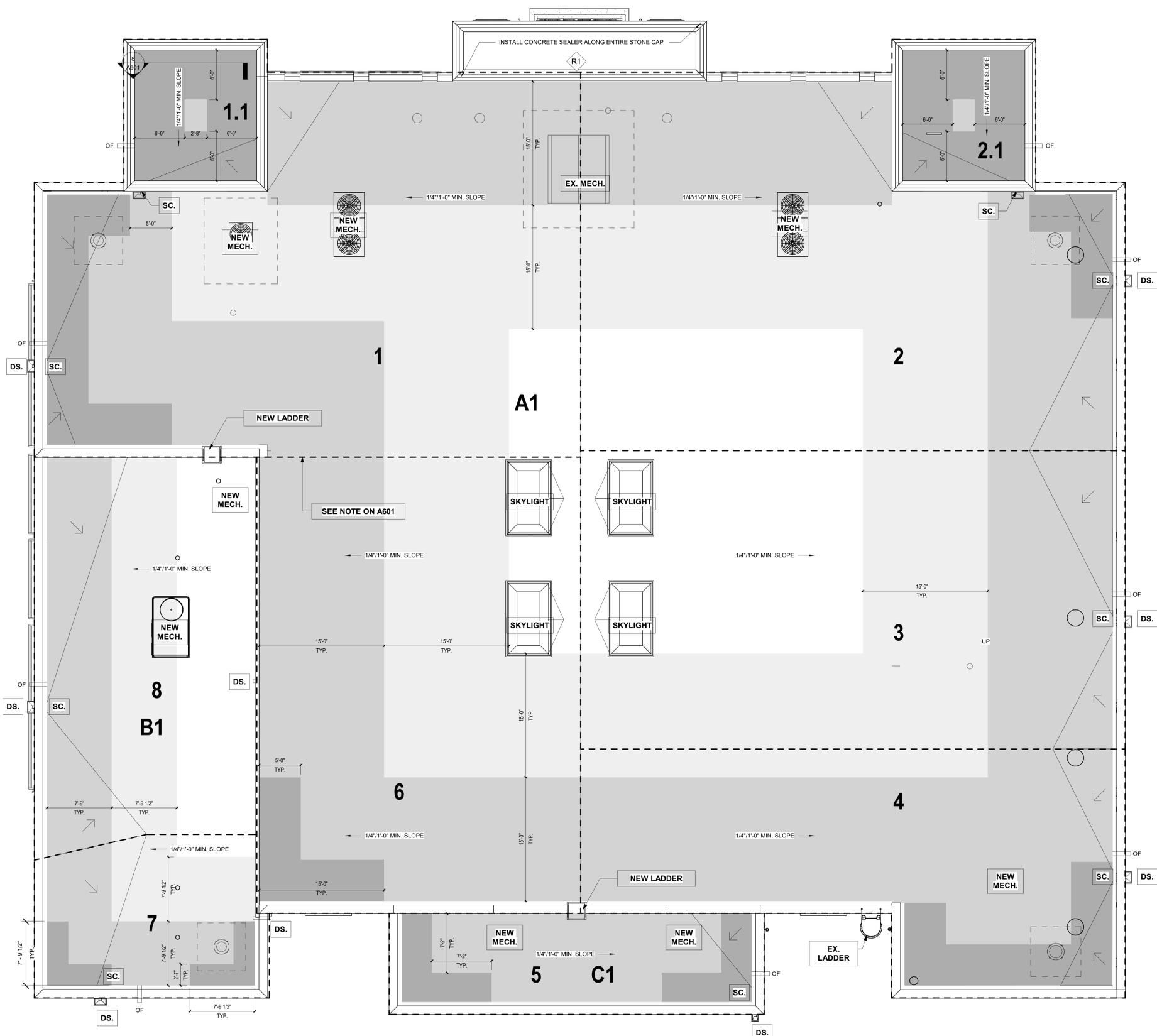
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**ROOF PLAN**

**A601**

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**DRAINAGE CALCULATIONS**

ROOF BAY	WALL AREA (SQ FT)	TRIBUTARY AREA (SQ FT)	TOTAL AREA SERVED (SQ FT)	REQD GPM / PROVIDED GPM	REQUIRED SCUPPER SIZE (in w/h) 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")  
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 = 96 GPM  
16" W SCUPPER = 193.3 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.  
F1. REQUIRED FLOW RATE FOR OVERFLOWS IS AS LISTED FOR EACH BAY IN TABLE ABOVE (REQD 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.mca.net/> AS A GENERAL GUIDE.

**ROOF PLAN LEGEND**

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

**1 ROOF PLAN**  
A602 3/16" = 1'-0"

**CRAIG GAULDEN DAVIS PBK**

19 Washington Park  
Greenville, SC 29601  
Phone 864.242.0761  
Fax 864.501.9945  
Email cgd@gdarch.com

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WIND-UPLIFT & DRAINAGE PLAN

**A602**

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**TOWN OF CANTON**

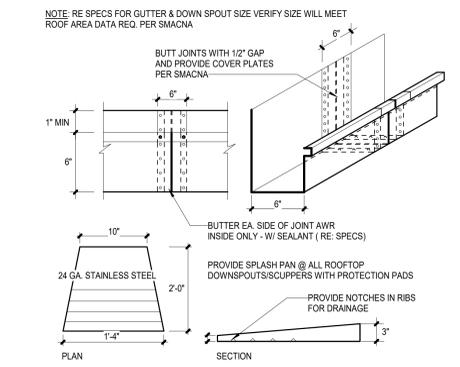
**ARMORY COMMUNITY CENTER RENOVATION**

71 PENLAND ST. CANTON, NC 28716

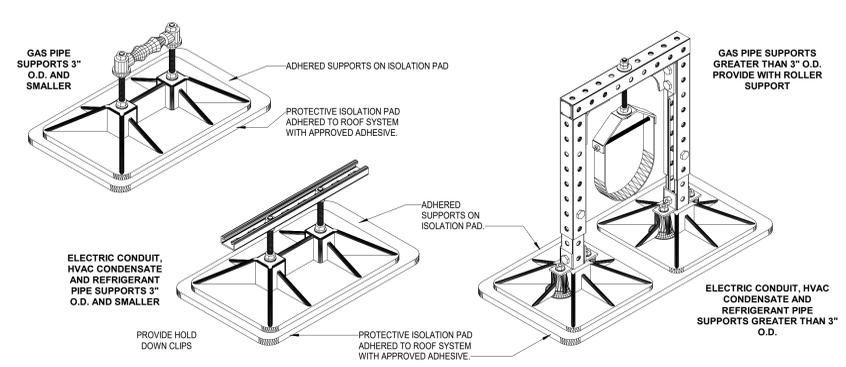
ISSUE: CONSTRUCTION DOCUMENTS  
DATE: 11/12/2025  
PROJECT NO: 23029  
DRAWN BY: JH  
CHECKED BY: JDH

ROOF DETAILS

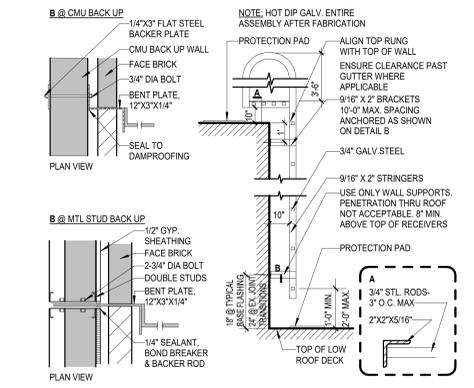
**A610**



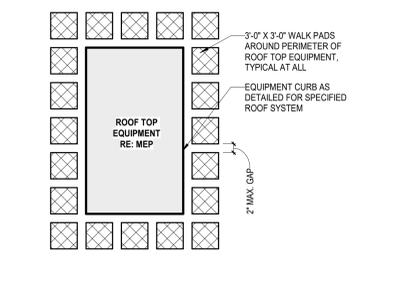
**18 GUTTER JOINT AND SPLASH PANS**  
A610 1 1/2" = 1'-0"



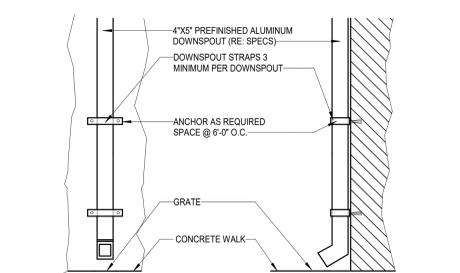
**17 ROOFING - PIPE SUPPORTS**  
A610 1 1/2" = 1'-0"



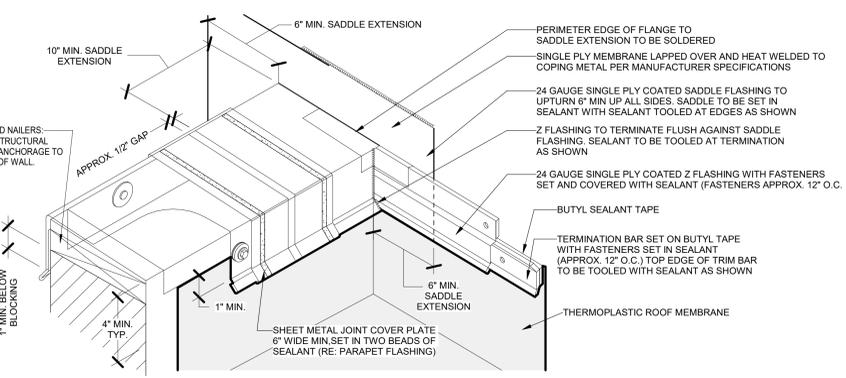
**16 ROOFING - ROOF LADDER**  
A610 1 1/2" = 1'-0"



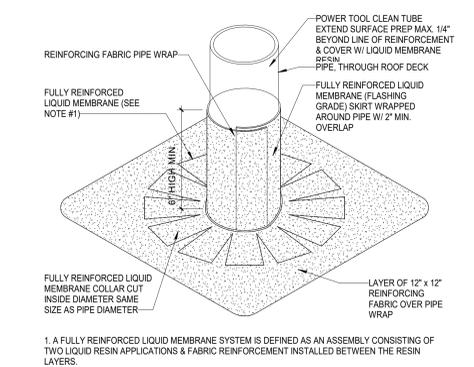
**15 ROOFING - WALK PADS**  
A610 1 1/2" = 1'-0"



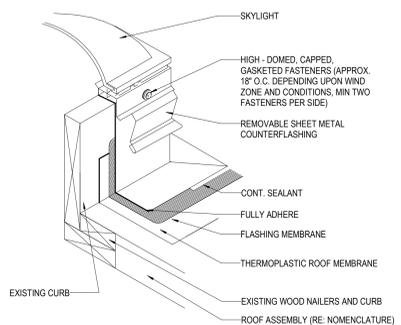
**14 ROOFING - DOWNSPOUT**  
A610 1 1/2" = 1'-0"



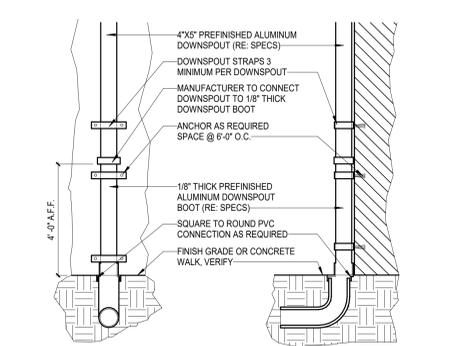
**13 ROOFING (TP) - SADDLE FLASHING**  
A610 1 1/2" = 1'-0"



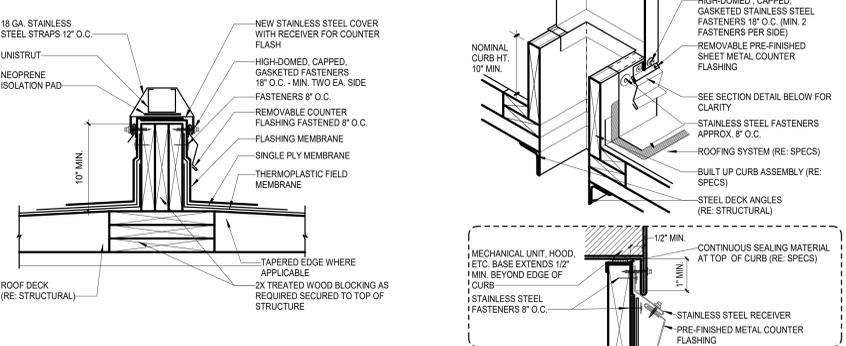
**12 ROOFING (TP) - PIPE PENETRATION**  
A610 1 1/2" = 1'-0"



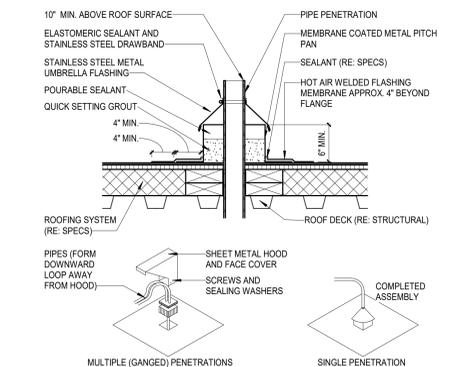
**11 SKYLIGHT CURB**  
A610 12\"/>



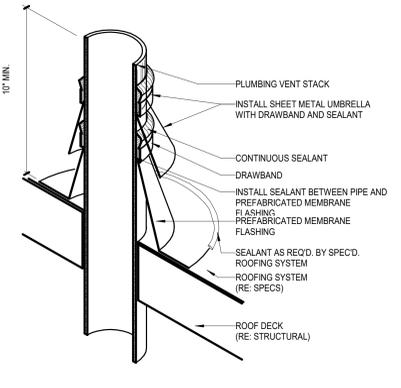
**10 ROOFING - DOWNSPOUT TO BOOT**  
A610 1 1/2" = 1'-0"



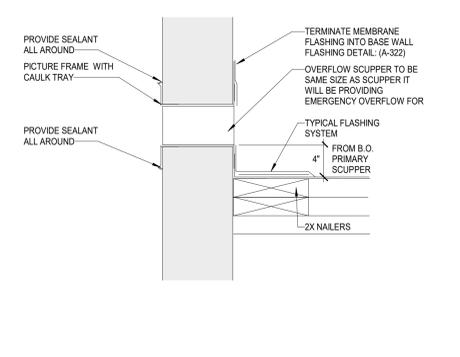
**9 ROOFING (TP) - EQUIP. SUPPORT**  
A610 1 1/2" = 1'-0"



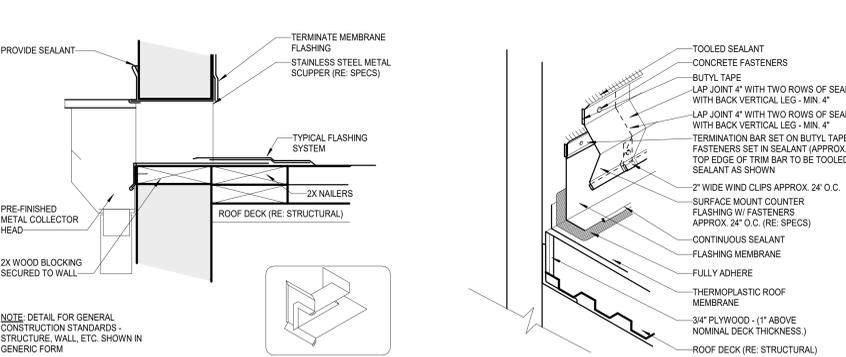
**7 ROOFING (TP) - PITCH PAN**  
A610 1 1/2" = 1'-0"



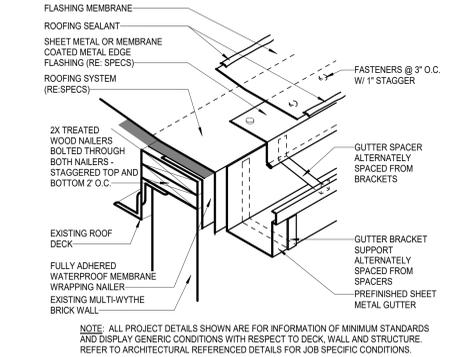
**6 ROOFING (TP) - PLUMBING VENT**  
A610 1 1/2" = 1'-0"



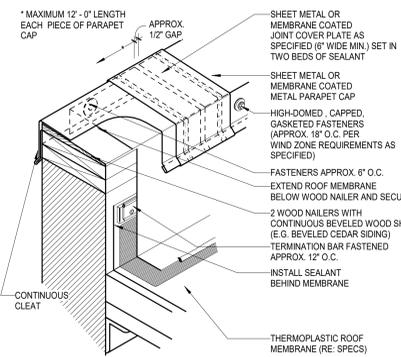
**5 OVERFLOW SCUPPER**  
A610 12\"/>



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



**3 ROOFING (TP) - SURFACE MOUNT**  
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
<p><b>EM-1</b> MFR: TARKETT STYLE: ABRASIVE ACTION II COLOR: WINTER GRAY SIZE: 24" X 24" INSTALL: MONOLITHIC</p> <p><b>PP-1</b> 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</p> <p><b>PP-2</b> 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</p> <p><b>QT-1</b> 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</p> <p><b>SPORTS-1 (GYMNASIUM)</b> MFR: TARKETT SERIES: POLYTURF PLUS PAD AND POUR 7+2 WITH TARKOLAY COLOR: DESERT 1000-0015 THICKNESS: 9MM BASKETBALL LINES: BLACK 0091 VOLLEYBALL LINES: GREEN 0113 PICKLEBALL LINES: WHITE 0090 *SEE FINISH PLAN FOR GAME LINE COLOR PLACEMENT</p> <p><b>CONC/S</b> TEXTURE: SMOOTH SEALER: POLYAMIDE EPOXY, CLEAR FINISH: LOW GLOSS *CLEAN, PREP, REPAIR AND PROTECT EXISTING SLAB AS NEEDED</p> <p><b>CONC/P</b> TEXTURE: EXISTING PAINT: TBO SEALER: WATER BASED FINISH: LOW GLOSS *CLEAN, PREP, REPAIR AND PROTECT EXISTING SLAB AS NEEDED</p>	<p><b>RES-1</b> MFR: TARKETT STYLE: VENTED COVE COLOR: BLACK SIZE: 4" H *PRE-FORMED CORNERS</p> <p><b>PP-1 BASE</b> MFR: CROSSVILLE STYLE: OWEN STONE COVE COLOR: SABLE SIZE: 6" X 12" GROUT JOINT: 3MM EPOXY GROUT: MAPEI GRAY</p> <p><b>QT-1 BASE</b> MFR: DAL TILE STYLE: QUARRY TEXTURES COVE COLOR: ASHEN GRAY SIZE: 6" X 6" GROUT JOINT: 3/8" EPOXY GROUT: MAPEI DRIFTWOOD</p>	<p><b>P-1 (FIELD)</b> MFR: SHERWIN WILLIAMS COLOR: DRIFT OF MIST SW 238-C2 FINISH: VARIES</p> <p><b>P-2 (EXPOSED TRUSSES, MECHANICAL SYSTEMS, RAILINGS AND EXPOSED LEDGES)</b> MFR: SHERWIN WILLIAMS COLOR: IRON ORE SW 251-C7 FINISH: FLAT</p> <p><b>P-3 (GWB CEILINGS/SOFFITS)</b> MFR: SHERWIN WILLIAMS COLOR: EXTRA WHITE SW 257-C1 FINISH: FLAT</p> <p><b>P-4 (GYMNASIUM EXPOSED DECKING, EXPOSED FIRE PROTECTION AND CONDUIT)</b> MFR: SHERWIN WILLIAMS COLOR: ROOKWOOD CLAY SW 2823 FINISH: FLAT</p> <p><b>P-5 (HM DOORS &amp; FRAMES, GYMNASIUM ACCENT)</b> MFR: SHERWIN WILLIAMS COLOR: ANONYMOUS SW 245-C5 FINISH: SEMI-GLOSS</p> <p><b>CWT-1 (TOILETS 108, 109, 110)</b> 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</p>	<p><b>PLAM-1 (CABINETS, SHELVES &amp; SKIRTS)</b> MFR: EGGER PATTERN: PARONA WALNUT FINISH: PREMIUM</p> <p><b>SS-1 (COUNTER TOPS)</b> MFR: CORIAN PATTERN: EVEREST FINISH: PREMIUM THICKNESS: 3/4" EDGE: EAISED</p> <p><b>TOILET PARTITIONS</b></p> <p><b>PCS-1</b> MFR: ASI SERIES: INTEGRATED PRIVACY COLOR: SELECTED FROM MFR. FULL RANGE HARDWARE: STAINLESS</p> <p><b>WALL PADDING</b></p> <p><b>WP-1 (GYMNASIUM)</b> MFR: PORTER ATHLETIC SERIES: CLASS A FLAME RETARDANT WALL PADS COLOR: SELECTED FROM MFR. FULL RANGE</p>

## 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	GYPSON WALL BOARD/PAINT
PLAM	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 EGG-SHELL 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 AND 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 BLENCHES, 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.

CRAIG GAULDEN DAVIS **PBK**

19 Washington Park  
Greenville, SC 29601  
Phone 864.242.0761  
Fax 864.501.9945  
E-mail cgd@gdarch.com

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RENOVATION

71 PENLAND ST. CANTON, NC 28716

DATE	MARK	DESCRIPTION

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DRAWN BY: MQS  
CHECKED BY: JDH

FINISH SCHEDULE  
LEGEND AND NOTES

A700



CONSULTANT

TOWN OF CANTON

ARMORY COMMUNITY CENTER RENOVATION

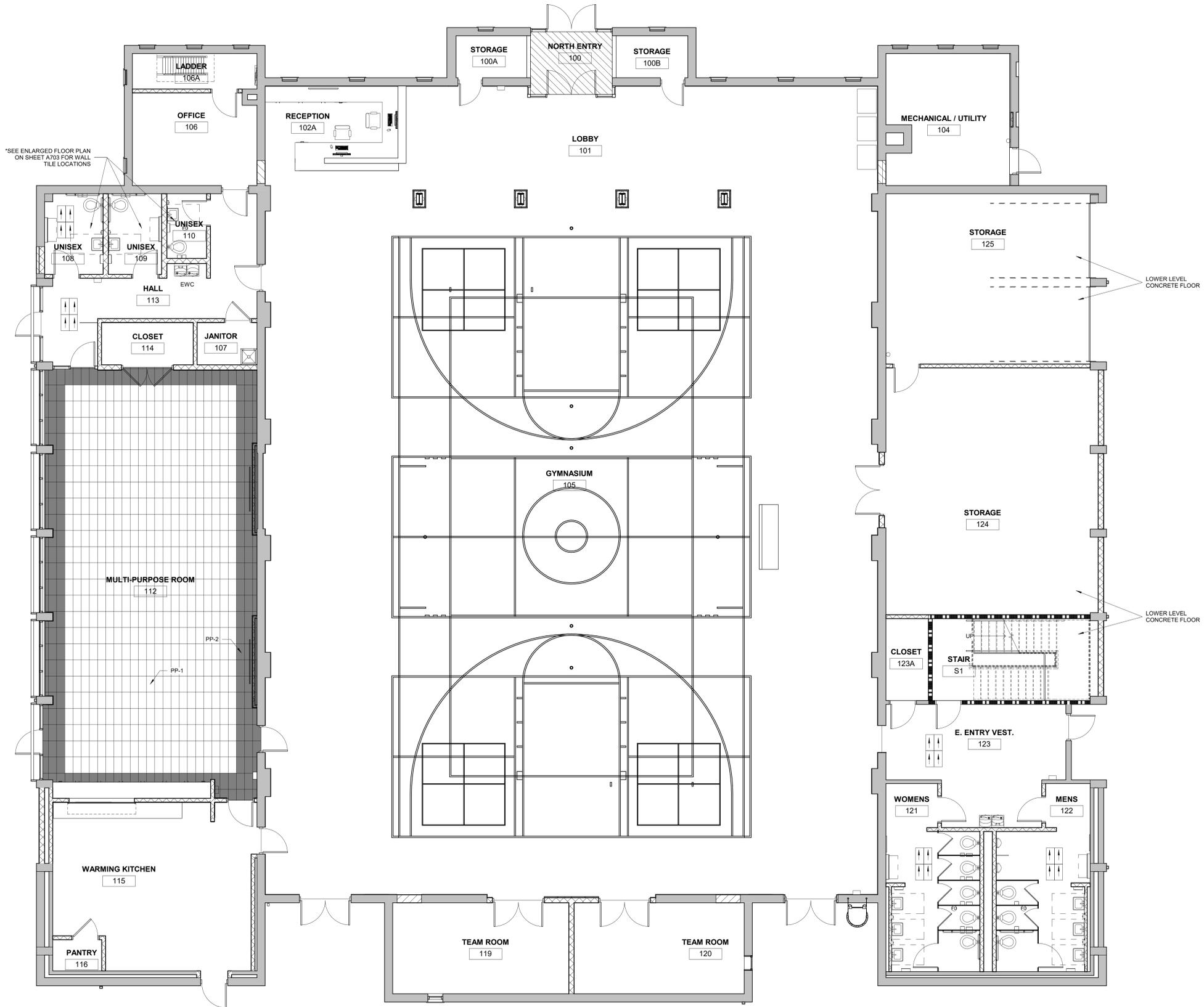
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MAIN LEVEL FINISH PLAN

**A701**



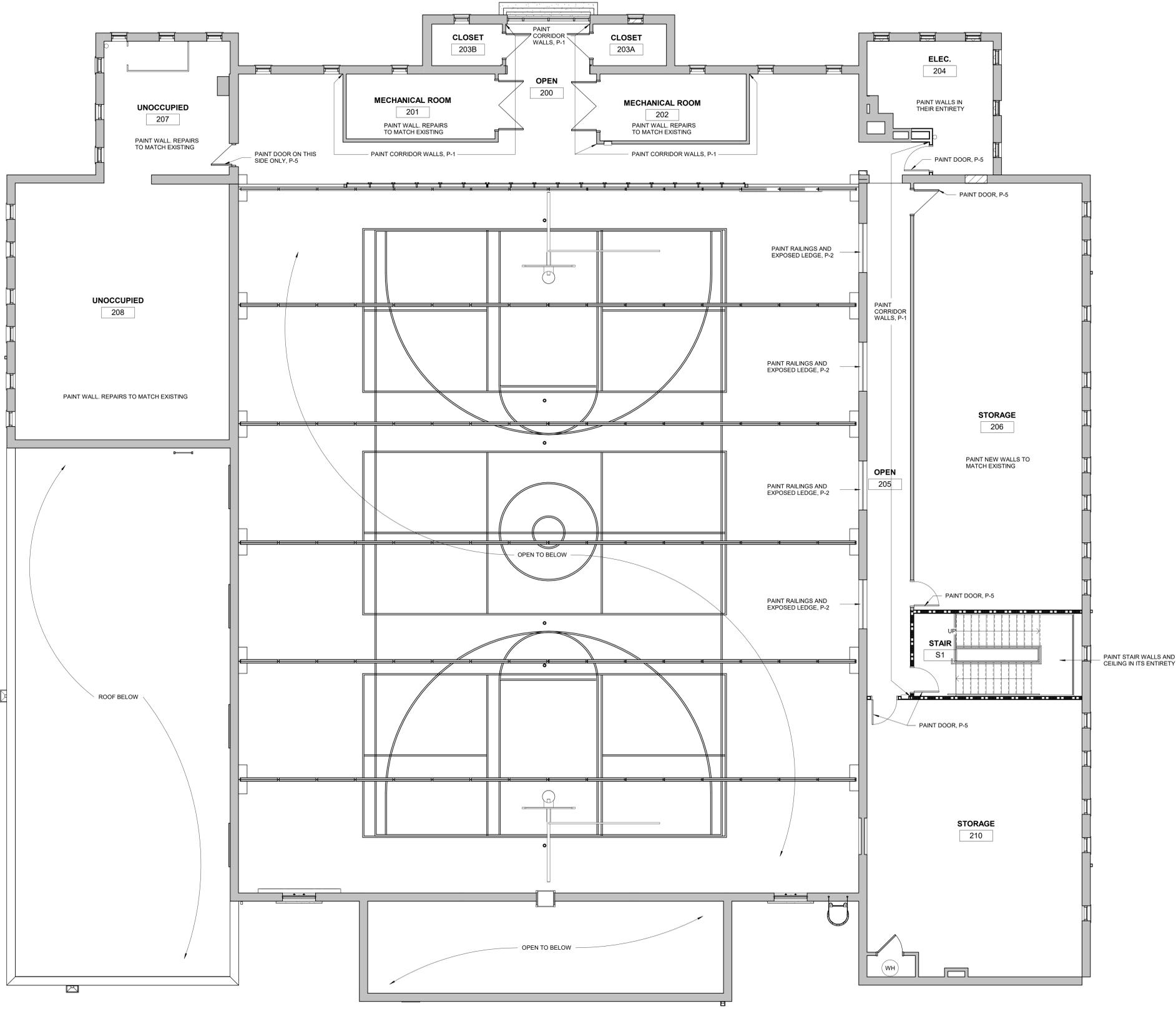
\*SEE ENLARGED FLOOR PLAN ON SHEET A703 FOR WALL TILE LOCATIONS

LOWER LEVEL CONCRETE FLOOR

LOWER LEVEL CONCRETE FLOOR

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





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



**CRAIG GAULDEN DAVIS PBK**

19 Washington Park  
Greenville, SC 29601  
Phone 864.242.0761  
Fax 864.501.9945  
Email cgd@cgdarch.com

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UPPER LEVEL FINISH PLAN

**A702**

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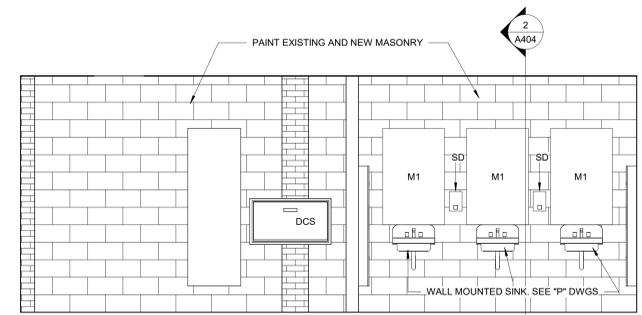
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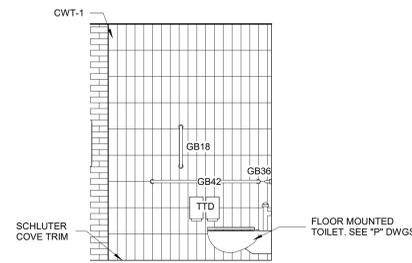
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INTERIOR ELEVATIONS

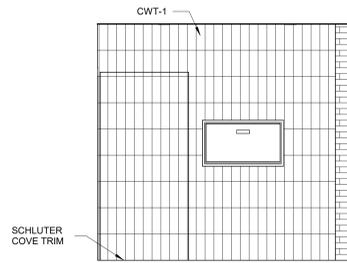
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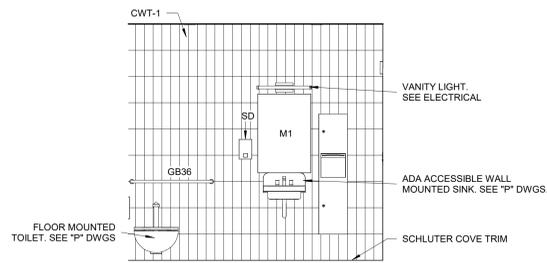
**3 E. ENTRY RESTROOMS - ELEV. A TYP.**  
A703 3/8" = 1'-0"



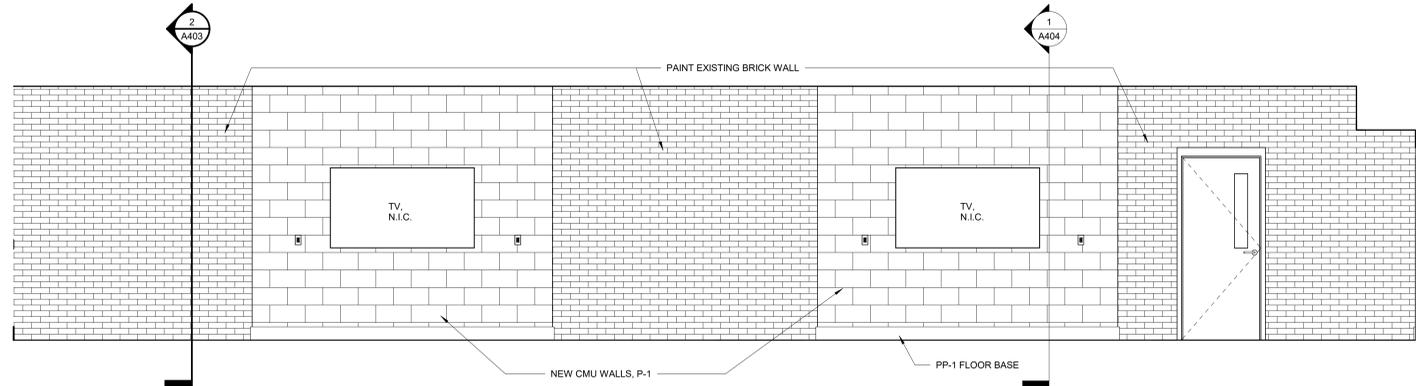
**2 UNISEX TLT 108,109,110 - ELEV. C TYP.**  
A703 3/8" = 1'-0"



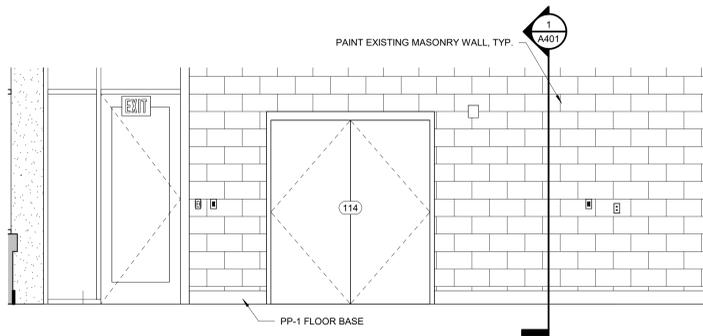
**12 UNISEX TLT 108,109,110- ELEV. B TYP.**  
A703 3/8" = 1'-0"



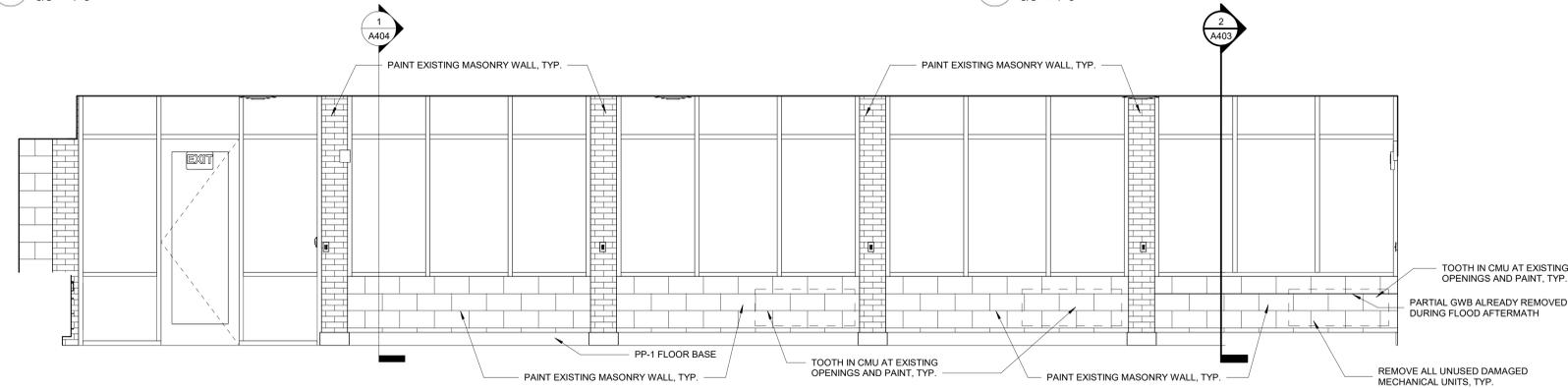
**4 UNISEX TLT 108,109,110 - ELEV. A TYP.**  
A703 3/8" = 1'-0"



**7 MULTI-PURPOSE ROOM - EAST**  
A703 3/8" = 1'-0"



**6 MULTI-PURPOSE ROOM - NORTH**  
A703 3/8" = 1'-0"



**9 MULTI-PURPOSE ROOM - WEST**  
A703 3/8" = 1'-0"

**ACCESSORY LEGEND**

MB1	4' x 6' MARKER BOARD
MB2	4' x 8' MARKER BOARD
TS1	4' x 6' TACK BOARD
PB1	4'-1" x 5'-7" PROMETHEAN BOARD
PS1	5' WIDE PROJECTION SCREEN
PS2	8' WIDE PROJECTION SCREEN
P1	OVERHEAD PROJECTOR
M1	24" x 36" MIRROR
M2	24" x 48" MIRROR
CH	COAT HOOK

**TOILET ACCESSORY LEGEND**

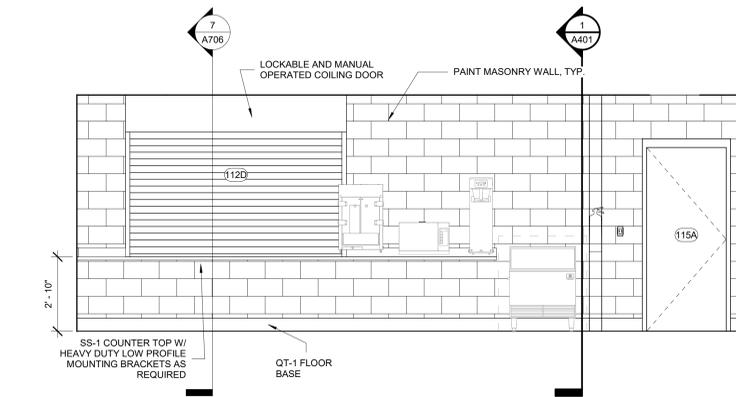
PTD	PAPER TOWEL DISPENSER
T1D	TOILET TISSUE DISPENSER
GB42	42" GRAB BAR
GB36	36" GRAB BAR
GB18	18" GRAB BAR (VERTICAL MOUNT)
M1	24" x 36" MIRROR
M2	24" x 48" MIRROR
CH	COAT HOOK
MOP	MOP RACK
SND	SANITARY NAPKIN DISPOSAL UNIT
SD	AUTOMATIC SOAP DISPENSER
PTDW	COMBINATION PAPER TOWEL DISPENSER & WASTE RECEPTACLE
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.



**5 KITCHEN - ELEV. A**  
A703 3/8" = 1'-0"

7

6

5

4

3

2

1



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ARMORY COMMUNITY CENTER RENOVATION

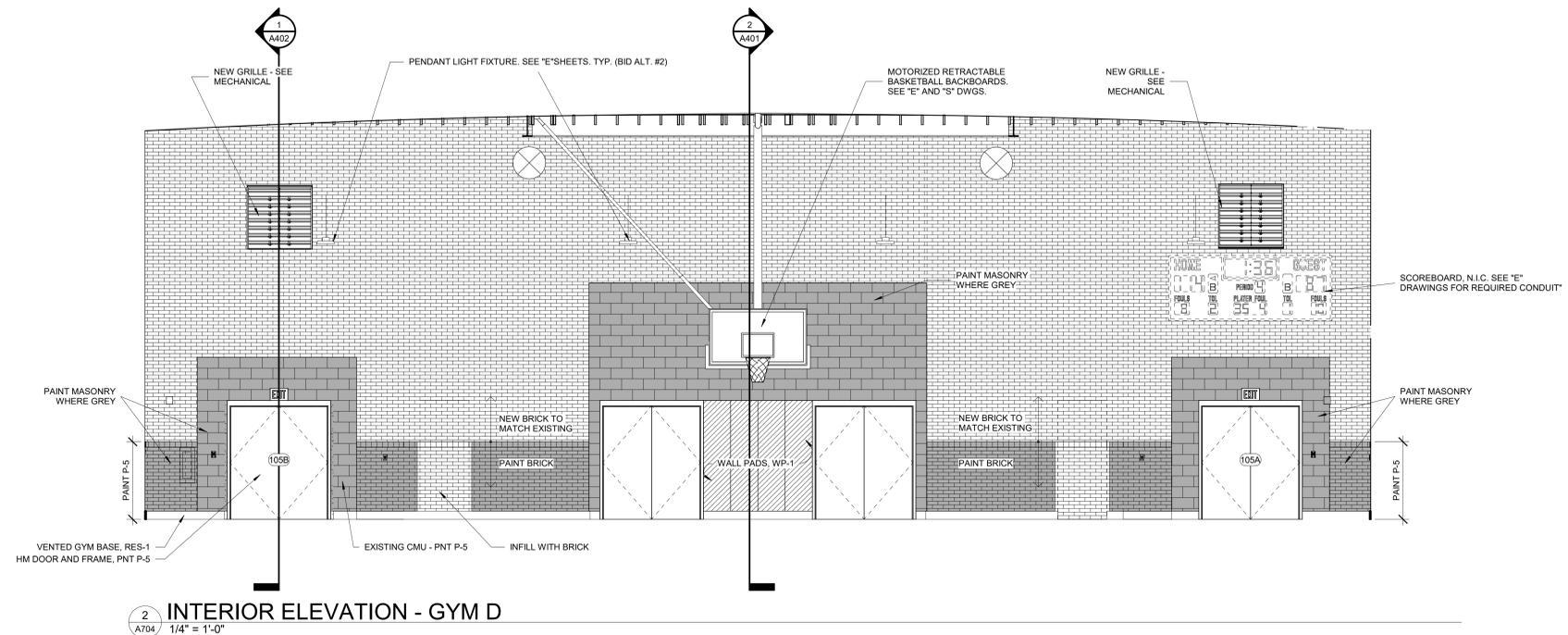
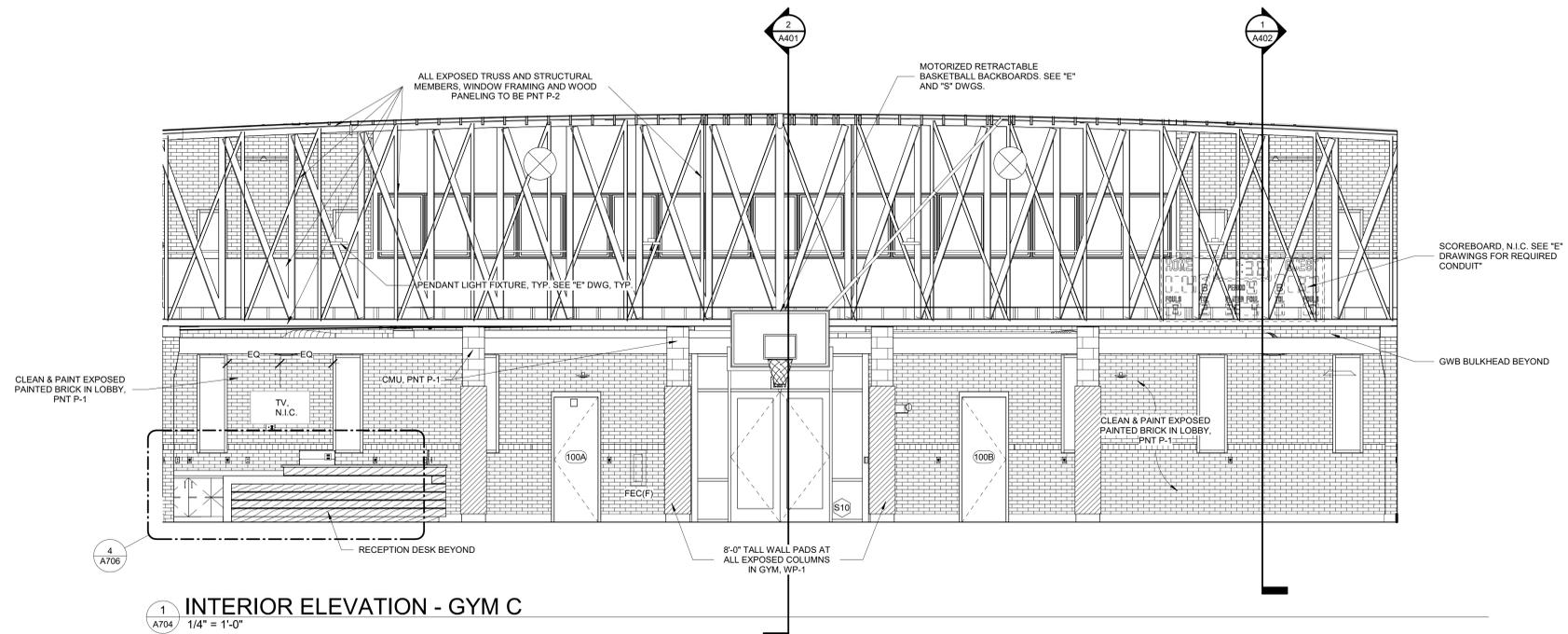
71 PENLAND ST. CANTON, NC 28716

DATE	MARK	DESCRIPTION

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

INTERIOR ELEVATIONS - GYM

**A704**





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**ARMORY COMMUNITY CENTER RENOVATION**

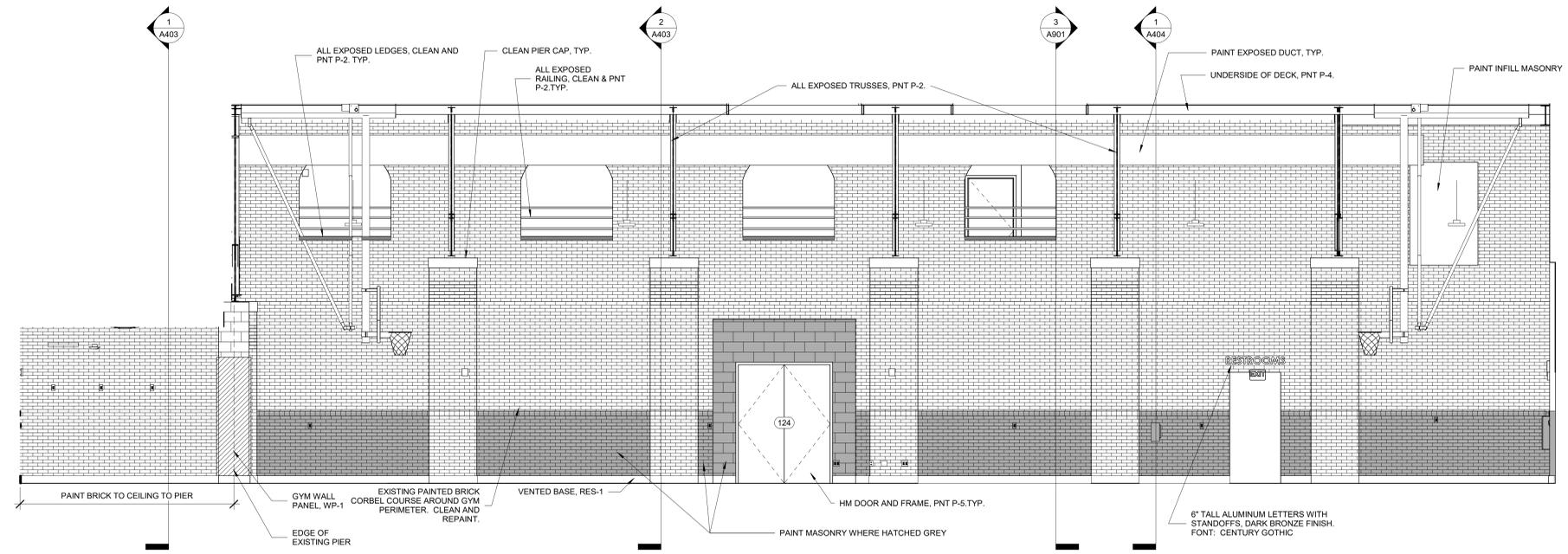
71 PENLAND ST. CANTON, NC 28716

DATE	MARK	DESCRIPTION

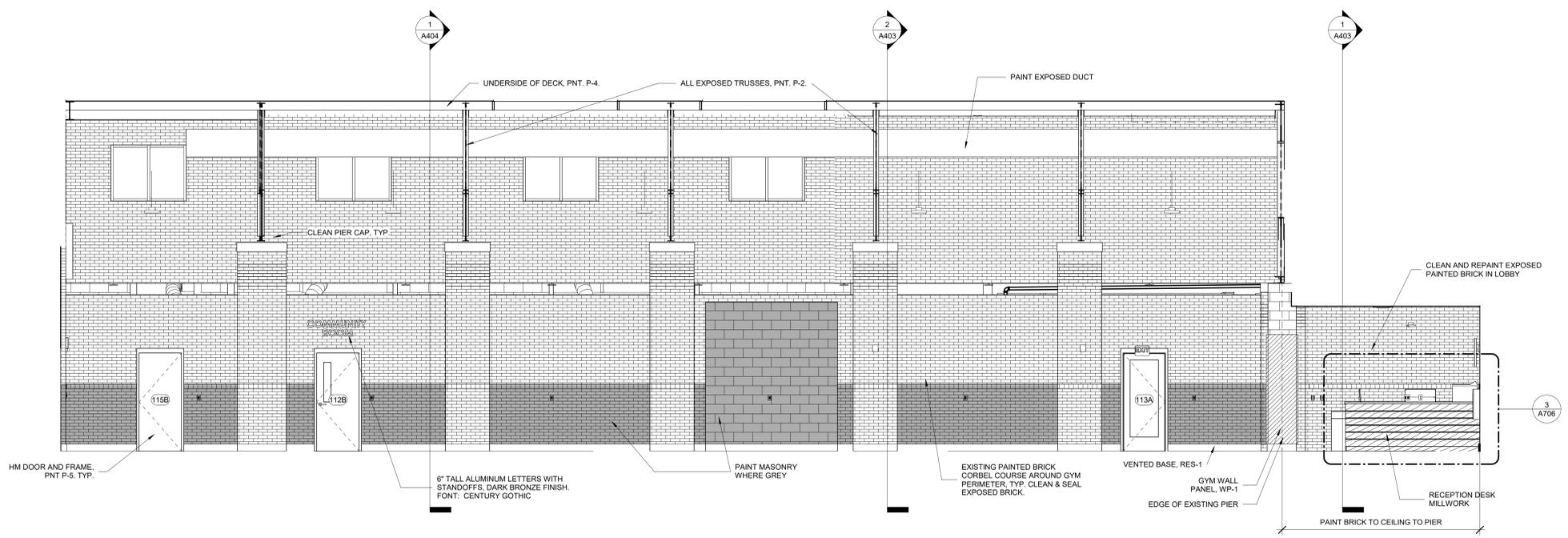
ISSUE: CONSTRUCTION DOCUMENTS  
DATE: 11/12/2025  
PROJECT NO: 23029  
DRAWN BY: Author  
CHECKED BY: JDH

INTERIOR ELEVATIONS - GYM

**A705**



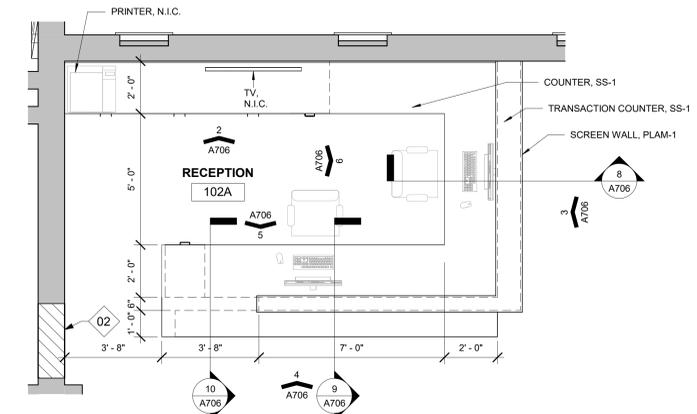
**3 INTERIOR ELEVATION - GYM A**  
A705 1/4" = 1'-0"



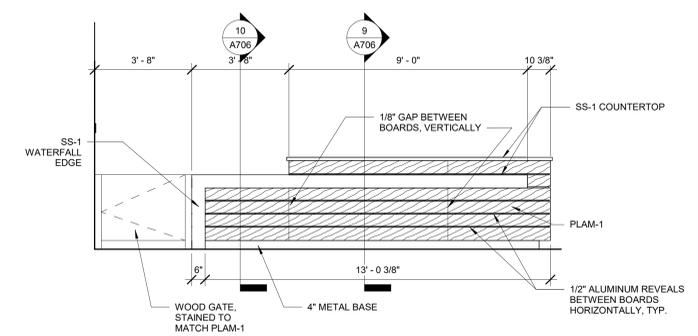
**4 INTERIOR ELEVATION - GYM B**  
A705 1/4" = 1'-0"

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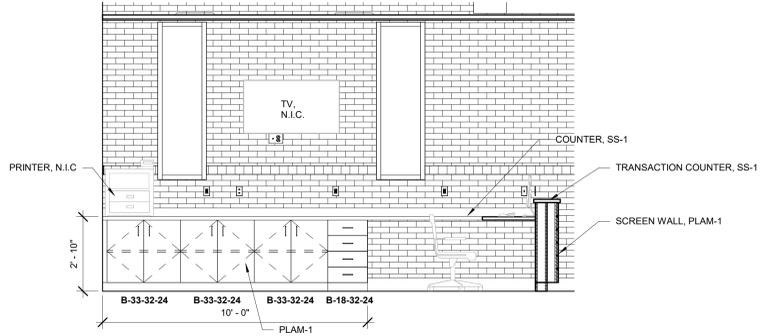
7 6 5 4 3 2 1



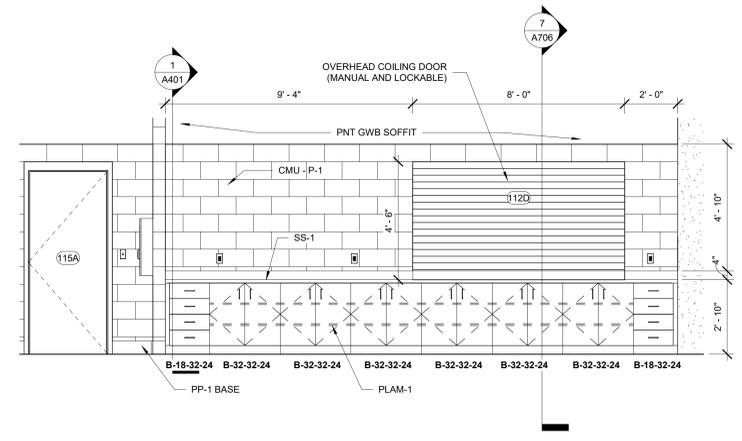
**1 ENLARGED PLAN - RECEPTION AREA**  
A706 3/8" = 1'-0"



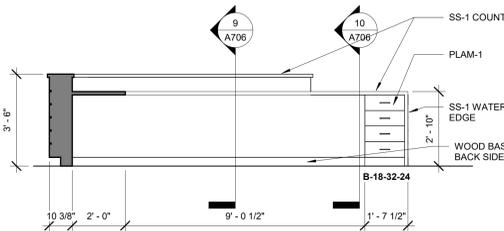
**4 RECEPTION DESK - SOUTH**  
A706 3/8" = 1'-0"



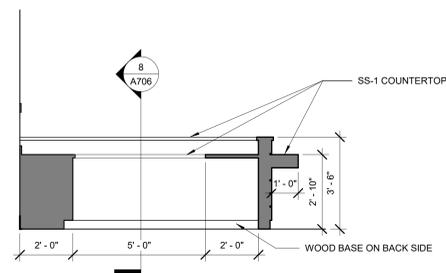
**2 RECEPTION DESK - NORTH (INSIDE)**  
A706 3/8" = 1'-0"



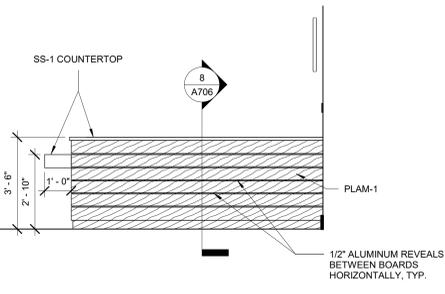
**11 MULTI-PURPOSE ROOM - SOUTH**  
A706 3/8" = 1'-0"



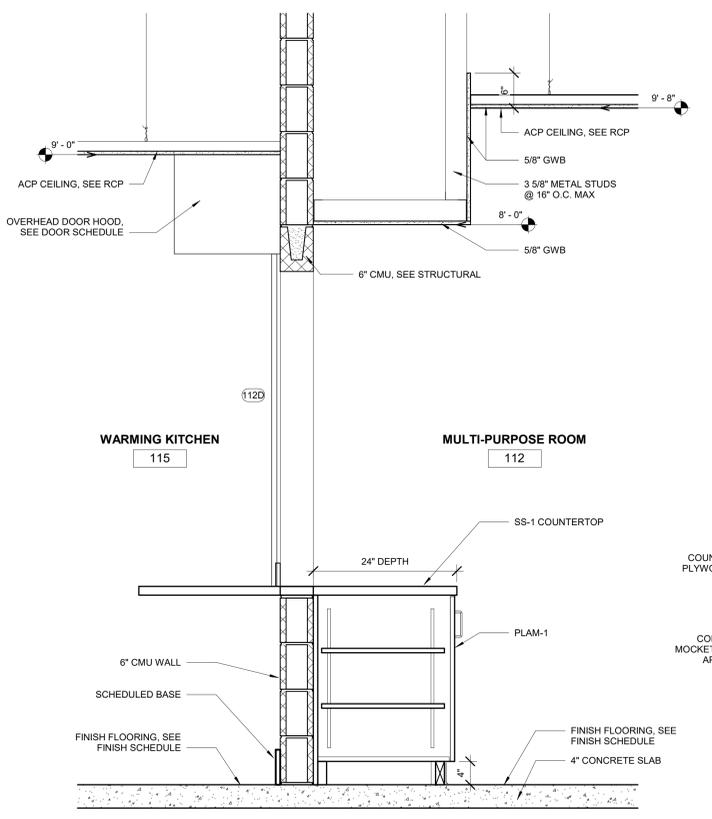
**5 RECEPTION DESK - SOUTH (INSIDE)**  
A706 3/8" = 1'-0"



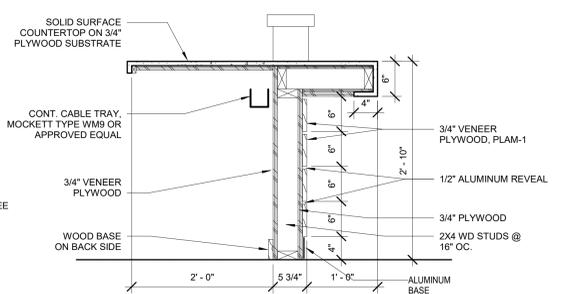
**6 RECEPTION DESK - WEST (INSIDE)**  
A706 3/8" = 1'-0"



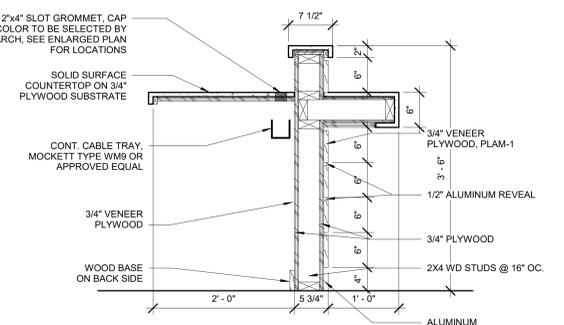
**3 RECEPTION DESK - EAST**  
A706 3/8" = 1'-0"



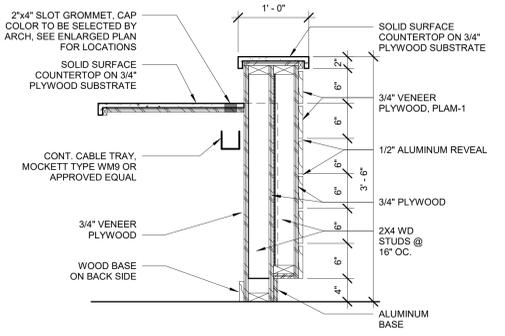
**7 MP COUNTER / COILING DOOR**  
A706 1" = 1'-0"



**10 RECEPTION DESK - SECTION 3**  
A706 1" = 1'-0"



**9 RECEPTION DESK - SECTION 2**  
A706 1" = 1'-0"



**8 RECEPTION DESK - SECTION 1**  
A706 1" = 1'-0"

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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
PROJECT NO.:	23029
DRAWN BY:	JH
CHECKED BY:	JDH

**MAIN LEVEL REFLECTED CEILING PLAN**

**A801**

**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**

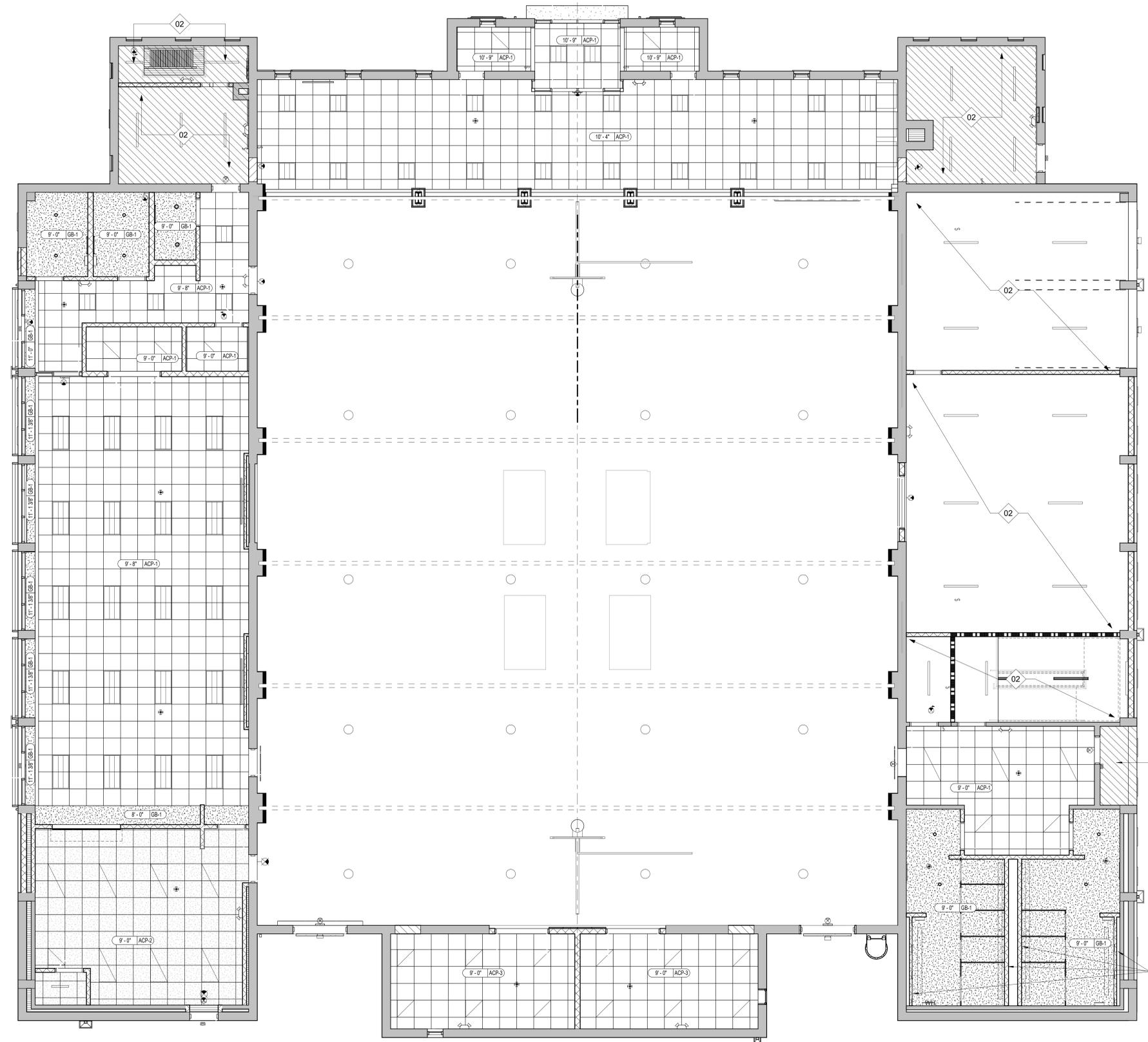
- BID ALTERNATE #2:** 4' X 8' TECTUM CEILING PANEL ATTACHED TO WOOD DECKING ABOVE. PAINTED TO MATCH CEILING. SEE FINISH SHEETS FOR ADDITIONAL INFORMATION.
- EXPOSED DECK, STRUCTURE AND EXPOSED SERVICES PAINTED. SEE FINISH SCHEDULE FOR COLORS AND ADDITIONAL INFO.
- GYM LIGHT. SEE ELECTRICAL DWGS.
- BID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



**1 MAIN LEVEL REFLECTED CEILING PLAN**  
A801 3/16" = 1'-0"



7 6 5 4 3 2 1



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**TOWN OF CANTON**

**ARMORY COMMUNITY CENTER RENOVATION**

71 PENLAND ST. CANTON, NC 28716

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DRAWN BY:	JH
CHECKED BY:	JDH

**UPPER LEVEL REFLECTED CEILING PLAN**

**A802**

**REFLECTED CEILING PLAN LEGEND**

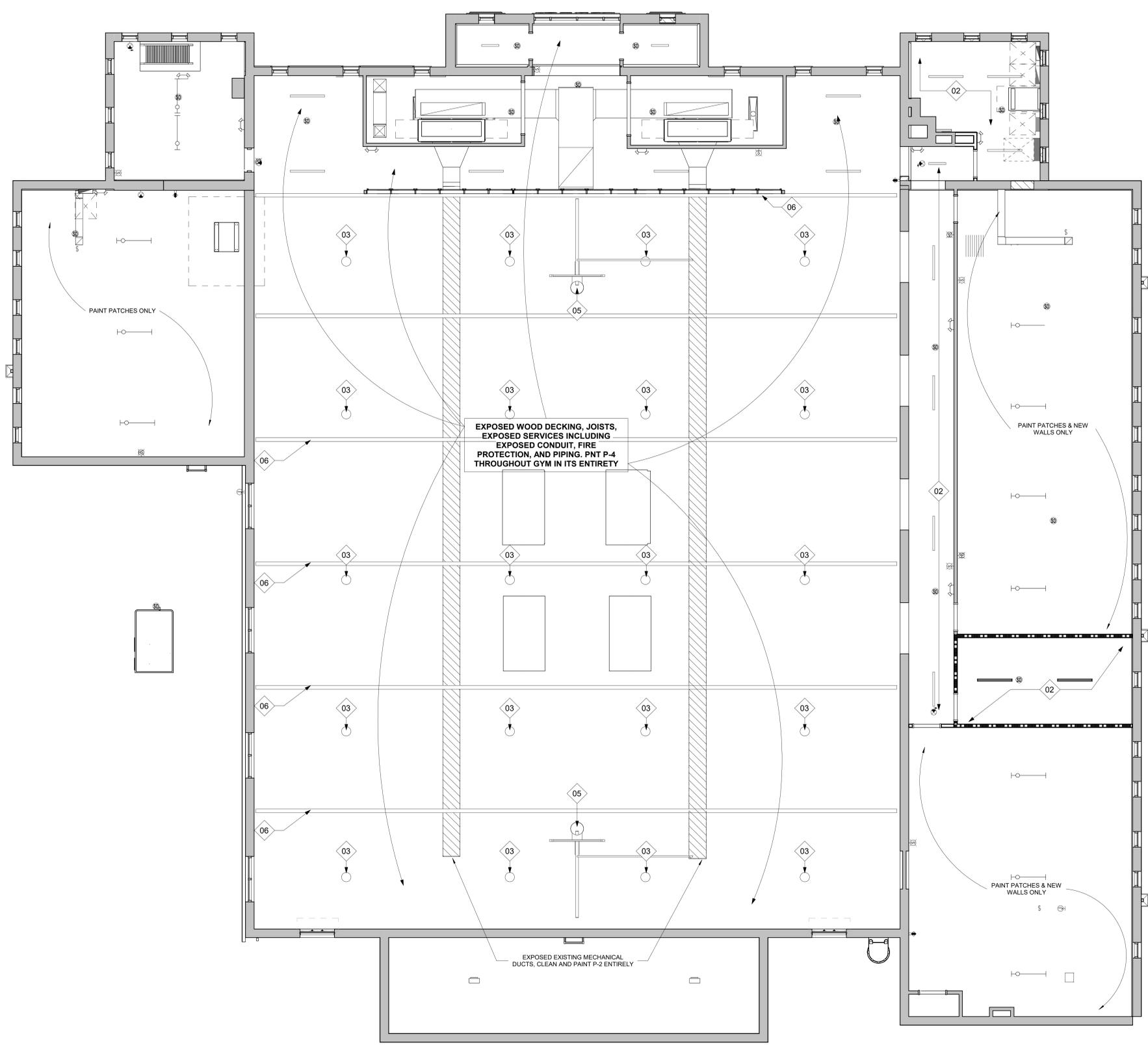
- ACP-1: 2'x2' SUSPENDED ACOUSTICAL PANEL CEILING SYSTEM  
 TILE: MARS HIGH-NRC ACOUSTIC PANELS  
 MFR: USG; TILE: 24" X 24" X 1"; NRC: 0.75; CAC: 30;  
 COLOR: WHITE; EDGE: SLT; LR: 0.80; GRID: DX  
 GRID COLOR: WHITE; GRID PROFILE: D
- ACP-2: 2'x2' SUSPENDED ACOUSTICAL PANEL CEILING SYSTEM  
 TILE: KITCHEN LAY-IN PANELS  
 MFR: USG; TILE: 24" X 24" X 1"; NRC: N/A; CAC: 35  
 COLOR: WHITE; EDGE: SLT; 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**

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

**GENERAL CEILING NOTES**

1. See finish schedule for ceiling material specifications.
2. Unless noted otherwise, suspended grid ceilings shall be centered in all spaces.
3. Unless noted otherwise, all ceiling heights shall be installed 9'-0" above the finished floor elevation.
4. 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.
5. See engineering drawings for mechanical and electrical devices that are within the scope of the project but which are not depicted on these drawings.
6. 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.
7. Contractor shall provide all necessary framing and cross bracing for gypsum ceilings and vertical walls that define a break in a ceiling plane.
8. 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.
9. 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.
10. See A802 Sheet for gym ceiling notes.



EXPOSED WOOD DECKING, JOISTS, EXPOSED SERVICES INCLUDING EXPOSED CONDUIT, FIRE PROTECTION, AND PIPING. PNT P-4 THROUGHOUT GYM IN ITS ENTIRETY

EXPOSED EXISTING MECHANICAL DUCTS. CLEAN AND PAINT P-2 ENTIRELY

PAINT PATCHES ONLY

PAINT PATCHES & NEW WALLS ONLY

PAINT PATCHES & NEW WALLS ONLY

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



7 6 5 4 3 2 1

F  
E  
D  
C  
B  
A



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TOWN OF CANTON

ARMORY COMMUNITY CENTER RENOVATION

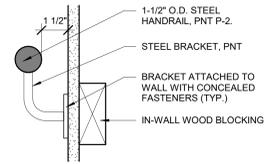
71 PENLAND ST. CANTON, NC 28716

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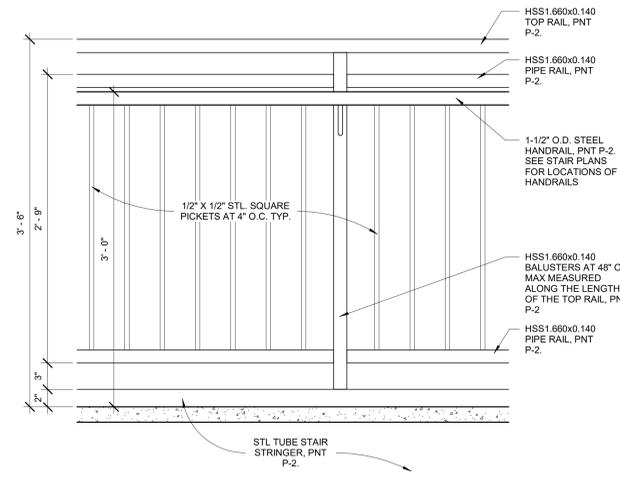
ISSUE: CONSTRUCTION DOCUMENTS
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PROJECT NO: 23029
DRAWN BY: TJW
CHECKED BY: JDH

STAIR DETAILS

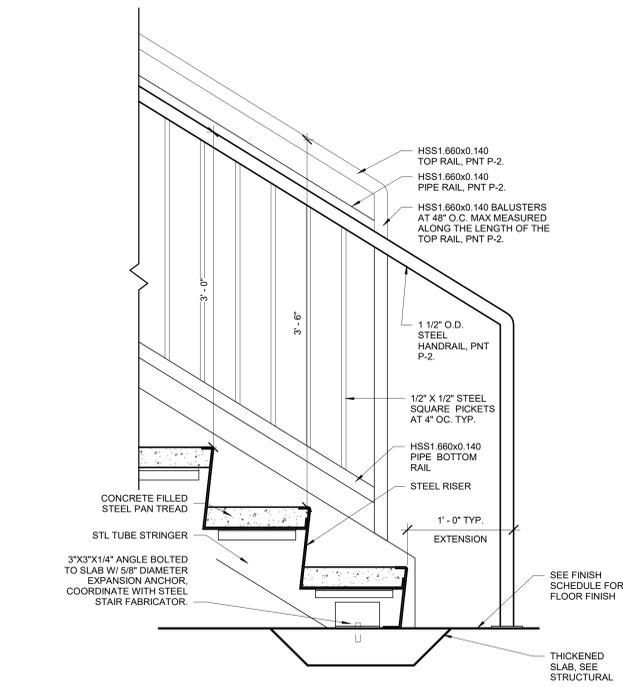
**A901**



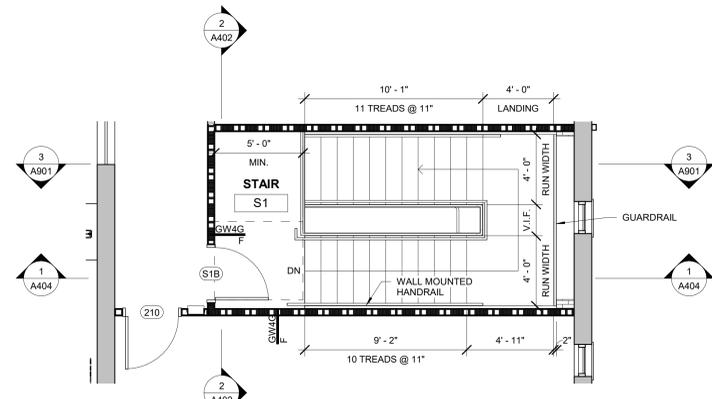
6 TYP. WALL MOUNTED HANDRAIL  
3" = 1'-0"



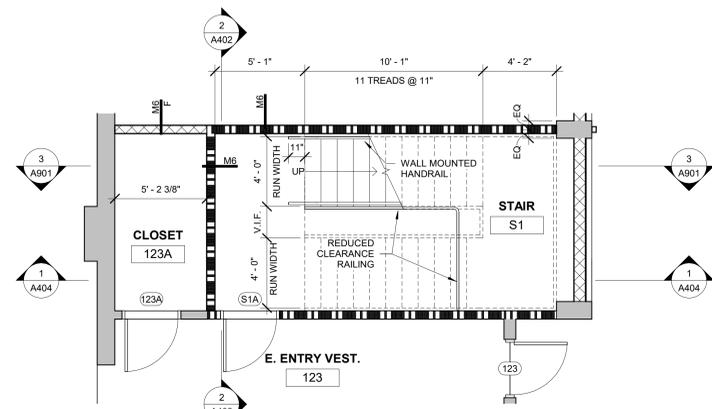
7 VERTICAL PICKETS RAILING ELEV.  
1 1/2" = 1'-0"



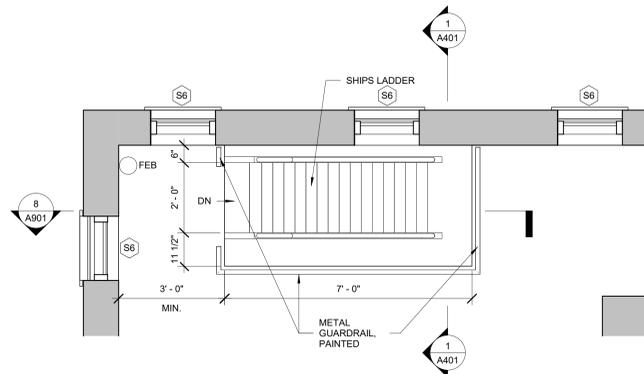
5 STAIR SECTION - VERTICAL PICKETS  
1 1/2" = 1'-0"



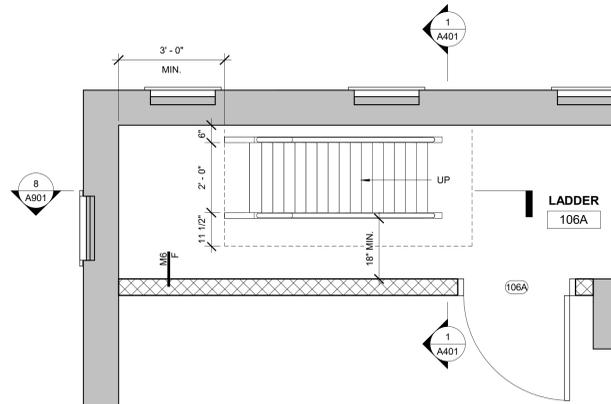
2 STAIR - UPPER LEVEL  
1/4" = 1'-0"



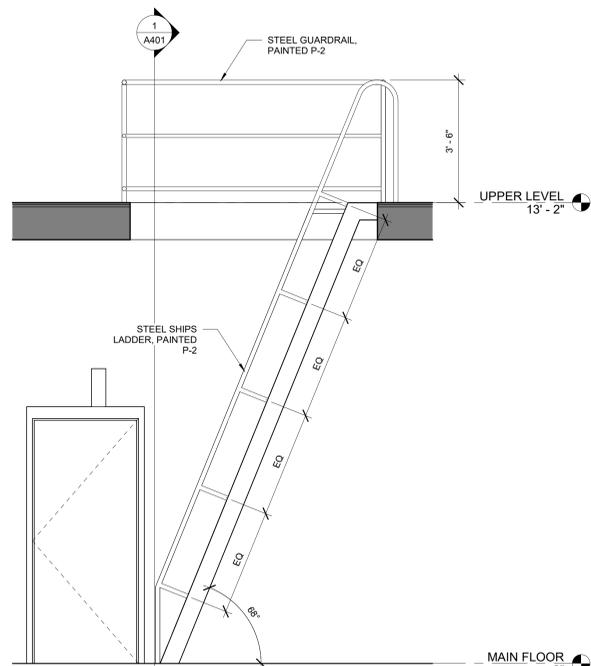
1 STAIR - MAIN LEVEL  
1/4" = 1'-0"



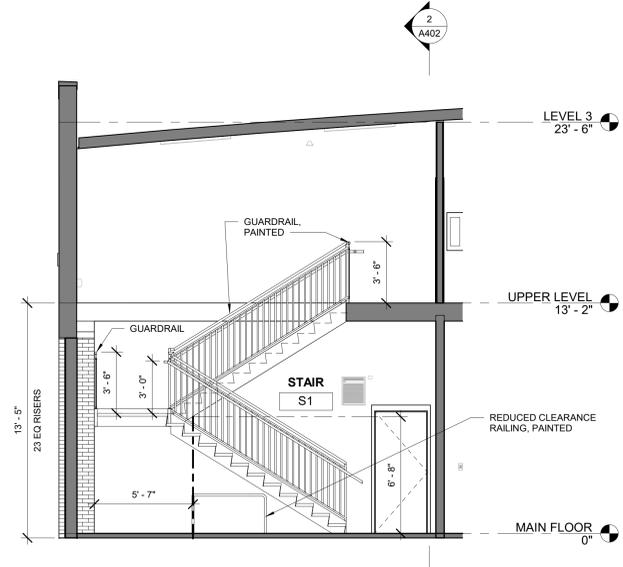
9 SHIPS LADDER (UPPER LEVEL)  
1/2" = 1'-0"



4 SHIPS LADDER (MAIN LEVEL)  
1/2" = 1'-0"



8 SHIPS LADDER DTL  
1/2" = 1'-0"



3 STAIR SECTION  
1/4" = 1'-0"

DRAWING NOTES

- GENERAL REQUIREMENTS**
- 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 OTHER WORK WITH ALL OTHER TRADES AND FOR PERFORMING ALL WORK IN A SAFE AND SATISFACTORY MANNER.
  - ENGINEER/ARCHITECT'S 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.
  - THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO DETAILING, FABRICATION, AND CONSTRUCTION, AND SHALL NOTIFY THE ENGINEER/ARCHITECT OF ANY DISCREPANCIES.
  - FOR ADDITIONAL INFORMATION, SEE THE PROJECT SPECIFICATIONS. IN THE CASE OF A DISCREPANCY, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN UNLESS OTHERWISE IN WRITING BY THE ENGINEER.
  - 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.
  - 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.
  - 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**
- ALL WORK SHALL COMPLY WITH ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", ASTM C94, AND CRSIS "MANUAL OF STANDARD PRACTICE".
  - DESIGN OF ALL FORMWORK AND BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR
  - DEFORMED REINFORCING BARS: ASTM A 615, GRADE 60
  - WELDED STEEL WIRE FABRIC: ASTM A1064, PLAT SHEETS, NOT ROLLS, LAP A MINIMUM OF ONE CROSS WIRE SPACING PLUS 2 INCHES
  - PORTLAND CEMENT: ASTM C 150, TYPE 1
  - AGGREGATE: NORMAL WEIGHT CONCRETE: ASTM C33; LIGHT WEIGHT CONCRETE: ASTM C330
  - FLY ASH: ASTM C 618, TYPE F
  - PROPORTION MIX DESIGNS TO PROVIDE THE FOLLOWING PROPERTIES:
    - UNIT WEIGHT: NORMAL WEIGHT CONCRETE 145 PCF  
LIGHT WEIGHT CONCRETE 115 PCF
    - AIR CONTENT: EXPOSURE CLASS F1, F2, F3 - 6% ±1%  
EXPOSURE CLASS F1, F2, F3 - 6% ±1%
    - 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"            |
- DO NOT ADD WATER TO CONCRETE DURING DELIVERY, AT PROJECT SITE, OR DURING PLACEMENT, UNLESS APPROVED BY ENGINEER.
  - PROTECT CONCRETE FROM PHYSICAL DAMAGE OR REDUCED STRENGTH DUE TO WEATHER EXTREMES DURING MIXING, PLACING, AND CURING. COMPLY WITH ACI 308R 'GUIDE TO HOT WEATHER CONCRETING' AND ACI 308R 'GUIDE TO COLD WEATHER CONCRETING'.
  - 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 50 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 RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN FIVE ARE USED. A COMPOSITE SAMPLE CONSISTS OF FIVE TO SEVEN CYLINDERS, ONE CYLINDER TO BE TESTED AT 1 DAY, 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.
  - SLAB FINISHES: REFER TO THE ARCHITECT FOR FLOOR FINISHES. PROVIDE A TROWELED FINISH FOR FLOOR SURFACES TO RECEIVE FLOOR COVERINGS, PAINT, OR OTHER THIN FILM-FINISH COATINGS. SPECIFIED OVERALL VALUES OF FLATNESS, F1) 3/8; AND LEVELNESS, F1) 2/8; WITH MINIMUM LOCAL VALUES OF FLATNESS, F1) 2/4; AND LEVELNESS, F1) 1/8. NONSLIP PROMIFORM FINISH TO EXTERIOR CONCRETE PLATFORMS, STEPS, AND RAMPS.
  - PROVIDE A 3/4" CHAMFER ON ALL EXPOSED CONCRETE EDGES, U.N.O.
  - FOR SLAB ON GRADE, FORM 1/8" WIDE CONTRACTION JOINTS WITH POWER SAWS WHEN CUTTING ACTION WITH MAX REAR, ARCHED, OR CURVE, AND BEFORE CONCRETE DEVELOPMENT. DOCUMENTS REPRODUCED FROM FULLER GROUP, LLC. DOCUMENTS WITHOUT WRITTEN PERMISSION, WILL BE REJECTED. COMPLIANCE WITH SPECIFIED REQUIREMENTS REMAINS CONTRACTOR'S RESPONSIBILITY.
  - WHERE THE FILL THICKNESS EXCEEDS 1 1/2" ADD FEA GRAVEL TO THE MIX AT A 1:1 RATIO WITH ARDEX K 15.
  - 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 SUBSTANCE THAT MIGHT ACT AS A BOND BREAKER BEFORE PRIMING.
  - APPLY A COMPATIBLE PRIMER, ARDEX P 51 OR MANUFACTURER SPECIFIED EQUIVALENT.
  - MATCH ALL EXISTING SLAB JOINTS.

- REINFORCING STEEL**
- PROVIDE REINFORCING STEEL CONFORMING TO ASTM A706 FOR ALL REINFORCING STEEL REQUIRED TO BE WELDED AND WHERE NOTED ON THESE DRAWINGS.
  - PROVIDE DEFORMED REBAR EMBEDMENT LAP SPICES AND HOOKS AS DETAILED ON DRAWINGS. IF NOT SPECIFIED, FOLLOW ACI 301 STANDARD DETAILING REQUIREMENTS FOR THE APPROPRIATE CONDITIONS WITH CLASS 80 LAPS.
  - REINFORCING STEEL MARKED "CONTINUOUS" SHALL BE LAPPED WITH CLASS "B" LAP SPICE, UNLESS SPECIFICALLY DETAILED OTHERWISE. PROVIDE CONTINUOUS REINFORCEMENT WHERE EVER POSSIBLE. SPICE ONLY AS SHOWN OR APPROVED. STAGGER SPICES WHERE POSSIBLE. USE TENSION CLASS "C" UNLESS NOTED OTHERWISE. DOWN'S SHALL MATCH THE SIZE AND SPACING OF THE WALL OR COLUMN SPECIFIED REINFORCEMENT AND SHALL BE LAPPED WITH TENSION SPICES (CLASS "B") UNLESS NOTED OTHERWISE.
  - HORIZONTAL REINFORCEMENT IN FOOTING 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.I.P. CONCRETE WALL CORNERS. PROVIDE LAP SPICES @ 8 TIMES BAR DIAMETER. WHERE PERPENDICULAR WALLS ARE NOT POURED CONTINUOUS, PROVIDE A KEED JOINT WITH CORNER BARS.
  - PROVIDE SPACERS, CHAIRS, BOLTERS, ETC. AS REQUIRED TO ASSEMBLE PLATE, AND SUPPORT ALL REINFORCING IN PLAN.

- STRUCTURAL STEEL**
- COMPLY WITH AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", LATEST EDITION. BOLT CONNECTIONS SHALL COMPLY WITH RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS", LATEST EDITION.
  - STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
    - WIDE FLANGE SHAPES AND CHANNELS - ASTM A992, GRADE 50
    - HSS RECTANGULAR - ASTM A500 GRADE C, Fy=50 KSI
    - HSS ROUND AND STEEL PIPE - ASTM A500 GRADE C, Fy=50 KSI
    - OTHER SHAPES, ANGLES, PLATES, AND BARS - ASTM A36, Fy=36 KSI
    - ANCHOR RODS, BOLTS, NUTS - ASTM F1554 GR. 55.31, UNHARDENED
    - BOLTS, NUTS, AND WASHERS - ASTM A307A, TYPE 1, HIGH STRENGTH HEAVY HEX STEEL STRUCTURAL BOLTS, HEAVY HEX CARBON-STEEL NUTS, AND HARDENED CARBON-STEEL WASHERS, UNCOATED.
    - PRIMER: LEAD-FREE AND CHROMATE-FREE, NONASPHALTIC, RUST-INHIBITING PRIMER.
    - GROUT: ASTM C1107, NONMETALLIC, SHRINKAGE RESISTANT, PREMIXED, MINIMUM COMPRESSIVE STRENGTH = 5000 PSI.
    - FABRICATE STRUCTURAL STEEL ACCORDING TO AISC SPECIFICATIONS AND TOLERANCE LIMITS OF AISC'S "CODE OF STANDARD PRACTICE FOR STRUCTURAL STEEL BUILDINGS AND BRIDGES" FOR STRUCTURAL STEEL.
    - 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 OR TO BE FIELD WELDED.
    - ALL STEEL EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED UNLESS NOTED OTHERWISE. REMOVE ALL MOISTURE AND PERMANENTLY SEAL VENT AND DRAIN HOLES OF GALVANIZED ASSEMBLIES PRIOR TO TRANSPORTATION TO THE JOB SITE. GALVANIZED FINISHES SHOULD BE TOUCHED UP OR REPAIRED WITH ZINC RICH PAINT AFTER WELDING.
    - ERECT STRUCTURAL STEEL ACCORDING TO AISC SPECIFICATIONS AND WITH ERECTION TOLERANCES OF AISC'S "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
    - SET BASE 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.
    - ALL DECK EDGES SHALL HAVE CONTINUOUS SUPPORT. PROVIDE L4x4x1/4 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.
    - PROVIDE 3" CONCRETE COVER OVER ALL STEEL BELOW GRADE.

- ROUGH CARPENTRY**
- DRESSED LUMBER: 54% 19 PERCENT MAXIMUM MOISTURE CONTENT FOR 2-INCH THICKNESS OR LESS, MARKED WITH GRADE STAMP OF INSPECTION AGENCY.
  - PRESERVATIVE-TREATED MATERIALS: AWPA C2 LUMBER AND AWPA C9 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 TEMS AND THE FOLLOWING:
    - WOOD MEMBERS IN CONTACT WITH ROOFING, FLASHING, VAPOR BARRIERS, AND WATERPROOFING.
    - CONCEALED MEMBERS IN CONTACT WITH MASONRY OR CONCRETE.
    - CONCEALED BOARDS: 19 PERCENT MAXIMUM MOISTURE CONTENT.
    - JOISTS, BEAMS, HEADERS: SOUTHERN PINE, NO. 2.
    - RAFTERS: SOUTHERN PINE, NO. 2.
    - STUDS: SPRUCE-PINE-FIR NO.2, SPF OR SRF(S) NOT ALLOWED.
    - LVL, ALL LVL MEMBERS TO BE 1 7/8" WIDE EACH SINGLE MEMBER AND Fy=2000 PSI E=1.1MPSI
    - PSL, ALL PSL MEMBERS TO HAVE MINIMUM Fy=2,000 PSI E=2.0 MPSI.
    - MISCELLANEOUS LUMBER: NO. 2 OR STANDARD GRADE OF ANY SPECIES FOR NAILERS, BLOCKING, AND SIMILAR MEMBERS.
    - ALL KING STUDS SHALL BE CONTINUOUS TO SLAB ON GRADE, TYP.
    - WOOD-BASED STRUCTURAL-USE PANELS: DOC PS 2 PROVIDE PLYWOOD COMPLYING WITH DOC PS 1, WHERE PLYWOOD IS INDICATED.
      - FACTORY MARK PANELS EVIDENCING COMPLIANCE WITH GRADE REQUIREMENTS.
      - PANELS WITH SPAN RATINGS REQUIRED BY SUPPORT SPACING INDICATED.
      - WALL SHEATHING: 1/2" NOMINAL, 1532' APA RATED SHEATHING (PLYWOOD OR OSB), 32/16, EXPOSURE 1, NOMINAL 4x8; BLOCK ALL PANEL EDGES.
      - FLOOR SHEATHING: 3/4" NOMINAL T&G, 2332' APA-RATED PLYWOOD SHEATHING, 48/24 EXPOSURE 1, NOMINAL 4x8; TONGUE AND GROOVE; INSTALL SHEATHING WITH FACE GRAIN ACROSS SUPPORTS. ATTACH SHEATHING WITH 10d NAILS AT 6" O.C. PANEL EDGES AND @ 12" O.C. AT INTERMEDIATE SUPPORTS.
      - ROOF SHEATHING: 5/8" NOMINAL, 1932' APA RATED SHEATHING (PLYWOOD OR OSB), 40/20, EXPOSURE 1, NOMINAL 4x8; INSTALL SHEATHING WITH FACE GRAIN ACROSS SUPPORTS. ATTACH SHEATHING WITH 10d NAILS AT 6" O.C. ALONG PANEL EDGES AND AT 12" O.C. AT INTERMEDIATE SUPPORTS. AT UNBLOCKED PANEL EDGES PROVIDE H-CUPS AT MID SPAN OF PANELS.
  - 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.
  - PROVIDE A MINIMUM OF 3" BEARING AT EACH END OF WOOD HEADERS U.N.O.
  - WHEN NAILING IS NOT SHOWN, NAIL PER TABLE 2304.10.1 OF THE INTERNATIONAL BUILDING CODE.
  - COORDINATE LAYOUT OF FRAMING MEMBERS WITH ALL TRADES TO ENSURE THAT JOISTS, RAFTERS AND PLATES ARE NOT EXTENSIVELY NOTCHED, CUT OR BORED, REFER TO INTERNATIONAL RESIDENTIAL CODE, ICC-600 AND ATIC MANUAL FOR ALLOWABLE CUTTING, NOTCHING, AND BORING OF FRAMING MEMBERS. TRUSSES SHALL NOT BE CUT, NOTCHED, OR BORED WITHOUT ENGINEER'S APPROVAL.
  - ALL FIRE RETARDANT TREATED WOOD SHALL HAVE HOT-DIPPED ZINC GALVANIZED HARDWARE.

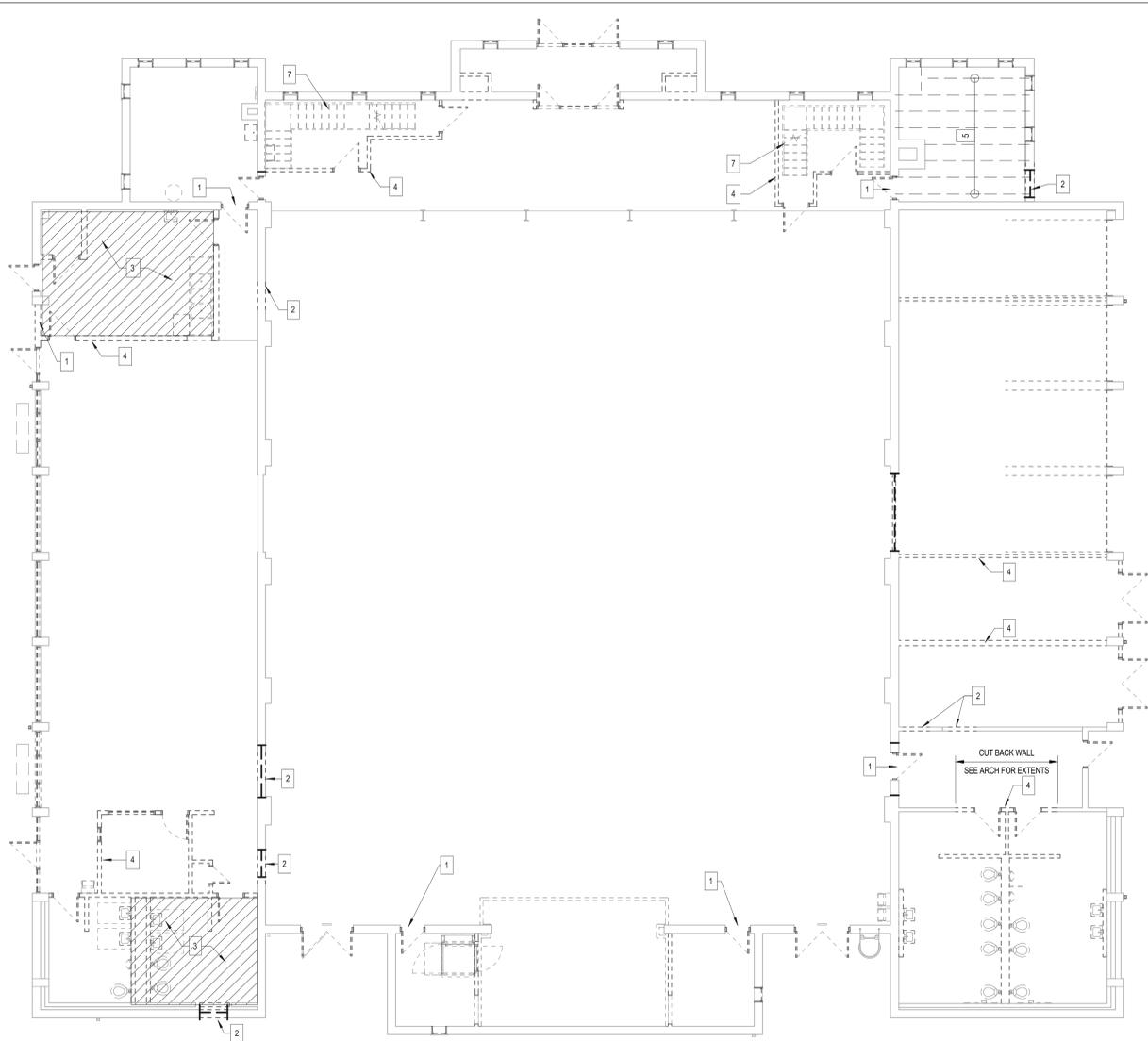
- POST-INSTALLED ANCHORS AND REINFORCING DOWNELS (REBAR)**
- POST-INSTALLED ANCHORS SHALL ONLY BE USED WHEN SPECIFIED ON DRAWINGS. UNLESS APPROVED OTHERWISE IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD, HOLES SHALL BE PREPARED AND ANCHORS SHALL BE INSTALLED FOLLOWING THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
  - 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 THE MANUFACTURER OR AS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
  - INSTALL ANCHORS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. AS INCLUDED IN THE ANCHOR PACKAGING, THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ON-SITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHOR 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.
  - 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.
  - EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY COMPLY 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, XRAY, CHEMICALS OR OTHER MEANS.
- ANCHORAGE TO CONCRETE**
- ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
    - SIMPSON STRONG-TIE SET-3G WITH ASTM F1554 GR.55 THREADED ROD/ICC ESR-2508
    - HLTI HIT-HY 200 SAFE SET SYSTEM WITH HAS-E THREADED ROD OR THE HLTI HIT-Z-ROD (ICC ESR-3187)
    - HLTI HIT-RE 500 V3 SAFE SET SYSTEM WITH HAS-E THREADED ROD (ICC ESR-3184)
  - MEDIUM DUTY MECHANICAL ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
    - HTLI KWIK HUS EZ AND KWIK HUS EZ+ SCREW ANCHORS (ICC ESR-3027)
    - HTLI KWIK BOLT-1 T2 EXPANSION ANCHORS (ICC ESR-1945)
    - HTLI KWIK BOLT-3 EXPANSION ANCHORS (UNCRACKED CONCRETE ONLY) (ICC ESR-2302)
    - SIMPSON STRONG-TIE STRONG BOLT 2 EXPANSION ANCHOR (ICC ESR-3037)
  - HEAVY DUTY MECHANICAL ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
    - HLTI HDA UNDERCUT ANCHORS (ICC ESR-1546)
    - HLTI HES-3 EXPANSION ANCHORS (ICC ESR-1545)
- REBAR DOWELING INTO CONCRETE**
- ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
    - HLTI HIT-HY 200 SAFE SET SYSTEM WITH CONTINUOUSLY DEFORMED REBAR (ICC ESR-1817)
    - HLTI HIT-HY 500 V3 SAFE SET SYSTEM WITH CONTINUOUSLY DEFORMED REBAR (ICC ESR-3184)
- ANCHORAGE TO SOLID GROUTED MASONRY**
- ADHESIVE ANCHORS USE:
    - HLTI HIT-HY 270 MASONRY ADHESIVE ANCHOURING SYSTEM (ICC ESR-4143)
    - STEEL ANCHOR ELEMENT SHALL BE HLTI HAS-E CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR AS SPECIFIED.
  - MECHANICAL ANCHORS:
    - HTLI KWIK BOLT-3 EXPANSION ANCHORS (ICC ESR-1385)
  - ANCHORAGE TO HOLLOW/MULTI-WYTHE UNGROUTED MASONRY:
    - HLTI HIT-HY 270 MASONRY ADHESIVE ANCHOURING SYSTEM (ICC ESR-4143 & ICC ESR-4144)
    - STEEL ANCHOR ELEMENT SHALL BE HLTI HAS-E CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR.
    - THE APPROPRIATE SIZE SCREEN TUBE SHALL BE USED PER ADHESIVE MANUFACTURER'S RECOMMENDATION
  - MECHANICAL ANCHORS: NONE SPECIFIED.
  - EPOXY ANCHOR EMBEDMENT SCHEDULE (UNLESS NOTED OTHERWISE ON PLANS)
- | ANCHOR DIAMETER (REBAR) | CONCRETE & GROUT FILLER CMU | HOLLOW CMU    | MULTI-WYTHE MASONRY |
|-------------------------|-----------------------------|---------------|---------------------|
| 1/2" (#4)               | 4 1/2"                      | 2"            | 8"                  |
| 5/8" (#5)               | 5 5/8"                      | 2"            | 8"                  |
| 3/4" (#6)               | 6 3/4"                      | 2"            | 8"                  |
| 1" (#8)                 | 8"                          | NOT PERMITTED | NOT PERMITTED       |

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

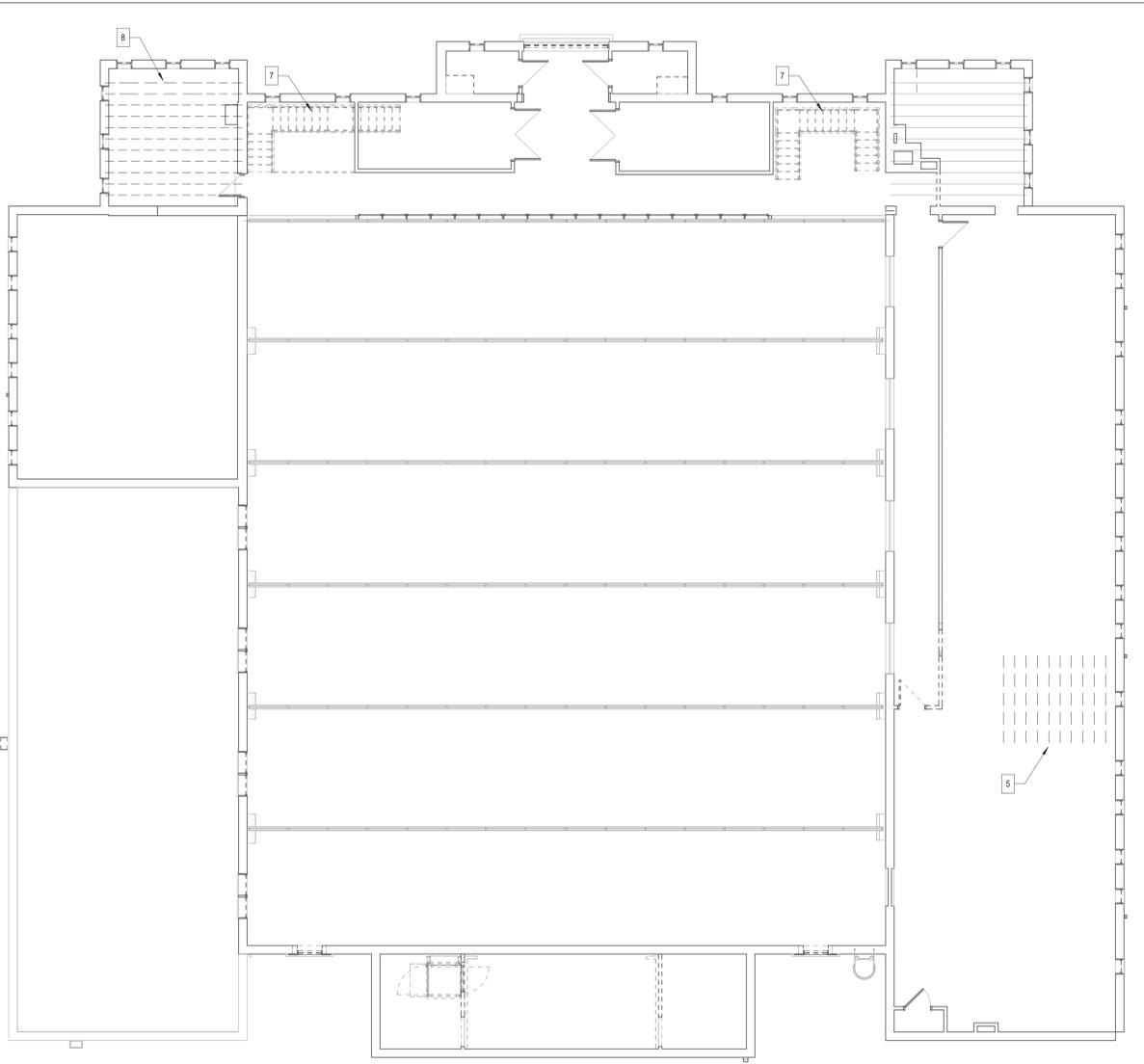
- SHOP DRAWING SUBMITTALS**
- SUBMIT NEWLY PREPARED INFORMATION DRAWN TO SCALE. INDICATE DEVIATIONS FROM CONTRACT DOCUMENTS. DO NOT REPRODUCE CONTRACT DOCUMENTS OR COPY STANDARD INFORMATION. DOCUMENTS REPRODUCED FROM FULLER GROUP, LLC. DOCUMENTS WITHOUT WRITTEN PERMISSION, WILL BE REJECTED. COMPLIANCE WITH SPECIFIED REQUIREMENTS REMAINS CONTRACTOR'S RESPONSIBILITY.
  - ALLOW A MINIMUM OF 10 BUSINESS DAYS FOR SUBMITTAL REVIEWS.
  - ELECTRONIC COPIES WILL BE ACCEPTED BUT WILL INCUR PRINTING CHARGES BELIED TO THE CLIENT.
  - SHOP DRAWINGS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING TO ENGINEER. SHOP DRAWINGS NOT REVIEWED BY THE GENERAL CONTRACTOR MAY BE SUBJECT TO REJECTION.
  - 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.
  - 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 SUPERSEDE DIMENSIONS SHOWN ON STRUCTURAL PLANS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
  - PROVIDE THE FOLLOWING SUBMITTALS:
    - CONCRETE
      - CONCRETE MIX DESIGNS WITH SAMPLE LABORATORY TEST REPORTS PER ACI 318
      - CONCRETE ADMIXTURE PRODUCT DATA
      - REBAR SHOP DRAWINGS
      - CONCRETE SAMPLE CYLINDER BREAK RESULTS (7 DAYS, 28 DAYS)

- UNIT MASONRY ASSEMBLIES**
- ALL CONCRETE MASONRY WORK SHALL CONFORM TO TMS 402/ACI 530/ASCE 5 LATEST EDITION, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" AND TSM 602/ACI 530I 1/ASCE 6 LATEST EDITION, "SPECIFICATION FOR MASONRY STRUCTURES".
  - 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
  - CONCRETE MASONRY UNITS: SHALL MEET ASTM C 90; LIGHTWEIGHT (105 PCF MAX.) PROVIDE SPECIAL SPACERS FOR LINTELS, CORNERS, JAMBS, SASH CONTROL JOINTS, AND OTHER SPECIAL CONDITIONS.
  - PROVIDE MATERIALS TO ACHIEVE THE NET COMPRESSIVE STRENGTH OF CONCRETE UNIT MASONRY EQUAL TO OR GREATER THAN fn = 2000 PSI.
  - MORTAR: COMPLY WITH ASTM C 270. PROPORTION SPECIFICATION: ALL MORTAR FOR CMU WORK SHALL BE TYPE S. DO NOT USE CALCIUM CHLORIDE IN MORTAR.
  - GROUT: COMPLY WITH ASTM C478, 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 60 INCHES. WEBS OF HOLLOW UNITS CONTAINING VERTICAL REINFORCING SHALL BE FULLY MORTARRED TO CONFINE GROUT DURING PLACEMENT.
  - CONSTRUCT ALL MASONRY IN RUNNING BOND PATTERN WITH 3/8" JOINTS, UNLESS NOTED OTHERWISE. TOOL EXPOSED JOINTS CONCRAVE.
  - ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60. LAP BARS AS FOLLOWS: #4 - 20" #5 - 32" #6 - 38" #8 - 48" #10 - 54" #11 - 60" #12 - 66" #14 - 84" #16 - 102" #18 - 120" #20 - 144" #22 - 162" #24 - 180" #26 - 216" #28 - 252" #30 - 306" #32 - 360" #36 - 432" #40 - 504" #44 - 606" #48 - 728" #52 - 864" #56 - 1032" #60 - 1248" #64 - 1512" #68 - 1814" #72 - 2176" #76 - 2616" #80 - 3144" #84 - 3792" #88 - 4536" #92 - 5448" #96 - 6576" #100 - 7920" #104 - 9504" #108 - 11424" #112 - 13704" #116 - 16440" #120 - 19720" #124 - 23664" #128 - 28592" #132 - 34512" #136 - 41424" #140 - 49560" #144 - 59856" #148 - 71808" #152 - 86544" #156 - 104640" #160 - 126560" #164 - 153440" #168 - 185280" #172 - 224160" #176 - 274944" #180 - 335520" #184 - 407808" #188 - 492240" #192 - 596160" #196 - 718080" #200 - 870720" #204 - 1058400" #208 - 1284480" #212 - 1557120" #216 - 1890240" #220 - 2302080" #224 - 2802240" #228 - 3408480" #232 - 4120320" #236 - 4950400" #240 - 5902400" #244 - 7066560" #248 - 8466720" #252 - 10272960" #256 - 12441600" #260 - 15184320" #264 - 18345600" #268 - 22248000" #272 - 27177600" #276 - 32985600" #280 - 39840000" #284 - 48220800" #288 - 58344000" #292 - 69432000" #296 - 82540800" #300 - 98976000" #304 - 118464000" #308 - 142272000" #312 - 170592000" #316 - 202656000" #320 - 244800000" #324 - 297120000" #328 - 360576000" #332 - 430464000" #336 - 508320000" #340 - 599904000" #344 - 705792000" #348 - 829680000" #352 - 976320000" #356 - 1151360000" #360 - 1350240000" #364 - 1577760000" #368 - 1839360000" #372 - 2233440000" #376 - 2678400000" #380 - 3216000000" #384 - 3854400000" #388 - 4563200000" #392 - 5448000000" #396 - 6393600000" #400 - 7526400000" #404 - 8865600000" #408 - 10440000000" #412 - 12268800000" #416 - 14347200000" #420 - 16680000000" #424 - 19334400000" #428 - 23352000000" #432 - 27360000000" #436 - 32864000000" #440 - 39048000000" #444 - 46080000000" #448 - 53088000000" #452 - 61144000000" #456 - 70440000000" #460 - 81168000000" #464 - 93456000000" #468 - 107616000000" #472 - 123600000000" #476 - 141376000000" #480 - 161184000000" #484 - 180816000000" #488 - 202368000000" #492 - 225360000000" #496 - 250320000000" #500 - 277200000000" #504 - 306000000000" #508 - 336720000000" #512 - 369480000000" #516 - 404400000000" #520 - 441600000000" #524 - 480960000000" #528 - 523680000000" #532 - 568320000000" #536 - 616000000000" #540 - 666240000000" #544 - 719040000000" #548 - 774720000000" #552 - 832320000000" #556 - 892800000000" #560 - 954240000000" #564 - 1018720000000" #568 - 1085760000000" #572 - 1155360000000" #576 - 1224600000000" #580 - 1296000000000" #584 - 1368960000000" #588 - 1444800000000" #592 - 1510080000000" #596 - 1564320000000" #600 - 1621440000000" #604 - 1680000000000" #608 - 1738080000000" #612 - 1803360000000" #616 - 1876320000000" #620 - 1948000000000" #624 - 2026080000000" #628 - 2107200000000" #632 - 2184960000000" #636 - 2269760000000" #640 - 2344800000000" #644 - 2412960000000" #648 - 2479680000000" #652 - 2544000000000" #656 - 2608320000000" #660 - 2670720000000" #664 - 2731200000000" #668 - 2783680000000" #672 - 2837280000000" #676 - 2892480000000" #680 - 2949600000000" #684 - 3004320000000" #688 - 3058800000000" #692 - 3116160000000" #696 - 3173440000000" #700 - 3227040000000" #704 - 3281280000000" #708 - 3338400000000" #712 - 3393600000000" #716 - 3451920000000" #720 - 3508800000000" #724 - 3566400000000" #728 - 3626400000000" #732 - 3686400000000" #736 - 3748800000000" #740 - 3813600000000" #744 - 3883200000000" #748 - 3955200000000" #752 - 4029600000000" #756 - 4098240000000" #760 - 4169280000000" #764 - 4241760000000" #768 - 4306800000000" #772 - 4371360000000" #776 - 4438560000000" #780 - 4500480000000" #784 - 4572480000000" #788 - 4642560000000" #792 - 4707360000000" #796 - 4765440000000" #800 - 4826880000000" #804 - 4888800000000" #808 - 4953120000000" #812 - 5023680000000" #816 - 5092320000000" #820 - 5164800000000" #824 - 5239200000000" #828 - 5316480000000" #832 - 5395440000000" #836 - 5477280000000" #840 - 5561920000000" #844 - 5642160000000" #848 - 5726160000000" #852 - 5804160000000" #856 - 5885280000000" #860 - 5969600000000" #864 - 6058240000000" #868 - 6150080000000" #872 - 6234240000000" #876 - 6315840000000" #880 - 6401280000000" #884 - 6477440000000" #888 - 6554400000000" #892 - 6634080000000" #896 - 6710400000000" #900 - 6786400000000" #904 - 6863040000000" #908 - 6940800000000" #912 - 7018800000000" #916 - 7098960000000" #920 - 7179360000000" #924 - 7260000000000" #928 - 7340800000000" #932 - 7422880000000" #936 - 7506000000000" #940 - 7591440000000" #944 - 7678080000000" #948 - 7766000000000" #952 - 7856320000000" #956 - 7947840000000" #960 - 8040640000000" #964 - 8136800000000" #968 - 8234880000000" #972 - 8325120000000" #976 - 8417600000000" #980 - 8511360000000" #984 - 8600400000000" #988 - 8691360000000" #992 - 8784480000000" #996 - 8880720000000" #1000 - 8979360000000

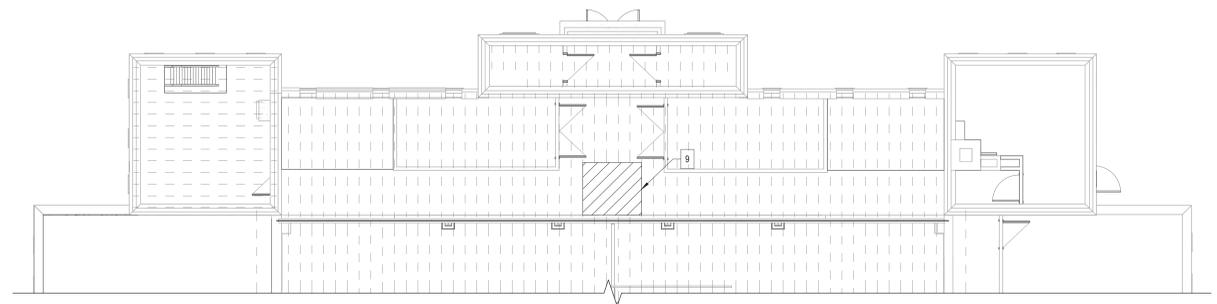
DESIGN LOAD CRITERIA	
This analysis is made utilizing the 2018 North Carolina Building Code (IBC 2015 amended).	
<b>ROOF DESIGN LOADS</b>	
Dead Load	20 psf
Live Load	20 psf
<b>FLOOR DESIGN LOADS</b>	
Dead Load	20 psf
Elevated Floor Live Load	100 psf
<b>SNOW LOADS</b>	
Ground Snow Load, P <sub>g</sub>	15 psf
Exposure Factor, C <sub>e</sub>	1.0</



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



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



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

- DEMOLITION NOTES**
- 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.
  - SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION NOT SHOWN.
  - 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.
  - THE EXTENT OF WORK SHOWN SHALL INCLUDE REMOVAL AND DISPOSAL, OFF SITE, OF THE BUILDING STRUCTURE, FOUNDATIONS, SUPPORTING WALLS, AND SLABS-ON-GRADE.
  - 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.
  - THE EXISTING STRUCTURE TO REMAIN IS TO BE SHORED AS REQUIRED UNTIL THE SUPPORTING ELEMENTS ARE INSTALLED AS SHOWN ON THE DRAWING.
  - 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.
  - CONTRACTOR SHALL SUBMIT A PROPOSED DECONSTRUCTION SEQUENCE TO THE OWNER AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO COMMENCEMENT OF WORK.
  - 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

**CRAIG GAULDEN DAVIS**  
 Architecture  
 19 Washington Park  
 Greenville, SC 29601  
 Phone 864.242.0761  
 Fax 864.501.9945  
 Email cgd@cgdash.com

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**FULLER structural**  
 FULLER STRUCTURAL, INC  
 1350 C Cleveland St., Greenville, SC 29607  
 O: 864.235.3590 • F: 864.235.3577  
 info@fullergrp.com • fullergrp.com  
 FULLER GROUP PROJECT # 241776  
 FIRM NO. C-1903

**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: NLH  
 CHECKED BY: MAH

**DEMOLITION PLAN**  
**S100**

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CONSULTANT  
**FULLER** structural  
FULLER STRUCTURAL, INC  
1350 C Cleveland St., Greenville, SC 29607  
O: 864.235.3590 • F: 864.235.3577  
info@fullergp.com • fullergp.com  
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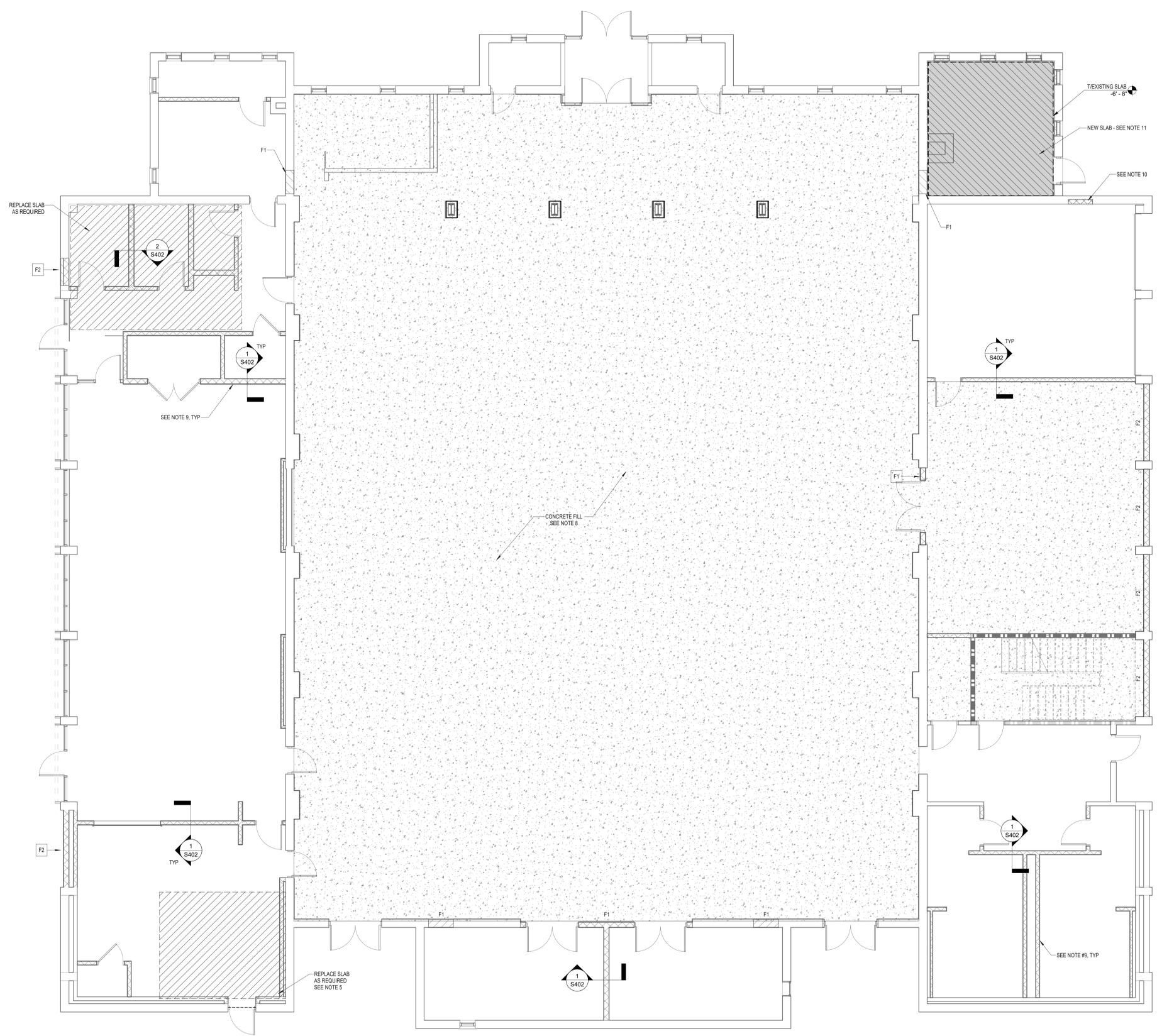
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FOUNDATION PLAN

**S101**



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 ELEVATION - SEE SCHEDULE
*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) #3x7'-0" IN TOP OF SLAB @ ALL RE-ENTRANT CORNERS NOT INTERSECTING A SLAB JOINT.
  - REFER TO DETAIL B1S401 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

**FOUNDATION PLAN**  
1 S101 3/16" = 1'-0"

7 6 5 4 3 2 1

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CONSULTANT



FULLER STRUCTURAL, INC  
1350 C Cleveland St., Greenville, SC 29607  
O: 864.235.3590 • F: 864.235.3577  
info@fullergrp.com • fullergrp.com  
FULLER GROUP PROJECT # 241776  
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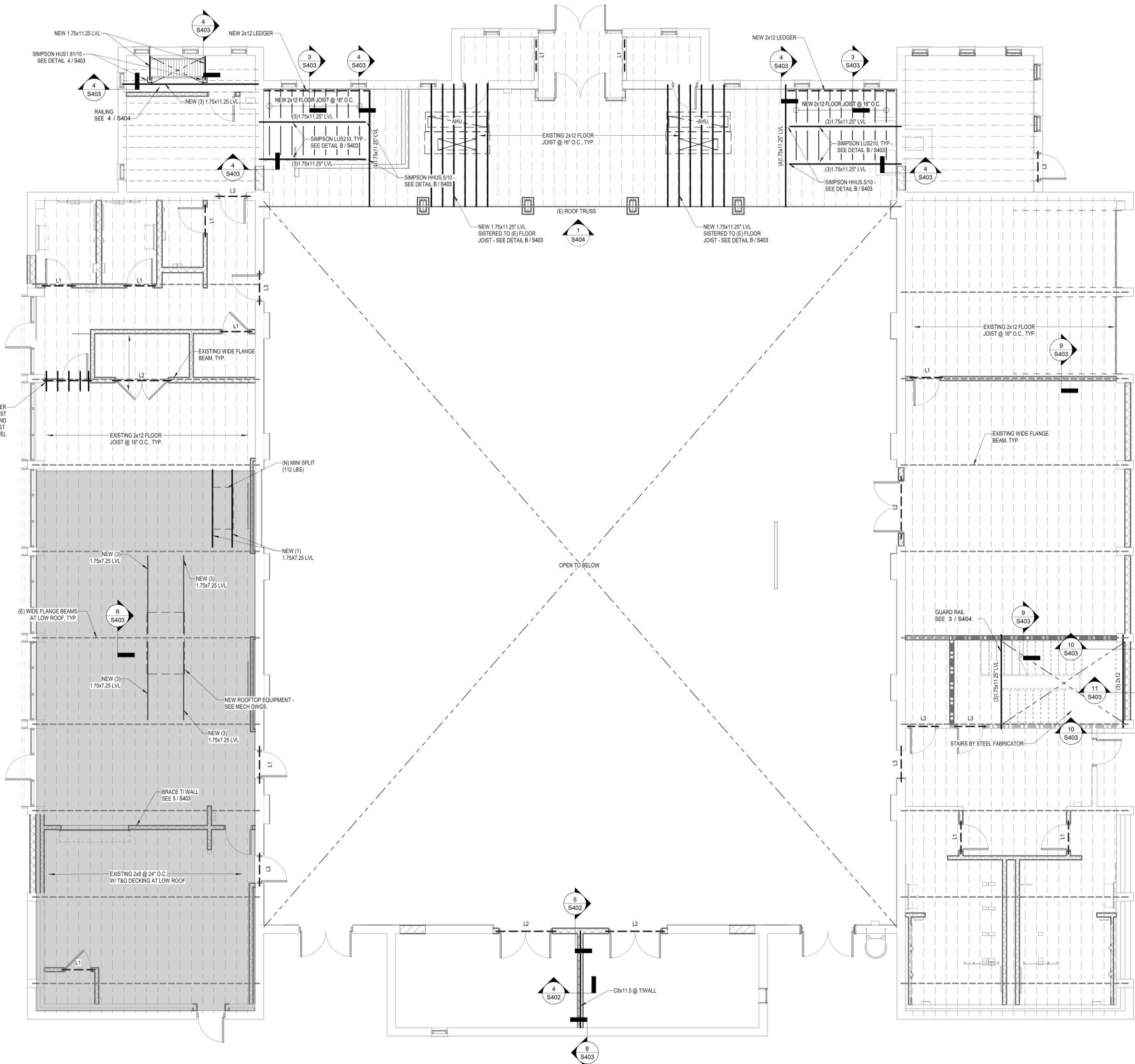
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SECOND FLOOR AND LOW ROOF FRAMING PLAN

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 1/2"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 (+3'-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 SECOND FLOOR AND LOW ROOF FRAMING PLAN  
3/16" = 1'-0"

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1350 C Cleveland St., Greenville, SC 29607  
O: 864.235.3590 • F: 864.235.3577  
info@fullergrp.com • fullergrp.com  
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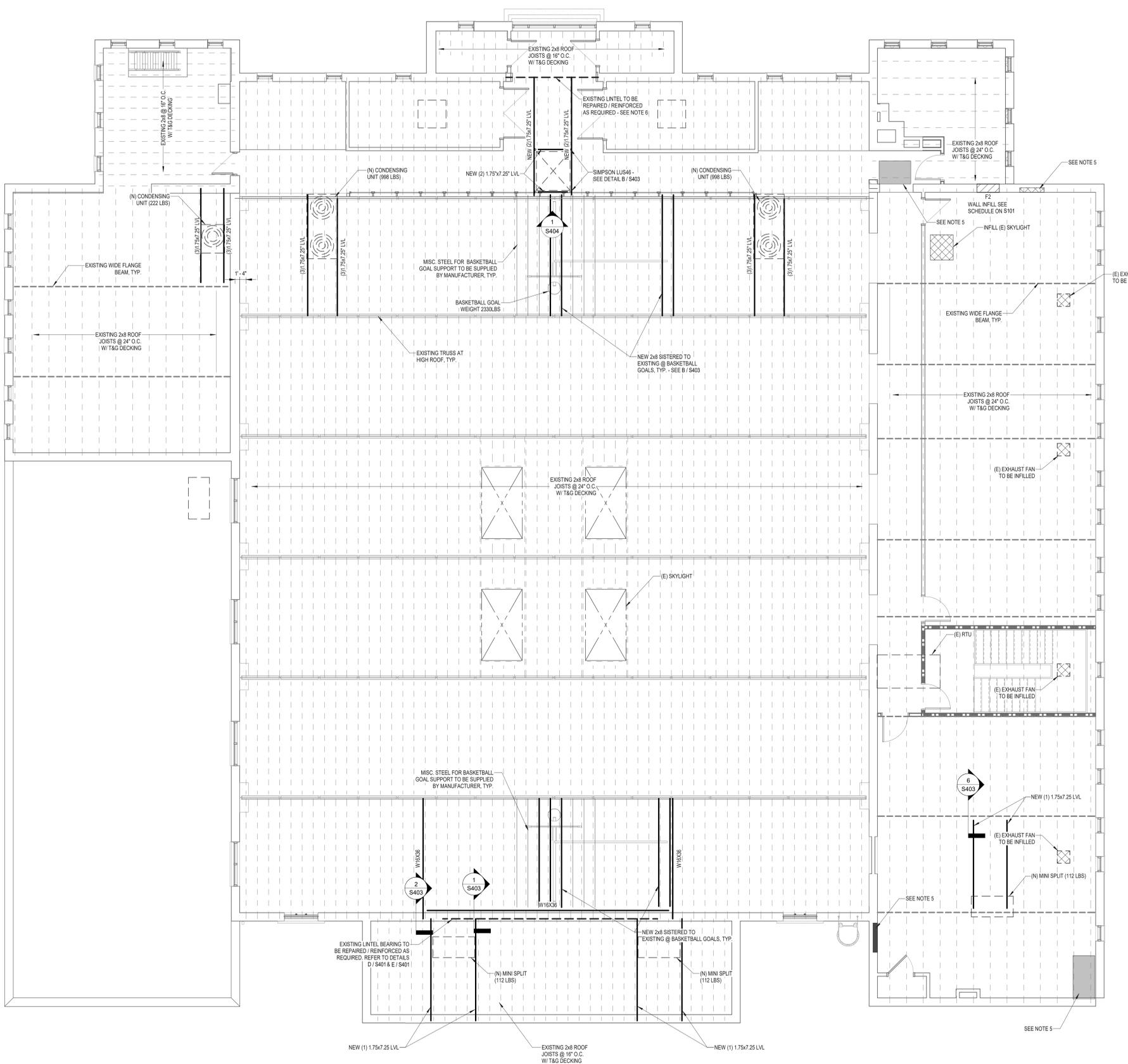
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ROOF FRAMING PLAN

**S301**



**LEGEND**  
 ??-?? JOIST BEARING ELEVATION - SEE PLAN  
 HF HEADER - SEE SCHEDULE THIS SHEET  
 ?? 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.

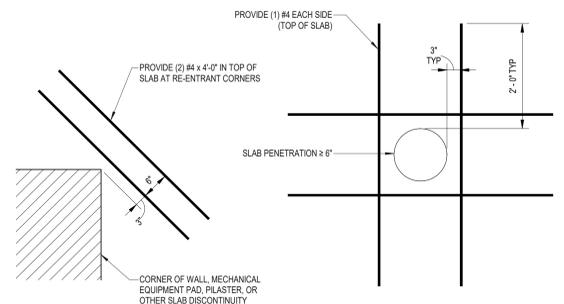
**NOTE**  
 CONTRACTOR TO VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION

**1 ROOF FRAMING PLAN**  
 S301 3/16" = 1'-0"

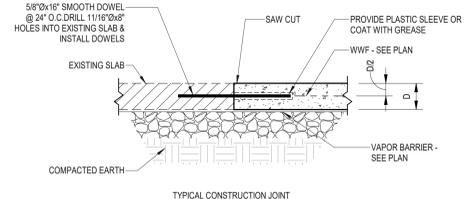
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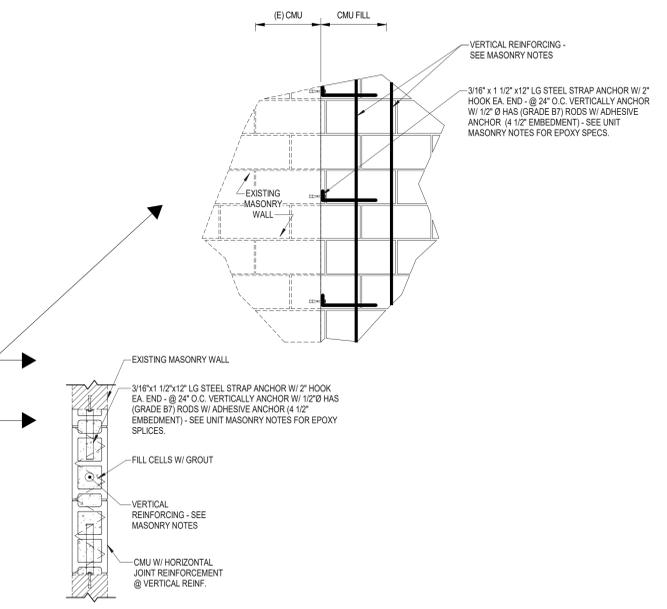
**1 (N) RAMP TO (E) SLAB**  
S401 3/4" = 1'-0"



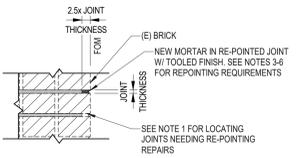
**A SLAB-ON-GRADE REINFORCING**  
S401 3/4" = 1'-0"



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

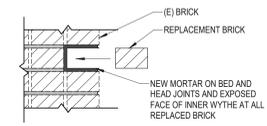


**C CONNECTION TO EXISTING MASONRY**  
S401 3/4" = 1'-0"



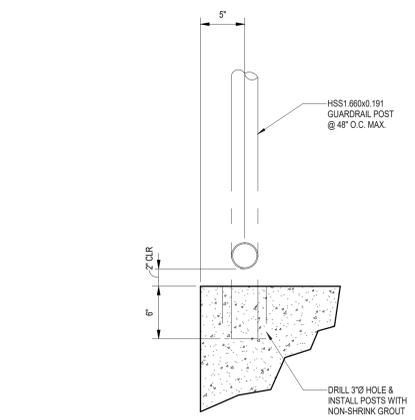
**D REPOINTING OF (E) BRICK MASONRY**  
S401 1 1/2" = 1'-0"

- REPOINTING 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-SOUNDING 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 BY S601.
  - REFER TO PROJECT SPECIFICATIONS SECTION 04-01-20.84 BRICK MASONRY REPOINTING FOR ADDITIONAL REQUIREMENTS.

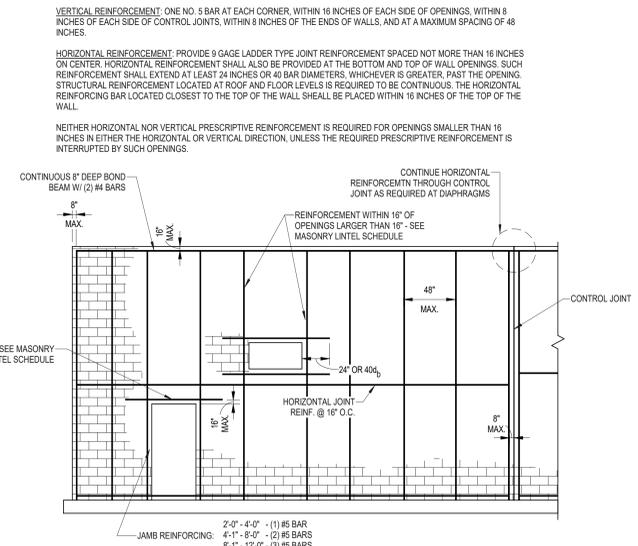


**E REPLACEMENT OF (E) BRICK MASONRY**  
S401 1 1/2" = 1'-0"

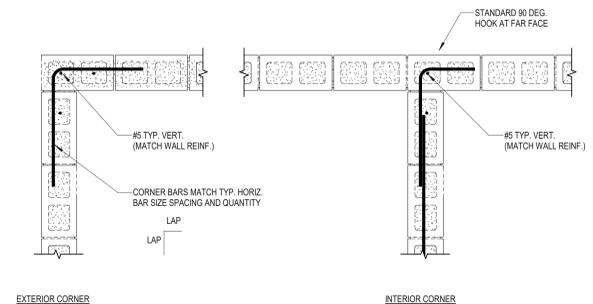
- BRICK REPLACEMENT NOTES**
- BRICK EXHIBITING THE FOLLOWING DEFICIENCIES SHALL BE REMOVED AND REPLACED:
    - POWDERING OF SURFACE WHEN RUBBED WITH HAND OR SCRAPPED WITH FINGER/NAIL
    - SPALLING IN LAYERS WHEN RUBBED WITH HAND
    - CAN BE BROKEN BY POKING OR JABBING WITH SCREWDRIVER
    - IMPRESSION 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 NOT EXHIBIT THE DEFICIENCIES LISTED ABOVE.
  - REFER TO PROJECT SPECIFICATIONS SECTION 04-01-20.83-BRICK MASONRY REPAIR FOR ADDITIONAL REQUIREMENTS.



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



**G TYPICAL MASONRY WALL REINFORCING**  
S401 3/16" = 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 4'-0" IN LENGTH.
  - PROVIDE CORNER BARS FOR ALL BOND BEAM AND LINTEL REINFORCING.

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

**CRAIG GAULDEN DAVIS**  
Architecture  
19 Washington Park  
Greenville, SC 29601  
Phone 864.242.0761  
Fax 864.501.9945  
Email cgd@cgdarch.com

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CONSULTANT  
**FULLER** structural  
FULLER STRUCTURAL, INC  
1350 C Cleveland St., Greenville, SC 29607  
O: 864.235.3590 • F: 864.235.3577  
info@fullergrp.com • fullergrp.com  
FULLER GROUP PROJECT # 241776  
FIRM NO. C-1903

**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: NLH  
CHECKED BY: MAH

SECTIONS & DETAILS  
**S401**

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**CRAIG GAULDEN DAVIS**

Architecture

19 Washington Park  
Greenville, SC 29601  
Phone 864.242.0761  
Fax 864.501.9945  
E-mail cgd@cgaarch.com

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CONSULTANT

**FULLER**  
structural

FULLER STRUCTURAL, INC  
1350 C Cleveland St., Greenville, SC 29607  
O: 864.235.3580 • F: 864.235.3577  
info@fullergrp.com • fullergrp.com  
FULLER GROUP PROJECT # 241776  
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**TOWN OF CANTON**

**ARMORY COMMUNITY CENTER RENOVATION**

71 PENLAND ST. CANTON, NC 28716

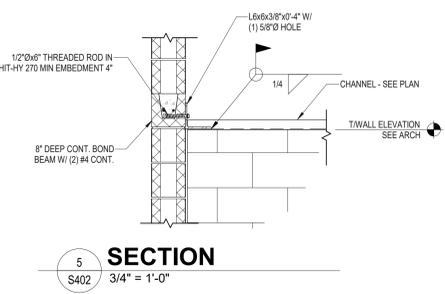
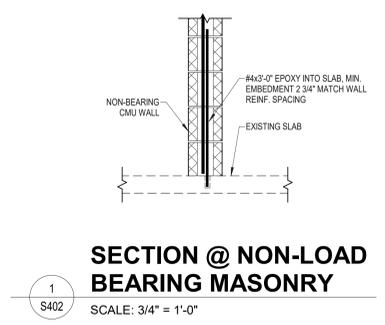
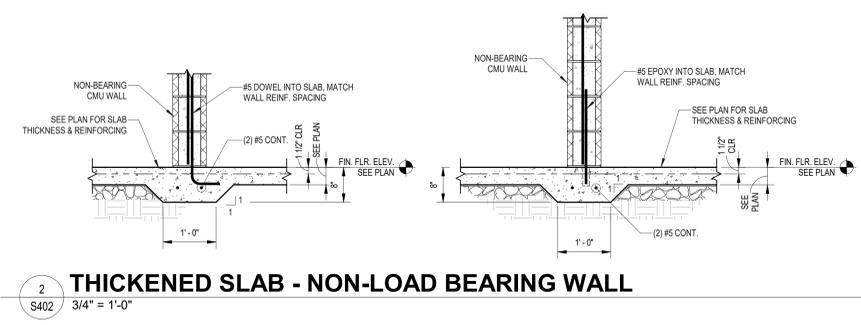
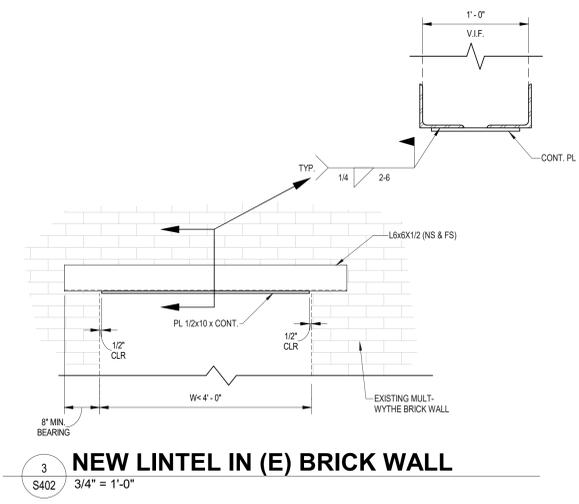
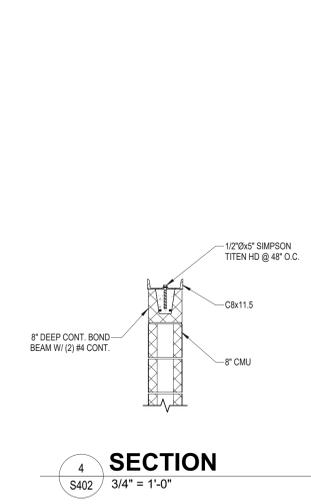
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PROJECT NO:	23029
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CHECKED BY:	Checker

SECTIONS & DETAILS

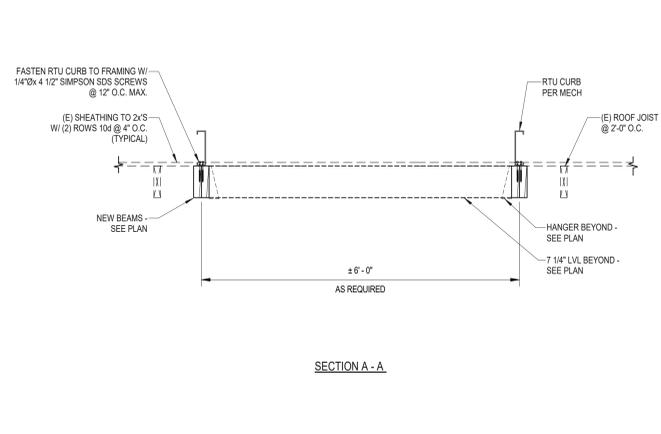
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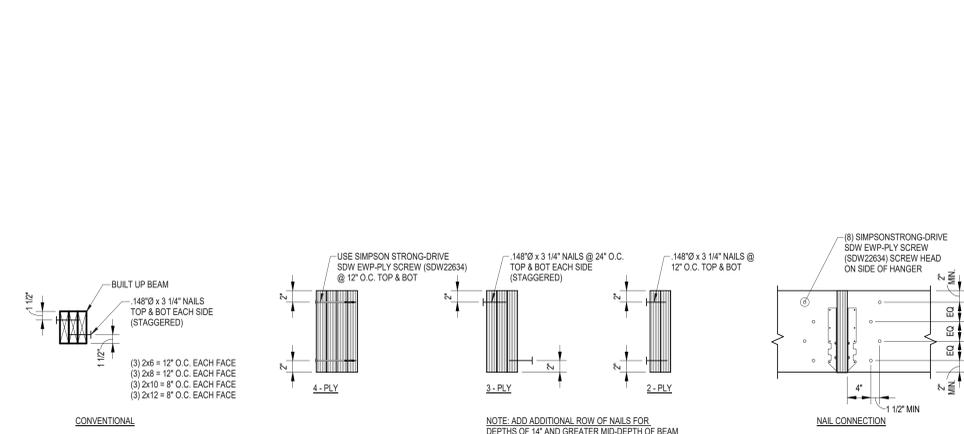
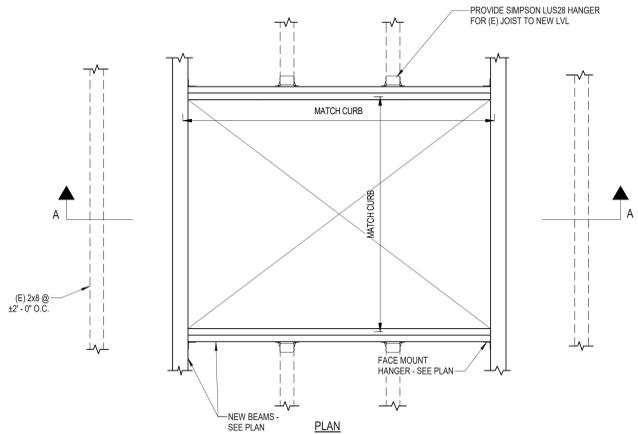
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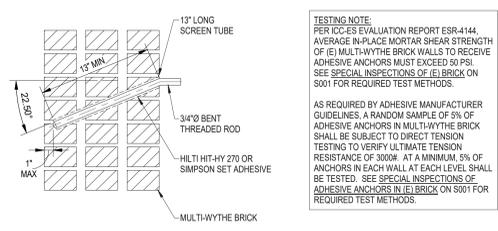
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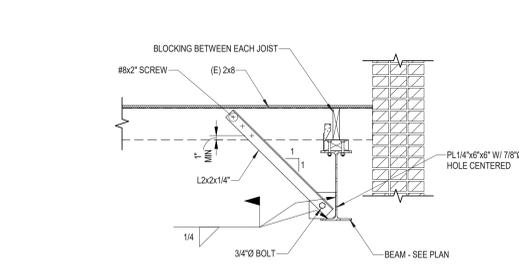
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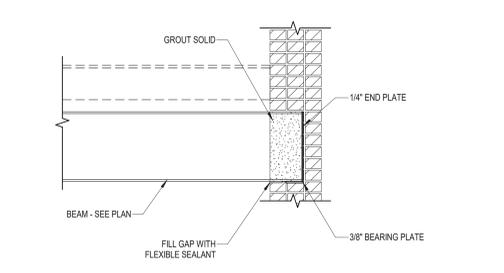
**B**  
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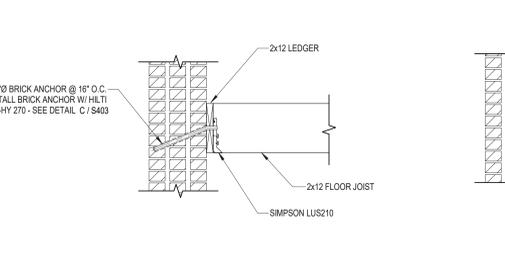
**C**  
S403 SCALE: 1 1/2" = 1'-0"



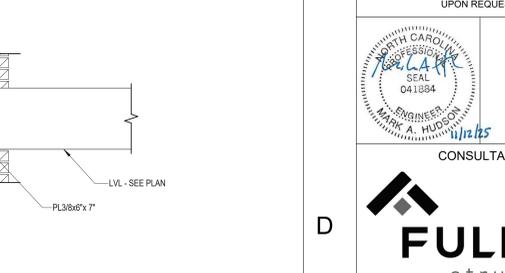
**1**  
S403 3/4" = 1'-0"



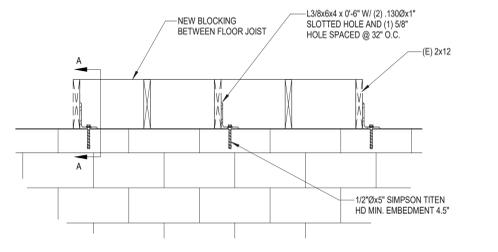
**2**  
S403 3/4" = 1'-0"



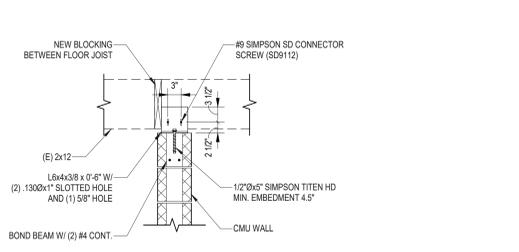
**3**  
S403 3/4" = 1'-0"



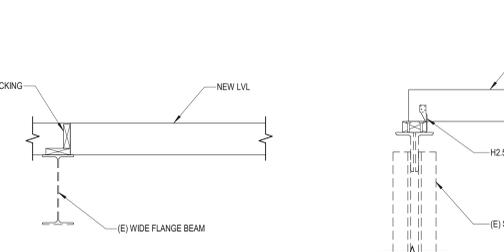
**4**  
S403 3/4" = 1'-0"



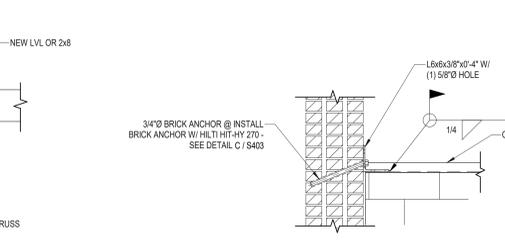
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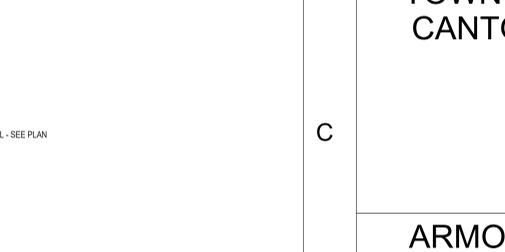
**A-A**



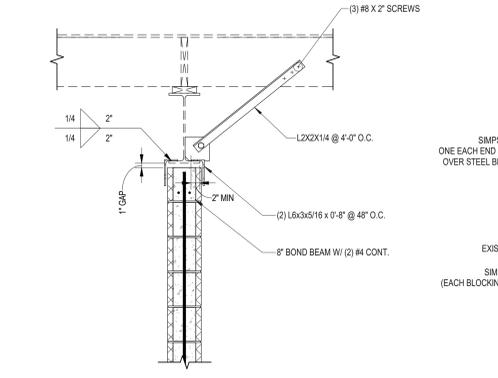
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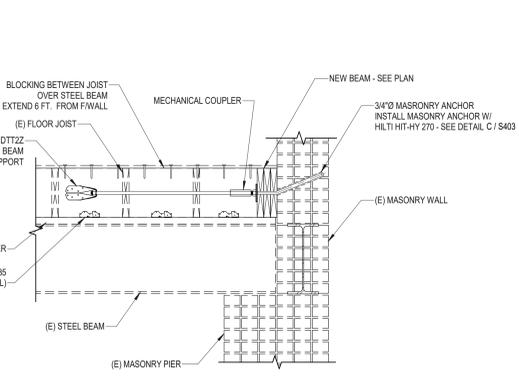
**7**  
S403 3/4" = 1'-0"



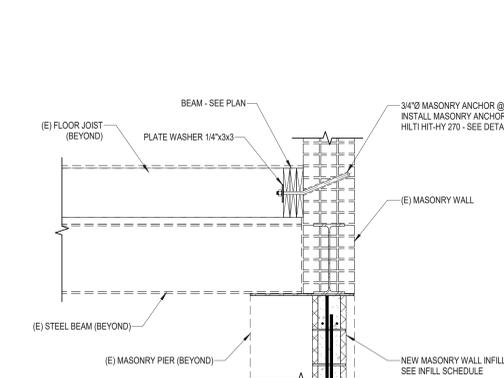
**8**  
S403 3/4" = 1'-0"



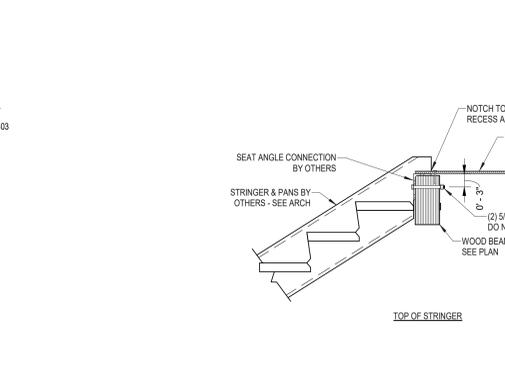
**9**  
S403 3/4" = 1'-0"



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



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



**12**  
S403 3/4" = 1'-0"

**CRAIG GAULDEN DAVIS**  
Architecture

19 Washington Park  
Greenville, SC 29601  
Phone 864.242.0761  
Fax 864.501.9945  
Email cgd@cgdarch.com

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CONSULTANT  
**FULLER** structural  
FULLER STRUCTURAL, INC  
1350 C Cleveland St., Greenville, SC 29607  
O: 864.235.3590 • F: 864.235.3577  
info@fullergrp.com • fullergrp.com  
FULLER GROUP PROJECT # 241776  
FIRM NO. C-1903

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**ARMORY COMMUNITY CENTER RENOVATION**

71 PENLAND ST. CANTON, NC 28716

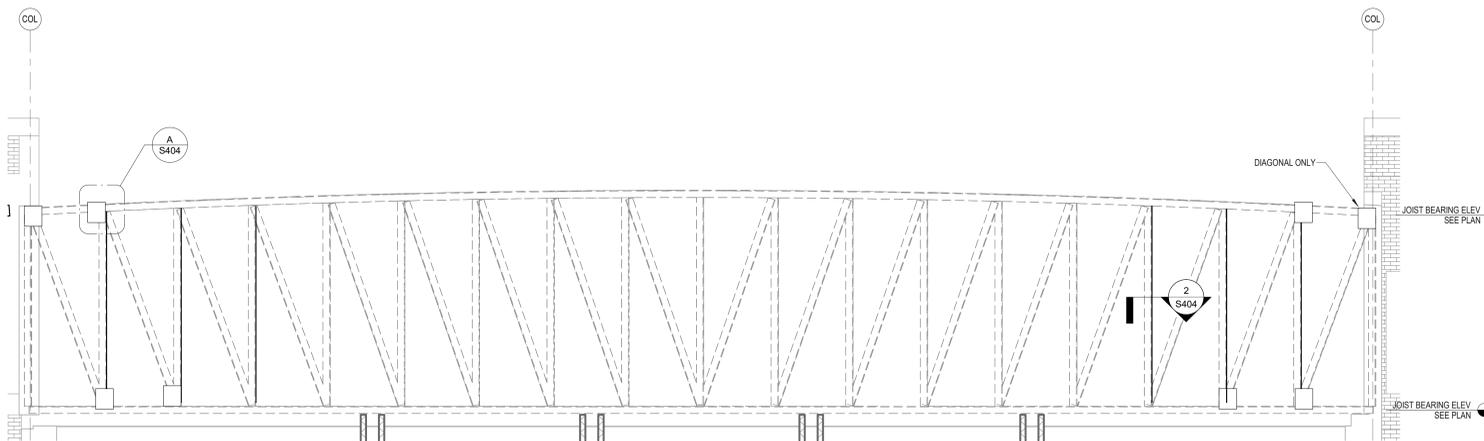
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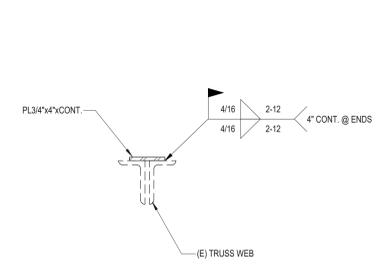
SECTIONS & DETAILS

**S403**

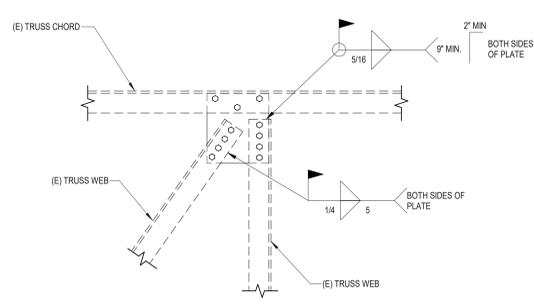
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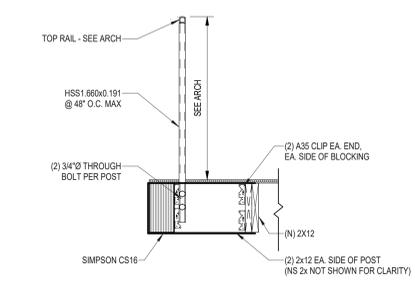
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1/4" = 1'-0"



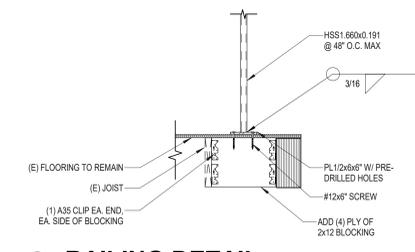
**2**  
S404  
1 1/2" = 1'-0"



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



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



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

**CRAIG GAULDEN DAVIS**  
• Architecture  
19 Washington Park  
Greenville, SC 29601  
Phone 864.242.0761  
Fax 864.501.9945  
E-mail cgd@cgaarch.com

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CONSULTANT  
**FULLER**  
structural  
FULLER STRUCTURAL, INC  
1350 C Cleveland St., Greenville, SC 29607  
O: 864.235.3590 • F: 864.235.3577  
info@fullergrp.com • fullergrp.com  
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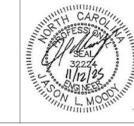
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MECHANICAL MAIN LEVEL DEMOLITION PLAN

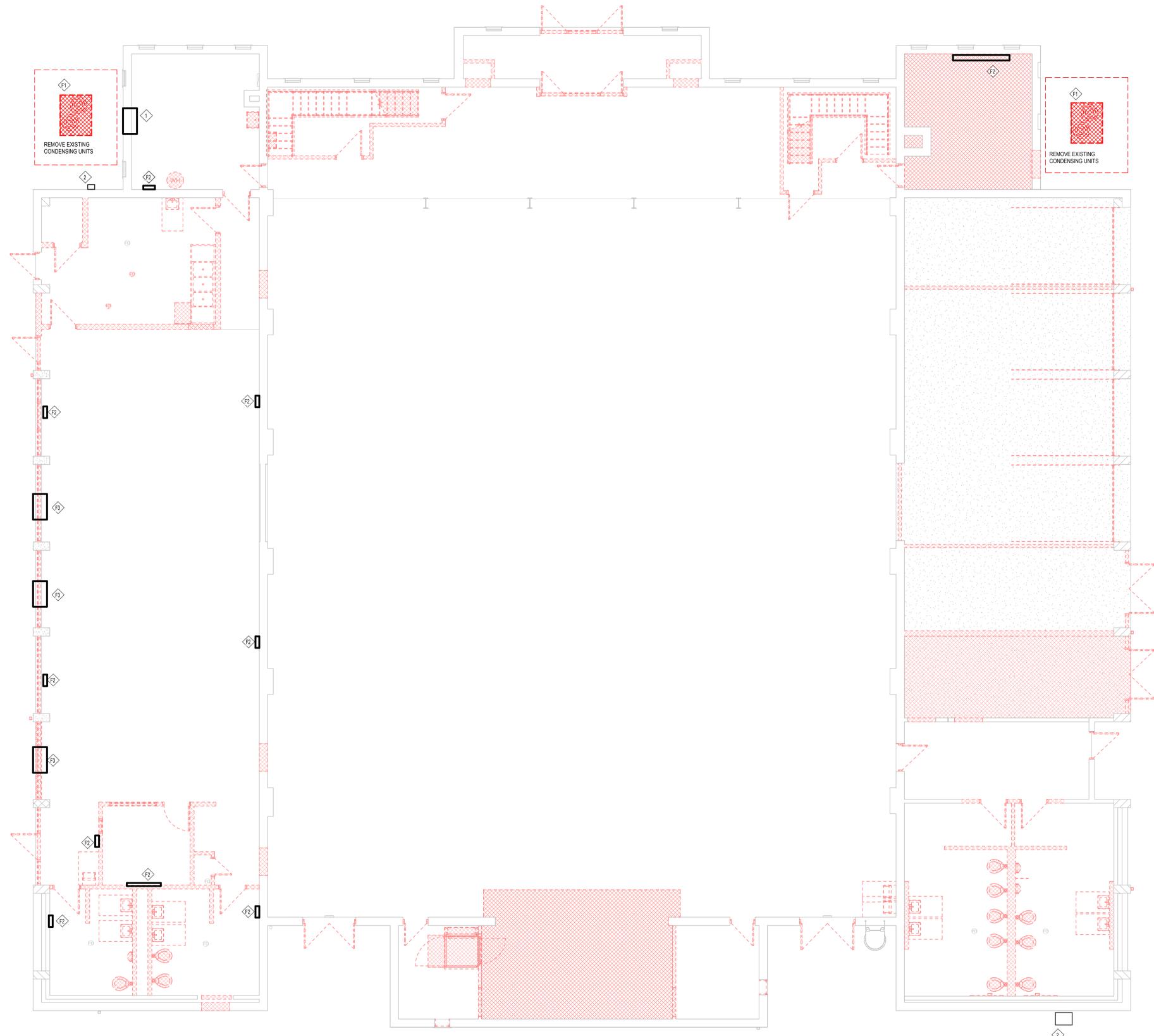
**MD101**

**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 HEATERS(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"

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**CRAIG GAULDEN DAVIS**

• Architecture

19 Washington Park  
Greenville, SC 29601  
Phone 864.242.0761  
Fax 864.501.9945  
E-mail cgd@cgdarch.com

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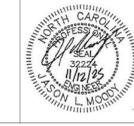
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**KEYED MECHANICAL DEMOLITION NOTES - FEMA REPAIRS**  
NOTES APPLY TO THIS SHEET ONLY

⬡ 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.

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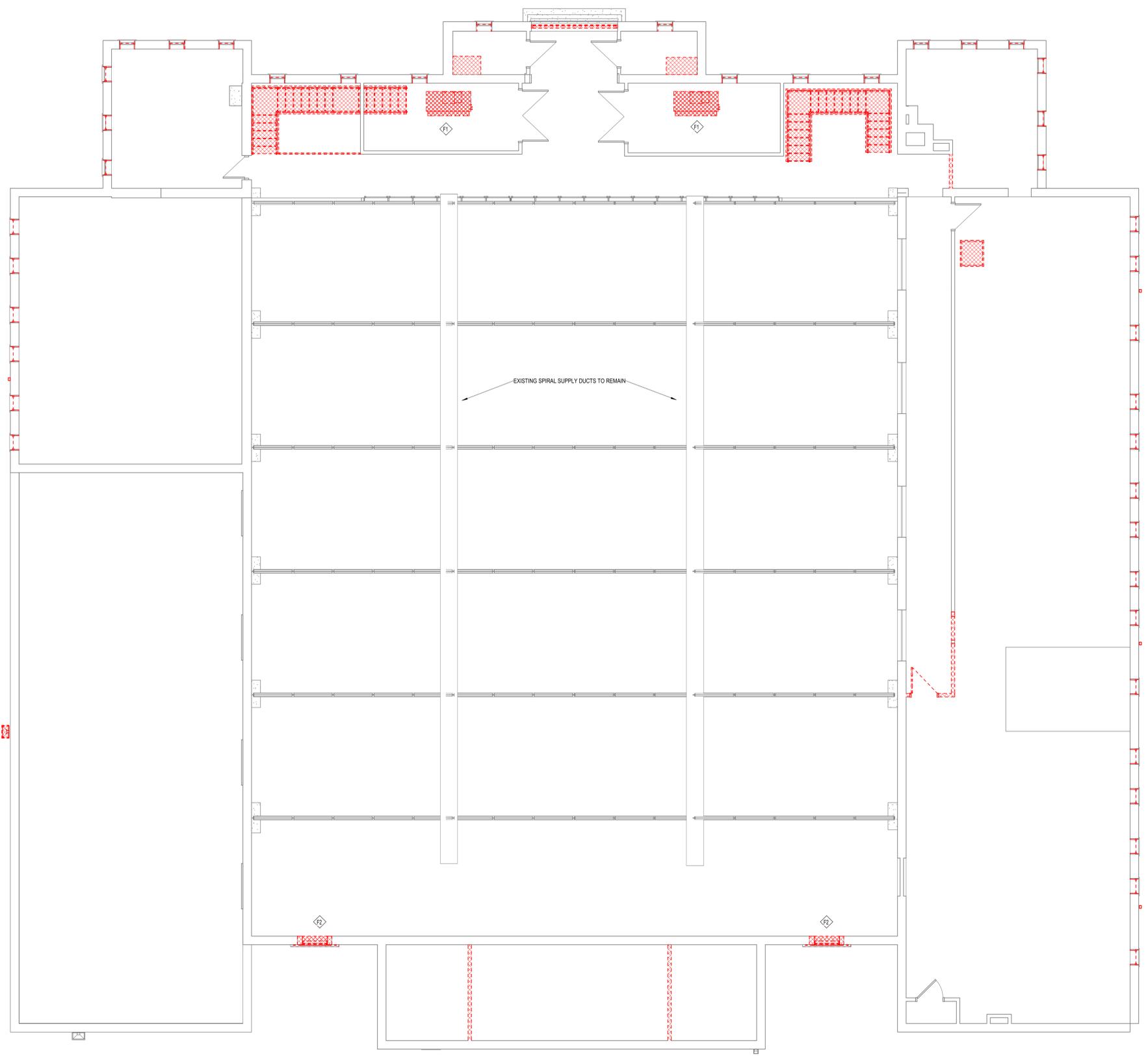
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**MECHANICAL UPPER LEVEL DEMOLITION PLAN**

**MD102**



EXISTING SPIRAL SUPPLY DUCTS TO REMAIN

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

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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
	Condensate Removal Rate (gal/hr)	0.70	0.67	0.67	0.67
Notes / Options	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:**
- Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
  - Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
  - See outdoor unit schedule for outdoor ambient conditions, connected capacity, and other factors associated with corrected capacities
  - See schematic piping/control diagram for indication of required indoor unit remote controllers, system controllers, and integration devices.
  - 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.
  - It is recommended to always base heating corrected capacity on full demand.
  - Provide Blue Diamond MaxiBlue Condensate Pump with Reservoir & Sensor - 208/230V
  - 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
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
	Corrected Heating Capacity (BTU/h)	12,898.5	12,898.5	12,898.5	12,898.5
	Sound Pressure (dBA)	54/55	54/55	54/55	54/55
Compressor Data	Compressor Type				
	Compressor Quantity				
Electrical Data	Preliminary Added Field Charge (See Note 5)	0.0	0.0	0.0	0.0
	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:**
- Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
  - Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
  - Efficiency values for EER, IEER, COP are based on AHRI 1230 test method for mixture of ducted & non-ducted indoor units.
  - For systems with multiple modules, refrigerant pipe dimensions indicate total system combined piping downstream of module twinning.
  - Added field charge listed is in addition to factory charge, this must be updated based upon final as-built piping layout.
  - Factory representatives shall review the project prior to and throughout the installation of CITY MULTI equipment
  - Factory representatives shall startup and commission CITY MULTI equipment upon completion of equipment installations
  - Factory representatives shall provide on-site assistance for the BMS integration of the CITY MULTI equipment
  - Factory representatives shall provide end-user training on the CITY MULTI equipment upon completion of the installation of equipment
  - Equals by Trane and Daikin

**CRAIG GAULDEN DAVIS**  
 Architecture  
 19 Washington Park  
 Greenville, SC 29601  
 Phone 864.242.0761  
 Fax 864.501.9945  
 E-mail cgd@gdarch.com

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CONSULTANT

**RNM ENGINEERS**  
 Reece, Noland & McElrath, Inc.  
 80 MAIN STREET CANTON, SOUTH CAROLINA 29716  
 PHONE: 828.495.4877 FAX: 828.281.1111  
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**TOWN OF CANTON**

**ARMORY COMMUNITY CENTER RENOVATION**

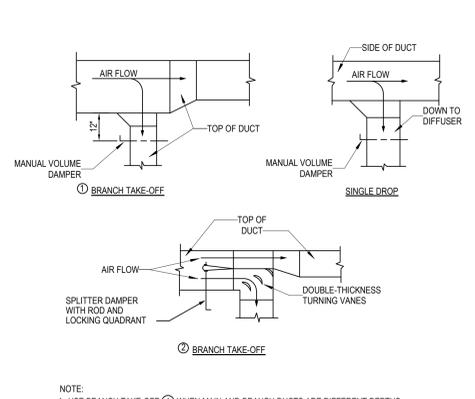
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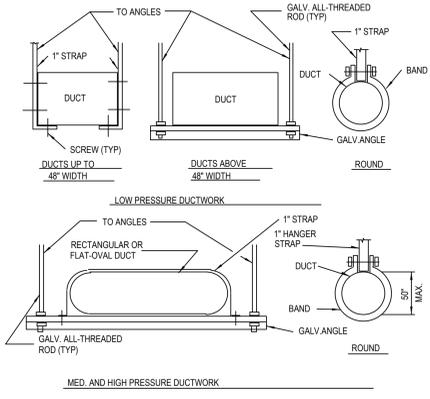
MECHANICAL NOTES AND LEGENDS

**M002**



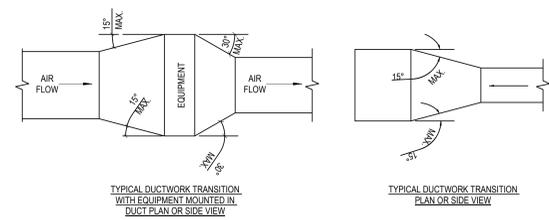
- NOTE:
1. USE BRANCH TAKE-OFF (1) WHEN MAIN AND BRANCH DUCTS ARE DIFFERENT DEPTHS
  2. USE BRANCH TAKE-OFF (2) WHEN MAIN AND BRANCH DUCTS ARE SAME DEPTHS
  3. MANUAL VOLUME DAMPERS SHALL BE PROVIDED FOR ALL SUPPLY AND RETURN SINGLE DROP DUCT RUNS.

1 DUCT TAKE-OFF AND BRANCH DETAIL  
M003 NTS

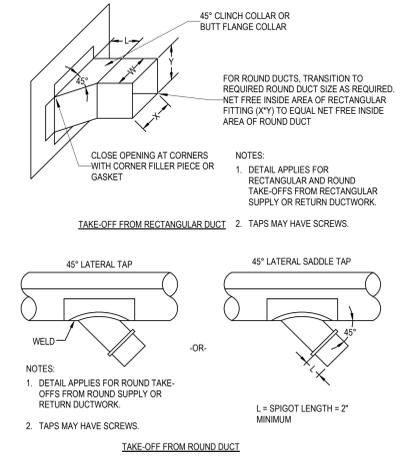


- NOTE:
- UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

2 DUCTWORK HANGERS  
M003 NTS

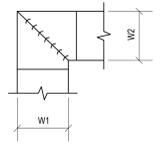


3 DUCTWORK TRANSITION  
M003 NTS



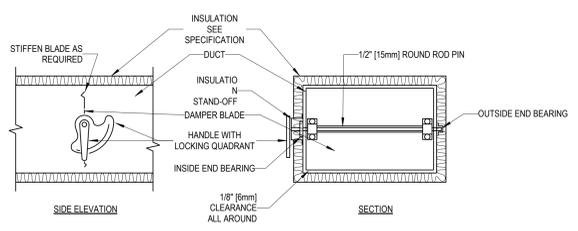
- GENERAL NOTES:
1. INSTALL DUCT TAKE-OFFS PER SMACNA DETAILS FIG. 2.8 AND 3.8. SPIN-IN TYPE FITTINGS SHALL NOT BE USED.

4 TAKE OFF (45)  
M003 NTS



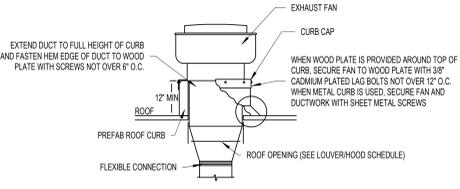
- NOTES:
1. ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA
  2. WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE THICKNESS VANE TYPE REGARDLESS OF W DIMENSION.
  3. ALL SINGLE THICKNESS VANES SHALL HAVE A 2" (50mm) RADIUS, 1-1/2" (40mm) MAXIMUM SPACE BETWEEN VANES AND A 3/4" (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

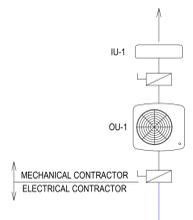


- NOTE:
1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
  2. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

6 VOLUME DAMPER  
M003 NTS

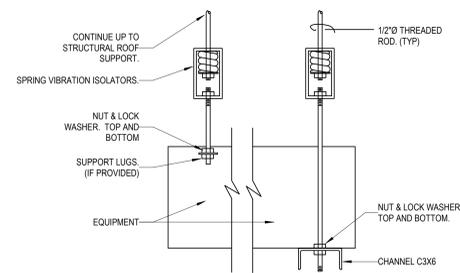


7 TYPICAL ROOF EXHAUST FAN DETAIL  
M003 NTS

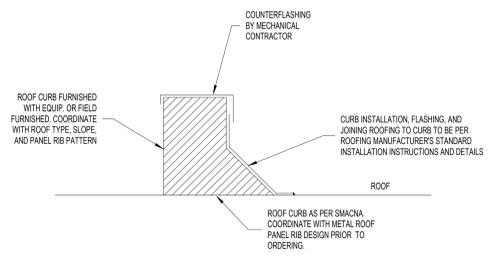


- NOTE:
- THE SPLIT SYSTEM A/C UNIT SPECIFIED ONLY REQUIRES A SINGLE BREAKER SPACE. THE INSIDE UNIT IS SERVED FROM THE OUTSIDE UNIT. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR WIRING TO OUTSIDE UNIT. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR WIRING FROM OUTSIDE UNIT TO INDOOR UNIT. M.C. TO FURNISH BOTH DISCONNECTS.

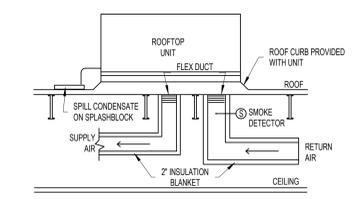
8 MINI SPLIT WIRING DIAGRAM  
M003 NTS



9 SUSPENDED EQUIPMENT SUPPORT  
M003 NTS



10 M - ROOF CURB DETAIL  
M003 NTS



11 M - TYPICAL ROOF TOP UNIT DETAIL  
M003 NTS

**CRAIG GAULDEN DAVIS**  
Architecture  
19 Washington Park  
Greenville, SC 29601  
Phone 864.242.0761  
Fax 864.501.9945  
E-mail cgd@gdarch.com

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CONSULTANT  
**RNM ENGINEERS**  
Reece, Noland & McElrath, Inc.  
80 MAIN STREET CANTON, SOUTH CAROLINA 29716  
PHONE: 828.495.0877 FAX: 828.495.0877  
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**TOWN OF CANTON**

**ARMORY COMMUNITY CENTER RENOVATION**

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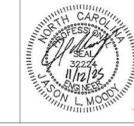
MECHANICAL DETAILS  
**M003**

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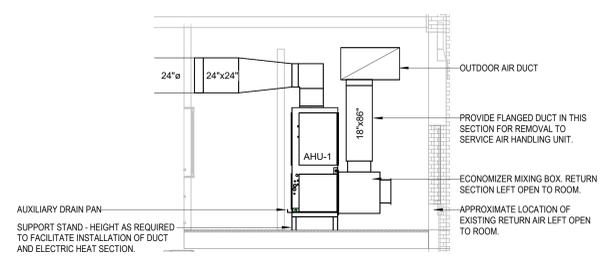
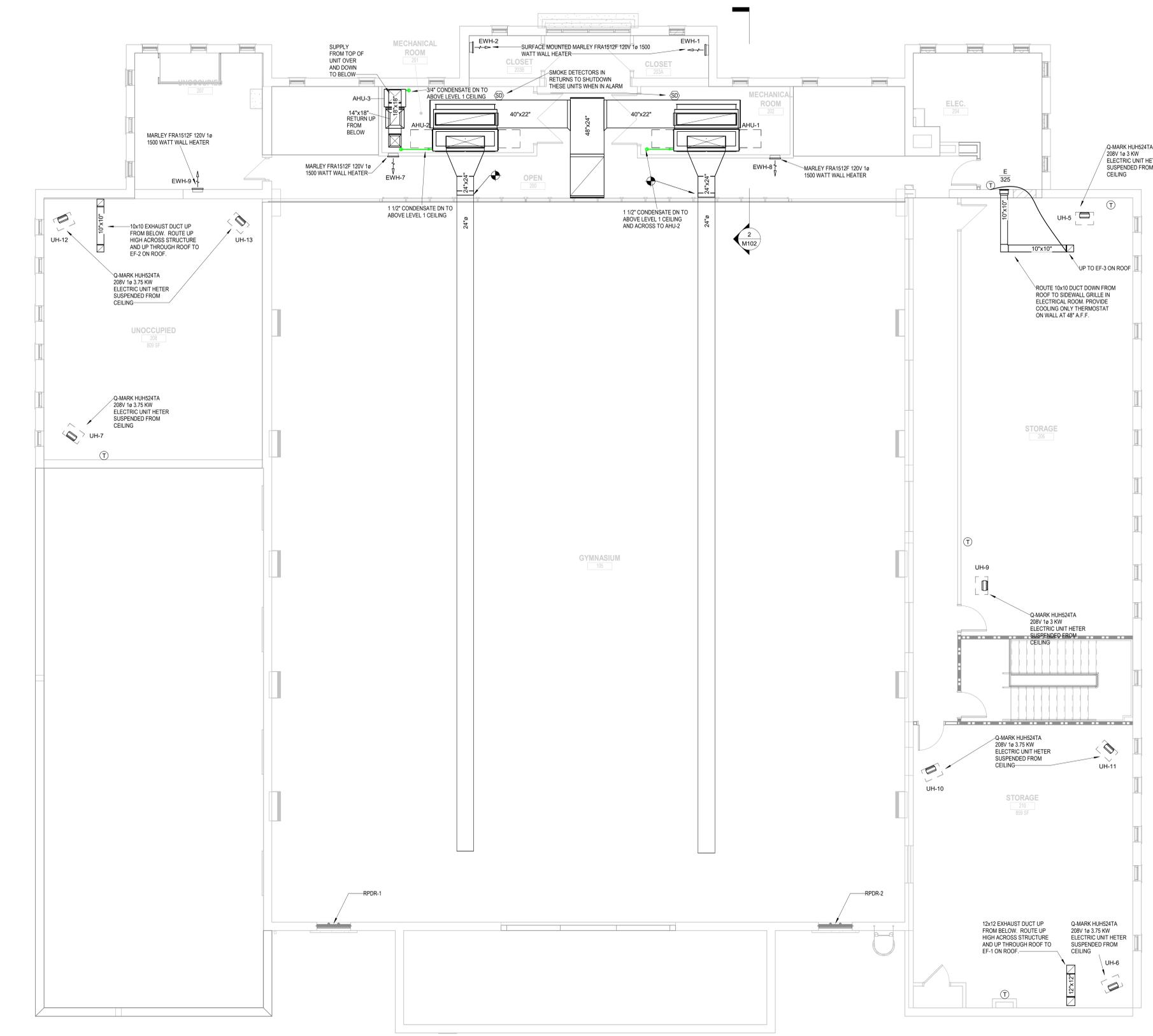
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**MECHANICAL UPPER LEVEL RENOVATION PLAN**

**M102**



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

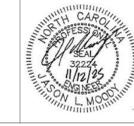
**2** SPLIT SYSTEM SECTION  
1/4" = 1'-0"

7 6 5 4 3 2 1

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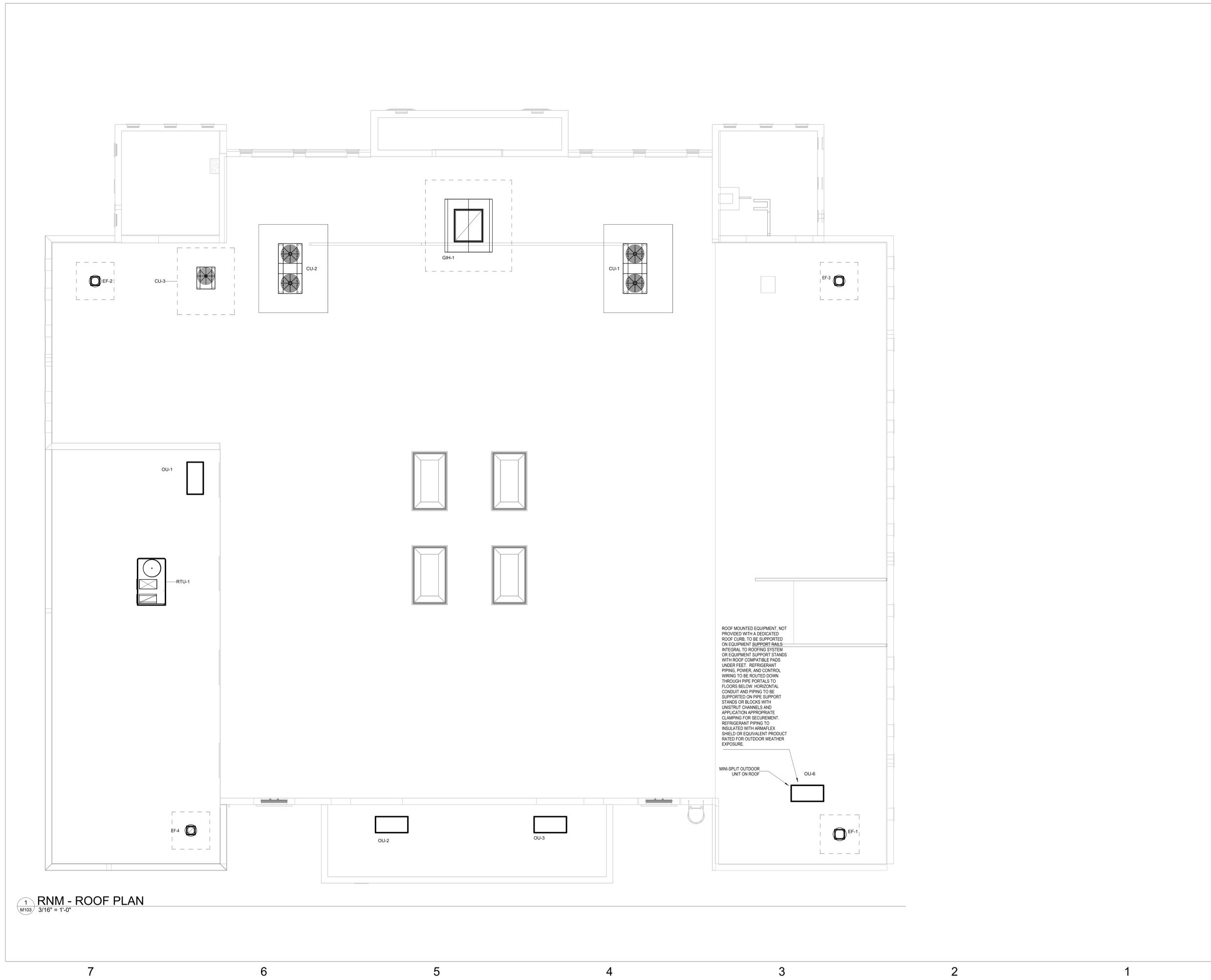
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**MECHANICAL ROOF RENOVATION PLAN**

**M103**



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

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**KEYED FEMA PLUMBING DEMOLITION NOTES**  
SEE ARCHITECTURAL SHEET "GF 10" 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 GOLD 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/FUNDS. SEE NEW PLAN FOR NEW PIPING AND CONNECTION TO EXISTING PIPING LOCATION IS ASSUMED. FIELD VERIFY EXACT LOCATIONS AND CONDITIONS.

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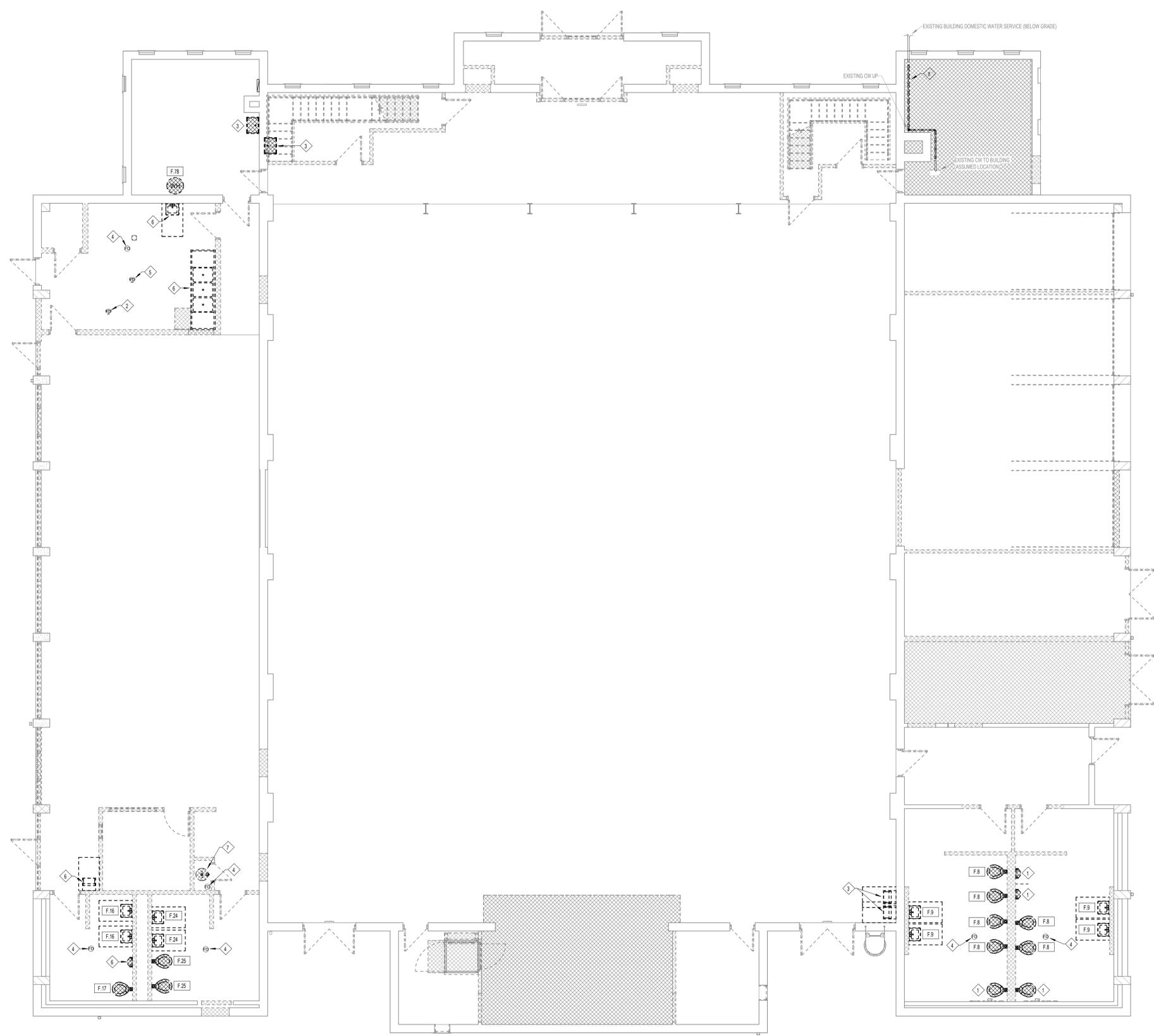
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**MAIN LEVEL PLUMBING DEMOLITION PLAN**

**PD101**



**1 MAIN LEVEL PLUMBING DEMOLITION PLAN**  
3/16" = 1'-0"  
TRUE NORTH

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**CRAIG GAULDEN DAVIS**

• Architecture

19 Washington Park  
 Greenville, SC 29601  
 Phone 864.242.0761  
 Fax 864.501.9945  
 Email cgd@cgaiaarch.com

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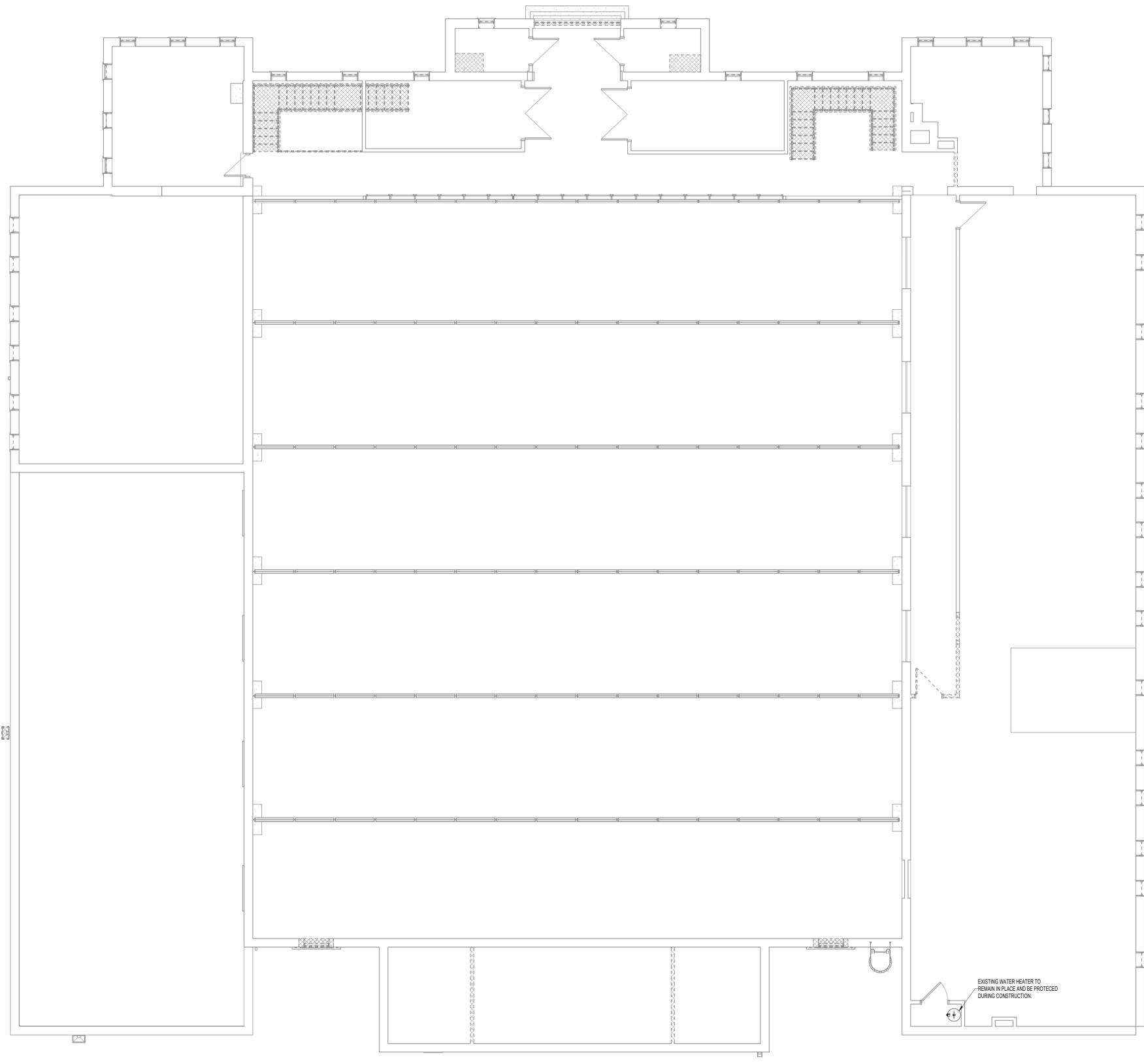
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UPPER LEVEL PLUMBING DEMOLITION PLAN

**PD102**



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

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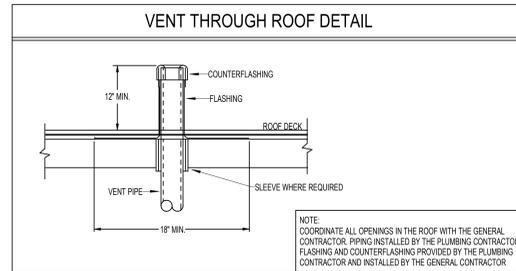
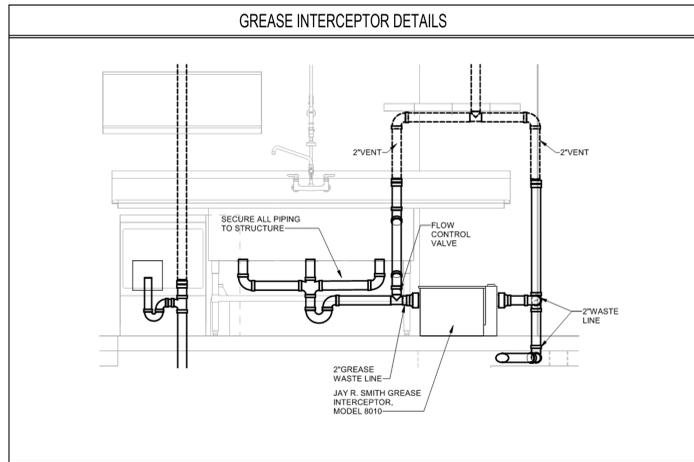
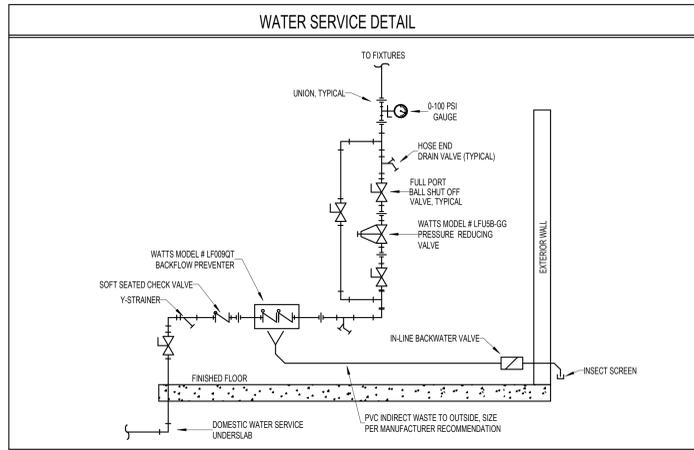
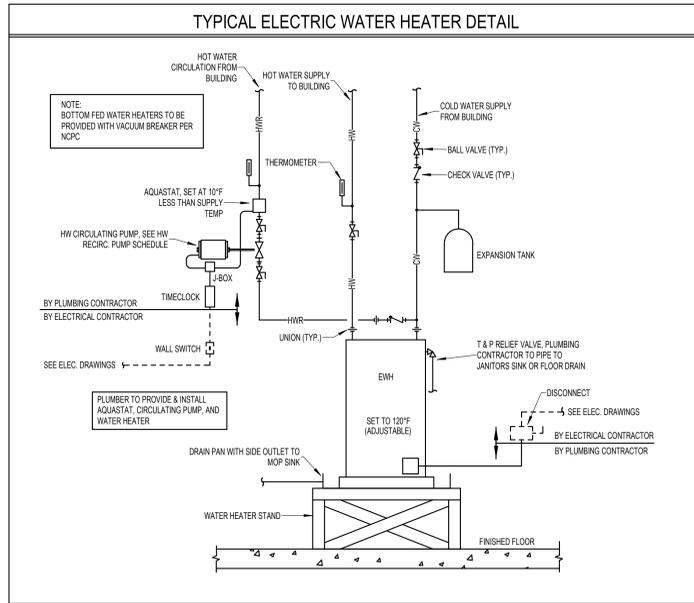
PLUMBING FIXTURE SCHEDULE & SPECIFICATIONS									
ITEM	FIXTURE	ACCESSORIES	WASTE	VENT	TRAP	HW	CW	REWORK VALVE	MOUNTING HGT.
P1	WATER CLOSET FLUSH VALVE TYPE KOHLER MODEL # K-8605-S0 "WELLONOME ULTRA" VITREOUS CHINA COORDINATE COLOR W/ARCHITECT	- SLOAN ROYAL 111-1.6 FLUSH VALVE 1.6 GPF - BEMS # 2155SCT 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-8605-S0 "HIGLOUFF ULTRA" VITREOUS CHINA COORDINATE COLOR W/ARCHITECT	- SLOAN ROYAL 111-1.6 FLUSH VALVE 1.6 GPF - BEMS # 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 "BROENHAM" VITREOUS CHINA (W/ SHROUD) COORDINATE COLOR W/ARCHITECT	- SYMMONS # S-20-Z-W-5 FAUCET SET - MCGUIRE BALL VALVE STOPS AND SUPPLIES - 17 GA. CHROME PLATED P-TRAP - CONCEALED FLOOR CARRIER	2"	2"	1 1/4"	12"	12"	3/8"	WALL HUNG- SEE ARCH. ELEVATIONS
P3	URINAL WALL HUNG KOHLER MODEL # K-491-ET "BARDON" VITREOUS CHINA	- SLOAN MODEL 198-0.5 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 # L21LW15V1R1 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"	---	12"	3/8"	WALL HUNG PER ADA REQUIREMENTS
P5	JANITORS SINK FLOOR MOUNTED FIAT MODEL # T85000 "PRECASIT" TERAZZO	- DELTA FAUCET MODEL # 28C284-AC FAUCET SET - STAINLESS STEEL CAP ON ALL CURBS - FIAT # 88-CC MOP HANGER - FIAT # 82-4A HOSE & HOSE BRACKET	3"	2"	3"	12"	12"	3/8"	FLOOR MOUNTED FAUCET AT 48" A.F.F.
P6	HOSE BIBB - INTERIOR WOODFORD # 24-CH-LOOSE KEY	- FURNISH COMPLETE	---	---	---	---	12"	---	WALL MOUNTED 18" A.F.F.
P7	FLOOR DRAIN SOUX CHIEF MODEL # 833-630/NVHM "FINSHLINE" - DUCTILE / CAST IRON	DUCTILE IRON HEAD ADAPTOR, CORING SLEEVE, AND GLAMPING COLLAR. CAST IRON BASE ADAPTOR. HIGH IMPACT POLYMER CORING FLUG. 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 SOUX CHIEF SERIES 861 "FINSHLINE" - DUCTILE / CAST IRON	- FURNISH COMPLETE. COORDINATE GRATE WITH EQUIPMENT REQUIREMENTS.	3"	2"	3"	---	---	---	MTD FLUSH WITH FLOOR
P8	FLOOR CLEANOUT SOUX CHIEF MODEL # 834-630/R40/NV9 "FINSHLINE" - DUCTILE / CAST IRON	DUCTILE IRON HEAD ADAPTOR, CORING SLEEVE, AND GLAMPING COLLAR. HIGH IMPACT POLYMER CORING FLUG. ADJUSTABLE ROUND NICKEL BRONZE TOP. BRASS CLEANOUT PLUG. CARPET MARKER (AS REQUIRED). LEVELING SHIM KIT, AND FLEXIBLE LOCATING BRISTLE KIT.	---	---	---	---	---	---	MTD FLUSH WITH FLOOR
P9	WATER SUPPLY BOX RECESSED MOUNTED GRAY MODEL # 358B1 STAINLESS STEEL	- FURNISH COMPLETE - SUPPLY CONNECTIONS TO ICE MAKING EQUIPMENT TO BE COPPER TUBING.	---	---	---	---	12"	---	WALL RECESSED

- NOTES:
- FLUSH VALVE HANDLES SHALL BE TO THE WIDE SIDE OF TOILET STALL PER N. C. ACCESSIBILITY CODE.
  - INSTALL CHECK VALVES ON ALL COLD WATER AND HOT WATER SUPPLIES TO JANITORS SINKS.
  - ALL HANDICAP SINKS TO BE PROVIDED WITH OFFSET TAILPIECE.
  - ALL HANDICAP SINK/LAVATORIES TO HAVE MCGUIRE # P42129C PRO SEAMLESS PREWRAPPED P-TRAP AND SUPPLY INSULATION KIT.
  - COORDINATE ALL INSTALLATION OF SINKS WITH CASEWORK SHOP DRAWINGS PRIOR TO ORDERING.
  - FOR ALL HANDICAP SINKS/LAVATORIES, USE 107° TEMPERATURE LIMITING DEVICES TO BE INCLUDED AT POINT OF USE TO PROVIDE "TEMPERED" WATER, (UNLESS DEVICES) 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	LOCATION
EW-H1	BRADFORD WHITE MODEL # LE3503-S	REFERENCE "TYPICAL ELECTRIC WATER HEATER DETAIL"	50	62 GPH @ 80°F RISE	240V, 3ø, 12kW	MULTI-PURPOSE ROOM 207

HOT WATER RECIRCULATING PUMP SCHEDULE									
ITEM	MANUFACTURER & MODEL NUMBER	CAPACITY (G.P.M.)	HEAD	TYPE	MATERIAL	ELECTRICAL REQUIREMENTS	HP	RPM	LOCATION
RCP-1	TACO MODEL # 0010	4	10	IN-LINE	STAINLESS STEEL	120V, 1Ø, 60 HZ, 1.1Ø AMPS	1/8	3,250	MULTI-PURPOSE ROOM 207

- GENERAL PLUMBING NOTES**
- 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.
  - ALL PIPING, FIXTURES, EQUIPMENT, ETC. SHOWN ON THESE DRAWINGS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODE REQUIREMENTS.
  - ALL PIPING, SLEEVES, INSERTS, AND OTHER ROUGH-IN MATERIALS SHALL BE INSTALLED AS BUILDING CONSTRUCTION PROGRESSES.
  - PIPE HANGERS SHALL BE SIZED SO THAT INSULATION IS CONTINUOUS AT ALL HANGERS.
  - THIS CONTRACTOR SHALL COORDINATE WITH ALL OTHER CONTRACTORS AND TRADES TO LOCATE HIS WORK TO AVOID CONFLICTS.
  - 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 IMPACTS WORK SHOWN ON THESE DRAWINGS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR COORDINATION PRIOR TO CONSTRUCTION.
  - CLEAN OUTS SHALL BE INSTALLED WHERE SHOWN AND WHERE REQUIRED BY CODE.
  - 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.
  - INSTALL ALL PIPING INSIDE OF THERMAL ENVELOPE. SEE ARCHITECTURAL DRAWINGS.
  - INSTALL BALL VALVE STOPS ON ALL FIXTURE HOT WATER AND COLD WATER SUPPLIES.
  - 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, PRIVS, ETC. REQUIRED TO INSTALL EQUIPMENT AND MAKE FINAL CONNECTIONS.
  - 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.
  - ALL DOMESTIC WATER PIPE, TRIM, AND FITTINGS TO BE LEAD FREE.
  - 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.
  - 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.
  - NO "DOUBLE WYE" FITTINGS PERMITTED ON HORIZONTAL WASTE PIPING.
  - PROVIDE AND INSTALL SHOCK ARRESTOR PROTECTION FOR ALL FLUSH VALVES AND LINES SERVING QUICK CLOSING VALVES PER PDH-201 STANDARD.
  - COORDINATE LOCATION OF ALL FLOOR DRAINS WITH ARCHITECTURAL PLANS.
  - PROVIDE VALVE TAGS AND PIPE LABELS PER STATE AND LOCAL CODES.



PLUMBING LEGEND	
---	WASTE LINE
---	VENT LINE
---	COLD WATER (CW)
---	HOT WATER (HW)
---	HOT WATER RETURN (HWR)
---	140°F HOT WATER (140°F)
---	BALL VALVE
---	CHECK VALVE
---	GREASE WASTE

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**F**

**CRAIG GAULDEN DAVIS**  
Architecture

19 Washington Park  
Greenville, SC 29601  
Phone 864.242.0761  
Fax 864.501.9945  
E-mail cgd@gdarch.com

**E**

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**D**

CONSULTANT

**RNM ENGINEERS**  
Reece, Noland & McElrath, Inc.  
80 MAIN STREET CANTON, SOUTH CAROLINA 29716  
PHONE: 828.495.4877 FAX: 828.495.4877  
MAIL@RNMENGINEERS.COM © 2024 WWW.RNMENGINEERS.COM

**C**

**TOWN OF CANTON**

**ARMORY COMMUNITY CENTER RENOVATION**

71 PENLAND ST. CANTON, NC 28716

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**B**

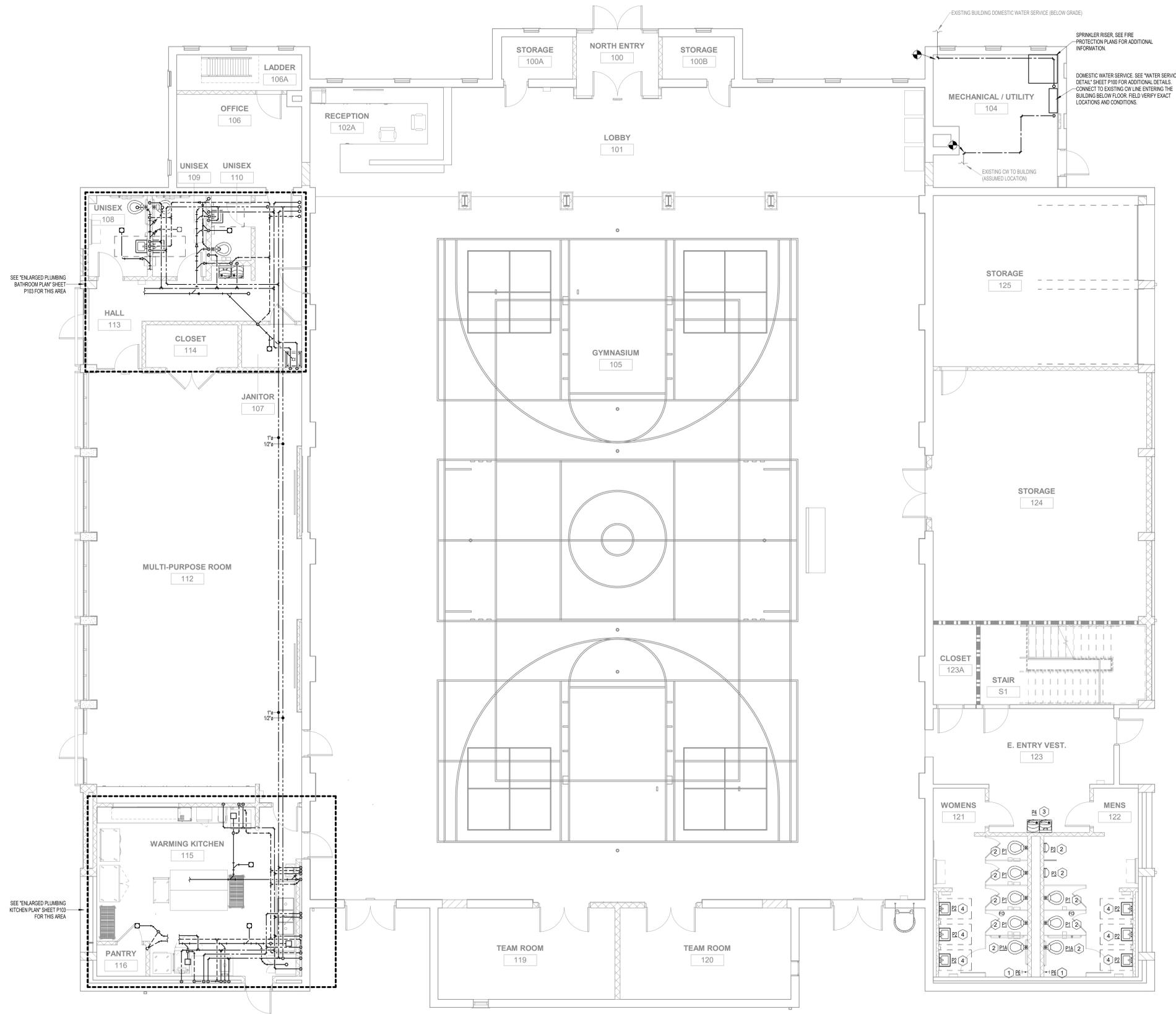
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**A**

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-IN 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.



**CRAIG GAULDEN DAVIS**

Architecture  
 19 Washington Park  
 Greenville, SC 29601  
 Phone 864.242.0761  
 Fax 864.501.9945  
 Email cgd@cgdarch.com

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MAIN LEVEL NEW PLUMBING FLOOR PLAN

**P101**

1 MAIN LEVEL NEW PLUMBING FLOOR PLAN  
 P101 3/16" = 1'-0"



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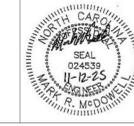
**CRAIG GAULDEN DAVIS**

• Architecture

19 Washington Park  
Greenville, SC 29601  
Phone 864.242.0761  
Fax 864.501.9945  
Email cgd@cjdarch.com

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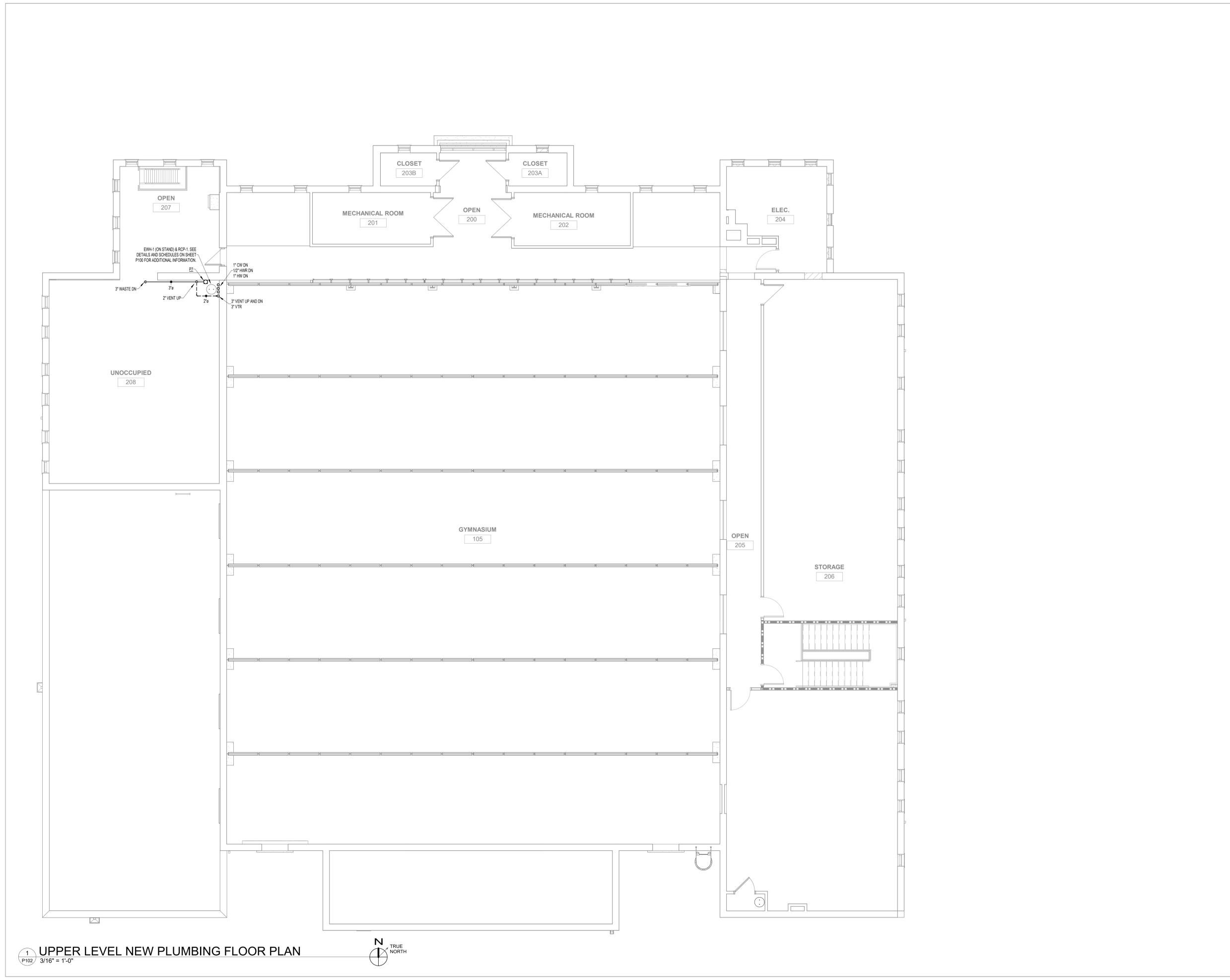
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UPPER LEVEL NEW PLUMBING FLOOR PLAN

**P102**



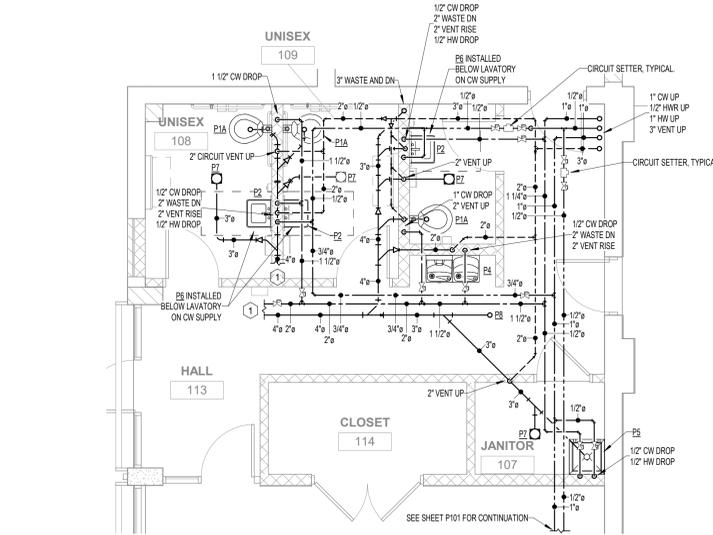
**1**  
P102  
**UPPER LEVEL NEW PLUMBING FLOOR PLAN**  
3/16" = 1'-0"



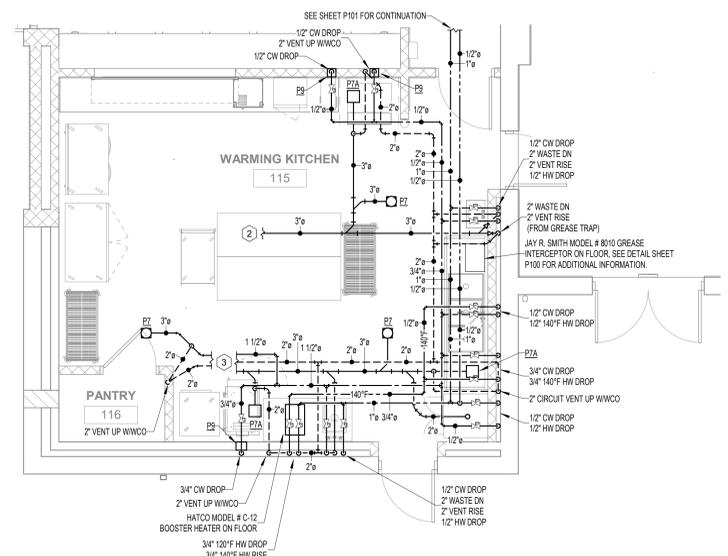
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KEYED PLUMBING CONSTRUCTION NOTES	
NOTES APPLY TO THIS SHEET ONLY	
①	CONNECT NEW 4" WASTE PIPING TO EXISTING WASTE PIPING BELOW FLOOR. CONNECT NEW 2" COLD WATER TO EXISTING PIPING ABOVE CEILING. FIELD VERIFY EXACT LOCATIONS AND CONDITIONS.
②	CONNECT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



1 P103 1/4" = 1'-0" ENLARGED PLUMBING BATHROOM PLAN



2 P103 1/4" = 1'-0" ENLARGED PLUMBING KITCHEN PLAN

**CRAIG GAULDEN DAVIS**  
 Architecture  
 19 Washington Park  
 Greenville, SC 29601  
 Phone 864.242.0761  
 Fax 864.501.9945  
 Email cgd@craigarch.com

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CONSULTANT  
**RNM ENGINEERS**  
 Reece, Noland & McElrath, Inc.  
 80 MAIN STREET CANTON, SOUTH CAROLINA 29716  
 PHONE: 828.495.4677 FAX: 828.495.4677  
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ENLARGED PLUMBING PLANS

**P103**

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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.	

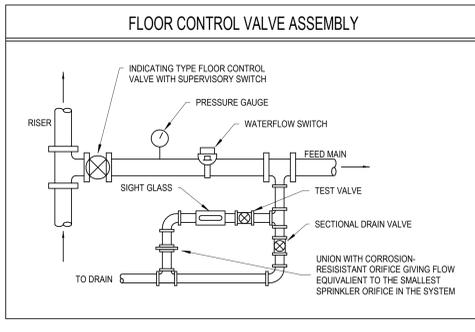
- GENERAL FIRE PROTECTION NOTES**
1. THIS CONTRACTOR SHALL PROVIDE NEW SPRINKLERS IN AREA OF CONSTRUCTION PER NFPA 13, LIGHT HAZARD AND AS NOTED ON PLANS.
  2. NEW SPRINKLER HEADS TO BE FLAT CONCEALED TYPE WITH WHITE CAPS IN AREAS WITH CEILINGS AND ROUGH BRASS IN STORAGE AREAS WITH NO CEILING.
  3. NO 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 ULTIMOST 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.



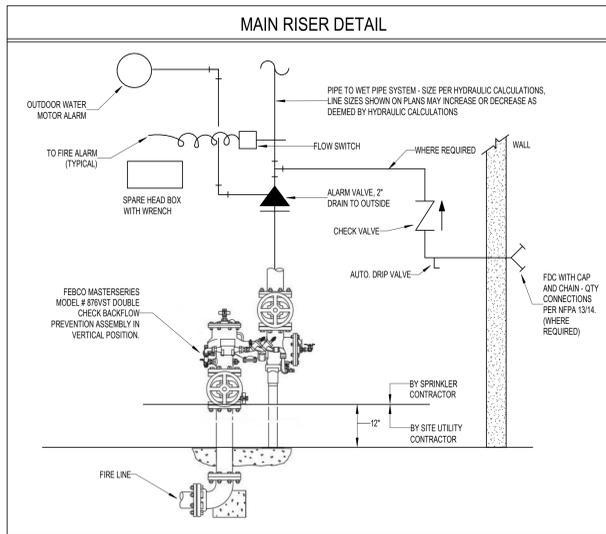
**FLOW TEST**

**Canton Fire Department**

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



NOTE: THIS IS A CRITERIA DRAWING TO SHOW AREAS TO BE SPRINKLED. INSTALLING CONTRACTOR TO PROVIDE ALL SUBMITTALS (INSTALLATION DRAWINGS, CALCULATIONS, ETC.) REQUIRED FOR PERMIT AND INSTALLATION.

**CRAIG GAULDEN DAVIS**  
Architecture

19 Washington Park  
Greenville, SC 29601  
Phone 864.242.0761  
Fax 864.501.9945  
E-mail [cgd@gdarch.com](mailto:cgd@gdarch.com)

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**RNM ENGINEERS**  
Reece, Noland & McElrath, Inc.  
300 MAIN STREET CANTON, SOUTH CAROLINA 29716  
PHONE: 828.495.4877 FAX: 828.291.0170  
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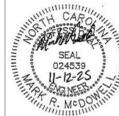
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FIRE PROTECTION CRITERIA, NOTES, AND SPECIFICATIONS

**FP100**

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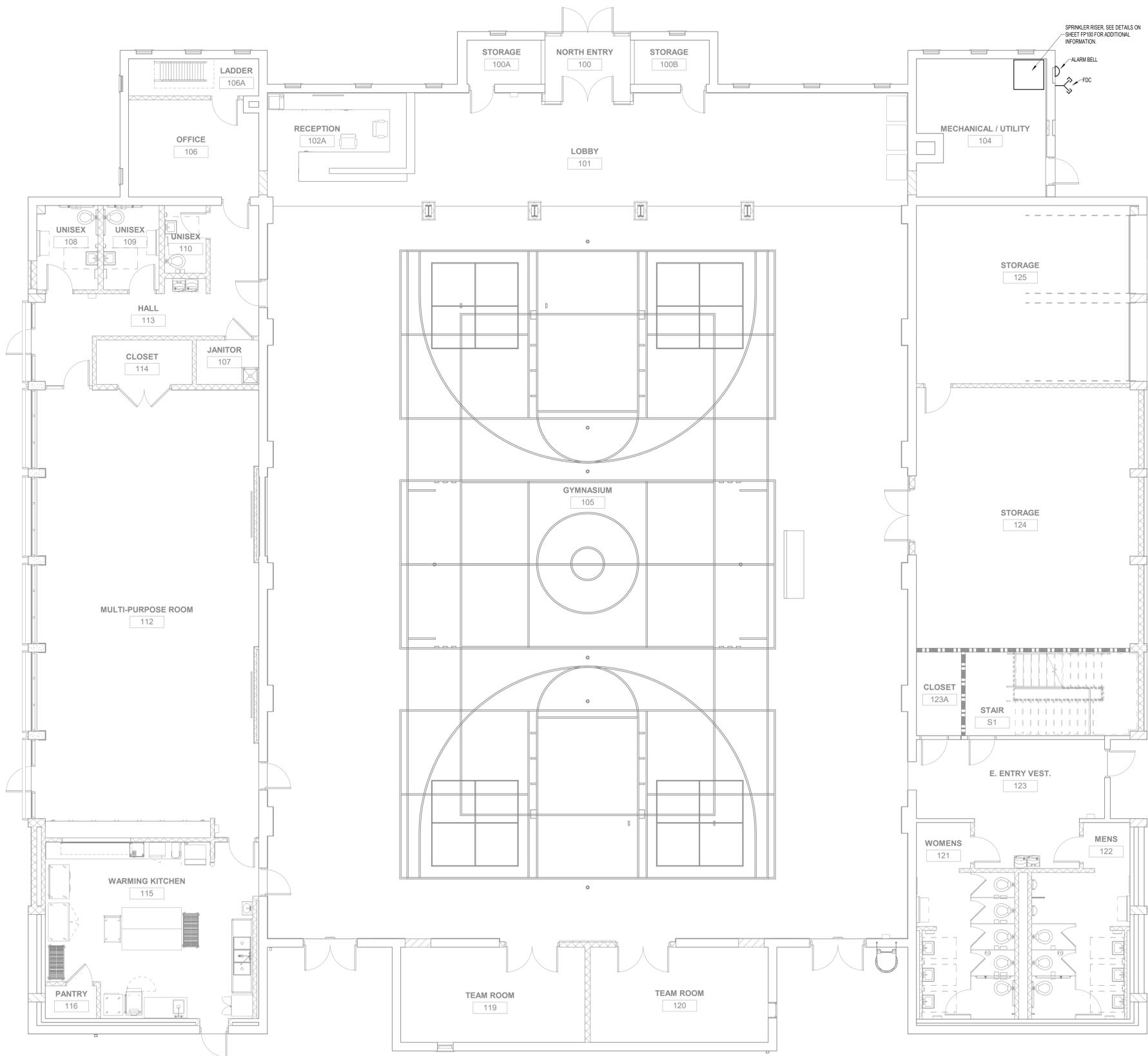
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**MAIN LEVEL NEW FIRE PROTECTION FLOOR PLAN**

**FP101**



SPRINKLER RISER. SEE DETAILS ON SHEET FP100 FOR ADDITIONAL INFORMATION.

ALARM BELL  
FDC

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

7 6 5 4 3 2 1

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**CRAIG GAULDEN DAVIS**

• Architecture

19 Washington Park  
Greenville, SC 29601  
Phone 864.242.0761  
Fax 864.501.9945  
E-mail cgd@craigarch.com

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**TOWN OF CANTON**

**ARMORY COMMUNITY CENTER RENOVATION**

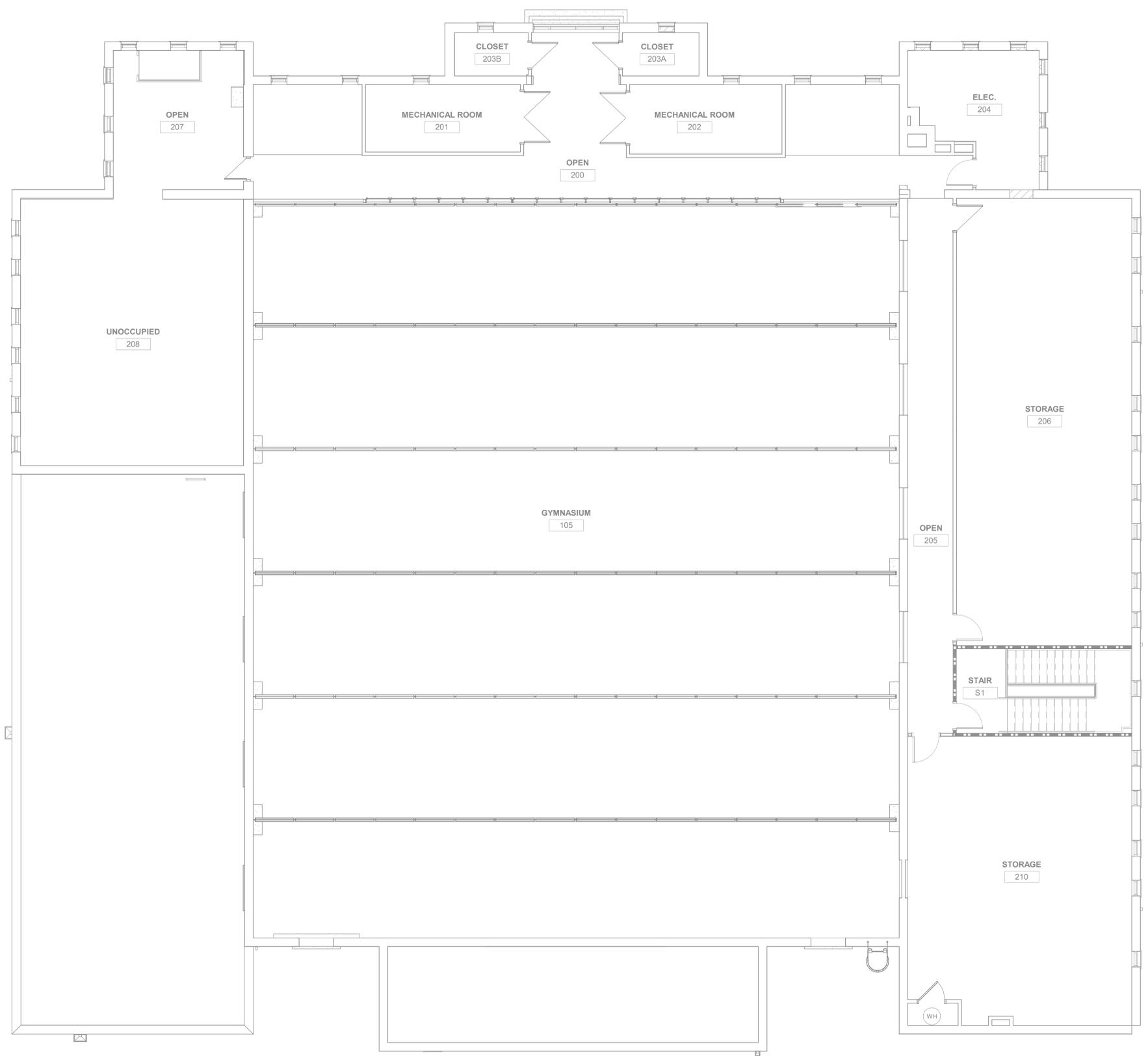
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DATE	MARK	DESCRIPTION

ISSUE: CONSTRUCTION DOCUMENTS  
DATE: 11/12/2025  
PROJECT NO: 23029  
DRAWN BY: JRW  
CHECKED BY: MRM

UPPER LEVEL NEW FIRE PROTECTION FLOOR PLAN

**FP102**



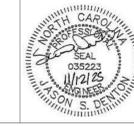
**1** UPPER LEVEL NEW FIRE PROTECTION FLOOR PLAN  
FP102 3/16" = 1'-0"  
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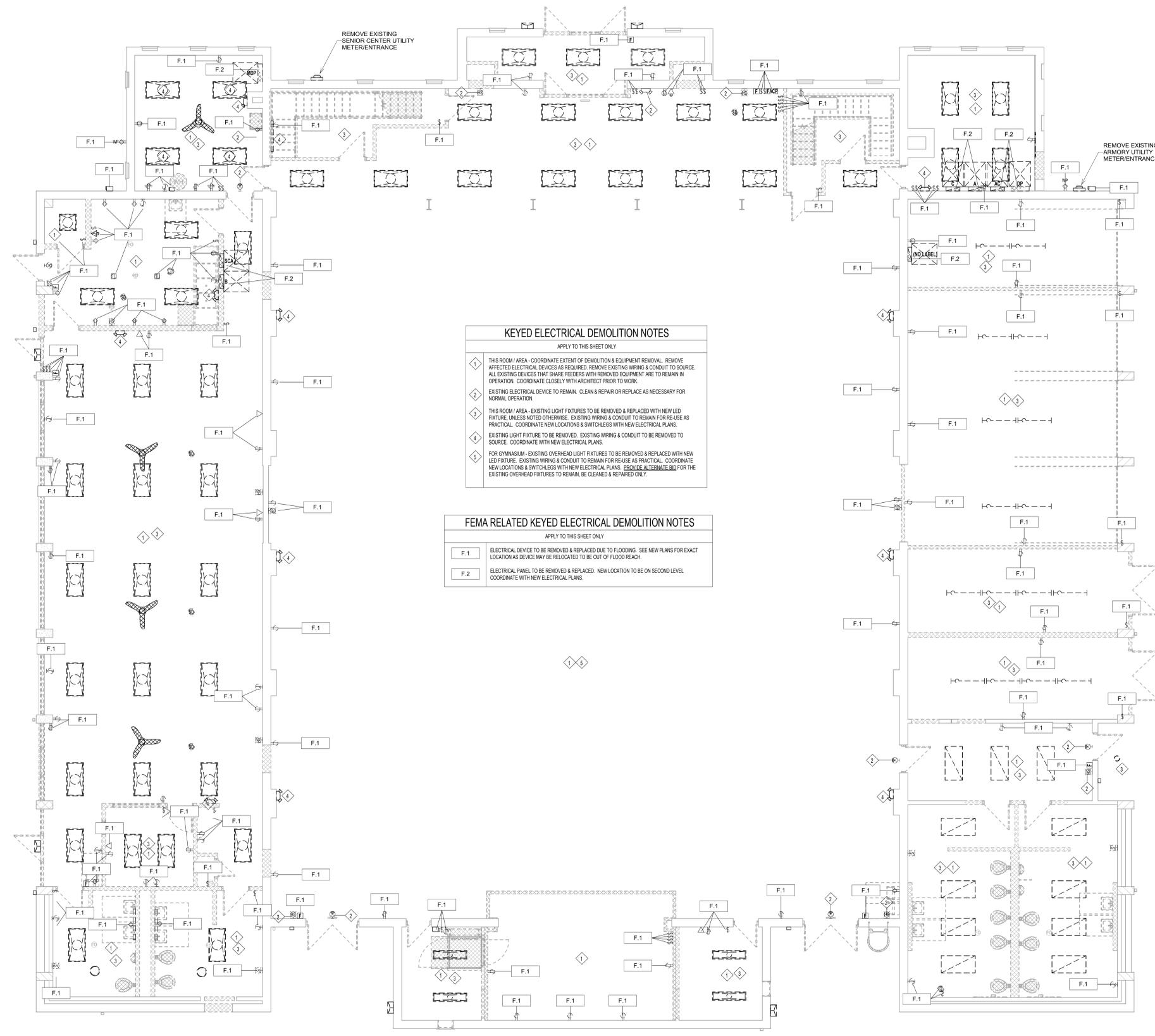
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ISSUE: CONSTRUCTION DOCUMENTS  
DATE: 11/12/2025  
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DRAWN BY: JWC  
CHECKED BY: JSD

MAIN LEVEL ELECTRICAL DEMOLITION PLAN

**ED101**



**KEYED ELECTRICAL DEMOLITION NOTES**  
APPLY TO THIS SHEET ONLY

- 1 THIS ROOM / AREA - COORDINATE EXTENT OF DEMOLITION & EQUIPMENT REMOVAL. REMOVE AFFECTED ELECTRICAL DEVICES AS REQUIRED. REMOVE EXISTING WIRING & CONDUIT TO SOURCE. ALL EXISTING DEVICES THAT SHARE FEEDERS WITH REMOVED EQUIPMENT ARE TO REMAIN IN OPERATION. COORDINATE CLOSELY WITH ARCHITECT PRIOR TO WORK.
- 2 EXISTING ELECTRICAL DEVICE TO REMAIN. CLEAN & REPAIR OR REPLACE AS NECESSARY FOR NORMAL OPERATION.
- 3 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 & SWITCHES WITH NEW ELECTRICAL PLANS.
- 4 EXISTING LIGHT FIXTURE TO BE REMOVED. EXISTING WIRING & CONDUIT TO BE REMOVED TO SOURCE. COORDINATE WITH NEW ELECTRICAL PLANS.
- 5 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 & SWITCHES WITH NEW ELECTRICAL PLANS. PROVIDE ALTERNATE BID FOR THE EXISTING OVERHEAD FIXTURES TO REMAIN, BE CLEANED & REPAIRED ONLY.

**FEMA RELATED KEYED ELECTRICAL DEMOLITION NOTES**  
APPLY TO THIS SHEET ONLY

- F.1 ELECTRICAL DEVICE TO BE REMOVED & REPLACED DUE TO FLOODING. SEE NEW PLANS FOR EXACT LOCATION. DEVICE MAY BE RELOCATED TO BE OUT OF FLOOD REACH.
- F.2 ELECTRICAL PANEL TO BE REMOVED & REPLACED. NEW LOCATION TO BE ON SECOND LEVEL. COORDINATE WITH NEW ELECTRICAL PLANS.

**MAIN LEVEL ELECTRICAL DEMOLITION PLAN**  
1 ED101 3/16" = 1'-0"

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**CRAIG GAULDEN DAVIS**

• Architecture

19 Washington Park  
Greenville, SC 29601  
Phone 864.242.0761  
Fax 864.501.9945  
Email cgd@cgdarch.com

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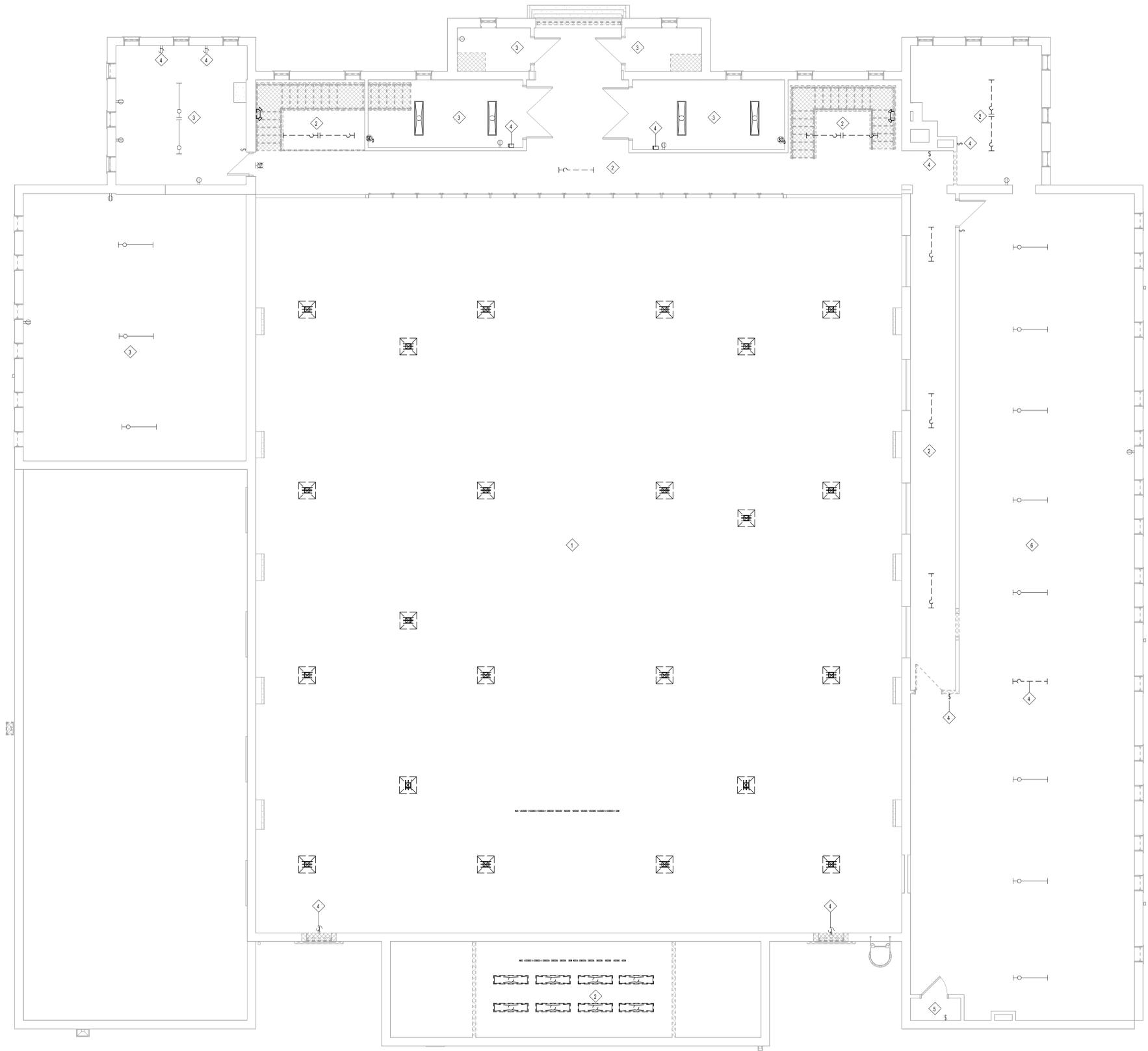
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UPPER LEVEL ELECTRICAL DEMOLITION PLAN

**ED102**



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.

**UPPER LEVEL ELECTRICAL DEMOLITION PLAN**

1  
ED102  
3/16" = 1'-0"

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**CRAIG GAULDEN DAVIS**

• Architecture

19 Washington Park  
Greenville, SC 29601  
Phone 864.242.0761  
Fax 864.501.9945  
Email cgd@craigarch.com

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**TOWN OF CANTON**

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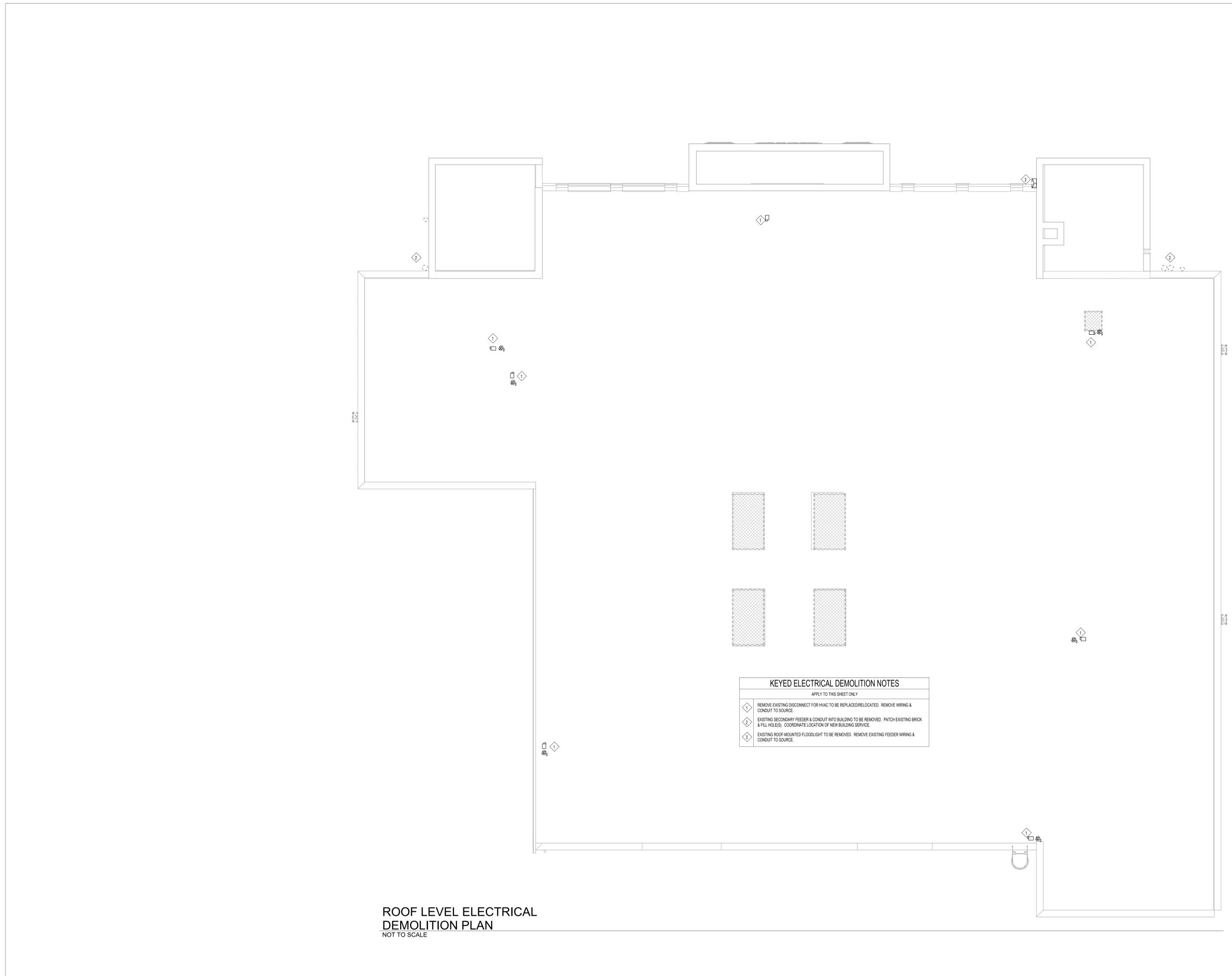
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ROOF LEVEL ELECTRICAL DEMOLITION PLAN

**ED103**



KEYED ELECTRICAL DEMOLITION NOTES	
APPLY TO THIS SHEET ONLY	
1	REMOVE EXISTING DISCONNECT FOR HVAC TO BE REPLACED/RELOCATED. REMOVE WIRING & CONDUIT TO SOURCE.
2	EXISTING SECONDARY FEEDER & CONDUIT INTO BUILDING TO BE REMOVED. PATCH EXISTING BRICK & FILL HOLES. COORDINATE LOCATION OF NEW BUILDING SERVICE.
3	EXISTING ROOF-MOUNTED FLOODLIGHT TO BE REMOVED. REMOVE EXISTING FEEDER WIRING & CONDUIT TO SOURCE.

**ROOF LEVEL ELECTRICAL DEMOLITION PLAN**  
NOT TO SCALE

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## GENERAL ELECTRICAL NOTES

- 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.
- CONTRACTOR SHALL COORDINATE WITH ALL OTHER CONTRACTORS AND TRADES TO LOCATE HIS WORK TO AVOID CONFLICTS.
- CONTRACTOR TO COORDINATE FIXTURE MOUNTING METHOD (FLANGED, GRID, SPLINE, ETC.) WITH TYPE OF CEILING ACTUALLY INSTALLED IN THESE AREAS, TYPICAL.
- THIS CONTRACTOR SHALL NOT UTILIZE "THRU TYPE" OUTLET BOXES WHERE DEVICES ARE SHOWN BACK TO BACK IN SOUND INSULATED OR SOUND SECURE AREAS, TYPICAL.
- 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.
- SMOKE DETECTORS SHOULD 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 FURTHER AWAY FROM HIGH VELOCITY AIR SUPPLIES.
- 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 ARCHITECT AT NO ADDITIONAL COST TO THE OWNER. ELECTRICAL DRAWINGS ARE NOT TO BE SCALED FOR SUCH LOCATIONS.
- 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.
- LIGHT FIXTURE WHIPS SHALL NOT EXCEED 6" IN LENGTH.
- ALL CONDUITS AND RACEWAYS ARE TO BE CONCEALED UNLESS OTHERWISE NOTED OR APPROVED BY THE DESIGNER.
- ALL CONDUITS, SLEEVES, INSERTS, OUTLET BOXES, AND OTHER ROUGH-IN MATERIALS SHALL BE INSTALLED AS BUILDING CONSTRUCTION PROGRESSES.
- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 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.
- PROVIDE POWER FOR VAV BOXES FROM NEAREST RECEPTACLE CIRCUIT. COORDINATE QUANTITIES AND LOCATIONS WITH MECHANICAL CONTRACTOR.
- ARC FLASH LABELING TO BE PROVIDED IN ACCORDANCE WITH NEC 110.16A AND NEC 110.16B.
- THERE SHALL BE NO CONDUIT RUNS INSTALLED HORIZONTALLY IN SLABS.
- ALL CONDUIT TO BE INSTALLED WITH J-BOXES/PULL BOXES LOCATED IN AREAS WITH LAY CEILING. SEE ARCHITECTURAL DRAWINGS FOR CEILING CONSTRUCTION.
- ALL FLOOR/ROOF/FLOORWALL PENETRATIONS TO BE MADE/INSTALLED PER STRUCTURAL DRAWINGS.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH MANUFACTURER TO DETERMINE ALL BREAKER TRIP SETTINGS.
- 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 METALUX #24C25B-SC73-UV	LED 3000/5000/4000K 4100/4200/6000 Lm	RECESSED	2027/35	ELECTRONIC LED DRIVER - 0-10V 1% DIMMING
B	2x2 RECESSED TROFFER, DIRECT/INDIRECT CENTER BASKET, LED, SELECTABLE LUMENS & COLOR TEMPERATURE, 0-10V 1% DIMMING METALUX #22C22C-SC73-UV	LED 3000/5000/4000K 2800/3000/4800 Lm	RECESSED	283/49	ELECTRONIC LED DRIVER - 0-10V 1% DIMMING
C	2x4 RECESSED FLAT PANEL, EDGE LIT, LED, SELECTABLE LUMENS & COLOR TEMPERATURE, 0-10V 1% DIMMING METALUX #24FPL2C73-UV	LED 3000/5000/4000K 3100/4500/6200 Lm	RECESSED	2740/56	ELECTRONIC LED DRIVER - 0-10V 1% DIMMING
D	2x2 RECESSED FLAT PANEL, EDGE LIT, LED, SELECTABLE LUMENS & COLOR TEMPERATURE, 0-10V 1% DIMMING METALUX #22FPL2C73-UV	LED 3000/5000/4000K 1700/2400/3400 Lm	RECESSED	1922/31	ELECTRONIC LED DRIVER - 0-10V 1% DIMMING
E	LED EDGE LIT LIGHT, UNIVERSAL MOUNTING, RED TIEBACK, V-RACE, CLEAR BACKGROUND ON SINGLE FACE, MIRROR ON DOUBLE FACE, (W/ FACE, (C/W) SURFACES, HUE/STX	LED INCLUDED	(C) = CEILING (W) = WALL 7'-6" AFF OR AS REQUIRED	2	ELECTRONIC LED DRIVER
F	DUAL-HEAD EMERGENCY LIGHT, LED, WHITE FINISH HOUSING, 90-MINUTE BATTERY (WIRE GUARD PROVIDED FOR GYM FIXTURES) SURE LITES #E517R	LED INCLUDED	(W) = WALL 7'-6" AFF OR AS REQUIRED	2	ELECTRONIC LED DRIVER
G	17 ROUND GYM PENDANT, LED, STEM MOUNT, SELECTABLE LUMENS & COLOR TEMPERATURE, 0-10V 1% DIMMING, BLACK FINISH, WIRE GUARD METALUX #PHS-1218-MV-L4505D-BLK UHS-WG13	LED 4000/5000K 130X15.4KX17.9K Lm	STEM MOUNT, BOTTOM OF FIXTURE @ 16'-0" AFF	84/103/145	ELECTRONIC LED DRIVER - 0-10V 1% DIMMING
H	24" VANITY, WALL MOUNT, 680 LUMENS, 3500K COLOR TEMPERATURE, 0-10V 1% DIMMING, X-FINISH BY ARCHITECT EUREKA #E52-24LED-15-24-120V-DV-SL-X-WH-9398B	LED 3500K 680 Lm	WALL 6'-0" AFF, COORD. BY ARCHITECT	5	ELECTRONIC LED DRIVER - 0-10V 1% DIMMING
J	4" RECESSED DOWNLIGHT, ROUND APERTURE, 1000 LUMENS, 3500K COLOR TEMPERATURE, 0-10V 1% DIMMING, WIDE BEAM, CLEAR SEMI-SPECULAR FINISH PORTFOLIO #LDC4010C03010 WITH	LED 3500K 1500 Lm	RECESSED	10	ELECTRONIC LED DRIVER - 0-10V 1% DIMMING
K	6" RECESSED DOWNLIGHT, ROUND APERTURE, 3000 LUMENS, 3500K COLOR TEMPERATURE, 0-10V 1% DIMMING, WIDE BEAM, CLEAR SEMI-SPECULAR FINISH PORTFOLIO #LDC03010 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 METALUX #R8966-SL18SCT3	LED 3000/5000/4000K 4000/6000/8000 Lm	RECESSED	4162/75	ELECTRONIC LED DRIVER - 0-10V 1% DIMMING
M	2" LED STRIP LIGHT, CLEAR LENS, 1000 LUMENS, 3500K COLOR TEMPERATURE, 0-10V 1% DIMMING METALUX #25NLED-LDS-18SL-C-UVN-1835-CD1	LED 3500K 1800 Lm	SURFACE, OR CHAIN HUNG @ 6'-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 METALUX #45NLED-LDS-30SL-C-UVN-1835-CD1	LED 3500K 3000 Lm	SURFACE, OR CHAIN HUNG @ 6'-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 #XT08B-W-FC1-CBP	LED 4000K 6000 Lm	WALL 10'-0" AFF, OR AS SPECIFIED BY ARCHITECT	58	EMERGENCY COLD WEATHER DRIVER
Q	EXTERIOR WALL PACK, LED, LOW PROFILE, FULL CUTOFF, 2700 LUMENS, 4000K COLOR TEMPERATURE, COLD WEATHER EMERGENCY DRIVER, PHOTOCELL, LUMARK #XT08B-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, 660 LUMENS, 4000K COLOR TEMPERATURE, BRONZE FINISH, COLD WEATHER EMERGENCY DRIVER, OCL LIGHTING #A11-010A-24-GV-BNPL-LED24K-UVN-DM1-SIB7PS	LED 4000K 660 Lm	WALL 8'-0" AFF, TO CENTER OF FIXTURE	20	EMERGENCY COLD WEATHER DRIVER
S	36" EXTERIOR WALL SCONCE, VERTICAL MOUNT, LED, 1000 LUMENS, 4000K COLOR TEMPERATURE, BRONZE FINISH, COLD WEATHER EMERGENCY DRIVER, W-36MM BACKUP BATTERY OCL LIGHTING #A11-010A-36-GV-BNPL-LED36K-UVN-DM1-SIB7PS	LED 4000K 1000 Lm	WALL 8'-0" AFF, TO CENTER OF FIXTURE	30	EMERGENCY COLD WEATHER DRIVER
T	4" WAND, RESISTANT, WALL MOUNT, WRAP, LED, SELECTABLE LUMENS & COLOR TEMPERATURE METALUX #AWS-13C33-UV	LED 3500/4000/5000K 4000/4800/5800 Lm	WALL 8'-0" AFF, TO CENTER OF FIXTURE	323/48	ELECTRONIC LED DRIVER

**NOTES:** ELECTRICAL CONTRACTOR TO FURNISH AND MAKE PROVISIONS FOR THE INSTALLATION OF (3) ADDITIONAL TYPE "E1" FIXTURES & (2) ADDITIONAL TYPE "E2", DUAL HEAD EMERGENCY FIXTURES.  
FIXTURES WITH "NL" DESIGNATION ARE TO HAVE EMERGENCY BACKUP BATTERY OPTION INSTALLED.  
EQUALS MAY BE SUBMITTED BY ACUTY BRAND, PHILIPS LIGHTING PRODUCTS, HUBBELL, H.E. WILLIAMS, EDISON PRICE, LUMINARE, ALM, FINELITE LIGHTING SYSTEMS, METALUM, LITHONIA LIGHTING, FOCAL POINT, SONITEC, AND OLCORIDE.  
COORDINATE LOCATIONS & MOUNTING HEIGHTS OF ALL EXTERIOR FIXTURES WITH ARCHITECTURAL ELEVATIONS & LIGHTING PLANS.  
WHERE FIXTURES ARE INSTALLED IN GYM/WOOD, ETC., TO PROVIDE APPROPRIATE INSTALLATION KIT, COORDINATE WITH ARCHITECTURAL RCP.

## SWITCHING

SYMBOL	DESCRIPTION	MOUNTING - GIVEN TO TOP OF DEVICE (OR AS NOTED)
S	SWITCH, SINGLE POLE, 20 AMP, COMMERCIAL DUTY, HUBBELL #H8121, 120/277 VOLT RATED, MATCH SURROUNDING WALL COLOR	4'-0" AFF
S <sub>3</sub>	SWITCH, THREE WAY, 20 AMP, COMMERCIAL DUTY, HUBBELL #H8123, 120/277 VOLT RATED, MATCH SURROUNDING WALL COLOR	4'-0" AFF
S <sub>4</sub>	SWITCH, FOUR WAY, 20 AMP, COMMERCIAL DUTY, HUBBELL #H8124, 120/277 VOLT RATED, MATCH SURROUNDING WALL COLOR	4'-0" AFF
S <sub>5</sub>	SWITCHES FOR DUAL LEVEL LIGHTING. SEE ELECTRICAL NOTE 1.	4'-0" AFF
S <sub>OS</sub>	SWITCH, DUAL RELAY WALL SWITCH DUAL TECHNOLOGY OCCUPANCY SENSOR. COOPER CONTROLS #RWD-1001-MK-A, 120/277 VOLT RATED. WIRE PER MFG'S RECOMMENDATIONS. SEE ELECTRICAL NOTE 1.	4'-0" AFF
S <sub>OS1</sub>	SWITCH, SINGLE RELAY WALL SWITCH DUAL TECHNOLOGY OCCUPANCY SENSOR. COOPER CONTROLS #RWD-1001-MK-A, 120/277 VOLT RATED. WIRE PER MFG'S RECOMMENDATIONS.	4'-0" AFF
S <sub>150</sub>	VACUANCY SENSOR WALL SWITCH WITH 10V DIMMER, LEGRAND WATTS TOPPER #W3111, 120/277 VOLT RATED. WIRE PER MFG'S RECOMMENDATIONS.	4'-0" AFF
S <sub>0</sub>	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 <sub>03</sub>	THREE WAY DIMMER LUTRON "NOVA" DIMMER INT-103P SERIES (INCANDESCENT) OR LUTRON INT-103P SERIES (FLUORESCENT & LED)	4'-0" AFF
S <sub>1V</sub>	SWITCH, DIMM VOLTAGE 0-10V, 1200W@120V, 1680W@277V, SLIDE DIMMER, GANG ONLY & WIRE PER MFG'S RECOMMENDATIONS. GREENGATE #VBS0-D10SLD-COLOR.	4'-0" AFF
S <sub>1V</sub>	FULL FEATURE DUAL TECHNOLOGY SENSOR WITH 360° COVERAGE COOPER CONTROLS #WAC-07-2000. ALSO REQUIRES GREENGATE SWITCHPACK PER LOAD AND #B's.	CEILING SURFACE
S <sub>1V</sub>	FULL FEATURE DUAL TECHNOLOGY VACANCY SENSOR WITH 360° COVERAGE COOPER CONTROLS #WAC-07-2000 WIRE FOR VACANCY MANUAL ON. ALSO REQUIRES GREENGATE SWITCHPACK PER LOAD AND #B's.	CEILING SURFACE
S <sub>1V</sub>	FULL FEATURE DUAL TECHNOLOGY SENSOR. COOPER CONTROLS #WAC-07-120W-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

SYMBOL	DESCRIPTION
X	2x4, 2x2 LIGHTING FIXTURE ON NORMAL CIRCUIT.
X <sub>2</sub>	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 EGRESS CIRCUIT. MULTIBALLAST FIXTURES: CONNECT ONE BALLAST (INSIDE LAMPS) AND BATTERY BACK UP, IF APPLICABLE, TO UNSWITCHED LEG OF SAME BRANCH CIRCUIT. CONNECT OTHER BALLAST TO SWITCHED AREA LIGHTS.
X <sub>2</sub>	EXIT SIGN AS NOTED IN SYMBOL SCHEDULE

## TELEPHONE/DATA/COMMUNICATIONS

SYMBOL	DESCRIPTION	MOUNTING - GIVEN TO TOP OF DEVICE (OR AS NOTED)
D	DATA OUTLET BOX WITH (2) CAT6 DATA DROP IN 1" CONDUIT. SUBSCRIPT NUMBER DENOTES QUANTITY OF DATA DROPS IF OTHER THAN (2). PROVIDE BOX, 1" CONDUIT, OUTLET & DATA WIRE ACCESSIBLE CEILING. SEE DETAIL, SHEET #402.	1'-6" AFF 6" ACT TO BTM WHEN THERE IS NO COUNTER, MNT AT 42" AFF TO BTM
D <sub>1</sub>	DATA OUTLET BOX, PROVIDE BOX, AS NOTED ABOVE, EXCEPT MOUNTING HEIGHT.	1'-6" AFF WALL @ 54" AFF OR 6" ACT TO BTM - WHEN THERE IS NO COUNTER, MNT AT 42" AFF TO BTM
D <sub>2</sub>	TELEPHONE OUTLET BOX, PROVIDE BOX, 1" CONDUIT, SINGLE OUTLET RING & DATA TO ABOVE ACCESSIBLE CEILING. SEE DETAIL, SHEET #402.	1'-6" AFF WALL @ 54" AFF OR 6" ACT TO BTM - WHEN THERE IS NO COUNTER, MNT AT 42" AFF TO BTM
D <sub>3</sub>	TELEPHONE OUTLET BOX, AS NOTED ABOVE, EXCEPT MOUNTING HEIGHT.	1'-6" AFF 6" ACT TO BTM WHEN THERE IS NO COUNTER, MNT AT 42" AFF TO BTM
A	SUBSCRIPT "A" NOTED ADJACENT SYMBOL INDICATES ANALOG TELEPHONE DROP BOXES & DEVICES AS ABOVE EXCEPT TERMINATION.	FLUSH RECESSED
WP	WHERE WP IS NOTED E.C. TO PROVIDE GASKETED BACK BOX, TYPICAL.	
WP	COMBINATION TELEPHONE/DATA OUTLET BOX, PROVIDE BOX, 1" CONDUIT, SINGLE OUTLET RING & DATA TO ABOVE ACCESSIBLE CEILING. SEE DETAIL, SHEET #402.	1'-6" AFF 6" ACT TO BTM WHEN THERE IS NO COUNTER, MNT AT 42" AFF TO BTM
WP	COMBINATION DATA/TELEPHONE OUTLET BOX, AS NOTED ABOVE, EXCEPT MOUNTING HEIGHT.	1'-6" AFF 6" ACT TO BTM WHEN THERE IS NO COUNTER, MNT AT 42" AFF TO BTM
WP	DEVICES AS NOTED ABV, EXCEPT MOUNTING IN CEILING.	
WP	DATA AND/OR ADDITIONAL OUTLET FLOOR BOX. SEE RECEPTACLE SYMBOL SCHEDULE FOR ADDITIONAL INFORMATION. PROVIDE TELEPHONE DEVICES AS NOTED IN SYMBOL SCHEDULE AND COORDINATE WITH OWNER FOR SPECIFIC ADDITIONAL COMPONENT REQUIREMENTS.	FLUSH WITH FLOOR
WP	MAIN DATA RACK. SEE DETAIL, SHEET #402.	CEILING RECESSED
WP	WIRELESS ACCESS POINT. PROVIDE BOX, 1" CONDUIT, SINGLE OUTLET RING & (1) CAT6 CABLE BACK TO NEAREST FLOOR/DATA ROOM. VERIFY ALL LOCATIONS PRIOR TO WORK.	AS REQD
WP	TELEVISION OUTLET BOX, SYSTEM IS PROVIDED BY OWNER, INSTALLED BY OWNERS CONTRACTOR. BOXES, CONDUIT, POWER AND DATA BY ELECTRICAL CONTRACTOR. SEE DETAIL, SHEET #402.	1'-6" AFF 6" ACT TO BTM WHEN THERE IS NO COUNTER, MNT AT 42" AFF TO BTM
WP	TELEVISION OUTLET BOX, AS NOTED ABOVE, EXCEPT MOUNTING HEIGHT.	1'-6" AFF 6" ACT TO BTM WHEN THERE IS NO COUNTER, MNT AT 42" AFF TO BTM
WP	REFERENCE PROVIDING SYSTEM IN ALL ELECTRICAL ROOMS AND IN ROOM ELECTRICAL CONTRACTOR TO PROVIDE MATERIALS AND LABOR AS REQUIRED TO INSTALL A COMPLETE REFERENCE GROUNDING 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 UNITS, NO. 40 BARE COPPER CONDUCTOR ROUTED AROUND THE PERIMETER OF ROOM OR AT THE CONTRACTORS OPTION, BE W/AVE A 3/16" COPPER GROUNDING BUS REFERENCE POINT, NO. 4 COPPER MINIMUM CONNECTION TO EACH PIECE 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 817 OF THE NATIONAL ELECTRIC CODE, TYPICAL.	
WP	IN HEALTH CARE ENVIRONMENTS, ALL ELECTRICAL EQUIPMENT SERVING THE SAME PATIENT AREA (BOTH NEW AND EXISTING) SHALL BE BONDED TOGETHER WITH AN INSULATED COPPER CONDUCTOR NOT LESS THAN #10 IN SIZE, REFER TO NEC, ART. 517.14 FOR ADDITIONAL INFORMATION.	

## ELECTRICAL SUMMARY - ELECTRICAL SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE	DESCRIPTION	PERFORMANCE
ENR CODE:	■ PRESCRIPTIVE	□ PERFORMANCE
ASHRAE 90.1:	□ PRESCRIPTIVE	□ PERFORMANCE
<b>LIGHTING SCHEDULE</b>		
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 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		
■ C606.2 MORE EFFICIENT HVAC EQUIPMENT		
■ C606.3 REDUCED LIGHTING POWER DENSITY	Needs to be 10%, or better, below allowed	
■ C606.4 ENHANCED DIGITAL LIGHTING CONTROLS		
■ C606.5 ON-SITE SUPPLY OF RENEWABLE ENERGY		
■ C606.6 DEDICATED OUTDOOR AIR SYSTEM		
■ C606.7 REDUCED ENERGY USE IN SERVICE WATER HEATING		
■ C606.7.1 LOAD FRACTION		

## ABBREVIATIONS

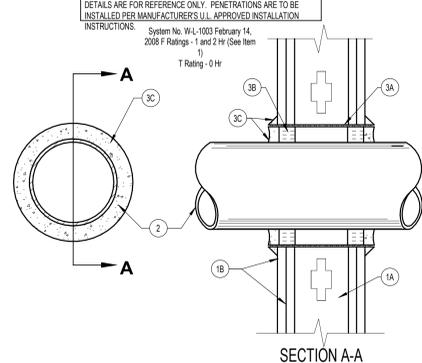
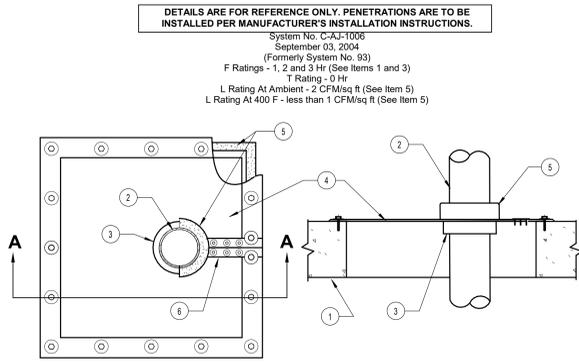
(X)	EXISTING	AF	ABOVE FINISHED FLOOR	B	BOILER	CKT	CIRCUIT	CU	COPPER	EI	ELECTRICAL INTERLOCK	FDS	FUSED DISCONNECT SWITCH	HOA	HANDS-OFF-AUTO SELECTOR SWITCH	LRA	LOCKED ROTOR AMPS	MCCB	MOLDED CASE CIRCUIT BREAKER	NFOS	NON-FUSED DISCONNECT SWITCH	PHS	PHASE	SW	SWITCH	VA	VOLT AMPS
(N)	NEW	ABV	ABOVE FINISHED GRADE	BAS	BUILDING AUTOMATION SYSTEM	CLG	CEILING	CM	CABINET UNIT HEATER	EM	EMERGENCY	FLO	FULL LOAD AMPS	IM	IN MINIMUM	INT	INTERLOCK	TRAP	TRAP FILTERING	VAR	VARIABLE FREQUENCY DRIVE						
(D)	DEMOLISH	AFR	ABOVE FINISHED ROOF	BC	BYPASS CONTACTOR	CO	CONDUIT ONLY	FL	DISTRIBUTION PANEL	EDL	END OF LINE RESISTOR	FL	FLOOR	MLO	MAIN LUG ONLY	MT	MOUNT	NR	NORMALLY OPEN	NR	NORMALLY CLOSED	PAR	PARALLEL	TP	TYPICAL	W	WATTS
(R)	RELOCATE	AUJ	AUTHORITY HAVING JURISDICTION	BLG	BUILDING	DS	DISCONNECT SWITCH	EP	EXPLOSION PROOF	FZ	FREESTART	FL	FLOOR	MT	MOUNT	NR	NORMALLY OPEN	NR	NORMALLY CLOSED	PAR	PARALLEL	TP	TYPICAL	W	WATTS		
AMPS	AMPERES	AMP	AMPERES	BLG	BUILDING	COMP	COMPRESSOR	CC	EQUIPMENT BRANCH	DWG	DRAWING	CC	CENTRAL CONTRACTOR	MTG	MOUNTING	MTG	MOUNTING	MTG	MOUNTING	MTG	MOUNTING	MTG	MOUNTING	MTG	MOUNTING	MTG	MOUNTING
AC	AIR CONDITIONING UNIT	AC	AMPS INTERRUPTING CAPACITY	C	CONDUIT	CPT	CONTROL POWER TRANSFORMER	EC	ELECTRICAL CONTRACTOR	EW	ELECTRICAL WATER COOLER	EXP	EXPLOSION PROOF	FL	FLOOR	FL	FLOOR	FL	FLOOR	FL	FLOOR	FL	FLOOR	FL	FLOOR	FL	FLOOR
ACT	AUTO CENTER TUNTS	ATS	AUTOMATIC TRANSFER SWITCH	CB	CIRCUIT BREAKER	CR	CRITICAL BRANCH	EDP	ELECTRICAL DISTRIBUTION PANEL	EXT	EXTERIOR	EXP	EXPLOSION PROOF	FL	FLOOR	FL	FLOOR	FL	FLOOR	FL	FLOOR	FL	FLOOR	FL	FLOOR	FL	FLOOR
AD	AUTOMATIC DOOR	AV	AUDIO VISUAL	CH	CHILLER	CH	CHILLER	CT	CURRENT TRANSFORMER	EF	EXHAUST FAN	FCU	FAN COIL UNIT	GND	GROUND	GND	GROUND	GND	GROUND	GND	GROUND	GND	GROUND	GND	GROUND	GND	GROUND

## 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"

## RECEPTABLES

SYMBOL	DESCRIPTION	MOUNTING - GIVEN TO TOP OF DEVICE (OR AS NOTED)
R	RECEPTACLE, SPECIFICATION GRADE, DUPLEX, PASS & SEYMOUR #P55820 20 AMPERE RATED, GROUNDING TYPE 2 POLE, 3 WIRE, 125 VOLTS	1'-6" AFF
R <sub>1</sub>	RECEPTACLE, AS ABOVE EXCEPT MOUNTING HEIGHT. VERIFY W/CASEWORK PRIOR TO ROUGH-IN.	6" ACT TO BTM, WHEN NO CNTR, MNT AT 42" AFF TO BTM
R <sub>2</sub>	RECEPTACLE, AS ABOVE EXCEPT MOUNTED IN CEILING	CEILING
R <sub>3</sub>	RECEPTACLE, AS ABOVE EXCEPT MOUNTED HORIZONTAL	1'-6" AFF
R <sub>4</sub>	QUADRAPLEX RECEPTACLE, SPECIFICATION GRADE, (2) DUPLEX, PASS & SEYMOUR #P55820, 20 AMPERE RATED, GROUNDING TYPE 2 POLE, 3 WIRE, 125 VOLTS	1'-6" AFF
R <sub>5</sub>	RECEPTACLE, AS ABOVE EXCEPT MOUNTING HEIGHT. VERIFY W/CASEWORK PRIOR TO ROUGH-IN.	6" ACT TO BTM, WHEN NO CNTR, MNT AT 42" AFF TO BTM
R <sub>6</sub>	COMBINATION RECEPTACLE / HDMI / TV OUTLET BOX, PROVIDE BOX, RECEPTACLE AS DESCRIBED ABOVE, AND COMBINATION COVER PLATE. PROVIDE 3/4" CONDUIT W/ PULL WIRE TO ABOVE ACCESSIBLE CEILING. COORDINATE W/ OWNER PRIOR TO ROUGH-IN.	6" ACT TO BTM, WHEN NO CNTR, MNT AT 42" AFF TO BTM
R <sub>7</sub>	RECEPTACLE, SPECIFICATION GRADE, TAMPER-RESISTANT DUPLEX WITH (2) USB PORTS, PASS & SEYMOUR #H520X2, 20 AMPERE RATED, GROUNDING TYPE 2 POLE, 3 WIRE, 125 VOLTS	1'-6" AFF
R <sub>8</sub>	RECEPTACLE, AS ABOVE EXCEPT MOUNTING HEIGHT. VERIFY W/CASEWORK PRIOR TO ROUGH-IN.	6" ACT TO BTM, WHEN NO CNTR, MNT AT 42" AFF TO BTM
R <sub>9</sub>	RECEPTACLE, SPECIFICATION GRADE, TAMPER-RESISTANT DUPLEX WITH (2) USB PORTS, PASS & SEYMOUR #H520X2, 20 AMPERE RATED, GROUNDING TYPE 2 POLE, 3 WIRE, 125 VOLTS	1'-6" AFF
R <sub>10</sub>	RECEPTACLE, AS ABOVE EXCEPT MOUNTING HEIGHT. VERIFY W/CASEWORK PRIOR TO ROUGH-IN.	6" ACT TO BTM, WHEN NO CNTR, MNT AT 42" AFF TO BTM
R <sub>11</sub>	QUADRAPLEX RECEPTACLE, SPECIFICATION GRADE, TAMPER-RESISTANT WITH USB PORTS, (2) PASS & SEYMOUR #H520X2, 20 AMPERE RATED, GROUNDING TYPE 2 POLE, 3 WIRE, 125 VOLTS	1'-6" AFF
R <sub>12</sub>	RECEPTACLE, AS ABOVE EXCEPT MOUNTING HEIGHT. VERIFY W/CASEWORK PRIOR TO ROUGH-IN.	6" ACT TO BTM, WHEN NO CNTR, MNT AT 42" AFF TO BTM
R <sub>13</sub>	DUPLEX RECEPTACLE, TAMPER RESISTANT, PASS & SEYMOUR #TR63, 20 AMPERE RATED, GROUNDING TYPE 2 POLE, 3 WIRE, 125 VOLTS	1'-6" AFF
R <sub>14</sub>	RECEPTACLE, AS ABOVE EXCEPT MOUNTING HEIGHT. VERIFY W/CASEWORK PRIOR TO ROUGH-IN.	6" ACT TO BTM, WHEN NO CNTR, MNT AT 42" AFF TO BTM
R <sub>15</sub>	GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE, 20 AMP, FEED-THRU TYPE, SPECIFICATION GRADE, PASS & SEYMOUR #2956	1'-6" AFF
R <sub>16</sub>	RECEPTACLE, AS ABOVE EXCEPT MOUNTING HEIGHT. VERIFY W/CASEWORK PRIOR TO ROUGH-IN. COFF-COFFEE MAKER DEDICATED CIRCUIT	6" ACT TO BTM, WHEN NO CNTR, MNT AT 42" AFF TO BTM
R <sub>17</sub>	DEDICATED CIRCUIT MICROWAVE RECEPTABLE, SAME AS ABOVE EXCEPT MOUNTING HEIGHT. VERIFY W/CASEWORK PRIOR TO ROUGH-IN.	6" ACT TO BTM, COORD. WITH CABINET INSTALLER
R <sub>18</sub>	QUADRAPLEX RECEPTACLE, SPECIFICATION GRADE, (2) DUPLEX, PASS	



**1. Floor or Wall Assembly** - Lightweight or normal weight (100-150 pcf or 1600-2400 kg/m<sup>3</sup>) concrete. Min thickness of concrete floor or wall is 2-1/2 in. (64 mm) for 1 hr F Rating and 4-1/2 in. (114 mm) for 2 or 3 hr F Rating. Wall may also be constructed of any UL Classified **Concrete Block**\*. Max area of opening 36 sq ft (3.4 m<sup>2</sup>) with one dimension of opening being 36 in. (914 mm) or less. See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

**2. Pipe or Conduit** - Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe, nom 6 in. (152 mm) diam (or smaller) steel conduit, nom 4 in. (102 mm) diam (or smaller) steel EMT or nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing. Min clearance between pipes is 1 in. (25 mm) Min clearance between pipe and wall of through opening 1/4 in. (6 mm). When single nom 4 in. (102 mm) diam (or smaller) pipe, conduit or EMT is installed in nom 7 1/8 in. (181 mm) diam (or smaller) circular through opening, min clearance between pipe, conduit or EMT and wall of through opening is 0 in. (0 mm) (point contact). Pipes and conduits rigidly supported on both sides of floor or wall assembly.

**3. Fill/Void or Cavity Materials\* - Wraps Strip** - Nom 1/4 in. (6 mm) thick intumescent elastomeric material faced on one side with aluminum foil, supplied in strips. Min 2 in. (51 mm) wide strip wrapped around pipe/conduit (both sides exposed) and secured in place with steel wire or aluminum foil tape. Wrap strip to extend approx 7/8 in. (22 mm) beyond each face of the intumescent sheet (Item 4). When nom 6 in. (152 mm) diam (or smaller) pipe, conduit or EMT is installed in through opening, no wrap strip is required on pipe, conduit or EMT for 2 hr F Rating. **3M COMPANY** - FS-195\*

**4. Fill/Void or Cavity Materials\* - Intumescent Sheet** - Rigid aluminum foil-faced sheet with galv steel sheet backer. Sheet cut to fitly follow the contours of the pipe wrap strip (or individual pipe) and with a min lap of 2 in. (51 mm) on all sides of the through opening. Sheet to be installed with the galv steel sheet backer exposed aluminum foil facing against floor or wall surface. Sheet secured to top surface of floor and both sides of wall with concrete or concrete block wall using min 3/16 in. (5 mm) diam by 1-1/4 in. (32 mm) long steel masonry fasteners with min 1/4 in. (6 mm) diam steel washers. Max spacing of fasteners not to exceed 6 in. (152 mm) OC. As an alternate when (1) the max pipe or conduit size is nom 4 in. (102 mm) diam, (2) each pipe or conduit is provided with a layer of wrap strip and (3) no bundled cables or insulated pipes are installed in the through opening, the intumescent sheet may be installed on bottom surface of floor or on only one side of solid concrete wall. **3M COMPANY** - CS-195\*

**5. Fill/Void or Cavity Materials\* - Graphite Seal, Caulk, Sealant or Putty** - Generous application of caulk or putty to be applied around the base of the wrap strip (or individual pipe) at its ingress from the intumescent sheet(s) in addition to completely covering the wrap strip up to the interfacial(s) with the pipe, pipe insulation and/or cable bundle. One layer of 1/2 in. (13 mm) x 1 1/8 in. (18 mm) adhesive backed graphite intumescent seal positioned under intumescent sheet around entire perimeter of through opening or min 1/4 in. (6 mm) diam continuous bead of caulk or putty applied to edge of intumescent sheet at its interface with surface of floor or wall around entire perimeter of through opening. Prior to installation of the steel strip, slit in intumescent sheet covered with nom 1/4 in. (6 mm) diam bead of caulk (Item 5). Steel cover strip secured to galv steel backer of intumescent sheet with steel sheet-metal screws or steel rivets spaced max 2 in. (51 mm) OC on each side of slit. **3M COMPANY** - E-FS or Ultra GS series, CP-299WD-caulk, FB-3000 WT sealant, MP-Site putty. (Note: E-FS apply only when CP-299WD-caulk or FB-3000 WT sealant is used.)

**6. Steel Cover Strip** - Min 2 in. (51 mm) wide strip of min 0.015 in. (0.38 mm) thick (20 gauge) galv steel centered over entire length of slit made in intumescent sheet (Item 4) to permit installation about the spoolable bundle. Prior to installation of the steel strip, slit in intumescent sheet covered with nom 1/4 in. (6 mm) diam bead of caulk (Item 5). Steel cover strip secured to galv steel backer of intumescent sheet with steel sheet-metal screws or steel rivets spaced max 2 in. (51 mm) OC on each side of slit.

**7. Support Channel** (Not Shown) - When area of through opening exceeds 1440 sq in. (9290 cm<sup>2</sup>), an intermediate support channel shall be installed flush with top surface of floor or both surfaces of wall. Support channels to be min 1-5/8 in. by 1-5/8 in. (41 mm by 41 mm) and formed of min 0.030 in. (0.76 mm) thick (No. 12 gauge) painted or galv steel. Ends of steel channel beaded or welded to steel angles anchored to inside walls of through opening. When steel support channels are centered beneath beaded seams of intumescent sheets, no steel cover strip (Item 6) is required over beaded seams. Intumescent sheet secured to steel support channels with steel sheet metal screws in conjunction with min 1-1/4 in. (32 mm) diam steel fender washers. When support channel is used beneath beaded seams of intumescent sheets, fasteners spaced max 3 in. (76 mm) OC on each side of beaded seam. When support channel is located away from intumescent sheet seam, fasteners spaced max 6 in. (152 mm) OC. Prior to installation of the intumescent sheet(s), nom 1/4 in. (6 mm) diam continuous bead of caulk or sealant (Item 5) shall be applied as gasket over the steel support channel.

\*Bearing the UL Classification Mark

**FIRE PENETRATION DETAIL**

\*NOTE  
FILE NAME = CAJ1008  
THIS MATERIAL WAS EXTRACTED BY 3M FIRE PROTECTION PRODUCTS FROM THE 2004 EDITION OF THE UL FIRE RESISTANCE DIRECTORY

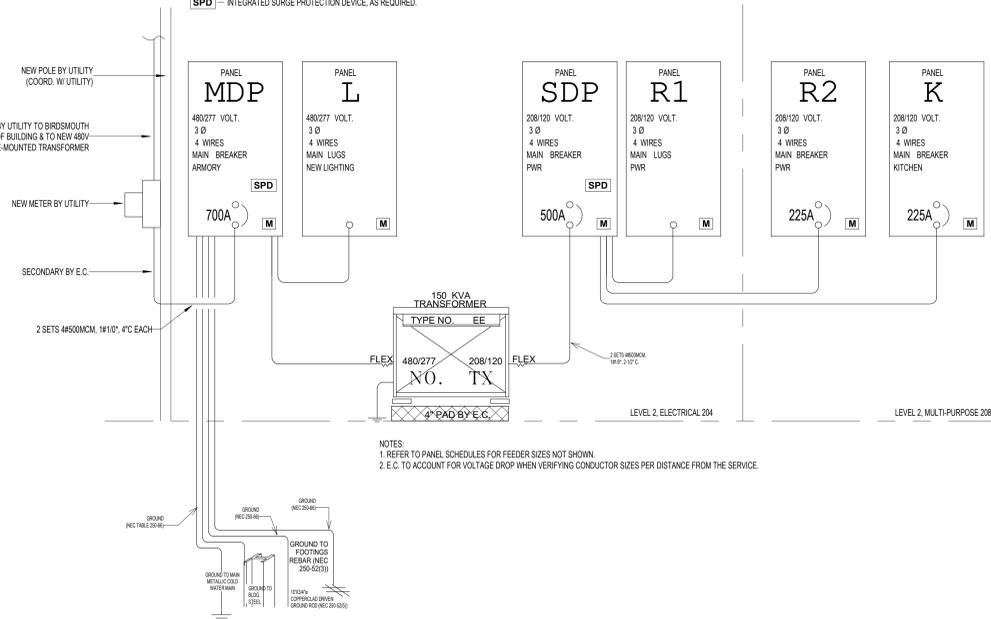
**FIRE PENETRATION DETAIL**

\*NOTE  
FILE NAME = 1R1003  
THIS MATERIAL WAS EXTRACTED BY 3M FIRE PROTECTION PRODUCTS FROM THE 2008 EDITION OF THE UL FIRE RESISTANCE DIRECTORY

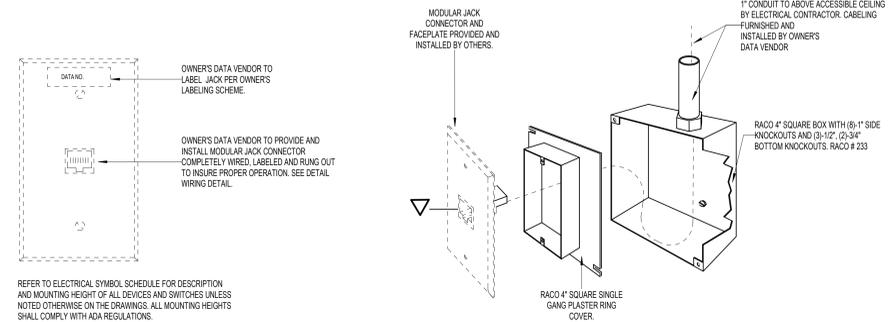
**ELECTRICAL NOTES**

1. THE SYMBOL \*\*\* DENOTES GROUNDING CONDUCTOR, TYPICAL UNLESS OTHERWISE NOTED.
2. ALL PANEL DIRECTORIES SHALL BE TYPED AS TO THE LOAD SERVED AND USING THE OWNER'S NUMBERING SYSTEM.
3. ALL WIRING TROUGHS SHALL BE A MINIMUM OF 8" DEEP.
4. ALL ELECTRICAL PANELS TO BE LABELED WITH PHENOLIC LABELS.
5. REFER TO PANEL SCHEDULES FOR FEEDER SIZES NOT SHOWN.
6. E.C. TO ACCOUNT FOR VOLTAGE DROP WHEN VERIFYING CONDUCTOR SIZES VS. DISTANCE FROM SERVICE.

- M** - CHECK METERING LOCATION TO BE PROVIDED AT ALL PANELBOARDS. PROVIDE SUFFICIENT SPACE TO ATTACH CLAMP-ON OR SPLIT-CORE CURRENT TRANSFORMER TYP.
- BMS** - PANEL POWER METER TO INTERGRATE WITH HVAC BUILDING MANAGEMENT SYSTEM COORDINATE WITH MECHANICAL CONTRACTOR.
- SPD** - INTEGRATED SURGE PROTECTION DEVICE, AS REQUIRED.

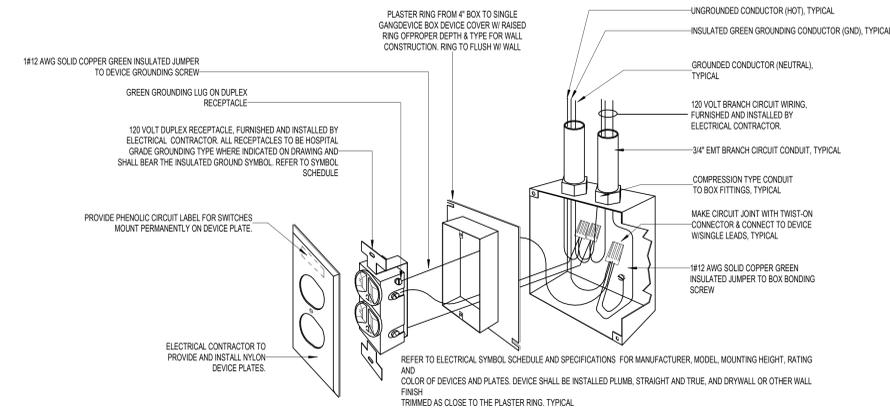


**ELECTRICAL RISER DIAGRAM**  
NOT TO SCALE

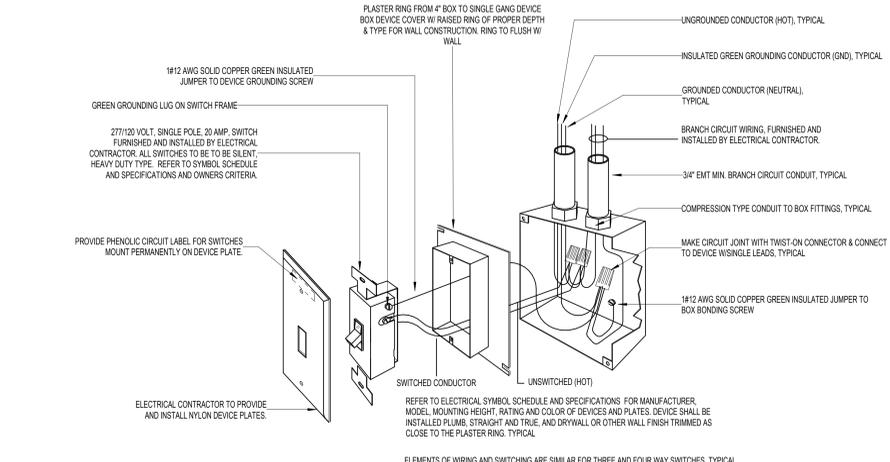


**Detail - Data Device Plate Detail**  
NOT TO SCALE

**Detail - Data Outlet Detail**  
NOT TO SCALE



**TYPICAL 120V RECEPTACLE & GROUNDING DETAIL**  
NOT TO SCALE



**TYPICAL SWITCH & WIRING ELEMENTS**  
NOT TO SCALE

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**CRAIG GAULDEN DAVIS**  
• Architecture  
19 Washington Park  
Greenville, SC 29601  
Phone 864.242.0761  
Fax 864.501.9945  
E-mail cgd@gcdarch.com

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CONSULTANT

**RNM ENGINEERS**  
Reece, Noland & McElrath, Inc.  
300 MAIN STREET CANTON, SOUTH CAROLINA 29716  
PHONE: 828.493.4877 FAX: 828.493.4877  
MAIL@RNMENGINEERS.COM WWW.RNMENGINEERS.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: 23029  
DRAWN BY: JWC  
CHECKED BY: JSD

**ELECTRICAL DETAILS**

**E002**

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%			TOTAL LOAD: 323.3 KVA TOTAL AMPS: 388.9 A				
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	64.1 kVA						2	
3	SURGE SUPPRESSION DEVICE	--		3-60 A		0.0 kVA	55.9 kVA		3-225 A	2-1/2"	3#410, 1#410, 1#4	TRANSFORMER TX	4
5					3.9 kVA	6.4 kVA						6	
7						2.0 kVA	6.4 kVA					8	
9	PANEL L1	3#4, 1#3, 1#8	1-1/2"	3-100 A			1.3 kVA	6.4 kVA	3-30 A		3#110, 1#110, 1#110	ROOFTOP UNIT #1, RTU-1	10
11					9.1 kVA	10.8 kVA						12	
13												14	
15	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, AHU-1	16
17					9.1 kVA	10.8 kVA						18	
19								9.1 kVA	10.8 kVA			20	
21	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, AHU-2	22
23					1.9 kVA	--	--	--				24	
25						1.9 kVA	--	--	3-			26	
27	CONDENSING UNIT #3, CU-3	3#12, 1#12, 1#14	3-1/5 A									28	
29												30	
31												32	
33	SPACE ONLY	--		3-								34	
35												36	
37												38	
39	SPACE ONLY	--		3-								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: \* = GFCI 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%			TOTAL LOAD: 42.1 KVA TOTAL AMPS: 116.7 A					
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#410, 1#410, 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#410, 1#410, 1#4	2-1/2"	3-225 A		13.1 kVA	12.4 kVA		3-225 A	2-1/2"	3#410, 1#410, 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	2-20 A	2#12, 1#12, 1#12	UNIT HEATER #2, UH-2	14	
15						1.5 kVA	1.5 kVA					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	2-20 A	2#12, 1#12, 1#12	UNIT HEATER #4, UH-4	18	
19								1.5 kVA	1.5 kVA			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	2-20 A	2#12, 1#12, 1#12	UNIT HEATER #6, UH-6	22	
23								1.5 kVA	1.5 kVA			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	2-25 A	2#10, 1#10, 1#10	UNIT HEATER #9, UH-9	26	
27								1.5 kVA	1.9 kVA			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	2-25 A	2#10, 1#10, 1#10	UNIT HEATER #10, UH-10	30	
31					1.3 kVA	1.9 kVA						32		
33	AIR HANDLER UNIT #3, AHU-3	2#12, 1#12, 1#14	2-15 A		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	34	
35					4.8 kVA	2.6 kVA				2-30 A	1"	2#8, 1#8, 1#8	OUTDOOR UNIT #2, OU-2	36
37	AIR HANDLER UNIT #3 ELECTRIC HEAT	3#8, 1#8, 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 #3, OU-3	38	
39						1.5 kVA						40		
41	SPACE ONLY	--		1-		1.5 kVA				2-30 A	2#10, 1#10, 1#10	SPACE ONLY	42	
43												44		
45												46		
47	SPACE ONLY	--		3-								48		
49												50		
51	SPACE ONLY	--		3-								52		
53												54		
55												56		
57	SPACE ONLY	--		3-								58		
59												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: \* = 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="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 Totals					
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LTG	1.20 kVA	100.00%	1.20 kVA	Total Conn. Load:	172.3 kVA
Power	104.96 kVA	100.00%	104.96 kVA	Total Est. Demand:	144 kVA
RCPT	66.02 kVA	57.57%	38.01 kVA	Total Conn. Current:	478.3 A
Lighting	0.14 kVA	100.00%	0.14 kVA	Total Est. Demand Current:	400.5 A

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%			TOTAL LOAD: 32.9 KVA TOTAL... 91.2 A				
PROVIDE DOOR-IN DOOR HINGED COVER													
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							2	
3	RCPT: ICEMAKER	1#12, 1#12, 1#14	1-15 A			1.2 kVA	4.0 kVA		3-50 A	1"	3#8, 1#8, 1#10	DISHWASHER BOOSTER HEATER	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		1-20 A		1#12, 1#12, 1#12	AIR CURTAIN	10
11	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
13	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	COMBI-OVEN	14
15												16	
17	SPACE ONLY	--		1-								18	
19	SPACE ONLY	--		1-		1.5 kVA				1-20 A	1#12, 1#12, 1#12	RCPT: PROOFER	20
21	SPACE ONLY	--		1-								22	
23	SPACE ONLY	--		1-								24	
25	SPACE ONLY	--		1-								26	
27	SPACE ONLY	--		1-								28	
29	SPACE ONLY	--		1-								30	
Total Load:					12.4 kVA	11.2 kVA	9.3 kVA						
Total Amps:					105.7 A	95.7 A	77.3 A						

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

SQUARE "D" No. NOOD 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 "NOOD" SERIES: 1POLE="QOB", 2.3 POLE BELOW 100A=QOB (10K AIC), 2.3 POLE ABOVE 100A="QOB-VH" (22K AIC)

NOTES: UNO ALL CONDUIT TO BE 3/4" EMT; UNO BELOW ALL SPARES TO BE 1P-20 A

NOTES: MINIMUM FEEDER SIZE TO BE #12. DISREGARD SCHEDULE "WIRE SIZE" FOR #14 OR SMALLER & UTILIZE #12.

Panel: L													
Location: ELEC. 204						Volts: 480/277 Wye			A.I.C. Rating: 35KA				
Supply From: MDP						Phases: 3			Mains Type: MCB				
Mounting: Surface						Wires: 4			Mains Rating: 100 A				
Enclosure: NEMA 1						Neutral Rating: 100.00%			TOTAL LOAD: 6.9 KVA TOTAL AMPS: 8.3 A				
PROVIDE DOOR-IN DOOR HINGED COVER													
CKT	DESCRIPTION	WIRE SIZE	COND	BKR	A	B	C	BKR	COND	WIRE SIZE	DESCRIPTION	CKT	
1	LTG: ENTRY LOBBY, ODO SCONCES	1#12, 1#12, 1#12	1-20 A	0.6 kVA	2.4 kVA					1-20 A	1#12, 1#12, 1#12	LTG: GYMNASIUM 105	2
3	LTG: MULTI-PURPOSE, KITCHEN	1#12, 1#12, 1#12	1-20 A			1.3 kVA	0.6 kVA		1-20 A	1#12, 1#12, 1#12	LTG: GYMNASIUM 105 NIL	4	
5	LTG: MECH. STORAGE RMS, TLTS	1#12, 1#12, 1#12	1-20 A					0.8 kVA	0.6 kVA	1-20 A	1#12, 1#12, 1#12	LTG: NIL	6
7	LTG: TEAM ROOMS	1#12, 1#12, 1#12	1-20 A	0.5 kVA	0.5 kVA				1-20 A	1#12, 1#12, 1#12	LTG: ODO LTG ON PHOTOCELLS	8	
9	SPACE ONLY	--		1-				0.2 kVA		1-20 A	1#12, 1#12, 1#12	LTG: LEVEL 2 OPEN WALKWAY	10
11	SPACE ONLY	--		1-								12	
13	SPACE ONLY	--		1-								14	
15	SPACE ONLY	--		1-								16	
17	SPACE ONLY	--		1-								18	
Total Load:					3.9 kVA	2.0 kVA	1.3 kVA						
Total Amps:					14.6 A	7.6 A	4.5 A						

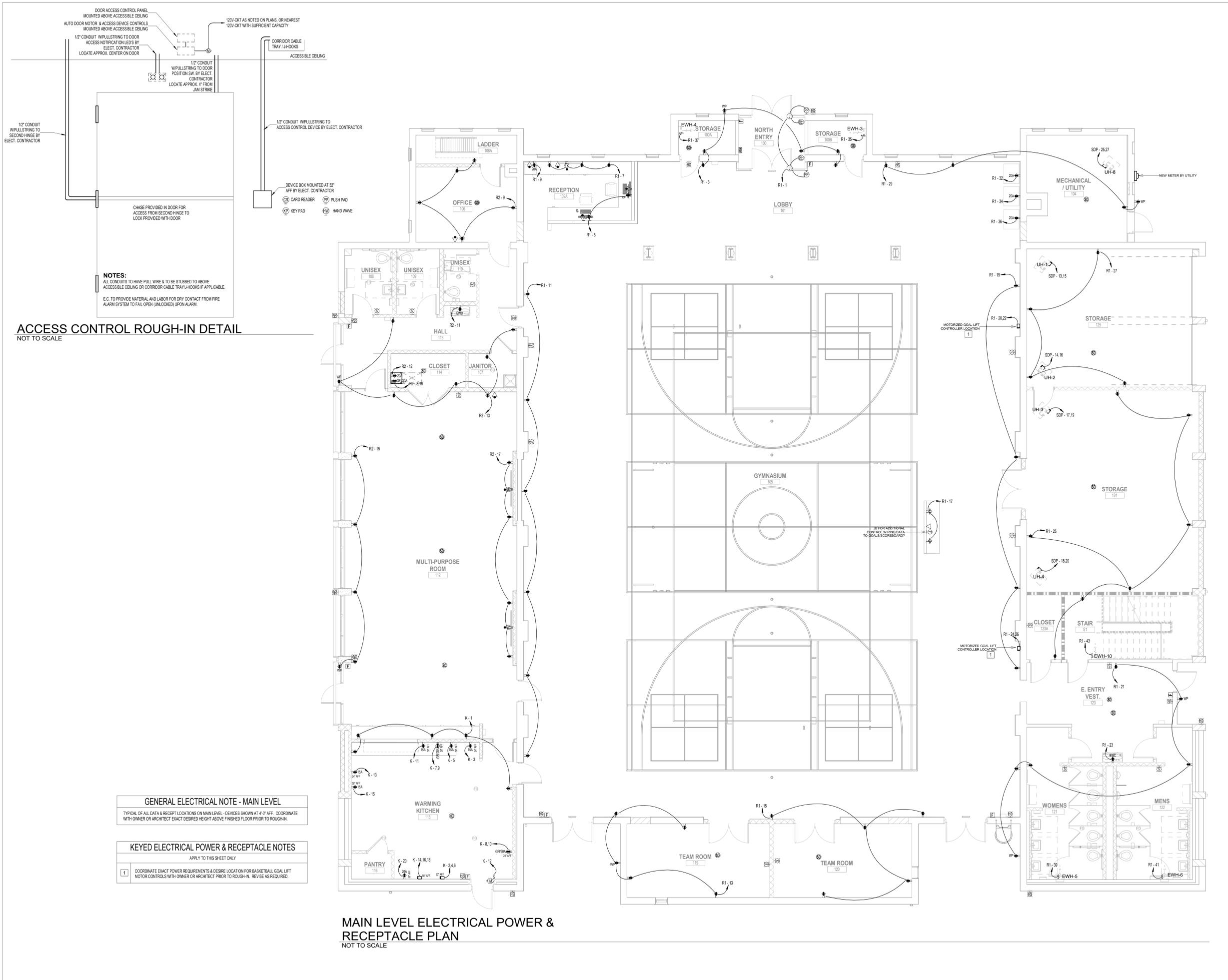
LEGEND: \* = GFCI CIRCUIT BREAKER; \*\* = LOCKING CIRCUIT BREAKER

SQUARE "D" No. NF SERIES, 480/277 VOLTS, 3ø, 4 WIRE, SOLID NEUTRAL, TINNED COPPER BUS BARS, GROUND BAR, 100 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 "NF" SERIES: 1 POLE="EGB", 2.3 POLE="EGB" (35K AIC)

NOTES: UNO ALL CONDUIT TO BE 3/4" EMT; UNO BELOW ALL SPARES TO BE 1P-20 A

Panel: R1											
Location: ELEC. 204						Volts: 120/208 Wye			A.I.C. Rating: 10KA		
Supply From: SDP						Phases: 3			M		



**GENERAL ELECTRICAL NOTE - MAIN LEVEL**

TYPICAL OF ALL DATA & RECEPT LOCATIONS ON MAIN LEVEL. DEVICES SHOWN AT 4'-0" AFF. COORDINATE WITH OWNER OR ARCHITECT EXACT DESIRED HEIGHT ABOVE FINISHED FLOOR PRIOR TO ROUGH-IN.

**KEYED ELECTRICAL POWER & RECEPTACLE NOTES**

APPLY TO THIS SHEET ONLY

1 COORDINATE EXACT POWER REQUIREMENTS & DESIRE LOCATION FOR BASKETBALL GOAL LIFT MOTOR CONTROLS WITH OWNER OR ARCHITECT PRIOR TO ROUGH-IN. REVISE AS REQUIRED.

**MAIN LEVEL ELECTRICAL POWER & RECEPTACLE PLAN**  
NOT TO SCALE

**CRAIG GAULDEN DAVIS**  
Architecture  
19 Washington Park  
Greenville, SC 29601  
Phone 864.242.0761  
Fax 864.501.9945  
Email cgd@gdarch.com

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CONSULTANT  
**RNM ENGINEERS**  
Reece, Noland & McElrath, Inc.  
300 MAIN STREET CANTON, SOUTH CAROLINA 29716  
PHONE: 828.495.4677 FAX: 828.495.4677  
MAIL@RNMEENGINEERS.COM © 2023 WWW.RNMEENGINEERS.COM

**TOWN OF CANTON**

**ARMORY COMMUNITY CENTER RENOVATION**

71 PENLAND ST. CANTON, NC 28716

DATE	MARK	DESCRIPTION

ISSUE: CONSTRUCTION DOCUMENTS

DATE:	11/12/2025
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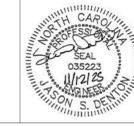
**MAIN LEVEL ELECTRICAL POWER & RECEPTACLE PLAN**

**E101**

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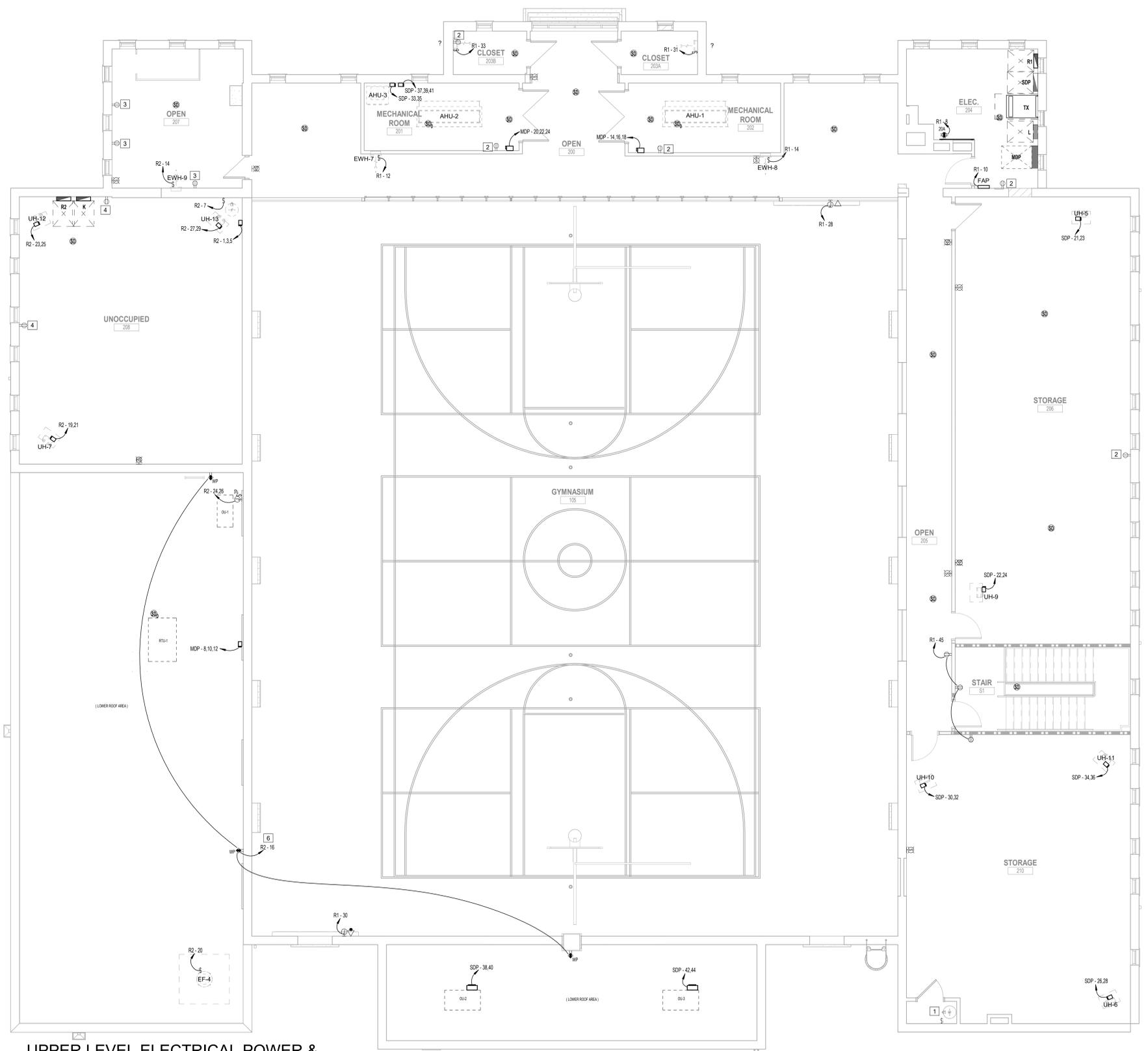
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**UPPER LEVEL ELECTRICAL POWER & RECEPTACLE PLAN**

**E102**



**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.

**UPPER LEVEL ELECTRICAL POWER & RECEPTACLE PLAN**  
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**CRAIG GAULDEN DAVIS**

• Architecture

19 Washington Park  
Greenville, SC 29601  
Phone 864.242.0761  
Fax 864.501.9945  
Email cgd@craigandavis.com

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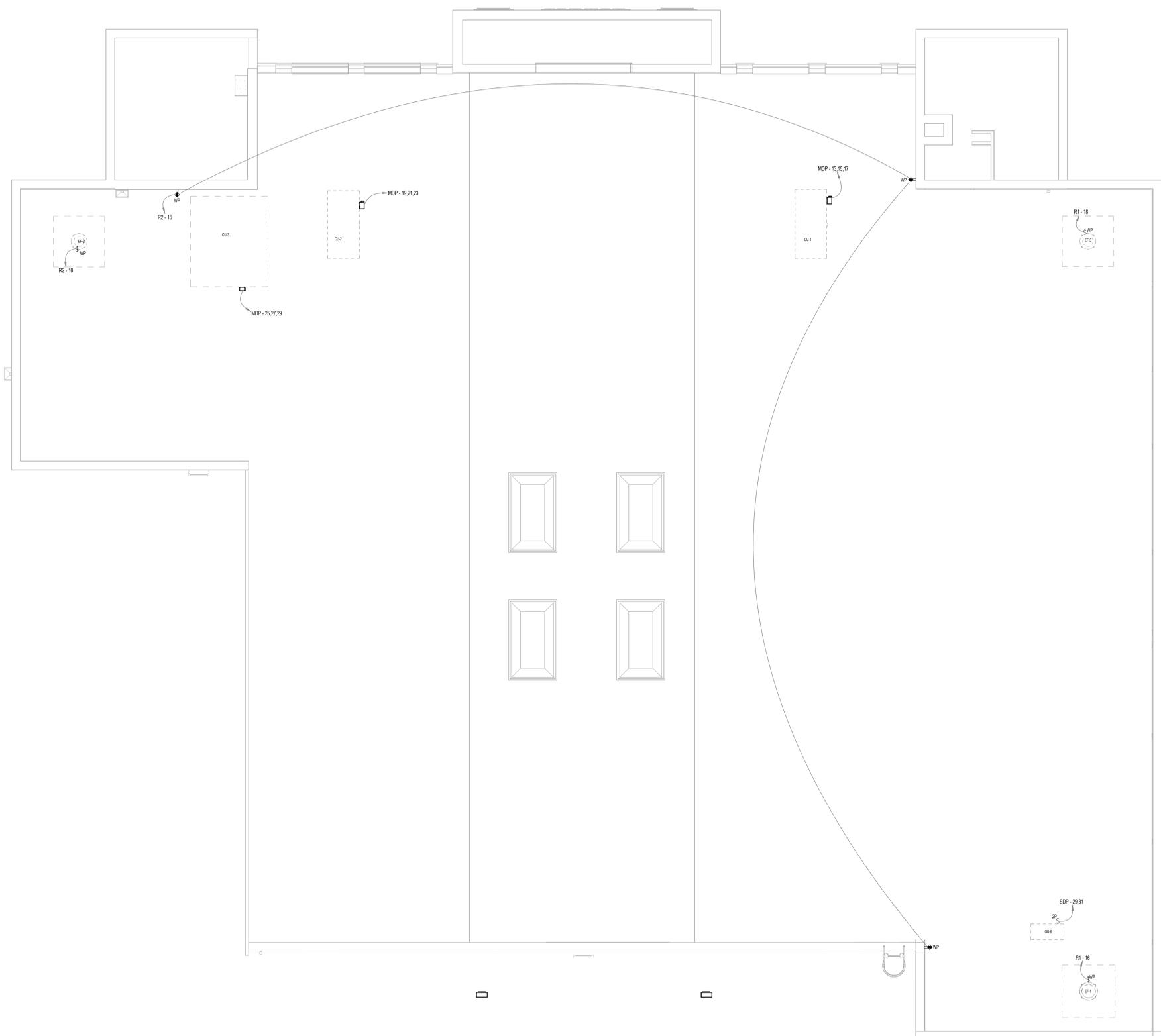
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ROOF LEVEL ELECTRICAL PLAN

**E103**



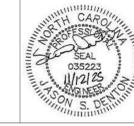
**ROOF LEVEL ELECTRICAL PLAN**  
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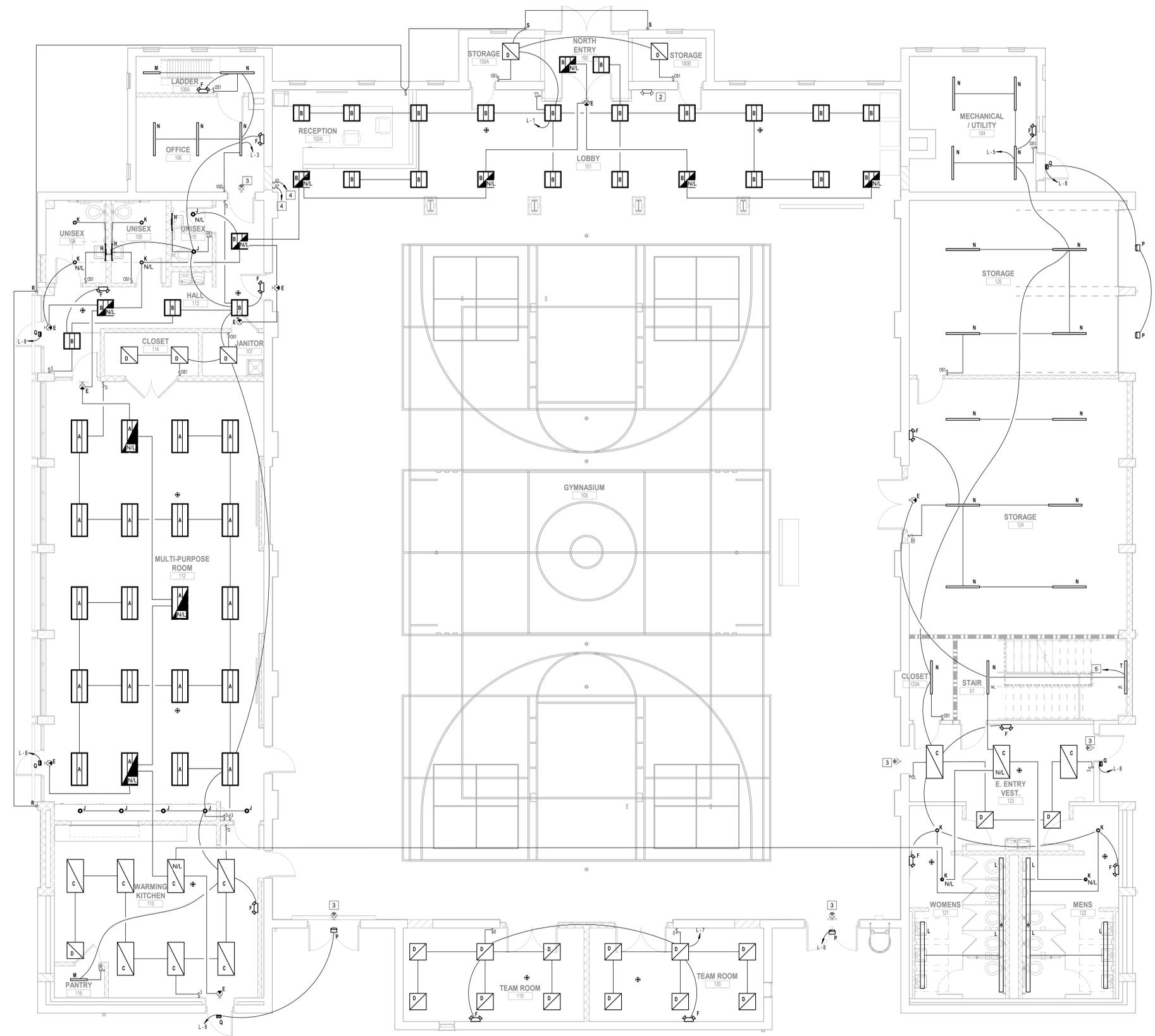
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MAIN LEVEL ELECTRICAL LIGHTING PLAN

**E201**



**KEYED ELECTRICAL LIGHTING NOTES**  
APPLY TO THIS SHEET ONLY

- CONNECT NEW LIGHT FIXTURES TO EXISTING SWITCHES WITH 3/12" IN 3/4" CONDUIT. IF SWITCHES IS INCOMPATIBLE WITH 277V, REPLACE AS REQUIRED.
- CONNECT EXISTING DUAL HEAD EMERGENCY EGRESS FIXTURE TO NEW LIGHTING CIRCUIT SERVING THE SAME AREA WITH 3/12" IN 3/4" CONDUIT. VERIFY EXISTING FIXTURE IS COMPATIBLE WITH 277V, REPLACE IF REQUIRED.
- CONNECT EXISTING EXIT LIGHT FIXTURE TO NEW NL LIGHTING CIRCUIT SERVING THE SAME AREA WITH 3/12" IN 3/4" CONDUIT. VERIFY EXISTING FIXTURE IS COMPATIBLE WITH 277V, REPLACE IF REQUIRED.
- SWITCHES TO BE CONNECTED TO GYMNASIUM OVERHEAD LIGHTING. SEE UPPER LEVEL ELECTRICAL LIGHTING PLAN, SHEET E202.

**MAIN LEVEL ELECTRICAL LIGHTING PLAN**  
NOT TO SCALE

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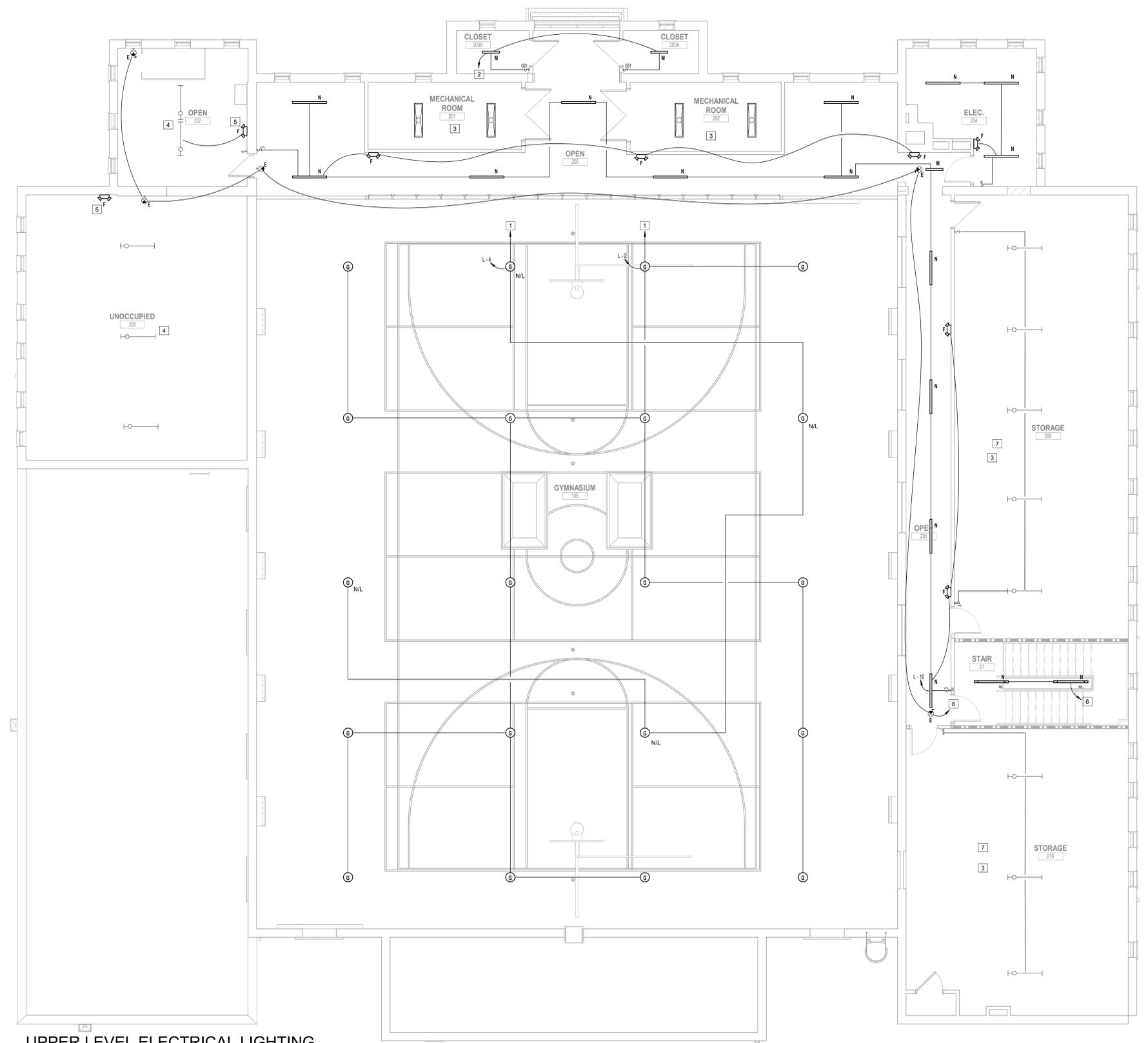
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UPPER LEVEL ELECTRICAL LIGHTING PLAN

**E202**



KEYED ELECTRICAL LIGHTING NOTES	
APPLY TO THIS SHEET ONLY	
1	GYMNASIUM HIGH BAY FIXTURES TO BE CONNECTED TO NEW SWITCHES 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" 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 SWITCH(ES) 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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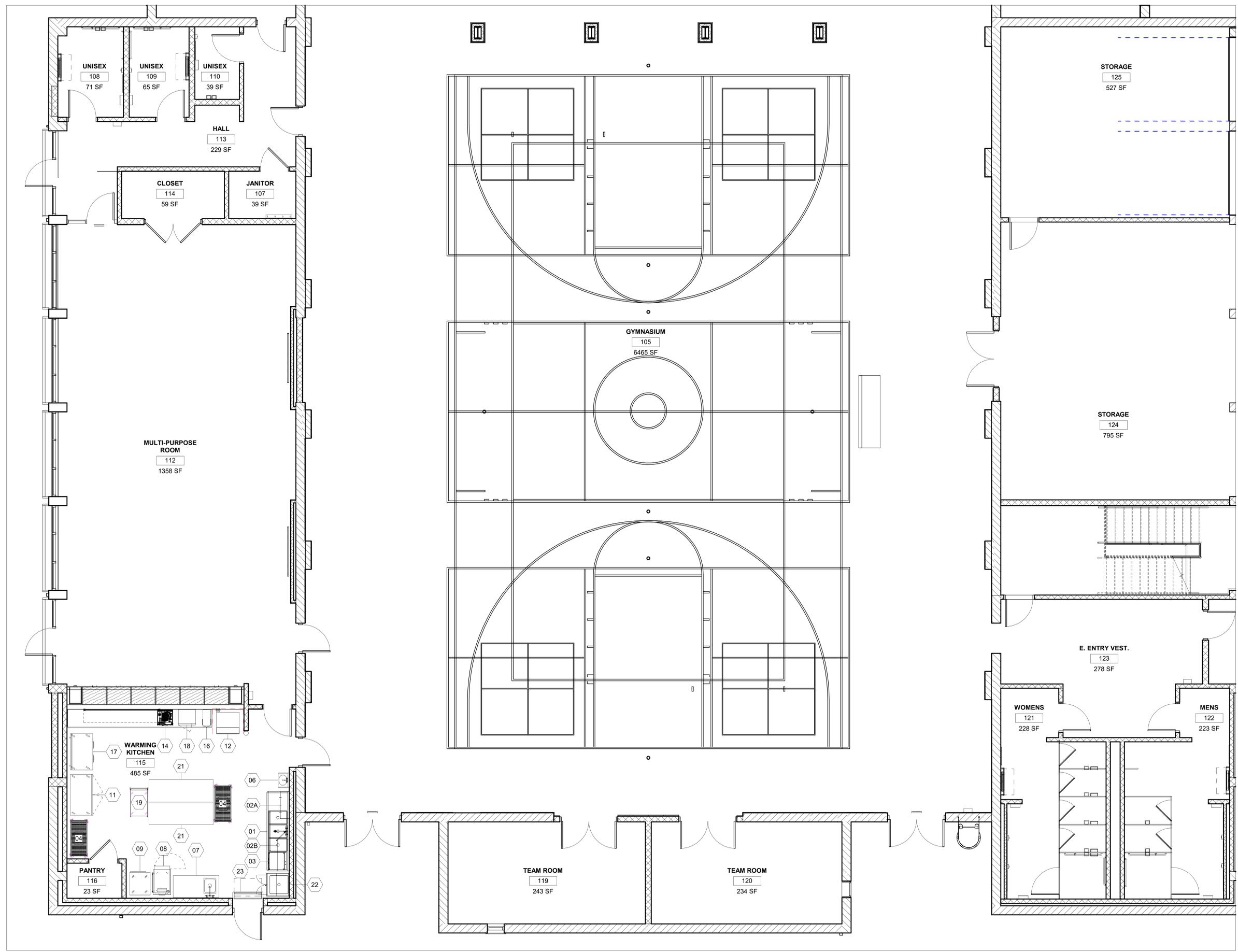
**ARMORY COMMUNITY CENTER RENOVATION**

71 PENLAND ST. CANTON, NC 28716

ISSUE: CONSTRUCTION DOCUMENTS  
 DATE: 11/12/2025  
 PROJECT NO: 23029  
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FOODSERVICE EQUIPMENT PLAN

**FS101**



**1 FOOD SERVICE EQUIPMENT PLAN**  
 FS101 1/4" = 1'-0"

Autodesk Docs://Canton Armory/Canton Armory Food Service\_R24.rvt  
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**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.	I/W		DRAIN TYPE	DW
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

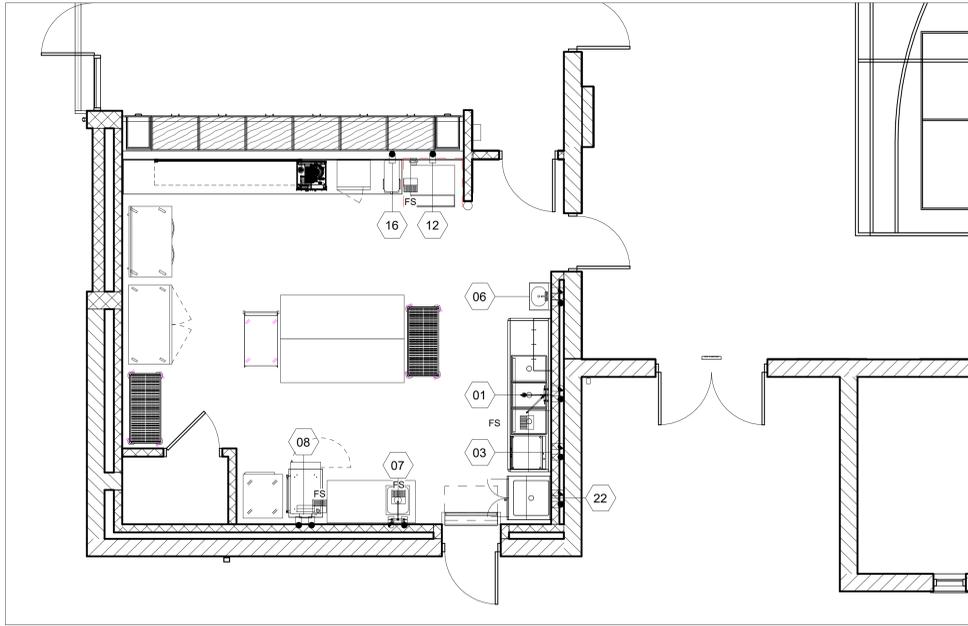
ELECTRICAL LOADS ARE BASED ON MANUFACTURER'S INFORMATION. MINIMUM CIRCUIT AMPACITY AND OVERCURRENT PROTECTION TO BE DETERMINED BY CODE REQUIREMENTS AND/OR MANUFACTURER'S DIRECTIONS.

**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



**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

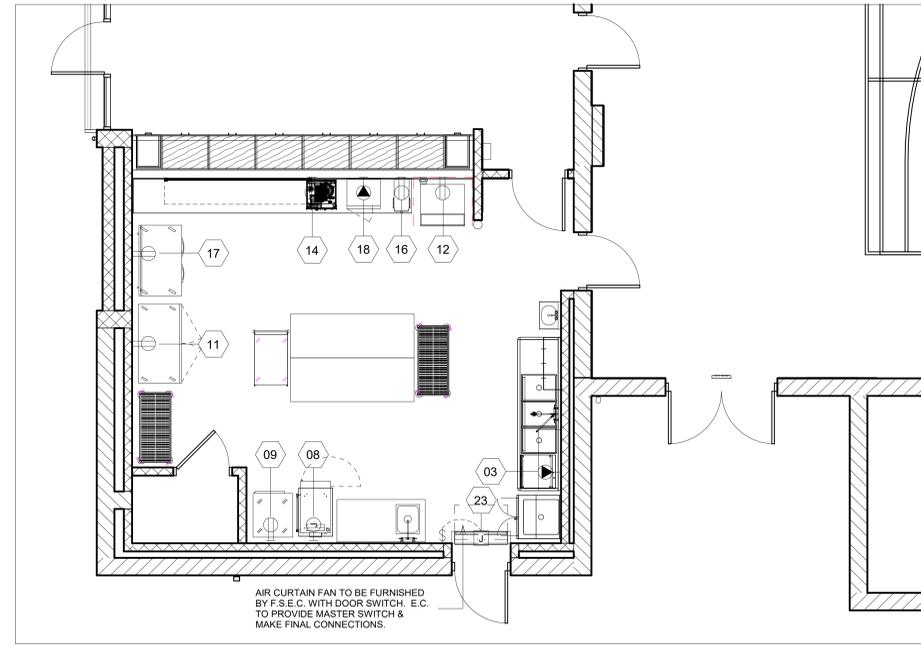
PLUMBING ROUGHING IN NOTES

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

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.

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.