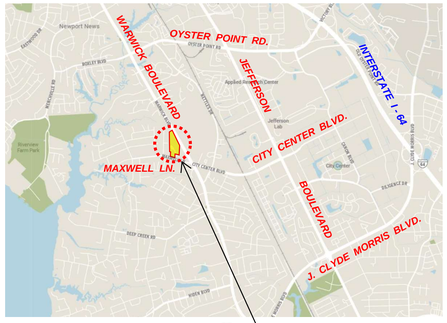
SECURITY VESTIBULE & OFFICE ADDITION & ALTERATIONS FOR YATES ELEMENTARY SCHOOL

I.F.B. NO. 15-0-2025/SNB

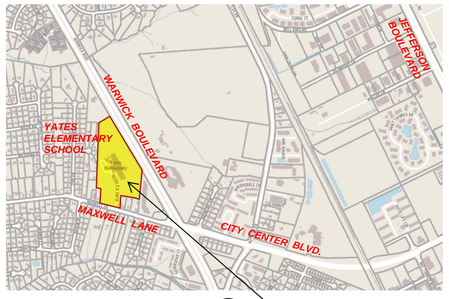
73 MAXWELL LANE NEWPORT NEWS, VA 23606

FEBRUARY 4, 2025

HUDSON+ASSOCIATES ARCHITECTS
120 WEST QUEENS WAY SUITE 201 HAMPTON, VA.
(757) 722-1964 23669



LOCATION MAP — PROJECT LOCATION



VICINITY MAP — PROJECT LOCATION

GENERAL NOTES

1. PROJECT LOCATION AND ADDRESS:
YATES ELEMENTARY SCHOOL
73 MAXWELL LANE
NEWPORT NEWS, VA 23606

OWNER:
NEWPORT NEWS PUBLIC SCHOOLS
12465 WARWICK BLVD.
NEWPORT NEWS, VA 23606

2. LIFE SAFETY / BUILDING CODE COMPLIANCE: REFER TO "LS" DRAWINGS HEREIN FOR LIFE SAFETY PLANS AND BUILDING CODE COMPLIANCE NOTES.

3. APPLICABLE BUILDING CODE: ALL WORK SHALL CONFORM TO THE 2018 EDITION OF THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE, NEW REFERRED TO AS THE VIRGINIA CONSTRUCTION CODE (VCC). THE CONTRACTOR SHALL COMPLY WITH ALL ORDINANCES, REGULATIONS AND REQUIREMENTS OF THE CITY OF NEWPORT NEWS AND THE COMMONWEALTH OF VIRGINIA.

4. PROJECT SCOPE OF WORK:
THIS PROJECT CONSISTS OF CONSTRUCTING A ONE-STORY ADDITION TOTALING APPROXIMATELY 1,754 S.F., AT THE MAIN ENTRANCE OF THE EXISTING YATES ELEMENTARY SCHOOL. THE ADDITION WILL INCLUDE A NEW SECURITY VESTIBULE & ADMINISTRATIVE OFFICES. ADDITIONALLY, THIS PROJECT INCLUDES INTERIOR ALTERATIONS IN APPROXIMATELY 1,428 S.F. OF CURRENT ADMINISTRATIVE OFFICE SPACE.
WORK INCLUDES CLEARING AND DEMOLITION AT THE EXISTING ENTRY CANOPY AND ADJACENT YARD, PREPARATION OF BUILDING PAD, GRADING AND DRAINAGE, AND RESTORATION OF THE SITE. NEW CONSTRUCTION INCLUDES A STEEL-FRAMED, BRICK AND EIFS-CLAD STRUCTURE WITH WINDOWS AND DOORS, HVAC AND ELECTRICAL WORK.
INTERIOR WORK ALTERS EXISTING NON-LOAD-BEARING MASONRY WALLS AND PARTITIONS, AND PROVIDES LINTELS FOR NEW OPENINGS, FIRE-RATED HM STOREFRONTS AND GLASS. WORK INCLUDES INTERIOR DEMOLITION, PROVISION OF NEW INTERIOR WOOD CASEWORK, DOORS AND FRAMES, FINISHES, CEILINGS, PLUMBING, HVAC, LIGHTING AND ELECTRICAL WORK. THE COMPLETION SCHEDULE FOR THIS PROJECT IS VERY DEMANDING, AND IT IS ANTICIPATED THAT EXTENDED WORKDAY HOURS AND WORK ON WEEKENDS WILL BE NECESSARY TO COMPLETE THIS PROJECT BY THE SCHEDULED COMPLETION DATE.

5. SAFETY: THE CONTRACTOR SHALL BEAR ALL RESPONSIBILITY FOR SAFE CONDUCT OF THE WORK, INCLUDING, BUT NOT LIMITED TO PERSONNEL SAFETY, LIFTS AND CRANES, ELEVATED WORK MEASURES, SITE LIGHTING, AND IDENTIFICATION OF WORK AREAS. WORK SHALL PROGRESS IN A MANNER SO AS NOT TO OVERLOAD THE BUILDING STRUCTURE OR INDUCE LOADS ON PARTIALLY COMPLETED WORK WITHOUT ADEQUATE TEMPORARY BRACES, SUPPORTS AND OTHER MEASURES TO PROTECT WORK IN PLACE. PROVIDE FIRE EXTINGUISHERS THROUGHOUT THE WORK AREA, AND IDENTIFY A FIRST AID STATION ON THE SITE.

6. SITE SECURITY: THE CONTRACTOR SHALL BEAR ALL RESPONSIBILITY FOR SECURING THE SITE DURING CONSTRUCTION. PROVIDE TEMPORARY SIGNAGE AS REQUIRED FOR EMERGENCY ACCESS. MAINTAIN ALL TEMPORARY FACILITIES SUCH AS FENCES, CONSTRUCTION TRAILER(S) AND STORAGE CONTAINERS IN NEAT CONDITION. PROVIDE TEMPORARY RESTROOM FACILITIES ON THE SITE WITHIN SECURED AREA FOR ALL CONSTRUCTION PERSONNEL USE DURING THE WORK.

7. OCCUPIED FACILITY: THE BUILDING SITE IS LOCATED IN A BUSY COMMUNITY, AND IS ADJACENT TO PUBLIC WAYS THAT MUST REMAIN OPEN AND IN USE. THE BUILDING SHALL REMAIN OCCUPIED AND IN USE FOR A PORTION OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFE AND CLEAR IDENTIFICATION OF THE CONSTRUCTION SITE, AND SHALL PROVIDE TEMPORARY BARRIERS, SIGNAGE, PEDESTRIAN WALKWAYS AND TRAFFIC CONTROL DEVICES AS NEEDED TO ASSURE SAFETY OF STUDENTS, STAFF AND THE PUBLIC.

8. FIRE DEPARTMENT ACCESS: THE CONTRACTOR SHALL IDENTIFY EXISTING FIRE HYDRANTS ON THE SITE AND SHALL AVOID BLOCKING THESE DURING CONSTRUCTION. CONTRACTOR SHALL MAINTAIN FIRE LANE ACCESS INTO THE SITE AT ALL TIMES.

9. SEQUENCE OF CONSTRUCTION: THIS PROJECT DOES NOT REQUIRE PHASING, PER SE; HOWEVER SPECIFIC CONDITIONS MUST BE MAINTAINED, AND CERTAIN ASPECTS OF WORK MUST TAKE PLACE AT SPECIFIC TIMES.

GENERAL WORK NOTES

1. EXISTING AND NEW MATERIALS: THE DRAWINGS, OTHER THAN THE DEMOLITION PLANS, SHOW THE DESIRED FINISH CONSTRUCTION. NEW WORK ITEMS ARE CALLED OUT ON THE DRAWINGS WITHOUT REFERENCE TO BEING "NEW." EXISTING ITEMS THAT ARE INTEGRAL TO THE CONSTRUCTION DETAIL AND THEREBY POSSIBLY CONFUSED WITH THE NEW MATERIALS ARE IDENTIFIED BY THE SUFFIX "TO REMAIN." ITEMS IN ACCORDANCE WITH THE LEGEND SYMBOLS, DRAWN WITH HEAVIER LINEWEIGHTS OR THAT ARE SHADED TYPICALLY INDICATE NEW MATERIALS UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR IS TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE EXISTING BUILDING AT ALL TIMES. AT NO TIME IS THE REMOVAL OR DEMOLITION OF STRUCTURAL ELEMENTS TO OCCUR WITHOUT THE APPROVAL OF THE OWNER'S REPRESENTATIVE.
3. THE CONTRACTOR SHALL EXAMINE THE EXISTING STRUCTURE PRIOR TO REMOVING ANY EXISTING WALLS OR PARTITIONS TO ENSURE THAT EXISTING STRUCTURE AND WALL ELEMENTS ABOVE AND ADJACENT ARE PROPERLY SUPPORTED AND/OR TEMPORARILY SHORED AND BRACED.
4. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING THE BUILDING IN A WEATHERTIGHT CONDITION THROUGHOUT THE CONSTRUCTION PERIOD AND REPAIR ALL DAMAGE CAUSED BY CONSTRUCTION OR WATER INTRUSION.
5. THE CONTRACTOR SHALL RE-SEED AND REFURBISH ANY AREAS OF THE SITE DAMAGED BY THE CONTRACTOR'S OPERATIONS. REFURBISHING SHALL INCLUDE THE FILLING OF ANY RUTS CREATED BY THE CONTRACTOR'S EQUIPMENT, AND THE REESTABLISHMENT OF TURF IN THESE AND ANY OTHER AREAS WHERE GRASS HAS BEEN DAMAGED DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL REPAIR ANY CONCRETE CURBS AND SIDEWALKS, DRIVEWAYS OR ASPHALT-PAVED SURFACES DAMAGED BY OPERATIONS.
6. DIMENSIONS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
7. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL EXAMINE THE CONTRACT DOCUMENTS THOROUGHLY BEFORE COMMENCEMENT OF WORK AND COORDINATE SCHEDULING OF THE WORK. ANY CONFLICTS OR DISCREPANCIES WILL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND ARCHITECT IN ORDER TO BE RESOLVED BEFORE PROCEEDING. FAILURE TO PERFORM THIS COORDINATION WILL NOT EXCUSE SUBSEQUENT CONFLICT OR FAILURE TO MEET CONTRACTED COMPLETION DATE(S).
8. ALL WOOD MEMBERS THAT ABUT OR COME IN CONTACT IN ANY WAY WITH MASONRY OR CONCRETE SHALL BE PRESERVATIVE-TREATED. ALL OTHER WOOD BLOCKING AT INTERIOR OF THE BUILDING SHALL BE FIRE-RETARDANT TREATED (FRT). ALL OTHER WOOD BLOCKING AT THE EXTERIOR OF THE BUILDING AND USED IN CONJUNCTION WITH ROOFING SHALL BE PRESERVATIVE-TREATED. WOOD PRESERVATIVE-TREATED LUMBER SHALL BE PROCESSED PER AWPA C2. THE PRESERVATIVE CHEMICALS SHALL NOT CONTAIN ARSENIC OR CHROMIUM. KILN-DRY THE LUMBER AFTER TREATMENT TO A MAXIMUM MOISTURE CONTENT OF 19 PERCENT. FIRE RETARDANT-TREATED MATERIALS (NON-COM) SHALL COMPLY WITH PERFORMANCE REQUIREMENTS IN AWPA C20.
9. IN GENERAL, ALL PATCHING, REPAIR AND RENOVATION WORK IS INTENDED TO MATCH, COMPLIMENT AND ALIGN WITH THE EXISTING ADJACENT CONDITIONS.
10. HANDICAPPED (HC)-ACCESSIBILITY: ALL NEW WORK AT INTERIOR OF FACILITY SHALL COMPLY WITH ICC/ANSI A117.1, STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES (2009), AND VCC 2018 CHAPTER 11 WITH RESPECT TO HANDICAPPED ACCESSIBILITY. SWITCHES AND CONTROLS RELATED TO INTERIOR LIGHTING AND HVAC OPERATION SHALL BE PLACED AT 4'-0" HEIGHT WHERE INDICATED. NO OTHER MODIFICATIONS TO THIS FACILITY THAT ARE NOT OTHERWISE IMPACTED BY WORK UNDER THIS CONTRACT ARE REQUIRED. REFER TO ADDITIONAL NOTES CONCERNING HC-ACCESSIBILITY UNDER THE LIFE SAFETY/BUILDING CODE COMPLIANCE NOTES.

INDEX OF DRAWINGS

MATERIAL LEGEND

CONCRETE
BRICK
BLOCK
METAL
PLYWOOD
CONTINUOUS FRAMING
BLOCKING/SHIM
BATT INSULATION
1/2" COVER BOARD ON POLYISOCYANURATE ROOF INSULATIION
2 6C — WOOD BLOCKING CUT TO FIT FROM DIMENSIONAL LUMBER INDICATED

REFERENCE CONVENTIONS

A1 — SECTION OR DETAIL DESIGNATION
DETAIL — TYPICAL DRAWING TITLE
SCALE: 3/4"=1'-0" — DWG SCALE
DEMO — DESCRIPTOR
INDICATES PROJ NORTH DIRECTION — NORTH ARROW
XX / XXXX — SECTION OR DETAIL DESIGNATION; SHEET ON WHICH SECTION IS DRAWN — SECTION & DETAIL REFERENCE

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73 MAXWELL LANE
NEWPORT NEWS, VIRGINIA 23606

COMMONWEALTH OF VIRGINIA
RICHARD S. CORNER
Lic. No. 007014
12-30-24
ARCHITECT

FEBRUARY 4, 2025

TITLE SHEET

JOB NUMBER 2312

G0.01

ARCHITECTURAL ABBREVIATIONS

A/C	AIR CONDITIONING
A/C UNIT	AIR CONDITIONING UNIT
A/E	ARCHITECT/ENGINEER
AB	ANCHOR BOLT
ABD	ABANDONED
ABBRV	ABBREVIATION
ABNL	ABNORMAL
ABRSV	ABRASIVE
ABRS RES	ABRASIVE RESISTANT
ABS	ABSOLUTE
ABSORB	ABSORPTION
ABV	ABOVE
ACC	ACCESSIBLE
ACI	AMERICAN CONCRETE INSTITUTE
ACID RES	ACID RESISTANT
ACOUS INSUL	ACOUSTICAL INSULATION
ACOUS PNL	ACOUSTICAL PANEL
ACP	ASPHALTIC CONCRETE PAVING
ACR	ACROSS
ACS DR	ACCESS DOOR
ACS FLR	ACCESS FLOOR
ACS PNL	ACCESS PANEL
ACST	ACOUSTIC
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT
ADD	ADDITIONAL
ADDM	ADDENDUM
ADH	ADHESIVE
ADJ	ADJACENT, ADJOINING, ADJUSTABLE
ADMIN	ADMINISTRATION
ADS	AUTOMATIC DOOR SEAL
AFC	ABOVE FINISHED COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFS	ABOVE FINISHED SLAB
AGGR	AGGREGATE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
ALLOW	ALLOWANCE
ALM	ALARM
ALT	ALTERNATE, ALTITUDE
ALT NO	ALTERNATE NUMBER
ALTRN	ALTERATION
ALUM	ALUMINUM
AMB	AMBIENT
AMT	AMOUNT
ANCH	ANCHOR
ANG BM	ANGLE BEAM
ANOD	ANODIZE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ANT	ANTENNA
APC	ACOUSTICAL PANEL CEILING
APP	APPEARANCE
APPD	APPROVED
APPROX	APPROXIMATE
APPX	APPENDIX
AR	AS REQUIRED
ARCH	ARCHITECT
ARF	ARCHITECTURAL FINISH
AB	ASBESTOS
ASKLR	AUTOMATIC SPRINKLER
ASPH	ASPHALT
ASR	AUTOMATIC SPRINKLER RISER
ASSN	ASSOCIATION
ASSY	ASSEMBLY
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ASWG	AMERICAN STEEL WIRE GAUGE
ASYM	ASYMMETRICAL
ATC	ACOUSTICAL TILE CEILING
ATCH	ATTACHMENT
ATM	AUTOMATIC TELLER MACHINE
ATTN	ATTENTION
AUTO	AUTOMATIC
AUX	AUXILIARY
AV	AUDIO VISUAL
AVE	AVENUE
AVG	AVERAGE
AW	ACTUAL WEIGHT, ARCHITECTURAL WOODWORK
AW	ARCHITECTURAL WOODWORK
AWN WDW	AWNING WINDOW
AWT	ACOUSTICAL WALL TREATMENT
B CL	BROOM CLOSET
B LABEL	CLASS B DOOR
B PL	BASE PLATE
B&B	GRADE B OR BETTER (LUMBER)
B/B	BACK TO BACK
B/M	BOARD MEASURE
BAF	BAFFLE
BAG	BAGGAGE
BAL	BALANCE
BALC	BALCONY
BATT	BATTEN
BAT	BATTERY
BAY WDW DH	BAY WINDOW DOUBLE HUNG
BC	BETWEEN CENTERS, BASE CABINET
BC	BOOKCASE, BOTTOM CHORD, BRICK COLOR
BRD	BOARD
BRD FT	BOARD FEET (FOOT)
BDRY	BOUNDARY
BEV	BEVEL
BEJ	BUILDING EXPANSION JOINT
BFF	BELOW FINISH FLOOR
BI FLD DR	BIFOLDING DOORS
BIL	BASIC INSULATION LEVEL
BITUM	BITUMINOUS
BJT	BED JOINT
BKBD	BACKBOARD
BKG	BACKING
BKGD	BACKGROUND
BL	BASE LINE, BUILDING LINE
BLD	BUILD
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BLKHD	BULKHEAD
BLKNG	BLOCKING
BLKT	BLANKET
BLST	BALLAST
BLT	BORROWED LIGHT, BUILT
BLT IN	BUILT-IN
BLVD	BOULEVARD
BLW	BELOW
BLW CLG	BELOW CEILING
BM	BEAM
BN	BULLNOSE
BNDG	BONDING
BOS	BOTTOM OF STEEL
BOTT	BOTTOM
BP	BUILDING PAPER
BR	BEDROOM
BRCG	BRACING
BRDG	BRIDGING
BRDG JST	BRIDGING JOIST
BRG	BEARING
BRG PL	BEARING PLATE
BRKR	BREAKER
BRKT	BRACKET
BRZ	BRONZE
BS	BOTH SIDES
BSMT	BASEMENT
BTR	BETTER
BTWN	BETWEEN
BU	BUILT-UP
BUR	BUILT-UP ROOFING
BW	BOTH WAYS
C	CHANNEL
C CONC	CAST CONCRETE
C LABEL	CLASS C DOOR
C TO C	CENTER TO CENTER
C&BTR	GRADE C AND BETTER
C&G	CURB AND GUTTER
C&P	CARPET AND PAD
CAB	CABINET
CAN	CANOPY
CANTIL	CANTILEVER
CAP	CAPACITY
CATW	CATWALK
CAV	CAVITY
CB	CARRIAGE BOLT, CATCH BASIN, CEMENT BASE
CBB	CEMENTITIOUS (BACKER) BOARD
CCD	CONTRACT CHANGE DIRECTIVE
CCW	COUNTERCLOCKWISE
CD	CONSTRUCTION DOCUMENTS
CD	CONTRACT DOCUMENTS
CEM	CEMENT
CEM	CEMETERY
CEM FIN	CEMENT FINISH
CEM PLAS	CEMENT PLASTER
CEM PLAS CLG	CEMENT PLASTER CEILING
CER	CERAMIC
CERT	CERTIFY
CF	CEMENT FLOOR, CONTRACTOR FURNISHED
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED
CFE	CONTRACTOR FURNISHED EQUIPMENT
CFLG	COUNTERFLASHING
CFMF	COLD-FORMED METAL FRAMING
CFS	CUBIC FEET PER SECOND
CG	CORNER GUARD
CGSFU	CERAMIC GLAZED STRUCTURAL FACING UNITS
CHEM	CHEMICAL
CHFR	CHAMFER
CHK	CHECK
CHMBR	CHAMBER
CHNL	CHANNEL
CHR PL	CHROME PLATED
CI	CAST IRON
CIP	CAST-IN-PLACE
CIR	CIRCLE
CIRC	CIRCULAR
CJ	CONSTRUCTION JOINT
CJ	CONTROL JOINT
CK TP	COOK TOP
CKT BRKR	CIRCUIT BREAKER
CL	CENTER LINE, CLASS, CLOSE
CL D	CLOTHES DRYER
CLASS	CLASSIFICATION
CLDG	CLADDING
CLG	CEILING
CLG DIFF	CEILING DIFFUSER
CLG GRL	CEILING GRILLE
CLG HT	CEILING HEIGHT
CLG REG	CEILING REGISTER
CLKJ	CALKED JOINT
CLL	COLUMN LINE
CLO	CLOSET
CLOS	CLOSURE
CLR	CLEAR, COLOR, COOLER
CLRM	CLASSROOM
CLT	CLEAT
CLWG	CLEAR WIRED GLASS
CMP	COMPOSITE METAL PANEL
CMPST	COMPOSITE
CMPTR	COMPUTER
CMU	CONCRETE MASONRY UNIT
CNCL	CONCEALED
CND	CONDUIT
CNDS	CONDENSATE
CNR	CORNER
CNTOR	CONTACTOR
CNTR	COUNTER
CNVR	CONVEYOR
CO	CASED OPENING, CUTOUT
COAX	COAXIAL CABLE
COL	COLUMN
COM	COMMON
COMB	COMBINATION, COMBINED
COMM	COMMUNICATION
COMP	COMPONENT
COMPL	COMPLETE
COMPT	COMPARTMENT
CONC	CONC, CONCENTRIC
CONC FLR	CONCRETE FLOOR
CONC OPNG	CONCRETE OPENING
COND	CONDITION
CONDN	CONDENSATION
CONF	CONFERENCE
CONN	CONNECT
CONST	CONSTRUCTION
CONSULT	CONSULTANT
CONT	CONTINUE, CONTINUOUS
CONTR	CONTRACTOR
CONV	CONVERT
COORD	COORDINATE
COP	COPING
COR	CHANGE ORDER REQUEST
CORN	CORNICE
CORR	CORRECT
CORR	CORRIDOR
CORRES	CORRESPOND
CVR	COVER
CVR BRD	COVER BOARD
COV PL	COVER PLATE
CP	CONTROL PANEL
CPRS	COMPRESSIBLE
CPT	CARPET
CR	CLOSET ROD
CRCMF	CIRCUMFERENCE
CRS	COLD ROLLED STEEL
CRT YD	COURTYARD
CS	CAST STONE
CSB	CONCRETE SPLASH BLOCK, CASING BEAD
CSG	CASING
CSK	COUNTER SUNK
CSMT	CASEMENT
CSTL	CAST STEEL
CSWK	CASEWORK
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
CTD	COATED
CTF	CERAMIC TILE FLOOR
CTG	COATING
CTR	CENTER
CTV	CABLE TELEVISION
CU	COPPER, CUBIC, CONDENSER UNIT
CUB	CUBICLECU
CUH	CABINET UNIT HEATER
CUR	CURRENT
CURT	CURTAIN
CUST	CUSTODIAN
CW	CASEMENT WINDOW
CW	CLOCKWISE
D	DEEP, DEPTH
D LABEL	CLASS D DOOR
DBL	DOUBLE
DBL ACT DR	DOUBLE ACTING DOOR
DBL GLZ	DOUBLE GLAZE
DEG	DEGREE
DEG C	DEGREES CELSIUS
DEG F	DEGREES FAHRENHEIT
DEL	DELETE
DEMO	DEMOLITION
DENS	DENSITY
DEPT	DEPARTMENT
DES	DESIGNATION
DESCR	DESCRIBE
DESCR	DESCRIPTION
DET	DETAIL
DETN	DETENTION
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG (DOOR, WINDOW)
DIA	DIAMETER
DIAG	DIAGONAL, DIAGRAM
DIFF	DIFFERENCE
DIFF	DIFFUSER
DIM	DIMENSION
DIR	DIRECTION
DISP	DISPENSER
DIST	DISTANCE
DISTR PNL	DISTRIBUTION PANEL
DIV	DIVIDESS
DIW	DEIONIZED WATER
DMPF	DAMPPROOFING
DN	DOWN
DOC	DOCUMENT
DOM	DOMESTIC
DOZ	DOZEN
DPTN	DEMOUNTABLE PARTITION
DR	DINING ROOM, DOOR, DRAIN, DRESSING ROOM
DR AREA	DRESSING AREA
DR CL	DOOR CLOSER
DR FR	DOOR FRAME
DR OPNG	DOOR OPENING
DRH	DOOR HOLDER
DRLV	DOOR LOUVER
DRST	DOOR STOP
DRSW	DOOR SWITCH
DS	DOUBLE STRENGTH (GLASS), DOWNSPOUT
DSBL	DISABLE
DSGN	DESIGN
DSPL	DISPOSAL
DT DR	DUTCH DOOR
DTCH	DETACH
DTL	DETAIL
DUPL	DUPLICATE
DVTL	DOVETAIL
DW	DISHWASHER
DWG	DRAWING
DWR	DRAWER
DWTR	DUMBWAITER
E	EAST
E LABEL	CLASS E DOOR
EA	EACH
EDP	ELECTRONIC DATA PROCESSING
EE	EACH END
EF	EACH FACE, EXTERIOR FINISH, EXHAUST FAN
EFS	EXTERIOR FINISH SYSTEM
EG	EDGE GRAIN
EGB	EXTERIOR GYPSUM BOARD
EGRD	EYE GUARD
EGSB	EXTERIOR GYPSUM SHEATHING BOARD
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EJM	EXPANSION JOINT MASONRY
EL	ELEVATION
ELAST	ELASTOMERIC
ELEC	ELECTRIC, ELECTRICAL
ELEC DR OP	ELECTRIC DOOR OPENER
ELEM	ELEMENTARY
ELEV	ELEVATOR, ELEVATION
EM	EXPANDED METAL
EMER	EMERGENCY
EMER SHR	EMERGENCY SHOWER
ENAM	ENAMEL
ENCL	ENCLOSURE
ENGR	ENGINEER
ENTR	ENTRANCE
EPS	EXPANDED POLYSTYRENE BOARD (INSULATION)
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQL SP	EQUALLY SPACED
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ERD	EXISTING ROOF DRAIN
ESCAL	ESCALATOR
EST	ESTIMATE
ETC	ET CETERA
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EWS	EYE WASH STATION
EX	EXAMPLE
EXCL	EXCLUDE
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPAND, EXPANSION, EXPOSED
EXP BT	EXPANSION BOLT
EXST GR	EXISTING GRADE
EXT	EXTERIOR, EXTERNAL, EXTINGUISHER
EXT GR	EXTERIOR GRADE
EXT LT	EXIT LIGHT
EXTN	EXTENSION
EXTRU	EXTRUSION
F BRK	FIRE BRICK
F/F	FACE TO FACE
FAB	FABRIC
FACIL	FACILITY
FAS	FASCIA
FAS BD	FASCIA BOARD
FB	FLAT BAR
FC	FILE CABINET
FC BRK	FACE BRICK
FCTY	FACTORY
FD	FLOOR DRAIN
FDR	FIRE DOOR
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FX	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF EL	FINISH FLOOR ELEVATION
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
FGL	FIBERGLASS
FH	FLAT HEAD SCREWS
FHC	FIRE HOSE CABINET
FHMS	FLAT HEAD MACHINE SCREW
FHP	FULL HEIGHT PARTITION
FHWS	FLAT HEAD WOOD SCREW
FIG	FIGURE
FIL	FILLET
FIN	FINISH
FIN FLR	FINISH FLOOR
FIN GR	FINISH GRADE
FIN WD	FINISH WOOD
FIXT	FIXTURE
FL	FLOORLINE
FLASH	FLASHING
FLDG	FOLDING
FLEX	FLEXIBLE
FLG	FLOORING
FLR	FILLER, FLOOR
FLR FIN	FLOOR FINISH
FLR SK	FLOOR SINK
FLUOR	FLUORESCENT
FLUT	FLUTING
FLUT CMU	FLUTED CONCRETE MASONRY UNIT
FMP	FLAT METAL PANEL
FN	FENCE
FOUNT	FOUNTAIN
FP	FIRE PROTECTION, FIRE PROOF, FLAGPOLE
FR	FIRE RATING, FIRE RESISTANT
FR	FRAME
FRA	FIRE RATED ASSEMBLY
FREQ	FREQUENCY
FRG	FIRE RATED GLASS
FRMG	FRAMING
FRST GL	FROSTED GLASS
FRTW	FIRE RETARDANT TREATED WOOD
FRZ	FREEZER
FSTNR	FASTENER
FT	FEET, FIRE TREATED, FOOT
FTG	FOOTING
FURG	FURRING
FURN	FURNISH, FURNITURE
FUS LINK	FUSIBLE LINK
FUT	FUTURE
FW	FIRE WALL
FWC	FABRIC WALLCOVERING
FX	FIRE EXTINGUISHER
G	GROUND
G	NATURAL GAS
GA	GAUGE
GALV	GALVANIC
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GD	GUARD
GDR	GUARD RAIL
GEN	GENERAL
GEN COND	GENERAL CONDITIONS
GEN PURP	GENERAL PURPOSE
GF	GROUND FACE BLOCK
GL	GLASS, GROUND LEVEL
GL BLK	GLASS BLOCK
GLZNG	GLAZING
GLX CMU	GLAZED CONCRETE MASONRY UNIT
GR BM	GRADE BEAM
GRV	GRAVITY ROOF VENT
GR FL	GROUND FLOOR
GR LN	GRADE LINE
GRAN	GRANITE
GRL	GRILLE
GROM	GROMMETAC
GRTG	GRATINGNT
GSU	GLAZED STRUCTURAL UNIT
GT	GROUT
GUT	GUTTER
GWB	GYPSUM WALL BOARD
GWT	GLAZED WALL TILE
GYM	GYMNASIUM
GYP	GYPSUM
GYP BD	GYPSUM BOARD
GYP PLAS	GYPSUM PLASTER
H	HATCH (ROOF), HIGH
H PLAM	HIGH PRESSURE PLASTIC LAMINATE
H&CW	HOT AND COLD WATER
HAZ	HAZARD
HAZ MAT	HAZARDOUS MATERIALS
HC	HANDICAP, HOLLOW CORE, HOSE CABINET
HCMU	HOLLOW CONCRETE MASONRY UNIT
HCP	HANDICAPPED
HD	HEAVY DUTY
HD JT	HEAD JOINT
HDBD	HARDBOARD
HDNR	HARDENER
HDR	HEADER
HDW	HARDWARE
HDWD	HARDWOOD
HGT	HEIGHT
HLDN	HOLDDOWN
HM	HOLLOW METAL
HMD	HOLLOW METAL DOOR
HMDF	HOLLOW METAL DOOR AND FRAME
HMF	HOLLOW METAL FRAME
HNDRL	HANDRAIL
HO	HOLD OPEN
HORIZ	HORIZONTAL
HP	HEAT PUMP
HR	HAND RAIL
HS	HAND SINK, HIGH STRENGTH
HT	HEIGHT
HT TRD	HEAT TREATED (GLASS)
HVAC	HEATING, VENTILATING, & AIR-CONDITIONING
HWY	HIGHWAY
HYDR	HYDRAULIC
ID	INSIDE DIAMETER, INSIDE DIMENSION
INBD	INBOARD
INCL	INCLUDED
INFO	INFORMATION
INSTL	INSTALL
INSUF	INSUFFICIENT
INSUL	INSULATION
INSUL PNL	INSULATED METAL PANEL
INT	INTERIOR
IPS	IRON PIPE SIZE
JAN	JANITOR
JAN CLO	JANITOR CLOSET
JST	JOIST
JT	JOINT
KO	KNOCKOUT
KOP	KNOCK OUT PANEL
L	ANGLE
L&P	LATH AND PLASTER
LAB	LABORATORY
LAD	LADDER
LAG	LAGGING
LAM	LAMINATE
LAM GL	LAMINATED GLASS
LAU	LAUNDRY
LAV	LAVATORY
LB	POUND
LBR	LUMBER
LCMU	LIGHTWEIGHT CONCRETE MASONRY UNIT
LD BRG	LOAD-BEARING
LDR	LEADER
LH	LEFT HANDRAME
LHR	LEFT HAND REVERSE
LHS	LEFT HAND SIDE
LIB	LIBRARY
LIQ	LIQUOR
LKNT	LOCKNUT
LKR	LOCKER
LKR RM	LOCKER ROOM
LKWASH	LOCKWASHER
LL	LOWER LEFT
LL GB	LEAD LINED GYPSUM BOARD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LMST	LIMESTONE
LN	LANE
LNDSCP	LANDSCAPE
LOC	LOCATION
LP	LIGHTPROOF
LPL	LIGHTPROOF LOUVER
LPT	LOW POINT
LPV	LIGHTPROOF VENT
LT	LIGHT
LT GA	LIGHT GAUGE
LT WT	LIGHTWEIGHT
LTD	LIMITED
LTG	LIGHTING
LVR	LOUVER
LWC	LIGHTWEIGHT CONCRETE
LWIC	LIGHTWEIGHT INSULATING CONCRETE
LYR	LAYER
LYT	LAYOUT
MACH	MACHINE
MACH RM	MACHINE ROOM
MAINT	MAINTENANCE
MAN	MANUAL
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MB	MARKER BOARD
MC	METAL-CLAD, MOISTURE CONTENTETAC
MCB	METAL CORNER BEAD
MD	METAL DECK
MEAS	MEASURE
MECH	MECHANICAL
MECH RM	MECHANICAL ROOM
MED	MEDIUM
MEL	MELAMINE
MEMB	MEMBRANE
METB	METAL BASE
METD	METAL DOOR
METF	METAL FLASHING
METP	METAL PARTITION
METR	METAL ROOF
MEZZ	MEZZANINE
MF	MASTIC FLOOR, MILL FINISH
MFD	MANUFACTURED
MFG	MANUFACTURING
MFGR	MANUFACTURER
MFR REC	MANUFACTURER'S RECOMMENDATION
MGT	MANAGEMENT
MH	MANHOLE
MID	MIDDLE
MIN	MINIMUM
MIRR	MIRROR
MISC	MISCELLANEOUS
MLDG	MOLDING (MOULDING)
MLWK	MILLWORK
MO	MASONRY OPENING
MOD	MODEL, MODIFY
MOD BIT	MODIFIED BITUMEN
MRB	MARBLE BASE
MRF	MARBLE FLOOR
MRT	MARBLE THRESHOLD
MS	MACHINE SCREW
MS	MOP SINK
MSB	MOP SERVICE BASIN
MT	METAL THRESHOLD, MOUNT
MTD	MOUNTED
MTG	MEETING
MTG	MOUNTING
MTL	METAL
MULL	MULLION
MULT	MULTIPLE
MVBL	MOVABLE
MWP	MEMBRANE WATERPROOFING
MX	MATCH EXISTING
N	NORTH
NA	NOT APPLICABLE
NAT	NATURAL
NE	NOT EXCEEDING
NIC	NOT IN CONTRACT
NLB	NONLOADBEARING
NO	NUMBER
NOM	NOMINAL
NON COM	NONCOMBUSTIBLE
NON STD	NONSTANDARD
NONFLAB	NONFLAMMABLE
NORM	NORMAL
NP	NO PAINTTOR
NTS	NOT TO SCALE
NUM	NUMERAL
O/	OVER
O/O	OUT TO OUT
OA	OVERALL
OBW	OBSERVATION WINDOW
O/C OR OC	ON CENTER
OD	OUTSIDE DIAMETER, OUTSIDE DIMENSION
OF	OUTSIDE FACE
OF/CI	OWNER FURNISHED/CONTRACTOR INSTALLED
OF/OI	OWNER FURNISHED/OWNER INSTALLED
OFD	OVERFLOW DRAIN
OFF	OFFICE
OGL	OBSCURE GLASS
OH	OVERHANG
OH DR	OVERHEAD (COILING) DOOR LH
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OPR	OPERABLE
OPT	OPTIONAL
OR	OUTSIDE RADIUS
ORD	OVERFLOW ROOF DRAIN
ORG	ORGANIC
ORIG	ORIGINAL
ORN	ORNAMENTAL
OUTBD	OUTBOARD
OVFL	OVERFLOW
OWGL	OBSCURE WIRED GLASS
OZ	OUNCE
PAR	PARAPET
PARG	PARGING
PART	PARTIAL, PARTITION
PASS	PASSENGER
PAT	PATTERN
PB	PAINTED BASE, PANIC BAR, PUSHBUTTON
PBD	PARTICLEBOARD
PC	PIECE, PORTLAND CEMENT
PCC	PRECAST CONCRETE
PCPRA	PORTLAND CEMENT PLASTER
PED	PEDESTAL
PEJ	PREMOLDED EXPANSION JOINT
PENG	PENETRATE
PEND	PENDANT
PERFR	PERFORATED
PERIM	PERIMETER
PERM	PERMANENT
PERP	PERPENDICULAR
PHOTO	PHOTOGRAPH
PHS	PHILLIPS HEAD SCREW
PIL	PILASTER
PK LOT	PARKING LOT
PKG	PACKAGE
PL GL	PLATE GLASS
PLAM	PLASTIC LAMINATE
PLAS	PLASTER, PLASTIC
PLAT	PLATFORM
PLB	PLUMB
PLBG	PLUMBING
PLC	PLACE
PLST WAL	PLASTER WALL
PLYWD	PLYWOOD
PMET	PAINTED METAL
PN	PART NUMBER
PNL	PANEL
PO	POST OFFICE
POL	POLISHED
POLY	POLYETHYLENE (PLASTIC)
POLYISO	POLYISOCYANURATE
PORC	PORCELAIN
PORT	PORTABLE
PP	PITCH POCKET
PP	PUSH/PULL
PP PL	PUSH/PULL PLATE
PPGL	POLISHED PLATE GLASS
PR	PAIR
PR	PIPE RAIL
PRCST	PRECAST
PREFAB	PREFABRICATE
PREFIN	PREFINISH
PREFMD	PREFORMED
PRELIM	PRELIMINARY
PREP	PREPARATION
PRIN	PRINCIPAL
PRKG	PARKING
PRMLD	PREMOLDED
PROJ	PROJECT
PROP	PROPERTY
PS CONC	PRESTRESSED CONCRETE
PSL	PIPE SLEEVE
PT	PAINT, PRESSURE TREATED, POINT
PTD	PAPER TOWEL DISPENSER, PAINTED
PTN	PARTITION
PTV	PLASMA TELEVISION
PUR	PURLINS
PVC	POLYVINYL CHLORIDE (PLASTIC)
PVG	PAVING
PW	PASS WINDOW
QT	QUARRY TILE
QTB	QUARRY TILE BASE
QTF	QUARRY TILE FLOOR
QTR	QUARTER
QTY	QUANTITY
QUAL	QUALITY
R	RADIUS, RISER
RB	RESILIENT BASE, RUBBER BASE
RB HK	ROBE HOOK
RBR	RUBBER
RC	REINFORCED CONCRETE
RCP	REFLECTED CEILING PLAN
RCPTN	RECEPTION
RCV	RECEIVE
RD	ROOF DRAIN, ROAD
RDG INS	RIGID INSULATION, SOLID
REBAR	REINFORCING STEEL BARS
REC	RECESSED
REC ROOM	RECREATION ROOM
RECT	RECTANGLE
REF	REFERENCE, REFRIGERATOR
REFL	REFLECT
REIN	REINSTALL
REINF	REINFORCE
REM	REMOVABLE
REP	REPAIR
REPL	REPLACE
REQ	REQUIRE
REQD	REQUIRED
RESIL	RESILIENT
REST	RESTROOM
REV	REVISION
RF	RESILIENT FLOORING
RFG	ROOFING
RH	RIGHT HAND, ROOF HATCH
RHMS	ROUND HEAD MACHINE SCREW
RHR	RIGHT HAND REVERSE
RHWS	ROUND HEAD WOOD SCREW
RL	RAIN LEADER
RLG	RAILING
RM	ROOM
RMV	REMOVE
RND	ROUND
RO	ROUGH OPENING
RQD	REQUIRED
RSD	ROLLING STEEL DOOR
RT	RIGHT
RTE	ROOF TOP EQUIPMENT
RTG	RATING
RTN	RETURN
RTU	ROOF TOP UNIT
RV	ROOF VENT
RVL	REVEAL
RVS	REVERSEAPE
S	SOUTH
SA	SINGLE ACTING (DOOR), SUPPLY AIRFACTU
SAG	SUPPLY AIR GRILLE
SALV	SALVAGE
SAN	SANITARY
SAT	SUSPENDED ACOUSTICAL TILE
SATC	USPENDED ACOUSTICAL TILE CEILING
SB	SPLASH BLOCK
SB STR	SUBSTRATE
SC	SOLID CORE
SCH	SCHOOL
SCHED	SCHEDULE
SCHEM	SCHEMATIC
SCMU	SOLID CONCRETE MASONRY UNIT
SCP	SCUPPER
SCR	SHOWER CURTAIN ROD
SCRN	SCREEN
SCT	STRUCTURAL CLAY TILE
SCWD	SOLID CORE WOOD DOOR
SDL	SADDLE
SECT	SECTION
SEG	SEGMENT
SF	STOREFRONT
SGD	SLIDING GLASS DOOR
SGL	SINGLE
SH	SINGLE HUNG (WINDOW)
SHFT	SHAFT (ELEVATOR)
SHLF	SHELF
SHR	SHOWER
SHR HD	SHOWER HEAD
SHRD	SHOWER DRAIN
SHT	SHAFT, SHEET
SHTMTL FLASH	SHEET METAL FLASHING
SHTHG	SHEATHING
SHTR	SHUTTER
SHV	SHELVING
SIM	SIMILAR
SJ	SCORED JOINT, SAW JOINT
SJ	SLIP JOINT
SKLT	SKYLIGHT
SLD WDW	SLIDING WINDOW
SLDG	SLIDING
SLNT	SEALANT
SLV	SLEEVE
SM	SHEET METAL, SMALL, SMOOTH
SMK	SMOKE
SMLS	SEAMLESS
SMP	SUMP PUMP
SND INS	SOUND INSULATION
SP EL	SPOT ELEVATION
SP FIN	SPECIAL FINISH
SPCL	SPECIAL
SPCR	SPACER
SPEC	SPECIFICATION
SPKR	SPEAKER
SQ	SQUARE
SQ BR	SQUARE BAR
SS	STAINLESS STEEL, STANDING SEAM (ROOF)
SSP	STAINLESS STEEL PIPE
SSM	SOLID SURFACE MATERIAL
SSMR	STANDING SEAM MTL ROOF
SSMS	STANDING SEAM MTL SIDING
ST	STAIRS, STREET
STA	STATION
STAG	STAGGERED
STD	STANDARD
STIF	STIFFENER
STL	STEEL
STL JST	STEEL JOIST
STL LNTL	STEEL LINTEL
STL PL	STEEL PLATE
STL RF DK	STEEL ROOF DECK
STL TB	STEEL TUBE
STL TR	STEEL TRUSS
STNLS	STAINLESS
STOR	STORAGE
STR	STRAIGHT, STRIKE, STRINGER(S)
STRM	STOREROOM
STRUCT	STRUCTURAL
STRUCT STL	STRUCTURAL STEEL
SUB	SUBSTITUTE
SUB FL	SUBFLOOR
SUF	SUFFICIENT
SUM	SUMMARY
SUP	SUPPLEMENTARY
SUPP	SUPPORT
SUPPL	SUPPLEMENT
SURF	SURFACE
SURR	SURROUND
SUSP	SUSPEND
SUSP CLG	SUSPENDED CEILING
SV	SHEET VINYL
SVCE	SERVICE OF
SW	SIDEWALK
SWDR	SWING DOOR
SWG	SEWAGE
SWGR	SWITCHGEAR
SYM	SYMBOL
SYMM	SYMMETRICAL
SYNTH	SYNTHETIC
SYS	SYSTEM
T	TREAD,TEMPERED
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
T/S	TUB/SHOWER
TAN	TANGENT
TB	THROUGH BOLT, TOWEL BAR, TACKBOARD
TC	TERRA COTTA
TD	TRENCH DRAIN
TE	TOP ELEVATION
TECH	TECHNICAL
TEJ	TRANSVERSE EXPANSION JOINT
TEL	TELEPHONE
TEMP	TEMPERATURE, TEMPORARY, TEMPERED
TEMP HDBD	TEMPERED HARDBOARD
TER	TERRAZZO
TES	TAPERED EDGE STRIP
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
TFF	TOP OF FINISH FLOOR
THK	THICKNESS
THKNS	THICKNESS
THRES	THRESHOLD
THRU	THROUGH
THRUOUT	THROUGHOUT
TK BD	TACKBOARD
TMPD	TEMPERED
TMPD GL	TEMPERED GLASS
TO	TOP OF __
TO FDN	TOP OF FOUNDATION
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOC	TOP OF CURB
TOC FTG	TOP OF CONCRETE FOOTING
TOC WALL	TOP OF CONCRETE WALL
TOF	TOP OF FLOOR
TOF	TOP OF FOOTING
TOF	TOP OF FRAME
TOJ	TOP OF JOIST
TOL	TOLERANCE
TOM	TOP OF MASONRY
TOP	TOP OF PARAPET
TOP	TOP OF PAVEMENT
TOS	TOP OF SLAB
TOS	TOP OF STEEL
TOT	TOP OF TRUSS
TOW	TOP OF WALL
TR	TOP OF RIM
TRANS	TRANSOM
TRANS	TRANSPARENT
TRANS WD FIN	TRANSPARENT WOOD FINISH
TRTD	TREATED
TS	TUBE STEEL
TV	TELEVISION
TYP	TYPICAL
UC	UNDERCUT
UL	UNDERWRITERS LABORATORIES
UNEX	UNEXCAVATED
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
UTIL	UTILITY
VAR	VARIES
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VENT	VENTILATION
VERT	VERTICAL
VEST	VESTIBULE
VFAT	VINYL FACED ACOUSTICAL TILE
VIC	VICINITY
VIF	VERIFY IN FIELD
VNR	VENEER
VP	VENEER PLASTER
VR	VAPOR RETARDER
VRFY	VERIFY
VTR	VENT THRU ROOF
VWC	VINYL WALL COVERING
VWF	VINYL WALL FABRIC
W	WEST, WIDE
W CAB	WALL CABINETS
W/	WITH
W/O	WITHOUT
W/W	WALL TO WALL
WB	WOOD BASE
WBL	WOOD BLOCKING
WBS	WROUGHT BRASS
WC	WATER CLOSET
WC WL HNG	WATER CLOSET, WALL HUNG
WCLR	WATER COOLER
WD	WOOD
WDW	WINDOW
WF	WIDE FLANGE
WF BM	BEAM, WIDE FLANGE
WFAB	WALL FABRIC
WGL	WIRE GLASS
WH	WALL HUNG
WHSE	WAREHOUSE
WI	WROUGHT IRON
WIRE	WIRE
WLD	WELDED
WM	WIRE MESH
WOM	WALK OFF MAT
WP	WATERPROOF
WPM	WATERPROOF MEMBRANE
X	EXISTING, CROSS

HUDSON+ASSOCIATES
ARCHITECTS
120 WEST QUEENS WAY SUITE 201 HAMPTON, VA.
(757) 722-1964 23669

SECURITY VESTIBULE &
OFFICE ADDITION &
& ALTERATIONS FOR
YATES ELEMENTARY SCHOOL
73 MAXWELL LANE
NEWPORT NEWS, VIRGINIA 23606

RICHARD S. CORNER
Lic. No. 007014
12-30-24

FEBRUARY 4, 2025

ABBREVIATIONS

JOB NUMBER 2312

G0.02

RESPONSIBLE LAND DISTURBER DESIGNATION

THE PERSON IDENTIFIED BELOW IS DESIGNATED AS THE RESPONSIBLE LAND DISTURBER WHO WILL BE IN CHARGE OF AND RESPONSIBLE FOR CARRYING OUT THE LAND DISTURBING ACTIVITY ASSOCIATED WITH THIS PROJECT. THE PERSON MEETS THE APPLICABLE REQUIREMENTS OF VIRGINIA CODE SECTION 10.1-563 AND 10.1-566 BY VIRTUE OF THE FOLLOWING:

_____ RESPONSIBLE LAND DISTURBER CERTIFICATE

_____ DCR CERTIFICATION FOR COMBINED ADMINISTRATOR, ADMINISTRATOR, PLAN REVIEWER INSPECTOR, OR CONTRACTOR.

__X__ VIRGINIA PROFESSIONAL ENGINEER, LAND SURVEYOR, LANDSCAPE ARCHITECT, OR ARCHITECT

RESPONSIBLE LAND DISTURBER CONTACT INFORMATION:

NAME (SIGNATURE): _____
NAME (PRINT): DANIEL ELLIS RUBY
CERTIFICATION/REGISTRATION NUMBER: 043841
COMPANY: TIMMONS GROUP
MAILING ADDRESS: 2901 SOUTH LYNNHAVEN ROAD, SUITE 200, VIRGINIA BEACH, VA 23452
TELEPHONE (757) 213-6661
EMAIL DAN.RUBY@TIMMONS.COM

THIS DESIGNATION MAY ONLY BE CHANGED BY A PLAN COVER SHEET REVISION THAT MUST BE SUBMITTED TO THE CITY FOR VERIFICATION AND APPROVAL.
THE DEPARTMENT OF PUBLIC WORKS/ENGINEERING MUST BE CONTACTED AT LEAST 48 HOURS PRIOR TO MEETING. PLEASE CALL (757) 664-4600

SITE STATISTICAL DATA

1.	**PROPERTY ADDRESS**	73 MAXWELL LN, NEWPORT NEWS, VA, 23606
2.	**EXISTING PARCEL ID**	181000429
3.	**ZONING**	P1 PARK DISTRICT
4.	**P1 PARK DISTRICT SETBACKS**	**FRONT YARD: 30 FT** **REAR YARD: 20 FT** **SIDE YARD: INTERIOR LOT 20 FT - CORNER LOT 30 FT**
5.	**JPA/WETLANDS PERMIT REQUIRED**	NO
6.	**CHESAPEAKE BAY PRESERVATION AREA**	NO
7.	**OVERLAY DISTRICT**	AIRPORT HORIZONTAL ZONE
8.	**EXISTING USE**	PUBLIC/PRIVATE SCHOOL K-12
9.	**PROPOSED USE**	PUBLIC/PRIVATE SCHOOL K-12
10.	**WATERSHED**	JAMES RIVER - PAGAN RIVER
11.	**FLOOD PLAIN INFORMATION**	ZONE 'X' OUTSIDE 0.2% ANNUAL CHANCE FLOOD HAZARD AREA
12.	**FEMA FIRM INFORMATION**	NUMBER: 510103 | PANEL: 0109D | EFFECTIVE 12/09/2014
13.	**TOPOGRAPHIC SURVEY SOURCE**	TIMMONS GROUP
14.	**HORIZONTAL DATUM**	NAVD88
15.	**VERTICAL DATUM**	NEWPORT NEWS GEODETIC CONTROL NETWORK REFERENCE NO: 67005
16.	**PROPERTY AREA**	EXISTING PROPERTY AREA: 757,853 SF = 17.40 AC
17.	**DISTURBED AREA**	2,427.61 SF (0.056 AC)
18.	**GROUND COVER DATA**	

OVERALL SITE 620,307 SF = 14.24 AC

PRE-DEVELOPMENT IMPERVIOUS AREA:	166,337 SF	3.82 AC (26%)
PRE-DEVELOPMENT PERVIOUS AREA:	453,970 SF,	10.42 AC (74%)
POST-DEVELOPMENT IMPERVIOUS AREA:	167,573 SF,	3.84 AC (27%)
POST-DEVELOPMENT PERVIOUS AREA:	452,734 SF,	10.40 AC (73%)

LIMITS OF DISTURBANCE 2405 SF = 0.055 AC

PRE-DEVELOPMENT IMPERVIOUS AREA:	921 SF,	0.021 AC (38%)
PRE-DEVELOPMENT PERVIOUS AREA:	1,484 SF,	0.034 AC (62%)
POST-DEVELOPMENT IMPERVIOUS AREA:	2,101 SF,	0.048 AC (87%)
POST-DEVELOPMENT PERVIOUS AREA:	304 SF,	0.007 AC (13%)

19.	**SOIL TYPE(S)**	PER USDA NRCS WEB SOIL SURVEY 9A | CRAVEN -URBAN LAND COMPLEX | HSG D | 0 - 2% SLOPES

ADVISORY NOTES

1. ALL EXCAVATED MATERIAL SHALL BE DISPOSED OF IN A LAWFUL MANNER. THE CONTRACTOR SHALL COORDINATE THE HAUL ROUTE, MATERIAL QUANTITIES, TRUCK CAPACITIES AND NUMBER OF TRIPS WITH THE CITY ENGINEERING INSPECTOR.
2. ANY AND ALL MATERIALS OR DEBRIS TRACKED ONTO A PUBLIC OR PRIVATE ROAD SURFACE WILL BE REMOVED AT THE END OF EACH DAY. SEDIMENT WILL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND WILL BE TRANSPORTED TO A SEDIMENT CONTROLLED DISPOSAL AREA.
3. THE CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO ALL OWNERS AND RESIDENTS OF THE PROPERTIES ADJACENT TO THE PROJECT SITE 30 DAYS PRIOR TO THE COMMENCEMENT OF WORK UNLESS OTHERWISE DIRECTED BY THE CITY.
4. THE CONTRACTOR SHALL FIELD-VERIFY THE LOCATION, DEPTH, AND SIZE OF EXISTING UNDERGROUND UTILITIES. THE LOCATIONS SHOWN ARE APPROXIMATE AND NOT GUARANTEED BY TIMMONS GROUP. THE CONTRACTOR SHALL ALERT THE CIVIL ENGINEER OF ANY DISCREPANCIES.
5. THE DIRECTOR OF ENGINEERING OR HIS AUTHORIZED REPRESENTATIVE SHALL STOP ALL SITE CONSTRUCTION IMPROVEMENTS AND/OR ALTERATIONS IN THE EVENT OF ANY DEVIATION FROM THE APPROVED PLAN OR ON THE DISCOVERY OF UNEXPECTED ADVERSE IMPACTS OF THE DEVELOPMENT ACTIVITY ON ADJACENT PROPERTY OR PUBLIC FACILITIES.

ADJACENT PROPERTY OWNERS NOTE

THE CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO ALL PROPERTY OWNERS AND RESIDENTS OF PROPERTIES ADJACENT TO THE DEVELOPMENT OR OFFSITE IMPROVEMENTS, 30 DAYS PRIOR TO THE COMMENCEMENT OF WORK, UNLESS OTHERWISE DIRECTED BY THE CITY. CONSTRUCTION WITHIN EASEMENTS OR IN PUBLIC RIGHTS-OF-WAY NECESSITATES NOTICE WHETHER ADJACENT TO OR LOCATED ON THE ADJOINING PROPERTY. FAILURE TO PROVIDE THE MINIMUM NOTIFICATION TIME WILL RESULT IN A SUSPENSION OF WORK.

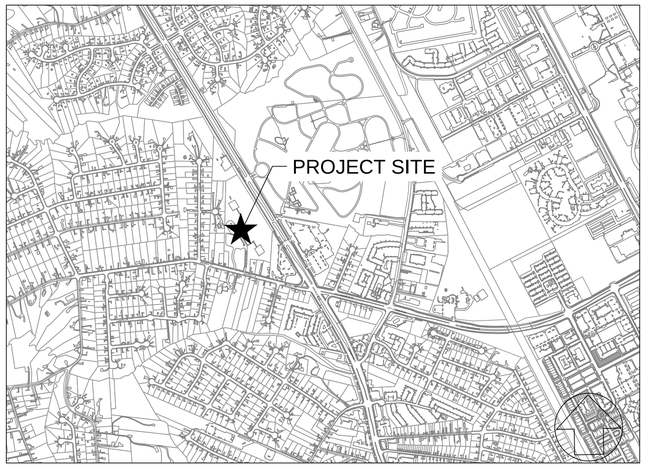
YATES ELEMENTARY SCHOOL BUILDING ADDITION

NEWPORT NEWS, VA

CIVIL SITE PLANS

FEBRUARY 12, 2025

FILE: #



SITE LOCATION **VICINITY MAP** 1"=1000'

Sheet List Table

APPROVALS

TIMMONS GROUP IS NOT RESPONSIBLE OR LIABLE FOR ANY CONSTRUCTION OR DAMAGES TO THIS PROJECT PRIOR TO ALL FINAL PLAN APPROVALS.

MISS UTILITY OF VIRGINIA

THE CONTRACTOR SHALL CALL "MISS UTILITY" 48 HOURS PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHOWN ON PLANS IN AREAS OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT THE ENGINEER IMMEDIATELY IF THE LOCATION OR ELEVATION IS DIFFERENT FROM THAT SHOWN ON THE PLAN. IF THERE APPEARS TO BE A CONFLICT, AND/OR UPON DISCOVERY OF ANY UTILITY NOT SHOWN ON PLAN. THE DEVELOPER SHALL BE RESPONSIBLE FOR THE RELOCATION OF ANY UTILITY WITHIN THE EXISTING AND/OR RIGHT-OF-WAY REQUIRED BY THE DEVELOPMENT. CONTACT MISS UTILITY OF VIRGINIA: 1-800-552-7001 (TOLL FREE) OR DIAL 811.

RESPONSIBLE LAND DISTURBER NOTE

THE PROFESSIONAL WHOSE SEAL IS AFFIXED HEREON SHALL ACT AS THE "RESPONSIBLE LAND DISTURBER" FOR THE PURPOSES OF PLAN APPROVAL ONLY. PRIOR TO THE ISSUANCE OF THE LAND DISTURBING PERMIT, THE OWNER OR DEVELOPER SHALL PROVIDE THE NAME OF A "RESPONSIBLE LAND DISTURBER" WHO SHALL ASSUME RESPONSIBILITY AS THE "RESPONSIBLE LAND DISTURBER" FOR THE CONSTRUCTION PHASE OF THE PROJECT. THE OWNER OR DEVELOPER SHALL PROVIDE WRITTEN NOTIFICATION SHOULD THE "RESPONSIBLE LAND DISTURBER" CHANGE DURING CONSTRUCTION.

SIGNATURE BLOCK FOR CITY USE

OWNER/DEVELOPER

THE SCHOOL BOARD OF NEWPORT NEWS
PUBLIC SCHOOLS
12465 WARWICK BLVD
NEWPORT NEWS, VA 23606
CONTACT: MR. STEPHEN SMITH
PHONE: (757) 881-5024
EMAIL: STEPHEN.SMITH@NN.K12.VA.US

CIVIL ENGINEER

TIMMONS GROUP
2901 S. LYNNHAVEN ROAD
SUITE 200
VIRGINIA BEACH, VA 23452
PROJECT MANAGER: DAN RUBY, PE
PHONE: (757) 213-6661
EMAIL: DAN.RUBY@TIMMONS.COM

ARCHITECT

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120 WEST QUEENS WAY, SUITE 201
HAMPTON, VA 23669
PROJECT MANAGER: RICHARD S. CORNER
PHONE: (757) 722-1964
EMAIL: RCORNER@HUDSONARCH.COM

CITY PLAN

CITY OF NEWPORT NEWS
DEPARTMENT OF PLANNING
2400 WASHINGTON AVE, 2ND FLOOR
NEWPORT NEWS, VA 23607
CONTACT: KATIE CHAMBERLAIN
PHONE: (757) 926-8075
EMAIL: CHAMBERLAINKE@NNVA.GOV

COMMONWEALTH OF VIRGINIA
DANIEL R. RUBY
Lic. No. 043841
2/12/2025
PROFESSIONAL ENGINEER

THIS DRAWING PREPARED AT THE
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1001 Boulders Parkway, Suite 300 | Richmond, VA 23225
TEL. 804.200.6500 FAX 804.560.1016 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

REVISION DESCRIPTION

DATE

DATE 02/12/2025
DRAWN BY N. AMIN
DESIGNED BY N. AMIN
CHECKED BY D. RUBY
SCALE -

TIMMONS GROUP

YATES ELEMENTARY SCHOOL BUILDING ADDITION
CITY OF NEWPORT NEWS, VIRGINIA
COVER SHEET

JOB NO. 64092
SHEET NO. C0.0

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Newport News General Notes

CONSTRUCTION

1. All construction methods and materials shall conform with the current Newport News Design Criteria Manual, VDOT Standards and Specifications, VDOT Road and Bridges Standards and Specifications, latest edition of the Hampton Roads Planning District Commission (HRPDC) Regional Construction Standards, the Newport News Special Provisions of the HRPDC Regional Construction Standards, the Stormwater Management Handbook, Virginia DEQ Stormwater Design Specifications, Virginia Erosion and Sediment Control regulations and any other applicable city or state ordinance, code and/or law.
2. Exterior concrete shall be Virginia Department of Transportation (VDOT) Class A3.
3. The contractor shall be responsible for locating and protecting all existing utilities whether or not they are shown on the plan. The contractor shall repair, at their own expense, all utilities damaged by construction activities. The contractor shall follow all "Miss Utilities of Virginia" policies prior to starting any construction activity.
4. All costs associated with the required relocation/adjustment of utilities and/or obstructions (power poles, telephone pedestals, guy wires, water meters, streetlights, etc.) due to construction of the project are the responsibility of the owner/developer.
5. All costs associated with the installation and upgrade of streetlights and other utilities for the construction of the project are the responsibility of the owner/developer.
6. There shall be one (1) R7-8 Handicap sign with an additional plate reading "PENALTY $100 – $500 TOW-AWAY ZONE" per handicap parking space provided. At least one (1) out of every eight (8) handicap spaces shall be van accessible. All designated van accessible spaces shall have "VAN ACCESSIBLE" added to the sign assembly. The required handicap sign assemblage shall be mounted in accordance with the current ANSI A117.1 Standard for Accessible and Usable Buildings and Facilities.

FIRE

7. Fire hydrants must be located so that at least one hydrant is capable of reaching the rear of the building. The required distances from the fire hydrants, as well as the required fire flow, is set by the current edition of the water design standards of Newport News Waterworks. Minimum fire hydrant spacing is currently every 400 feet for commercial/industrial application, and every 600 feet for residential.
8. The hydrant distances shall be measured by an approved route around the exterior of the facility or building, and shall be measured along the natural and unobstructed path of vehicle travel.
9. Any bushes, trees, fencing or any other potential obstruction shall be identified and be a minimum of 3 feet from fire hydrants and other fire suppression equipment.
10. Fire Department connections (FDC) shall be located on a street front, a minimum of 40 feet from the building, and no more than 100 feet from a fire hydrant.
11. Minimum width of all fire lanes shall be 20 feet unless otherwise approved by the Fire Code official. Minimum height of canopies (and/or other items) that overhang into the fire lane must be 13 feet and 6 inches. Fire lanes shall be surfaced with heavy duty asphalt per the current city standards.
12. A fire apparatus access road shall extend to within 150 feet of all portions of the building and all portions of the exterior walls of the first story of the building as measured by an approved route around the exterior of the building/facility. (Certain exceptions, such as a fire sprinkler system, may apply.)
13. Fire apparatus access roads shall have an unobstructed width of not less than 20 feet unless otherwise required by the Fire Code official and an unobstructed vertical clearance of 13 feet 6 inches. The Fire Code official is authorized to require more than one fire apparatus access road based on occupancy use, location, etc.
14. Fire apparatus access roads shall be designed and maintained to support the imposed load of fire apparatus and shall be surfaced to accommodate all weather driving conditions. (The current minimum weight load utilized for fire apparatus calculation is 80,000 pounds.) Dead end fire apparatus roads in excess of 150 feet in length shall be provided with an approved area for turning around fire apparatus. The required turning radius of a fire apparatus access road shall be determined by the Fire Code official. (The current minimum turning radius for fire apparatus is 29 feet.)
15. An approved water supply for fire protection, either temporary or permanent, shall be made available as soon as combustible materials arrive on site.
16. Approved vehicle access for firefighting shall be provided to all construction or demolition sites. Vehicle access shall be provided to within 100 feet of temporary or permanent fire department connections. Vehicle access shall be provided by either temporary or permanent roads, capable of supporting vehicle loading under all weather conditions. Vehicle access shall be maintained until permanent fire apparatus access has been fully constructed.

SEWER

17. All proposed PVC sanitary sewer pipe and fittings shall be ASTM 3034 SDR 26.
18. All proposed ductile iron sanitary sewer pipe shall be minimum thickness Class 52.
19. All proposed ductile iron sanitary sewer force main compact fittings shall have a minimum acceptable pressure rating of 250 psi.
20. All sanitary sewer gravity pipes placed below 10 feet in cover or less than 3 feet in cover shall be made of ductile iron.
21. A Newport News standard access point/cleanout shall be placed at the city right of way for all sanitary sewer laterals.
22. Any sanitary sewer gravity line that crosses a water line with 18 inches or less of vertical separation or a main the runs parallel to a water line with less than 10feet of separation, shall be made of ductile iron.
23. Reinforced concrete pipe are required in areas subject to traffic loads.

PAVEMENT MARKINGS

24. All proposed on-site pavement markings shall be reflectorized Type A (paint) or Type B (preformed or thermoplastic material) in accordance with the latest edition of the VDOT Road and Bridge Specifications. Parking spaces shall be delineated by 4-inch white lines, (federal standard color #595-17886 or equivalent), handicapped parking spaces shall be delineated by 4-inch blue lines (Bennete's Paint Blue Wave Q13-28T or equivalent) for spaces and symbols, fire lanes and parcel pick-up markings shall be 4-inch yellow (federal standard color #595-13538 or equivalent).
25. All proposed pavement markings within city right of way shall be reflectorized Type B (preformed or thermoplastic material) in accordance with the latest edition of the VDOT Road and Bridge Specifications and as outlined in the Newport News/Department of Engineering's "Pavement Markings – Materials and Applications" specifications except as otherwise noted herein. Federal standard color #595-17886 or equivalent shall delineate white markings, handicapped parking spaces shall be delineated by Bennete's Paint Blue Wave Q13-28T or equivalent for spaces/symbols and federal standard color #595-13538 or equivalent shall delineate yellow markings. All permanent markings must be spotted and field verified by the city prior to installation by the contractor.
26. All pavement markings, signage and other permanent traffic control devices disturbed during construction activities shall be replaced/reinstalled. These items must be spotted and field verified by the city prior to installation by the contractor.

LANDSCAPING

27. Within landscaped and green areas, healthy existing trees of a minimum 6-inch diameter at breast height, measured at least 4 feet and 6 inches above grade, for single stemmed, deciduous trees, and a minimum of 8 feet in height for multi-stemmed or evergreen trees, shall be retained, preserved and protected during construction.
28. All existing trees to remain on-site, located within 50 feet of the limits of construction, must be tree protected in accordance with the city site regulations (Chapter 33.02 of the Newport News Code of Ordinances).
29. The property owner/developer, as applicable, shall be responsible for the perpetuation and maintenance of all site improvements, including landscaping, required by the city site regulations (Chapter 33.02 of the Newport News Code of Ordinances) and as shown on the approved plan.
30. Trees may not be severely trimmed beyond the ANSI A300 Standards for Tree Care Operations as amended. If trees are severely pruned in such a way to remove 50% or more of their height/spread, they will be considered damaged and shall be replaced with trees meeting the requirements of Chapter 33.02 of the Newport News Code of Ordinances.

LIGHTING

31. For the following site uses: Educational, Church, Parks, Residential, Manufacturing or Industrial the following lighting note must be included on the plan, "Exterior lighting must provide a minimum illumination level of 0.6 foot-candles for parking/driving areas, 1.1 foot-candles for open walkways and 4.3 foot-candles for enclosed walkways. Lighting must be installed and maintained in accordance with current Newport News regulations. Lighting shall be directed inward to the site and shielded so as not to illuminate or produce glare onto adjacent properties and/or onto the city right of way."
32. For all other uses including but not limited to: Medical, Office Park, Shopping, Wholesale and Retail the following lighting note must be included on the plan, "Exterior lighting must provide a minimum illumination level of 0.9 foot-candles for parking/driving areas, 2.2 foot-candles for open walkways and 4.3 foot-candles for enclosed walkways. Lighting must be installed and maintained in accordance with current Newport News regulations. Lighting shall be directed inward to the site and shielded so as not to illuminate or produce glare onto adjacent properties and/or onto the city right of ways."

PERMITS AND PRE-CONSTRUCTION

33. For any land disturbing activities 2,500 square feet, or greater, a land disturbance/VSMP permit is required from the Department of Planning.
34. For any land disturbance activities 1 acre, or greater, a Construction General Permit (CGP) is required. The Virginia Stormwater Management Program (VSMP) Authority, Newport News, shall issue the land disturbance/VSMP permit prior to any work. A stormwater pollution prevention plan (SWPPP) shall be prepared for the project and a hard copy be presented to the Environmental Services Inspector at the pre-construction meeting.
35. Prior to construction within any city right of way, the contractor shall obtain a right of way permit from the Department of Planning. The owner/developer or their representative shall submit an itemized cost list of the work within the city right of way. A temporary traffic control plan shall be submitted for review and approval.
36. All temporary pavement markings, signage and other traffic control devices shall meet the fabrication and/or installation requirements of the Manual on Uniform Traffic Control Devices (MUTCD), latest edition.
37. Prior to any mobilization or construction activity, the contractor shall request and attend a pre-construction meeting with the Department of Engineering's Construction Inspector and the Environmental Services Inspector. To request the meeting call 757-933-2311.
38. Prior to installation of the landscaping materials, an inspection with the Landscape Planner is required. Please contact the Planning Department at 757-926-8761.
39. Plans for automatic sprinkler systems shall be reviewed and approved by the Department of Codes Compliance prior to installation.
40. Signs are reviewed and approved under a separate submittal and review by the Department of Codes Compliance.
41. The city manager, or designee, can stop site construction, improvements and/or alterations in the event of any deviation from the approved plan or on the discovery of unexpected adverse impacts of the development activity on adjacent property or public facilities.

Rev. 11/2022

CIVIL PROJECT GENERAL NOTES

1. THIS SITE PLAN SHALL BE PREPARED AND SUBMITTED IN ACCORDANCE WITH THE SITE PLAN REGULATIONS OF THE NEWPORT NEWS CITY CODE AND ALL APPLICABLE SECTIONS OF THE ZONING ORDINANCE.
2. ALL ERRORS OR DISCREPANCIES WITH THE PLANS OR EXISTING CONDITIONS SHALL BE REPORTED TO THE ENGINEER OR SURVEYOR OF RECORD BEFORE PROCEEDING WITH THE WORK.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION EFFORTS WITH DOMINION VIRGINIA POWER, VIRGINIA NATURAL GAS, VERIZON, COX COMMUNICATIONS, NEWPORT NEWS WATER WORKS, NEWPORT NEWS PUBLIC WORKS, HAMPTON ROADS SANITATION DISTRICT (HRSD), VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT), AND OTHER ENTITIES THAT MAY BE REQUIRED.
4. THE CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF THE APPROVED PLANS AT THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.
5. THE CONTRACTOR SHALL SATISFY HIMSELF AS TO ALL SITE CONDITIONS PRIOR TO CONSTRUCTION.
6. DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A CLEAN WORK SITE AND REMOVAL OF CONSTRUCTION DEBRIS AND MATERIALS.
7. THE CONTRACTOR SHALL USE ONLY NEW MATERIALS, PARTS, AND PRODUCTS ON THIS PROJECT. ALL MATERIALS SHALL BE STORED SO AS TO ASSURE THE PRESERVATION OF THEIR QUALITY AND FITNESS FOR THE WORK.
8. ALL STAGING OF CONSTRUCTION VEHICLES AND EQUIPMENT SHALL BE ON-SITE. NO VEHICLES WILL BE ALLOWED TO PARK WITHIN THE RIGHT-OF-WAY OF ANY PUBLIC STREET UNLESS THE VEHICLE IS BEING USED AS PART OF AN ACTIVE CONSTRUCTION ZONE WITHIN THE ROADWAY.
9. CONTRACTOR'S LAYDOWN/STORAGE AREA IS LIMITED TO THE AREA WITHIN THE SITE'S CONSTRUCTION LIMITS AND PROPERTY.
10. DESIGN MATERIAL, EQUIPMENT, AND PRODUCTS OTHER THAN THOSE INDICATED IN THE DRAWINGS SHALL NOT BE CONSIDERED UNLESS PRIOR APPROVAL IS OBTAINED FROM THE OWNER'S REPRESENTATIVE, DESIGN ENGINEER, AND THE APPLICABLE GOVERNING CODE AUTHORITY.
11. A VSMP PERMIT SHALL BE OBTAINED WHEN LAND DISTURBED IS GREATER THAN ONE (1) ACRE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILLING OUT THE CONSTRUCTION ACTIVITY OPERATOR INFORMATION AND SIGNING THE CERTIFICATION FOR THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) APPLICATION. THE CONTRACTOR SHALL MAINTAIN THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) ON-SITE, KEEP THE SWPPP UP-TO-DATE AND MODIFY AS NECESSARY TO SUIT THE PROJECT'S CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING THE VSMP PERMIT TO THE COMMONWEALTH OF VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ) AND PAYING THE VSMP PERMIT FEE. .
12. ALL DISTURBED AREAS, INCLUDING BUT NOT LIMITED TO PAVEMENT, SHOULDERS, DITCHES, HEADWALLS, ENDWALLS, CULVERT PIPES, FENCES, CURB AND GUTTER, UTILITIES, DRIVEWAYS, SIGNS, MAILBOXES, ETC., SHALL BE REPAIRED TO A CONDITION EQUAL TO OR BETTER THAN THOSE EXISTING PRIOR TO CONSTRUCTION, OR AS SHOWN ON THE DRAWINGS. SIGNS, MAILBOXES, AND GUARDRAILS THAT ARE DISTURBED SHALL BE RETURNED TO THEIR ORIGINAL LOCATIONS DAILY, AND MAINTAINED THROUGHOUT THE PROJECT.
13. THE CONTRACTOR SHALL REESTABLISH ALL EXISTING PROPERTY PINS AND MONUMENTS DISTURBED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE DEVELOPER.
14. ON-SITE EXTERIOR CONCRETE IS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI WITH 5% TO 7% AIR ENTRAINMENT, UNLESS OTHERWISE NOTED.
15. ALL WALKS AND SIMILAR PAVED SURFACES SHALL HAVE A MINIMUM 1.0% AND MAXIMUM 2.0% CROSS SLOPE AND SHALL MEET ALL LOCAL AND FEDERAL REQUIREMENTS.
16. ALL PROPOSED PAVING SURFACES SHALL MEET ADJACENT PAVING SURFACES IN A SMOOTH CONTINUOUS MANNER, FLUSH ALONG ENTIRE COMMON EDGE. .
17. DIMENSIONS ARE TO FACE OF BUILDING OR FACE OF CURB UNLESS OTHERWISE NOTED.
18. EXPANSION JOINTS IN CONCRETE SHALL BE PROVIDED AROUND ALL JUNCTIONS, STRUCTURES, OR FIXED OBSTRUCTIONS.
19. ALL UNPAVED AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE GRADED TO DRAIN, TOPSOILED, SEEDED, MULCHED, AND FERTILIZED.
20. UNLESS OTHERWISE NOTED ON THE PLANS, ALL SIDEWALKS SHALL HAVE TRANSVERSE CONTROL JOINTS SPACED AT THE WIDTH OF WALK (NOT TO EXCEED 10-FEET) AND 1/2-INCH TRANSVERSE EXPANSION JOINTS SPACED AT INTERVALS NOT TO EXCEED 50-FEET. CONTROL JOINTS SHALL BE 1-INCH DEEP AND 1/4-INCH WIDE. EXPANSION JOINTS SHALL BE CONSTRUCTED USING EXPANSION JOINT MATERIAL PLACED 1/2-INCH BELOW FINISHED SURFACE. ROUND EDGES OF CONCRETE WITH 1/8-INCH RADIUS.
21. ALL CONCRETE SIDEWALKS, CURBS, AND GUTTERS INDICATED TO BE REMOVED OR REPLACED, SHALL BE DONE SO TO THE NEAREST JOINT.
22. ONCE SIDEWALK CLOSURES ARE IN PLACE, THE WORK MUST BEGIN IMMEDIATELY, PROGRESS OVER CONTINUOUS DAYS, AND REOPEN AS SOON AS THE WORK IS COMPLETE IN ORDER TO MINIMIZE THE DISRUPTION TO PEDESTRIAN TRAFFIC.

TRAFFIC CONTROL, SIGNAGE, AND MARKINGS

1. TEMPORARY TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE VIRGINIA WORK AREA PROTECTION MANUAL.
2. ALL TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS.
3. TRAFFIC ON EXISTING ROADWAYS MUST BE MAINTAINED DURING CONSTRUCTION WHEN ANY WORK IS BEING PERFORMED WITHIN THE EXISTING RIGHT OF WAY. THE MAINTENANCE OF TRAFFIC PLAN FOR THIS WORK MUST BE IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL AND ANY OTHER AVAILABLE PROVISIONS.
4. CONSTRUCTION ACTIVITIES THAT REQUIRE A SINGLE LANE CLOSURE SHALL BE PERFORMED BETWEEN THE HOURS OF 9:00 AM AND 3:00 PM.

DEMOLITION NOTES

1. THE CONTRACTOR SHALL STRICTLY ADHERE TO THE CLEARING LIMITS AS SHOWN ON THE APPROVED PLAN. IF IT IS NECESSARY TO CLEAR TREES BEYOND THE LIMITS OF DISTURBANCE, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER AND COORDINATE THE WORK PRIOR TO ANY CLEARING.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING WITH MATCHING MATERIALS, ANY PAVEMENT, CONCRETE, CURBS, ETC. THAT MUST BE CUT OR THAT ARE DAMAGED DURING CONSTRUCTION.

GRADING AND DRAINAGE NOTES

1. ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE AS SHOWN ON THE PLANS.
2. ALL FILL MATERIAL SHALL BE VOID OF DEBRIS AND PLACED IN UNIFORM LIFTS.
3. COMPACTION SHALL BE PERFORMED WITH HEAVY COMPACTION EQUIPMENT.
4. COMPACT SUBGRADE TO 98% OF STANDARD PROCTOR THEORETICAL MAXIMUM DRY DENSITY (ASTM D-698).
5. ALL OBJECTIONABLE AND DELETERIOUS MATERIAL IS TO BE REMOVED FROM THE SITE AND DISPOSED OF IN A STATE-APPROVED FACILITY MEETING THE REQUIREMENTS OF ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING COMPACTION TEST RESULTS BY A GEOTECHNICAL ENGINEER TO THE OWNER FOR VERIFICATION OF PROPER COMPACTION.
7. WHEN MATERIAL UNSUITABLE FOR FOUNDATION, SUBGRADES, OR OTHER PURPOSES OCCURS WITHIN THE LIMITS OF CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE SUCH MATERIAL AND BACKFILL WITH APPROVED SUITABLE MATERIAL. THE EXTENT OF UNDERCUTTING AND BACKFILLING TO BE DETERMINED BY THE OWNER'S SOILS ENGINEERING CONSULTANT.
8. TOPSOIL SHALL BE STOCKPILED SEPARATELY FROM OTHER EXCAVATION, AND PLACED BACK IN THE R R M R R R R R D R R D PIPELINE EXCAVATION.
9. STORM SEWERS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE HAMPTON ROADS PLANNING DISTRICT COMMISSION (HRPDC) REGIONAL CONSTRUCTION STANDARDS, THE LATEST EDITION OF THE NEWPORT NEWS DESIGN CRITERIA MANUAL AND THE LATEST EDITION OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD AND BRIDGE STANDARDS AND SPECIFICATIONS AS APPLICABLE.
10. STORM SEWER PIPING SHALL BE CLASS III REINFORCED CONCRETE PIPE (RCP), SMOOTH WALL INTERIOR HIGH-DENSITY POLYETHYLENE (HDPE) PIPE, SDR 35 POLYVINYL CHLORIDE (PVC) PIPE, OR CLASS 52 DUCTILE IRON PIPE (DIP), AS SHOWN ON THE PLANS.
11. STORM STRUCTURES SHALL CONFORM TO THE CURRENT VDOT ROAD AND BRIDGE STANDARDS AND VDOT SPECIFICATIONS. ALL MANHOLES SHALL INCLUDE INLET SHAPING (IS-1) AND MANHOLES DEEPER THAN 4 FEET SHALL HAVE STEPS (ST-1). PIPE BEDDING SHALL BE IN ACCORDANCE WITH VDOT STANDARD 'PB-1' AND MANUFACTURER'S SPECIFICATIONS AND GUIDELINES.
12. ALL THERMOPLASTIC, HDPE, PE, AND NON-CONCRETE PIPE JOINTS AND CONNECTIONS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE DETAILS SUPPLIED BY THE MANUFACTURER AND SHOWN ON THE PLAN. WHEN CONNECTING TO DRAINAGE STRUCTURES (PRE-CAST, CAST-IN-PLACE, CONCRETE BLOCK, BRICK, ETC.) ALL PIPES MUST BE INSTALLED IN ACCORDANCE WITH ASTM AND VDOT REQUIREMENTS AND THE PUBLIC WORKS SPECIFICATIONS AND STANDARDS SECTION 2.2.2 TO ELIMINATE THE POTENTIAL FOR SHEAR FAILURE, TO BE SOIL TIGHT, AND LEAK RESISTANT (FLEXIBLE CONNECTORS).
13. TEMPORARY DRAINAGE DURING CONSTRUCTION SHALL BE PROVIDED BY THE CONTRACTOR TO RELIEVE AREAS THAT MAY CAUSE DAMAGE TO ROADWAYS AND SURROUNDING AREAS.
14. ALL ONSITE STORM DRAIN PIPES WITHIN THE PROJECT LIMITS SHALL BE VACUUMED CLEAN AFTER ESTABLISHMENT OF PERMANENT SEEDING.
15. INLET PROTECTION DEVICES SHALL BE INSTALLED ON EACH NEW INLET IMMEDIATELY AFTER IT IS CONSTRUCTED AND SHALL REMAIN IN PLACE UNTIL PERMISSION TO REMOVE THE PROTECTION DEVICE HAS BEEN GRANTED BY THE CIVIL ENGINEERING INSPECTOR.
16. ALL CUT AND FILL SLOPES 4H:1V OR GREATER SHALL BE PROPERLY ROUGHENED OR SCARIFIED PRIOR TO THE PLACEMENT OF THE NEXT LIFT OF FILL. SOIL SURFACES SHALL BE ROUGHENED IN ACCORDANCE WITH THE LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL MANUAL, STD. & SPEC. 3.29: SURFACE ROUGHENING.
17. ALL CUT AND FILL SLOPES 4H:1V OR GREATER SHALL BE LINED WITH VDOT EC-2 SOIL STABILIZATION MATTING TO PROTECT AGAINST EROSION.

COMMONWEALTH OF VIRGINIA
DANIEL R. RUBY
Lic. No. 043841
2/12/2025
PROFESSIONAL ENGINEER

THIS DRAWING PREPARED AT THE
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YOUR VISION ACHIEVED THROUGH OURS.

REVISION DESCRIPTION

DATE

DATE 02/12/2025
DRAWN BY N. AMIN
DESIGNED BY N. AMIN
CHECKED BY D. RUBY
SCALE -

TIMMONS GROUP

YATES ELEMENTARY SCHOOL BUILDING ADDITION
CITY OF NEWPORT NEWS, VIRGINIA
GENERAL NOTES

JOB NO. 64092
SHEET NO. C0.1

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SURVEY NOTES:

1. PROPERTY ADDRESS: RICHARD T. YATES ELEMENTARY SCHOOL
   73 MAXWELL LANE
   TAX PARCEL ID NO.: 181000429
   OWNER OF RECORD: CITY OF NEWPORT NEWS SCHOOL BOARD

2. DATUM
   VIRGINIA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE
   HORIZONTAL DATUM : NSRS2007
   VERTICAL DATUM: NAVD88 (GEOID18)
   UNITS: U.S. SURVEY FEET HORIZONTAL AND VERTICAL POSITIONS WERE DETERMINED BY GPS METHODS USING THE LEICA VIRTUAL REFERENCE STATION (VRS) SERVICE.

3. THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF PRESTON C. JUDSON L.S. FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION; THE ORIGINAL DATA WAS OBTAINED ON MAY 7, 2024; THIS MAP MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.

4. THIS SURVEY DOES NOT CONSTITUTE A BOUNDARY SURVEY.

5. THIS DRAWING WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT. THIS PROPERTY IS SUBJECT TO EASEMENTS, SERVITUDES, COVENANTS, AND RESTRICTIONS OF RECORD.

6. UTILITIES SHOWN HEREON ARE BASED UPON:
   SUE QUALITY LEVEL B, ASCE 38-02 - FIELD DESIGNATION OF UNDERGROUND UTILITIES PERFORMED BY MISS UTILITY TICKET # IN CONJUNCTION WITH FIELD DESIGNATION BY TIMMONS GROUP.

   UTILITY OWNERS:
   - DOMINION ENERGY (POWER)
   - NEWPORT NEWS (WATER)

7. THE PROPERTY SHOWN HEREON IS LOCATED IN FLOOD ZONE "X" OTHER AREAS, BASED ON FEMA FLOOD INSURANCE RATE MAP (FIRM), MAP NO. 5101030109D EFFECTIVE 12/9/2014.

NAD 83

SCALE 1"=50'

0 50' 100'

LEGEND:

- DECIDUOUS TREE
- SHRUB
- SIGN
- CONCRETE
- FLAG POLE
- UTILITY POLE
- LIGHT POLE
- GUY WIRE
- UTILITY VAULT, AS NOTED
- WATER VALVE
- FIRE HYDRANT
- SIAMESE CONNECTION
- SPIGOT
- CATCH BASIN
- ROOF DRAIN / DOWN-SPOUT
- CLEAN-OUT
- SAN — SANITARY SEWER
- CENTERLINE ROAD
- EDGE OF PAVEMENT (EP)
- BUILDING
- ROOF DRAIN
- TC TOP OF CURB ELEVATION
- FL FLOW LINE
- EP EDGE OF PAVEMENT
- TBM TEMPORARY BENCHMARK

COMMONWEALTH OF VIRGINIA
DANIEL R. RUBY
Lic. No. 043841
2/12/2025
PROFESSIONAL ENGINEER

THIS DRAWING PREPARED AT THE
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YOUR VISION ACHIEVED THROUGH OURS.

TIMMONS GROUP

DATE	REVISION DESCRIPTION

DATE 02/12/2025
DRAWN BY N. AMIN
DESIGNED BY N. AMIN
CHECKED BY D. RUBY
SCALE 1" = 50'

YATES ELEMENTARY SCHOOL BUILDING ADDITION

CITY OF NEWPORT NEWS, VIRGINIA

OVERALL SITE

JOB NO. 64092
SHEET NO. C0.2

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LEGEND:

- DECIDUOUS TREE
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- CONCRETE
- FLAG POLE
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- ROOF DRAIN
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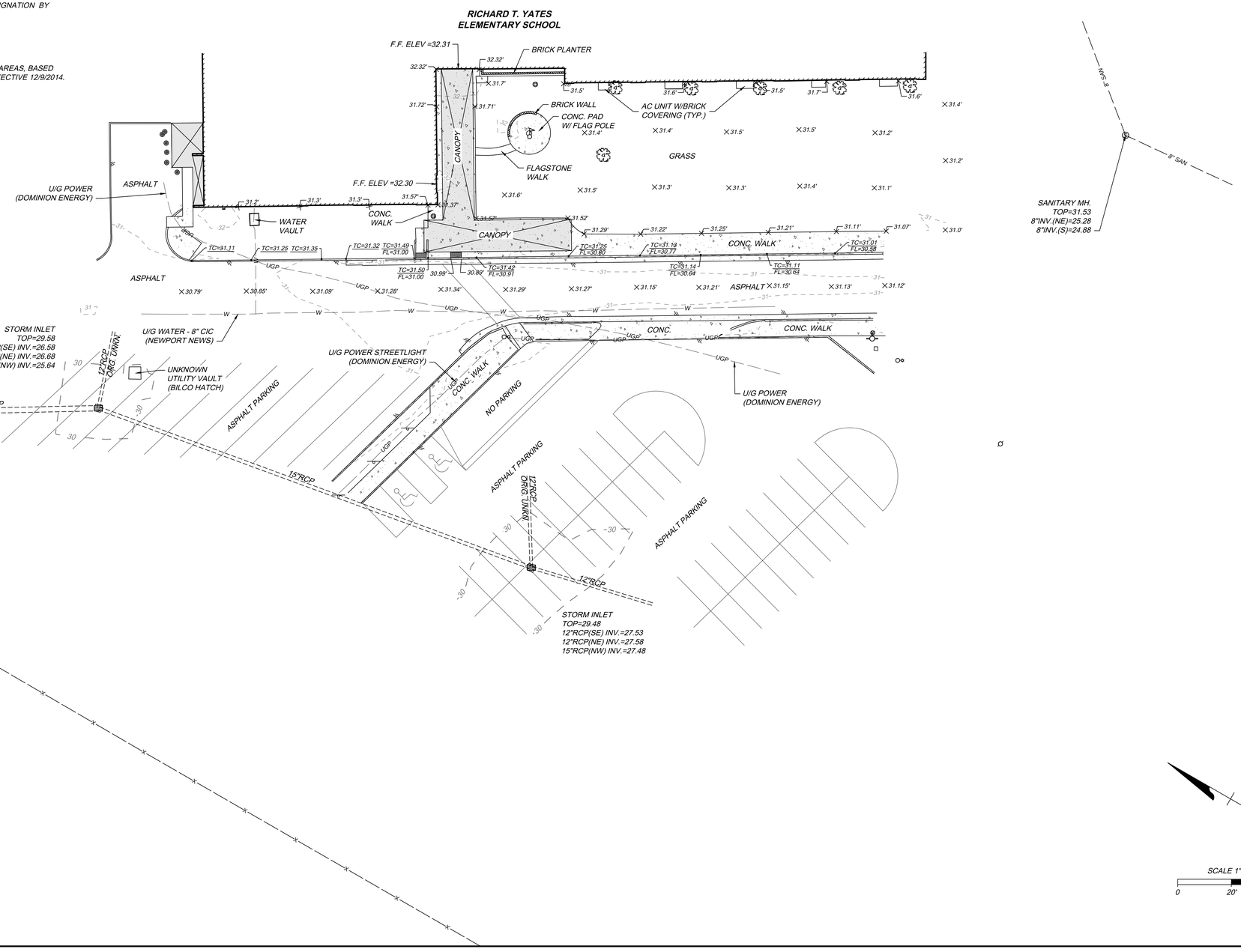
- EP EDGE OF PAVEMENT
- TBM TEMPORARY BENCHMARK



COMMONWEALTH OF VIRGINIA
DANIEL R. RUBY
Lic. No. 043841
2/12/2025
PROFESSIONAL ENGINEER

THIS DRAWING PREPARED AT THE
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YOUR VISION ACHIEVED THROUGH OURS.

REVISION DESCRIPTION	DATE

DATE 02/12/2025
DRAWN BY N. AMIN
DESIGNED BY N. AMIN
CHECKED BY D. RUBY
SCALE 1" = 20'

TIMMONS GROUP

YATES ELEMENTARY SCHOOL BUILDING ADDITION

CITY OF NEWPORT NEWS, VIRGINIA

EXISTING CONDITIONS

JOB NO. 64092
SHEET NO. C1.0

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION

THIS PROJECT SITE IS LOCATED IN 73 MAXWELL LN, NEWPORT NEWS, VA 23606. THE PURPOSE IS TO PROVIDE A BUILDING ADDITION WITH A SECURITY VESTIBULE TO RICHARD T YATES ELEMENTARY SCHOOL IN NEWPORT NEWS, VIRGINIA. THE TOTAL BUILDING ADDITION WILL BE 1,855 SF. ADDITIONAL SITE IMPROVEMENTS INCLUDE REPLACEMENT OF SIDEWALKS, ROOF DRAIN DOWNSPOUTS AND PIPE CONNECTIONS WITH TRENCH DRAINS. APPROXIMATELY 2,405 SF (0.055 AC) WILL BE DISTURBED.

EXISTING CONDITIONS

THE SITE CURRENTLY CONSIST OF A SCHOOL BUILDING WITH ASSOCIATED PARKING LOT AND PLAYGROUND AREAS WITH ATHLETIC SPORT FIELDS. THERE IS ONLY ONE ACCESS POINT TO THE OFF MAXWELL LANE. SLOPES WITHIN
M D R R R M R M D R
D D D D RD R .

ADJACENT AREAS

THE SCHOOL PROPERTY IS BOUNDED BY WARWICK BOULEVARD TO THE NORTH, SINGLE FAMILY RESIDENTIAL NEIGHBORHOODS TO THE SOUTH, COMMERCIAL BUILDINGS TO THE EAST AND SINGLE FAMILY RESIDENTIAL / WOODS AREAS TO THE WEST.

SOIL PROPERTIES

RD R R D D D D R M R R D
(HTTP://WEBSOILSURVEY.NRCS.USDA.GOV/APP/HOMEPAGE.HTM) THE EXISTING SITE HAS THE FOLLOWING SOIL CHARACTERISTICS:

MAP UNIT: 9A | CRAVEN-URBAN LAND COMPLEX, HYDROLOGIC SOIL GROUP: D

CRITICAL AREAS

THIS SITE IS NOT LOCATED IN ANY KNOWN CRITICAL AREAS.

DEMOLITION

DEMOLITION ACTIVITIES ONLY CONSIST OF SECTIONS OF THE EXISTING SIDEWALKS LEADING TO THE SCHOOL FRONT DOOR ENTRANCE AND THE CONCRETE PATH LEADING TO THE FLAG POLE.

STORMWATER CONSIDERATIONS

STORMWATER OVERVIEW

THE PROPOSED IMPROVEMENTS ARE MINOR AND WILL NOT IMPACT STORMWATER MANAGEMENT. THE PROJECT WILL MAINTAIN DRAINAGE PATTERNS BETWEEN THE PRE AND POST CONDITIONS. SINCE THE LIMITS OF DISTURBANCE ARE LESS THAN 2,500 SF A STORMWATER ANALYSIS WILL NOT BE PROVIDED.

EROSION AND SEDIMENT CONTROL

EROSION AND SEDIMENT CONTROL MEASURES

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL (VESC) HANDBOOK. THE MINIMUM STANDARDS OF THE VESC REGULATIONS SHALL BE ADHERED TO UNLESS OTHERWISE WAIVED OR APPROVED BY A VARIANCE.

THE FOLLOWING MEASURES SHALL BE INSTALLED AND MAINTAINED AS SHOWN ON THE EROSION & SEDIMENT CONTROL PLANS:

SAFETY FENCE: (STD. & SPEC. 3.01)
SAFETY FENCE SHALL BE INSTALLED TO PREVENT ACCESS TO AND EROSION CONTROL MEASURE. APPLICABLE TO ANY CONTROL MEASURE OR SERIES OF MEASURES WHICH CAN BE CONSIDERED UNSAFE BY VIRTUE OF POTENTIAL FOR ACCESS BY THE PUBLIC.

SILT FENCE - STD. & SPEC. 3.05
TEMPORARY SILT FENCE SEDIMENT BARRIERS WILL BE INSTALLED AROUND THE PERIMETER OF THE LIMITS OF DISTURBANCE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE SITE. IN AREAS CURRENTLY OCCUPIED BY ASPHALT PAVEMENT, SILT FENCE SHALL BE INSTALLED IMMEDIATELY AFTER THE PAVEMENT HAS BEEN REMOVED.

STORM DRAIN INLET PROTECTION - STD. & SPEC. 3.07
ALL STORM DRAIN INLETS WITHIN THE PROJECT DISTURBED AREA AND IMMEDIATE VICINITY SHALL BE PROTECTED DURING CONSTRUCTION. INLET PROTECTION SHALL BE INSTALLED ON ALL EXISTING INLETS.

TOPSOILING (SOIL STOCKPILE): (STD. & SPEC. 3.30)
TOPSOIL SHALL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED IN SUCH A MANNER THAT NATURAL DRAINAGE IS NOT OBSTRUCTED, AND NO OFF-SITE SEDIMENT DAMAGE SHALL RESULT. STABILIZE OR PROTECT STOCKPILES IN ACCORDANCE WITH MS-2 OF THE VESCH. SIDE SLOPES OF THE STOCKPILE SHALL NOT EXCEED 3H:1V. PERIMETER CONTROLS MUST BE PLACED AROUND THE STOCKPILE IMMEDIATELY. STOCKPILES SHALL BE SEEDED WITHIN SEVEN (7) DAYS OF THE FORMATION OF THE STOCKPILE IF IT IS TO REMAIN DORMANT FOR LONGER THAN 14 DAYS.

TEMPORARY SEEDING - STD. & SPEC. 3.31
ALL DENUDED AREAS THAT WILL REMAIN DORMANT FOR A PERIOD OF TIME GREATER THAN 14 DAYS SHALL BE SEEDED WITH FAST GERMINATING TEMPORARY VEGETATION IMMEDIATELY FOLLOWING GRADING. SELECTION OF VEGETATION WILL BE DEPENDENT ON THE TIME OF YEAR IT IS APPLIED.

PERMANENT SEEDING - STD. & SPEC. 3.32
PERMANENT SEEDING WILL BE ESTABLISHED ON ALL NON-PAVED DISTURBED AREAS.

MULCHING - STD. & SPEC. 3.35
MULCH WILL BE APPLIED TO ALL SEEDED AREAS TO PREVENT EROSION AND FOSTER THE GROWTH OF VEGETATION.

TREE PROTECTION - STD. & SPEC. 3.38
TREES TO BE PRESERVED DURING CONSTRUCTION SHALL BE ADEQUATELY PROTECTED FROM MECHANICAL OR OTHER INJURY DURING LAND DISTURBING ACTIVITIES. PROTECTIVE DEVICES SHALL BE INSTALLED AROUND THE DRIP LINE OF THESE TREES TO CLEARLY DESIGNATE THE LIMITS OF CLEARING AND GRADING.

DUST CONTROL: (STD. & SPEC. 3.39)
AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST MUST BE STABILIZED DURING CONSTRUCTION TO MINIMIZE DUST RELEASE. METHODS INCLUDE BUT ARE NOT LIMITED TO VEGETATIVE COVER, MULCH, OR IRRIGATION.

SPECIFICATIONS FOR ESC MEASURES

SPECIFICATIONS FOR ALL E&S MEASURES USED ON THIS PROJECT CAN BE FOUND IN THE" VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK"(VESCH), AS WELL AS ON THE PLAN SHEETS. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL CONSTRUCTION SPECIFICATIONS, INSTALLATION PROCEDURES, AND MAINTENANCE PROCEDURES AS LISTED IN VESCH.

E&S MANAGEMENT STRATEGIES

THE FOLLOWING SEQUENCE OF EVENTS AND EROSION CONTROL MEASURES SHALL BE INCORPORATED INTO THE CONSTRUCTION SCHEDULE FOR THIS PROJECT AND SHALL APPLY TO ALL CONSTRUCTION ACTIVITIES WITHIN THE PROJECT LIMITS.

1. SOIL STABILIZATION:
A. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE.
B. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS, BUT LESS THAN ONE YEAR.
C. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.
2. SOIL STOCKPILE STABILIZATION: DURING CONSTRUCTION, SOIL STOCKPILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. TEMPORARY PROTECTION AND PERMANENT STABILIZATION SHALL BE APPLIED TO ALL SOIL STOCKPILES ON SITE AND BORROW AREAS OR SOIL INTENTIONALLY TRANSFERRED OFF SITE.
3. PERMANENT STABILIZATION: PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IS:
UNIFORM
MATURE ENOUGH TO SURVIVE
WILL INHIBIT EROSION
4. SEDIMENT TRAPS: SEDIMENT TRAPS INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.
5. CUT AND FILL SLOPES DESIGN & CONSTRUCTION: CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.
6. CONCENTRATED RUNOFF DOWN SLOPES: CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME, OR SLOPE DRAIN STRUCTURE.
7. SLOPE MAINTENANCE: WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.
8. STORM SEWER INLET PROTECTION: ALL STORM SEWER INLETS MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE STORMWATER CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED/TREATED TO REMOVE SEDIMENT.
9. STORMWATER CONVEYANCE PROTECTION: BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS OR PIPES ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND THE RECEIVING CHANNEL.
10. UNDERGROUND UTILITY LINE INSTALLATION: UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:
A. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME
B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES
C. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY
D. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION
E. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS
F. COMPLY WITH APPLICABLE SAFETY REGULATIONS
11. VEHICULAR SEDIMENT TRACKING: WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS:
A. PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE
B. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY
C. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER
12. REMOVAL OF TEMPORARY MEASURES: ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE PROGRAM AUTHORITY. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.

E&S MAINTENANCE

IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED AFTER EACH RAINFALL OR WEEKLY, WHICHEVER IS MOST FREQUENT, AND SHOULD BE CLEANED AND REPAIRED ACCORDING TO THE FOLLOWING SCHEDULE.

1. SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND REPAIRED IMMEDIATELY, AS REQUIRED. MAINTAIN SILT FENCE IN ACCORDANCE WITH STD. & SPEC. 3.05 OF THE VESCH.
2. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION AND BUILDUP OR CLOGGING WITH SEDIMENT. CORRECTIVE ACTION SHALL BE TAKEN IMMEDIATELY.
3. ALL SEEDED AREAS WILL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED AND RE-SEEDED AS NEEDED.
4. ALL TEMPORARY EROSION AND SEDIMENT MEASURES SHALL BE DISPOSED OF WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED AND VEGETATION IS ESTABLISHED. FINAL SITE STABILIZATION SHALL BE APPROVED BY THE CITY INSPECTOR.

PERMANENT STABILIZATION

AFTER FINAL GRADE IS ACHIEVED, THE SITE SHALL BE PERMANENTLY STABILIZED. SEED SHALL BE APPLIED TO ALL GRASS AREAS PER STANDARD AND SPECIFICATION PROVIDED ON THE PLAN SHEETS. OTHER AREAS WILL BE CHARACTERIZED BY IMPERVIOUS PAVEMENT OR SIDEWALKS, AS SHOWN ON THE LAYOUT PLAN.

SEQUENCE OF SITE CONSTRUCTION

PHASE I

1. SUBMIT AND OBTAIN ALL APPLICABLE PERMITS
2. PRIOR TO LAND DISTURBANCE, THE CONTRACTOR SHALL CONDUCT A PRE-CONSTRUCTION MEETING WITH THE MEMBERS OF THE CITY ENVIRONMENTAL SERVICES DIVISION AND THE CIVIL INSPECTION DIVISION.
3. DO NOT INITIATE ANY LAND DISTURBING ACTIVITIES UNTIL AUTHORIZED TO PROCEED BY THE OWNER.
4. INSTALL PERIMETER SILT FENCE AND SAFETY FENCE AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN.
5. OBTAIN AN EROSION CONTROL INSPECTION FROM THE CITY. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ANY ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AS DETERMINED BY THE INSPECTOR.
6. ONCE ALL EROSION AND SEDIMENT CONTROL MEASURES ARE INSTALLED, INSPECTED, AND OPERATIONAL, BEGIN SITE DEMOLITION. CONTRACTOR SHALL ENSURE THAT RUNOFF IS DIRECTED TOWARDS EROSION CONTROL MEASURES.
7. APPLY TEMPORARY SEEDING IMMEDIATELY TO ALL DISTURBED AREAS NOT TO BE BROUGHT TO FINAL GRADE FOR A PERIOD LONGER THAN 14 CALENDAR DAYS.

PHASE II

8. INSTALL ALL SITE IMPROVEMENTS INCLUDING BUILDING ADDITION, SIDEWALK, ROOF DRAIN PIPING CONNECTION, ETC.
9. REMOVE TEMPORARY EQUIPMENT, CONSTRUCTION MATERIALS, TRASH, AND DEBRIS FROM THE SITE.
10. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE NOT TO BE REMOVED UNTIL ALL DISTURBED AREAS OF THE SITE ARE STABILIZED AND THE CITY OF NEWPORT NEWS EROSION CONTROL INSPECTOR HAS AGREED THAT E&S MEASURES CAN BE REMOVED. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS OF FINAL STABILIZATION.

Virginia Erosion and Sediment Control Plan Minimum Standards (MS) Checklist
November 17, 2016

YES	N/A	9VAC25-840-40 Minimum Standards	Describe how MS is addressed on plan
X		MS1: Permanent or temporary soil stabilization shall be applied to denuded areas within seven days after final grade is reached on any portion of the site. Temporary soil stabilization shall be applied within seven days to denuded areas that may not be at final grade but will remain dormant for longer than 14 days. Permanent stabilization shall be applied to areas that are to be left dormant for more than one year.	Permanent and temporary seeding have been shown on the Erosion and Sediment Control plan sheets. These items have also been discussed in the Erosion Control narrative and Sequence of Site Construction.
X		MS2: During construction of the project, soil stock piles and borrow areas shall be stabilized or protected with sediment trapping measures. The applicant is responsible for the temporary protection and permanent stabilization of all soil stockpiles on site as well as borrow areas and soil intentionally transported from the project site.	This item has been discussed in the ESC narrative and plans.
X		MS3: A permanent vegetative cover shall be established on denuded areas not otherwise permanently stabilized. Permanent vegetation shall not be considered established until a ground cover is achieved that is uniform, mature enough to survive and will inhibit erosion.	Permanent seeding schedules have been provided in the plan set. Permanent seeding is shown on the Erosion and Sediment Control Plan.
X		MS4: Sediment basins and traps, perimeter dikes, sediment barriers and other measures intended to trap sediment shall be constructed as a first step in any land-disturbing activity and shall be made functional before upslope land disturbance takes place.	Perimeter silt fence shall be installed and remain in place during construction to trap sediment from leaving the site, as shown on the Erosion and Sediment Control plans.
	X	MS5: Stabilization measures shall be applied to earthen structures such as dams, dikes and diversions immediately after installation.	No diversion dams, dikes, or diversions are proposed on this plan set.
	X	MS6: Sediment traps and sediment basins shall be designed and constructed based upon the total drainage area to be served by the trap or basin. a. The minimum storage capacity of a sediment trap shall be 134 cubic yards per acre of drainage area and the trap shall only control drainage areas less than three acres. b. Surface runoff from disturbed areas that is comprised of flow from drainage areas greater than or equal to three acres shall be controlled by a sediment basin. The minimum storage capacity of a sediment basin shall be 134 cubic yards per acre of drainage area. The outfall system shall, at a minimum, maintain the structural integrity of the basin during a 25-year storm of 24-hour duration. Runoff coefficients used in runoff calculations shall correspond to a bare earth condition or those conditions expected to exist while the sediment basin is utilized.	No temporary sediment trap or basin is proposed on this plan set.
X		MS7: Cut and fill slopes shall be designed and constructed in a manner that will minimize erosion. Slopes that are found to be eroding excessively within one year of permanent stabilization shall be provided with additional slope stabilizing measures until the problem is corrected.	Cut and fill slopes have been designed to minimize the potential for erosion.
	X	MS8: Concentrated runoff shall not flow down cut or fill slopes unless contained within an adequate temporary or permanent channel, flume or slope drain structure.	Concentrated runoff down cut or fill slopes are not anticipated with this project.
X		MS9: Whenever water seeps from a slope face, adequate drainage or other protection shall be provided.	Notes have been added to the Management Strategies section of the Erosion Control Narrative stating this requirement.
	X	MS10: All storm sewer inlets that are made operable during construction shall be protected so that sediment-laden water cannot enter the conveyance system without first being filtered or otherwise treated to remove sediment.	Inlet protection will not be used since this site shows no nearby inlets. Silt fence is the ESC measure to be used during construction activities.
	X	MS11: Before newly constructed stormwater conveyance channels or pipes are made operational, adequate outlet protection and any required temporary or permanent channel lining shall be installed in both the conveyance channel and receiving channel.	Outlet protection is not provided in this project.
	X	MS12: When work in a live watercourse is performed, precautions shall be taken to minimize encroachment, control sediment transport and stabilize the work area to the greatest extent possible during construction. Nonerodible material shall be used for the construction of causeways and cofferdams. Earthen fill may be used for these structures if armored by nonerodible cover materials.	No work in live watercourses will occur.
	X	MS13: When a live watercourse must be crossed by construction vehicles more than twice in any six-month period, a temporary vehicular stream crossing constructed of nonerodible material shall be provided.	No work in live watercourses will occur.
	X	MS14: All applicable federal, state and local chapters pertaining to working in or crossing live watercourses shall be met.	No work in live watercourses will occur.
	X	MS15: The bed and banks of a watercourse shall be stabilized immediately after work in the watercourse is completed.	No work in live watercourses will occur.
X		MS16: Underground utility lines shall be installed in accordance with the following standards in addition to other applicable criteria: a. No more than 500 linear feet of trench may be opened at one time. b. Excavated material shall be placed on the uphill side of trenches. c. Effluent from dewatering operations shall be filtered or passed through an approved sediment trapping device, or both, and discharged in a manner that does not adversely affect flowing streams or off-site property. d. Material used for backfilling trenches shall be properly compacted in order to minimize erosion and promote stabilization. e. Restabilization shall be accomplished in accordance with this chapter. f. Applicable safety requirements shall be complied with.	The contractor shall abide by all MS-16 requirements while performing the site demolition.
	X	MS17: Where construction vehicle access routes intersect paved or public roads, provisions shall be made to minimize the transport of sediment by vehicular tracking onto the paved surface. Where sediment is transported onto a paved or public road surface, the road surface shall be cleaned thoroughly at the end of each day. Sediment shall be removed from the roads by shoveling or sweeping and transported to a sediment control disposal area. Street washing shall be allowed only after sediment is removed in this manner. This provision shall apply to individual development lots as well as to larger land disturbing activities.	A construction entrance is not provided in this project.
X		MS18: All temporary erosion and sediment control measures shall be removed within 30 days after final site stabilization or after the temporary measures are no longer needed, unless otherwise authorized by the VESCP authority. Trapped sediment and the disturbed soil areas resulting from the disposition of temporary measures shall be permanently stabilized to prevent further erosion and sedimentation.	This requirement is discussed in the Erosion Control Narrative and Sequence of Site Construction.
	X	MS19: Properties and waterways downstream from development sites shall be protected from sediment deposition, erosion and damage due to increases in volume, velocity and peak flow rate of stormwater runoff for the stated frequency storm of 24-hour duration in accordance with the following standards and criteria. Stream restoration and relocation projects that incorporate natural channel design concepts are not man-made channels and shall be exempt from any flow rate capacity and velocity requirements for natural or man-made channels: a. Concentrated stormwater runoff leaving a development site shall be discharged directly into an adequate natural or man-made receiving channel, pipe or storm sewer system. For those sites where runoff is discharged into a pipe or pipe system, downstream stability analyses at the outfall of the pipe or pipe system shall be performed. b. Adequacy of all channels and pipes shall be verified in the following manner: 1) The applicant shall demonstrate that the total drainage area to the point of analysis within the channel is one hundred times greater than the contributing drainage area of the project in question; or 2) (a) Natural channels shall be analyzed by the use of a two-year storm to verify that stormwater will not overtop channel banks nor cause erosion of channel bed or banks. (b) All previously constructed man-made channels shall be analyzed by the use of a ten-year storm to verify that stormwater will not overtop its banks and by the use of a two-year storm to demonstrate that stormwater will not cause erosion of channel bed or banks; and (c) Pipes and storm sewer systems shall be analyzed by the use of a ten-year storm to verify that stormwater will be contained within the pipe or system. c. If existing natural receiving channels or previously constructed man-made channels or pipes are not adequate, the applicant shall: 1) Improve the channels to a condition where a ten-year storm will not overtop the banks and a two-year storm will not cause erosion to channel the bed or banks; or 2) Improve the pipe or pipe system to a condition where the ten-year storm is contained within the appurtenances; 3) Develop a site design that will not cause the pre-development peak runoff rate from a twoyear storm to increase when runoff outfalls into a natural channel or will not cause the predevelopment peak runoff rate from a ten-year storm to increase when runoff outfalls into a manmade channel; or 4) Provide a combination of channel improvement, stormwater detention or other measures which is satisfactory to the VESCP authority to prevent downstream erosion. d. The applicant shall provide evidence of permission to make the improvements. e. All hydrologic analyses shall be based on the existing watershed characteristics and the ultimate development condition of the subject project. f. If the applicant chooses an option that includes stormwater detention, he shall obtain approval from the VESCP of a plan for maintenance of the detention facilities. The plan shall set forth the maintenance requirements of the facility and the person responsible for performing the maintenance. g. Outfall from a detention facility shall be discharged to a receiving channel, and energy dissipators shall be placed at the outfall of all detention facilities as necessary to provide a stabilized transition from the facility to the receiving channel. h. All on-site channels must be verified to be adequate. i. Increased volumes of sheet flows that may cause erosion or sedimentation on adjacent property shall be diverted to a stable outlet, adequate channel, pipe or pipe system, or to a detention facility. j. In applying these stormwater management criteria, individual lots or parcels in a residential, commercial or industrial development shall not be considered to be separate development projects. Instead, the development, as a whole, shall be considered to be a single development project. Hydrologic parameters that reflect the ultimate development condition shall be used in all engineering calculations. k. All measures used to protect properties and waterways shall be employed in a manner which minimizes impacts on the physical, chemical and biological integrity of rivers, streams and other waters of the state. l. Any plan approved prior to July 1, 2014, that provides for stormwater management that addresses any flow rate capacity and velocity requirements for natural or man-made channels shall satisfy the flow rate capacity and velocity requirements for natural or man-made channels if the practices are designed to i. detain the water quality volume and to release it over 48 hours; ii. detain and release over a 24-hour period the expected rainfall resulting from the one year, 24-hour storm; and iii. reduce the allowable peak flow rate resulting from the 1.5, 2, and 10-year, 24-hour storms to a level that is less than or equal to the peak flow rate from the site assuming it was in a good forested condition, achieved through multiplication of the forested peak flow rate by a reduction factor that is equal to the runoff volume from the site when it was in a good forested condition divided by the runoff volume from the site in its proposed condition, and shall be exempt from any flow rate capacity and velocity requirements for natural or man-made channels as m. For plans approved on and after July 1, 2014, the flow rate capacity and velocity requirements of unless such land-disturbing activities (i) are in accordance with provisions for time limits on applicability of approved design criteria in 9VAC25-870-47 or grandfathering in 9VAC25-870-48 of the Virginia Stormwater Management Program (VSMP) Regulation, in which case the flow rate capacity and velocity requirements of n. Compliance with the water quantity minimum standards set out in 9VAC25-870-66 of the Virginia Stormwater Management Program (VSMP) Regulation shall be deemed to satisfy the requirements of this subdivision 19.	MS-19 requirements are not applicable to this project since the land disturbance consist of less than 2,500 SF.

COMMONWEALTH OF VIRGINIA
DANIEL R. RUBY
Lic. No. 043841
2/12/2025
PROFESSIONAL ENGINEER

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YOUR VISION ACHIEVED THROUGH OURS.

REVISION DESCRIPTION

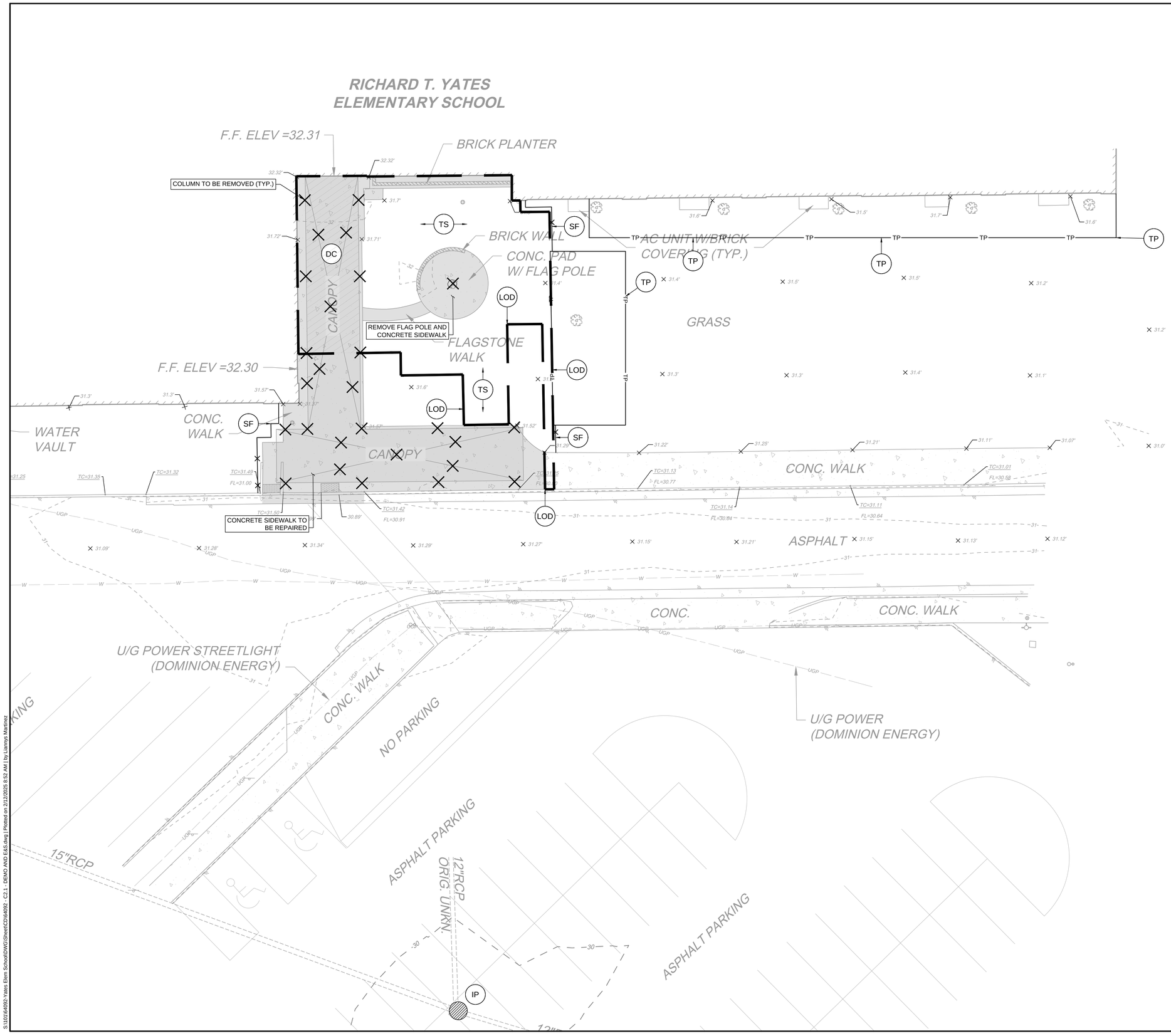
DATE

DATE
02/12/2025
DRAWN BY
N. AMIN
DESIGNED BY
N. AMIN
CHECKED BY
D. RUBY
SCALE
-

TIMMONS GROUP

YATES ELEMENTARY SCHOOL BUILDING ADDITION
CITY OF NEWPORT NEWS, VIRGINIA
E&S NARRATIVE

JOB NO.
64092
SHEET NO.
C2.0



DEMOLITION LEGEND

DEMOLISH GRAVEL AND PAVEMENT

DEMOLISH ROOF OVERHANG

LIMITS OF DISTURBANCE

REMOVE SURFACE FEATURE

PHASE I E&S CONTROL LEGEND

(APPLICABLE TO SHEETS C-3.1 - C-3.3)

LIMITS OF DISTURBANCE

SILT FENCE — SF

SAFETY FENCE — SAF

TREE PROTECTION — TP

TEMPORARY SEEDING — TS

DUST CONTROL — DC

DEMOLITION NOTES

1. REFER TO SEQUENCE OF CONSTRUCTION ON SHEET C-2.0 DURING ALL STAGES OF CONSTRUCTION.
2. CONTRACTOR TO ESTABLISH PERIMETER EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO DEMOLITION. REF. EROSION AND SEDIMENT CONTROL PLAN.
3. UTILITIES SERVING ADJACENT PROPERTIES ARE TO STAY INTACT AND OPERATIONAL DURING BUSINESS HOURS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING WITH MATCHING MATERIALS, ANY PAVEMENT, CONCRETE, CURBS, ETC. THAT MUST BE CUT OR THAT ARE DAMAGED DURING CONSTRUCTION.
5. EXISTING SIDEWALKS, DRIVEWAYS, AND CURBS THAT ARE REMOVED TO ACCOMMODATE PROPOSED IMPROVEMENTS SHALL BE REPLACED TO THE NEAREST JOINT.
6. REFER TO ADDITIONAL DEMOLITION NOTES ON SHEET C-0.1.

EROSION CONTROL NOTES

1. PERIMETER EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO COMMENCING MASS DEMOLITION OPERATIONS.
2. TEMPORARY SEEDING SHALL BE APPLIED WITHIN SEVEN (7) DAYS TO ALL AREAS THAT ARE TO REMAIN DORMANT OR DENUDED FOR A PERIOD OF MORE THAN 14 DAYS.
3. SOIL STOCKPILES SHALL NOT EXCEED 15-FEET IN HEIGHT AND SIDE SLOPES ARE NOT TO EXCEED 3:1 WITH A MAXIMUM BASE OF 10,000 SQUARE FEET. ALL STOCKPILES EXCEEDING 15-FEET IN HEIGHT, OR OVER 10,000 SQUARE FEET IN BASE AREA WILL REQUIRE SPECIALLY DESIGNED EROSION AND SEDIMENT CONTROLS APPROVED BY THE COUNTY.
4. DRAINAGE AREA TO SILT FENCE SHOULD BE NO MORE THAN ¼ ACRE PER 100' SILT FENCE AND TOTAL CONTRIBUTING AREA SHOULD BE NO LARGER THAN 1 ACRE. THE MAXIMUM SLOPE LENGTH DRAINING TO THE FILT FENCE MUST BE LESS THAN 100' AND MAXIMUM GRADIENT IS 2:1.
5. TREES NEAR LIMITS OF DISTURBANCE SHALL BE PROTECTED AT ALL TIMES DURING CONSTRUCTION USING TREE PROTECTION. THE ROOF DRAIN PIPE AT THE EAST SHALL BE INSTALLED IN SUCH A MANNER THAT THE EXISTING TREE ROOTS ARE NOT DISTURBED. PLEASE REFER TO CONSTRUCTION OPERATIONS RELATIVE TO PROTECTED TREES DETAIL SHEET C2.2. REFER TO THE ROOT PRUNING DETAIL PROVIDED ON SHEET C2.2 AS NECESSARY.
6. **REFER TO SEQUENCE OF CONSTRUCTION ON SHEET C-2.0**

COMMONWEALTH OF VIRGINIA
DANIEL R. RUBY
Lic. No. 043841
2/12/2025
PROFESSIONAL ENGINEER

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TEL 804.200.6500 FAX 804.560.1016 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

REVISION DESCRIPTION	DATE

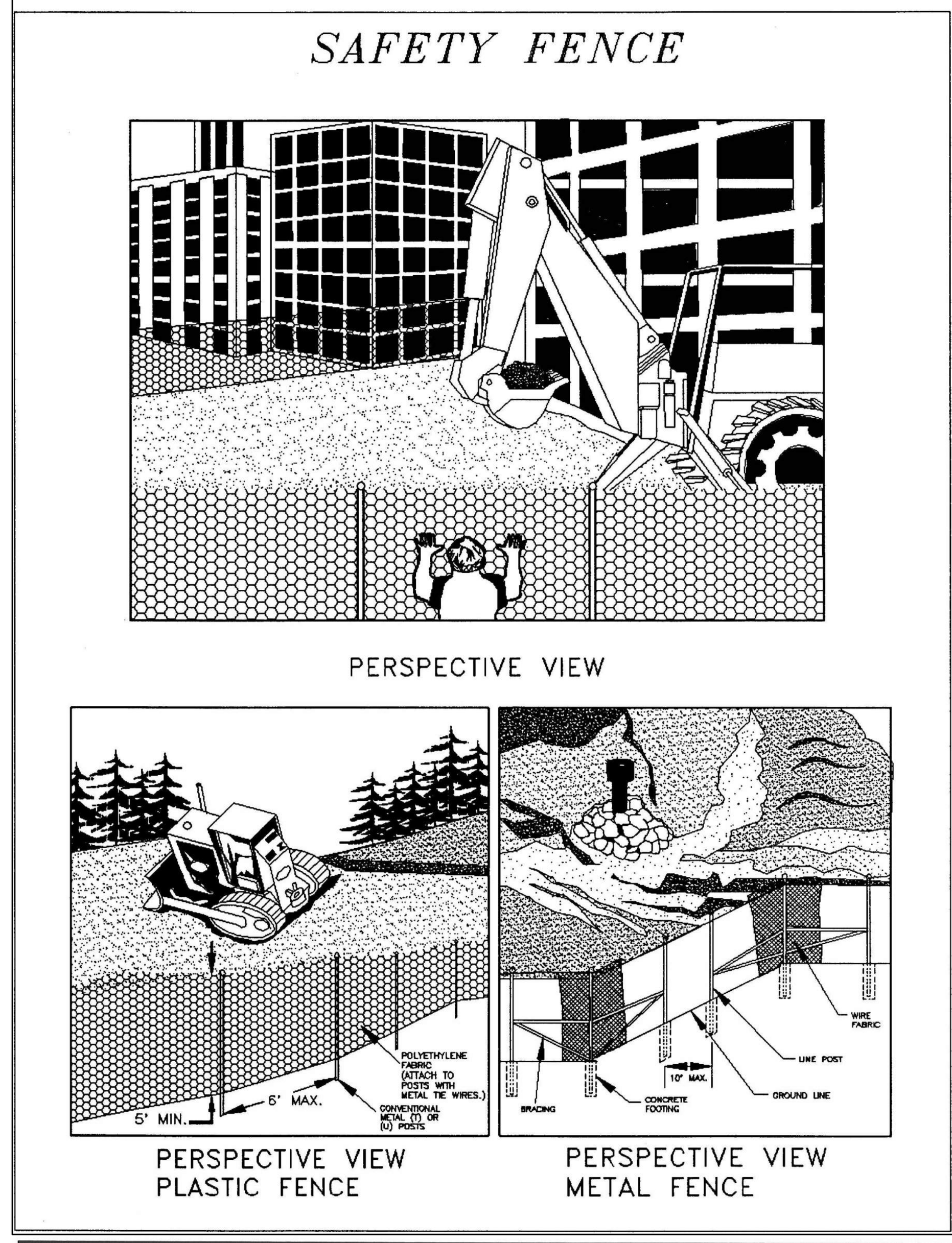
DATE 02/12/2025
DRAWN BY A. BENNETT
DESIGNED BY A. BENNETT
CHECKED BY D. RUBY
SCALE 1" = 10'

TIMMONS GROUP

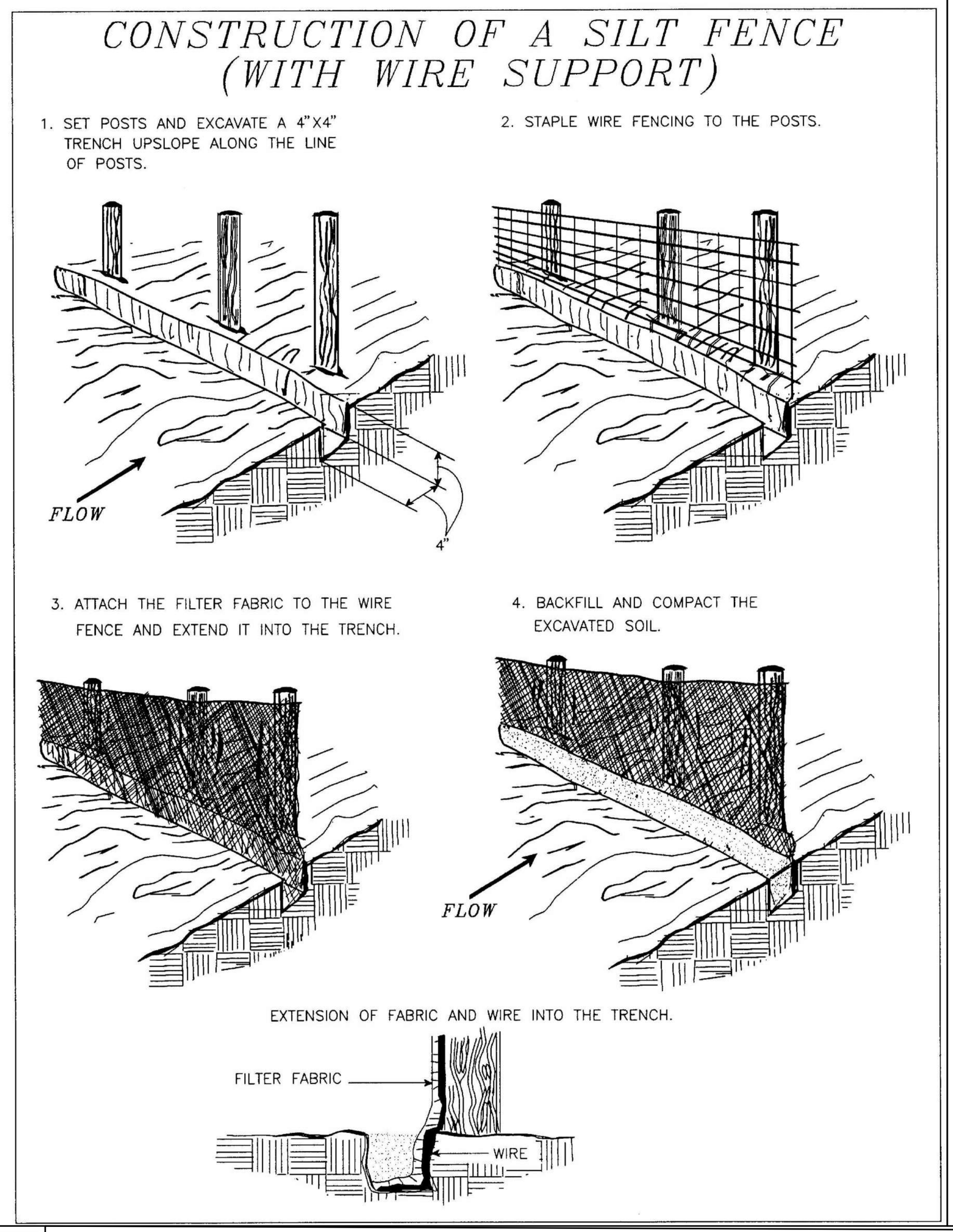
YATES ELEMENTARY SCHOOL BUILDING ADDITION
CITY OF NEWPORT NEWS, VIRGINIA
DEMO AND E&S

JOB NO. 64092
SHEET NO. C2.1

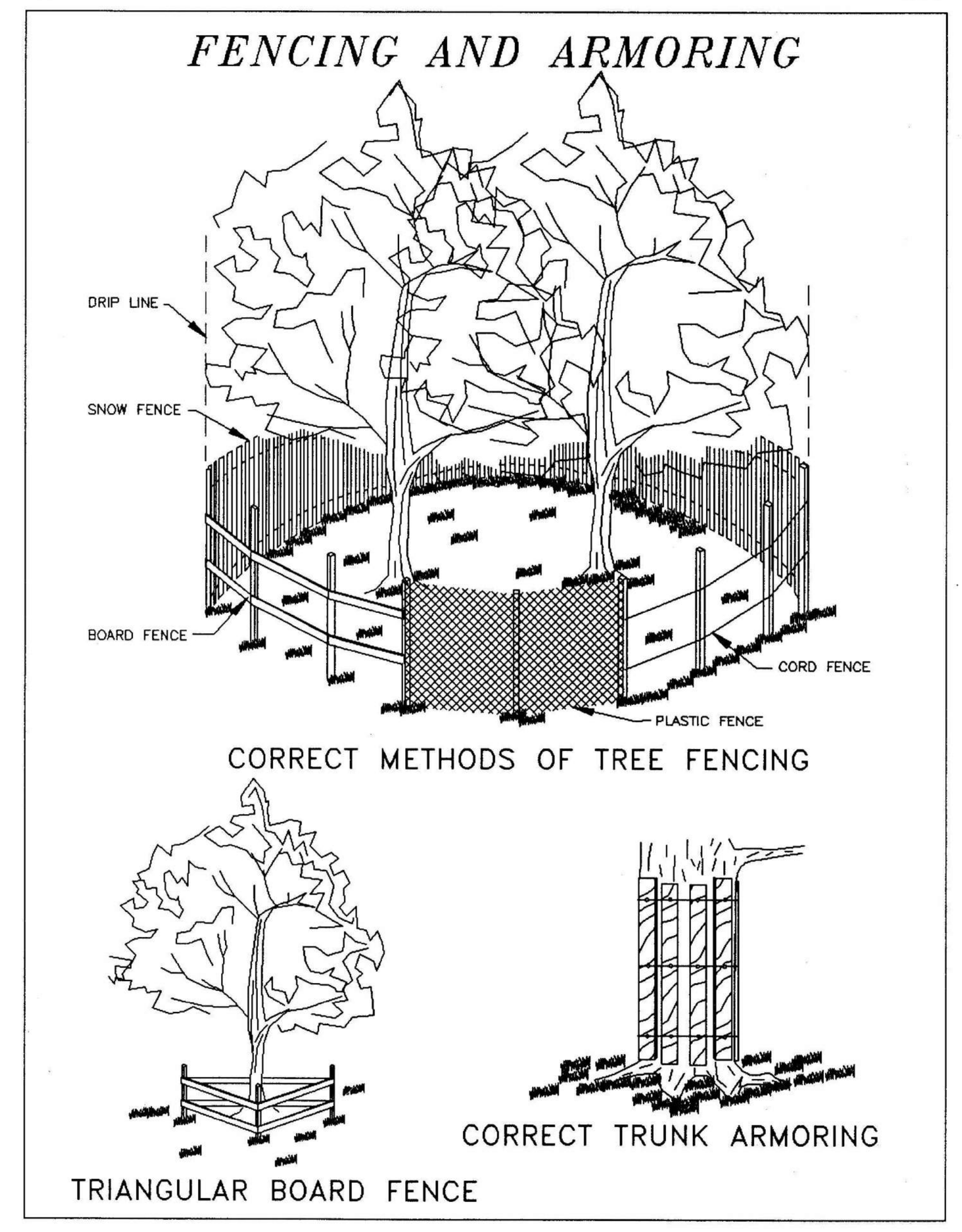
SAFETY FENCE



CONSTRUCTION OF A SILT FENCE (WITH WIRE SUPPORT)



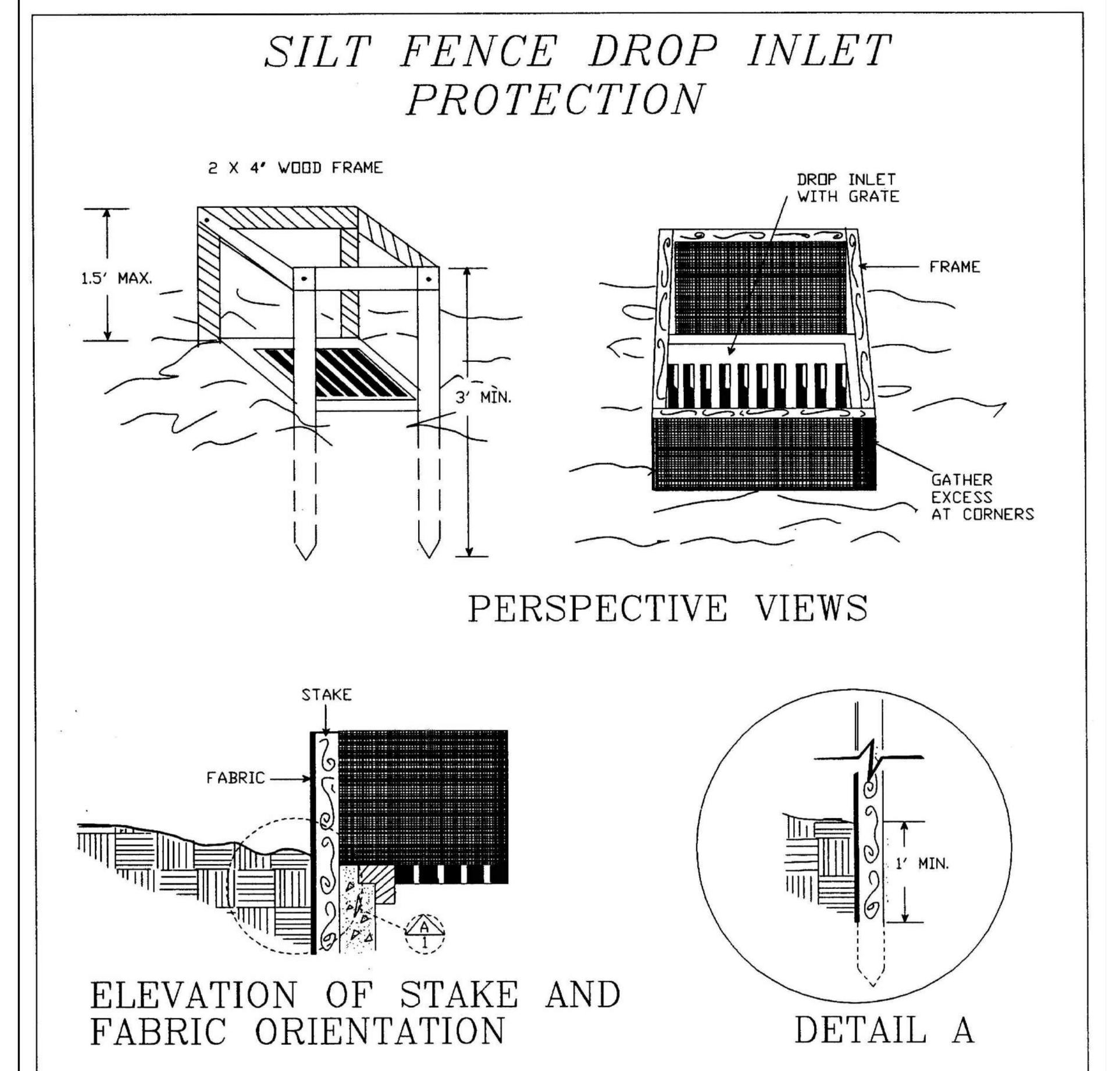
FENCING AND ARMORING



Source: Va. DSWC

Plate 3.38-2

SILT FENCE DROP INLET PROTECTION



SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) WHERE THE INLET SHEET OR OVERLAND FLOWS (NOT EXCEEDING 1 C.F.S.) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

TABLE 3.32-E
(Revised June 2003)
PERMANENT SEEDING SPECIFICATIONS FOR COASTAL PLAIN AREA

SEED[1]		
LAND USE	**SPECIES**	**APPLICATION RATES**
Minimum Care Lawn (Commercial or Residential)	Tall Fescue[1] or Bermudagrass[1]	175 - 200 lbs. 75 lbs.
High-Maintenance Lawn	Tall Fescue[1] or Bermudagrass[1] (seed) or Bermudagrass[1] (by other vegetative establishment method, see Std. & Spec. 3.34)	200-250 lbs. 40 lbs. (unhulled) 30 lbs. (hulled)
General Slope (3:1 or less)	Tall Fescue[1] Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop[2]	128 lbs. 2 lbs. 20 lbs. TOTAL: 150 lbs.
Low-Maintenance Slope (Steeper than 3:1)	Tall Fescue[1] Bermudagrass[1] Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop[2] Sericea Lespedeza[3]	93-108 lbs. 0-15 lbs. 2 lbs. 20 lbs. 20 lbs. TOTAL: 150 lbs.

1 - When selecting varieties of turfgrass, use the Virginia Crop Improvement Association (VCIA) recommended turfgrass variety list. Quality seed will bear a label indicating that they are approved by VCIA. A current turfgrass variety list is available at the local County Extension office or through VCIA at 804-746-4884 or at http://sudan.cses.vt.edu/html/Turf/turf/publications/publications2.html

2 - Use seasonal nurse crop in accordance with seeding dates as stated below:

February, March - April	Annual Rye
May 1st - August	Foxtail Millet
September, October - November 15th	Annual Rye
November 16th - January	Winter Rye

3 - May through October, use hulled seed. All other seeding periods, use unhulled seed. If Weeping Lovegrass is used, include in any slope or low maintenance mixture during warmer seeding periods, increase to 30 -40 lbs/acre.

FERTILIZER & LIME

- Apply 10-20-10 **fertilizer** at a rate of **500** lbs. / acre (or 12 lbs. / 1,000 sq. ft.)
- Apply **Pulverized Agricultural Limestone** at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)

NOTE:
- A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
- Incorporate the lime and fertilizer into the top 4 – 6 inches of the soil by disking or by other means.
- When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin # 4, 2003 Nutrient Management for Development Sites at http://www.dcr.state.va.us/sw/e&s.htm#pubs

TABLE 3.35-A

ORGANIC MULCH MATERIALS AND APPLICATION RATES

MULCHES:	RATES: Per Acre	RATES: Per 1000 sq. ft.	NOTES:
Straw or Hay	1½ - 2 tons (Minimum 2 tons for winter cover)	70 - 90 lbs.	Free from weeds and coarse matter. Must be anchored. Spread with mulch blower or by hand.
Fiber Mulch	Minimum 1500 lbs.	35 lbs.	Do not use as mulch for winter cover or during hot, dry periods.* Apply as slurry.
Corn Stalks	4 - 6 tons	185 - 275 lbs.	Cut or shredded in 4-6" lengths. Air-dried. Do not use in fine turf areas. Apply with mulch blower or by hand.
Wood Chips	4 - 6 tons	185 - 275 lbs.	Free of coarse matter. Air-dried. Treat with 12 lbs nitrogen per ton. Do not use in fine turf areas. Apply with mulch blower, chip handler, or by hand.
Bark Chips or Shredded Bark	50 - 70 cu. yds.	1-2 cu. yds.	Free of coarse matter. Air-dried. Do not use in fine turf areas. Apply with mulch blower, chip handler, or by hand.

* When fiber mulch is the only available mulch during periods when straw should be used, apply at a minimum rate of 2000 lbs./ac. or 45 lbs./1000 sq. ft.

Source: Va. DSWC

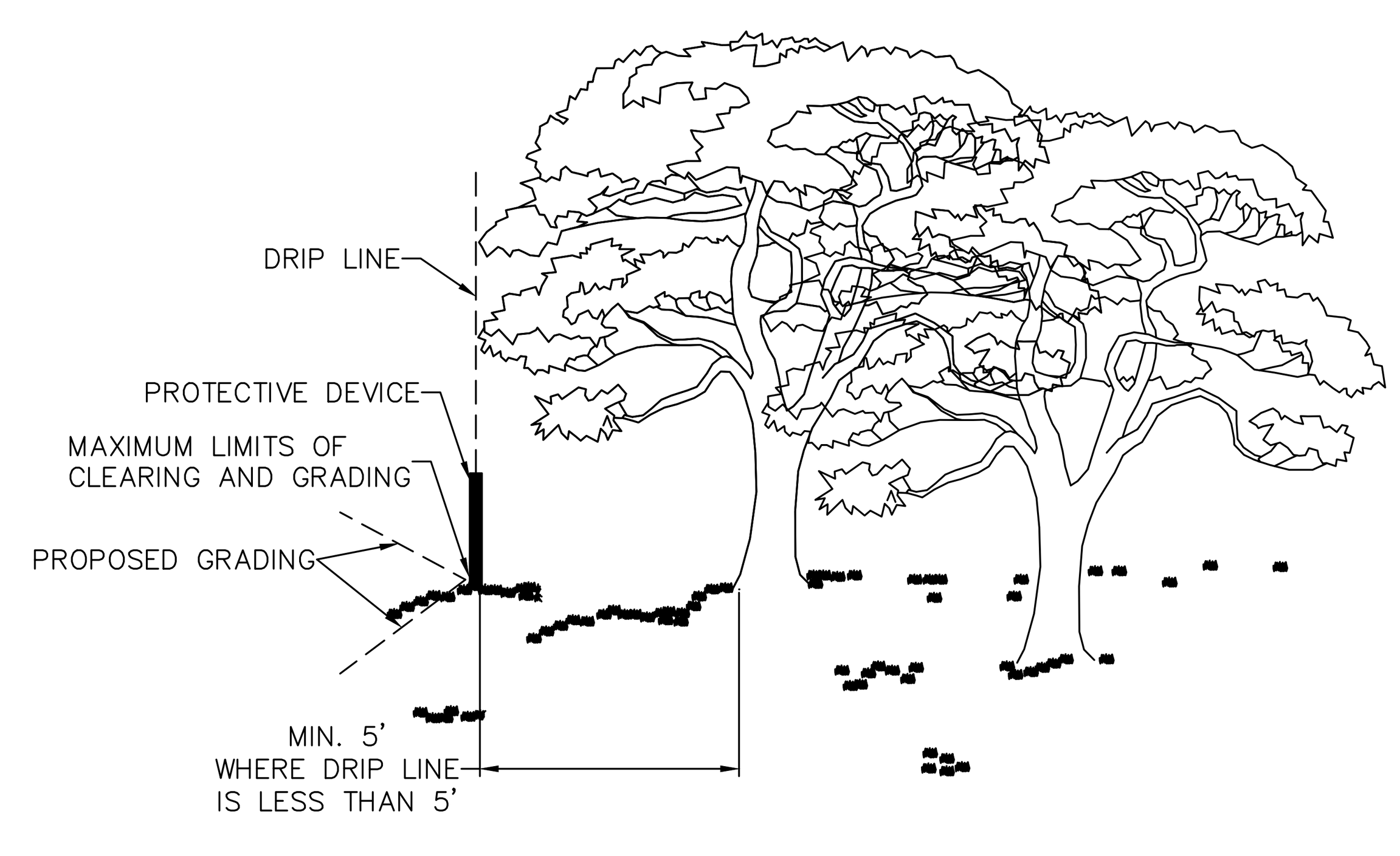
TABLE 3.31-B
(Revised June 2003)
TEMPORARY SEEDING SPECIFICATIONS
QUICK REFERENCE FOR ALL REGIONS

SEED		
APPLICATION DATES	**SPECIES**	**APPLICATION RATES**
Sept. 1 - Feb. 15	50/50 Mix of Annual Ryegrass (lolium multi-florum) & Cereal (Winter) Rye (Secale cereale)	50 -100 (lbs/acre)
Feb. 16 - Apr. 30	Annual Ryegrass (lolium multi-florum)	60 - 100 (lbs/acre)
May 1 - Aug. 31	German Millet	50 (lbs/acre)

FERTILIZER & LIME

- Apply 10-10-10 **fertilizer** at a rate of 450 lbs. / acre (or 10 lbs. / 1,000 sq. ft.)
- Apply **Pulverized Agricultural Limestone** at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)

NOTE:
1 - A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
2 - Incorporate the lime and fertilizer into the top 4 – 6 inches of the soil by disking or by other means.
3 - When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin # 4, 2003 Nutrient Management for Development Sites at http://www.dcr.state.va.us/sw/e&s.htm#pubs



CONSTRUCTION OPERATIONS RELATIVE TO THE LOCATION OF PROTECTED TREES
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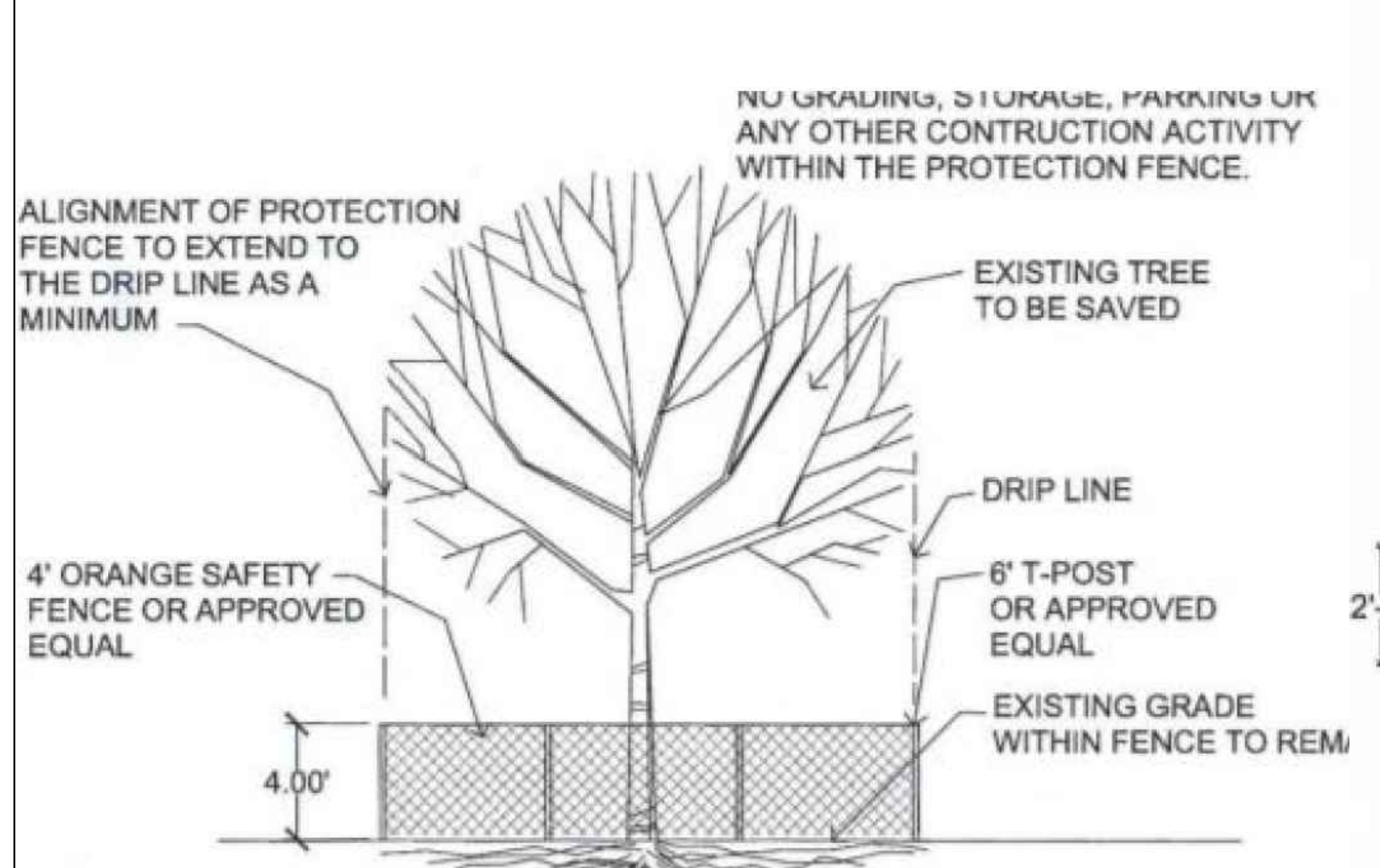
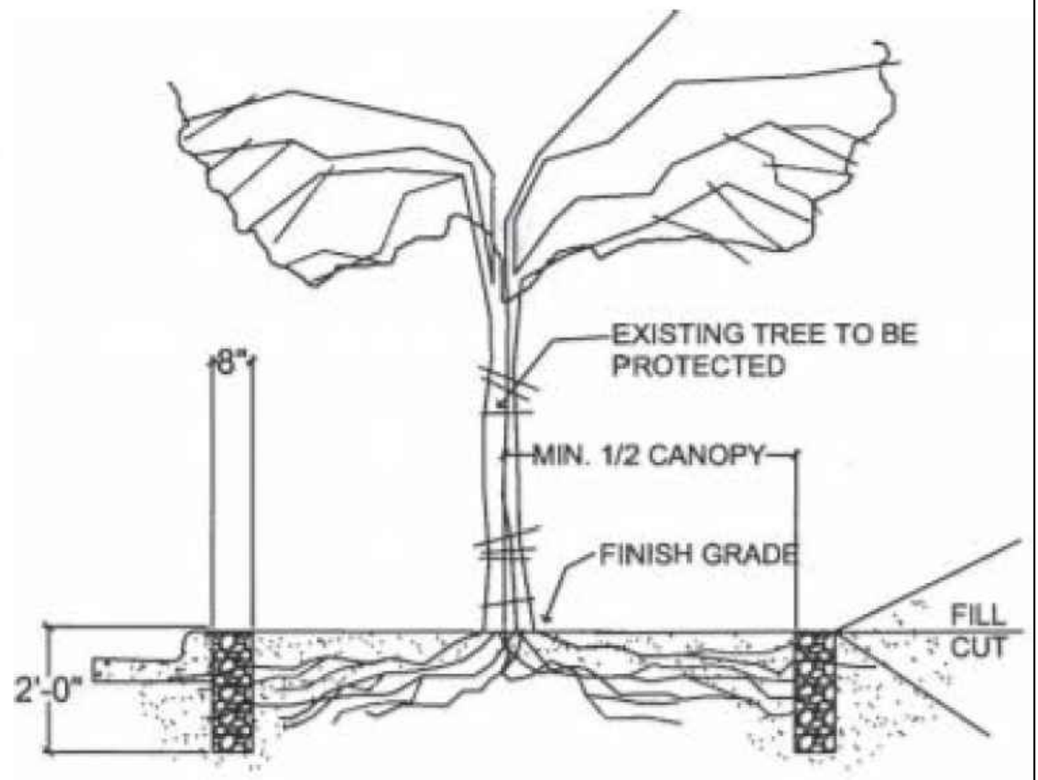


TREE PROTECTION DETAIL



ROOT PRUNING DETAIL

*HAND DIG TRENCH (NO MECHANICAL TRENCHING)
*CUT ROOTS WITH A SHARP PRUNING TOOL
*BACKFILL WITH EXISTING SOIL
*PERFORM ROOT PRUNING A MINIMUM OF 2 WEEKS PRIOR TO CONTRUCTION

CITY OF NEWPORT NEWS EROSION AND SEDIMENT CONTROL GENERAL NOTES

COMMONWEALTH OF VIRGINIA
DANIEL E. RUBY
Lic. No. 043841
2/12/2025
PROFESSIONAL ENGINEER

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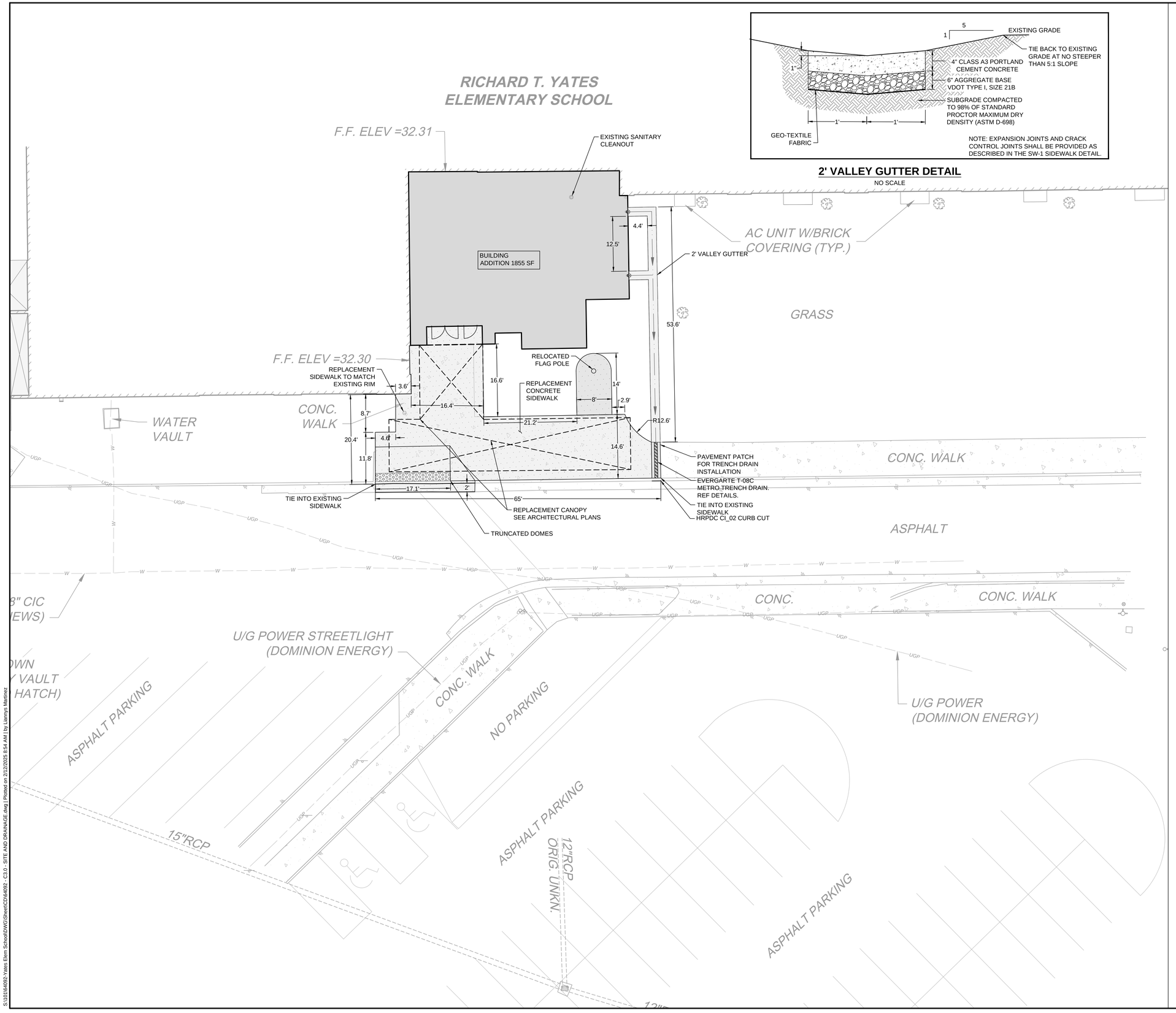
DATE	REVISION DESCRIPTION

TIMMONS GROUP

DATE	02/12/2025
DRAWN BY	N. AMIN
DESIGNED BY	N. AMIN
CHECKED BY	D. RUBY
SCALE	-

YATES ELEMENTARY SCHOOL BUILDING ADDITION
CITY OF NEWPORT NEWS, VIRGINIA
E&S DETAILS

JOB NO. 64092
SHEET NO. C2.2



2' VALLEY GUTTER DETAIL

NO SCALE

SITE LAYOUT LEGEND

VDOT CG-6 CURB AND GUTTER

GROUND COVER LEGEND

SIDEWALK CONCRETE PAVEMENT

NEW BUILDING

PAVEMENT PATCH

SITE PLAN GENERAL NOTES

1. ALL PROPOSED PAVING SURFACES SHALL MEET ADJACENT PAVING SURFACES IN A SMOOTH CONTINUOUS MANNER, FLUSH ALONG ENTIRE COMMON EDGE.
2. EXPANSION JOINTS IN CONCRETE SHALL BE PROVIDED AROUND ALL JUNCTIONS, STRUCTURES, OR FIXED OBSTRUCTIONS.

DRAINAGE SYSTEM LEGEND

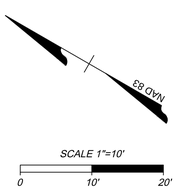
DUCTILE IRON STORM SEWER PIPE

ROOF DRAIN CONNECTION

TRENCH DRAIN

DRAINAGE SYSTEM NOTES

1. ELEVATION SHOWN HEREON ARE IN FEET AND ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
2. ALL STORM SEWER PIPES SHALL BE DUCTILE IRON PIPE.
3. PIPE INVERT AT TRENCH DRAIN CONNECTION IS 6" FROM THE EXISTING SIDEWALK ELEVATION.
4. REFER TO SITE DETAILS FOR TRENCH DRAIN AND CURB OPENING DETAILS AND DIMENSIONS.



COMMONWEALTH OF VIRGINIA
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REVISION DESCRIPTION	DATE

DATE: 02/12/2025
DRAWN BY: A. BENNETT
DESIGNED BY: A. BENNETT
CHECKED BY: D. RUBY
SCALE: 1" = 10'

TIMMONS GROUP

YATES ELEMENTARY SCHOOL BUILDING ADDITION
CITY OF NEWPORT NEWS, VIRGINIA
SITE AND DRAINAGE PLAN

JOB NO. 64092
SHEET NO. C3.0

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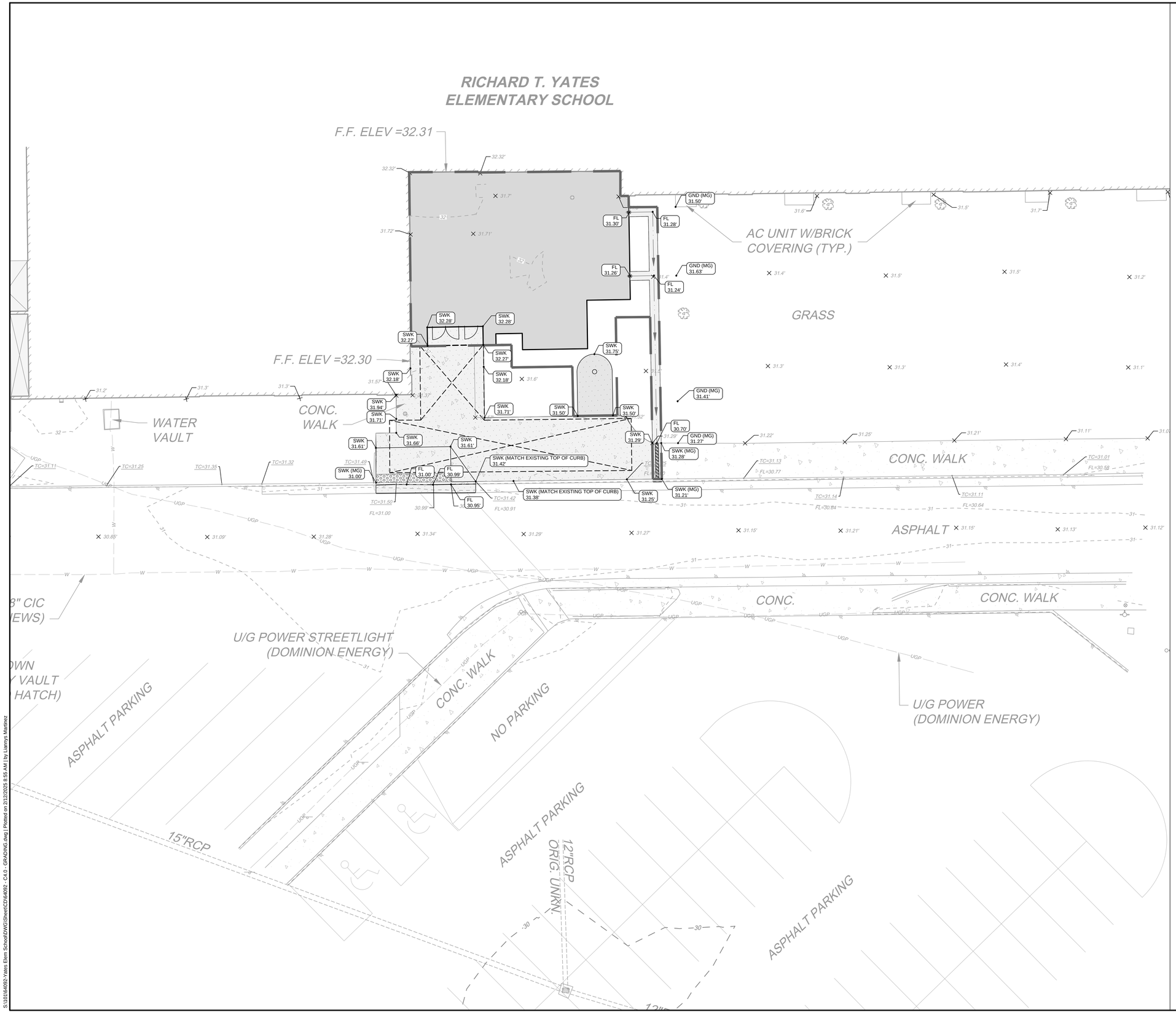

GRADING LEGEND

EXISTING CONTOUR — — 15 — —

PROPOSED CONTOUR 15

LIMITS OF DISTURBANCE

SPOT ELEVATION TC 18.63

PERMANENT SEEDING PS

GRADING PLAN ABBREVIATIONS

SWK SIDEWALK
GND FINISHED GROUND
FFE FINISH FLOOR ELEVATION
MG MATCH EXISTING GRADE

GRADING PLAN NOTES

1. ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE AS SHOWN ON THE PLANS.
2. FINISHED GRADES SHALL SLOPE UNIFORMLY BETWEEN SPOT ELEVATIONS SHOWN.
3. CONTRACTOR SHALL PHASE CONSTRUCTION SUCH THAT GRADING CAN COMMENCE AND END IN THE SHORTEST TIME POSSIBLE.
4. ALL UNPAVED AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE GRADED TO DRAIN, TOPSOILED, SEEDED, MULCHED, AND FERTILIZED.
5. LIMITS OF GRADING IS AT LIMITS OF DISTURBANCE.
6. THE CONTRACTOR SHALL REPAIR WITH MATCHING MATERIALS AT HIS OWN EXPENSE ANY SIDEWALKS, CURBS, PAVEMENT, ETC. DAMAGED OUTSIDE THE LIMITS OF DISTURBANCE.

COMMONWEALTH OF VIRGINIA
DANIEL R. RUBY
Lic. No. 043841
2/12/2025
PROFESSIONAL ENGINEER

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REVISION DESCRIPTION	DATE

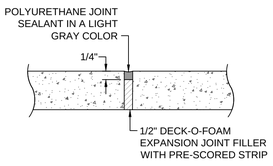
DATE 02/12/2025
DRAWN BY A. BENNETT
DESIGNED BY A. BENNETT
CHECKED BY D. RUBY
SCALE 1" = 10'

TIMMONS GROUP

YATES ELEMENTARY SCHOOL BUILDING ADDITION
CITY OF NEWPORT NEWS, VIRGINIA
GRADING PLAN

JOB NO. 64092
SHEET NO. C4.0

S:\10\16\64092 Yates Elem School\CIVIL\Sheet\C064092 - C4.0 - GRADING.dwg | Plotted on 2/12/2025 8:55 AM | by Lianrys Martinez



EXPANSION JOINT DETAIL

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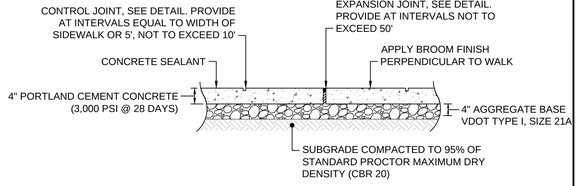

CONCRETE SIDEWALK DETAIL

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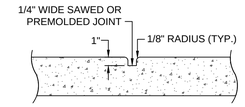
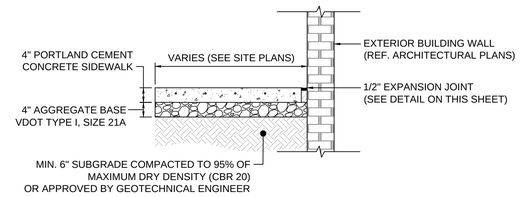


CONCRETE SIDEWALKS

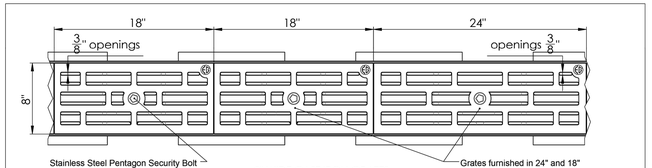
CONTROL JOINT DETAILS

NO SCALE

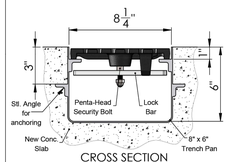


SIDEWALK CONNECTION AT BUILDING

NO SCALE



8" WIDE CAST IRON GRATES-
METRO STYLE W/
PENTA-LOCK CHANNEL FRAME
SCALE 1 : 7



CROSS SECTION
SCALE 1:5

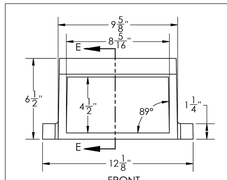
PERSPECTIVE OF ASSEMBLY
N.T.S.

Product No. : T-08C Metro

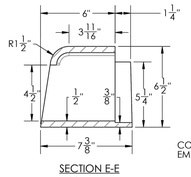
Grate Material: ASTM-A48 Class 30B Cast Iron
Frame Material: Plain Steel
Load Rating: Non-Traffic (Pedestrain)
Made in USA

Grate + Frame Weight: 21.73 lbs./LF.
8"x18" Open Area : 25.92" sq.in.
8"x24"Open Area 8"x24" : 37.44" sq.in.

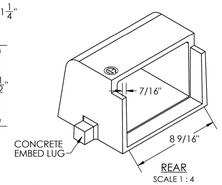
EVERGRATE
Durable. Dependable. Design.
A DIVISION OF J.R. HOE



FRONT
SCALE 1 : 4

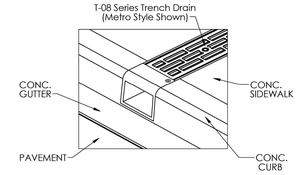


SECTION E-E
SCALE 1 : 4



REAR
SCALE 1 : 4

PERSPECTIVE OF C-846T
N.T.S.



INSTALLATION DETAIL
SCALE 1 : 12

Product No. : C-846T

Material: ASTM-A48 Class 30B Gray Iron
Weight: 28.5 lbs. ea.
Made in USA

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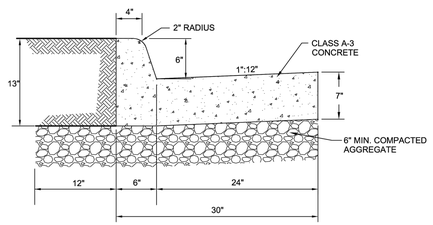
HAMPTON ROADS PDC PLANNING DISTRICT COMMISSION



NOTES:

1. CRACK CONTROL JOINTS TO BE PROVIDED AT 10 FT. INTERVALS BY SAWING, SCORING, "LEAVE-IN" INSERTS, OR CUTTER PLATES TO 1-1/2 INCH DEPTH.
2. EXPANSION JOINTS TO BE INSTALLED PER SPECIFICATIONS SECTION 502.
3. AS SOON AS CONCRETE WILL NOT SLUMP, FACE FORMS ARE TO BE REMOVED, IRREGULARITIES REMOVED, A LIGHT BROOM FINISH GIVEN, AND LIQUID MEMBRANE SEAL OR OTHER APPROVED CURING MEDIUM APPLIED.
4. THE CONTRACTOR SHALL PREVENT THE TEMPERATURE AT THE SURFACE OF THE CONCRETE FROM FALLING BELOW 40°F DURING THE FIRST 72 HOURS IMMEDIATELY FOLLOWING CONCRETE PLACEMENT. PROTECTIVE MATERIAL SHALL BE LEFT IN PLACE FOR AN ADDITIONAL 48 HOURS IF FREEZING AIR TEMPERATURES ARE EXPECTED TO CONTINUE.

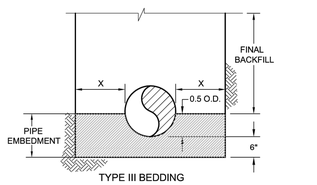
30" CURB & GUTTER

NOT TO SCALE

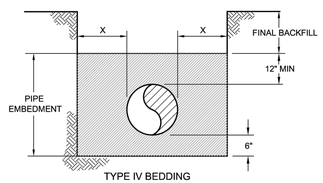
REFERENCE	CATEGORY	DATE	SHEET No.	DETAIL No.
200,502	CONCRETE ITEMS	6/16	1 OF 1	CI_02

PIPE SIZE	DIMENSION "X" (MIN.)
0"-24"	8"
27"-36"	12"
42"-72"	15"

* MODIFIED PER THE STANDARD DETAIL MODIFICATIONS IN THE NEWPORT NEWS SPECIAL PROVISIONS.



TYPE III BEDDING



TYPE IV BEDDING

PIPE BEDDING DETAILS

NOT TO SCALE

REFERENCE	CATEGORY	DATE	SHEET No.	DETAIL No.
200,303	EARTHWORK	6/16	1 OF 2	EW_01

NOTES:

1. THESE BEDDING DETAILS ARE NOT INTENDED FOR THERMOPLASTIC STORM DRAINAGE PIPE
2. BEDDING SHALL BE COMPACTED GRANULATED MATERIAL #57 STONE CHOKED WITH SAND OR 21A TO CBR 20 MINIMUM.
3. TRENCH BOTTOM TO BE FREE OF WATER BEFORE PLACING BEDDING.
4. SHAPE RECESSES FOR BELL OF PIPE BY HAND.
5. BACKFILL ABOVE BEDDING WITH SPECIFIED BACKFILL MATERIAL. SEE SPECIFICATIONS SECTION 303.
6. REFER TO CONTRACT DOCUMENTS FOR TYPE OF BEDDING.
7. MINIMUM TRENCH WIDTH SHALL CONFORM TO PIPE MANUFACTURER'S RECOMMENDATIONS IF MORE STRINGENT.
8. TRENCH BOX OR OTHER SHORING METHODS SHALL NOT DISTURB PIPE EMBEDMENT AND BEDDING MATERIAL AFTER COMPACTION.
9. BEDDING SHALL BE INCLUDED IN THE PRICE OF THE PIPE UNLESS OTHERWISE INDICATED.
10. CRUSHED CONCRETE IS ACCEPTABLE WHEN APPROVED BY THE CITY.

* MODIFIED PER THE STANDARD DETAIL MODIFICATIONS IN THE NEWPORT NEWS SPECIAL PROVISIONS.

REFERENCE	CATEGORY	DATE	SHEET No.	DETAIL No.
200,303	EARTHWORK	6/16	2 OF 2	EW_01

COMMONWEALTH OF VIRGINIA
DANIEL R. RUBY
Lic. No. 043841
2/12/2025
PROFESSIONAL ENGINEER

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YOUR VISION ACHIEVED THROUGH OURS.

REVISION DESCRIPTION	DATE

DATE: 02/12/2025
DRAWN BY: L. MARTINEZ
DESIGNED BY: L. MARTINEZ
CHECKED BY: D. RUBY
SCALE: ----

TIMMONS GROUP

YATES ELEMENTARY SCHOOL BUILDING ADDITION
CITY OF NEWPORT NEWS, VIRGINIA
CONSTRUCTION DETAILS

JOB NO. 64092
SHEET NO. C5.0

S:\JO\64092-Yates Elem School\DWG\Sheet\C5\64092 - C5.0 SITE DETAILS.dwg | Plotted on 2/12/2025 8:55 AM | by Lainnys Martinez

STRUCTURAL ABBREVIATIONS

A.B.	ANCHOR BOLT
A.C.I.	AMERICAN CONCRETE INSTITUTE
ADJ.	ADJACENT
A.I.S.C.	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
A.S.D.	ALLOWABLE STRESS DESIGN
A.S.T.M.	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ARCH.	ARCHITECT OR ARCHITECTURAL
B.D.	BAR DIAMETER(S)
B.E.J.	BUILDING EXPANSION JOINT
BLDG.	BUILDING
B.O.S.	BOTTOM OF STEEL
BM.	BEAM
BRCG.	BRACING
BRDG.	BRIDGING
BRG.	BEARING
BTWN.	BETWEEN
CANT.	CANTILEVER
C.G.	CENTER OF GRAVITY
C.I.P.	CAST IN PLACE
CL.	CLEAR
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONT.	CONTINUOUS
COORD.	COORDINATE
D.	DEPTH OR DEEP
DBL.	DOUBLE
DET.	DETAIL
DIA.	DIAMETER
DIAG.	DIAGONAL
DWG.	DRAWING
DWL.	DOWEL
EA.	EACH
E.F.	EACH FACE
E.W.	EACH WAY
EL.	ELEVATION
ELEV.	ELEVATION
EMB.	EMBEDMENT OR EMBED
ENG.	ENGINEER
EQ.	EQUAL
EXIST.	EXISTING
EXP.	EXPANSION
FDN.	FOUNDATION
FIN.	FINISHED OR FINISH
FLR.	FLOOR
F.O.	FACE OF
FTG.	FOOTING
GA.	GAGE
GALV.	GALVANIZED
G.C.	GENERAL CONTRACTOR
H.C.	HOLLOW CORE
H.D.G.	HOT DIPPED GALVANIZED
HK.	HOOK
HORIZ.	HORIZONTAL
H.S.	HIGH STRENGTH
J.B.E.	JOIST BEARING ELEVATION
JT.	JOINT
K	KIPS
K.S.F.	KIPS PER SQUARE FOOT
K.S.I.	KIPS PER SQUARE INCH
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
L.R.F.D.	LOAD & RESISTANCE FACTOR DESIGN
MANUF.	MANUFACTURER OR MANUFACTURER'S
MATL.	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MIN.	MINIMUM
M.O.S.	MIDDLE OF SLAB
M.O.W.	MIDDLE OF WALL
MTL.	METAL
N.T.S.	NOT TO SCALE
O/C	ON CENTER
OPP.	OPPOSITE
O.H.	OPPOSITE HAND
P.A.F.	POWDER ACTUATED FASTENER
P.C.	PRECAST
P.S.	PRESTRESSED
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
Pc.	PIECE
PROJ.	PROJECTION
P.T.	PRESSURE TREATED
R.	RADIUS
REF.	REFERENCE
REINF.	REINFORCING OR REINFORCED
REQ'D.	REQUIRED
REV.	REVISION
S.O.G.	SLAB ON GRADE
S.F.	STEPPED FOOTING
SCHED.	SCHEDULE
SECT.	SECTION
SHT.	SHEET
SIM.	SIMILAR
SL.	SLOPE
SPA.	SPACE
S.S.	STAINLESS STEEL
STD.	STANDARD
STIFF.	STIFFENER
STIR.	STIRRUPS
STL.	STEEL
STRUCT.	STRUCTURAL
T.O.S.	TOP OF STEEL
TEMP.	TEMPERATURE
TYP.	TYPICAL
T.S.	THICKENED SLAB
U.O.N.	UNLESS OTHERWISE NOTED
O.W.T.	OPEN WEB TRUSS
VERT.	VERTICAL
W.	WIDTH OR WIDE
w/	WITH
W.P.	WORKING POINT
W.W.F.	WELDED WIRE FABRIC
℄	CENTERLINE
ø	DIAMETER
°	DEGREES
±	PLUS/MINUS
ℙ	PLATE

STRUCTURAL SYMBOL LEGEND

	BEAM SPLICE	CBXXxXX	CONCRETE BEAM MARK
	WELD	Ⓐ	PLAN NOTE
	SECTION		FOOTING ELEVATION
	PLAN DETAIL	Ⓧ	COLUMN GRID MARK
	ELEVATION	L-X	MASONRY LINTEL MARK
	SPOT ELEVATION	H-X	HEADER MARK
	SHEARWALL EXTENTS		STRUCTURAL COLUMN
SW-X (A)	SHEARWALL MARK (ABOVE)	WXxXX	STEEL BEAM MARK
SW-X (B)	SHEARWALL MARK (BELOW)	■ BP	BEARING PLATE
■ HD (A)	SHEARWALL HOLDOWN (ABOVE)		MOMENT CONNECTION
■ HD (B)	SHEARWALL HOLDOWN (BELOW)	XXk	BEAM REACTION
CFX.X	COLUMN FOOTING MARK		SLAB STEP LOCATION
WFX.X	WALL FOOTING MARK		SLAB SLOPE LOCATION
GB-X	GRADE BEAM MARK		INDICATOR PILE
P-X	PILE CAP MARK		REVISION MARK

REINFORCED MASONRY NOTES

1. ALL MASONRY AND GROUTING PROCEDURES SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE BUILDING CODE FOR MASONRY STRUCTURES, A.C.I. 530.

2. ALL BLOCK MASONRY WALLS SHALL BE LAID WITH TYPE 'S' HIGH STRENGTH MORTAR (1800 PSI) BOUGHT PRE-MIXED BY THE BAG OR MIXED TO THE FOLLOWING PROPORTIONS:
   1 BAG MASONRY CEMENT
   1/2 BAG PORTLAND CEMENT
   4 1/2 CUBIC FEET OF SAND BY VOLUME

3. ALL HOLLOW CMU BLOCK MASONRY SHALL BE GRADE 'N' LOAD BEARING UNITS IN ACCORDANCE WITH ASTM C-90 SPECIFICATIONS (MINIMUM ULTIMATE NET CONCRETE STRENGTH = 2000 PSI).

4. ALL GROUT FOR VERTICAL REINFORCING AND BOND BEAMS SHALL BE 2,000 PSI FINE GROUT, 8" - 10" SLUMP.

5. ALL HORIZONTAL JOINT REINFORCING SHALL BE LADDER TYPE. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND SPACING.

6. THE CONTRACTOR SHALL SUBMIT HIS COLD WEATHER MASONRY PROCEDURES FOR APPROVAL IF THE AMBIENT TEMPERATURES ARE BELOW 40 DEGREES FAHRENHEIT.

7. ALL VERTICAL REINFORCING STEEL SHALL LAP 48 BAR DIAMETERS UNLESS OTHERWISE NOTED ON PLANS, SECTIONS OR DETAILS.

LOW LIFT GROUTING

8. ALL REINFORCED HOLLOW UNIT MASONRY SHALL BE BUILT TO PRESERVE THE UNOBSTRUCTED VERTICAL CONTINUITY OF THE CELLS TO BE FILLED. WALLS AND CROSS WEBS FORMING SUCH CELLS TO BE FILLED SHALL BE FULL-BEDDED IN MORTAR TO PREVENT LEAKAGE OF GROUT. ALL HEAD (OR END) JOINTS SHALL BE SOLIDLY FILLED WITH MORTAR FOR A DISTANCE IN FROM THE FACE OF THE WALL OR UNIT NOT LESS THAN THE THICKNESS OF THE LONGITUDINAL FACE SHELLS. BOND SHALL BE PROVIDED BY LAPPING UNITS IN SUCCESSIVE VERTICAL COURSES OR BY EQUIVALENT MECHANICAL ANCHORAGE.

9. VERTICAL CELLS TO BE FILLED SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR, UNOBSTRUCTED CONTINUOUS VERTICAL CELL MEASURING NOT LESS THAN 2 INCHES BY 3 INCHES. NO MORTAR PROJECTIONS INTO THE CELL MAY EXCEED 1/4".

10. ALL CELLS CONTAINING REINFORCEMENT SHALL BE FILLED SOLIDLY WITH GROUT. GROUT SHALL BE PLACED IN LIFTS OF 5 FEET MAXIMUM HEIGHT. ALL GROUT SHALL BE CONSOLIDATED APPROXIMATELY 5 TO 10 MINUTES AFTER POURING; BY VIBRATING AND BEFORE PLASTICITY IS LOST. WHEN THE GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE POUR OF GROUT NOT LESS THAN 1/2 INCH BELOW THE TOP OF THE UPPER-MOST UNIT GROUTED. HORIZONTAL STEEL SHALL BE FULLY EMBEDDED BY GROUT IN AN UNINTERRUPTED POUR.

FOUNDATION NOTES

1. ALL FOOTINGS, INCLUDING SLAB ON GRADE, SHALL BEAR ON UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL WITH AN ALLOWABLE BEARING CAPACITY OF 2,000 PSF. THE CONTRACTOR SHALL REFER TO THE SOILS REPORT PREPARED BY TERRACON DATED MAY 28, 2024. THE REPORT IS PROJECT NUMBER K4245013. ALL PROCEDURES AND RECOMMENDATIONS OUTLINED IN THE SOILS REPORT SHALL BE FOLLOWED. GEOTECHNICAL ENGINEER SHALL MONITOR ALL SITE PREPARATION ACTIVITIES.

2. ALL FOUNDATION CONCRETE SHALL OBTAIN A 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI.

3. ALL REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615, GRADE 60.

4. CONCRETE PROTECTION FOR REINFORCING AS WELL AS PLACING AND FABRICATION OF REINFORCING SHALL BE IN ACCORDANCE WITH THE "AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS" (ACI 318).

5. EARTH FORMED FOOTINGS SHALL CONFORM TO THE SHAPE, LINES AND DIMENSIONS AS SHOWN ON THE FOUNDATION PLAN. ALL WATER SHALL BE REMOVED PRIOR TO PLACING CONCRETE.

6. BEFORE PLACING CONCRETE ALL EMBEDDED ITEMS SHALL BE PROPERLY LOCATED, ACCURATELY POSITIONED AND MAINTAINED SECURELY IN PLACE.

7. ALL CONTINUOUS REINFORCING SHALL LAP 36 BAR DIAMETERS UNLESS OTHERWISE NOTED ON THE DRAWINGS.

GENERAL FRAMING NOTES

1. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS, SECTIONS AND DETAILS TO SET ALL STRUCTURAL WORK INCLUDING LOCATION OF ALL STUD BEARING WALLS, STRUCTURAL BEAMS, SUPPORT POSTS, ETC. WHERE DISCREPANCIES OCCUR BETWEEN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS, THE ARCHITECTURAL DRAWINGS SHALL GOVERN.

2. THE CONTRACTOR SHALL ENSURE THAT ALL STRUCTURAL BEAMS, SUPPORT POSTS, AND STUD BEARING WALLS HAVE ADEQUATE WOOD BLOCKING AS REQUIRED TO TRANSFER THE LOADS TO THE FOUNDATION WORK BELOW.

3. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SHORING OR BRACING AS REQUIRED TO HOLD THE STRUCTURAL WORK IN PROPER ALIGNMENT UNTIL ALL FRAMING AND/OR SHEATHING IS NAILED IN PLACE.

GENERAL NOTES

1. UNDER NO CIRCUMSTANCES SHALL THE CONTRACT DRAWINGS BE REPRODUCED AND USED AS SHOP DRAWINGS.

2. THE CONTRACTOR SHALL SUBMIT PAPER HARD-COPY SHOP DRAWINGS TO THE ARCHITECT IN SUITABLE QUANTITIES TO PERMIT ADEQUATE DISTRIBUTION FOR REVIEW.

3. THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

4. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES, ETC., TO SET THE STRUCTURAL WORK.

5. BACK CHARGES FOR CHANGE ORDERS, CORRECTIVE WORK OR REPLACED MATERIALS WILL NOT BE ACCEPTED UNLESS EXPRESSLY AUTHORIZED IN WRITING BY SINCLAIR PRATT CAMERON, P.C. BEFORE ANY SUCH COSTS ARE INCURRED.

6. THE GENERAL CONTRACTOR SHALL CALL A PRECONSTRUCTION MEETING WITH ALL NECESSARY PARTIES PRIOR TO CONSTRUCTION. THIS MEETING SHALL ADDRESS THE RESPONSIBILITIES AND THE SCHEDULING OF ALL PARTICIPANTS INVOLVED IN INSPECTION SERVICES; INCLUDING THE "SCHEDULE OF SPECIAL INSPECTIONS," IF REQUIRED. THE GOVERNING MUNICIPALITY SHOULD BE INVITED TO JOIN THIS MEETING TO ESTABLISH THEIR REQUIREMENTS.

7. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS, SECTIONS AND DETAILS TO SET ALL STRUCTURAL WORK INCLUDING LOCATION OF ALL STUD BEARING WALLS, STRUCTURAL BEAMS, SUPPORT POSTS, ETC. WHERE DISCREPANCIES OCCUR BETWEEN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS, BOTH THE ARCHITECT AND ENGINEER OF RECORD SHALL BE CONTACTED FOR DIRECTION.

8. THE CONTRACTOR SHALL ENSURE THAT ALL STRUCTURAL BEAMS, SUPPORT POSTS, AND STUD BEARING WALLS HAVE ADEQUATE WOOD BLOCKING AS REQUIRED TO TRANSFER THE LOADS TO THE FOUNDATION WORK BELOW.

9. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SHORING OR BRACING AS REQUIRED TO HOLD THE STRUCTURAL WORK IN PROPER ALIGNMENT UNTIL ALL FRAMING AND/OR SHEATHING IS NAILED IN PLACE.

DESIGN CRITERIA

1. THE STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE 2021 VIRGINIA CONSTRUCTION CODE.

2. DESIGN LOADS ARE AS FOLLOWS:

LIVE LOADS (PER IBC):	
ROOF LIVE LOAD	20 PSF
MEZZANINE LIVE LOAD	100 PSF
DEAD LOADS (PER IBC):	
ROOF DEAD LOAD	15 PSF
CONCRETE SLABS ON GRADE (PER ACI):	
4" THICK SLAB ON GRADE	100 PSF
SNOW LOADS (PER ASCE):	
GROUND SNOW LOAD (PG)	45 PSF
FLAT ROOF SNOW LOAD (Pf)	10.5 PSF
SNOW EXPOSURE FACTOR (Ce)	1.0
WINTER WIND PARAMETER	0.45
SNOW LOAD IMPORTANCE FACTOR (I)	1.1
ROOF THERMAL FACTOR (Ct)	1.0
WIND LOADS (PER ASCE):	
NORMAL DESIGN WIND SPEED (Vasd)	98 MPH
ULTIMATE DESIGN WIND SPEED (Vult)	127 MPH
WIND EXPOSURE	c
RISK CATEGORY	III
INTERNAL PRESSURE COEFFICIENT (GCpi)	±0.18
COMPONENTS & CLADDING: SEE TABLES	
SEISMIC DESIGN DATA (PER IBC):	
SEISMIC IMPORTANCE FACTOR (I)	1.25
SEISMIC DESIGN CATEGORY	A
SEISMIC RISK CATEGORY	III
SEISMIC SITE CLASS	D
MAPPED SPECTRAL RESPONSE ACCELERATION (SS)	0.099g
MAPPED SPECTRAL RESPONSE ACCELERATION (SI)	0.041g
SPECTRAL RESPONSE COEFFICIENT (SDS)	0.106g
SPECTRAL RESPONSE COEFFICIENT (SDI)	0.066g
SEISMIC RESPONSE COEFFICIENT (CS)	0.6 KIP
BASIC SEISMIC FORCE RESISTING SYSTEM: ORDINARY STEEL MOMENT FRAMES (ADDITIONAL ONLY)	
ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE DISTRIBUTION	
BUILDING DESIGNED TO BE FULLY ENCLOSED	

HUDSON + ASSOCIATES
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120 WEST QUEENS WAY SUITE 201 HAMPTON, VA.
(757) 722-1964 23669

SECURITY VESTIBULE & OFFICE ADDITION & ALTERATIONS FOR YATES ELEMENTARY SCHOOL

73 MAXWELL LANE
NEWPORT NEWS, VIRGINIA 23606

COMMONWEALTH OF VIRGINIA
25 FEBRUARY 2025
CHRISTOPHER D. STERNE
LIC. NO. 041...
PROFESSIONAL ENGINEER

FEBRUARY 25, 2025

GENERAL NOTES

JOB NUMBER 2312

SPC STRUCTURAL ENGINEERS
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LIGHT GAGE FRAMING NOTES

1. ALL LIGHT GAGE STEEL FRAMING WORK SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL OF STEEL CONSTRUCTION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION AND THE MANUAL FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS OF THE AMERICAN IRON AND STEEL INSTITUTE.

2. CONTRACTOR TO ENGAGE A QUALIFIED PROFESSIONAL ENGINEER TO DESIGN THE COLD-FORMED STEEL FRAMING PER THE LOADS AND DESIGN CODES SHOWN ON THE DRAWINGS, PREPARE SHOP DRAWINGS, AND OTHER STRUCTURAL DATA. COLD-FORMED STEEL MEMBER SIZES SHOWN ON THE DRAWINGS ARE FOR BIDDING PURPOSES ONLY. ACTUAL SIZE, SPACING, AND CONNECTION OF THE MEMBERS SHALL BE DEFINED BY THE COLD-FORMED STEEL DESIGNER.

3. MAINTAIN PROPER EDGE DISTANCE AND SPACING OF FASTENERS AS RECOMMENDED BY THE STUD MANUFACTURER IN REGARDS TO CUT ENDS, FLANGES, KNOCKOUTS, ETC. WHERE FASTENERS OCCUR AT KNOCKOUTS, CONTRACTOR TO PROVIDE MENDING PLATE OVER KNOCKOUT (GAGE TO MATCH STUD).

4. WELDING SHALL BE PERFORMED ONLY BY QUALIFIED WELDERS USING PROPER EQUIPMENT FOR THE PARTICULAR TYPE OF WORK REQUIRED.

5. ALL WELDED CONNECTIONS OF STUDS SHALL BE AS RECOMMENDED BY THE STUD MANUFACTURER.

6. ALL WELDS SHALL CONFORM TO AWS D1.3 SPECIFICATIONS FOR WELDING SHEET STEEL IN STRUCTURES. WELDING ELECTRODES SHALL BE IN ACCORDANCE WITH AWS A5.1, A5.5, OR A5.18 SERIES E60.

7. ALL STRUCTURAL FRAMING MEMBERS 16 GAGE AND HEAVIER SHALL BE IN ACCORDANCE WITH ASTM A446, GRADE D, FY=50,000 PSI.

8. ALL STRUCTURAL FRAMING MEMBERS 18 GAGE AND LIGHTER SHALL BE IN ACCORDANCE WITH ASTM A653, GRADE A, FY=33,000 PSI.

9. PROVIDE ALL METAL STUD BRACING/BRIDGING AS REQUIRED BY THE STUD MANUFACTURER.

10. ALL TRACK AND BRIDGING MATERIALS SHALL HAVE FY=33,000 PSI MINIMUM.

11. ALL FRAMING MEMBERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A525. THE COATING SHALL BE GRADE 60.

12. CUT ALL FRAMING COMPONENTS TO FIT SQUARELY AGAINST ABUTTING MEMBERS AND HOLD FIRMLY IN POSITION UNTIL PROPERLY FASTENED.

13. ALL PANELS SHALL BE SQUARE AND BRACED AGAINST RACKING.

14. WIRE TYING OF STRUCTURAL FRAMING COMPONENTS IS NOT PERMITTED.

15. SPLICES IN STRUCTURAL FRAMING MEMBERS ARE NOT PERMITTED WITHOUT APPROVAL OF THE ENGINEER.

16. CONTRACTOR SHALL NOT ALLOW AXIAL LOADS TO STUDS UNTIL ALL BRIDGING, CONNECTIONS, AND ATTACHMENT OF COLLATERAL MATERIALS ARE COMPLETE.

17. ATTACH TRACK SECURELY TO THE FLOOR AND OVERHEAD STRUCTURE. SEAT STUDS SQUARELY TO THE FLOOR AND OVERHEAD TRACK AND ATTACH SECURELY.

18. METAL FLOOR DECK SHALL BE .6C x 22 GAGE TYPE 'C' UNCOATED FORM DECK. STEEL SHEETS SHALL HAVE A MINIMUM YIELD STRENGTH OF 33 KSI. INSTALL PER STEEL DECK INSTITUTE SPECIFICATIONS. METAL DECK BY VULCRAFT OR APPROVED EQUAL.

19. METAL STUD PROPERTIES SHALL BE AS FOLLOWS:
    3 5/8" x 16 GAGE W/ 1 5/8" FLANGES........(362S162-54) 50 KSI,
    Ix=0.873 IN.4 Sx=0.482 IN.3
    4" x 16 GAGE W/ 1 5/8" FLANGES.................(400S162-54) 50 KSI,
    Ix=1.09 IN.4 Sx=0.54 IN.3
    6" x 16 GAGE W/ 1 5/8" FLANGES.................(600S162-54) 50 KSI,
    Ix=2.86 IN.4 Sx=0.95 IN.3
    6" x 14 GAGE W/ 1 5/8" FLANGES.................(600S162-68) 50 KSI,
    Ix=3.52 IN.4 Sx=1.17 IN.3
    6" x 16 GAGE W/ 2" FLANGES........................(600S200-54) 50 KSI,
    Ix=3.31 IN.4 Sx=1.10 IN.3

STRUCTURAL STEEL NOTES

1. AN ALLOWANCE SHALL BE MADE IN THE BID FOR AN ADDITIONAL 5% OF THE STEEL PRICE OF MATERIAL (1/2 TON MINIMUM) AND AN ADDITIONAL 5% IN THE PRICE OF LABOR. THIS ALLOWANCE SHALL BE USED AT THE DISCRETION OF THE STRUCTURAL ENGINEER IF REQUIRED DURING THE CONSTRUCTION PROCESS. ANY UNUSED PORTION OF THIS ALLOWANCE SHALL RESULT IN A CREDIT TO THE OWNER.

2. ALL STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL BE IN ACCORDANCE WITH ASTM A992 SPECIFICATIONS (Fy = 50 KSI). ALL OTHER STRUCTURAL STEEL SHAPES SHALL BE IN ACCORDANCE WITH ASTM A36 SPECIFICATIONS (Fy = 36 KSI). HOLLOW STRUCTURAL SECTIONS SHALL BE IN ACCORDANCE WITH ASTM A500 GRADE B (Fy = 46 KSI).

3. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL OF STEEL CONSTRUCTION" OF THE "AMERICAN INSTITUTE OF STEEL CONSTRUCTION".

4. ALL FIELD BOLTED SHEAR CONNECTIONS SHALL BE BEARING TYPE CONNECTIONS (THREADS INCLUDED IN THE SHEAR PLANE) WITH 3/4" DIAMETER ASTM A325 HIGH STRENGTH BOLTS UNLESS OTHERWISE NOTED ON THE DRAWINGS. LOADS SHOWN ON PLAN ARE ALLOWABLE STRESS DESIGN LOADS (ASD). IF LOADS ARE NOT CALLED OUT ON PLAN, ALL SHEAR CONNECTIONS SHALL BE DESIGNED TO SUPPORT HALF OF THE TOTAL UNIFORM LOAD CAPACITY SHOWN IN THE "TABLES OF ALLOWABLE LOADS ON BEAMS" OF THE LATEST EDITION OF THE A.I.S.C. "MANUAL OF STEEL CONSTRUCTION". THE LENGTH OF THE SPAN SHALL BE AS SHOWN ON THE DRAWINGS. THE ABOVE IS NOT REQUIRED IF THE REACTION IS SHOWN ON THE PLANS.

5. ALL WELDED CONNECTIONS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL OF STEEL CONSTRUCTION" OF THE "AMERICAN INSTITUTE OF STEEL CONSTRUCTION" AND THE LATEST EDITION OF THE "CODE FOR WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY. USE E70XX LOW HYDROGEN ELECTRODES.

6. METAL FLOOR DECK SHALL BE 0.6C x 26 GAGE TYPE 'C' UNCOATED FLOOR DECK. STEEL SHEETS SHALL HAVE A MINIMUM YIELD STRENGTH OF 33 KSI. INSTALL PER STEEL DECK INSTITUTE SPECIFICATIONS.

7. METAL ROOF DECK SHALL BE 1.0E x 26 GAGE TYPE 'B' PAINTED ROOF DECK. STEEL SHEETS SHALL HAVE A MINIMUM YIELD STRENGTH OF 33 KSI. INSTALL PER STEEL DECK INSTITUTE SPECIFICATIONS.

8. ALL STEEL EXPOSED TO WEATHER SHALL BE HOT-DIPPED GALVANIZED.

9. ALL FASTENERS EXPOSED TO WEATHER SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.

10. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE STEEL FRAME IN PROPER ALIGNMENT UNTIL ALL ROOF DECK, BRIDGING, BRACING, ETC. IS IN PLACE TO RESIST LATERAL MOVEMENT OF THE FRAME.

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SECURITY VESTIBULE & OFFICE ADDITION & ALTERATIONS FOR YATES ELEMENTARY SCHOOL

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COMMONWEALTH OF VIRGINIA
25 FEBRUARY 2025
CHRISTOPHER D. STERNE

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GENERAL NOTES

JOB NUMBER 2312

SPC STRUCTURAL ENGINEERS
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Designed: CDS BIM: SBQ

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FOUNDATION PLAN NOTES

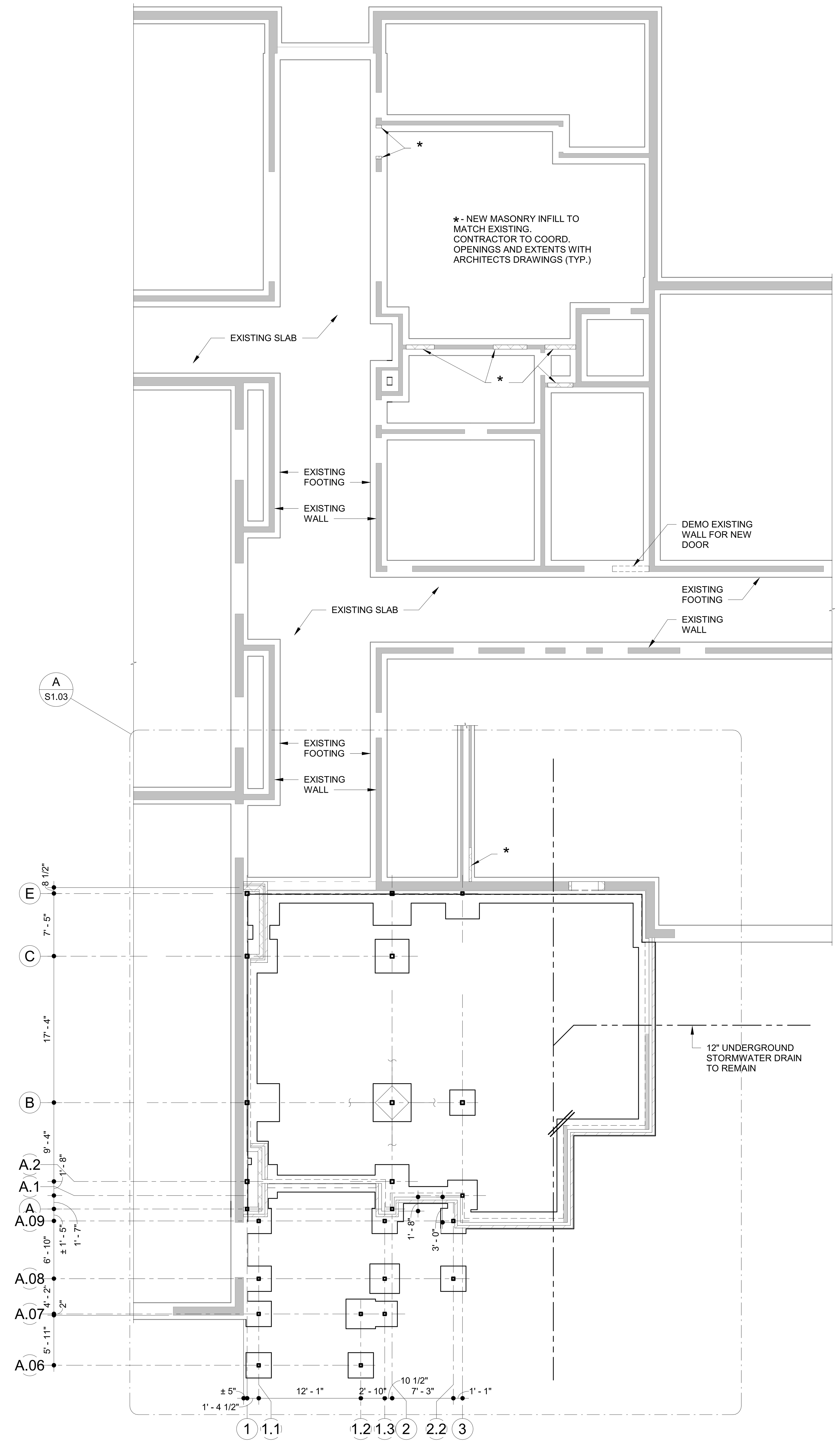
A	CONTINUOUS CONCRETE WALL FOOTINGS SHALL BE 'WF2.0' (SEE WALL FOOTING SCHEDULE) & CENTERED BENEATH FOUNDATION WALLS UNLESS OTHERWISE NOTED ON PLAN OR IN SECTIONS.
B	UNLESS OTHERWISE NOTED ON PLAN, TOP OF ALL FOOTINGS SHALL MATCH EXISTING ELEVATIONS.
C	ALL FOOTING ELEVATIONS ARE MAXIMUM AND SHALL BE LOWERED AS NECESSARY TO OBTAIN THE DESIGN BEARING PRESSURE OR TO MAINTAIN ADEQUATE COVER OVER THE FOOTINGS.
D	SLAB ON GRADE SHALL BE 4" THICK CONCRETE REINFORCED WITH 6x6-W1.4xW1.4 WELDED WIRE FABRIC 2" FROM THE TOP OF SLAB. THE SLAB SHALL BE PLACED ON A 10 MIL POLYETHYLENE VAPOR BARRIER & 4" OF POROUS FILL.
E	PROVIDE SAWED JOINTS OR CONSTRUCTION JOINTS AT ALL COLUMN CENTERLINES. ADDITIONAL SAWED JOINTS SHALL BE PROVIDED SO THAT NO SLAB ON GRADE PANEL EXCEEDS 30 TIMES THE SLAB THICKNESS IN EITHER DIRECTION PER A.C.I. RECOMMENDATIONS. THE SAWED JOINTS SHALL BE CUT AS SOON AS POSSIBLE PER A.C.I. RECOMMENDATIONS.
F	REENTRANT BARS - SEE DETAIL ON SHEET S2.01.
G	COLUMN ISOLATION JOINT - SEE DETAIL ON SHEET S2.02.
H	SEE SHEET S2.01 AND S2.02 FOR FOUNDATION & SLAB ON GRADE DETAILS.
J	DOWEL NEW FOOTING INTO EXISTING. SEE "INTERSECTION OF NEW AND EXISTING FOOTINGS DETAIL" ON SHEET S2.01.
K	DOWEL NEW PORTION OF FOOTING INTO EXISTING. DOWELS SHALL BE 7 - #4 BARS SET IN HILTI RE500V3 ADHESIVE (18" EMBEDMENT) TOP AND BOTTOM OF FOOTING.

WALL FOOTING SCHEDULE

	DIMENSIONS		REINFORCING				
			CONTINUOUS		SPACER BARS		
MARK	WIDTH	DEPTH	QUANTITY	SIZE	SIZE	SPACING	NOTES
WF2.0	2' - 0"	1' - 0"	2	5	4	6' - 0"	

COLUMN FOOTING SCHEDULE

	DIMENSIONS			REINFORCING				
				A - BARS		B - BARS		
MARK	WIDTH	LENGTH	DEPTH	QUANTITY	SIZE	QUANTITY	SIZE	REMARKS
CF3.0	3' - 0"	3' - 0"	1' - 0"	4	4	4	4	TOP AND BOTTOM
CF3.5	3' - 6"	3' - 6"	1' - 0"	4	5	4	5	
CF4.0	4' - 0"	4' - 0"	1' - 0"	4	5	4	5	



FOUNDATION PLAN
1/8" = 1'-0"

HUDSON+ASSOCIATES
ARCHITECTS
120 WEST QUEENS WAY SUITE 201 HAMPTON, VA.
(757) 722-1964 23669

SECURITY VESTIBULE & OFFICE ADDITION & ALTERATIONS FOR YATES ELEMENTARY SCHOOL
73 MAXWELL LANE
NEWPORT NEWS, VIRGINIA 23606

COMMONWEALTH OF VIRGINIA
25 FEBRUARY 2025
CHRISTOPHER D. STERNE
PROFESSIONAL ENGINEER

FEBRUARY 25, 2025

FOUNDATION PLAN

JOB NUMBER 2312

SPC STRUCTURAL ENGINEERS
SINCLAIR PRATT CAMERON, P.C.
1630 DONNA DRIVE - SUITE 105
VIRGINIA BEACH, VA 23451-6188
757.417.0565 * 757.417.0568 (fax)
WWW.SPC-ENG.COM 24-0071
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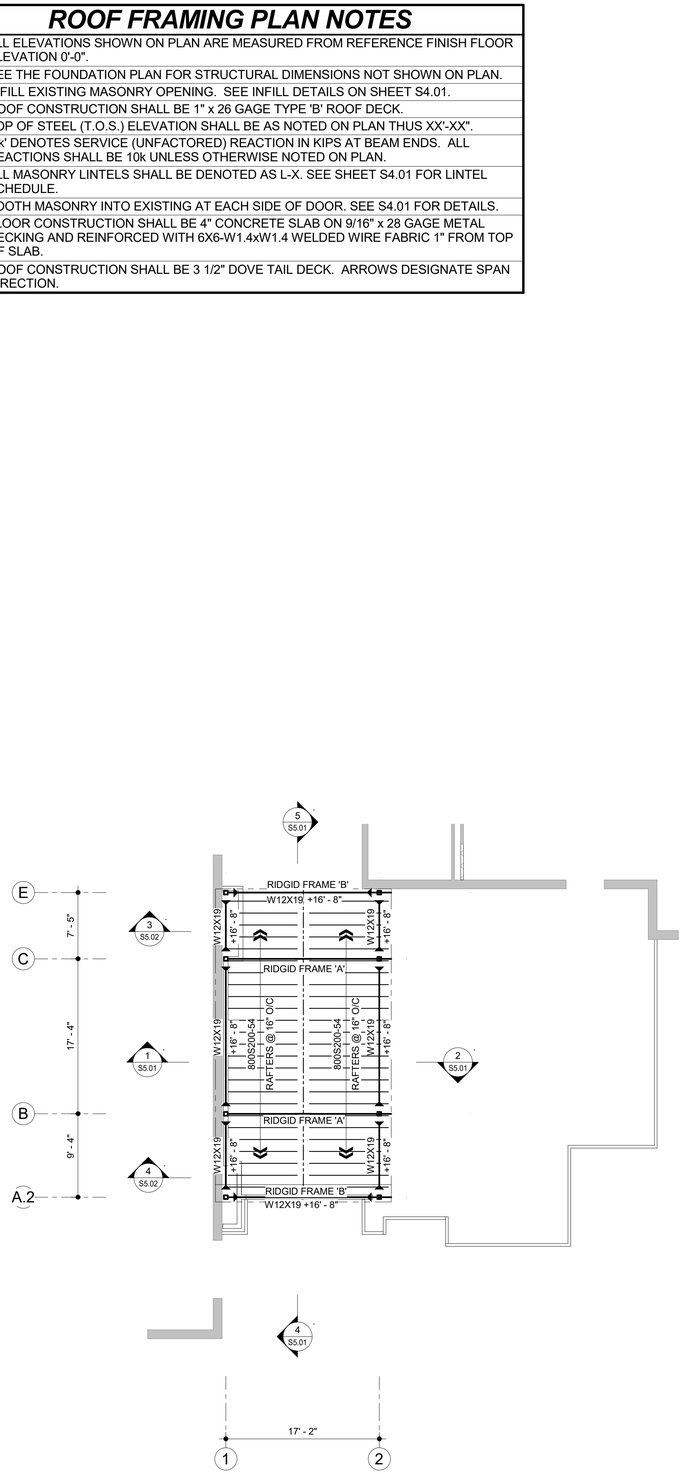
S1.01

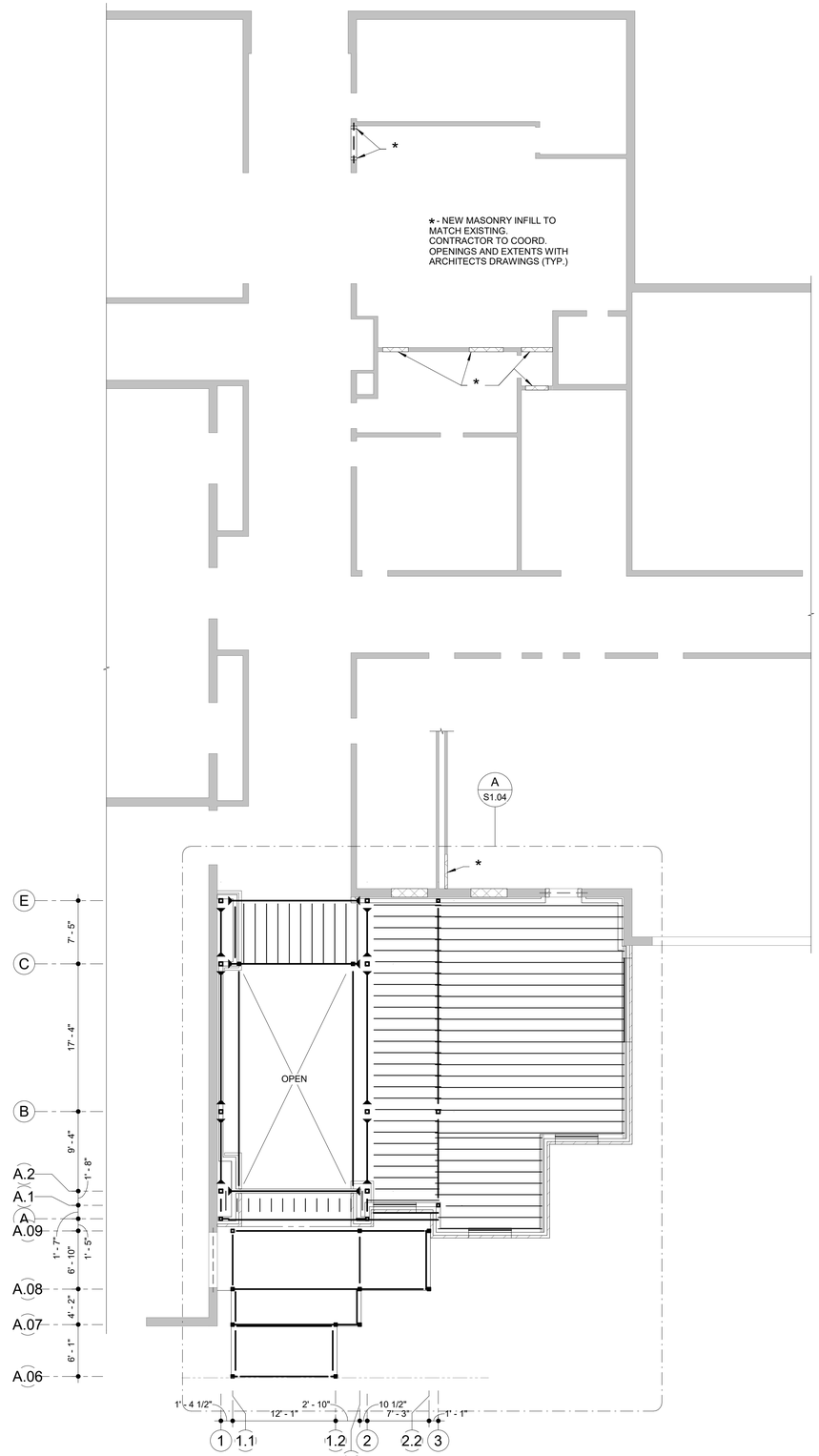
ROOF FRAMING PLAN NOTES

A	ALL ELEVATIONS SHOWN ON PLAN ARE MEASURED FROM REFERENCE FINISH FLOOR ELEVATION 0'-0".
B	SEE THE FOUNDATION PLAN FOR STRUCTURAL DIMENSIONS NOT SHOWN ON PLAN.
C	INFILL EXISTING MASONRY OPENING. SEE INFILL DETAILS ON SHEET S4.01.
D	ROOF CONSTRUCTION SHALL BE 1" x 26 GAGE TYPE 'B' ROOF DECK.
E	TOP OF STEEL (T.O.S.) ELEVATION SHALL BE AS NOTED ON PLAN THUS XX'-XX".
F	'Xk' DENOTES SERVICE (UNFACTORED) REACTION IN KIPS AT BEAM ENDS. ALL REACTIONS SHALL BE 10k UNLESS OTHERWISE NOTED ON PLAN.
G	ALL MASONRY LINTELS SHALL BE DENOTED AS L-X. SEE SHEET S4.01 FOR LINTEL SCHEDULE.
H	TOOTH MASONRY INTO EXISTING AT EACH SIDE OF DOOR. SEE S4.01 FOR DETAILS.
J	FLOOR CONSTRUCTION SHALL BE 4" CONCRETE SLAB ON 9/16" x 28 GAGE METAL DECKING AND REINFORCED WITH 6X6-W1.4xW1.4 WELDED WIRE FABRIC 1" FROM TOP OF SLAB.
K	ROOF CONSTRUCTION SHALL BE 3 1/2" DOVE TAIL DECK. ARROWS DESIGNATE SPAN DIRECTION.



HIGH ROOF FRAMING PLAN

1/8" = 1'-0"



LOW ROOF FRAMING PLAN

1/8" = 1'-0"

HUDSON + ASSOCIATES
ARCHITECTS
120 WEST QUEENS WAY SUITE 201 HAMPTON, VA.
(757) 722-1964 23669

SECURITY VESTIBULE & OFFICE ADDITION & ALTERATIONS FOR YATES ELEMENTARY SCHOOL

73 MAXWELL LANE
NEWPORT NEWS, VIRGINIA 23606

COMMONWEALTH OF VIRGINIA
25 FEBRUARY 2025
CHRISTOPHER D. STERNE
LIC. NO. 41552
PROFESSIONAL ENGINEER

FEBRUARY 25, 2025

LOW AND HIGH ROOF FRAMING PLANS

JOB NUMBER 2312

SPC STRUCTURAL ENGINEERS
SINCLAIR PRATT CAMERON, P.C.
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757.417.0565 * 757.417.0568 (fax)
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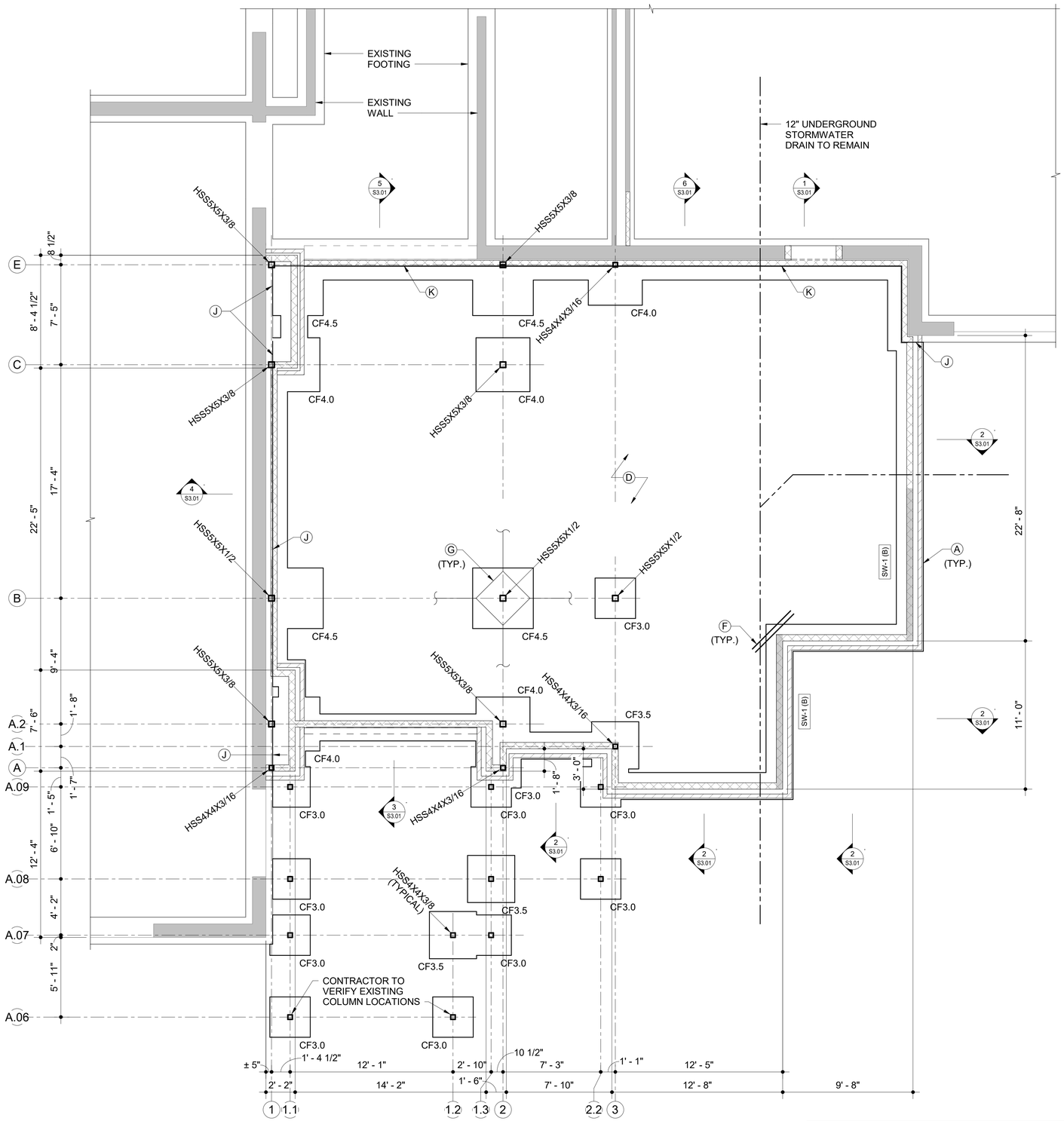
S1.02



A S1.03 ENLARGED FOUNDATION PLAN
1/4" = 1'-0"

HUDSON + ASSOCIATES
ARCHITECTS
120 WEST QUEENS WAY SUITE 201 HAMPTON, VA.
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SECURITY VESTIBULE & OFFICE ADDITION & ALTERATIONS FOR YATES ELEMENTARY SCHOOL

73 MAXWELL LANE
NEWPORT NEWS, VIRGINIA 23606

COMMONWEALTH OF VIRGINIA
25 FEBRUARY 2025
CHRISTOPHER D. STERNE
Lic. No. 0402
PROFESSIONAL ENGINEER

FEBRUARY 25, 2025

ENLARGED FOUNDATION PLAN

JOB NUMBER 2312

SPC STRUCTURAL ENGINEERS
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S1.03

ROOF FRAMING PLAN NOTES

A	ALL ELEVATIONS SHOWN ON PLAN ARE MEASURED FROM REFERENCE FINISH FLOOR ELEVATION 0'-0".
B	SEE THE FOUNDATION PLAN FOR STRUCTURAL DIMENSIONS NOT SHOWN ON PLAN.
C	INFILL EXISTING MASONRY OPENING. SEE INFILL DETAILS ON SHEET S4.01.
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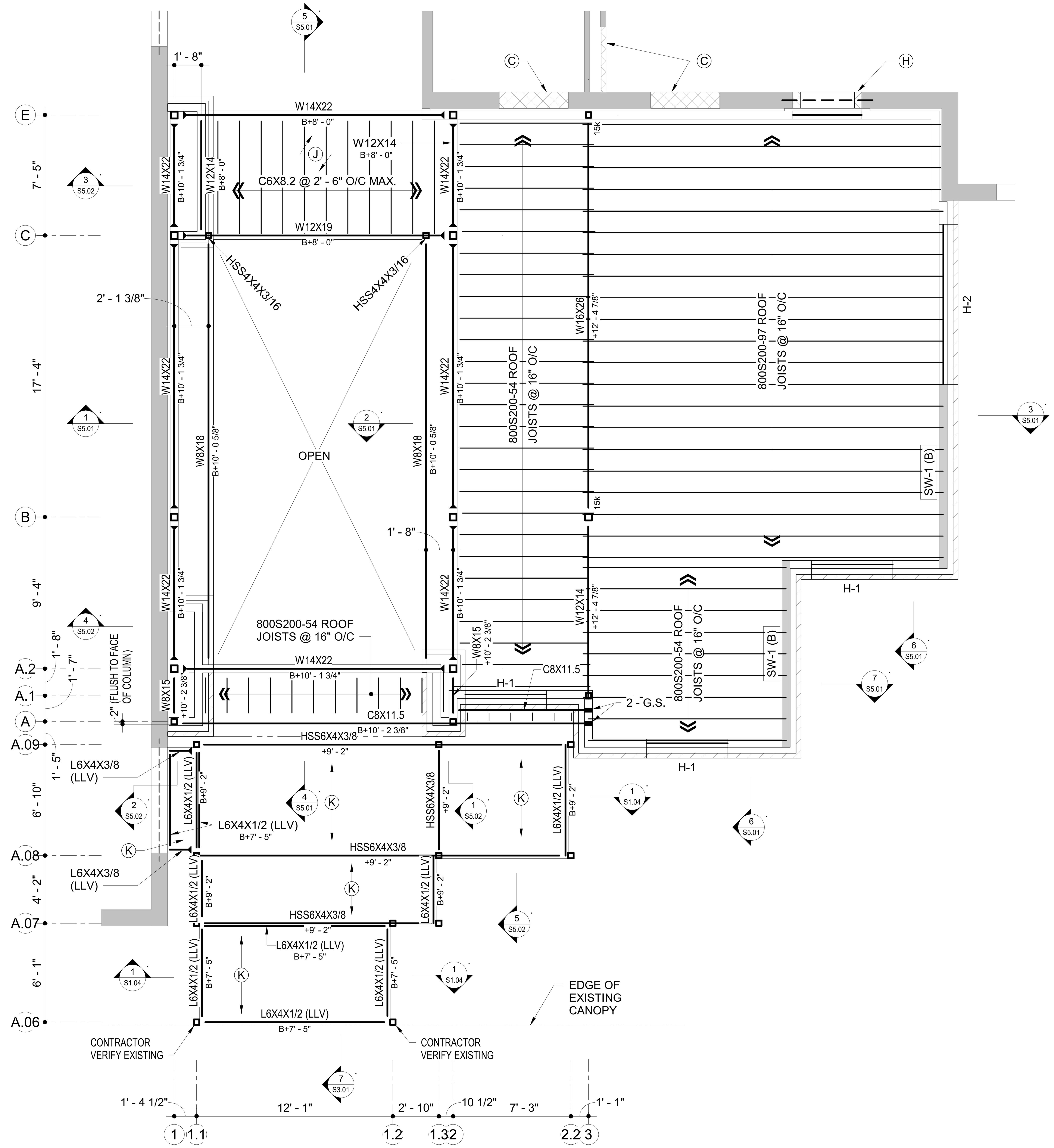
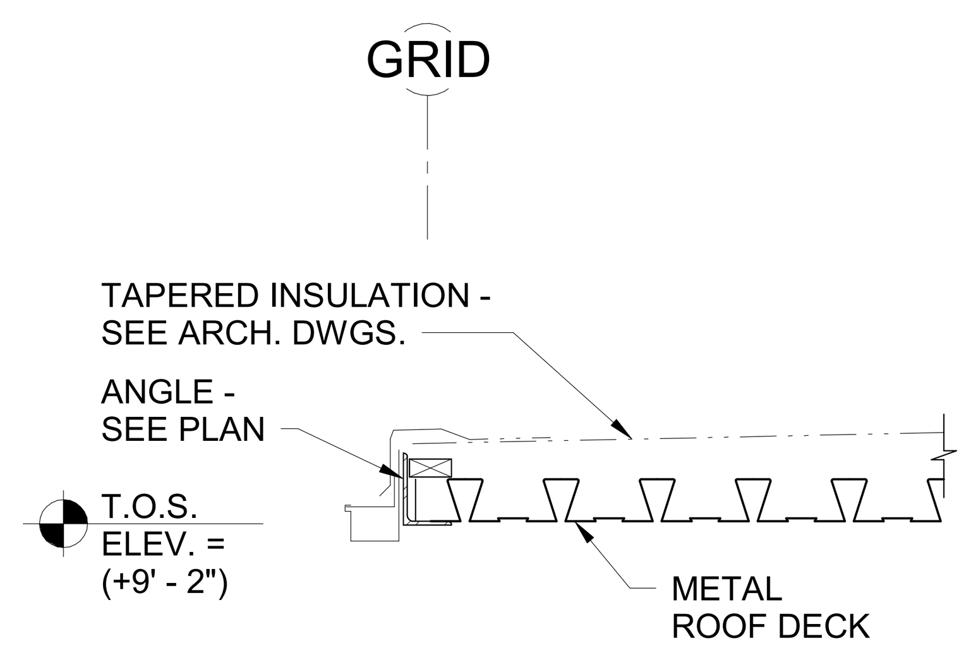
H	TOOTH MASONRY INTO EXISTING AT EACH SIDE OF DOOR. SEE S4.01 FOR DETAILS.
J	FLOOR CONSTRUCTION SHALL BE 4" CONCRETE SLAB ON 9/16" x 28 GAGE METAL DECKING AND REINFORCED WITH 6X6-W1.4xW1.4 WELDED WIRE FABRIC 1" FROM TOP OF SLAB.
K	ROOF CONSTRUCTION SHALL BE 3 1/2" DOVE TAIL DECK. ARROWS DESIGNATE SPAN DIRECTION.



A S1.04 ENLARGED LOW ROOF FRAMING PLAN
1/4" = 1'-0"



1 S1.04 SECTION
3/4" = 1'-0"

HUDSON+ASSOCIATES ARCHITECTS
120 WEST QUEENS WAY SUITE 201 HAMPTON, VA.
(757) 722-1964 23669

SECURITY VESTIBULE & OFFICE ADDITION & ALTERATIONS FOR YATES ELEMENTARY SCHOOL
73 MAXWELL LANE
NEWPORT NEWS, VIRGINIA 23606

25 FEBRUARY 2025
CHRISTOPHER D. STERNE

FEBRUARY 25, 2025

ENLARGED LOW ROOF FRAMING PLAN

JOB NUMBER 2312

SPC STRUCTURAL ENGINEERS
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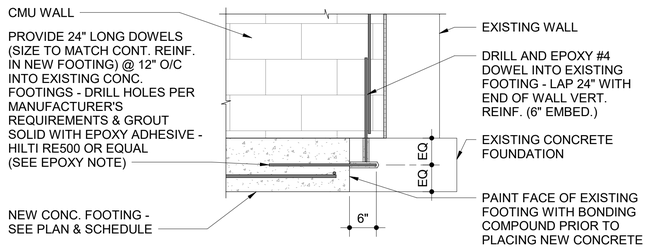
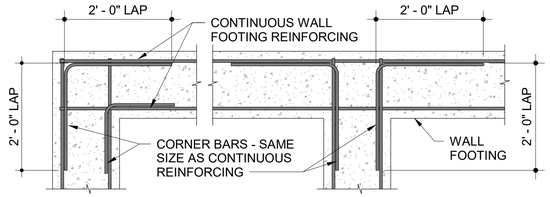
S1.04

EPOXY NOTE: FOLLOW THE EPOXY MANUFACTURER'S SPECIFIC INSTRUCTIONS FOR DRILLING, CLEANING & SETTING OF DOWELS. CONTACT STRUCTURAL ENGINEER OF RECORD PRIOR TO INSTALLING EPOXY ANCHOR BOLTS.



INTERSECTION OF NEW & EXISTING FOOTINGS DETAIL

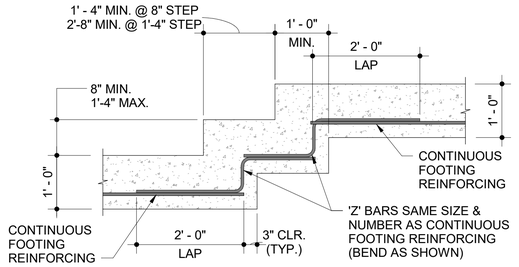
NOT TO SCALE



PLAN AT CORNER **PLAN AT INTERSECTION**

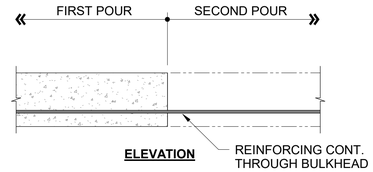
CONT. WALL FOOTING REINFORCING DETAILS

NOT TO SCALE (AS NECESSARY)



STEPPED FOOTING DETAIL

NOT TO SCALE (IF REQUIRED)



CONTINUOUS WALL FOOTING CONSTRUCTION JOINT DETAIL

NOT TO SCALE

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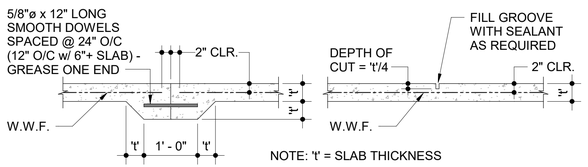
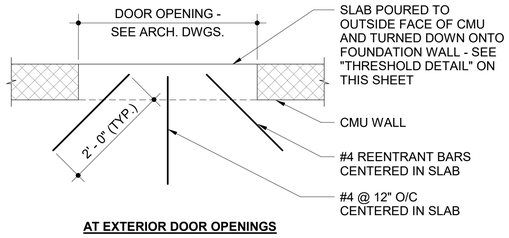
ARCHITECTS
120 WEST QUEENS WAY SUITE 201 HAMPTON, VA.
(757) 722-1964 23669



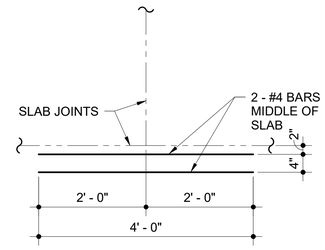
CONSTRUCTION JOINT (C.J.) **SAWED JOINT (S.J.)**

SLAB ON GRADE DETAILS

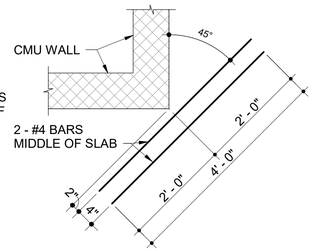
NOT TO SCALE



AT EXTERIOR DOOR OPENINGS



DISCONTINUOUS JOINTS



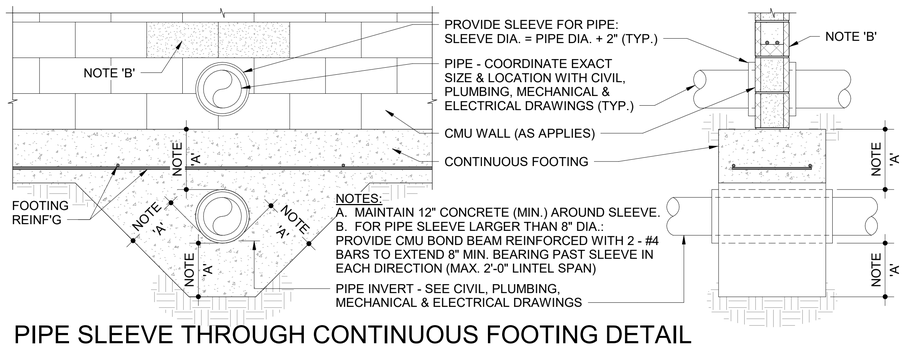
RE-ENTRANT CORNERS

SLAB ON GRADE REINFORCING DETAILS

NOT TO SCALE

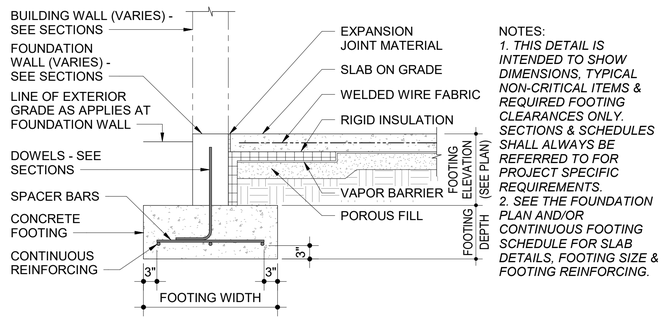
SECURITY VESTIBULE & OFFICE ADDITION & ALTERATIONS FOR YATES ELEMENTARY SCHOOL

73 MAXWELL LANE
NEWPORT NEWS, VIRGINIA 23606



PIPE SLEEVE THROUGH CONTINUOUS FOOTING DETAIL

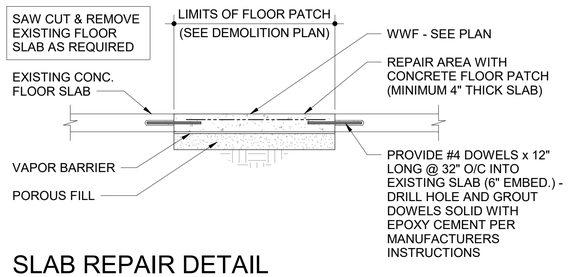
NOT TO SCALE (IF REQUIRED)



NOTES:
1. THIS DETAIL IS INTENDED TO SHOW DIMENSIONS, TYPICAL NON-CRITICAL ITEMS & REQUIRED FOOTING CLEARANCES ONLY. SECTIONS & SCHEDULES SHALL ALWAYS BE REFERRED TO FOR PROJECT SPECIFIC REQUIREMENTS.
2. SEE THE FOUNDATION PLAN AND/OR CONTINUOUS FOOTING SCHEDULE FOR SLAB DETAILS, FOOTING SIZE & FOOTING REINFORCING.

CONTINUOUS WALL FOOTING & SLAB DETAIL

NOT TO SCALE



SLAB REPAIR DETAIL

NOT TO SCALE

COMMONWEALTH OF VIRGINIA
CHRISTOPHER D. STERNE
Lic. No. 021621
PROFESSIONAL ENGINEER
25 FEBRUARY 2025

FEBRUARY 25, 2025

FOUNDATION DETAILS

JOB NUMBER 2312

SPC STRUCTURAL ENGINEERS
SINCLAIR PRATT CAMERON, P.C.
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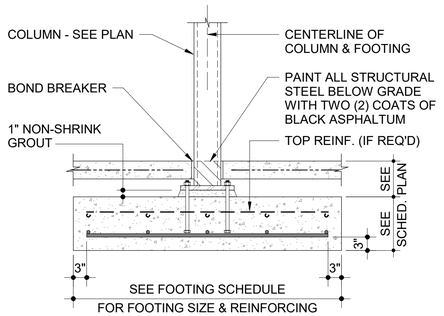
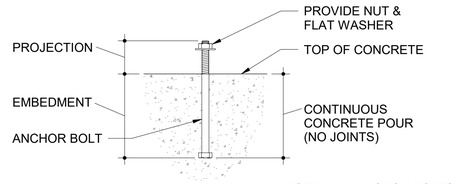
S2.01



COLUMN FOOTING DETAIL

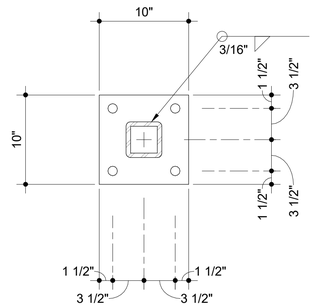
NOT TO SCALE



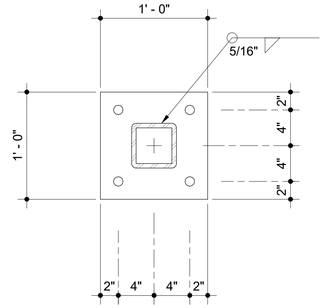
NOTE: ALL ANCHOR BOLTS SHALL BE GRADE 36 AND CONFORM TO ASTM F1554.

ANCHOR BOLT DETAIL

NOT TO SCALE



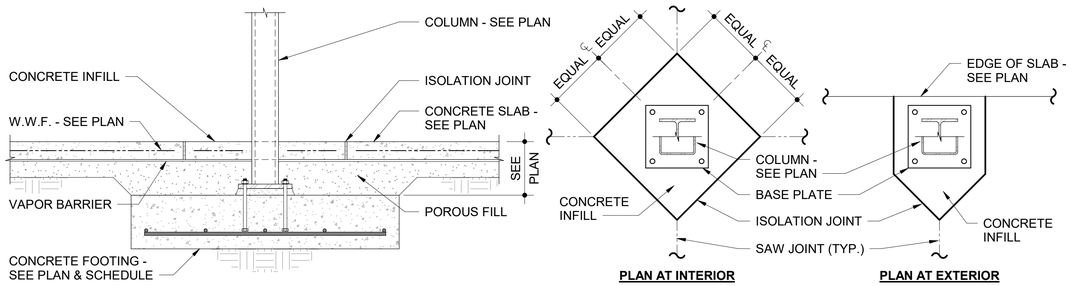
HSS 4" x 4" TUBE COLUMN
10" x 10" x 3/4" BASE PLATE
4 - 3/4"ø ANCHOR BOLTS
9" ANCHOR BOLT EMBEDMENT



HSS 5" x 5" TUBE COLUMN
12" x 12" x 3/4" BASE PLATE
4 - 3/4"ø ANCHOR BOLTS
9" ANCHOR BOLT EMBEDMENT

BASE PLATE DETAILS

NOT TO SCALE



COLUMN ISOLATION JOINT DETAILS

NOT TO SCALE

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SECURITY VESTIBULE & OFFICE ADDITION & ALTERATIONS FOR YATES ELEMENTARY SCHOOL

73 MAXWELL LANE
NEWPORT NEWS, VIRGINIA 23606

COMMONWEALTH OF VIRGINIA
CHRISTOPHER D. STERNE
Lic. No. 040...
25 FEBRUARY 2025

FEBRUARY 25, 2025

FOUNDATION DETAILS

JOB NUMBER 2312

SPC STRUCTURAL ENGINEERS
SINCLAIR PRATT CAMERON, P.C.
1630 DONNA DRIVE - SUITE 105
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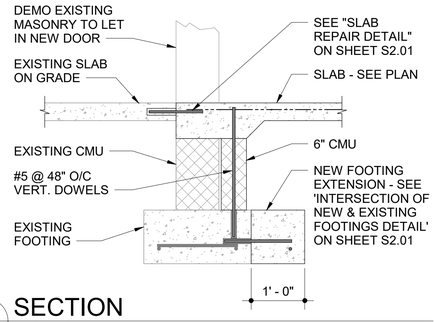
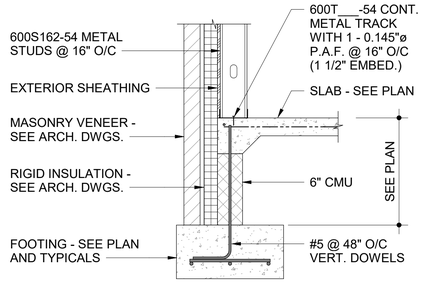
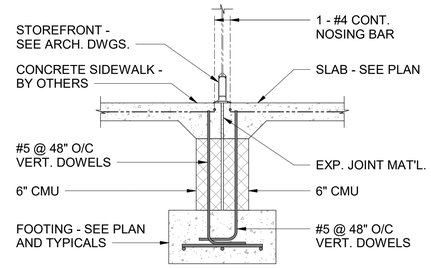
S2.02



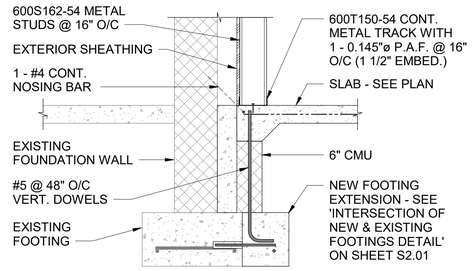
1 S3.01 **SECTION** 3/4" = 1'-0"



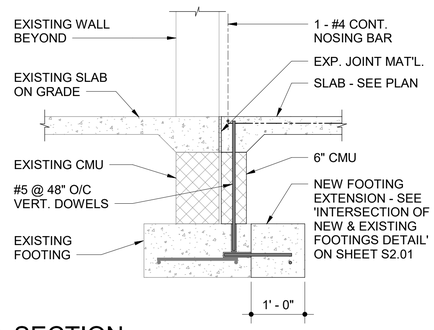
2 S3.01 **SECTION** 3/4" = 1'-0"



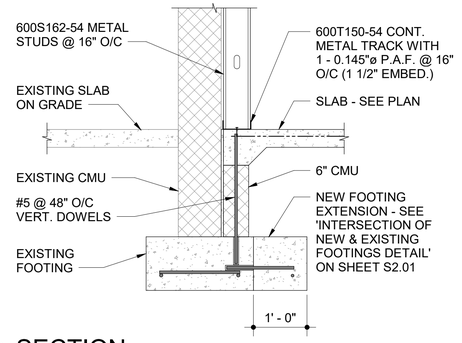
3 S3.01 **SECTION** 3/4" = 1'-0"



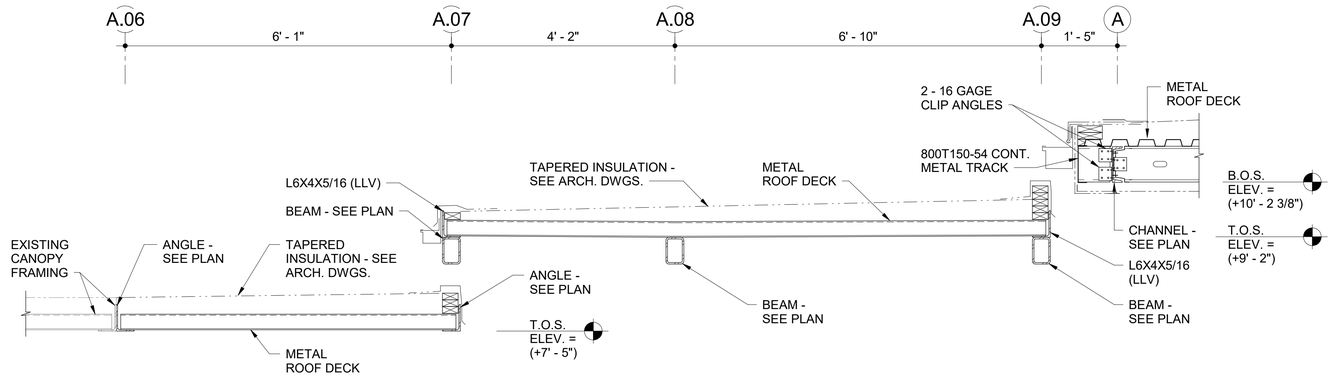
4 S3.01 **SECTION** 3/4" = 1'-0"



5 S3.01 **SECTION** 3/4" = 1'-0"



6 S3.01 **SECTION** 3/4" = 1'-0"



7 S3.01 **SECTION** 3/4" = 1'-0"

HUDSON + ASSOCIATES
A R C H I T E C T S
120 WEST QUEENS WAY SUITE 201 HAMPTON, VA.
(757) 722-1964 23669

SECURITY VESTIBULE & OFFICE ADDITION & ALTERATIONS FOR YATES ELEMENTARY SCHOOL

73 MAXWELL LANE
NEWPORT NEWS, VIRGINIA 23606

COMMONWEALTH OF VIRGINIA
25 FEBRUARY 2025
CHRISTOPHER D. STERNE
Lic. No. 01350
PROFESSIONAL ENGINEER

FEBRUARY 25, 2025

FOUNDATION SECTIONS

JOB NUMBER 2312

SPC STRUCTURAL ENGINEERS
SINCLAIR PRATT CAMERON, P.C.
1630 DONNA DRIVE - SUITE 105
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757.417.0565 * 757.417.0568 (fax)
WWW.SPC-ENG.COM 24-0071
Designed: CDS BIM: SBQ

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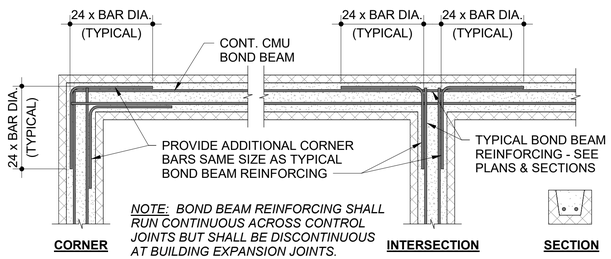
S3.01

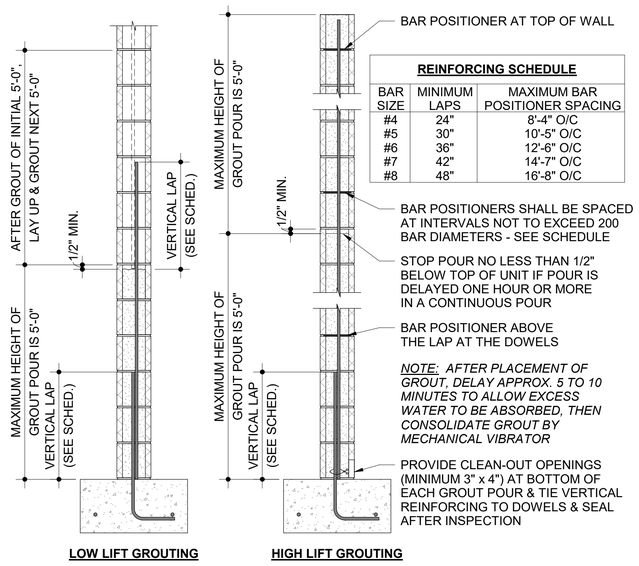
LOOSE BRICK SHELF ANGLE SCHEDULE

SPAN	DESCRIPTION
0' - 0" TO 5' - 6"	L3 1/2 X 3 1/2 X 1/4
5' - 7" TO 10' - 0"	L6 X 3 1/2 X 5/16 LLV



BOND BEAM REINFORCING DETAILS

NOT TO SCALE

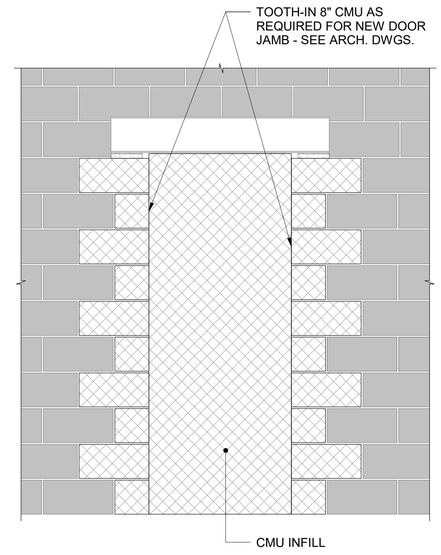


REINFORCING SCHEDULE

BAR SIZE	MINIMUM LAPS	MAXIMUM BAR POSITIONER SPACING
#4	24"	8'-4" O/C
#5	30"	10'-5" O/C
#6	36"	12'-6" O/C
#7	42"	14'-7" O/C
#8	48"	16'-8" O/C

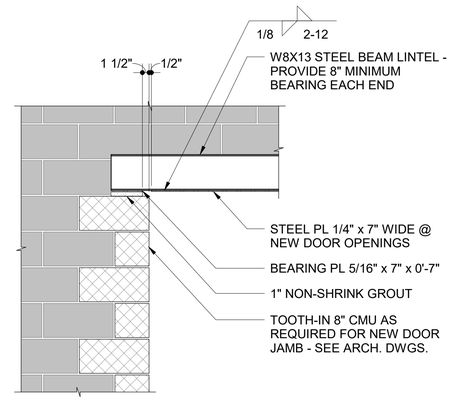
MASONRY REINFORCING & GROUTING DETAILS

NOT TO SCALE



TYPICAL CMU WALL INFILL DETAIL

NOT TO SCALE



TYPICAL NEW STEEL LINTEL INTO EXISTING WALL BEARING DETAIL

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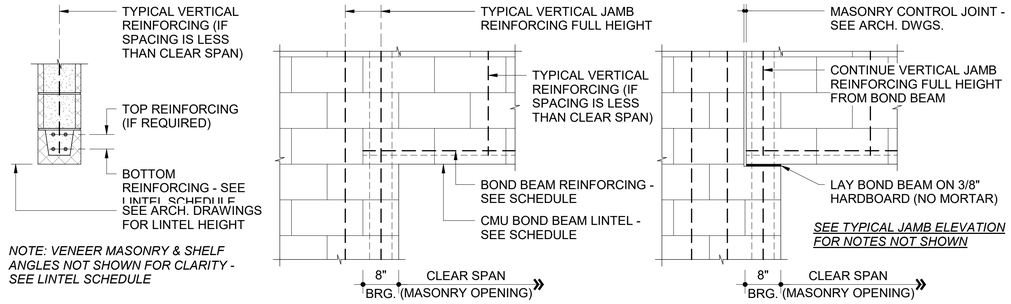

BOND BEAM LINTEL DETAILS

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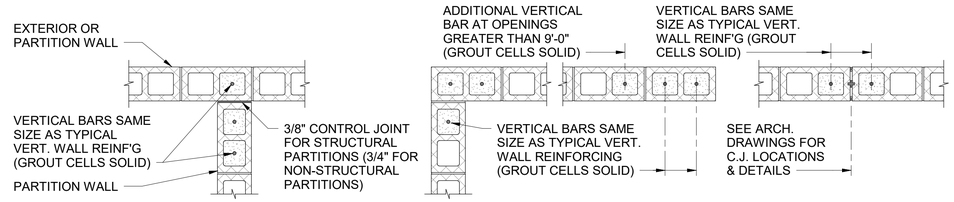

MASONRY VERTICAL WALL REINFORCING DETAILS

NOT TO SCALE

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SECURITY VESTIBULE & OFFICE ADDITION & ALTERATIONS FOR YATES ELEMENTARY SCHOOL

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NEWPORT NEWS, VIRGINIA 23606

COMMONWEALTH OF VIRGINIA
25 FEBRUARY 2025
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FEBRUARY 25, 2025

MASONRY DETAILS

JOB NUMBER 2312

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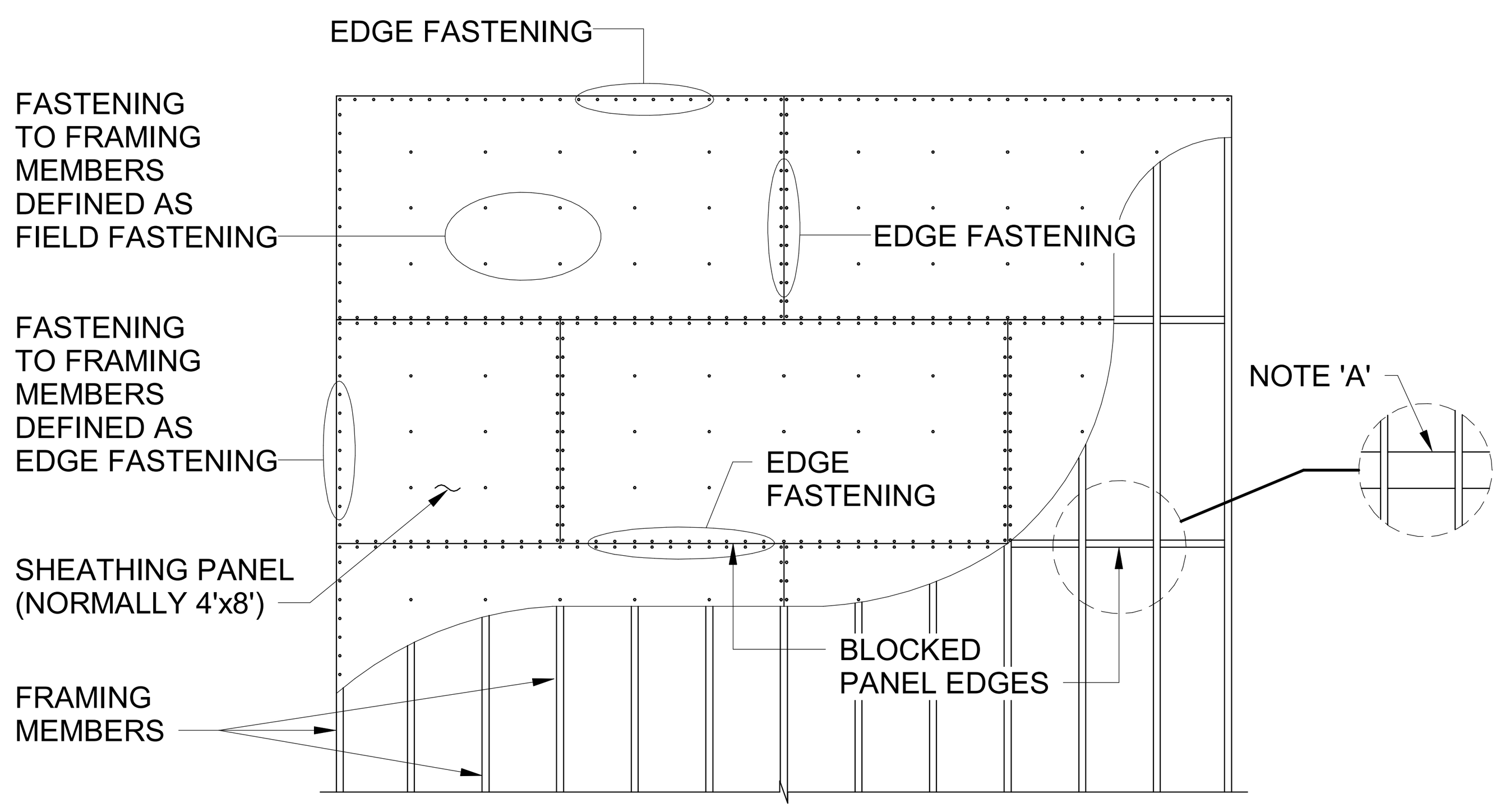
S4.01

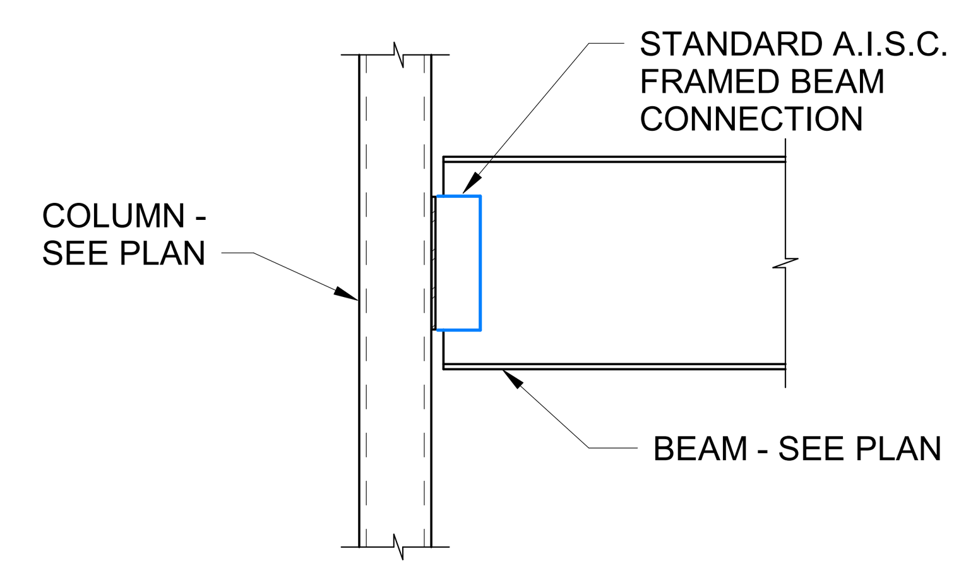


NOTE 'A': *BLOCKING ON SINGLE SIDED SHEARWALLS CAN BE PLACED FLATWISE.*

BLOCKED CONDITION

SHEATHING NAILING PATTERN DETAIL

NOT TO SCALE



BEAM TO COLUMN FRAMING DETAIL

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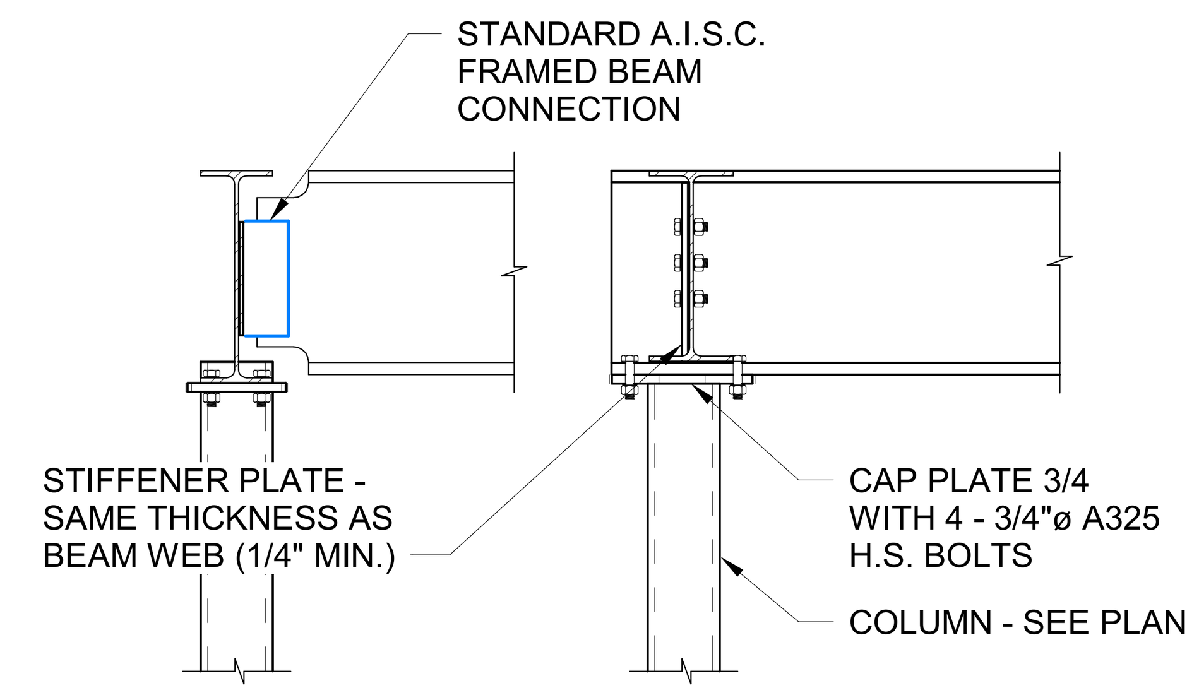
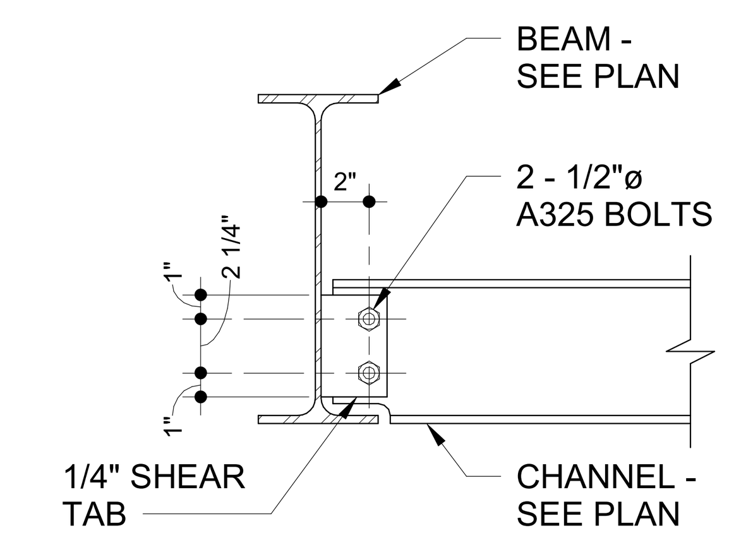


FLOOR BEAM FRAMING DETAILS

NOT TO SCALE



CHANNEL TO BEAM CONNECTION DETAIL

NOT TO SCALE

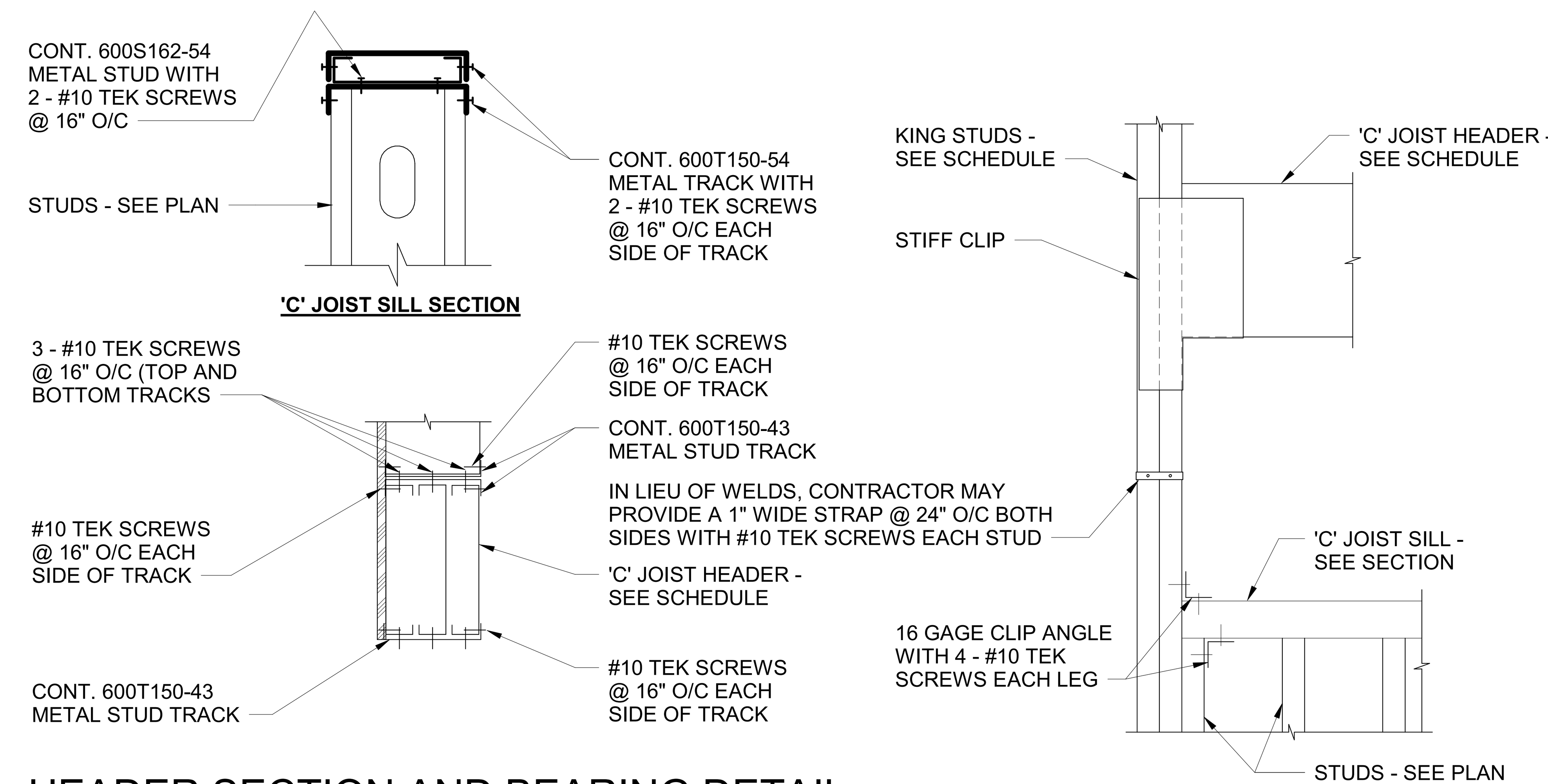
HEADER SCHEDULE

MARK	TYPE	DESCRIPTION	REMARKS
H-1		2 - 600S200-54 JOISTS WITH 600T150-54 TOP AND BOTTOM	
H-2		2 - 800S200-54 JOISTS WITH 600T150-54 TOP AND BOTTOM	3 - 600S200-54 JAMB STUDS

SHEARWALL SCHEDULE

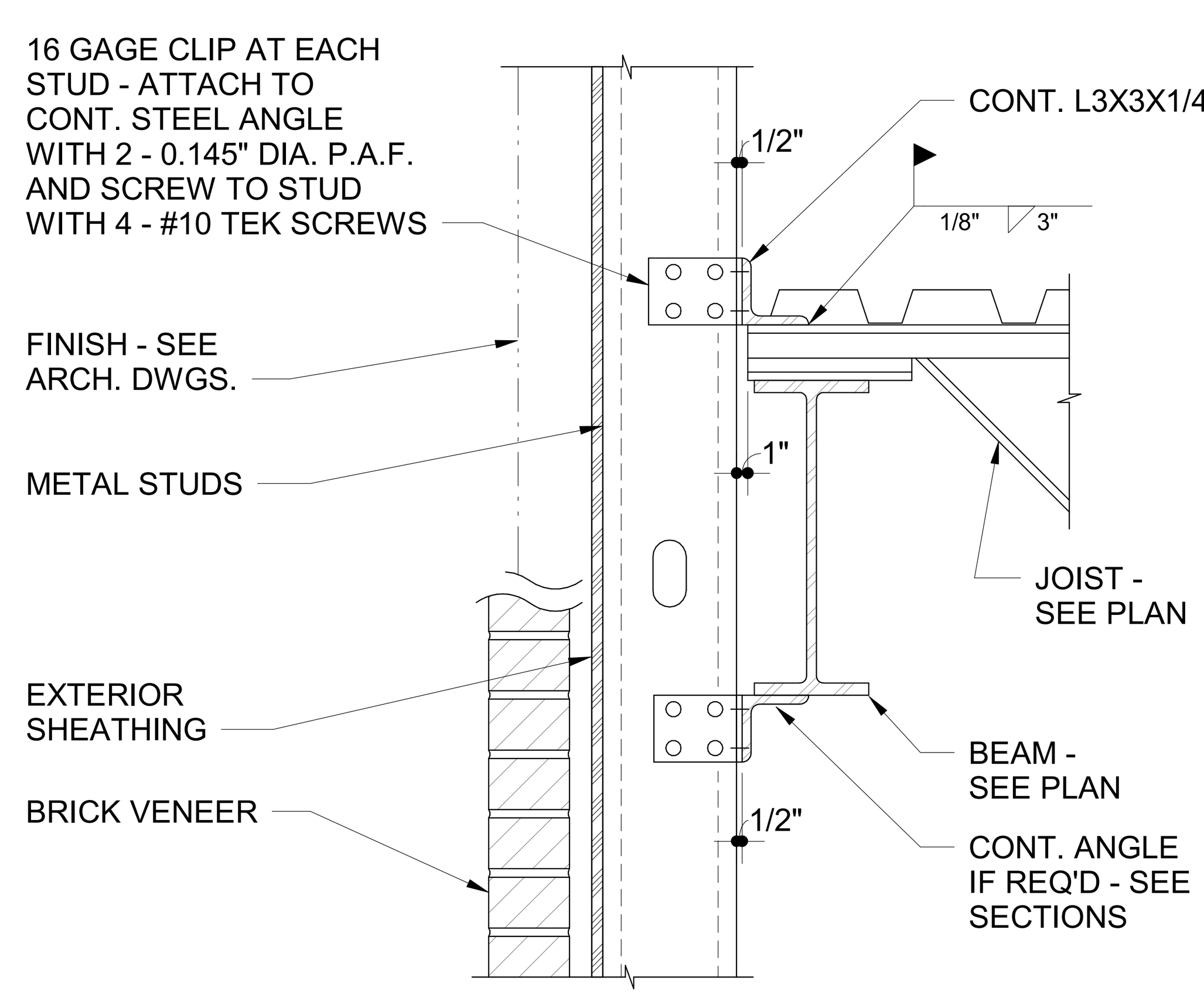
MARK	SHEATHING	EDGE FASTENING	FIELD FASTENING	SCREW TYPE	CHORD MEMBERS	HOLDOWN	HOLDOWN ANCHOR	CHORD MEMBER TEK SCREWS	HOLDOWN ANCHOR BOLT EMBEDMENT("A")	SHEARWALL CONNECTION AT BASE OF WALL
SW-1	5/8" GYP, TWO SIDES	4	12	#8	N/A	5/LTTP2	1/2"ø	12 - #10	9"	_ - 0.145"ø P.A.F. @ __" O/C (1 1/2" EMBED.)

"A" - ANCHOR BOLT EMBEDMENT INTO CONCRETE FOUNDATION. SEE ELEVATIONS.

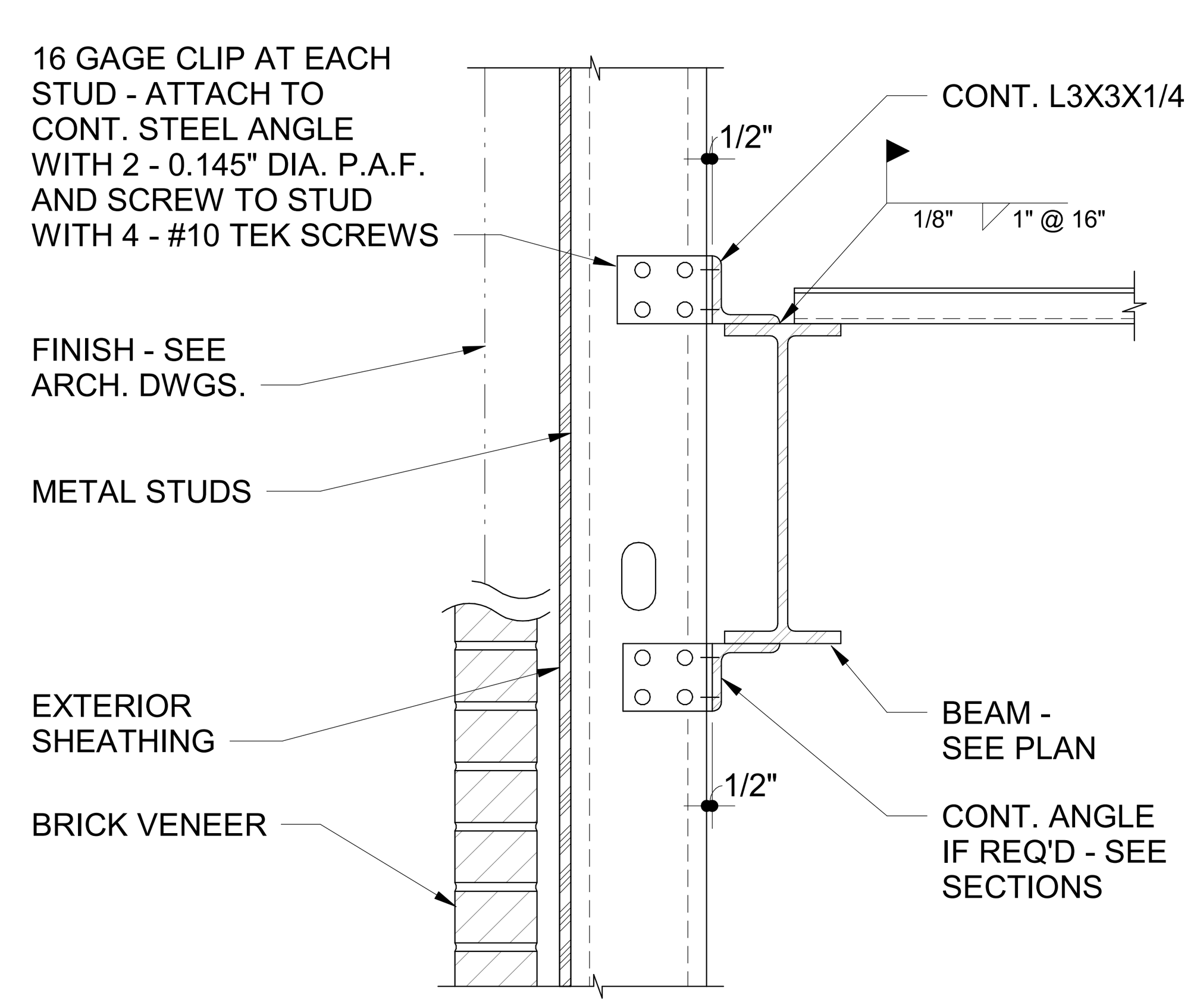


HEADER SECTION AND BEARING DETAIL

NOT TO SCALE



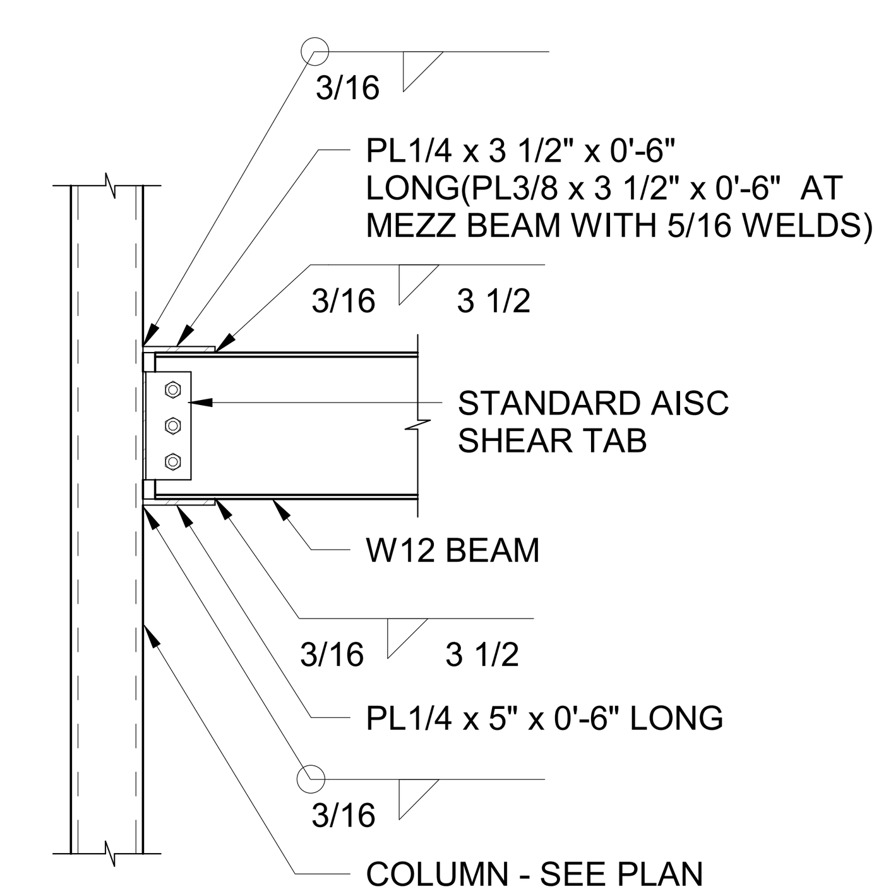
JOIST BEARING CONDITION



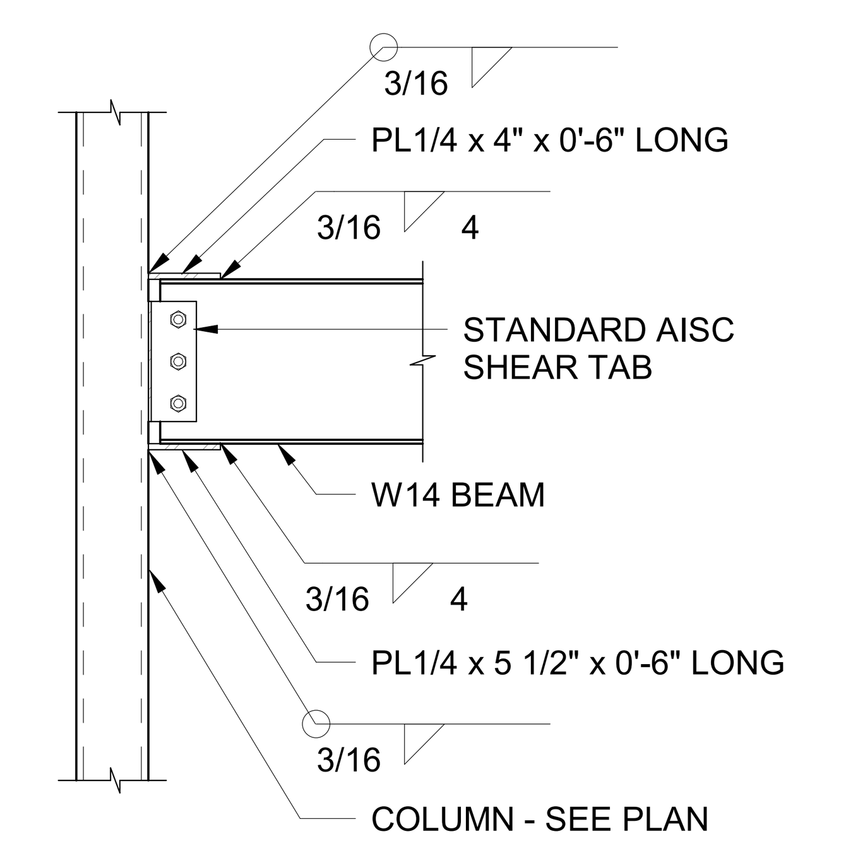
SPANDREL BEAM CONDITION

METAL STUD ATTACHMENT DETAILS

NOT TO SCALE



MOMENT CONNECTON AT W12 BEAMS



MOMENT CONNECTON AT W14 BEAMS

BEAM FRAMING DETAILS - MOMENT CONNECTIONS

NOT TO SCALE

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SECURITY VESTIBULE & OFFICE ADDITION & ALTERATIONS FOR YATES ELEMENTARY SCHOOL

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COMMONWEALTH OF VIRGINIA
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FRAMING AND SHEARWALL DETAILS

JOB NUMBER 2312

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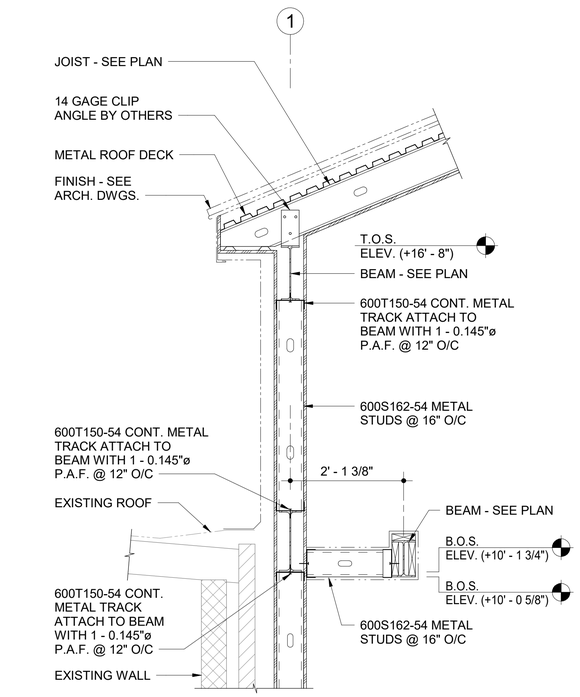
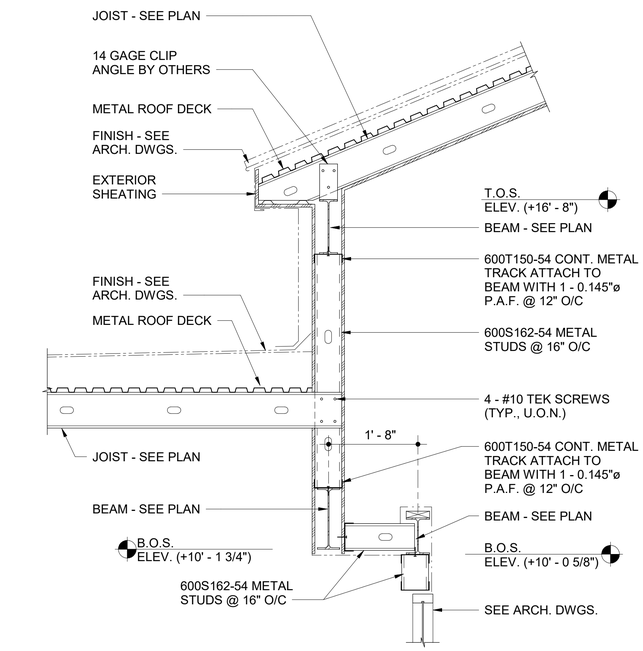
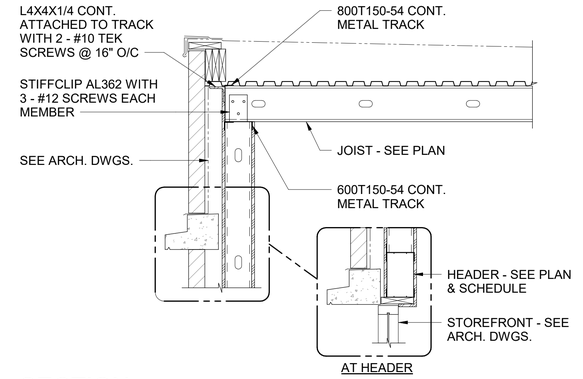
S4.02



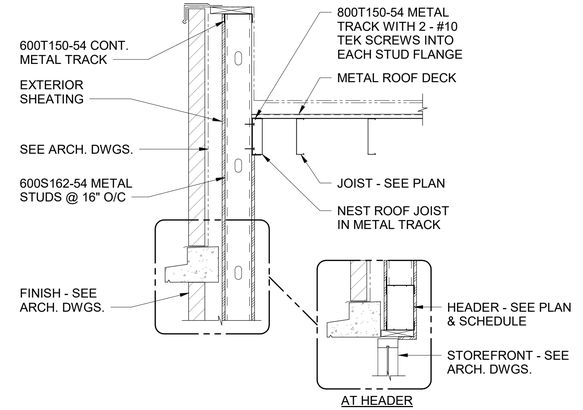
1 S5.01 **SECTION** 3/4" = 1'-0"



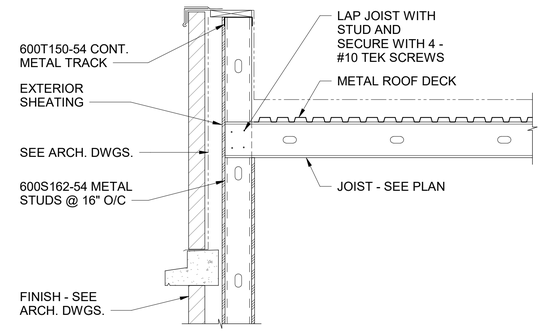
2 S5.01 **SECTION** 3/4" = 1'-0"



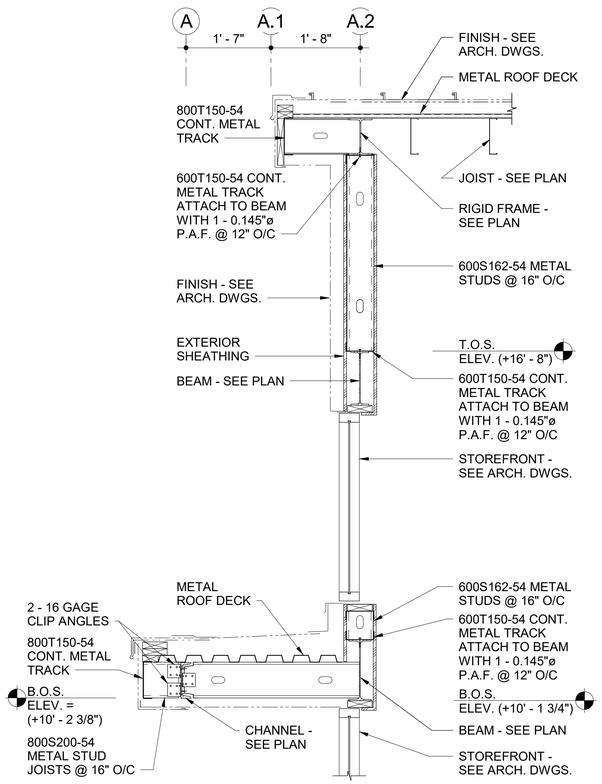
3 S5.01 **SECTION** 3/4" = 1'-0"



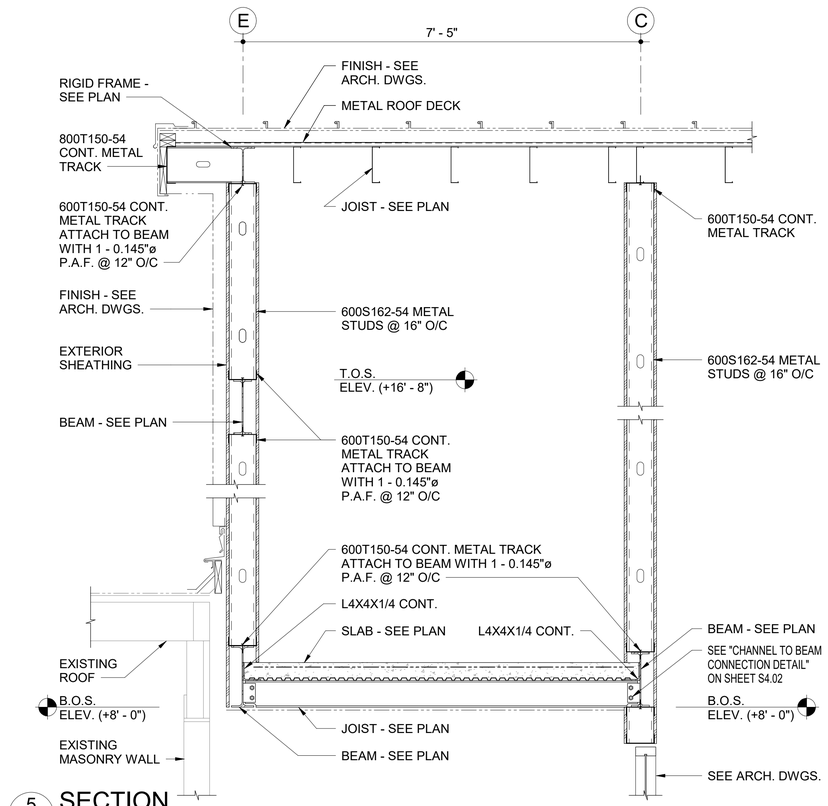
6 S5.01 **SECTION** 3/4" = 1'-0"



7 S5.01 **SECTION** 3/4" = 1'-0"



4 S5.01 **SECTION** 3/4" = 1'-0"



5 S5.01 **SECTION** 3/4" = 1'-0"

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73 MAXWELL LANE
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25 FEBRUARY 2025

FEBRUARY 25, 2025

FRAMING SECTIONS

JOB NUMBER 2312

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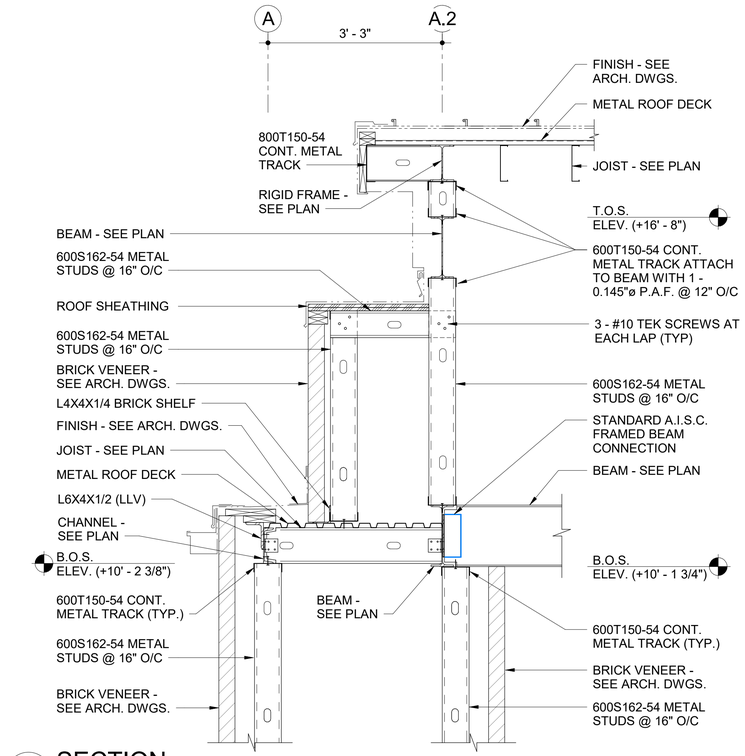
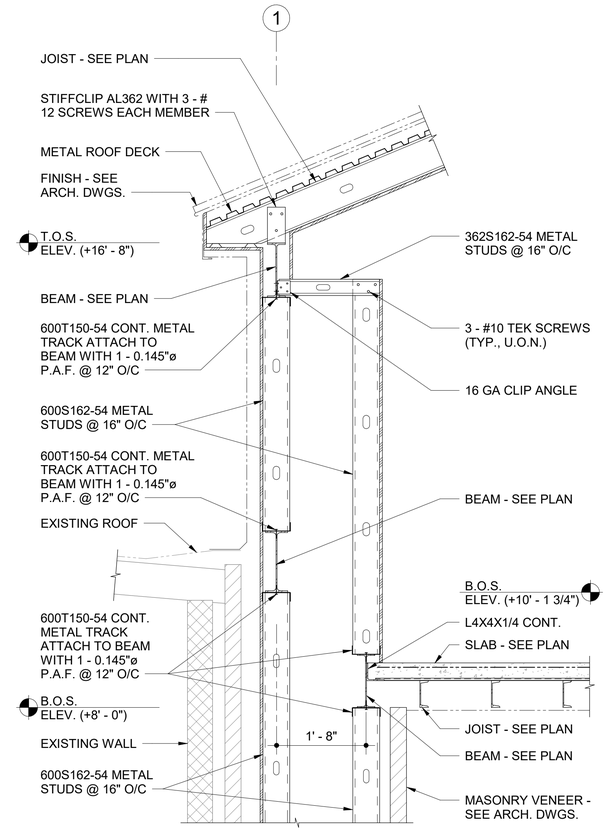
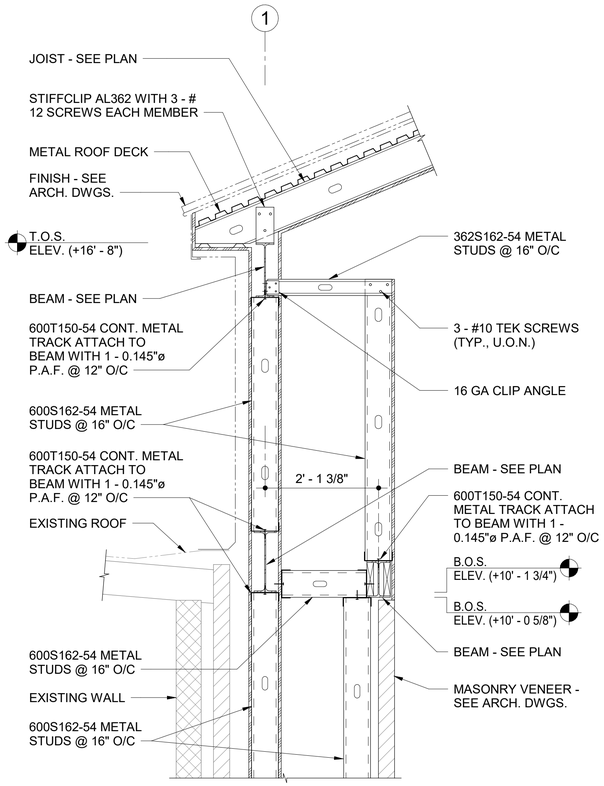


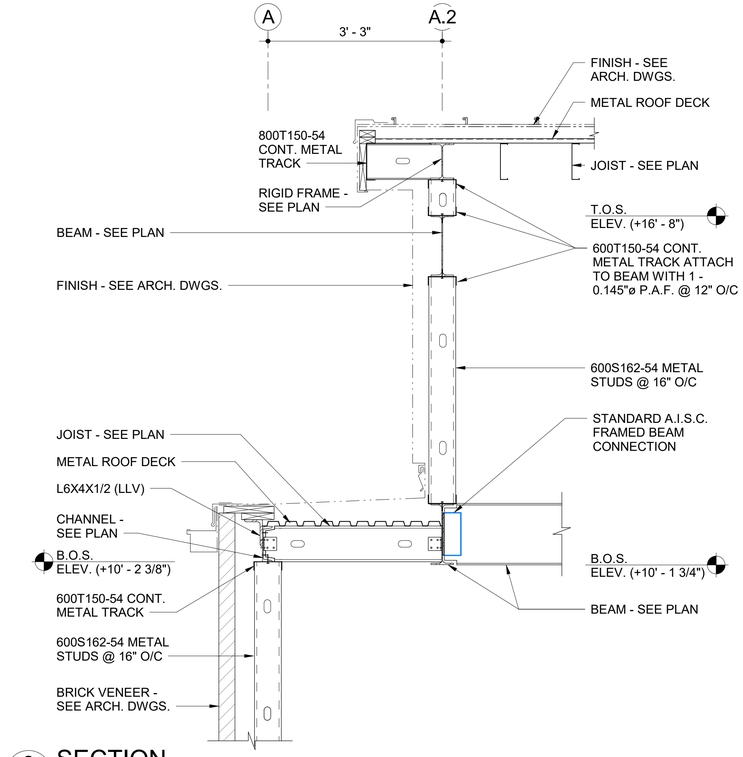
1 S5.02 **SECTION** 3/4" = 1'-0"



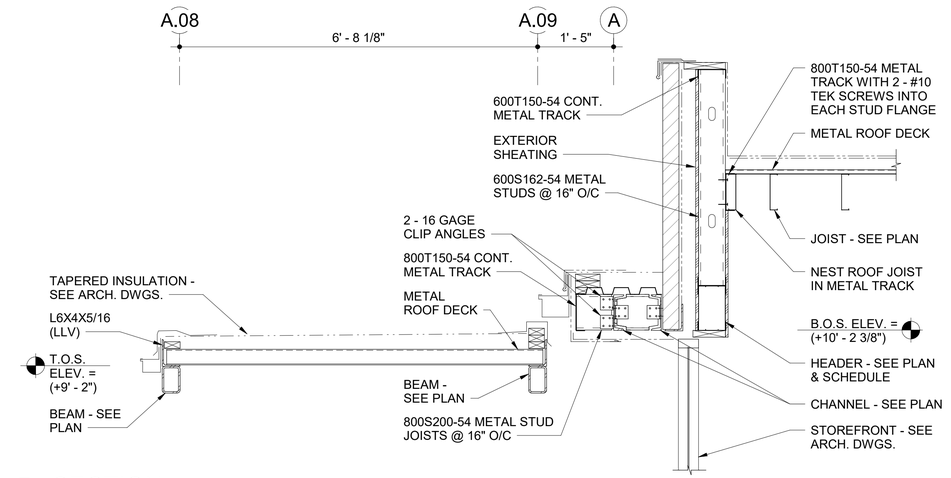
3 S5.02 **SECTION** 3/4" = 1'-0"



4 S5.02 **SECTION** 3/4" = 1'-0"



2 S5.02 **SECTION** 3/4" = 1'-0"



5 S5.02 **SECTION** 3/4" = 1'-0"

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SECURITY VESTIBULE & OFFICE ADDITION & ALTERATIONS FOR YATES ELEMENTARY SCHOOL

73 MAXWELL LANE
NEWPORT NEWS, VIRGINIA 23606

COMMONWEALTH OF VIRGINIA
25 FEBRUARY 2025
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FEBRUARY 25, 2025

FRAMING SECTIONS

JOB NUMBER 2312

S5.02

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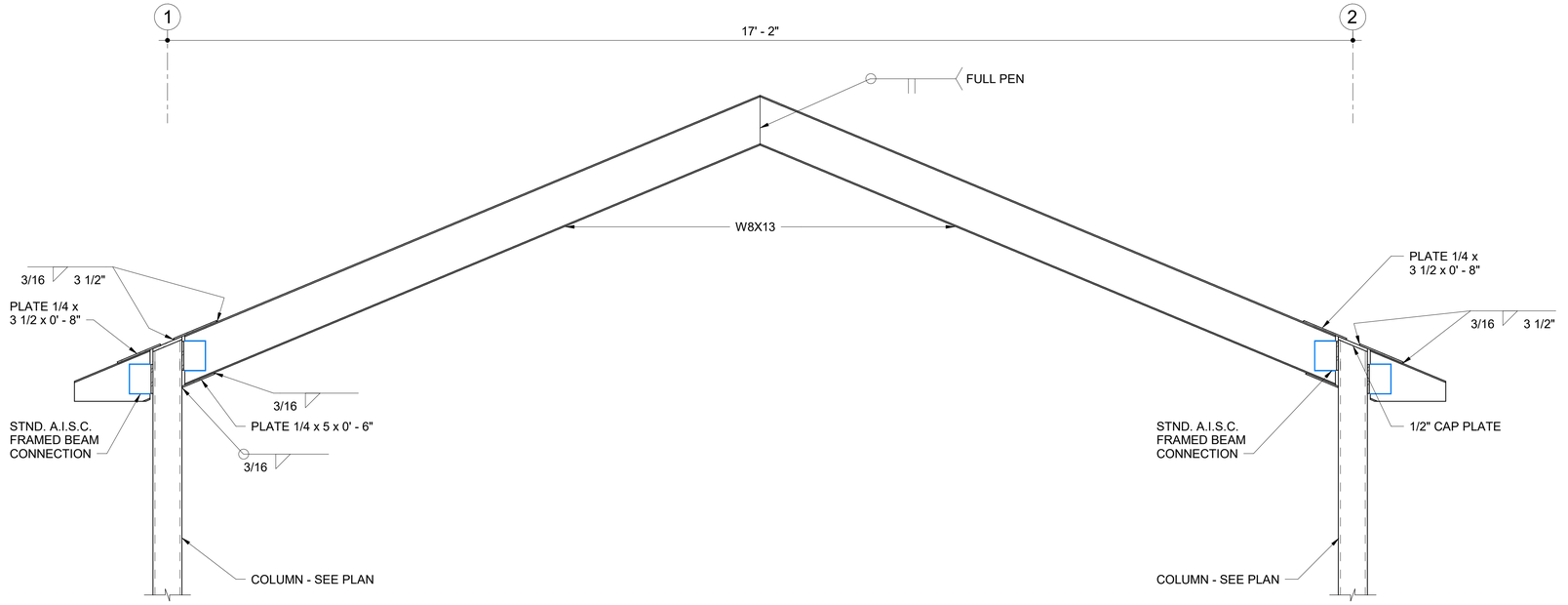
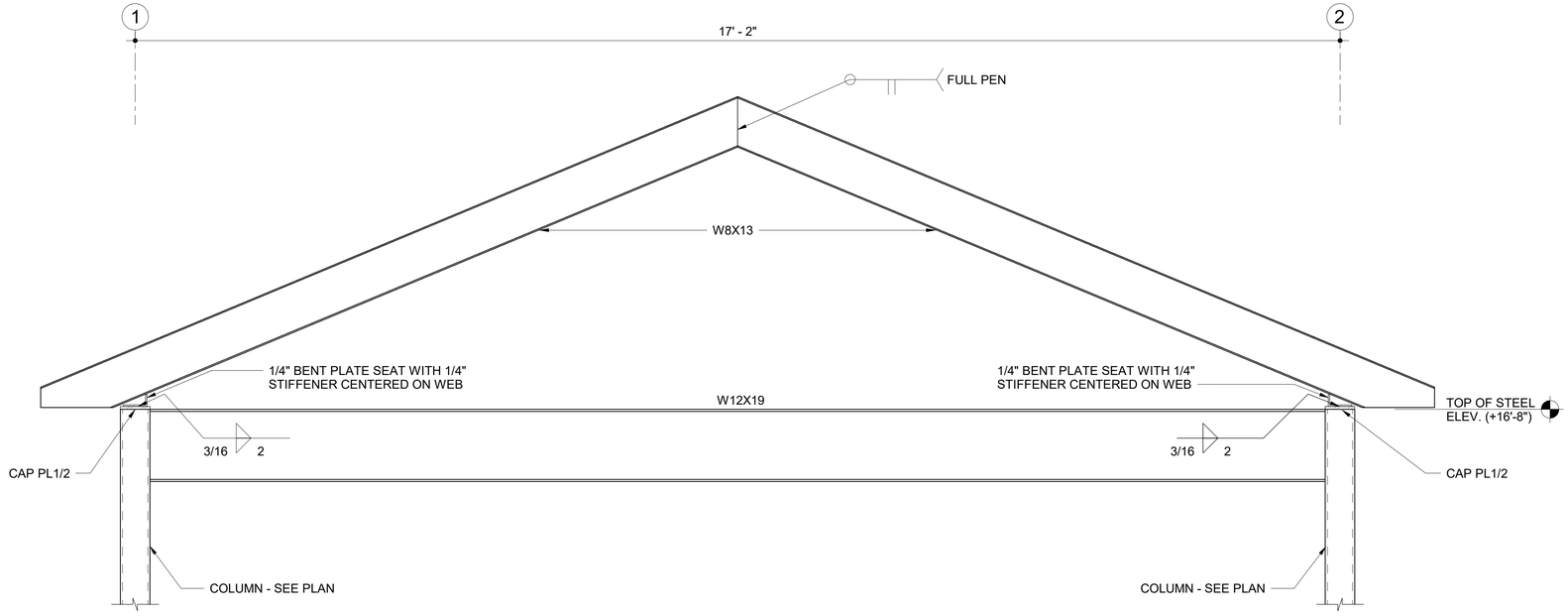


RIGID FRAME "A"

1" = 1'-0"



RIGID FRAME "B"

1" = 1'-0"

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SECURITY VESTIBULE &
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73 MAXWELL LANE
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25 FEBRUARY 2025
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PROFESSIONAL ENGINEER

FEBRUARY 25, 2025

RIGID FRAME ELEVATIONS
AND DETAILS

JOB NUMBER 2312

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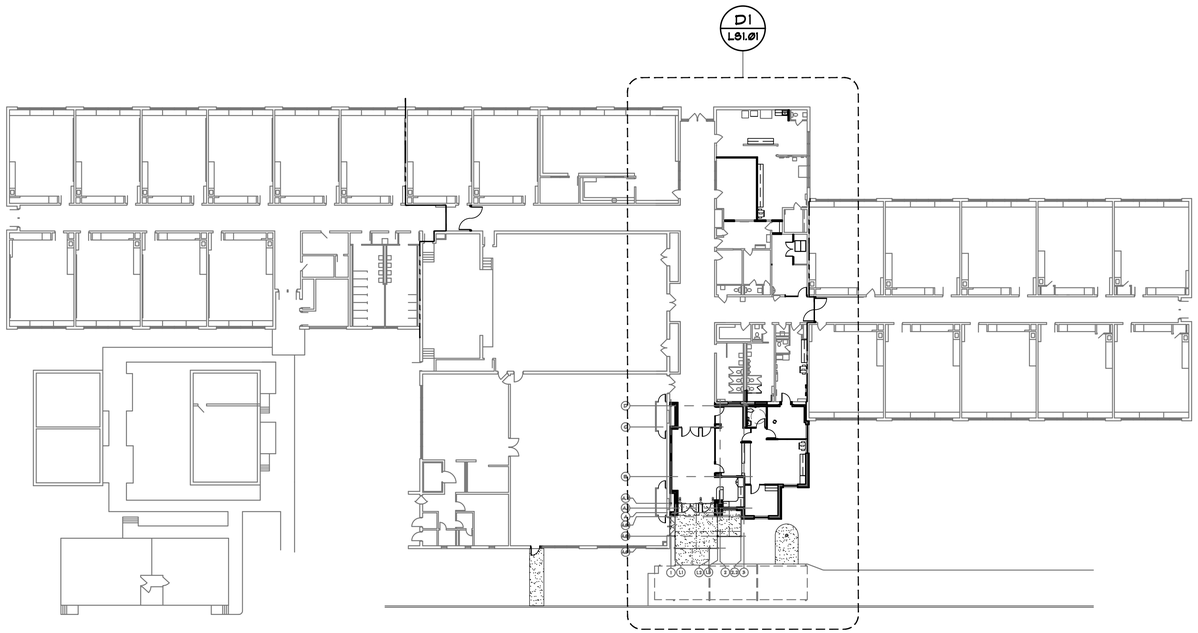
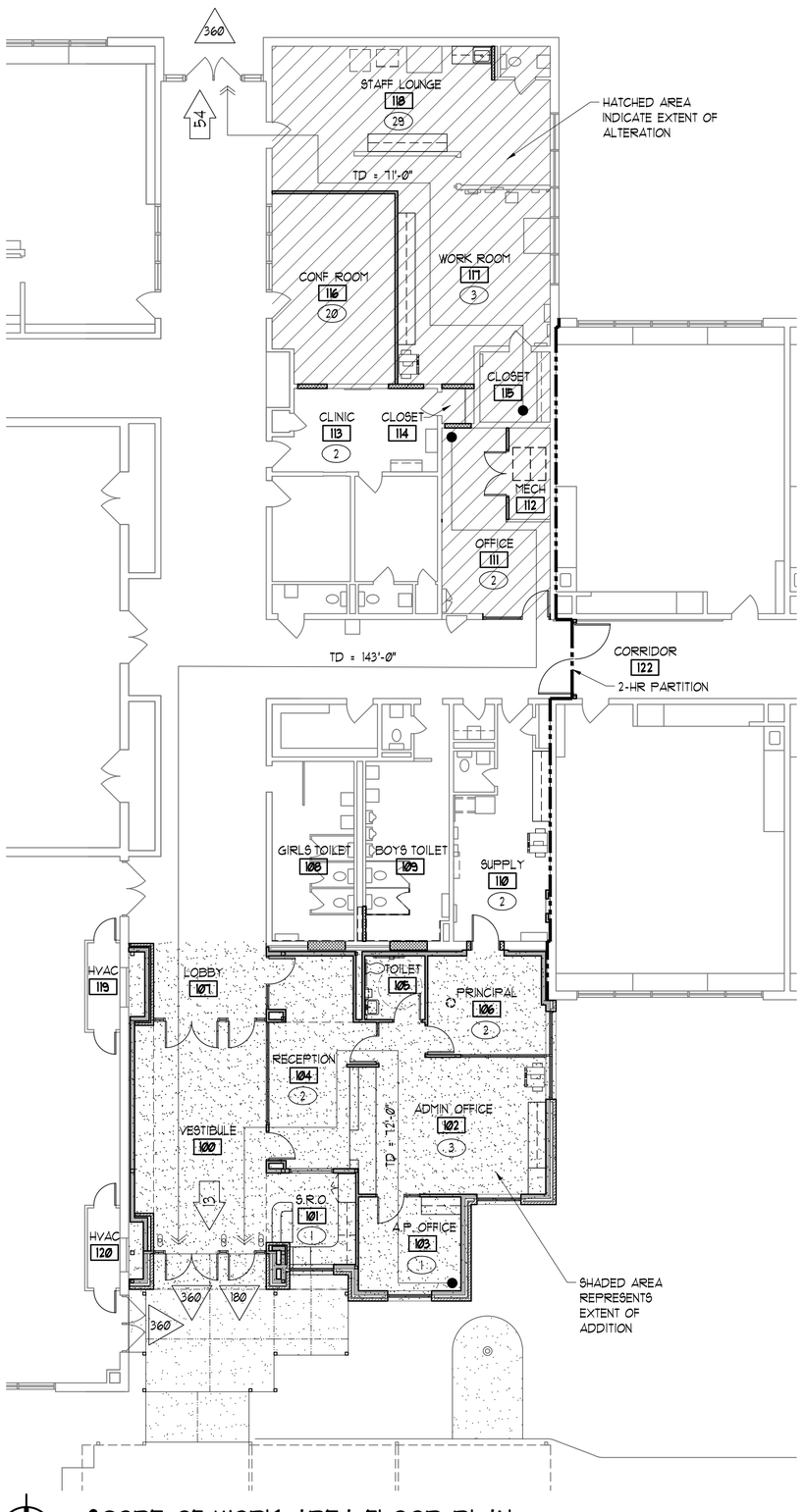
S6.01



OVERALL BUILDING FLOOR PLAN
SCALE: 1"=25'-0"

PLAN LEGEND

XX	CALCULATED OCCUPANCY
	TWO HOUR PARTITION
XX	EGRESS CAPACITY OF EXIT
XXX	EGRESS LOAD ON EXIT
TD	TRAVEL DISTANCE
FE	FIRE EXTINGUISHER LOCATION
XXX	ROOM NUMBER



SCOPE OF WORK AREA FLOOR PLAN
SCALE: 1/8"=1'-0"

HUDSON + ASSOCIATES
ARCHITECTS
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SECURITY VESTIBULE & OFFICE ADDITION & & ALTERATIONS FOR YATES ELEMENTARY SCHOOL

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NEWPORT NEWS, VIRGINIA 23606

COMMONWEALTH OF VIRGINIA
RICHARD S. CORNER
Lic. No. 007014
12-30-24
ARCHITECT

FEBRUARY 4, 2025

BUILDING CODE COMPLIANCE PLANS

JOB NUMBER 2312

LS1.01

BUILDING CODE & LIFE SAFETY COMPLIANCE NOTES

BUILDING CODE & LIFE SAFETY COMPLIANCE NOTES

1. PROJECT LOCATION, OWNER AND ADDRESSES:
   A) PROJECT LOCATION: YATES ELEMENTARY SCHOOL
      73 MAXWELL LANE, NEWPORT NEWS, VA 23606
      (757) 881-5450
   B) OWNER: THE SCHOOL BOARD OF NEWPORT NEWS PUBLIC SCHOOLS
      12465 WARWICK BOULEVARD, NEWPORT NEWS, VA 23606
      OWNER'S REPRESENTATIVE: MR. STEPHEN SMITH
      (757) 881-5024, x14129 STEPHEN.SMITH@NN.K12.VA.US

2. APPLICABLE BUILDING CODE, BUILDING HISTORY, SCOPE AND SIZE OF PROJECT:
   A) APPLICABLE BUILDING CODE:
      1) THE CURRENT 2018 EDITION OF THE VIRGINIA EXISTING BUILDING CODE (VEBC), ALONG WITH REFERENCES THEREIN, SHALL APPLY TO THIS PROJECT. IN ACCORDANCE WITH CHAPTER 6 OF THE VEBC, ALTERATIONS TO THE EXISTING BUILDING UNDER THIS PROJECT SHALL BE CONSIDERED LEVEL 2 (VEBC 601.2.2).
      2) THE CURRENT 2018 EDITION OF THE VIRGINIA CONSTRUCTION CODE (VCC), ALONG WITH REFERENCES THEREIN, SHALL APPLY TO THIS PROJECT, TO THE EXTENT OF NEW CONSTRUCTION.
   B) BUILDING HISTORY: THE ORIGINAL BUILDING WAS DESIGNED IN 1962 AND CONSTRUCTED IN 1963. THE FACILITY HAS UNDERGONE AN HVAC SYSTEM REPLACEMENT IN 2023.
   C) BUILDING AREA:
      1) ORIGINAL BUILDING (SINGLE FIRE AREA): 39,938 SF
      2) PROPOSED SECURE VESTIBULE ADDITION: 1,754 SF
      3) TOTAL BUILDING AREA, PROPOSED: 41,692 SF

3. OCCUPANCY CLASSIFICATION AND USE: PRIMARY USE GROUP: GROUP 'E,' EDUCATIONAL (VCC SECTION 305). NOTE THAT:
   A) ACCORDING TO VCC SECTION 303.1.3, ALL ROOMS OR SPACES USED FOR ASSEMBLY PURPOSE THAT ARE ASSOCIATED WITH A GROUP E OCCUPANCY ARE NOT CONSIDERED A SEPARATE OCCUPANCY.

4. SPECIAL REQUIREMENTS BASED ON OCCUPANCY: NO SPECIAL REQUIREMENTS SHALL APPLY UNDER THIS PROJECT.

5. GENERAL BUILDING HEIGHTS AND AREAS:
   A) BUILDING HEIGHT, VCC SECTION 504: THE EXISTING BUILDING IS ONE-STORY AND IS NOT SPRINKLERED.
   B) EXISTING AND PROPOSED BUILDING HEIGHT: SHALL BE IN COMPLIANCE WITH TABLES 504.3 AND 504.4 FOR ALLOWABLE HEIGHT ABOVE THE GRADE PLANE, LIMITED TO 55 FEET AND TWO STORIES, RESPECTIVELY, UNDER TYPE 2B (UNPROTECTED), NOT-SPRINKLED (NS).
   C) ALLOWABLE BUILDING AREA, SECTION 506: THIS SCHOOL HAS A SINGLE FIRE AREA 'A', OF 41,692 SF.

      THE PROPOSED SECURE VESTIBULE OF 1,754 SF ADDED TO THE SINGLE EXISTING FIRE AREA OF 39,938 SF, INCREASES THE FIRE AREA TO 41,692 SF. THIS SQUARE FOOTAGE EXCEEDS THE 14,500 SF BASIC AREA LIMIT UNDER TYPE 2B CONSTRUCTION FOR USE GROUP E, NON-SPRINKLERED. (TABLE 506.2) TWO FIRE SEPARATION PARTITIONS WILL BE ADDED TO CREATE THREE SEPARATE (3) FIRE AREAS. FIRE AREA 'A' WILL BE 10,378 SF, FIRE AREA 'B' WILL BE 20,250 SF, AND FIRE AREA 'C' WILL BE 11,049 SF. FIRE AREA 'B' INCLUDES THE NEW ADDITION AND EXCEEDS THE 14,500 SF AREA LIMIT; HOWEVER, THE BUILDING QUALIFIES FOR AN INCREASE BASED ON FRONTAGE (506.3.3) 73.7% OF THE PERIMETER OF FIRE AREA 'B' IS ACCESSIBLE TO A PUBLIC WAY. THE FRONTAGE CALCULATION ALLOWS FOR AN INCREASE OF 7,062 SF TO THE 14,500 SF BASIC AREA LIMIT, FOR A TOTAL ALLOWABLE SQUARE FOOTAGE OF 21,562 SF. AREA 'B' IS 20,250 SF.

6. TYPE OF CONSTRUCTION, VCC SECTION 602:
   A) PROPOSED TYPE OF CONSTRUCTION FOR ADDITION, VCC TABLE 601: ALL NEW CONSTRUCTION FOR ADDITIONS SHALL BE TYPE 2B, NON-COMBUSTIBLE, UNPROTECTED, AND NOT SPRINKLED.
   B) FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS, VCC TABLE 601:

	TYPE 2B
CONSTRUCTION FEATURE: UNPROTECTED:	
PRIMARY STRUCTURAL FRAME:	0 HOUR
LOAD-BEARING WALLS, EXTERIOR:	0 HOUR
LOAD-BEARING WALLS, INTERIOR:	0 HOUR
NON-BEARING WALLS, EXTERIOR:	0 HOUR
NON-BEARING WALLS, INTERIOR:	0 HOUR
FLOOR/CEILING CONSTRUCTION:	0 HOUR
ROOF/CEILING CONSTRUCTION:	0 HOUR

7. FIRE AND SMOKE PROTECTION FEATURES:
   A) FIRE WALLS, VCC SECTION 706: REQUIRED TO DIVIDE SINGLE EXISTING FIRE AREA INTO THREE SEPARATE FIRE AREAS. THE ADDITION IS CONSIDERED PART OF FIRE AREA 'B' FOR PURPOSE OF COMPLYING WITH VCC SECTION 506. FIRE AREA SEPARATIONS WILL BE CREATED ACROSS CORRIDORS BY NEW DUAL-EGRESS PAIRS OF DOORS WHERE INDICATED ON THE FLOOR PLAN. DOORS SHALL BE HELD OPEN BY MAGNETIC CONTACTS AND WILL RELEASE, CLOSE AND LATCH UPON ACTIVATION OF FIRE ALARM OR SMOKE DETECTOR ON EITHER SIDE OF DOORS. THE ADDITION SHALL BE CONSTRUCTED TO THE SAME DEGREE OF FIRE RESISTANCE AS THE FIRE AREA OF THE ORIGINAL BUILDING.
   B) FIRE BARRIERS, VCC SECTION 707: FIRE SEPARATED PARTITIONS AND DOORS TO BE 2-HOUR RATED, PER OCCUPANCY GROUP E.
   C) FIRE PARTITIONS, VCC SECTION 708:
      1) SECTION 708.1: CORRIDOR WALLS, AS REQUIRED UNDER VCC SECTION 1020.1 AND TABLE 1020.1, ARE REQUIRED TO HAVE A ONE (1)-HOUR FIRE RESISTANCE RATING FOR A GROUP E, EDUCATIONAL USE IN AN NON-SPRINKLERED BUILDING.
   D) SMOKE PARTITIONS AND COMPARTMENTATION DOORS, VCC SECTION 710: PARTITIONS AND DOORS TO BE 2-HOUR RATED, PER OCCUPANCY GROUP E. DOORS WILL BE SEALED TO RESIST FREE PASSAGE OF SMOKE AND BE AUTOMATIC CLOSING UPON THE DETECTION OF SMOKE.
   E) PENETRATIONS, VCC SECTION 714: DUCT, PIPE, CONDUIT AND CABLE PENETRATIONS THROUGH FIRE-RATED PARTITIONS AND SMOKE BARRIERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH VCC SECTION 714. REFER TO FIRESTOPPING DETAILS ELSEWHERE ON THE DRAWINGS AND IN THE SPECIFICATIONS.
   F) OPENING PROTECTIVES, VCC SECTION 716: ALL INTERIOR CORRIDOR PARTITION OPENINGS AT INTERIOR OFFICES, WORKROOM AND LOUNGE SHALL COMPLY WITH TABLE 1021.1 FOR FIRE-RATING OF NEW WINDOW AND DOOR OPENINGS IN CORRIDOR WALLS.

8. INTERIOR FINISHES:
   A) INTERIOR WALL AND CEILING FINISH REQUIREMENTS, VCC TABLE 803.13: INTERIOR WALL AND CEILING FINISHES SHALL BE CLASSIFIED AS FOLLOWS FOR THIS NON-SPRINKLERED E, EDUCATION USE GROUP PROJECT:
      1) INTERIOR EXITS AND EXIT PASSAGEWAYS, INCLUDING VESTIBULES: CLASS A
      2) CORRIDORS AND ENCLOSURES FOR EXIT ACCESS: CLASS A
      3) ROOMS AND ENCLOSED SPACES: CLASS C
   B) INTERIOR FLOOR FINISH, VCC SECTION 804:
      1) GENERAL: ALL FLOORS SHALL BE NON-COMBUSTIBLE OR NON-FIBROUS, I.E., SOLID MATERIALS.
      2) MINIMUM CRITICAL RADIANT FLUX, VCC SECTION 804.4.2: CLASS II REQUIRED UNDER USE GROUP 'E,' EDUCATION.

9. FIRE PROTECTION AND LIFE SAFETY SYSTEMS:
   A) PORTABLE FIRE EXTINGUISHERS, VCC SECTION 906:
   B) FIRE ALARM AND DETECTION SYSTEM, VCC SECTION 907: AN EXISTING SYSTEM IS PROVIDED THROUGHOUT THE ENTIRE SCHOOL IN ACCORDANCE WITH VCC SECTIONS 907.2.3, 907.3.2.2, AND 907.6. THIS SYSTEM SHALL BE EXTENDED INTO THE ADDITION AND ALTERED AREAS WITH NEW PULL STATIONS AND NOTIFICATION DEVICES. NOTWITHSTANDING OTHER REQUIREMENTS, THE SYSTEM SHALL INCLUDE THE FOLLOWING FEATURES:
      1) UPDATING THE EXISTING CENTRAL ANNUNCIATOR PANEL INSIDE THE BUILDING'S PRIMARY ENTRANCE LOBBY.
      2) STROBES AND HORNS SHALL BE PROVIDED IN THE ADDITION AND ALTERED AREAS.

10. MEANS OF EGRESS:
   A) OCCUPANT LOAD, VCC SECTION 1004: REFER TO THE CODE COMPLIANCE/LIFE SAFETY PLAN FOR ROOM OCCUPANT LOADS. OCCUPANT LOADS SHALL BE BASED ON THE FOLLOWING FACTORS, IN ACCORDANCE WITH VCC TABLE 1004.5:
      1) BUSINESS AREAS (AT WORKROOM, OFFICES): 1 PER 150 SF GROSS
      2) UNCONCENTRATED ASSEMBLY (AT LOUNGE) WITH TABLES AND CHAIRS: PER 15 SF NET
   B) MEANS OF EGRESS SIZING, VCC SECTION 1005:
      1) STAIRS, VCC SECTION 1005.3.1: NOT APPLICABLE.
      2) OTHER EGRESS COMPONENTS, VCC SECTION 1005.3.2: WIDTH OF CORRIDORS AND DOORS SHALL BE BASED ON OCCUPANT LOAD SERVED MULTIPLIED BY 0.2 INCHES/OCCUPANT.
      3) MINIMUM CORRIDOR WIDTH, VCC TABLE 1020.2: 6'-0" (72 INCHES, USE GROUP E).
      4) MINIMUM DOOR WIDTH (FOR ACCESSIBLE ENTRANCES AND EXITS): 36 INCHES (3'-0")
   C) NUMBER OF EXITS, VCC SECTION 1006:
      1) THE NUMBER OF EXITS HALL BE A SHOWN ON THE CODE COMPLIANCE/LIFE SAFETY PLAN. THE EGRESS CAPACITY (IN NUMBER OF PERSONS) OF EACH EXIT IS ALSO SHOWN ON THE PLAN.
      2) THE MAXIMUM COMMON PATH OF TRAVEL DISTANCE TO AN EXIT SHALL NOT EXCEED 75 FEET FOR NON-SPRINKLERED E, EDUCATIONAL USE GROUP FACILITIES (VCC TABLE 1006.2.1).
   D) ARRANGEMENT OF EXITS (VCC SECTION 1007): EXITS ARE SUFFICIENT IN NUMBER TO MEET EXIT TRAVEL DISTANCE LIMITS AND ARE ARRANGED IN ACCORDANCE WITH REQUIREMENTS OF THIS SECTION.
   E) MEANS OF EGRESS ILLUMINATION, VCC SECTION 1008:
      1) ILLUMINATION ALONG PATHS OF EGRESS AND AT EXTERIOR DISCHARGE POINTS SHALL COMPLY WITH REQUIREMENTS OF VCC SECTION 1008.2.1.
      2) EMERGENCY POWER FOR ILLUMINATION SHALL COMPLY WITH REQUIREMENTS OF SECTION 1008.3.
   F) ACCESSIBLE MEANS OF EGRESS, VCC SECTION 1009: THE ADDITION SHALL COMPLY WITH THE REQUIREMENTS OF THIS SECTION.
   G) EXIT IDENTIFICATION, VCC SECTION 1013: THE ADDITION SHALL COMPLY WITH THE REQUIREMENTS OF THIS SECTION.
   H) EXIT ACCESS, VCC SECTION 1016: ALL EXITS ARE ARRANGED AS NEEDED FOR EGRESS DIRECTLY FROM ANY GIVEN SPACE.
   I) EXIT TRAVEL DISTANCE, VCC SECTION 1017: THE MAXIMUM TRAVEL DISTANCE FOR GROUP E, EDUCATION USE LISTED UNDER TABLE 1017.2 IS 200 FEET IN A NON-SPRINKLERED BUILDING. THE NUMBER AND ARRANGEMENT OF EXITS ALLOW ALL AREAS OF THIS BUILDING AND ADDITION TO COMPLY.
   J) CORRIDORS, VCC SECTION 1020:
      1) ACCORDING TO VCC TABLE 1020.1, A ONE (1)-HOUR FIRE RESISTANCE RATING AT CORRIDORS IS REQUIRED IN A GROUP E, EDUCATION USE BUILDING THAT ARE NOT EQUIPPED THROUGHOUT WITH A SPRINKLER SYSTEM.
      2) CORRIDOR WIDTH, CAPACITY AND FEATURES OF CONSTRUCTION, INCLUDING OPENINGS AND DOORS, COMPLY WITH OTHER REQUIREMENTS OF THIS SECTION.

11. ACCESSIBILITY, VCC CHAPTER 11:
   GENERAL: THE ADDITION SHALL MEET THE REQUIREMENTS FOR ACCESSIBILITY BY PERSONS WITH INFIRMITIES OR HANDICAPS. ACCESSIBLE ENTRANCES, OPENINGS, PASSAGEWAYS AND RESTROOM FACILITIES ARE INCLUDED THROUGHOUT THE DESIGN. THE ALTERATIONS SHALL ALSO MEET THE REQUIREMENTS FOR ACCESSIBILITY UNDER THIS SECTION, AND SHALL NOT LESSEN THE DEGREE OF NON-COMPLIANCE WHERE EXISTING, UNALTERED FEATURES ARE LEFT IN PLACE.
   A) ACCESSIBLE ROUTE, VCC SECTION 1104: THERE IS AN ACCESSIBLE ROUTE INTO THE BUILDING'S PRIMARY PUBLIC ENTRANCE FROM PROPERLY HC-DESIGNATED PARKING SPACES.
   B) PARKING AND PASSENGER LOADING SPACES, VCC SECTION 1106: THE NUMBER OF HC-DESIGNATED PARKING SPACES, INCLUDING VAN-ACCESSIBLE, MEETS OR EXCEEDS THAT REQUIRED BY THE SECTION.
   C) OTHER FEATURES AND FACILITIES, VCC SECTION 1109:
      1) WHERE PROVIDED UNDER THIS PROJECT, THE NEW RESTROOM SHALL BE FULLY ACCESSIBLE, INCLUDING TOILET ACCESSORIES.

12. INTERIOR ENVIRONMENT:
   A) GENERAL: THE INTERIOR OF THE ADDITION AND ALTERED AREAS SHALL BE EQUIPPED WITH INTERIOR LIGHTING, HEATING, VENTILATION AND AIR CONDITIONING, PLUMBING SYSTEMS AND SAFETY SIGNAGE IN ACCORDANCE WITH ALL REQUIREMENTS OF CHAPTER 12.
   B) VENTILATION, VCC SECTION 1202:
      1) MECHANICAL VENTILATION AND EXHAUST SYSTEMS: SHALL BE PROVIDED IN ACCORDANCE WITH VCC SECTION 1202.6
   C) SPACE TEMPERATURE CONTROLS, VCC SECTION 1203: THE ADDITION AND ALTERED AREAS' HVAC SYSTEMS SHALL BE EQUIPPED THROUGHOUT WITH DIGITAL THERMOSTATIC CONTROL DEVICES.
   D) LIGHTING, VCC SECTION 1204:
      1) INTERIOR AND EXTERIOR LIGHTING SHALL BE PROVIDED THROUGHOUT THE ADDITION AND ALTERED AREAS IN ACCORDANCE WITH REQUIREMENTS OF THIS SECTION.
      2) ARTIFICIAL LIGHTING IS PROVIDED THROUGHOUT THE ADDITION INTERIOR, ALTERED AREAS AND AT EXTERIOR EXITS.
      3) EMERGENCY EGRESS LIGHTING: SHALL BE PROVIDED AT THE ADDITION AND ALTERED AREAS IN ACCORDANCE WITH VCC SECTIONS 1204.5 AND 1008.1.
   E) TOILET AND BATHROOM REQUIREMENTS, VCC SECTION 1209: THE REQUIREMENTS FOR THIS SECTION ARE MET BY EXISTING TOILET FACILITIES THROUGHOUT THE SCHOOL.

13. STRUCTURAL DESIGN & LOAD DATA (VCC CHAPTER 16):
   A) FACILITY RISK CATEGORY (VCC TABLE 1604.5): CATEGORY III
   B) UNIFORMLY DISTRIBUTED LIVE LOADS (VCC TABLE 1607.1):
      1) LOBBIES AND CORRIDORS: 100 PSF
      2) ROOFS, UNOCCUPIED: 20 PSF UNIFORM; 300 LBS. CONCENTRATED AT MAINTENANCE AREAS.
      3) OFFICES, WORKROOMS: 50 PSF

   C) BASIC WIND SPEED FOR NEWPORT NEWS, VA (1609.3, USED IN LATERAL LOAD/UPLIFT CALCULATIONS):
      1) 2018 VCC 1609.3(2): 115 MPH (ASCE 7-16)
      2) THE PROPOSED BUILDING SITE DOES NOT LIE IN AN AREA SUBJECT TO REQUIREMENTS FOR HURRICANE WINDBORNE DEBRIS RESISTANCE.
      3) LATERAL WIND PRESSURE (COMPONENTS AND CLADDING): 40.0 PSF
      4) ROOF WIND UPLIFT PRESSURE:
   A) MAIN ROOF AREA (ZONE 1): 30.0 PSF
   B) ROOF AREA PERIMETER (ZONE 2): 50.5 PSF
   C) ROOF AREA CORNERS (ZONE 3): 75.9 PSF
      5) WIND LOAD FOR PERIMETER EDGE METAL:
   A) ZONE 2 (ROOF EDGE PERIMETER, VERT. LOAD DIRECTION): 52.2 PSF
   B) ZONE 3 (ROOF EDGE CORNERS, VERT. LOAD DIRECTION): 78.6 PSF
   C) ZONE 4 (WALL EDGE PERIMETER, HORIZ. LOAD DIRECTION): 33.7 PSF
   D) ZONE 5 (WALL EDGE CORNERS, HORIZ. LOAD DIRECTION): 41.7 PSF
      6) RAINFALL LOAD: 3.5 IN./HR. MAX. (VCC SECTION 1611.1).

   REFER ALSO TO STRUCTURAL DESIGN CRITERIA ON SHEET S0.1 OF THE STRUCTURAL DRAWINGS.

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SECURITY VESTIBULE & OFFICE ADDITION & & ALTERATIONS FOR YATES ELEMENTARY SCHOOL

73 MAXWELL LANE
NEWPORT NEWS, VIRGINIA 23606

FEBRUARY 4, 2025

CODE NOTES

JOB NUMBER 2312

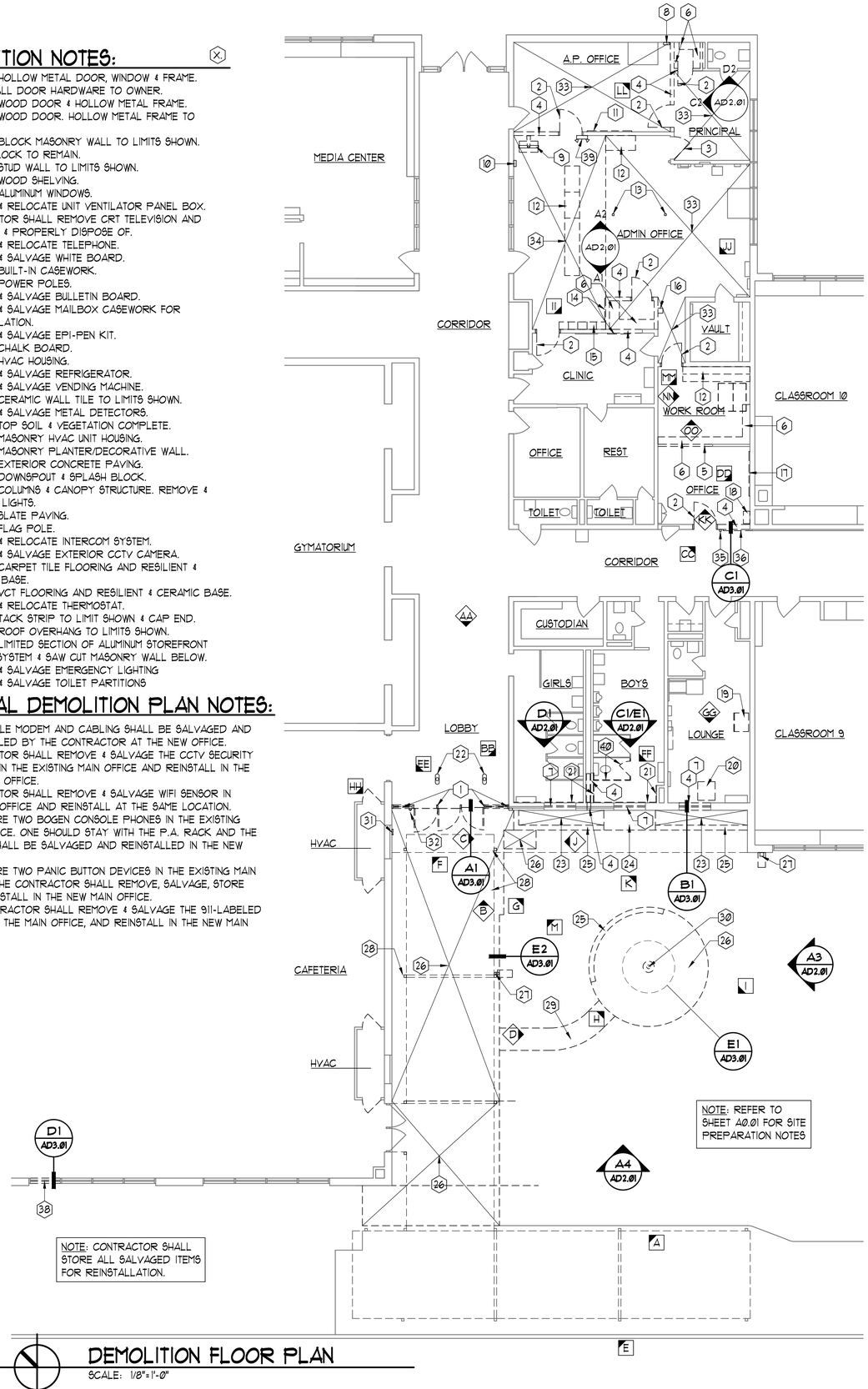
LS1.02

DEMOLITION NOTES:

1. REMOVE HOLLOW METAL DOOR, WINDOW & FRAME. RETURN ALL DOOR HARDWARE TO OWNER.
2. REMOVE WOOD DOOR & HOLLOW METAL FRAME.
3. REMOVE WOOD DOOR. HOLLOW METAL FRAME TO REMAIN.
4. REMOVE BLOCK MASONRY WALL TO LIMITS SHOWN. TOOTH BLOCK TO REMAIN.
5. REMOVE STUD WALL TO LIMITS SHOWN.
6. REMOVE WOOD SHELVING.
7. REMOVE ALUMINUM WINDOWS.
8. REMOVE & RELOCATE UNIT VENTILATOR PANEL BOX.
9. CONTRACTOR SHALL REMOVE CRT TELEVISION AND MOUNTING & PROPERLY DISPOSE OF.
10. REMOVE & RELOCATE TELEPHONE.
11. REMOVE & SALVAGE WHITE BOARD.
12. REMOVE BUILT-IN CASEWORK.
13. REMOVE POWER POLES.
14. REMOVE & SALVAGE BULLETIN BOARD.
15. REMOVE & SALVAGE MAILBOX CASEWORK FOR REINSTALLATION.
16. REMOVE & SALVAGE EPI-PEN KIT.
17. REMOVE CHALK BOARD.
18. REMOVE HVAC HOUSING.
19. REMOVE & SALVAGE REFRIGERATOR.
20. REMOVE & SALVAGE VENDING MACHINE.
21. REMOVE CERAMIC WALL TILE TO LIMITS SHOWN.
22. REMOVE & SALVAGE METAL DETECTORS.
23. REMOVE TOP SOIL & VEGETATION COMPLETE.
24. REMOVE MASONRY HVAC UNIT HOUSING.
25. REMOVE MASONRY PLANTER/DECORATIVE WALL.
26. REMOVE EXTERIOR CONCRETE PAVING.
27. REMOVE DOWNSPOUT & SPLASH BLOCK.
28. REMOVE COLUMNS & CANOPY STRUCTURE. REMOVE & SALVAGE LIGHTS.
29. REMOVE SLATE PAVING.
30. REMOVE FLAG POLE.
31. REMOVE & RELOCATE INTERCOM SYSTEM.
32. REMOVE & SALVAGE EXTERIOR CCTV CAMERA.
33. REMOVE CARPET TILE FLOORING AND RESILIENT & CERAMIC BASE.
34. REMOVE VCT FLOORING AND RESILIENT & CERAMIC BASE.
35. REMOVE & RELOCATE THERMOSTAT.
36. REMOVE TACK STRIP TO LIMIT SHOWN & CAP END.
37. REMOVE ROOF OVERHANG TO LIMITS SHOWN.
38. REMOVE LIMITED SECTION OF ALUMINUM STOREFRONT WINDOW SYSTEM & SAW CUT MASONRY WALL BELOW.
39. REMOVE & SALVAGE EMERGENCY LIGHTING
40. REMOVE & SALVAGE TOILET PARTITIONS

GENERAL DEMOLITION PLAN NOTES:

1. COX CABLE MODEM AND CABLING SHALL BE SALVAGED AND REINSTALLED BY THE CONTRACTOR AT THE NEW OFFICE.
2. CONTRACTOR SHALL REMOVE & SALVAGE THE CCTV SECURITY CAMERA IN THE EXISTING MAIN OFFICE AND REINSTALL IN THE NEW MAIN OFFICE.
3. CONTRACTOR SHALL REMOVE & SALVAGE WIFI SENSOR IN EXISTING OFFICE AND REINSTALL AT THE SAME LOCATION.
4. THERE ARE TWO BOGEN CONSOLE PHONES IN THE EXISTING MAIN OFFICE. ONE SHOULD STAY WITH THE P.A. RACK AND THE OTHER SHALL BE SALVAGED AND REINSTALLED IN THE NEW OFFICE.
5. THERE ARE TWO PANIC BUTTON DEVICES IN THE EXISTING MAIN OFFICE. THE CONTRACTOR SHALL REMOVE, SALVAGE, STORE AND REINSTALL IN THE NEW MAIN OFFICE.
6. THE CONTRACTOR SHALL REMOVE & SALVAGE THE 911-LABELED PHONE IN THE MAIN OFFICE, AND REINSTALL IN THE NEW MAIN OFFICE.



DEMOLITION FLOOR PLAN

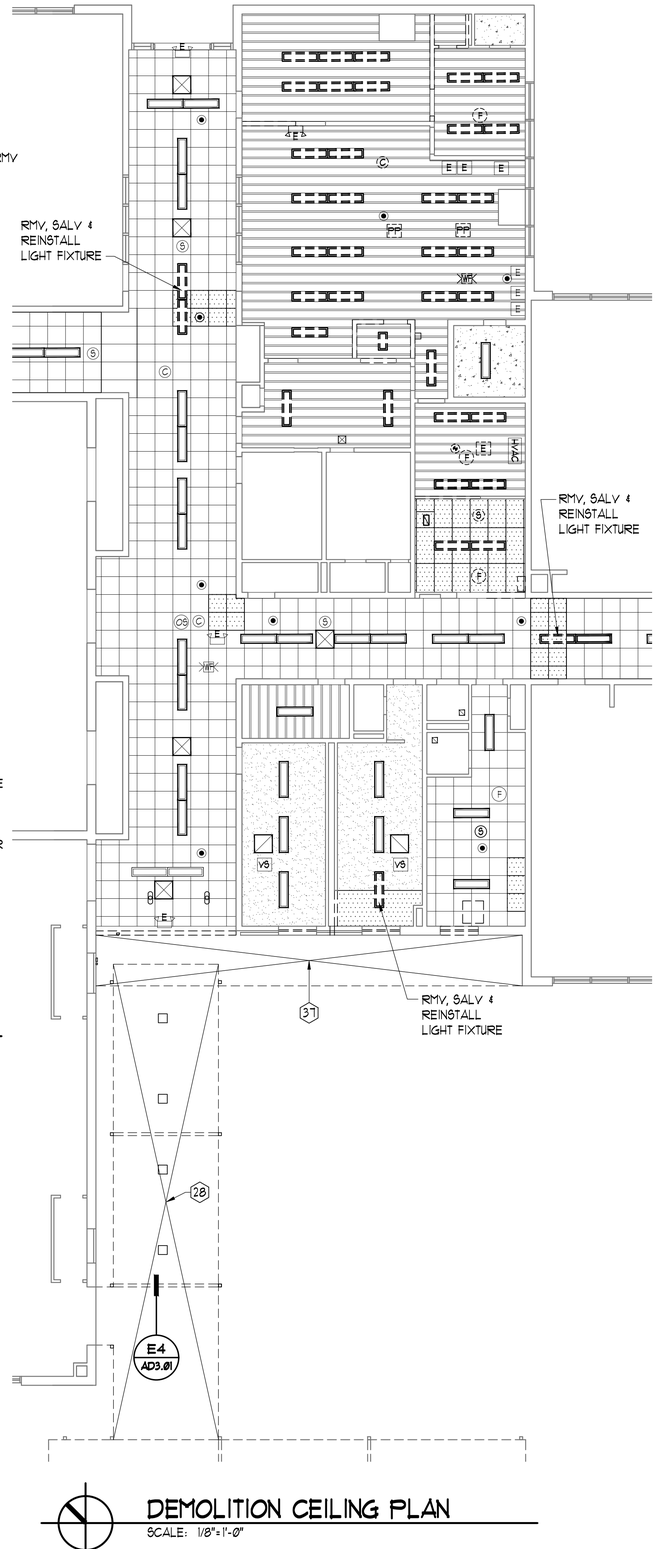
SCALE: 1/8"=1'-0"

DEMOLITION CEILING LEGEND:

- 2X2 CEILING GRID TO REMAIN
- RMV 2X2 CEILING GRID
- CONCRETE PANEL CEILING TO REMAIN
- GWB CEILING TO REMAIN
- EXPOSED FENESTRA LS DECK JOISTS & RMV CEILING PANELS BETWEEN THEM
- 1X4 LIGHT FIXTURE TO REMAIN
- REMOVE 1X4 LIGHT FIXTURE
- REMOVE & SALVAGE LIGHT FIXTURE
- SMOKE SENSOR TO REMAIN
- REMOVE & SALVAGE SMOKE SENSOR
- SUPPLY AIR DIFFUSER TO REMAIN
- RETURN AIR DIFFUSER TO REMAIN
- REMOVE RETURN AIR DIFFUSER
- CCTV CAMERA TO REMAIN
- REMOVE & SALVAGE CCTV SENSOR
- SPEAKER TO REMAIN
- REMOVE & SALVAGE SPEAKER
- WIFI SENSOR TO REMAIN
- REMOVE & SALVAGE WIFI SENSOR
- ELECTRICAL OUTLET/CONDUIT TO REMAIN
- REMOVE ELECTRICAL OUTLET/CONDUIT
- EMERGENCY LIGHT TO REMAIN
- REMOVE & SALVAGE EMERGENCY LIGHT
- FIRE ALARM STROBE TO REMAIN
- REMOVE & SALVAGE FIRE ALARM STROBE
- OCCUPANCY SENSOR TO REMAIN
- REMOVE & SALVAGE OCCUPANCY SENSOR
- REMOVE POWER POLE
- WALL-MOUNTED SPEAKER TO REMAIN
- VALVE BOX TO REMAIN
- HVAC UNIT TO REMAIN

DEMOLITION PLAN LEGEND:

- REMOVE BLOCK WALL TO LIMITS SHOWN
- REMOVE WALL MOUNTED OBJECTS
- REMOVE SEGMENT OF WINDOW GLAZING & MULLION
- REMOVE DOOR AND FRAME
- DOOR TO REMAIN
- REMOVE & SALVAGE SMART BOARD
- REMOVE WALL MOUNTED TELEVISION
- REMOVE WINDOW & FRAME
- WALL TO REMAIN
- PHOTO REFERENCE
- DEMOLITION WORK NOTE SYMBOL



DEMOLITION CEILING PLAN

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

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SECURITY VESTIBULE & OFFICE ADDITION & & ALTERATIONS FOR YATES ELEMENTARY SCHOOL

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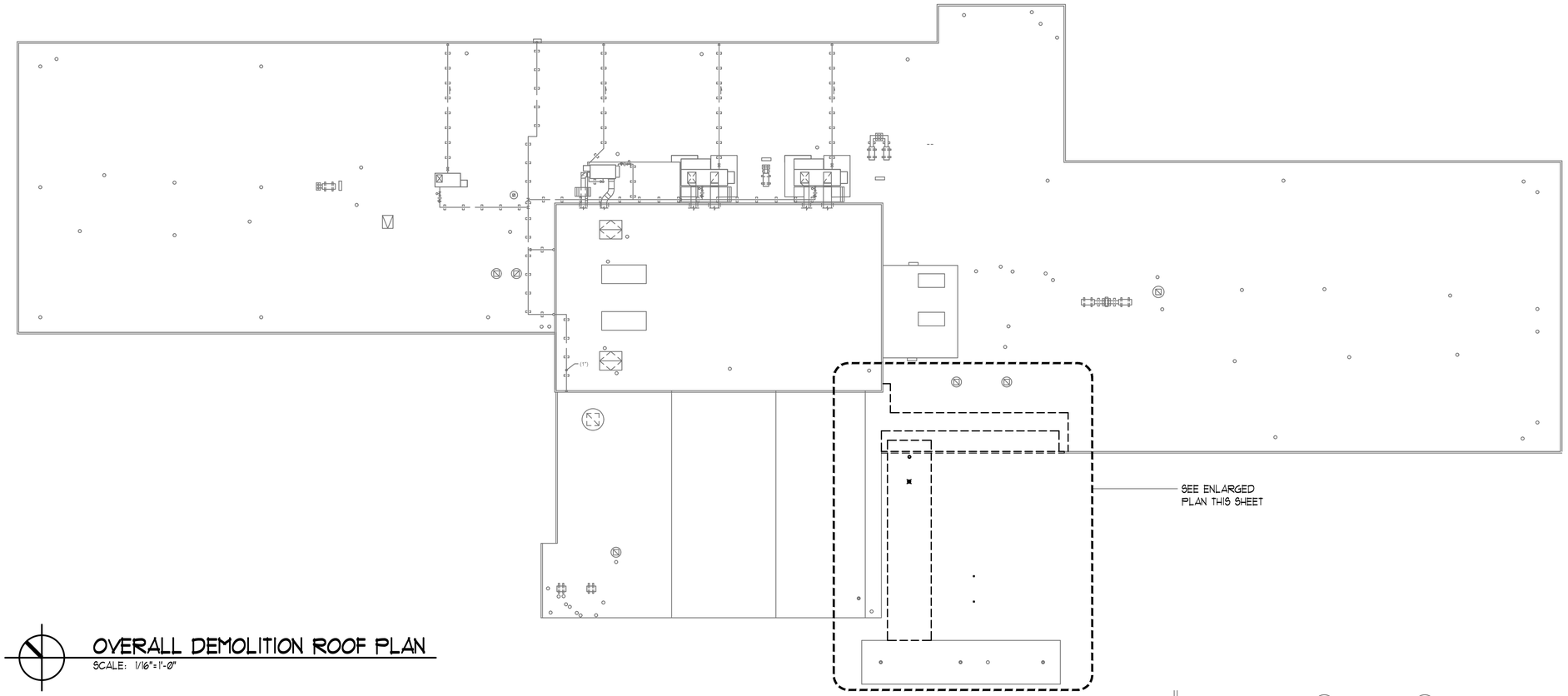
COMMONWEALTH OF VIRGINIA
RICHARD S. CORNER
Lic. No. 007014
12-30-24
ARCHITECT

FEBRUARY 4, 2025

DEMOLITION FLOOR PLAN & REFLECTED CEILING PLAN

JOB NUMBER 2312

AD1.01



OVERALL DEMOLITION ROOF PLAN

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

GENERAL DEMO NOTES

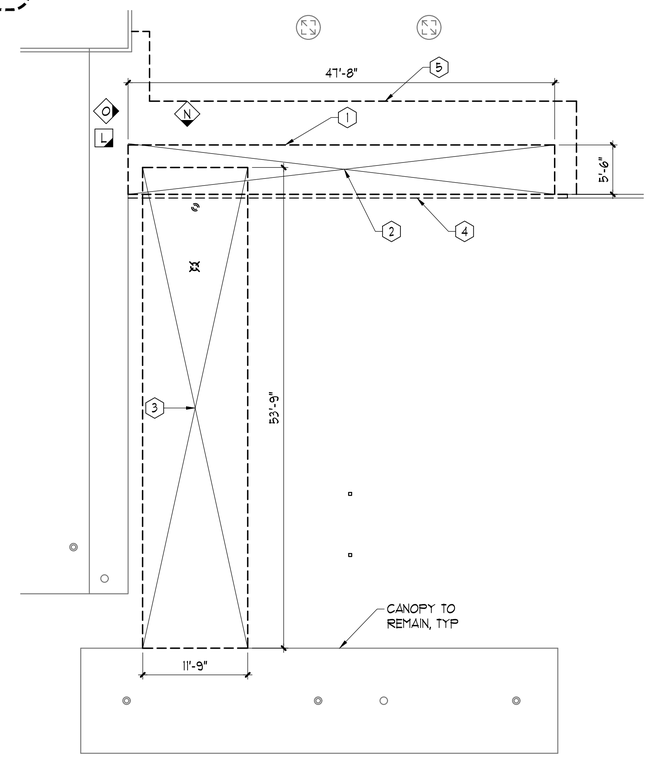
1. IN GENERAL, ITEMS SHOWN DASHED ARE TO BE REMOVED. COORDINATE WITH DEMOLITION PLAN LEGEND AND NOTES.
2. DEMOLITION NOTES DIRECTED TO AN "X" ACROSS AN AREA INDICATES THE NOTE APPLIES TO THE AREA DESCRIBED BY THE "X".
3. PROTECT ALL MATERIALS & EQUIPMENT TO REMAIN THROUGHOUT THE CONSTRUCTION PROCESS. DAMAGE TO THESE ITEMS IS THE RESPONSIBILITY OF THE CONTRACTOR. REPAIRS OR REPLACEMENTS SHALL BE DONE AT NO EXPENSE TO THE OWNER.
4. (X) THIS SYMBOL INDICATES A REFERENCE TO A PHOTOGRAPH OF EXISTING CONDITIONS AT ROOF INDEXED & SHOWN ON SHEET AD2.02 & AD2.03.

ROOF DEMO NOTES (X)

1. CUT ROOF AT LINE INDICATED ON PLAN
2. REMOVE BUILT-UP ROOF, 2" RIGID INSULATION & 1 1/2" DEEP LONG SPAN METAL DECK
3. REMOVE WALKWAY CANOPY COMPLETE TO LIMITS SHOWN
4. REMOVE GUTTER
5. CUT MEMBRANE ROOFING SYSTEM AND PREP FOR REPLACEMENT

ROOF DEMO LEGEND

- VTR TO REMAIN
- REMOVE ROOF DRAIN
- REMOVE MEMBRANE VENT
- ROOF DRAIN TO REMAIN
- MEMBRANE VENT TO REMAIN
- HVAC UNIT TO REMAIN
- EXHAUST FAN TO REMAIN
- COMPRESSOR UNIT & PENETRATION HOUSING TO REMAIN
- ROOF HATCH TO REMAIN
- (B) REMOVE & SALVAGE BOILER FLUE
- (X) DEMOLITION NOTE
- (X) PHOTO REFERENCE
- XXX ROOF TOP EQUIPMENT TAG



ENLARGED DEMOLITION ROOF PLAN

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

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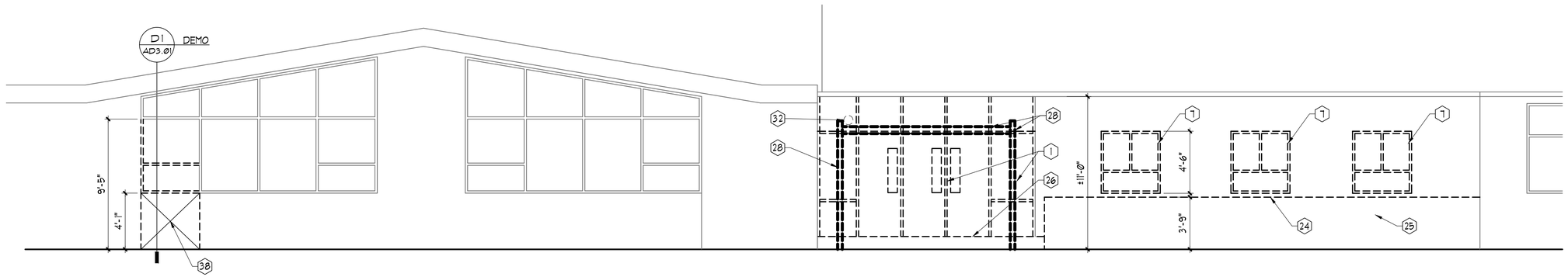
ARCHITECT

FEBRUARY 4, 2025

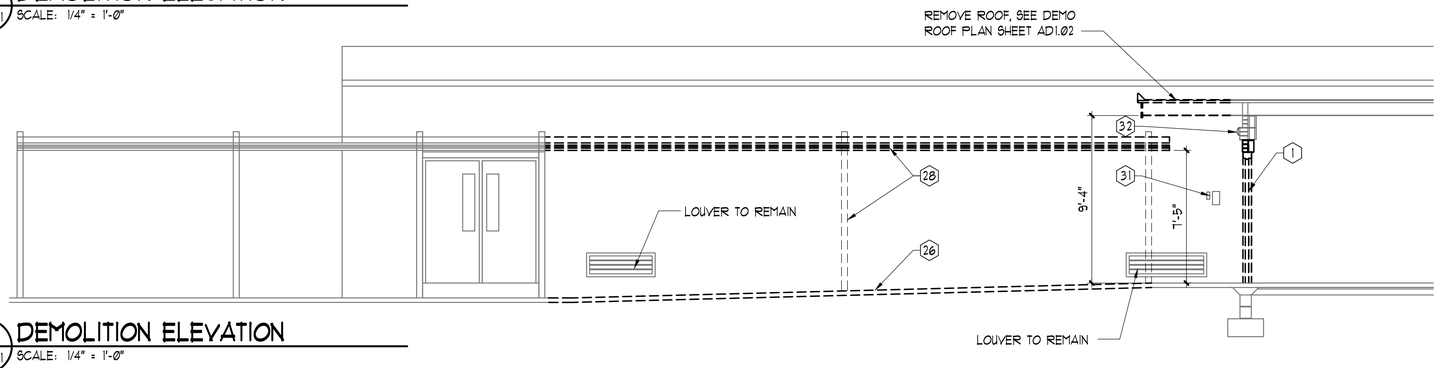
DEMOLITION ROOF PLAN

JOB NUMBER 2312

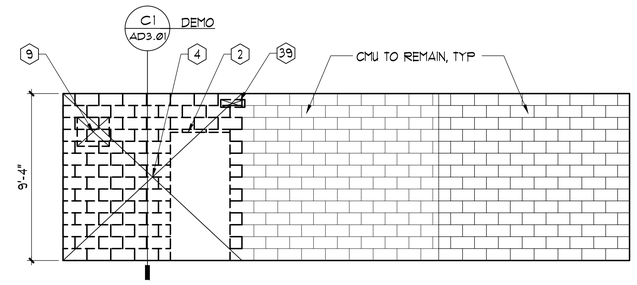
AD1.02



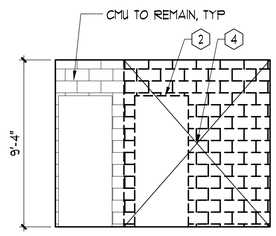
A4 AD2.Ø1 **DEMOLITION ELEVATION**
SCALE: 1/4" = 1'-Ø"



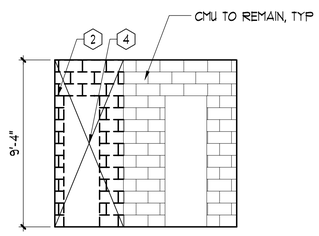
A3 AD2.Ø1 **DEMOLITION ELEVATION**
SCALE: 1/4" = 1'-Ø"



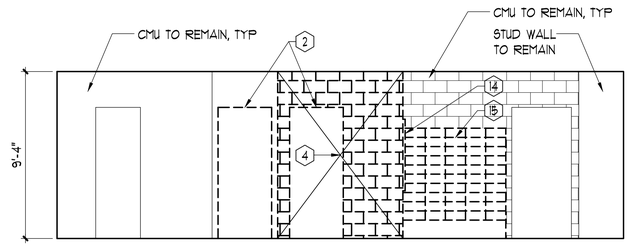
A2 AD2.Ø1 **DEMOLITION ELEVATION**
SCALE: 1/4" = 1'-Ø"



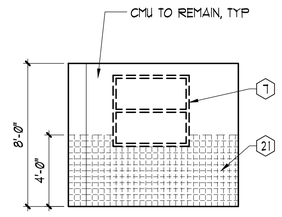
C2 AD2.Ø1 **DEMOLITION ELEVATION**
SCALE: 1/4" = 1'-Ø"



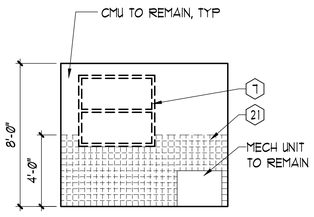
D2 AD2.Ø1 **DEMOLITION ELEVATION**
SCALE: 1/4" = 1'-Ø"



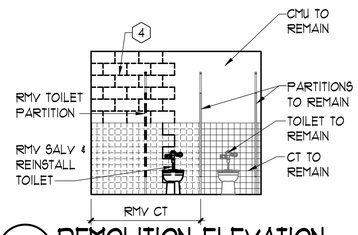
A1 AD2.Ø1 **DEMOLITION ELEVATION**
SCALE: 1/4" = 1'-Ø"



C1 AD2.Ø1 **DEMOLITION ELEVATION**
SCALE: 1/4" = 1'-Ø"



D1 AD2.Ø1 **DEMOLITION ELEVATION**
SCALE: 1/4" = 1'-Ø"



E1 AD2.Ø1 **DEMOLITION ELEVATION**
SCALE: 1/4" = 1'-Ø"

DEMOLITION NOTES:

1. REMOVE HOLLOW METAL DOOR, WINDOW & FRAME. RETURN ALL DOOR HARDWARE TO OWNER.
2. REMOVE WOOD DOOR & HOLLOW METAL FRAME.
3. REMOVE WOOD DOOR. HOLLOW METAL FRAME TO REMAIN.
4. REMOVE BLOCK MASONRY WALL TO LIMITS SHOWN. TOOTH BLOCK TO REMAIN.
5. REMOVE STUD WALL TO LIMITS SHOWN.
6. REMOVE WOOD SHELVING.
7. REMOVE ALUMINUM WINDOWS.
8. REMOVE & RELOCATE UNIT VENTILATOR PANEL BOX.
9. CONTRACTOR SHALL REMOVE CRT TELEVISION AND MOUNTING & PROPERLY DISPOSE OF.
10. REMOVE & RELOCATE TELEPHONE.
11. REMOVE & SALVAGE WHITE BOARD.
12. REMOVE BUILT-IN CASEWORK.
13. REMOVE POWER POLES.
14. REMOVE & SALVAGE BULLETIN BOARD.
15. REMOVE & SALVAGE MAILBOX CASEWORK FOR REINSTALLATION.
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17. REMOVE CHALK BOARD.
18. REMOVE HVAC HOUSING.
19. REMOVE & SALVAGE REFRIGERATOR.
20. REMOVE & SALVAGE VENDING MACHINE.
21. REMOVE CERAMIC WALL TILE TO LIMITS SHOWN.
22. REMOVE & SALVAGE METAL DETECTORS.
23. REMOVE TOP SOIL & VEGETATION COMPLETE.
24. REMOVE MASONRY HVAC UNIT HOUSING.
25. REMOVE MASONRY PLANTER/DECORATIVE WALL.
26. REMOVE EXTERIOR CONCRETE PAVING.
27. REMOVE DOWNSPOUT & SPLASH BLOCK.
28. REMOVE COLUMNS & CANOPY STRUCTURE. REMOVE & SALVAGE LIGHTS.
29. REMOVE SLATE PAVING.
30. REMOVE FLAG POLE.
31. REMOVE & RELOCATE INTERCOM SYSTEM.
32. REMOVE & SALVAGE EXTERIOR CCTV CAMERA.
33. REMOVE CARPET TILE FLOORING AND RESILIENT & CERAMIC BASE.
34. REMOVE VCT FLOORING AND RESILIENT & CERAMIC BASE.
35. REMOVE & RELOCATE THERMOSTAT.
36. REMOVE TACK STRIP TO LIMIT SHOWN & CAP END.
37. REMOVE ROOF OVERHANG TO LIMITS SHOWN.
38. REMOVE LIMITED SECTION OF ALUMINUM STOREFRONT WINDOW SYSTEM & SAW CUT MASONRY WALL BELOW.
39. REMOVE & SALVAGE EMERGENCY LIGHTING
40. REMOVE & SALVAGE TOILET PARTITIONS

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SECURITY VESTIBULE &
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& ALTERATIONS FOR
YATES ELEMENTARY SCHOOL

73 MAXWELL LANE
NEWPORT NEWS, VIRGINIA 23606

COMMONWEALTH OF VIRGINIA
RICHARD N. CORNER
Lic. No. 007014
12-30-24
ARCHITECT

FEBRUARY 4, 2025

DEMOLITION
ELEVATIONS

JOB NUMBER 2312

AD2.01

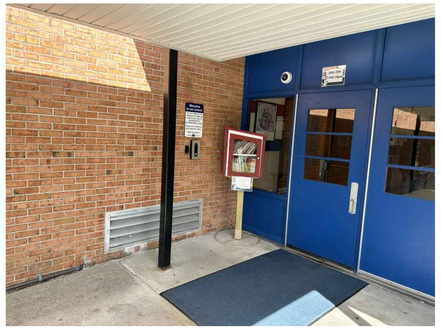
A PHOTO REFERENCE

E PHOTO REFERENCE

I PHOTO REFERENCE

M PHOTO REFERENCE

B PHOTO REFERENCE



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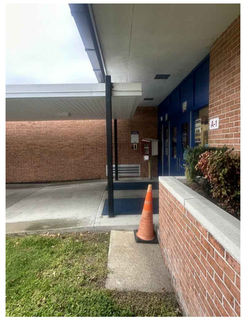

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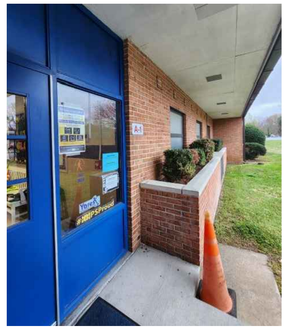
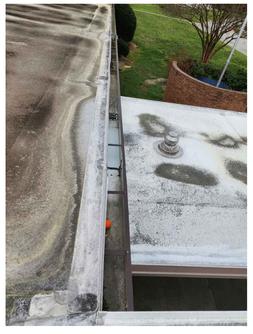


C PHOTO REFERENCE

G PHOTO REFERENCE

K PHOTO REFERENCE



O PHOTO REFERENCE

D PHOTO REFERENCE

H PHOTO REFERENCE

L PHOTO REFERENCE

PHOTO REFERENCE NOTES

1. ☒ THIS SYMBOL INDICATES A REFERENCE TO A PHOTOGRAPH OF EXISTING CONDITIONS SHOWN ON DEMOLITION SHEETS.
2. DEMOLITION PHOTOS ARE INTENDED TO SUPPLEMENT THE DEMOLITION PLANS & AID THE CONTRACTOR IN EVALUATING EXISTING CONDITIONS.
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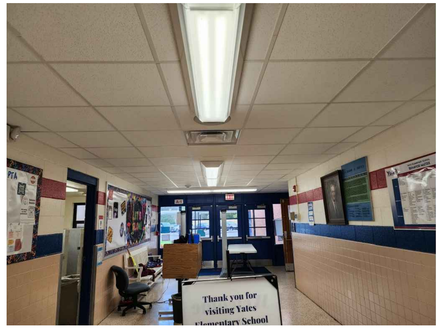
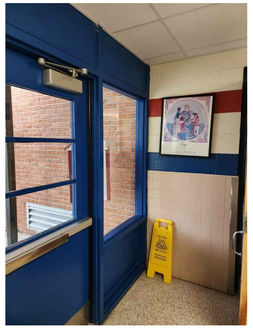
PHOTO REFERENCE

JOB NUMBER 2312

AD2.02



AA PHOTO REFERENCE



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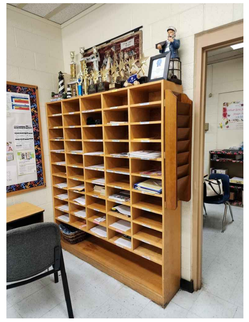

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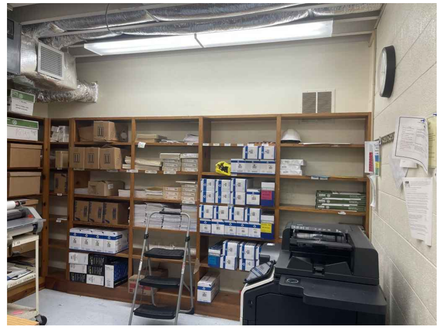

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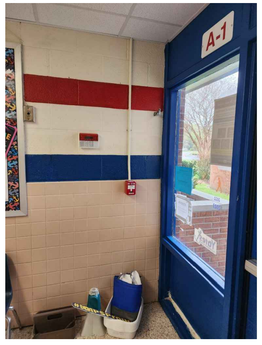

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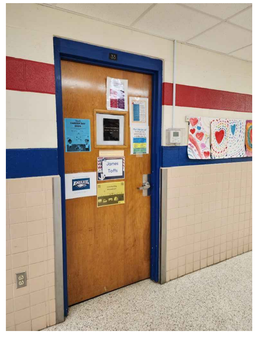
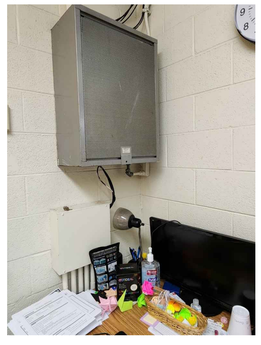
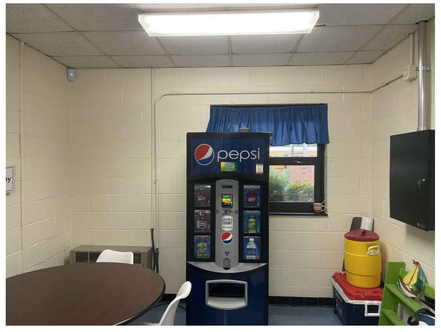


CC PHOTO REFERENCE



DD PHOTO REFERENCE

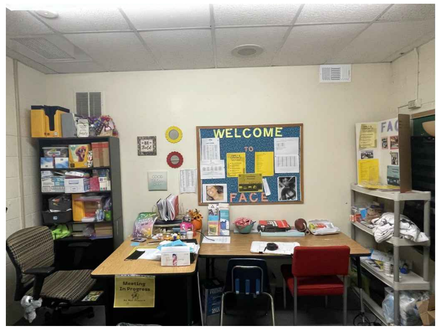
FF PHOTO REFERENCE



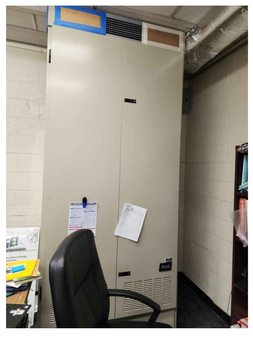
GG PHOTO REFERENCE

HH PHOTO REFERENCE

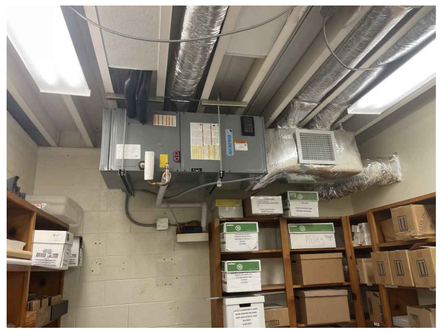
JJ PHOTO REFERENCE



KK PHOTO REFERENCE



LL PHOTO REFERENCE



NN PHOTO REFERENCE

OO PHOTO REFERENCE

PHOTO REFERENCE NOTES

1. ⊠ THIS SYMBOL INDICATES A REFERENCE TO A PHOTOGRAPH OF EXISTING CONDITIONS SHOWN ON DEMOLITION SHEETS.
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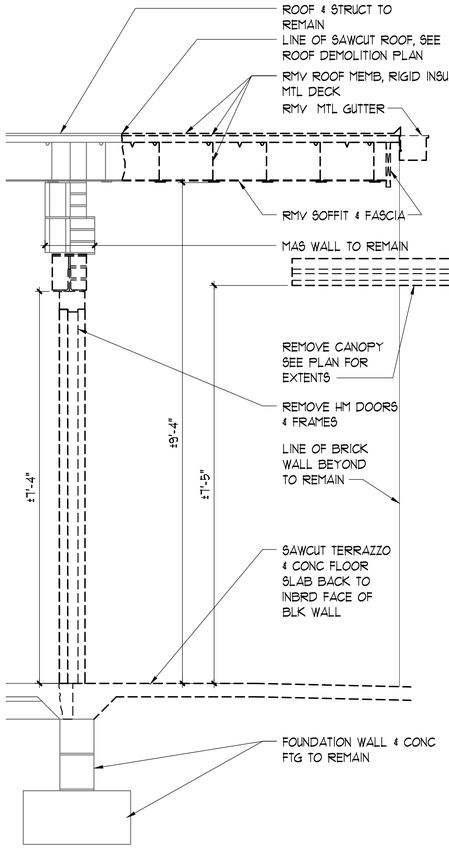
FEBRUARY 4, 2025

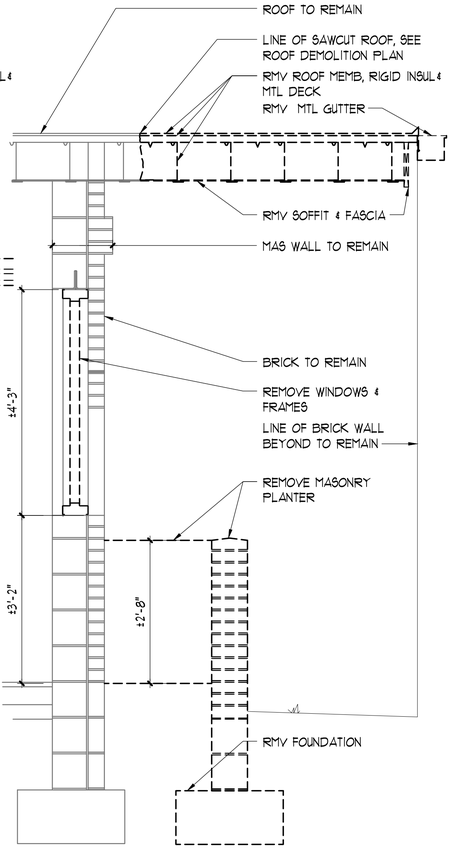
PHOTO REFERENCE

JOB NUMBER 2312

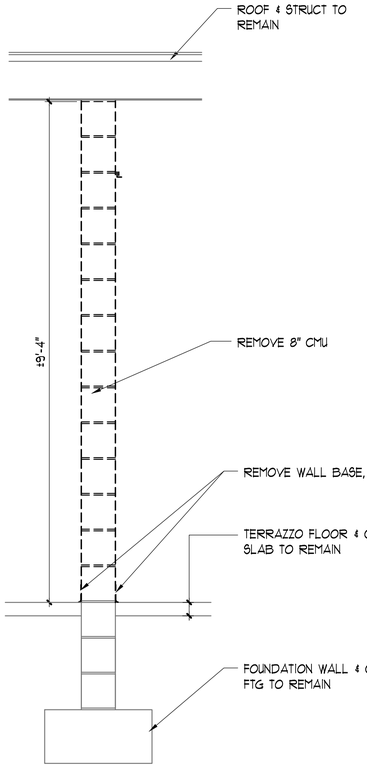
AD2.03



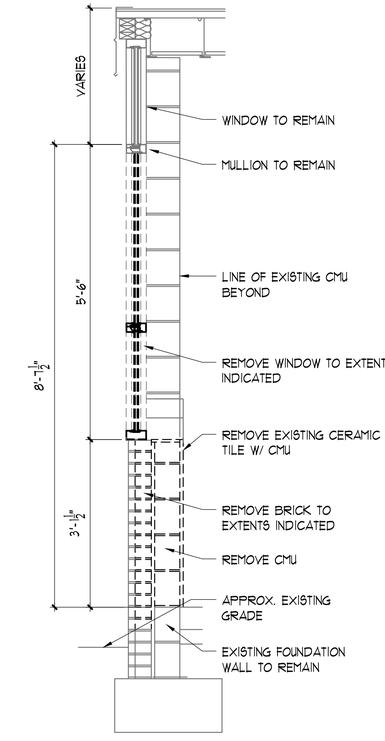
A1 SECTION DEMO
SCALE: 3/4"=1'-0"



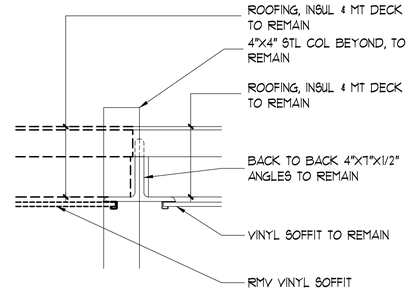
B1 SECTION DEMO
SCALE: 3/4"=1'-0"



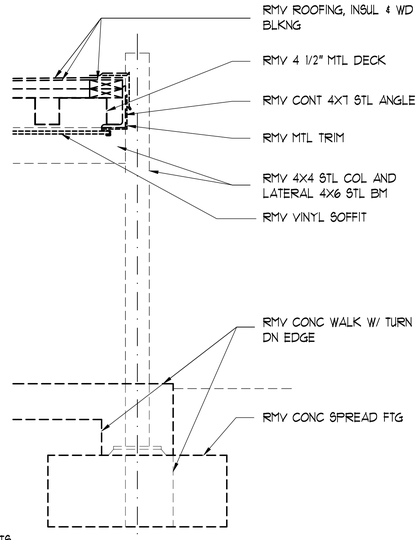
C1 SECTION DEMO
SCALE: 3/4"=1'-0"



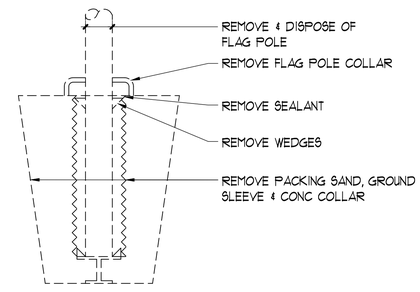
D1 SECTION DEMO
SCALE: 3/4"=1'-0"



E4 DETAIL
SCALE: 1 1/2"=1'-0"



E2 DETAIL
SCALE: 1"=1'-0"



E1 DETAIL
SCALE: 1 1/2"=1'-0"

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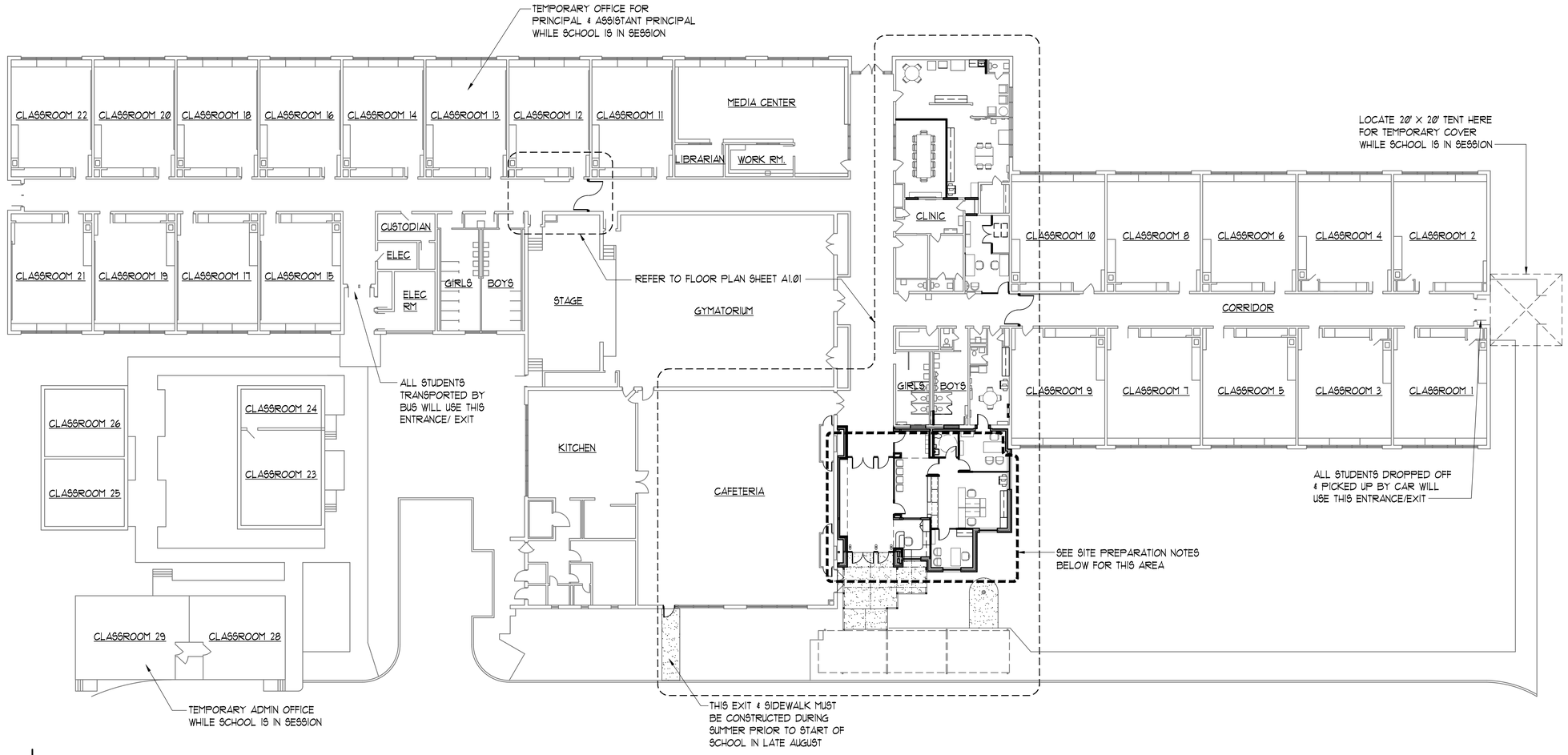
FEBRUARY 4, 2025

DEMOLITION SECTIONS & DETAILS

JOB NUMBER 2312

AD3.01



OVERALL FLOOR PLAN

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

SITE PREPARATION NOTES:

1. IN ACCORDANCE WITH THE GEOTECHNICAL REPORT RECOMMENDATIONS APPENDED TO SPECIFICATION SECTION 011000, SUMMARY OF WORK, THE CONTRACTOR SHALL UNDERCUT THE BUILDING ADDITION SITE, PLUS FIVE FEET BEYOND UNENCUMBERED EDGES (I.E, WITHOUT THE EXISTING BUILDING OR FOUNDATION OBSTRUCTING) TO A MINIMUM DEPTH OF TWO FEET BELOW EXISTING GRADE AFTER REMOVING THE UPPER 4-6 INCHES OF TOPSOIL AND/OR SIDEWALKS, TO A NET DEPTH OF 2'-6" BELOW TOP OF EXISTING GRADE. DO NOT UNDERCUT EXISTING FOOTINGS AND VOID/MINIMIZE ANY UNDERCUT OF EXISTING FLOOR SLAB.
2. FILL AND COMPACT THE ENTIRE BUILDING PAD TO AN ELEVATION NOT LESS THAN FOUR INCHES BELOW EXISTING FINISH FLOOR OF THE BUILDING. FILL AND COMPACT IN 8-INCH LIFTS, USING SELECT SOIL MATERIALS IN ACCORDANCE WITH THE GEOTECHNICAL REPORT, CLASSIFIED AS A 'STRUCTURAL' FILL. ACCEPTABLE MATERIALS CLASSIFIED AS 'GENERAL' FILL MAY BE USED AT EXTERIOR AREAS AND BENEATH PAVEMENTS, BUT SHALL NOT BE USED BENEATH THE BUILDING ADDITION, FOUNDATION OR INTERIOR FLOOR SLAB.
3. BRING TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND OWNER'S REPRESENTATIVE ANY SUBSOIL CONDITIONS, OBSTRUCTIONS OR EXCESSIVE GROUNDWATER THAT IMPEDE PLACEMENT OF FILL AFTER THE UNDERCUT IS COMPLETED.
4. THE ENTIRE BUILDING PAD AND UNDERCUT AREA SHALL BE FREE OF 'BLUE' CLAY AND OTHER EXPANSIVE OR NON-COHESIVE SUBSOILS.
5. POISON THE SUB-SOILS BENEATH ALL NEW FOUNDATIONS THOROUGHLY, INCLUDING FOOTINGS AND FLOOR SLABS, PRIOR TO PLACING CONCRETE, PERIMETER INSULATION OR UNDERSLAB MOISTURE BARRIER. PROVIDE THE OWNER A CERTIFICATE OF COMPLETION ATTESTING TO THE WORK, THE TYPE(S) OF POISON USED, AND A WARRANTY. REFER TO SPECIFIED REQUIREMENTS UNDER SECTION 313116, TERMITE CONTROL.

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12-30-24
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DECEMBER 30, 2024

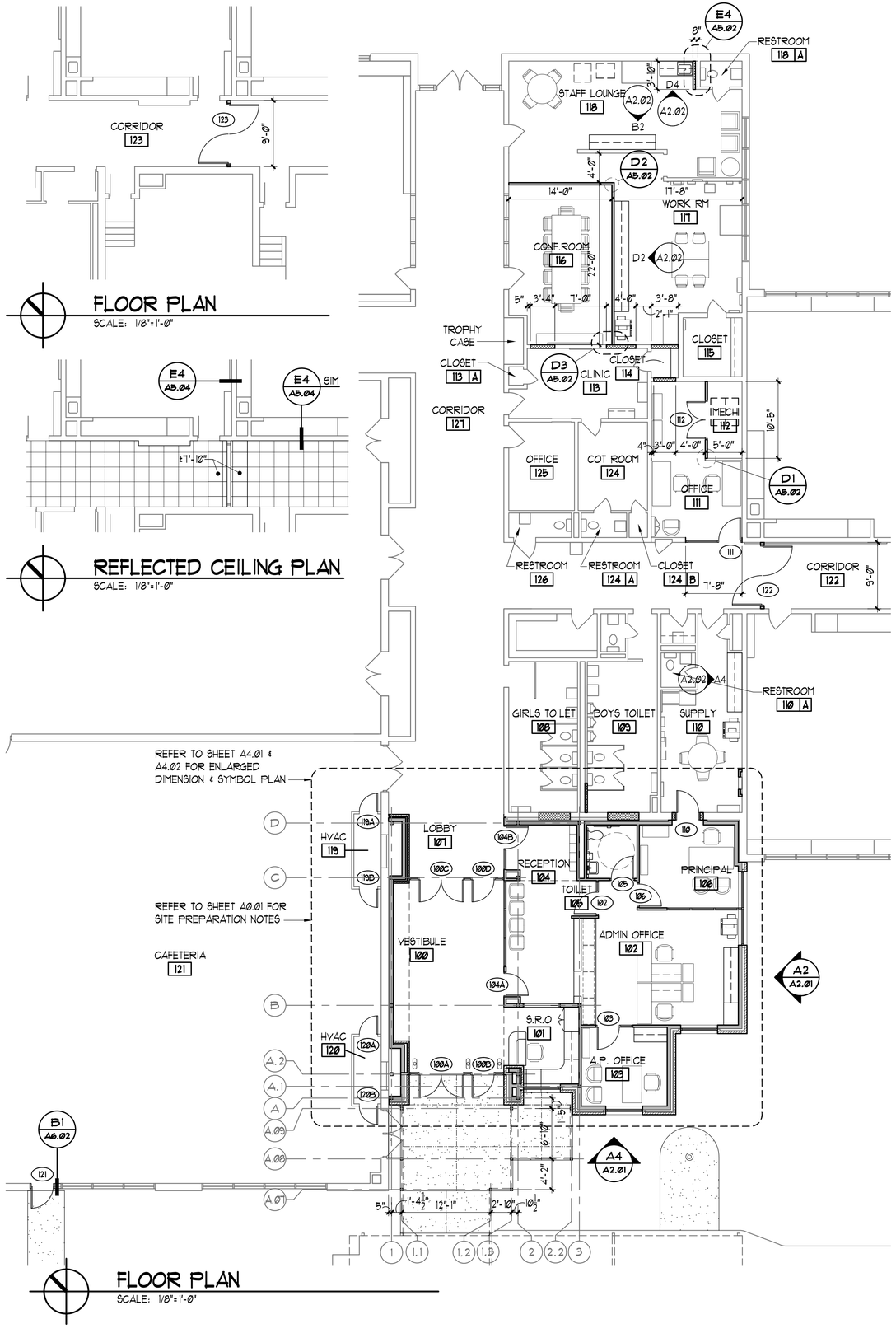
OVERALL FLOOR PLAN

JOB NUMBER 2312

A0.01

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

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



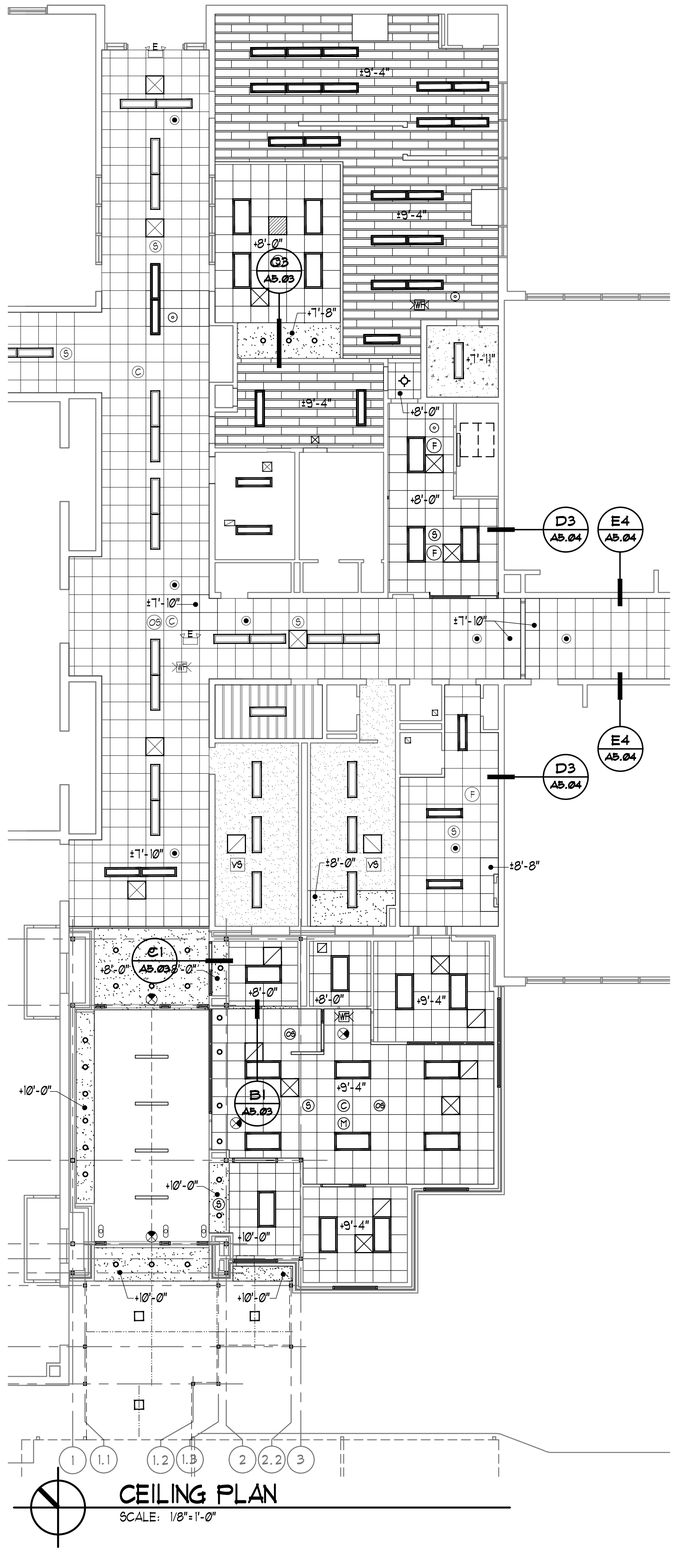
FLOOR PLAN
SCALE: 1/8"=1'-0"

REFLECTED CEILING LEGEND:

- 2X2 CEILING GRID TO REMAIN
- 2X2 CEILING GRID
- CONCRETE PANEL CEILING TO REMAIN
- GWB CEILING TO REMAIN
- GWB CEILING
- EXPOSED FENESTRA LS DECK JOISTS & NEW ACOUSTICAL CEILING PANELS
- 1X4 LIGHT FIXTURE TO REMAIN
- 1X4 LIGHT FIXTURE
- 2X4 LIGHT FIXTURE
- RECESSED DOWNLIGHT
- SURFACE MOUNTED LIGHT
- PENDANT LIGHT FIXTURE
- REINSTALL SALVAGED EXTERIOR LIGHT
- SMOKE SENSOR TO REMAIN
- REINSTALL SALVAGED SMOKE SENSOR
- SUPPLY AIR DIFFUSER TO REMAIN
- SUPPLY AIR DIFFUSER
- RETURN AIR DIFFUSER TO REMAIN
- RETURN AIR DIFFUSER
- SPLIT SYSTEM UNIT
- CCTV SENSOR TO REMAIN
- REINSTALL SALVAGED CCTV SENSOR
- SPEAKER TO REMAIN
- REINSTALL SALVAGED SPEAKER
- WIFI SENSOR TO REMAIN
- REINSTALL SALVAGED WIFI SENSOR
- EMERGENCY LIGHT TO REMAIN
- FIRE ALARM STROBE TO REMAIN
- REINSTALL SALVAGED FIRE ALARM STROBE
- OCCUPANCY SENSOR TO REMAIN
- REINSTALL SALVAGED OCCUPANCY SENSOR
- INSTALL MOTION DETECTOR
- VALVE BOX TO REMAIN
- HVAC UNIT TO REMAIN
- CEILING MOUNTED EXIT LIGHT
- +X'-X" CEILING SURFACE HEIGHT AFF

FLOOR PLAN LEGEND:

- METAL STUD W/BRICK VENEER EXTERIOR WALL CONSTRUCTION
- METAL STUD & BRICK VENEER WALL INTERIOR WALL CONSTRUCTION
- BLOCK WALL
- METAL STUD INTERIOR WALL
- WINDOW, SEE SCHEDULE FOR DETAILS
- MASONRY WALL TO REMAIN
- DOOR TO REMAIN
- NEW DOOR, SEE SCHEDULE FOR DETAILS
- CONCRETE PAVING
- XXX DOOR TAG
- XXX WINDOW TAG



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

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12-30-24
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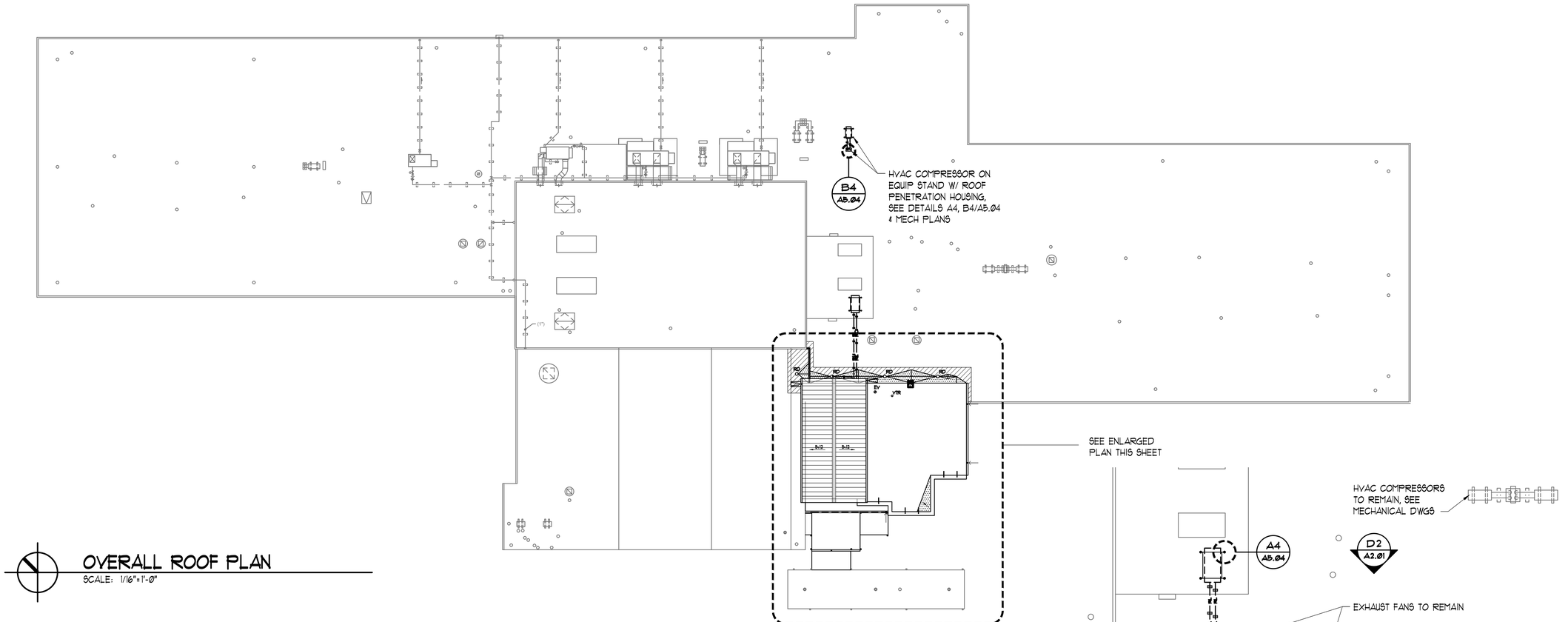
FEBRUARY 4, 2025

FLOOR PLAN & REFLECTED CEILING PLAN

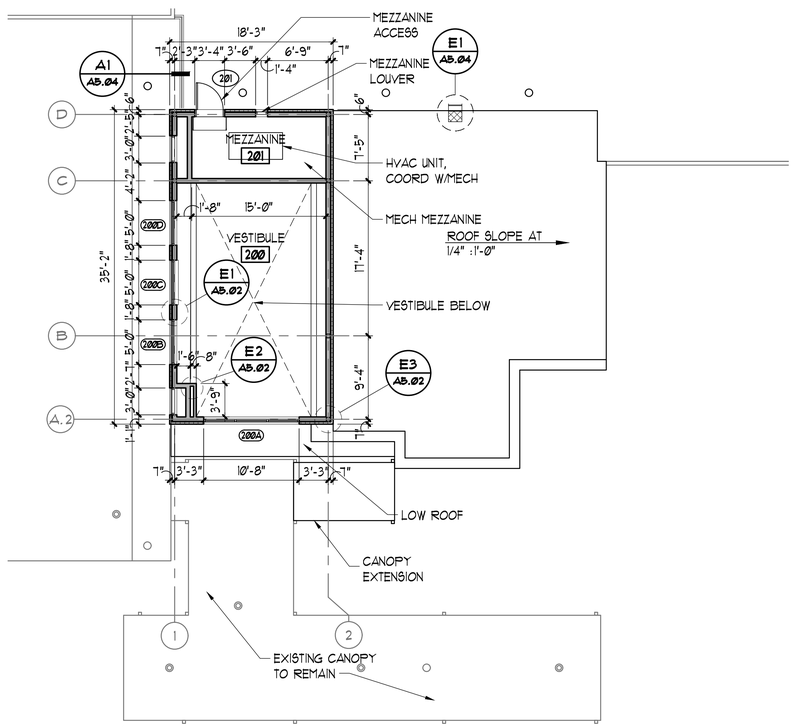
JOB NUMBER 2312

A1.01



OVERALL ROOF PLAN

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



ENLARGED MEZZANINE PLAN

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

ROOF LEGEND-NEW WORK

VTR	VTR, SEE DETAIL B2/A5.04
RD	ROOF DRAIN, SEE DETAIL A2/A5.04
	DS W/ BOOT LOCATION CONNECT TO UNDERGROUND DRAIN PIPING
	DS & SPLASH BLOCK
E	GUTTER EJ. SIM TO SMACNA FIG1-7
	1/2 : 12 CRICKET
	ROOF SLOPE @ 1/4 : 12, UON
RPH	ROOF PENETRATION HOUSING
	HVAC CONDENSER ON NEW EQUIPMENT STAND, SEE DETAIL E3/A5.04 & MECH PLANS
	CONDENSATE LINE ON SUPPORT BLOCK,
RL	REFRIGERANT LINE ON SUPPORT BLOCK, SEE MECH PLANS
EV	4" DIA EXHAUST VENT, SEE DETAIL B3/A5.04 & MECH PLANS

ENLARGED ROOF PLAN

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

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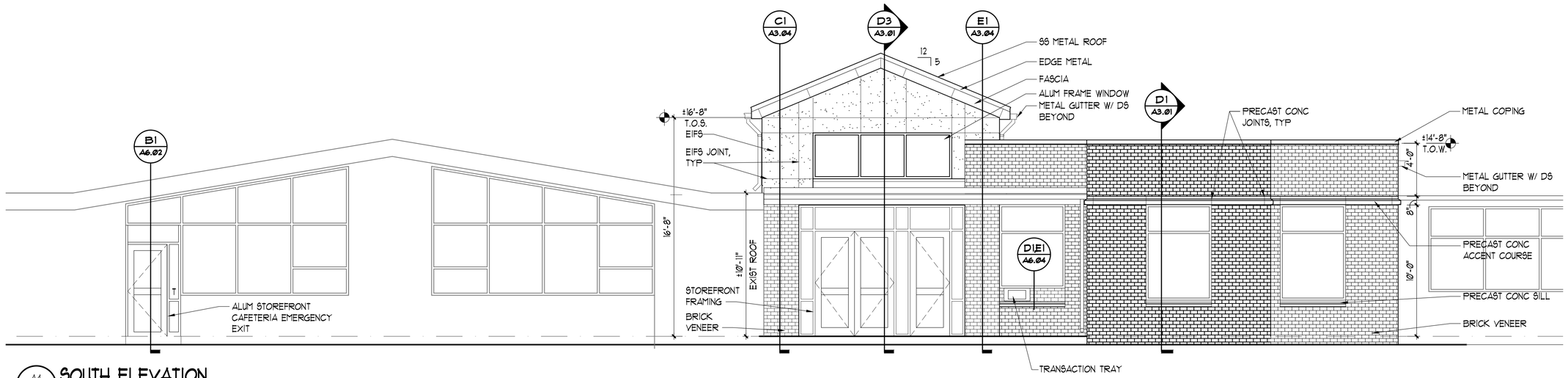
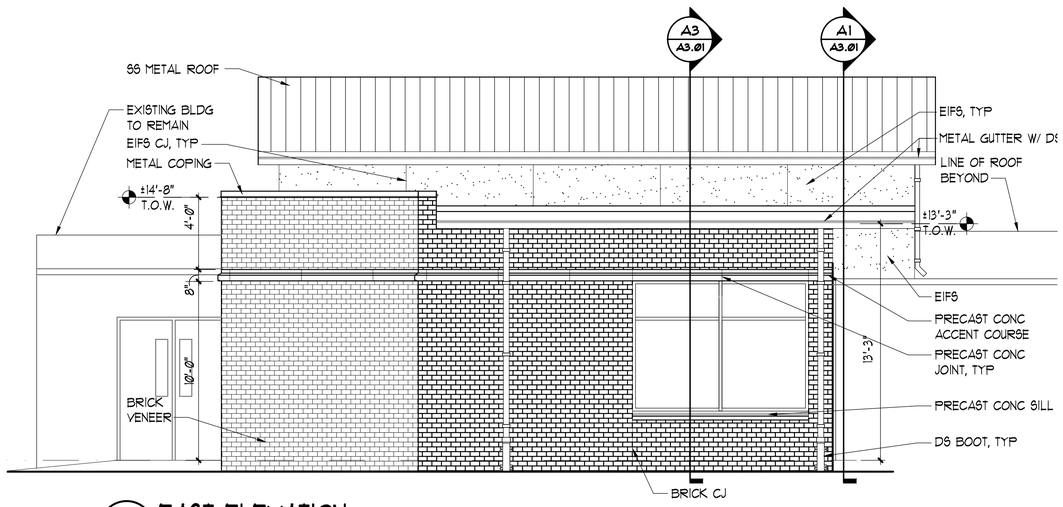
ROOF PLAN & MEZZANINE PLAN

JOB NUMBER 2312

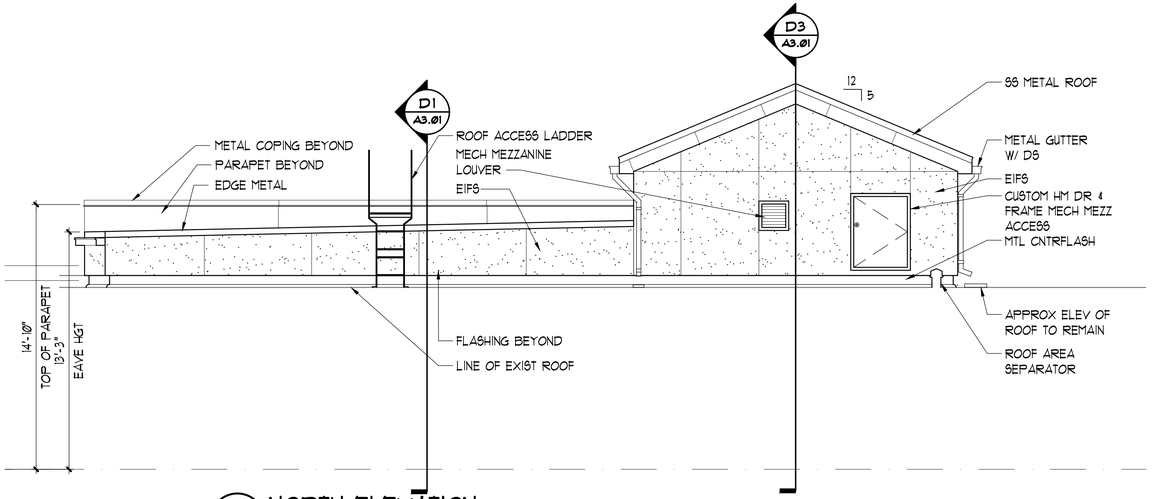
A1.02



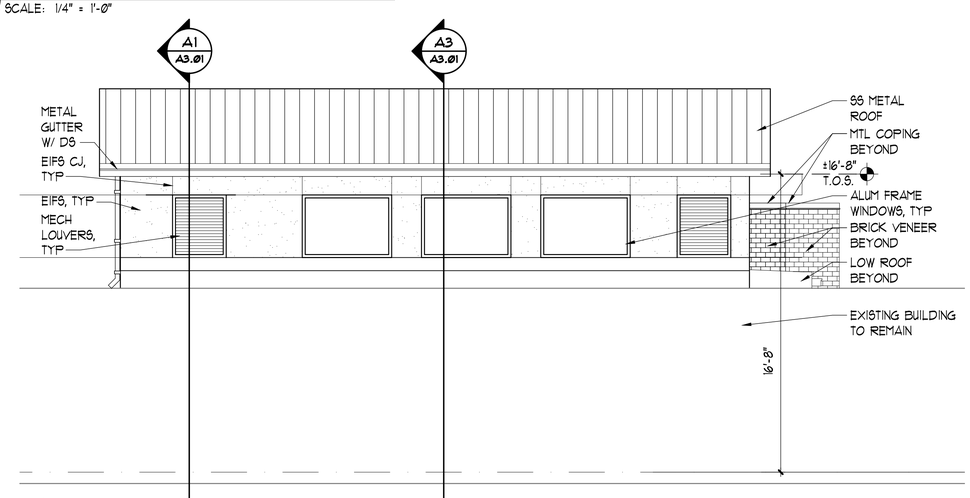
A4 / A2.Ø1 **SOUTH ELEVATION**
SCALE: 1/4" = 1'-0"



A2 / A2.Ø1 **EAST ELEVATION**
SCALE: 1/4" = 1'-0"



D2 / A2.Ø1 **NORTH ELEVATION**
SCALE: 1/4" = 1'-0"



A1 / A2.Ø1 **WEST ELEVATION**
SCALE: 1/4" = 1'-0"

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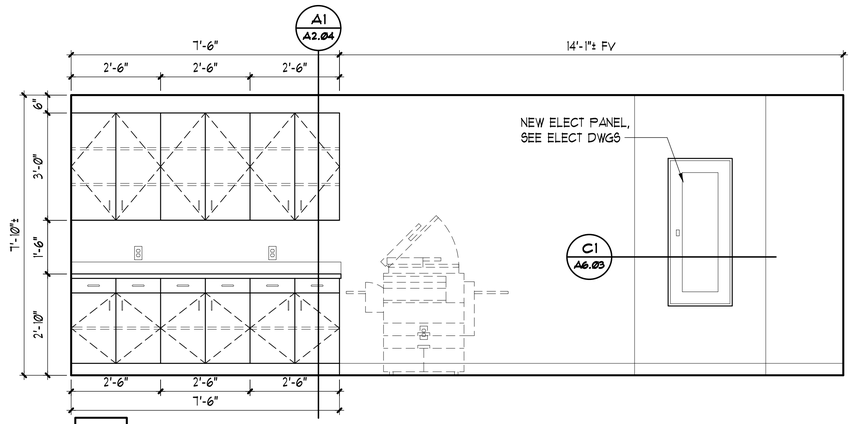
FEBRUARY 4, 2025

EXTERIOR ELEVATIONS

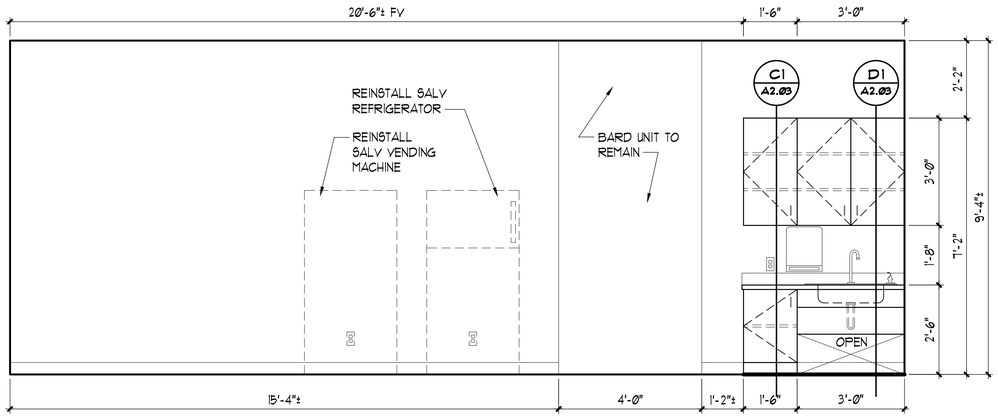
JOB NUMBER 2312

A2.01



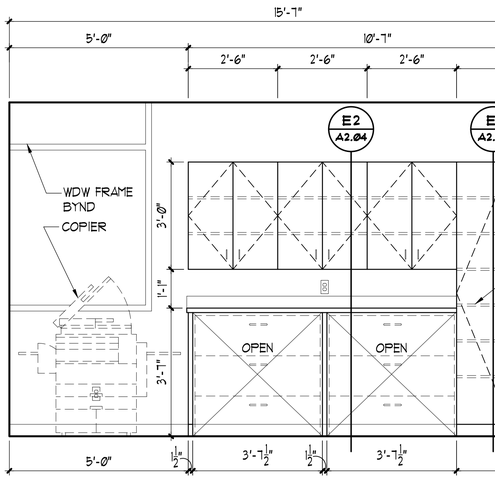
A4 ELEVATION

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



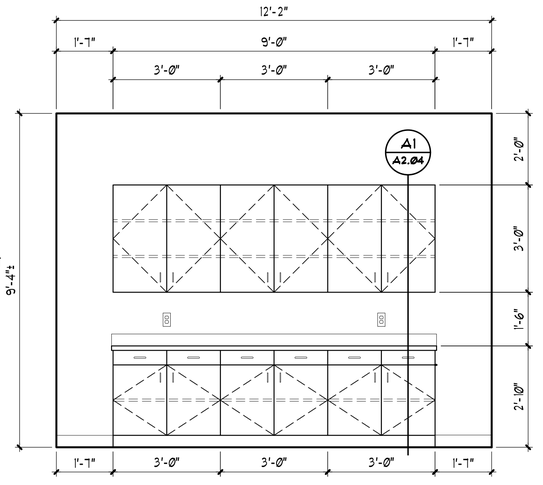
D4 ELEVATION

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



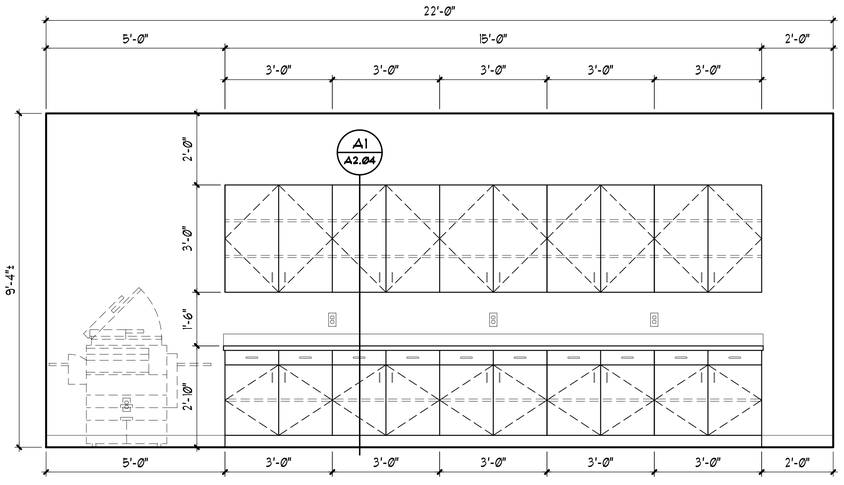
A2 ELEVATION

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



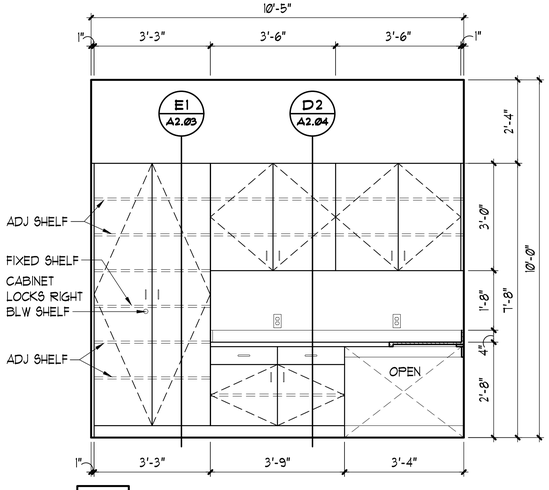
B2 ELEVATION

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



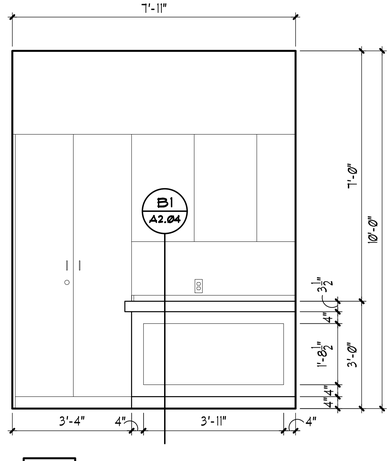
D2 ELEVATION

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



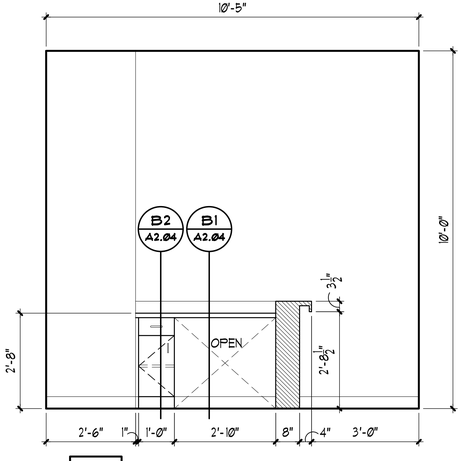
A1 ELEVATION

SCALE: 1/2"=1'-0" S.R.O.



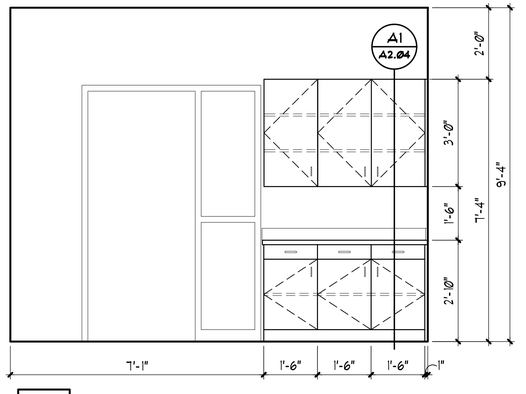
B1 ELEVATION

SCALE: 1/2"=1'-0" S.R.O.



C1 ELEVATION

SCALE: 1/2"=1'-0" S.R.O.



D1 ELEVATION

SCALE: 1/2"=1'-0" A.P OFFICE

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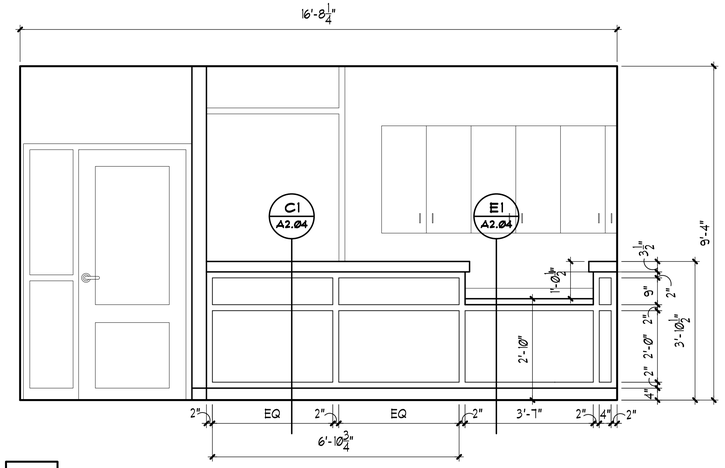
FEBRUARY 4, 2025

CASEWORK
ELEVATIONS

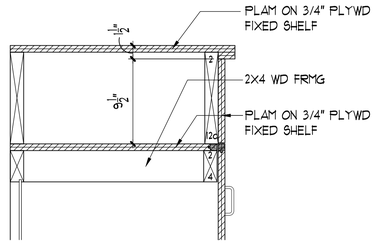
JOB NUMBER 2312

A2.02

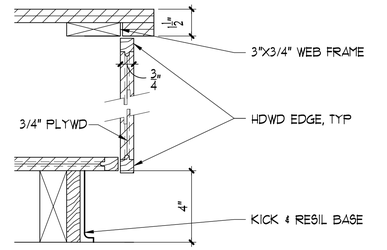


A4 ELEVATION

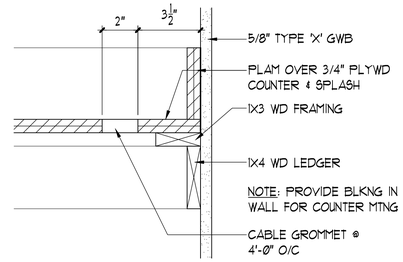
SCALE: 1/2"=1'-0" ADMIN OFFICE



C4 DETAIL
SCALE: 1-1/2"=1'-0"



D4 DETAIL TYPICAL CABINET BASE
SCALE: 3"=1'-0"



E4 DETAIL
SCALE: 3"=1'-0"

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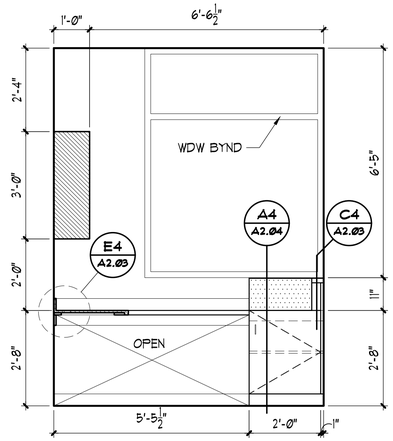
A2 ELEVATION

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



A1 ELEVATION

SCALE: 1/2"=1'-0" S.R.O.

CASEWORK NOTES:

1. ALL EXPOSED MATERIAL SHALL BE PLASTIC LAMINATE ON HARDWOOD PLYWOOD. ALL EXPOSED EDGES WILL RECEIVE PLASTIC LAMINATE EDGING TO MATCH THE ADJACENT SURFACES, UNLESS OTHERWISE NOTED. SEMI-EXPOSED SURFACES SHALL BE PAINTED OR MELAMINE FILM ON HARDWOOD PLYWOOD.
2. ALL CABINETS TO BE FLUSH OVERLAY CONSTRUCTION CONFORMING TO AWI CUSTOM QUALITY STANDARDS, UNLESS OTHERWISE NOTED.
3. ALL COUNTER TOPS, SPLASHES AND SHELVES SHALL BE PLASTIC LAMINATE ON PLYWOOD UNLESS OTHERWISE NOTED. SPLASHES SHALL BE 4" TALL, UNLESS OTHERWISE NOTED. COORDINATE ELECTRICAL ROUGH-INS.
4. PROVIDE HARDWOOD PLYWOOD KICKS AT ALL CASEWORK. INSTALL RESILIENT BASE OVER THE KICK AS SHOWN IN THE FINISH SCHEDULE.
5. PROVIDE FINISH ENDS AND BACKS WHERE CASEWORK IS EXPOSED.

C1 DETAIL
SCALE: 1-1/2"=1'-0"

D1 DETAIL
SCALE: 1-1/2"=1'-0"

E1 DETAIL
SCALE: 1-1/2"=1'-0"

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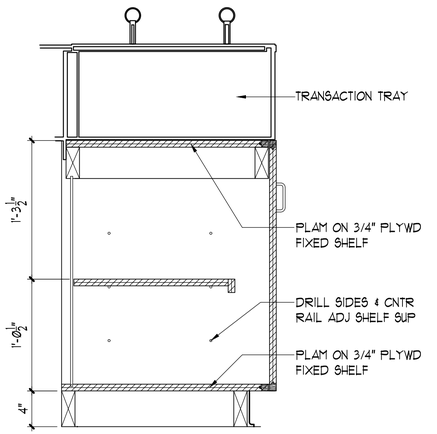
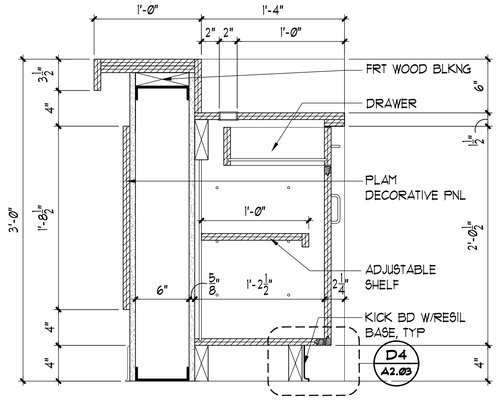
CASEWORK ELEVATIONS & DETAILS

JOB NUMBER 2312

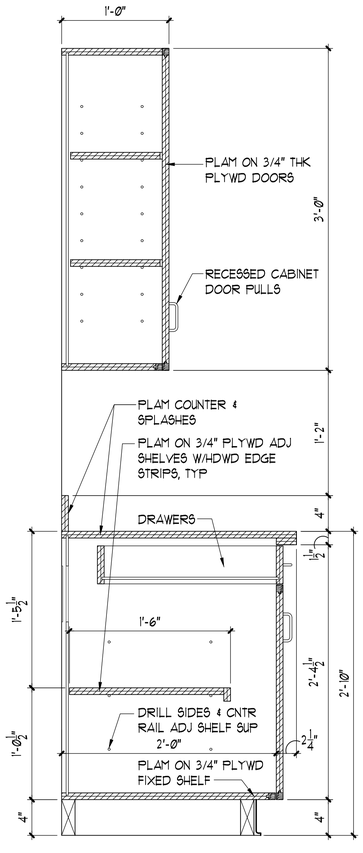
A2.03



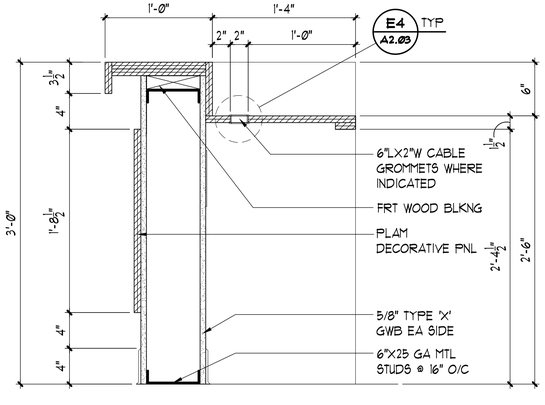
A4 DETAIL
SCALE: 1-1/2"=1'-0"



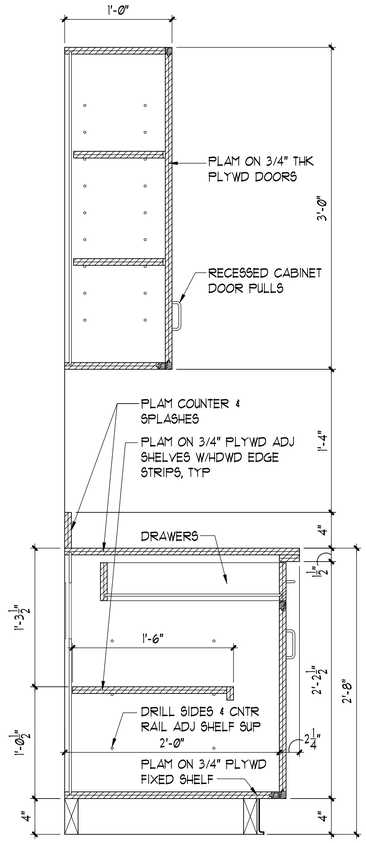
B2 DETAIL
SCALE: 1-1/2"=1'-0"



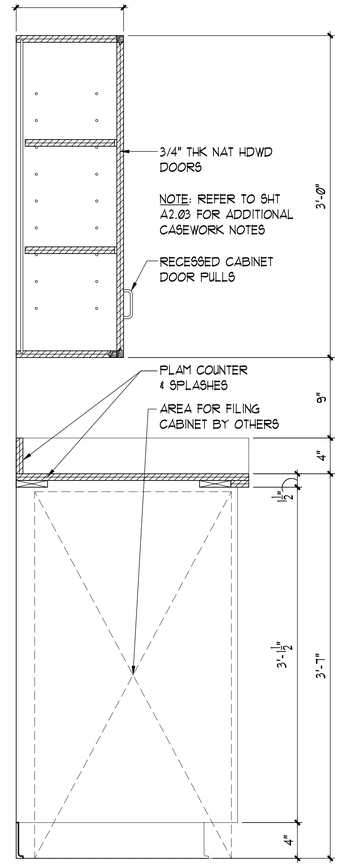
A1 DETAIL
SCALE: 1-1/2"=1'-0"



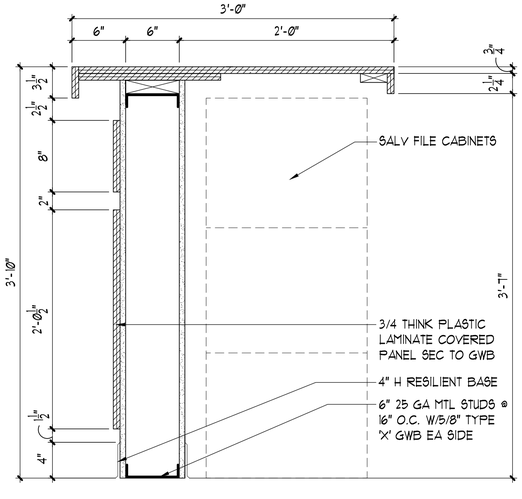
B1 DETAIL
SCALE: 1-1/2"=1'-0"



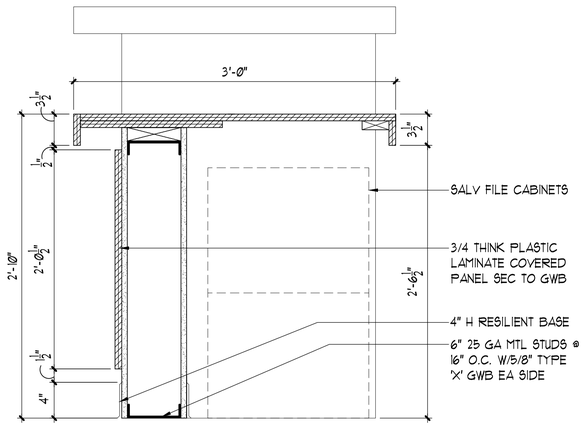
D2 DETAIL
SCALE: 1-1/2"=1'-0"



E2 DETAIL
SCALE: 1-1/2"=1'-0"



C1 DETAIL
SCALE: 1-1/2"=1'-0"



E1 DETAIL
SCALE: 1-1/2"=1'-0"

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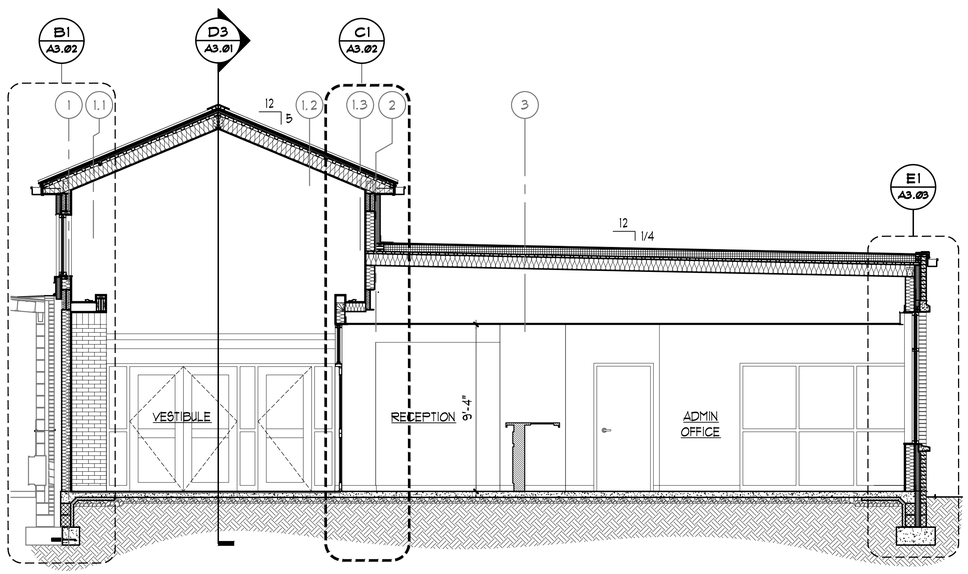
FEBRUARY 4, 2025

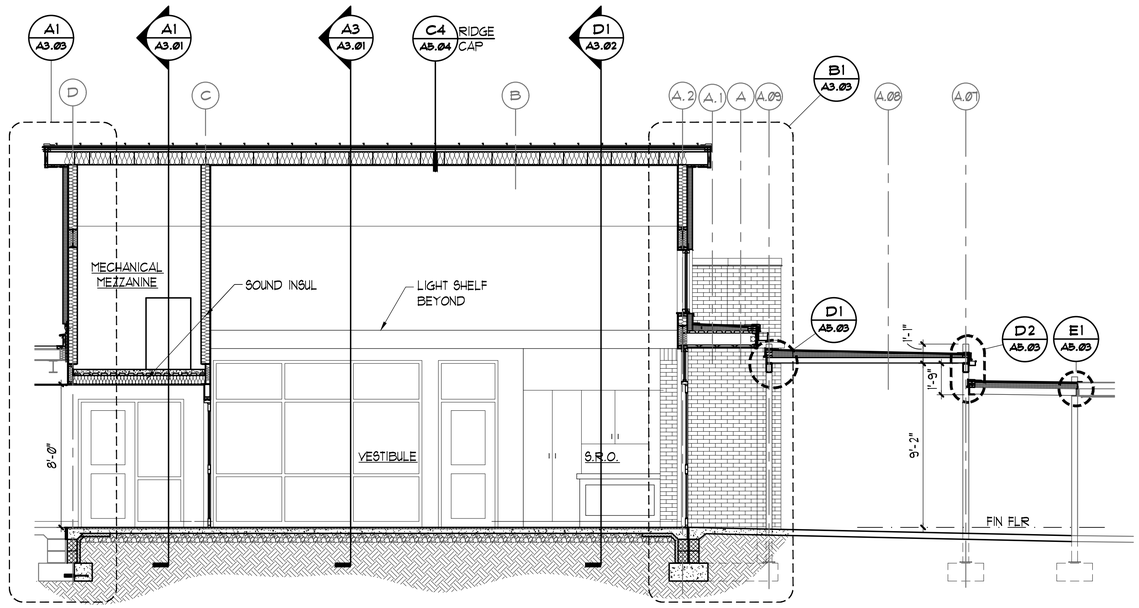
CASEWORK DETAILS

JOB NUMBER 2312

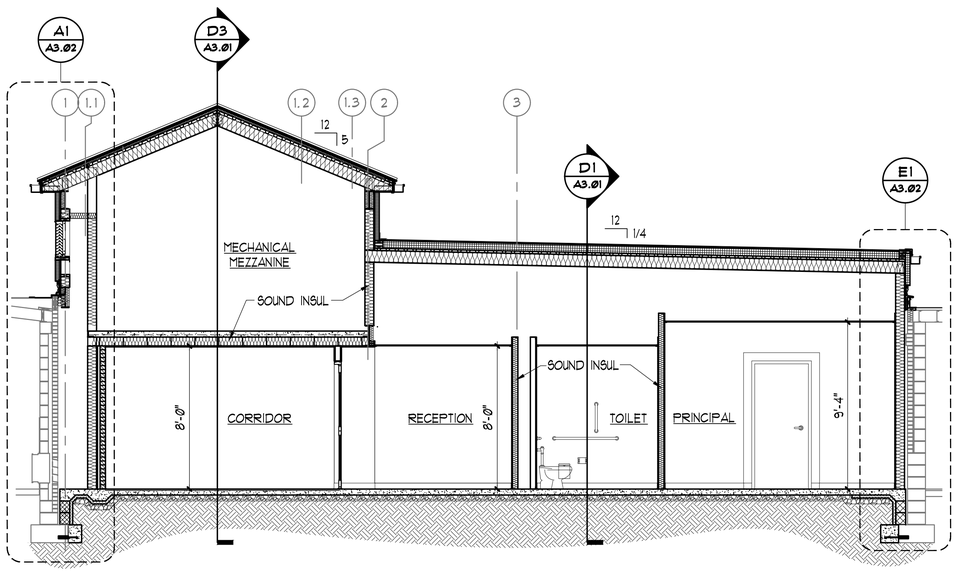
A2.04



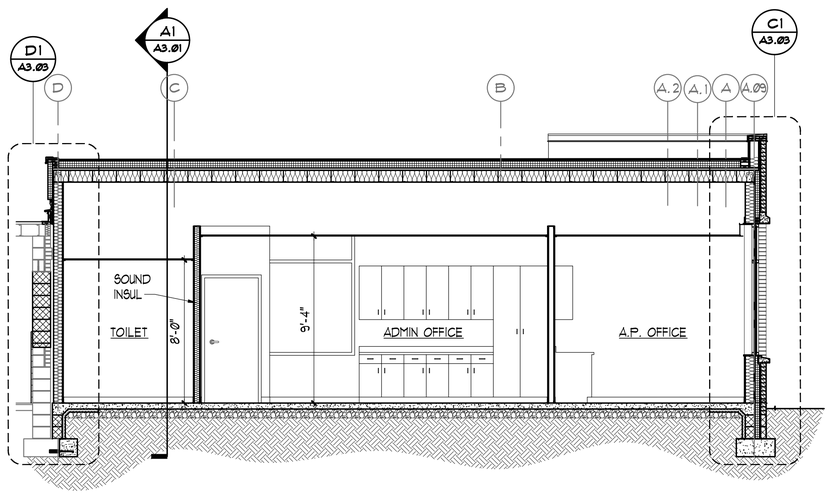
A3 / A3.Ø1 **BUILDING SECTION**
SCALE: 1/4" = 1'-0"



D3 / A3.Ø1 **BUILDING SECTION**
SCALE: 1/4" = 1'-0"



A1 / A3.Ø1 **BUILDING SECTION**
SCALE: 1/4" = 1'-0"



D1 / A3.Ø1 **BUILDING SECTION**
SCALE: 1/4" = 1'-0"

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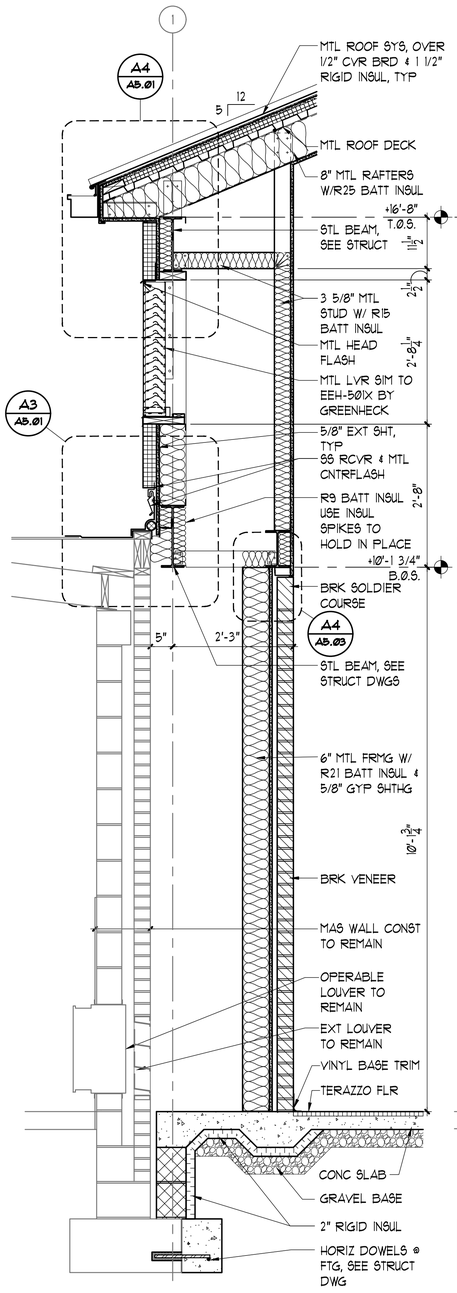
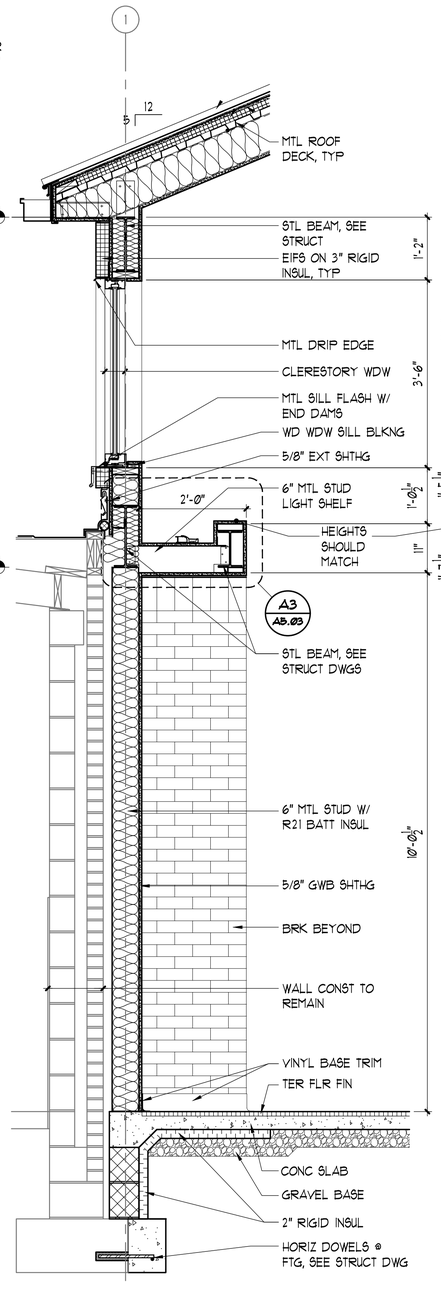
BUILDING SECTIONS

JOB NUMBER 2312

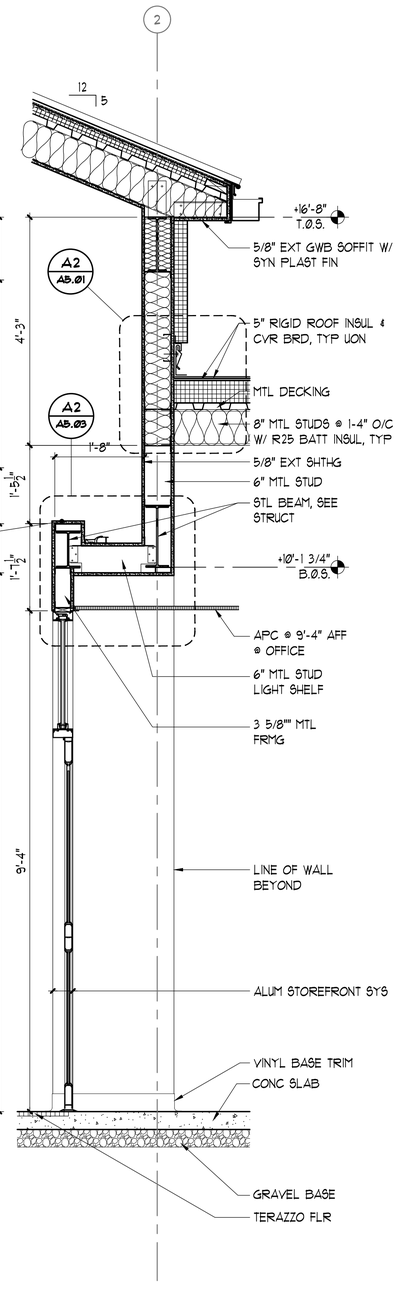
A3.01



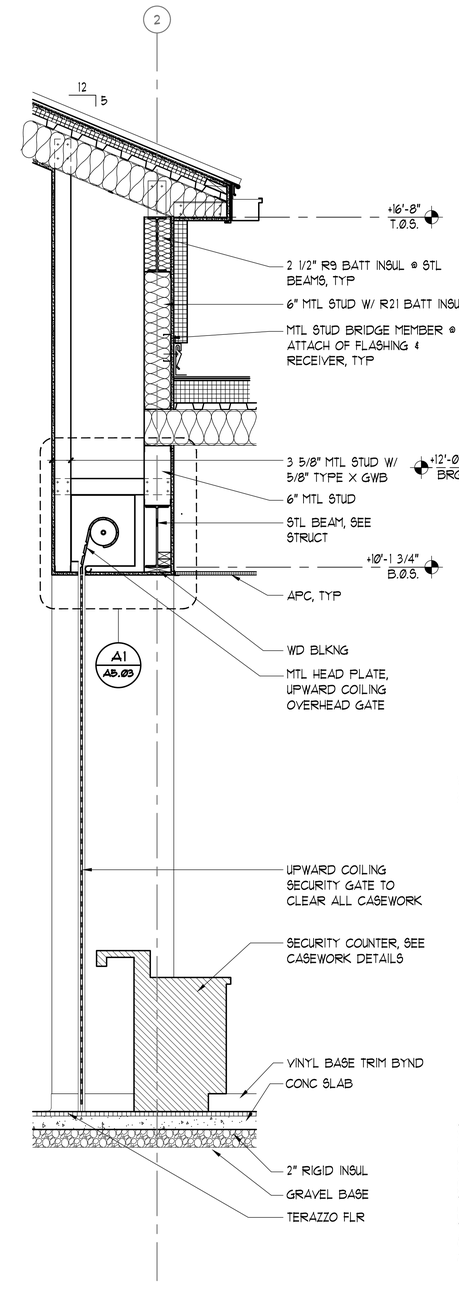
A1 SECTION
SCALE: 3/4"=1'-0"



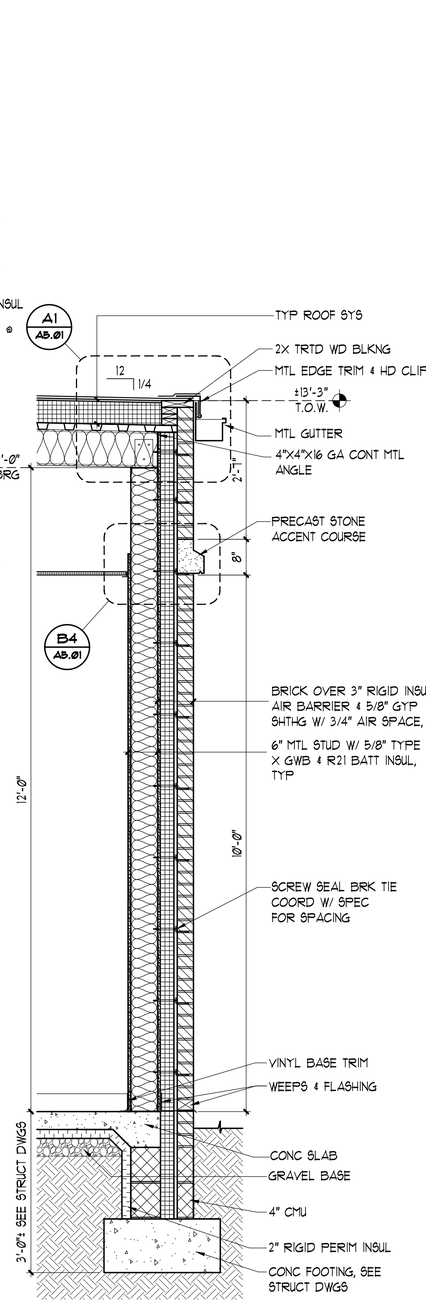
B1 SECTION
SCALE: 3/4"=1'-0"



C1 SECTION
SCALE: 3/4"=1'-0"



D1 SECTION
SCALE: 3/4"=1'-0"



E1 SECTION
SCALE: 3/4"=1'-0"

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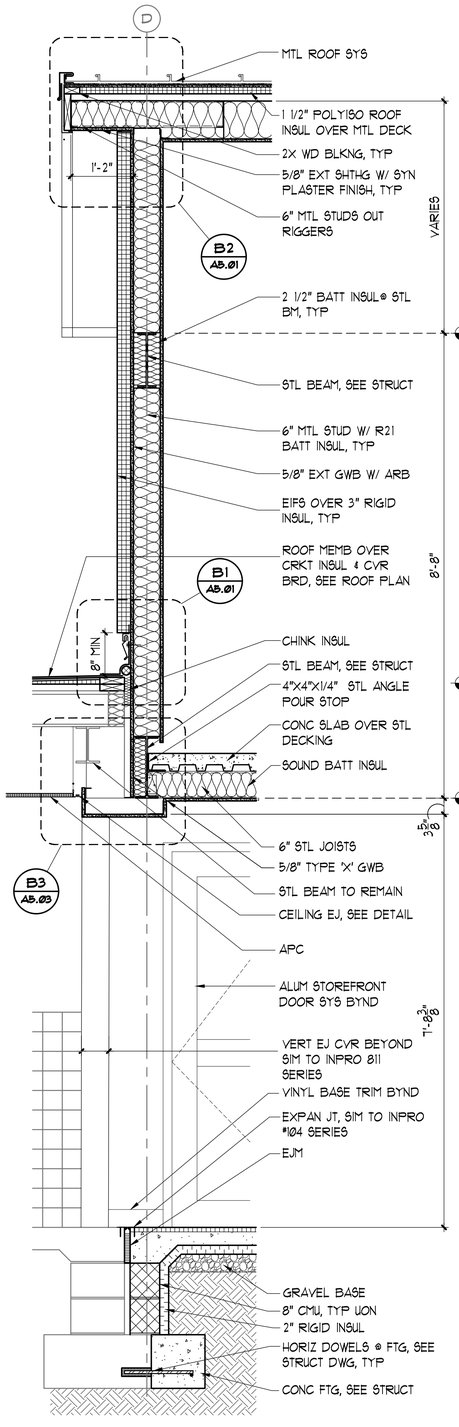
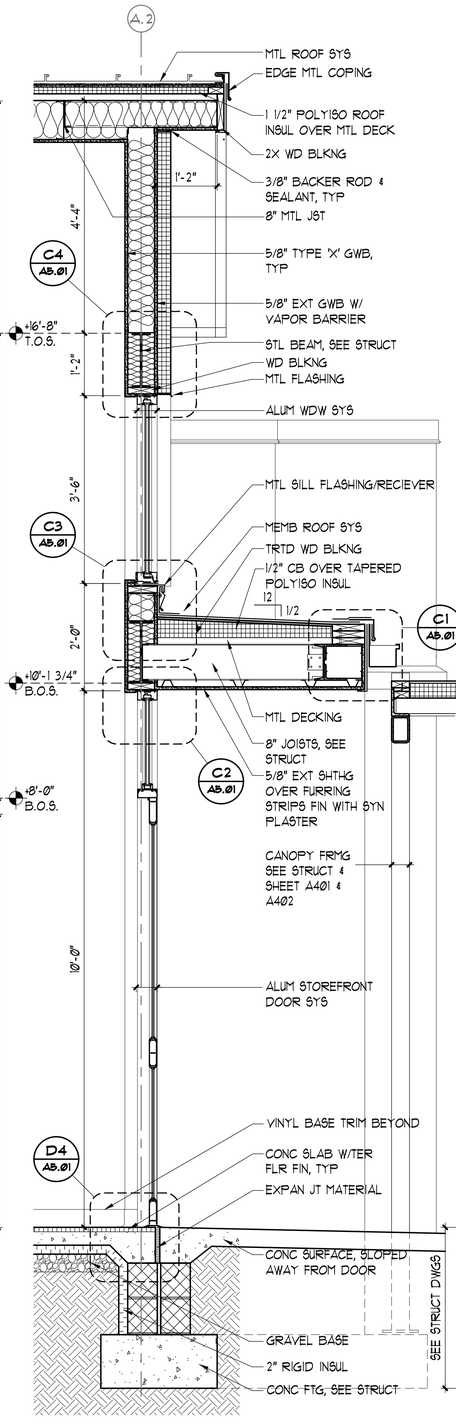
WALL SECTIONS

JOB NUMBER 2312

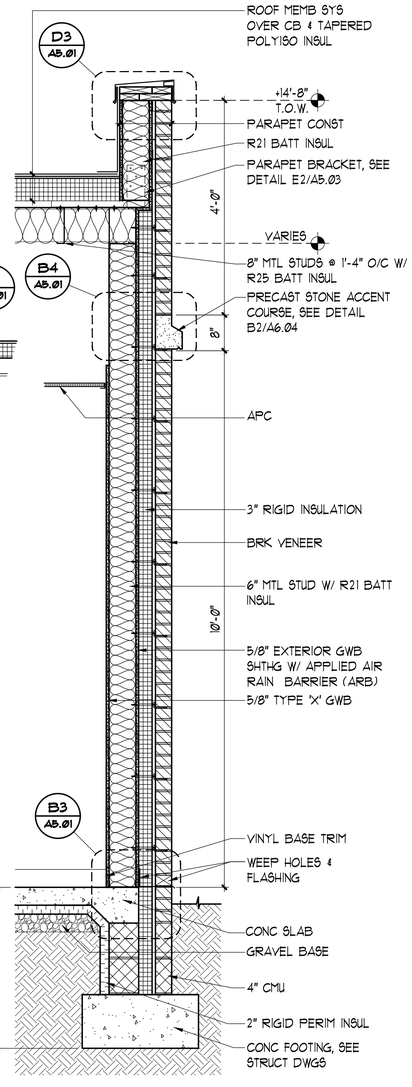
A3.02



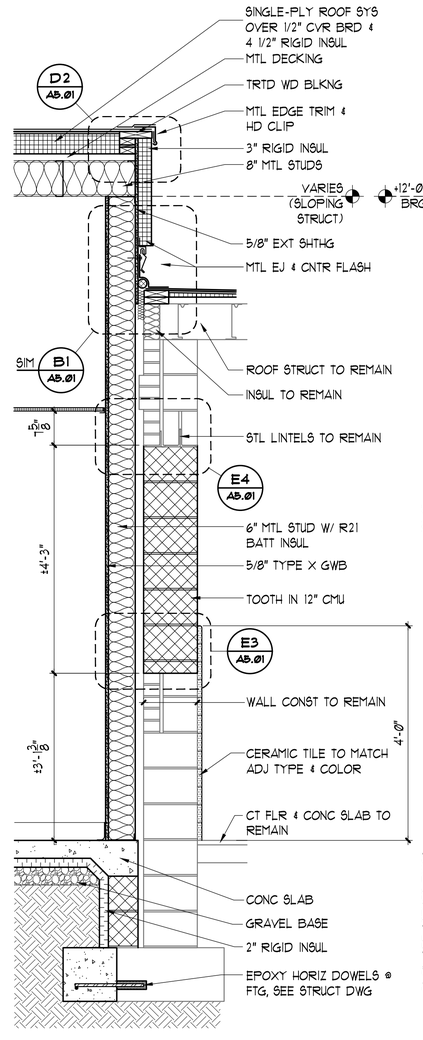
A1 SECTION
SCALE: 3/4"=1'-Ø"



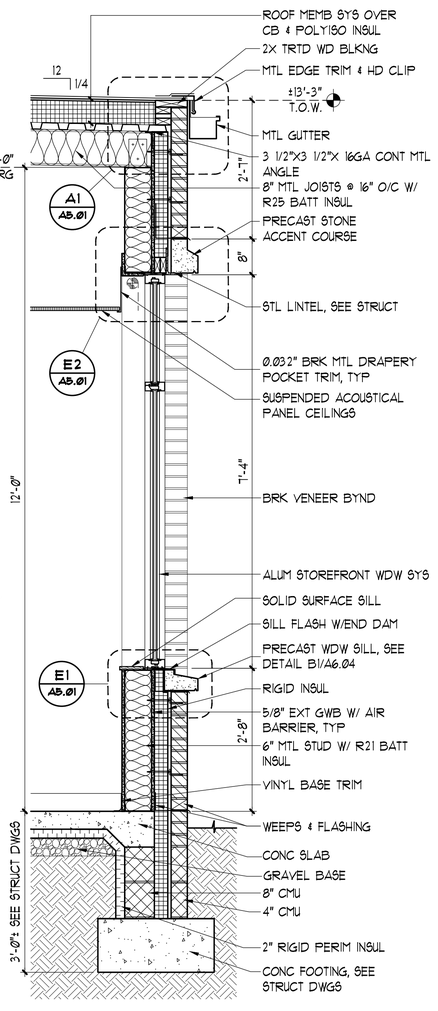
B1 SECTION
SCALE: 3/4"=1'-Ø"



C1 SECTION
SCALE: 3/4"=1'-Ø"



D1 SECTION
SCALE: 3/4"=1'-Ø"



E1 SECTION
SCALE: 3/4"=1'-Ø"

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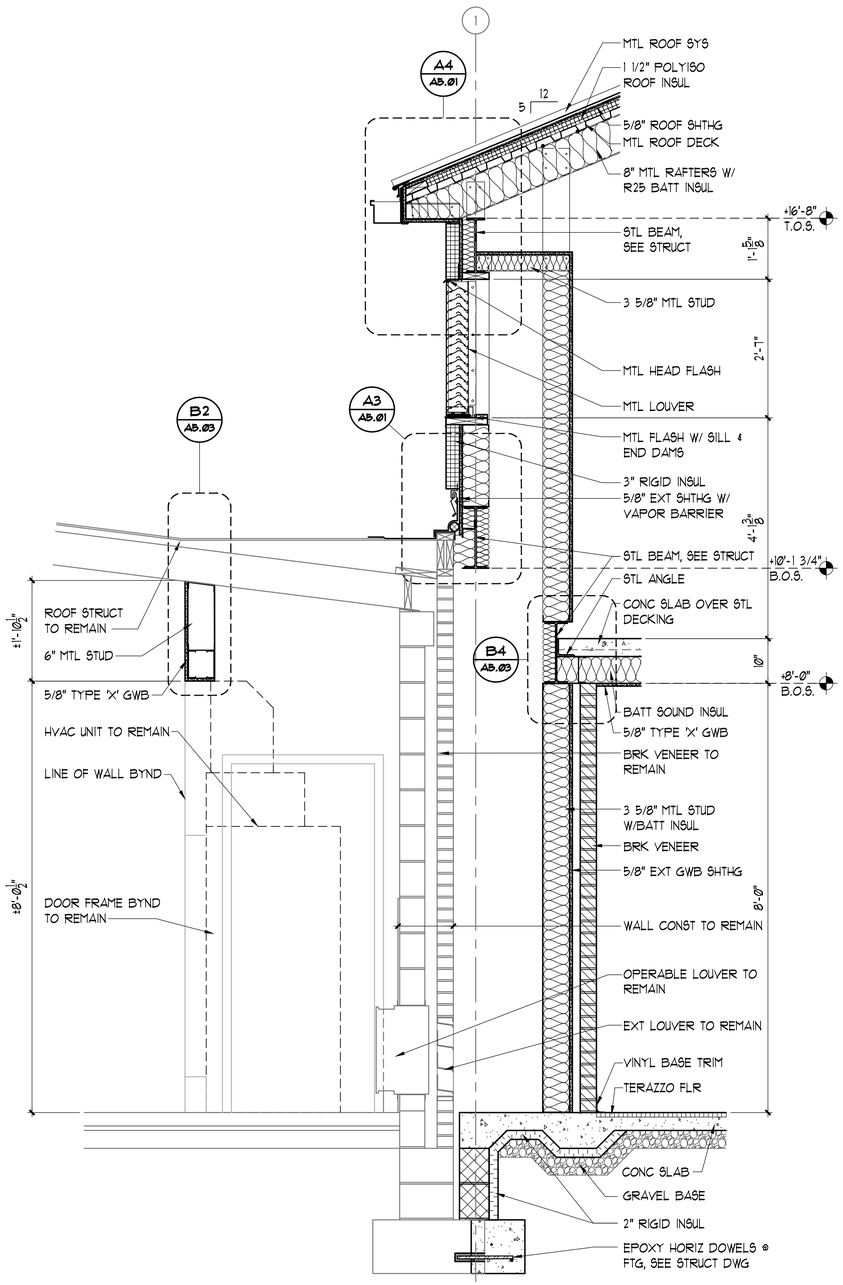
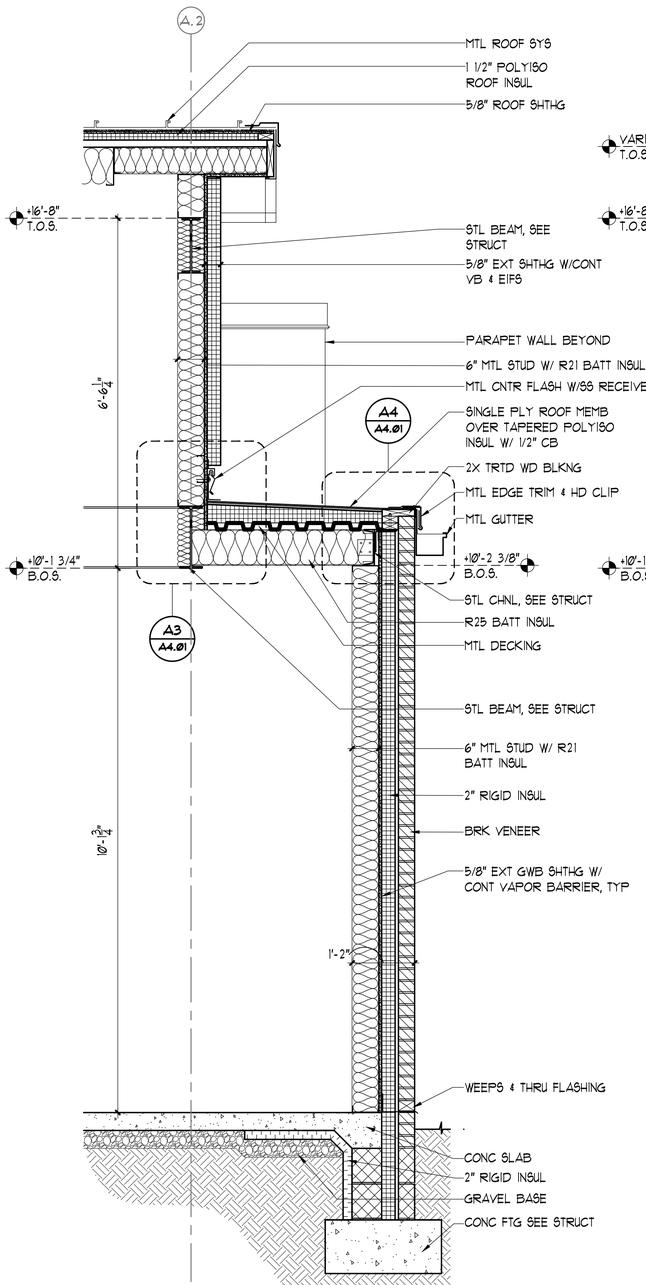
JOB NUMBER 2312

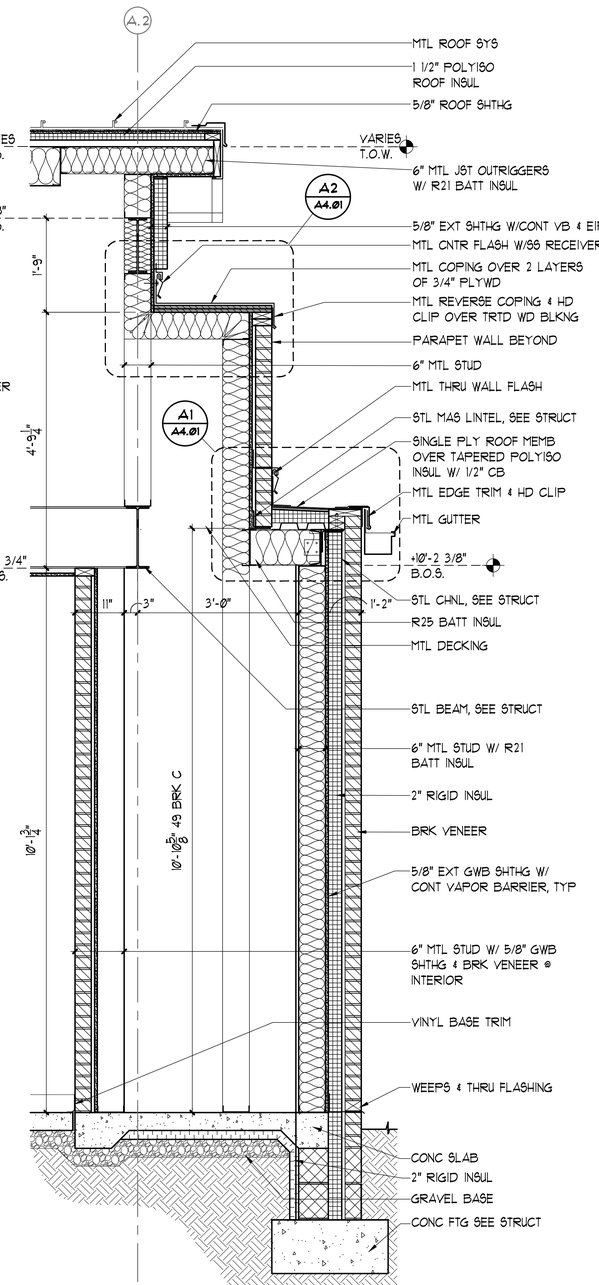
A3.03



B1 SECTION
SCALE: 3/4"=1'-0"



C1 SECTION
SCALE: 3/4"=1'-0"



E1 SECTION
SCALE: 3/4"=1'-0"

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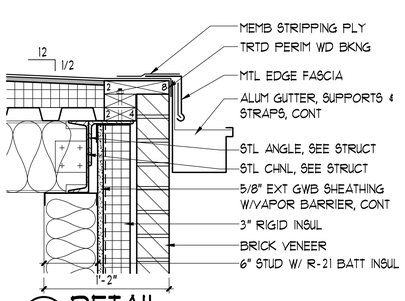
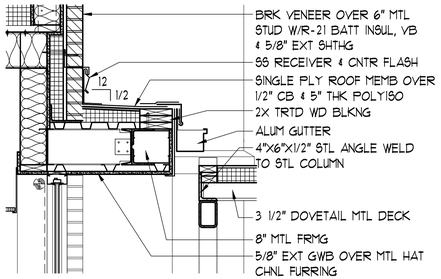
WALL SECTIONS

JOB NUMBER 2312

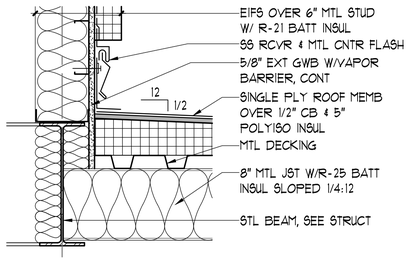
A3.04



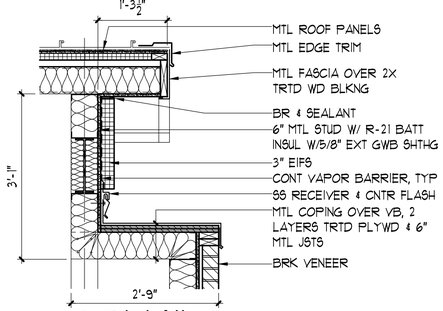
A4 DETAIL
SCALE: 1 1/2" = 1'-0"



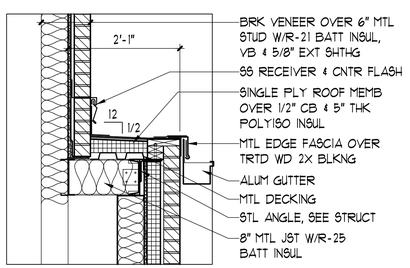
B4 SECTION
SCALE: 3/4"=1'-0"



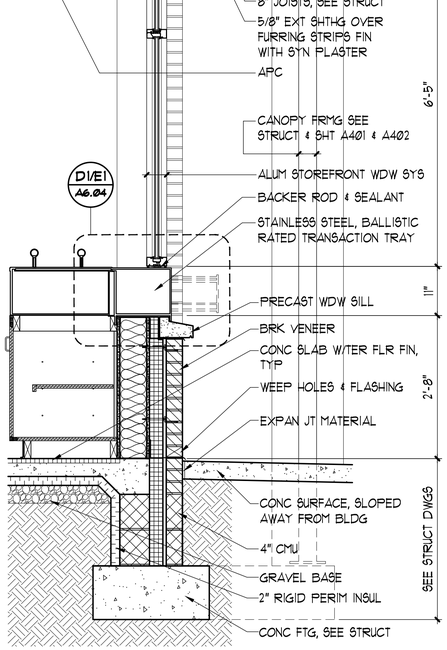
A3 DETAIL
SCALE: 1 1/2" = 1'-0"



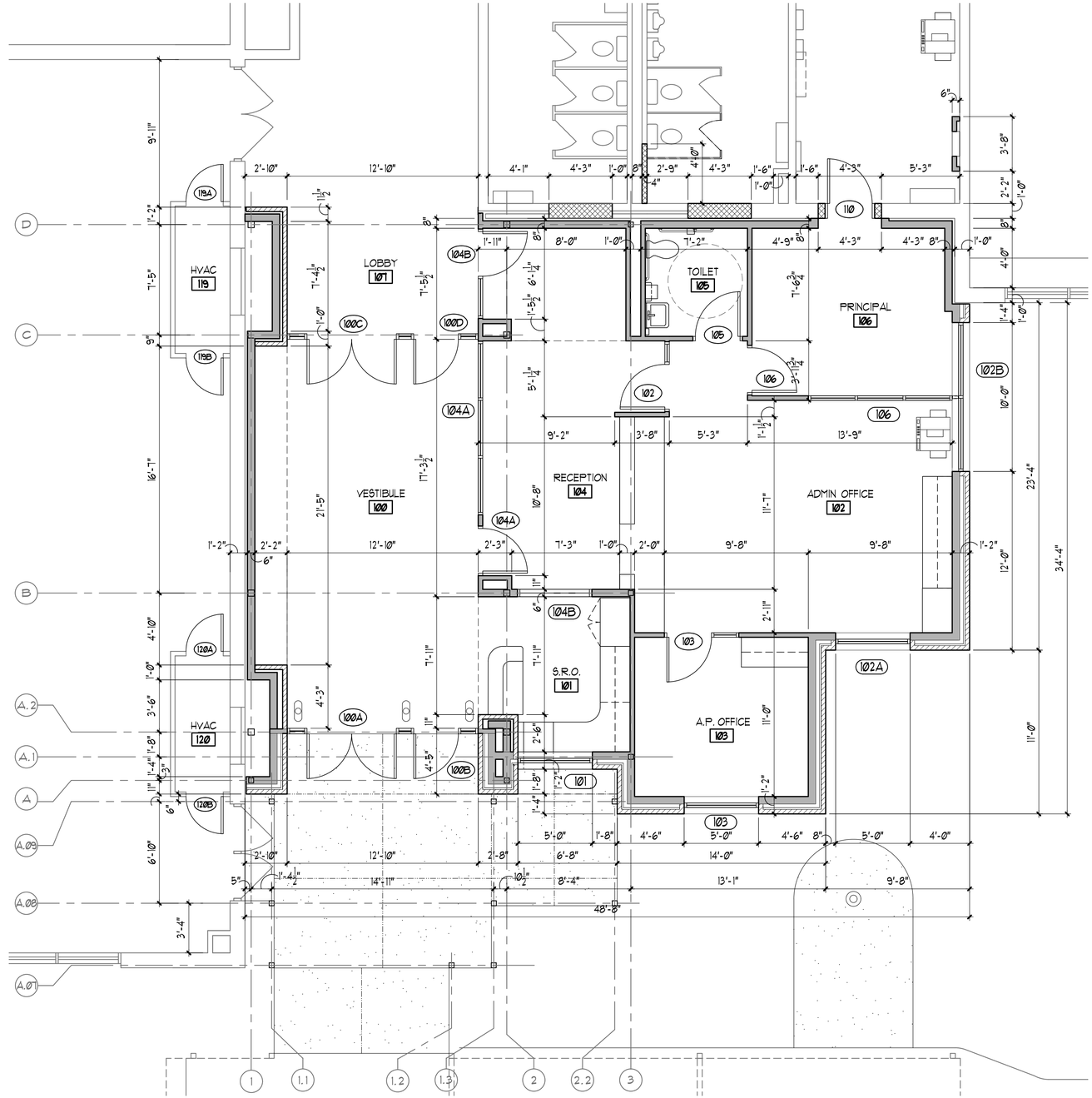
A2 DETAIL
SCALE: 3/4" = 1'-0"



A1 DETAIL
SCALE: 1 1/2" = 1'-0"



B1 SECTION
SCALE: 3/4"=1'-0"



ENLARGED OFFICE FLOOR PLAN
SCALE: 1/4"=1'-0"

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SECURITY VESTIBULE & OFFICE ADDITION & & ALTERATIONS FOR YATES ELEMENTARY SCHOOL
73 MAXWELL LANE
NEWPORT NEWS, VIRGINIA 23606

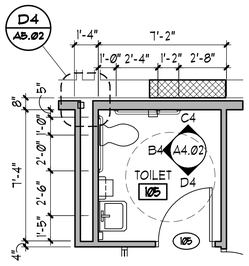
COMMONWEALTH OF VIRGINIA
RICHARD S. CORNER
Lic. No. 007014
12-30-24
ARCHITECT

FEBRUARY 4, 2025

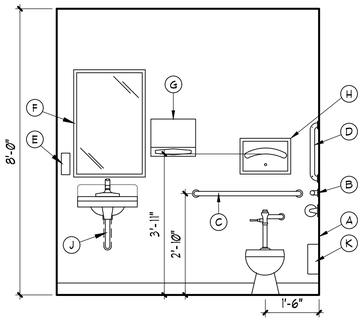
ENLARGED FLOOR PLAN - DIMENSION PLAN

JOB NUMBER 2312

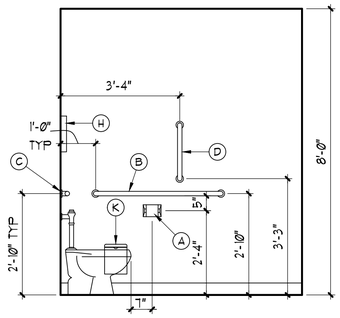
A4.01



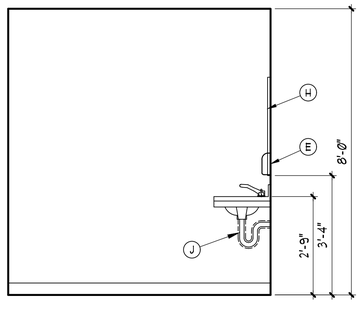
A4 ENLARGED TOILET PLAN
SCALE: 1/4"=1'-Ø"



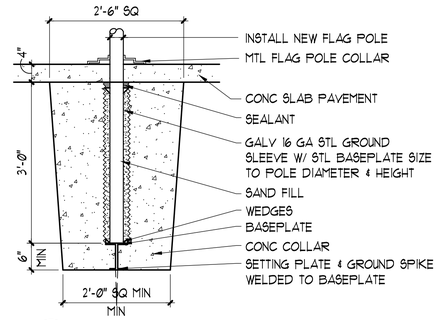
B4 TOILET ELEVATION
SCALE: 1/2" = 1'-Ø"



C4 TOILET ELEVATION
SCALE: 1/2" = 1'-Ø"



D4 TOILET ELEVATION
SCALE: 1/2" = 1'-Ø"



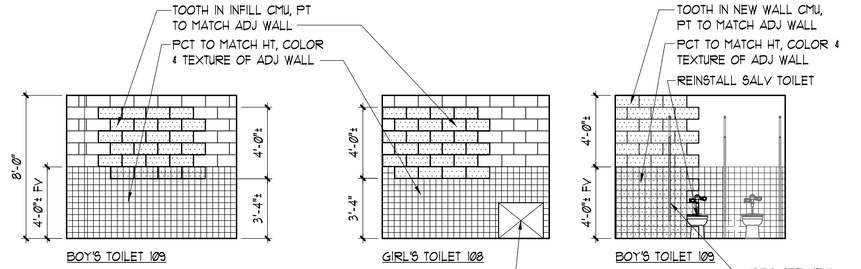
E4 DETAIL
SCALE: 3/4"=1'-Ø"

TOILET ACCESSORY SCHEDULE				OWNER FURNISHED CONTRACTOR INSTALLED	CONTRACTOR PROVIDED & INSTALLED
ITEM	ACCESSORY	MOUNTING HEIGHT	NOTES		
A	TOILET TISSUE DISPENSER	2'-4" TO CENTERLINE	SURFACE MTD	●	
B	42" GRAB BAR	34" TO CENTERLINE OF BAR			●
C	36" GRAB BAR	34" TO CENTERLINE OF BAR			●
D	18" GRAB BAR	39" TO BOTTOM OF UNIT			●
E	SOAP DISPENSER	48" TO RELEASE LEVER	SURFACE MTD	●	
F	24" X 36" MIRROR	38" TO BOTTOM OF UNIT	SURFACE MTD		●
G	PAPER TOWEL DISPENSER	48" TO DISCHARGE	SURFACE MTD	●	
H	TOILET SEAT COVER	48" TO DISCHARGE	SURFACE MTD		●
J	UNDER LAVATORY PIPE PROTECTIVE COVER		SURFACE MTD		●
K	SANITARY NAPKIN DISPOSAL	1'-5" TO TOP	SURFACE MTD	●	

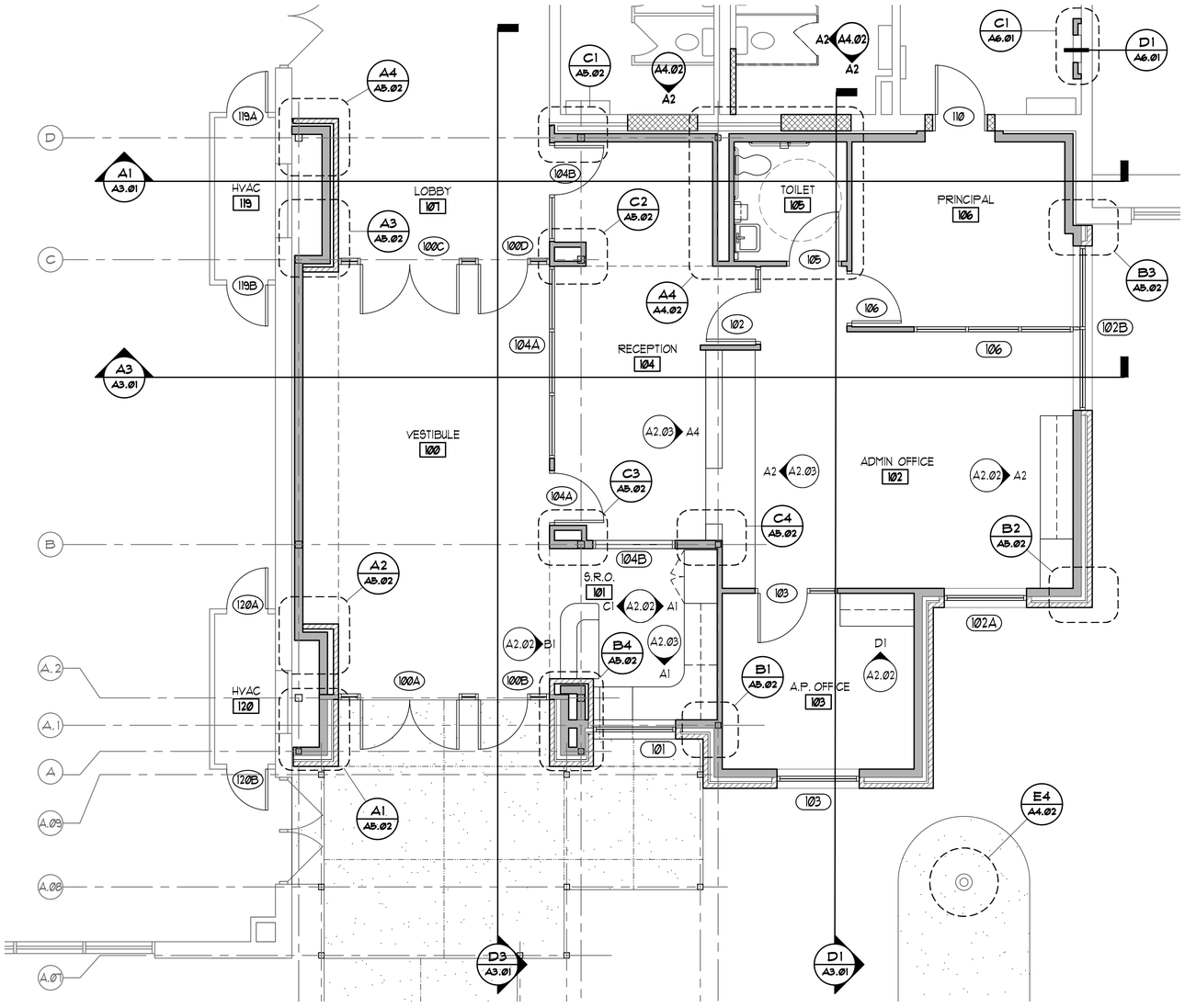
NOTE: PROVIDE NON-COM WOOD BLOCKING IN WALLS TO ANCHOR TOILET ACCESSORIES, TYP

BLOCK WALL REPAIR, PAINT & PREPARATION NOTES:

1. ALL PATCHING, REPAIR AND RENOVATION WORK SHALL MATCH, COMPLIMENT AND ALIGN WITH THE EXISTING ADJACENT CONDITIONS.
2. AREAS WHERE PREVIOUSLY PAINTED CMU WALL DEMOLITION ARE TO BE PERFORMED MUST BE SEALED OFF THOROUGHLY FROM ADJACENT AREAS, INCLUDING ALL ABOVE CEILING AREAS TO UNDERSIDE OF DECK ABOVE OR HORIZONTALLY ABOVE SPACES TO ADJACENT WALLS.
3. CMU SHALL BE CUT AND REMOVED GENERALLY USING WET METHODS TO MINIMIZE THE GENERATION OF AIRBORNE DUST AND DEBRIS. PERFORM SAWCUTS IN CMU OVER TAPED SURFACES.
4. EXISTING BULLETIN BOARDS, MARKER BOARDS AND TACKABLE SURFACES THROUGHOUT SEVERAL SPACES IN THE SCOPE OF WORK ARE ADHERED TO THE WALLS USING ADHESIVE. TAKE CARE WHEN REMOVING THESE ITEMS TO PRESERVE THE CMU SURFACE BELOW.
5. FILL ALL HOLES, SPALLS, DEFORMATIONS, CRACKS AND OTHER DEFECTS IN WALLS PRIOR TO PAINTING.
6. REMOVE ALL EMPTY, UNUSED AND/OR ABANDONED LEGACY WIRING AND WIREMOLD THROUGHOUT THE WORK AREA. CONFIRM WITH OWNER REPRESENTATIVE OR ARCHITECT/ENGINEER IF UNSURE IF AN ITEM MEETS THIS CRITERIA.
7. SCRAPE LOOSE PAINT FROM CMU WALLS. SAND SMOOTH AND PREP FOR PAINTING.
8. APPLY TWO FILLER COATS AND TWO FINISH COATS AT UNPAINTED BLOCK SURFACES.
9. PAINT ALL WALL SURFACES WITHIN THE SCOPE OF WORK AND MAKE REPAIRS TO ANY OTHER FINISHES THAT MAY BECOME DAMAGED DURING THE COURSE OF THE WORK.
10. REFER TO SPECIFICATION SECTION Ø12100, "ALLOWANCES" FOR SPECIFIC BID ALLOWANCES TO INCLUDE FOR REPAIRS DESCRIBED HEREIN THAT ARE NOT SHOWN OR SPECIFICALLY IDENTIFIED ON THE DRAWINGS.



A1 TOILET ELEVATIONS
SCALE: 1/4" = 1'-Ø"



ENLARGED OFFICE FLOOR PLAN
SCALE: 1/4"=1'-Ø"

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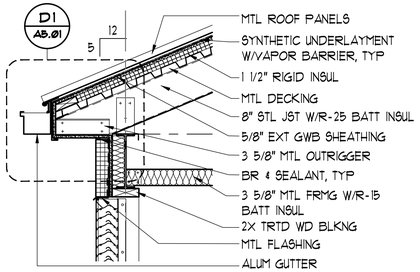
ARCHITECT

FEBRUARY 4, 2025

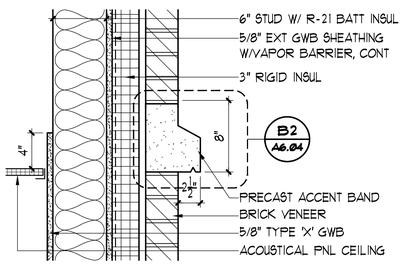
ENLARGED FLOOR PLAN - NOTATION PLAN & TOILET ELEVATIONS

JOB NUMBER 2312

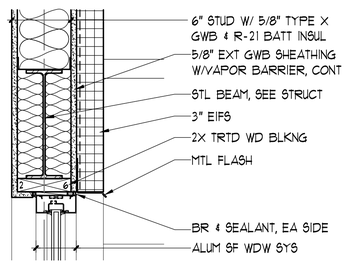
A4.02



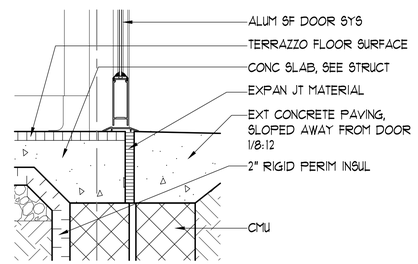
A4 DETAIL
SCALE: 3/4" = 1'-0"



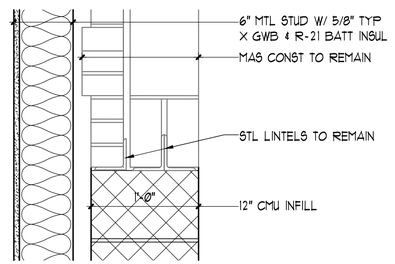
B4 DETAIL
SCALE: 1 1/2" = 1'-0"



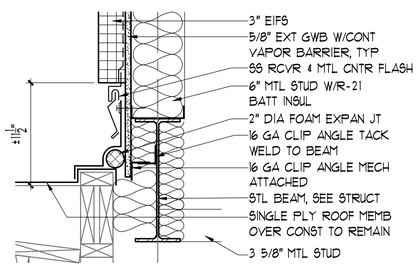
C4 DETAIL
SCALE: 1 1/2" = 1'-0"



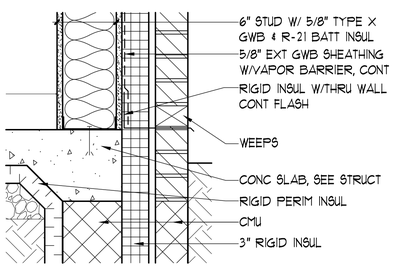
D4 DETAIL
SCALE: 1 1/2" = 1'-0"



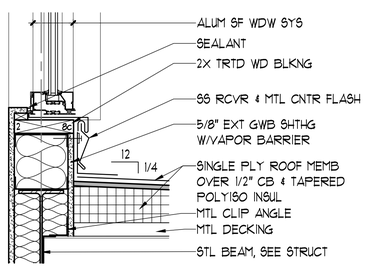
E4 DETAIL
SCALE: 1 1/2" = 1'-0"



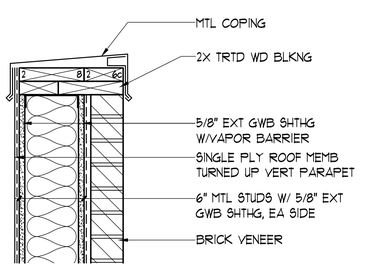
A3 DETAIL
SCALE: 1 1/2" = 1'-0"



B3 DETAIL
SCALE: 1 1/2" = 1'-0"



C3 DETAIL
SCALE: 1 1/2" = 1'-0"



D3 DETAIL
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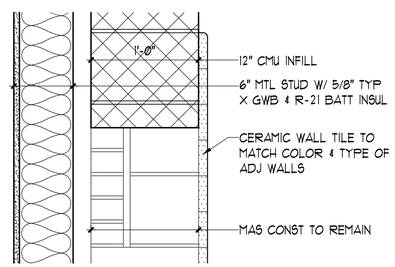
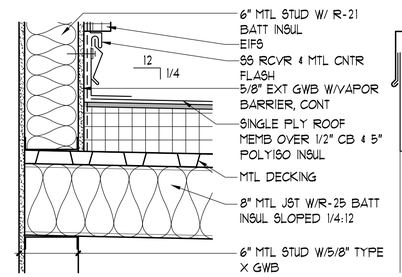
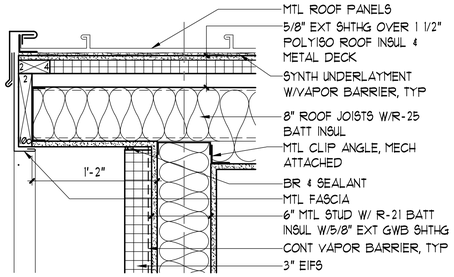


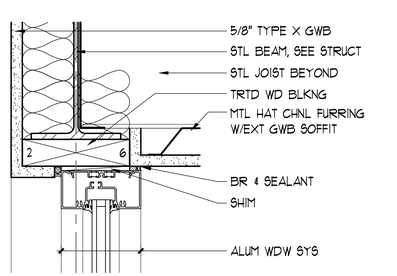
E3 DETAIL
SCALE: 1 1/2" = 1'-0"



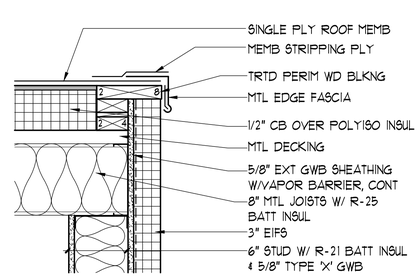
A2 DETAIL
SCALE: 1 1/2" = 1'-0"



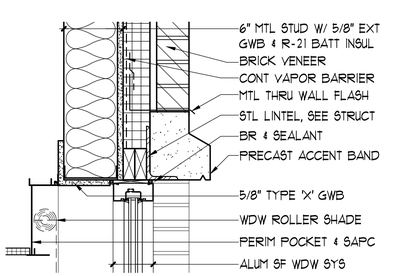
B2 DETAIL
SCALE: 1 1/2" = 1'-0"



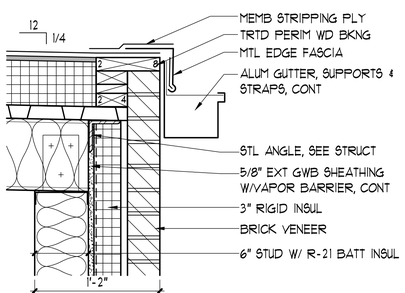
C2 DETAIL
SCALE: 3" = 1'-0"



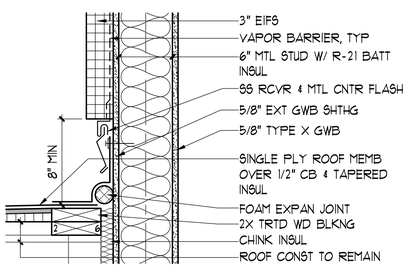
D2 DETAIL
SCALE: 1 1/2" = 1'-0"



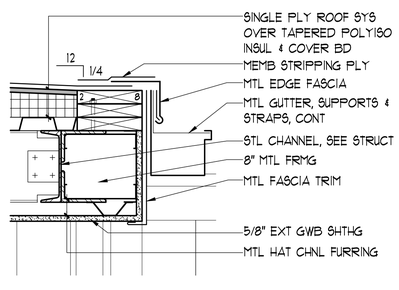
E2 DETAIL
SCALE: 1 1/2" = 1'-0"



A1 DETAIL
SCALE: 1 1/2" = 1'-0"



B1 DETAIL
SCALE: 1 1/2" = 1'-0"



C1 DETAIL
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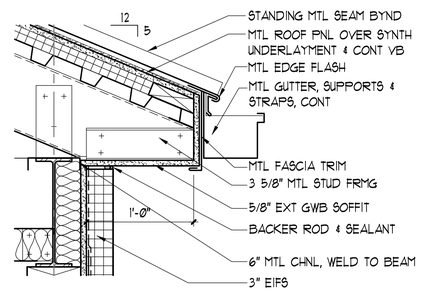

D1 DETAIL
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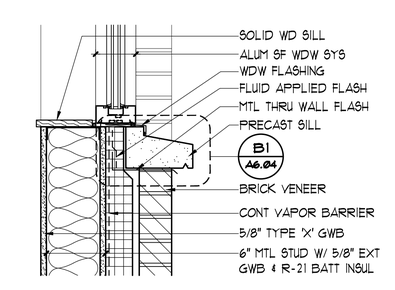

E1 DETAIL
SCALE: 1 1/2" = 1'-0"

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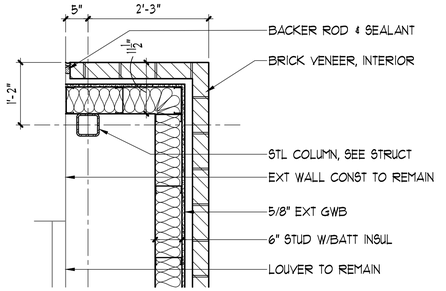
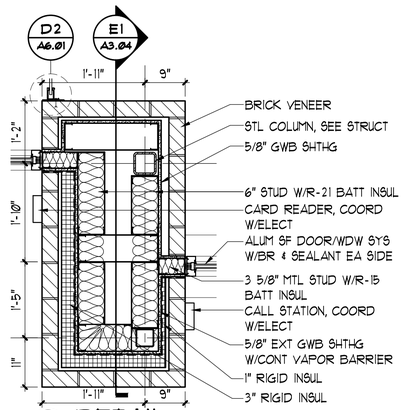
DETAILS

JOB NUMBER 2312

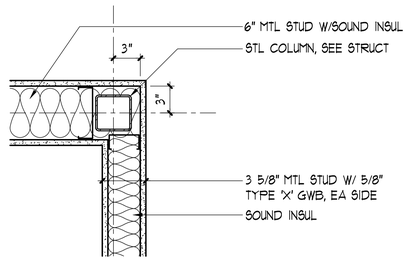
A5.01



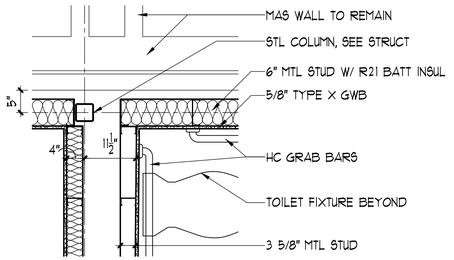
A4 DETAIL — VESTIBULE
SCALE: 3/4" = 1'-0"



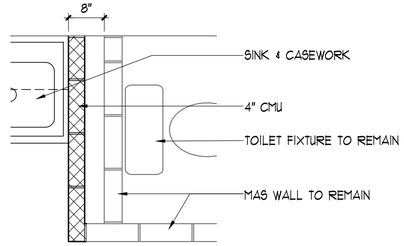
B4 DETAIL — VESTIBULE
SCALE: 3/4" = 1'-0"



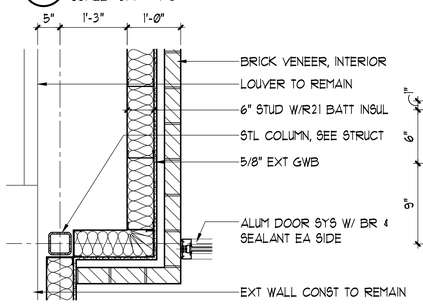
C4 DETAIL — RECEPTION
SCALE: 1 1/2" = 1'-0"



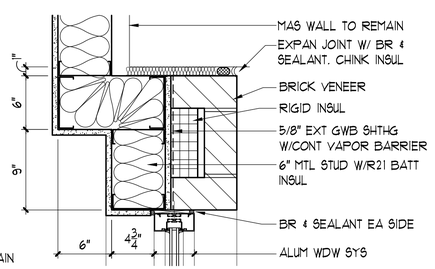
D4 DETAIL — TOILET
SCALE: 3/4" = 1'-0"



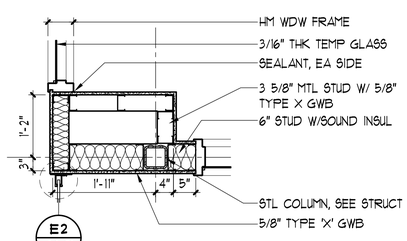
E4 DETAIL — STAFF LOUNGE
SCALE: 3/4" = 1'-0"



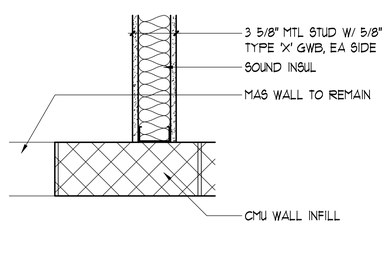
A3 DETAIL — VESTIBULE
SCALE: 3/4" = 1'-0"



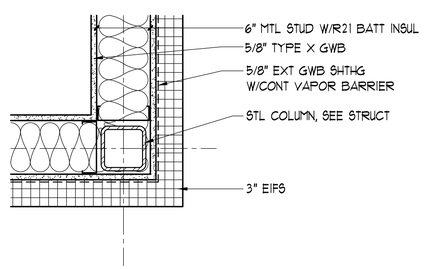
B3 DETAIL — VESTIBULE
SCALE: 1 1/2" = 1'-0"



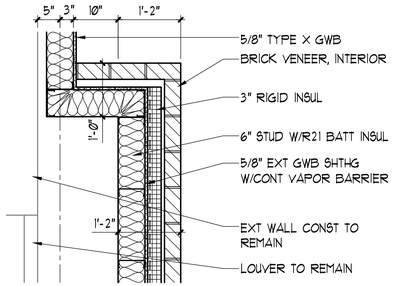
C3 DETAIL — RECEPTION
SCALE: 3/4" = 1'-0"



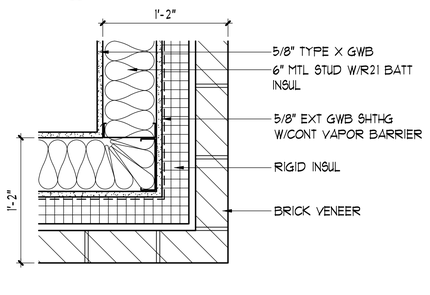
D3 DETAIL — CONF RM
SCALE: 1 1/2" = 1'-0"



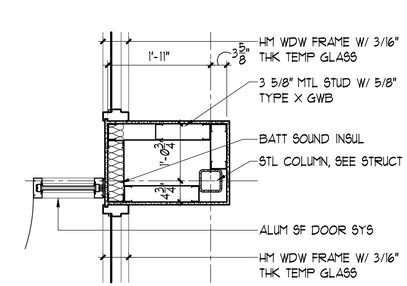
E3 DETAIL — VESTIBULE (HIGH)
SCALE: 1 1/2" = 1'-0"



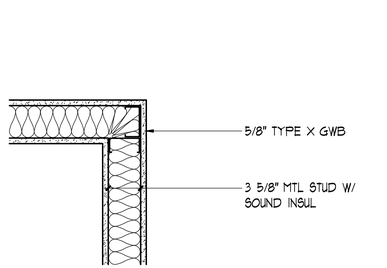
A2 DETAIL — VESTIBULE
SCALE: 3/4" = 1'-0"



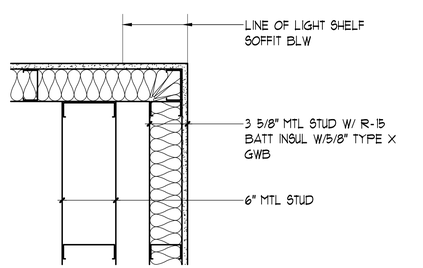
B2 DETAIL — VESTIBULE
SCALE: 1 1/2" = 1'-0"



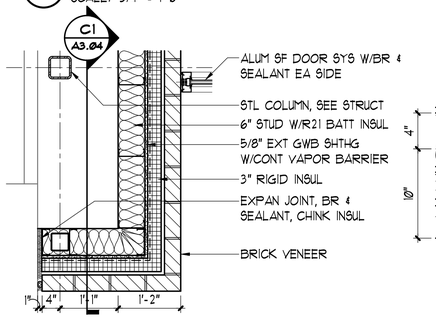
C2 DETAIL — RECEPTION
SCALE: 3/4" = 1'-0"



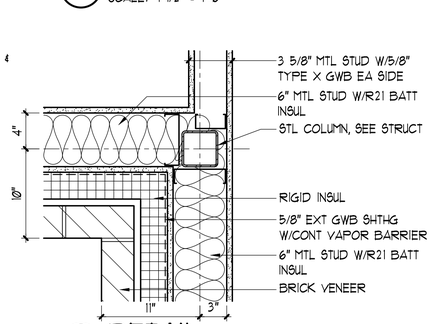
D2 DETAIL — CONF RM
SCALE: 1 1/2" = 1'-0"



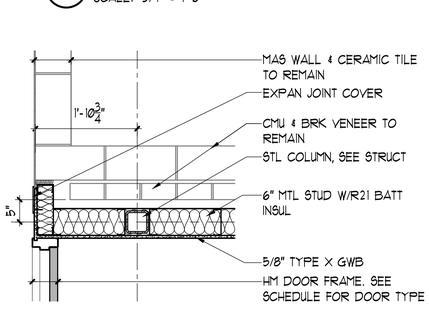
E2 DETAIL — VESTIBULE (HIGH)
SCALE: 1 1/2" = 1'-0"



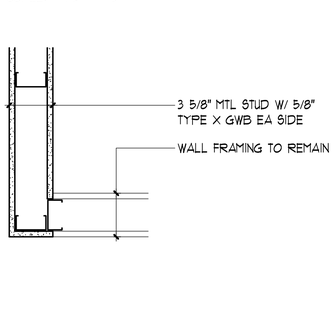
A1 DETAIL — VESTIBULE
SCALE: 3/4" = 1'-0"



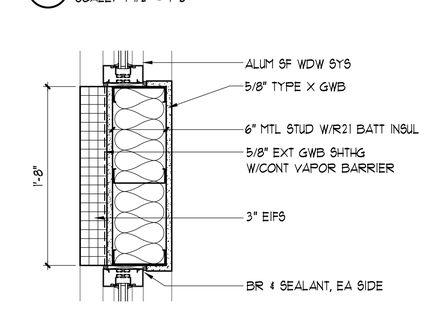
B1 DETAIL — VESTIBULE
SCALE: 1 1/2" = 1'-0"



C1 DETAIL — RECEPTION
SCALE: 3/4" = 1'-0"



D1 DETAIL — OFFICE 111
SCALE: 1 1/2" = 1'-0"



E1 DETAIL — VESTIBULE (HIGH)
SCALE: 1 1/2" = 1'-0"

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73 MAXWELL LANE
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RICHARD N. CORNER
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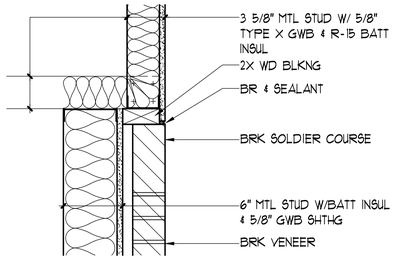
ARCHITECT

FEBRUARY 4, 2025

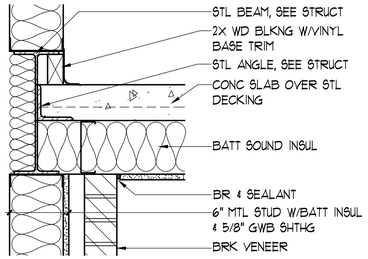
DETAILS

JOB NUMBER 2312

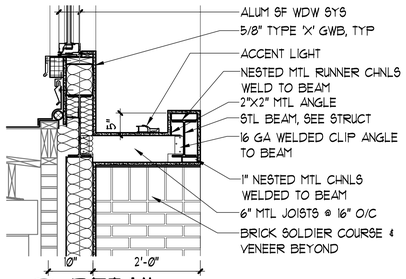
A5.02



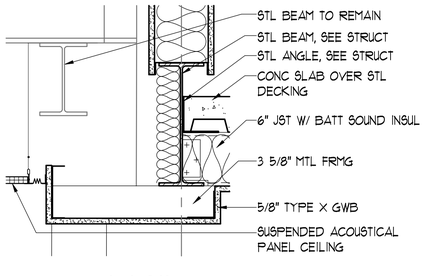
A4 DETAIL
SCALE: 1 1/2" = 1'-0"



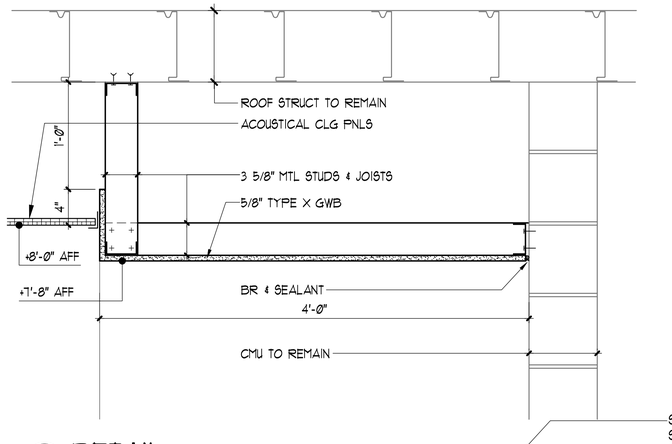
B4 DETAIL
SCALE: 1 1/2" = 1'-0"



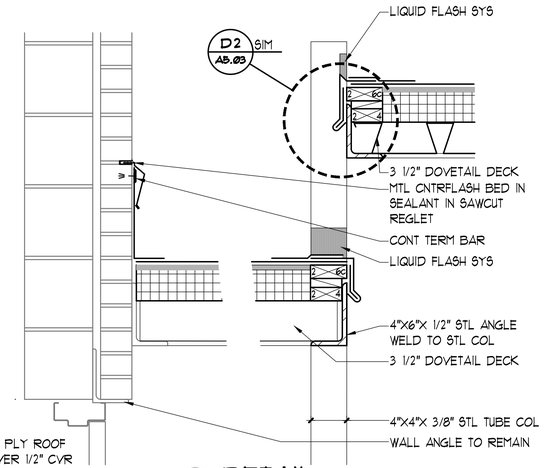
A3 DETAIL
SCALE: 3/4" = 1'-0"



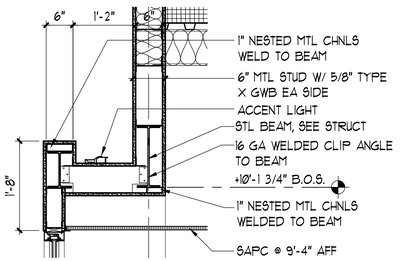
B3 DETAIL
SCALE: 1 1/2" = 1'-0"



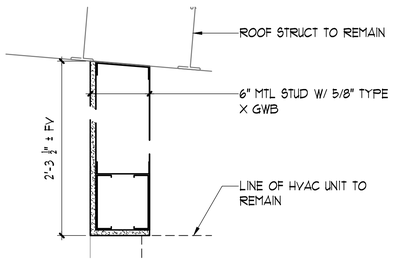
C3 DETAIL
SCALE: 1 1/2" = 1'-0"



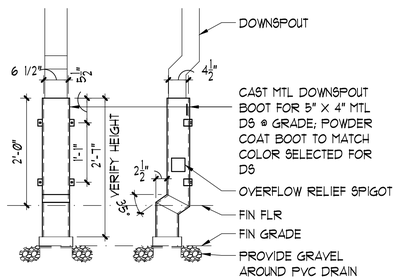
E3 DETAIL
SCALE: 1 1/2" = 1'-0"



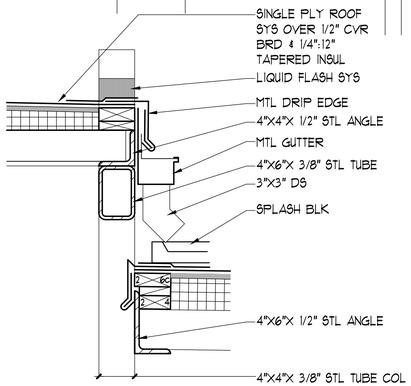
A2 DETAIL
SCALE: 3/4" = 1'-0"



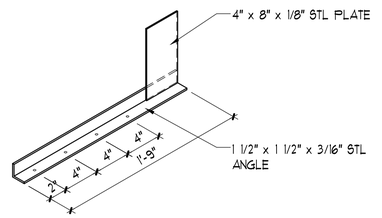
B2 DETAIL
SCALE: 1 1/2" = 1'-0"



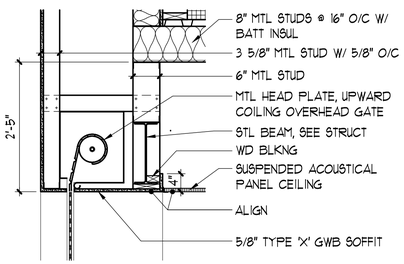
C2 DETAIL
SCALE: 3/4"=1'-0"



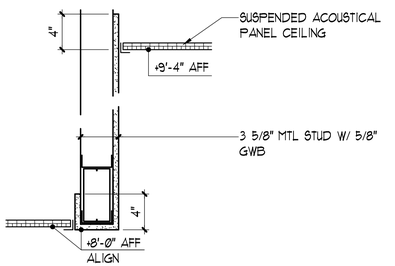
D2 DETAIL
SCALE: 1 1/2" = 1'-0"



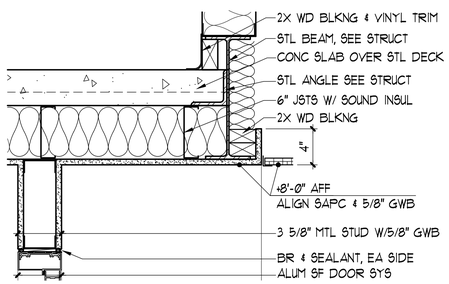
E2 DETAIL
PARAPET BRACKET
SCALE: NTS



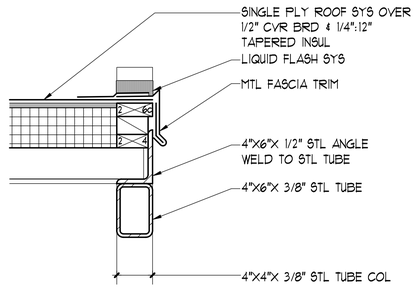
A1 DETAIL
SCALE: 3/4" = 1'-0"



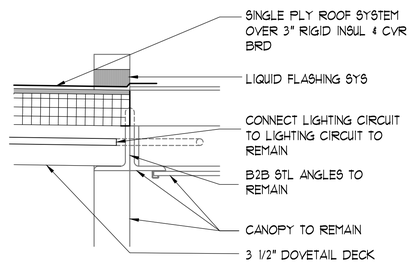
B1 DETAIL
SCALE: 1 1/2" = 1'-0"



C1 DETAIL
SCALE: 1 1/2" = 1'-0"



D1 DETAIL
SCALE: 1 1/2" = 1'-0"



E1 DETAIL
SCALE: 1 1/2" = 1'-0"

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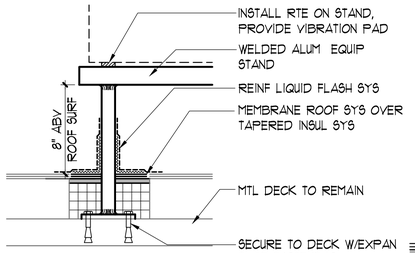
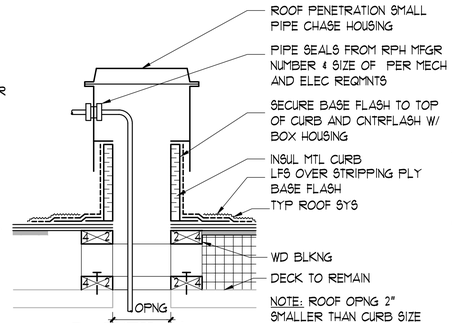
JOB NUMBER 2312

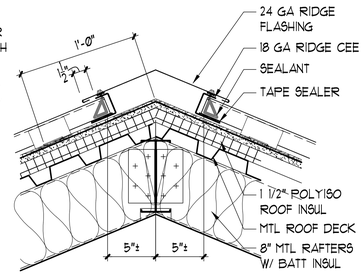
A5.03



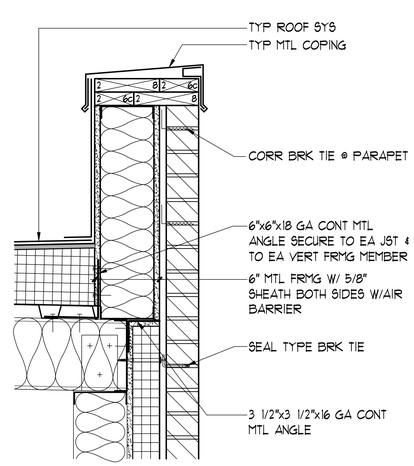
A4 **DETAIL**
SCALE: 1 1/2" = 1'-0"



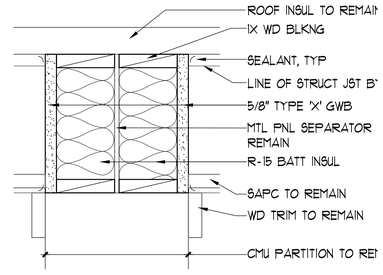
B4 **DETAIL**
SCALE: 1 1/2" = 1'-0"



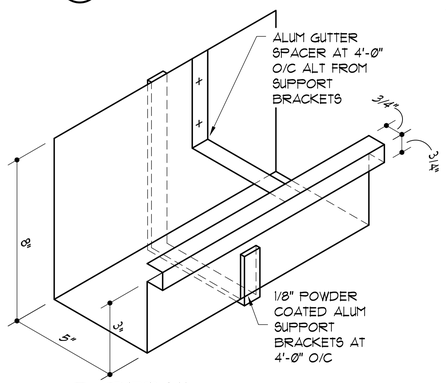
C4 **DETAIL** TYP RIDGE
SCALE: 1 1/2"=1'-0"



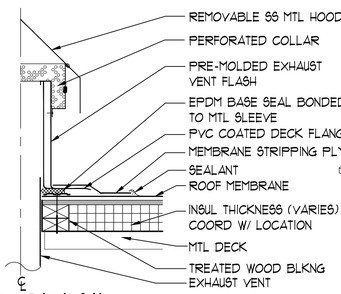
D4 **DETAIL**
SCALE: 1 1/2" = 1'-0"



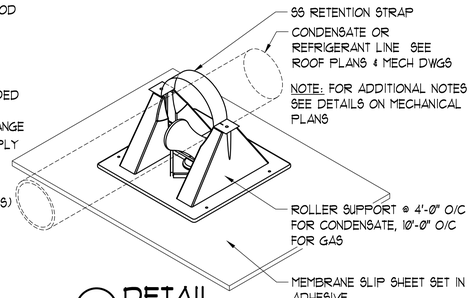
E4 **DETAIL**
SCALE: 1 1/2" = 1'-0"



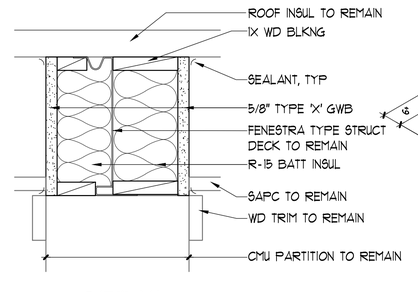
A3 **DETAIL** TYP GUTTER
NTS



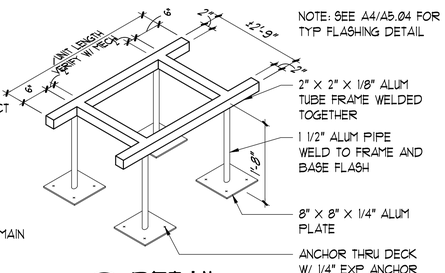
B3 **DETAIL**
SCALE: 1 1/2" = 1'-0"



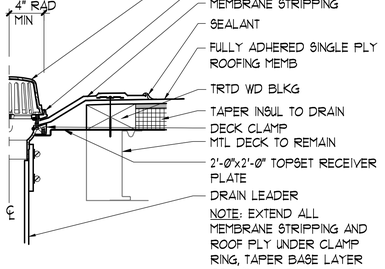
C3 **DETAIL**
SCALE: NTS



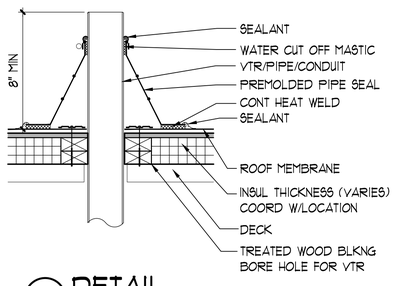
D3 **DETAIL**
SCALE: 1 1/2" = 1'-0"



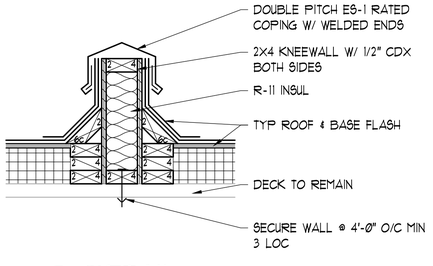
E3 **DETAIL**
SCALE: 3/4" = 1'-0"



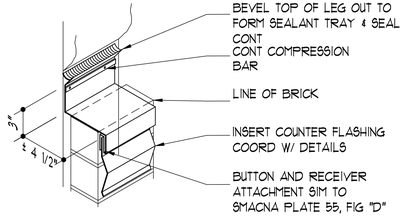
A2 **DETAIL**
SCALE: 1 1/2" = 1'-0"



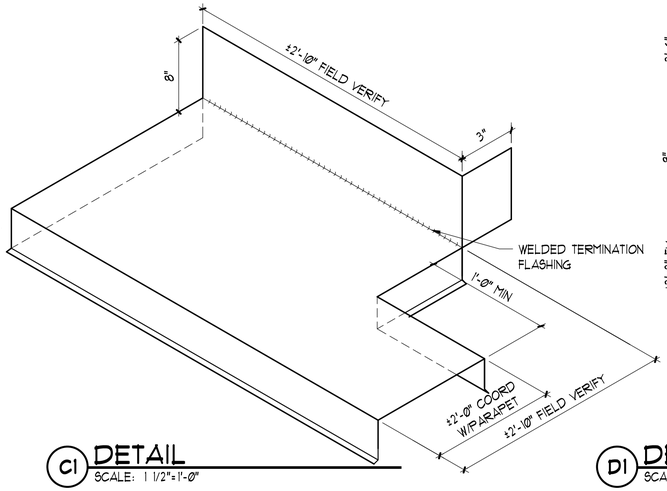
B2 **DETAIL**
SCALE: 1 1/2" = 1'-0"



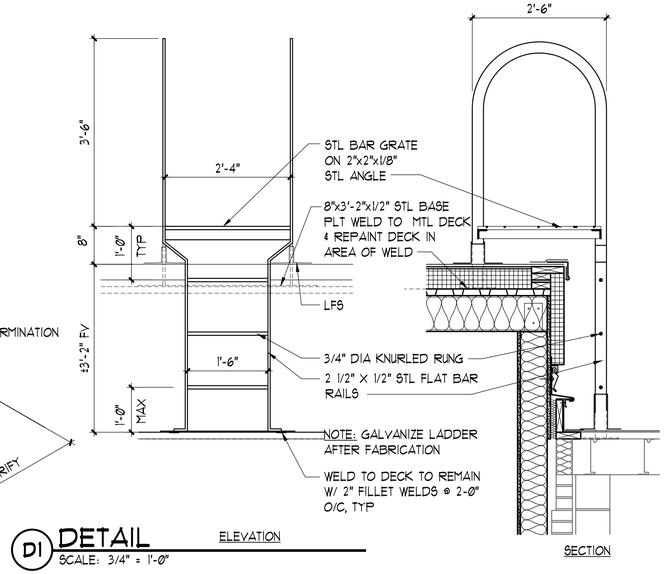
A1 **DETAIL** AREA DIVIDER
SCALE: 1 1/2"=1'-0"



B1 **DETAIL** TYP THRUWALL
SCALE: 1 1/2" = 1'-0"



C1 **DETAIL**
SCALE: 1 1/2"=1'-0"



D1 **DETAIL** ELEVATION
SCALE: 3/4" = 1'-0"

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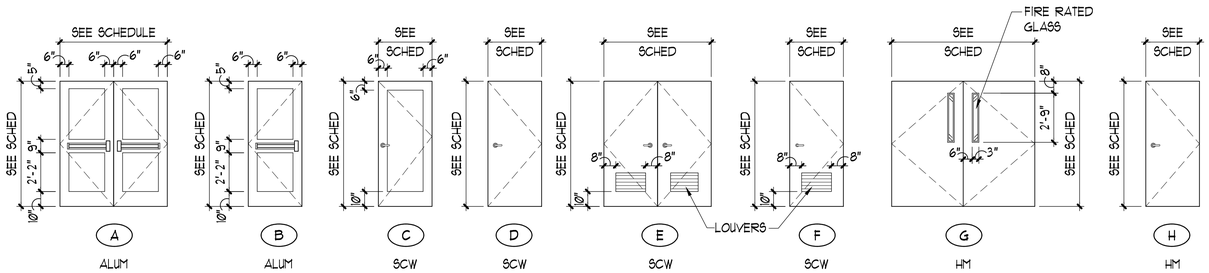
FEBRUARY 4, 2025

ROOF DETAILS

JOB NUMBER 2312

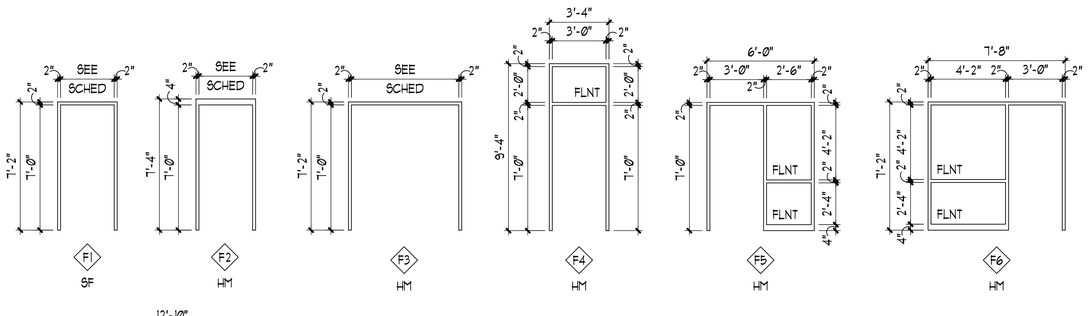
A5.04

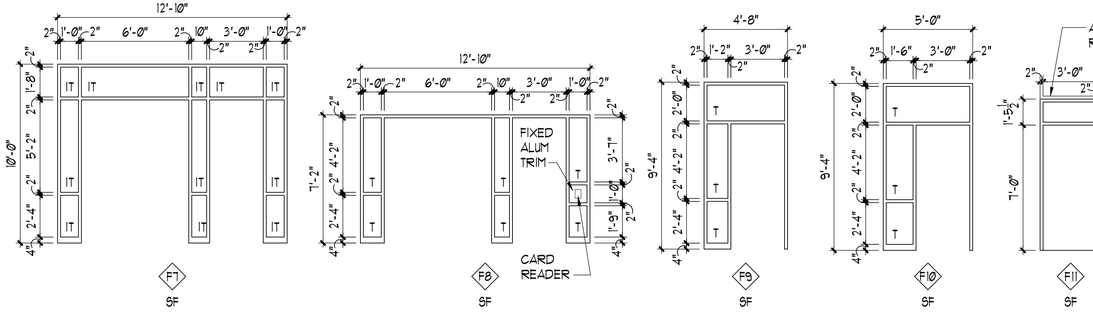


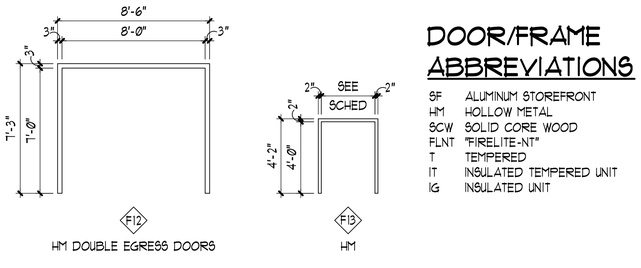
DOOR TYPES

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

NOTE: HANDING OF DOORS VARIES REFER TO PLAN







DOOR/FRAME ABBREVIATIONS

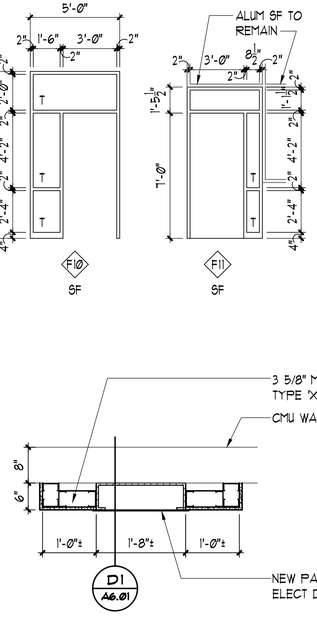
SF	ALUMINUM STOREFRONT
HM	HOLLOW METAL
SCW	SOLID CORE WOOD
FLNT	"FIRELITE-NT"
T	TEMPERED
IT	INSULATED TEMPERED UNIT
IG	INSULATED UNIT

DOOR FRAME TYPES

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

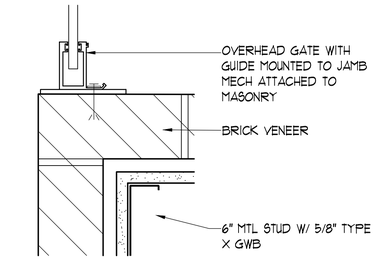
DOOR AND FRAME SCHEDULE

MARK	DOOR TYPE	DOOR LEAF SIZE WIDTH	DOOR LEAF SIZE HEIGHT	DOOR MATL	DOOR GLAZ	FRAME MATL	FRAME ELEV	FRAME DETAIL HEAD	FRAME DETAIL JAMB	FRAME DETAIL THRES	FIRE RATING	HDWE SET NO	NOTES
100A	A	PR 3'-0"	8'-0"	ALUM	INSUL TEMP	ALUM	F1	A4/A6.02	A3/A6.02	B2/A6.02	---	1	
100B	B	3'-0"	8'-0"	ALUM	INSUL TEMP	ALUM	F1	A4/A6.02	A3/A6.02	B2/A6.02	---	2	
100C	A	PR 3'-0"	7'-0"	ALUM	TEMP	ALUM	F8	B4/A6.02	B3/A6.02	---	---	3	
100D	B	3'-0"	7'-0"	ALUM	TEMP	ALUM	F8	B4/A6.02	A2/A6.02	---	---	4	
102	B	3'-0"	7'-0"	SCW	---	HM	F9	A1/A6.02	B1/A6.02	---	---	9	
103	D	3'-0"	7'-0"	SCW	---	HM	F10	C4/A6.02	C3/A6.02	---	---	9	
104A	B	3'-0"	7'-0"	SCW	TEMP	HM	F4	C4/A6.02	C3/A6.02	---	---	7	
104B	B	3'-0"	7'-0"	ALUM	TEMP	ALUM	F5	C4/A6.02	C2/A6.02	---	---	8	FLNT GLASS
105	D	3'-0"	7'-0"	SCW	---	HM	F1	C4/A6.02	C3/A6.02	---	---	10	1" UNDERCUT @ DOOR
106	D	3'-0"	7'-0"	SCW	---	HM	F1	C4/A6.02	C3/A6.02	---	---	9	
110	D	3'-0"	7'-0"	SCW	---	HM	F2	C1/A6.02	D4/A6.02	---	---	9	
111	D	3'-0"	7'-0"	SCW	---	HM	F6	D3/A6.02	D2/A6.02	---	---	11	FLNT GLASS
112	E	PR 2'-6"	7'-0"	HM	---	HM	F3	C4/A6.02	C3/A6.02	---	---	12	
119A	F	2'-6"	7'-0"	SCW	---	XHM	XF1	D1/A6.02	E4/A6.02	---	---	14	
119B	F	2'-6"	7'-0"	SCW	---	XHM	XF1	D1/A6.02	E4/A6.02	---	---	14	
120A	F	2'-6"	7'-0"	SCW	---	XHM	XF1	D1/A6.02	E4/A6.02	---	---	14	
120B	F	2'-6"	7'-0"	SCW	---	XHM	XF1	D1/A6.02	E4/A6.02	---	---	14	
121	B	3'-0"	7'-0"	ALUM	INSUL TEMP	ALUM	F11	E3/A6.02	E2/E3/A6.02	E1/A6.02	---	5	
122	G	PR 4'-0"	8'-0"	HM	90 MIN	HM	F12	A4/A6.03	A3/A6.03	---	90 MIN	6	
123	G	PR 4'-0"	8'-0"	HM	90 MIN	HM	F12	A4/A6.03	A3/A6.03	---	90 MIN	6	
201	H	3'-0"	4'-0"	HM	---	HM	F13	A2/A6.03	A1/A6.03	B4/A6.03	---	13	



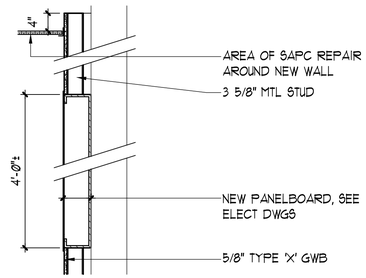
C1 DETAIL — SUPPLY 110

SCALE: 3/4" = 1'-0"



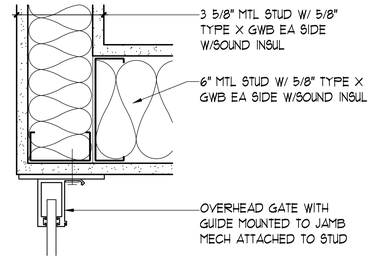
D2 DETAIL

SCALE: 3"=1'-0"



D1 DETAIL — SUPPLY 110

SCALE: 3/4" = 1'-0"



E2 DETAIL

SCALE: 3"=1'-0"

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SECURITY VESTIBULE & OFFICE ADDITION & & ALTERATIONS FOR YATES ELEMENTARY SCHOOL

73 MAXWELL LANE
NEWPORT NEWS, VIRGINIA 23606

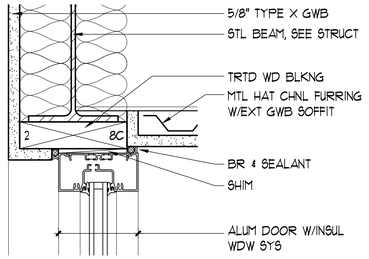
COMMONWEALTH OF VIRGINIA
RICHARD S. CORNER
Lic. No. 067014
12-30-24
ARCHITECT

FEBRUARY 4, 2025

DOOR SCHEDULES & DOOR DETAILS

JOB NUMBER 2312

A6.01



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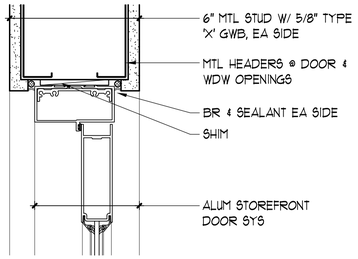

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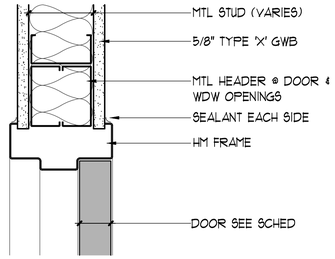

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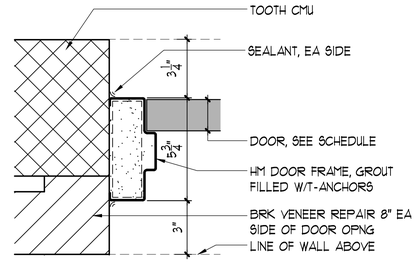

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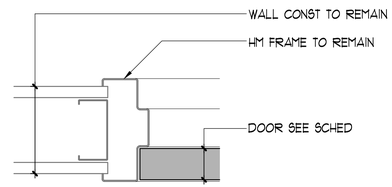

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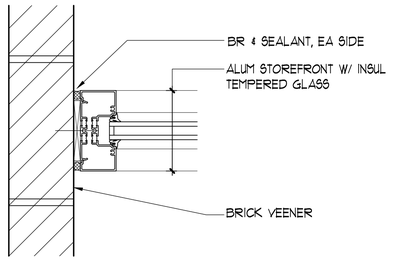

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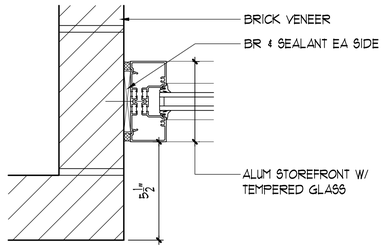

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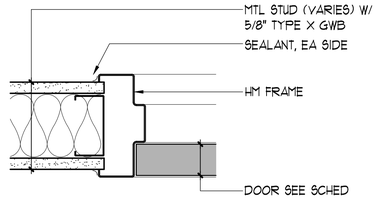

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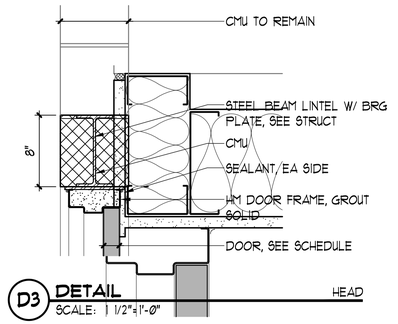

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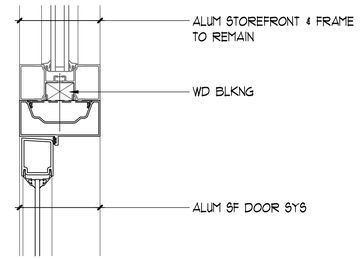

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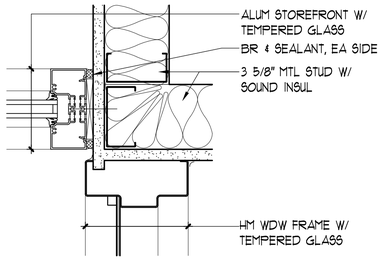

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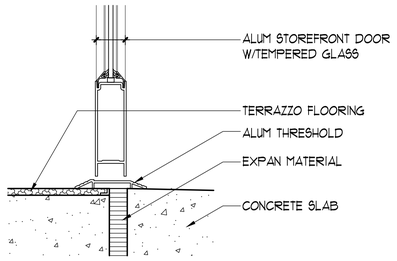

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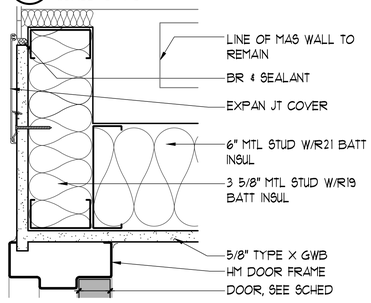

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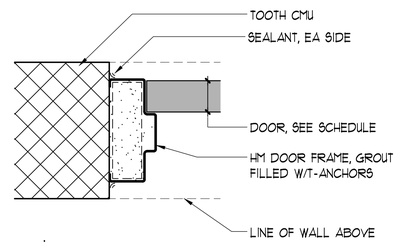

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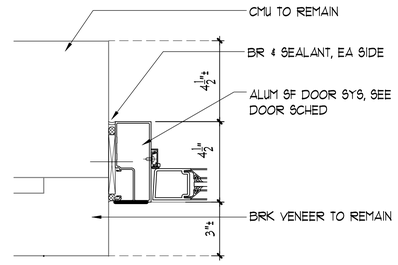

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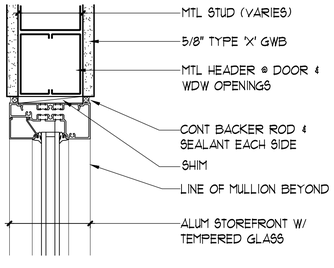
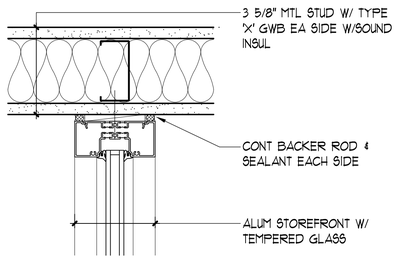


A1 **DETAIL** HEAD
SCALE: 3"=1'-0"



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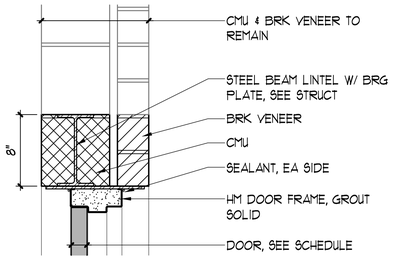

C1 **DETAIL** HEAD
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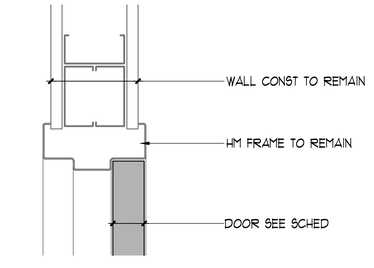

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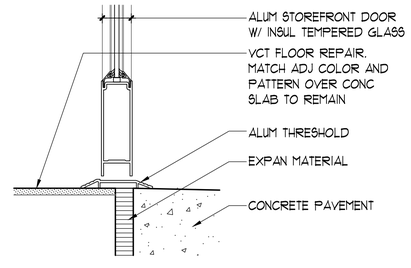

E1 **DETAIL** THRESHOLD
SCALE: 3"=1'-0"

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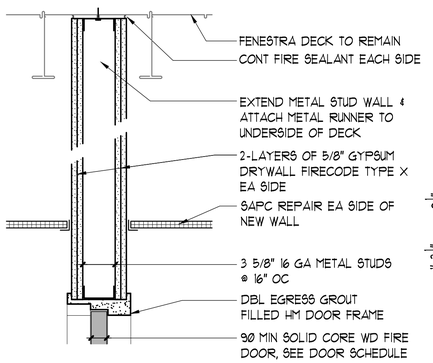
FEBRUARY 4, 2025

DOOR DETAILS

JOB NUMBER 2312

A6.02



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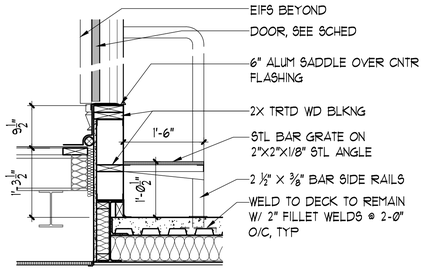

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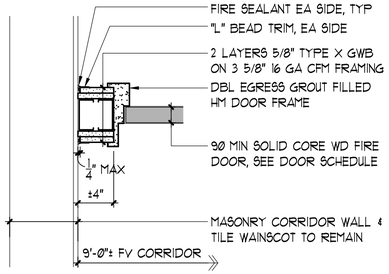

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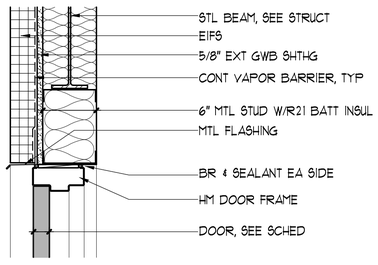

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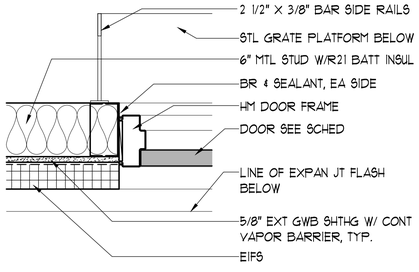

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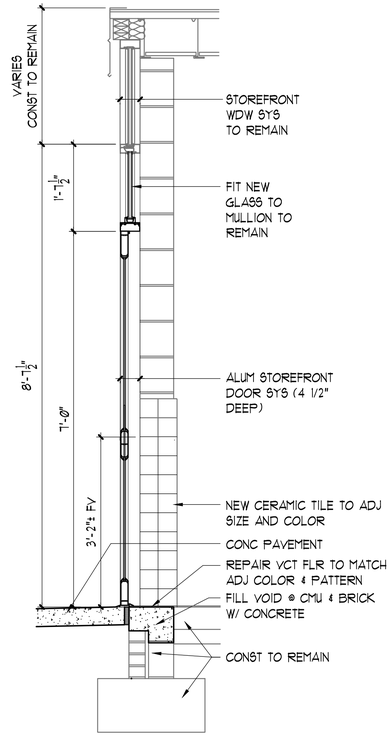

B1 SECTION
SCALE: 3/4"=1'-0"

ABBREVIATIONS:

ALUM	ALUMINUM
APC	ACOUSTICAL PANEL CEILING
BLK	CONCRETE MASONRY UNIT
BRK	BRICK VENEER
CONC	CONCRETE
CPT	CARPET
CT	CERAMIC TILE
EPXR	EPOXY RESINOUS FLOORING
FLNT	FIRE LITE LT GLASS
GWB	GYPSUM WALLBOARD (TYPE 'X'; ABUSE RESISTANT)
IT	INSULATED TEMPERED
INSUL	INSULATED
PCT	PORCELAIN CERAMIC TILE
PT	PAINT
RESIL	RESILIENT BASE TRIM
SAPC	SUSPENDED ACOUSTICAL PANEL CEILING
TZO	TERRAZZO FLOORING
VCT	VINYL COMPOSITE TILE
XAPC	EXISTING ACOUSTICAL PANEL CEILING
XBLK	EXISTING CONCRETE MASONRY UNIT
XBRK	EXISTING BRICK MASONRY
XCONC	EXISTING CONCRETE
XCT	EXISTING CERAMIC TILE
XGWB	EXISTING GYPSUM WALL BOARD
XRESIL	EXISTING RESILIENT BASE TRIM
XSAPC	EXISTING SUSPENDED ACOUSTICAL PANEL CEILING
XSTRUCT	EXISTING STRUCTURAL JOISTS
XTZO	EXISTING TERRAZZO FLOORING
XVCT	EXISTING VINYL COMPOSITION TILE

ROOM FINISH SCHEDULE

ROOM NO	ROOM NAME	FLOOR MATL	FLOOR FIN	BASE MATL	WALLS MATL	WALLS FIN	WALLS WSCOT	WALLS PAINT COLOR	CEILING MATL	CEILING FIN	CEILING HEIGHT	CEILING PAINT COLOR
100/200	VESTIBULE	CONC	TZO	RESIL	BRK	---	---		GWB	PT	VARIES	SW-7004 "SNOWBOUND"
					GWB	PT	---	SW-7014 "ELDER WHITE"				
101	S.R.O.	CONC	TZO	RESIL	BRK	---	---		GWB	PT	10'-0"	SW-7004 "SNOWBOUND"
					GWB	PT	---	SW-7014 "ELDER WHITE"	SAPC	---		
102	ADMIN OFFICE	CONC	CPT	RESIL	GWB	PT	---	SW-7014 "ELDER WHITE"	SAPC	---	9'-4"	
103	A.P. OFFICE	CONC	CPT	RESIL	GWB	PT	---	SW-7014 "ELDER WHITE"	SAPC	---	9'-4"	
104	RECEPTION	CONC	VCT	RESIL	GWB	PT	---	SW-7014 "ELDER WHITE"	SAPC	---	8'-0"	
									GWB	PT	8'-0"	SW-7004 "SNOWBOUND"
105	TOILET	CONC	EPXR	PCT	GWB	PT	---	SW-7014 "ELDER WHITE"	SAPC	---	8'-0"	
106	PRINCIPAL	CONC	CPT	RESIL	BLK	PT	---		SAPC	---	8'-0"	
					GWB	PT	---	SW-7014 "ELDER WHITE"				
107	LOBBY	XCONC	XTZO	XRESIL/RESIL	BRK	---	---		XSAPC	---	8'-0"±	SW-7004 "SNOWBOUND"
					GWB	PT	---	SW-7014 "ELDER WHITE"	SAPC	---		
					XBLK	PT	XCT	SW-7014 "ELDER WHITE" SW-6966 "BLUE BLOOD" SW-6868 "REAL RED"	GWB	PT		
108	GIRLS TOILET	XCONC	XCT	XCT	XBLK	PT	XCT		SW-7014 "ELDER WHITE"		XGWB	---	8'-0"±	SW-7004 "SNOWBOUND"
					BLK	PT	CT					
109	BOYS TOILET	XCONC	XCT	XCT	XBLK	PT	XCT		SW-7014 "ELDER WHITE"		XGWB	---	8'-0"±	SW-7004 "SNOWBOUND"
					BLK	PT	CT					
110	SUPPLY	XCONC	XVCT	XRESIL/RESIL	XBLK	PT	---		SW-7014 "ELDER WHITE"		SAPC	---	8'-0"±	
					BLK	PT						
110A	RESTROOM	XCONC	XCT	XCT	XBLK	PT	XCT 4'-0" HT		SW-7014 "ELDER WHITE"		XGWB	PT	8'-0"±	SW-7004 "SNOWBOUND"
					XCT	---						
111	OFFICE	XCONC	VCT	RESIL	XBLK	PT	---		SW-7014 "ELDER WHITE"		SAPC	---	8'-0"	
					BLK	PT	---					
					XGWB	PT	---					
					GWB	PT	---					
112	MECH	XCONC	VCT	RESIL	XBLK	PT	---		SW-7014 "ELDER WHITE"		---	---	VARIES	
					XGWB	PT	---					
					GWB	PT	---					
113	CLINIC	XCONC	XVCT	XRESIL	XBLK	PT	---		SW-7014 "ELDER WHITE"		APC	---	9'-4"±	
					BLK	PT	---				XSTRUCT	PT		SW-7004 "SNOWBOUND"
113A	CLOSET	XCONC	XVCT	XRESIL	XBLK	PT	---		SW-7014 "ELDER WHITE"		XSAPC	---	8'-0"±	PT ALL EXIST DR FRAMES SW-6966 "BLUE BLOOD"
114	CLOSET	XCONC	VCT	RESIL	XBLK	PT	---		SW-7014 "ELDER WHITE"		APC	---	9'-4"±	
					BLK	PT	---				XSTRUCT	PT		SW-7004 "SNOWBOUND"
115	CLOSET	XCONC	XVCT	XRESIL	XGWB	PT	---		SW-7014 "ELDER WHITE"		XGWB	PT	7'-11"±	SW-7004 "SNOWBOUND"
116	CONF. ROOM	XCONC	CPT	RESIL	XBLK	PT	---		SW-7014 "ELDER WHITE"		SAPC	---	8'-0"	
					BLK	PT	---							
					GWB	PT	---				GWB	PT	7'-8"	SW-7004 "SNOWBOUND"
117	WORK ROOM	XCONC	VCT	RESIL	XBLK	PT	---		SW-7014 "ELDER WHITE"		APC	---	9'-4"±	
					BLK	PT	---							
					GWB	PT	---				XSTRUCT	PT		SW-7004 "SNOWBOUND"
118	STAFF LOUNGE	XCONC	VCT	RESIL	XBLK	PT	---		SW-7014 "ELDER WHITE"		APC	---	9'-4"±	
					BLK	PT	---							
					GWB	PT	---				XSTRUCT	PT		SW-7004 "SNOWBOUND"
118A	RESTROOM	XCONC	XCT	XCT	XBLK	PT	XCT 4'-0" HT		SW-7014 "ELDER WHITE"		XGWB	PT	8'-0"±	SW-7004 "SNOWBOUND"
					XCT	---						
119	HVAC	XCONC	XVCT	XRESIL	XBLK	PT	---		SW-7014 "ELDER WHITE"		GWB	PT	9'-4"±	SW-7004 "SNOWBOUND"
					XGWB	PT						
120	HVAC	XCONC	XVCT	XRESIL	XBLK	PT	---		SW-7014 "ELDER WHITE"		GWB	PT	9'-4"±	SW-7004 "SNOWBOUND"
					XGWB	PT						
121	CAFETERIA	XCONC	VCT	RESIL	XBLK	PT	XCT		SW-7014 "ELDER WHITE"		XAPC	---	VARIES	
					BLK	PT	CT				XSTRUCT	---		
122	CORRIDOR	XCONC	XTZO	XCT	XBLK	PT	XCT 4'-0" HT	SW-7014 "ELDER WHITE" SW-6966 "BLUE BLOOD" SW-6868 "REAL RED"	XSAPC	---	8'-0"±	
					GWB	PT			SAPC	---		
123	CORRIDOR	XCONC	XTZO	XCT	XBLK	---	XCT 4'-0" HT	SW-7014 "ELDER WHITE" SW-6966 "BLUE BLOOD" SW-6868 "REAL RED"	XSAPC	---	8'-0"±	
					GWB	PT			SAPC	---		
124	COT ROOM	XCONC	XVCT	XRESIL	XBLK	PT	---	SW-7014 "ELDER WHITE"	XSAPC	---	8'-0"±	
124A	RESTROOM	XCONC	XCT	XCT	XBLK	PT	XCT 4'-0" HT	SW-7014 "ELDER WHITE"	XGWB	PT	8'-0"±	SW-7004 "SNOWBOUND"
					XCT	---						
124B	CLOSET	XCONC	XVCT	XRESIL	XBLK	PT	---	SW-7014 "ELDER WHITE"	XSAPC	---	8'-0"±	
125	OFFICE	XCONC	XVCT	XRESIL	XBLK	PT	---	SW-7014 "ELDER WHITE"	XSAPC	---	8'-0"±	
126	RESTROOM	XCONC	XCT	XCT	XBLK	PT	XCT 4'-0" HT	SW-7014 "ELDER WHITE"	XGWB	PT	8'-0"±	SW-7004 "SNOWBOUND"
					XCT	---						
127	CORRIDOR	XCONC	XTZO	XCT	XBLK	---	XCT 4'-0" HT	SW-7014 "ELDER WHITE" SW-6966 "BLUE BLOOD" SW-6868 "REAL RED"	XSAPC	---	8'-0"±	
					GWB	PT			SAPC	---		
201	MEZZANINE	CONC	CONC	---	---	---	---		---	---	8'-0"	

FINISH SCHEDULE GENERAL NOTES:

1. REFER TO SHEET A6.05 FOR FINISH COLOR SCHEDULE.
2. WHERE PERFORMING DEMOLITION AT WALLS, PATCHING OF SURFACES IS REQUIRED OR IMPLIED BY WORK NOTES ELSEWHERE ON THE DRAWINGS. PAINT ALL SURFACES TO BE PATCHED T O MATCH ADJACENT WALL COLOR.
3. WHERE EXISTING ROOMS ARE SCHEDULED TO BE PAINTED, PAINT ALL EXISTING WALL SURFACES, EXTERIORS OF BUILT-IN WOOD CABINETS, AND METAL DOOR FRAMES. DO NOT PAINT OVER EXISTING WALL WAINSCOT TILING.
4. REFER TO SHEET A4.02 FOR "BLOCK WALL REPAIR, PAINT AND PREPARATION NOTES," WHICH SHALL APPLY AT ALL EXISTING SPACES WHERE EXISTING WALLS ARE NOTED AS BLOCK OR CMU.

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RICHARD N. CORNER
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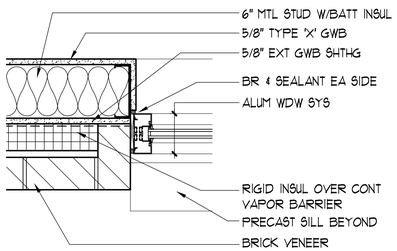
ARCHITECT

FEBRUARY 4, 2025

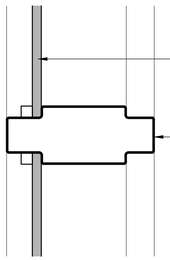
FINISH SCHEDULE & DOOR DETAILS

JOB NUMBER 2312

A6.03



A4 DETAIL — JAMB
SCALE: 1 1/2"=1'-0"



B4 DETAIL — MULLION
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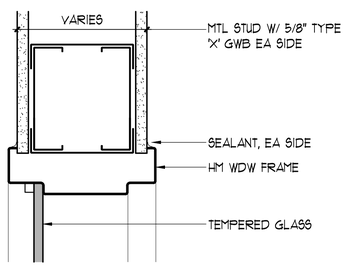
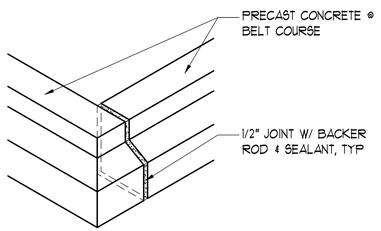
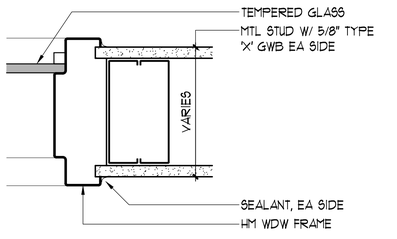


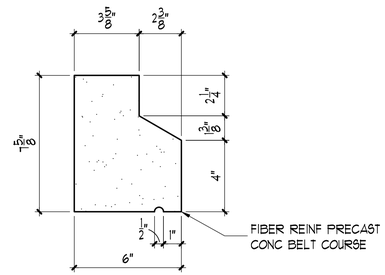
A3 DETAIL — HEAD
SCALE: 3" = 1'-0"



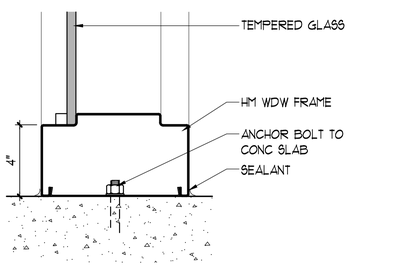
B3 DETAIL — TYP OUTSIDE CORNER
SCALE: 1 1/2"=1'-0"



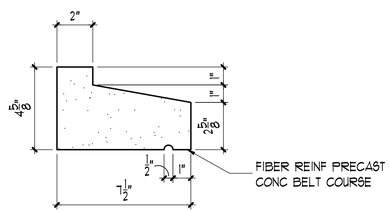
A2 DETAIL — JAMB
SCALE: 3" = 1'-0"



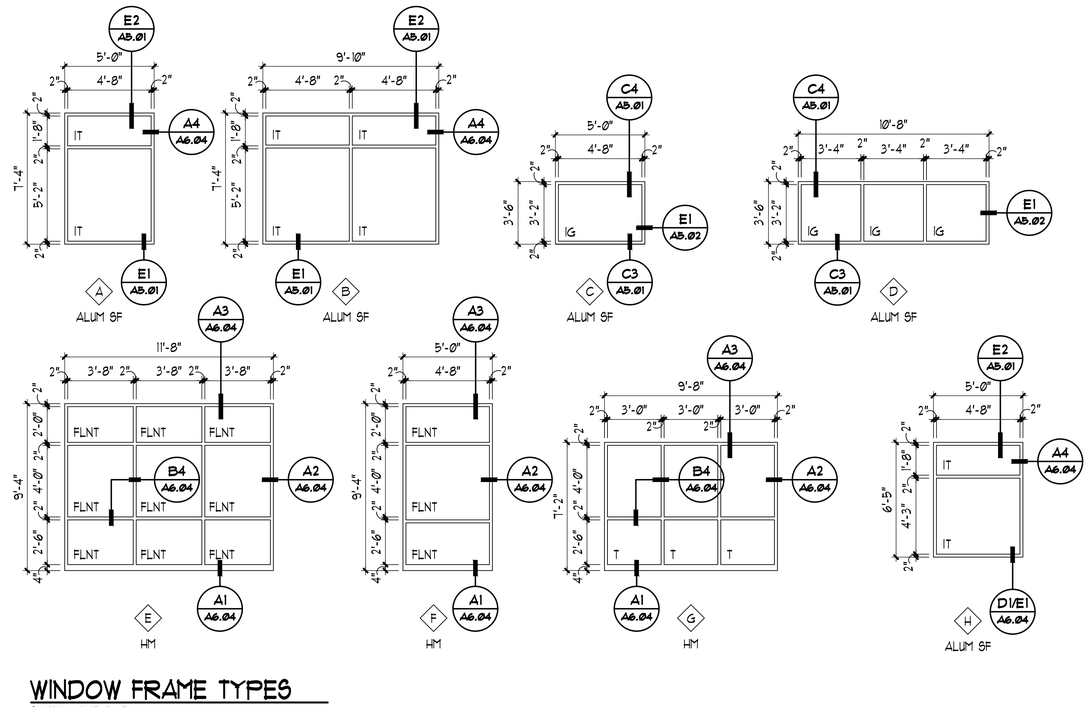
B2 SECTION — TYP BELT COURSE
SCALE: 3/4"=1'-0"



A1 DETAIL — SILL
SCALE: 3" = 1'-0"



B1 SECTION — TYP WINDOW SILL
SCALE: 3/4"=1'-0"



WINDOW FRAME TYPES

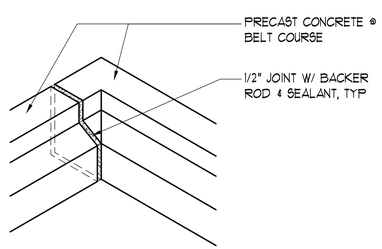
SCALE: 1/4"=1'-0"

WINDOW SCHEDULE

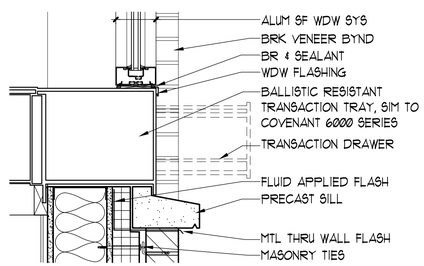
MARK	TYPE	FRAME				DETAILS			FIRE RATING	NOTES
		WIDTH	HEIGHT	GLAZ	MATL	HEAD	JAMB	SILL		
*Space not found*A	E	11'-8"	9'-4"	FLNT	HM	A3/A6.04	A2/A6.04	A1/A6.04	45 MIN	
*Space not found*B	F	5'-0"	9'-4"	FLNT	HM	A3/A6.04	A2/A6.04	A1/A6.04	45 MIN	
101	H	5'-0"	6'-5"	INSUL TEMP	ALUM	E2/A5.01	A4/A6.04	D1, E1/A5.01	--	
102A	A	5'-0"	7'-4"	INSUL TEMP	ALUM	E2/A5.01	A4/A6.04	E1/A5.01	--	
102B	B	10'-0"	7'-4"	INSUL TEMP	ALUM	E2/A5.01	A4/A6.04	E1/A5.01	--	
103	A	5'-0"	7'-4"	INSUL TEMP	ALUM	E2/A5.01	A4/A6.04	E1/A5.01	--	
106	G	9'-8"	7'-2"	FLNT	HM	A3/A6.04	A2/A6.04	A3/A6.04	45 MIN	
200A	D	10'-8"	3'-6"	INSUL TEMP	ALUM	C4/A5.01	E1/A5.02	C3/A5.01	--	
200B	C	5'-0"	3'-6"	INSUL TEMP	ALUM	C4/A5.01	E1/A5.02	C3/A5.01	--	
200C	C	5'-0"	3'-6"	INSUL TEMP	ALUM	C4/A5.01	E1/A5.02	C3/A5.01	--	
200D	C	5'-0"	3'-6"	INSUL TEMP	ALUM	C4/A5.01	E1/A5.02	C3/A5.01	--	

FRAME ABBREVIATIONS

ALUM SF	ALUMINUM STOREFRONT
FLNT	"FIRELITE-NT"
HM	HOLLOW METAL
IG	INSULATED GLASS
IT	INSULATED TEMPERED GLASS
T	TEMPERED GLASS
VG	VISION GLASS



C1 DETAIL — TYP INSIDE CORNER
SCALE: 1 1/2"=1'-0"



D1 DETAIL
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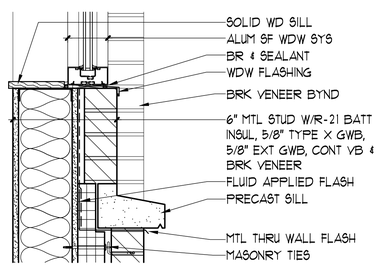

E1 DETAIL
SCALE: 1 1/2" = 1'-0"

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SECURITY VESTIBULE & OFFICE ADDITION & & ALTERATIONS FOR YATES ELEMENTARY SCHOOL

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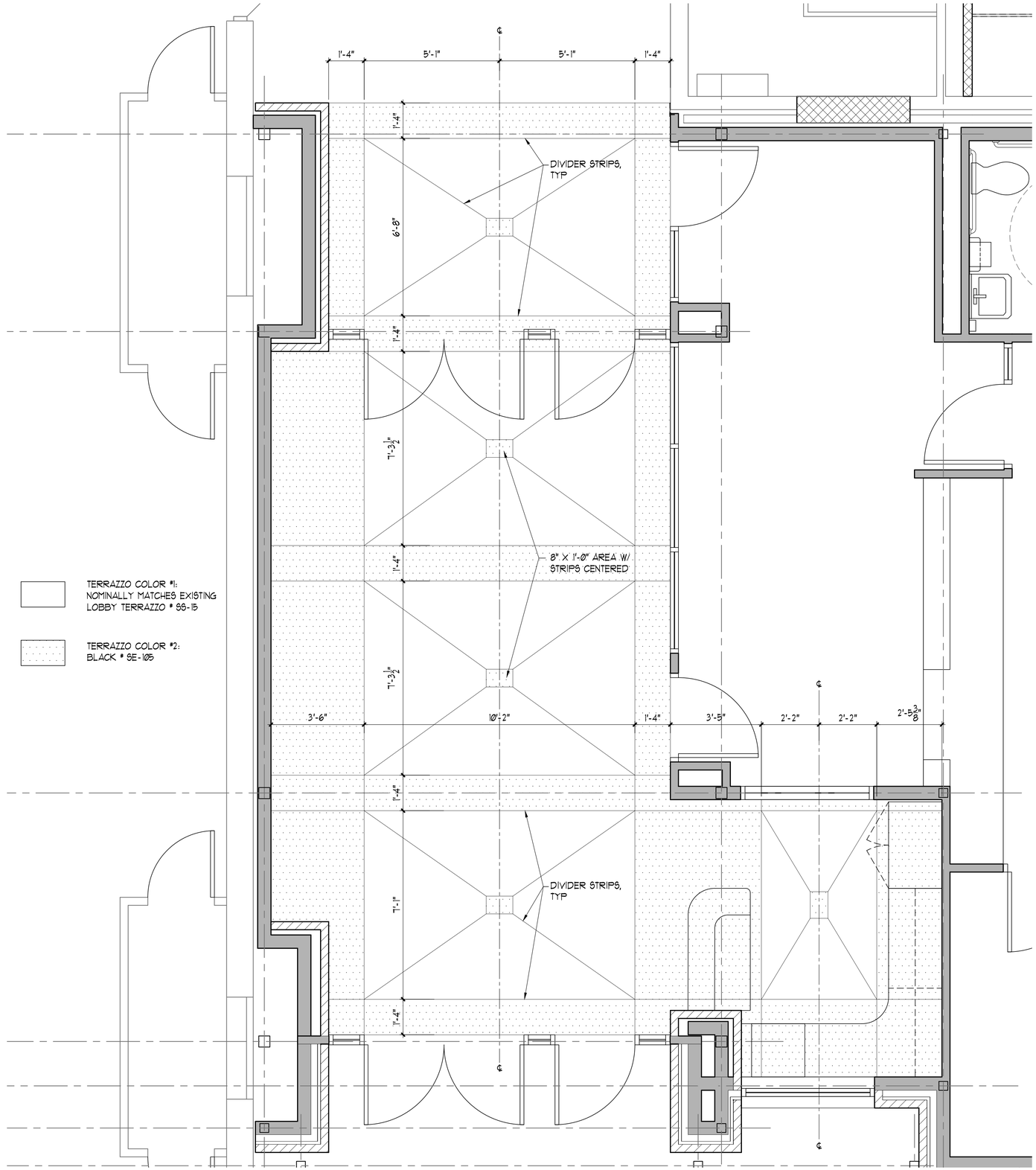
FEBRUARY 4, 2025

WINDOW FRAMES & DETAILS

JOB NUMBER 2312

A6.04



FLOOR PATTERN PLAN

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

COLOR SCHEDULE

EXTERIOR COLORS:

1. BRICK:
   - A. PRIMARY FIELD COLOR: TO MATCH GLEN-GERY/LAWRENCEVILLE "OLD RICHMOND" (SHADED VELOUR), MODULAR.
   - B. MORTAR COLOR: STANDARD LIGHT GRAY TO MATCH WORKRITE #WR-2410 "SLATE."
2. ALUMINUM STOREFRONT FRAMING & ENTRANCE DOORS: DARK BRONZE ANODIZED.
3. STANDING SEAM METAL ROOF: PAC-CLAD, "FOREST GREEN."
4. EXTERIOR SHEET METAL (EAVES, SOFFITS, FASCIAE, GUTTERS: BRIGHT WHITE PVDF FINISH. WHERE EXISTING GUTTERS REQUIRE REPAIR OR PARTIAL REPLACEMENT FABRICATE FROM DARK BRONZE PVDF-COATED ALUMINUM.
5. EXTERIOR SHEET METAL (DOWNSPOUTS): "CLASSIC BRONZE" PVDF FINISH TO EXISTING DOWNSPOUTS, WHERE INSTALLED OVER BRICK; "ALMOND" PVDF FINISH TO MATCH EIFS, WHERE INSTALLED OVER EXTERIOR INSULATION FINISH SYSTEM.
6. EXTERIOR INSULATION FINISH SYSTEM (EIFS): STO CORPORATION, #16000, OFF-WHITE, TO MATCH UPPER PANELS OF EXISTING AUDITORIUM.
7. EXISTING EXTERIOR DOORS AND FRAME (CAFETERIA EXIT): PAINT COLOR, SHERWIN-WILLIAMS SW-6279 "BLACK SWAN," SEMI-GLOSS.

INTERIOR COLORS:

8. TERRAZZO FLOOR AT VESTIBULE:
   - A. PRIMARY FIELD COLOR: TERRAZZCO, STANDARD SERIES, #S6-102, WHITE/GRAY/BROWN/BLACK.
   - B. ACCENT COLOR #1: TERRAZZCO SEMI-EXOTIC SERIES, #SE-105, BLACK WITH WHITE AND BROWN FLECKS.
9. INTERIOR ALUMINUM STOREFRONT WINDOW FRAMING: DARK BRONZE ANODIZED.
10. STEEL DOORS, DOOR FRAMES & STOREFRONT WINDOWS (INCLUDING FIRE-RATED):
    - A. NEW AND EXISTING H.M. FRAMES: PAINT COLOR, SHERWIN-WILLIAMS SW-7029 "AGREEABLE GRAY," SEMI-GLOSS, EXCEPT AS NOTED BELOW.
    - B. NEW AND EXISTING H.M. FRAMES WITHIN EXISTING SPACES AT CORRIDORS, CORRIDOR-SIDE ONLY: PAINT COLOR, SHERWIN-WILLIAMS SW-6966 "BLUE BLOOD," SEMI-GLOSS.
11. WOOD DOORS: NATURAL BIRCH, PLAINSLICED, STAINED TO MATCH VT INDUSTRIES "HERITAGE" COLLECTION, #AL-18 "ALPINE" FINISH WITH CLEAR SATIN.
12. DOOR HARDWARE: MATCH ANSI/BHMA #630 SATIN STAINLESS STEEL OR #626 SATIN CHROME FOR ITEMS AS SPECIFIED UNDER SPECIFICATION SECTION 087100.
13. CERAMIC WALL TILE/BASE:
    - A. NEW VESTIBULE & LOBBY: DAL-TILE COLOR WHEEL SERIES, "WHITE" (GLOSSY) #0100, 4-1/4 INCH BY 4-1/4 INCH.
    - B. NEW WALL TILE INSTALLATION, EXISTING CORRIDOR: DALTILE COLOR WHEEL CLASSIC, #K175, "BISCUIT," (GLOSSY) 4-1/4 INCH BY 4-1/4 INCH.
14. PAINT COLORS AT WALLS AND SOFFITS:
    - A. WALLS-FIELD COLOR (TYPICAL): NEWPORT NEWS PUBLIC SCHOOLS STANDARD OFF-WHITE; OR SHERWIN-WILLIAMS SW-7014 "ELDER WHITE," EGGSHELL SHEEN.
    - B. GWB SOFFITS & CEILINGS: SHERWIN-WILLIAMS SW-7004 "SNOWBOUND," EGGSHELL SHEEN.
    - C. EXISTING CORRIDOR ACCENT STRIPE (BLUE): SHERWIN-WILLIAMS SW-6966 "BLUE BLOOD," SEMI-GLOSS.
    - D. EXISTING CORRIDOR ACCENT STRIPE (RED): SHERWIN-WILLIAMS SW-6868 "REAL RED," SEMI-GLOSS.
15. VINYL COMPOSITION FLOOR TILE: ARMSTRONG FLOORING #52513, "CIRQUE WHITE."
16. CARPET (MODULAR): MANNINGTON "HALFTIME" STYLE, COLOR "COBB," 24" BY 24".
17. RESILIENT FLOOR BASE:
    - A. AT CARPET & VCT FLOORING: JOHNSONITE #18 "NAVY BLUE," 4-INCH HIGH.
18. RESINOUS EPOXY FLOORING: SOY RESIN SYSTEMS, "HOUNDSTOOTH."
19. ACOUSTICAL CEILING PANELS: USG INTERIORS, "RADAR EDUCATION ACOUSTICAL PANELS" 2'-0" BY 2'-0" BY 5/8-INCH, STANDARD WHITE.
20. INTERIOR WOODWORK, INCLUDING BASE AND WALL CABINETS: NATURAL BIRCH, PLAINSLICED, WITH STAIN AND CLEAR FINISH TO MATCH INTERIOR WOOD DOORS.
21. COUNTERTOPS, PLASTIC LAMINATE: FORMICA, #03706 "PATINE CONCRETE."
22. PLASTIC LAMINATE PANELS AT RECEPTION COUNTER: FORMICA, METAL SERIES, #06477 "SEASONED PLANKED ELM."
23. ROLLER WINDOW SHADES:
    - A. FABRIC: HUNTER DOUGLAS CONTRACT, SHEERWEAVE 4400, COLOR: "ECO-GRANITE."
    - B. ALUMINUM VALENCE AND HEADER ASSEMBLY: DARK BRONZE ALUMINUM TO MATCH EXTERIOR WINDOW FRAMES. CLEAR ANODIZED ALUMINUM TO MATCH INTERIOR H.M. FRAMES.

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FEBRUARY 4, 2025

FLOOR PATTERN PLAN & COLOR SCHEDULE

JOB NUMBER 2312

A6.05

ABBREVIATIONS

ADA	AMERICANS WITH DISABILITIES ACT	HWRS	HOT WATER RECIRCULATING SYSTEM
AFF	ABOVE FINISHED FLOOR	HZ	HERTZ
AHU-1	AIR HANDLING UNIT MARK	INV	INVERT
BV	BALANCING VALVE	LAV	LAVATORY
CO	CLEANOUT	OHD	OPEN HUB DRAIN
COP	CLEANOUT PLUG	OU	OUTDOOR UNIT
CU	CONDENSING UNIT	P-1	FIXTURE MARK
CW	COLD WATER	RD	ROOF DRAIN
D	CONDENSATE DRAIN	RL	RAIN LEADER
DSN	DOWNSPOUT NOZZLE	SF	SQUARE FEET
DWV	DRAIN, WASTE AND VENT	TYP	TYPICAL
EXIST	EXISTING	UR	URINAL
FCO	FLOOR CLEANOUT	V	VENT OR VOLTS
GPF	GALLONS PER FLUSH	VTR	VENT THRU ROOF
GPM	GALLONS PER MINUTE	W	SANITARY WASTE
HW	HOT WATER	WC	WATER CLOSET
HWR	HOT WATER RECIRCULATING	WCO	WALL CLEANOUT

GENERAL NOTES

1. FOR CONTINUATION OF PIPING BEYOND LIMITS OF BUILDING, SEE SITE PLAN.
2. PIPING SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.
3. REFER TO STRUCTURAL DRAWINGS FOR LOCATIONS OF COLUMNS, FOOTINGS, PIPE CAPS AND/OR GRADE BEAMS. COORDINATE ROUTING OF UNDERSLAB PLUMBING WITH STRUCTURAL DRAWINGS AND COMPLY WITH APPLICABLE NOTES AND DETAILS ON THOSE DRAWINGS. KEEP ALL PIPING CLEAR OF FOOTINGS. DO NOT PENETRATE FOOTINGS OR GRADE BEAMS.
4. PROVIDE PIPE SLEEVES LARGE ENOUGH TO ALLOW FOR LATERAL PIPE MOVEMENT.
5. FOR PIPE SIZES NOT SHOWN, SEE ISOMETRICS AND DIAGRAMS.
6. EXERCISE DUE CAUTION INSTALLING RUNOUTS AND BRANCH PIPING FROM MAINS TO ALLOW FOR EXPANSION MOVEMENT.
7. EXACT LOCATION OF ROOF DRAINS SHALL BE AS INDICATED ON ARCHITECTURAL DRAWINGS.
8. ARRANGE EXPOSED AND ABOVE CEILING PIPING TO CLEAR DUCTWORK, CONDUITS, LIGHT FIXTURES, ETC., AND ALLOW FOR PIPE HANGERS AND ACCESS TO VALVES.
9. OVERHEAD PIPING IN EXPOSED STRUCTURE AREAS SHALL BE RUN AS CLOSE TO ROOF DECK AS PRACTICABLE AND PARALLEL TO FRAMING WHEN POSSIBLE.
10. INSTALL ALL DOMESTIC WATER PIPING ON CONDITIONED SIDE OF BUILDING INSULATION.

LEGEND

- EXISTING COLD WATER PIPING
- CW — COLD WATER PIPING
- EXISTING HOT WATER PIPING
- HW — HOT WATER PIPING
- EXISTING HOT WATER RECIRCULATING PIPING
- HWR — HOT WATER RECIRCULATING PIPING
- RL — EXISTING RAIN LEADER PIPING
- RL — RAIN LEADER PIPING
- SAN — EXISTING SANITARY WASTE PIPING
- SAN — SANITARY WASTE PIPING
- ST — EXISTING STORM SEWER PIPING
- ST — STORM SEWER PIPING
- V — VENT PIPING
- PIPE UP
- PIPE DOWN
- DIRECTION OF FLOW IN PIPE
- CO — CLEANOUT - OUTSIDE OF BUILDING
- WCO — WALL CLEANOUT
- BALL VALVE
- CHECK VALVE
- BALL VALVE IN VERTICAL
- EXISTING GATE VALVE
- DSN — DOWNSPOUT NOZZLE
- EXISTING GATE VALVE IN RISER
- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- NEW WORK
- D1 — DEMOLITION NOTE
- 1 — NEW WORK NOTE
- 1 — SANITARY WASTE PIPING ISOMETRIC
- REMOVE EXISTING TO THIS POINT
- POINT OF CONNECTION FOR NEW WORK
- 1 / P2.01 — ENLARGED PLAN NUMBER; SHEET NUMBER WHERE ENLARGED PLAN IS SHOWN

GENERAL DEMOLITION NOTES

1. REFER TO ARCHITECTURAL PLANS FOR CUTTING AND PATCHING OF FLOORS, WALLS AND CEILINGS.
2. THE EXACT LOCATION OF HIDDEN PLUMBING WORK SUCH AS PIPING BELOW THE SLAB OR BELOW GRADE, OR INSIDE OF WALLS IS UNKNOWN. CONTRACTOR SHALL LOCATE ALL PIPING REQUIRED FOR DEMOLITION OR NEW CONNECTIONS USING LOCATING INSTRUMENTS AND/OR EXCAVATION METHODS AS REQUIRED. VERIFY ALL EXISTING PIPE SIZES, MATERIALS AND DEPTH PRIOR TO MAKING NEW CONNECTIONS. MODIFY EXISTING ROUGH-INS AS REQUIRED FOR NEW PLUMBING FIXTURES.
3. INVERTS OF EXISTING UNDERGROUND SANITARY PIPING IS UNKNOWN AND SHALL BE CHECKED AGAINST NEW CONNECTED PIPING LAYOUTS PRIOR TO NEW EXCAVATIONS AND PIPE INSTALLATION. CONTRACTOR SHALL ROUTE PIPING IN A MANNER TO MAINTAIN REQUIRED SLOPE ON PIPING AND MEET EXISTING INVERTS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AT HIS SOLE EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
5. COORDINATE WITH OWNER PRIOR TO SHUTTING OFF WATER SUPPLY OR DISRUPTING SEWER USAGE. REFER TO THE SPECIFICATION FOR PROCEDURES TO BE FOLLOWED. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING TOILETS AND OTHER PLUMBING FACILITIES WHILE SERVICES ARE NOT AVAILABLE FOR USE.
6. CONTRACTOR SHALL REPORT IMMEDIATELY TO THE ENGINEER ALL FIELD CONDITIONS ENCOUNTERED WHICH ARE NOT SHOWN ON THE DRAWINGS AND WHICH WERE NOT REASONABLY ANTICIPATED.
7. WHERE PIPING IS SHOWN TO BE ABANDONED, CAP ALL ABOVE AND BELOW GRADE PIPING FOR A PERMANENT WATERTIGHT SEAL.
8. DUE TO THE AGE OF THE BUILDING, THE CONTRACTOR SHALL ROD AND FLUSH EXISTING UNDERGROUND WASTE PIPING INDICATED TO BE REUSED OR REMAIN ACTIVE. ONCE THE PIPING HAS BEEN THOROUGHLY FLUSHED FREE OF ALL DEBRIS AND FUNCTIONING PROPERLY, THE PIPING SHALL BE INSPECTED WITH A CAMERA TO DETERMINE ITS CONDITION. ANY WEAKENED, WORN OR DAMAGED PIPING SHALL BE REPORTED TO THE ENGINEER.

NOTE: EXISTING CONDITIONS ILLUSTRATED HAVE BEEN DETERMINED FROM ORIGINAL CONSTRUCTION DOCUMENTS AND LIMITED NON-INVASIVE FIELD INVESTIGATION. THE CONTRACTOR SHALL INVESTIGATE FIELD CONDITIONS PRIOR TO COMMENCEMENT OF WORK, COORDINATE AND MAKE ADJUSTMENTS AS NECESSARY.

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SECURITY VESTIBULE & OFFICE ADDITION AND ALTERATIONS FOR YATES ELEMENTARY SCHOOL

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FEBRUARY 4, 2025

LEGEND, NOTES & ABBREVIATIONS

JOB NUMBER 2312

P0.01

PLUMBING FIXTURE SCHEDULE ①

MARK	FIXTURE	MANUFACTURER	MODEL NUMBER	MATERIAL	SIZE	MOUNTING HEIGHT	SUPPLY & DRAIN FITTING	SUPPLY STOPS	TRAP	PIPE ROUGH-IN SIZES				REMARKS
										W	V	HW	CW	
P-1	WATER CLOSET (ADA)	AMERICAN STANDARD	3461.001	VITREOUS CHINA	16-7/8" TO RIM	FLOOR MOUNTED	SLOAN ROYAL 111-1.6	-	-	4"	2"	-	1"	⑥ ⑦ SEAT: BEMIS 1955SSCT
P-2	LAVATORY (ADA)	AMERICAN STANDARD	0356.015	VITREOUS CHINA	20-1/2" x 18-1/4"	34" TO RIM	FAUCET: 8220 DRAIN: 155A	LOOSE KEY	17 GAUGE W/ CLEANOUT	1-1/2"	2"	1/2"	1/2"	② ③ ④
P-3	SINGLE BOWL SINK (HANDICAP)	JUST	SL-ADA-17519A55-J	STAINLESS STEEL	19" x 18" 5-1/2" DEEP	COUNTERTOP	FAUCET: 8225 DRAIN: J-35	LOOSE KEY	17 GAUGE W/ CLEANOUT	1-1/2"	2"	1/2"	1/2"	⑤ ⑧ ⑩

REMARKS:

① ALL FIXTURES TO BE LOW CONSUMPTION AND VANDAL RESISTANT.

② PROVIDE TRUEBRO UNDERSINK PIPE COVER KIT MODEL #102E-Z FOR ALL EXPOSED PIPING BELOW LAVATORY.

③ FAUCET BY MOEN, DRAIN BY MCGUIRE.

④ WITH 0.5 GPM, VANDAL-PROOF AERATOR.

⑤ FAUCET BY MOEN, DRAIN BY JUST.

⑥ MANUAL FAUCET WITH 1.5 GPM AERATOR.

⑦ 1.6 GPF MANUAL FLUSH VALVE.

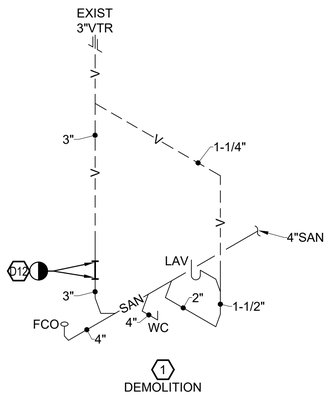
⑧ CENTER DRAIN AT REAR OF BOWL, FAUCET DECK PUNCHED WITH THREE HOLES FOR FAUCET.

PLUMBING DRAIN AND EQUIPMENT SCHEDULE

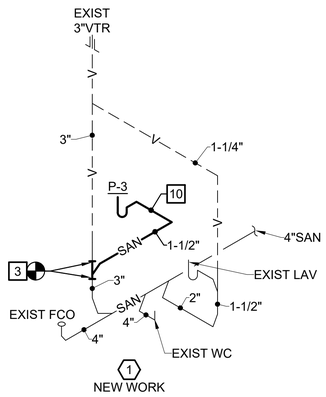
ITEM	MANUFACTURER	MODEL NUMBER	REMARKS
ROOF DRAIN (RD)	J.R. SMITH	1010Y-R-C-AD-U	WITH VANDAL-PROOF ALUMINUM DOME.
WALL HYDRANT (WH)	WOODFORD	MODEL 65	WITH LOOSE KEY AND VACUUM BREAKER. MOUNT WITH CENTERLINE 18" AFF.
DOWNSPOUT NOZZLE (DSN)	J.R. SMITH	1770-NB-BS	NICKEL BRONZE WITH BIRD SCREEN. MOUNT WITH CENTERLINE 18" AFF.
HOT WATER RECIRCULATING SYSTEM (HWRS)	AQUAMOTION	AMH3K-7N(N)	0.6 AMPS, 120V, 60 HZ, WITH PLUG-IN CORD, NO TIMER, HOSES, FITTINGS AND CHECK VALVES INCLUDED. LOCATE INSIDE CASEWORK IN STAFF LOUNGE 111 WHERE INDICATED PER MANUFACTURER'S INSTRUCTIONS.

DEMOLITION NOTES	
NO.	DESCRIPTION
D3	REMOVE STORM DRAIN TO LIMITS INDICATED.
D4	REMOVE WASTE PIPING TO LIMITS INDICATED.
D10	FLOOR CLEANOUT TO REMAIN. CUT AND CAP AND ABANDON WASTE PIPING WHERE INDICATED.
D12	REMOVE VERTICAL PIPING TO FACILITATE INSTALLATION OF WASTE PIPING FROM NEW SINK.

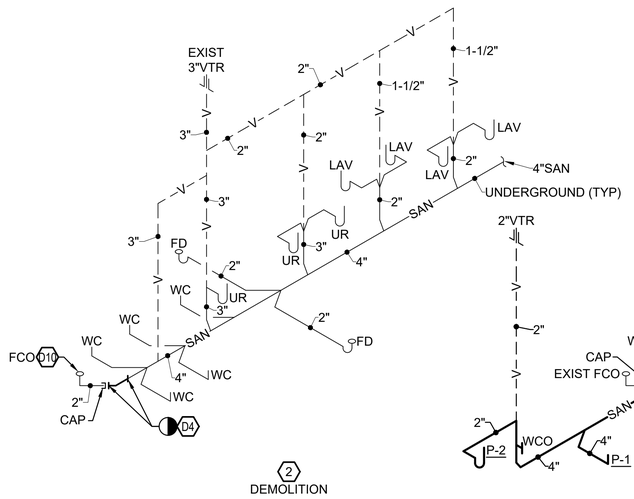
NEW WORK NOTES	
NO.	DESCRIPTION
3	PROVIDE NEW WASTE PIPING FROM SINK. CONNECT TO EXISTING PIPING.
4	CONNECT NEW 4" WASTE PIPING TO EXISTING PIPING. EXTEND NEW PIPING TO NEW FIXTURES IN TOILET 105.



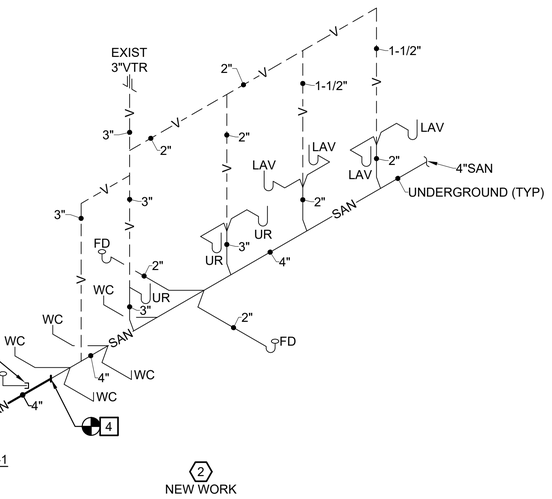
① DEMOLITION



① NEW WORK



② DEMOLITION



② NEW WORK

SANITARY WASTE PIPING ISOMETRICS

NOT TO SCALE

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SECURITY VESTIBULE & OFFICE ADDITION AND ALTERATIONS FOR YATES ELEMENTARY SCHOOL

73 MAXWELL LN, NEWPORT NEWS
VA 23606

COMMONWEALTH OF VIRGINIA
KEVIN D. ALLEN
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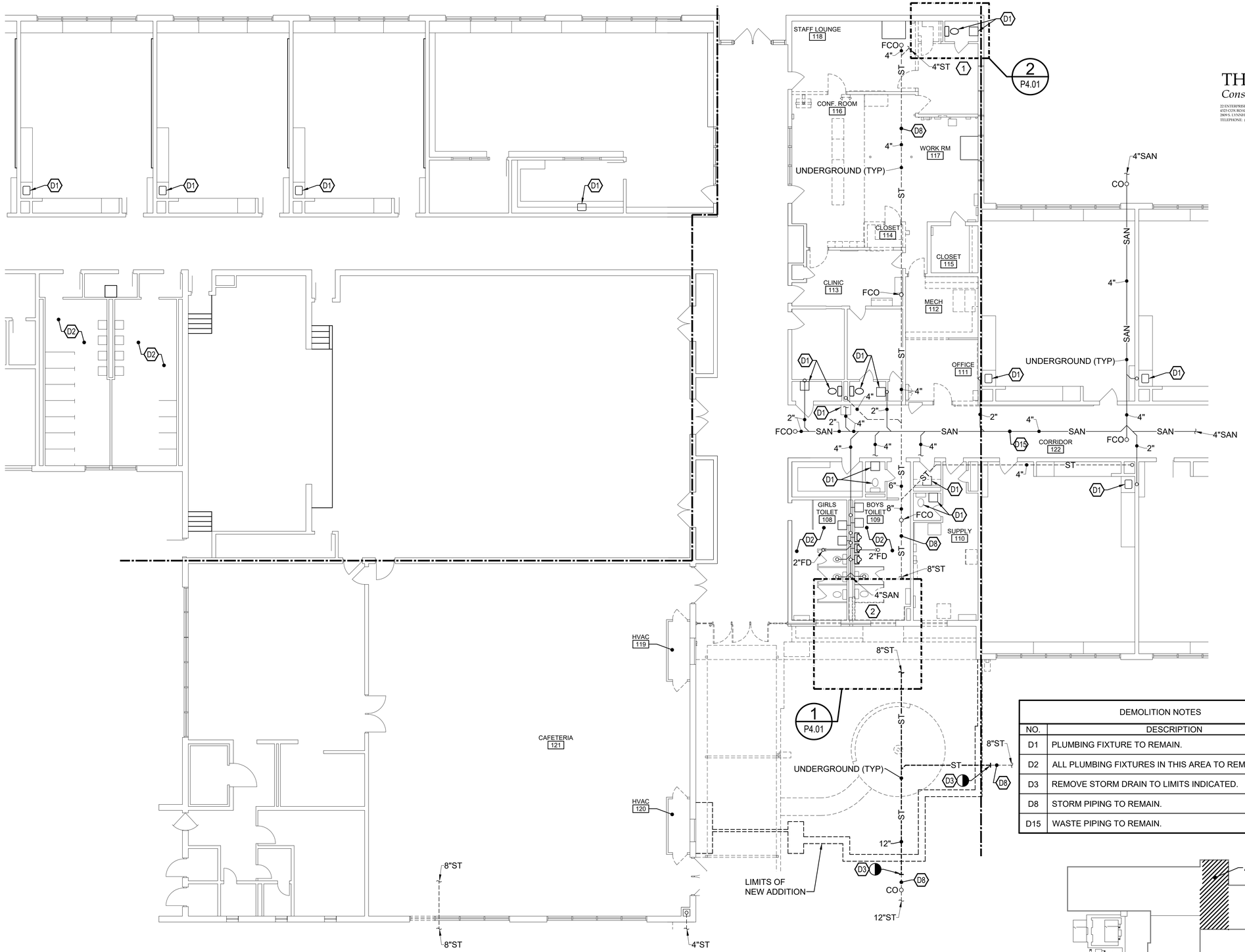
FEBRUARY 4, 2025

PLUMBING SCHEDULES

JOB NUMBER 2312

P0.02



DEMOLITION NOTES	
NO.	DESCRIPTION
D1	PLUMBING FIXTURE TO REMAIN.
D2	ALL PLUMBING FIXTURES IN THIS AREA TO REMAIN.
D3	REMOVE STORM DRAIN TO LIMITS INDICATED.
D8	STORM PIPING TO REMAIN.
D15	WASTE PIPING TO REMAIN.

DEMOLITION FLOOR PLAN - DRAIN, WASTE & VENT

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

KEY PLAN

NOT TO SCALE

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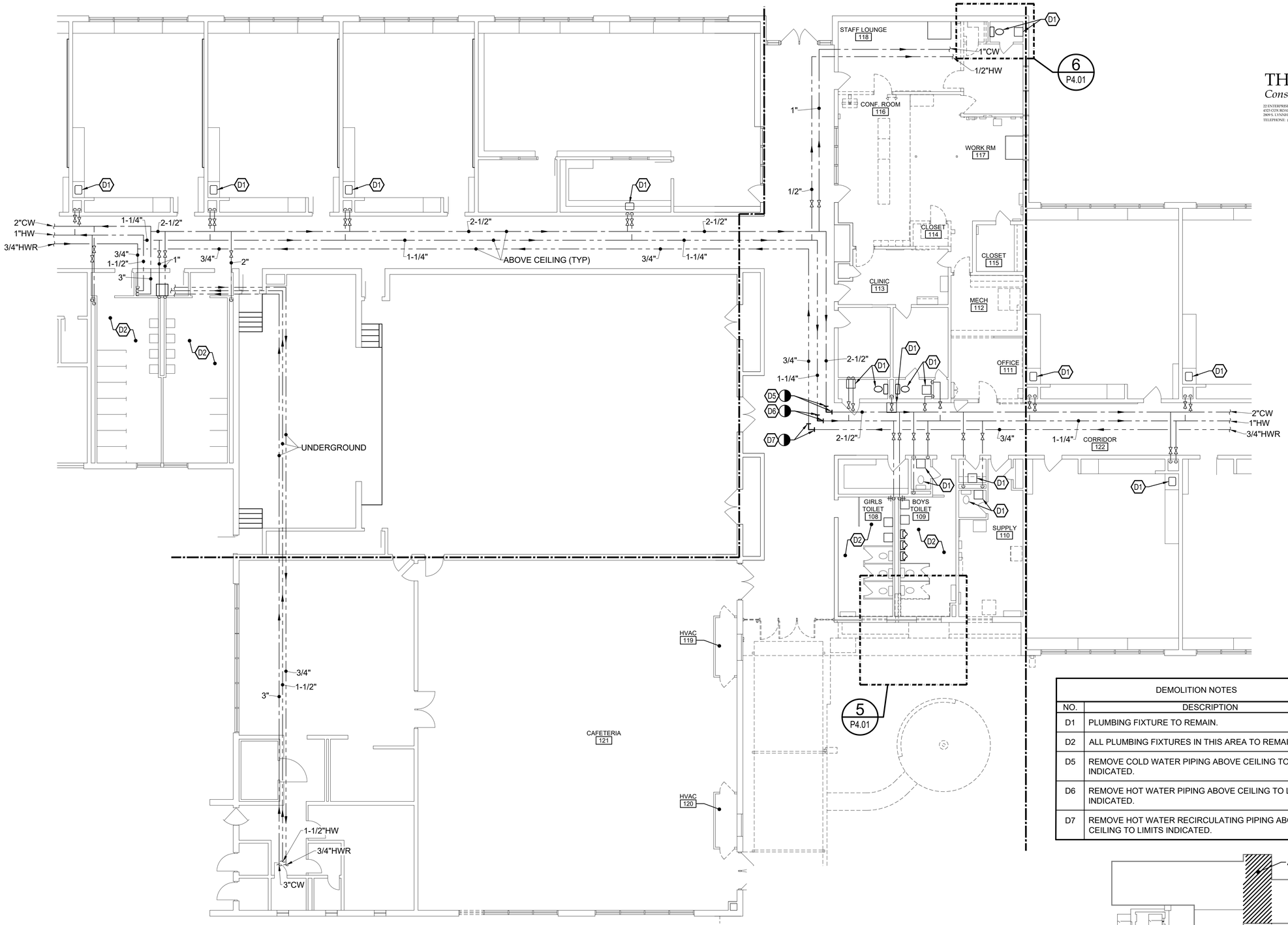
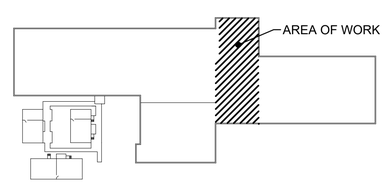
DEMOLITION FLOOR PLAN - DRAIN, WASTE & VENT

JOB NUMBER 2312

PD1.01



DEMOLITION NOTES	
NO.	DESCRIPTION
D1	PLUMBING FIXTURE TO REMAIN.
D2	ALL PLUMBING FIXTURES IN THIS AREA TO REMAIN.
D5	REMOVE COLD WATER PIPING ABOVE CEILING TO LIMITS INDICATED.
D6	REMOVE HOT WATER PIPING ABOVE CEILING TO LIMITS INDICATED.
D7	REMOVE HOT WATER RECIRCULATING PIPING ABOVE CEILING TO LIMITS INDICATED.



KEY PLAN
NOT TO SCALE

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

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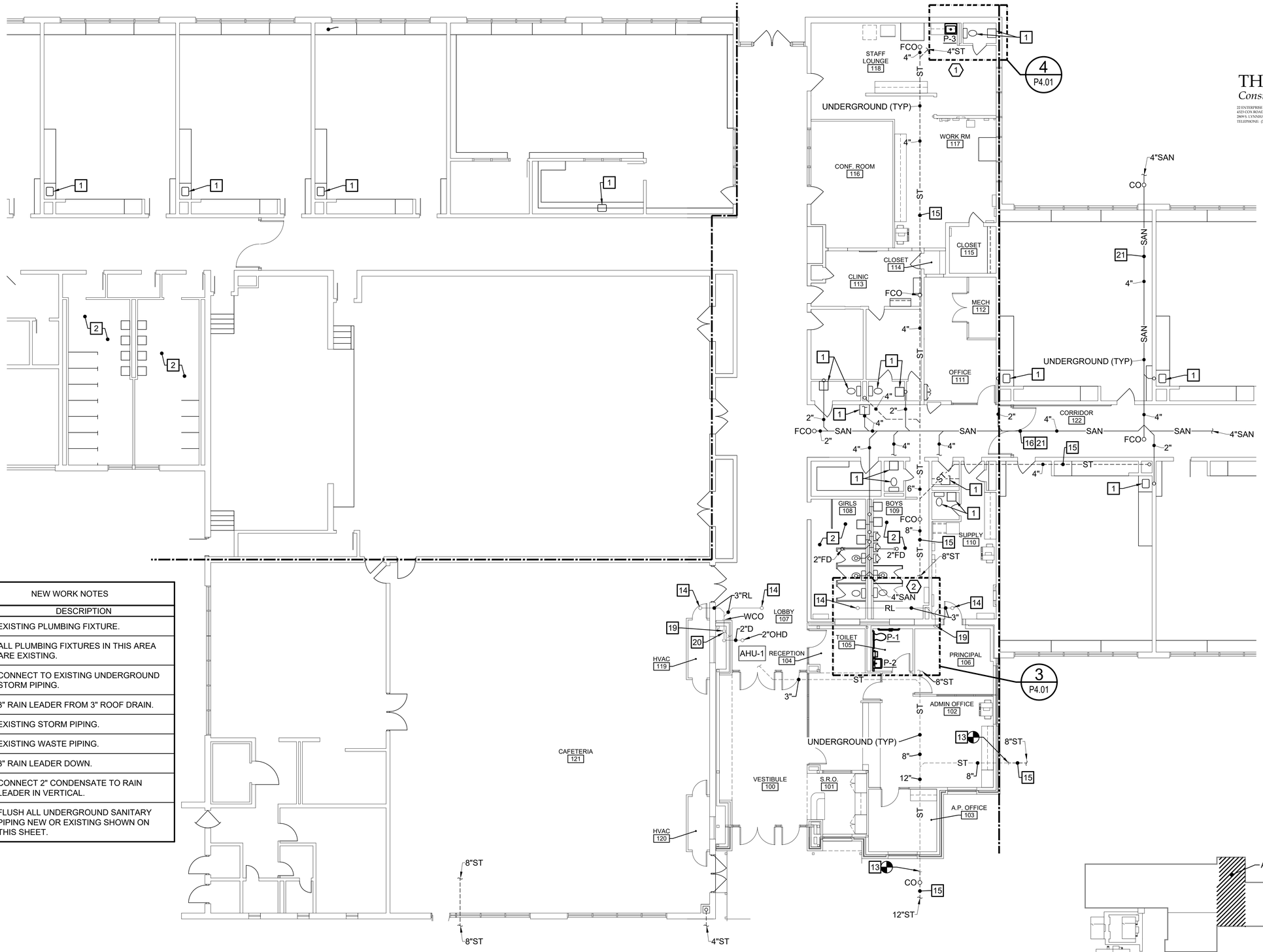
DEMOLITION FLOOR PLAN - DOMESTIC WATER

JOB NUMBER 2312

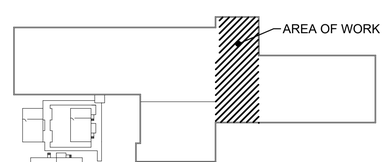
PD2.01



NEW WORK NOTES	
NO.	DESCRIPTION
1	EXISTING PLUMBING FIXTURE.
2	ALL PLUMBING FIXTURES IN THIS AREA ARE EXISTING.
13	CONNECT TO EXISTING UNDERGROUND STORM PIPING.
14	3" RAIN LEADER FROM 3" ROOF DRAIN.
15	EXISTING STORM PIPING.
16	EXISTING WASTE PIPING.
19	3" RAIN LEADER DOWN.
20	CONNECT 2" CONDENSATE TO RAIN LEADER IN VERTICAL.
21	FLUSH ALL UNDERGROUND SANITARY PIPING NEW OR EXISTING SHOWN ON THIS SHEET.

NEW WORK FLOOR PLAN - DRAIN, WASTE & VENT

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



KEY PLAN

NOT TO SCALE

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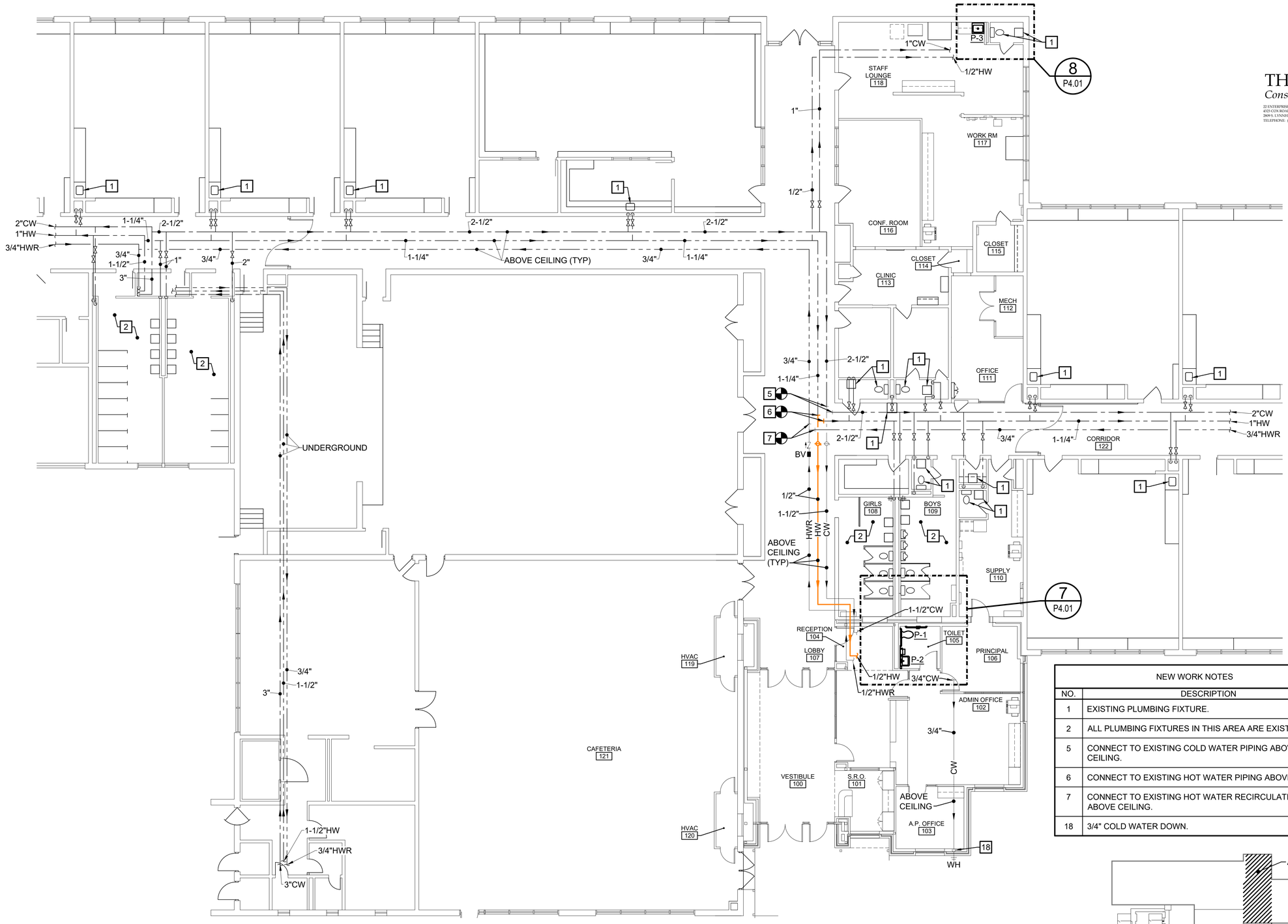
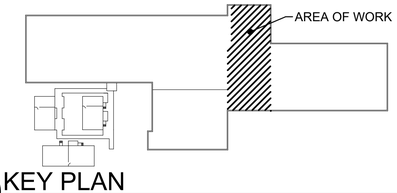
NEW WORK
FLOOR PLAN -
DRAIN, WASTE & VENT

JOB NUMBER 2312

P1.01



NEW WORK NOTES	
NO.	DESCRIPTION
1	EXISTING PLUMBING FIXTURE.
2	ALL PLUMBING FIXTURES IN THIS AREA ARE EXISTING.
5	CONNECT TO EXISTING COLD WATER PIPING ABOVE CEILING.
6	CONNECT TO EXISTING HOT WATER PIPING ABOVE CEILING.
7	CONNECT TO EXISTING HOT WATER RECIRCULATING PIPING ABOVE CEILING.
18	3/4" COLD WATER DOWN.



KEY PLAN
NOT TO SCALE

NEW WORK FLOOR PLAN - DOMESTIC WATER
SCALE: 1/8" = 1'-0"

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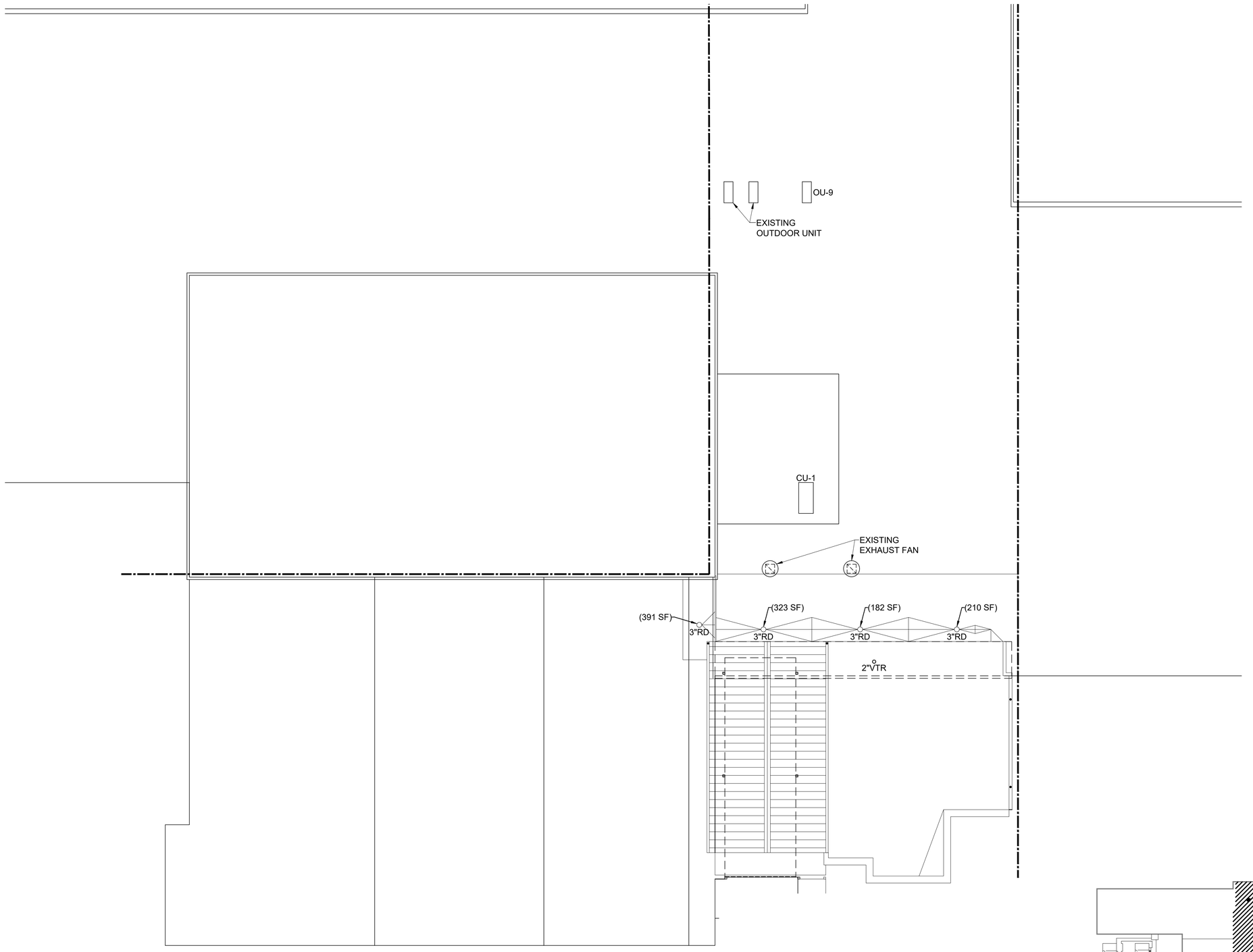
NEW WORK
FLOOR PLAN -
DOMESTIC WATER

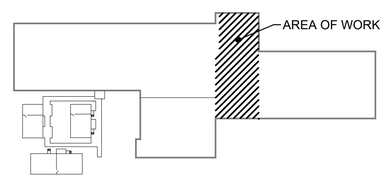
JOB NUMBER 2312

P2.01



NEW WORK ROOF PLAN - PLUMBING

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



KEY PLAN

NOT TO SCALE

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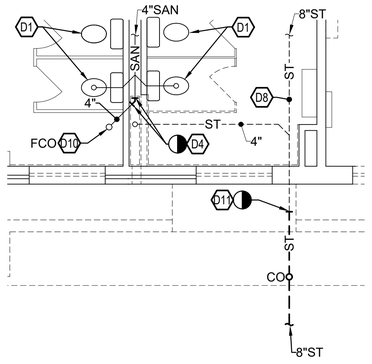
NEW WORK
ROOF PLAN -
PLUMBING

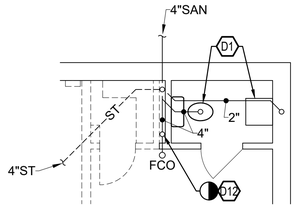
JOB NUMBER 2312

P3.01



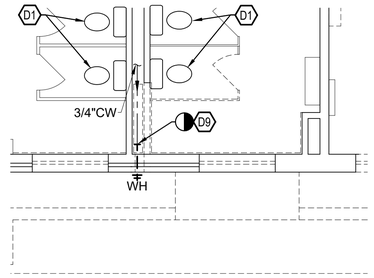
ENLARGED FLOOR PLAN - DRAIN, WASTE & VENT

1 PD1.01 SCALE: 1/4" = 1'-0"



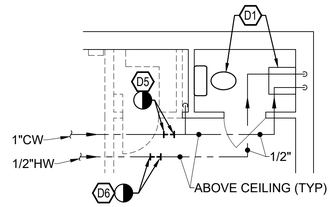
ENLARGED FLOOR PLAN - DRAIN, WASTE & VENT

2 PD1.01 SCALE: 1/4" = 1'-0"



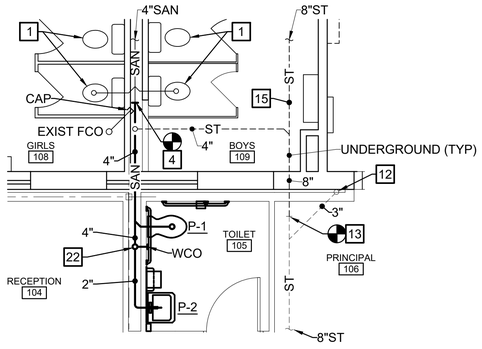
ENLARGED FLOOR PLAN - DOMESTIC WATER

5 PD2.01 SCALE: 1/4" = 1'-0"



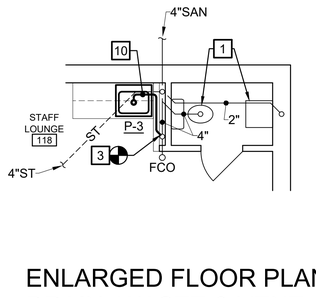
ENLARGED FLOOR PLAN - DOMESTIC WATER

6 PD2.01 SCALE: 1/4" = 1'-0"



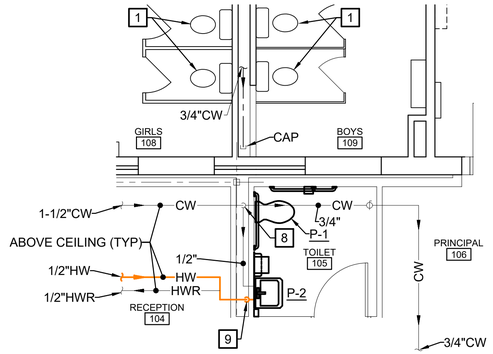
ENLARGED FLOOR PLAN - DRAIN, WASTE & VENT

3 P1.01 SCALE: 1/4" = 1'-0"



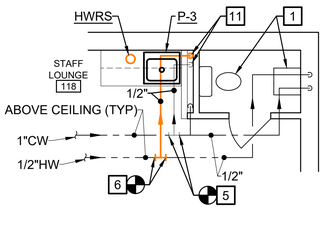
ENLARGED FLOOR PLAN - DRAIN, WASTE & VENT

4 P1.01 SCALE: 1/4" = 1'-0"



ENLARGED FLOOR PLAN - DOMESTIC WATER

7 P2.01 SCALE: 1/4" = 1'-0"



ENLARGED FLOOR PLAN - DOMESTIC WATER

8 P2.01 SCALE: 1/4" = 1'-0"

DEMOLITION NOTES	
NO.	DESCRIPTION
D1	PLUMBING FIXTURE TO REMAIN.
D2	ALL PLUMBING FIXTURES IN THIS AREA TO REMAIN.
D4	REMOVE WASTE PIPING TO LIMITS INDICATED.
D4	REMOVE COLD WATER PIPING ABOVE CEILING TO LIMITS INDICATED.
D6	REMOVE HOT WATER PIPING ABOVE CEILING TO LIMITS INDICATED.
D8	STORM PIPING TO REMAIN.
D9	REMOVE WALL HYDRANT AND COLD WATER PIPING TO LIMITS INDICATED. CAP REMAINING PIPING.
D10	FLOOR CLEANOUT TO REMAIN. CUT AND CAP AND ABANDON REMAINING WASTE PIPING AS INDICATED
D11	REMOVE STORM DRAIN AND CLEANOUT BELOW GRADE AT EXTERIOR OF BUILDING.
D12	REMOVE VERTICAL PIPING TO FACILITATE INSTALLATION OF WASTE PIPING FROM NEW SINK.

NEW WORK NOTES	
NO.	DESCRIPTION
1	EXISTING PLUMBING FIXTURE.
3	PROVIDE NEW WASTE PIPING FROM SINK. CONNECT TO EXISTING PIPING.
4	CONNECT NEW 4" WASTE PIPING TO EXISTING PIPING. EXTEND NEW PIPING TO NEW FIXTURES IN TOILET 105.
5	CONNECT TO EXISTING COLD WATER PIPING ABOVE CEILING.
6	CONNECT TO EXISTING HOT WATER PIPING ABOVE CEILING.
8	1-1/2" COLD WATER DOWN. BRANCH 1" TO WATER CLOSET AND 1/2" TO LAVATORY.
9	1/2" HOT WATER DOWN.
10	RUN WASTE PIPING FROM SINK INSIDE ADA PROTECTIVE PIPE ENCLOSURE BELOW SINK.
11	1/2" HOT AND COLD WATER DOWN.
12	3" RAIN LEADER FROM ABOVE.
13	CONNECT TO EXISTING UNDERGROUND STORM PIPING.
14	EXISTING STORM PIPING.
17	4" WASTE DOWN, 2" VENT UP TO 2" VENT THRU ROOF.

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ENLARGED FLOOR PLANS - PLUMBING

JOB NUMBER 2312

P4.01

GENERAL DEMOLITION NOTES

1. WHERE PIPING IS INDICATED TO BE REMOVED, IT SHALL MEAN COMPLETE REMOVAL OF PIPING, INCLUDING VALVES, FITTINGS, INSULATION, SUPPORTS, HANGERS, BRACKETS, CONTROLS AND INCIDENTAL ITEMS CONNECTED OR FASTENED TO THE PIPING. PIPING IS DIAGRAMMATIC AND INDICATES THE GENERAL EXTENT OF WORK. NO ATTEMPT IS MADE TO SHOW EVERY ELL, TEE, OFFSET, FITTING AND VALVE. REMOVE PIPING AS INDICATED AND SPECIFIED.

2. WHERE DUCTWORK IS INDICATED TO BE REMOVED, IT SHALL MEAN COMPLETE REMOVAL OF DUCTWORK, INCLUDING FITTINGS, INSULATION, SUPPORTS, BRACKETS, CONTROLS AND INCIDENTAL ITEMS CONNECTED OR FASTENED TO THE DUCTWORK. DUCTWORK IS DIAGRAMMATIC AND INDICATES THE GENERAL EXTENT OF WORK. NO ATTEMPT IS MADE TO SHOW EVERY ELL, TEE, OFFSET AND FITTING. REMOVE DUCTWORK AS INDICATED AND SPECIFIED.

3. REFER TO REFLECTED CEILING PLANS FOR DEMOLITION AND NEW WORK RELATED TO CEILINGS.

GENERAL NOTES

1. CONTRACTOR SHALL VISIT JOB SITE TO DETERMINE EXTENT OF WORK INVOLVED PRIOR TO BIDDING THE PROJECT.

2. THE MECHANICAL SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2021 VIRGINIA UNIFORM STATEWIDE BUILDING CODE.

3. COORDINATE LOCATION OF ALL DUCTWORK, SUPPLY AND RETURN DEVICES, EXHAUST FANS, THERMOSTATS AND OTHER WALL OR CEILING MOUNTED EQUIPMENT WITH REFLECTED PLANS, LIGHT FIXTURES AND ACCESSORIES INSTALLED BY OTHER TRADES SO AS TO PRESENT A NEAT AND ATTRACTIVE INSTALLATION THROUGHOUT THE BUILDING.

4. COORDINATE ALL OUTSIDE AIR LOUVERS, AIR INTAKES AND RELIEF OUTLETS, SIZE AND LOCATION, WITH ARCHITECTURAL DRAWINGS.

5. ALL PIPING, VALVES, DUCTWORK, ETC., SHALL BE CONCEALED UNLESS OTHERWISE NOTED.

6. PIPING ARRANGEMENTS ARE DIAGRAMMATIC.

7. PIPING PASSING THROUGH WATERPROOF MEMBRANES SHALL BE MADE WATERTIGHT.

8. ARRANGE PIPING AND DUCTWORK PARTICULARLY ABOVE CEILING AS REQUIRED TO CLEAR STRUCTURE, CONDUIT, LIGHTS, ETC., ALLOWING SPACE FOR HANGERS, INSULATION, ETC.

9. SEAL AROUND AND MAKE AIRTIGHT ALL DUCTS AND PIPES PENETRATING INSULATED CEILINGS AND WALLS.

10. DUCT DIMENSIONS MAY BE MODIFIED AS APPROVED BY ENGINEER.

11. DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS.

12. ALL PENETRATIONS THROUGH FLOORS SHALL BE PROVIDED WITH SCHEDULE 40 STEEL PIPE SLEEVES IN ACCORDANCE WITH SPECIFICATIONS. SLEEVE SHALL EXTEND 1" ABOVE THE FLOOR SLAB, FILL ANNULAR VOID SPACE WITH FIRE-PROOFING MATERIAL AND CAULK WATERTIGHT.

13. MAINTAIN PROPER CLEARANCES PER ELECTRICAL CODE ON ALL EQUIPMENT. COORDINATE WITH ALL TRADES TO ENSURE CLEARANCES ARE NOT OBSTRUCTED.

14. FINAL LOCATION OF SPACE THERMOSTATS, HUMIDISTATS, AND SENSORS SHALL BE APPROVED BY ARCHITECT.

15. INSTALL ALL WALL MOUNTED NON-ADJUSTABLE SENSORS AT 5'-0" FROM FINISHED FLOOR TO TOP OF SENSOR. ADJUSTABLE DEVICE SHALL BE INSTALLED 4'-0" ABOVE FINISHED FLOOR.

16. ALL ROUND BRANCH DUCTS TO DIFFUSERS SHALL MATCH NECK SIZES SHOWN ON SCHEDULE, UNLESS OTHERWISE NOTED.

17. ALL DIFFUSERS, GRILLES AND REGISTERS SHALL BE SIZED TO HAVE A MINIMUM FREE AREA OF 70% AND MEET PERFORMANCE CRITERIA SCHEDULED.

18. PROVIDE A CONTINUOUS RETURN AIR PATH FROM SPACE CEILING RETURN PLENUMS TO THEIR ASSOCIATED ROOFTOP UNIT OR AIR HANDLER. IN SPACES HAVING WALLS THAT ARE CONTINUOUS TO DECK, AND FOR WHICH NO TRANSFER DUCT HAS BEEN INDICATED, PROVIDE SLEEVED WALL OPENING WITH TRANSFER "L" DUCT SIZED AT 500 FPM.

19. CONTRACTOR SHALL ONLY USE DESIGNATED AREAS WITHIN THE EQUIPMENT FOR PENETRATIONS OF ELECTRICAL CONDUITS AND CONTROL CONDUITS. THESE PENETRATIONS MUST BE WEATHERTIGHT. IF A CONTRACTOR PENETRATES ANY AREAS IN THE EQUIPMENT THAT IS NOT DESIGNATED BY THE MANUFACTURER FOR PENETRATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIRS TO THE EQUIPMENT, TO INSURE IT IS WEATHERTIGHT. IF EQUIPMENT CAN NOT BE MADE WEATHER TIGHT THE CONTRACTOR SHALL BE REQUIRED TO REPLACE EQUIPMENT AT HIS OWN EXPENSE.

20. REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL WORK REQUIRED FOR INSTALLATION OF ROOF MOUNTED HVAC EQUIPMENT.

21. PROVIDE NEMA 3R ENCLOSURES FOR ALL FIELD INSTALLED CONTROLS, ACCESSORIES AND ELECTRICAL COMPONENTS WHETHER INDICATED OR NOT.

ABBREVIATIONS

ø	DIAMETER
AHU-x	AIR HANDLING UNIT DESIGNATION
APD	AIR PRESSURE DROP
CFM	CUBIC FEET PER MINUTE
CU-x	CONDENSING UNIT DESIGNATION
(CUH-x)	CABINET UNIT HEATER DESIGNATION (EXISTING)
COP	COEFFICIENT OF PERFORMANCE
D	CONDENSATE DRAIN
DB	DRY BULB
DDC	DIRECT DIGITAL CONTROL
DIA	DIAMETER
DISCH	DISCHARGE
(DOAS-x)	DEDICATED OUTSIDE AIR SYSTEM (EXISTING)
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRONICALLY COMMUTATED
EF-x	EXHAUST FAN DESIGNATION
(EF-x)	EXHAUST FAN DESIGNATION (EXISTING)
ESP	EXTERNAL STATIC PRESSURE
(EWH-x)	ELECTRIC WALL HEATER (EXISTING)
°F	DEGREES FAHRENHEIT
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
H	HUMIDISTAT
HP	HORSEPOWER
IN	INCH/INCHES
IU-x	INDOOR (SPLIT SYSTEM A/C) UNIT DESIGNATION
KW	KILOWATTS
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
MAX	MAXIMUM
MBH	1000 BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MIN	MINIMUM
MOCP	MAXIMUM OVER CURRENT PROTECTION
NC	NOISE CRITERIA
NO	NUMBER
OA	OUTSIDE AIR
OU-x	OUTDOOR (SPLIT SYSTEM A/C) UNIT DESIGNATION
ΔP	PRESSURE DIFFERENTIAL
PH	PHASE
RA	RETURN AIR
RAD	RADIATED
RL	REFRIGERANT LIQUID
RLA	RUN LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
SA	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SENS	SENSIBLE
T	THERMOSTAT OR TEMPERATURE SENSOR
TYP	TYPICAL
(UV-x)	UNIT VENTILATOR DESIGNATION (EXISTING)
V	VOLTS
W	WATTS
WB	WET BULB
WC	WATER COLUMN

LEGEND

△	3/4" DOOR UNDERCUT
VD	VOLUME DAMPER
M	MOTOR OPERATED CONTROL DAMPER
XXX	BALANCE EXISTING AIR TERMINAL TO CFM INDICATED
A CFM	DIFFUSER, REGISTER, AND GRILLE, CFM AS INDICATED
H	HUMIDISTAT OR HUMIDITY SENSOR
T XX	THERMOSTAT OR TEMPERATURE SENSOR, CONTROLLING UNIT AS INDICATED
T XX	SENSOR WITH GUARD
T	THERMOSTAT OR TEMPERATURE SENSOR
	SUPPLY AIR DEVICE WITH FLEXIBLE DUCT
	SUPPLY AIR DEVICE
	90° DUCT ELBOW - TURNED DOWN
	DUCT ELBOW WITH TURNING VANES
	DUCT SECTION - RETURN/EXHAUST
	DUCT SECTION - SUPPLY
	DUCTWORK TURNING DOWN
	90° DUCT ELBOW - TURNED UP
	TRANSFER GRILLE, SIZE AS INDICATED
	CEILING TRANSFER GRILLE
	DUCT TRANSITION
	SQUARE TO ROUND DUCT TRANSITION
	ROOF MOUNTED EXHAUST FAN (EXISTING)
	SIDEWALL GRILLE OR REGISTER
	SUPPLY AIR DEVICE
	RETURN AIR DEVICE
	NEW DUCT
	90° DUCT ELBOW - TURNED DOWN - RETURN
	90° DUCT ELBOW - TURNED DOWN - SUPPLY
	90° DUCT ELBOW - TURNED UP - RETURN
	90° DUCT ELBOW - TURNED UP - SUPPLY

ø	ROUND DUCT
	DIRECTION OF AIRFLOW
	POINT OF CONNECTION FOR NEW WORK
	REMOVE EXISTING TO THIS POINT
D1	DEMOLITION NOTE
(X"/X")	EXISTING SIZES AS INDICATED
1	NEW WORK NOTE
A MXXX	SECTION: LETTER "A" SEE SHEET MXXX
P MXXX	PHOTO: LETTER "P" SEE SHEET MXXX
	EXISTING TO REMAIN
	NEW WORK
	EXISTING TO BE REMOVED
	PIPE CAP
	DIRECTION OF FLOW IN PIPE
	PIPE DOWN
	PIPE TEE UP
	PIPE UP
D	DRAIN PIPING
	EXISTING PIPING TO REMAIN
	NEW PIPING
	PIPING TO BE REMOVED
RL	REFRIGERANT LIQUID PIPING
RG	REFRIGERANT GAS PIPING
RS	REFRIGERANT SUCTION PIPING
	DIRECTION OF PITCH FOR PIPING OR DUCTWORK

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FEBRUARY 4, 2025

MECHANICAL GENERAL NOTES, LEGEND AND ABBREVIATIONS

JOB NUMBER 2312

M0.01

VERTICAL CLASSROOM UNIT VENTILATOR HEAT PUMP SCHEDULE (FOR REFERENCE ONLY)

MARK	FAN DATA				DX COOLING COIL DATA		HEATING DATA @ 47.0°F				MODULATING HOT GAS REHEAT			ENERGY WHEEL SUPPLY AIR DATA						ENERGY WHEEL RA DATA				ELECTRICAL SERVICE					UNIT WEIGHT (LBS)	SELECTION BASED ON "BARD"
	TOTAL CFM	OA CFM	HP	ESP (IN. WC)	TOTAL MBH	SENS. MBH	EAT (°F) DB	LAT (°F) DB	CAPACITY (MBH)	COP	EAT (°F)	LAT (°F)	CAPACITY (MBH)	COOLING					HEATING			COOLING		HEATING		ELECTRIC HEAT KW	V	PH	MCA	MOCP		
														OA CFM	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	EAT	LAT	EAT DB (°F)	EAT WB (°F)	EAT DB (°F)	EAT WB (°F)							
UV-A	1150	450	1/3	N/A	35.0	27.0	65.7	80.8	32.8	3.7	65.7	80.8	32.8	450	95.0	78.0	78.9	66.9	15.0	65.7	77.0	66.0	68.0	54.1	9.0	208	3	49	50	1261	I36H1DB09RN

EXHAUST FAN SCHEDULE

UNIT NO.	TYPE	ARRANGEMENT	WHEEL	DRIVE	CFM	ESP (IN. WC)	FAN (RPM)	OUTLET VELOCITY FPM	MOTOR DATA			CONTROL METHOD	MAX. SONES	SELECTION BASED ON "GREENHECK"	REMARKS
									HP (W)	V	PH				
EF-9	CEILING CABINET	HORIZONTAL	FORWARD CURVED CENTRIFUGAL	DIRECT	75	0.3	990	71	(14.5)	120	1	DDC	3.2	SP-A390-VG	①②③④

REMARKS:
① REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
② PROVIDE WITH BACKDRAFT DAMPER.
③ PROVIDE WITH EC MOTOR.
④ PROVIDE FACTORY MOUNTED AND WIRED DISCONNECT SWITCH.

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

INDOOR UNIT							OUTDOOR UNIT						REFRIGERANT TYPE	REMARKS
UNIT NO.	"LG" MODEL NO.	CFM	OA CFM	COOLING CAPACITY TOTAL (MBH)	COOLING CAPACITY SEER	HEATING CAPACITY MBH@17°F	UNIT NO.	"LG" MODEL NO.	MCA	MOCP	ELECTRICAL DATA V	ELECTRICAL DATA PH		
IU-9	LCN128HV4	335	N/A	12.4	19.4	15.5	OU-9	LUU127HV	12.3	15.0	208	1	R-410A	①②③④⑤

REMARKS:
① PROVIDE WITH WALL MOUNTED WIRED THERMOSTAT.
② PROVIDE WITH BUILT-IN CONDENSATE PUMP AND CONDENSATE OVERFLOW SWITCH
③ POWER & CONTROL WIRING TO INDOOR UNIT SHALL BE SERVED FROM OUTDOOR UNIT.
④ PROVIDE INDOOR UNIT WITH 14/3 CONDUCTOR AND 3-POLE DISCONNECT SWITCH BY UNIT MANUFACTURER.
⑤ PROVIDE WITH BIPOLAR IONIZATION AIR PURIFICATION SYSTEM MODEL GPS-FC. REFER TO SPECIFICATION 230500 2.9.B FOR REQUIREMENTS. A 24-VOLT STEP DOWN TRANSFORMER SHALL BE PROVIDED BY THE UNIT MANUFACTURER. THE ENGINEERED VENTILATION SYSTEM WILL PREVENT THE MAXIMUM CONCENTRATION OF CONTAMINANTS FROM EXCEEDING THAT OBTAINABLE BY THE RATE OF OUTDOOR AIR VENTILATION DETERMINED IN ACCORDANCE WITH SECTION 403.3 OF ASHRAE STANDARD 62.1 - 2015. THE MECHANICAL CONTRACTOR SHALL WIRE FROM THE UNIT MANUFACTURER - PROVIDED TRANSFORMER TO THE BIPOLAR IONIZATION POWER SUPPLY.

ELECTRIC SHUT OFF VAV BOX SCHEDULE

UNIT NO.	INLET VALVE MAX. CFM	MIN. CFM	HEATING CFM	SIZE (DIA)	APD (IN.)	ELECTRIC HEATING COIL EAT (°F)	LAT (°F)	KW	MCA	MOCP	V	PH	SELECTION BASED ON "GREENHECK"	NC RAD.	NC DISCH.	REMARKS
1.1	155	110	155	4"	0.03	60.0	90.6	1.5	15.6	20	120	1	XG-TH-504	<15	15	①②
1.2	440	145	440	6"	0.13	60.0	86.3	4.0	41.7	45	120	1	XG-TH-506	21	19	①②
1.3	265	80	265	5"	0.06	60.0	95.8	3.0	31.3	30	120	1	XG-TH-505	<15	18	①②
1.4	175	70	175	4"	0.03	60.0	96.1	2.0	20.8	25	120	1	XG-TH-504	<15	15	①②
1.5	480	145	480	6"	0.13	60.0	86.3	4.0	41.7	45	120	1	XG-TH-506	21	19	①②
1.6	270	80	270	5"	0.06	60.0	95.1	3.0	31.3	35	120	1	XG-TH-505	<15	18	①②

REMARKS:
① REFER TO DRAWINGS FOR UNIT ORIENTATION.
② PROVIDE WITH 1" FOIL FACED INSULATION.

SPLIT SYSTEM AIR HANDLING HEAT PUMP UNIT SCHEDULE

UNIT NO.	TOTAL CFM	OA CFM	SUPPLY FAN TOTAL CFM	SUPPLY FAN ESP (IN.)	SUPPLY FAN HP	SUPPLY FAN FAN RPM	DX COOLING COIL PERFORMANCE EAT DB(°F)	EAT WB(°F)	LAT DB(°F)	LAT WB(°F)	MBH TOTAL	APD (IN.)	HEATING DATA EAT (°F) DB	LAT (°F) DB	CAPACITY (MBH)	MODULATING HOT GAS REHEAT COIL PERFORMANCE EAT (°F)	LAT (°F)	CAPACITY (MBH)	ELECTRICAL V	PH	MCA	MOCP	UNIT WEIGHT (LBS)	SELECTION BASED ON "AAON"	REMARKS
AHU-1	1565	220	1565	0.5	1.0	1584	79.5	67.9	55.4	55.1	61.1	1.55	60.6	81.3	39.5	55.4	75.0	33.0	208	3	3	15	571	V3-BRB-8-0-461C-000	①②③④

REMARKS:
① PROVIDE WITH CONDENSATE OVERFLOW PROTECTION SWITCH.
② PROVIDE WITH DOOR HOLD OPEN LATCHES ON ALL ACCESS DOORS.
③ DX COOLING COIL PERFORMANCE DATA BASED ON GROSS COIL CAPACITY. ENTERING AIR TEMPERATURES BASED ON 95°F DB/78°WB AMBIENT CONDITIONS. PROVIDE WITH VARIABLE SPEED COMPRESSOR.
④ PROVIDE WITH BIPOLAR IONIZATION AIR PURIFICATION SYSTEM. REFER TO SPECIFICATION 230500 2.9.B FOR REQUIREMENTS. A 24-VOLT STEP DOWN TRANSFORMER SHALL BE PROVIDED BY THE ROOFTOP UNIT MANUFACTURER. MECHANICAL CONTRACTOR SHALL WIRE THE POWER SUPPLY TO THE TRANSFORMER. THE ENGINEERED VENTILATION SYSTEM WILL PREVENT THE MAXIMUM CONCENTRATION OF CONTAMINANTS FROM EXCEEDING THAT OBTAINABLE BY THE RATE OF OUTDOOR AIR VENTILATION DETERMINED IN ACCORDANCE WITH SECTION 403.3 OF ASHRAE STANDARD 62.1-2018.

NOTE: PROVIDE UNIT WITH 65 KAIC SCCR RATING.

CONDENSING UNIT SCHEDULE

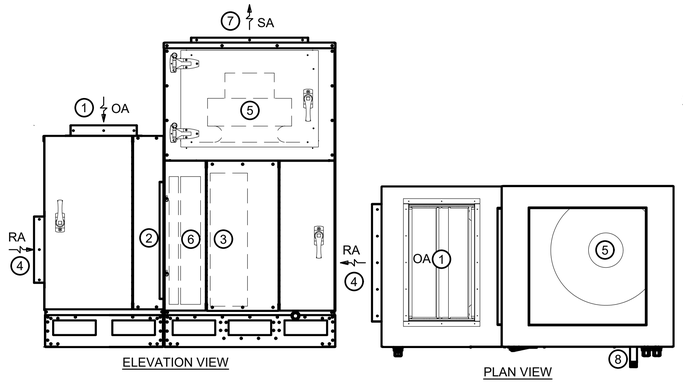
UNIT NO.	AMBIENT CONDITIONS (°F DB)	TOTAL CAPACITY	COMPRESSOR NO.	COMPRESSOR RLA	COMPRESSOR V	COMPRESSOR PH	CONDENSER FAN NO.	CONDENSER FAN FLA. EA	CONDENSER FAN V	CONDENSER FAN PH	ELECTRICAL V	ELECTRICAL PH	ELECTRICAL MCA	ELECTRICAL MOCP	SERVING	SELECTION BASED ON "AAON"	REMARKS
CU-1	95.0	61.1	1	18.0	208	3	1	2.8	208	3	208	3	25	40	AHU-1	CFA-005-A-A-8	①

REMARKS:
① PROVIDE WITH FACTORY-INSTALLED HAIL GUARDS TO PROTECT CONDENSER COILS.

GRILLE, REGISTER & DIFFUSER SCHEDULE

MARK	NECK SIZE	DESCRIPTION	MATERIAL	FINISH	VOLUME DAMPER	SHAPE	MAXIMUM ΔP	MAXIMUM NC	SELECTION BASED ON "GREENHECK"	REMARKS
A	6"ø	LOUVERED FACE ADJUSTABLE CEILING DIFFUSER	STEEL	WHITE	NO	SQUARE	0.1"	25	XG-5700A-6	①②
B	8"ø	LOUVERED FACE ADJUSTABLE CEILING DIFFUSER	STEEL	WHITE	NO	SQUARE	0.1"	25	XG-5700A-6	①②
C	10"ø	LOUVERED FACE ADJUSTABLE CEILING DIFFUSER	STEEL	WHITE	NO	SQUARE	0.1"	25	XG-5700A-6	①③
D	14"ø	LOUVERED FACE ADJUSTABLE CEILING DIFFUSER	STEEL	WHITE	NO	SQUARE	0.1"	25	XG-5700A-6	①③
E	12" x 10"	SIDEWALL SUPPLY GRILLE DOUBLE DEFLECTION	STEEL	WHITE	NO	RECTANGULAR	0.1"	25	XG-H4004	
U	12" x 10"	LOUVERED RETURN / EXHAUST TRANSFER	STEEL	WHITE	NO	RECTANGULAR	0.1"	25	XG-SRH	
V	10" x 6"	RETURN GRILLE DOUBLE DEFLECTION, 3/4" SPACING	STEEL	WHITE	NO	RECTANGULAR	0.1"	25	XG-SRH	
W	8" x 6"	LOUVERED RETURN / EXHAUST TRANSFER	STEEL	WHITE	NO	RECTANGULAR	0.1"	25	XG-SRH	
X	14" x 12"	LOUVERED RETURN / EXHAUST TRANSFER	STEEL	WHITE	NO	SQUARE	0.1"	25	XG-SRH	①

REMARKS:
① REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR CEILING TYPES. FOR ACOUSTIC CEILING, PROVIDE WITH 24" x 24" PANEL SUITABLE FOR MOUNTING IN LAY-IN GRID. FOR GYPSUM BOARD CEILING, PROVIDE WITH SMALL FACE AND SURFACE MOUNT FRAME.
② PROVIDE 3-CONE CONFIGURATION.
③ PROVIDE 4-CONE CONFIGURATION.



ELEVATION VIEW

PLAN VIEW

AHU-1 CONFIGURATION

NOT TO SCALE

AHU COMPONENTS

1. OA HOOD WITH 4" LOUVER WITH DAMPER
2. 2" MERV 10 OA FILTERS
3. HOT GAS REHEAT COIL
4. RETURN AIR INLET
5. SUPPLY FAN SECTION WITH DIRECT DRIVE FANS
6. DX COIL
7. SUPPLY AIR OUTLET
8. CONDENSATE DRAIN OUTLET

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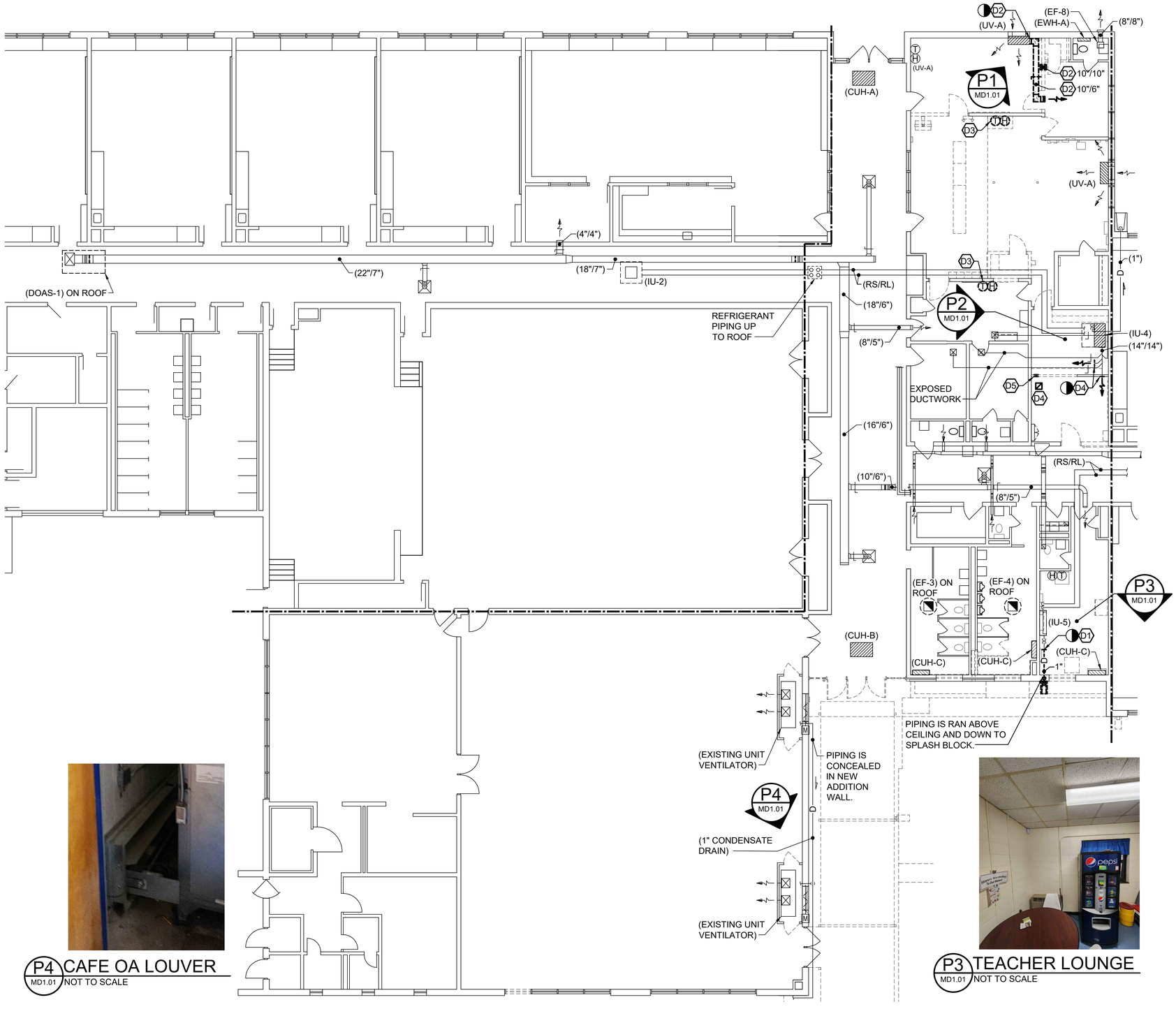
MECHANICAL SCHEDULES

JOB NUMBER 2312

M0.02



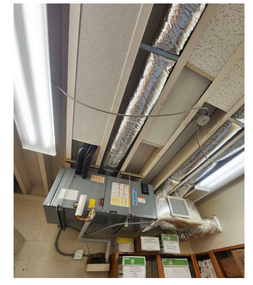
P4 MD1.01 CAFE OA LOUVER
NOT TO SCALE

P3 MD1.01 TEACHER LOUNGE
NOT TO SCALE

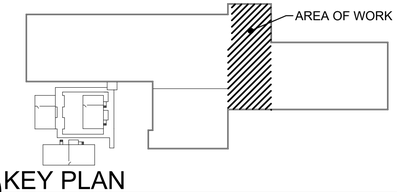
DEMOLITION FLOOR PLAN - MECHANICAL
SCALE: 1/8" = 1'-0"

DEMOLITION NOTES	
NO.	DESCRIPTION
D1	DISCONNECT AND REMOVE CONDENSATE DRAIN PIPING COMPLETE TO POINT INDICATED. REFER TO ARCHITECTURAL DRAWINGS FOR PATCHING AND REPAIR REQUIREMENTS.
D2	REMOVE DUCTWORK INCLUDING ALL ASSOCIATED GRILLES, HANGERS AND SUPPORTS COMPLETE.
D3	DISCONNECT AND RELOCATE EXISTING THERMOSTAT/HUMIDISTAT TO NEW LOCATION IN NEW WORK.
D4	REMOVE GRILLE COMPLETE.
D5	REMOVE TRANSFER GRILLES AND DUCTWORK COMPLETE.

P1 MD1.01 CONFERENCE BARD UNIT
NOT TO SCALE



P2 MD1.01 WORKROOM AHU
NOT TO SCALE



KEY PLAN
NOT TO SCALE

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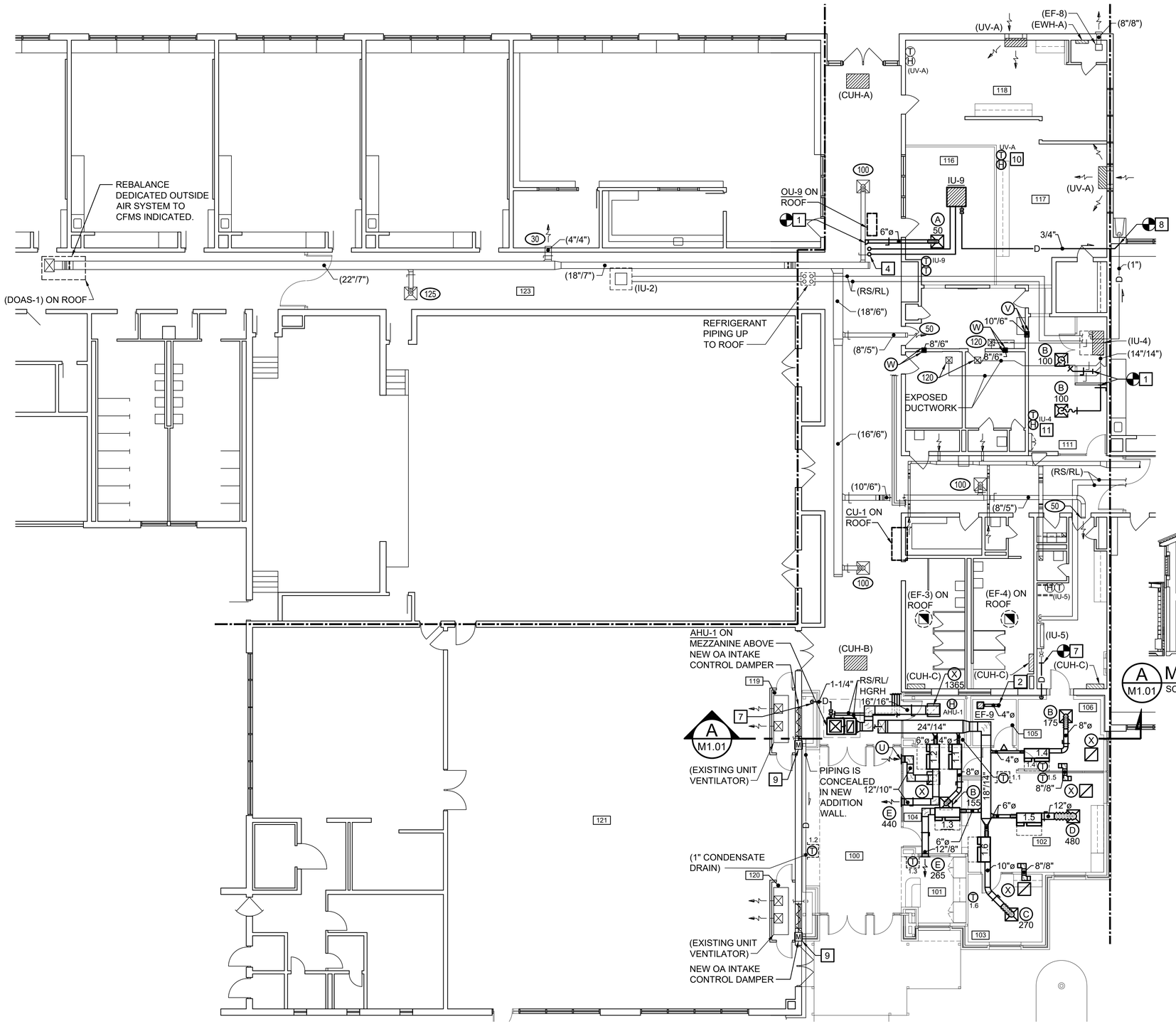
DEMOLITION FLOOR PLAN - MECHANICAL

JOB NUMBER 2312

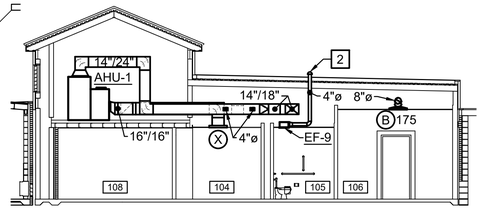
MD1.01



NEW WORK FLOOR PLAN - MECHANICAL

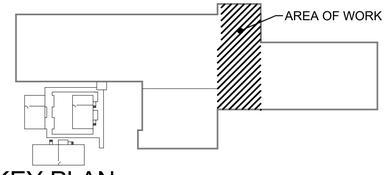
SCALE: 1/8" = 1'-0"

NEW WORK NOTES ☐	
NO.	DESCRIPTION
1	PROVIDE NEW DUCTWORK AND DIFFUSER TO POINT INDICATED.
2	PROVIDE 4" EXHAUST UP THROUGH ROOF TO RELIEF HOOD WITH ROOF CURB. REFER TO ARCHITECTURAL DRAWINGS FOR FLASHING DETAILS.
4	REFER TO "REFRIGERANT PIPE AND POWER THROUGH ROOF DETAIL" ON DRAWING M2.02.
7	ROUTE AND TIE CONDENSATE DRAIN PIPING INTO RAIN LEADER. PROVIDE SUPPORTS AS REQUIRED. REFER TO PLUMBING DRAWINGS FOR FURTHER INFORMATION.
8	PROVIDE NEW DRAIN PIPING AT POINT INDICATED. TIE INTO EXISTING CONDENSATE DRAIN PIPING ABOVE CEILING THAT SPILLS ON EXISTING SPLASH BLOCK IN CORNER OF BUILDING.
9	PROVIDE NEW MOTORIZED CONTROL DAMPER AND INTERLOCK WITH CORRESPONDING UNIT VENTILATOR.
10	RELOCATED THERMOSTAT/HUMIDISTAT FOR EXISTING UV-A.
11	RELOCATED THERMOSTAT/HUMIDISTAT FOR EXISTING IU-4.



A M1.01 MEZZANINE SECTION - NEW WORK

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



KEY PLAN

NOT TO SCALE

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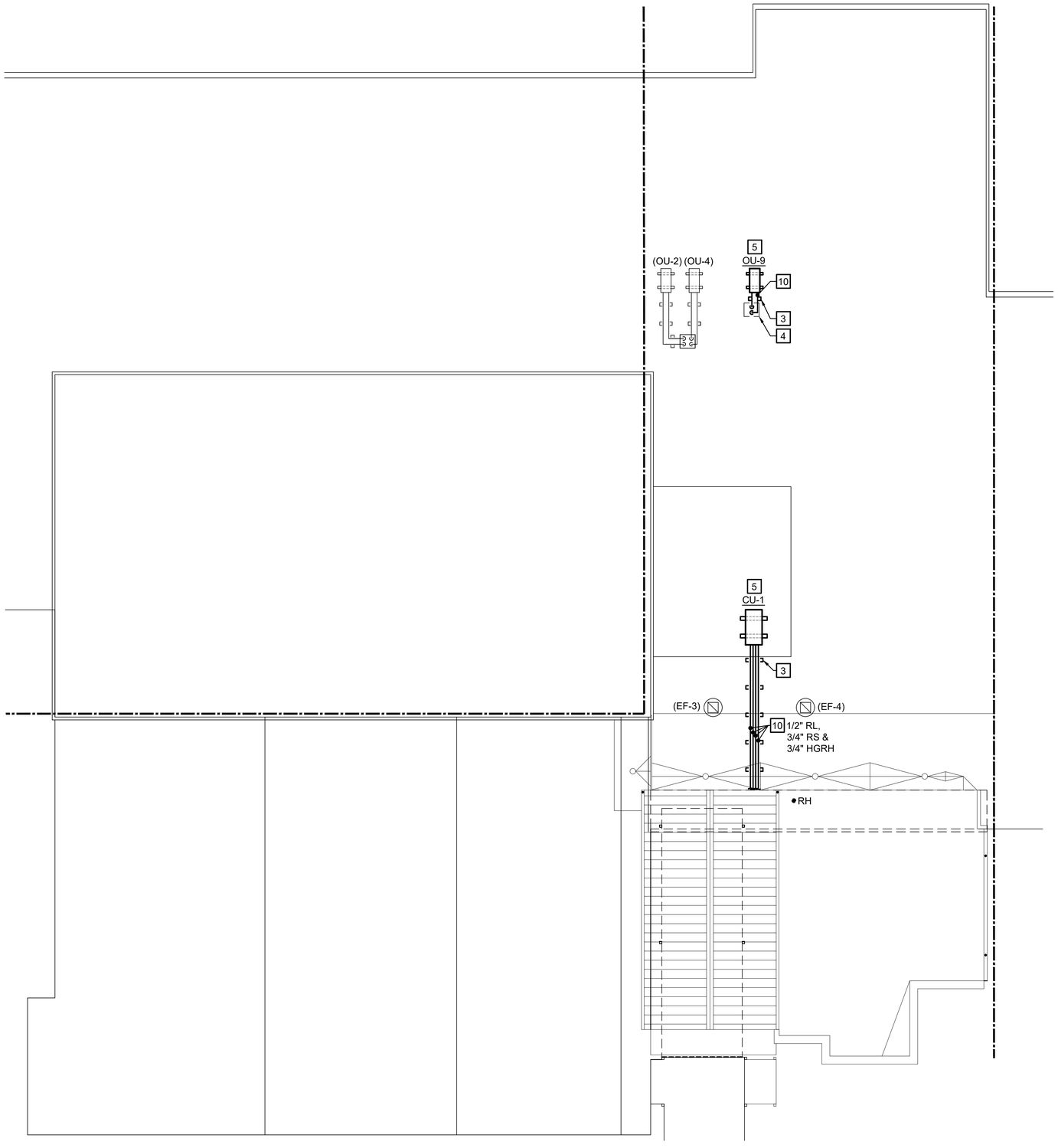
NEW WORK
FLOOR PLAN

JOB NUMBER 2312

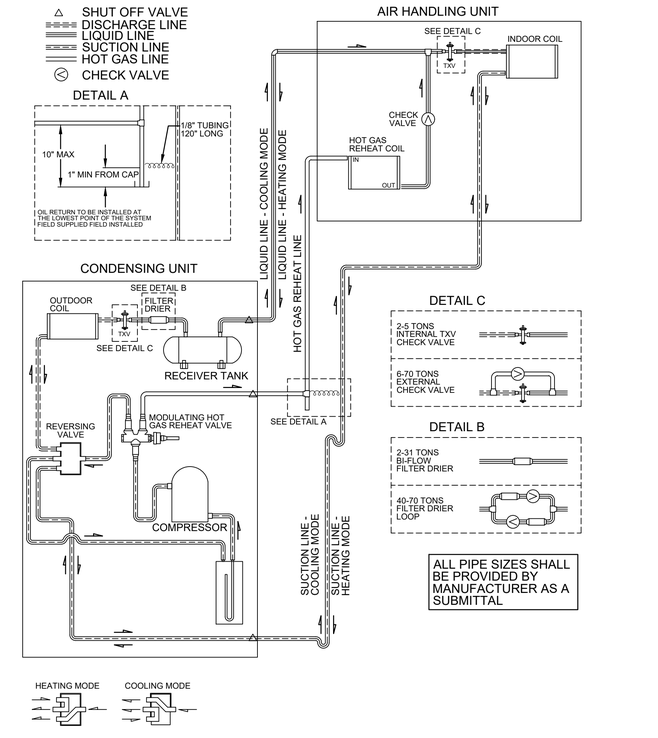
M1.01



NEW WORK ROOF PLAN - MECHANICAL

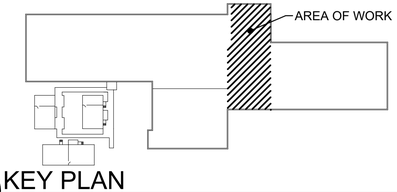
SCALE: 1/8" = 1'-0"

NEW WORK NOTES	
NO.	DESCRIPTION
2	PROVIDE 4" EXHAUST UP THROUGH ROOF TO RELIEF HOOD WITH ROOF CURB. REFER TO ARCHITECTURAL DRAWINGS FOR FLASHING DETAILS.
3	REFER TO "PIPE SUPPORT DETAIL" ON DRAWING M2.02.
4	REFER TO "REFRIGERANT PIPE AND POWER THROUGH ROOF DETAIL" ON DRAWING M2.02.
5	REFER TO ARCHITECTURAL DRAWINGS FOR CONDENSING UNIT MOUNTING DETAILS.
10	PROVIDE AND INSTALL REFRIGERANT PIPING, INSULATION, ACCESSORIES AND SUPPORTS COMPLETE. SIZE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.



AHU-1/CU-1 REFRIGERANT PIPING DIAGRAM

NOT TO SCALE



KEY PLAN

NOT TO SCALE

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NEW WORK
ROOF PLAN

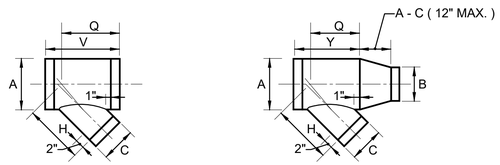
JOB NUMBER 2312

M1.02

DUCTWORK CONSTRUCTION REQUIREMENTS

SYSTEM	PRESSURE CLASS	SEAL CLASS	LEAKAGE CLASS
OUTSIDE AIR/SUPPLY AIR	+2.5" WG	CLASS A	RECTANGULAR - 4 ROUND - 2
RETURN AIR	-1.0" WG	CLASS A	RECTANGULAR - 8 ROUND - 4
EXHAUST AIR	-1.0" WG	CLASS A	RECTANGULAR - 8 ROUND - 4
TRANSFER AIR	N/A	NOT REQUIRED	-

NOTE:
1. CONSTRUCT ALL DUCTWORK IN ACCORDANCE WITH "SMACNA" HVAC DUCT CONSTRUCTION STANDARDS.
2. PROVIDE VOLUME DAMPERS FOR EACH BRANCH DUCT SERVING SUPPLY, RETURN OR EXHAUST AIR TERMINAL.
3. ALL RECTANGULAR AND MITERED ELBOWS SHALL BE PROVIDED WITH TURNING VANES.



(ONE TAP) V = 1.414 D + 4.8"
(TWO TAPS) V = 1.414 (C + D) + 9.7"

$Q = \frac{A}{2} + .707C + 3.414$

$H = .707A + \frac{C}{2} + 4.414$

ROUND LATERAL

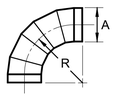
(ONE TAP) V = 1.414 D + 4.8"
(TWO TAPS) V = 1.414 (C + D) + 9.7"

$Q = \frac{A}{2} + .707C + 3.414$

$H = .707A + \frac{C}{2} + 4.414$

ROUND REDUCING LATERAL

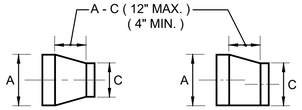
BRANCH TAKEOFFS



R = 1.5A + 3"

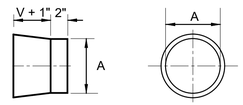
3" - 20" DIA.

ROUND ELBOWS



CONCENTRIC ECCENTRIC

ROUND REDUCERS



V = 4 1" FOR MINOR AXIS OF 22" OR LESS
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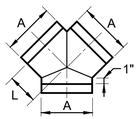
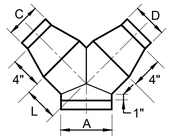
ROUND BELLMOUTH



$L = \frac{A}{2} + 2"$

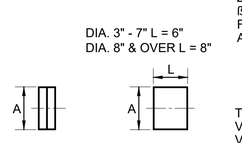
ROUND LATERAL



$L = \frac{A}{2} + 2"$

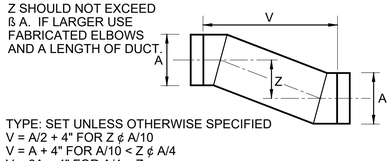
ROUND REDUCING LATERAL

ROUND "Y" BRANCH



BEAD = ë" FOR A = 3" - 23"
BEAD = ñ" FOR A = 24" AND OVER

ROUND COUPLINGS

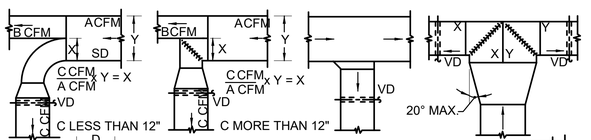


TYPE: SET UNLESS OTHERWISE SPECIFIED
V = A/2 + 4" FOR Z ¢ A/10
V = A + 4" FOR A/10 < Z ¢ A/4
V = 2A + 4" FOR A/4 < Z
SPECIFY: Z - CENTERLINE OFFSET

ROUND OFFSETS

MEDIUM PRESSURE SINGLE-WALL ROUND DUCTWORK FITTING DETAILS

NOT TO SCALE



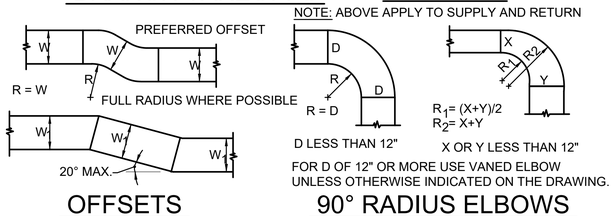
ROUND DUCT TAKEOFF FROM RECTANGULAR MAIN

RETURN ONLY

BRANCH TAKEOFFS

90° TEES

NOTE: ABOVE APPLY TO SUPPLY AND RETURN



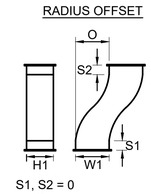
OFFSETS

90° RADIUS ELBOWS

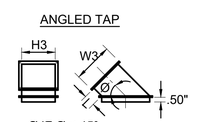
LOW VELOCITY SINGLE WALL RECTANGULAR DUCTWORK DETAILS

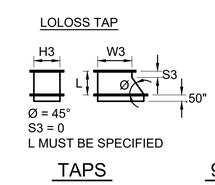
NOT TO SCALE

REFER TO DUCTWORK CONSTRUCTION REQUIREMENTS

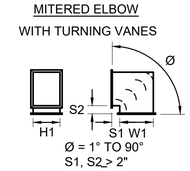


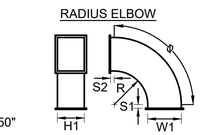
OFFSET



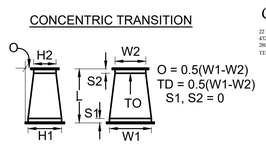


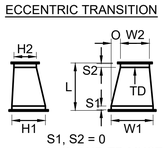
TAPS



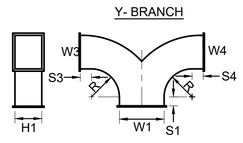


90° RADIUS ELBOWS





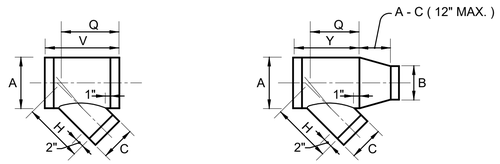
TRANSITIONS



BRANCHES

MEDIUM PRESSURE SINGLE WALL RECTANGULAR DUCTWORK DETAIL

NOT TO SCALE



(ONE TAP) V = 1.414 D + 4.8"
(TWO TAPS) V = 1.414 (C + D) + 9.7"

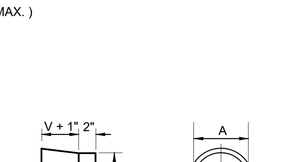
$Q = \frac{A}{2} + .707C + 3.414$

$H = .707A + \frac{C}{2} + 4.414$

ROUND LATERAL

ROUND REDUCING LATERAL

BRANCH TAKEOFFS



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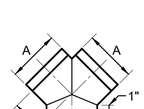
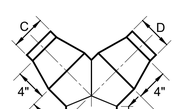
ROUND BELLMOUTH



$L = \frac{A}{2} + 2"$

ROUND LATERAL



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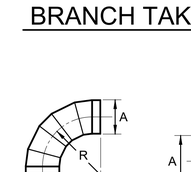
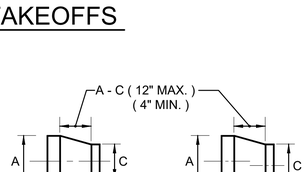
ROUND REDUCING LATERAL

ROUND "Y" BRANCH

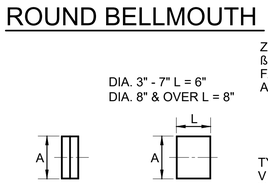


ROUND ELBOWS



CONCENTRIC ECCENTRIC

ROUND REDUCERS



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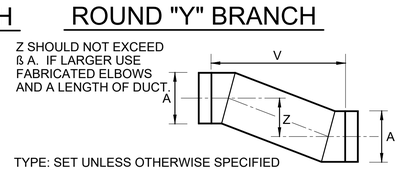

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SPECIFY: Z - CENTERLINE OFFSET

ROUND OFFSETS

LOW VELOCITY SINGLE-WALL ROUND DUCT FITTING DETAILS

NOT TO SCALE

REFER TO DUCTWORK CONSTRUCTION REQUIREMENTS

THOMPSON
Consulting Engineers
22 ENTERPRISE PARKWAY HAMPTON, VA 23666
4325 COX ROAD GLEN ALLEN, VA 23060
2809 S. LYNNHAVEN ROAD VA BEACH, VA 23452
TELEPHONE: (757) 599-4415 PROJECT NUMBER: 23-063

HUDSON + ASSOCIATES
ARCHITECTS
120 WEST QUEENS WAY SUITE 201 HAMPTON, VA.
(757) 722-1964 23669

SECURITY VESTIBULE & OFFICE ADDITION AND ALTERATIONS FOR YATES ELEMENTARY SCHOOL

73 MAXWELL LN, NEWPORT NEWS
VA 23606

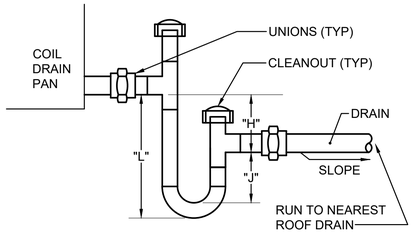
COMMONWEALTH OF VIRGINIA
KEVIN D. ALLEN
Lic. No. 023349
12/30/2024
PROFESSIONAL ENGINEER

FEBRUARY 4, 2025

MECHANICAL DETAILS

JOB NUMBER 2312

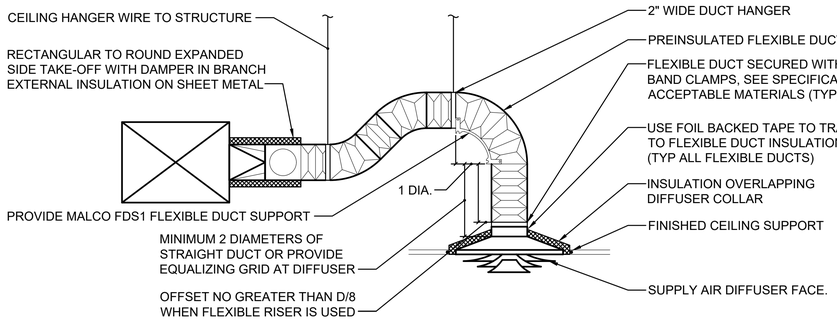
M2.01



NOTES:
1. "H" = (1" FOR EACH 1" OF MAXIMUM NEGATIVE STATIC PRESSURE) + 1".
2. "J" = HALF OF H.
3. "L" = H + J + PIPE DIAMETER + INSULATION.
4. SIZE TRAP IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

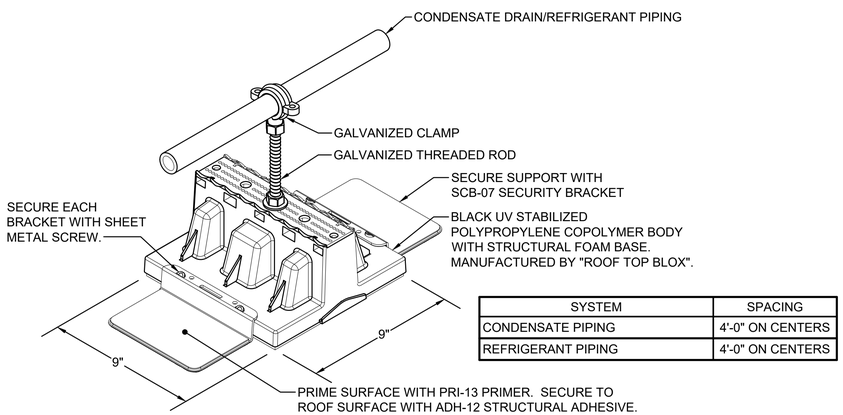
COIL CONDENSATE TRAP DETAIL

NOT TO SCALE (NEGATIVE PRESSURE)



TYPICAL CEILING DIFFUSER INSTALLATION DETAIL

NOT TO SCALE



SYSTEM	SPACING
CONDENSATE PIPING	4'-0" ON CENTERS
REFRIGERANT PIPING	4'-0" ON CENTERS

PIPING SUPPORT DETAIL

NOT TO SCALE

NEW WORK NOTES:

(THIS SHEET ONLY)

1. PROVIDE "GLOBAL PLASMA SOLUTIONS" MODEL "GPS-IMOD" BIPOLAR IONIZATION GENERATOR FOR AHU-1. IMOD SHALL BE MOUNTED UPSTREAM OF THE COOLING COIL AT THE TOP OF THE FINNED SURFACE AREA OF THE COIL. REFER TO FIGURE 1 FOR EXAMPLE. PROVIDE SUFFICIENT QUANTITY OF 6" IMOD SECTIONS TO MATCH THE WIDTH OF THE COOLING COIL. VERIFY THAT ALL MODULAR SECTIONS OF THE IMOD ARE ATTACHED SNUGLY TOGETHER IN ACCORDANCE WITH FIGURE 2.

2. PROVIDE "GLOBAL PLASMA SOLUTIONS" 15 WATT POWER SUPPLY WITH MULTI-VOLTAGE INPUT FOR EACH ROOFTOP UNIT. WIRE POWER SUPPLY TO IMOD UTILIZING 6'-0" FLEXIBLE POWER CABLE PROVIDED WITH IMOD. MOUNT POWER SUPPLY ON INSIDE OF ROOFTOP UNIT CABINET AND CONNECT TO UNIT POWER.

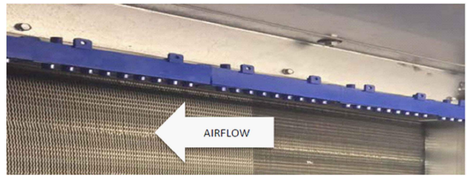


FIGURE 1: BI DEVICE MOUNTING LOCATION

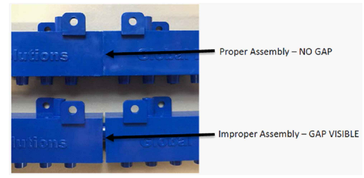
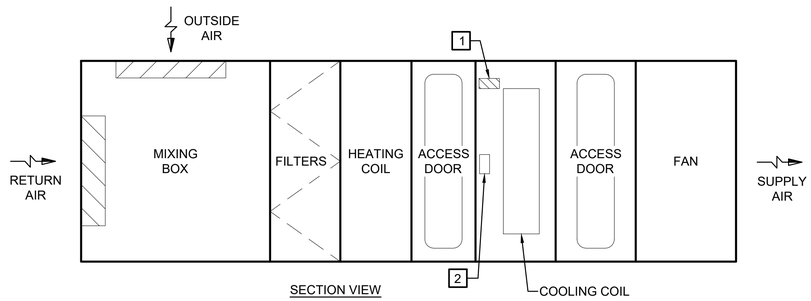
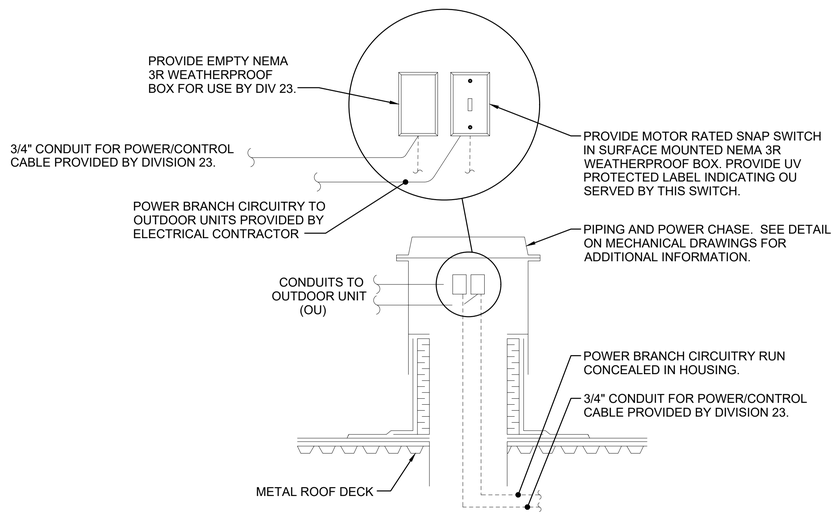


FIGURE 2: BI DEVICE MODULE ASSEMBLY



AIR HANDLING UNIT BIPOLAR IONIZATION INSTALLATION DIAGRAM

NOT TO SCALE (AHU-1)



TYPICAL POWER ROOF CHASE HOUSING PENETRATION DETAIL

NOT TO SCALE

THOMPSON
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22 ENTERPRISE PARKWAY
4325 COX ROAD
280P/S. LYNNHAVEN ROAD
TELEPHONE: (757) 599-4415
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FEBRUARY 4, 2025

MECHANICAL DETAILS

JOB NUMBER 2312

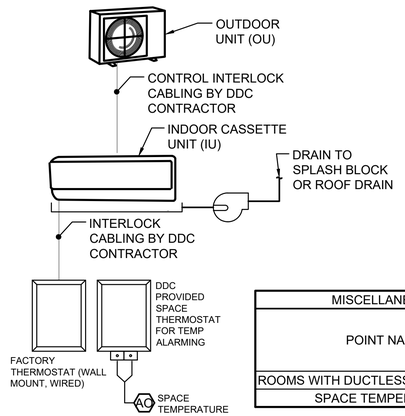
M2.02

DDC LEGEND

- AI — ANALOG INPUT HARDWARE POINT
- AO — ANALOG OUTPUT HARDWARE POINT
- AV — ANALOG VALUE SOFTWARE POINT
- BI — BINARY INPUT HARDWARE POINT
- BO — BINARY OUTPUT HARDWARE POINT
- BV — BINARY VALUE SOFTWARE POINT
- DI — DIGITAL INPUT HARDWARE POINT
- DO — DIGITAL OUTPUT HARDWARE POINT

ABBREVIATIONS

AF	AIR FLOW MONITOR
CR	CONDENSER RETURN PIPING
CS	CONDENSER SUPPLY PIPING
CSR	CURRENT SENSING RELAY
DX	DIRECT EXPANSION
HG	HOT GAS
HX	HEAT EXCHANGER
RA	RETURN AIR
SA	SUPPLY AIR
SF	SUPPLY FAN
S/S	START/STOP



IU/OU DIAGRAM

NOT TO SCALE

DUCTLESS SPLIT SYSTEM INDOOR UNIT

A. THE UNIT WILL OPERATE IN HEATING OR COOLING MODE AS CONTROLLED BY IT'S WALL MOUNTED THERMOSTAT PROVIDED WITH THE UNIT. A SPACE TEMPERATURE SENSOR MONITORED BY DDC SHALL ALARM ANYTIME SPACE TEMPERATURE RISES ABOVE 85°F OR DROPS BELOW 60°F FOR A PERIOD GREATER THAN 5 MINUTES.

MISCELLANEOUS	Hardware Points				Software Points				
POINT NAME	AI	AO	BI	BO	AV	BV	TREND	ALARM	SHOW ON GRAPHIC
ROOMS WITH DUCTLESS SPLIT SYSTEMS				X					
SPACE TEMPERATURE	X						X	X	X

VERTICAL UNIT VENTILATOR SEQUENCE OF OPERATION (FOR REFERENCE ONLY)

A. THE DDC SYSTEM SHALL MONITOR, ENABLE, AND CONTROL ALL POINTS AS SHOWN IN THE POINTS LIST. THE DATA POINTS SHOWN IN THE POINTS LIST BELOW ARE THE MINIMUM TO BE DISPLAYED ON THE USER INTERFACE GRAPHICS.

B. SUPPLY FAN CONTROL: ANY TIME THE DDC SYSTEM DETERMINES THAT THE SUPPLY AIR FAN SHOULD RUN, THE SYSTEM SHALL START THE FAN. THE FAN SHALL CYCLE ON DEMAND. WHEN THE SUPPLY FAN STATUS INDICATES THAT THE FAN HAS STARTED, THE APPROPRIATE CONTROL MODE SHALL BE ENABLED.

C. MORNING WARM - UP: THE DDC SHALL INDEX THE UNIT FOR MORNING WARM-UP AT AN OPTIMUM TIME TO HAVE THE ZONE UP TO THE OCCUPIED MODE TEMPERATURE BY THE OCCUPIED OPERATION TIME.

D. OCCUPIED MODE: THE DDC SYSTEM SHALL MONITOR THE SPACE TEMPERATURE AND CONTROL THE UNITS IN THE OCCUPIED MODE. WHENEVER THE UNIT IS INDEXED TO THE OCCUPIED MODE, THE DDC SHALL ENABLE THE SUPPLY FAN, OPEN OUTSIDE AIR DAMPER, MODULATE THE COMPRESSOR AS NECESSARY TO MAINTAIN THE ZONE TEMPERATURE SETPOINT.

E. OCCUPIED COOLING MODE: IF AT ANY TIME THE SPACE TEMPERATURE FALLS BELOW THE COOLING SETPOINT, THE DDC SYSTEM SHALL ENERGIZE AND MODULATE THE COMPRESSORS AS NECESSARY TO MAINTAIN ZONE TEMPERATURE SETPOINT AT ALL TIMES AS COMMUNICATED BY THE DDC SYSTEM (INITIALLY SET TO 74°F COOLING, ADJUSTABLE).

F. OCCUPIED HEATING MODE: IF AT ANY TIME THE SPACE TEMPERATURE FALLS BELOW THE HEATING SETPOINT, THE DDC SYSTEM SHALL DE-ENERGIZE THE COMPRESSORS AS NECESSARY TO MAINTAIN ZONE TEMPERATURE SETPOINT AT ALL TIMES AS COMMUNICATED BY THE DDC SYSTEM (INITIALLY SET TO 70°F HEATING, ADJUSTABLE).

G. UNOCCUPIED MODE NIGHT SETBACK/SETUP: WHEN IN THE "UNOCCUPIED MODE", THE UNIT SHALL CYCLE THE FAN, CLOSE THE OUTSIDE AIR DAMPER, MODULATE THE COMPRESSOR(S) AS NECESSARY TO MAINTAIN ZONE TEMPERATURE SETPOINT.

H. DEHUMIDIFICATION MODE: WHENEVER THE SPACE RELATIVE HUMIDITY RISES ABOVE THE SPACE SETPOINT, THE DDC SHALL INDEX THE COOLING SYSTEMS AND MODULATE THE HOT GAS REHEAT TO MAINTAIN A DISCHARGE AIR TEMPERATURE OF 72°F (ADJUSTABLE). THE DDC SHALL GIVE PREFERENCE TO THE SPACE TEMPERATURE AT ALL TIMES AND THE DEHUMIDIFICATION SEQUENCE SHALL NOT DROP THE SPACE TEMPERATURE SETPOINT.

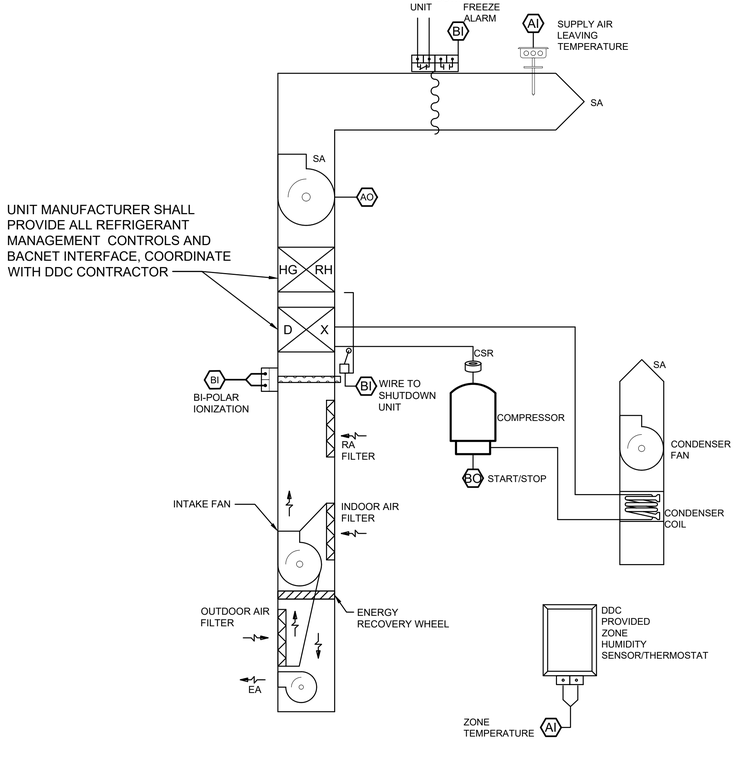
I. ECONOMIZER MODE: ECONOMIZER SHALL BE ENABLED WHENEVER THE OUTSIDE AIR IS BELOW 55°F, THE COMPRESSOR SHALL DE-ENERGIZE, THE OUTSIDE AIR DAMPER SHALL FULLY OPEN AND THE OUTSIDE AIR SHALL BE USED FOR COOLING.

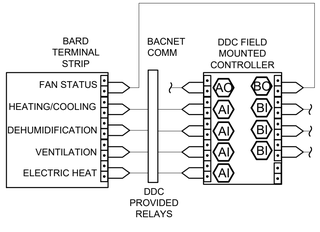
J. UNIT MALFUNCTION ALARM: THE DDC SHALL MONITOR THE STATUS OF THE UNIT AND WHENEVER THE UNIT IS SHUT DOWN ON ITS INTERNAL SAFETIES, THE DDC SHALL TRANSMIT A MALFUNCTION ALARM TO THE DDC SYSTEM'S OPERATOR WORKSTATION.

K. HIGH/LOW TEMPERATURE ALARM: WHENEVER THE SPACE TEMPERATURE RISES ABOVE OR FALLS BELOW THE SPACE TEMPERATURE SETPOINT, THE DDC SHALL TRANSMIT A HIGH/LOW TEMPERATURE ALARM TO THE DDC SYSTEM'S OPERATOR WORKSTATION.

L. SHUTDOWN: ANYTIME THE UNIT IS SHUT DOWN BY EITHER A COMMANDED STOP, SCHEDULE, OR SYSTEM SAFETY (INCLUDING CONDENSATE OVERFLOW), THE UNIT SHALL BE SET AS FOLLOWS: THE SUPPLY FAN AND UNIT COMPRESSOR SHALL BE OFF.

M. BIPOLAR IONIZATION: THE BIPOLAR GENERATOR SHALL BE POWERED BY A CONTROL TRANSFORMER PROVIDED WITH THE UNIT BY THE UNIT MANUFACTURER. THE ION GENERATOR SHALL CYCLE ON AND OFF WITH THE SUPPLY FAN. THE BAS SHALL ENABLE/DISABLE THE ION GENERATOR, MONITOR FOR FAULTS STATUS, AND SEND AN ALARM TO THE OWNER'S WORKSTATION IF A FAULT IS DETECTED.





VERTICAL UNIT VENTILATOR DIAGRAM (FOR REFERENCE ONLY)

(ALL UNIT VENTILATORS)

SYSTEM POINT LIST

	HARDWARE POINTS				SOFTWARE POINTS						
POINT NAME	AI	AO	BI	BO	AV	BV	LOOP	SCHED	TREND	ALARM	SHOW ON GRAPHIC
SUPPLY AIR LEAVING TEMPERATURE	X								X		X
SUPPLY FAN STATUS		X								X	X
ZONE HUMIDITY/TEMP	X								X	X	X
ZONE SETPOINT (ADJUSTABLE)	X										X
FREEZESTAT			X						X	X	X
COMPRESSOR START/STOP				X					X		X
OCCUPIED/UNOCCUPIED								X			
ECONOMIZER MODE	X										
BIPOLAR IONIZATION STATUS			X							X	X
CONDENSATE OVERFLOW DETECTION			X							X	X

VERTICAL UNIT VENTILATOR POINTS LIST

(ALL UNIT VENTILATORS)

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SECURITY VESTIBULE & OFFICE ADDITION AND ALTERATIONS FOR YATES ELEMENTARY SCHOOL

73 MAXWELL LN, NEWPORT NEWS
VA 23606

COMMONWEALTH OF VIRGINIA
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Lic. No. 023349
12/30/2024
PROFESSIONAL ENGINEER

FEBRUARY 4, 2025

CONTROL DIAGRAMS

JOB NUMBER 2312

M3.01

MULTIPLE ZONES VARIABLE AIR VOLUME AIR HANDING UNIT SEQUENCE OF OPERATION

THE BAS SHALL COMMAND THE UNIT INTO OCCUPIED/UNOCCUPIED MODE AND MONITOR ALL POINTS OF THE CONTROL DESCRIBED IN THIS SEQUENCE. THE UNITS CONTROLLER SHALL START AND STOP THE SUPPLY FAN, MODULATE THE OUTSIDE AIR DAMPER AND RETURN AIR DAMPER, MODULATE THE COMPRESSOR FOR DIRECT EXPANSION COOLING AND HEATING, MODULATE THE CONDENSER REHEAT COIL VALVE, ENABLE AND MODULATE THE CONDENSING UNIT, AND MONITOR ALARM POINTS.

MORNING WARMUP: THE UNIT MOUNTED CONTROLLER SHALL DETERMINE MORNING WARMUP TIME BASED ON THE INITIAL OCCUPANCY COMMAND FROM THE BUILDING OCCUPANCY SCHEDULE. IF THE RETURN AIR TEMPERATURE IS BELOW THE MORNING WARMUP TEMPERATURE SETPOINT OF 55°F, THE WARMUP MODE SHALL BE INITIATED AND HEATING SHALL BE ENABLED AND MODULATED UNTIL THE RETURN AIR TEMPERATURE RISES ABOVE THE MORNING WARMUP TEMPERATURE SETPOINT AND THE UNIT MOUNTED CONTROLLER DISABLES THE WARMUP MODEL. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED DURING WARMUP MODE.

MORNING COOLDOWN: THE UNIT MOUNTED CONTROLLER SHALL DETERMINE MORNING COOLDOWN TIME BASED ON INITIAL OCCUPANCY COMMAND FROM THE BUILDING OCCUPANCY SCHEDULE. IF THE RETURN AIR TEMPERATURE IS ABOVE THE MORNING COOLDOWN TEMPERATURE SETPOINT OF 55°F, THE COOLDOWN MODE SHALL BE ENABLED AND THE DX COOLING SHALL BE ENABLED AND MODULATED UNTIL THE RETURN TEMPERATURE FALLS BELOW THE MORNING COOLDOWN TEMPERATURE SETPOINT AND THE UNIT MOUNTED CONTROLLER DISABLES THE COOLDOWN MODEL. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED DURING COOLDOWN MODE.

OCCUPIED:

1. WHEN THE UNIT IS INDEXED TO THE OCCUPIED MODE BY THE BAS, THE UNIT MOUNTED CONTROLLER SHALL ENABLE THE SUPPLY FAN. ONCE THE SUPPLY AIR FAN OPERATION HAS BEEN ESTABLISHED AS SENSED BY ITS RESPECTIVE PROOF OF LOW SWITCH, THE UNIT MOUNTED CONTROLLER SHALL OPEN THE OUTSIDE AIR DAMPER TO ITS MINIMUM POSITION, AND PROPORTIONALLY CLOSE THE RETURN AIR DAMPER.

2. COOLING: ON A RISE ABOVE THE LEAVING AIR TEMPERATURE SETPOINT OF 55°F, THE UNIT SHALL ENABLE THE CONDENSING UNIT, MODULATE THE REVERSING VALVE TO THE COOLING POSITION, AND BEGIN TO MODULATE THE COMPRESSOR ON TO MAINTAIN THE LEAVING AIR TEMPERATURE OF 55°F. ON A FALL BELOW THE LEAVING AIR TEMPERATURE SETPOINT, THE REVERSE SHALL OCCUR.

3. DX HEATING: ON A FALL BELOW THE LEAVING AIR TEMPERATURE SETPOINT OF 50°F (ADJ.), THE UNIT MOUNTED CONTROLLER SHALL ENABLE THE CONDENSING UNIT, INDEX THE REVERSING VALVE INTO THE HEATING POSITION, AND MODULATE THE COMPRESSOR TO MAINTAIN THE LEAVING AIR TEMPERATURE SETPOINT. ON A RISE ABOVE THE LEAVING AIR TEMPERATURE SETPOINT, THE REVERSE SHALL OCCUR.

4. SUPPLY FAN SPEED SHALL BE CONTROLLED TO MAINTAIN DOWN DUCT SUPPLY AIR STATIC PRESSURE SETPOINT. SYSTEM SHALL MONITOR THE PRIMARY AIR VALVE POSITION ON ALL TERMINAL VARIABLE AIR VOLUME BOXES AND RESET THE SUPPLY DUCT STATIC PRESSURE SETPOINT SO THAT AT LEAST ONE TERMINAL VAV BOXES PRIMARY AIR VALVE IS AT LEAST 95% OPEN. IF THE DISCHARGE STATIC PRESSURE RISES ABOVE THE STATIC HIGH-PRESSURE SETPOINT, (4" WC ADJ.) SUPPLY FAN SHALL BE DISABLED. MANUAL RESET SHALL BE REQUIRED TO RESTART UNIT.

5. ECONOMIZER: WHEN THE OUTSIDE AIR TEMPERATURE IS 55°F (ADJ.) OR BELOW, AND THE SPACE TEMPERATURE IS ABOVE ITS RESPECTIVE PROGRAMMED COOLING TEMPERATURE SETPOINT, THE COMPRESSOR SHALL BE DISABLED AND THE OUTSIDE AND RETURN AIR DAMPERS SHALL BE MODULATED OPEN AND CLOSED RESPECTIVELY TO MAINTAIN THE OPEN AND THE SPACE TEMPERATURE SETPOINT. IF THE OUTSIDE AIR DAMPER IS 100% OPEN AND THE SUPPLY AIR TEMPERATURE IS STILL ABOVE SETPOINT (55°F), THE UNIT MOUNTED CONTROLLER SHALL ENABLE AND MODULATE THE DX COOLING TO MAINTAIN THE SUPPLY AIR TEMPERATURE SETPOINT. ON A FALL BELOW THE SPACE TEMPERATURE SETPOINT, THE UNIT MOUNTED CONTROLLER SHALL DISABLE THE COMPRESSOR, MODULATE THE OUTSIDE AIR DAMPER TO ITS MINIMUM POSITION, AND MODULATE THE RETURN AIR DAMPER PROPORTIONALLY OPEN. WHEN THE OUTSIDE AIR TEMPERATURE RISES ABOVE 55°F, THE UNIT SHALL REVERT TO ITS COOLING AND/OR HEATING SEQUENCES.

UNOCCUPIED:

1. WHEN THE AIR HANDLING UNIT IS INDEXED TO THE UNOCCUPIED MODE, THE OUTSIDE AIR DAMPER SHALL MODULATE FULLY CLOSED, THE RETURN AIR DAMPER SHALL MODULATE FULLY OPEN AND THE SUPPLY AIR FAN SHALL BE DISABLED.

2. COOLING: ON A RISE ABOVE THE PROGRAMMED HIGH LIMIT SPACE TEMPERATURE SETPOINT OF 80°F (ADJ.) THE SUPPLY AIR FAN SHALL BE ENABLED. AFTER THE SUPPLY AIR FAN OPERATION IS ESTABLISHED BY ITS RESPECTIVE PROOF OF FLOW SWITCH, THE UNIT MOUNTD CONTROLLER SHALL ENABLE THE CONDENSING UNIT, MODULATE THE REVERSING VALVE TO THE COOLING POSITION, AND ENABLE AND MODULATE THE COMPRESSOR TO MAINTAIN THE HIGH LIMIT SPACE TEMPERATURE SETPOINT. ON A FALL BELOW THE UNOCCUPIED HIGH LIMIT SPACE TEMPERATURE SETPOINT, THE UNIT MOUNTED CONTROLLER SHALL DISABLE THE CONDENSING UNIT, DISABLE THE COMPRESSOR AND DISABLE THE SUPPLY AIR FAN.

3. DX HEATING: WHEN THE CRITICAL ZONE FALLS BELOW THE PROGRAMMED UNOCCUPIED LOW LIMIT SPACE TEMPERATURE SETPOINT OF 60°F (ADJ.), THE SUPPLY AIR FAN SHALL BE ENABLED. AFTER THE SUPPLY AIR FAN OPERATION IS ESTABLISHED BY ITS RESPECTIVE PROOF OF FLOW SWITCH, THE UNIT MOUNTED CONTROLLER SHALL ENABLE THE CONDENSING UNIT, MODULATE THE REVERSING VALVE TO THE HEATING POSITION, AND ENABLE AND MODULATE THE COMPRESSOR TO MAINTAIN THE LOW LIMIT SPACE TEMPERATURE SETPOINT. ON A RISE ABOVE THE UNOCCUPIED LOW LIMIT SPACE TEMPERATURE SETPOINT, DISABLE THE CONDENSING UNIT, DISABLE THE COMPRESSOR AND DISABLE THE SUPPLY AIR FAN.

4. SUPPLY FAN SPEED SHALL BE CONTROLLED TO MAINTAIN DOWN DUCT SUPPLY AIR STATIC PRESSURE SETPOINT. SYSTEM SHALL MONITOR THE PRIMARY AIR VALVE POSITION ON ALL TERMINAL VARIABLE AIR VOLUME BOXES AND RESET THE SUPPLY DUCT STATIC PRESSURE SETPOINT SO THAT AT LEAST ONE TERMINAL VAV BOXES PRIMARY AIR VALVE IS AT LEAST 95% OPEN. IF THE DISCHARGE STATIC PRESSURE RISES ABOVE THE STATIC HIGH-PRESSURE SETPOINT, (4" WC ADJ.) SUPPLY FAN SHALL BE DISABLED. MANUAL RESET SHALL BE REQUIRED TO RESTART UNIT.

5. DEHUMIDIFICATION: ON A RISE IN SPACE RELATIVE HUMIDITY ABOVE THE SPACE RELATIVE HUMIDITY SETPOINT OF 60% RH (ADJ.), IF AND ONLY IF THE SPACE TEMPERATURE SETPOINT IS SATISFIED, THE UNIT CONTROLLER SHALL MODULATE THE ASSOCIATED SHUT-OFF BOX DAMPER FULLY OPEN AND THE SUPPLY AIR FAN SHALL BE ENABLED. AFTER THE SUPPLY AIR FAN OPERATION IS ESTABLISHED BY ITS RESPECTIVE PROOF OF FLOW SWITCH, THE UNIT MOUNTED CONTROLLER SHALL ENABLE THE CONDENSING UNIT, MODULATE THE REVERSING VALVE TO THE COOLING POSITION, AND ENABLE AND MODULATE THE COMPRESSOR TO MAINTAIN THE SATURATION TEMPERATURE SETPOINT OF 53°F (ADJ.) AND THE HOT GAS REHEAT SOLENOID VALVE SHALL MODULATE TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. ON A FALL BELOW THE SPACE RELATIVE HUMIDITY SETPOINT, THE REVERSE SHALL OCCUR.

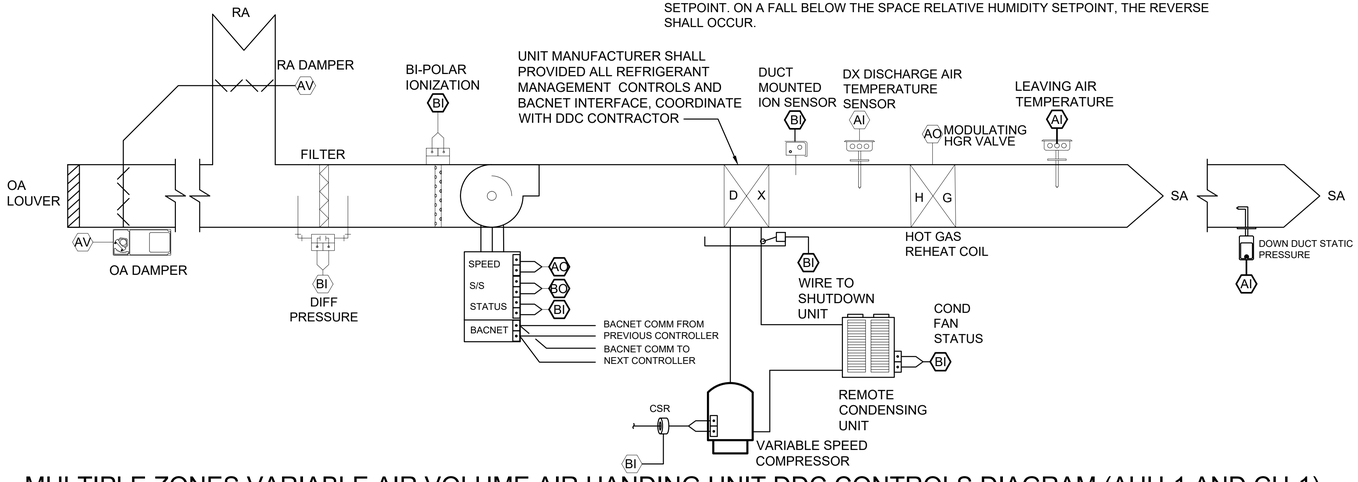
GRAPHICAL USER INTERFACE MAIN SCREEN

POINT NAME	HARDWARE POINTS AI	AO	BI	BO	SOFTWARE POINTS AV	BV	TREND	ALARM	SHOW ON GRAPHIC
OCCUPIED/UNOCCUPIED MODE						X	X		X
SUPPLY FAN START/STOP			X						X
SUPPLY FAN STATUS						X	X	X	X
SUPPLY FAN SPEED		X					X		X
OUTSIDE AIR TEMP (1)	X								X
COMPRESSOR STATUS (2)			X					X	X
COMPRESSOR SPEED	X							X	X
DOWN DUCT STATIC PRESSURE	X								X
DX DISCHARGE AIR TEMP.	X								X
LEAVING AIR TEMPERATURE	X								X
FLOW SENSOR			X						X
OUTSIDE AIR DAMPER POSITION					X		X	X	X
RETURN AIR DAMPER POSITION					X				X
HOT GAS REHEAT COIL		X					X	X	X
CONDENSATE SWITCH			X					X	X
BIPOLAR IONIZATION ENABLE			X				X		X
BIPOLAR IONIZATION STATUS	X						X	X	X
FILTER STATUS			X					X	X

(1) OUTSIDE AIR TEMPERATURE FOR ECONOMIZER FUNCTION SHALL BE OBTAINED FROM EXISTING GLOBAL OUTSIDE AIR TEMPERATURE SENSOR.

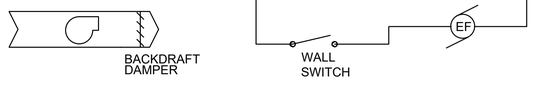
(2) FIELD INSTALLED AND PROGRAMMED CT'S BY DDC CONTRACTOR IF FACTORY-PROVIDED COMPRESSOR STATUS POINTS ARE NOT AVAILABLE.

MULTIPLE ZONES VARIABLE AIR VOLUME AIR HANDING UNIT POINTS LIST



MULTIPLE ZONES VARIABLE AIR VOLUME AIR HANDING UNIT DDC CONTROLS DIAGRAM (AHU-1 AND CU-1)

NOT TO SCALE



EF-9 DIAGRAM

NOT TO SCALE

EXHAUST FAN DIAGRAM

NOT TO SCALE

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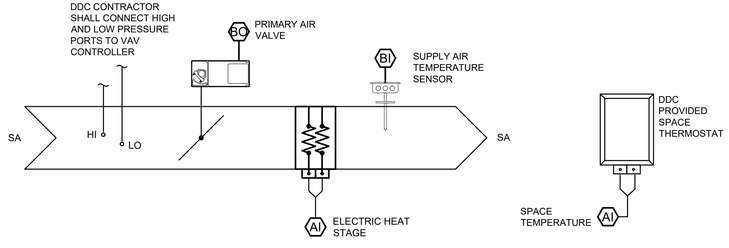
CONTROL DIAGRAMS

JOB NUMBER 2312

M3.02



SINGLE DUCT SHUT OFF BOX WITH ELECTRIC REHEAT CONTROL DIAGRAM

NOT TO SCALE

SINGLE DUCT SHUT OFF BOX WITH ELECTRIC REHEAT SEQUENCE OF OPERATIONS

1. THE BAS SHALL COMMAND THE UNIT INTO OCCUPIED/UNOCCUPIED MODE AND MONITOR ALL POINTS OF CONTROL DESCRIBED IN THIS SEQUENCE. THE UNIT'S CONTROLLER SHALL MODULATE THE PRIMARY AIR VALVE. THE BAS SHALL PROVIDE THE LOCAL SPACE TEMPERATURE SETPOINTS TO THE UNIT CONTROLLER, BUT IF COMMUNICATION IS LOST WITH THE BAS, THE UNIT CONTROLLER SHALL OPERATE USING ITS LOCAL SETPOINTS.

2. OCCUPIED SPACE TEMPERATURE CONTROL:

   A. THE UNIT SHALL MAINTAIN SPACE TEMPERATURE AS SENSED BY THE LOCAL SPACE TEMPERATURE SENSOR. TEMPERATURE SETPOINTS SHALL BE COMMUNICATED BY THE BAS WITH ±2°F OF ALLOWABLE LOCAL SETPOINT ADJUSTMENT.

   B. WHILE THE SPACE TEMPERATURE IS BETWEEN THE OCCUPIED HEATING SETPOINT (70°F) AND OCCUPIED COOLING SETPOINT (74°F), THE UNIT CONTROLLER SHALL MODULATE THE AIR VALVE TO THE POSITION CORRESPONDING TO ITS SCHEDULED MINIMUM CFM.

   C. ON A RISE IN SPACE TEMPERATURE ABOVE THE COOLING SETPOINT, THE UNIT CONTROLLER SHALL MODULATE THE AIR VALVE TOWARDS ITS MAXIMUM POSITION TO MAINTAIN SPACE TEMPERATURE AT THE COOLING SETPOINT.

   D. ON A FALL IN SPACE TEMPERATURE BELOW THE HEATING SETPOINT, THE UNIT CONTROLLER SHALL MODULATE THE AIR VALVE TO THE POSITION CORRESPONDING TO ITS SCHEDULED MINIMUM CFM TO MAINTAIN SPACE TEMPERATURE AT THE HEATING SETPOINT.

3. UNOCCUPIED SPACE TEMPERATURE CONTROL

   A. THE UNIT SHALL MAINTAIN SPACE TEMPERATURE AS SENSED BY THE LOCAL SPACE TEMPERATURE SENSOR. TEMPERATURE SETPOINTS SHALL BE COMMUNICATED BY THE BAS WITH THE OPTION FOR 1-HR OVERRIDE AT THE LOCAL TEMPERATURE SENSOR.

   B. WHILE THE SPACE TEMPERATURE IS BETWEEN THE UNOCCUPIED HEATING SETPOINT (60°F) AND UNOCCUPIED COOLING SETPOINT (80°F), THE UNIT CONTROLLER SHALL MODULATE THE AIR VALVE TO THE POSITION CORRESPONDING TO ITS SCHEDULED MINIMUM CFM.

   C. ON A RISE IN SPACE TEMPERATURE ABOVE THE UNOCCUPIED COOLING SETPOINT, THE BAS SHALL COMMAND THE ASSOCIATED AIR HANDLING UNIT TO THE UNOCCUPIED COOLING MODE. THE UNIT SHALL MODULATE THE AIR VALVE TOWARDS ITS MAXIMUM POSITION TO MAINTAIN THE SPACE TEMPERATURE AT THE UNOCCUPIED COOLING SETPOINT.

   D. ON A FALL IN SPACE TEMPERATURE BELOW THE UNOCCUPIED HEATING SETPOINT, THE UNIT CONTROLLER SHALL MODULATE THE AIR VALVE TO MAINTAIN THE SPACE TEMPERATURE AT THE UNOCCUPIED HEATING SETPOINT.

4. MORNING WARMUP: WHEN THE ASSOCIATED AIR HANDLING UNIT HAS BEEN INDEXED TO THE WARMUP MODE, THE UNIT SHALL OPEN THE AIR VALVE TO ITS MAXIMUM POSITION UNTIL THE SPACE TEMPERATURE RISES ABOVE THE OCCUPIED HEATING SETPOINT. ONCE SPACE TEMPERATURE IS SATISFIED, THE AIR VALVE SHALL CLOSE TO THE POSITION CORRESPONDING TO ITS SCHEDULED MINIMUM CFM.

5. MORNING COOL-DOWN: WHEN THE ASSOCIATED AIR HANLDING UNIT HAS BEEN INDEXED TO THE COOL-DOWN MODE, THE UNIT SHALL OPEN THE AIR VALVE TO ITS MAXIMUM POSITION UNTIL THE SPACE TEMPERATURE FALLS BELOW THE OCCUPIED COOLING SETPOINT. ONCE SPACE TEMPERATURE IS SATISFIED, THE AIR VALVE SHALL MODULATE TO MAINTAIN SPACE OCCUPIED SPACE TEMPERATURE.

6. REHEAT CONTROL:

   A. REHEAT SHALL ONLY BE ALLOWED WHEN THE PRIMARY AIR TEMPERATURE IS 5.0 DEG. F BELOW THE CONFIGURED REHEAT ENABLE SETPOINT OF 70.0 DEG. F (ADJ.). THE REHEAT SHALL BE ENABLED WHEN THE SPACE TEMPERATURE DROPS BELOW THE ACTIVE COOLING SETPOINT AND THE AIRFLOW IS AT THE MINIMUM COOLING AIRFLOW SETPOINT. DURING REHEAT THE VAV SHALL OPERATE AT ITS MINIMUM HEATING AIRFLOW SETPOINT AND ENERGIZE THE HEAT AS FOLLOWS:

      ELECTRIC REHEAT: IF THE SPACE TEMPERATURE IS BELOW THE HEATING SETPOINT THE ELECTRIC RESISTANCE REHEAT COIL SHALL STAGE AS REQUIRED TO MAINTAIN THE ACTIVE HEATING SETPOINT.

GRAPHICAL USER INTERFACE MAIN SCREEN

	HARDWARE POINTS				SOFTWARE POINTS					
POINT NAME	AI	AO	BI	BO	AV	BV	TREND	ALARM	SHOW ON GRAPHIC	DEFAULT VALUE
SPACE TEMPERATURE	X						X	X	X	
SPACE TEMP. SETPOINT					X				X	
DISCHARGE AIR TEMPERATURE	X						X	X	X	
PRIMARY AIR CFM				X					X	
OCCUPANCY						X				
OCCUPIED COOLING SETPOINT						X				74°F
OCCUPIED HEATING SETPOINT						X				70°F
UNOCCUPIED COOLING SETPOINT						X				80°F
UNOCCUPIED HEATING SETPOINT						X				60°F
OCCUPIED BYPASS TIMER										2 HOURS
# OF SPARE POINTS	3		3	3						

NOTE: THE GRAPHICS SHALL INCLUDE THE SETPOINT DISPLAY FOR EACH CONTROLLED OR MONITORED VARIABLE.

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FEBRUARY 4, 2025

CONTROL DIAGRAMS

JOB NUMBER 2312

M3.03

ELECTRICAL LEGEND

LIGHTING:

- EXISTING 2' X 4' LIGHT FIXTURE.
- EXISTING 1' X 4' LIGHT FIXTURE.
- EXISTING EXIT LIGHT FIXTURE.
- EXISTING CEILING MOUNTED EXTERIOR DOWNLIGHT FIXTURE.
- M — EXISTING WALL MOUNTED OCCUPANCY SENSOR.
- EXISTING WALL MOUNTED EMERGENCY LIGHT FIXTURE WITH SELF-CONTAINED BATTERY PACK.
- 7 — NEW 2' X 4' LED LIGHT FIXTURE. NUMBER SUBSCRIPT INDICATES LIGHT FIXTURE TYPE.
- N 8 — NEW 2' X 4' LED LIGHT FIXTURE WITH SELF CONTAINED EMERGENCY BATTERY PACK. NUMBER SUBSCRIPT INDICATES LIGHT FIXTURE TYPE. SUBSCRIPT 'N', WHEN USED, INDICATES NIGHT LIGHT (ALWAYS ON) FIXTURE.
- 4 — NEW PENDANT MOUNTED LED LIGHT FIXTURE. NUMBER SUBSCRIPT INDICATES LIGHT FIXTURE TYPE.
- N 5 — NEW PENDANT MOUNTED LED LIGHT FIXTURE WITH SELF CONTAINED EMERGENCY BATTERY PACK. NUMBER SUBSCRIPT INDICATES LIGHT FIXTURE TYPE. SUBSCRIPT 'N', WHEN USED, INDICATES NIGHT LIGHT (ALWAYS ON) FIXTURE.
- 2 — NEW DOWNLIGHT LED LIGHT FIXTURE. NUMBER SUBSCRIPT INDICATES LIGHT FIXTURE TYPE.
- 3,N — NEW DOWNLIGHT LED LIGHT FIXTURE WITH SELF CONTAINED EMERGENCY BATTERY PACK. NUMBER SUBSCRIPT INDICATES LIGHT FIXTURE TYPE. SUBSCRIPT 'N', WHEN USED, INDICATES NIGHT LIGHT (ALWAYS ON) FIXTURE.
- 14 — NEW WALL MOUNTED LED LIGHT FIXTURE WITH SELF CONTAINED EMERGENCY BATTERY PACK. NUMBER SUBSCRIPT INDICATES LIGHT FIXTURE TYPE
- 1 — NEW CEILING MOUNTED EXIT LIGHT FIXTURE WITH SELF CONTAINED EMERGENCY BATTERY PACK. NUMBER SUBSCRIPT INDICATES LIGHT FIXTURE TYPE. SHADING INDICATES NUMBER OF FACES LIT.
- 1 — NEW WALL MOUNTED EXIT LIGHT FIXTURE WITH SELF CONTAINED EMERGENCY BATTERY PACK. NUMBER SUBSCRIPT INDICATES LIGHT FIXTURE TYPE. SHADING INDICATES NUMBER OF FACES LIT.
- OS — CEILING MOUNTED LINE VOLTAGE OCCUPANCY SENSOR. PROVIDE SENSOR SWITCH CATALOG NUMBER CMR-PDT-10 OR APPROVED EQUAL.
- LIGHTING BRANCH CIRCUIT WIRING IN CONDUIT (SHOWN ON LIGHTING DRAWINGS). RUN CONCEALED ABOVE CEILING, IN WALLS, BELOW FLOOR SLAB OR UNDERGROUND. AS A MINIMUM, EACH SINGLE-PHASE LIGHTING CIRCUIT SHALL HAVE ONE #12 PHASE CONDUCTOR, ONE #12 NEUTRAL CONDUCTOR, AND ONE #12 GROUND CONDUCTOR IN 3/4" CONDUIT. PROVIDE ADDITIONAL CONDUCTORS AS REQUIRED FOR LIGHTING CONTROLS, SWITCH LEG, THREE-WAY, AND FOUR-WAY LIGHT SWITCHES. PROVIDE ADDITIONAL PHASE CONDUCTORS FOR EXIT LIGHTS, EMERGENCY LIGHTING EQUIPMENT AND DEVICES. PROVIDE ADDITIONAL CONDUCTORS FOR LIGHTING DIMMING CONTROLS. MULTIPLE LIGHTING CIRCUITS SERVING DIMMING LOADS SHALL NOT SHARE COMMON NEUTRALS. EACH CIRCUIT SHALL HAVE AN INDIVIDUAL NEUTRAL. SEE NOTES ON DRAWINGS AND PANELBOARD SCHEDULES FOR CONDUCTOR SIZES LARGER THAN #12.
- S — SINGLE POLE SWITCH, 20A, 120/277V, AC. INSTALL +42" A.F.F., U.O.N.
- S3 — THREE-WAY SWITCH, 20A, 120/277V, AC. INSTALL +42" A.F.F., U.O.N.
- SOS — OCCUPANCY SENSOR SWITCH, 20A, 120/277V, AC. INSTALL +42" A.F.F., U.O.N.
- SDOS — COMBINATION OCCUPANCY SENSOR WITH DIMMER SWITCH, 20A, 120/277V, AC. INSTALL +42" A.F.F., U.O.N.
- 40 fc — FOOTCANDLE INDICATOR.
- 105 — ROOM NUMBER INDICATOR.
- 1 — NEW WORK NOTE INDICATOR.
- 1 — DEMOLITION NOTE INDICATOR.

INTRUSION DETECTION SYSTEM:

- KP — EXISTING INTRUSION DETECTION SYSTEM KEY PAD.
- P — PANIC BUTTON STATION. PROVIDE 1-GANG OUTLET BOX. PROVIDE 3/4" EMPTY CONDUIT WITH PULLWIRE FROM OUTLET BOX TO ABOVE LAY-IN TILE CEILING. INSTALL BELOW COUNTERTOP, U.O.N. COORDINATE EXACT LOCATION WITH OWNER.
- MD — CEILING MOUNTED MOTION DETECTOR.

POWER:

- TV — EXISTING WALL MOUNTED TELEVISION.
- C — EXISTING CEILING MOUNTED RECEPTACLE.
- PP — EXISTING POWER POLL.
- E — ELECTRICAL CONNECTION TO EQUIPMENT.
- EF — ELECTRICAL CONNECTION TO EXHAUST FAN. DISCONNECT SWITCH, AND SOLID STATE CONTROLLER.
- J — JUNCTION BOX, SIZE AS REQUIRED.
- PANELBOARD, 208Y/120 VOLT.
- GFI / WP,GFI / 4 — TAMPER PROOF, DUPLEX RECEPTACLE, 20A, 120V. INSTALL +18" TO CENTER OF RECETACLE, U.O.N. IF CENTER SHADED, INSTALL +6" ABOVE COUNTERTOP OR BACKSPLASH. "GFI" WHEN USED INDICATES TAMPER PROOF GROUND FAULT CIRCUIT INTERRUPTER. "WP" WHEN USED INDICATES TAMPER PROOF WEATHER RESISTANT RECEPTACLE WITH WEATHERPROOF WHILE IN USE ENCLOSURE. "4" WHEN USED INDICATES DOUBLE DUPLEX RECEPTACLE.
- TV — DUPLEX RECEPTACLE, 20A, 120V, FOR WALL MOUNTED TELEVISION. INSTALL 6" BELOW CEILING.
- CONDUIT RUN CONCEALED ABOVE CEILING.
- L1-11 — HOMERUNS TO PANEL. PANEL & CIRCUIT DESIGNATIONS AS INDICATED.
- POWER BRANCH CIRCUIT OR FEEDER WIRING IN CONDUIT. NO TICK MARKS INDICATES 2 #12 CONDUCTORS & 1 #12 GND IN 1/2" CONDUIT U.O.N. TICK MARKS, WHEN SHOWN, INDICATE NUMBER OF CONDUCTORS IF OTHER THAN THREE: (7) INDICATES GROUNDING CONDUCTOR. SEE PANELBOARD SCHEDULE AND NOTES ON DRAWINGS FOR CONDUCTOR SIZES LARGER THAN #12.
- 3P 60/40 3R — DISCONNECT SWITCH, 600V, U.O.N.: 3P = NUMBER OF POLES, 60 = SWITCH RATING, 40 = FUSE RATING. 3R = NEMA 3R ENCLOSURE.
- SM — MOTOR RATED SNAP SWITCH, SINGLE POLE, 20A, 600V.
- SM30 — MOTOR RATED SNAP SWITCH, SINGLE POLE, 30A, 600V.
- SM60 — MOTOR RATED SNAP SWITCH, SINGLE POLE, 60A, 600V.
- SM2WP — MOTOR RATED SNAP SWITCH, TWO-POLE, 20A, 600V, IN WEATHERPROOF ENCLOSURE.

FIRE ALARM SYSTEM:

- F — EXISTING FIRE ALARM PULL STATION. INSTALL +42" A.F.F. TO CENTER.
- EXISTING WALL MOUNTED FIRE ALARM NOTIFICATION DEVICE.
- HS — EXISTING CEILING MOUNTED FIRE ALARM NOTIFICATION DEVICE.
- S — EXISTING CEILING MOUNTED SMOKE DETECTOR.
- FACP — EXISTING FIRE ALARM CONTROL PANEL.
- FAPEP — EXISTING FIRE ALARM POWER EXTENDER PANEL.
- 15 — NEW VISUAL DEVICE. INSTALL ON WALL AT +80" A.F.F. TO BOTTOM OF LENS OR +96" A.F.F. TO TOP OF THE LENS. SUBSCRIPT INDICATES CANDELA RATING. INSTALL FLUSH IN NEW WALLS. PROVIDE WITH SURFACE METAL OUTLET RACEWAY, WIREMOLD 700 SERIES WHEN SHOWN ON EXISTING WALLS.
- 30 — NEW AUDIO/VISUAL DEVICE. INSTALL ON WALL AT +80" A.F.F. TO BOTTOM OF LENS OR +96" A.F.F. TO TOP OF THE LENS. SUBSCRIPT INDICATES CANDELA RATING. INSTALL FLUSH IN NEW WALLS. PROVIDE WITH SURFACE METAL OUTLET RACEWAY, WIREMOLD 700 SERIES WHEN SHOWN ON EXISTING WALLS.
- MAGNETIC DOOR HOLD-OPEN DEVICE FURNISHED BY OWNER. PROVIDE 1-GANG OUTLET BOX. INSTALL OUTLET BOX AT +84" A.F.F. INSTALL FLUSH IN NEW WALLS. PROVIDE 3/4" EMPTY CONDUIT WITH PULLWIRE FROM OUTLET BOX TO ABOVE LAY-IN TILE CEILING.

TELECOMMUNICATIONS SYSTEM:

- MDF — EXISTING MDF RACK.
- 2,4 — EXISTING DATA OUTLET. NUMBER SUBSCRIPT, WHEN USED, INDICATES NUMBER OF INSERTS AND CABLE HOMERUNS.
- EXISTING PHONE OUTLET.
- EXISTING COAXIAL OUTLET.
- WA — EXISTING CEILING MOUNTED WIRELESS ACCESS DEVICE.
- 4 — NEW DATA OUTLET. PROVIDE 1-GANG OUTLET BOX WITH 1-GANG COVERPLATE. PROVIDE EMPTY CONDUIT WITH PULLWIRE FROM OUTLET BOX TO ABOVE LAY-IN TILE CEILING. INSTALL +18" A.F.F., U.O.N. INSTALL FLUSH IN NEW WALLS. PROVIDE WITH SURFACE METAL OUTLET RACEWAY, WIREMOLD 700 SERIES WHEN SHOWN ON EXISTING WALLS. NUMBER SUBSCRIPT, WHEN USED, INDICATES NUMBER OF INSERTS AND CABLE HOMERUNS.
- 2 — NEW DATA OUTLET INSTALLED +6" ABOVE COUNTERTOP OR BACKSPLASH. INSTALL FLUSH IN NEW WALLS. PROVIDE WITH SURFACE METAL OUTLET RACEWAY, WIREMOLD 700 SERIES WHEN SHOWN ON EXISTING WALLS. NUMBER SUBSCRIPT, WHEN USED, INDICATES NUMBER OF INSERTS AND CABLE HOMERUNS.
- NEW DATA AND COAXIAL OUTLET. PROVIDE 2-GANG OUTLET BOX WITH 2-GANG COVERPLATE. PROVIDE TWO (2) EMPTY CONDUITS WITH PULLWIRE FROM OUTLET BOX TO ABOVE LAY-IN TILE CEILING. INSTALL FLUSH IN WALL 6" BELOW CEILING IN NEW WALL.
- PROVIDE 3/4" EMT CONDUIT SLEEVE U.O.N. FOR AUXILIARY SYSTEMS ABOVE CEILING (QUANTITY AS INDICATED) 24" LONG MINIMUM, BUT WITH NOT LESS THAN 4" OF CONDUIT ON EACH SIDE OF WALL U.O.N. PROVIDE UL APPROVED FIRE SEALS. PROVIDE BUSHINGS ON EACH END.

ACCESS CONTROL SYSTEM:

- CR E — ACCESS CONTROL SYSTEM CARD READER. PROVIDE 1-GANG OUTLET BOX. PROVIDE 3/4" EMPTY CONDUIT WITH PULLWIRE FROM OUTLET BOX TO ABOVE LAY-IN TILE CEILING. SUBSCRIPT "E", WHEN USED, INDICATES EXISTING ACCESS CONTROL SYSTEM CARD READER REUSED.
- DC — ACCESS CONTROL SYSTEM DOOR POSITION SWITCH. PROVIDE 1-GANG OUTLET BOX. PROVIDE 3/4" EMPTY CONDUIT WITH PULLWIRE FROM OUTLET BOX TO ABOVE LAY-IN TILE CEILING.
- C E — CEILING MOUNTED CCTV CAMERA. PROVIDE 1-GANG OUTLET BOX. PROVIDE 3/4" EMPTY CONDUIT WITH PULLWIRE FROM OUTLET BOX TO ABOVE LAY-IN TILE CEILING. SUBSCRIPT "E", WHEN USED, INDICATES EXISTING ACCESS CONTROL SYSTEM CARD READER REUSED.
- REX — REQUEST TO EXIT DEVICE. PROVIDE 1-GANG OUTLET BOX. PROVIDE 3/4" EMPTY CONDUIT WITH PULLWIRE FROM OUTLET BOX TO ABOVE LAY-IN TILE CEILING.

INTERCOM SYSTEM:

- S — CEILING MOUNTED SPEAKER.
- HS — WALL MOUNTED SPEAKER.
- SV — SPEAKER VOLUME CONTROL STATION.
- AP — AIPHONE AUDIO / VIDEO INTERCOM DEVICE. PROVIDE 1-GANG OUTLET BOX INSTALLED FLUSH IN WALL. PROVIDE 3/4" EMPTY CONDUIT WITH PULLWIRE FROM OUTLET BOX TO ABOVE LAY-IN TILE CEILING.

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ELECTRICAL LEGEND & ABBREVIATIONS

JOB NUMBER 2312

E0.01

GENERAL DEMOLITION NOTES:

1. DISCONNECT AND REMOVE ALL ELECTRICAL MATERIAL, EQUIPMENT AND ELECTRICAL CONNECTIONS TO HVAC UNITS SHOWN ON ELECTRICAL DEMOLITION DRAWINGS, U.O.N.

2. PROVIDE ALL ELECTRICAL DEMOLITION WORK NECESSARY TO INSTALL NEW WORK. CONTRACTOR SHALL REROUTE AND RECONNECT ANY CIRCUIT THAT WILL REMAIN IN USE BUT INTERFERES WITH NEW CONSTRUCTION.

3. MAINTAIN CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN OR PORTIONS THEREOF AFFECTED BY NEW WORK.

4. DURING POWER OUTAGE TO WHOLE BUILDING VIA MAIN DISTRIBUTION PANELBOARD REPLACEMENT, A TEMPORARY GENERATOR SHALL BE PROVIDED TO SUPPORT THE EXISTING FIRE ALARM SYSTEM, SECURITY SYSTEMS AND COX DATA/TELEPHONE EQUIPMENT. COORDINATE IN ADVANCE WITH NNPS PLANT SERVICES/ELECTRIC SHOP AND NNPS TECHNOLOGY.

5. BEFORE BEGINNING ANY WORK, FIELD VERIFY THE WORKING CONDITION OF ALL AUXILIARY SYSTEM EQUIPMENT/DEVICES (WIRELESS ACCESS POINTS, PROJECTORS, SMOKE DETECTORS, MOTION DETECTORS, FIRE ALARM NOTIFICATION DEVICES, PHONES, PRINTERS, COMPUTERS, MONITORS, KEYBOARDS, ETC.) SCHEDULED FOR REMOVAL. SCHEDULE WITH WILLIAM CHAMBERS WITH NNPS FOR TESTING AND WALK-THROUGH. NOTIFY THE OWNER OF ANY DEFECTIVE EQUIPMENT. AFTER REINSTALLATION OF AUXILIARY SYSTEMS EQUIPMENT/DEVICES SAVED DURING DEMOLITION IS COMPLETE, RE-VERIFY THE WORKING CONDITION OF EACH. REPLACE ALL EQUIPMENT/DEVICES FOUND DEFECTIVE AFTER REINSTALLATION WHICH WAS WORKING PRIOR TO REMOVAL WITH NEW EQUIPMENT/DEVICES TO MATCH EXISTING AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL REQUIRE A WALK THROUGH WITH NNPS TECH STAFF TO ENSURE A FULL WORKING SYSTEM PRIOR TO REMOVAL.

6. DURING REMOVAL OF THE EXISTING LAY-IN CEILING PANELS, SUPPORT ALL EXISTING AUXILIARY SYSTEMS CABLES (DATA, TELEPHONE, CCTV, FIRE ALARM, MOTION DETECTORS, CATV, ETC.) ORIGINATING FROM MDF OR IDF EQUIPMENT FROM EXISTING STRUCTURE ABOVE EXISTING CEILING. ADJUST ROUTING OF THESE CABLE TO ACCOMMODATE THE INSTALLATION OF NEW HVAC SYSTEM EQUIPMENT AND DUCTWORK. RE-VERIFY THE WORKING CONDITION OF THESE CABLES AND REPLACE ALL CABLES FOUND DEFECTIVE AFTER REINSTALLATION, WHICH WERE WORKING PRIOR TO REMOVAL WITH CABLES TO MATCH EXISTING AT NO ADDITIONAL COST TO OWNER.

7. CONTRACTOR SHALL BE RESPONSIBLE FOR MOVING, REROUTING OR SECURING ALL AUXILIARY SYSTEMS CABLES DURING CONSTRUCTION IF ANY CEILINGS ARE TO BE REMOVED. IF ANY WIRING HAS TO BE DISCONNECTED TO BE REROUTED, THE CONTRACTOR SHALL COORDINATE WITH NNPS.

8. PRIOR TO THE START OF CONSTRUCTION, THE ELECTRICAL SUB-CONTRACTOR SHALL VERIFY THE OPERATION OF ALL OCCUPANCY SENSORS SHOWN TO BE REMOVED AND REINSTALLED. NOTIFY THE ENGINEER IF ANY OCCUPANCY SENSORS ARE NOT IN PROPER WORKING CONDITION.

9. ALL AUXILIARY DEVICES SHALL BE BASED AND SUSPENDED ABOVE CEILING PRIOR TO CEILING REMOVAL ANY DEVICES NOT EFFECTED BY CONSTRUCTION SHALL BE PROTECTED FROM DUST AND DEBRIS.

GENERAL FIRE ALARM NOTES:

1. ALL FIRE ALARM WORK, NEW, REMOVAL, AND REINSTALLATION OF EXISTING (WIRING DEVICES AND CONNECTING DEVICES) SHALL BE PERFORMED BY CERTIFIED BOSCH / RADIONICS INSTALLER. DOCUMENTATION OF CERTIFICATION BY COMPANY AND INSTALLER SHALL BE PROVIDED.

2. NNPS TECHNOLOGY STAFF WILL PROVIDE ADDRESSING AND VERBAL GUIDANCE ON THE ALARM CONNECTIVITY. IF QUESTIONS COME UP DURING THE PROJECT CONTACT NNPS TECHNOLOGY.

3. NNPS TECHNOLOGY STAFF WILL PROVIDE THE FIRE ALARM PANEL PROGRAMMING.

4. PRIOR TO THE PROJECT STARTING GENERAL CONTRACTOR FOREMAN AND ASSISTANT FOREMAN NAMES AND TELEPHONE NUMBERS SHOULD BE PROVIDED TO NNPS TECHNOLOGY SO THAT ALARM CODES CAN BE CREATED AND THE ABILITY OF PLACING THE ALARM SYSTEMS ON TEST

5. PRIOR TO ANY DISTURBANCE OF THE ALARM SYSTEMS THE SYSTEM(S) SHOULD BE PLACED ON TEST WITH OUR ALARM MONITORING CENTER

6. NO T-TAPPING SHALL BE USED ON THE FIRE ALARM SYSTEM. CONTRACTOR SHALL REQUEST AS-BUILTS FROM OWNER FOR CURRENT CIRCUITRY.

7. IF ANY MODIFICATIONS OR DEVICE REMOVAL/REINSTALLATIONS ARE NEEDED A CITY PERMIT MUST BE PULLED FOR THE FIRE ALARM SYSTEM.

8. PROVIDE FIRE ALARM DEVICES, CABLING AND ACCESSORIES, U.O.N., THAT ARE COMPATIBLE WITH THE EXISTING RADIONICS FIRE ALARM PANEL. ALL NEW FIRE ALARM CABLING SHALL BE RED IN COLOR AND PLENUM RATED. PROVIDE PLENUM RATED TIE WRAPS TO SUPPORT CABLES ABOVE CEILING.

GENERAL NEW WORK NOTES:

1. WHERE INDIVIDUAL 120V HOMERUN CIRCUITS ARE SHOWN ON THE DRAWINGS, THEY MAY BE COMBINED AS FOLLOWS:
   - NO MORE THAN THREE (3) PHASE CONDUCTORS PLUS THREE NEUTRALS AND ONE (1) GROUND PER CONDUIT, EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE.
   - NO TWO OF THE SAME PHASE CONDUCTOR PER CONDUIT.
   - PROVIDE 120V CIRCUIT WITH INDIVIDUAL NEUTRALS PER CIRCUIT. NEUTRALS MAY NOT BE SHARED BETWEEN PHASES.

2. COORDINATE WITH MECHANICAL DRAWINGS FOR EXACT LOCATION OF EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS INCLUDING EXACT POINT OF ELECTRICAL CONNECTION. MAKE ADJUSTMENTS TO NEW AND EXISTING CONDUIT ROUTING, PLACEMENT OF DISCONNECTS AND STARTERS AS REQUIRED.

3. PROVIDE NEW TYPED PANEL INDEXES FOR ALL PANELS WHERE CHANGES BROUGHT ON BY THIS PROJECT OCCUR.

4. IN AREAS WHERE NO OTHER TRADES ARE INVOLVED, THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF EXISTING CEILING TILES AS REQUIRED TO INSTALL NEW CIRCUITRY. REINSTALL EXISTING CEILING TILES AFTER COMPLETION OF WORK. REPLACE ALL CEILING TILES DAMAGED DURING THIS PROJECT WITH NEW TILES TO MATCH EXISTING TO THE SATISFACTION OF THE ARCHITECT AND OWNER.

5. EXERCISE CARE IN REMOVING MATERIAL AND EQUIPMENT DURING DEMOLITION. REPAIR ALL DAMAGE TO EXISTING SURFACES OR EXISTING EQUIPMENT TO REMAIN TO THE SATISFACTION OF THE ARCHITECT AND OWNER AT NO COST TO THE OWNER.

6. ALL MATERIAL REMOVED DURING DEMOLITION (AND NOT CALLED OUT TO BE REINSTALLED) SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE JOB SITE, UNLESS OTHERWISE NOTED. THE OWNER RESERVES THE RIGHT TO SALVAGE ANY OR ALL EXISTING MATERIAL AND/OR EQUIPMENT NOT SCHEDULED TO BE REINSTALLED.

7. VERIFY ALL CIRCUITS SAVED DURING DEMOLITION AS TO WIRE SIZE AND POINT OF ORIGIN.

8. WHERE THE TERM "BRANCH CIRCUITRY" IS USED ON THESE DRAWINGS, IT IS TO BE CONSTRUED TO MEAN CONDUIT AND CONDUCTORS.

9. INSTALL DEVICES SHOWN ON DRAWINGS IN ACCORDANCE WITH MOUNTING HEIGHTS SHOWN IN THE ELECTRICAL LEGEND AND/OR THE PROJECT SPECIFICATIONS.

10. SEAL AROUND ALL EXISTING AND NEW CONDUIT PENETRATIONS THROUGH WALLS WITH FIRE RETARDANT SEALANT THAT MEETS OR EXCEEDS THE FIRE RATING OF THE WALL.ALL OTHER THRU WALL PENETRATIONS SHALL BE GROUTED OR SEALED WITH CAULK. ALL PENETRATIONS SHALL BE CORE DRILLED OR DRILLED WITH PROPER TOOLS. HAMMERS SHALL NOT BE USED TO CREATE PENETRATIONS IN WALLS. REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

11. ALL NEW AUXILIARY SYSTEMS (FIRE ALARM, INTERCOM, DATA, AND ACCESS CONTROL) CABLING INSTALLED ABOVE CEILING WITHOUT CONDUIT SHALL BE PLENUM RATED.

12. SPLICES, KINKS, TWISTS AND DEFECTS OF ANY NATURE WILL NOT BE ACCEPTED BY NNPS TECHNOLOGY STAFF AND THE CONTRACTOR MUST, AT ITS OWN EXPENSE, REPLACE ALL SECTION OF CABLE IDENTIFIED BY NNPS.

13. NNPS TECHNOLOGY STAFF SHOULD BE CONSULTED BY CONTRACTOR FOR CHANGES THAT WILL BE MADE AND FOR GUIDANCE.

14. HARD AND ELECTRONIC COPIES OF AS-BUILT DRAWINGS SHALL BE PROVIDED TO NNPS TECHNOLOGY STAFF THAT SHOWS CABLE PATH, ZONE NUMBER FOR ANY NEW DEVICES,LOCATION OF DEVICES, ETC.

15. PROVIDE BUSHINGS ON ALL STUB-OUTS, CONDUITS AND RACEWAYS.

16. ALL AUXILIARY SYSTEMS CABLES INSTALLED ABOVE CEILINGS SHALL BE INSTALLED IN EXISTING PATHWAYS WHERE AVAILABLE. PROVIDE J-HOOKS 12" ON CENTER IN AREAS WHERE EXISTING PATHWAYS ARE NOT AVAILABLE.

17. ANY MODIFICATION TO THE INTERCOM SYSTEM SHALL BE PERFORMED BY A CERTIFIED BOGEN REPRESENTATIVE.

18. NNPS TECHNOLOGY TO PROVIDE ANY NEW PATCH PANELS AND SWITCHES, IF REQUIRED.

19. NNPS TECHNOLOGY TO PROGRAM ALL NETWORK OUTLETS.

20. COORDINATE WITH NNPS TECHNOLOGY FOR REMOVAL/REINSTALLATION OF 911 PHONE.

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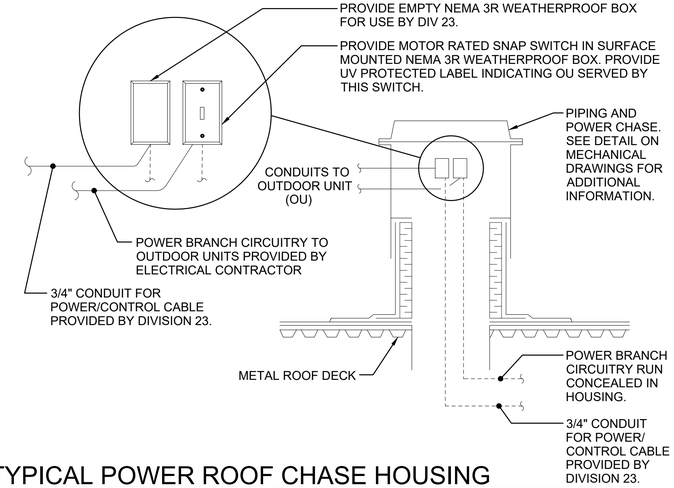
ABBREVIATIONS

A	AMP	IU	INDOOR UNIT
AC	ALTERNATING CURRENT	MDF	MAIN DISTRIBUTION FRAME
ACS	ACCESS CONTROL SYSTEM	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
A.F.F.	ABOVE FINISHED FLOOR	NNPS	NEWPORT NEWS PUBLIC SCHOOLS
AHU	AIR HANDLING UNIT	OU	OUTDOOR UNIT
CIRC. OR CKT.	CIRCUIT	P	POLE OR PUMP
CU	CONDENSING UNIT	SPD	SURGE PROTECTIVE DEVICE
CUH	CABINET UNIT HEATER	TBB	TELEPHONE BACKBOARD
EF	EXHAUST FAN	U.O.N.	UNLESS OTHERWISE NOTED
ELEC.	ELECTRICAL	UV	UNIT VENTILATOR
FACP	FIRE ALARM CONTROL PANEL	V	VOLT
FAPEP	FIRE ALARM POWER EXTENDER PANEL	VAV	VARIABLE AIR VOLUME
FC	FOOTCANDLE	W	WIRE
GFI	GROUND FAULT INTERRUPTER	Y	WYE
GND	GROUND		

THE CONTRACTOR SHALL INCLUDE IN HIS/HER BID, THE HIRING OF THE "SEAM GROUP" TO PROVIDE SHORT CIRCUIT, COORDINATION STUDY, AND ARC FLASH HAZARD ANALYSIS. THE CONTRACTOR SHALL CONTACT JUSTIN SANDERS jsanders@seamgroup.com (1-765-418-7112) AT THE "SEAM GROUP" PRIOR TO PROCURING A CONTRACT FOR THIS PROJECT. THE SHORT CIRCUIT, COORDINATION STUDY, AND ARC FLASH HAZARD ANALYSIS SHALL BE PROVIDED FOR ALL NEW POWER DISTRIBUTION EQUIPMENT, ALL HVAC EQUIPMENT, AND ALL EXISTING POWER DISTRIBUTION EQUIPMENT AFFECTED BY THE SCOPE OF THIS CONTRACT. THE ARC FLASH EQUIPMENT LABELS SHALL BE UV PROTECTED TYPE, FURNISHED BY THE SEAM GROUP, AND INSTALLED ON THE EQUIPMENT BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE SEAM GROUP AND PROVIDE THE REQUIRED DATA (POWER EQUIPMENT SHOP DRAWINGS, FEEDERS INFORMATION [TYPE, LENGTH, AND SIZES], INITIAL AND FINAL POWER COMPANY TRANSFORMER INFORMATION, ETC.) TO THE SEAM GROUP TO PERFORM THE STUDY AND ARC FLASH ANALYSIS. THE STUDY AND ANALYSIS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO SUBMITTING POWER DISTRIBUTION EQUIPMENT SHOP DRAWINGS. THE CONTRACTOR SHALL SUBMIT A HARD COPY ALONG WITH A DIGITAL COPY OF THE FINAL STUDY TO THE OWNER.



TYPICAL POWER ROOF CHASE HOUSING PENETRATION DETAIL

NOT TO SCALE

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12/30/2024
PROFESSIONAL ENGINEER

FEBRUARY 4, 2025

GENERAL NOTES

JOB NUMBER 2312

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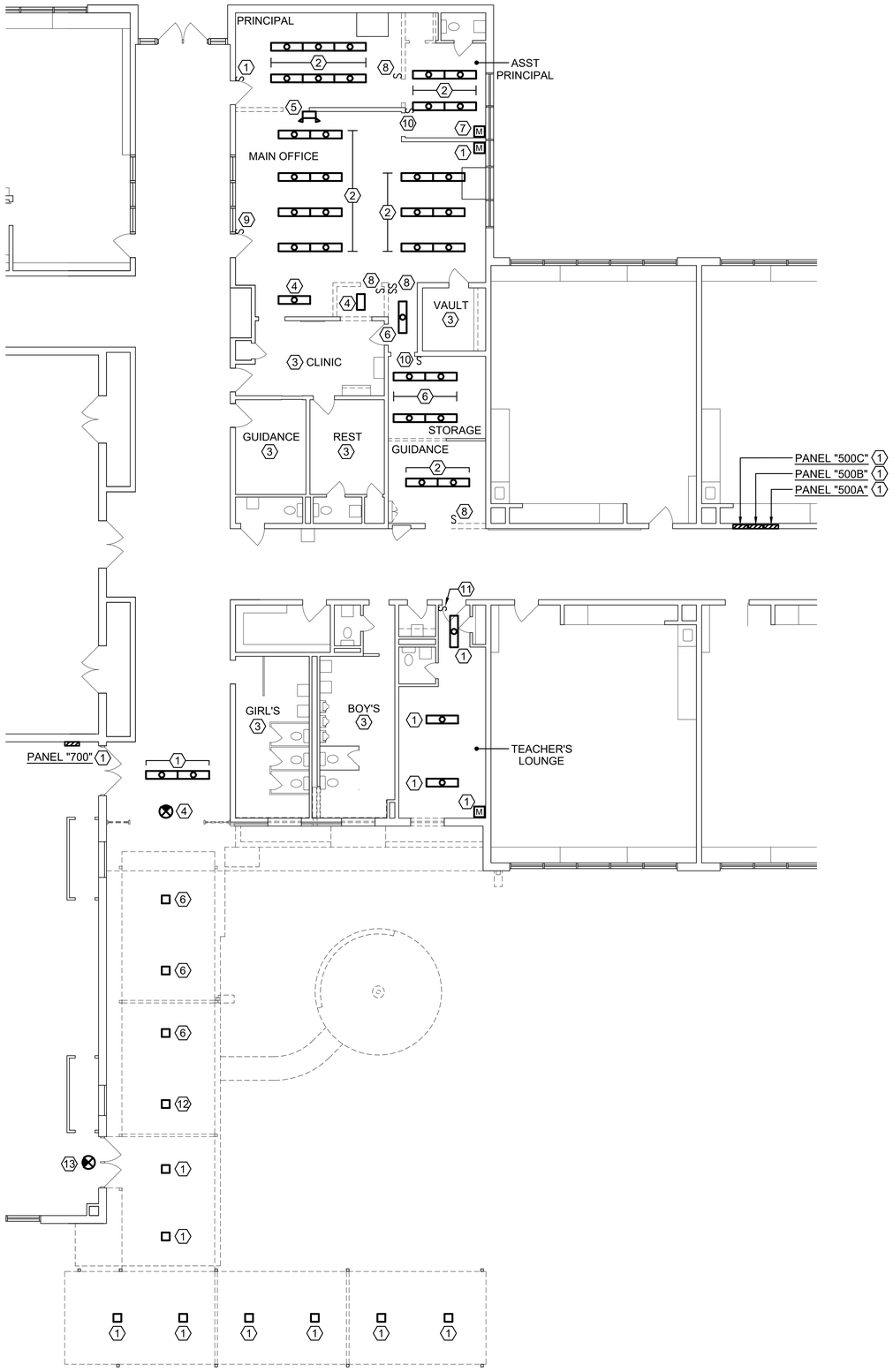


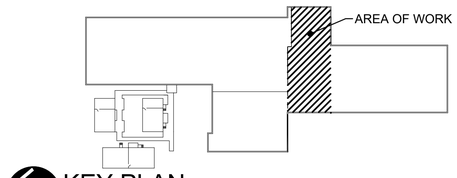
DEMOLITION NOTES: (THIS DRAWING ONLY)

1. EXISTING TO REMAIN.
2. REMOVE LIGHT FIXTURE(S) AND SAVE FOR REUSE, U.O.N. SAVE HOMERUN BRANCH CIRCUITRY INTO SPACE FOR REUSE.
3. LIGHT FIXTURES AND BRANCH CIRCUITRY IN THIS SPACE TO REMAIN.
4. REMOVE LIGHT FIXTURE. REMOVE BRANCH CIRCUITRY BACK TO POINT OF ORIGIN.
5. REMOVE LIGHT FIXTURE AND SAVE FOR REUSE. SAVE BRANCH CIRCUITRY FOR REUSE.
6. REMOVE LIGHT FIXTURE(S), U.O.N., AND TURN OVER CANOPY LIGHTS ONLY TO THE OWNER. MAINTAIN DOWNSTREAM AND UPSTREAM BRANCH CIRCUITRY TO REMAINING LIGHT FIXTURES ON CIRCUIT.
7. REMOVE WALL MOUNTED OCCUPANCY SENSOR AND SAVE FOR REUSE. REMOVE BRANCH CIRCUITRY BACK TO ABOVE CEILING AND SAVE FOR REUSE.
8. REMOVE LIGHT SWITCH, BRANCH CIRCUITRY AND OUTLET BOX.
9. REMOVE LIGHT SWITCH AND BRANCH CIRCUITRY. SAVE OUTLET BOX AND CONDUIT FOR REUSE.
10. REMOVE LIGHT SWITCH AND BRANCH CIRCUITRY. PROVIDE BLANK COVERPLATE ON EXITING OUTLET BOX.
11. REMOVE LIGHT SWITCH. SAVE OUTLET BOX AND CONDUIT FOR REUSE. REMOVE BRANCH CIRCUITRY BACK TO LIGHT FIXTURE TO REMAIN. SAVE HOMERUN BRANCH CIRCUITRY INTO SPACE FOR REUSE.
12. REMOVE LIGHT FIXTURE AND SAVE FOR REUSE. MAINTAIN DOWNSTREAM AND UPSTREAM BRANCH CIRCUITRY TO REMAINING LIGHT FIXTURES ON CIRCUIT.
13. REMOVE EXIT LIGHT AND SAVE FOR REUSE. SAVE BRANCH CIRCUITRY FOR REUSE. MAINTAIN DOWNSTREAM AND UPSTREAM BRANCH CIRCUITRY TO REMAINING LIGHT FIXTURES ON CIRCUIT.

PARTIAL FLOOR PLAN - DEMOLITION - LIGHTING

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

NOTE: EXISTING CONDITIONS ILLUSTRATED HAVE BEEN DETERMINED FROM ORIGINAL CONSTRUCTION DOCUMENTS AND LIMITED NON-INVASIVE FIELD INVESTIGATION. THE CONTRACTOR SHALL INVESTIGATE FIELD CONDITIONS PRIOR TO COMMENCEMENT OF WORK, COORDINATE AND MAKE ADJUSTMENTS AS NECESSARY.



KEY PLAN
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PARTIAL FLOOR PLAN - DEMOLITION - LIGHTING

JOB NUMBER 2312

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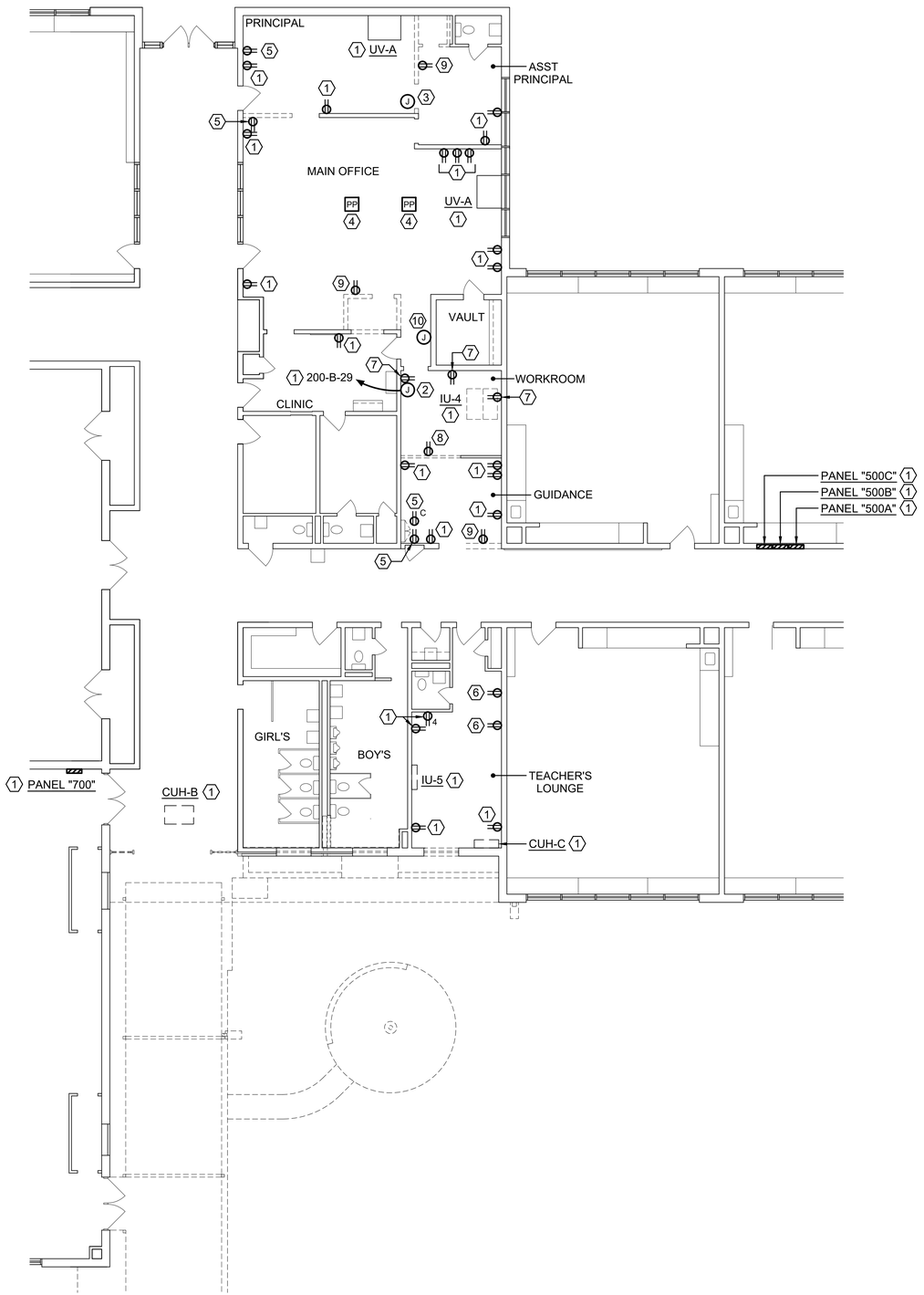


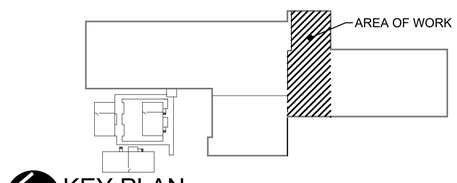
PARTIAL FLOOR PLAN - DEMOLITION - POWER

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

DEMOLITION NOTES: (THIS DRAWING ONLY)

1. EXISTING TO REMAIN.
2. REMOVE WALL MOUNTED JUNCTION BOX. REMOVE BRANCH CIRCUITRY BACK TO ABOVE CEILING AND SAVE FOR REUSE.
3. RELOCATE WALL MOUNTED JUNCTION BOX TO ABOVE CEILING. MAINTAIN EXISTING BRANCH CIRCUITRY FED FROM EXISTING JUNCTION BOX.
4. REMOVE POWER POLE. REMOVE BRANCH CIRCUITRY BACK TO POINT OF ORIGIN.
5. REMOVE RECEPTACLE. REMOVE BRANCH CIRCUITRY BACK TO LAST RECEPTACLE TO REMAIN ON CIRCUIT.
6. REMOVE RECEPTACLE. SAVE BRANCH CIRCUITRY FOR REUSE.
7. REMOVE RECEPTACLE. REMOVE BRANCH CIRCUITRY BACK TO EXISTING WALL MOUNTED JUNCTION BOX TO REMAIN.
8. REMOVE RECEPTACLE. REMOVE BRANCH CIRCUITRY BACK TO EXISTING WALL MOUNTED JUNCTION BOX SERVING THE COPIER.
9. REMOVE RECEPTACLE. MAINTAIN DOWNSTREAM AND UPSTREAM BRANCH CIRCUITRY TO REMAINING RECEPTACLES ON CIRCUIT.
10. REMOVE JUNCTION BOX. REMOVE BRANCH CIRCUITRY BACK TO EXISTING WALL MOUNTED JUNCTION BOX TO REMAIN LOCATED IN EXISTING WORKROOM.

NOTE: EXISTING CONDITIONS ILLUSTRATED HAVE BEEN DETERMINED FROM ORIGINAL CONSTRUCTION DOCUMENTS AND LIMITED NON-INVASIVE FIELD INVESTIGATION. THE CONTRACTOR SHALL INVESTIGATE FIELD CONDITIONS PRIOR TO COMMENCEMENT OF WORK, COORDINATE AND MAKE ADJUSTMENTS AS NECESSARY.



KEY PLAN
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PARTIAL FLOOR PLAN - DEMOLITION - POWER

JOB NUMBER 2312

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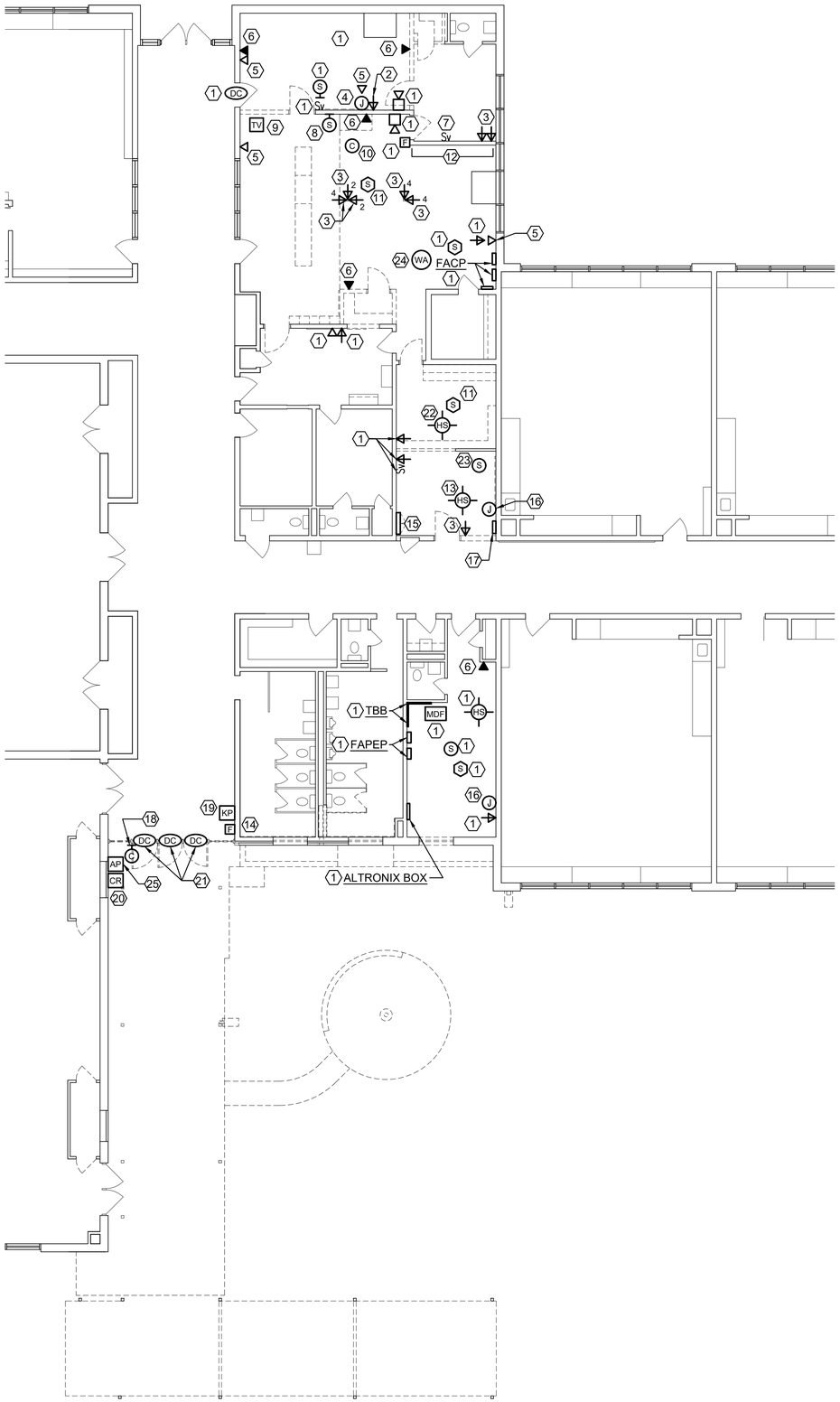


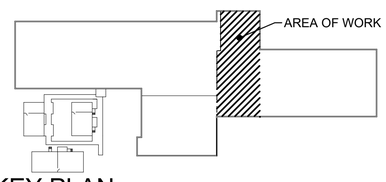
PARTIAL FLOOR PLAN - DEMOLITION - AUXILIARY SYSTEMS

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

DEMOLITION NOTES: (THIS DRAWING ONLY)

1. EXISTING TO REMAIN.
2. REMOVE DATA OUTLET AND RACEWAY. REMOVE CABLING TO ABOVE CEILING AND SAVE FOR REUSE.
3. REMOVE DATA OUTLET, CABLING, CONDUIT AND OUTLET BOX.
4. REMOVE COMMUNICATIONS DEVICE. REMOVE CABLING.
5. REMOVE PHONE OUTLET, CABLING, CONDUIT AND OUTLET BOX.
6. REMOVE COAXIAL OUTLET, CABLING, CONDUIT AND OUTLET BOX.
7. REMOVE WALL MOUNTED SPEAKER VOLUME CONTROL SWITCH. REMOVE CABLING BACK TO POINT OF ORIGIN.
8. REMOVE WALL SPEAKER AND SAVE FOR REUSE. SAVE CABLING FOR REUSE.
9. DISCONNECT AND REMOVE FROM SITE WALL MOUNTED TELEVISION, INCLUDING WALL MOUNTED TELEVISION BRACKETS, POWER AND AV PATCH CABLES AND POWER AND AV OUTLET BOXES.
10. REMOVE CEILING MOUNTED CCTV CAMERA AND SAVE FOR REUSE. REMOVE CABLING BACK TO POINT OF ORIGIN.
11. TEMPORARILY SUPPORT AND BAG CEILING MOUNTED SMOKE DETECTOR FROM EXISTING ROOF STRUCTURE TO ACCOMMODATE THE REMOVAL OF EXISTING CEILING AND THE INSTALLATION OF THE NEW CEILING. AFTER INSTALLATION OF NEW CEILING, REINSTALL EXISTING CEILING MOUNTED SMOKE DETECTOR SAVED DURING DEMOLITION IN NEW CEILING. COORDINATE EXACT LOCATIONS WITH OWNER.
12. ALL PANELS, RACKS, CONTROLS, OUTLETS AND ANY OTHER COMMUNICATION DEVICES LOCATED ON THIS WALL ARE EXISTING TO REMAIN.
13. REMOVE CEILING MOUNTED FIRE ALARM DEVICE AND SAVE FOR REUSE. REMOVE FIRE ALARM CABLING TO ABOVE CEILING AND SAVE FOR REUSE.
14. REMOVE FIRE ALARM MANUAL PULL STATION AND SAVE FOR REUSE. REMOVE FIRE ALARM CABLING.
15. EXISTING WALL MOUNTED COMMUNICATION BOX TO REMAIN.
16. REMOVE OUTLET WITH BLANK COVERPLATE AND RACEWAY COMPLETE.
17. REMOVE WALL MOUNTED COAXIAL BOX. REMOVE ALL CABLING. REMOVE BOX AND CONDUIT TO FLOOR. CUT CONDUIT FLUSH WITH FLOOR AND TOP WITH GROUT.
18. REMOVE CCTV CAMERA AND SAVE FOR REUSE. REMOVE CABLING BACK TO POINT OF ORIGIN.
19. REMOVE INTRUSION DETECTION SYSTEM KEY PAD AND SAVE FOR REUSE. REMOVE CABLING TO ABOVE CEILING AND SAVE FOR REUSE. COORDINATE WORK WITH OWNER.
20. REMOVE ACS CARD READER AND SAVE FOR REUSE. REMOVE CABLING TO INSIDE BUILDING AND SAVE FOR REUSE.
21. REMOVE DOOR CONTACT. REMOVE BRANCH CIRCUITRY BACK TO POINT OF ORIGIN.
22. REMOVE CEILING MOUNTED FIRE ALARM DEVICE. REMOVE FIRE ALARM CABLING BACK TO POINT OF ORIGIN.
23. REMOVE CEILING MOUNTED SPEAKER AND SAVE FOR REUSE. SAVE CABLING FOR REUSE.
24. REMOVE CEILING MOUNTED WIRELESS ACCESS DEVICE AND SAVE FOR REUSE. SAVE CABLING FOR REUSE.
25. REMOVE AIPHONE DEVICE. REMOVE CABLING TO INSIDE BUILDING AND SAVE FOR REUSE.

NOTE: EXISTING CONDITIONS ILLUSTRATED HAVE BEEN DETERMINED FROM ORIGINAL CONSTRUCTION DOCUMENTS AND LIMITED NON-INVASIVE FIELD INVESTIGATION. THE CONTRACTOR SHALL INVESTIGATE FIELD CONDITIONS PRIOR TO COMMENCEMENT OF WORK, COORDINATE AND MAKE ADJUSTMENTS AS NECESSARY.



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SECURITY VESTIBULE & OFFICE ADDITION AND ALTERATIONS FOR YATES ELEMENTARY SCHOOL

73 MAXWELL LN, NEWPORT NEWS
VA 23606

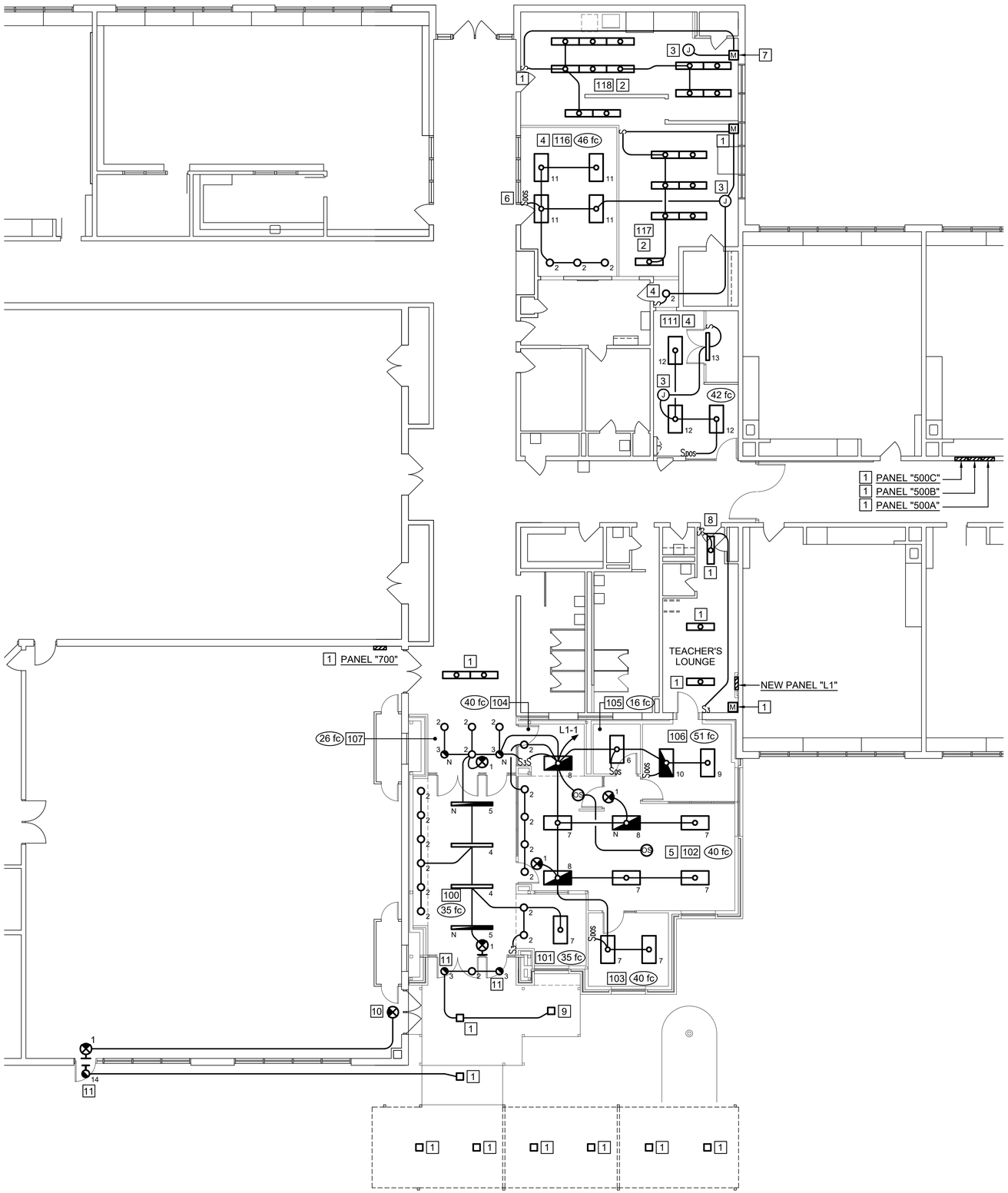
COMMONWEALTH OF VIRGINIA
KENZIE CAMBAR
Lic. No.049752
12/30/2024
PROFESSIONAL ENGINEER

FEBRUARY 4, 2025

PARTIAL FLOOR PLAN - DEMOLITION - AUXILIARY SYSTEMS

JOB NUMBER 2312

ED3.01



PARTIAL FLOOR PLAN - NEW WORK - LIGHTING

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

NEW WORK NOTES: (THIS DRAWING ONLY)

1. EXISTING REUSED.
2. INSTALL EXISTING LIGHT FIXTURE(S) SAVED DURING DEMOLITION SURFACE MOUNTED ON EXISTING CEILING.
3. PROVIDE JUNCTION BOX ON END OF EXISTING HOMERUN BRANCH CIRCUITRY SAVED DURING DEMOLITION AND EXTEND TO LIGHT FIXTURES AS INDICATED.
4. INSTALL NEW LIGHT FIXTURES IN THIS SPACE IN NEW CEILING.
5. INTERLOCK ALL OCCUPANCY SENSORS IN THIS SPACE SUCH THAT THE ACTIVATION OF ANY SENSOR WILL ENERGIZE THE LIGHTING CIRCUIT IN THIS SPACE.
6. INSTALL NEW LIGHT SWITCH IN EXISTING OUTLET BOX SAVED DURING DEMOLITION.
7. INSTALL EXISTING WALL MOUNTED OCCUPANCY SENSOR ON WALL IN NEW LOCATION AND CONNECT TO EXISTING BRANCH CIRCUITRY SAVED DURING DEMOLITION.
8. INSTALL NEW LIGHT SWITCH IN EXISTING OUTLET BOX SAVED DURING DEMOLITION. RECONNECT NEW LIGHT SWITCH TO EXISTING HOMERUN BRANCH CIRCUITRY INTO SPACE AND EXTEND TO NEW THREE-WAY SWITCH AND LIGHT FIXTURES AS INDICATED.
9. INSTALL EXISTING LIGHT FIXTURE SAVED DURING DEMOLITION SURFACE MOUNTED ON NEW CANOPY. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER.
10. AT THE END OF CONSTRUCTION REINSTALL EXISTING EXIT LIGHT SAVED DURING DEMOLITION AND CONNECT TO EXISTING BRANCH CIRCUITRY SAVED DURING DEMOLITION.
11. CONNECT EMERGENCY BATTERY BACKUP IN THIS LIGHT FIXTURE TO AN UNSWITCHED PHASE CONDUCTOR, AHEAD OF LIGHTING CONTACTOR CIRCUIT SERVING CANOPY LIGHTS.

LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER'S CATALOG No.	VOLT	LUMENS	WATTAGE	MOUNTING	REMARKS
1	LITHONIA LE-S-1-R-EL-N-SD	UNV	LED	5W	CEILING/WALL	SEE NOTE 1
2	LIGHTOLIER 6RN-P6RDL10935MCD21OU	UNV	1000	10W	RECESSED	
3	LIGHTOLIER 6RNEM6-P6RDL10935MCD21OU	UNV	1000	10W	RECESSED	
4	LEDALITE 2906L93546QQ06DE1NNNW	UNV	4300/4ft	43W	PENDANT	SEE NOTE 2
5	LEDALITE 2906L93546QQ06DE1BNNW	UNV	4300/4ft	43W	PENDANT	SEE NOTE 2
6	DAY-BRITE 2FGXG20L835-4-FS-UNV-DIM	UNV	2000	14W	RECESSED	
7	DAY-BRITE 2FGXG54L835-4-FS-UNV-DIM	UNV	5400	41W	RECESSED	
8	DAY-BRITE 2FGXG54L835-4-FS-UNV-DIM-BSL10LST	UNV	5400	41W	RECESSED	
9	DAY-BRITE 2FGXG74L835-4-FS-UNV-DIM	UNV	7400	56W	RECESSED	
10	DAY-BRITE 2FGXG74L835-4-FS-UNV-DIM-BSL10LST	UNV	7400	56W	RECESSED	
11	TGS LIGHTING CT-24-40-C-U	UNV	4400	40W	RECESSED	
12	TSG LIGHTING CT-24-50-C-U	UNV	5500	50W	RECESSED	
13	DAY-BRITE FSS430L835-UNV-EMLED	UNV	3000	22W	WALL	SEE NOTE 3
14	GARDCO 121-16L-700-NW-G4-2-EBPC-120	120	4000	38W	WALL	SEE NOTE 3

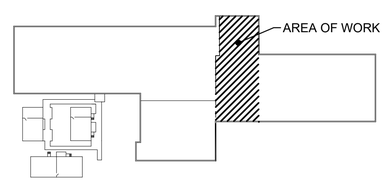
LIGHT FIXTURE SCHEDULE NOTES:

GENERAL:

1. MATCH MOUNTING HARDWARE AND FRAME WITH CEILING TYPE OR CONSTRUCTION IN WHICH FIXTURE IS TO BE INSTALLED. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS AND FINISH SCHEDULES
2. SEE SPECIFICATION SECTION 265100 FOR ADDITIONAL LED INFORMATION.
3. COORDINATE ALL DIMMER SWITCHES WITH LIGHT FIXTURES PROVIDED TO ENSURE COMPATIBLY.

SPECIFIC:

1. COORDINATE EXACT LOCATION WITH OWNER. SHADING INDICATES NUMBER OF FACES LIT.
2. PROVIDE PENDANT LENGTH AS REQUIRED TO INSTALL LIGHT FIXTURE +12'-0" A.F.F. TO BOTTOM OF FIXTURE.
3. INSTALL LIGHT FIXTURE ABOVE DOOR. COORDINATE EXACT LOCATION WITH OWNER.



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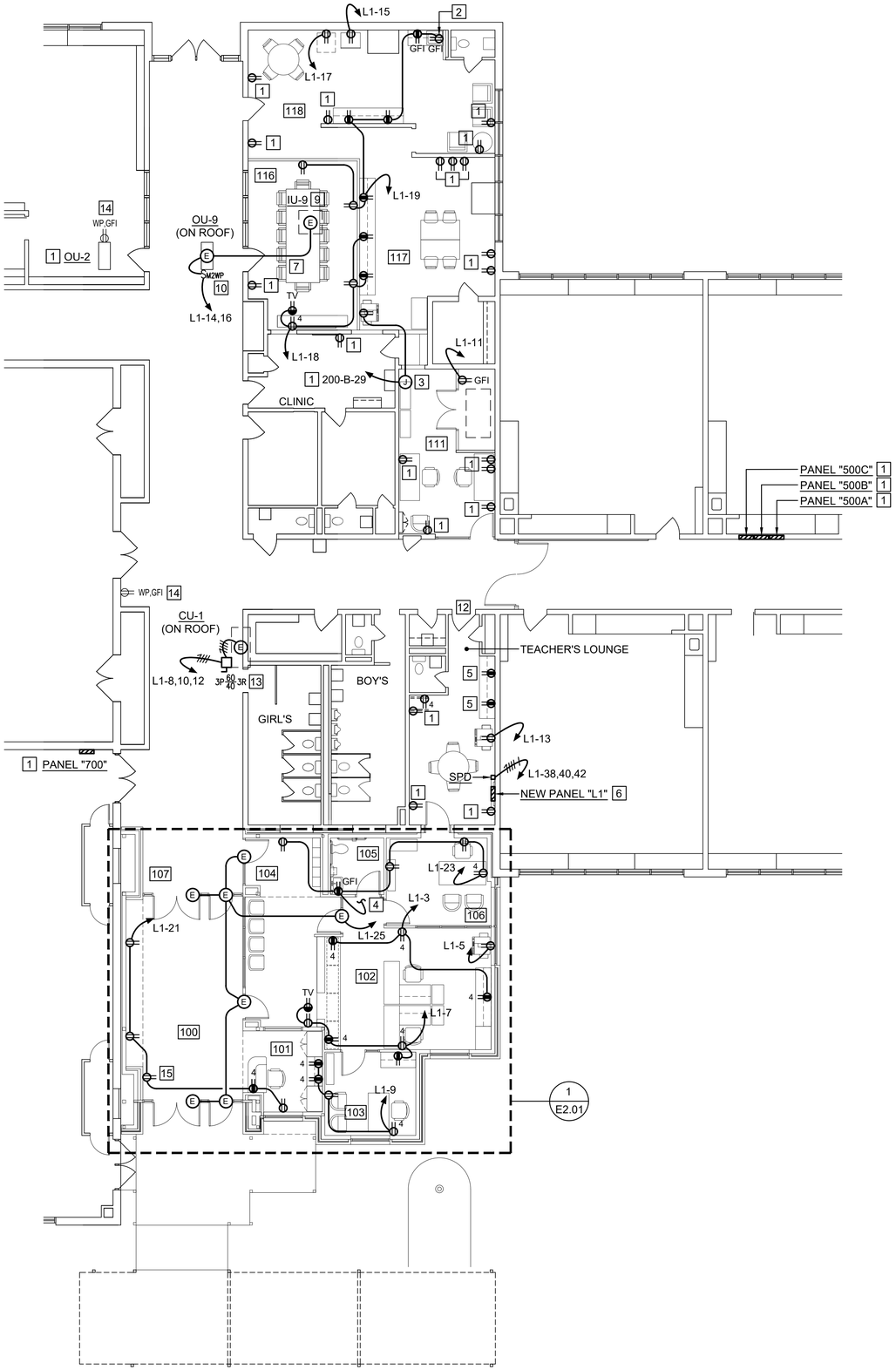
PARTIAL FLOOR PLAN - NEW WORK - LIGHTING

JOB NUMBER 2312

E1.01



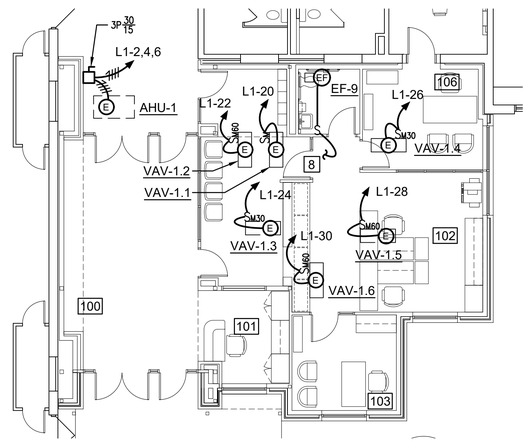
PARTIAL FLOOR PLAN - NEW WORK - POWER

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

NEW WORK NOTES: (THIS DRAWING ONLY)

1. EXISTING REUSED.
2. INSTALL RECEPTACLE UNDER COUNTER. COORDINATE EXACT LOCATION WITH SUPPLIER OF EQUIPMENT.
3. PROVIDE JUNCTION BOX ON END OF EXISTING HOMERUN BRANCH CIRCUITRY SAVED DURING DEMOLITION AND PROVIDE BRANCH CIRCUITRY FROM JUNCTION BOX TO NEW RECEPTACLE.
4. TO WALL SWITCH IN RESTROOM. SEE "PARTIAL FLOOR PLAN - NEW WORK - HVAC POWER" ON THIS DRAWING FOR CONTINUATION.
5. REUSE AND EXTEND EXISTING BRANCH CIRCUITRY SAVED DURING DEMOLITION AND CONNECT TO NEW RECEPTACLE.
6. PROVIDE NEW PANELBOARD. SEE "PARTIAL POWER RISER DIAGRAM" AND PANELBOARD SCHEDULE ON DRAWING E2.02 FOR ADDITIONAL INFORMATION.
7. PROVIDE 1/2" CONDUIT WITH PULLWIRE BETWEEN "OU-9" AND "IU-9". FOLLOW PATH OF REFRIGERANT PIPING. EQUIPMENT WIRING PROVIDED BY SUPPLIER OF EQUIPMENT, IN ACCORDANCE WITH MECHANICAL SPECIFICATIONS. CONDUIT AND ELECTRICAL CONNECTIONS TO EQUIPMENT PROVIDED BY DIVISION 26 SUB-CONTRACTOR. COORDINATE REQUIREMENTS WITH THE MECHANICAL CONTRACTOR.
8. TO RECEPTACLE IN RESTROOM. SEE "PARTIAL FLOOR PLAN - NEW WORK - POWER" ON THIS DRAWING FOR CONTINUATION.
9. PROVIDE ELECTRICAL CONNECTION TO "IU" VIA 3-POLE DISCONNECT SWITCH PROVIDED WITH "IU".
10. INSTALL MOTOR RATED SWITCH ON REFRIGERANT PIPE CHASE HOUSING. SEE "TYPICAL PIPING AND POWER ROOF CHASE HOUSING PENETRATION DETAIL" ON DRAWING E0.02 FOR ADDITIONAL INFORMATION.
11. INSTALL DISCONNECT SWITCH / RECEPTACLE ON NON-REMOVABLE PANEL ON MECHANICAL EQUIPMENT.
12. PROVIDE PHENOLIC LABEL THAT SHALL READ "ELECTRICAL EQUIPMENT" ON DOOR.
13. SEE "ROOF MOUNTED POWER PEDESTAL POST DETAIL" ON DRAWING E2.02 FOR ADDITIONAL INFORMATION.
14. EXISTING ROOF MOUNTED RECEPTACLE TO REMAIN. SHOWN FOR REFERENCE PURPOSES ONLY.

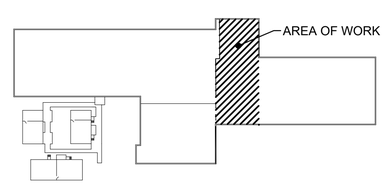
    COORDINATE EXACT LOCATION OF RECEPTACLE WITH NNPS TECHNOLOGY PRIOR TO ROUGH-IN.



PARTIAL FLOOR PLAN - NEW WORK - HVAC POWER

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

1 / E2.01



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FEBRUARY 4, 2025

PARTIAL FLOOR PLAN - NEW WORK - POWER

JOB NUMBER 2312

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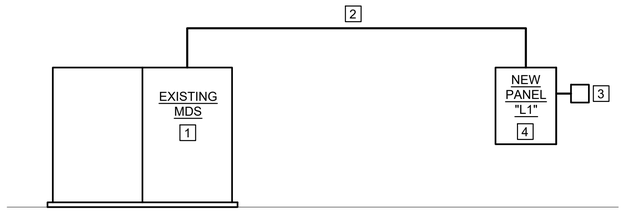


PARTIAL POWER RISER DIAGRAM - NEW WORK

NOT TO SCALE

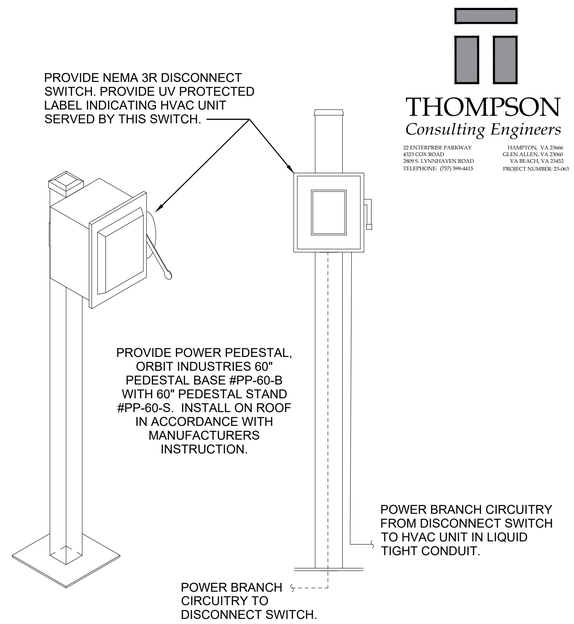
POWER RISER DIAGRAM NOTES:

1. REMOVE EXISTING PROVISION KIT, LOCATED BELOW CIRCUIT BREAKER FOR PANEL "500B", AND TURN OVER TO OWNER. PROVIDE NEW 200A-3P CIRCUIT BREAKER RETRO-FIT KIT, CATALOG NUMBER "KPRL4HFD3200T", AND BLANK COVERS AS REQUIRED, IN EXISTING 'MDS'. CONNECT BRANCH CIRCUITRY FROM NOTE 2 TO NEW CIRCUIT BREAKER. SEE THIS DRAWING FOR LOCATION OF EXISTING 'MDS'. EXISTING 'MDS' IS A 208Y/120V, 2000A, 3-PHASE, 4-WIRE, EATON 'POW-R-LINE' TYPE SWITCHBOARD.
2. PROVIDE 3 #3/0, 1 #3/0 NEUTRAL AND 1 #6 GROUND IN 2-1/2" CONDUIT.
3. PROVIDE SPD IN ACCORDANCE WITH SPECIFICATION SECTION 264313. PROVIDE 4 #10 AND 1 #10 GROUND IN 1/2" CONDUIT. TERMINATE IN 30A-3P CIRCUIT BREAKER.
4. PROVIDE NEW PANELBOARD IN ACCORDANCE WITH PANELBOARD SCHEDULE ON THIS DRAWING AND SPECIFICATION SECTION 262416.

NEW PANEL "L1" 200AMP 208Y/120V, 3Ø, 4W, M.C.B., SURFACE MTD.

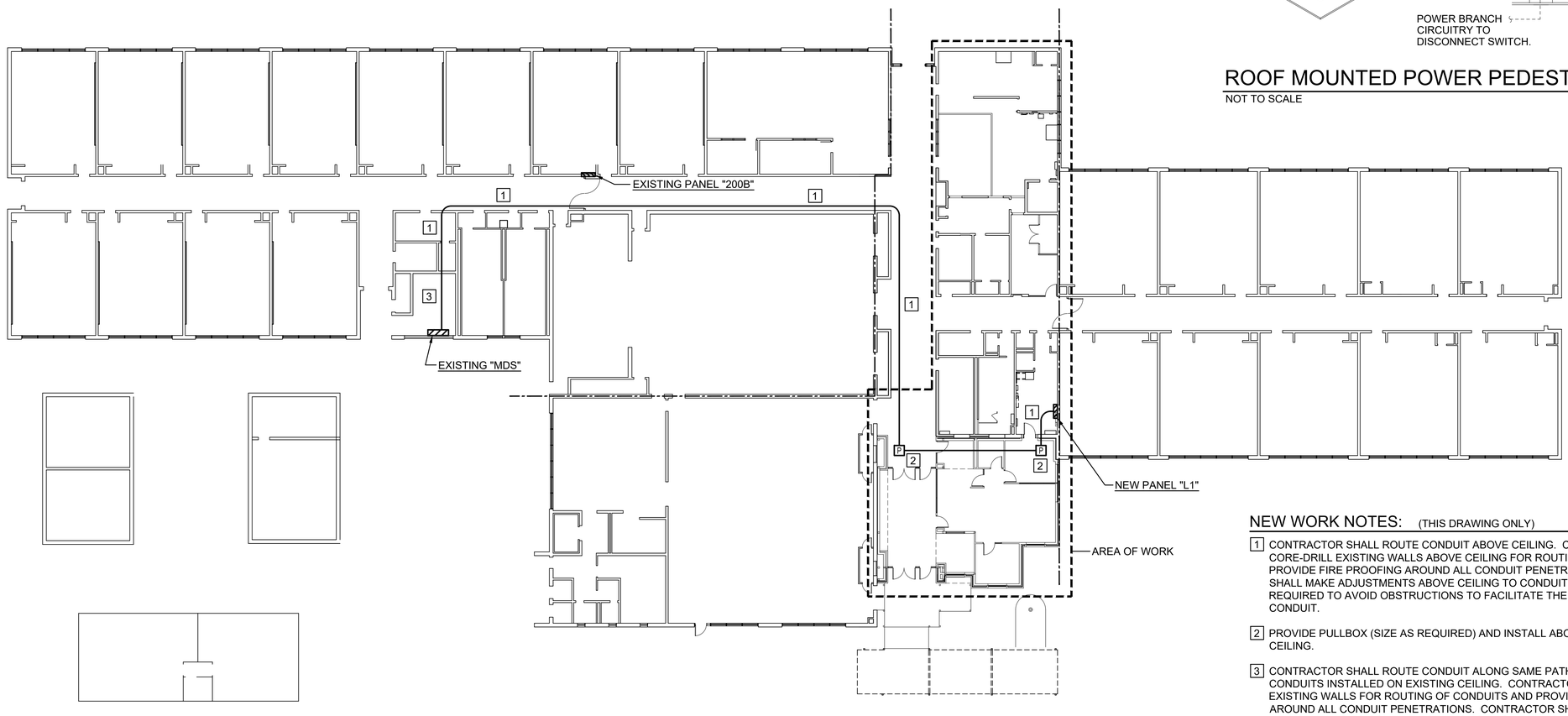
LOAD SERVED	LOAD (AMPS) A	B	C	CKT.BKR. KAIC	TRIP	WIRE SIZE	CKT. NO.	PHASE A	B	C	CKT. NO.	WIRE SIZE	CKT.BKR. KAIC	TRIP	LOAD (AMPS) A	B	C	LOAD SERVED
LIGHTS	7.5			22	20	12	1				2	12	22	15	2			AHU-1
RECEPTACLES		9			20	12	3				4					2		
COPIER			10		20	12	5				6						2	
RECEPTACLES	10.5				20	12	7				8	8		40	21			CU-1
RECEPTACLES		10.5			20	12	9				10					21		
ROOF RECEPTACLE			1.5		20	12	11				12						21	
COPIER	10				20	12	13				14	12		15	12			OU-9 / IU-9
REFRIGERATOR (SEE NOTE 1)		10			20	12	15				16					12		
VENDING (SEE NOTE 1)			10		20	12	17				18	12		20			10.5	RECEPTACLES
RECEPTACLES	10.5				20	12	19				20	12		20	12.5			VAV-1.1
RECEPTACLES		9			20	12	21				22	8		45		34		VAV-1.2
RECEPTACLES			9		20	12	23				24	10		30			25	VAV-1.3
DOORS/FIRE CONTACTOR	10				20	12	25				26	10		25	17			VAV-1.4
SPACE		-			-	-	27				28	8		45		34		VAV-1.5
SPACE			-		-	-	29				30	8		35			25	VAV-1.6
SPACE	-				-	-	31				32	-		-	-			SPACE
SPACE		-			-	-	33				34	-		-		-		SPACE
SPACE			-		-	-	35				36	-		-			-	SPACE
SPACE	-				-	-	37				38	10		30	1			SPD
SPACE		-			-	-	39				40					1		
SPACE			-		-	-	41				42						1	

NOTES :
1. PROVIDE WITH GFI TYPE CIRCUIT BREAKERS.



ROOF MOUNTED POWER PEDESTAL POST DETAIL

NOT TO SCALE



NEW WORK NOTES: (THIS DRAWING ONLY)

1. CONTRACTOR SHALL ROUTE CONDUIT ABOVE CEILING. CONTRACTOR SHALL CORE-DRILL EXISTING WALLS ABOVE CEILING FOR ROUTING OF CONDUITS AND PROVIDE FIRE PROOFING AROUND ALL CONDUIT PENETRATIONS. CONTRACTOR SHALL MAKE ADJUSTMENTS ABOVE CEILING TO CONDUIT ROUTING AS REQUIRED TO AVOID OBSTRUCTIONS TO FACILITATE THE INSTALLATION OF NEW CONDUIT.
2. PROVIDE PULLBOX (SIZE AS REQUIRED) AND INSTALL ABOVE LAY-IN TILE CEILING.
3. CONTRACTOR SHALL ROUTE CONDUIT ALONG SAME PATH AS EXISTING CONDUITS INSTALLED ON EXISTING CEILING. CONTRACTOR SHALL CORE-DRILL EXISTING WALLS FOR ROUTING OF CONDUITS AND PROVIDE FIRE PROOFING AROUND ALL CONDUIT PENETRATIONS. CONTRACTOR SHALL MAKE ADJUSTMENTS TO CONDUIT ROUTING AS REQUIRED TO AVOID OBSTRUCTIONS TO FACILITATE THE INSTALLATION OF NEW CONDUIT.

OVERALL FLOOR PLAN - POWER

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

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FEBRUARY 4, 2025

OVERALL FLOOR PLAN & PARTIAL POWER RISER DIAGRAM - NEW WORK

JOB NUMBER 2312

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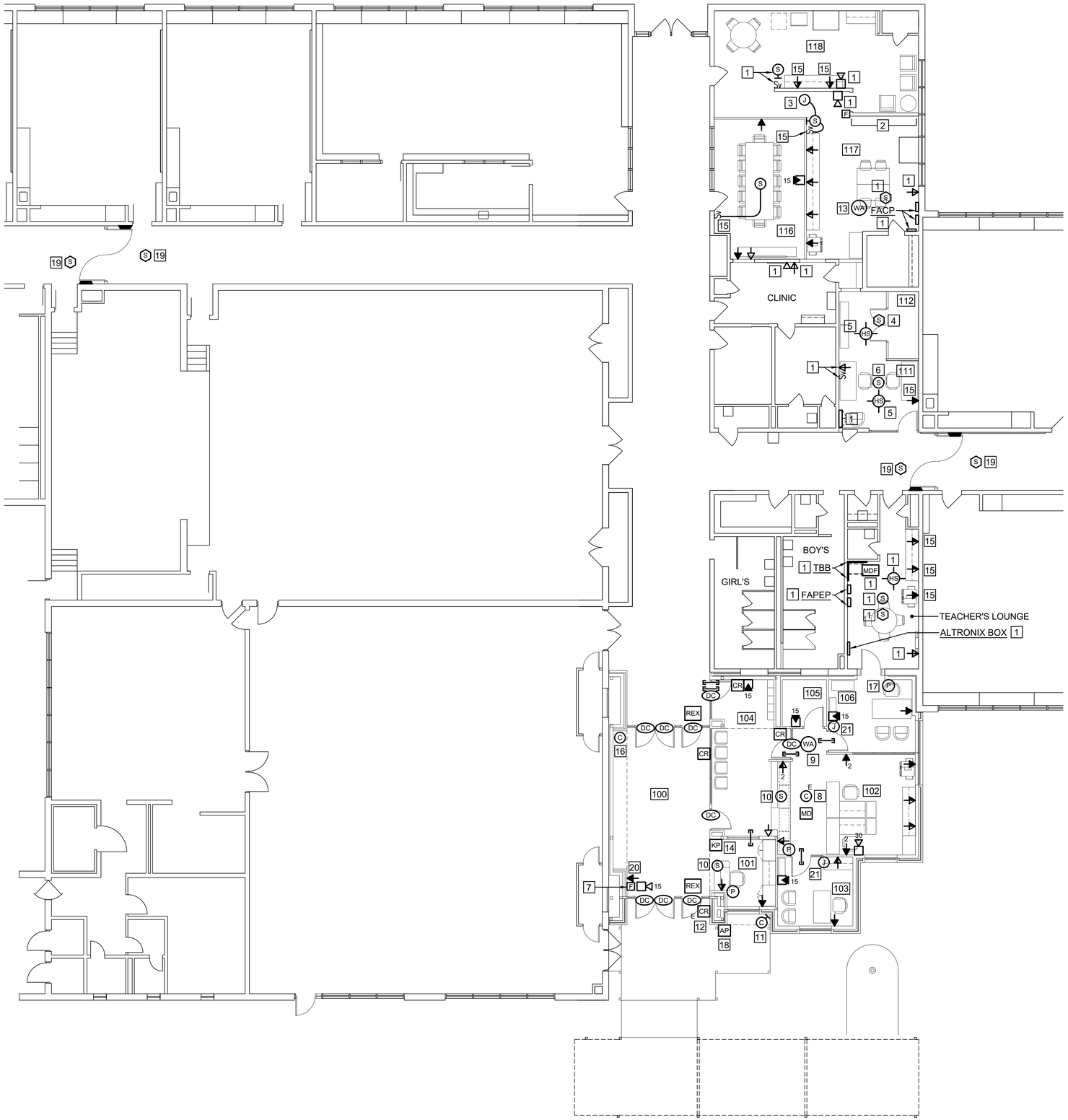
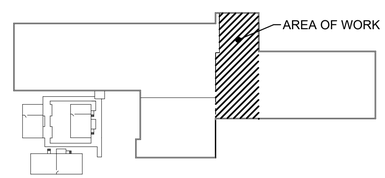


PARTIAL FLOOR PLAN - NEW WORK - AUXILIARY SYSTEMS

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

NEW WORK NOTES: (THIS DRAWING ONLY)

1. EXISTING REUSED.
2. ALL PANELS, RACKS, CONTROLS, OUTLETS AND ALL OTHER COMMUNICATION DEVICES LOCATED ON THIS WALL ARE EXISTING REUSED.
3. PROVIDE JUNCTION BOX ON END OF EXISTING SPEAKER CABLING SAVED DURING DEMOLITION AND EXTEND CABLING TO EXISTING WALL MOUNTED SPEAKER SAVED DURING DEMOLITION, IN NEW LOCATION.
4. INSTALL EXISTING CEILING MOUNTED SMOKE DETECTOR SAVED DURING DEMOLITION IN NEW CEILING AND CONNECT TO EXISTING CABLING SAVED DURING DEMOLITION.
5. INSTALL EXISTING CEILING MOUNTED FIRE ALARM DEVICE SAVED DURING DEMOLITION IN NEW CEILING AND CONNECT TO EXISTING FIRE ALARM CABLING SAVED DURING DEMOLITION.
6. INSTALL EXISTING CEILING MOUNTED SPEAKER SAVED DURING DEMOLITION IN NEW CEILING AND CONNECT TO EXISTING CABLING SAVED DURING DEMOLITION.
7. INSTALL EXISTING WALL MOUNTED FIRE ALARM DEVICE SAVED DURING DEMOLITION ON WALL AND CONNECT TO EXISTING FIRE ALARM CABLING SAVED DURING DEMOLITION.
8. INSTALL EXISTING CEILING MOUNTED CCTV CAMERA SAVED DURING DEMOLITION, ON NEW CEILING. PROVIDE NEW CABLING. COORDINATE EXACT LOCATION, CABLING AND TERMINATION POINT WITH NNPS TECHNOLOGY.
9. INSTALL NEW CEILING MOUNTED NETWORK WIRELESS ACCESS DEVICE ON NEW CEILING. PROVIDE TWO CAT5E PLENUM RATED CABLE HOMERUNS. PROVIDE 12'-0" OF SLACK ABOVE LAY-IN TILE CEILING. TERMINATE HOMERUNS IN EXISTING 'MDF' EQUIPMENT.
10. INSTALL NEW CEILING MOUNTED SPEAKER ON NEW CEILING.
11. PROVIDE FLUSH MOUNTED JUNCTION BOX, SIZE AS REQUIRED, FOR EXISTING CCTV CAMERA SAVED DURING DEMOLITION. PROVIDE EMPTY 1/2" CONDUIT FROM JUNCTION BOX TO ABOVE NEW LAY-IN TILE CEILING.
12. REINSTALL EXISTING ACS CARD READER SAVED DURING DEMOLITION. COORDINATE EXACT LOCATION WITH OWNER. CONNECT TO EXISTING CABLING/BRANCH CIRCUITRY SAVED DURING DEMOLITION.
13. REINSTALL EXISTING CEILING MOUNTED WIRELESS ACCESS DEVICE SAVED DURING DEMOLITION IN EXISTING CEILING AND RECONNECT TO EXISTING CABLING SAVED DURING DEMOLITION.
14. REINSTALL EXISTING SECURITY SYSTEM KEY PAD SAVED DURING DEMOLITION. CONNECT TO EXISTING CABLING SAVED DURING DEMOLITION.
15. PROVIDE 1-GANG SURFACE MOUNTED OUTLET BOX (WIREMOLD 700 SERIES OR EQUAL) WITH 1-GANG COVERPLATE. PROVIDE SURFACE MOUNTED RACEWAY FROM OUTLET BOX TO ABOVE LAY-IN TILE CEILING.
16. PROVIDE FLUSH MOUNTED JUNCTION BOX, SIZE AS REQUIRED, FOR NEW CCTV CAMERA. PROVIDE EMPTY 1/2" CONDUIT FROM JUNCTION BOX TO ABOVE LAY-IN TILE CEILING.
17. INSTALL OUTLET BOX FOR PANIC BUTTON STATION ON WALL +48" A.F.F. COORDINATE EXACT LOCATION WITH OWNER.
18. CONNECT NEW AIPHONE DEVICE TO EXISTING CABLING SAVED DURING DEMOLITION. COORDINATE WORK WITH NNPS TECHNOLOGY.
19. INSTALL NEW CEILING MOUNTED SMOKE DETECTOR ON EXISTING CEILING.
20. COORDINATE EXACT LOCATION OF DATA OUTLET WITH NNPS TECHNOLOGY PRIOR TO ROUGH-IN.
21. PROVIDE FLUSH MOUNTED SINGLE-GANG OUTLET BOX FOR OWNER USE +60" A.F.F. COORDINATE EXACT LOCATION OF JUNCTION BOX WITH NNPS TECHNOLOGY PRIOR TO ROUGH-IN. PROVIDE EMPTY 3/4" CONDUIT FROM OUTLET BOX TO ABOVE LAY-IN TILE CEILING.



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PARTIAL FLOOR PLAN - NEW WORK - AUXILIARY SYSTEMS

JOB NUMBER 2312

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