CAMPUS FOR STUDENT SUCCESS - MULTIPURPOSE ROOM RENOVATIONS

746 ADAMS DRIVE, NEWPORT NEWS, VIRGINIA 23601
NEWPORT NEWS PUBLIC SCHOOLS
12465 WARWICK BOULEVARD, NEWPORT NEWS, VA 23606

ISSUED FOR BID: IFB #011-0-2026/SB

DRAWING INDEX

PROJECT TEAM

QUINN EVANS Architects
1840 West Broad Street
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Richmond, VA 23220
v 804.788.4774

THOMPSON CONSULTING ENGINEERS MEP Engineers
22 Enterprise Parkway
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Hampton, VA 23666
v 757.599.4415

DUNBAR PLLC Structural Engineers
1025 Boulders Parkway
Suite 310
Richmond, VA 23225
v. 804.272.3916

PROJECT DATA

EXISTING BUILDING RENOVATION

THIS BUILDING RENOVATION IS DESIGNED TO BE COMPLIANT WITH THE 2021 EDITION OF THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE, INCLUDING THE 2021 EDITION OF THE VIRGINIA EXISTING BUILDING CODE, AND THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.

THE CONTRACTOR SHALL COMPLY WITH ALL ORDINANCES, REGULATIONS AND REQUIREMENTS OF THE CITY OF NEWPORT NEWS AND THE COMMONWEALTH OF VIRGINIA.

GENERAL PROJECT DESCRIPTION:
THIS PROJECT CONSISTS OF RENOVATIONS TO INTERIOR SPACES OF APPROXIMATELY 4,420 SF AT THE EXISTING CAMPUS FOR STUDENT SUCCESS (THE FORMER SOUTH MORRISON ELEMENTARY SCHOOL). RENOVATIONS INCLUDE, BUT ARE NOT LIMITED TO, INTERIOR ALTERATIONS TO THE EXISTING GYMNATORIUM AND STAGE AREA AS WELL AS ADJACENT SPACES. INTERIOR WORK WILL PROVIDE NEW FINISHES, FOLDING WALLS WITH NEW STRUCTURAL, AND NEW LIGHTING AND MECHANICAL SYSTEMS.

BUILDING RENOVATION SQUARE FOOTAGE
LEVEL 1: 4,420 GSF

BUILDING USE GROUP:	E
CONSTRUCTION TYPE:	IIB
SEISMIC DESIGN CATEGORY:	0
AUTOMATIC FIRE SUPPRESSION:	NONE

VICINITY MAP

CAMPUS FOR STUDENT SUCCESS
746 ADAMS DRIVE, NEWPORT NEWS, VA 23601

QUINN EVANS
1840 WEST BROAD STREET
SUITE 400
RICHMOND, VA 23220
v 804.788.4774
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COMMONWEALTH OF VIRGINIA
CHARLES W. TILLEY
LIC. No. 015767
10/03/2025
ARCHITECT

CAMPUS FOR STUDENT SUCCESS - MULTIPURPOSE ROOM
NEWPORT NEWS PUBLIC SCHOOLS

746 ADAMS DRIVE, NEWPORT NEWS, VIRGINIA 23601

No.	Date	Description

PROJECT MANAGER: CT
DRAWN BY: MN
ISSUED FOR BID: IFB #011-0-2026/SB
QEA No.Project Number 52406380
ISSUED FOR BID
OCTOBER 1, 2025

COVER SHEET

G001

ABBREVIATIONS

A/C AIR CONDITIONING
A/E ARCHITECT / ENGINEER
ABV ABOVE
ACCESS ACCESSIBLE
ACP ACOUSTICAL CEILING PANEL
ACST ACOUSTIC
AD AREA DRAIN
ADA AMERICANS WITH DISABILITIES ACT
ADD'L ADDITIONAL
ADJ ADJACENT/ADJUST
AFF ABOVE FINISHED FLOOR
AFG ABOVE FINISHED GRADE
AGG AGGREGATE
ALT ALTERNATE
ALUM ALUMINIUM
APPROX APPROXIMATE(LY)
ARCH ARCHITECT(URAL, URE)
ASPH ASPHALT(IC)
ASSOC ASSOCIATED
AUTO AUTOMATIC
AVG AVERAGE
AWP ACOUSTICAL WALL PANEL

BBT BIO-BASED TILE
BC BRICK COURSE
BD BOARD
BIT BITUMINOUS, BITUMEN
BLDG BUILDING
BLKG BLOCKING
BLKHD BULKHEAD
BLW BELOW
BM BEAM
BOS BOTTOM OF STEEL
BOT BOTTOM
BR BRASS OR BRONZE
BRG BEARING
BTWN BETWEEN
BUR BUILT-UP ROOF

C-C CENTER TO CENTER
CAB CABINET
CEM CEMENT
CFS COLD FORMED STEEL
CIP CAST-IN-PLACE
CJ CONTROL JOINT
CL CENTER LINE
CLG CEILING
CLO CLOSET
CLR CLEAR(ANCE)
CMU CONCRETE MASONRY UNIT
COL COLUMN
COM COMMUNICATIONS
CONC CONCRETE
COND CONDITION
CONFIG(S) CONFIGURATION(S)
CONST CONSTRUCTION
CONT CONTINUOUS
COORD COORDINATE
CORR CORRIDOR
CPT CARPET(ED)
CT CERAMIC TILE
CTR CENTER

D DEEP/DEPTH
DBL DOUBLE
DEG DEGREE
DEMO DEMOLISH, DEMOLITION
DETER DETERIORATING, DETERIORATED
DF DRINKING FOUNTAIN
DIA DIAMETER
DIAG DIAGONAL
DIM(S) DIMENSION(S)
DIV DIVIDE
DN DOWN
DR DOOR, DRAIN
DS DOWNSPOUT
DTL DETAIL
DWG(S) DRAWING(S)
DWR DRAWER

E EAST
E-P EPOXY PAINT
EA EACH
EJ EXPANSION JOINT
EL ELEVATION (TOPO)
ELEC ELECTRICAL
ELEV ELEVATION (ARCH), ELEVATOR
EMER EMERGENCY
ENCL ENCLOS(E,URE)
ENGR ENGINEER
ENTR ENTRANCE
EOS EDGE OF SLAB
EPDM ETHYLENE PROPYLENE DIENE MONOMER
EPS EXPANDED POLYSTYRENE BOARD
EQ EQUAL
EQUIP EQUIPMENT
EST ESTIMATE(D)
EW EACH WAY
EWC ELECTRIC WATER COOLER
EXH EXHAUST
EXHB EXHIBIT
EXIST EXISTING
EXP EXPOSED, EXPANSION
EXT EXTERIOR

FA FIRE ALARM
FAS FASTEN(ER)
FD FLOOR DRAIN
FDC FIRE DEPARTMENT CONNECTION
FDTN FOUNDATION
FE FIRE EXTINGUISHER
FEC FIRE EXTINGUISHER CABINET
FF FINISH(ED) FACE
FF&E FURNITURE, FIXTURES & EQUIPMENT
FH FIRE HOSE, FIRE HYDRANT
FHC FIRE HOSE CABINET
FIN(S) FINISH(ES)
FIXT FIXTURE
FL FLOOR(ING)
FLAM FLAMMABLE
FLUOR FLUORESCENT
FO FINISHED OPENING
FOS FACE OF STUDS
FP FIRE PROTECTION
FR FRAME(D,ING), FIRE RATING, FIRE RESISTANT
FT FEET
FTG FOOTING
FUR FURR(ED,ING)
FWC FABRIC WALL COVERING

G NATURAL GAS
GA GAUGE
GALV GALVANIZED
GB GRAB BAR
GC GENERAL CONTRACT(OR)
GEN GENERATOR
GF GLASS FILM
GFRC GLASS-FIBER-REINFORCED CONCRETE
GFRG GLASS-FIBER-REINFORCED GYPSUM
GFRP GLASS-FIBER-REINFORCED POLYESTER, GLASS-FIBER-REINFORCED PLASTIC
GL GLASS, GLAZING
GLU LAM GLUE LAMINATED WOOD
GOVT GOVERNMENT
GT GROUT
GWB GYPSUM WALLBOARD

H HIGH
HAZ MAT HAZARDOUS MATERIAL
HB HOSE BIBB
HC HOLLOW CORE, HOSE CABINET
HCWD HOLLOW CORE WOOD DOOR
HD HEAVY DUTY
HDR HEADER
HDWD HARDWOOD
HDWR HARDWARE
HID HIGH INTENSITY DISCHARGE
HM HOLLOW METAL
HORIZ HORIZONTAL(LY)
HP HIGH POINT
HSS HOLLOW STRUCTURAL SECTION
HT HEIGHT(S)
HT HEIGHT
HVAC HEATING, VENTILATION & AIR CONDITIONING
HW HOT WATER

ID INSIDE DIAMETER
ILO IN LIEU OF
IN INCH(ES)
INCAN INCANDESCENT
INCL INCLUDE(S,D,ING)
INFO INFORMATION
INSUL INSULATION, INSULATED
INT INTERIOR
INV INVERT
IRMA INVERTED ROOF MEMBRANE ASSEMBLY

J-BOX JUNCTION BOX
JAN JANITOR
JT(S) JOINT(S)

KIT KITCHEN
KO KNOCK OUT

L ANGLE
LAM LAMINATE(D)
LAV LAVATORY
LBL LABEL
LH LEFT HAND
LHR LEFTHAND REVERSE
LL LIVE LOAD
LLH LONG LEG HORIZONTAL
LLV LONG LEG VERTICAL
LP LOW POINT
LT GA LIGHT GAUGE
LTG LIGHTING
LV LOW VOLTAGE
LVT LUXURY VINYL TILE
LW LIGHT WEIGHT

MAS MASONRY
MATL MATERIAL(S)
MAX MAXIMUM
MDO MEDIUM DENSITY OVERLAY
MECH MECHANICAL
MED MEDIUM
MEMB MEMBRANE
MFR MANUFACTURE(R)
MIN MINIMUM
MISC MISCELLANEOUS
MO MASONRY OPENING
MOD BIT MODIFIED BITUMEN
MR MLISTURE RESISTANT
MTD MOUNTED
MTG MOUNTING
MTL METAL

N NORTH
NA NOT APPLICABLE
NAT NATURAL
NC NOISE CRITERIA, NORMALLY CLOSED
NIC NOT IN CONTRACT, NOISE ISOLATION CLASS
NO('S) NUMBER(S), NORMALLY OPEN
NOM NOMINAL
NRC NOISE REDUCTION COEFFICIENT
NTS NOT TO SCALE

O-O OUT TO OUT
OC ON CENTER
OD OUTSIDE DIAMETER
OF/CI OWNER FURNISHED / CONTRACTOR INSTALLED
OFC OFFICE
OH OPPOSITE HAND, OVERHEAD
OPNG OPENING(S)
ORIG ORIGINAL

PA PUBLIC ADDRESS
PAR PARALLEL
PART PARTITION(S), PARTIAL
PC PRECAST
PERF PERFORATE(D)
PL PLATE, PROPERTY LINE
PLAM PLASTIC LAMINATE
PLAS PLASTER
PLWD PLYWOOD
PNL PANEL(ED)
POL POLISHED
POLY POLYETHYLENE
PR PAIR
PREP PREPARE (SURFACE)
PROV PROVIDE(D)
PSF POUNDS PER SQUARE FOOT
PSI POUNDS PER SQUARE INCH
PT PAINT, POST-TENSIONED, PRESSURE TREATED
PTD PAINTED
PVC POLYVINYL CHLORIDE
PVMT PAVEMENT
PWR POWER

QT QUARRY TILE
QTY QUANTITY
QUAD QUADRANT
QZ QUARTZ
QZT QUARTZ TILE

R RADIUS, RISER, THERMAL RESISTANCE
RB RUBBER BASE
RBR RUBBER
RCP REFLECTED CEILING PLAN
RD ROOF DRAIN
REBAR REINFORCING BAR
REF REFERENCE
REG REGISTER, REGULATION
REINF REINFORCED
REPL REPLACE
REQ REQUIRED
RES RESILIENT
RET RETAINING, RETURN
REV REVISION(S) / REVISE(D)
RFG ROOFING
RFG ROOFING
RH RIGHT HAND, RELATIVE HUMIDITY
RHR RIGHT HAND REVERSE
RL RAIN LEADER
RM ROOM
RO ROUGH OPENING
RS RESILIENT SHEET
RTF RUBBER TILE FLOOR
RTU ROOF TOP UNIT
RV ROOF VENTILATOR

S SOUTH, SEAL
SAB SOUND ATTENUATION BATT
SALV SALVAGE
SAN SANITARY
SB SPLASH BLOCK
SC SOLID CORE
SCHED SCHEDULE
SCT STRUCTURAL CLAY TILE
SCWD SOLID CORE WOOD DOOR
SDT STANDARD DISSIPATIVE TILE
SEC SECURE, SECURITY
SECT SECTION
SF SQUARE FEET
SHT SHEET
SIM SIMILAR
SLD SEALED
SLL SOUND / LIGHT LOCK
SPEC SPECIFICATION
SQ SQUARE
SS STAINLESS STEEL
SSM SOLID SURFACE MATERIAL
ST STONE
STD STANDARD
STL STEEL
STN STAIN
STO STORAGE
STRUC STRUCTURAL
SUB SUBSTITUTION
SUSP SUSPENDED
SYS SYSTEM

T THICK, TREAD, TOILET
T&G TONGUE AND GROOVE
T.O. TOP OF
TBB TILE BACKER BOARD
TECH TECHNOLOGY
TEL TELEPHONE
TEMP TEMPORARY, TEMPERED
THRS THRESHOLD
THRU THROUGH
TOC TOP OF CONCRETE
TOF TOP OF FOOTING
TOJ TOP OF JOIST
TOM TOP OF MASONRY
TOP TOP OF PARAPET
TOS TOP OF STEEL
TOW TOP OF WALL
TRANS TRANSPARENT
TRZ TERAZZO
TV TELEVISION
TYP TYPICAL

UC UNDERCUT
UH UNIT HEATER
UIO UNLESS INDICATED OTHERWISE
UL UNDERWRITER'S LABORATORY
UNFIN UNFINISHED
UR URINAL

VAR VARIES
VAT VINYL ASBESTOS TILE
VB VINYL BASE
VCT VINYL COMPOSITION TILE
VERT VERTICAL
VEST VESTIBULE
VIF VERIFY IN FIELD
VTR VENT THROUHG ROOF
VU VENTILATION UNIT
VWC VINYL WALLCOVERING

W WEST, WIDE, WIDE FLANGE
W-W WALL TO WALL
W/ WITH
W/O WITHOUT
WC WATER CLOSET
WD WOOD
WDW WINDOW
WH WALL HEATER
WP WATERPROOFING, WORK POINT
WT WEIGHT
WWF WELDED WIRE FABRIC
WWM WELDED WIRE MESH

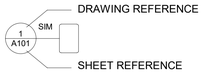
X BRACE CROSS BRACING
XFER TRANSFER

YD YARD, YARD DRAIN

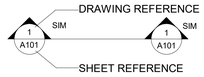
NUMBER, POUND
& AND
@ AT
± PLUS / MINUS

GRAPHIC SYMBOLS

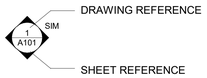
DETAIL / PLAN



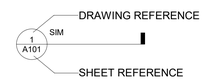
BLDG SECTION CUT



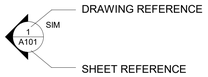
INTERIOR ELEVATION



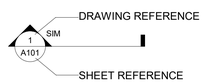
DETAIL CUT



EXTERIOR ELEVATION



WALL SECTION CUT



MATERIAL SYMBOLS

EARTH
GRAVEL
CONCRETE-PLAN
CONCRETE-SECTION
PRECAST CONCRETE
BRICK
CMU
GROUT
STONE
STEEL
ALUMINUM
BRASS/BRONZE
DIMENSIONAL LUMBER (SIZE AS INDICATED)
DISCONTINUOUS LUMBER (SIZE AS INDICATED)
WOOD
PLYWOOD
PARTICLE BOARD

BATT INSULATION
RIGID INSULATION
SPRAY FOAM INSULATION
SPRAY FIREPROOFING
GLASS
PLASTIC
SHIM
3/8" SEALANT & BACKER ROD (SIZE AS INDICATED)
GYPSUM BOARD / PLASTER
PLASTER AND LATH
METAL STUD
METAL TRACK
ACOUSTICAL CEILING
CARPET

SYMBOLS

Room name
101
ROOM NUMBER
FINISH TYPE

101
DOOR NUMBER

XX
WALL TYPES

XX
WINDOW NUMBER

XX
LOUVER TAG

EXISTING ELEVATION

NEW ELEVATION

WORK POINT

XX-XX KEYNOTE

XX MATERIAL DESIGNATION (REFER TO MATERIALS SCHED.).

REVISION CLOUD AND INDICATOR

XX CONSTRUCTION ASSEMBLY

X/SHEET #
X/SHEET #
MATCHLINE

A EXISTING COLUMN LINE

A NEW COLUMN LINE

GENERAL WORK NOTES

1. REFER TO SPECIFICATION SECTION 01010, SUMMARY OF WORK, FOR REQUIREMENTS DURING CONSTRUCTION AND USE OF PREMISES.
2. BUILDING DEMOLITION MAY BEGIN ONLY AFTER OWNER HAS VACATED THE AREA.
3. CONTRACTOR ACCESS TO THE SPACE WILL BE AVAILABLE TO THE CONTRACTOR AT NOTICE TO PROCEED.
4. 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 NOT TO OVERLOAD THE BUILDING STRUCTURE OR INDUCE LOADS ON PARTIALLY COMPLETED WORK WITHOUT ADEQUATE TEMPORARY SHORING, BRACES, SUPPORTS AND OTHER MEASURES TO PROTECT THE WORK IN PLACE. PROVIDE FIRE EXTINGUISHERS THROUGHOUT THE WORK AREA, AND IDENITIFY A FIRST AID STATION ON THE SITE.
5. THE CONTRACTOR SHALL BEAR ALL RESPONSIBILITY FOR SECURING THE SITE DURING CONSTRUCTION. PROVIDE TEMPORARY SIGNAGE AS REQUIRED FOR EMERGENCY ACCESS. MAINTAIN ALL TEMPORARY FACILIITES SUCH AS FENCES, PROJECT TRAILERS AND STORAGE CONTAINERS IN NEAT CONDITION. PROVIDE TEMPORARY RESTROOM FACILITIES ON THE SITE WITHIN SECURED AREA FOR ALL CONSTRUCTION PERSONNEL USE DURING THE WORK.
6. THE BUILDING SHALL REMAIN OCCUPIED AND IN USE DURING THIS 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 THE SAFETY OF STUDENTS, STAFF AND THE PUBLIC.
7. CONSTRUCTION ACCESS TO THE WORK AREA SHALL BE AS INDICATED. CONTRACTOR SHALL SECURE CONSTRUCTION AREA & ACCESS. USE OF SCHOOL PARKING LOT SHALL BE APPROVED BY NNPS DURING THE SCHOOL DAY (7:30 AM – 4:00 PM).
8. CONTRACTOR TO MAINTAIN PUBLIC ACCESS TO ALL PUBLIC ROADS AT ALL TIMES.
9. IF CONTRACTORS MAKES AN AREA, COURTYARD, OR FIELD INACCESSIBLE TO THE SCHOOL (BLOCKED OFF BY CONSTRUCTION FENCE), THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING, MOWING AND WEED EATING UNTIL TURNED OVER TO OWNER.
10. ALL UTILITY SERVICE TO SCHOOL SHALL NOT BE INTERRUPTED DURING SCHOOL SESSIONS. MAINTAIN ALL EXISTING UTILITIES DURING CONSTRUCTION. COORDINATE POWER/ UTLITIES OUTAGES W/ OWNERS REPRESENTATIVES. THIS INCLUDES ELECTRICAL POWER COMMUNICATIONS, AND OTHER UTILITIES AS REQUIRED.
11. CONTRACTOR SHALL CREATE CONSTRUCTION ENTRANCES TO WORK AREAS THROUGH RENOVATION AREAS ONLY.
12. ALL CORRIDORS SHALL REMAIN CLEAR OF SUPPLIES AND CONSTRUCTION PERSONNEL DURING OCCUPIED SCHOOL HOURS. CONTRACTOR SHALL TAKE PROPER MEASURES FOR PUBLIC SAFETY FOR ALL WORK ADJACENT TO AREAS NOT CURRENTLY UNDER CONSTRUCTION.
13. ALL SCHOOL EXITS MUST BE MAINTAINED. WHERE THE EGRESS ELEMENTS OF AN OCCUPIED BUILDING DISCHARGE THROUGH AND / OR ALONG A PLANNED AREA OF RENOVATION, THE CONTRACTOR SHALL PROVIDE TEMPORARY BARRICADES THAT MAINTAIN A SAFE, SECURE, AND DISTINCT EGRESS PATH FROM SAID OCCUPIED AREAS.
14. CONTRACTOR SHALL COORDINATE ROOFING WORK ADJACENT TO NEW MECHANICAL SYSTEMS TO ENSURE WATERTIGHT CONDITION OF BUILDINGS.
15. EXISTING UTILITY ROUTING WITHIN BUILDING IS NOT SHOWN. CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH OTHER DISCIPLINES TO PROVIDE TEMPORARY RELOCATION AND RE-ROUTING OF MECH., PLUMB., AND ELEC. SYSTEMS AND DEVICES AS NEEDED FOR CONSTRUCTION. ALL TEMP. RELOCATION SHALL INCUR NO ADDITIONAL COSTS TO THE OWNER DURING CONSTRUCTION.
16. CONTRACTOR TO PROVIDE AND MAINTAIN TEMPORARY UTILITIES NOTED IN ITEM #15 ABOVE AND AS REQUIRED FOR CONSTRUCTION PHASING. TEMPORARY UTILITIES TO BE REMOVED UPON COMPLETION OF WORK.
17. CORRIDOR CEILING FINISHES IN OCCUPIED SPACES MAY BE LEFT INCOMPLETE (OPEN) TO FACILITATE INSTALLATION OF MECHANICAL AND ELECTRICAL SYSTEMS AS NEEDED DURING CONSTRUCTION. ALL MEANS OF EGRESS SIGNAGE, LIFE SAFETY SYSTEMS, LIGHTING, FIRE SPRINKLER, AND MECHANICAL SYSTEMS SHALL REMAIN AS REQUIRED. COORDINATE NEW WORK WITH EXISTING SYSTEMS THAT ARE REQUIRED FOR OCCUPANCY. ENSURE ALL EQUIPMENT, DEVICES AND CONNECTIONS ARE SECURED TO STRUCTURE.
18. IF AREA IS NOT SHOWN FOR MODIFICATION DURING CONSTRUCTION, CONTRACTOR IS TO REPAIR ALL SITE AND BUILDING MODIFICATIONS REQUIRED FOR CONSTRUCTION ACCESS TO MATCH EXISTING CONDITIONS.
19. 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.
20. 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.
21. 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.
22. 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.
23. 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 RE-ESTABLISHMENT OF TURF IN THESE AND ANY OTHER AREAS WHERE GRASS HAS BEEN DAMAGED DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY CONCRETE CURBS AND SIDEWALKS, DRIVEWAYS, OR ASPHALT-PAVED SURFACES DAMAGED BY OPERATIONS.
24. DIMENSIONS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO STARTING THE WORK.
25. 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 PREFORM THIS COORDINATION WILL NOT EXCUSE SUBSEQUENT CONFLICT OR FAILURE TO MEET CONTRACTED COMPLETION DATE.
26. IN GENERAL, ALL PATCHING, REPAIR, AND RENOVATION WORK IS INTENDED TO MATCH, COMPLEMENT, AND ALIGN WITH THE EXISTING ADJACENT CONDITIONS.
27. 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 2021 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.

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COMMONWEALTH OF VIRGINIA
CHARLES W. TILLEY
LIC. No. 010767
10/03/2025
ARCHITECT

CAMPUS FOR STUDENT SUCCESS - MULTIPURPOSE ROOM
NEWPORT NEWS PUBLIC SCHOOLS

746 ADAMS DRIVE, NEWPORT NEWS, VIRGINIA 23601

No.	Date	Description

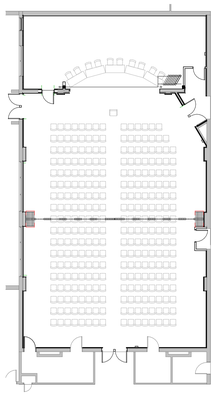
PROJECT MANAGER: CT
DRAWN BY: MN

ISSUED FOR BID: IFB #011-0-2026/SB
QEA No.Project Number 52406380

ISSUED FOR BID
OCTOBER 1, 2025

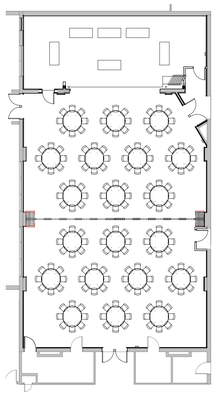
LEGENDS, SYMBOLS, ABBREVIATIONS, & GENERAL NOTES

G101



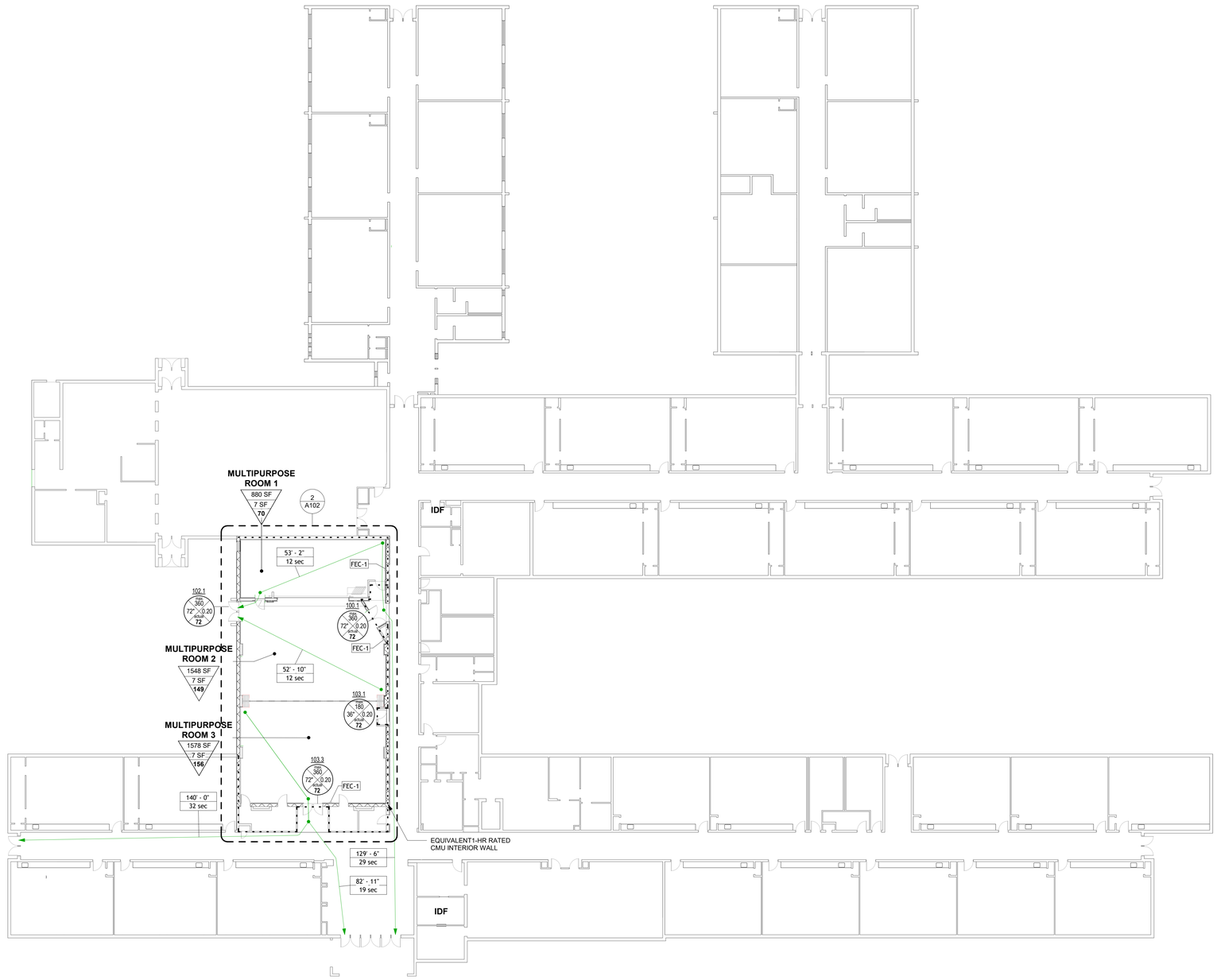
LECTURE/PANEL LAYOUT
(NOT FOR CONSTRUCTION)

PARTITIONS OPEN (SHOWN)	285 GUEST SEATS + 10 PANELISTS
PARTITIONS CLOSED	140 SEATS (ROOM 1 145 SEATS (ROOM 2), 70 SEATS (ROOM 3) 355 TOTAL



BANQUET LAYOUT
(NOT FOR CONSTRUCTION)

PARTITIONS OPEN (SHOWN)	20 TABLES AND 160 CHAIRS
PARTITIONS CLOSED	9 TABLES W/ 72 CHAIRS (EA. ROOM 1 & 2) 4 TABLES W/ 32 SEATS (ROOM 3) 22 TABLES W/ 176 CHAIRS TOTAL



1 G102 LIFE SAFETY PLAN
1/16" = 1'-0"

LIFE SAFETY LEGEND

ROOM NAME — ROOM TAG
1548 SF — ROOM AREA
7 SF — ROOM OCCUPANT LOAD FACTOR
149 — NUMBER OF OCCUPANTS

STAIR OR DOOR EGRESS TAG
102.1 — STAIR OR DOOR IDENTIFIER
Width — EXIT CAPACITY
360 — EXIT CAPACITY FACTOR
72" 0.20 — STAIR OR DOOR CLEAR WIDTH
Actual 72 — ACTUAL OCCUPANT LOAD

52' - 10" / 12 sec — EXIT ACCESS TRAVEL DISTANCE / EXIT ACCESS TRAVEL TIME

EGRESS PATH

FEC-1 — FIRE EXTINGUISHER CABINET - RECESSED

0' 4' 8' 16' 32'

QUINN EVANS
1840 WEST BROAD STREET
SUITE 400
RICHMOND, VA 23220
v 804.788.4774
QUINNEVANS.COM

COMMONWEALTH OF VIRGINIA
CHARLES W. TILLEY
LIC. No. 010767
10/03/2025
ARCHITECT

CAMPUS FOR STUDENT SUCCESS - MULTIPURPOSE ROOM
NEWPORT NEWS PUBLIC SCHOOLS

746 ADAMS DRIVE, NEWPORT NEWS, VIRGINIA 23601

No.	Date	Description

PROJECT MANAGER: CT
DRAWN BY: MN

ISSUED FOR BID: IFB #011-0-2026/SB
QEA No.Project Number 52406380

ISSUED FOR BID
OCTOBER 1, 2025

LIFE SAFETY PLAN

G102

PATH & FILENAME: Autodesk Docs://Campus for Student Success/Arch_CampusforStudentSuccess_R24.rvt
PLOTTING DATE & TIME: 10/2/2025 4:21:15 PM

GENERAL NOTES

1. DASHED LINES INDICATE EXISTING CONSTRUCTION TO BE REMOVED U.N.O., REMOVAL OF PARTITIONS INCLUDES REMOVAL OF ALL ITEMS FIXED TO PARTITIONS (DOORS, CASEWORK, ELECTRICAL, PLUMBING, ETC). EXTENT OF SELECTIVE DEMOLITION SHALL BE AS REQUIRED FOR INSTALLATION OF NEW WORK. EXISTING WORK TO REMAIN, IF DAMAGED BY DEMOLITION OPERATIONS, SHALL BE REPAIRED TO MATCH ORIGINAL SURFACE CONDITION OR AS INDICATED IN THE DRAWINGS.

2. PRIOR TO REMOVAL OR MODIFICATION OF WALLS OR OTHER LOAD BEARING ELEMENTS, THE ACTUAL SIZE AND LOCATION OF THE STRUCTURAL COMPONENTS AND LOAD BEARING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR BY MEANS OF SELECTIVE DEMOLITION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY UNUSUAL OR HAZARDOUS CONDITION INCLUDING BUT NOT LIMITED TO CRACKS, ABSENCE OF BRACING, OR LOOSE ELEMENTS AND COMPONENTS.

3. CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING AND SHORING REQUIRED TO SAFELY SUPPORT ALL LOADS, INCLUDING ROOF LOADS, AND TO MAINTAIN EXISTING FRAMING TO REMAIN IN ITS EXISTING LOCATION WHILE MAKING MODIFICATIONS REQUIRED UNDER THIS CONTRACT. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

4. REFERENCE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR REMOVAL OF ALL EQUIPMENT, FIXTURES, DEVICES, WIRING, PIPING, ETC. DEMOLISH ALL EXISTING WIREMOLD. ABANDONED PIPING AND CONDUIT SHALL BE CAPPED IN CONCEALED LOCATIONS AFTER BEING SECURED IN PLACE. PATCH EXPOSED WALLS BEHIND REMOVED EQUIPMENT, INCLUDING LARGER AREAS OF WALL WHERE ELECTRICAL PANELS ARE BEING REMOVED FROM WALLS TO REMAIN IN PLACE, ACCORDING TO GENERAL NOTE 6A. AT ALL AREAS WHERE NEW PIPING IS BEING INSTALLED IN AN EXISTING WALL, DEMOLISH THE EXISTING WALL AS REQUIRED AND PATCH WITH NEW WALL TO MATCH EXISTING. TOOTH-IN NEW MASONRY AS REQUIRED TO ACHIEVE AN "AS NEW" CONDITION.

5. TYPICAL DEMOLITION, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:

A. WALLS/PARTITIONS: REMOVE ENTIRELY WHERE SHOWN DASHED. WHERE WALLS ARE INDICATED TO REMAIN, REMOVE ALL ITEMS MOUNTED TO WALL. AT INTERSECTIONS OF ONE OR MORE WALLS TO BE REMOVED OR WHERE NEW DOOR OPENINGS ARE CUT, REPAIR REMAINING EXPOSED MASONRY SURFACES BY TOOTHING NEW MASONRY INTO EXISTING COURSING AND/OR REPAIR SURFACE OF DRYWALL TO ACHIEVE AN "AS NEW" CONDITION. WHERE FRAMES, LINTELS, AND PORTIONS OF EXISTING MASONRY WALLS ARE SCHEDULED TO BE REMOVED, REPAIR WALLS BY TOOTHING IN MASONRY. AT ALL LOCATIONS WHERE THIS EXISTING MASONRY IS BRICK, REPAIRS SHALL BE MADE WITH SALVAGED BRICK OR BRICK TO MATCH EXISTING TOOTHED INTO EXISTING COURSING. WHERE PARTITIONS EXTEND BELOW FLOOR, REMOVE PARTITIONS TO 8" MINIMUM BELOW FLOOR AND REPAIR EXISTING SLAB. WHERE NEW PARTITIONS ARE SCHEDULED TO BE INSTALLED AT SAME LOCATION AS REMOVED PARTITION REFERENCE STRUCTURAL DRAWINGS FOR DETAILS.

B. WALL BASE: REMOVE BASE MATERIAL FROM ALL WALLS/PARTITIONS INCLUDING ALL OF THOSE EXISTING TO REMAIN. PATCH EXISTING SURFACES AS REQUIRED TO RECEIVE NEW BASE MATERIAL.

C. FLOORS: REMOVE IN ITS ENTIRETY U.N.O. RESILIENT FLOORING (VINYL COMPOSITION TILE), CARPET AND MASTIC. EXISTING FLOORS TO RECEIVE NEW FINISHES SHALL BE PREPARED AS REQUIRED (STRIPPING, GRINDING, FLASH PATCHING, ETC) TO RECEIVE NEW FINISHES. COORDINATE WITH FINISH SCHEDULE. WHERE EXISTING CONCRETE IS NEW FINISH, GRIND SMOOTH AND PATCH EXISTING FLOOR WITH FLOOR LEVELING COMPOUND AND AS REQUIRED IN ALL AREAS WHERE ADJACENT SLABS ARE NOT LEVEL AFTER REMOVAL OF WALLS.

D. CEILINGS AND BULKHEADS: UNLESS NOTED OTHERWISE REMOVE ALL SUSPENDED ACOUSTIC CEILINGS AND GRID SYSTEMS, EXISTING DRYWALL/PLASTER CEILINGS AND SUPPORT ITEMS.

E. DOORS: WHERE BOTH DOORS AND FRAMES ARE SCHEDULED TO BE REMOVED, REMOVE DOORS, LINTELS, FRAMES AND RELATED HARDWARE. WHERE DOORS ARE SCHEDULED TO BE REMOVED, REMOVE DOORS AND RELATED HARDWARE. PREPARE EXISTING TO REMAIN FRAMES TO RECEIVE NEW HARDWARE AND PAINT AS REQUIRED. REFERENCE DEMOLITION PLAN LEGEND AND FRAME SCHEDULE FOR EXISTING FRAME TO REMAIN.

F. FURNISHINGS/EQUIPMENT: CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL CASEWORK AND ALL ITEMS AFFIXED TO WALLS INCLUDING BUT NOT LIMITED TO MARKERBOARDS, TACKBOARDS, SHELVING AND BRACKETS. ANY OTHER FURNISHINGS AND BUILT-IN EQUIPMENT, INTERIOR OR EXT, LEFT IN PROJECT AREA AT TIME OF TURNOVER TO CONTRACTOR SHALL BE REMOVED BY THE CONTRACTOR.

6. AT ALL WALL LOCATIONS WHERE EXISTING CHASE WALL HAS BEEN REMOVED AND THE INTERIOR CHASE WALL IS BEING EXPOSED AND SCHEDULED TO REMAIN, REPOINT CMU AND/OR BRICK AS REQUIRED TO ACHIEVE AN "AS NEW" WALL CONDITION.

7. ALL DIMENSIONS INDICATED IN DEMOLITION PLANS ARE TO FINISHED FACE OF NEW OPENING U.N.O. CONTRACTOR TO COORDINATE EXTENT OF DEMO NECESSARY WITH NEW WORK.

8. GRIND SMOOTH AND PATCH EXISTING FLOOR WITH FLOOR LEVELING COMPOUND AND AS REQUIRED IN ALL AREAS WHERE ADJACENT SLABS ARE NOT LEVEL AFTER REMOVAL OF WALLS. PREPARE FOR INSTALLATION OF NEW FINISHES.

9. AT ALL LOCATIONS WHERE THE EXTERIOR ENVELOPE IS BEING DEMOLISHED OR INFILLED, THE CONTRACTOR SHALL PROVIDE SECURITY CLOSURE AND WEATHER PROTECTION IN ORDER TO SECURE THE BUILDING AND PROTECT IT AGAINST THE ELEMENTS.

10. AT ALL NEW RECESSED FIRE EXTINGUISHER CABINETS TO BE INSTALLED IN EXISTING WALLS, DEMOLISH PORTION OF WALL REQUIRED FOR INSTALLATION OF NEW RECESSED FEC. COORDINATE WITH NEW WORK.

11. AT EXTERIOR FACE BRICK DEMOLITION, SALVAGE AND PREPARE EXISTING FACE BRICK FOR REUSE WITHIN EXISITNG INFILL.

DEMOLITION KEYNOTES

NOTED AS ON DEMOLITION PLAN 1/A102

REFERENCE 1/A102

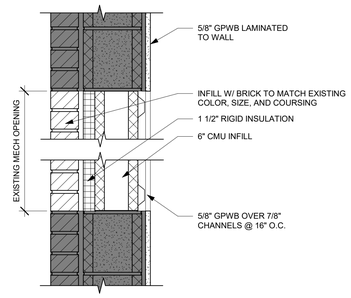
1. REMOVE 6-INCH CMU WALL ENTIRELY AND PATCH THE ADJACENT WALL AND FLOOR AS REQUIRED FOR NEW WORK.
2. REMOVE EXISTING WINDOW TREATMENT AND HARDWARE.
3. REMOVE ALL CURTAINS, TRACK, HARDWARE, PROJECTION SCREENS, HVAC, LIGHTING AND OTHER CEILING MOUNTED COMPONENTS NOT REQUIRED FOR NEW WORK.
4. REMOVAL OF EXISTING ELEVATED STAGE FLOOR STRUCTURE: EXISTING TOP OF FINISHED WOOD FLOOR FOR THE STAGE IS 2'-10"+/- (VIF) ABOVE THE MAIN FLOOR ELEVATION. THE EXISTING WALL SECTION DENOTES BACKFILL OF SOIL FILL MATERIALS AND STONE UNDER STAGE AREA. REMOVE ALL FLOOR AND SLAB MATERIALS AND EXCAVATE TO THE LEVEL REQUIRED FOR NEW WORK.

NEW WORK KEYNOTES

NOTED AS ON NEW WORK FLOOR PLAN 2/A102

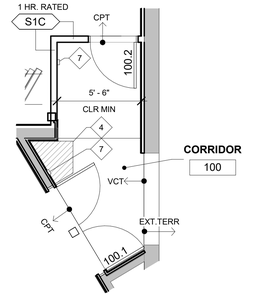
REFERENCE 2/A102

1. NEW MASONRY INFILL AT ABANDONED MECHANICAL LOUVER APPROXIMATELY 5'-4" WIDE X 2'-8" TALL - VERIFY DIMENSIONS IN THE FIELD. TOOTH IN NEW BRICK MASONRY TO MATCH EXISTING COLOR AND COURSING.
2. AT CONCRETE STAIR DEMOLITION, REMOVE EXISITNG CMU IN PLANE OF BUILDING EXTERIORWALL AND INFILL AREA COVERED BY STAIR AND LANDING WITH NEW FACE BRICK TO MATCH EXISTING EXTERIOR BRICK WALLS.
3. TOOTH IN NEW CMU AT NEW OPENING IN EXISTING CMU WALLS TO MATCH EXISTING. APPLIES TO NEW OPENINGS AND HOLLOW METAL DOOR JAMBS (BOTH SIDES) AND HEAD.
4. AT REMOVAL OF EXISTING CMU WALLS AT THE NEW OPENING AREA, PATCH TERRAZZO FLOOR SLAB WITH NEW CONCRETE INFILL AND LAMINATE 5/8-INCH GPDW WALL SURFACE OVER EXISTING CMU/TILE WALL. SHIM GYP AS REQUIRED TO PROVIDE A CONSISTENT, VERTICAL SURFACE.
5. APPROXIMATE LOCATION OF DUCT PENETRATION ABOVE CEILING. COORDINATE LOCATION MECHANICAL INSTALLATION. REFERENCE DETAILS ON SHEET A104.
6. INFILL DUCT LOCATION IN EXISTING 6-INCH CMU WALL. TOOTH IN NEW MASONRY TO MATCH WALL COURSING.
7. NEW DOOR ACCESS CONTROL CARD READER. ROUGH IN AS NOTED ON ELECTRICAL DRAWINGS. CABLING AND READER CONTROLS AND HARDWARE BY OWNERS.
8. DIGITAL PROJECTOR CONTROL LOCATION. ROUGH IN AS NOTED ON ELECTRICAL DRAWINGS. CABLING, CONNECTIONS AND HARDWARE BY OWNER.
9. FURNISH AND INSTALL 6'-0" TALL, 3/4"-INCH FIRE RETARDANT TREATED PANELS ON WALL FOR MOUNTING AV/IT SYSTEMS.



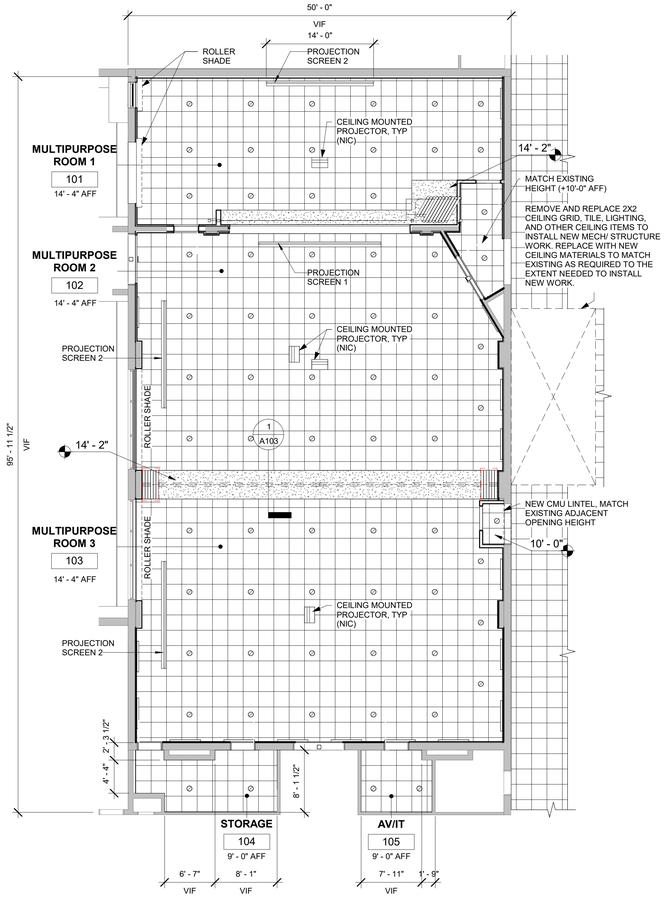
4 A102 MECH. VENT INFILL DETAIL

1 1/2" = 1'-0"



5 A102 ENLARGED VIEW - NEW WORK

1/4" = 1'-0"



GENERAL NEW WORK NOTES

1. DIMENSION ARE TO FINISH FACE UNLESS INDICATED OTHERWISE.
2. INTERIOR PARTITIONS TO BE:
   A. TYPE **S2A1** UNLESS INDICATED OTHERWISE.
   B. ALL INTERIOR EXISTING WALLS TO RECEIVE S2A1 WALL ASSEMBLY ON FULL HEIGHT OF WALL
   C. ALIGNED WITH ADJACENT CONSTRUCTION WHERE SHOWN.
3. PAINT ALL NEW AND EXISTING WALLS, HOLLOW METAL DOORS AND FRAMES, AND GWB CEILINGS IN NEW WORK AREA
4. AT ALL NEW ELECTRICAL WALL OUTLET BOXES AND ASSOCIATED CONDUITS, ROUTE OR TRENCH OUT CMU/ CERAMIC TILE WALL TO CONCEAL NEW WORK WITHIN FINISHED WALL SURFACE.
5. INTERIOR FINISHES (REFERENCE SPECIFICATIONS) AND COLORS:
   FLOORS: CARPET AND VCT
   WALL BASE: RUBBER
   WALLS: FIELD COLOR, PNT-1
   WALLS: ACCENT COLOR, PNT
   FABRIC WALL PANEL: FWP-1
   CEILING: ACT-1
6. ALL COLORS SHALL BE SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE.
7. ALL GWB WALLS - EGGSHELL FINISH
8. ALL CMU WALLS - SEMI-GLOSS FINISH
9. GWB CEILINGS AND BULKHEADS - FLAT FINISH
10. ALL HM DOORS AND FRAMES - SEMI-GLOSS FINISH
11. RUBBER TRANSITION STRIPS - SHALL BE INSTALLED AT NEW AND EXISTING FLOOR FINISH TRANSITIONS.

RCP LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- PARTITION
- ACOUSTIC PANEL CEILING
- GYPSUM BOARD CEILING
- RECESSED CAN LIGHT
- PROJECTOR (NIC)

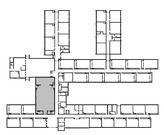
NEW WORK LEGEND

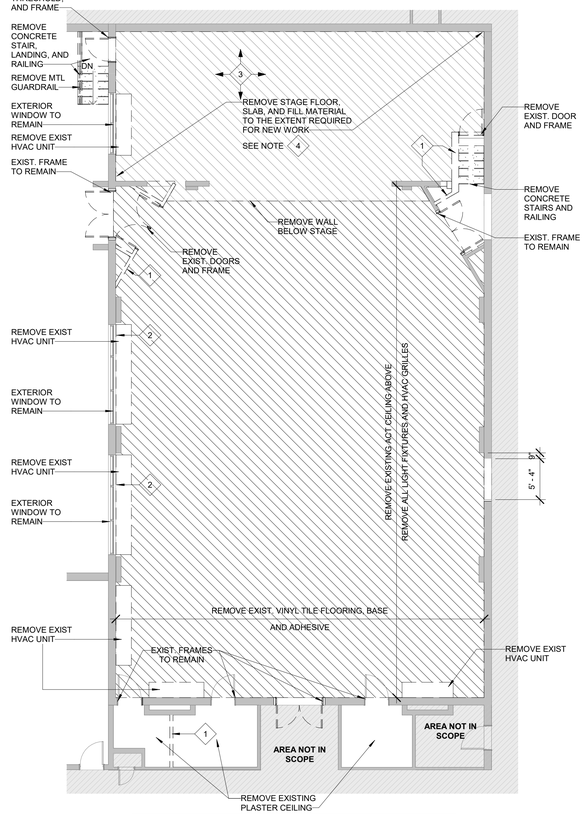
- EXISTING CONSTRUCTION TO REMAIN
- EXISTING DOOR TO REMAIN
- WALL / PARTITION
- DOOR

DEMOLITION LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING DOOR TO REMAIN
- ITEM / CONSTRUCTION TO BE REMOVED, SALVAGED OR REINSTALLED
- DOOR TO BE REMOVED, SALVAGED OR REINSTALLED
- EXTENT OF SLAB/FLOOR FINISH REMOVAL

KEY PLAN:

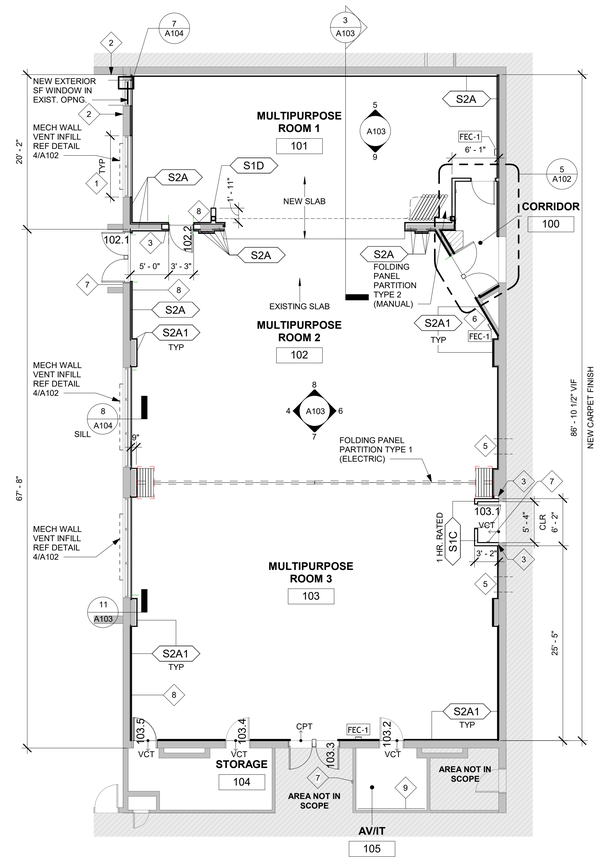




GENERAL DEMOLITION NOTES APPLY TO THIS FLOOR PLAN

1 A102 DEMOLITION FLOOR PLAN

1/8" = 1'-0"



2 A102 NEW WORK FLOOR PLAN

1/8" = 1'-0"

3 A102 NEW WORK REFLECTED CEILING PLAN

1/8" = 1'-0"

QUINN EVANS
1840 WEST BROAD STREET
SUITE 400
RICHMOND, VA 23220
v 804.788.4774
QUINNEVANS.COM

COMMONWEALTH OF VIRGINIA
CHARLES W. TILLEY
LIC. No. 017767
10/03/2025
ARCHITECT

CAMPUS FOR STUDENT SUCCESS - MULTIPURPOSE ROOM
NEWPORT NEWS PUBLIC SCHOOLS

746 ADAMS DRIVE, NEWPORT NEWS, VIRGINIA 23601

No.	Date	Description

PROJECT MANAGER: CT
DRAWN BY: MN

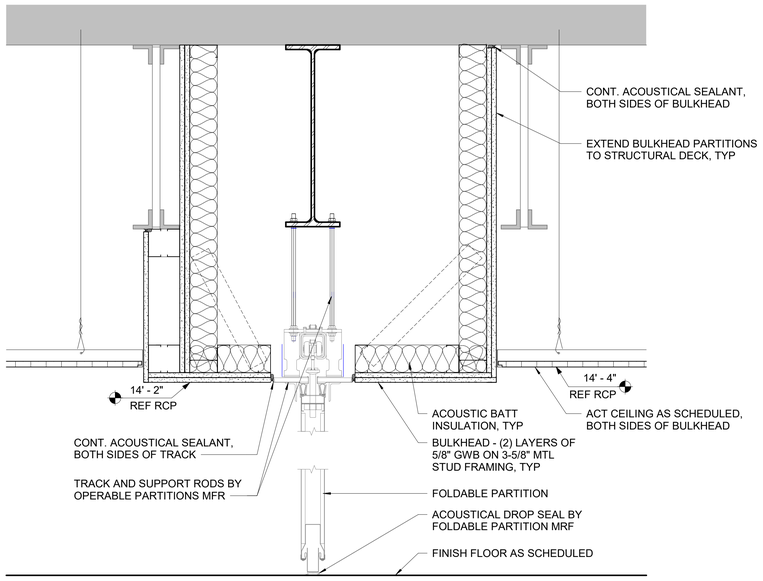
ISSUED FOR BID: IFB #011-0-2026/SB
QEA No.Project Number 52406380

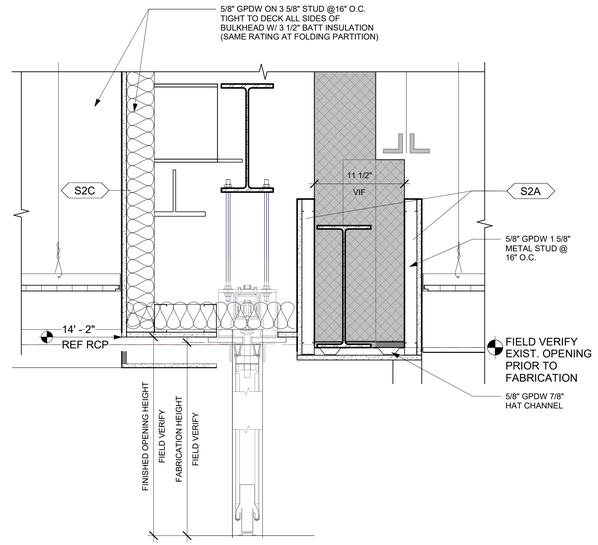
ISSUED FOR BID
OCTOBER 1, 2025

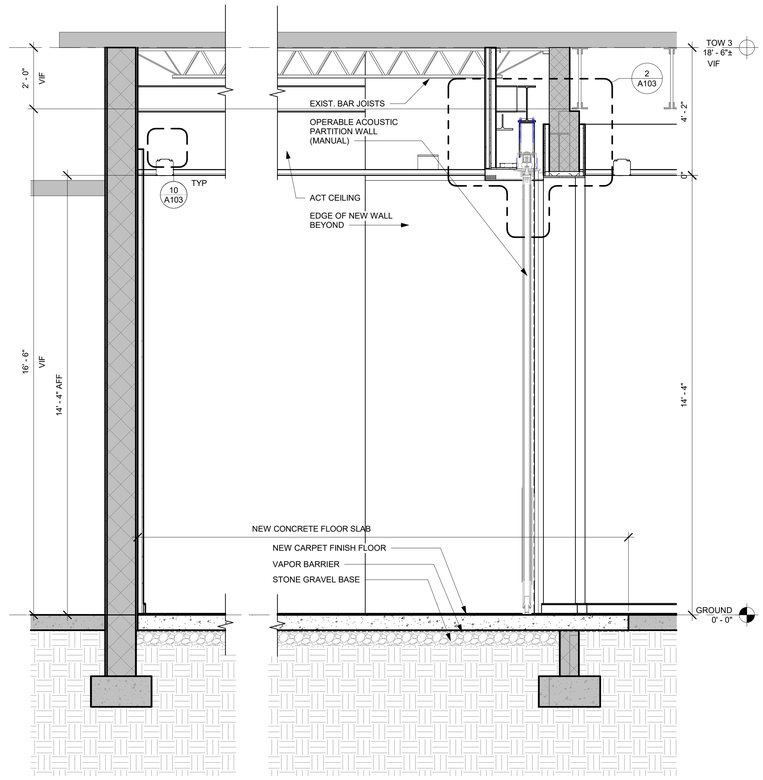
DEMO PLAN, NEW WORK PLAN, & RCP

A102

PATH & FILENAME: Autodesk Docs://Campus for Student Success/Arch_CampusforStudentSuccess_R24.rvt
PLOTTING DATE & TIME: 10/2/2025 4:21:17 PM

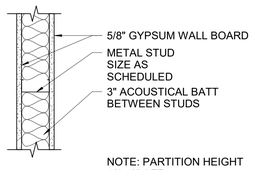






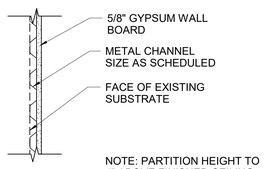
1 A103 SECTION DETAIL - FOLDING PANEL PARTITION PANEL

1 1/2" = 1'-0"



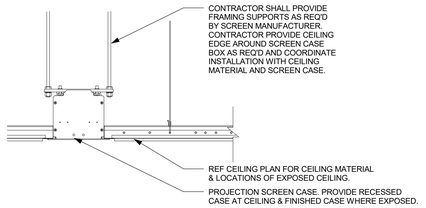
NOTE: PARTITION HEIGHT 18' - 6" AFF

PARTITION - S1						
					DETAILS	
TYPE	CORE SIZE	ACTUAL WIDTH	UL FIRE TEST	STC	TOP	BOTTOM
S1C	3 5/8"	0' - 4 7/8"	NA	60 MIN		
S1D	6"	0' - 7 1/4"	NA	NA		



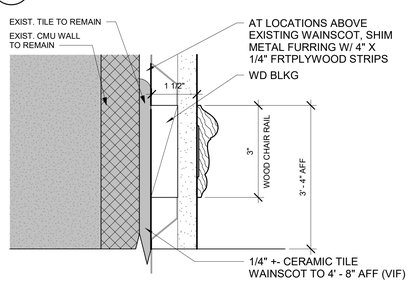
NOTE: PARTITION HEIGHT TO 4" ABOVE FINISHED CEILING

PARTITION - S2						
					DETAILS	
TYPE	CORE SIZE	ACTUAL WIDTH	UL FIRE TEST	STC	TOP	BOTTOM
S2A	1 5/8"	0' - 2 1/4"	NA	NA		
S2A1	7/8"	0' - 1 1/2"	NA	NA	CONTINUES 8" ABOVE SACT	
S2C	1 5/8"	0' - 4 1/4"	NA	NA		



10 A103 PROJECTOR SCREEN DETAIL

1 1/2" = 1'-0"

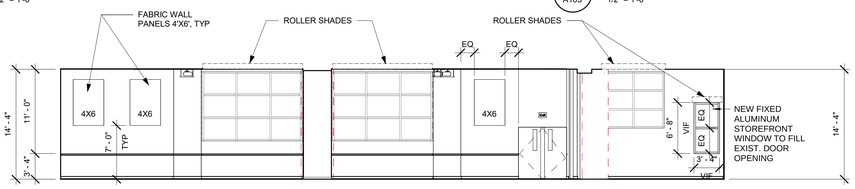


11 A103 CHAIR RAIL DETAIL

6" = 1'-0"

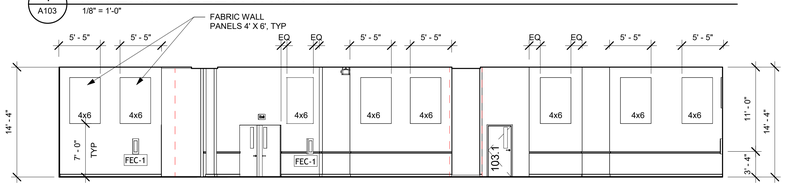
2 A103 OPERABLE PARTITION DETAIL

1 1/2" = 1'-0"



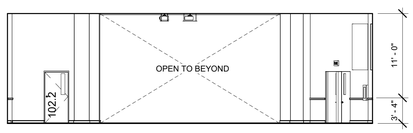
4 A103 INTERIOR ELEVATION - NORTH

1/8" = 1'-0"



6 A103 INTERIOR ELEVATION - SOUTH

1/8" = 1'-0"

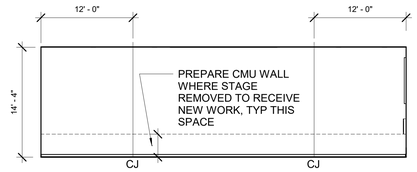


8 A103 MULTIPURPOSE ROOM 2 - EAST

1/8" = 1'-0"

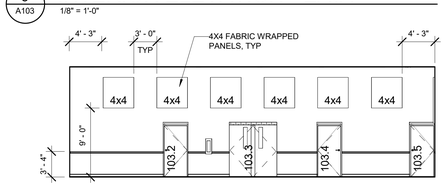
3 A103 WALL SECTION

1/2" = 1'-0"



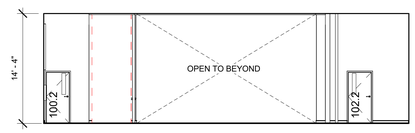
5 A103 INTERIOR ELEVATION - EAST

1/8" = 1'-0"



7 A103 INTERIOR ELEVATION - WEST

1/8" = 1'-0"



9 A103 MULTIPURPOSE ROOM 3 - WEST

1/8" = 1'-0"

QUINN EVANS
1840 WEST BROAD STREET
SUITE 400
RICHMOND, VA 23220
v 804.788.4774
QUINNEVANS.COM

COMMONWEALTH OF VIRGINIA
CHARLES W. TILLEY
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10/03/2025
ARCHITECT

CAMPUS FOR STUDENT SUCCESS - MULTIPURPOSE ROOM
NEWPORT NEWS PUBLIC SCHOOLS

746 ADAMS DRIVE, NEWPORT NEWS, VIRGINIA 23601

No.	Date	Description

PROJECT MANAGER: CT
DRAWN BY: MN

ISSUED FOR BID: IFB #011-0-2026/SB
QEA No.Project Number 52406380

ISSUED FOR BID
OCTOBER 1, 2025

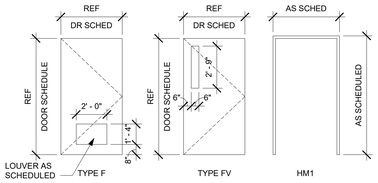
WALL SECTION, DETAILS, & INTERIOR ELEVATIONS

A103

PATH & FILENAME: Autodesk Docs://Campus for Student Success/Arch_CampusforStudentSuccess_R24.rvt
PLOTTING DATE & TIME: 10/2/2025 5:23:47 PM

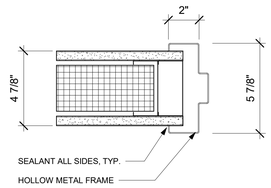
LOCATION		DOOR						DOOR	FRAME						DOOR	FIRE	
DOOR NUMBER	LOCATION	SIZE			TYPE	MAT'L	GLAZING	FINISH	TYPE	MAT'L	FINISH	DETAILS			HDWE	RATING	NOTES
		W	H	T								HEAD	JAMB	SILL			
GROUND																	
100.1	CORRIDOR	6' - 0"	6' - 8"	0' - 1 3/4"	FV	WD	GL-1	PREFIN	EXIST.	HM	PTD.	5/A105	2/A105		3	20 MIN	NEW DOORS IN EXISTING FRAMES; VIF
100.2	CORRIDOR	3' - 0"	6' - 8"	0' - 1 3/4"	FV	WD	GL-1	PREFIN	NEW	HM	PTD.	4/A105	1/A105		4	20 MIN	NEW DOORS IN EXISTING FRAMES; VIF
102.1	MULTIPURPOSE ROOM 2	6' - 0"	6' - 8"	0' - 1 3/4"	FV	HM	GL-2	PTD	EXIST.	HM	PTD.	6/A105	6/A105		2	-	
102.2	MULTIPURPOSE ROOM 2	3' - 0"	6' - 8"	0' - 1 3/4"	FV	WD	GL-1	PREFIN	NEW	HM	PTD.	5/A105 SIM	2/A105		4	-	
103.1	CORRIDOR	3' - 0"	6' - 8"	0' - 1 3/4"	FV	WD	GL-1	PREFIN	NEW	HM	PTD.	4/A105	1/A105		4	20 MIN	
103.2	AV/IT	3' - 0"	6' - 8"	0' - 1 3/4"	F	WD	-	PREFIN	EXIST.	HM	PTD.	6/A105	3/A105		1	-	PROVIDE DOOR LOUVER WITH 1-FT SQ OF FREE AREA
103.3	CORRIDOR	6' - 0"	6' - 8"	0' - 1 3/4"	FV	WD	GL-1	PREFIN	EXIST.	HM	PTD.	6/A105	3/A105		3	20 MIN	NEW DOORS IN EXISTING FRAMES, VIF
103.4	STORAGE	3' - 0"	6' - 8"	0' - 1 3/4"	F	WD	-	PREFIN	EXIST.	HM	PTD.	6/A105	3/A105		1	-	PROVIDE DOOR LOUVER WITH 1-FT SQ OF FREE AREA
103.5	STORAGE	3' - 0"	6' - 8"	0' - 1 3/4"	F	WD	-	PREFIN	EXIST.	HM	PTD.	6/A105	3/A105		1	-	PROVIDE DOOR LOUVER WITH 1-FT SQ OF FREE AREA
Grand total: 9																	

DOOR AND FRAME TYPES

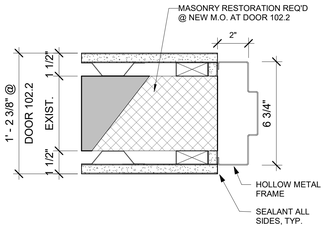


GLAZING TYPES

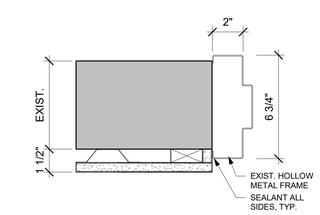
MARK	DESCRIPTION
GL-1	1/4" CLEAR, TEMEPERED. RATED WHERE REQUIRED
GL-2	1" CLEAR, INSULATED GLASS TINTED TO MATCH EXISTING



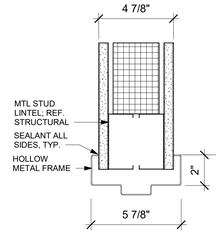
1 A104 JAMB DETAIL
3" = 1'-0"



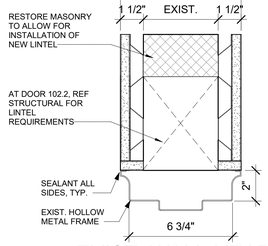
2 A104 WALL JAMB DETAIL
3" = 1'-0"



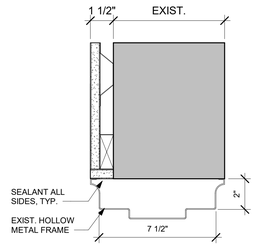
3 A104 EXIST. WALL JAMB DETAIL SINGLE
3" = 1'-0"



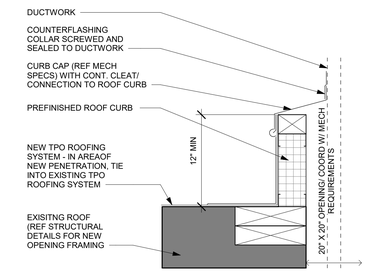
4 A104 GWB ASSEMBLY HEAD DETAIL
3" = 1'-0"



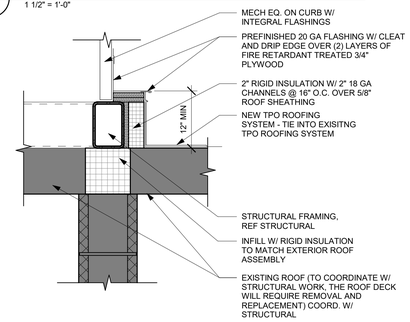
5 A104 EXIST. WALL HEAD DETAIL
3" = 1'-0"

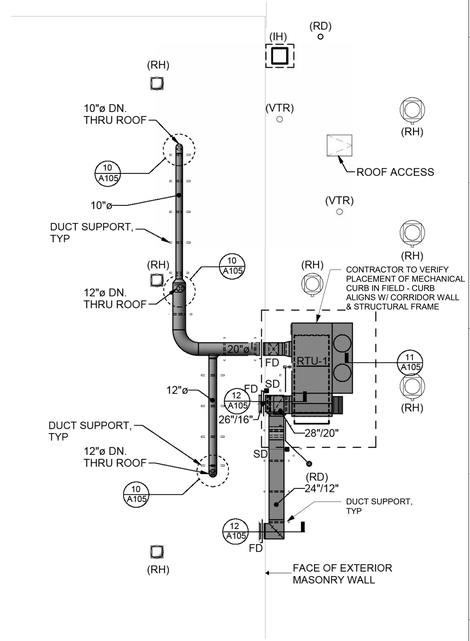


6 A104 EXIST. WALL HEAD DETAIL SINGLE
3" = 1'-0"



10 A104 ROOF DETAIL - DUCTWORK
1 1/2" = 1'-0"

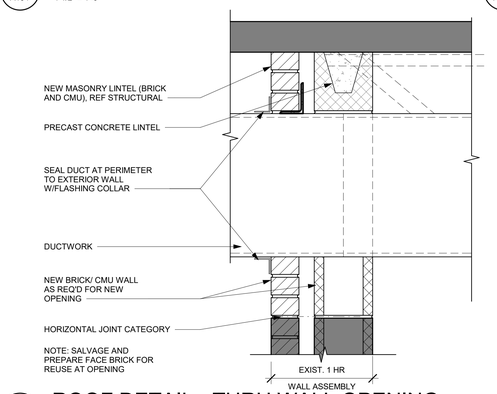




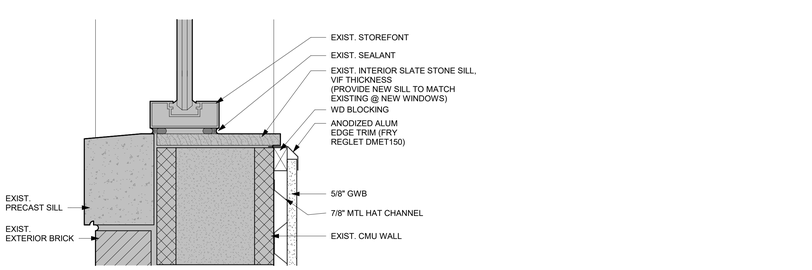
11 A104 ROOF DETAIL - MECH EQUIP CURB
1 1/2" = 1'-0"

F11 A104 ROOF PLAN DIAGRAM
12" = 1'-0"

NOTE: REFERENCE RELIEF HOOD DEMOLITION ON MECHANICAL DRAWINGS. COORDINATE ANY NEW ROOF MEMBRANE PATCHING AS REQUIRED

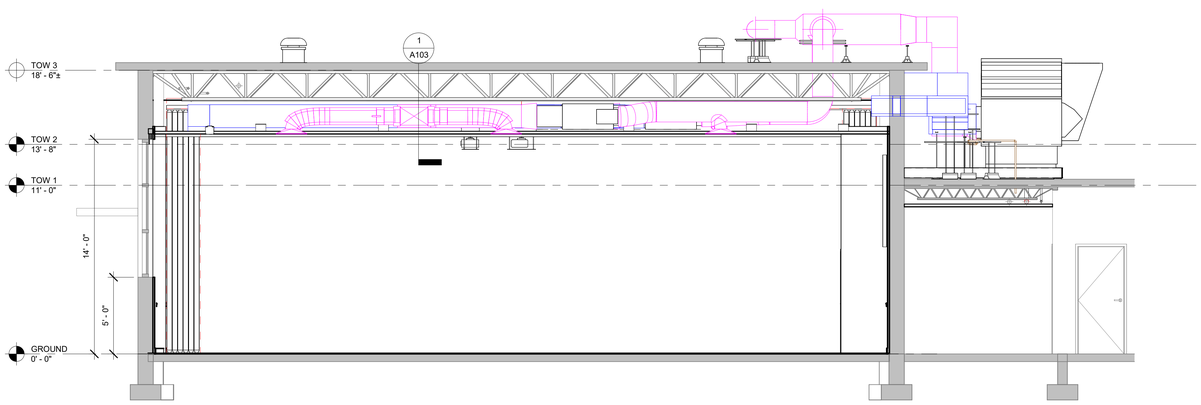


12 A104 ROOF DETAIL - THRU WALL OPENING
1 1/2" = 1'-0"



7 A104 SF WINDOW JAMB DETAIL (HEAD/SILL SIM)
3" = 1'-0" REFERRED FROM:A102
VEFIFY EXISTING CONDITIONS IN THE FIELD

8 A104 EXIST. WINDOW SILL DETAIL
3" = 1'-0" REFERRED FROM:A102



9 A104 HVAC SECTION AT ROOF
1/4" = 1'-0"

QUINN EVANS
1840 WEST BROAD STREET
SUITE 400
RICHMOND, VA 23220
v 804.788.4774
QUINNEVANS.COM

COMMONWEALTH OF VIRGINIA
CHARLES W. TILLEY
LIC. No. 010767
10/03/2025
ARCHITECT

CAMPUS FOR STUDENT SUCCESS - MULTIPURPOSE ROOM
NEWPORT NEWS PUBLIC SCHOOLS

746 ADAMS DRIVE, NEWPORT NEWS, VIRGINIA 23601

No.	Date	Description

PROJECT MANAGER: CT
DRAWN BY: MN

ISSUED FOR BID: IFB #011-0-2026/SB
QEA No.Project Number 52406380

ISSUED FOR BID
OCTOBER 1, 2025

DOOR SCHEDULE AND DETAILS/ ROOF DETAILS

A104

PATH & FILENAME: Autodesk Docs://Campus for Student Success/Arch_CampusforStudentSuccess_R24.rvt
PLOTTING DATE & TIME: 10/2/2025 4:21:22 PM

GENERAL STRUCTURAL NOTES

GENERAL/BUILDING CODE

GBC-1: ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE ***2021 VIRGINIA UNIFORM STATEWIDE BUILDING CODE (VUSBC), EFFECTIVE JANUARY 18, 2024.***

A. RENOVATION/ ALTERATION - ***PART II OF THE VUSBC - "VIRGINIA EXISTING BUILDING CODE"***

1. CLASSIFICATION OF WORK FOR THIS PROJECT = ALTERATION-LEVEL 2

GBC-2: NO LOADS IN EXCESS OF THE DESIGN LIVE LOADS LISTED SHALL BE IMPOSED UPON ANY AREA DURING CONSTRUCTION, UNLESS ADEQUATE SHORING OR OTHER MEANS IS PROVIDED TO SUPPORT THE EXCESSIVE LOADS.

GBC-3: IF ANY CHANGES ARE MADE IN WEIGHT AND/OR LOCATION OF POINTS OF SUPPORT OF EQUIPMENT, THE CONTRACTOR SHALL FURNISH DETAILS OF CHANGES TO THE ARCHITECT FOR REVIEW AND NECESSARY MODIFICATIONS.

GBC-4: TEMPORARY BRACING, GUY WIRES, SHORING, ETC., SHALL BE USED AS NECESSARY TO RESIST ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED DURING CONSTRUCTION, INCLUDING EQUIPMENT AND ITS OPERATION.

GBC-5: THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. THE ERECTION PROCEDURE AND SEQUENCE INCLUDING THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

GBC-6: STRUCTURAL DRAWINGS DO NOT SHOW ALL OPENINGS, COORDINATE WITH MECHANICAL DRAWINGS. VERIFY SIZES AND LOCATIONS OF ALL OPENINGS WITH MECHANICAL.

GBC-7: REFER TO ARCHITECTURAL DRAWINGS FOR WATERPROOFING DETAILS.

GBC-8: THE ENGINEER SHALL NOT HAVE THE AUTHORITY OR RESPONSIBILITY TO SUPERVISE OR DIRECT THE CONSTRUCTION WORK.

GBC-9: ALL SECTIONS AND DETAILS, WHETHER EXPLICITLY CUT ON PLAN OR NOT, SHALL BE CONSIDERED TYPICAL AND SHALL APPLY AT SIMILAR CONDITIONS.

GBC-10: ADDITIONS AND ALTERATIONS TO THE EXISTING BUILDING DO NOT INCREASE THE DEMAND/CAPACITY RATIO OF ANY EXISTING STRUCTURAL LATERAL FORCE RESISTING ELEMENT BY MORE THAN 10%; THEREFORE, AN ENGINEERING EVALUATION AND ANALYSIS OF THE ALTERED EXISTING STRUCTURE IS NOT REQUIRED.

GBC-11: ASCE 7-22 HAS BEEN INCORPORATED IN ITS ENTIRETY BY THE VUSBC. ALL LOADS STATED WITHIN THESE GENERAL STRUCTURAL NOTES CONFORM TO ASCE 7-22 EDITION.

EXISTING CONSTRUCTION

EC-1: INFORMATION REGARDING STRUCTURAL MEMBERS INDICATED TO BE EXISTING WAS OBTAINED DURING LIMITED FIELD OBSERVATIONS AND FROM LIMITED AVAILABLE EXISTING DRAWINGS. ACTUAL CONDITIONS MAY DIFFER FROM THAT WHICH IS INDICATED. IF THE CONTRACTOR UNCOVERS EXISTING CONDITIONS THAT DIFFER FROM THAT WHICH IS INDICATED ON PLAN, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD OF THE DISCREPANCY IN ORDER THAT THE CONDITION MAY BE RESOLVED.

EC-2: FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO THE CONSTRUCTION AND FABRICATION OF ANY NEW STRUCTURAL MEMBERS. AT ALL LOCATIONS WHERE NEW ROOFS AND FLOORS ADJOIN EXISTING ROOFS AND FLOORS, EMPLOY A LICENSED SURVEYOR TO VERIFY EXISTING DIMENSIONS, FLOOR ELEVATIONS, AND FLOOR-TO-FLOOR HEIGHTS BEFORE ORDERING, DETAILING, FABRICATING, OR ERECTING ANY NEW STRUCTURAL MEMBERS.

EC-3: EXISTING CONSTRUCTION IS DENOTED USING SLANTED LETTERING, PHANTOM LINETYPE (DASH DOUBLE DOT), AND HALFTONE.

SPECIAL INSPECTIONS

SI-1: SPECIAL INSPECTIONS ARE REQUIRED BY THE BUILDING CODE (CHAPTER 17). REFER TO SECTION 014000 OF THE SPECIFICATIONS FOR THE GENERAL INSPECTION REQUIREMENTS. THE FOLLOWING IS A LIST OF ITEMS THAT REQUIRE SPECIAL INSPECTION. REFER TO THE REFERENCED SPECIFICATION SECTION FOR THE SPECIFIC REQUIREMENTS FOR EACH ITEM. THE INDEPENDENT INSPECTION AGENCY, ENGAGED BY THE OWNER, SHALL REVIEW THE TEST PROCEDURES AND INSPECTIONS WITH THE STRUCTURAL ENGINEER OF RECORD, THE GENERAL CONTRACTOR, AND THE OWNER PRIOR TO CONDUCTING TESTS AND INSPECTIONS.

A. STRUCTURAL STEEL FRAMING SECTION 051200

SHOP DRAWING SUBMITTALS

SDS-1: THE CONTRACTOR SHALL COORDINATE THE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL REQUIREMENTS WITH THE STRUCTURAL DRAWINGS, INCLUDING THE LOCATION OF MISCELLANEOUS ITEMS AFFECTING THE STRUCTURAL WORK SUCH AS OPENINGS, BENT PLATES, INSERTS, ETC. PROMPTLY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR OMISSIONS.

SDS-2: THE CONTRACTOR SHALL VERIFY ALL FLOOR AND ROOF MOUNTED MECHANICAL EQUIPMENT DIMENSIONS AND WEIGHTS, AND VERIFY ALL ROOF OPENING SIZES AND LOCATIONS, WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND REVIEWED SHOP DRAWINGS.

SDS-3: REFER TO PROJECT MANUAL FOR SUBMITTAL REQUIREMENTS. IN THE ABSENCE OF A PROJECT MANUAL, PROVIDE (1) ELECTRONIC PDF COPY OF ALL STRUCTURAL SUBMITTALS.

SDS-4: SHOP DRAWINGS ARE TO BE REVIEWED BY THE CONTRACTOR AND SUBCONTRACTOR PRIOR TO BEING SUBMITTED FOR APPROVAL. SUBMITTED SHEETS SHALL CONTAIN THE CONTRACTOR'S SIGNED AND DATED REVIEW STAMP.

TEMPORARY SHORING/ BRACING SUBMITTAL

SH-1: DESIGN AND PROVIDE TEMPORARY SHORING, BRACING, AND STRUCTURAL SUPPORTS AS REQUIRED TO PRESERVE STABILITY AND PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF CONSTRUCTION AND FINISHES TO REMAIN, AND TO PREVENT UNEXPECTED OR UNCONTROLLED MOVEMENT OR COLLAPSE OF CONSTRUCTION BEING DEMOLISHED. SHORING MEMBERS SUPPORTING CONSTRUCTION TO REMAIN SHALL BE DESIGNED TO L/480 DEFLECTION CRITERIA FOR TOTAL LOAD SUPPORTED. THIS SUBMITTAL SHALL INCLUDE ANALYSIS DATA SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER, REGISTERED IN THE JURISDICTION OF THE PROJECT, RESPONSIBLE FOR THEIR PREPARATION.

SHOP DRAWING SUBMITTALS

SDS-1: THE CONTRACTOR SHALL COORDINATE THE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL REQUIREMENTS WITH THE STRUCTURAL DRAWINGS, INCLUDING THE LOCATION OF MISCELLANEOUS ITEMS AFFECTING THE STRUCTURAL WORK SUCH AS OPENINGS, BENT PLATES, INSERTS, ETC. PROMPTLY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR OMISSIONS.

SDS-2: THE CONTRACTOR SHALL VERIFY ALL FLOOR AND ROOF MOUNTED MECHANICAL EQUIPMENT DIMENSIONS AND WEIGHTS, AND VERIFY ALL ROOF OPENING SIZES AND LOCATIONS, WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND REVIEWED SHOP DRAWINGS.

SDS-3: REFER TO PROJECT MANUAL FOR SUBMITTAL REQUIREMENTS. IN THE ABSENCE OF A PROJECT MANUAL, PROVIDE (1) ELECTRONIC PDF COPY OF ALL STRUCTURAL SUBMITTALS.

SDS-4: SHOP DRAWINGS ARE TO BE REVIEWED BY THE CONTRACTOR AND SUBCONTRACTOR PRIOR TO BEING SUBMITTED FOR APPROVAL. SUBMITTED SHEETS SHALL CONTAIN THE CONTRACTOR'S SIGNED AND DATED REVIEW STAMP.

DESIGN LOADS AND PARAMETERS

DL-1: THE FOLLOWING DESIGN LOADS APPLY TO FRAMING MEMBERS IMPACTED BY THE SCOPE OF WORK ONLY IF THE REMAINDER OF THE EXISTINGHAS NOT BEEN ANALYZED.

DL-2: BUILDING RISK CATEGORY (TABLE 1604.5) = CATEGORY II

DL-3: LIVE LOADS (REFER TO FRAMING PLANS FOR MORE SPECIFIC LOADS)

ROOF 20 PSF

ROOF LIVE LOAD REDUCTION (BY EQ 16-26 OR NOT USED)

DL-3: CONCENTRATED LIVE LOADS (OVER 2.5'X2.5' AREA):

300 POUNDS - ROOFS

DL-4: SNOW LOADS

RISK CATEGORY II
P_g=42 PSF (GROUND SNOW)
$P_{m,max}$ = 35 PSF (TABLE 7.3-4)
C_e=1.0 (SNOW EXPOSURE FACTOR)
C_t=1.0 (THERMAL FACTOR)
P_f (SNOW LOAD FOR LOW-SLOPE ROOF)=0.7X(C_e)X(C_t)X(P_g) = 0.7X1.0X1.0X42 = 29.4 PSF
RAIN-ON-SNOW SURCHARGE (LOW-SLOPE ROOFS ONLY WHERE $P_g \leq$ 35 PSF)= 8.0 PSF
TOTAL (LOW-SLOPE ROOF) = ?? ? PSF + 8.0 PSF = ?? ? PSF
MINIMUM P_m (LOW-SLOPE ROOF WHERE $P_g \leq P_{m,max}$) = P_g = ?? PSF
MINIMUM P_m (LOW-SLOPE ROOF WHERE $P_g > P_{m,max}$) = $P_{m,max}$ = ?? PSF
USE ?? PSF LOW-SCOPE ROOF SNOW LOAD
P_s=(C_s)X(P_f) (SLOPED ROOF SNOW LOAD) = (??)X35.0 = ?? PSF

SNOW LOAD DETERMINATION BY: ASCE 7-22 CHAPTER 7 (STRENGTH- LEVEL LOADS)

DL-5: WIND LOADS

V = 127 MPH (BUILDING RISK CATEGORY: II) (BASIC WIND SPEED: 3-SECOND GUST)
V_{asd} = 98 MPH
EXPOSURE C
K_d=0.85 (WIND DIRECTIONALITY FACTOR)
K_{zt}=1.0 (TOPOGRAPHIC FACTOR)
K_h=1.0 (GROUND ELEVATION FACTOR)
GC_{pi}=±0.18 (ENCLOSED BUILDING OR PARTIALLY OPEN BUILDING)
GC_{pi}=±0.55 (PARTIALLY ENCLOSED BUILDING)

WIND LOAD DETERMINATION BY: ASCE 7-22, CHAPTERS 26, 27, 29, 30 (DIRECTIONAL PROCEDURE)

DL-6: SEISMIC LOADS

I_e=1.0 (ASCE 7-22 TABLE 1.5-2)
SEISMIC SITE CLASS = D (DEFAULT)

S_s=12.0%g S_{ms}=16.0%g
S_1=4.1%g S_{m1}=8.8%g
S_{ds}=(2/3)X(S_{ms}) = 11.0%g
S_{d1}=(2/3)X(S_{m1}) =5.8%g

SEISMIC DESIGN CATEGORY = A

ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE METHOD
STRUCTURAL HEIGHT, h_n = 18.5 FT
FUNDAMENTAL PERIOD, T = 8 SEC
SEISMIC RESPONSE COEFFICIENT, C_s = 0.01

DL-8: ICE LOADS

ICE DENSITY= 56 pcf (ASCE 7-22, SECTION 10.4)
t=0.60" (NOMINAL ICE THICKNESS AT 33' HT, ASCE 7-22 Fig 10.4-2)
CONCURRENT TEMPERATURE = 15 DEGREES F
GUST SPEED = 30 MPH
Z=30' (HT ABOVE GROUND)
f_z=(Z/33)$^{0.10}$ (HT FACTOR, ASCE 7-22 EQ 10.4-4) = (18.5/33)$^{0.10}$ = 0.94
K_{zt}=1.0 (TOPOGRAPHIC FACTOR, ASCE 7-22 CH. 26)
t_d=[(t)(f_z)(K_{zt})]$^{0.35}$ (DESIGN ICE THICKNESS, ASCE 7-22 EQ 10.4-5) = (0.60") (1.0) (0.94) (1.0)$^{0.35}$ = 0.566"
WEIGHT OF ICE = 0.60"/12 X 56 PCF = 33.6 PSF SURFACE AREA

STRUCTURAL STEEL

SS-1: ALL STRUCTURAL STEEL AND ARCHITECTURALLY EXPOSED STRUCTURAL STEEL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC 360-16 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS". BOLTED CONNECTIONS SHALL BE FULLY PRETENSIONED UNLESS NOTED OTHERWISE ON PLAN. REFER TO DRAWINGS FOR CONNECTIONS. IF CONNECTIONS ARE NOT SHOWN, FABRICATOR SHALL DESIGN CONNECTIONS FOR BEAM UNIFORMLY LOADED TO CAPACITY.

- ASTM A992 (W-SHAPES, WT-SHAPES AND CHANNELS) F_y = 50 KSI
- ASTM A500 GRADE C (SQUARE AND RECTANGULAR HSS SHAPES) F_y = 50 KSI
- ASTM A572 GRADE 50 (ANGLES AND PLATE) F_y = 50 KSI
- ASTM A36 (OTHER ROLLED STRUCTURAL SHAPES NOT INDICATED ABOVE) F_y = 36 KSI
- E70XX (SMAW PROCESS WELDING)
- ASTM F3125 GRADE A325-N (BOLTS)
- ASTM F3125 GRADE A490-N (BOLTS)
- ASTM F3125 GRADE F1852 (TENSION-CONTROL BOLTS A325 EQUIVALENT)
- ASTM F3125 GRADE F2280 (TENSION-CONTROL BOLTS A490 EQUIVALENT)
- ASTM A563 (HEAVY HEX NUT)
- ASTM F436 (HARDENED STEEL WASHER)
- ASTM A108 GRADE B (HEADED SHEAR STUDS)

SS-2: UNLESS NOTED OTHERWISE, BOLT SIZES INDICATED FOR CONNECTIONS ON PLANS, SECTIONS, AND DETAILS SHALL BE OF THE FOLLOWING GRADE AND TYPE.
- 3/4" DIAMETER = ASTM F3125 GRADE F1852 (TENSION-CONTROL)
- 1" DIAMETER = ASTM F3125 GRADE F2280 (TENSION-CONTROL)
- 1 1/4" DIAMETER = ASTM F3125 GRADE F2280 (TENSION-CONTROL)

SS-3: DETAILING AND ERECTION OF STRUCTURAL STEEL SHALL COMPLY WITH CURRENT OSHA STANDARDS FOR THE CONSTRUCTION INDUSTRY-SUBPART R - STEEL ERECTION.

SS-4: CONTRACTOR SHALL PROVIDE FIELD CURED SAMPLES OF CAST-IN-PLACE CONCRETE IN FOOTINGS, PIERS, AND WALLS AND PRISMS OF MASONRY PIERS AND WALLS IN ACCORDANCE WITH OSHA SECTION 1926.752 TO DETERMINE THAT CONCRETE AND MASONRY HAVE ACHIEVED A MINIMUM OF 75% OF DESIGN STRENGTH PRIOR TO THE COMMENCEMENT OF STEEL ERECTION.

SS-5: WHERE SLIP-CRITICAL CONNECTIONS OR FULLY PRETENSIONED BOLTS ARE REQUIRED, USE TENSION CONTROL BOLTS (TWIST-OFF STYLE).

SS-6: ALL FIELD WELDING TO EXISTING STRUCTURAL STEEL SHALL COMPLY WITH AISC AND AWS D1.1 FOR WELDING PROCEDURES TO EXISTING STEEL. EXISTING STEEL SHALL BE PROPERLY PRE-HEATED AND ALLOWED TO COOL DOWN BETWEEN PASSES TO LIMIT STEEL BEAM DISTORTION. ALL UNDERCUTS, NOTCHES, AND GOUGES SHALL BE FILLED AND GROUND OUT. ALL EXISTING STEEL SHALL BE CLEANED TO REMOVE ALL RUST, FIREPROOFING, PAINT OR CONTAMINANTS TO EXPOSE BARE METALS FOR A DISTANCE OF 2 INCHES FROM EACH SIDE OF WELD. EXISTING STEEL BEAMS SHALL BE TEMPORARILY SHORED AS REQUIRED DURING FIELD WELDING PROCESS.

STRUCTURAL MASONRY

M-1: ALL MASONRY WORK SHALL CONFORM TO THE REQUIREMENTS OF TMS 402/602-16 "BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES."

- ASTM C476 (GROUT) - 2000 PSI MINIMUM COMPRESSIVE STRENGTH

M-2: GROUT SLUMP SHALL BE 8" TO 11". PLACE GROUT PER TMS 602 SECTION 3.5 AND CONSOLIDATE BY VIBRATION. RECONSOLIDATE BY VIBRATION AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED.

M-3: AFTER STEEL ERECTION IS COMPLETE, FILL ALL POCKETS AT BEARING OF JOISTS AND BEAMS SOLID WITH MASONRY. BUILD TIGHT TO STEEL MEMBER.

POST-INSTALLED ANCHORS

PA-1: ALL POST-INSTALLED ANCHORS (IN CONCRETE OR CMU) ARE TO BE INSTALLED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS (INCLUDING BUT NOT LIMITED TO DRILL BIT SIZE, PROPER CLEANING OF HOLES, INSTALLATION TORQUE, AND TEMPERATURE CONSTRAINTS).

PA-2: WHEN A SPECIFIC PRODUCT AND MANUFACTURER IS REFERENCED IN THE CONTRACT DOCUMENTS, THAT SPECIFIC PRODUCT SHALL BE USED UNLESS AN ALTERNATE PRODUCT IS APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CODE COMPLIANT STRENGTH DESIGN CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC - ES REPORT SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE.

PA-3: THE ANCHOR MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT DURING THE INITIAL INSTALLATION OF EACH TYPE OF ANCHOR TO REVIEW AND APPROVE OF THE CONTRACTOR'S INSTALLATION PROCEDURES. THE OWNER'S TESTING AGENCY SHALL ALSO OBSERVE THE INITIAL INSTALLATION OF EACH ANCHOR TYPE, AND PROVIDE THE INSPECTION OF ANCHORS DURING INSTALLATION TO VERIFY CONFORMANCE WITH THE MANUFACTURER'S INSTALLATION RECOMMENDATIONS. SUBMIT REPORT FROM MANUFACTURER'S REPRESENTATIVE FOR DUNBAR REVIEW. INSTALLATION OF ALL HORIZONTAL OR UPWARDLY INCLINED ADHESIVE ANCHORS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM OR APPROVED EQUIVALENT. SUBMIT CREDENTIALS OF CERTIFIED INSTALLERS. CONTINUOUS INSPECTION IS REQUIRED FOR ALL HORIZONTAL OR UPWARDLY INCLINED ADHESIVE ANCHORS. REMOVE AND REPLACE MISPLACED OR MALFUNCTIONING ANCHORS. FILL EMPTY ANCHOR HOLES AND PATCH FAILED ANCHOR LOCATIONS WITH HIGH-STRENGTH, NONMETALLIC GROUT.

PA-4: FASTENERS REFERRED TO AS "SCREW ANCHOR" ON THE DRAWINGS SHALL BE ONE OF:

- TITEN HD BY SIMPSON STRONG-TIE
- KWIK HUS-EZ (KH-EZ) BY HILTI
- SCREW-BOLT+ BY DEWALT

FOR THESE SCREW ANCHORS LISTED, USE STANDARD ANSI DRILL BIT (NO SPECIAL BIT REQUIRED). PROVIDE HOLES IN STEEL MEMBERS 1/8" LARGER THAN NOMINAL DIAMETER OF ANCHOR. PROVIDE STD ZINC-PLATED CARBON STEEL ANCHOR UNLESS MECHANICAL GALVANIZED FINISH OR STAINLESS STEEL ANCHOR IS INDICATED ON DRAWINGS.

PA-5: CHEMICAL ADHESIVE ANCHORING SYSTEMS USED IN HOLLOW MASONRY GENERICALLY REFERRED TO AS ADHESIVE ANCHORING SYSTEMS SHALL BE ONE OF:

- HIT-HY 270 BY HILTI
- SET-3G SYSTEM BY SIMPSON STRONG-TIE
- AC100+ GOLD BY DEWALT

USE SCREEN TUBES BY THE SAME MANUFACTURER WHEN USING THESE ADHESIVES IN MASONRY WITH VOIDS OR HOLLOW CMU. INSTALL USING DRILL IN ROTATION-ONLY MODE TO KEEP FROM DAMAGING INSIDE OF FACE SHELL.

PA-6: CHEMICAL ADHESIVE ANCHORING SYSTEMS USED IN SOLID OR GROUTED MASONRY GENERICALLY REFERRED TO AS ADHESIVE ANCHORING SYSTEMS SHALL BE ONE OF:

1. SET-3G BY SIMPSON STRONG TIE
2. HIT-HY 270 BY HILTI
3. AC100+ GOLD BY DEWALT

PA-7: CHEMICAL ADHESIVE ANCHORING SYSTEMS USED IN CONCRETE GENERICALLY REFERRED TO AS "ADHESIVE ANCHORS" SHALL BE ONE OF :

- SET - 3G BY SIMPSON STRONG-TIE
- HIT-RE 500-V3 BY HILTI
- HIT-HY 200-V3 BY HILTI
- PURE 220+ BY DEWALT
- AC 200+ BY DEWALT
- KWIK-X BY HILTI

THREADED ROD ANCHORS USED WITH THESE SYSTEMS SHALL BE PROVIDED BY THE ADHESIVE MANUFACTURER AND HAVE A MINIMUM STEEL STRENGTH OF F_y = 36 KSI UNLESS NOTED OTHERWISE.

PA-8: CHEMICAL ADHESIVE ANCHOR SYSTEMS FOR USE WITH REINF STEEL IN CONCRETE SHALL BE ONE OF:

- SET-3G BY SIMPSON STRONG-TIE
- HIT-RE 500-V3 BY HILTI
- PURE 220+ BY DEWALT
- HIT-FP 700R BY HILTI (AT FIRE-RATED CONSTRUCTION ONLY)

UNLESS NOTED OTHERWISE, REINFORCING STEEL USED WITH THESE SYSTEMS SHALL BE ASTM A615 GRADE 60.

PA-9: FASTENERS GENERICALLY REFERRED TO AS "CONCRETE/MASONRY SCREWS" SHALL BE ONE OF:

1. TITEN TURBO BY SIMPSON STRONG-TIE
2. KWIK-CON II+ BY HILTI
3. ULTRACON+ BY DEWALT

PA-10: ANCHORS OR REINFORCING STEEL SHALL BE INSTALLED ONLY IN DRY CONCRETE A MINIMUM OF 21 DAYS OLD. DRILL AND INSTALL BY ONE OF THE FOLLOWING METHODS:

- USE ONLY A CARBIDE BIT (NO CORE DRILLING) AND CLEAN HOLE FOLLOWING MANUFACTURER'S INSTRUCTIONS USING AIR COMPRESSOR WITH NOZZLE AND WIRE BRUSH PROVIDED BY ADHESIVE MANUFACTURER.
- USE HOLLOW DRILL BIT SYSTEM WITH ACCOMPANYING VACUUM PROVIDED BY THE ADHESIVE MANUFACTURER.

FOR ADHESIVE ANCHORS, OVERHEAD HOLES AND ANY HOLES GREATER THAN 10 INCHES DEEP REQUIRE THE USE OF A PISTON PLUG AT THE END OF THE ADHESIVE APPLICATOR. USE ADHESIVE RETAINING CAP AT OVERHEAD CONDITIONS.

ADHESIVE ANCHORS RANGING IN ORIENTATION FROM HORIZONTAL TO VERTICALLY OVERHEAD SHALL BE INSTALLED BY AN ADHESIVE ANCHOR INSTALLER (AAI) WHO IS CERTIFIED THROUGH ACI/CRSI (ACI 318-19 SECTION 17.2.3). SUBMIT CURRENT CERTIFICATION TO THE ARCHITECT FOR REVIEW PRIOR TO COMMENCEMENT OF INSTALLATION.

PA-11: OTHER MANUFACTURER'S PRODUCTS MAY BE SUBMITTED AS A FORMAL REQUEST FOR SUBSTITUTION IF REQUIREMENTS ABOVE ARE MET. SIZES AND EMBEDMENTS OF SUBSTITUTE ANCHORS SHALL BE INCREASED AS NECESSARY TO ACHIEVE SHEAR AND TENSION VALUES PUBLISHED FOR LISTED ANCHORS. CONTRACTOR SHALL SUBMIT A COMPLETE SUBSTITUTION LIST FOR ALL ANCHOR SIZES AND SUBSTRATES. DUE TO HIGH VARIABILITY BETWEEN NOMINAL SIZES AND ACTUAL SIZES OF SCREW ANCHORS (AND HOLES REQUIRED), THIS SUBSTITUTION REQUEST SHALL BE SUBMITTED PRIOR TO STEEL SHOP DRAWINGS. ANY PRODUCTS SUBMITTED AS A REQUEST FOR SUBSTITUTION IN CONCRETE SHALL BE COMPLIANT WITH ACI 318-14 CHAPTER 17 AND APPROVED FOR USE IN CRACKED CONCRETE. PROPOSED SUBSTITUTE PRODUCTS SHALL HAVE AN ICC-ES REPORT WHICH CONSIDERS EQUIVALENT EDGE AND SPACING REQUIREMENTS AS THE SPECIFIED PRODUCTS.

FOUNDATIONS

F-1: FOUNDATIONS FOR THIS STRUCTURE ARE SPREAD FOOTINGS BEARING ON EITHER VIRGIN SOIL OR CONTROLLED COMPACTED FILL WITH AN ASSUMED SOIL BEARING CAPACITY OF 1500 PSF IN ACCORDANCE WITH VCC SECTION 1806.2.

F-2: THE OWNER'S GEOTECHNICAL ENGINEER SHALL VERIFY, PRIOR TO POURING CONCRETE, THAT THE SOIL IS CAPABLE OF SUPPORTING SUCH A LOAD AND IS CONSISTENT WITH THE GEOTECHNICAL REPORT.

CONCRETE

C-1: ALL CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301-20 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AND ACI 318-19 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".

CONCRETE CATEGORY	PROJECT LOCATION	EXPOSURE CLASSES	CONC WT	MIN F'c (PSI)	MAX W/CM RATIO	AIR CONTENT
A1	INTERIOR FDNS	F0, S0, W1, C1	NW	3000	NA	≤ 3.0%
C	INTERIOR SOG	F0, S0, W0, C0	NW	3500	NA	≤ 3.0%

C-2: STEEL REINFORCING OF CONCRETE SHALL MEET THE FOLLOWING REQUIREMENTS.

- ASTM A615 GRADE 60 (TYPICAL REINFORCING STEEL)
- ASTM A1064 (PLAIN WELDED WIRE FABRIC - USE FLAT SHEETS ONLY)

C-3: REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENT OF DEPRESSIONS FOR SPECIAL FLOOR COVERINGS.

C-4: REFER TO SPECIFICATIONS FOR FINISHES.

ABBREVIATIONS

AB	= ANCHOR BOLT	JT	= JOINT
AFF	= ABOVE FINISHED FLOOR	LBS	= POUNDS
APC	= ARCHITECTURAL PRECAST CONCRETE	LD	= TENSION DEVELOPMENT LENGTH OF STRIAGHT REBAR
ARCH	= ARCHITECTURAL	LDH	= TENSION DEVELOPMENT LENGTH OF HOOKED REBAR
BLDG	= BUILDING	LL	= LIVE LOAD
BM	= BEAM	LLH	= LONG LEG HORIZONTAL
BOT	= BOTTOM	LLV	= LONG LEG VERTICAL
BRG	= BEARING	LSH	= LONG SIDE HORIZONTAL
CANT	= CANTILEVER	LSV	= LONG SIDE VERTICAL
CFS-S	= COLD-FORMED STEEL- STRUCTURAL	LTS	= TENSION LAP SPLICES LENGTH OF REBAR
CFS-NS	= COLD-FORMED STEEL- NON STRUCTURAL	LVL	= LAMINATED VENEER LUMBER
CFST	= COLD-FORMED STEEL TRUSS	LW	= LIGHT WEIGHT
CIP	= CAST-IN-PLACE	MAS	= MASONRY
CJ	= CONTROL JOINT	MAX	= MAXIMUM
CL	= CENTERLINE	MECH	= MECHANICAL
CLG	= CEILING	MFR	= MANUFACTURER
CLR	= CLEAR	MISC	= MISCELLANEOUS
CLSM	= CONTROLLED LOW-STRENGTH MATERIAL	MIN	= MINIMUM
CMU	= CONCRETE MASONRY UNIT	[NC]	= NON-COMPOSITE
COL	= COLUMN	NO.	= NUMBER
CONC	= CONCRETE	NIC	= NOT IN CONTRACT
CONN	= CONNECTION	NTS	= NOT TO SCALE
CONT	= CONTINUOUS	NW	= NORMAL WEIGHT
COORD	= COORDINATE	OC	= ON CENTER
CSP	= CONCRETE SURFACE PROFILE	OPP	= OPPOSITE
DBA	= DEFORMED BAR ANCHOR	OH	= OPPOSITE HAND
DET	= DETAIL	OWSJ	= OPEN WEB STEEL JOIST
DFT	= DRY FILM THICKNESS	PAF	= POWDER ACTUATED FASTENER
DIA	= DIAMETER	PL	= PLATE
DIAG	= DIAGONAL	PLF	= POUNDS PER LINEAR FOOT
DIM	= DIMENSION	POJ	= PLANE OF JOIST
DL	= DEAD LOAD	PSF	= POUNDS PER SQUARE FOOT
DN	= DOWN	PSI	= POUNDS PER SQUARE INCH
DWGS	= DRAWINGS	REF	= REFERENCE
EA	= EACH	REINF	= REINFORCING
EJ	= EXPANSION JOINT	REQD	= REQUIRED
EL	= ELEVATION	SECT	= SECTION
ELEV	= ELEVATOR	SIM	= SIMILAR
EOS	= EDGE OF SLAB	SOG	= SLAB-ON-GROUND
EQ	= EQUAL	SOMD	= SLAB-ON-METAL DECK
EQUIP	= EQUIPMENT	SPA	= SPACE
EXIST	= EXISTING	STD	= STANDARD
EW	= EACH WAY	STIFF	= STIFFENER
EXP	= EXPANSION	TBE	= TRUSS BEARING ELEVATION
EXT	= EXTERIOR	T&B	= TOP AND BOTTOM
FFE	= FINISHED FLOOR ELEVATION	T&G	= TONGUE AND GROOVE
FLR	= FLOOR	TOB	= TOP OF BEAM
FLT	= FLAT BAR	TOC	= TOP OF CONCRETE
FRT	= FIRE RETARDANT TREATED	TOS	= TOP OF STEEL
FTG	= FOOTING	TYP	= TYPICAL
GA	= GAUGE	UNO	= UNLESS NOTED OTHERWISE
GALV	= GALVANIZED	VERT	= VERTICAL
GC	= GENERAL CONTRACTOR	WCJ	= WALL CONTROL JOINT
GT	= GIRDER TRUSS	WT	= WEIGHT
HK	= HOOK	WWF	= WELDED WIRE FABRIC
HORIZ	= HORIZONTAL	(H)	= HIGH
HS	= HIGH STRENGTH	(L)	= LOW
HT	= HEIGHT		
INT	= INTERIOR		
JBE	= JOIST BEARING ELEVATION		

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CAMPUS FOR STUDENT SUCCESS - MULTIPURPOSE ROOM
NEWPORT NEWS PUBLIC SCHOOLS

746 ADAMS DRIVE, NEWPORT NEWS, VIRGINIA 23061

No.	Date	Description

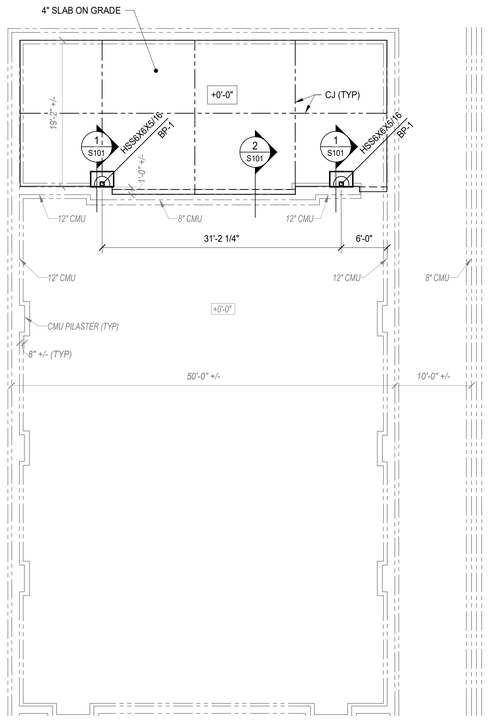
PROJECT MANAGER: JEM
DRAWN BY: JEM

QEA No.52406380

ISSUED FOR BID
OCTOBER 1, 2025

GENERAL STRUCTURAL NOTES

S001



FOUNDATION PLAN

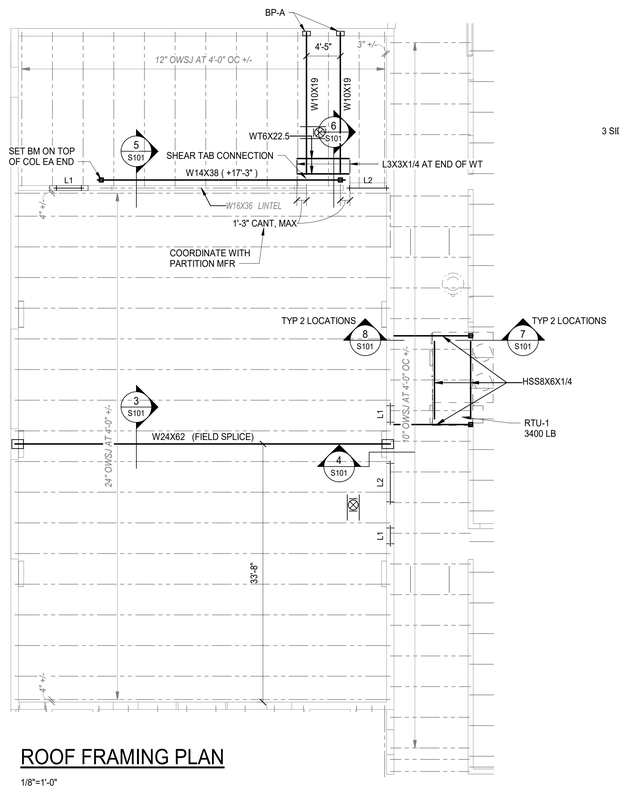
1/8"=1'-0"

FD-1: TYPICAL SLAB-ON-GROUND SHALL BE 4" NORMAL WEIGHT CONCRETE WITH 6X6-W1.4XW1.4 WWF AT MID-DEPTH, OVER VAPOR BARRIER, OVER 4" POROUS FILL.

FD-2: REFER TO DRAWING S201 FOR TYPICAL FOUNDATION DETAILS.

FD-3: TOP OF SLAB ELEVATION INDICATED THUS [-X'-XX"] RELATIVE TO TYPICAL EXISTING FIRST FLOOR ELEVATION.

FD-4: FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO THE CONSTRUCTION AND FABRICATION OF ANY NEW STRUCTURAL MEMBERS.



ROOF FRAMING PLAN

1/8"=1'-0"

R-1: REFERENCE DRAWING S201 FOR TYPICAL ROOF CONSTRUCTION DETAILS.

R-2: REFER TO ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS FOR DIMENSIONS FOR MECHANICAL AND OTHER PENETRATIONS THROUGH ROOF AND/OR CEILING.

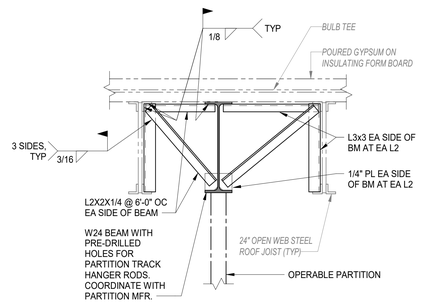
R-3: PROVIDE THE FOLLOWING STEEL FRAMING CONNECTIONS.
- USE SINGLE SHEAR TAB CONNECTION (ST) TO HSS COLUMN UNLESS NOTED OTHERWISE .
- 'CP' INDICATES BEAM BEARS ON TOP OF COLUMN PLATE.
- 'ST' INDICATES 3/8" SHEAR TAB CONN WITH 3/4" DIA BOLTS.

R-4: REFER TO S201 FOR LINTEL SCHEDULE AND FOR CONNECTION DETAILS AT MULTI-PLY STUD POSTS AND MULTI-PLY HEADERS/LINTELS.

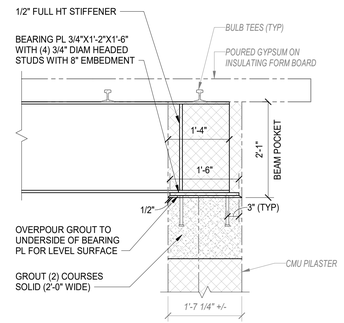
R-5: PROVIDE STEEL ANGLE FRAMES AT ALL ROOF OPENINGS, INCLUDING THOSE FOR ROOF DRAINS AND ROOF OVERFLOW DRAINS. REFER TO ARCHITECTURAL ROOF PLAN FOR LOCATIONS. REFER TO S--- FOR TYPICAL DETAIL OF FRAME.

R-6: FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO THE CONSTRUCTION AND FABRICATION OF ANY NEW STRUCTURAL MEMBERS.

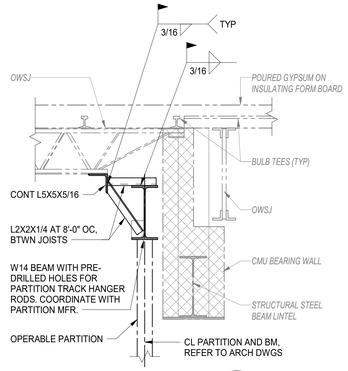
R-7: DO NOT CUT BULB TEES. INVESTIGATE LOCATION OF BULB TEES PRIOR TO CUTTING HOLES IN ROOF.



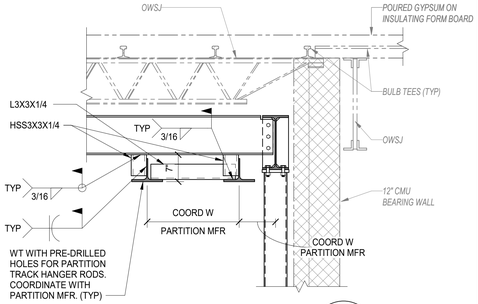
SECTION 3 — 3/4" = 1'-0" — S101 | S101



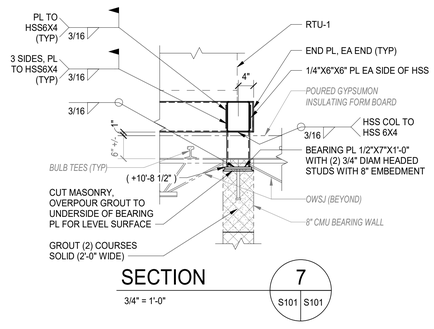
SECTION 4 — 3/4" = 1'-0" — S101 | S101



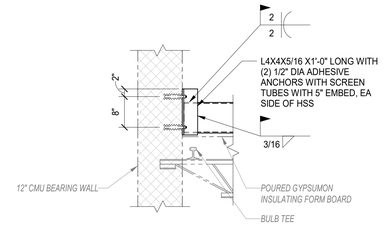
SECTION 5 — 3/4" = 1'-0" — S101 | S101



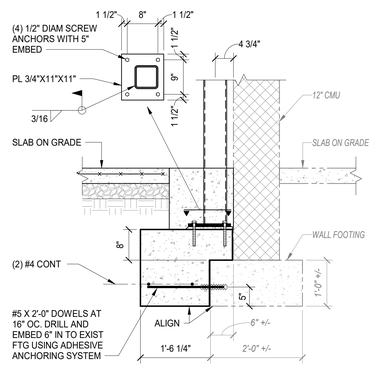
SECTION 6 — 3/4" = 1'-0" — S101 | S101



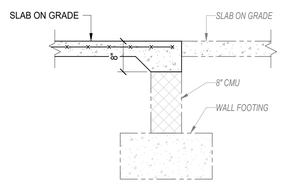
SECTION 7 — 3/4" = 1'-0" — S101 | S101



SECTION 8 — 3/4" = 1'-0" — S101 | S101



SECTION 1 — 3/4" = 1'-0" — S101 | S101



SECTION 2 — 3/4" = 1'-0" — S101 | S101

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NEWPORT NEWS PUBLIC SCHOOLS

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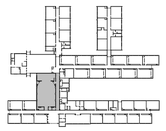
No.	Date	Description

PROJECT MANAGER: JSD
DRAWN BY: JEM

QEA No.52406380

ISSUED FOR BID
OCTOBER 1, 2025

KEY PLAN:



STRUCTURAL PLANS AND SECTIONS

S101

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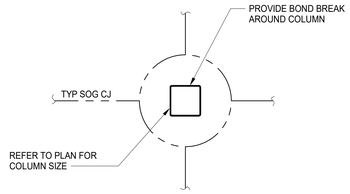
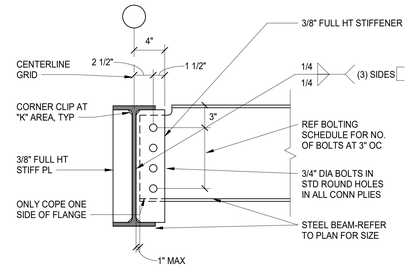


TYPICAL DIAMOND SLAB JOINT AT COLUMNS

NO SCALE

MINIMUM BOLTING SCHEDULE		
BEAM SIZE	# OF BOLTS IN SINGLE SHEAR CONN	# OF BOLT ROWS IN DOUBLE ANGLE CONN
W8	2	2
W10	2	2
W12	3	3
W14	3	3
W16	4	4
W18	5	4
W21	6	5
W24	7	5
W27	8	6
W30	9	6
W33	10	7
W36	10	8
W40	11	9
W44	12	10

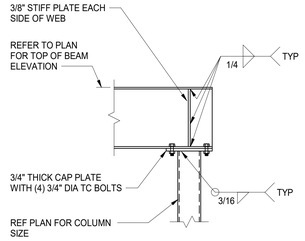
NOTES:
1. REFER TO FRAMING PLAN NOTES FOR INSTRUCTIONS REGARDING LOCATIONS WHERE CONNECTION TYPES ARE TO BE APPLIED.
2. PROVIDE PLATE AND ANGLE CONNECTION MATERIAL MEETING ASTM A572 GRADE 50 KSI STANDARD.
3. AT HEAVY SHEAR TAB (HST) CONNECTION AND SKEWED BENT PLATE (BPL) CONN, PROVIDE 1" DIA ASTM F3125 GRADE F2280 (TENSION-CONTROL) BOLTS.
4. PROVIDE 3/4" DIA ASTM F3125 GRADE F1852 (TENSION-CONTROL) BOLTS AT ALL OTHER CONNECTION TYPES UNO.
5. PROVIDE ASTM F436 WASHERS AT ALL BOLTS.
6. REFER TO INDIVIDUAL CONNECTION DETAILS FOR CORRECT LOCATIONS OF STANDARD ROUND HOLES VERSUS SHORT HORIZONTAL SLOTTED HOLES.
7. WHERE SLIP-CRITICAL CONNECTIONS ARE INDICATED ELSEWHERE IN PROJECT-SPECIFIC SECTIONS AND DETAILS, PROVIDE CLASS A FAYING SURFACES.
8. AT PLANE-OF-JOIST (POJ) BEAM CONNECTION TO GIRDER, PROVIDE DOUBLE ANGLE (DA) CONNECTION IN LIEU OF SHEAR TAB (ST) CONNECTION. PROVIDE MAXIMUM NUMBER OF BOLT ROWS AT 3" +/- OC SPACING THAT WILL FIT WITHIN THE REMAINING BEAM WEB.



TYPICAL FULL HT STIFFENER PLATE CONNECTION (SP)

1 1/2"=1'-0"

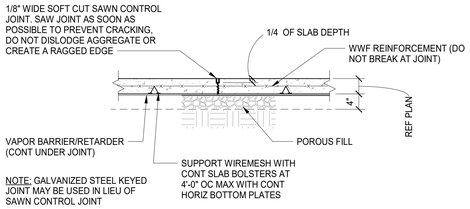
1. USE WHERE 'SP' CONNECTION TYPE INDICATED ON PLAN.
2. REFER TO MINIMUM BOLTING SCHEDULE FOR REQUIRED NUMBER OF BOLTS.



TYPICAL BEAM TO TOP OF COLUMN CONNECTION AND BEAM SPLICE DETAIL

3/4"= 1'-0"

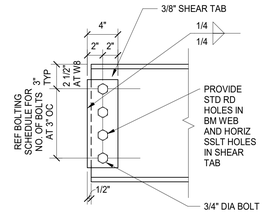
NOTE:
AT CONTRACTOR'S OPTION, 1.5 POUNDS PER CUBIC YARD POLYPROPYLENE MICRO FIBER REINF MAY BE SUBSTITUTED FOR 6X6-W1.4XW1.4 WWF IN 4" SLAB ON GRADE ONLY.



NOTE: GALVANIZED STEEL KEYED JOINT MAY BE USED IN LIEU OF SAWN CONTROL JOINT

TYPICAL SLAB-ON-GROUND AND CONTROL JOINT DETAIL

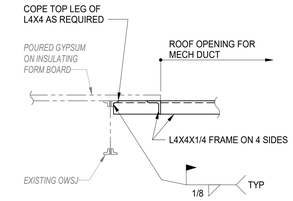
3/4"=1'-0"



TYPICAL SHEAR TAB CONNECTION (ST)

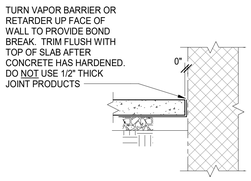
1 1/2"=1'-0"

1. DETAIL APPLIES AT WIDE FLANGE BEAM CONNECTIONS TO HSS COLUMNS AND OTHER WIDE FLANGE BEAMS OR GIRDERS.
2. REFER TO MINIMUM BOLTING SCHEDULE FOR REQUIRED NUMBER OF BOLTS.



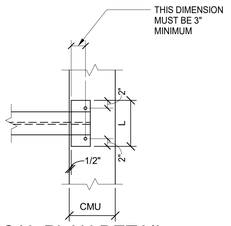
TYPICAL FRAMING AT NEW ROOF OPENING FOR MECH DUCT

NO SCALE



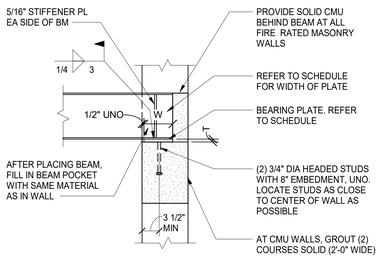
TYPICAL BOND BREAK AT SLAB-ON-GROUND

3/4"=1'-0"



TYPICAL PLAN DETAIL AT BEARING PLATE

3/4"= 1'-0"

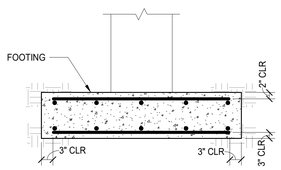


TYPICAL SECTION AT BEARING PLATE WITH HEADED STUDS

3/4"= 1'-0"

NOTE:
DO NOT WELD BEAM UNTIL FINAL STRUCTURAL FRAME ALIGNMENT IS COMPLETE IN THE AFFECTED AREA

STEEL BEAM BEARING PLATE SCHEDULE		
MARK	SIZE (TXWXL)	COMMENTS
BP-A	PL3/4X7X1'-2"	



TYPICAL CONCRETE COVER/CLEAR AT FOOTINGS

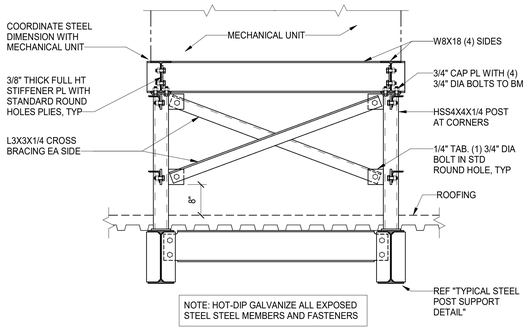
3/4"=1'-0"

LINTEL SCHEDULE

MARK	DESCRIPTION	CONFIGURATION	LOCATION
L1	12" WIDE X 8" DEEP CMU BOND BEAM WITH (2) #5 BOTTOM	12" CMU	WHERE INDICATED
L2	12" WIDE X 16" DEEP CMU BOND BEAM WITH (2) #5 TOP AND BOTTOM	12" CMU	WHERE INDICATED.

LINTEL SCHEDULE

1. REINFORCING BARS IN CMU BOND BEAMS SHALL BE ASTM A615 GRADE 60.
2. FILL ALL BOND BEAMS WITH f'c AT 28 DAY, 2000 PSI MINIMUM PORTLAND CEMENT GROUT. SHORE BOND BEAMS UNTIL GROUT HAS CURED.
3. BEAR ALL CMU BOND BEAMS AND STEEL LINTELS 8" ON SOLID MASONRY EACH END UNLESS NOTED OTHERWISE.
4. FOR LINTELS NOT INDICATED USE A SIMILAR LINTEL TYPE INDICATED ABOVE FOR THE SIMILAR WALL TYPE AND SPAN LENGTH.
5. LINTELS ARE REQUIRED OVER ELECTRICAL PANEL BOARDS OR ANY RECESSED CABINETS WITH PIPES OR CONDUIT RISING VERTICALLY. INSTALL THE LINTEL A MINIMUM OF 8" (1 FULL BLOCK COURSE) ABOVE THE CEILING.
6. REFER TO SPECIFICATION FOR LINTELS IN NON- BEARING STEEL STUD WALLS.
7. SHORE EXISTING WALLS AS REQD WHERE NEW LINTELS ARE TO BE INSTALLED WITHIN EXISTING WALLS.
8. ALL TRADES CUTTING HOLES IN NEW OR EXISTING CMU WALLS SHALL COORDINATE THEIR WORK WITH THE MASON SO THAT AN APPROPRIATE LINTEL MAY BE PROVIDED AT THE OPENING. AT LOCATIONS ABOVE CEILINGS, PRECAST CMU OR PRECAST CONCRETE LINTELS MAY BE SUBSTITUTED FOR BOND BEAM LINTELS INDICATED SO LONG AS THE SAME UNIT SIZE AND REINFORCING STEEL IS PROVIDED.



NOTE: HOT-DIP GALVANIZE ALL EXPOSED STEEL STEEL MEMBERS AND FASTENERS

TYPICAL ELEVATED MECHANICAL UNIT SUPPORT - ALTERNATE

NOT TO SCALE

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COMMONWEALTH OF VIRGINIA
JACQUELINE E. MILLER
Lic. No. 049340
10/03/25
PROFESSIONAL ENGINEER

CAMPUS FOR STUDENT SUCCESS - MULTIPUPOSE ROOM
NEWPORT NEWS PUBLIC SCHOOLS

746 ADAMS DRIVE, NEWPORT NEWS, VIRGINIA 23061

No.	Date	Description

PROJECT MANAGER: JSD
DRAWN BY: JEM

QEA No.52406380

ISSUED FOR BID
OCTOBER 1, 2025

TYPICAL DETAILS

S201

PATH & FILENAME: Autodesk Docs://Campus for Student Success/2407-38_CampusforStudentSuccess_CENTRAL_RVT2024.rvt
PLOTTING DATE & TIME: 10/1/2025 5:18:26 PM

GENERAL DEMOLITION NOTES

1. WHERE EQUIPMENT IS INDICATED TO BE REMOVED, IT SHALL MEAN COMPLETE REMOVAL OF EQUIPMENT, INCLUDING SUPPORTS, GUYS, ANCHORS, BRACKETS, CONTROLS AND INCIDENTAL ITEMS CONNECTED OR FASTENED TO EQUIPMENT. OWNER MAINTAINS THE OWNERSHIP OF ALL ITEMS TAGGED OR IDENTIFIED.
2. 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.
3. 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.
4. REFER TO REFLECTED CEILING PLANS ON ARCHITECTURAL DRAWINGS FOR DEMOLITION AND NEW WORK RELATED TO CEILINGS.
5. CONTRACTOR SHALL RECLAIM AND DISPOSE OF ALL REFRIGERANT IN ACCORDANCE WITH ALL STATE AND LOCAL CODES PRIOR TO REMOVING THE EXISTING UNIT.

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, THERMOSTATS AND OTHER WALL OR CEILING MOUNTED EQUIPMENT WITH REFLECTED PLANS, LIGHT FIXTURES, SPRINKLER SYSTEMS AND ACCESSORIES INSTALLED BY OTHER TRADES SO AS TO PRESENT A NEAT AND ATTRACTIVE INSTALLATION THROUGHOUT THE BUILDING.
4. ALL PIPING, VALVES, DUCTWORK, ETC., SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
5. PIPING ARRANGEMENTS ARE DIAGRAMMATIC.
6. PIPING PASSING THROUGH WATERPROOF MEMBRANES SHALL BE MADE WATERTIGHT.
7. ARRANGE PIPING AND DUCTWORK PARTICULARLY ABOVE CEILING AS REQUIRED TO CLEAR STRUCTURE, CONDUIT, LIGHTS, ETC., ALLOWING SPACE FOR HANGERS, INSULATION, ETC.
8. SEAL AROUND AND MAKE AIRTIGHT ALL DUCTS AND PIPES PENETRATING INSULATED CEILINGS AND WALLS.
9. DUCT DIMENSIONS MAY BE MODIFIED AS APPROVED BY ENGINEER.
10. DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS.
11. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE PROTECTION PLANS FOR ALL RATED CONDITIONS.
12. REFER TO FIRE SAFETY DETAILS ON DRAWING M403 FOR PENETRATIONS THROUGH FIRE RATED WALLS, PARTITIONS AND ASSEMBLIES.
13. 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.
14. REFER TO SPECIFICATIONS FOR FIRE DAMPER REQUIREMENTS. FURNISH AND INSTALL FIRE DAMPERS INDICATED ON DRAWINGS OR AS REQUIRED BY CODE. ALL FIRE DAMPERS SHALL BE IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS, AND UL LABELED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
15. PROVIDE ACCESS DOORS TO ALL FIRE DAMPERS. PROVIDE ACCESS DOORS TO ALL FIRE DAMPERS. DAMPERS EQUIPPED WITH FUSIBLE LINKS, INTERNAL OPERATORS OR BOTH SHALL BE PROVIDED WITH AN ACCESS DOOR THAT IS NOT LESS THAN 12 INCHES SQUARE OR PROVIDED WITH A REMOVABLE DUCT SECTION.
16. MAINTAIN PROPER CLEARANCES PER ELECTRICAL CODE ON ALL VAV BOXES AND OTHER EQUIPMENT. COORDINATE WITH ALL TRADES TO ENSURE CLEARANCES ARE NOT OBSTRUCTED.
17. FINAL LOCATION OF SPACE THERMOSTATS, HUMIDISTATS, AND SENSORS SHALL BE APPROVED BY ARCHITECT.
18. INSTALL ALL WALL MOUNTED NON-ADJUSTABLE SENSORS AT 5'-0" FROM FINISHED FLOOR TO TOP OF SENSOR. ADJUSTABLE DEVICES SHALL BE INSTALLED AT 4'-0' FROM FINISHED FLOOR TO TOP OF SENSOR.
19. ALL ROUND BRANCH DUCTS TO DIFFUSERS SHALL MATCH NECK SIZES SHOWN ON SCHEDULE, UNLESS OTHERWISE NOTED.
20. ALL DIFFUSERS, GRILLES AND REGISTERS SHALL BE SIZED TO HAVE A MINIMUM FREE AREA OF 70% AND MEET PERFORMANCE CRITERIA SCHEDULED.
21. 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.
22. CONTRACTOR SHALL ONLY USE DESIGNATED AREAS WITHIN THE EQUIPMENT FOR PENETRATIONS OF ELECTRICAL CONDUITS AND CONTROL CONDUITS. THESE PENETRATIONS MUST BE WATERTIGHT. 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 ENSURE IT IS WATERTIGHT. IF EQUIPMENT CAN NOT BE MADE WATERTIGHT, THE CONTRACTOR SHALL BE REQUIRED TO REPLACE EQUIPMENT AT HIS OWN EXPENSE.
23. REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL WORK REQUIRED FOR INSTALLATION OF ROOF MOUNTED HVAC EQUIPMENT.
24. PROVIDE NEMA 3R ENCLOSURES FOR ALL INTERIOR FIELD-INSTALLED CONTROLS, ACCESSORIES, AND ELECTRICAL COMPONENTS WHETHER INDICATED OR NOT. FIELD-INSTALLED CONTROLS, ACCESSORIES, AND ELECTRICAL COMPONENTS INSTALLED EXTERIOR TO BUILDING SHALL BE NEMA 4X-SS.

ABBREVIATIONS

ø	DIAMETER
APD	AIR PRESSURE DROP
B-x	BOILER DESIGNATION (EXISTING)
CFM	CUBIC FEET PER MINUTE
COMP.	COMPRESSOR
CU	CONDENSING UNIT DESIGNATION
D	CONDENSATE DRAIN
DALT	DUCT AIR LEAKAGE TESTING
DB	DRY BULB
DDC	DIRECT DIGITAL CONTROL
DISCH	DISCHARGE
DN	DOWN
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRONICALLY COMMUTATED
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
°F	DEGREES FAHRENHEIT
FA	FREE AREA
FD	FIRE DAMPER
FT	FEET
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
IH	INTAKE HOOD (EXISTING)
IN	INCH/INCHES
KW	KILOWATTS
kA	KILO AMPS INTERRUPTING CAPACITY
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
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
P-x	PUMP DESIGNATION (EXISTING)
PH	PHASE
ΔP	PRESSURE DIFFERENTIAL
RA	RETURN AIR
RAD	RADIATED
RD	ROOF DRAIN (EXISTING)
RH	RELIEF HOOD (EXISTING)
RPM	REVOLUTIONS PER MINUTE
RTU-x	ROOFTOP UNIT DESIGNATION
SA	SUPPLY AIR
SCCR	SHORT CIRCUIT RATING
SD	SMOKE DETECTOR
SENS	SENSIBLE
SF	SQUARE FEET
T	THERMOSTAT OR TEMPERATURE SENSOR
TF-x	TRANSFER FAN DESIGNATION
TYP	TYPICAL
UV-x	UNIT VENTILATOR DESIGNATION
V	VOLTS
VAV-x	VARIABLE AIR VOLUME UNIT DESIGNATION
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT THROUGH ROOF (EXISTING)
W	WATTS
WB	WET BULB
WG	WATER GAUGE
WH	WATER HEATER (EXISTING)
WPD	WATER PRESSURE DROP

LEGEND

Symbol	Description
FD	FIRE DAMPER
	VOLUME DAMPER
SD	SMOKE DETECTOR LOCATION
Y 800	DIFFUSER, REGISTER, AND GRILLE CFM AS INDICATED
	3/4" DOOR UNDERCUT
1.0	DOOR LOUVER, FREE AREA AS INDICATED
H	HUMIDISTAT OR HUMIDITY SENSOR
T XX	THERMOSTAT OR TEMPERATURE SENSOR, CONTROLLING UNIT AS INDICATED
	RETURN/EXHAUST GRILLE
	SUPPLY DIFFUSER
	EXISTING TO BE REMOVED
	EXISTING TO REMAIN
	NEW DUCT WORK
	DUCTWORK WITH TRANSITION
	FLEXIBLE AIR DUCT
	TRANSFER DUCT WITH GRILLE, SIZE AS INDICATED
	RECTANGULAR DUCT ELBOW WITH TURNING VANES
	ROUND OR RADIUS DUCT ELBOW
	ROUND OR RADIUS DUCT ELBOW
	90º RECTANGULAR DUCT ELBOW - TURN UP
	90º RECTANGULAR DUCT ELBOW - TURN DOWN
	90º ROUND DUCT ELBOW - TURN UP
	90º ROUND DUCT ELBOW - TURN DOWN
	ROOF MOUNTED EXHAUST FAN
	ROOF MOUNTED INTAKE HOOD
	ROOF MOUNTED EXHAUST OR RELIEF HOOD
ø	ROUND DUCT
X	DEMOLITION NOTE
X	NEW WORK NOTE
	POINT OF DEMOLITION
	POINT OF NEW WORK
	DIRECTION OF AIR FLOW
1 MXXX	ENLARGED PLAN: NUMBER "1" SEE SHEET MXXX
P1 MXXX	PHOTO: NUMBER "1" SEE SHEET MXXX
A MXXX	SECTION: LETTER "A" SEE SHEET MXXX
(X"/X")	EXISTING SIZES AS INDICATED
	PIPE CAP
	THREADED UNION
PG	PRESSURE GAUGE WITH VALVE
PT	PRESSURE/TEMPERATURE TEST PORT
	DIRECTION OF FLOW IN PIPE
	PIPE REDUCER
	PIPE DOWN
	PIPE TEE DOWN
	PIPE TEE UP
	PIPE UP
D	DRAIN PIPING
	EXISTING PIPING TO REMAIN
HWR	HOT WATER RETURN PIPING
HWS	HOT WATER SUPPLY PIPING
	NEW PIPING
	PIPING TO BE REMOVED
T 40-240°F	THERMOMETER WITH SEPARABLE WELL
	DIRECTION OF PITCH FOR PIPING OR DUCTWORK
	TWO-WAY CONTROL VALVE
MAV	MANUAL AIR VENT
	BALL VALVE
	BUTTERFLY VALVE
	1-HR FIRE RATED WALL

QUINN EVANS

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CAMPUS FOR STUDENT SUCCESS - MULTIPURPOSE ROOM

NEWPORT NEWS PUBLIC SCHOOLS

746 ADAMS DRIVE, NEWPORT NEWS, VIRGINIA 23601

No.	Date	Description

PROJECT MANAGER: KDA
DRAWN BY: JAR

ISSUED FOR BID:IFB #011-0-2026/SB
QEA No.Project Number 52406380

ISSUED FOR BID
OCTOBER 1, 2025

GENERAL NOTES, LEGEND AND ABBREVIATIONS

M001

PACKAGED ROOFTOP AIR CONDITIONER UNIT SCHEDULE

UNIT NO.	AIR QUANTITY		SUPPLY FAN			EXHAUST FAN DATA			DX COOLING COIL DATA						NO. OF CONDENSER FANS	HOT WATER REHEAT COIL PERFORMANCE										ELECTRICAL				UNIT WEIGHT (LBS)	SELECTION BASED ON "TRANE"	MODEL NO.	REMARKS
											EAT		LAT																			
	TOTAL CFM	OA CFM	CFM	ESP (IN)	HP	TOTAL CFM	ESP (IN. WG)	HP	TOTAL (MBH)	SENS (MBH)	DB(°F)	WB(°F)	DB(°F)	WB(°F)	NO. OF COMP.	CFM	MIN. COIL FA (SF)	CAPACITY TOTAL (MBH)	EAT DB(°F)	LAT DB(°F)	APD (IN.)	GPM	EWT (FT.)	LWT (°F)	WPD FT.)	V	PH	MCA	MOCP				
RTU-1	4,035	1,370	4,035	2.5	3.0	3,630	0.5	1.5	228.9	133.4	83.1	70.5	52.2	51.9	1	2	4,035	10.4	202.0	50.0	95.7	0.12	10.0	180	140	0.2	460	3	42.6	50	3305	HORIZON	OADG020	1, 2, 3, 4, 5, 6, 7, 8, 9, 10

SERIES FAN POWERED VAV BOX SCHEDULE

UNIT NO.	INLET VALVE			FAN DATA		ELECTRIC HEATING COIL DATA							NC DISCH.	NC RAD	SELECTION BASED ON "TRANE"	REMARKS
	MAX CFM	MIN CFM	SIZE (IN.)	CFM	ESP (IN.)	EAT (°F)	LAT (°F)	MBH	KW	MOCP	V	PH				
VAV1-1	920	345	10"ø	920	0.33	68.0	94.0	25.9	9.0	25	480	3	25	30	VSEG	1, 2, 3, 4
VAV1-2	1545	600	14"ø	600	0.6	68.0	95.6	46.2	16.0	35	480	3	31	34	VSEG	1, 2, 3, 4
VAV1-3	1570	615	14"ø	1570	0.6	68.0	94.8	46.0	16.0	35	480	3	31	34	VSEG	1, 2, 3, 4

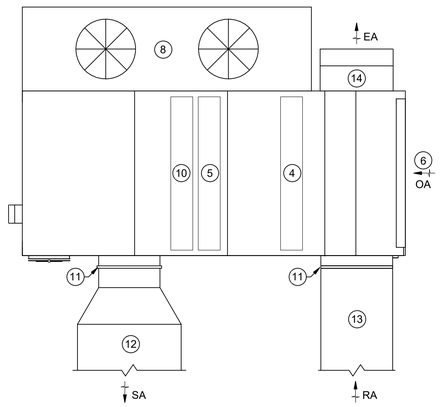
GRILLE, REGISTER & DIFFUSER SCHEDULE

MARK	NECK SIZE	DESCRIPTION	MATERIAL	FINISH	VOLUME DAMPER	SHAPE	MAXIMUM ΔP	MAXIMUM NC	SELECTION	REMARKS
C	10"ø	LOUVERED FACE ADJUSTABLE CEILING DIFFUSER	STEEL	WHITE	NO	SQUARE	0.1"	25	SCDA	1, 2
D	12"ø	LOUVERED FACE ADJUSTABLE CEILING DIFFUSER	STEEL	WHITE	NO	SQUARE	0.1"	25	SCDA	1, 2
W	24"/24"	CEILING RETURN GRILLE 45° DEFLECTION, 3/4" SPACING	STEEL	WHITE	NO	SQUARE	0.1"	25	530	1
WF	24"/24"	FILTERED CEILING RETURN GRILLE, 45° DEFLECTION, 3/4" SPACING	STEEL	WHITE	NO	SQUARE	0.1"	25	530	1
Y	10"/8"	LOUVERED SIDEWALL GRILLE	STEEL	WHITE	NO	RECTANGULAR	0.1"	25	530	

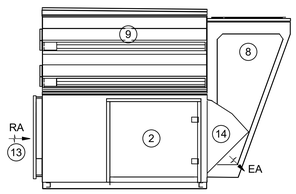
EXHAUST FAN SCHEDULE

UNIT NO.	TYPE	ARRANGEMENT	WHEEL	DRIVE	CFM	ESP (IN.)	FAN RPM	MAX TIP SPEED	MOTOR DATA			CONTROL METHOD	MAX SONES	SELECTION BASED ON "GREENHECK"	REMARKS
									HP (W)	V	PH				
TF-1	CEILING CABINET	HORIZONTAL	FORWARD CURVED CENTRIFUGAL	DIRECT	200	0.125	900	1590	(55)	120	1	THERMOSTAT	2.3	SP-A200	1, 2, 3

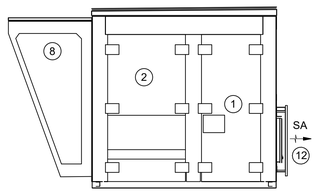
PLAN VIEW



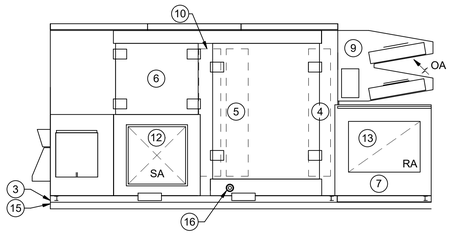
REAR VIEW



FRONT VIEW



RIGHT VIEW



RTU-1 COMPONENT DIAGRAM

NOT TO SCALE

RTU COMPONENTS

1. CONTROLS AND ELECTRICAL COMPARTMENT
2. ACCESS DOOR
3. BASE RAIL
4. FILTER
5. DX COIL
6. SUPPLY FAN SECTION
7. EXHAUST FAN SECTION
8. CONDENSER FAN SECTION
9. OUTDOOR AIR INTAKE WITH CONTROL DAMPER
10. HOT WATER PIPING
11. CONNECT DUCTWORK TO UNIT USING FLEXIBLE CONNECTORS.
12. HORIZONTAL DISCHARGE SUPPLY
13. HORIZONTAL RETURN
14. EXHAUST AIR
15. ROOF CURB BY MANUFACTURER
16. CONDENSATE DRAIN

SCHEDULE REMARKS:

PACKAGED ROOFTOP UNIT SCHEDULE:

1. PROVIDE VFD FOR SUPPLY AND EXHAUST FAN.
2. WEIGHT DOES NOT INCLUDE ROOF CURB, ISOLATION RAIL AND ACOUSTICAL SYSTEM.
3. UNIT COOLING COIL CAPACITY IS GROSS CAPACITY; BASED ON 95°F DB/78°F WB AMBIENT CONDITIONS.
4. PROVIDE SINGLE POINT POWER CONNECTION.
5. EXHAUST FAN CAPACITY BASED ON ECONOMIZER OPERATION.
6. PROVIDE CONDENSATE OVERFLOW PROTECTION SWITCH.
7. PROVIDE UNIT WITH 65 KAIC SCCR.
8. PROVIDE WITH VARIABLE SPEED COMPRESSOR AND CONDENSER FAN MOTORS.
9. PROVIDE WITH R-454B REFRIGERANT.
10. 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.

SERIES FAN POWERED VAV BOX SCHEDULE:

1. PROVIDE WITH EC MOTOR.
2. PROVIDE WITH 1" FOIL FACED INSULATION.
3. PROVIDE UNIT WITH BOTTOM ACCESS PANEL FOR FAN MAINTENANCE AND SIDE ACCESS FOR CONTROL PANEL AND FILTER.
4. PROVIDE WITH SOUND ATTENUATOR.

GRILLE, REGISTER & DIFFUSER SCHEDULE:

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, 12" x 12" FACE MOUNTED IN 2' x 2' METAL PANEL.

EXHAUST FAN SCHEDULE:

1. PROVIDE WITH LINE VOLTAGE THERMOSTAT.
2. PROVIDE WITH BACKDRAFT DAMPER AND DISCONNECT SWITCH.
3. PROVIDE WITH EC MOTOR.

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4411 CON BRIAD GLEN ALLEN, VA 23060
2809 S. LYNNHAVEN ROAD VA BEACH, VA 23452
TELEPHONE: (757) 599-4433 PROJECT #24-169

COMMONWEALTH OF VIRGINIA
KEVIN D. ALLEN
Lic. No. 023349
10.01.2025
PROFESSIONAL ENGINEER

CAMPUS FOR STUDENT SUCCESS - MULTIPURPOSE ROOM
NEWPORT NEWS PUBLIC SCHOOLS

746 ADAMS DRIVE, NEWPORT NEWS, VIRGINIA 23601

No.	Date	Description

PROJECT MANAGER: KDA
DRAWN BY: JAR

ISSUED FOR BID:IFB #011-0-2026/SB
QEA No.Project Number 52406380

ISSUED FOR BID
OCTOBER 1, 2025

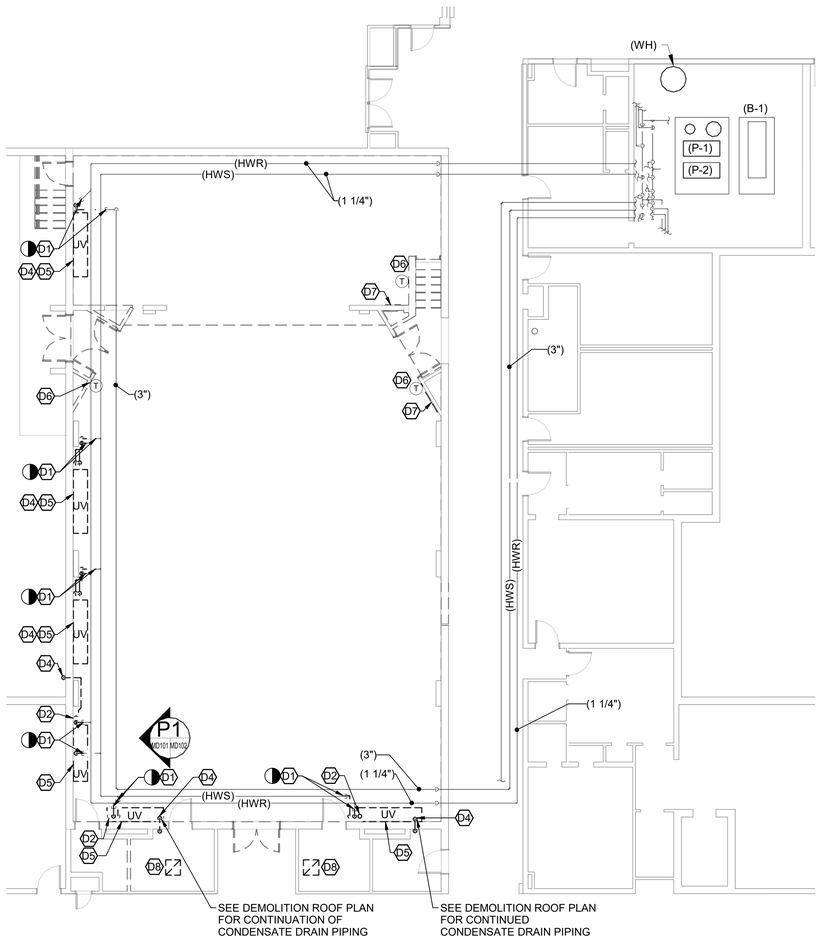
MECHANICAL SCHEDULES AND DIAGRAMS

M002

PATH & FILENAME: Autodesk Docs://Campus for Student Success/Campus for Student Success - Mechanical - R24.rvt
PLOTTING DATE & TIME: 10/2/2025 2:55:14 PM

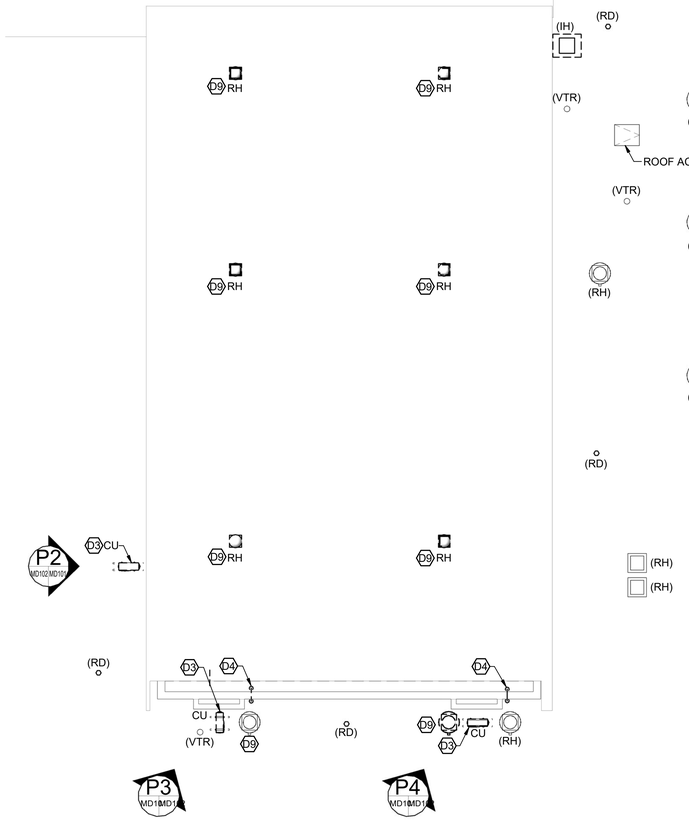
DEMOLITION NOTES	
NO.	DESCRIPTION
D1	DISCONNECT AND REMOVE HOT WATER SUPPLY AND RETURN PIPING EXPOSED ON WALL FROM UV TO ABOVE CEILING COMPLETE INCLUDING HANGERS AND SUPPORTS TO POINT INDICATED AND CAP ABOVE CEILING.
D2	DISCONNECT AND REMOVE REFRIGERANT PIPING COMPLETE.
D3	DISCONNECT AND REMOVE CONDENSING UNIT COMPLETE. SUPPORTS SHALL BE EXISTING TO REMAIN.
D4	DISCONNECT AND REMOVE CONDENSATE DRAIN PIPING COMPLETE.

DEMOLITION NOTES	
NO.	DESCRIPTION
D5	DISCONNECT AND REMOVE UNIT VENTILATOR COMPLETE. REFER TO ARCHITECTURAL DRAWINGS FOR ANY WALL OR FLOOR PATCHING DETAILS.
D6	REMOVE THERMOSTAT COMPLETE.
D7	DISCONNECT AND REMOVE WALL LOUVER COMPLETE. REFER TO ARCHITECTURAL DRAWINGS FOR WALL PATCHING DETAILS.
D8	DISCONNECT AND REMOVE GRILLE COMPLETE.
D9	REMOVE RELIEF HOOD AND CAP ROOF CURB. REFER TO "EQUIPMENT CURB DETAIL" ON DRAWING M401.



FLOOR PLAN - DEMOLITION - MECHANICAL

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



ROOF PLAN - DEMOLITION - MECHANICAL

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

PATH & FILENAME: Autodesk Docs://Campus for Student Success/Campus for Student Success - Mechanical - R24.rvt
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COMMONWEALTH OF VIRGINIA
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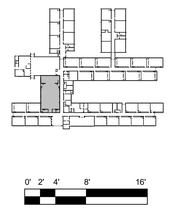
10.01.2025
PROFESSIONAL ENGINEER

CAMPUS FOR STUDENT SUCCESS - MULTIPURPOSE ROOM
NEWPORT NEWS PUBLIC SCHOOLS

746 ADAMS DRIVE, NEWPORT NEWS, VIRGINIA 23601

KEY PLAN:



No.	Date	Description

PROJECT MANAGER: KDA
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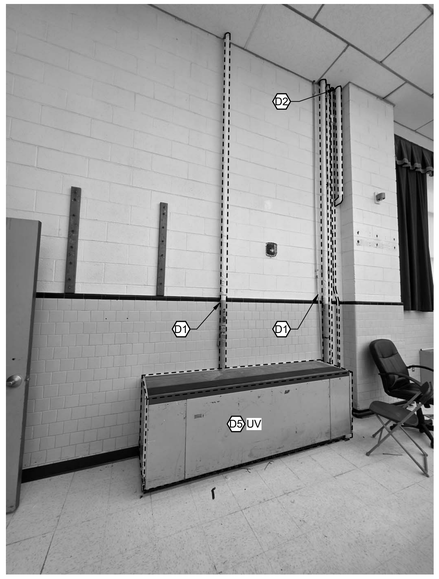
ISSUED FOR BID:IFB #011-0-2026/SB
QEA No.Project Number 52406380

ISSUED FOR BID
OCTOBER 1, 2025

FLOOR PLANS - DEMOLITION - MECHANICAL

MD101



P1 MD102 UNIT VENTILATOR REMOVAL PHOTO
NOT TO SCALE

P2 MD102 CONDENSING UNIT REMOVAL PHOTO
NOT TO SCALE

P3 MD102 CONDENSING UNIT REMOVAL PHOTO
NOT TO SCALE

DEMOLITION NOTES ⬡	
NO.	DESCRIPTION
D1	DISCONNECT AND REMOVE HOT WATER SUPPLY AND RETURN PIPING EXPOSED ON WALL FROM UV TO ABOVE CEILING COMPLETE INCLUDING HANGERS AND SUPPORTS TO POINT INDICATED AND CAP ABOVE CEILING.
D2	DISCONNECT AND REMOVE REFRIGERANT PIPING COMPLETE.
D3	DISCONNECT AND REMOVE CONDENSING UNIT COMPLETE. SUPPORTS SHALL BE EXISTING TO REMAIN.
D5	DISCONNECT AND REMOVE UNIT VENTILATOR COMPLETE. REFER TO ARCHITECTURAL DRAWINGS FOR ANY WALL OR FLOOR PATCHING DETAILS.
D9	REMOVE RELIEF HOOD AND CAP ROOF CURB. REFER TO "EQUIPMENT CURB DETAIL" ON DRAWING M401.
D10	CONTRACTOR SHALL ISOLATE HOT WATER PIPING SERVING THE GYM/STAGE AREAS. ISOLATION SHALL BE COMPLETED IN A MANNER THAT DOES NOT DISRUPT OPERATION OF OTHER HEATING ZONES.

P4 MD102 CONDENSING UNIT REMOVAL PHOTO
NOT TO SCALE

P5 MD102 PIPING AND MECHANICAL EQUPMENT REMOVAL PHOTO
NOT TO SCALE

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TELEPHONE: (757) 599-4433 PROJECT #24-169

COMMONWEALTH OF VIRGINIA
KEVIN D. ALLEN
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PROFESSIONAL ENGINEER

CAMPUS FOR STUDENT SUCCESS - MULTIPURPOSE ROOM
NEWPORT NEWS PUBLIC SCHOOLS

746 ADAMS DRIVE, NEWPORT NEWS, VIRGINIA 23601

No.	Date	Description

PROJECT MANAGER: KDA
DRAWN BY: JAR

ISSUED FOR BID:IFB #011-0-2026/SB
QEA No.Project Number 52406380

ISSUED FOR BID
OCTOBER 1, 2025

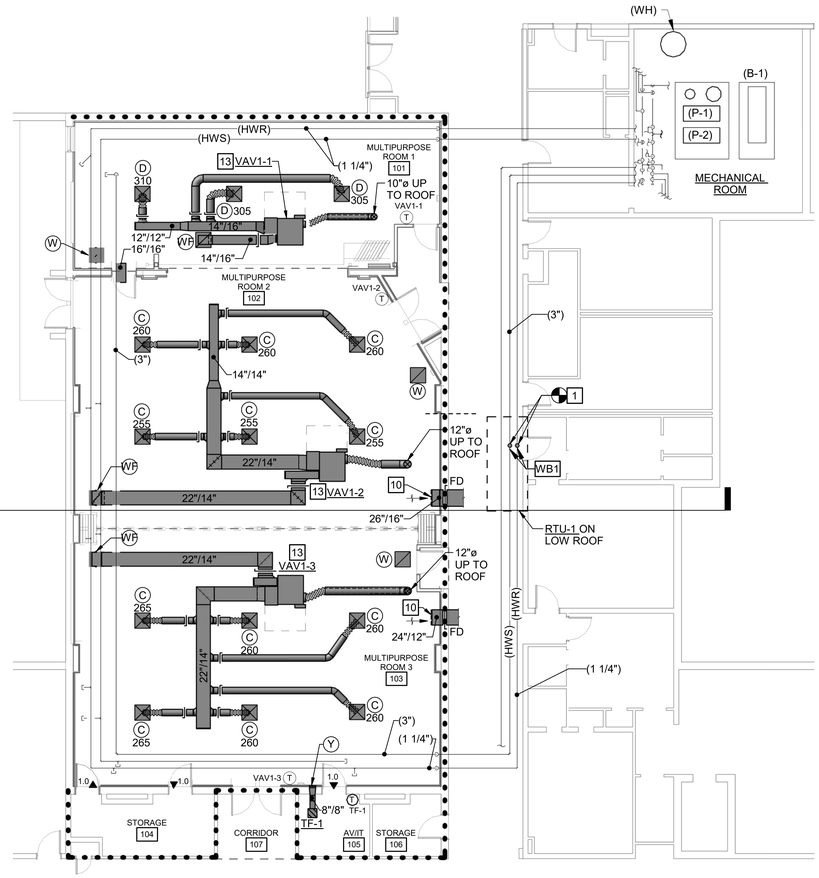
DEMOLITION PHOTOGRAPHS

MD102

PATH & FILENAME: Autodesk Docs://Campus for Student Success/Campus for Student Success - Mechanical - R24.rvt
PLOTTING DATE & TIME: 10/2/2025 2:55:33 PM

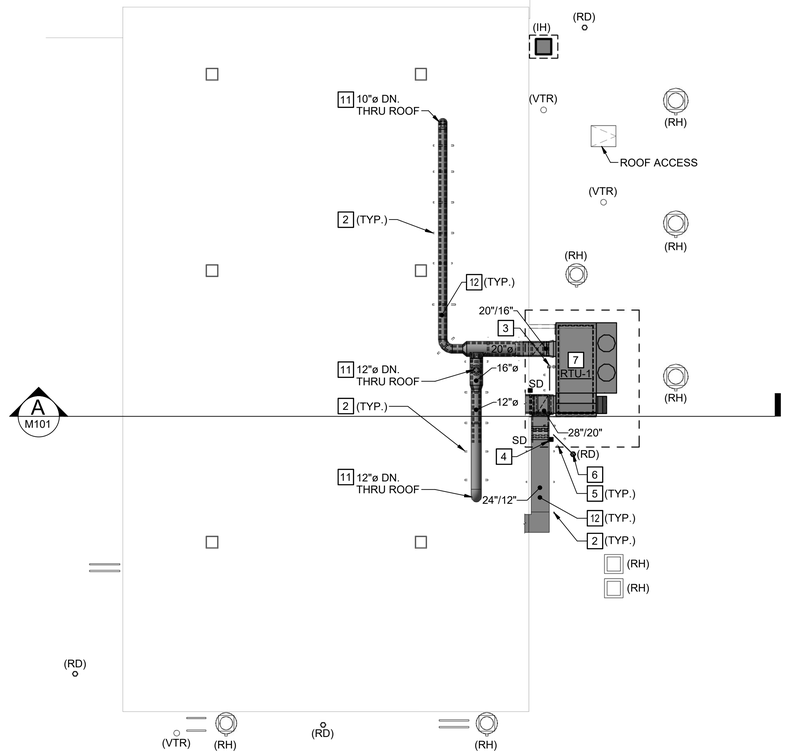
NEW WORK NOTES ☐	
NO.	DESCRIPTION
1	PROVIDE NEW HOT WATER PIPING TO POINT INDICATED INCLUDING INSULATION, HANGERS AND SUPPORTS COMPLETE.
2	REFER TO "ROOF MOUNTED DUCT SUPPORT DETAIL" ON DRAWING M402.
3	REFER TO "CONDENSATE DRAIN TRAP DETAIL" ON DRAWING M402.
4	PROVIDE DUCT MOUNTED SMOKE DETECTOR FURNISHED BY DIVISION 28, INSTALLED BY DIVISION 23. INTERLOCK SMOKE DETECTOR(S) WITH THE FIRE ALARM SYSTEM IN ACCORDANCE WITH SECTION 606.4.1 OF THE VIRGINIA MECHANICAL CODE. REFER TO ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.
5	REFER TO "ROOF MOUNTED PIPE SUPPORT DETAIL" ON DRAWING M402.
6	DISCHARGE CONDENSATE DRAIN INTO ROOF DRAIN.

NEW WORK NOTES ☐	
NO.	DESCRIPTION
7	REFER TO "ROOFTOP UNIT MOUNTING DETAIL" ON DRAWING M402.
10	PROVIDE 1"x 1" WIRE MESH AND FRAME OVER OPEN END OF DUCTWORK.
11	PROVIDE ROOF CURB FOR DUCTWORK PENTRATING THE ROOF. REFR TO "DUCT THRU ROOF CURB DETAIL" ON DRAWING M401.
12	PROVIDE DOUBLE WALL DUCTWORK WITH 3" FIBERGLASS INSULATION ENCAPSULATED BETWEEN SOLID INNER WALL FOR ALL DUCTWORK INSTALLED OUTDOORS. REFER TO SPECIFICATION 230500 FOR DUCTWORK REQUIREMENTS. REFER TO SPECIFICATION 230700 FOR WEATHERPROOF COATING DETAILS.
13	REFER TO "TYPICAL SERIES FAN POWERED VAV BOX (WITH ELECTRIC REHEAT COIL) INSTALLATION DETAIL" ON DRAWING M402.
WB1	1-1/4" HWS/HWR (10.0 GPM)



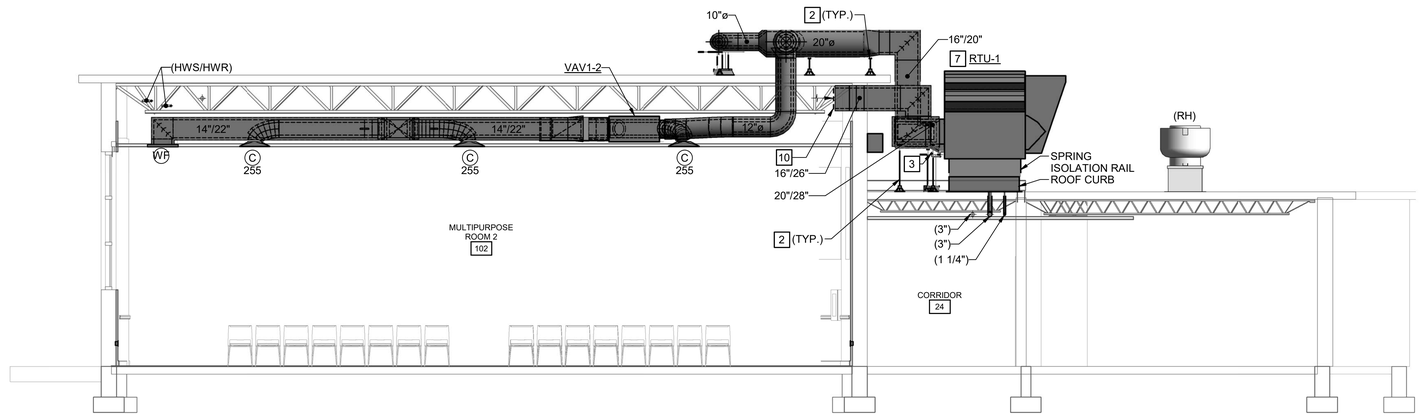
FLOOR PLAN - NEW WORK - MECHANICAL

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



ROOF PLAN - NEW WORK - MECHANICAL

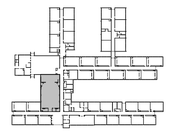
SCALE: 1/8" = 1'-0"



A SECTION A

A M101 M101 SCALE: 1/4" = 1'-0"

KEY PLAN:



0' 2' 4' 8' 16'

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746 ADAMS DRIVE, NEWPORT NEWS, VIRGINIA 23601

No.	Date	Description

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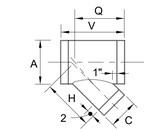
OCTOBER 1, 2025

FLOOR PLANS - NEW WORK - MECHANICAL

M101

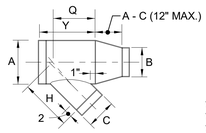


(ONE TAP) V = 1.414" D + 4.8"
(TWO TAPS) V = 1.414" (C + D) + 9.7"

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

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

ROUND LATERAL



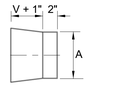
(ONE TAP) V = 1.414" D + 4.8"
(TWO TAPS) V = 1.414" (C + D) + 9.7"

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

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

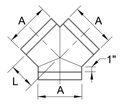
ROUND REDUCING LATERAL

BRANCH TAKEOFFS



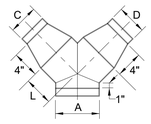
V = 4 ± 1" FOR MINOR AXIS OF 22" OR LESS
V = 6 ± 1" FOR MINOR AXIS 23" TO 38"
V = 8" FOR MINOR AXIS OVER 38"

ROUND BELLMOUTH



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

ROUND LATERAL



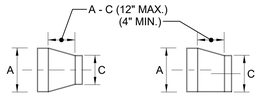
$L = \frac{A}{2} + 2"$

ROUND REDUCING LATERAL

ROUND "Y" BRANCH

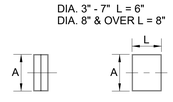
R = 1.5 A + 3"
3" - 20" DIA.

ROUND ELBOWS



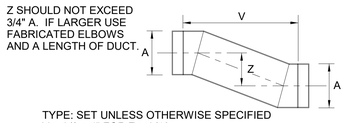
CONCENTRIC ECCENTRIC

ROUND REDUCERS



BEAD = 1/2" FOR A = 3" - 23"
BEAD = 5/8" FOR A = 24" AND OVER

ROUND COUPLINGS

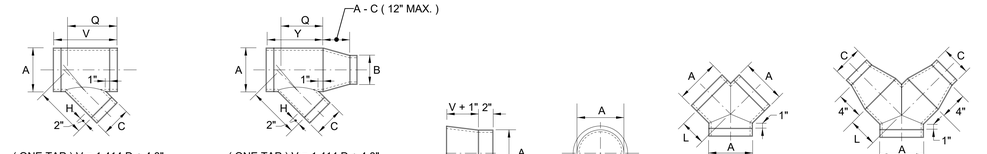


TYPE: SET UNLESS OTHERWISE SPECIFIED
V = A/2 + 4" FOR Z ≥ A/10
V = A + 4" FOR A/10 < Z ≥ A/4
V = 2A + 4" FOR A/4 < Z
SPECIFY: Z - CENTERLINE OFFSET

ROUND OFFSETS

LOW VELOCITY SINGLE-WALL ROUND DUCTWORK FITTING DETAILS

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

(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

V = 4 %%153 1" FOR MINOR AXIS OF 22" OR LESS
V = 6 %%153 1" FOR MINOR AXIS 23" TO 38"
V = 8" FOR MINOR AXIS OVER 38"

ROUND BELLMOUTH

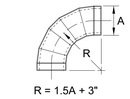
$L = \frac{A}{2} + 2"$

ROUND LATERAL

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

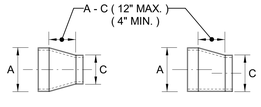
ROUND REDUCING LATERAL

ROUND "Y" BRANCH



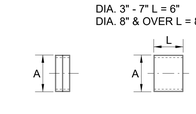
R = 1.5A + 3"
3" - 20" DIA.

ROUND ELBOWS



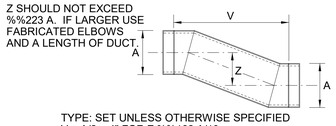
CONCENTRIC ECCENTRIC

ROUND REDUCERS



BEAD = %%235" FOR A = 3" - 23"
BEAD = %%241" FOR A = 24" AND OVER

ROUND COUPLINGS

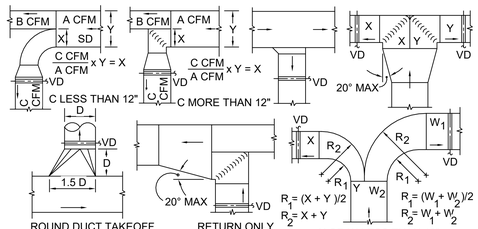


TYPE: SET UNLESS OTHERWISE SPECIFIED
V = A/2 + 4" FOR Z %%162 A/10
V = A + 4" FOR A/10 < Z %%162 A/4
V = 2A + 4" FOR A/4 < Z
SPECIFY: Z - CENTERLINE OFFSET

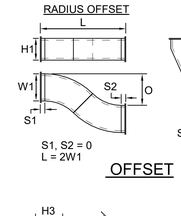
ROUND OFFSETS

MEDIUM-PRESSURE DOUBLE-WALL DUCTWORK DETAILS

NOT TO SCALE

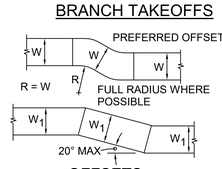


BRANCH TAKEOFFS

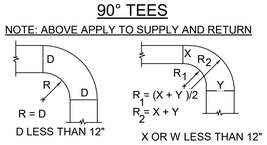


90° TEES

NOTE: ABOVE APPLY TO SUPPLY AND RETURN



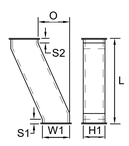
OFFSETS



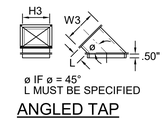
90° RADIUS ELBOWS

S1, S2 = 0
L = 2W1

OFFSET

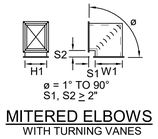


S1, S2 = 0
L = 2W1



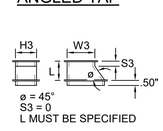
ø IF ø = 45°
L MUST BE SPECIFIED

ANGLED TAP



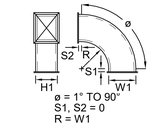
ø = 1° TO 90°
S1, S2 ≥ 2"

MITERED ELBOWS
WITH TURNING VANES



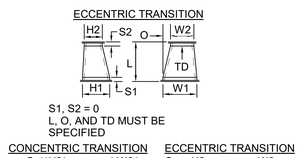
ø = 45°
S3 = 0
L MUST BE SPECIFIED

TAPS



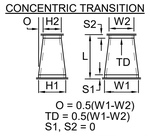
ø = 1° TO 90°
S1, S2 = 0
R = W1

90°RADIUS ELBOWS



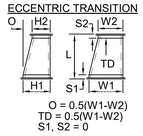
S1, S2 = 0
L, O, AND TD MUST BE
SPECIFIED

CONCENTRIC TRANSITION



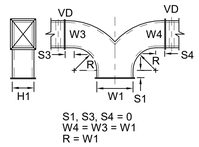
O = 0.5(W1-W2)
TD = 0.5(W1-W2)
S1, S2 = 0

ECCENTRIC TRANSITION



O = 0.5(W1-W2)
TD = 0.5(W1-W2)
S1, S2 = 0

TRANSITIONS



S1, S3, S4 = 0
W4 = W3 = W1
R = W1

Y-BRANCHES

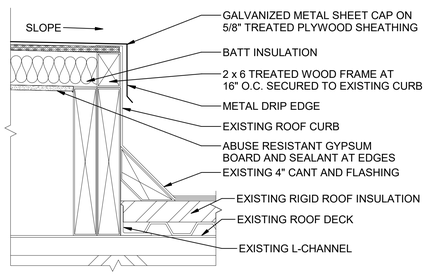
DUCTWORK CONSTRUCTION REQUIREMENTS

SYSTEM	PRESSURE CLASS	SEAL CLASS	LEAKAGE CLASS
SUPPLY AIR (MEDIUM PRESSURE)	+ 3.0" W.G.	CLASS A	RECTANGULAR - 4 ROUND - 2
SUPPLY AIR (LOW PRESSURE)	+ 1.5" W.G.	CLASS A	RECTANGULAR - 4 ROUND - 2
RETURN AIR	- 1.0" W.G.	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. ALL MEDIUM PRESSURE DUCTWORK SHALL BE LEAK TESTED (DALT) AS SPECIFIED IN 2305003.3. MEDIUM PRESSURE DUCTWORK IS DEFINED AS ANY DUCTWORK CONSTRUCTED TO +3.0" W.G. PRESSURE CLASS OR HIGHER, AND IS TYPICALLY SPECIFIED IN VAV SYSTEMS BETWEEN THE AIR HANDLING UNIT AND TERMINAL UNITS.
3. PROVIDE VOLUME DAMPERS FOR EACH BRANCH DUCT SERVING SUPPLY OR RETURN AIR TERMINAL.
4. ALL RECTANGULAR AND MITERED ELBOWS SHALL BE PROVIDED WITH TURNING VANES.
5. REFER TO SMACNA HVAC DUCT LEAKAGE MANUAL FIGURE 5-1 FOR LEAKAGE RATES.

LOW VELOCITY SINGLE-WALL RECTANGULAR DUCTWORK DETAIL

NOT TO SCALE

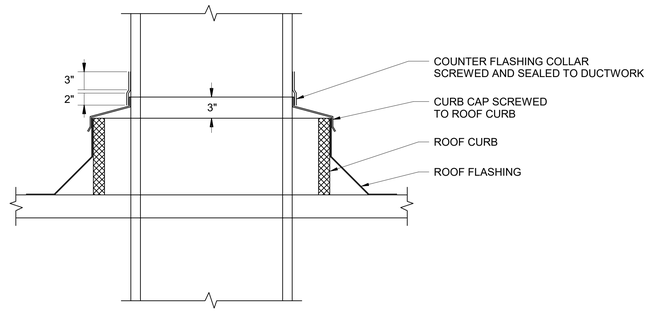


EQUIPMENT CURB DETAIL

NOT TO SCALE

LOW VELOCITY DOUBLE-WALL RECTANGULAR DUCTWORK DETAILS

NOT TO SCALE



DUCT THRU ROOF CURB DETAIL

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CAMPUS FOR STUDENT SUCCESS - MULTIPURPOSE ROOM
NEWPORT NEWS PUBLIC SCHOOLS

746 ADAMS DRIVE, NEWPORT NEWS, VIRGINIA 23601

No.	Date	Description

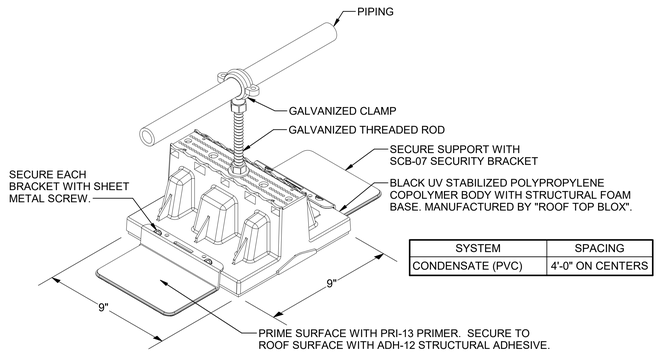
PROJECT MANAGER: KDA
DRAWN BY: JAR

ISSUED FOR BID:IFB #011-0-2026/SB
QEA No.Project Number 52406380

ISSUED FOR BID
OCTOBER 1, 2025

MECHANICAL DETAILS

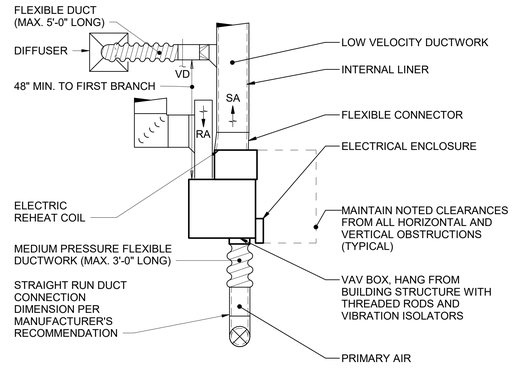
M401



SYSTEM	SPACING
CONDENSATE (PVC)	4'-0" ON CENTERS

ROOF MOUNTED PIPE SUPPORT DETAIL

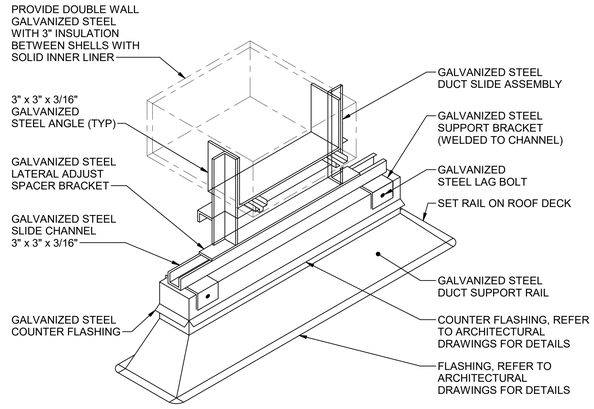
NOT TO SCALE



NOTE: EXTERNALLY INSULATE HOT WATER RE-HEAT COIL AND COIL PIPING CONNECTIONS TO PREVENT CONDENSATION ON PIPING AND U-BENDS WHEN CONTROL VALVE IS CLOSED

TYPICAL SERIES FAN POWERED VAV BOX (WITH ELECTRIC REHEAT COIL) INSTALLATION DETAIL

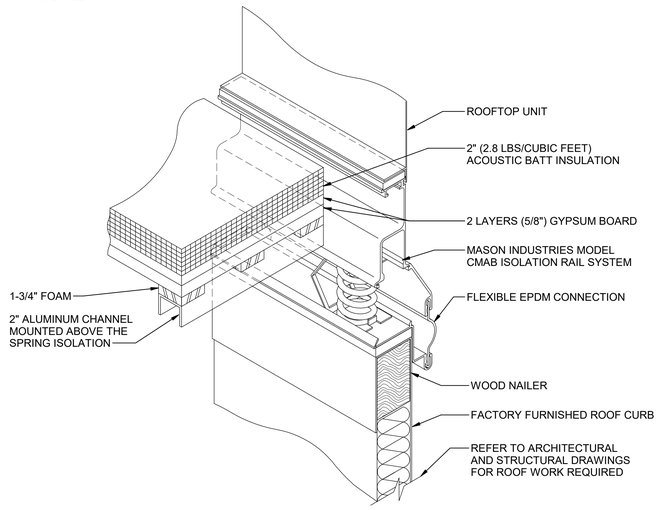
NOT TO SCALE



NOTE: DUCT SUPPORTS SHALL BE SPACED A MAXIMUM OF 4'-0" APART.

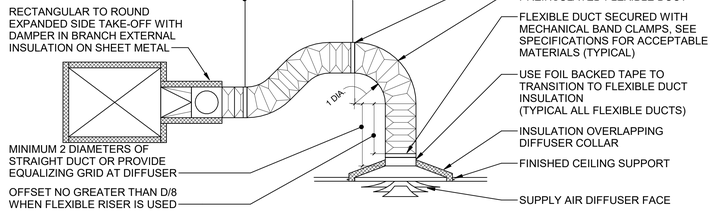
ROOF MOUNTED DUCT SUPPORT DETAIL

NOT TO SCALE



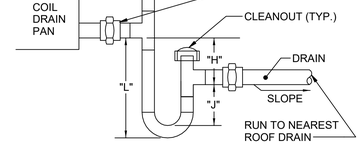
ROOFTOP UNIT MOUNTING DETAIL

NOT TO SCALE (RTU-1)



TYPICAL CEILING DIFFUSER INSTALLATION DETAIL

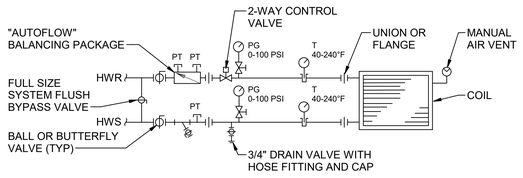
NOT TO SCALE



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)



NOTES:
1. PROVIDE FOR RTU-1.
2. ARRANGE PIPING TO PERMIT REMOVAL OF COIL IN RTU-1.

HOT WATER COIL PIPING DIAGRAM - 2 WAY VALVE

NOT TO SCALE

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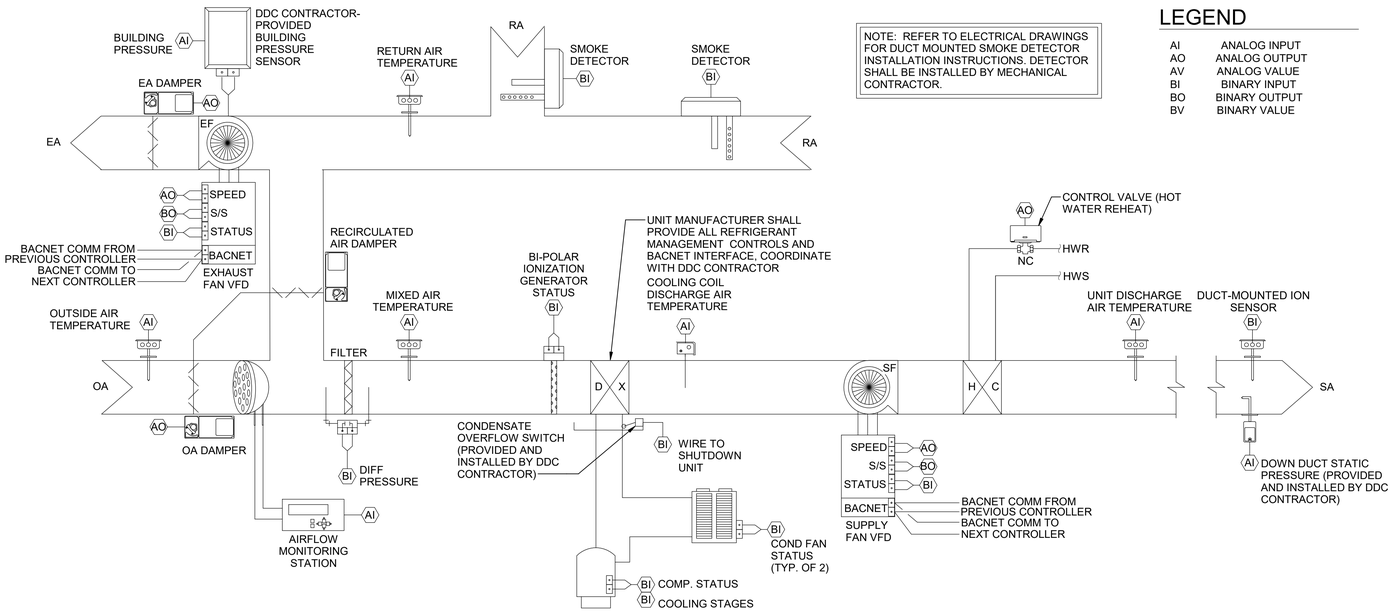
QEA No.Project Number 52406380

ISSUED FOR BID
OCTOBER 1, 2025

MECHANICAL DETAILS

M402



NOTE: REFER TO ELECTRICAL DRAWINGS FOR DUCT MOUNTED SMOKE DETECTOR INSTALLATION INSTRUCTIONS. DETECTOR SHALL BE INSTALLED BY MECHANICAL CONTRACTOR.

LEGEND

AI	ANALOG INPUT
AO	ANALOG OUTPUT
AV	ANALOG VALUE
BI	BINARY INPUT
BO	BINARY OUTPUT
BV	BINARY VALUE

PACKAGED ROOFTOP VAV AIR CONDITIONING UNIT (RTU-1) CONTROL DRAWING

GRAPHICAL USER INTERFACE MAIN SCREEN

POINT NAME	HARDWARE POINTS				SOFTWARE POINTS		TREND	ALARM	SHOW ON GRAPHIC
	AI	AO	BI	BO	AV	BV			
UNIT ENABLE				X					X
SUPPLY FAN START/STOP				X		X	X		X
SUPPLY FAN STATUS			X			X	X	X	X
SUPPLY FAN SPEED		X					X		X
EXHAUST FAN START/STOP				X		X	X		X
EXHAUST FAN STATUS			X			X	X	X	X
EXHAUST FAN SPEED		X					X		X
OUTDOOR AIR TEMP	X						X		X
COMPRESSOR STATUS	X					X	X	X	X
BUILDING PRESSURE (1)	X						X	X	X
BUILDING PRESSURE SET POINT					X		X		X
OUTSIDE AIR DAMPER POSITION		X					X	X	X
OUTSIDE AIR FLOW	X						X		X
EXHAUST AIR DAMPER POSITION		X					X		X
RETURN AIR TEMPERATURE	X						X	X	X
FILTER STATUS			X					X	X
MIXED AIR TEMPERATURE	X						X		X
BIPOLAR ION GENERATOR (1)			X				X		X
COOLING COIL DISCH. AIR TEMP.	X						X	X	X
HOT WATER CONTROL VALVE		X					X		X
DISCHARGE AIR TEMP (UNIT)	X						X	X	X
DUCT-MOUNTED ION SENSOR (1)			X				X	X	X
DOWN DUCT STATIC PRESSURE (1)	X						X	X	X
CONDENSATE SWITCH (1)			X					X	X
SMOKE DETECTOR			X					X	X
CONDENSER FAN STATUS			X			X	X	X	X

NOTES:

(1) SENSOR PROVIDED AND INSTALLED BY DDC CONTRACTOR.

(2) PROVIDE SECONDARY DATA PAGE IN GRAPHICAL USER INTERFACE CONTAINING ALL POINTS NOT LISTED ABOVE, BUT AVAILABLE THROUGH THE UNIT'S BACNET INTERFACE.

PACKAGED ROOFTOP VAV AIR CONDITIONING UNIT (RTU-1) POINTS LIST

PACKAGED ROOFTOP VAV AIR CONDITIONING UNIT (RTU-1) SEQUENCE OF OPERATION

BUILDING AUTOMATION SYSTEM INTERFACE:

THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND THE CONTROLLER OCCUPIED BYPASS, MORNING WARM-UP / PRE-COOL, AND HEAT / COOL MODES. IF COMMUNICATION IS LOST WITH THE BAS, THE CONTROLLER SHALL OPERATE USING DEFAULT MODES AND SETPOINTS. THE BAS SHALL ALSO SEND THE CONTROLLER A DUCT STATIC PRESSURE SETPOINT, DISCHARGE AIR TEMPERATURE SETPOINT, AND VENTILATION AIRFLOW SETPOINT, EACH CALCULATED BY OPTIMIZATION ROUTINES IN THE BAS.

OCCUPIED MODE

THE SUPPLY FAN SHALL RUN CONTINUOUSLY AND THE OUTSIDE AIR DAMPER SHALL OPEN TO CURRENT AIRFLOW SETPOINT. THE UNIT CONTROLLER SHALL CONTROL THE SUPPLY FAN SPEED TO MAINTAIN THE CURRENT DUCT STATIC PRESSURE SETPOINT (ADJ.).THE DX COOLING SHALL STAGE OR THE HW CONTROL VALVE SHALL MODULATE TO MAINTAIN THE CURRENT DISCHARGE AIR TEMPERATURE SETPOINT (55°F, ADJ). IF ECONOMIZING IS ENABLED, THE OUTSIDE AIR DAMPER SHALL MODULATE TO MAINTAIN THE CURRENT DISCHARGE AIR TEMPERATURE SETPOINT.

COOLING AND HEATING MODES

THE UNIT SHALL UTILIZE THE DISCHARGE AIR TEMPERATURE SENSOR AND DISCHARGE AIR TEMPERATURE SETPOINT TO DETERMINE WHEN TO INITIATE REQUESTS FOR COOLING AND HEATING. WHEN THE DISCHARGE AIR TEMPERATURE FALLS BELOW THE DISCHARGE AIR TEMPERATURE SETPOINT (55°F, ADJ.) AND THE OUTSIDE AIR DAMPER IS AT ITS MINIMUM POSITION, THE UNIT SHALL MODULATE THE HOT WATER CONTROL VALVE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT. WHEN THE DISCHARGE AIR TEMPERATURE RISES ABOVE THE DISCHARGE AIR TEMPERATURE SETPOINT, AND THE OUTSIDE AIR DAMPER IS AT ITS MINIMUM POSITION, THE UNIT SHALL MODULATE THE DX COOLING TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT.

WHEN 100% OF THE VAV TERMINAL UNITS ARE IN THE HEATING MODE, AND HOT WATER HEAT HAS BEEN ENABLED AT THE UNIT, THE UNIT SHALL RESET THE DISCHARGE AIR TEMPERATURE UP IN 2°F INCREMENTS UNTIL AT LEAST TWO OF THE VAV TERMINAL UNITS ARE NO LONGER CALLING FOR HEAT.

ECONOMIZER:

THE SUPPLY AIR SENSOR SHALL MEASURE THE DRY BULB TEMPERATURE OF THE AIR LEAVING THE EVAPORATOR COIL WHILE ECONOMIZING. WHEN ECONOMIZING IS ENABLED AND THE UNIT IS OPERATING IN THE COOLING MODE, THE ECONOMIZER DAMPER SHALL BE MODULATED BETWEEN ITS MINIMUM POSITION AND 100% TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT. THE ECONOMIZER DAMPER SHALL MODULATE TOWARD MINIMUM POSITION IN THE EVENT THE DISCHARGE AIR TEMPERATURE FALLS BELOW THE DISCHARGE LOW LIMIT TEMPERATURE SETPOINT. COMPRESSORS SHALL BE DELAYED FROM OPERATING UNTIL THE ECONOMIZER HAS OPENED TO 100%.

REFERENCE DRY BULB:

OUTSIDE AIR TEMPERATURE SHALL COMPARED WITH A REFERENCE DRY BULB SETPOINT. THE ECONOMIZER SHALL ENABLE WHEN THE OUTDOOR AIR TEMPERATURE IS LESS THAN OR EQUAL TO REFERENCE DRY BULB SETPOINT. THE ECONOMIZER SHALL BE DISABLED WHEN OUTDOOR AIR TEMPERATURE IS GREATER THAN REFERENCE DRY BULB SETPOINT + 5.0 DEG. F.

VENTILATION CONTROL:

THE OUTSIDE AIR DAMPER SHALL MODULATE TO MAINTAIN THE CURRENT VENTILATION AIRFLOW SETPOINT, AS MEASURED BY THE OUTSIDE AIRFLOW MONITORING STATION.

SUPPLY DUCT STATIC PRESSURE CONTROL:

THE DUCT STATIC PRESSURE SETPOINT SHALL BE RESET TO THE OPTIMAL SETPOINT COMMUNICATED BY THE BAS. THE BAS SHALL RESET THE DUCT STATIC PRESSURE SETPOINT BASED ON THE POSITION OF THE FURTHEST OPEN VAV DAMPER.

IF FOR ANY REASON THE SUPPLY AIR PRESSURE EXCEEDS THE SUPPLY AIR PRESSURE HIGH LIMIT, THE SUPPLY FAN SHALL SHUT DOWN. THE UNIT SHALL BE ALLOWED TO RESTART THREE TIMES AFTER A 15 MINUTE OFF PERIOD. IF THE OVERPRESSURIZATION CONDITION OCCURS ON THE FOURTH RESTART, THE UNIT SHALL SHUT DOWN AND A MANUAL RESET DIAGNOSTIC IS DISPLAYED AT THE REMOTE PANEL AND/OR THE BAS SYSTEM.

BUILDING PRESSURE CONTROL:

A DIFFERENTIAL PRESSURE TRANSDUCER SHALL ACTIVELY MONITOR THE DIFFERENCE IN PRESSURE BETWEEN THE BUILDING (INDOORS) AND OUTDOORS. IF THE BUILDING PRESSURE INCREASES ABOVE THE DIFFERENTIAL PRESSURE SETPOINT, THE UNIT CONTROLLER SHALL TURN ON THE EXHAUST FAN AND MODULATE THE EXHAUST FAN DAMPER TO CONTROL BUILDING PRESSURE TO THE DIFFERENTIAL PRESSURE SETPOINT. IF THE BUILDING PRESSURE DECREASES BELOW THE DIFFERENTIAL PRESSURE SETPOINT, THE CONTROLLER SHALL DEACTIVATE THE EXHAUST FAN.

SMOKE DETECTOR SHUTDOWN:

THE UNIT SHALL SHUT DOWN IN RESPONSE TO A SIGNAL FROM EITHER SMOKE DETECTOR INDICATING THE PRESENCE OF SMOKE. THE SMOKE DETECTORS SHALL BE INTERLOCKED TO THE UNIT THROUGH THE DRY CONTACTS OF THE SMOKE DETECTORS. A MANUAL RESET OF THE SMOKE DETECTORS SHALL BE REQUIRED TO RESTART THE UNIT.

CONDENSATE OVERFLOW ALARM:

A HARDWIRED, CONDENSATE OVERFLOW CONTACT SHALL BE ELECTRICALLY INTERLOCKED WITH THE SUPPLY FAN. THE DDC CONTROLLER SHALL CLOSE THE OUTSIDE AIR DAMPER AND AN ALARM SHALL BE ANNUNCIATED AT THE BAS.

PACKAGED ROOFTOP VAV AIR CONDITIONING UNIT (RTU-1) CONTROL DIAGRAM

NOT TO SCALE

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AUTOMATIC TEMPERATURE CONTROLS

M501

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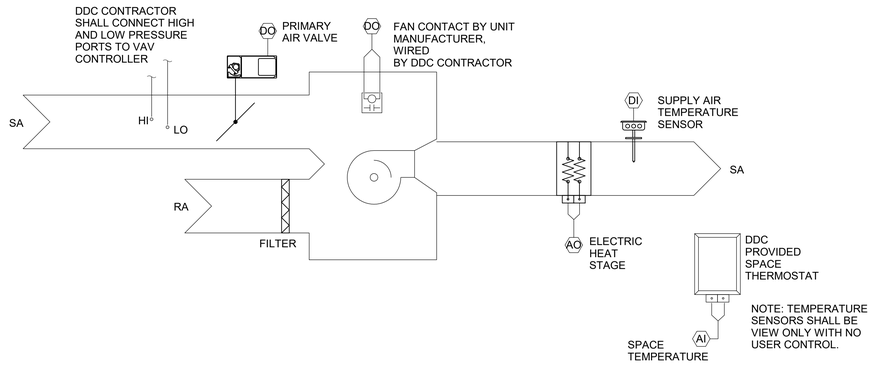


SERIES FAN POWERED TERMINAL UNIT CONTROL DRAWING

SERIES FAN POWERED TERMINAL UNIT SEQUENCE OF OPERATION

FAN POWERED SERIES VAV BOX WITH ELECTRIC RE-HEAT

1. BUILDING AUTOMATION SYSTEM INTERFACE:

   A. THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND THE CONTROLLER OCCUPIED AND UNOCCUPIED COMMANDS. THE BAS MAY ALSO SEND A HEAT/COOL MODE, PRIORITY SHUTDOWN COMMANDS, SPACE TEMPERATURE AND/OR SPACE TEMPERATURE SETPOINT. IF COMMUNICATION IS LOST WITH THE BAS, THE VAV CONTROLLER SHALL OPERATE USING ITS LOCAL SETPOINTS.

2. OCCUPANCY MODE:

   A. THE OCCUPANCY MODE SHALL BE COMMUNICATED OR HARDWIRED TO THE VAV VIA A BINARY INPUT. VALID OCCUPANCY MODES FOR THE VAV SHALL BE:

   (1) OCCUPIED: NORMAL OPERATING MODE FOR OCCUPIED SPACES OR DAYTIME OPERATION. WHEN THE UNIT IS IN THE OCCUPIED MODE THE VAV SHALL MAINTAIN THE SPACE TEMPERATURE AT THE ACTIVE OCCUPIED HEATING OR COOLING SETPOINT. APPLICABLE VENTILATION AND AIRFLOW SETPOINTS SHALL BE ENFORCED. THE OCCUPIED MODE SHALL BE THE DEFAULT MODE OF THE VAV.
   (2) UNOCCUPIED: NORMAL OPERATING MODE FOR UNOCCUPIED SPACES OR NIGHTTIME OPERATION. WHEN THE UNIT IS IN UNOCCUPIED MODE THE VAV CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE AT THE STORED UNOCCUPIED HEATING OR COOLING SETPOINT REGARDLESS OF THE PRESENCE OF A HARDWIRED OR COMMUNICATED SETPOINT. WHEN THE SPACE TEMPERATURE EXCEEDS THE ACTIVE UNOCCUPIED SETPOINT THE VAV SHALL MODULATE FULLY CLOSED.
   (3) OCCUPIED BYPASS: MODE USED TO TEMPORARILY PLACE THE UNIT INTO THE OCCUPIED OPERATION. TENANTS SHALL BE ABLE TO OVERRIDE THE UNOCCUPIED MODE FROM THE SPACE SENSOR. THE OVERRIDE SHALL LAST FOR A MAXIMUM OF 4 HOURS (ADJ.). THE TENANTS SHALL BE ABLE TO CANCEL THE OVERRIDE FROM THE SPACE SENSOR AT ANY TIME. DURING THE OVERRIDE THE UNIT SHALL OPERATE IN OCCUPIED MODE.

3. HEAT/COOL MODE:

   A. THE HEAT/COOL MODE SHALL BE SET BY A COMMUNICATED VALUE OR AUTOMATICALLY BY THE VAV. IN STANDALONE OR AUTO MODE THE VAV SHALL COMPARE THE PRIMARY AIR TEMPERATURE WITH THE CONFIGURED AUTO CHANGEOVER SETPOINT TO DETERMINE IF THE AIR IS "HOT" OR "COLD". HEATING MODE SHALL COMMAND THE VAV TO HEAT ONLY; IT IMPLIES THE PRIMARY AIR TEMPERATURE IS HOT. COOLING MODE SHALL COMMAND THE VAV TO COOL ONLY; IT IMPLIES THE PRIMARY AIR TEMPERATURE IS COLD.

4. HEAT/COOL SETPOINT:

   A. THE SPACE TEMPERATURE SETPOINT SHALL BE DETERMINED EITHER BY A LOCAL (E.G., THUMBWHEEL) SETPOINT, THE VAV DEFAULT SETPOINT OR A COMMUNICATED VALUE. THE VAV SHALL USE THE LOCALLY STORED DEFAULT SETPOINTS WHEN NEITHER A LOCAL SETPOINT NOR COMMUNICATED SETPOINT IS PRESENT. IF BOTH A LOCAL SETPOINT AND COMMUNICATED SETPOINT EXIST, THE VAV SHALL USE THE COMMUNICATED VALUE.

5. COOLING MODE:

   A. WHEN THE UNIT IS IN COOLING MODE, THE VAV CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE AT THE ACTIVE COOLING SETPOINT BY MODULATING THE AIRFLOW BETWEEN THE ACTIVE COOLING MINIMUM AIRFLOW SETPOINT TO THE MAXIMUM COOLING AIRFLOW SETPOINT. BASED ON THE VAV CONTROLLER OCCUPANCY MODE, THE ACTIVE COOLING SETPOINT SHALL BE ONE OF THE FOLLOWING:

SETPOINT	**DEFAULT VALUE**
OCCUPIED COOLING SETPOINT	74.0 DEG. F
UNOCCUPIED COOLING SETPOINT	85.0 DEG. F
OCCUPIED STANDBY COOLING SETPOINT	78.0 DEG. F
OCCUPIED MIN COOLING AIRFLOW SETPOINT	SEE VAV SCHEDULE
OCCUPIED MAX COOLING AIRFLOW SETPOINT	SEE VAV SCHEDULE

   B. THE VAV SHALL USE THE MEASURED SPACE TEMPERATURE AND THE ACTIVE COOLING SETPOINT TO DETERMINE THE REQUESTED COOLING CAPACITY OF THE UNIT. THE OUTPUTS WILL BE CONTROLLED BASED ON THE UNIT CONFIGURATION AND THE REQUESTED COOLING CAPACITY.

6. HEATING MODE:

   A. WHEN THE UNIT IS IN HEATING MODE, THE VAV CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE AT THE ACTIVE HEATING SETPOINT BY MODULATING THE AIRFLOW BETWEEN THE ACTIVE HEATING MINIMUM AIRFLOW SETPOINT TO THE MAXIMUM HEATING AIRFLOW SETPOINT. BASED ON THE VAV CONTROLLER OCCUPANCY MODE, THE ACTIVE HEATING SETPOINT SHALL BE ONE OF THE FOLLOWING:

SETPOINT	**DEFAULT VALUE**
OCCUPIED HEATING SETPOINT	71.0 DEG. F
UNOCCUPIED HEATING SETPOINT	60.0 DEG. F
OCCUPIED STANDBY HEATING SETPOINT	67.0 DEG. F
OCCUPIED MIN HEATING AIRFLOW SETPOINT	SEE VAV SCHEDULE
OCCUPIED MAX HEATING AIRFLOW SETPOINT	SEE VAV SCHEDULE

   B. THE VAV CONTROLLER SHALL USE THE MEASURED SPACE TEMPERATURE AND THE ACTIVE HEATING SETPOINT TO DETERMINE THE REQUESTED HEATING CAPACITY OF THE UNIT. THE OUTPUTS WILL BE CONTROLLED BASED ON THE UNIT CONFIGURATION AND THE REQUESTED HEATING CAPACITY.

7. CONTINUOUS FAN CONTROL:

   A. THE VAV FAN SHALL OPERATE CONTINUOUSLY IN ALL OCCUPIED MODES. DURING THE UNOCCUPIED MODE, THE PRIMARY AIR VALVE SHALL MODULATE FULLY CLOSED. THE TERMINAL FAN AND HEAT SHALL CYCLE AS NEEDED TO MAINTAIN A REDUCED SPACE TEMPERATURE.

8. REHEAT CONTROL:

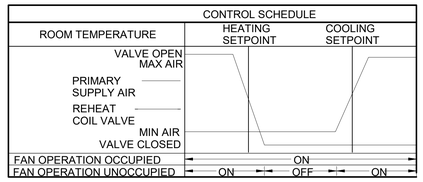
   A. REHEAT SHALL ONLY BE ALLOWED WHEN THE PRIMARY AIR TEMPERATURE IS 5.0 DEG. F BELOW THE CONFIGURED REHEAT ENABLE SETPOINT OF 70.0 DEG. F (ADJ.). THE REHEAT SHALL BE ENABLED WHEN THE SPACE TEMPERATURE DROPS BELOW THE ACTIVE COOLING SETPOINT AND THE AIRFLOW IS AT THE MINIMUM COOLING AIRFLOW SETPOINT.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

12. SPACE SENSOR FAILURE:

   A. IF THERE IS A FAULT WITH THE OPERATION OF THE ZONE SENSOR AN ALARM SHALL BE ANNUNCIATED AT THE BAS. SPACE SENSOR FAILURE SHALL CAUSE THE VAV TO DRIVE THE DAMPER TO MINIMUM AIR FLOW IF THE VAV IS IN THE OCCUPIED MODE, OR DRIVE IT CLOSED IF THE VAV IS IN THE UNOCCUPIED MODE. THE SERIES FAN SHALL BE ENABLED AND THE REHEAT WILL BE DISABLED.

SERIES FAN POWERED TERMINAL UNIT CONTROL DIAGRAM

NOT TO SCALE



POINT NAME	Hardware Points AI	AO	DI	DO	Software Points AV	BV	Trend	Alarm	Show on Graphic	DEFAULT VALUE
SPACE TEMPERATURE	X						X	X	X	
SPACE SETPOINT	X						X		X	
DISCHARGE AIR TEMPERATURE	X						X	X	X	
FAN			X				X	X	X	
ELECTRIC HEAT				X			X	X	X	
PRIMARY AIR CFM	X								X	
OCCUPANCY						X				
OCCUPIED COOLING SETPOINT						X				74°F
OCCUPIED HEATING SETPOINT						X				71°F
UNOCCUPIED COOLING SETPOINT						X				85°F
UNOCCUPIED HEATING SETPOINT						X				60°F
OCCUPIED BYPASS TIMER						X				2 HOURS
# OF SPARE POINTS	3		3	3						

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

SERIES FAN POWERED TERMINAL UNIT POINTS LIST

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COMMONWEALTH OF VIRGINIA
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CAMPUS FOR STUDENT SUCCESS - MULTIPURPOSE ROOM
NEWPORT NEWS PUBLIC SCHOOLS

746 ADAMS DRIVE, NEWPORT NEWS, VIRGINIA 23601

No.	Date	Description

PROJECT MANAGER: KDA
DRAWN BY: JAR

ISSUED FOR BID:IFB #011-0-2026/SB
QEA No.Project Number 52406380

ISSUED FOR BID
OCTOBER 1, 2025

AUTOMATIC TEMPERATURE CONTROLS

M502

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ELECTRICAL LEGEND:

LIGHTING:

- EXISTING 2' X 2' LIGHT FIXTURE.
- EXISTING 1' X 4' LIGHT FIXTURE.
- EXISTING 6" DOWNLIGHT.
- EXISTING EXTERIOR SURFACE MOUNT LIGHT FIXTURE.
- EXISTING WALL MOUNTED LED LIGHT FIXTURE, HEIGHT AS INDICATED. NUMBER SUBSCRIPT INDICATES LIGHT FIXTURE TYPE.
- EXISTING WALL MOUNTED EXIT LIGHT.
- EXISTING STAGE LIGHT BAR.
- EXISTING EMERGENCY LIGHT FIXTURE WITH SELF-CONTAINED BATTERY PACK.
- HA-2 — EXISTING LIGHTING HOMERUN TO PANEL. "HA" INDICATES PANEL NAME, "2" INDICATES CIRCUIT BREAKER NUMBER.
- HMP-1 / A, O_2 — DOWNLIGHT LED FIXTURE. WHEN SHOWN HALF SHADED, IT INDICATES LIGHT FIXTURE WITH SELF CONTAINED EMERGENCY BATTERY PACK, CONNECT BATTERY AHEAD ANY LOCAL SWITCHING. SUBSCRIPTS WHEN USED INDICATE THE FOLLOWING:
  - 2 — INDICATES LIGHT FIXTURE TYPE.
  - A — INDICATES LIGHT FIXTURE CONTROLLED BY CORRESPONDING LIGHT SWITCH WITH SUBSCRIPT "A".
  - HMP-1 — INDICATES LIGHT FIXTURE CONNECTED TO PANEL "HMP", CIRCUIT BREAKER #1.
- HMP-1 / A,NL 2
- HMP-1 / 1 — WALL MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROWS AS INDICATED. SHADED AREA INDICATES FACE-LIT WITH SELF CONTAINED EMERGENCY BATTERY PACK. "HMP-1" INDICATES LIGHT FIXTURE CONNECTED TO PANEL "HMP", CIRCUIT BREAKER #1.
- EXISTING WALL MOUNTED LIGHT FIXTURE.
- (OS) — CEILING MOUNTED, LINE VOLTAGE OCCUPANCY SENSOR, SENSOR SWITCH CATALOG NO. CMR-PDT-10 OR EQUAL.
- SA — SINGLE POLE LIGHT SWITCH. 20A, 120/277V, AC. INSTALL +46" AFF TO CENTER OF OUTLET BOX, U.O.N. SUBSCRIPT WHEN USED INDICATE THE FOLLOWING:
  - 4 — FOUR-WAY
  - 3 — THREE-WAY
  - 3D — 2000W, THREE-WAY DIMMER, COORDINATE TYPE WITH DRIVER IN LIGHT FIXTURE.
  - AD or BD — CORRESPONDING LIGHT FIXTURES CONTROLLED. 2000W, THREE-WAY DIMMER, COORDINATE TYPE WITH DRIVER IN LIGHT FIXTURE.
  - OS — SWITCH WITH LINE VOLTAGE OCCUPANCY SENSOR
  - RL — RAISE/LOWER PROJECTION SCREEN
  - K — KEY SWITCH CONTROLLER
- (35fc) — FOOT CANDLE INDICATOR.
- (P) — 2000W WALL MOUNTED PHOTOCELL, PARAGON "CW" SERIES OR APPROVED EQUAL. INSTALL ON SIDE OF CANOPY (NOT ON FRONT) AND CONCEAL ALL WIRING INSIDE CANOPY SYSTEM, SO NOT EXPOSED.

LIGHTING BRANCH CIRCUITRY SHALL BE RUN CONCEALED ABOVE CEILING, IN WALL, 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 1/2" CONDUIT. PROVIDE ADDITIONAL CONDUCTORS AS REQUIRED FOR LIGHTING CONTROLS, SWITCH LEG, THREE-WAY, AND FOUR-WAY LIGHT SWITCHES. PROVIDE ADDITIONAL UNSWITCHED 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.

FIRE ALARM SYSTEM:

- (F) — PULL STATION. INSTALL SINGLE GANG OUTLET BOX +42" A.F.F. TO CENTER. PROVIDE 3/4" CONDUIT FROM OUTLET BOX AND TERMINATE ABOVE NEAREST LAY-IN TILE CEILING. PROVIDE PULL STATION TO MATCH EXISTING MANUFACTUER OF FACP.
- EXISTING AUDIO/VISUAL DEVICE.
- (HS) 15 — CEILING MOUNTED AUDIO/VISUAL DEVICE. SEE FLOOR PLANS FOR ADDITIONAL REQUIREMENTS. SUBSCRIPT INDICATES CANDELA LEVEL.
- (S) — EXISTING SMOKE DETECTOR.
- FACP — EXISTING FIRE ALARM CONTROL PANEL.
- PROVIDE 2" EMT CONDUIT SLEEVE U.O.N. FOR AUXILIARY SYSTEMS ABOVE CEILING (QUANTIFY AS INDICATED) BUT NOT LESS THAN 4" OF CONDUIT ON EACH SIDE OF THE WALL U.O.N. CONDUITS SHALL RUN FROM ABOVE HIGH CEILING IN NEW AREA TO LOWER CEILING IN CORRIDOR. COORDINATE PATHWAY WITH FURRED OUT WALLS. PROVIDE UL APPROVED FIRE SEALS. PROVIDE BUSHINGS ON EACH SIDE.
- (D) — PROVIDE DUCT SMOKE DETECTOR WITH SAMPLING TUBES AND REMOTE TEST STATION. SEE "GENERAL FIRE ALARM NOTES" ON DRAWING E002 FOR ADDITIONAL INFORMATION.

INTERCOM SYSTEM:

- (S) — EXISTING WALL MOUNTED SPEAKER.

INTRUSION DETECTION SYSTEM:

- (MD) — EXISTING WALL MOUNTED MOTION DETECTOR.

CLOCK SYSTEM:

- EXISTING WALL MOUNTED SCHOOL CLOCK.

POWER:

- 4 C / E LMP-10 — DUPLEX RECEPTACLE, 20A, 120V, TAMPER-PROOF. INSTALL +18" A.F.F. TO CENTER OF RECEPTACLE, U.O.N. "LMP-10" INDICATES RECEPTACLE CONNECTED TO PANEL "LMP", CIRCUIT BREAKER #10. "4" WHEN USED INDICATES DOUBLE DUPLEX RECEPTACLE. "C", WHEN USED, INDICATES CEILING MOUNTED RECEPTACLE. "E", WHEN USED, INDICATES EXISTING RECEPTACLE.
- GFI,WP,LMP-10 — DUPLEX RECEPTACLE 20A, 120V, TAMPER-PROOF, WEATHER RESISTANT GROUND FAULT INTERRUPTER. "LMP-10" INDICATES RECEPTACLE CONNECTED TO PANEL "LMP", CIRCUIT BREAKER #10.
- (PB) — PULLBOX, SIZE AS REQUIRED.
- (E) — ELECTRICAL CONNECTION TO EQUIPMENT.
- (J) — JUNCTION BOX - SIZE AS REQUIRED.
- (TF) — ELECTRICAL CONNECTION TO TRANSFER FAN.
- (T) — MECHANICAL PROVIDED AND INSTALLED THERMOSTAT.
- 3P 60/40 3R — DISCONNECT SWITCH, 600V, U.O.N.: 3P=NUMBER OF POLES, 60=SWITCH RATING, 40=FUSE RATING. PROVIDE IN NEMA 1 ENCLOSURE IF INSTALLED INDOORS AND PROVIDE NEMA 3R ENCLOSURE IF INSTALLED OUT OF DOORS.
- (T) — DRY TYPE TRANSFORMER.
- PANELBOARD, 208Y/120 VOLT.
- PANELBOARD, 480Y/277 VOLT.
- WHEN SHOWN ON DRAWINGS INDICATES POWER BRANCH CIRCUITRY OR FEEDER WIRING IN CONDUIT. RUN CONCEALED ABOVE CEILING, IN WALL, BELOW FLOOR SLAB OR UNDERGROUND. NO TICK MARKS INDICATE 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 NOTES ON DRAWINGS AND PANELBOARD SCHEDULES FOR CONDUCTOR SIZES LARGER THAN #12.
- HMP-5 — WHEN SHOWN ON DRAWINGS INDICATES POWER HOMERUN BRANCH CIRCUITRY TO PANEL. "HMP" INDICATES PANEL NAME, "5" INDICATES CIRCUIT BREAKER NUMBER.
- (⊠) — MOTOR STARTER. PROVIDED BY SUPPLIER OF EQUIPMENT AND INSTALLED BY DIVISION 26.

POWER BRANCH CIRCUIT WIRING FOR ALL RECEPTACLES SHALL BE IN CONDUIT AND RUN CONCEALED ABOVE CEILING, IN WALL, BELOW FLOOR SLAB OR UNDERGROUND, U.O.N. AS A MINIMUM, EACH SINGLE-PHASE POWER CIRCUIT SHALL HAVE ONE #12 PHASE CONDUCTOR, ONE #12 NEUTRAL CONDUCTOR, AND ONE #12 GROUND CONDUCTOR IN 1/2" CONDUIT. NEUTRALS MAY NOT BE SHARED BETWEEN PHASES. NO TWO OF THE SAME PHASE CONDUCTOR PER CONDUIT. NO MORE THAN THREE (3) PHASE CONDUCTOR PLUS THREE NEUTRALS AND ONE (1) GROUND PER CONDUIT, EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE. SEE NOTES ON DRAWINGS AND PANELBOARD SCHEDULES FOR CONDUCTOR SIZES LARGER THAN #12.

TELECOMMUNICATION SYSTEM:

- (TP) E — EXISTING TEACHERS PANEL PLATE.
- E — EXISTING DATA OUTLET.
- C — EXISTING COAXIAL OUTLET.
- (W) — EXISTING CEILING MOUNTED WIRELESS ACCESS DATA OUTLET.
- (TP) — TEACHER PANEL. PROVIDE TWO-GANG OUTLET BOX. PROVIDE (1) 1" CONDUIT WITH PULLWIRE AND BUSHINGS ON EACH END. TERMINATE CONDUIT +6" ABOVE LAY-IN TILE CEILING.
- DATA OUTLET. PROVIDE SINGLE GANG OUTLET BOX WITH COVERPLATE, FOR FOUR (4) INSERTS. PROVIDE 1" CONDUIT WITH PULLWIRE FROM OUTLET BOX TO ABOVE LAY-IN TILE CEILING. PROVIDE BUSHINGS AT EACH END. INSTALL BOX +18" A.F.F. AND BESIDE RECEPTACLE.

CCTV SYSTEM:

- EXISTING INTERIOR WALL MOUNTED CCTV CAMERA.

TELECOMMUNICATION SYSTEM:

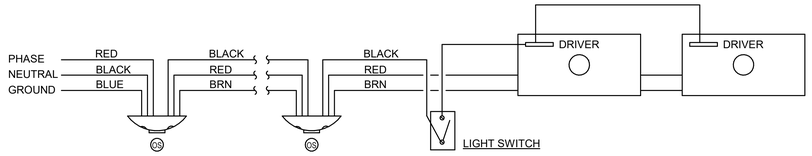
- (CR) — CARD READER. PROVIDE TWO GANG OUTLET BOX ON WALL AT +48" A.F.F FOR SECURITY SYSTEM CARD READER. CARD READER TO BE SUPPLIED BY OWNER. COORDINATE SIZE OF OUTLET BOX WITH OWNER'S SECURITY SYSTEM SUPPLIER. PROVIDE 3/4" CONDUIT WITH PULLWIRE AND BUSHINGS ON EACH END. TERMINATE CONDUIT +6" ABOVE LAY-IN TILE CEILING.
- (DC) — EXISTING SECURITY SYSTEM DOOR CONTACT POSITION SWITCH. COORDINATE REWIRE OF CONTACTS WITH OWNER'S SECURITY SYSTEM PROVIDER. PROVIDE SINGLE GANG OUTLET BOX. PROVIDE 3/4" CONDUIT WITH PULLWIRE FROM OUTLET BOX TO ABOVE LAY-IN TILE CEILING. PROVIDE BUSHINGS ON EACH END.
- (C) — CEILING MOUNTED CCTV CAMERA. PROVIDE SINGLE GANG OUTLET BOX. PROVIDE 3/4" CONDUIT WITH PULLWIRE FROM OUTLET BOX TO ABOVE LAY-IN TILE CEILING. PROVIDE BUSHINGS ON EACH END.

GENERAL:

- (D1) — DEMOLITION NOTE INDICATOR.
- (1) — NEW WORK NOTE INDICATOR.
- (102) — ROOM NUMBER INDICATOR.

ABBREVIATIONS:

AC	ALTERNATING CURRENT	MLO	MAIN LUGS ONLY
A.F.F.	ABOVE FINISHED FLOOR	MTD	MOUNTED
AIC	AMPERE INTERRUPTING CAPACITY	N.E.C.	NATIONAL ELECTRICAL CODE
&	AND	# OR NO.	NUMBER
BKR	BREAKER	PNL	PANEL
C	CONDUIT	RECEPT.	RECEPTACLE
CAT.	CATALOG	RTU	ROOF TOP UNIT
CCTV	CLOSED CIRCUIT TELEVISION	T	THERMOSTAT
CIRC. OR CKT.	CIRCUIT	TF	TRANSFER FAN
CU	COPPER	TP	TEACHER'S PANEL
EBU	EMERGENCY BACKUP UNIT	TYP.	TYPICAL
EC	ELECTRONICALLY COMMUTATED	U.O.N.	UNLESS OTHERWISE NOTED
EX	EXISTING	V	VOLT
FACP	FIRE ALARM CONTROL PANEL	VAV	VARIABLE AIR VOLUME
GFI	GROUND FAULT INTERRUPTER	W	WIRE
GND.	GROUND	WP	WEATHERPROOF
KAIC	KILO-AMPERE INTERRUPTING CAPACITY (SYMMETRICAL)	XFMR	TRANSFORMER
KCMIL	THOUSAND CIRCULAR MIL	Y	WYE
MCB	MAIN CIRCUIT BREAKER		



TYPICAL LINE VOLTAGE OCCUPANCY SENSOR WIRING DIAGRAM

NOT TO SCALE

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CAMPUS FOR STUDENT SUCCESS - MULTIPURPOSE ROOM
NEWPORT NEWS PUBLIC SCHOOLS

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No.	Date	Description

PROJECT MANAGER: -
DRAWN BY: -

ISSUED FOR BID:IFB #011-0-2026/SB
QEA No.Project Number 52406380

ISSUED FOR BID
OCTOBER 1, 2025

ELECTRICAL LEGEND AND ABBREVIATIONS

E001

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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 CONDUCTOR 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. PAINT ALL EXPOSED CONDUIT AND SURFACE METAL RACEWAY TO MATCH THE SURFACE TO WHICH ATTACHED IF THE SURFACE IS PAINTED.
3. COORDINATE WITH MECHANICAL AND PLUMBING CONTRACTOR AND DRAWINGS FOR EXACT LOCATION OF EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS INCLUDING BUT NOT LIMITED TO NUMBER OF ELECTRICAL CONNECTIONS, NUMBER AND SIZE OF FEEDERS' TERMINAL LUGS, MAXIMUM OVERCURRENT PROTECTION, AND SIZE AND TYPE OF FUSES. MAKE ADJUSTMENTS TO CONDUIT ROUTING, PLACEMENT OF DISCONNECTS AND STARTERS AS REQUIRED.
4. PROTECT BRANCH CIRCUIT WIRING FROM PAINT OVERSPRAY DURING CONSTRUCTION TO PRESERVE COLOR-CODING. CONDUCTORS PAINTED SHALL BE COMPLETELY CLEANED OF PAINT BEFORE FINAL CONNECTIONS ARE MADE.
5. VERIFY OUTLET BOX, DEVICE AND WIRING REQUIREMENTS FOR INTERCOM STATIONS, SPEAKERS AND FIRE ALARM DEVICES WITH THE EXISTING SYSTEM MANUFACTURER'S AND PROVIDE ALL MATERIAL AND LABOR REQUIRED TO EXTEND THE EXISTING SYSTEMS.
6. COORDINATE WIRING DEVICE OUTLET LOCATIONS WITH ARCHITECTURAL PLANS, ELECTRICAL PLANS, ENLARGED FLOOR PLANS, EQUIPMENT AND FURNITURE LAYOUTS, SECTIONS, ELEVATIONS, DETAILS AND JOB SITE DIFFERENCES PRIOR TO ROUGHING-IN CONDUITS. MAKE REQUIRED ADJUSTMENTS WITH ARCHITECTS AND ENGINEERS' APPROVAL.
7. INSTALL DEVICES SHOWN ON DRAWINGS IN ACCORDANCE WITH MOUNTING HEIGHTS SHOWN IN THE ELECTRICAL LEGEND AND/OR THE PROJECT SPECIFICATIONS. ALL MOUNTING HEIGHT DIMENSIONS ARE TO THE CENTER OF THE OUTLET BOX, UON. MOUNTING HEIGHTS TO CEILING SUSPENDED DEVICES ARE TO BOTTOM OF DEVICE UON. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ARCHITECT/ENGINEER.
8. INSTALL FIRE ALARM DEVICES IN ACCORDANCE WITH A.D.A. REQUIREMENTS.
9. WHERE THE TERM "BRANCH CIRCUITRY" IS USED ON THESE DRAWINGS, IT IS TO BE CONSTRUED TO MEAN CONDUIT AND CONDUCTORS.
10. PROVIDE EACH EXTERIOR RECEPTACLE WITH A "WEATHERPROOF WHILE IN USE" RATED LOCKABLE COVERPLATE.
11. ALL CIRCUIT BREAKERS REQUIRED TO SERVE TEMPERATURE CONTROL LOADS SHALL BE FURNISHED UNDER DIVISION 23 AND INSTALLED IN THE PANELBOARDS UNDER DIVISION 26.
12. PROVIDE GROUND FAULT INTERRUPTING TYPE RECEPTACLES FOR ALL LOCATIONS WITHIN 6 FEET OF A LAVATORY, SINK, WATER CLOSET, SHOWER STALL, OR ANY WATER USING APPLIANCE.
13. CIRCUIT BREAKERS SERVING SURGE PROTECTIVE DEVICES “SPD” SHALL BE LOCATED CLOSE TO THE EQUIPMENT MAIN CIRCUIT BREAKER OR MAIN LUGS WHETHER INDICATED OR NOT.
14. PROVIDE HACR RATED CIRCUIT BREAKERS FOR ALL HEATING AND AIR CONDITIONING EQUIPMENT.
15. PROVIDE GFCI CIRCUIT BREAKERS WHERE INDICATED. GFCI CIRCUIT BREAKERS SHALL BE CLASS A GROUND-FAULT PROTECTION (5-MA TRIP).
16. CIRCUIT BREAKERS SERVING HEAT TRACE AND ICE MELTING EQUIPMENT SHALL BE PROVIDED WITH A PERMANENT LOCK-OUT DEVICE.
17. PROVIDE GFEP CIRCUIT BREAKERS WHERE INDICATED. GFEP CIRCUIT BREAKERS SHALL BE CLASS B GROUND-FAULT PROTECTION (30-MA TRIP).
18. SECURE DISCONNECTS SWITCHES SERVING HVAC EQUIPMENT TO BUILDING ELEMENTS OR EQUIPMENT HOUSINGS AS INDICATED ON THE DRAWINGS. WHERE BUILDING WALLS OR EQUIPMENT HOUSINGS DO NOT PROVIDE SUITABLE MOUNTING SURFACES, PROVIDE A GALVANIZED UNISTRUT FRAME OR RACK SATISFACTORY IN SIZE TO SECURELY SUPPORT THE DISCONNECT SWITCH, MAGNETIC CONTACTOR AND/OR VFD. WHERE RACKS ARE REQUIRED TO BE ROOF MOUNTED, SECURE THE RACK TO THE ROOF IN A METHOD THAT DOES NOT COMPROMISE THE ROOF MEMBRANE IN ANY WAY. SUBMIT THE ROOF ATTACHMENT METHOD TO THE ARCHITECT / ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION OR INSTALLATION.
19. THE CONTRACTOR SHALL ONLY USE DESIGNATED AREAS WITHIN THE HVAC 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 CANNOT BE MADE WEATHERTIGHT, THE CONTRACTOR SHALL BE REQUIRED TO REPLACE THE EQUIPMENT AT HIS/HER OWN EXPENSE.
20. ALL LIGHT FIXTURES INSTALLED RECESSED IN DRYWALL CEILINGS SHALL BE PROVIDED WITH DRYWALL FLANGE KIT. THE USE OF LIGHT FIXTURES WITH BUILT-IN SCREW CLAMPS OR FLAPS WILL NOT BE ACCEPTED.
21. PROVIDE A TYPED CIRCUIT INDEX CARD FOR EACH PANELBOARD UPON COMPLETION OF INSTALLATION WORK. INDICATE LOAD SERVED AND ROOM NUMBER(S). NEW PANEL INDEX SHALL COMPLY WITH NEC ARTICLE 408.5. USE FINAL ROOM NUMBERS OBTAINED FROM THE ARCHITECT OR OWNER, NOT CONSTRUCTION ROOM NUMBERS AS SHOWN ON THE DRAWINGS.
22. THE HVAC CONTROLS BRANCH CIRCUITRY BETWEEN EACH HVAC CONTROL PANEL AND ELECTRICAL PANELS WITH CIRCUIT BREAKERS LABELED AS “HVAC CONTROLS” SHALL BE PROVIDED BY THE MECHANICAL CONTROLS CONTRACTOR. THE FINAL TERMINATION OF EACH CONTROLS BRANCH CIRCUITRY TO THE ELECTRICAL PANELS SHALL BE DONE BY THE ELECTRICAL CONTRACTOR.
23. DISCONNECT SWITCHES SHALL CONFORM TO GOVERNING INDUSTRY NEMA STANDARDS. THEY SHALL BE LISTED BY UL. DISCONNECT SWITCHES SHALL BE NEMA STANDARD HEAVY DUTY, QUICK-MAKE, QUICK-BREAK TYPE, AND CAPABLE OF BEING LOCKED IN THE OFF POSITION. WHERE DISCONNECT SWITCHES ARE INDICATED OR REQUIRED BY THE NEC TO BE WEATHERPROOF, FURNISH NEMA 3R ENCLOSURES, UNLESS INDICATED OTHERWISE. PROVIDE ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOOR WITH NEMA 3R ENCLOSURES, WHETHER INDICATED OR NOT.
24. WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, DETAILS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. NOTIFY ARCHITECT OF DISCREPANCY IN WRITING.
25. PROVIDE MAINTENANCE RECEPTACLE WITHIN 25 FEET OF EACH MECHANICAL UNIT AS REQUIRED BY NEC, WHETHER INDICATED OR NOT. COORDINATE INSTALLATION LOCATIONS WITH FINAL EQUIPMENT LAYOUT PROVIDE BY MECHANICAL CONTRACTOR.
26. 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.
27. THE CONTRACTOR SHALL INCLUDE IN HIS/HER BID THE HIRING OF THE "SEAM GROUP" TO PROVIDE SHORT CIRCUIT, COORDINATION STUDY, ARC FLASH HAZARD ANALYSIS, AND ARC FLASH LABELS. THE CONTRACTOR SHALL CONTACT JUSTIN SANDERS justin.sanders1@us.abb.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], FOR 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 AN ELECTRONIC COPY OF THE FINAL STUDY PRODUCED BY THE SEAM GROUP TO THE OWNER.
28. SPLICES, KINKS, TWISTS AND DEFECTS OF ANY NATURE WILL NOT BE ACCEPTED BY NNPS TECHNOLOGY STAFF AND THE
29. CONTRACTOR MUST, AT ITS OWN EXPENSE, REPLACE ALL SECTION OF CABLE IDENTIFIED BY NNPS.
30. NNPS TECHNOLOGY STAFF SHOULD BE CONSULTED BY CONTRACTOR FOR CHANGES THAT WILL BE MADE AND FOR GUIDANCE.
31. 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.

    IF WORK ON THE EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT REQUIRES POWER OUTAGES, THE CONTRACTOR SHALL PROVIDE A TEMPORARY GENERATOR TO SUPPORT THE EXISTING FIRE ALARM SYSTEM, SECURITY SYSTEMS (ACCESS CONTROL, INTRUSION DETECTION, CCTV), KITCHEN FREEZER/COOLER, AND INTERNET/DATA/TELEPHONE EQUIPMENT.
32. COORDINATE AND SCHEDULE ALL POWER OUTAGES IN ADVANCE WITH THE OWNER.

    CONTRACTOR SHALL USE RUBBER-BASED PIPE SUPPORT BLOCKS WITH GALVANIZED STRUT, DURA-BLOK OR EQUAL TO SUPPORT ALL CONDUITS INSTALLED ON THE ROOF. PROVIDE ALL THE REQUIRED ACCESSORIES TO SUPPORT ALL CONDUITS. PROVIDE A RUBBER ROOF MEMBRANE BARRIER EQUAL TO THE THICKNESS OF THE ROOF MEMBRANE. BARRIER SHALL BE PERMANENTLY ATTACHED TO THE BLOCK.

GENERAL DEMOLITION NOTES

1. PERFORM ALL THE REQUIRED DEMOLITION TO COMPLY WITH THE SCOPE AND INTENT OF THE PROJECT. REMOVE ALL WIRING ASSOCIATED WITH THE REQUIRED DEMOLITION BACK TO POINT OF ORIGIN OR LAST DEVICE TO REMAIN
2. VERIFY ALL CIRCUITS SAVED DURING DEMOLITION FOR REUSE AS TO WIRE SIZE AND POINT OF ORIGIN.
3. 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 ADDITIONAL COST TO THE OWNER.
4. PROVIDE THE OWNER WITH FIRST RIGHT OF REFUSAL FOR ALL ELECTRICAL EQUIPMENT BEING REMOVED AS A PART OF THIS CONTRACT AND NOT SCHEDULED FOR REINSTALLATION. ALL ELECTRICAL EQUIPMENT NOT TURNED OVER TO THE OWNER SHALL BECOME THE PROPERTY OF THE ELECTRICAL CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
5. FLUORESCENT BALLASTS IN EXISTING LIGHT FIXTURES SCHEDULED TO BE REMOVED MAY CONTAIN PCB'S. REMOVE THE BALLASTS FROM THE LIGHT FIXTURES, PROPERLY CONTAIN AND DISPOSE OF THE SAME IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS GOVERNING THE SAME.

    FLUORESCENT LAMPS IN EXISTING LIGHT FIXTURES SCHEDULED TO BE REMOVED MAY CONTAIN MERCURY. REMOVE THE
6. LAMPS FROM THE LIGHT FIXTURES, PROPERLY CONTAIN AND DISPOSE OF THE SAME IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS GOVERNING SAME.

    DURING THE REMOVAL OF EXISTING CEILINGS, SUPPORT ALL EXISTING AUXILIARY SYSTEMS CABLES (DATA, INTERCOM, TELEPHONE, TELEVISION, CCTV, ETC.) FROM STRUCTURE ABOVE EXISTING CEILING. ADJUST ROUTING OF THESE CABLES TO
7. ACCOMMODATE THE INSTALLATION OF NEW HVAC SYSTEM EQUIPMENT. RE-VERIFY THE WORKING CONDITION OF THESE CABLES AND REPLACE ALL THE CABLES FOUND DEFECTIVE AFTER REINSTALLATION, WHICH WERE WORKING PRIOR TO REMOVAL WITH CABLES TO MATCH EXISTING AT NO ADDITIONAL COST TO THE OWNER.
8. IN AREAS WHERE NO OTHER TRADES ARE INVOLVED, THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF EXISTING CEILING TILES AS REQUIRED TO INSTALL THE NEW BRANCH CIRCUITRY. REINSTALL EXISTING CEILING TILES AFTER COMPLETION OF WORK. REPLACE ALL CEILING TILES DAMAGED DURING THIS PROJECT WITH NEW TILES TO MATCH EXISTING
9. TO THE SATISFACTION OF THE ARCHITECT AND OWNER.

    PROVIDE ALL ELECTRICAL DEMOLITION WORK NECESSARY TO INSTALL NEW WORK. REROUTE AND RECONNECT ALL CIRCUIT
10. THAT IS REQUIRED TO REMAIN IN USE BUT INTERFERES WITH NEW CONSTRUCTION.

    CONDUITS MAY BE ABANDONED IN WALLS AND BELOW FIRST FLOOR SLABS ONLY. REMOVE ALL WIRING FROM ABANDONED CONDUITS. DISCONNECT CONDUCTORS FROM ALL POWER SOURCES AND PROVIDE BLANK COVERPLATES ON ALL ABANDONED OUTLET BOXES.
11. WHERE THE TERM "BRANCH CIRCUITRY" IS USED ON THESE DRAWINGS, IT IS TO BE CONSTRUED TO MEAN CONDUIT AND CONDUCTORS.
12. PROVIDE NEW TYPED PANEL INDEX CARDS IN EXISTING PANELBOARDS WHERE CIRCUITS HAVE BEEN MODIFIED BY THIS PROJECT. NEW PANEL INDEX SHALL COMPLY WITH NEC ARTICLE 408.5. PROVIDE COPIES OF MODIFIED PANEL INDEX CARDS ON AS BUILT DRAWINGS AND INCLUDED IN OPERATION AND MAINTENANCE MANUALS. PROVIDE CIRCUIT BREAKER FILLER PLATES FOR ALL CIRCUIT BREAKERS REMOVED FROM EXISTING PANELBOARDS DURING DEMOLITION WORK.

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

    IF WORK ON THE EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT REQUIRES POWER OUTAGES, THE CONTRACTOR SHALL PROVIDE A TEMPORARY GENERATOR TO SUPPORT THE EXISTING FIRE ALARM SYSTEM, SECURITY SYSTEMS (ACCESS CONTROL, INTRUSION DETECTION, CCTV), KITCHEN FREEZER/COOLER, AND INTERNET/DATA/TELEPHONE EQUIPMENT. COORDINATE AND SCHEDULE ALL POWER OUTAGES IN ADVANCE WITH OWNER.

GENERAL FIRE ALARM NOTES

1. THE EXISTING FIRE ALARM SYSTEM IS A BOSCH 9512 G SERIES ADDRESSABLE SYSTEM. NEWPORT NEWS PUBLIC SCHOOLS WILL PROVIDE ADDRESSES AND PROGRAMMING FOR THE FACP. THE FIRE ALARM CONTROL PANEL IS LOCATED IN THE MAIN MDF SPACE.
2. A CERTIFIED BOSCH FIRE ALARM SYSTEM TECHNICIAN MUST PERFORM ALL MODIFICATIONS TO THE BUILDING FIRE ALARM SYSTEM. NO SUBSTITUTIONS TO ANY REQUIRED FIRE ALARM SYSTEM EQUIPMENT WILL BE CONSIDERED. THE CONTRACTOR SHALL COORDINATE ALL COMMUNICATIONS WITH ALTRONIX.
3. ALL FIRE ALARM WORK, NEW, REMOVAL, AND REINSTALLATION OF EXISTING (WIRING DEVICES AND CONNECTING DEVICES) SHALL BE PERFORMED BE CERTIFIED BOSCH / RADIONICS INSTALLER. DOCUMENTATION OF CERTIFICATION BY COMPANY AND INSTALLER SHALL BE PROVIDED.
4. NNPS TECHNOLOGY STAFF WILL PROVIDE ADDRESSING AND VERBAL GUIDANCE ON THE ALARM CONNECTIVITY. IF QUESTIONS COME UP DURING THE PROJECT CONTACT NNPS TECHNOLOGY.
5. NNPS TECHNOLOGY STAFF WILL PROVIDE THE FIRE ALARM PANEL PROGRAMMING.
6. 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.
7. PRIOR TO ANY DISTURBANCE OF THE ALARM SYSTEMS THE SYSTEM(S) SHOULD BE PLACED ON TEST WITH OUR ALARM MONITORING CENTER.
8. NO T-TAPPING SHALL BE USED ON THE FIRE ALARM SYSTEM. CONTRACTOR SHALL REQUEST AS-BUILTS FROM OWNER FOR CURRENT CIRCUITRY.
9. IF ANY MODIFICATIONS OR DEVCE REMOVAL/REINSTALLATIONS ARE NEEDED A CITY PERMIT MUST BE PULLED FOR THE FIRE ALARM SYSTEM.
10. 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.
11. ALL AREAS IN THE BUILDING WILL BE IN USE. CONTRACTOR SHALL SCHEDULE WORK AT TIMES CONVENIENT TO THE OWNER.
12. AT NO TIME SHALL THE BUILDING BE WITHOUT AN ACTIVE FIRE ALARM SYSTEM. FIRE DEPARTMENT SHALL BE NOTIFIED WHEN THE FIRE ALARM SYSTEM IS OFF-LINE AND THE CONTRACTOR SHALL PROVIDE A FIRE WATCH AS REQUIRED BY THE E LOCAL FIRE MARSHALL.
13. PROVIDE FIRE ALARM SYSTEM WIRING IN 3/4" CONDUIT. IF SPLICING BECOMES A NECESSITY, IT SHALL BE DONE IN AN APPROPRIATELY SIZED JUNCTION BOX. PAINT THE ENTIRE JUNCTION BOX RED.
14. PROVIDE CONDUCTORS (NUMBER, SIZE AND TYPE) IN ACCORDANCE WITH THE FIRE ALARM SYSTEM MANUFACTURERS RECOMMENDATION.
15. THE FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM WIRING DIAGRAM AND SHALL INSTALL THE SYSTEM IN ACCORDANCE WITH THE WIRING DIAGRAM, THE NATIONAL ELECTRICAL CODE, AND ANY AND ALL LOCAL CODES AND ORDINANCES WHICH PERTAIN TO THE WORK.
16. PROVIDE PHOTOELECTRIC DUCT SMOKE DETECTORS WITH AIR SAMPLING TUBES. DUCT TYPE SMOKE DETECTORS SHALL ACCOMMODATE AN INTELLIGENT PHOTOELECTRIC SENSOR THAT PROVIDES CONTINUOUS ANALOG MONITORING AND ALARM VERIFICATION FROM THE FIRE ALARM CONTROL PANEL. PROVIDE AUXILIARY RELAYS/CONTACTS FOR EACH DETECTOR AS REQUIRED TO SUPPORT THE REQUIRED TEMPERATURE CONTROL FUNCTIONS. THE DUCT DETECTOR SHALL BE RATED FOR AIR DUCT VELOCITIES OF 100 TO 3000 CUBIC FEET PER MINUTE. PROVIDE SAMPLING TUBES, LENGTH AS DIRECTED BY THE MECHANICAL CONTRACTOR.
17. DUCT SMOKE DETECTORS ARE FURNISHED BY THE DIVISION 28 FIRE ALARM SYSTEM CONTRACTOR, INSTALLED IN THE DUCTWORK BY THE MECHANICAL CONTRACTOR AND CONNECTED TO THE FIRE ALARM SYSTEM BY THE DIVISION 28 FIRE ALARM SYSTEM CONTRACTOR IN ACCORDANCE WITH SECTION 606 IN THE INTERNATIONAL MECHANICALCODE. SEE ELECTRICAL AUXILIARY SYSTEMS DRAWINGS, MECHANICAL DRAWINGS AND/OR SPECIFICATIONS FOR THE QUANTITY AND LOCATION OF DUCT SMOKE DETECTORS REQUIRED.
18. PROVIDE EACH DUCT SMOKE DETECTOR WITH A REMOTE TEST STATION IN ACCORDANCE WITH NFPA 72. INSTALL REMOTE INDICATING LIGHT FLUSH IN THE CEILING BELOW THE DUCT DETECTOR.
19. LABEL ALL REMOTE INDICATING LIGHTS WITH MECHANICAL EQUIPMENT DESIGNATIONS THAT ARE ASSOCIATED WITH THE DUCT SMOKE DETECTOR.
20. CORRIDOR DOORS INSTALLED IN FIREWALLS WILL BE HELD OPEN WITH MAGNETIC HOLD OPEN DEVICES THAT WILL BE ACTIVATED BY SMOKE DETECTORS INSTALLED ON EACH SIDE OF THE DOORS. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE DOORS.
21. WHERE FIRE ALARM DEVICES ARE REMOVED AND NOT REPLACED, PROVIDE A BLANK COVERPLATE ON THE EXISTING OUTLET BOX OF SUFFICIENT SIZE TO CONCEAL ALL GAPS AROUND THE OUTLET BOX. PAINT COVERPLATE TO MATCH SURFACE ON WHICH ATTACHED.
22. PROVIDE ONLY PLENUM RATED FIRE ALARM CABLE ON THIS PROJECT. INSTALL ALL FIRE ALARM SYSTEM ABOVE LAY-IN TILE CEILINGS WITHOUT CONDUIT, U.O.N. TIE CABLES TOGETHER WITH PLENUM RATED NYLON TIE WRAPS AND SUPPORT FROM J-HOOKS OR CABLE TRAY ATTACHED TO THE WALL ABOVE THE CEILING AND BELOW EXISTING PIPING AND DUCTWORK. RUN ALL FIRE ALARM CABLES ABOVE A HARD CEILING OR IN AN EXPOSED AREA WITH NO CEILING IN 3/4" CONDUIT. IF SPLICING BECOMES A NECESSITY, IT SHALL BE DONE IN AN APPROPRIATELY SIZED JUNCTION BOX (JUNCTION BOX SHALL THEN BE PAINTED RED). ALL DOWN STREAM MODULES (I.E. ZONE ADDRESSABLE AND/OR ZONE ADAPTER MODULES) SHALL BE INSTALLED IN JUNCTION BOXES CONCEALED ABOVE LAY-IN TILE CEILINGS.
23. INSTALL ALL NEW FIRE ALARM MANUAL PULL STATIONS WITHIN 5'-0" OF EGRESS DOORS IN ACCORDANCE WITH THE NATIONAL FIRE ALARM CODE, NFPA 72.
24. PATCH OPENINGS AROUND CONDUIT THROUGH WALL PENETRATIONS ON EACH SIDE OF THE WALL WITH FIRE RATED SEALANT EQUAL OR GREATER THAN THE RATING OF THE WALL.
25. INSTALL CEILING MOUNTED SMOKE DETECTORS ON A 4" SQUARE JUNCTION BOX. CUT ACOUSTICAL TILE CEILING TO ACCOMMODATE THE JUNCTION BOX. PROVIDE ACOUSTICAL TEE 24" SPAN ELECTRICAL BOX HANGAR BY ERICO CADDY FASTENER, CATALOG NUMBER 512 OR APPROVED EQUAL FOR SUPPORT OF JUNCTION BOX.
26. PROVIDE ALL EQUIPMENT NECESSARY IN THE FIRE ALARM CONTROL PANEL TO COMPLY WITH THE FOLLOWING:
    - A. THE ACTIVATION OF ANY AUTOMATIC FIRE DETECTION DEVICE SHALL ACTIVATE A GENERAL ALARM AND TRANSMISSION OF THE SIGNAL TO AN OFF-SITE MONITORING AGENCY.
    - B. THE ACTIVATION OF THE GENERAL ALARM SHALL DE-ENERGIZE ALL DOOR HOLD OPEN DEVICES.
    - C. THE ACTIVATION OF ANY DUCT SMOKE DETECTOR SHALL ACTIVATE A GENERAL ALARM AND SHUT DOWN THE MECHANICAL EQUIPMENT ASSOCIATED WITH THE DUCT DETECTOR.
27. ALL VISUAL FIRE ALARM NOTIFICATION DEVICES SHALL FLASH IN SYNCHRONIZATION.

LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER'S CATALOG No.	VOLT	LUMENS	WATTAGE	MOUNTING	REMARKS
1	CHLORIDE ER44RLDU1R	277	WITH FIXTURE	5 W	WALL	SEE NOTE 1
2	LIGHTOLIER P6RDL50935WCDZ10U	277	5000 LUMEN LED	41 W	RECESSED	
3	DAY-BRITE FSS430L835-UNV-EMLED	277	3000 LUMEN LED	21.8 W	SURFACE	
4	RAB VANLED-20-FR-W/E2	277	2875 LUMEN LED	20 W	SURFACE	

LIGHT FIXTURE SCHEDULE NOTES:

GENERAL:

1. MATCH MOUNTING HARDWARE AND FRAME WITH THE CEILING TYPE OR CONSTRUCTION IN WHICH FIXTURE IS TO BE INSTALLED, COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS AND FINISH SCHEDULES.
2. ALL LIGHT FIXTURES COLOR SELECTIONS SHALL BE SELECTED AND APPROVED BY THE ARCHITECT PRIOR TO RELEASE.

SPECIFIC:

1. SHADING INDICATES NUMBER OF FACES LIT. INSTALL BOTTOM OF EXIT FIXTURE 6" ABOVE DOOR HEADER. FIXTURE SHALL HAVE INTERNAL EMERGENCY BATTERY.

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CAMPUS FOR STUDENT SUCCESS - MULTIPURPOSE ROOM
NEWPORT NEWS PUBLIC SCHOOLS

746 ADAMS DRIVE, NEWPORT NEWS, VIRGINIA 23601

No.	Date	Description

PROJECT MANAGER: -
DRAWN BY: -

ISSUED FOR BID:IFB #011-0-2026/SB
QEA No.Project Number 52406380

ISSUED FOR BID
OCTOBER 1, 2025

GENERAL NEW WORK, DEMO AND FIRE ALARM NOTES AND SCHEDULES

E002

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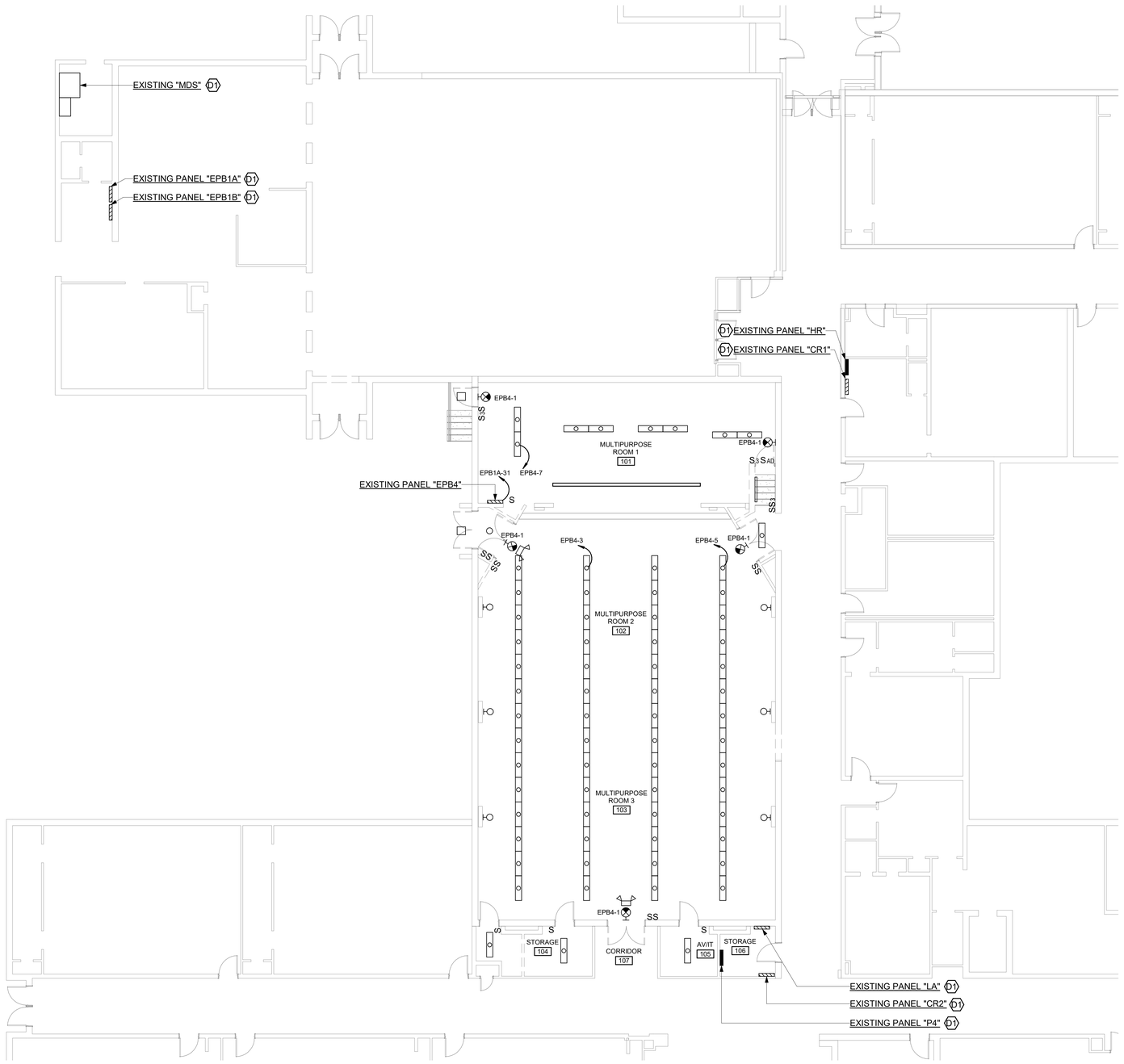
DEMOLITION NOTES	
NO.	DESCRIPTION
D1	EXISTING TO REMAIN.
D2	DISCONNECT AND REMOVE ALL CEILING MOUNTED EXIT LIGHTS, LIGHT FIXTURES, EBU LIGHT FIXTURES AND SWITCHES SHOWN ON THIS DRAWING. REMOVE BRANCH CIRCUITRY BACK TO INDICATED PANELBOARD OR POINT OF ORIGIN. ABANDON ALL CONCEALED CONDUIT IN WALLS AND ABOVE CEILING.



FLOOR PLAN - DEMOLITION - LIGHTING D2

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

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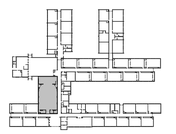
KEY PLAN:



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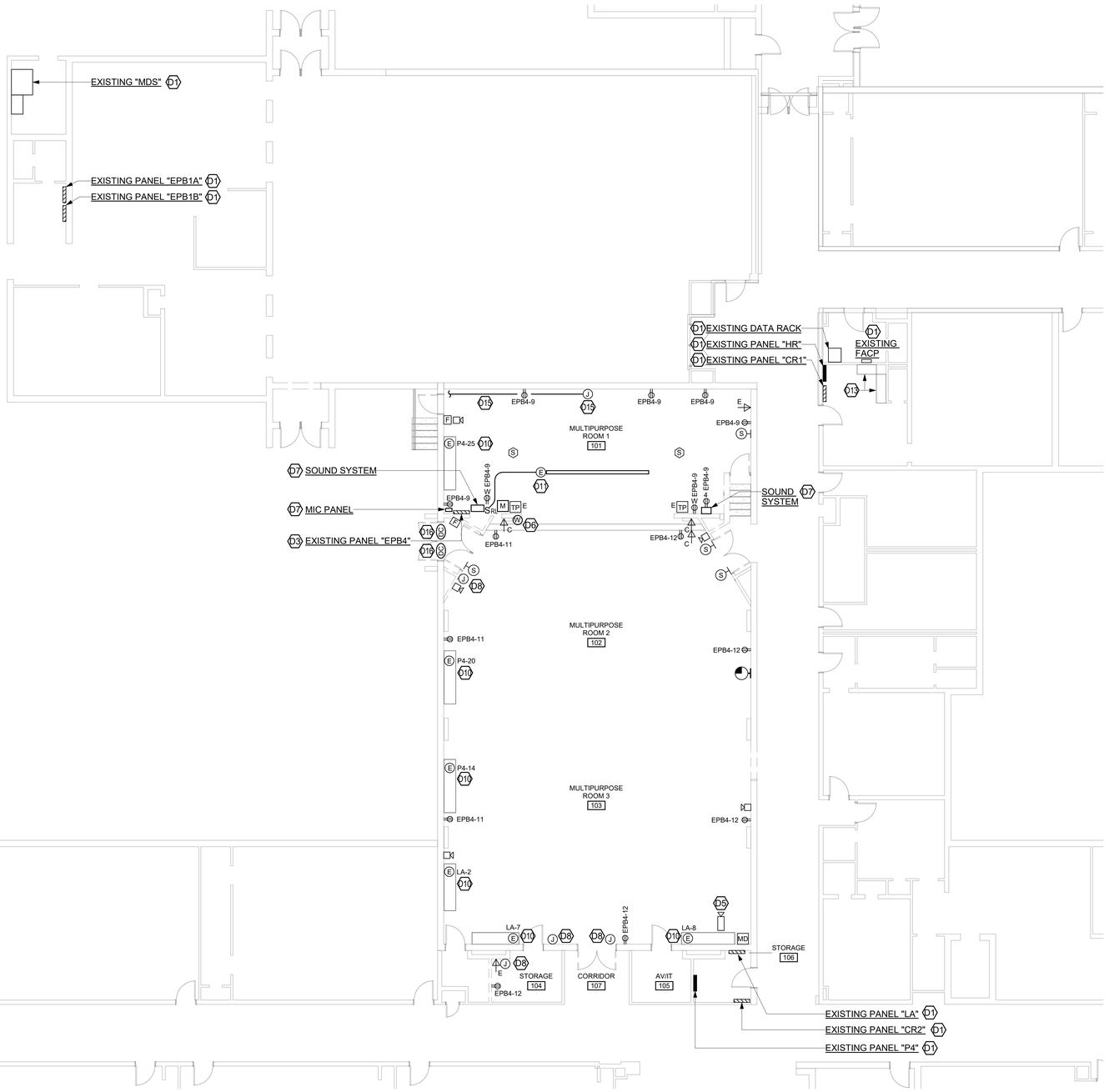
FLOOR PLAN - DEMOLITION - LIGHTING

ED101

DEMOLITION NOTES	
NO.	DESCRIPTION
D1	EXISTING TO REMAIN.
D3	REMOVE PANELBOARD COMPLETELY. REMOVE FEEDER CONDUCTORS BACK TO PANELBOARD AS INDICATED. REMOVE ALL BRANCH CIRCUITRY AND ABANDON ANY CONCEALED CONDUIT AND REMOVE ALL EXPOSED CONDUIT.
D4	DISCONNECT AND REMOVE ALL RECEPTACLES, MICROPHONE JACK, TEACHER PANELS, DATA OUTLET, COAXIAL OUTLET, CLOCK, SMOKE DETECTORS, FIRE ALARM NOTIFICATION DEVICES AND FIRE ALARM PULL STATION DEVICES, SPEAKERS AND MOTION DETECTORS SHOWN ON THIS DRAWING. REMOVE BRANCH CIRCUITRY BACK TO INDICATED PANELBOARD OR POINT OF ORIGIN. ABANDON ALL CONCEALED CONDUIT IN WALLS AND ABOVE CEILING. REMOVE ALL EXPOSED CONDUIT AND SURFACE METAL RACEWAY COMPLETELY. REMOVE WIRING BACK TO DATA RACK, INTERCOM SYSTEM OR FACP.
D5	DISCONNECT AND REMOVE WALL MOUNTED CCTV CAMERA AND SAVE FOR REUSE. SAVE ASSOCIATED CABLES ABOVE CEILING FOR REUSE. COORDINATE ALL WORK WITH OWNER'S IT REPRESENTATIVE.
D6	DISCONNECT AND REMOVE WIRELESS ACCESS POINT AND SAVE FOR REUSE. SAVE ASSOCIATED CABLES ABOVE CEILING FOR REUSE. COORDINATE ALL WORK WITH OWNER'S IT REPRESENTATIVE
D7	REMOVE ELECTRICAL PANEL AND EQUIPMENT COMPLETELY. REMOVE ALL WIRING AND DEVICES CONNECTED.
D8	REMOVE JUNCTION BOX SURFACE MOUNTED ON WALL. REMOVE WIRING BACK TO DEVICE. REMOVE ALL EXPOSED CONDUIT AND SURFACE METAL RACEWAY COMPLETELY.
D10	REMOVE ELECTRICAL CONNECTION AND BRANCH CIRCUITRY TO HVAC EQUIPMENT BACK TO INDICATED PANELBOARD. ABANDON ALL CONCEALED CONDUIT AND REMOVE EXPOSED CONDUIT COMPLETELY.
D11	REMOVE ELECTRICAL CONNECTION TO PROJECTION SCREEN. REMOVE BRANCH CIRCUITRY TO INDICATED PANELBOARD AND REMOVE RAISE/LOWER WALL MOUNTED SWITCH.
D13	REMOVE SHELVES IN THIS AREA TO ACCOMONDATE THE INSTALLATION OF A NEW PANEL AND A TRANSFORMER. HANDLE THE REMOVAL OF SHELVES WITH CARE AND TURN OVER TO OWNER FOR INSTALLATION ELSEWHERE IN THE BUILDING.
D15	REMOVE JUNCTION BOX AND CONDUIT. REROUTE CONDUCTORS AND CONDUIT IN CAFETERIA TO EQUIPMENT TO REMAIN OR ABOVE CEILING SPACE.
D16	DISCONNECT AND REMOVE SURFACE MOUNTED DOOR CONTACT AND SAVE FOR REUSE. SAVE WIRING FOR REUSE.



FLOOR PLAN - DEMOLITION - POWER, HVAC POWER AND AUXILIARY SYSTEMS D4

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

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NEWPORT NEWS PUBLIC SCHOOLS

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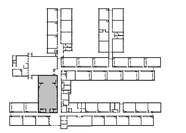
KEY PLAN:



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FLOOR PLAN - DEMOLITION - POWER AND AUXILIARY SYSTEMS

ED201

NEW WORK NOTES ☐	
NO.	DESCRIPTION
4	PROVIDE 2 #12 AND 1 #12 GND., IN 1/2" CONDUIT FROM NEW LIGHT FIXTURE TO EXISTING CORRIDOR LIGHT FIXTURE.
5	PROVIDE 2 #12 AND 1 #12 GND., IN 1/2" CONDUIT FROM NEW LIGHT FIXTURE TO NEW LIGHT FIXTURE.
25	INTERLOCK ALL LINE VOLTAGE OCCUPANCY SENSORS IN THIS SPACE SUCH THAT WHEN ANY SENSOR IS ACTUATED IT WILL ENERGIZE THE LIGHTING CIRCUIT SERVING SPACE.
28	CONNECT PHOTOCELL AHEAD OF FIXTURE TYPE 4 UNDER CANOPY.
33	COORDINATE SCREEN LOCATION SO AS NOT TO INTERFERE WITH LIGHT FIXTURES.

FLOOR PLAN - NEW WORK - LIGHTING

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

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CAMPUS FOR STUDENT SUCCESS - MULTIPURPOSE ROOM
NEWPORT NEWS PUBLIC SCHOOLS

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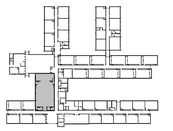
KEY PLAN:



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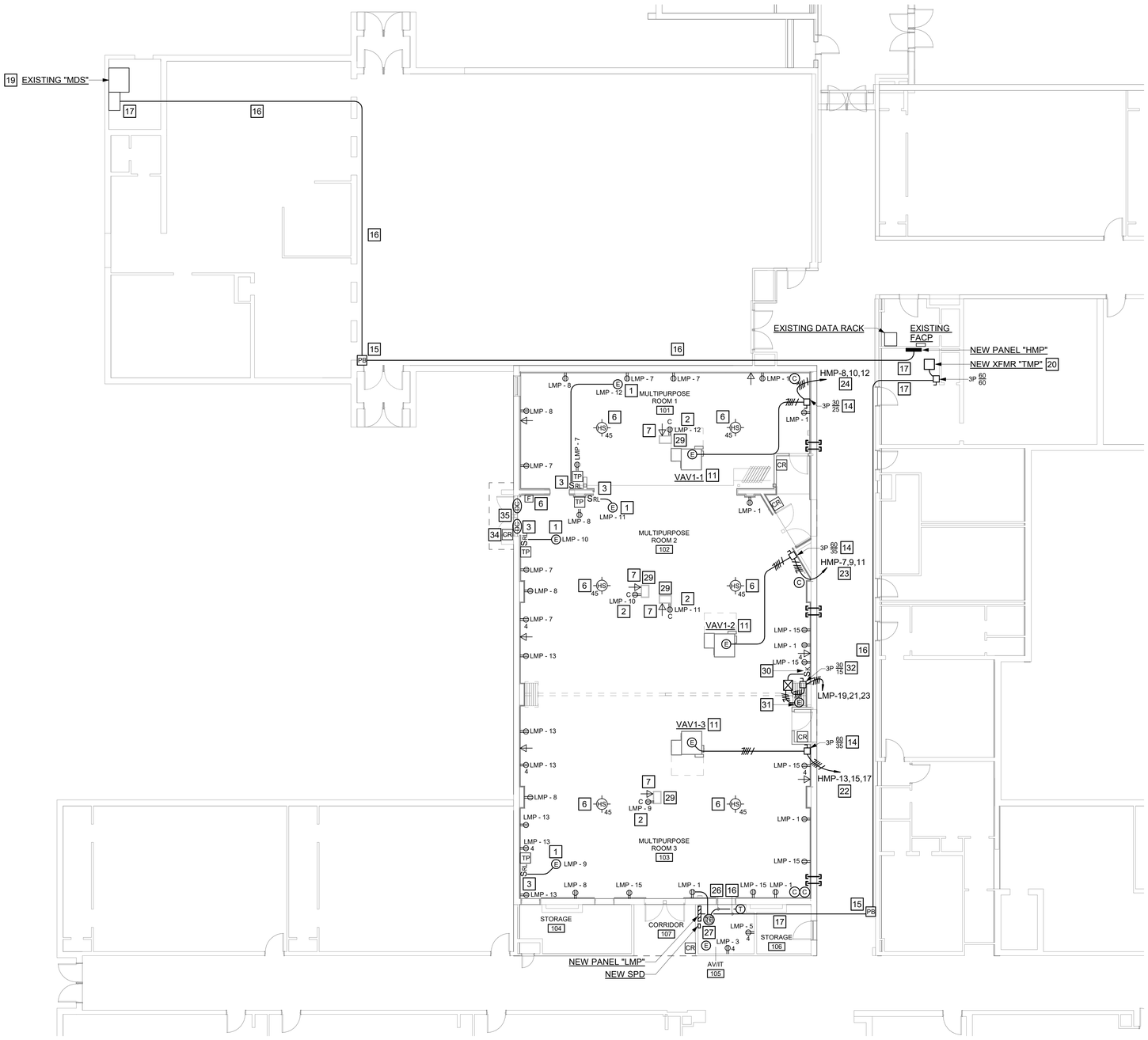
OCTOBER 1, 2025

FLOOR PLAN - NEW WORK - LIGHTING

E101

NEW WORK NOTES	
NO.	DESCRIPTION
1	PROVIDE ELECTRICAL CONNECTION TO PROJECTION SCREEN. COORDINATE WORK WITH EQUIPMENT PROVIDER.
2	COORDINATE LOCATION OF RECEPTACLE FOR PROJECTOR WITH THE OWNER. PROJECTOR PROVIDED BY OWNER; INSTALLED BY CONTRACTOR.
3	PROVIDE OUTLET BOX FOR PROJECTION SCREEN RAISE/LOWER SWITCH. INSTALL OUTLET BOX +48" A.F.F. PROVIDE 3/4" CONDUIT FROM OUTLET BOX TO PROJECTION SCREEN. PROVIDE OUTLET BOX SIZE AND CONDUCTORS AS DIRECTED BY EQUIPMENT SUPPLIER.
6	PROVIDE 3/4" CONDUIT WITH PULLWIRE FROM NEW FIRE ALARM DEVICE AND TERMINATE CONDUIT ABOVE LAY-IN TILE CEILING IN CORRIDOR. PROVIDE A NEW FIRE ALARM DEVICE AND CONDUCTORS. TERMINATE CONDUCTORS IN EXISTING FACP.
7	PROVIDE 1" CONDUIT WITH PULLWIRE FROM CEILING MOUNTED DATA OUTLET BOX AND TERMINATE CONDUIT IN EXISTING DATA RACK.
11	COORDINATE EXACT LOCATION OF ELECTRICAL CONNECTION WITH SUPPLIER OF MECHANICAL EQUIPMENT.
14	WALL MOUNTED DISCONNECT SWITCH ON INTERIOR WALL ABOVE CEILING.
15	PULLBOX; SIZE AS REQUIRED ABOVE LAY-IN TILE CEILING.
16	RUN CONDUIT ABOVE LAY-IN TILE CEILING.
17	RUN CONDUIT EXPOSED IN THIS AREA.
18	SEE "PARTIAL POWER RISER DIAGRAM - NEW WORK" ON E401 FOR ADDITIONAL INFORMATION.
19	EXISTING "MDS" IS MANUFACTURED BY WESTINGHOUSE TYPE "POW-R-LINE C", 1200 AMP, MLO, 480Y/277V, 3 PHASE, 4 WIRE WITH KAIC RATING OF 50K.
20	SEE "TRANSFORMER SCHEDULE" ON E401 FOR ADDITIONAL INFORMATION.
22	CONNECT 277 VOLT EC FAN MOTOR TO PHASE A.
23	CONNECT 277 VOLT EC FAN MOTOR TO PHASE B.
24	CONNECT 277 VOLT EC FAN MOTOR TO PHASE C.
26	RUN TRANSFER FAN BRANCH CIRCUITRY VIA WALL MOUNTED THERMOSTAT. COORDINATE WORK WITH MECHANICAL CONTRACTOR.
27	PROVIDE ELECTRICAL CONNECTION TO "TF" VIA SOLID STATE SPEED CONTROLLER.
29	PROVIDE 1" CONDUIT WITH PULLWIRE FROM PROJECTOR TO PROJECTOR CONTROL PANEL MOUNTED ON WALL. COORDINATE EXACT LOCATION OF PROJECTOR CONTROL PANEL WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION. PROVIDE OUTLET BOX SIZE AS REQUIRED FOR CONTROL.
30	PROVIDE 3/4" CONDUIT AND CONDUCTORS BETWEEN MOTOR STARTER AND KEY SWITCH CONTROL STATION. SWITCH PROVIDED BY SUPPLIER AND INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE THE EXACT LOCATION WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.
31	PROVIDE ELECTRICAL CONNECTION TO FOLDING PANEL PARTITION. CONTRACTOR SHALL REVIEW ARCHITECT SPECIFICATIONS 102239 AND MANUFACTURER'S ELECTRICAL DRAWINGS PRIOR TO ROUGH-IN AND PROVIDE ALL REQUIRED, CONDUIT, JUNCTION BOXES, WIRING FOR ALL SENSORS, FLOOR LOOP MODULES, CONTROL STATION KEY SWITCH AND ACCESSORIES REQUIRED FOR A FULLY FUNCTIONAL AND TURNKEY SYSTEM. COORDINATE ALL REQUIREMENTS WITH FOLDING PANEL PARTITION MANUFACTURERS REPRESENTATIVE PRIOR TO ROUGH-IN.
32	INSTALL DISCONNECT SWITCH ON WALL IN CLOSE PROXIMITY TO THE ELECTRICAL CONNECTION. COORDINATE EXACT LOCATION WITH SUPPLIER OF FOLDING PANEL PARTITION.
34	PROVIDE SURFACE MOUNTED OUTLET BOX. CORE DRILL WALL AND RUN CONDUIT CONCEALED TO ABOVE LAY-IN TILE CEILING.
35	REINSTALL DOOR CONTACTS SAVED DURING DEMOLITION. EXTEND WIRING SAVED DURING DEMOLITION AS REQUIRED AND CONNECT TO DOOR CONTACTS.



FLOOR PLAN - NEW WORK - POWER, HVAC POWER & AUXILIARY SYSTEMS 18

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

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COMMONWEALTH OF VIRGINIA
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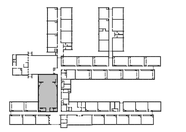
Lic. No.049752
10.01.2025
PROFESSIONAL ENGINEER

CAMPUS FOR STUDENT SUCCESS - MULTIPURPOSE ROOM
NEWPORT NEWS PUBLIC SCHOOLS

746 ADAMS DRIVE, NEWPORT NEWS, VIRGINIA 23601

KEY PLAN:



0' 2' 4' 8' 16'

No.	Date	Description
PROJECT MANAGER: -		DRAWN BY: -

ISSUED FOR BID:IFB #011-0-2026/SB
QEA No.Project Number 52406380

ISSUED FOR BID
OCTOBER 1, 2025

FLOOR PLAN - NEW WORK - POWER, HVAC POWER AND AUXILIARY SYSTEMS

E201

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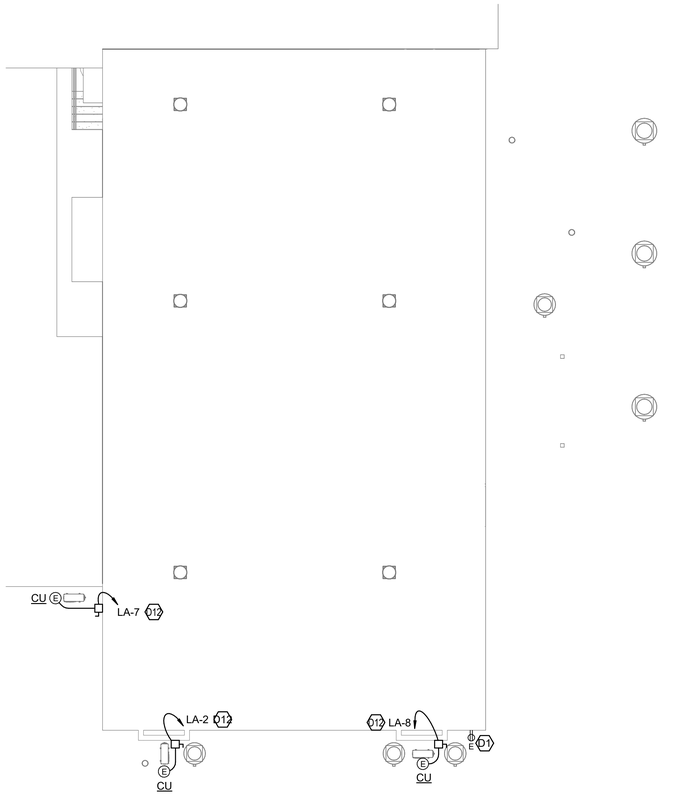
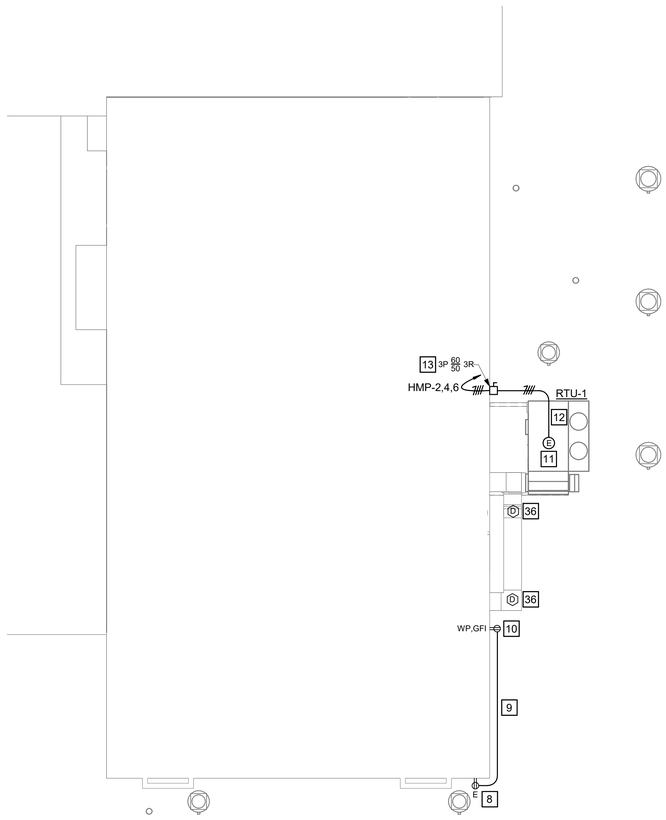
DEMOLITION NOTES ⬡	
NO.	DESCRIPTION
D1	EXISTING TO REMAIN.
D12	REMOVE ELECTRICAL CONNECTION TO MECHANICAL UNITS. REMOVE DISCONNECT SWITCH. REMOVE CONDUIT AND CONDUCTORS BACK TO PANEL INDICATED. MARK IN PANEL INDEX "SPARE".
D14	SEE ED201 FOR EXACT LOCATION OF PANEL "LA".

NEW WORK NOTES ☐	
NO.	DESCRIPTION
8	EXISTING WALL MOUNTED RECEPTACLE.
9	PROVIDE 2 #12 AND 1 #12 GND., IN 1/2" CONDUIT FROM EXISTING RECEPTACLE AND TERMINATE AT NEW WALL MOUNTED RECEPTACLE
10	WALL MOUNT EXTERIOR RECEPTACLE AT SAME HEIGHT AS EXISTING RECEPTACLE.
11	COORDINATE EXACT LOCATION OF ELECTRICAL CONNECTION WITH SUPPLIER OF MECHANICAL EQUIPMENT.
12	RUN CONDUIT AND CONDUCTORS BELOW ROOF. COORDINATE WITH MECHANICAL AS TO PATHWAY TO ELECTRICAL CONNECTION WITHIN UNIT.
13	WALL MOUNTED DISCONNECT SWITCH ON EXTERIOR WALL.
21	SEE E201 FOR EXACT LOCATION OF NEW PANEL "HMP".
36	COORDINATE EXACT LOCATION OF DUCT SMOKE DETECTOR WITH MECHANICAL DRAWINGS AND DETAILS FOR DUCTWORK SHOWN ON THE ROOF. SEE "GENERAL FIRE ALARM NOTES" FOR ADDITIONAL INFORMATION.



ROOF PLAN - DEMOLITION - HVAC POWER D14

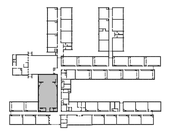
SCALE: 1/8" = 1'-0"



ROOF PLAN - NEW WORK - HVAC POWER 21

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

KEY PLAN:



0' 2' 4' 8' 16'

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NEWPORT NEWS PUBLIC SCHOOLS

746 ADAMS DRIVE, NEWPORT NEWS, VIRGINIA 23601

No.	Date	Description

PROJECT MANAGER: -
DRAWN BY: -

ISSUED FOR BID:IFB #011-0-2026/SB
QEA No.Project Number 52406380

ISSUED FOR BID
OCTOBER 1, 2025

ROOF PLANS - DEMOLITION AND NEW WORK - HVAC POWER

E301

PANEL: HMP

LOCATION:
MOUNTING: Surface
NEMA: Type 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4

KAIC RATING: 18
MAINS TYPE: M.L.O.
MAINS RATING: 400 A

CKT NO	LOAD SERVED	P	C/B TRIP	WIRE SIZE	A		B		C		WIRE SIZE	C/B TRIP	P	LOAD SERVED	CKT NO
1	LIGHTS	1	20	12	2.6	39.2									2
3	LIGHTS	1	20	12			3.4	39.2			8	50	3	RTU-1	4
5	LIGHTS	1	20	12					3.4	39.2					6
7	VAV 1-2	3	35	8	25.3	16.8									8
9							25.3	16.8			10	25	3	VAV 1-1	10
11									25.3	16.8					12
13	VAV 1-3	3	35	8	25.3	36.0									14
15							25.3	36.0			8	45	3	PANEL "LMP" VIA XFMR "TMP"	16
17									25.3	36.0					18
19	SPARE	1	20	--	0.0	160.0									20
21	SPARE	1	20	--			0.0	160.0			3/0	200	3	PANEL "HR"	22
23	SPARE	1	20	--					0.0	160.0					24
25	SPARE	1	20	--	0.0	--					--	--	1	SPACE	26
27	SPARE	1	20	--			0.0	--			--	--	1	SPACE	28
29	SPARE	1	20	--					0.0	--	--	--	1	SPACE	30
31	SPACE	1	--	--	--	--					--	--	1	SPACE	32
33	SPACE	1	--	--			--	--			--	--	1	SPACE	34
35	SPACE	1	--	--					--	--	--	--	1	SPACE	36
37	SPACE	1	--	--	--	--					--	--	1	SPACE	38
39	SPACE	1	--	--			--	--			--	--	1	SPACE	40
41	SPACE	1	--	--					--	--	--	--	1	SPACE	42
	CONNECTED LOAD (AMPS):				305 A		306 A		306 A						
	CONNECTED LOAD (KVA):				85 kVA		85 kVA		88 kVA						

TOTAL CONNECTED LOAD (KVA): 254 kVA
TOTAL ESTIMATED DEMAND LOAD (KVA): 254 kVA

NOTES:

STORAGE ROOM

PANEL: LMP

LOCATION: AV/IT 105
MOUNTING: Surface
NEMA: Type 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

KAIC RATING: 10
MAINS TYPE: M.L.O.
MAINS RATING: 100 A

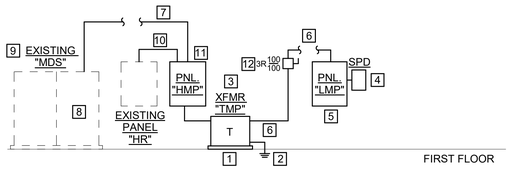
CKT NO	LOAD SERVED	P	C/B TRIP	WIRE SIZE	A		B		C		WIRE SIZE	C/B TRIP	P	LOAD SERVED	CKT NO
1	RECEPTACLES	1	20	12	10.5	1.0									2
3	RECEPTACLE	1	20	10			10.0	1.0			10	30	3	SPD	4
5	RECEPTACLE	1	20	10					10.0	1.0					6
7	RECEPTACLES	1	20	12	10.5	9.0					12	20	1	RECEPTACLES	8
9	PROJECTOR & SCREEN	1	20	12			5.7	5.7			12	20	1	PROJECTOR & SCREEN	10
11	PROJECTOR & SCREEN	1	20	12					5.7	5.7	12	20	1	PROJECTOR & SCREEN	12
13	RECEPTACLES	1	20	12	12.0	0.0					--	20	1	SPARE	14
15	RECEPTACLES	1	20	12			12.0	0.0			--	20	1	SPARE	16
17	SPACE	1	--	--					--	0.0	--	20	1	SPARE	18
19	FOLDING PANEL PARTITION	3	15	10	4.2	--					--	--	1	SPACE	20
21							4.2	--			--	--	1	SPACE	22
23									4.2	--	--	--	1	SPACE	24
	CONNECTED LOAD (AMPS):				49 A		40 A		27 A						
	CONNECTED LOAD (KVA):				6 kVA		5 kVA		3 kVA						

TOTAL CONNECTED LOAD (KVA): 13 kVA
TOTAL ESTIMATED DEMAND LOAD (KVA): 13 kVA

NOTES:

TRANSFORMER SCHEDULE

TRANSF. NO.	KVA	PRIMARY	SECONDARY	ROOM LOCATION	APPROXIMATE WT.	MOUNTING	REMARKS
XFMR "TMP"	30	480V	208Y/120	STORAGE ROOM	380 LBS.	FLOOR	K4 RATED



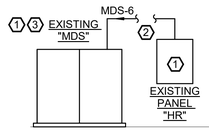
FIRST FLOOR

PARTIAL POWER RISER DIAGRAM - NEW WORK

NOT TO SCALE

POWER RISER DIAGRAM NOTES - NEW WORK:

1. PROVIDE CONCRETE HOUSEKEEPING PAD IN ACCORDANCE WITH SPECIFICATION SECTION 262200.
2. PROVIDE 1 #8 COPPER GROUNDING ELECTRODE CONDUCTOR AND CONNECT IN ACCORDANCE WITH N.E.C. ARTICLE 250.
3. PROVIDE K4 RATED, 480 VOLT DELTA PRIMARY, 208Y/120 VOLT WYE SECONDARY TRANSFORMER IN ACCORDANCE WITH TRANSFORMER SCHEDULE ON THIS DRAWING AND SPECIFICATION SECTION 262200.
4. PROVIDE SURGE PROTECTIVE DEVICE "SPD" IN ACCORDANCE WITH SPECIFICATION SECTION 264313. PROVIDE 4 #10 AND 1 #10 GND. IN 3/4" CONDUIT. CONNECT DEVICE TO CIRCUIT BREAKER INDICATED IN PANELBOARD SCHEDULES.
5. PROVIDE NEW PANEL IN ACCORDANCE WITH PANEL SCHEDULE ON THIS DRAWING AND SPECIFICATION SECTION 262416. PROVIDE THIS PANEL WITH DOUBLE NEUTRAL BUSSES.
6. PROVIDE 3 #3, 2 #3 NEUTRALS AND 1 #8 GROUND, IN 1-1/2" CONDUIT.
7. PROVIDE 3-600 KCMIL, 1-600 KCMIL NEUTRAL AND 1 #3 GND. IN 4" CONDUIT.
8. PROVIDE 400A-3P CIRCUIT BREAKER IN SPACE 6 IN THE EXISTING "MDS". PROVIDE PRL4 BLANK COVER AND BREAKER CONNECTOR KIT, BREAKER FRAME "PDG3" AND KIT "KPRL4X334S". COORDINATE ALL WORK WITH SUPPLIER OF EQUIPMENT AND PROVIDE A COMPLETE TURNKEY ASSEMBLY FOR CIRCUIT BREAKER IN EXISTING "MDS".
9. EXISTING "MDS" IS MANUFACTURED BY WESTINGHOUSE TYPE "POW-R-LINE C", 1200 AMP, MLO, 480Y/277V, 3 PHASE, 4 WIRE WITH KAIC RATING OF 50K.
10. PROVIDE 4 #3/0 AND 1#6 GROUND IN 2-1/2" CONDUIT.
11. PROVIDE NEW PANEL IN ACCORDANCE WITH PANEL SCHEDULE ON THIS DRAWING AND SPECIFICATION SECTION 262416.
12. PROVIDE NEW FUSED DISCONNECT SWITCH.



FIRST FLOOR

PARTIAL POWER RISER DIAGRAM - DEMOLITION

NOT TO SCALE

POWER RISER DIAGRAM NOTES - DEMOLITION:

1. EXISTING TO REMAIN.
2. REMOVE FEEDER CONDUIT AND CONDUCTORS BACK TO INDICATED CIRCUIT BREAKER IN MDS. ABANDON ALL CONCEALED CONDUIT IN PLACE.
3. REMOVE 200A-3P CIRCUIT BREAKER FEEDING PANEL "HR". TURN CIRCUIT BREAKER OVER TO OWNER.

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PANEL SCHEDULES AND RISER DIAGRAM

E401

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