NEW RIVER COMMUNITY AND TECHNICAL COLLEGE - ADVANCED TECHNOLOGY CENTER RENOVATION

CONCEPTUAL RENDERING



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4		
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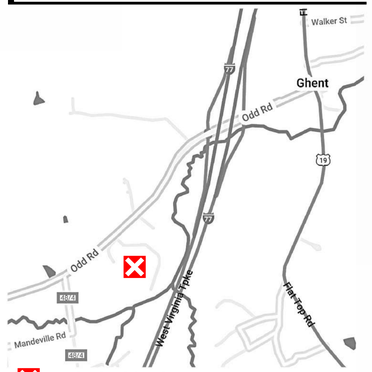
PROJECT LOCATION



PROJECT TEAM

OWNER:
West Virginia Community and Technical College System
280 University Drive
Beaver, WV 25813

(304) 929-5450

ARCHITECTURAL SERVICES:
Omni Associates, Architects
207 Jefferson Street
Fairmont, WV 26554

(304) 367-1417

CIVIL \ SITE DESIGN:
Ascent Engineering
1700 Anmore Road
Bridgeport, WV 26330

(304) 933-3463

STRUCTURAL DESIGN:
Allegheny Design Services
102 Leeway Street
Morgantown, WV 26505

(304) 599-0771

MECHANICAL, ELECTRICAL, AND PLUMBING DESIGN:
Harper Engineering
52 B Street
St. Albans, WV 25177

(304)-541-1390

PROJECT INFORMATION

BUILDING ADDRESS:
527 Odd Rd.
Ghent, WV 25843
Raleigh County

OWNER ADDRESS:
280 University Drive
Beaver, WV 25813
Raleigh County

TYPE OF WORK:
Renovation

TYPE(S) OF CONSTRUCTION:
IIB

USE\ OCCUPANCY CLASSIFICATION(S):
Business

FIRE SUPRESSION:
Full

Number of Stories above grade	2
Does this building have a basement?	No
Building Footprint Area	88,560 SF
Total Floor Area (SQ. FT.)	91,730 SF
Floor Area of New Construction	76 SF vestibule
Floor Area of Addition	76 SF vestibule
Floor Area of Renovation	76 SF
Applicable International Building Code (IBC)	2018 (IBC)
Applicable Life Safety Code	2021 (NFPA 101)

RICHARD T FORREN No. 3230 REGISTERED ARCHITECT STATE OF WEST VIRGINIA

BID DOCUMENTS
03.09.2026
REVISIONS ▼

ATC RENOVATION
NEW RIVER COMMUNITY & TECHNICAL COLLEGE
527 Odd Rd.
Ghent, WV 25843

COVER SHEET

OMNI ARCHITECTS

G-1.0

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Project No: 2024008.001 Drawn by: ---

GENERAL NOTES

1. THE GOVERNING SPECIFICATIONS FOR THIS PROJECT ARE INCLUDED IN THE CONTRACT DOCUMENTS. ANY ITEMS NOT COVERED IN THE PROJECT SPECIFICATIONS SHALL BE COVERED BY THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, STANDARD SPECIFICATIONS, ROADS AND BRIDGES, 2023 EDITION, WITH THE 2025 SUPPLEMENTAL SPECIFICATIONS. THE CONTRACT DOCUMENTS AND THE CONTRACT PLANS ARE THE GOVERNING PROVISIONS APPLICABLE TO THIS PROJECT.
2. THE CONSTRUCTION DRAWINGS REPRESENT THE PROPOSED LAYOUT, CONTOURS, UTILITIES, AND ANCILLARY ITEMS NECESSARY TO COMPLETE THE SCOPE OF WORK AS IT IS INTENDED. SOME INCIDENTAL ITEMS THAT ARE NECESSARY TO COMPLETE THE INTENDED SCOPE OF WORK MAY NOT BE SHOWN.
3. ALL WORK PERFORMED AND MATERIAL PROVIDED AND INSTALLED SHALL ADHERE TO THE CONSTRUCTION PLANS. LINES, GRADES, CROSS SECTIONS, DIMENSIONS, AND MATERIAL REQUIREMENTS SHALL BE FOLLOWED. ESTIMATED QUANTITIES ARE BASED ON THE PROJECT PLANS PROVIDED. THE CONSTRUCTION PLANS ARE SUBJECT TO VARIATION NECESSARY TO OBTAIN SUBGRADE AND/OR FINAL GRADE SATISFACTORY TO THE ENGINEER. ANY VARIATION OF THE PROJECT PLANS SHALL BE REVIEWED BY AND APPROVED BY THE ENGINEER.
4. A BOUNDARY SURVEY WAS COMPLETED IN FEBRUARY 2025 BY ASCENT CONSULTING & ENGINEERING. BASE MAPPING FOR THIS PROJECT WAS SURVEYED BY ASCENT CONSULTING & ENGINEERING IN FEBRUARY 2025. THE HORIZONTAL DATUM IS NAD83 WEST VIRGINIA STATE PLANES, SOUTH ZONE, US FOOT.
5. THE CONTRACTOR SHALL HAVE A SUPERINTENDENT ON SITE THAT IS FAMILIAR WITH THE WORK TYPE, IS COMPETENT, AND WILL COORDINATE WITH THE ENGINEER AND OWNER AS NEEDED.
6. THE CONTRACTOR SHALL VERIFY ALL PLAN ELEVATIONS AND DIMENSIONS PRIOR TO ORDERING ANY MATERIALS OR BEGINNING WORK. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND ENGINEER OF ANY VARIATION FROM PLAN.
7. THE CONTRACTOR SHALL LOCATE AND VERIFY UTILITY LOCATIONS PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL ALSO PROTECT EXISTING UTILITIES FROM DAMAGE BY EQUIPMENT OR PERSONNEL. THE CONTRACTOR SHALL CONTACT ALL UTILITY AGENCIES FOR FIELD MARKING PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND/OR OWNER IN WRITING, OF ANY EXISTING DAMAGED UTILITIES PRIOR TO BEGINNING CONSTRUCTION. ANY UTILITIES OR FACILITIES DAMAGED DURING THE PROJECT BY THE CONTRACTOR OR EQUIPMENT SHALL BE PROMPTLY REPAIRED AT THE CONTRACTOR'S EXPENSE.
8. DEPOSITING OR BURYING, ON THE SITE, DEBRIS RESULTING FROM THE CLEARING AND GRUBBING IS **PROHIBITED**. NO DEBRIS RESULTING FROM CLEARING AND GRUBBING SHALL NOT BE USED AS STRUCTURAL OR ENGINEERED FILL.
9. SHOULD UNSUITABLE SOILS BE DISCOVERED BELOW THE PLANNED GRADE/ELEVATIONS, THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED IMMEDIATELY. GENERALLY, SUCH UNSUITABLE MATERIAL MAY REQUIRE OVER-EXCAVATION EXTENDED BELOW THE REQUIRED ELEVATIONS. ANY SUCH ADDITIONAL EXCAVATION SHALL BE DIRECTED BY THE ARCHITECT AND ENGINEER.
10. COMPACTOR FOR EARTHWORK SHALL BE AS APPROPRIATE FOR THE TYPE OF SOIL MATERIAL AT THE SITE TO ACHIEVE THE COMPACTION REQUIREMENTS IN ACCORDANCE WITH CONTRACT DOCUMENTS.
11. ALL DISTURBED AREAS SHALL BE RESTORED AND GRADED TO DRAIN. THE CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS AND STOCKPILES.
12. THIS PROJECT IS PARTLY LOCATED WITHIN THE 100 YEAR FLOODPLAIN PER THE FEMA MAP. FEMA MAP 54081C0451E.

CONSTRUCTION SEQUENCE - SITE WORK

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE AND ALL PERIMETER EROSION AND SEDIMENT CONTROLS AS SHOWN ON THE PLANS AND MAINTAIN EACH FOR THE LIFE OF THE PROJECT OR UNTIL THERE IS MINIMUM 70% GROWTH ESTABLISHED OVER THE ENTIRE PROJECT AREA.
2. COMPLETE ALL ROUGH GRADING OPERATIONS.
3. INSTALL SIDEWALK.
4. REMOVE AND REPLACE EXISTING SECURITY SLIDE GATES.
5. INSTALL BASE STONE AND COMPLETE ASPHALT PAVING OPERATIONS.
6. COMPLETE PAVEMENT MARKINGS.
7. COMPLETE FINAL PROJECT CLEANUP.

EROSION AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR SHALL PROVIDE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND OTHER ACTIONS AS PER THE APPROVED PROJECT SWPPP. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING OR MODIFYING BEST MANAGEMENT PRACTICES DURING CONSTRUCTION IN ORDER TO PREVENT EROSION AND SEDIMENTATION. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER AND WASTE MANAGEMENT 2024 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL WATER POLLUTION CONTROL PERMIT FOR STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES (GENERAL PERMIT) AND THE WEST VIRGINIA EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL FOR STANDARD GUIDELINES AND SPECIFICATIONS (LATEST EDITION).
2. CONTRACTOR SHALL INSTALL RAIN GAUGE WITHIN THE PROJECT BOUNDARY OR AS REQUIRED IN THE GENERAL PERMIT.
3. CONTRACTOR SHALL INSTALL STABILIZED CONSTRUCTION ENTRANCE(S) AND MAINTAIN FOR THE LIFE OF THE PROJECT AS REQUIRED.
4. CONTRACTOR SHALL INSTALL ALL REQUIRED BEST MANAGEMENT PRACTICES (BMP) AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER, AND MAINTAIN BMP FOR THE LIFE OF THE PROJECT. ALL BMP SHALL BE MAINTAINED IN ACCORDANCE WITH THE GENERAL PERMIT AND BMP MANUAL.
5. THE PROJECT IS NOT LOCATED IN A TOTAL MAXIMUM DAILY LOAD (TMDL) IMPAIRED WATERSHED, SO ENHANCED BMP ARE NOT REQUIRED.
6. INSPECT ALL EROSION AND SEDIMENT CONTROLS AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY PRECIPITATION EVENT GREATER THAT 0.50 INCHES PER 24 HOURS PERIOD, UNLESS SUCH INSPECTIONS ARE NOT PRACTICABLE WITHIN 24 HOURS, IN WHICH CASE THAT FACT SHALL BE NOTED IN THE INSPECTION REPORT.
7. CONTRACTOR SHALL COMPLETE ANY NECESSARY BMP REPAIRS AND/OR MAINTENANCE IMMEDIATELY OR AS SOON AS PRACTICABLE AFTER THE INSPECTION. COMPLETED REPAIRS SHALL BE RE-INSPECTED NO LATER THAN THE NEXT INSPECTION DATE. IF REPAIRS CANNOT BE COMPLETED BETWEEN INSPECTIONS, THAT FACT SHALL BE EXPLAINED ON THE INSPECTION REPORT AND SUCH EXPLANATION SHALL INCLUDE AN ANTICIPATED COMPLETION DATE.
8. STRIP AND STOCKPILE TOPSOIL TO BE RE-SPREAD IN DISTURBED AREAS UPON COMPLETION OF EARTH MOVING OPERATIONS. TOPSOIL SHALL BE RE-DISTRIBUTED ON ALL DISTURBED AREAS TO BE STABILIZED PRIOR TO SEEDING.
9. CONTRACTOR SHALL STABILIZE ALL EMBANKMENTS UPON COMPLETION. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN SEVEN (7) CALENDAR DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS PERMANENTLY CEASED. TEMPORARY SEED AND MULCH SHALL BE APPLIED TO AREAS THAT WILL NOT BE RE-DISTURBED FOR MORE THAN TWENTY-ONE (21) CALENDAR DAYS. PERMANENT SEED AND MULCH SHALL BE APPLIED TO AREAS AT FINISH GRADE.
10. WHERE THE INITIATION OF STABILIZATION MEASURES WITHIN SEVEN (7) CALENDAR DAYS AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS CONDITIONS ALLOW.
11. WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN TWENTY-ONE (21) CALENDAR DAYS FROM WHEN ACTIVITIES CEASED (E.G., THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY HALTED IS LESS THAN TWENTY-ONE (21) CALENDAR DAYS), THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH (7TH) DAY AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED.
12. SEEDBED PREPARATION: AREAS TO BE SEEDED SHALL BE FREE OF ROCKS AND STONES, DISKED TO A DEPTH OF 4-IN TO 6-IN, AND SMOOTHLY GRADED.
13. SEEDING METHOD: SEED MAY BE BROADCAST BY HYDROSEEDER OR MANUALLY AS FOLLOWS: BY HAND WITH A CYCLONE SEEDER, OR FERTILIZER SPREADER. IF A MANUAL METHOD IS USED, DIVIDE THE SEED INTO TWO LOTS AND BROADCAST THE SECOND PERPENDICULAR TO THE FIRST.
14. AREAS WHERE THE SEED HAS FAILED TO GERMINATE ADEQUATELY (UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70%) WITHIN THIRTY (30) CALENDAR DAYS AFTER SEEDING AND MULCHING MUST BE RE-SEEDED IMMEDIATELY, OR AS SOON AS WEATHER CONDITIONS ALLOW.
15. TEMPORARY STABILIZATION

DATES:	MARCH 1 THROUGH JUNE 15
SEED:	OATS @ 168 LB/AC
DATES:	AUGUST 15 THROUGH NOVEMBER 1
SEED:	RYE @ 120 LB/AC
FERTILIZER:	10-10-10 @ 400 LB/AC
NOTE:	FOR STABILIZATION OUTSIDE SEEDING DATES, USE HAY OR STRAW MULCH AT 3 TONS/AC OR AT 2 TONS/AC IF ASPHALT EMULSION IS APPLIED AT 100 GAL/AC.

16. PERMANENT STABILIZATION

DATES:	MARCH, APRIL, AUGUST, & SEPTEMBER
SEED:	KY-31 TALL FESCUE @ 50 LB/AC
FERTILIZER:	10-20-10 @ 1000 LB/AC
LIME:	3 TONS/AC OR PER SOIL TEST RESULTS
MULCH:	HAY OR STRAW @ 2 TONS/AC OR @ 1.5 TONS/AC WITH ASPHALT EMULSION @ 125 GAL/AC

CONTACTS

MISS UTILITY
800-245-4848
www.wv811.com

NATIONAL RESPONSE CENTER FOR REPORTING CHEMICAL OR OIL SPILLS
800-424-8802

STATE EMERGENCY SPILL NOTIFICATION
800-642-3074

AMBULANCE, FIRE, LAW ENFORCEMENT
911

ASCENT CONSULTING AND ENGINEERING
MICHAEL NESTOR, P.E., PROJECT MANAGER
mnestor@ascentwv.com
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1700 ANMOORE RD
BRIDGEPORT, WV 26330

NEW RIVER COMMUNITY AND TECHNICAL COLLEGE
527 ODD ROAD,
GHENT, WV 25843
866-349-3739

RALEIGH COUNTY STORMWATER MANAGEMENT
116 N. HEBER STREET
BECKLEY, WV 25801
304-255-9173

RALEIGH COUNTY PLANNING & ZONING
116 N. HEBER STREET
BECKLEY, WV 25801
304-255-9173

AMERICAN ELECTRIC POWER COMPANY
800-956-4237

SUDDENLINK COMMUNICATIONS
304-860-1905

FRONTIER COMMUNICATIONS
800-921-8101

FIBERLIGHT
844-509-0775

COOL RIDGE - FLAT TOP PSD
304-763-4151

SHADY SPRING PSD
304-255-1565

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18467
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3/9/26

BID DOCUMENTS
03.09.2026

ASCENT Consulting & Engineering

ATC RENOVATION
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527 Odd Rd.
Ghent, WV 25843

GENERAL NOTES

OMNI ARCHITECTS

C-1.0

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Project No: 2024008.001 Drawn by: DTM

LEGEND

- EXISTING STREAM
- EXISTING CONTOURS
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- EXISTING FENCE LINE
- EXISTING EDGE OF BUILDING
- F/O EXISTING FIBER OPTIC
- SAN EXISTING SANITARY LINE
- S EXISTING CULVERT
- EXISTING POND

DWELLING

ODD ROAD RALEIGH COUNTY ROUTE 48

EX. ASPHALT DRIVEWAY

EX. ABOVE GROUND STORAGE TANKS

EX. SECURITY GATE TO BE REPLACED

EX. UTILITY BOX

EX. FIBER OPTIC MARKER

EX. FIBER OPTIC LINE

EX. SANITARY SEWER LINE

EX. SANITARY SEWER MANHOLE RIM=2980.80' INV.=FULL

EX. SEWER SHUTOFF

EX. FENCE LINE

EX. 24" CPP CULVERT INV=2976.29'

EX. GRAVEL LOT

EX. UTILITY POLES FOR COMMUNITY & TECHNICAL COLLEGE

EX. CATCH BASIN RIM=2984.48' INV.=2,980.15'(SE-24"CPP) INV.=2,980.15'(SW-24"CPP)

EX. CATCH BASIN RIM=2981.35' INV.=2977.50'(NW-24"CPP) INV=2977.50'(SE-24"CPP) INV.=2,977.62'(SW-8"PVC)

EX. GUY POLES FOR COMMUNITY & TECHNICAL COLLEGE

EX. CONCRETE (TYP.)

EX. EXPOSED DRAIN PIPE

EX. CATCH BASIN RIM=2984.07 INV.=2980.17'(NE-24"CPP) INV.=2980.52'(SE-8"PVC)

EX. STORM CULVERT

EX. UNPAVED AREA

EX. UTILITY POLE

EX. OVERHEAD ELECTRIC

EX. UNDERGROUND ELECTRIC CONDUIT

EX. 15" CPP CULVERT INV=2989.09

EX. PEDESTAL #200/4/1

EX. LIGHT POLE

EX. PEDESTAL

EX. DRAINAGE DITCH

EX. PIPE BOLLARD

EX. GENERATOR

EX. OUTBUILDING

EX. EXPOSED UNDERGROUND ELECTRIC

EX. UTILITY BOX

EX. SEWAGE GRINDER PUMP

EX. POND AVERAGE WATER LEVEL=2975.38'

EX. 3" PVC CULVERT INV=2976.32'

EX. 2" PLASTIC CULVERT INV=2978.96'

EX. 10" CPP CULVERT INV=2976.37'

FF EL=2985.93'

FF EL=2985.88'

EX. GAS METER

EX. FRAME BUILDING

EX. A/C UNITS

EX. ASPHALT PARKING LOT

EX. GRAVEL LOT

EX. CLEANOUT

EX. UTILITY BOX

EX. BUILDING

EX. BUILDING

EX. BUILDING

FF EL= 2986.20'

EX. CONCRETE PAD

EX. SECURITY GATE TO BE REPLACED

EX. BUILDING

EX. CATCH BASIN RIM=2980.53' INV.=NOT ACCESSIBLE

EX. GRAVEL LOT

EX. STREAM

EX. POND AVERAGE WATER LEVEL=2980.83'

WEST VIRGINIA TURNPIKE ROUTE 77

3000 2990 2986 2982 2980 2978 2976 2974 2972 2970

N

50 0 50 100

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EXISTING CONDITIONS

OMNI ARCHITECTS

C-2.0

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LEGEND

- EXISTING STREAM
- EXISTING CONTOURS
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- EXISTING FENCE LINE
- EXISTING EDGE OF BUILDING
- EXISTING FIBER OPTIC
- EXISTING SANITARY LINE
- EXISTING CULVERT
- EXISTING POND
- PROPOSED HANDICAP PARKING
- PROPOSED EDGE OF PAVEMENT
- PROPOSED PARKING
- PROPOSED GREEN SPACE
- PROPOSED ASPHALT

NOTE: ALL CIVIL ITEMS DEPICTED TO BE INCLUDED IN BASE BID #1

REPLACE WITH LIFTMASTER CSL24ULWK
SLIDE GATE OPERATOR; OR APPROVED EQUAL
(SLIDE GATE TO BE CONSTRUCTED WITH MATERIALS
MATCHING THAT OF THE EXISTING FENCE)

EXISTING GRAVEL AREA TO BE
REWORKED ACCORDING TO DETAIL ON SHEET C5.2
APPROXIMATELY 36,350 SY
(EXISTING FENCE WITHIN GRAVEL AREAS NOT TO
BE DISTURBED OR DAMAGED)

REPLACE WITH LIFTMASTER CSL24ULWK
SLIDE GATE OPERATOR; OR APPROVED EQUAL
(SLIDE GATE TO BE CONSTRUCTED WITH MATERIALS
MATCHING THAT OF THE EXISTING FENCE)

PROPOSED WHEEL STOPS (5)

REMOVE AND DISPOSE EX.
CONCRETE SIDEWALK

PROPOSED BUILDING ADDITION (TYP)

PROPOSED SIDEWALK (TYP)

PROPOSED PAVED PARKING LOT
(TYPICAL ASPHALT PAVEMENT SECTION)
APPROXIMATELY 4,700 SY;
ALL EDGES ADJACENT TO EXISTING PAVEMENT ARE
TO TIE INTO EXISTING PAVEMENT

PROPOSED HANDICAP
PARKING TO BE RESTRIPED

PROPOSED WHEEL STOPS ALONG OUTSIDE
EDGE OF PARKING AREA (43)

EXISTING GRAVEL AREA OUTSIDE
OF PROPOSED ASPHALT TO BE RETURNED
TO LANDSCAPING OR SEED & MULCHED.

REPLACE WITH LIFTMASTER CSL24ULWK
SLIDE GATE OPERATOR; OR APPROVED EQUAL
(SLIDE GATE TO BE CONSTRUCTED WITH MATERIALS
MATCHING THAT OF THE EXISTING FENCE)

N

50 0 50 100

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SITE PLAN-BASE BID-BID ITEM #1

OMNI ARCHITECTS

C-3.0

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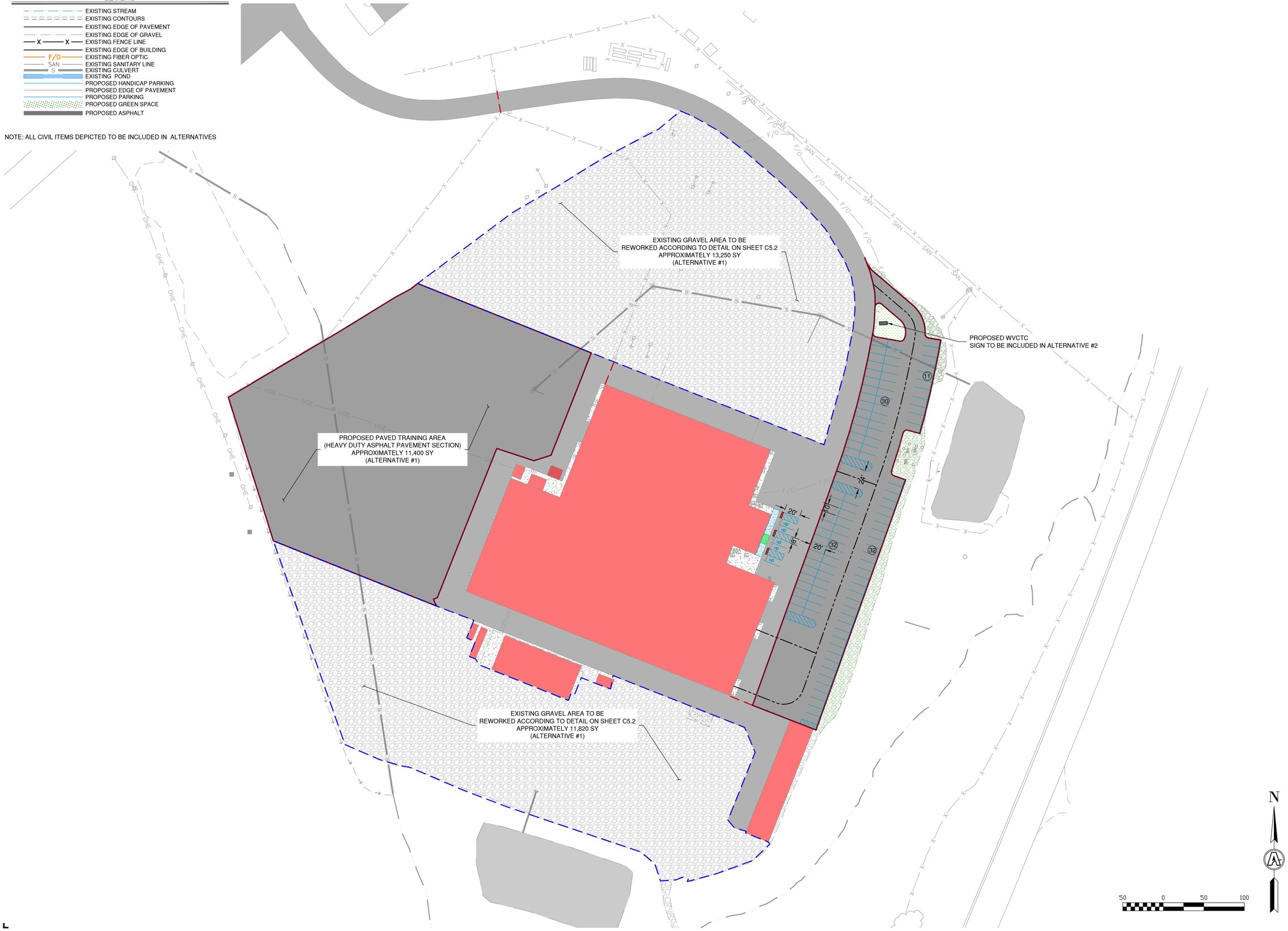
LEGEND

- EXISTING STREAM
- EXISTING CONTOURS
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- EXISTING FENCE LINE
- EXISTING EDGE OF BUILDING
- EXISTING FIBER OPTIC
- EXISTING SANITARY LINE
- EXISTING CULVERT
- EXISTING POND
- PROPOSED HANDICAP PARKING
- PROPOSED EDGE OF PAVEMENT
- PROPOSED PARKING
- PROPOSED GREEN SPACE
- PROPOSED ASPHALT

NOTE: ALL CIVIL ITEMS DEPICTED TO BE INCLUDED IN ALTERNATIVES



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SITE PLAN- ALTERNATE BID

OMNI
ARCHITECTS

C-3.1

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LEGEND

- EXISTING STREAM
- EXISTING CONTOURS
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- EXISTING FENCE LINE
- EXISTING EDGE OF BUILDING
- EXISTING FIBER OPTIC
- EXISTING SANITARY LINE
- EXISTING CULVERT
- EXISTING POND
- PROPOSED HANDICAP PARKING
- PROPOSED EDGE OF PAVEMENT
- PROPOSED PARKING
- PROPOSED GREEN SPACE
- PROPOSED ASPHALT

NOTE:
1. ALL EXCESS CUT MATERIAL IS TO BE WASTED ON-SITE (SEE SHEET C4.1)
2. ALL CIVIL ITEMS DEPICTED TO BE INCLUDED IN BASE BID #1

DWELLING
EX. ABOVE GROUND STORAGE TANKS
EX. ASPHALT DRIVEWAY
EX. UTILITY BOX
REPLACE WITH LIFTMASTER CSL24ULWK SLIDE GATE OPERATOR; OR APPROVED EQUAL (CARD READER TO TIE INTO EXISTING POWER & FIBER OPTICS LINES)
EX. FIBER OPTIC MARKER
EX. FIBER OPTIC LINE
EX. SANITARY SEWER LINE
EX. GRAVEL LOT
PROPOSED INLET PROTECTION (TYP.)
EX. CATCH BASIN RIM=2984.48' INV.=2,980.15'(SE-24"CPP) INV.=2,980.15'(SW-24"CPP)
EX. UTILITY POLES FOR COMMUNITY & TECHNICAL COLLEGE
EX. CATCH BASIN RIM=2981.35' INV.=2977.50'(NW-24"CPP) INV=2977.50'(SE-24"CPP) INV.=2,977.62'(SW-8"PVC)
EX. SANITARY SEWER MANHOLE RIM=2980.80' INV.=FULL
EX. UNPAVED AREA
EX. CATCH BASIN RIM=2984.07' INV.=2980.17'(NE-24"CPP) INV.=2980.52'(SE-8"PVC)
EX. GUY POLES FOR COMMUNITY & TECHNICAL COLLEGE
EX. SEWER SHUTOFF
EX. FENCE LINE
EX. 24" CPP CULVERT INV=2976.29'
EX. STORM CULVERT
EX. EXPOSED DRAIN PIPE
EX. UNDERGROUND ELECTRIC CONDUIT
EX. PIPE BOLLARD
EX. EXPOSED UNDERGROUND ELECTRIC
EX. 15" CPP CULVERT INV=2989.09
EX. GENERATOR
REPLACE WITH LIFTMASTER CSL24ULWK SLIDE GATE OPERATOR; OR APPROVED EQUAL (CARD READER TO TIE INTO EXISTING POWER & FIBER OPTICS LINES)
FF EL=2985.93'
FF EL=2985.88'
EX. ASPHALT PARKING LOT
EX. FRAME BUILDING
EX. POND AVERAGE WATER LEVEL=2975.38'
EX. 3" PVC CULVERT INV=2976.32'
EX. LIGHT POLE
EX. 27" PLASTIC CULVERT INV=2978.96'
EX. 10" CPP CULVERT INV=2976.57'
EX. DRAINAGE DITCH
FF EL= 2986.20'
REGRADE EXISTING GRAVEL AREA FOR POSITIVE DRAINAGE
EX. BUILDING
PROPOSED FLOW LINE OF DRAINAGE SWALE MIN SLOPE: 0.50% MAX SLOPE:1.14%
EX. BUILDING
EXISTING GRAVEL AREA OUTSIDE OF PROPOSED ASPHALT TO BE RETURNED TO LANDSCAPING OR SEED & MULCHED.
WEST VIRGINIA TURNPIKE ROUTE 77
EX. CONCRETE PAD
PROPOSED COMPOST FILTER SOCK CHECK DAMS
EX. BUILDING
REPLACE WITH LIFTMASTER CSL24ULWK SLIDE GATE OPERATOR; OR APPROVED EQUAL (CARD READER TO TIE INTO EXISTING POWER & FIBER OPTICS LINES)
EX. GRAVEL LOT
EX. CATCH BASIN RIM=2980.53' INV.=NOT ACCESSIBLE
PROPOSED SILT FENCE
PROPOSED ACCESS TO WASTE SITE
EX. STREAM
EX. POND AVERAGE WATER LEVEL=2980.83'

2984.00
2983.00
2982.00
2981.00
2980.53
2985.00

MATCH LINE SHEET C4.1

50 0 50 100

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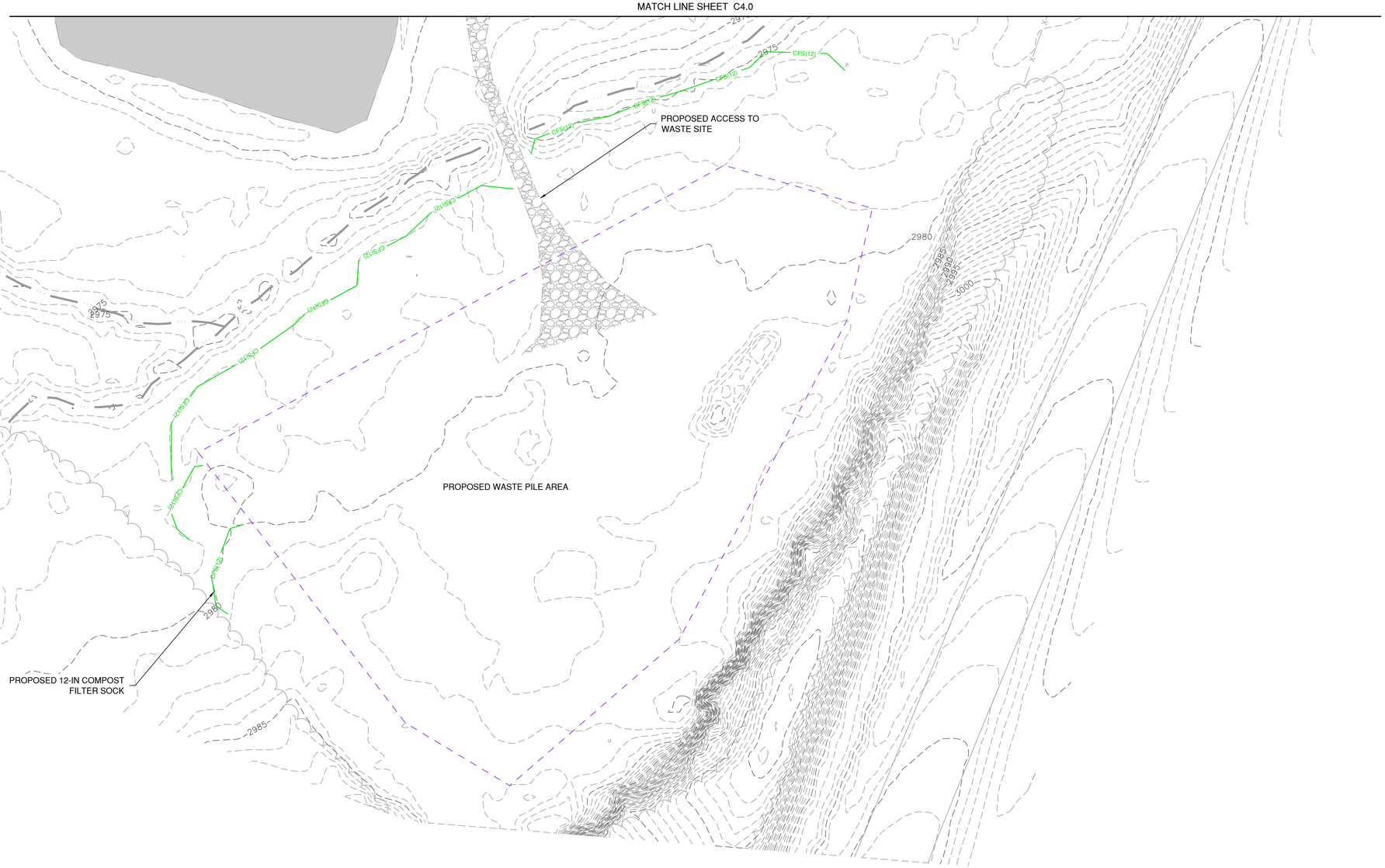
LEGEND

- EXISTING STREAM
- EXISTING CONTOURS
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- X X EXISTING FENCE LINE
- EXISTING EDGE OF BUILDING
- F/O EXISTING FIBER OPTIC
- SAN EXISTING SANITARY LINE
- S EXISTING CULVERT
- EXISTING POND
- PROPOSED HANDICAP PARKING
- PROPOSED EDGE OF PAVEMENT
- PROPOSED PARKING
- PROPOSED GREEN SPACE
- PROPOSED ASPHALT

NOTES:
1. ALL EXCESS CUT MATERIAL IS TO BE WASTED ON-SITE
2. ALL CIVIL ITEMS DEPICTED TO BE INCLUDED IN BASE BID #1



NOTES:

1. CONTRACTOR SHALL USE EXISTING GRAVELTO SURFACE THE WASTE AREA ACCESS ROAD. CONTRACTOR SHALL CLEAN AND RESURFACE AS NEEDED TO PREVENT TRACKING MUD ONTO EXISTING PAVEMENT.
2. CONTRACTOR SHALL REMOVE AND STOCKPILE TOPSOIL PRIOR TO PLACING ANY WASTE MATERIAL.
3. CONTRACTOR SHALL PLACE WASTE MATERIAL AS ENGINEERED FILL.
4. CONTRACTOR SHALL GRADE AND SHAPE WASTE MATERIAL AS DIRECTED BY ARCHITECT OR ENGINEER

N

30 0 30 60

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REPRODUCED FROM *FILTREXX LOW IMPACT DESIGN MANUAL* PAGE 324.

Slope Percent	Maximum Slope Length Above Sediment Control in Feet (Meters) *				
	8-IN (200-mm) Sediment Control 6.5-IN (160-mm) **	12-IN (300-mm) Sediment Control 9.5-IN (240-mm) **	18-IN (450-mm) Sediment Control 14.5-IN (360-mm) **	24-IN (600-mm) Sediment Control 19-IN (480-mm) **	32-IN (800-mm) Sediment Control 26-IN (650-mm) **
2 (or less)	600 (180)	750 (225)	1000 (300)	1300 (400)	1650 (500)
5	400 (120)	500 (150)	550 (165)	650 (200)	750 (225)
10	200 (60)	250 (75)	300 (90)	400 (120)	500 (150)
15	140 (40)	170 (50)	200 (60)	325 (100)	450 (140)
20	100 (30)	125 (38)	140 (42)	260 (80)	400 (120)
25	80 (24)	100 (30)	110 (33)	200 (60)	275 (85)
30	60 (18)	75 (23)	90 (27)	130 (40)	200 (60)
35	60 (18)	75 (23)	80 (24)	115 (35)	150 (45)
40	60 (18)	75 (23)	80 (24)	100 (30)	125 (38)
45	40 (12)	50 (15)	60 (18)	80 (24)	100 (30)
50	40 (12)	50 (15)	55 (17)	65 (20)	75 (23)

* Based on a failure point of 36-IN (0.9-m) super silt fence (wire reinforced) at 1000-FT (303-m) of slope, watershed width equivalent to receiving length of sediment control device, 1-IN/24-HR (25-mm/24-HR) rain event.

** Effective height of Sediment Control after installation and with constant head from runoff as determined by Ohio State University.

RESTRICTIONS
(1) COMPOST FILTER SOCK WILL NOT BE PLACED IN ANY AREA OF CONCENTRATED FLOWS SUCH AS SWALES, DITCHES, CHANNELS, ETC.
(2) COMPOST FILTER SOCK WILL NOT BE USED IN AREA WHERE ROCK OR ROCKY SOILS PREVENT THE FULL AND UNIFORM ANCHORING OF THE COMPOST FILTER SOCK.
(3) COMPOST FILTER SOCK WILL NOT BE PLACED ACROSS THE ENTRANCES TO PIPES OR CULVERTS AND WILL NOT BE WRAPPED AROUND THE PRINCIPAL SPILLWAY STRUCTURES OF SEDIMENT TRAPS OR BASINS.

INSTALLATION
(1) COMPOST FILTER SOCK WILL BE INSTALLED WITH LITTLE, IF ANY DISTURBANCE TO THE DOWNSLOPE SIDE OF THE COMPOST FILTER SOCK.

COMPOST SHALL MEET THE FOLLOWING STANDARDS:

ORGANIC MATTER CONTENT	80% - 100% (DRY WEIGHT BASIS)
ORGANIC PORTION	FIBROUS AND ELONGATED
pH	5.5 - 8.0
MOISTURE CONTENT	35% - 55%
PARTICLE SIZE	98% PASS THROUGH 1" SCREEN
SOLUBBLE SALT CONCENTRATION	5.0 dS MAXIMUM

COMPOST FILTER SOCK TO BE INSTALLED IN ACCORDANCE WITH FILTREXX MANUFACTURER SPECIFICATIONS, OR AN APPROVED EQUAL.

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8' UP SLOPE AT 45° TO THE MAIN SOCK ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY DIAMETER SOCK SHALL NOT EXCEED THAT SHOWN ON BELOW TABLE.

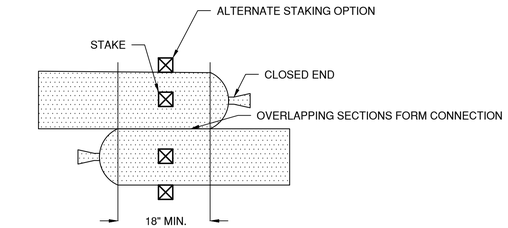
TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

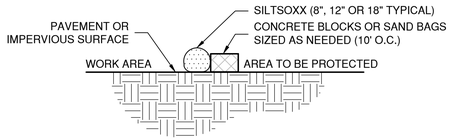
SOCKS SHALL BE INSPECTED AS DESCRIBED IN THE MAINTENANCE AND INSPECTION NOTES IN THE EROSION AND SEDIMENT CONTROL NOTES OF THESE PLANS. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

BIODEGRADABLE FILTER SOCK SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1YR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

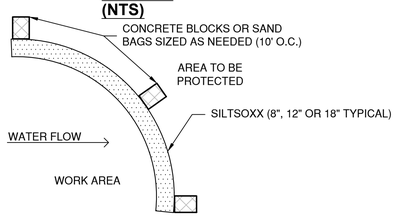
UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, ALL STAKES SHALL BE REMOVED. DEGRADABLE FILTER SOCK MAY BE LEFT IN PLACE AND VEGETATED - THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT PRIOR TO SEEDING. THE MESH FROM ALL POLYPROPYLENE FILTER SOCKS SHALL BE REMOVED - THE MULCH SHALL BE SPREAD AS A SOIL SUPPLEMENT PRIOR TO SEEDING.



FILTREXX® COMPOST SOCK CONNECTION / ATTACHMENT DETAIL
(OR EQUAL)
NOT TO SCALE



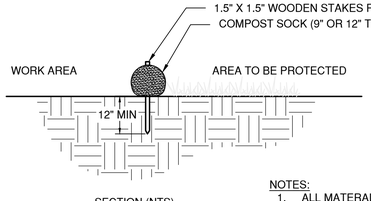
SECTION (NTS)



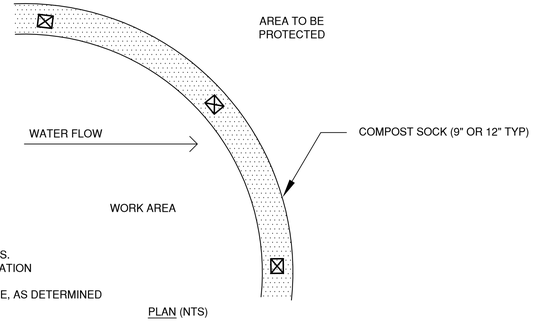
PLAN (NTS)

NOTES:
1. ALL MATERAIL TO MEET SPECIFICATIONS.
2. COMPOST SOCKS FILL TO MEET APPLICATION REQUIREMENTS.
3. FILTER MEDIA TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

FILTREXX® SEDIMENT CONTROL ON PAVEMENT
(OR EQUAL)
NOT TO SCALE



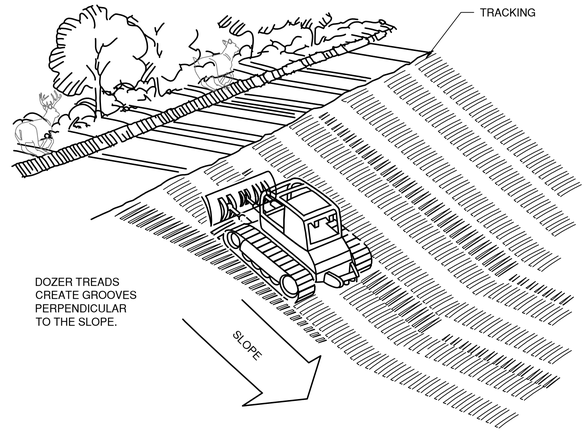
SECTION (NTS)



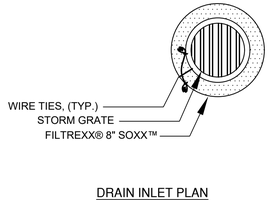
PLAN (NTS)

NOTES:
1. ALL MATERAIL TO MEET SPECIFICATIONS.
2. COMPOST SOCKS FILL TO MEET APPLICATION REQUIREMENTS.
3. FILTER MEDIA TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

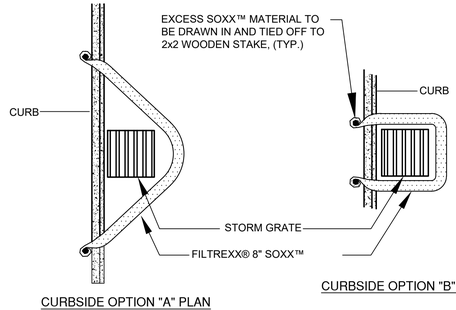
FILTREXX® COMPOST SOCKS FOR SEDIMENT CONTROL
OR EQUAL
NOT TO SCALE



CONSTRUCTED SLOPE TRACKING
NOT TO SCALE

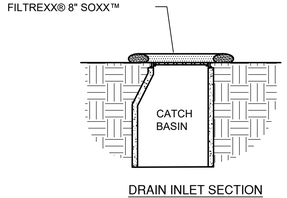


DRAIN INLET PLAN

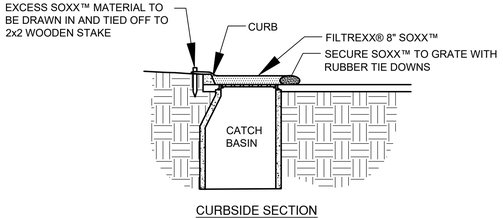


CURBSIDE OPTION "A" PLAN

CURBSIDE OPTION "B" PLAN



DRAIN INLET SECTION



CURBSIDE SECTION

NOTES:
1. ALL MATERIAL TO MEET FILTREXX® SPECIFICATIONS.
2. FILTER MEDIA™ FILL TO MEET APPLICATION REQUIREMENTS.
3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

FILTREXX® INLET PROTECTION
(OR EQUAL)
NOT TO SCALE

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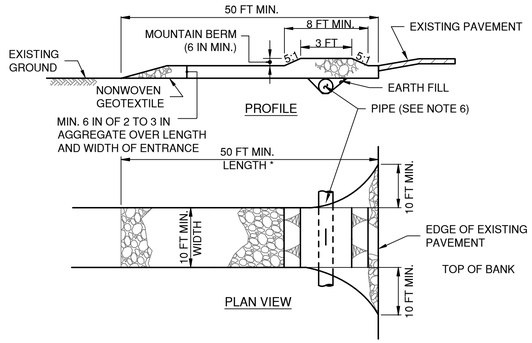
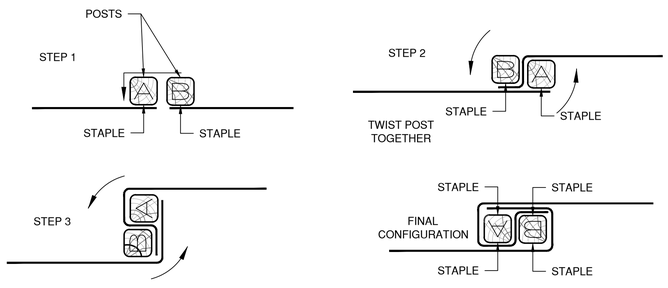


NOTES:

1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENTH OF 50 FEET (*30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE, PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY. A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.
3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUICALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, ANDOR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED CONTROL PRACTICE.

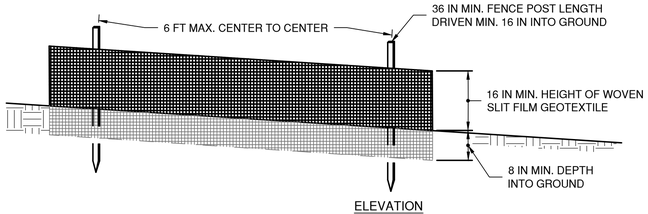
STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



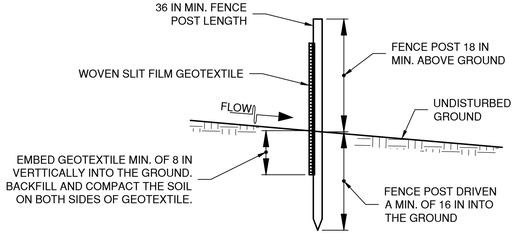
JOINING TWO ADJACENT SILT
FENCE SECTIONS (TOP VIEW)

NOTES:

1. USE WOOD POST $1\frac{3}{4}$ X $1\frac{3}{4} \pm \frac{1}{16}$ INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FEET.
2. USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
3. USE WOVEN SUT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION.
4. PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
5. EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND, BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
6. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.
7. EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.
8. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT, REPLACE GEOTEXTILE IF TORN, IF UNDERMINING OCCURS, REINSTALL FENCE.



ELEVATION



CROSS SECTION

SILT FENCE DETAIL
NOT TO SCALE

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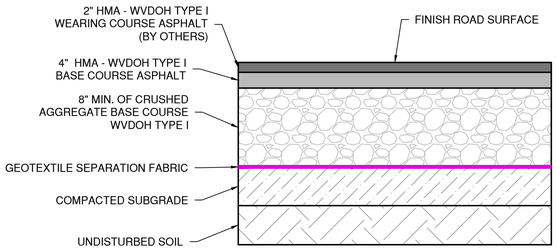
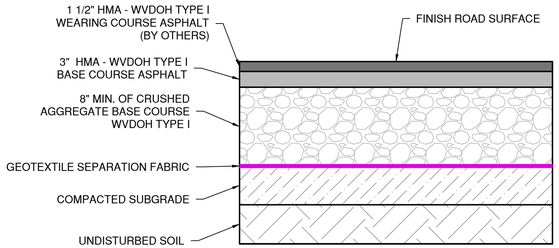


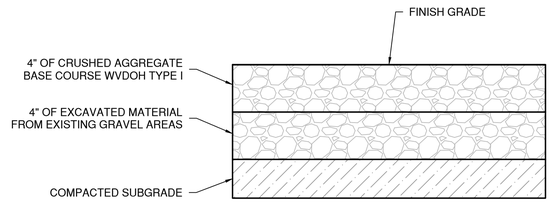
* FINISHED GRADE CONTOURS IN THESE PLANS REPRESENT THE ELEVATIONS AFTER THE FINAL COURSE OF ASPHALT HAS BEEN PLACED.

TYPICAL HEAVY DUTY
ASPHALT PAVEMENT SECTION
NOT TO SCALE



* FINISHED GRADE CONTOURS IN THESE PLANS REPRESENT THE ELEVATIONS AFTER THE FINAL COURSE OF ASPHALT HAS BEEN PLACED.

TYPICAL ASPHALT
PAVEMENT SECTION
NOT TO SCALE

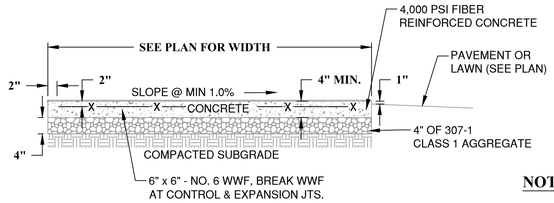


NOTES:

1. EXISTING GRAVEL AREAS TO BE EXCAVATED 8" AND PLACED BACK AS REFERENCED IN CROSS SECTION

* FINISHED GRADE CONTOURS IN THESE PLANS REPRESENT THE ELEVATIONS AFTER THE FINAL COURSE OF AGGREGATE HAS BEEN PLACED.

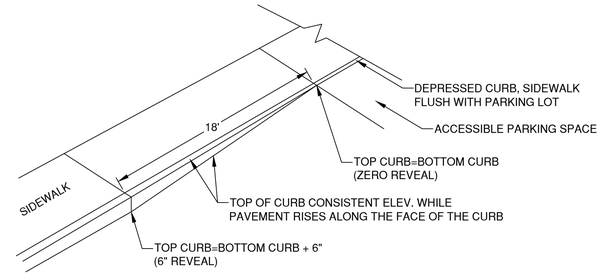
TYPICAL GRAVEL
SECTION
NOT TO SCALE



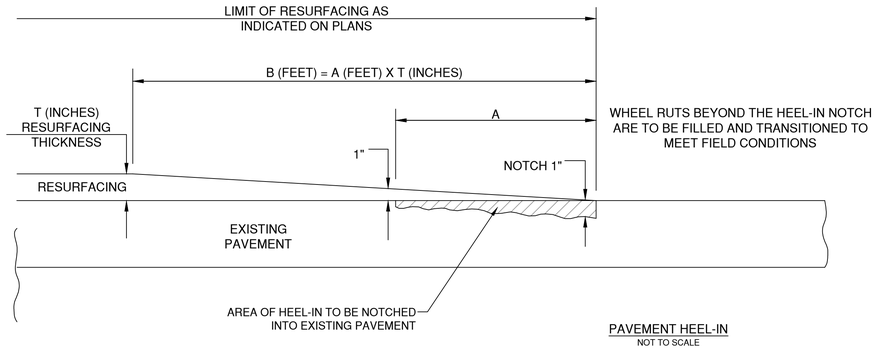
NOTES:

1. **PLACE EXPANSION JOINT WHERE DIFFERENT SIDEWALKS ABUT, AND AGAINST ANY STRUCTURE.**
2. **PLACE EXPANSION JOINTS 20' O.C.**
3. **PLACE CONTRACTION JOINS 5' O.C.**

TYPICAL SIDEWALK SECTION
NOT TO SCALE



DEPRESSED CONCRETE CURB TRANSITION
NOT TO SCALE



PAVEMENT HEEL-IN
NOT TO SCALE

POSTED SPEED LIMIT	A
25	2'
30 TO 35	4'
40 TO 45	6'
50 TO 55	8'

NOTES:

1. THIS DETAIL IS TO BE USED AT TERMINI OF RESURFACING PROJECTS AND AT ALL TERMINI FOR SKIP RESURFACING PROJECTS.
2. THIS DETAIL TO BE USED AT LOCATIONS FOR HEEL-IN INTERSECTIONS OF THIS PROJECT.

MICHAEL R. NESTOR
REGISTERED
18467
STATE OF
WEST VIRGINIA
PROFESSIONAL ENGINEER
3/9/26

BID DOCUMENTS
03.09.2026

ASCENT
Consulting & Engineering

ATC RENOVATION

NEW RIVER COMMUNITY & TECHNICAL COLLEGE
527 Odd Rd.
Ghent, WV 25843

DETAILS

OMNI
ARCHITECTS

C-5.2

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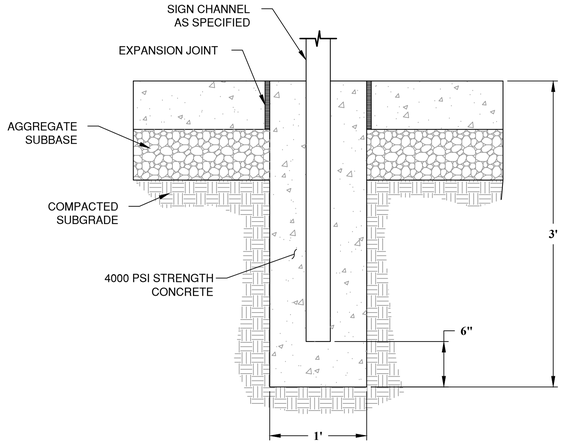
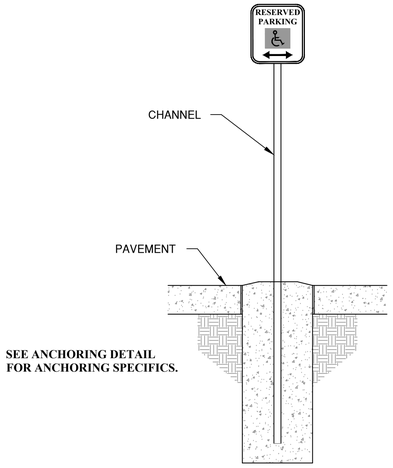
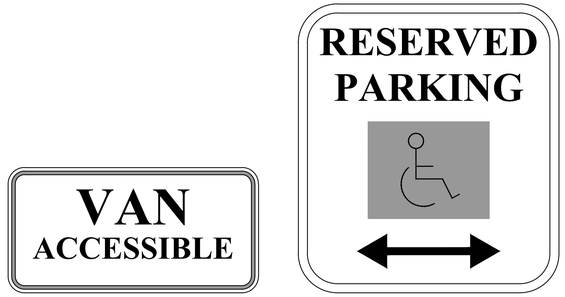
Project No: 2024008.001 **Drawn by:** DTM



SIGN ANCHORING
NOT TO SCALE



ACCESSIBLE PARKING SIGN
NOT TO SCALE



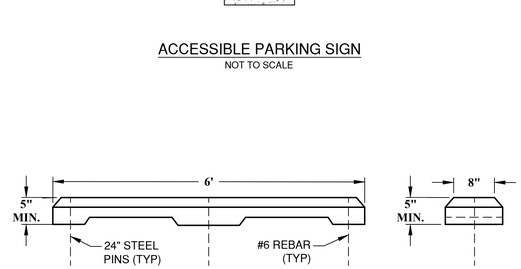
M.U.T.C.D. R7-8P

M.U.T.C.D. R7-8

NOTES:

1. **PLACE BOTTOM OF SIGN 5' ABOVE GRADE.**
2. **MOUNT ON STANDARD "T"RAIL WITH BASE POST HAVING A MINIMUM WEIGHT OF 6.5 LBS.**
3. **12" x 18" x ⅛" ALUMINUM HANDICAPPED PARKING SIGN TO READ "RESERVED PARKING" WITH IDENTIFICATION SYMBOL, BOLT TO CHANNEL WITH ⅜" CADIUM PLATED BOLTS, NUTS, AND WASHERS.**
4. **6" x 12" x ⅛" ALUMINUM SIGN TO READ "VAN ACCESSIBLE" TO BE MOUNTED BELOW RESERVED PARKING SIGN ON HANDICAP VAN DEDICATED SPACES.**

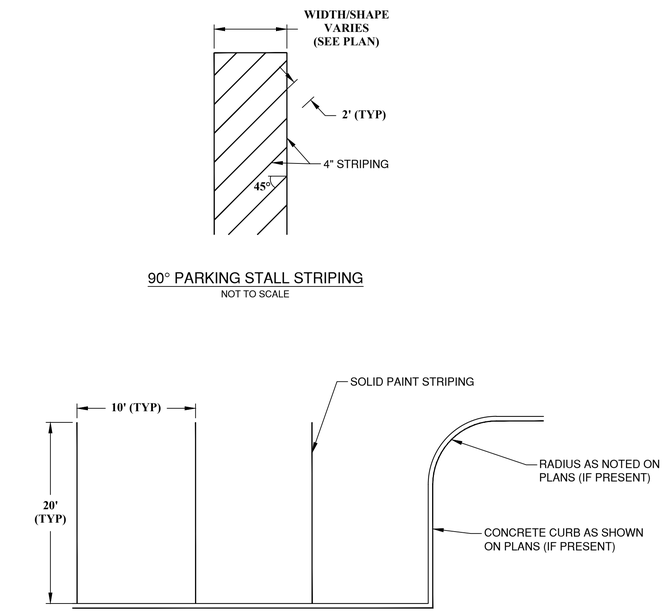
HANDICAPPED SIGNAGE
NOT TO SCALE



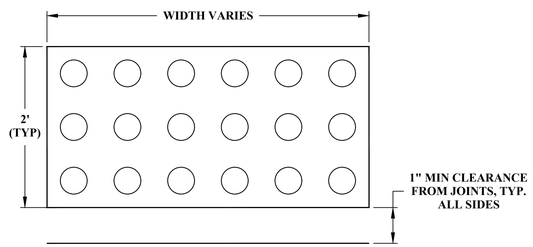
NOTE:
1. PRECAST WITH 4000 PSI CONCRETE.
2. PROVIDE PRECAST WEEP CHANNELS.
3. COMPOSITE WHEEL STOPS SHALL BE COMPARABLE IN SIZE.

WHEEL STOP DETAIL
NOT TO SCALE

INTERNATIONAL HANDICAP SYMBOL
NOT TO SCALE



90° PARKING STALL STRIPING
NOT TO SCALE

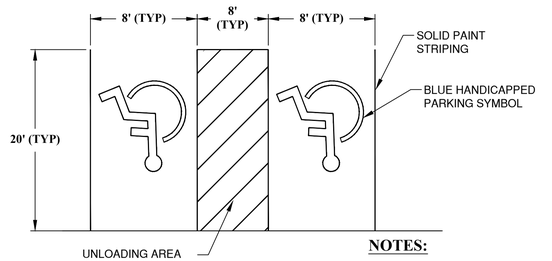


NOTES:

1. **DOMES IN DETECTABLE WARNING SURFACE SHALL HAVE A MINIMUM BASE DIAMETER OF 0.9 INCHES TO A MAXIMUM OF 1.4 INCHES**
2. **DOMES MUST HAVE A TOP DIAMETER THAT IS 50-65% OF THE BASE DIAMETER**
3. **DOMES MUST BE 0.2 INCHES IN HEIGHT**
4. **THE DOMES WITHIN THE SURFACE SHALL BE SPACED A MINIMUM OF 1.6 INCHES AND A MAXIMUM OF 2.4 INCHES FROM CENTER TO CENTER.**

TRUNCATED DOME
NOT TO SCALE

90° PARKING STALL STRIPING
NOT TO SCALE



NOTES:

1. **SEE PLANS FOR CONFIGURATION OF AREA SHOWN.**
2. **PAVEMENT SLOPE SHALL NOT EXCEED 2% IN ANY DIRECTION WITHIN ACCESSIBLE PARKING SPACES AND AISLES.**

HANDICAPPED PARKING
NOT TO SCALE

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Project No: 2024008.001 **Drawn by:** DTM

GENERAL STRUCTURAL NOTES:

1. Design Code: IBC 2018, Risk Category II

2. No provisions have been made for future horizontal or vertical expansion.

3. Wind Design Data:

- Ultimate 3-Second Gust Design Wind Speed: 110 mph
- Wind exposure classification: C

A. Internal Pressure Coefficient: +/- 0.18
Components and Cladding
B. Design wind pressure for exterior components: 25 psf

4. Earthquake Design Data:

- Seismic Importance Factor, I_E = 1.00
- Mapped spectral response acceleration parameters:
  S_S =0.227, S_1 = 0.071
- Design spectral response acceleration parameters:
  S_{DS} =0.242, S_{D1} = 0.113
- Seismic Site Class: D
- Seismic Design Category: B
- Basic Seismic Force Resisting System:
  Ordinary Steel Moment Frames

5. Live Load data:

Uniform Floor Live Loads:

Location	Load
• Corridors	100 psf

Concentrated Floor Live Loads
(distributed over an area 2-1/2 sq. ft., unless noted otherwise):

- Office Buildings: 2000 lbs

Handrail:

- Top Rail: 200 lb. or 50 lb/ft applied non-concurrently in any direction.

6. Snow load data:

- Ground Snow Load, P_g = 30 psf
- Flat Roof Snow Load, P_f = 25 psf (min)
- Snow Exposure Factor, C_e = 1.0
- Thermal Factor, C_t = 1.0
- Snow Load Importance Factor, I_s = 1.0

7. General Contractor shall verify all dimensions and conditions related to existing construction, existing services, and the site.

8. Construction loads shall not exceed design live loads. Shoring and re-shoring is the responsibility of the General Contractor.

SHOP DRAWINGS:

1. See Project Manual - Administrative Requirements for submittal procedures.

2. The General Contractor shall review, check, and stamp "Approved" all shop drawings prior to submitting them to the Architect. Shop drawings which have not been stamped "Approved" by the General Contractor do not conform to the requirements of the Contract Documents and will be rejected.

3. The General Contractor shall provide a shop drawing submittal schedule to the Architect at least two weeks prior to submittal of the first set of shop drawings.

4. Shop drawing submittals and review must precede the start of fabrication. General Contractor proceeds at their own risk without reviewed as noted shop drawings from the Architect. The maximum turn-around time for shop drawings will be two weeks (ten working days) from the date of receipt in the Architect's office to the date of return delivery. General Contractor and Architect shall increase coordination efforts when large numbers of shop drawings are invited.

5. Refer to the Project Manual (if available) for specific submittal procedures.

6. Shop drawings shall not simply be a copy of the engineer's design drawings with the contractor's title block. Electronic files from the E.O.R. can be provided to the G.C. at a negotiated fee. Fee will be based on amount of subcontractor's contract and benefit to subcontractor.

7. Shop drawings shall be completely prepared by the submitting entity.

CAST-IN-PLACE CONCRETE:

1. Cast-in-place concrete work shall conform to the American Concrete Institute codes and standards listed in the Project Manual except as modified therein or on the drawings. Maintain copy of each on job site during construction.
2. The minimum ultimate compressive strength of concrete at 28 days shall be:

a. 3000 psi - Stair pan infill
b. 4000 psi - All other unless noted otherwise on drawings.

3. Air Content: All concrete exposed to freezing and thawing and/or required to be watertight shall have an air content of 4.5% to 7.5%. All other concrete shall have an air content of 3% to 4%.

4. Water Cement Ratio: All concrete subjected to exposed to freezing and thawing in moist condition and/or required to be watertight shall have a maximum water-cement ratio of 0.45. All reinforced concrete exposed to deicing salts, brackish water seawater or spray from these sources, shall have a maximum water-cement ratio of 0.40.

5. Maximum aggregate size shall be 1 1/2 ", well graded, well-shaped (not elongated, flat, or slippery), and free of clay, dirt, and excess fines, U.N.O.

6. Aggregate composition shall consist of quartz, limestone, dolomite, granite, or feldspar.

7. Cement shall be Type 1, U.N.O.

8. Maximum concrete slump 3", U.N.O.

9. Reinforcing bars: ASTM A615, Grade 60.

10. Welded wire fabric: ASTM A185.

11. Provide 6x6-w2.9xw2.9 welded wire fabric in all non-structural slabs on grade, unless otherwise noted.

12. Place reinforcement in slabs, 1-1/2" down from top of slab, unless otherwise noted.

13. Provide control joints in all non-structural slabs on grade. The maximum spacing of control joints shall be 20'-0" O.C. unless otherwise noted. Control joint depth equal to 1/5 slab thickness not less than 1 inch.

14. Reinforcing bar lap splices and anchorage lengths shall conform with ACI 318-11 "Development and Splices of Reinforcement." All splices shall be Type B.

15. Top layer of reinforcing steel in slabs and footings shall be considered top bars regardless of thickness of concrete below the bars.

16. All horizontal wall bars shall be bent lapped around all corners, unless otherwise noted.

17. Provide vertical and horizontal reinforcing bars in concrete walls to conform to the minimum provisions of ACI 318, Section 14.3 unless otherwise noted.

18. Chamfer exposed edges of concrete 1/2" unless otherwise noted.

19. Refer to architectural drawings for location and extent of finishes or other treatments to exposed concrete.

20. Determine size, location and weight of mechanical equipment and make provisions for bolts, sleeves, pads, etc. from manufacturer's certified drawings. This work shall be coordinated with the trades involved.

21. All new concrete shall be bonded to previously placed concrete per specification requirements, U.N.O.

22. The Contractor shall prepare shop drawings showing detail layouts of reinforcing, including dimensions, openings, and spacing, bending details, bar schedules, and similar items required for the proper construction of the work.Provisions for the connection of work by other trades shall be indicated on the shop drawings. The location of all embedded items shall be indicated by the contractor on the shop drawings. All shop drawings shall be submitted for approval in accordance with the requirements of the Contract Documents.

23. Preparing, curing, transporting, and testing concrete cylinders. For each class of concrete placed, at least four cylinders shall be taken for each 50 cubic yards, or fraction thereof, of each class of concrete placed each day. Cylinders are to be taken in accordance with ASTM C31 and results shall be submitted to the Architect/Engineer, Construction Manager and owner. Two cylinders will be tested at 7 days and two at 28 days.

FOUNDATIONS:

1. Foundation design is based on an assumed allowable soil bearing pressure of 1,500 psf. A professional geotechnical engineer licnesed in the state of West Virginia shall verify this assumption before construction. Structural engineer is not responsible for subsurface conditions encountered in the field different from those assumed for design.

2. Foundations are indicated on the drawings as either drilled piers or spread footings, based on an interpretation of information provided in the geotechnical report. After excavation to the bearing elevation and after evaluation of the bearing medium, it may be necessary to revise the foundation design from a drilled pier to a spread footing or from a spread footing to a drilled pier.
The minimum length of drilled piers shall be 2.0 times the diameter of the drilled pier. If auger refusal is reached at an elevation where the length of a drilled pier would be less than 2.0 times the diameter of the drilled pier, then a rock socket shall be provided. The total length of the drilled pier, including the portion of the drilled pier socketed into rock, shall be a minimum of 2.0 times the diameter of the drilled pier.

3. For spread footings where the soil or rock capable of supporting the minimum specified geotech report bearing capacity is below the bottom of the footing elevation, based on the top of footing elevation shown on the drawings, the top of the footing elevation shall be maintained, and a plain concrete pad, consisting of concrete with a 28-day compressive strength of 3000 PSI and utilizing type I cement, shall be placed under the footing. The plansize of the plain concrete pad shall be at least as large as the spread footing. Foundations for miscellaneous foundation walls, cantilevered retaining walls, and miscellaneous structures shall consist of individual and continuous spread footings and shall bear on soil capable of supporting 1,500 psf.

4. Notify the Architect of any unusual soil conditions that are in variance with the test borings, such as ground water, substandard bearing material, or obstructions.

5. Refer to Foundation Plan for footing elevations. Elevations shown are "top of concrete".

6. Backfilling against foundation or pit walls will not be permitted until supporting floors at the top of these walls are in place and able to provide full support to the imposed loads. Proper temporary bracing may be used in lieu thereof with prior approval of the Architect. The design of the temporary bracing is the responsibility of the General Contractor. G.C.'s Shoring Design Engineer shall provide a certified design for approval. Shoring forces will be provided by the E.O.R. upon request.

7. The General Contractor shall be responsible for the design, installation, and final clearance of any required shoring or bracing.

8. Remove all unsuitable fill and replace per the recommendations of the Geotechnical Engineer of record.

9. Anchor bolts shall be set in place prior to concrete placement. They shall not be forced into wet concrete.

10. Unless noted otherwise in the geotechnical report or specifications, compact all fill under slabs on ground and foundations to 98% of optimum laboratory density in accordance with ASTM D698 Standard Proctor Method. Place fill in 6" to 8" lifts and compact with vibratory tamping equipment.

11. Locate existing underground utilities in areas of construction. Contact local authorities for coordination.

12. When excavations approach the ground water level, the water level shall be continuously lowered by an acceptable dewatering system so that the water level is maintained continuously a minimum of 2'-0" below the excavation.

13. Shale containing pyrites must be protected as indicated in the Geotechnical Report.

DESIGN/CONSTRUCTION DOCUMENTS - EXISTING CONSTRUCTION:

Design and construction documents are based upon assumptions made from available original and field investigation. Information shown may not necessarily reflect actual conditions. The contractor drawings shall field verify or establish the following:

1. All dimensions and elevations.

2. Existing conditions.

3. Existing structural arrangement and sizes in work areas.

The contractor shall notify the Architect of any discrepancies between the design documents and actual conditions. All existing dimensions and conditions shall be reflected on the shop drawings prior to submission for review.

MASONRY WORK:

1. Masonry work shall conform to the references and standards listed in the Project Manual.

2. Maximum lateral deflection is to be limited to L/360.

3. Vertical control joints shall be located at a maximum 15ft. o.c.

4. Mortar shall be ASTM C270, Type S, 2500 PSI minimum.

5. Grout shall conform to ASTM C476. Use fine grout for collar joints 1" wide or less and when grouting cells of hollow masonry units with or without vertical reinforcing. Use coarse grout when grouting bond beams.

6. Wall construction under masonry bearing structural members shall be as follows, unless otherwise noted:

a. Provide solid masonry, 32" long and 16" high, centered under each wall bearing open web steel joist supporting roof loads.
b. Provide solid masonry, 32" long and full height of wall to the footing, centered under each wallbearing steel beam or cast-in-place concrete beam.

7. All masonry walls shall have galvanized horizontal reinforcing of one of the following:

a. Truss type 3/16 " side rods and #9 gage cross rods, for all non-reinforced walls, spaced 16" on-center vertically.
b. Ladder type 3/16 " side rods and #9 gage cross rods, for all vertically reinforced or grouted walls, spaced 16" on-center vertically.

8. Conventional reinforcing bars, horizontal and vertical, shall be ASTM A615, Grade 60.

9. All units shall be laid with full mortar coverage on head, bed (face shells), and webs, unless otherwise noted.

10. All new wall construction shall have a bond beam coarse set at the each floor level and at the top row with 2-#5's continuous in each level of bond beam, U.N.O. Do not exceed 12 ft. vertical wall height without a bond beam.

11. For all air spaces behind veneer below grade, fill space with min. 2500 psi grout, unless noted otherwise on Architectural drawings.

12. For all HVAC penetrations through CMU walls General Contractor shall coordinate locations with all trades. Opening locations shall be determined upon coordination with HVAC contractor. Notify Architect and Engineer of Record for review of determination of lintel requirements. All openings greater than 24" shall have a lintel above the wall opening. In bearing walls duct openings shall not be closer than 8" to the floor above.

13. Minimum quality assurance requirements shall be per Table1.15.2, ACI 530/ASCE5/TMS402. Contractor shall submit a written Quality Assurance Program in accordance with Table 1.15.2. Inspection results shall be provided to Architect no less than monthly over the course of the masonry installation.

14. Lap splices in masonry shall conform to TMS 402/ACI 530/ASCE 5 Section 2.1.9.7.1.1.The minmum length of lap splices for reinforcing bars in tension or compression, *ld*, shall be:
db - ld (inches)
- #3 - 11"
- #4 - 18"
- #5 - 29"
- #6 - 41"
- #7 - 53"
- #8 - 72"
- #9 - 92"

15. All reinforcement welding shall conform to AWS D1.4. Welded splices shall be of ASTM A706 steel reinforcement. Reforcement larger than No. 9 (M #29) shall be spliced using mechanical connections in accordance with section 2.1.9.7.3.

STRUCTURAL STEEL:

1. All structural steel work shall be in accordance with the "Specifications for the Design, Fabrication, and Erection of Structural Steel Buildings" (14th Edition) of the AISC. Maintain copy of each on job site during construction.

2. Structural steel shall conform to the following:

a. Wide flange shapes and WT's - ASTM A992 with a minimum yield strength of 50,000 PSI.

b. Channels, angles, plates, and miscellaneous connection material - ASTM A36 with a minimum yield strength of 36,000 PSI unless noted otherwise.

c. Pipes - ASTM A501 with a minimum yield strength of 36,000 PSI or ASTM A53 Type E or S with a minimum yield strength of 35,000 PSI.

d. Tubes - ASTM A500, Grade B with a minimum yield strength of 46,000 PSI.

3. All bolts shall be 3/4" dia. unless noted otherwise ASTM A325 H.S. bolt of either friction or bearing type. Use slip critical connections for all wind bracing connections. Threads shall be included in the shear plane.

4. All bolted connections shall be made according to AISC Table II or III framed beam connections. The minimum depth of connection must be more than one half the depth of the beam except that beams framing to columns shall have full depth connections using 3/8" connection angles or plates. Contractor shall provide certified design for all shear connections by a Professional Engineer in the state in which the project is located. Submit calculations for moment connections using braced member capacity U.N.O. on plans. Minimum end reaction of beams:

- W8's = 10 kips
- W10's= 12 kips
- W12's= 16 kips
- W14's= 18 kips
- W16's= 20 kips
- W18's= 22 kips
- W21's= 24 kips
- W24's= 26 kips

5. When using AISC Tables all composite beam connections shall be designed, u.n.o., for an end reaction "R" equal to not less than the following:

a. For beam depths greater than 21"----------Rc=1.5xR
b. For beam depths greater than or equal to 14" but less than 21"--------Rc=2.0xR
c. For beam depths greater than or equal to 8", but less than 14"---------Rc=2.25xR

If reactions are shown on plans, use the plan reactions regardless.

6. All welding shall be in strict accordance with the standards of the AWS and the AISC. Use E70XX electrodes.

7. Contractor shall submit Welders' certificates in accordance with AWS B2.1/B2.1M. It shall be dated no more than 12 months before start of scheduled welding work.

8. Do not paint steel where encased in concrete or at field weld areas.

9. No shop or field holes or cuts are to be placed in structural members unless indicated on the contract or shop drawings.

10. The Structural Steel Fabricator shall field verify all dimensions prior to fabrication. Particularly for stairs, handrail systems, etc.

11. The Structural Steel Fabricator shall provide for vertical and horizontal adjustment of all support assemblies.

12. The Structural Steel Fabricator and/or the General Contractor shall verify all existing dimensions and conditions at the site. All discrepancies found shall be reported to the Architect prior to preparation of shop drawings. Shop drawings shall include all field measurements and conditions.

13. Expansion bolts:Use expansive anchors of the diameter indicated on the drawings as manufactured by HILTI Fastening Systems or approved equal.

a. In concrete, use HSL Heavy Duty Anchors.

b. In brick and CMU, use sleeve and fill CMU cells at all bolt locations.

14. Anchor bolts must meet ASTM A1554 gr. 36 specifications and be 3/4" diameter (unless otherwise indicated) .

15. The Structural Steel Fabricator shall provide all supports for any precast concrete panels as indicated on the drawings and as required by the manufacturer. Location of such supports shall be coordinated with the manufacturer.

16. The Structural Steel Fabricator, Precast Concrete Supplier, and the General Contractor shall coordinate all support and tie-back locations and connections, if applicable.

17. All galvanizing shall be per ASTM A123 and A780. All steel exposed to the elements and masonry support members shall be galvanized. Backup steel supporting masonry veneer and precast support angles shall be zinc primed and painted.

18. Refer to architectural and mechanical drawings for possible miscellaneous steel. This steel shall also conform to the requirements in these General Notes and the Structural Steel specifications.

19. Steel fabricator shall be certified under the AISC quality Certification Program.

20. 75% of field welds shall be visually inspected and tested using one of the following:
A. Radiographic testing performed in accordance with ASTM E94/E94M
B. Ultrasonic testing performed in accordance with ASTM E164
C. Liquid penetrant inspection performed in accordance with ASTM E165/165M
D. Magnetic particle inspection performed in accordance with ASTM E709

21. All shear studs shall be 3/4" diameter x 1 1/2" taller than the metal deck height. (1 1/2" deck + 1 1/2" = 3")

22. Steel fabricator shall review Architectural drawings and include all miscellaneous steel in their bid. If notes on architectural drawings refer to "see structural" and the structural drawings do not address this item notify the E.O.R. at least two weeks prior to bid opening to allow time for issue of addendum.

23. Column Schedule may not include all columns on the project. Review all drawings to insure all columns are included in bid.

24. Steel lintels can be replaced with engineered reinforced precast lintels. Mfgr shall submit certified Engineer design with lintel submittal.

25. Support for RTU's shall be limited to framed opening steel around roof openings. Additional steel required for RTU support shall be designed and provided by the General Contractor with coordination with the RTU manufacturer.

PERFORMANCE REQUIREMENTS:

1. No provision of any referenced standard specification, manual or code (whether or not specifically incorporated by reference in the contract documents) shall be effective to change the duties and responsibilities of owner, contractor, engineer, supplier, or any of their consultants, agents, or employees from those set forth in the contract documents. Nor shall it be effective to assign to the structural engineer of record or any of the structural engineer of record's consultants, agents, or employees ant duty or authority to supervise or direct the furnishing or performance of the work or any duty or authority to undertake responsibilities contrary to the provisions or the contract documents.

2. Contract documents include, but are not limited to, the structural documents (drawings and specifications), but do not include shop drawing, vendor drawings, or materials prepared and submitted by the contractor.

3. Reference to standard specifications or any technical society, organization, or association or to codes of local or state authorities, shall mean the latest standard, code, specification or tentative specification adopted at the date of taking bids, unless specifically stated otherwise.

4. Contract documents shall govern in the event of a conflict with the code of practice or specifications of ACI, PCI, AISC, SJI, or other standards. Where a conflict occurs within the contract documents, the strictest requirement shall govern.

5. Contractor shall obtain and coordinate edge of slab and roof deck edge dimensions, opening locations and dimensions, depressed slab locations and extents, slab slopes, curb locations, and CMU wall location. Architect/Structural engineer shall be notified of any discrepancy or omission. In the event of discrepancies, the non-structural architectural details shall govern.

6. Contractor shall verify existing dimensions, elevations, and site conditions before starting work. Architect/Structural engineer shall be notified of any discrepancy.

7. Contractor shall verify the structurally supported mechanical equipment weights, opening sizes, and locations identified on the structural drawing with architectural and mechanical drawings.

8. Contractor shall verify that miscellaneous framing shown on the structural drawings for mechanical equipment, owner-furnished items, partitions, etc. is consistent with the requirements of such items.

9. Contractor has responsibility for means, methods, safety, techniques, sequences, and procedures of construction.

10. The structure is stable only in its completed form. Temporary supports required for stability during all intermediate stages of construction shall be designed, furnished, and installed by the contractor. Contractor is responsible for constructability analysis, and erection procedures, including design and erection of framework, temporary bracing, etc.

11. Contractor has sole responsibility to comply with all OSHA regulations.

12. Reproduction of structural drawings for shop drawings is not permitted.

13. Electronic drawing files will not be provided to the contractor.

14. Structural engineer of record is not responsible for the design of steel stairs, handrails, curtain wall/window systems, cold-formed metal framing, toilet partition supports, shelf systems, or other systems not shown in the structural documents, such systems shall be designed, furnished, and installed by others as required by other portions of the contract documents.

15. Structural Engineer shall not be responsible for specifying all waterproofing details and elements on the superstructure and below grade structures.

16. General Contractor shall review and coordinate elevator rail and hoist requirements with structural drawings. Notify structural engineer immediately if changes are required.

CONSTRUCTION MEANS AND METHODS

1. Contractor agrees that Contractor shall assume sole and complete responsibility for job site conditions during the course of the Work, including safely of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that Contractor shall defend, indemnify, and hold Owner and Structural Engineer harmless from any and all liability, real or alleged, in connection with the performance of the Work on this Project, excepting for liability arising from the sole negligence of Owner or Structural Engineer.

2. The Contract Documents represent the finished structure. They do not include the method of construction. Contractor shall provide all measures necessary to protect the structure during construction. Such measures shall include, but not be limited to: protection of subgrade from freezing conditions, bracing, shoring for loads due to construction equipment, temporary structures, and partially completed work. Observation visits to the site by Structural Engineer shall not include inspection of the above items.

3. ADS Consulting Engineers shall not have control over or charge of and shall not be responsible in any way for construction means, methods, techniques, sequences, or procedures, or safety or safety precautions and programs in connection with any construction activities, since these are solely Contractor's responsibility under the Contract.

4. ADS Consulting Engineers shall not be responsible for Contractor's schedule or failures to carry out any construction activities in accordance with the Contract Documents. ADS Consulting Engineers shall not have control over or charge of actions of Contractor, Subcontractor, or any of their Agents, or employees, or any other persons performing portions of any construction activities.

5. The structure is stable only in its completed form. Temporary supports required for stability of the structure during all intermediate stages of construction shall be designed and provided by Contractor.

JASON D. ROBINSON
REGISTERED
19755
3-9-2026
STATE OF WEST VIRGINIA
PROFESSIONAL ENGINEER

BID DOCUMENTS
03.09.2026
REVISIONS ▼

ATC RENOVATION
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Ghent, WV 25843

GENERAL NOTES

OMNI ARCHITECTS

S001

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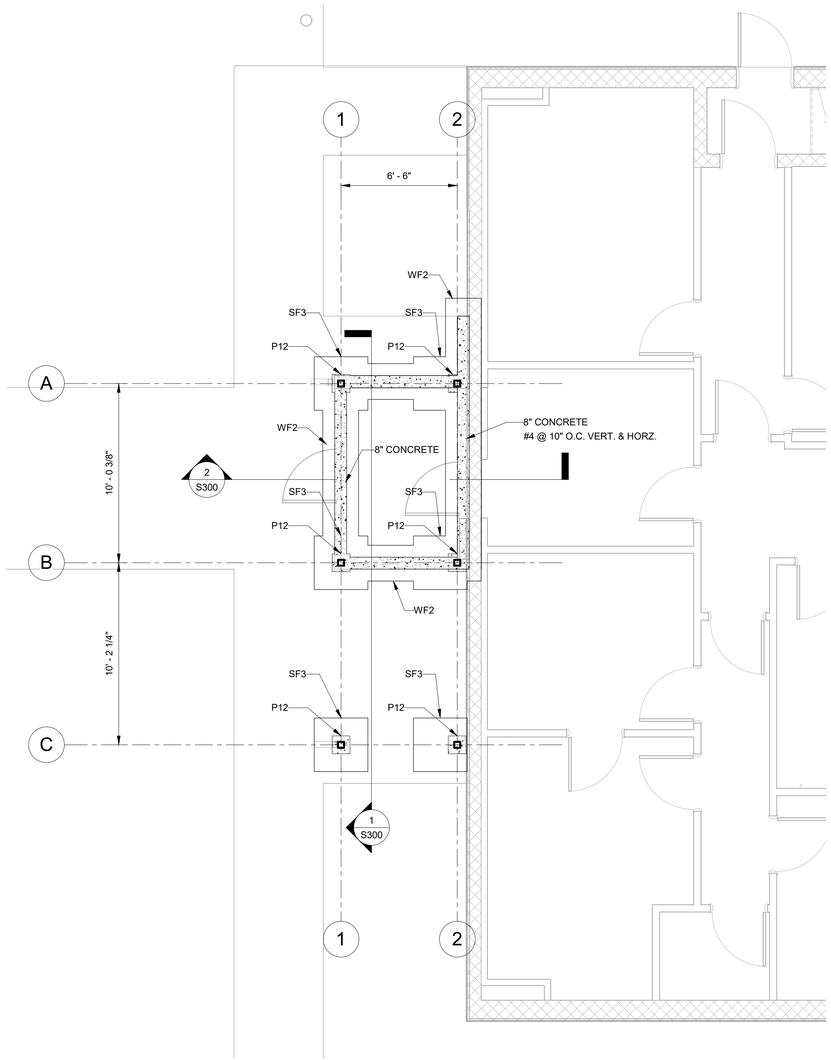
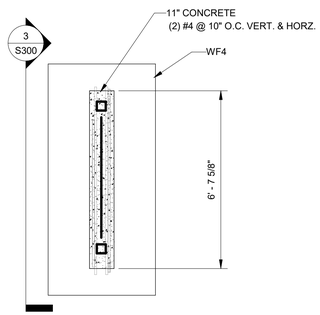
Project No: 2024008.001 Drawn by: jdr



PLAN NORTH

FOUDNATION/FIRST FLOOR PLAN

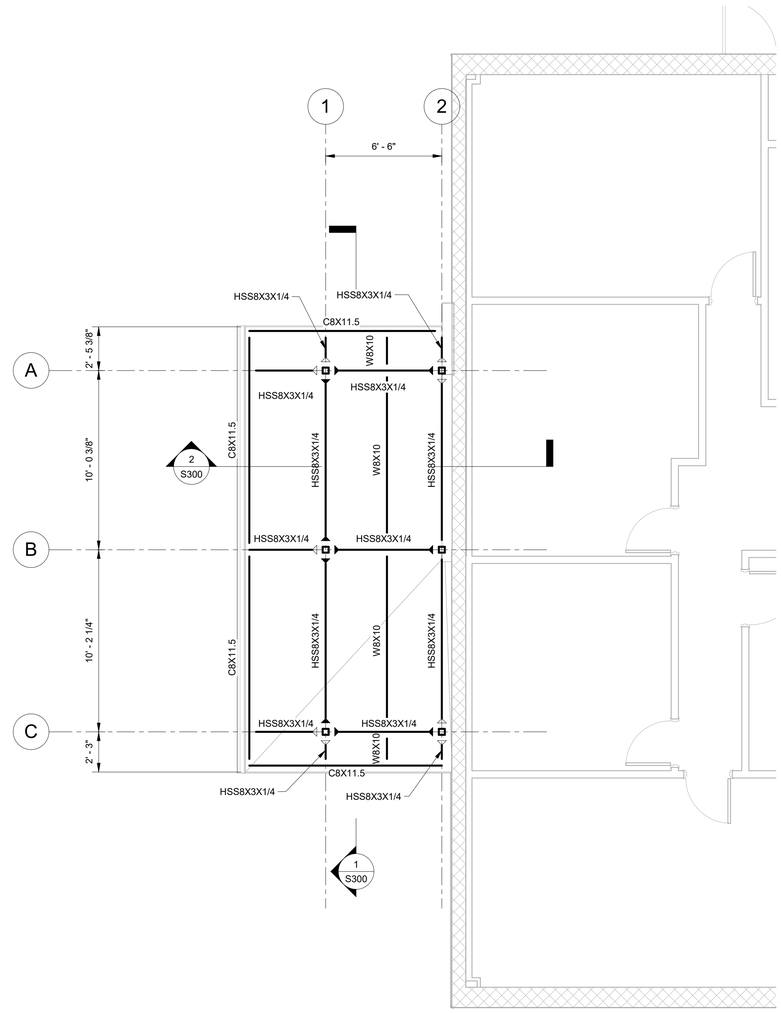
SCALE: 1/4" = 1'-0"



PLAN NORTH

SIGN FOUNDATION PLAN

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



PLAN NORTH

CANOPY/VESTIBULE ROOF LEVEL PLAN

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

NOTES:

1. ELEVATIONS REFERENCE FINISH FLOOR. REFERENCE LEVEL = 0'-0" (LEVEL 1)
2. T/FOOTING = -2'-0" TYP. U.N.O. (BOTTOM OF FOOTING SHALL BE -3'-0" MIN BELOW GRADE)
3. BP INDICATES BASE PLATE TYPE. SEE X-XXX FOR DETAILS.
4. PX INDICATES PIER TYPE. SEE X-XXX FOR DETAILS.
5. "RD1" INDIVATES 1.5" DEEP 20 GA. G90 GALV. ROOF DECK. USE 36/4 DECK ATTACHMENT W/12" O.C. PERIMETER WITH HILTI EMP-2 FASTENERS. SIDE LAPS #10TYPE 1 SCREWS 2 PER SPAN
6. FOR BEAM REACTIONS NOT SHOWN, SEE GENERAL NOTES FOR MINIMUM END REACTION.

FOUNDATION SCHEDULE						
DESIGNATION	FOOTING SIZE (HEELxTOExDEPTH) or (WxD)	LONG. BOTTOM REBAR	LONG. TOP REBAR	TRANSV. BOTTOM REBAR	TRANSV. TOP REBAR	COMMENTS
SF3	3'-0"x3'-0"x1'-0"	(4) #4	(4) #4	(4) #4	(4) #4	
WF2	2'-0"x1'-0"	(3) #5	N/A	#4 @ 12" O.C.	N/A	
WF4	4'-0"x1'-0"	(4) #5	(4) #5	#4 @ 12" O.C.	#4 @ 12" O.C.	

CONCRETE PIER SCHEDULE				
DESIGNATION	D(in.)xW(in.)	VERTICAL REBAR	REBAR TIES	COMMENTS
P12	12"x12"	(4) #6	#3 @ 10" O.C.	N/A

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REGISTERED
19755
3-9-2026
STATE OF WEST VIRGINIA
PROFESSIONAL ENGINEER

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03.09.2026
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FOUNDATION AND FRAMING PLANS

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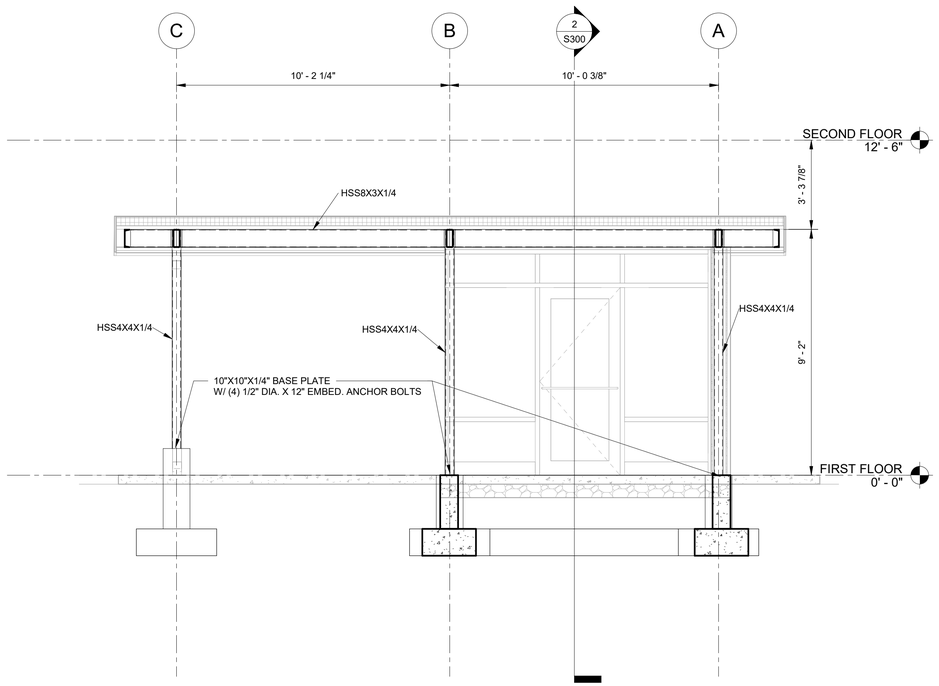
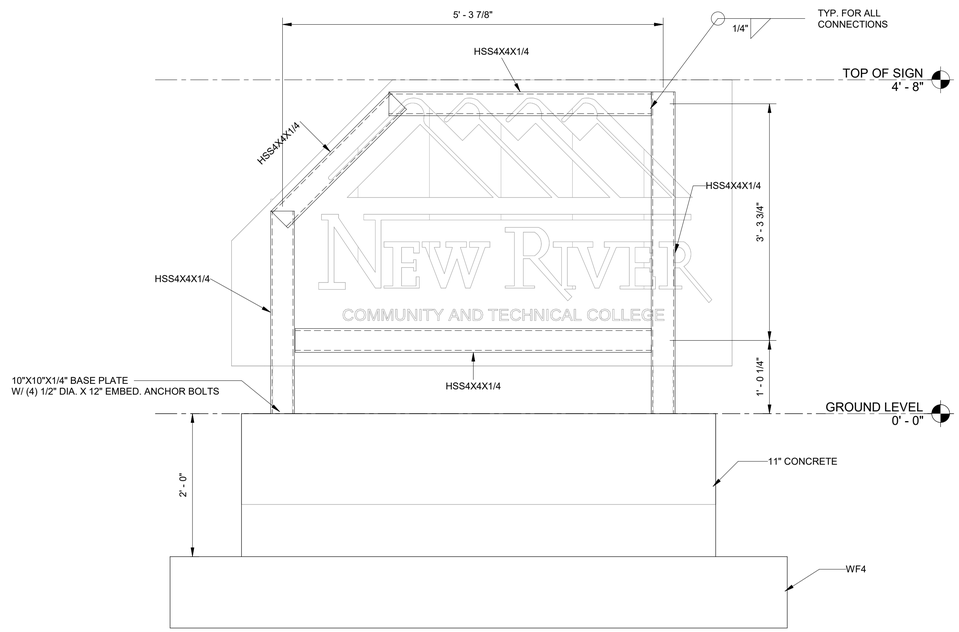
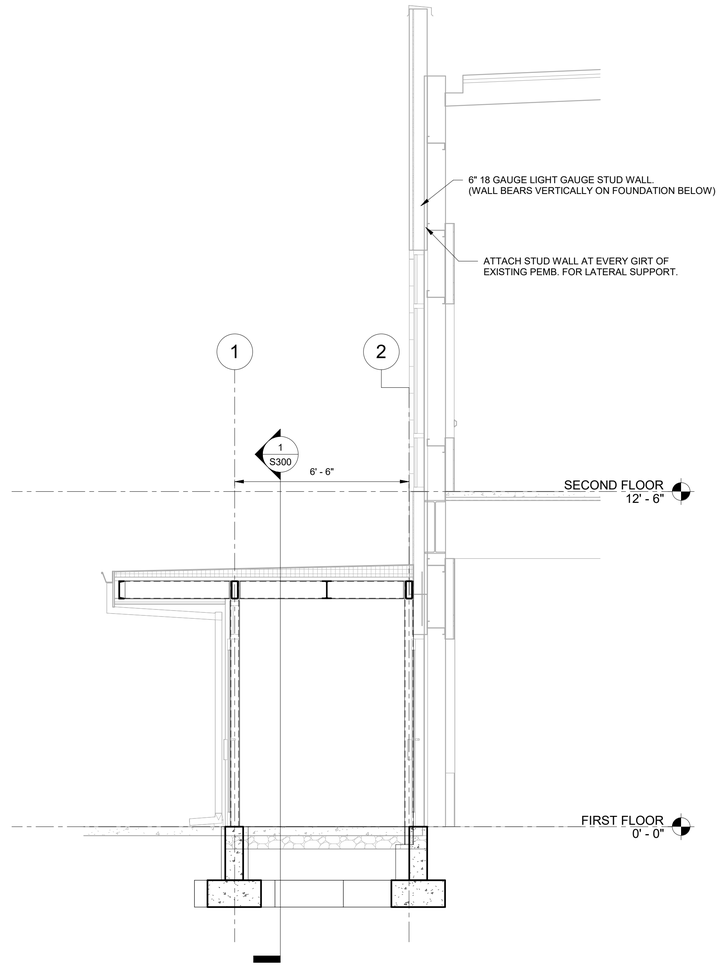


1 S300 **CANOPY/VESTIBULE SECTION**
SCALE: 3/8" = 1'-0"



3 S300 **SIGN SECTION**
SCALE: 1" = 1'-0"



2 S300 **CANOPY/VESTIBULE SECTION**
SCALE: 3/8" = 1'-0"

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CANOPY/VESTIBULE SECTIONS

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S300

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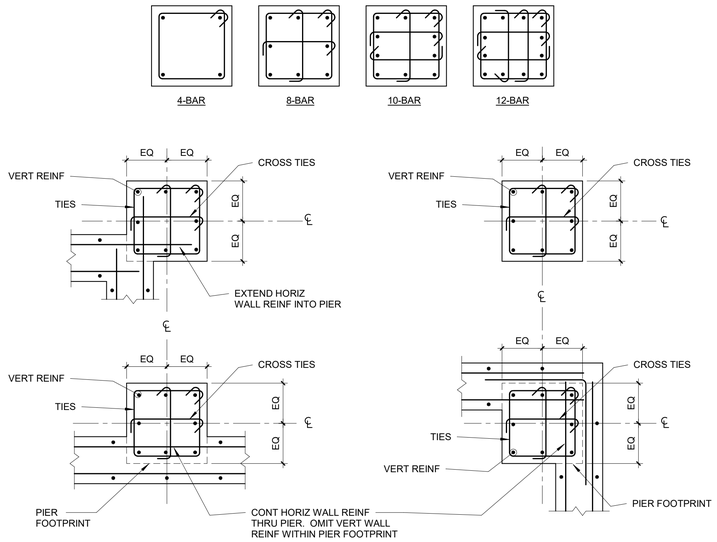
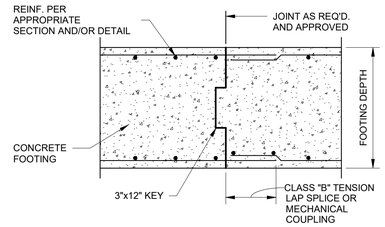
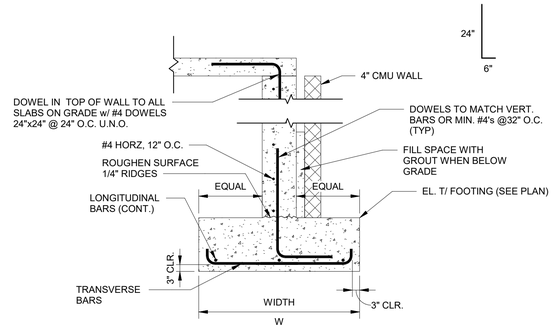


NOTES:
1. PROVIDE 135 DEGREE HOOKS AT TIES.
2. PROVIDE 135 DEGREE AND 90 DEGREE HOOKS AT CROSS TIES.
3. ALTERNATE HOOK LOCATIONS AT CONSECUTIVE TIES.

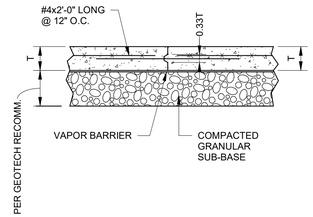
1 / S500 TYPICAL CONCRETE PIER DETAIL



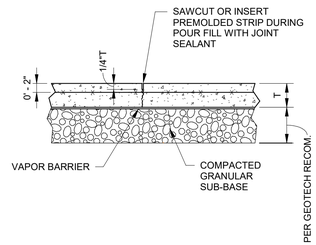
2 / S500 TYPICAL CONCRETE FOOTING CONSTRUCTION JOINT DETAIL



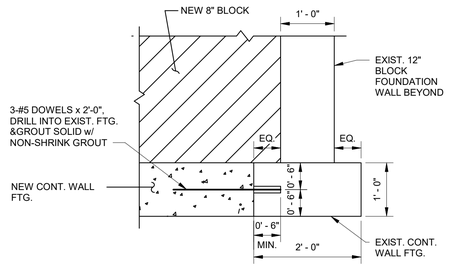
3 / S500 TYPICAL CONCRETE STEM WALL CONTINUOUS WALL FOOTING DETAIL



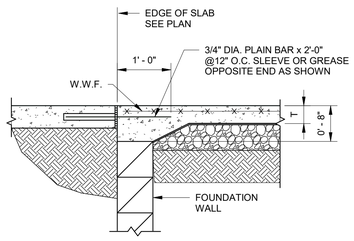
4 / S500 TYPICAL CONSTRUCTION JOINT DETAIL



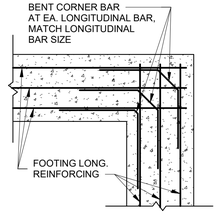
5 / S500 TYPICAL CONTROL JOINT DETAIL



6 / S500 TYPICAL NEW WALL FOOTING INTERSECTING AN EXISTING WALL FOOTING DETAIL



7 / S500 TYPICAL SLAB-ON-GRADE ENTRY DETAIL



8 / S500 TYPICAL WALL FOOTING CORNER DETAIL

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FOUNDATION DETAILS

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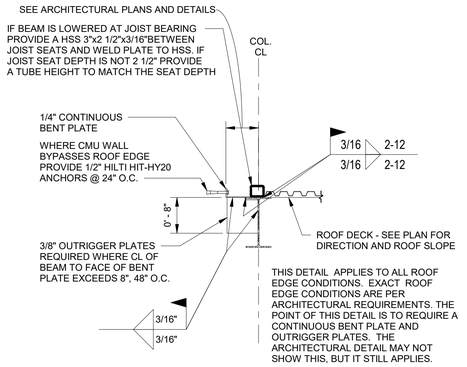
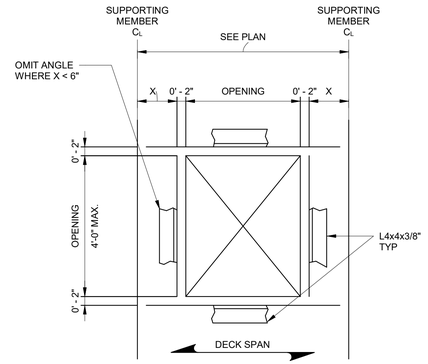
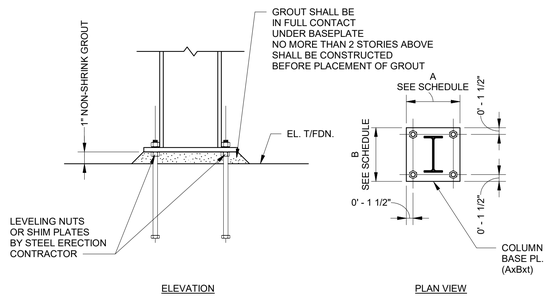


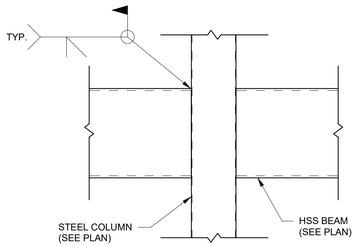
1 S501 TYPICAL SECTION AT ROOF



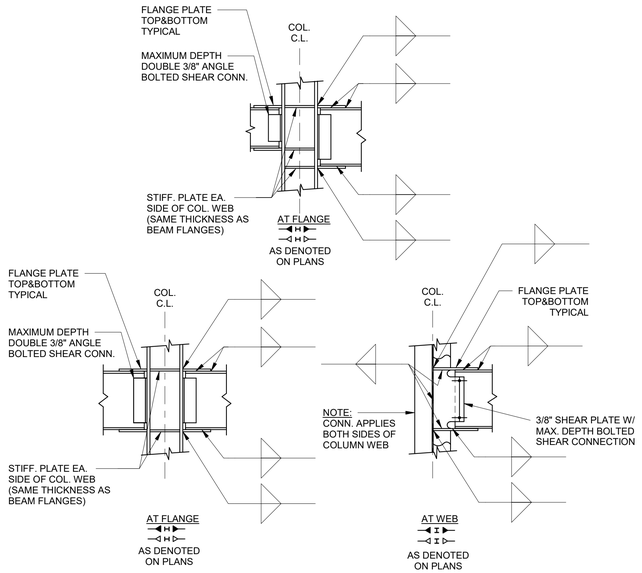
2 S501 TYPICAL ROOF OPENING DETAIL



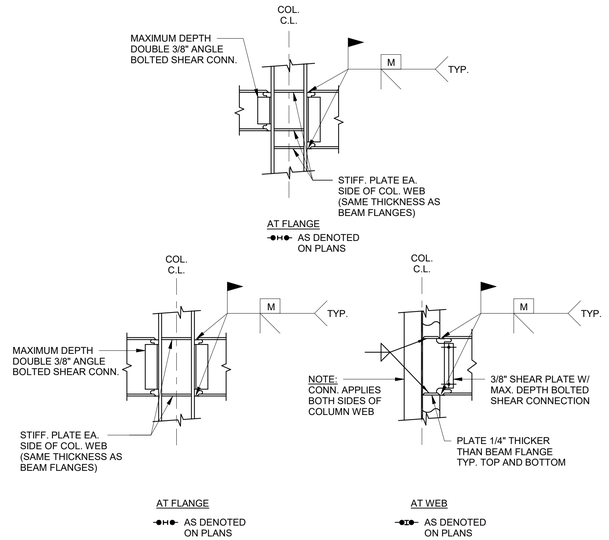
3 S501 TYPICAL COLUMN BASE DETAIL



4 S501 TYPICAL BEAM TO HSS COLUMN MOMENT CONNECTION



5 S501 TYPICAL BEAM TO COLUMN MOMENT WELDED FLANGES



6 S501 TYPICAL BEAM TO COLUMN MOMENT CONNECTION DETAIL

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STEEL DETAILS

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COLUMN SCHEDULE

SECOND FLOOR				SECOND FLOOR
12' - 6" FIRST FLOOR	HSS4X4X1/4 P12	HSS4X4X1/4 P12	HSS4X4X1/4 P12	12' - 6" FIRST FLOOR
0' - 0"				0' - 0"
Column Locations	A-1, B-1	A-2, B-2	C-1, C-2	

FOUNDATION SCHEDULE

DESIGNATION	FOOTING SIZE (HEELxTOExDEPTH) or (WxD)	LONG. BOTTOM REBAR	LONG. TOP REBAR	TRANSV. BOTTOM REBAR	TRANSV. TOP REBAR	COMMENTS
SF3	3'-0"x3'-0"x1'-0"	(4) #4	(4) #4	(4) #4	(4) #4	
WF2	2'-0"x1'-0"	(3) #5	N/A	#4 @ 12" O.C.	N/A	
WF4	4'-0"x1'-0"	(4) #5	(4) #5	#4 @ 12" O.C.	#4 @ 12" O.C.	

CONCRETE PIER SCHEDULE

DESIGNATION	D(in.)xW(in.)	VERTICAL REBAR	REBAR TIES	COMMENTS
P12	12"x12"	(4) #6	#3 @ 10" O.C.	N/A

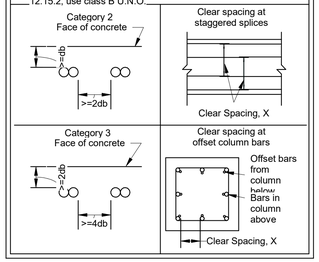
REINFORCING LAP LENGTH SCHEDULE

Tension lap spice lengths, (bar diameters, db) for grade 60 uncoated bars; normal-weight concrete

f'c (psi)	Bar Size	Lap Class	Lap Length per Spacing and Cover Case					
			Top Horizontal Bars			All Other Bars		
			Category			Category		
			1	2	3	1	2	3
3000	#3-#6	A	86db	58db	36db	66db	44db	28db
		B	112db	74db	46db	86db	58db	36db
	#7-#11	A	107db	72db	43db	83db	55db	33db
		B	139db	93db	56db	107db	72db	43db
4000	#3-#6	A	74db	50db	30db	58db	38db	24db
		B	98db	66db	40db	74db	50db	31db
	#7-#11	A	93db	62db	37db	72db	48db	29db
		B	121db	81db	49db	93db	62db	37db
5000	#3-#6	A	68db	46db	32db	52db	34db	21db
		B	86db	58db	42db	68db	46db	27db
	#7-#11	A	83db	56db	34db	64db	43db	26db
		B	108db	72db	43db	83db	56db	34db
6000	#3-#6	A	62db	42db	26db	48db	32db	19db
		B	80db	54db	32db	62db	42db	26db
	#7-#11	A	76db	51db	31db	59db	39db	24db
		B	99db	66db	40db	76db	51db	31db
7000	#3-#6	A	56db	38db	23db	44db	30db	18db
		B	74db	50db	30db	56db	38db	23db
	#7-#11	A	70db	47db	28db	54db	36db	22db
		B	91db	61db	37db	70db	47db	28db
>= 8000	#3-#6	A	54db	36db	22db	42db	28db	18db
		B	68db	46db	28db	54db	36db	22db
	#7-#11	A	66db	44db	27db	51db	34db	21db
		B	85db	57db	34db	66db	44db	27db

Lap Notes:

1. Lap splice lengths are based on ACI318-08 section 12.2 and subsections 12.2.2 and 12.2.3.
2. Category definitions: (see figures below for additional information).
   - Category 1 - Code 12.2.2 other cases - does not meet category 2 or 3.
   - Category 2 - Code 12.2.2 - clear spacing of bars being developed or spliced not less than 2db and clear cover not less than db.
   - Category 3 - Code 12.2.3 - clear cover not less than 2db and clear spacing not less than 4db.
3. Minimum lap splice shall not be less than 12 inches.
4. Multiply above lengths by 1.25 for grade 75 reinforcing steel.
5. Top bars are defined as horizontal reinforcement so placed that more than 12 inches of fresh concrete is cast in the member below the development length or splice.
6. Compression laps for GR. 60 uncoated bars in normal weight concrete with a minimum strength of 3000 psi shall be 30 db. Use 44 db for GR. 75 compression lap.
7. For epoxy-coated bars or wires with cover less than 3db, or clear spacing less than 6db, multiply lap length by 1.5. For all other epoxy coated bars or wires, multiply lap length by 1.2.
8. For lightweight concrete multiply lap length by 1.3.
9. Lap Class is determined in accordance with ACI318-08 section 12.15.2, use class B U.N.O.



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SCHEDULES

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KEYED DEMOLITION NOTES

#	Note Text
D01	REMOVE EXISTING CANOPY IN ITS ENTIRETY.
D05	REMOVE METAL PANEL UP TO GIRT AT +/- 7'-4" AROUND ENTIRE PERIMETER. FIELD VERIFY GIRT HEIGHT.
D06	REMOVE EXISTING SIDEWALK, SEE CIVIL.
D07	REMOVE OVERHEAD DOOR AND OLD ACCESSORIES AS NECESSARY FOR INSTALLATION ON NEW OVERHEAD DOORS.

STATE OF WEST VIRGINIA
RICHARD T. FORREN
No. 2930
REGISTERED ARCHITECT

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03.09.2026
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1 FIRST FLOOR DEMOLITION PLAN
SCALE: 1/16" = 1'-0" SHEET: AD-1.1

2 02 SECOND FLOOR DEMOLITION PLAN
SCALE: 1/16" = 1'-0" SHEET: AD-1.1

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FIRST AND SECOND FLOOR DEMOLITION PLAN

OMNI ARCHITECTS

AD-1.1

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KEYED DEMOLITION NOTES

#	Note Text
D01	REMOVE EXISTING CANOPY IN ITS ENTIRETY.
D02	REMOVE STOREFRONT WINDOW.
D03	REMOVE PORTION OF METAL PANEL FOR NEW ADDITION VESTIBULE. SEE NEW WORK PLANS
D04	REMOVE FULL GLASS DOOR AND FRAME.
D05	REMOVE METAL PANEL UP TO GIRT AT +/- 7'-4" AROUND ENTIRE PERIMETER. FIELD VERIFY GIRT HEIGHT.
D07	REMOVE OVERHEAD DOOR AND OLD ACCESSORIES AS NECESSARY FOR INSTALLATION ON NEW OVERHEAD DOORS.
D08	REMOVE TRANSLUCENT PANELS.

STATE OF WEST VIRGINIA
RICHARD T. FORREN No. 2990
REGISTERED ARCHITECT

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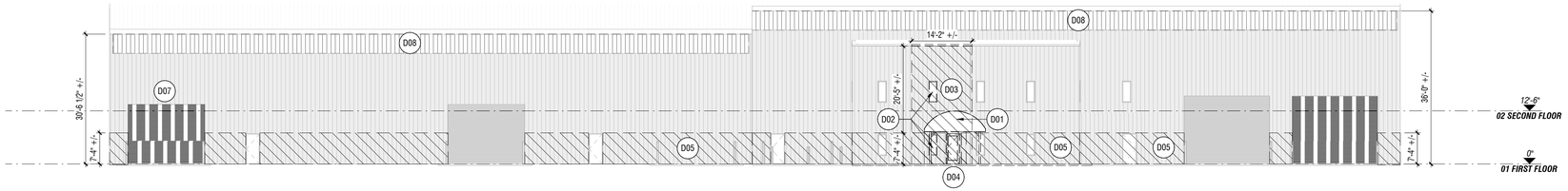
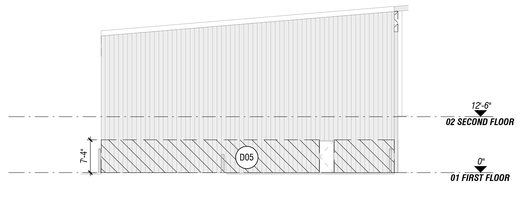
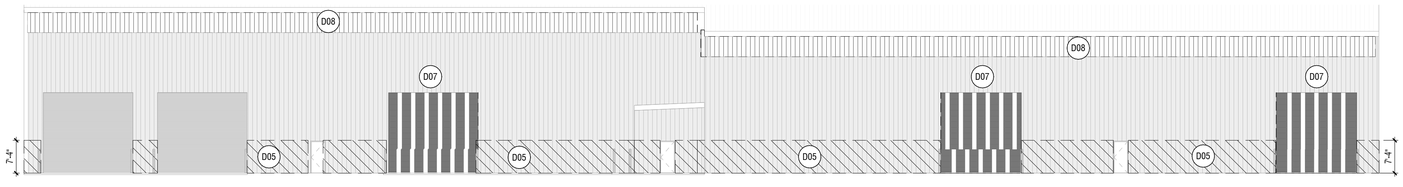


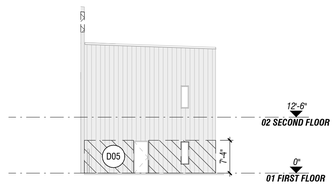
1 WEST ELEVATION (DEMO)
SCALE: 1/16" = 1'-0" SHEET: AD-2.1



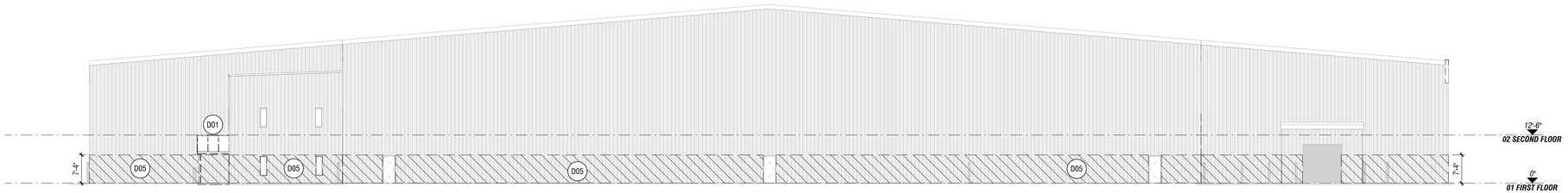
1A ALCOVE ELEVATION 1 (DEMO)
SCALE: 1/16" = 1'-0" SHEET: AD-2.1



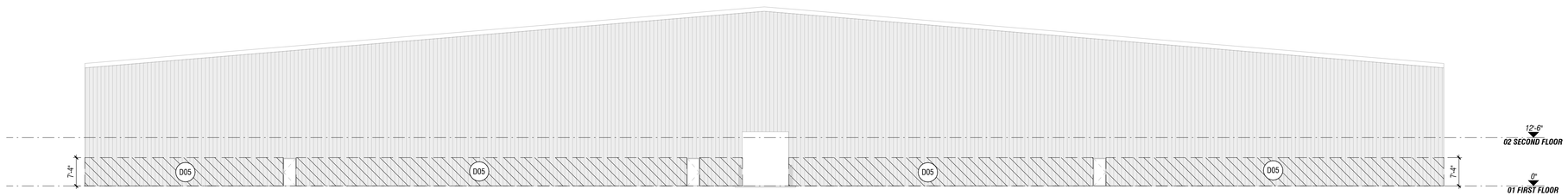
2 EAST ELEVATION (DEMO)
SCALE: 1/16" = 1'-0" SHEET: AD-2.1



1B ALCOVE ELEVATION 2 (DEMO)
SCALE: 1/16" = 1'-0" SHEET: AD-2.1



3 SOUTH ELEVATION (DEMO)
SCALE: 1/16" = 1'-0" SHEET: AD-2.1



4 NORTH ELEVATION (DEMO)
SCALE: 1/16" = 1'-0" SHEET: AD-2.1

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EXTERIOR ELEVATIONS - DEMOLITION

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AD-2.1

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Project No: 2024008.001 **Drawn by:** ---

KEYED DEMOLITION NOTES

#	Note Text
D01	REMOVE EXISTING CANOPY IN ITS ENTIRETY.
D02	REMOVE STOREFRONT WINDOW.
D03	REMOVE PORTION OF METAL PANEL FOR NEW ADDITION VESTIBULE. SEE NEW WORK PLANS
D04	REMOVE FULL GLASS DOOR AND FRAME.
D05	REMOVE METAL PANEL UP TO GIRT AT +/- 7'-4" AROUND ENTIRE PERIMETER. FIELD VERIFY GIRT HEIGHT.
D06	REMOVE EXISTING SIDEWALK, SEE CIVIL.
D09	REMOVE PORTION OF METAL STUD PARTITION AND DRYWALL.
D10	REMOVE WAINSCOTING. PRESERVE FOR RETURNS AND EXTENSIONS ON RE-FINISHED WALLS. SCARF EXTENSIONS.
D11	CUT AND REMOVE PORTION OF PARAPET CAP WHERE NEW WALL ADJOINS EXISTING.

STATE OF WEST VIRGINIA
RICHARD T. FORREN No. 2330
REGISTERED ARCHITECT

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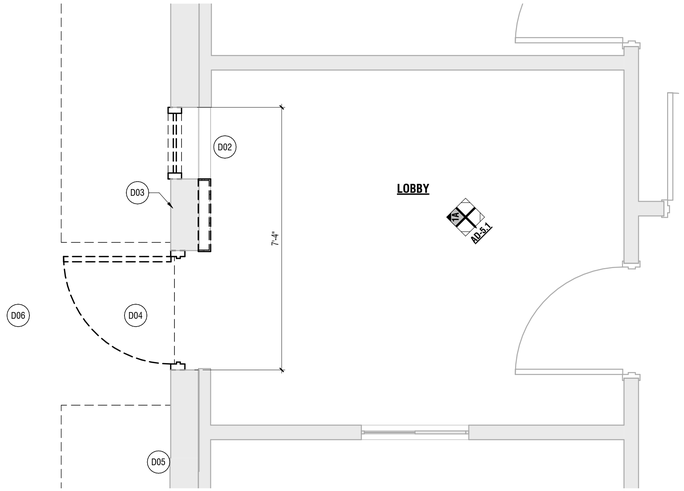
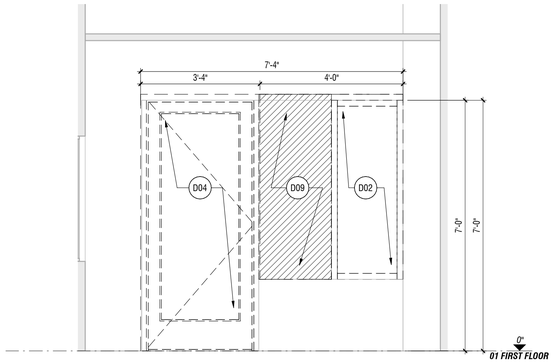
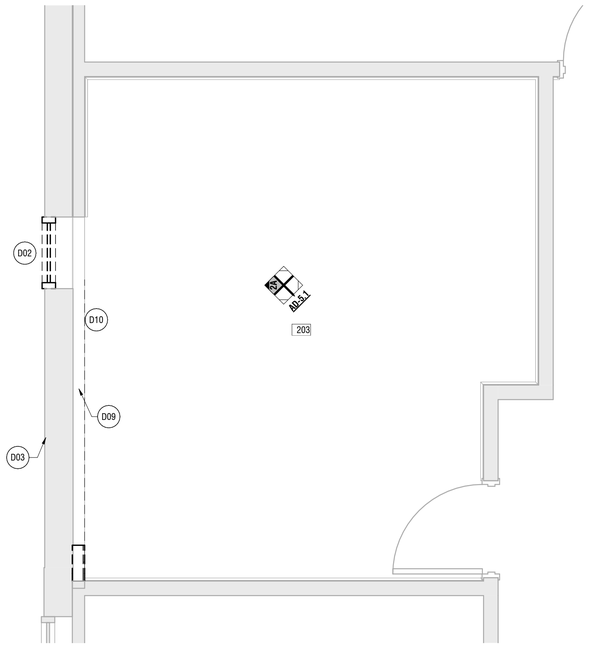


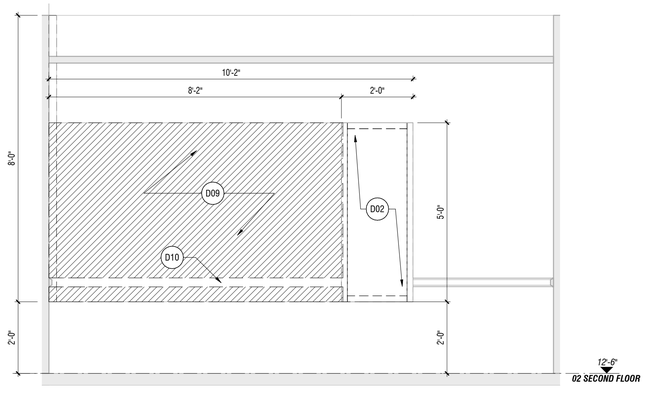
1 LOBBY ENLARGED DEMOLITION PLAN
SCALE: 1/2" = 1'-0" SHEET: AD-5.1



1A LOBBY INTERIOR DEMOLITION ELEVATION
SCALE: 1/2" = 1'-0" SHEET: AD-5.1



2 ROOM T203 ENLARGED DEMOLITION PLAN
SCALE: 1/2" = 1'-0" SHEET: AD-5.1



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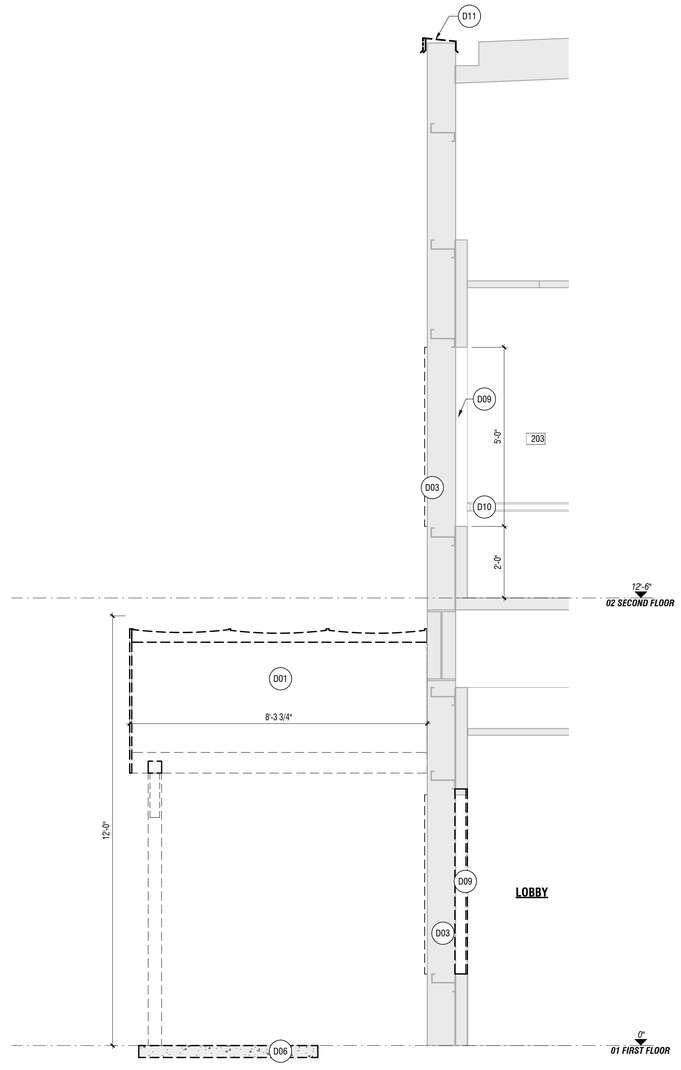
SCALE: 1/2" = 1'-0" SHEET: AD-5.1



3 DEMOLITION SECTION
SCALE: 1/2" = 1'-0" SHEET: AD-5.1

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DEMOLITION DETAILS

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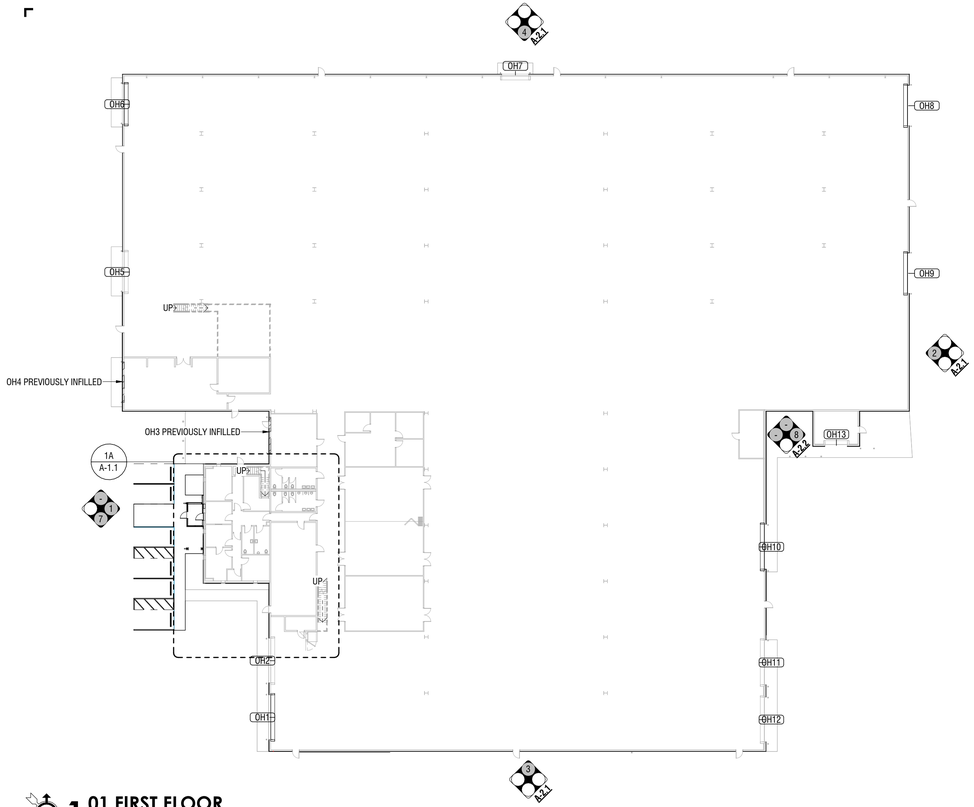
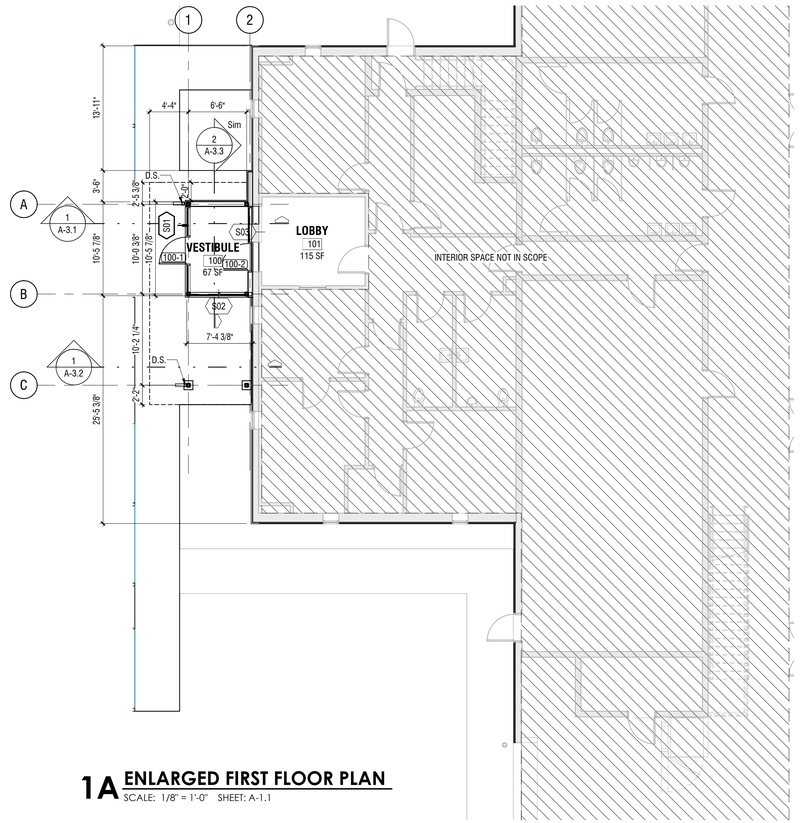


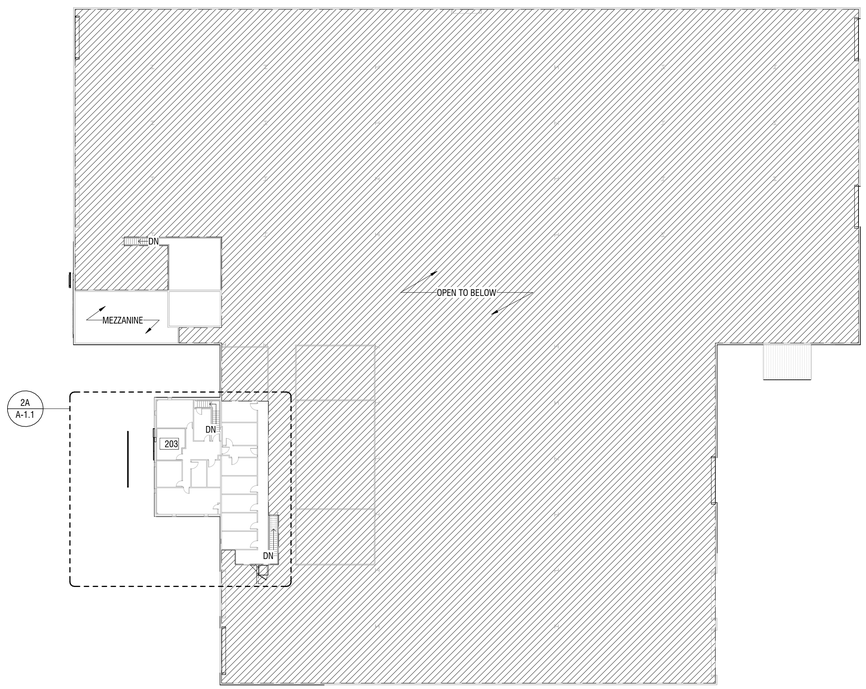
1 01 FIRST FLOOR

SCALE: 1/32" = 1'-0" SHEET: A-1.1



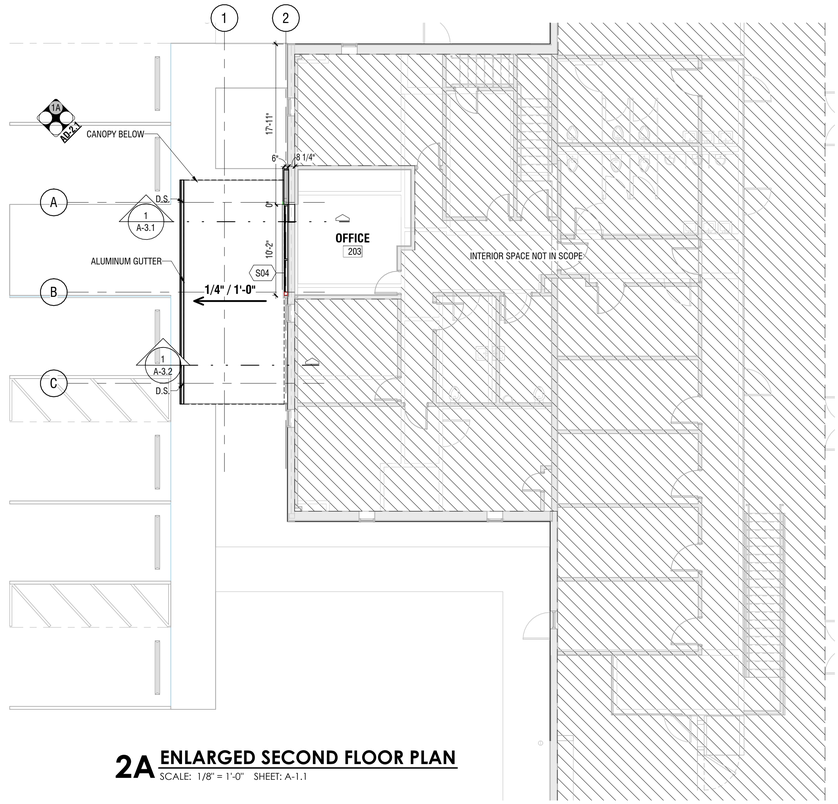
1A ENLARGED FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0" SHEET: A-1.1



2 02 SECOND FLOOR

SCALE: 1/32" = 1'-0" SHEET: A-1.1



2A ENLARGED SECOND FLOOR PLAN

SCALE: 1/8" = 1'-0" SHEET: A-1.1

GENERAL PROJECT NOTES

GENERAL NOTES APPLY TO ALL DRAWINGS

A. Do not scale the drawings.
B. Verify field conditions prior to commencement of each portion of the work.
C. Dimensions for door and window openings are shown nominal. Allow for 1/4-inch (10) shimming and sealant of exterior frames.
D. All dimensions are actual and are to face of studs, face of concrete walls, face of CMU walls, face of frames, or centerline of columns, unless noted otherwise.
E. General contractor shall coordinate all mechanical chase sizes with mechanical subcontractor.
F. The perimeter of each floor assembly shall be sealed with mineral wool insulation to prevent the passage of smoke between floors, even if the adjacent floors are of the same occupancy.
G. The owner shall be responsible for providing the contractor with rough-in information necessary to accommodate the installation of owner furnished and installed items.
H. The contractor shall include all owner furnished and installed items in the construction schedule, and shall coordinate with the owner to accommodate these items.
I. General contractor shall coordinate sizes and locations of concrete housekeeping pads with the mechanical and electrical equipment suppliers. Paint all edges of equipment pads safety yellow.
J. Safety glazing shall be required in the following locations. See IBC Chapter 24 for exceptions.:
   a. Doors
   b. Windows (including sidelites and borrow lites) within 24" of any door where the glazing is less than 60" above the walking surface
   c. Windows, when all of these conditions are met:
      - The exposed glazing is larger than 9sf
      - The bottom edge of glazing is less than 18" above the floor
      - The top edge of the glazing is greater than 36" above the floor
      - One or more walking surfaces are within 36" of the glazing plane
   d. Glazing in guards and railings, including baluster and infill panels
   e. Within 60" of a bathtub, hot tub, spa, whirlpool, or swimming pool if the bottom edge of the glazing is less than 60" above the walking or standing surface
   f. Windows adjacent to stairways or walkways where the glazing is less than 60" above the walking surface
   g. Fire department access panels (including all panes of a multi-pane insulated glass unit)

BID ITEM No. 2: BUILDING EXTERIOR UPGRADES AND PAINTING

- REPLACEMENT OF METAL PANEL FROM 0'-0" TO 7'-6". SEE ELEVATIONS FOR TYPE AND PROFILE.
- REPLACEMENT OF TRANSLUCENT PANELS ON EAST & WEST FACADES. SEE ELEVATIONS FOR EXACT HEIGHT AND LOCATIONS.
- INSTALL NEW OVERHEAD DOORS. SEE SCHEDULE.
- CLEAN (AS NECESSARY) AND PAINT ALL EXISTING BOLLARDS SAFETY YELLOW.
- PAINT EXTERIOR OF BUILDING IN IT'S ENTIRETY.
- PAINT FACADES OF BUILDING AS INDICATED ON PAINT ELEVATIONS.
- CLEAN AND PAINT ALL EXTERIOR SWING DOORS.
- CLEAN AND PAINT OVERHEAD DOORS THAT ARE NOT REPLACED.

BID ITEM No. 3: NEW BUILDING ENTRANCE AND CANOPY

- DEMOLISH EXISTING CANOPY AND ASSOCIATED SUPPORTS.
- CONSTRUCT NEW VESTIBULE AND ENTRANCE CANOPY.
- NEW EXTERIOR ALUMINUM HOLD OFF SIGNAGE ADJACENT TO VESTIBULE.

STATE OF WEST VIRGINIA
RICHARD T. FORREN No. 2930
REGISTERED ARCHITECT

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FIRST AND SECOND FLOOR PLAN

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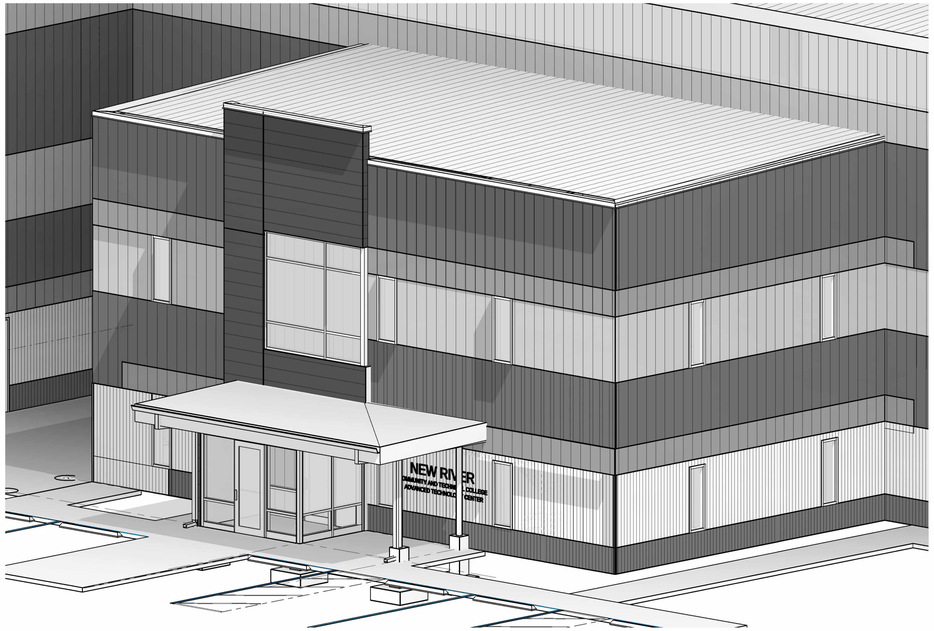


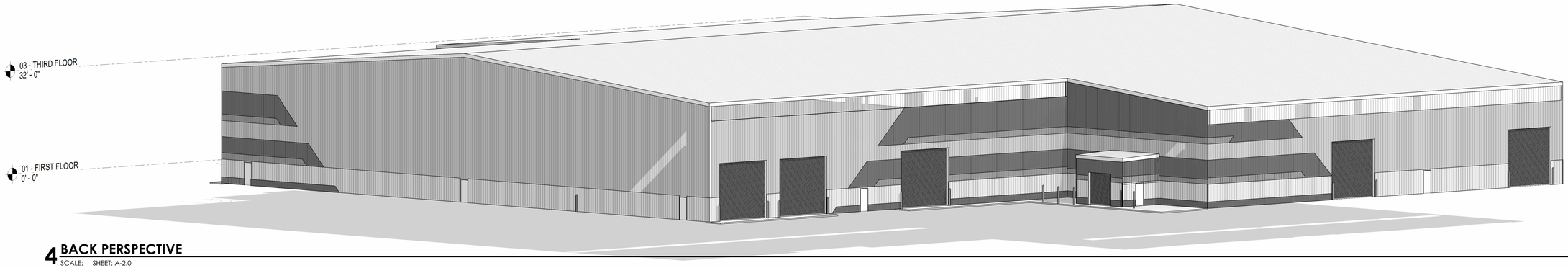
1 ENLARGED ENTRY PERSPECTIVE
SCALE: SHEET: A-2.0



2 ENLARGED ENTRY PERSPECTIVE
SCALE: SHEET: A-2.0



3 FRONT PERSPECTIVE
SCALE: SHEET: A-2.0



4 BACK PERSPECTIVE
SCALE: SHEET: A-2.0

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3D VIEWS

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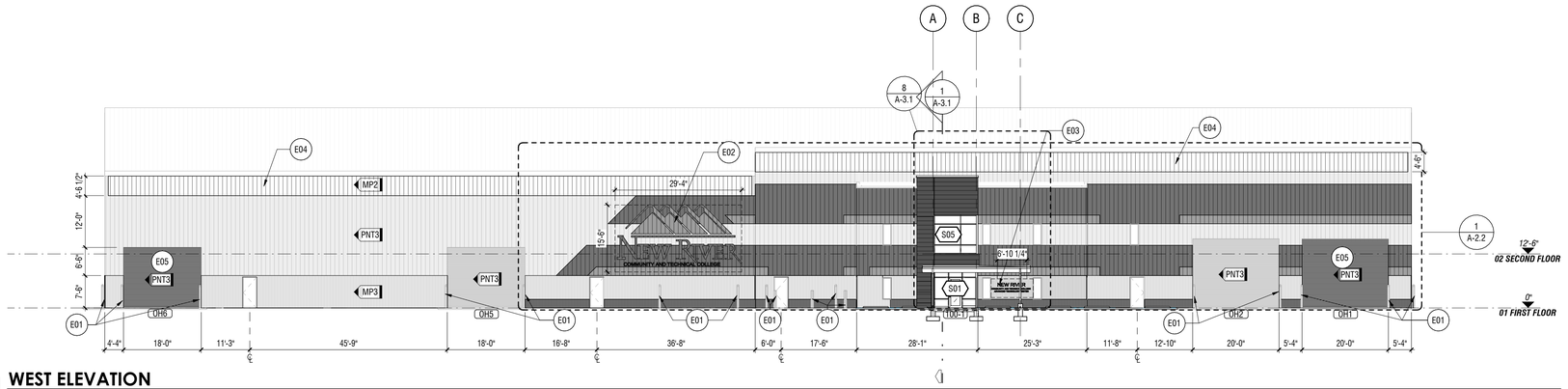
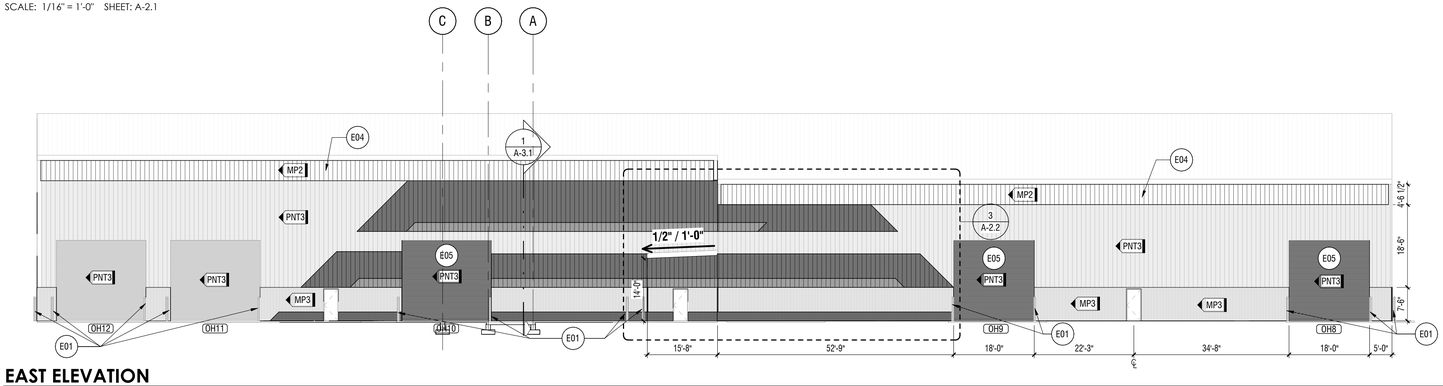


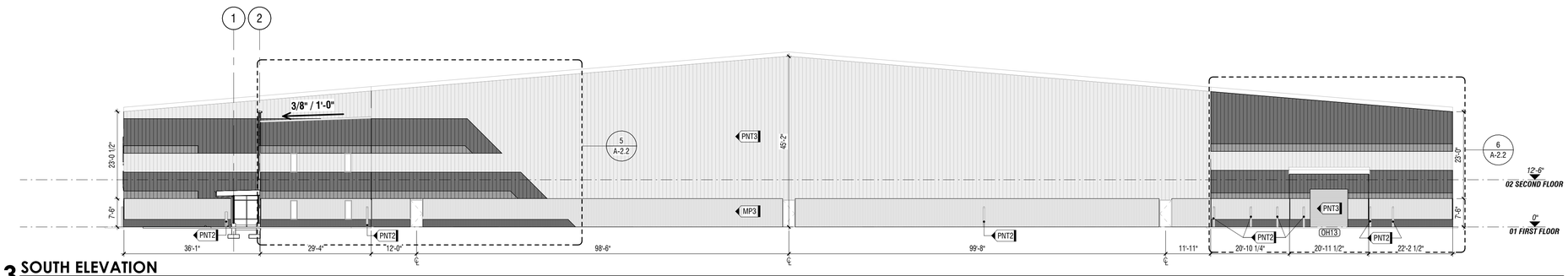
1 WEST ELEVATION

SCALE: 1/16" = 1'-0" SHEET: A-2.1



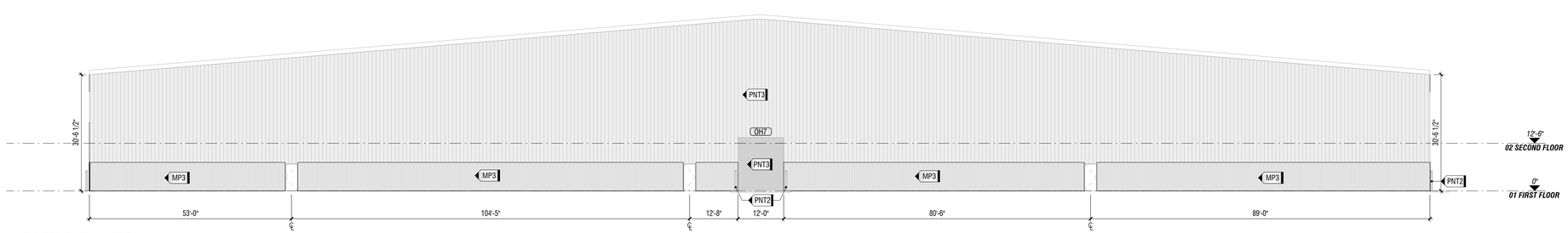
2 EAST ELEVATION

SCALE: 1/16" = 1'-0" SHEET: A-2.1



3 SOUTH ELEVATION

SCALE: 1/16" = 1'-0" SHEET: A-2.1



4 NORTH ELEVATION

SCALE: 1/16" = 1'-0" SHEET: A-2.1

BID ITEM No. 2: BUILDING EXTERIOR UPGRADES AND PAINTING

- REPLACEMENT OF METAL PANEL FROM 0'-0" TO 7'-6". SEE ELEVATIONS FOR TYPE AND PROFILE.
- REPLACEMENT OF TRANSLUCENT PANELS ON EAST & WEST FACADES. SEE ELEVATIONS FOR EXACT HEIGHT AND LOCATIONS.
- INSTALL NEW OVERHEAD DOORS. SEE SCHEDULE.
- CLEAN (AS NECESSARY) AND PAINT ALL EXISTING BOLLARDS SAFETY YELLOW.
- PAINT EXTERIOR OF BUILDING IN IT'S ENTIRETY.
- PAINT FACADES OF BUILDING AS INDICATED ON PAINT ELEVATIONS.
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BID ITEM No. 3: NEW BUILDING ENTRANCE AND CANOPY

- DEMOLISH EXISTING CANOPY AND ASSOCIATED SUPPORTS.
- CONSTRUCT NEW VESTIBULE AND ENTRANCE CANOPY.
- NEW EXTERIOR ALUMINUM HOLD OFF SIGNAGE ADJACENT TO VESTIBULE.

KEYED ELEVATION NOTES

#	Note Text
E01	CLEAN AS NECESSARY AND PAINT ALL EXISTING BOLLARDS SAFETY YELLOW
E02	PAINT EXTERIOR SIGNAGE ONTO METAL PANEL. PROVIDE DOWN LIGHTING FOR SIGNAGE COORDINATE WITH ELECTRICAL DRAWINGS. CONTRACTOR TO COORDINATE SIGNAGE DESIGN AND FONT WITH OWNER.
E03	CAST ALUMINUM SIGNAGE ON HOLD OFF. SIGNAGE TO BE VERIFIED BY OWNER PRIOR TO INSTALLATION
E04	REPLACE AND INSTALL NEW TRANSLUCENT PANELS, REPAIR INTERIOR INSULATION AT WINDOWS IF NECESSARY
E05	NEW OVERHEAD DOOR AS SCHEDULED

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EXTERIOR ELEVATIONS

OMNI ARCHITECTS

A-2.1

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FINISH NOTES

A. Finish notes apply to all finish sheets.
B. All existing exterior swing doors and overhead doors to be cleaned,scraped as necessary, and painted PNT3. Paint frames to match adjacent walls as indicated in paint elevations.
C. Building to be paint PNT3 unless noted otherwise, see exterior paint elevations.
C. All existing bollards to be cleaned, scraped, and painted safety yellow.
D. Signage is indicated as dashed, coordinate location with exterior elevations. Coordinate with electrical drawings.
E. Vestibule finishes:
Flooring: Resilient Plank Flooring 12"x24" stagger install. Patcraft Earthen Mountain 00170-V2
Rubber base: 4" Traditional base Johnsonite TA8 Welsh Castle CB
Paint Color: Sherwin Williams SW9139 Debonair - Eggshell Finish
F. Interior Paint color for lobby and office to match existing. Repaint entire rooms.

EXTERIOR MATERIAL LEGEND

PAINT:

PNT1 BLUE PAINT
SHERWIN WILLIAMS
SW 6516
"DOWN POUR"

PNT2 GREEN PAINT
SHERWIN WILLIAMS
SW 6459
"JADITE"

PNT3 GREY PAINT
SHERWIN WILLIAMS
SW 6235
"FOGGY DAY"

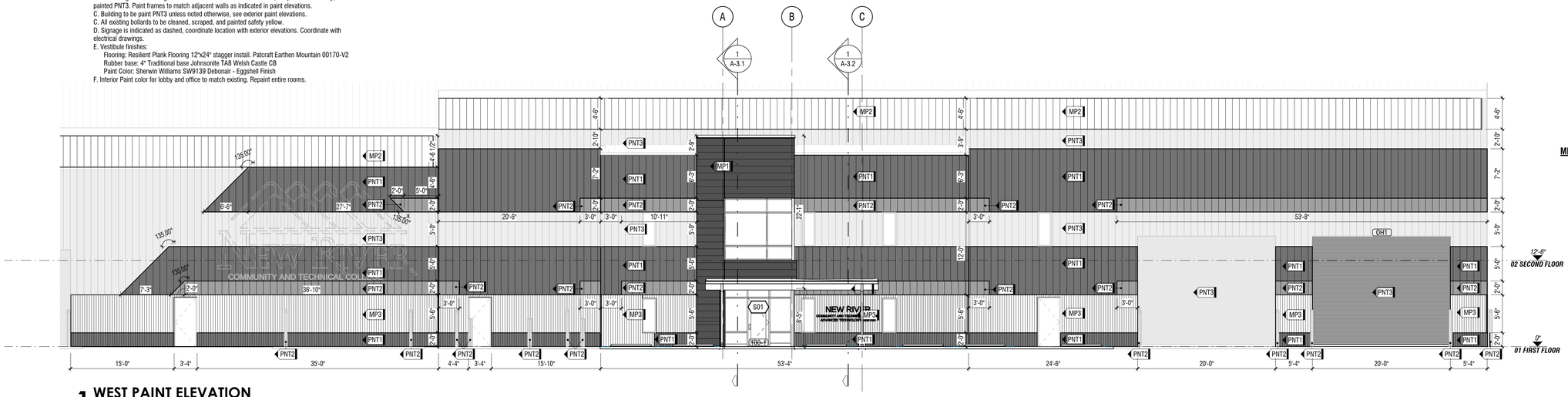
METAL PANEL:

MP1 METAL PANEL INSTALLED HORIZONTALLY
BASIS OF DESIGN: CENTRIA
IW-10A
COLOR MATCH SCHOOL BLUE (PATATONE 286C)

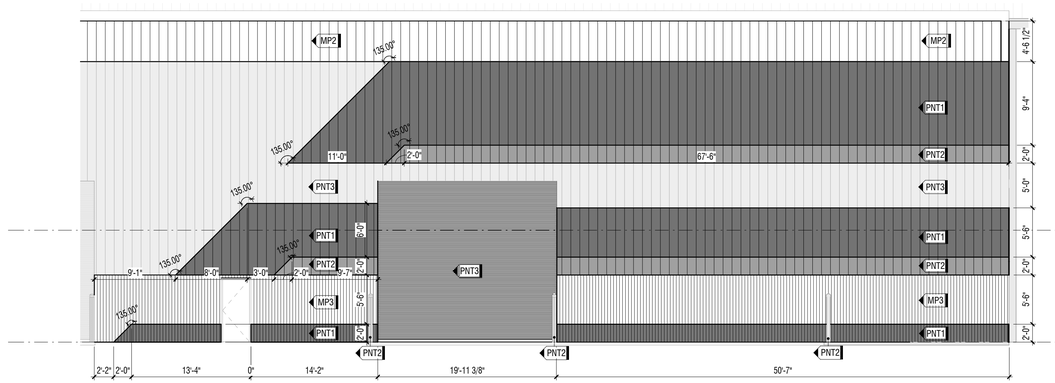
MP2 TRANSLUCENT WALL PANEL
BASIS OF DESIGN: TO MATCH EXISTING PROFILE
TRANSLUCENT WALL PANEL
CLEAR TRANSLUCENT

MP3 METAL PANEL
BASIS OF DESIGN: VARCO PRUDEN OR PROVEN EQUAL
RPR™ WALL PANEL
PAINT TO MATCH PNT3 AND PNT1 WHERE INDICATED ON PAINT ELEVATIONS

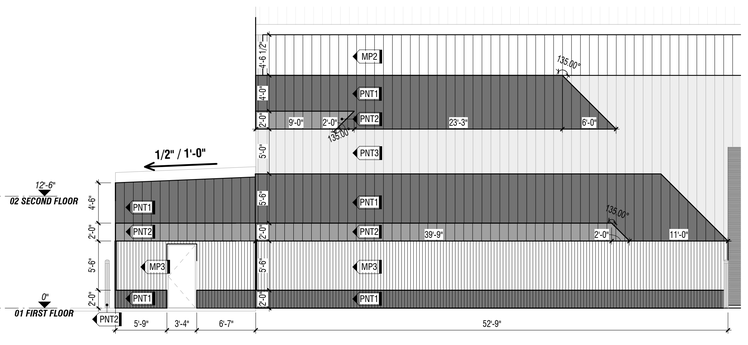
NOTE: EXTERIOR COLOR SELECTIONS ARE TO BE VERIFIED IN SHOP DRAWINGS WITH OWNERS APPROVAL.



1 WEST PAINT ELEVATION
SCALE: 1/8" = 1'-0" SHEET: A-2.2



2 EAST PAINT ELEVATION 1
SCALE: 1/8" = 1'-0" SHEET: A-2.2



3 EAST PAINT ELEVATION 2
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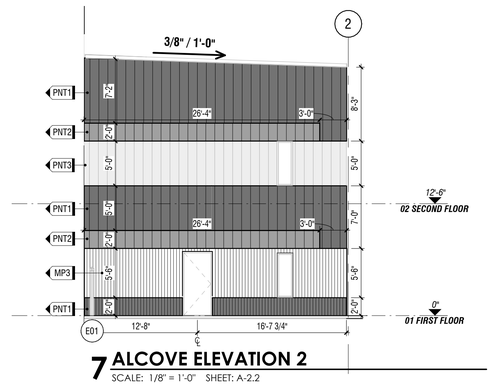
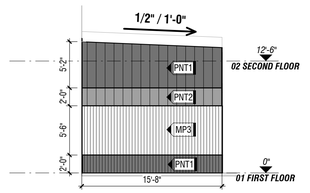
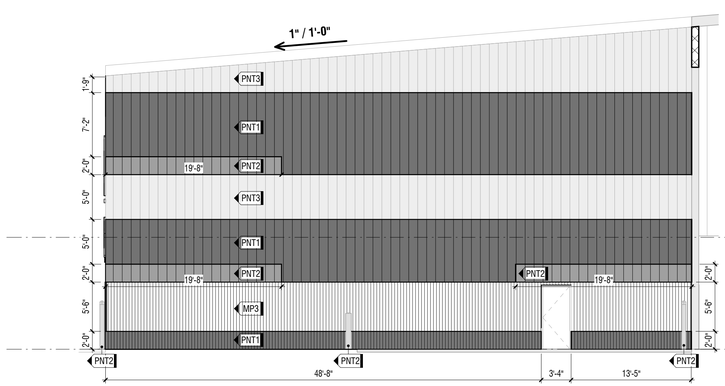


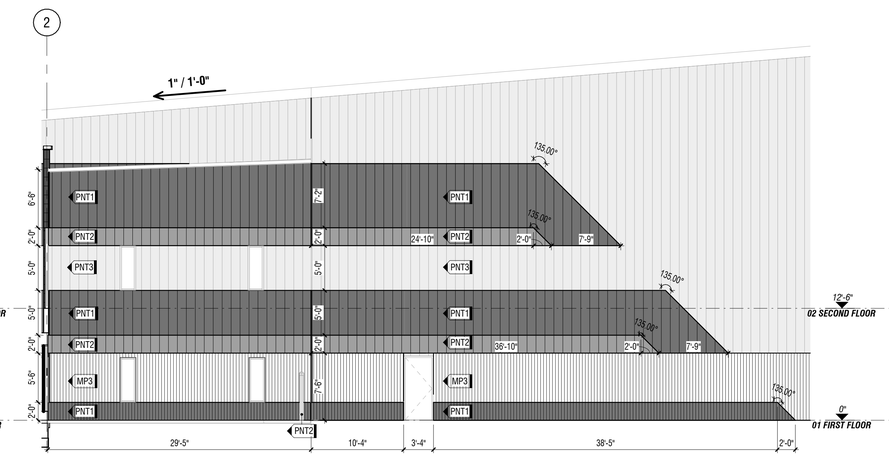
7 ALCOVE ELEVATION 2
SCALE: 1/8" = 1'-0" SHEET: A-2.2



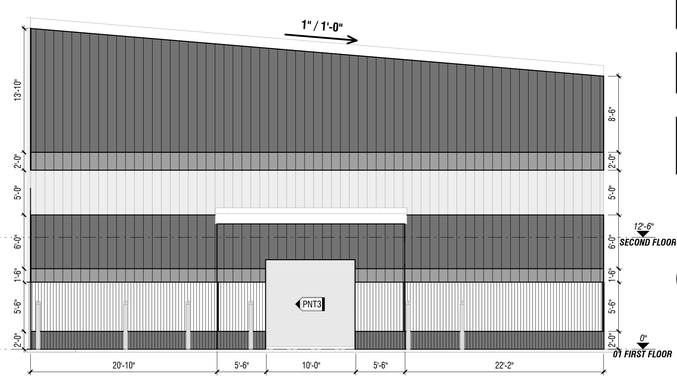
8 EAST ALCOVE ELEVATION
SCALE: 1/8" = 1'-0" SHEET: A-2.2



4 ALCOVE PAINT ELEVATION 1
SCALE: 1/8" = 1'-0" SHEET: A-2.2



5 SOUTH PAINT ELEVATION 1
SCALE: 1/8" = 1'-0" SHEET: A-2.2



6 SOUTH PAINT ELEVATION 2
SCALE: 1/8" = 1'-0" SHEET: A-2.2

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EXTERIOR PAINT ELEVATIONS

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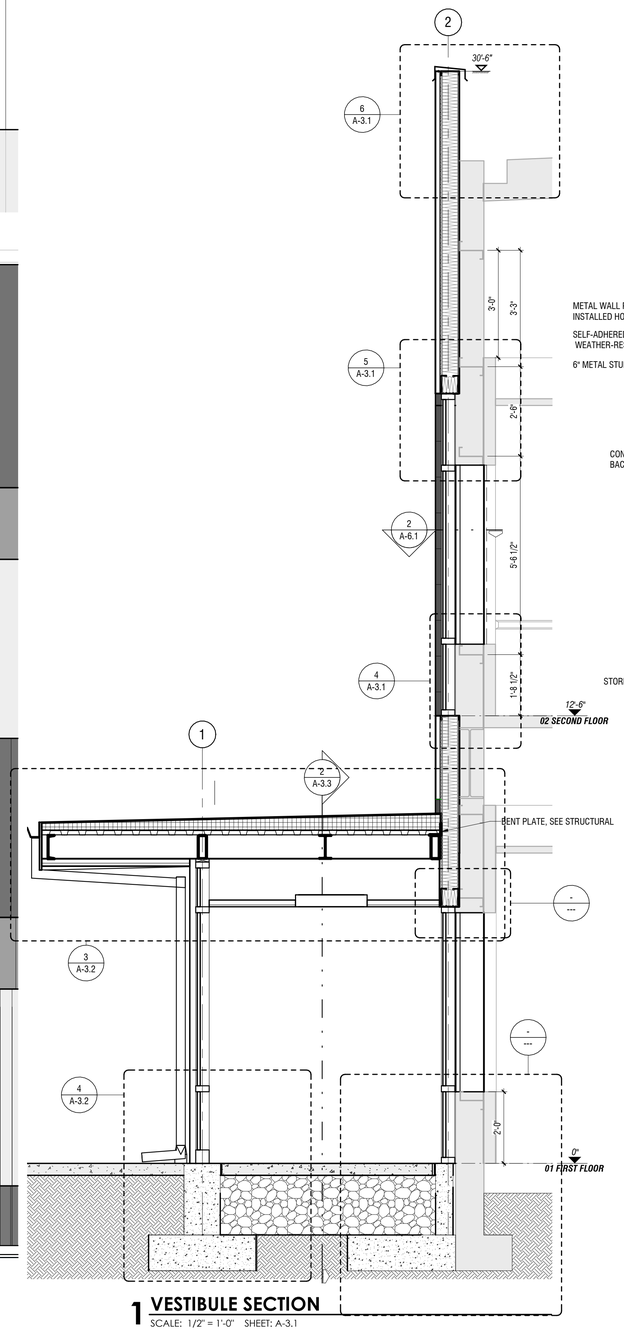
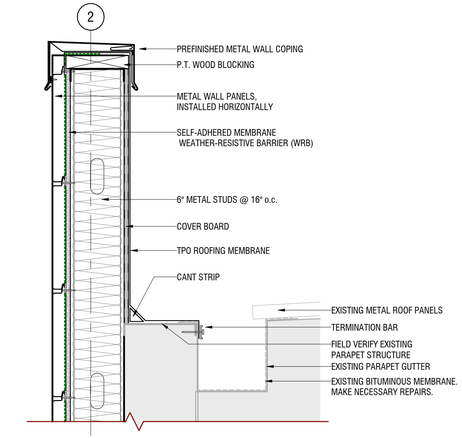
8 WEST ELEVATION - VESTIBULE
SCALE: 1/2" = 1'-0" SHEET: A-3.1

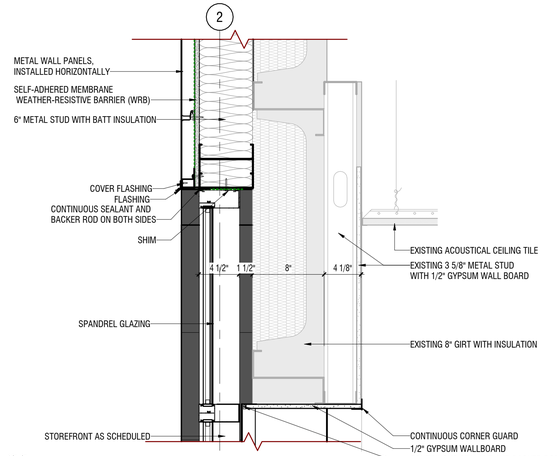


1 VESTIBULE SECTION
SCALE: 1/2" = 1'-0" SHEET: A-3.1

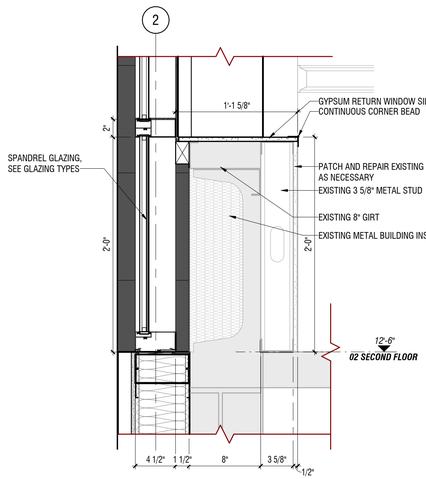


ASSUME PARAPET GUTTER WITH TWO INTERNAL DRAIN AT THE FRONT TWO CORNERS.
CONTRACTOR TO VERIFY EXISTING GUTTER CONDITIONS.

6 PARAPET WALL AT EXISTING PEMB ROOF
SCALE: 1 1/2" = 1'-0" SHEET: A-3.1



5 STOREFRONT HEAD AT NEW WALL DETAIL
SCALE: 1 1/2" = 1'-0" SHEET: A-3.1



4 STOREFRONT SILL DETAIL
SCALE: 1 1/2" = 1'-0" SHEET: A-3.1

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WALL SECTIONS AND DETAILS

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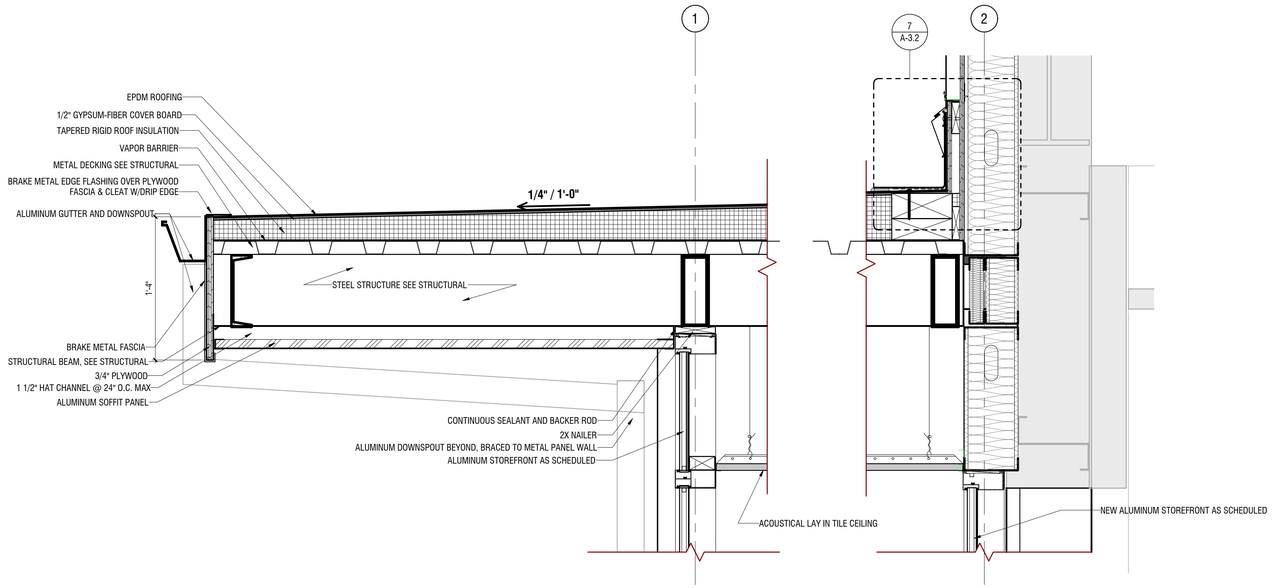
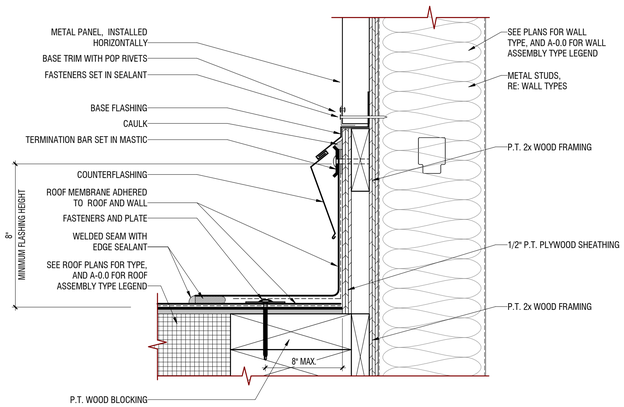


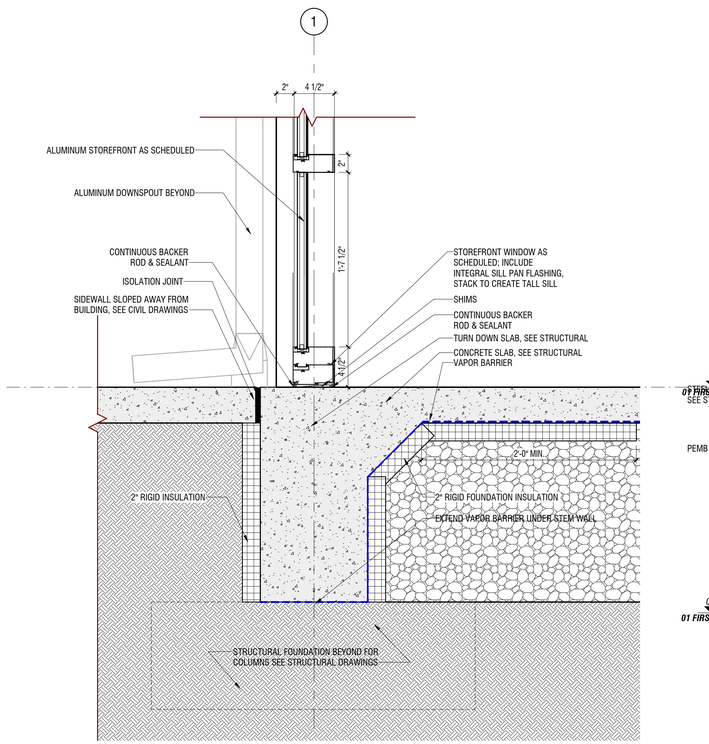
3 VESTIBULE CANOPY DETAIL

SCALE: 1 1/2" = 1'-0" SHEET: A-3.2



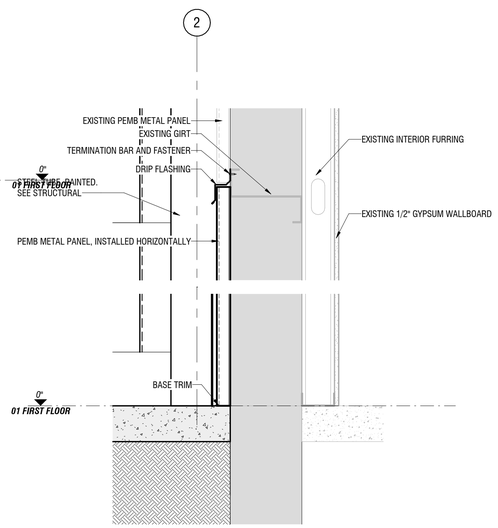
7 ROOF - TERMINATION @ METAL PANELS

SCALE: 3" = 1'-0" SHEET: A-3.2



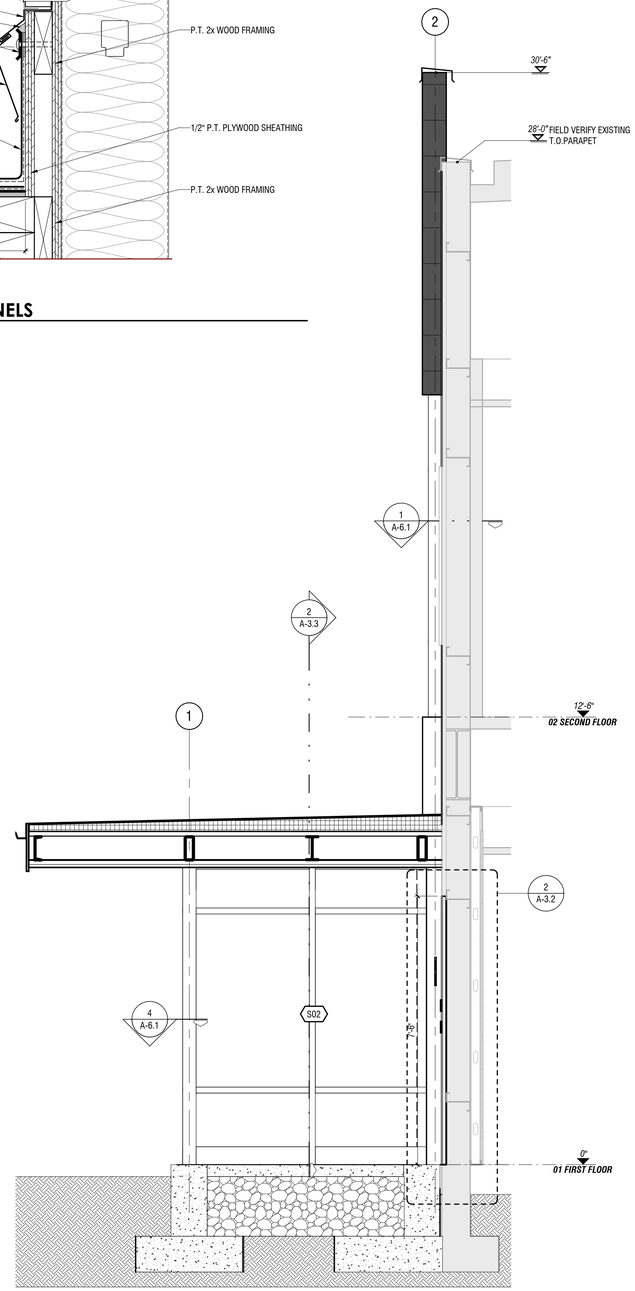
4 VESTIBULE FOUNDATION AT STOREFRONT

SCALE: 1 1/2" = 1'-0" SHEET: A-3.2



2 REPLACEMENT PANEL AT EXISTING DETAIL

SCALE: 1 1/2" = 1'-0" SHEET: A-3.2



1 CANOPY SECTION

SCALE: 1/2" = 1'-0" SHEET: A-3.2

STATE OF WEST VIRGINIA
RICHARD T. FORREN
No. 2930
REGISTERED ARCHITECT

BID DOCUMENTS
03.09.2026
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ATC RENOVATION

NEW RIVER COMMUNITY & TECHNICAL COLLEGE
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WALL SECTIONS AND DETAILS

OMNI ARCHITECTS

A-3.2

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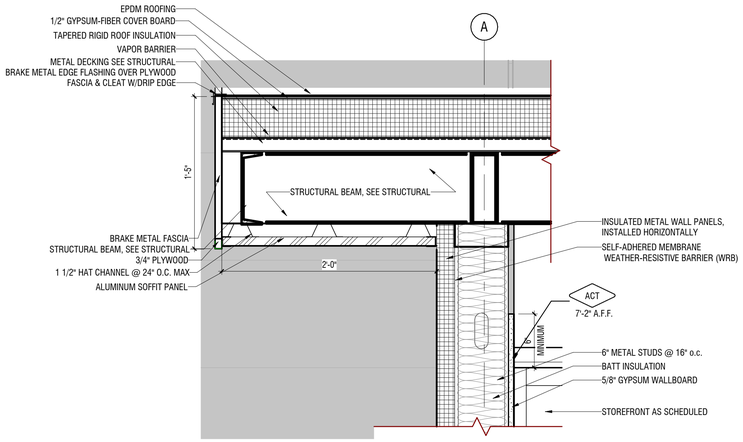
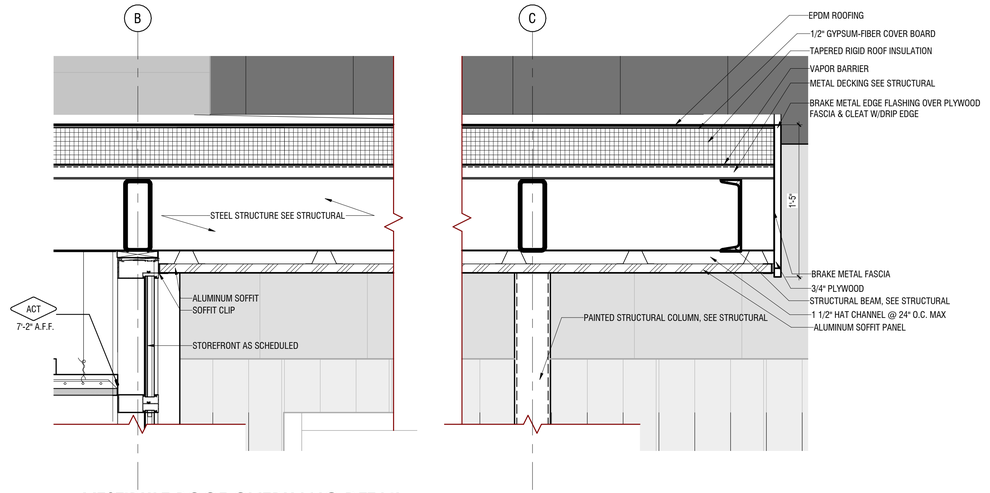


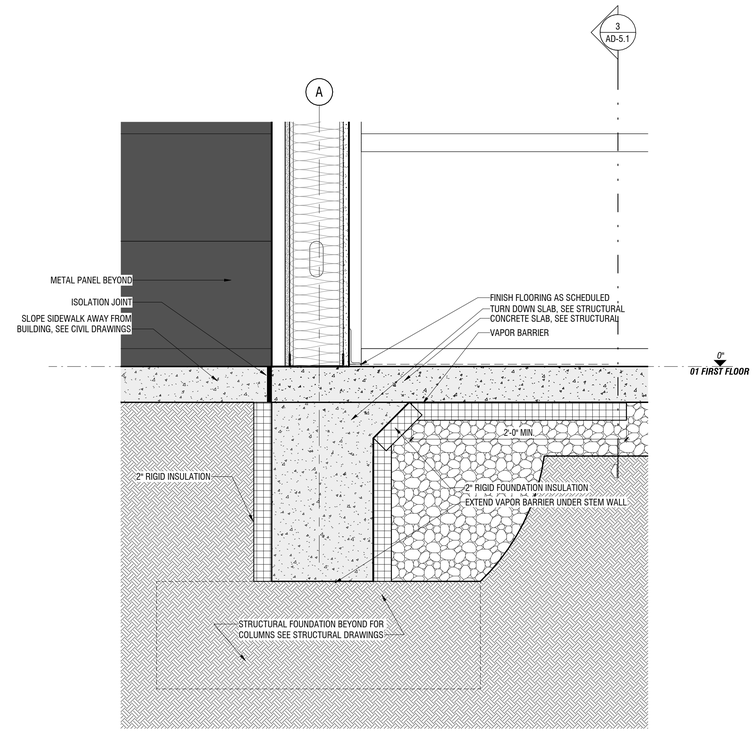
3 VESTIBULE SIDE CANOPY DETAIL

SCALE: 1 1/2" = 1'-0" SHEET: A-3.3



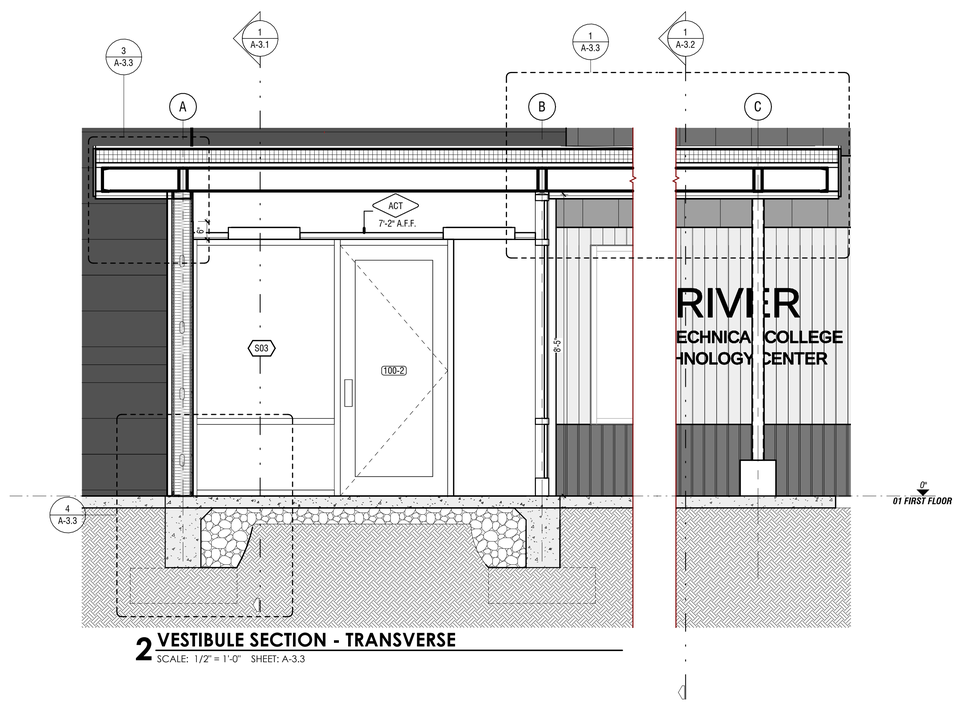
1 VESTIBULE ROOF OVERHANG DETAIL

SCALE: 1 1/2" = 1'-0" SHEET: A-3.3



4 FOUNDATION DETAIL AT METAL STUD VESTIBULE WALL

SCALE: 1 1/2" = 1'-0" SHEET: A-3.3



2 VESTIBULE SECTION - TRANSVERSE

SCALE: 1/2" = 1'-0" SHEET: A-3.3

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WALL SECTIONS AND DETAILS

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A-3.3

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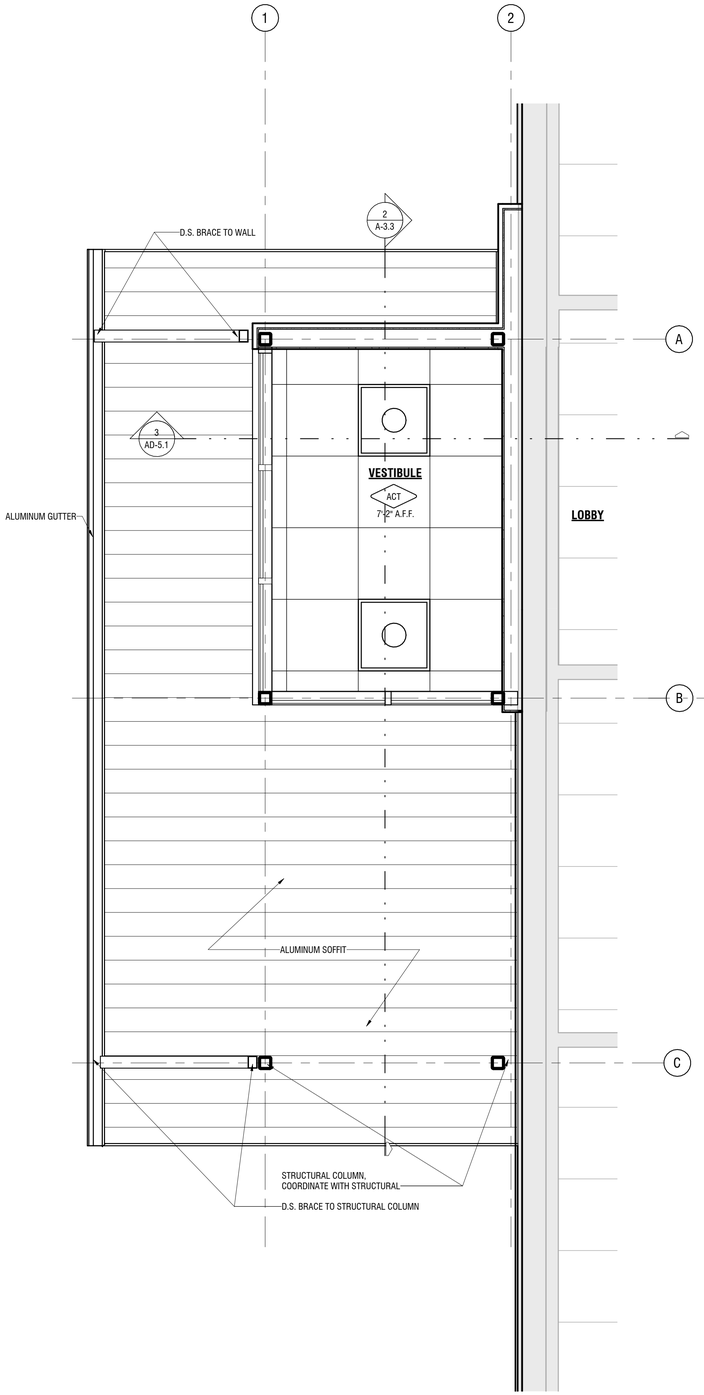
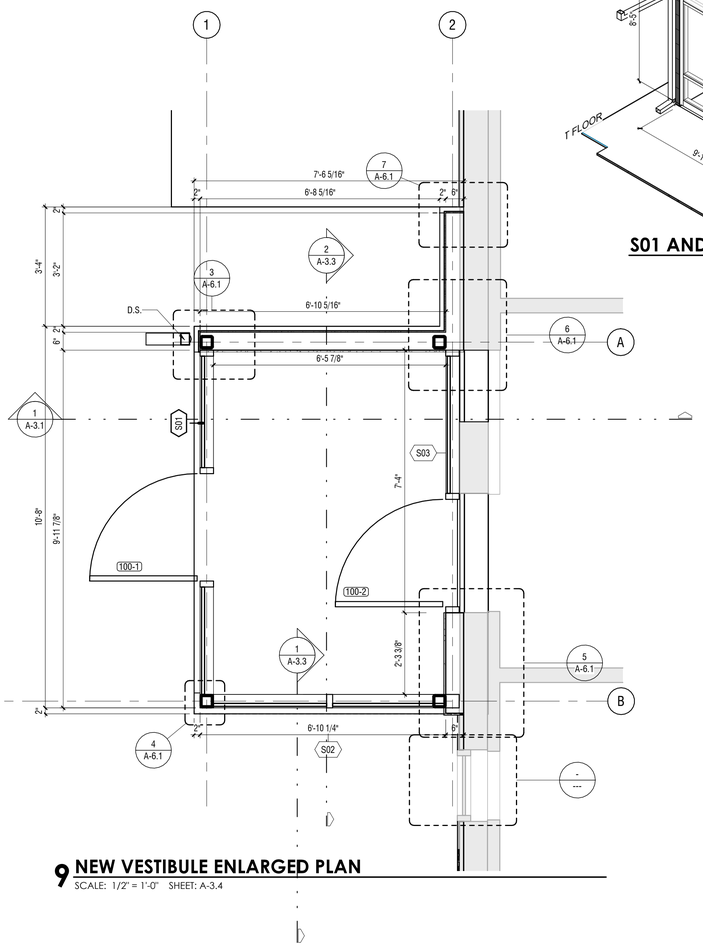


10 VESTIBULE REFLECTED CEILING PLAN

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



9 NEW VESTIBULE ENLARGED PLAN

SCALE: 1/2" = 1'-0" SHEET: A-3.4

CEILING NOTES

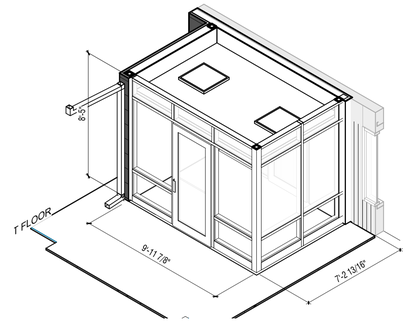
A. All sprinklers, speakers, recessed lights, smoke or thermal detectors shall be centered in ceiling tile unless noted otherwise.
B. Ceiling subcontractor shall provide blocking and tees surrounding mechanical grilles and diffusers, and electrical fixtures in ceiling.
C. All ceiling grids shall be centered in rooms unless noted otherwise.
D. Ceiling notes apply to all reflected ceiling plan sheets.
E. Ceiling heights are as noted on the reflected ceiling plans or in the room finish schedule unless noted otherwise.
F. In suspended acoustical ceilings, provide exposed tees around electrical fixtures, mechanical grilles, diffusers, etc.

CEILING TYPES LEGEND

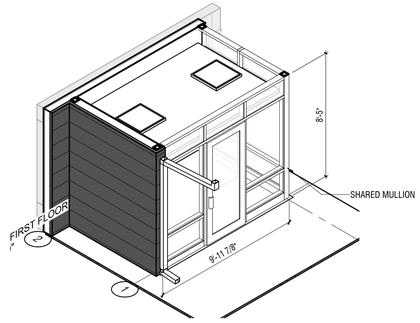
ACT
SUSPENDED 2'x2'
ACOUSTICAL TILE CEILING

RCP SYMBOLS LEGEND

- LIGHT FIXTURE - 2'x4' or 2'x2'
- FIXTURES CONNECTED TO EMERGENCY POWER
- SUSPENDED OR SURFACE MOUNTED STRIP LIGHT
- WALL MOUNTED LIGHT
- RECESSED DOWN LIGHT
- HIGH-BAY LIGHT FIXTURE
- WALL SCONCE
- HVAC SUPPLY DIFFUSER
- HVAC RETURN REGISTER
- HVAC EXHAUST FAN
- HVAC SLOT DIFFUSER
- SMOKE DETECTOR
- OCCUPANCY SENSOR
- WALL-MOUNTED EMERGENCY LIGHT
- EXIT SIGN - SURFACE MOUNTED - SINGLE FACE
- EXIT SIGN - DIRECTIONAL



S01 AND S02 VESTIBULE AXON



S01AND S03 VESTIBULE AXON

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ENLARGED PLANS AND DETAILS

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A-3.4

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FINISH NOTES

A. Finish notes apply to all finish sheets.
B. All existing exterior swing doors and overhead doors to be cleaned,scraped as necessary, and painted PNT3. Paint frames to match adjacent walls as indicated in paint elevations.
C. Building to be paint PNT3 unless noted otherwise, see exterior paint elevations.
C. All existing bollards to be cleaned, scraped, and painted safety yellow.
D. Signage is indicated as dashed, coordinate location with exterior elevations. Coordinate with electrical drawings.
E. Vestibule finishes:
Flooring: Resilient Plank Flooring 12"x24" stagger install. Patcraft Earthen Mountain 00170-V2
Rubber base: 4" Traditional base Johnsonite TA8 Welsh Castle CB
Paint Color: Sherwin Williams SW9139 Debonair - Eggshell Finish
F. Interior Paint color for lobby and office to match existing. Repaint entire rooms.

DOOR SCHEDULE BY DOOR MARK

OPENING	LOCATION		DOOR						FRAME			DETAILS			Hardware Set	Access Control	Comments
	From Room	To Room	Number of Panels	Width	Height	Door Type	Door Material	Door Finish	Frame Type	Frame Material	Frame Finish	Jamb	Head	Threshold			
100-1	VESTIBULE 100			3'-0"	7'-0"	SC	AL	AC	S01	AL	AC	J2	H2	T2	02		
100-2	LOBBY 101	VESTIBULE 100		3'-0"	7'-0"	SC	AL	AC	S04	AL	AC	J2	H2	T2	03		
0H1				20'-0"	16'-0"	OC1	AL	PNT3				J1	H1	T1	01		BROKEN, REPLACE WITH SIMILAR FROM ATLAS OVERHEAD DOORS.
0H6				18'-0"	14'-0"	OC1	AL	PNT3				J1	H1	T1	01		BROKEN, REPLACE WITH SIMILAR FROM ATLAS OVERHEAD DOORS.
0H8				18'-0"	18'-0"	OC1	AL	PNT3				J1	H1	T1	01		BROKEN, REPLACE WITH SIMILAR FROM ATLAS OVERHEAD DOORS.
0H9				18'-0"	18'-0"	OC1	AL	PNT3				J1	H1	T1	01		BROKEN, REPLACE WITH SIMILAR FROM ATLAS OVERHEAD DOORS.
0H10				20'-0"	18'-0"	OC2	AL	PNT3				J1	H1	T1	01		BROKEN, REPLACE WITH SIMILAR FROM ATLAS OVERHEAD DOORS.

DOOR & FRAME NOTES

A. Dimensions of all openings to be field verified prior to fabrication.
B. Provide 1/4" shim and sealant at all exterior openings.
C. Where frames are being welded to steel columns and supports provide sealant in between welds.
D. All glass used in doors shall be safety glass.
E. Glass types for non-rated hollow metal doors and frames to be clear tempered glass.
F. All components of fire rated door openings, including the frame, door, and glass (if present) are to be installed as a complete assembly for their intended use as either fire-resistive or fire-protective construction.
G. Wired glass is not to be used where safety glazing is required.
H. Frame manufacturer and security supplier shall coordinate locations of all concealed conduit and j-boxes required for the security system prior to manufacturing of hollow metal frames.
I. For roll-up doors and counter doors, width and height dimensions shown in door and frame schedule represent clear opening size. Contractor to coordinate exact size of door with roll-up counter door manufacturer.

DOOR TYPE NOMENCLATURE

DOOR SCHEDULES MAY USE THE FOLLOWING ABBREVIATIONS:

DOOR OR FRAME *MATERIALS:*
HM HOLLOW METAL
AL ALUMINUM

DOOR OR FRAME *FINISHES:*
P PAINT
AC ANODIZED - CLEAR

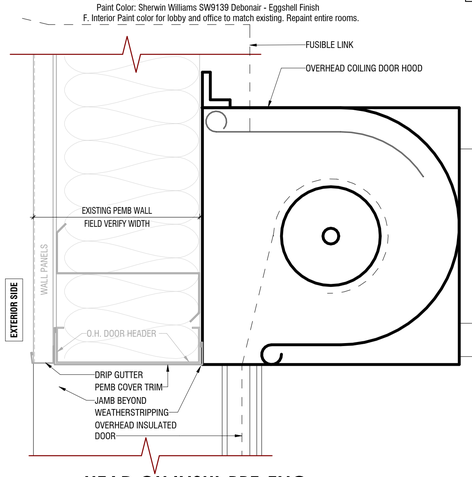
PANEL TYPES:
OC OVERHEAD COILING
SC STOREFRONT WIDE STILE

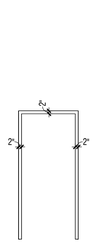
GLAZING TYPES LEGEND

S1 **DESCRIPTION:** INSULATED SPANDREL GLASS
TOTAL THICKNESS: 1"
COLOR \ TINT:

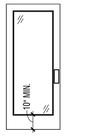
V1 **DESCRIPTION:** INSULATED VISION GLASS
TOTAL THICKNESS: 1"
COLOR \ TINT:

T1 **DESCRIPTION:** TEMPERED INSULATED VISION GLASS
TOTAL THICKNESS: 1"
COLOR \ TINT:

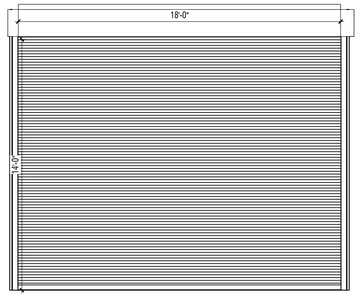




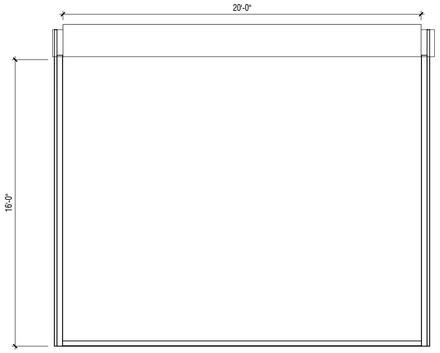
A



SC
(STOREFRONT WIDE-STILE)

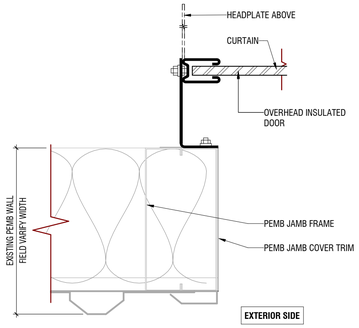


OC1



OC2

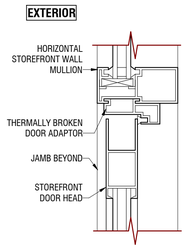
H1 HEAD OH INSUL PRE-ENG



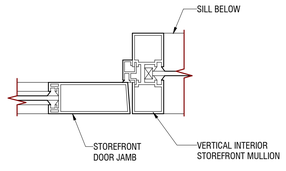
J1 JAMB OH INSUL PRE-ENG

DOOR FRAME TYPES

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



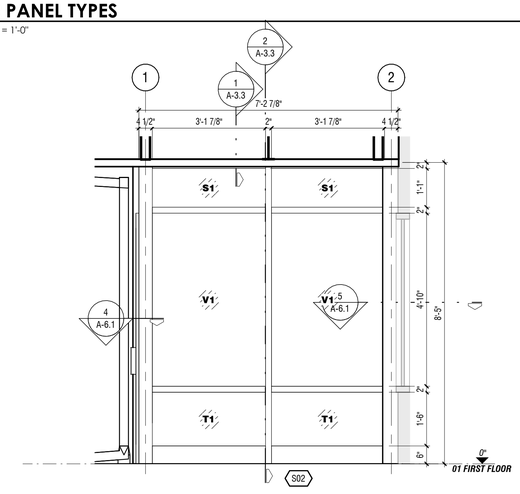
H2 HEAD STOREFRONT @ MULLION



J2 JAMB STOREFRONT JAMB @ MULLION

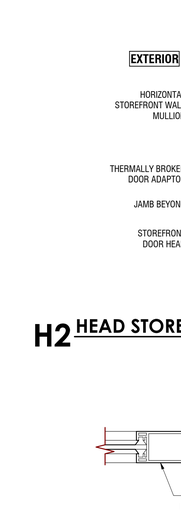
DOOR PANEL TYPES

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

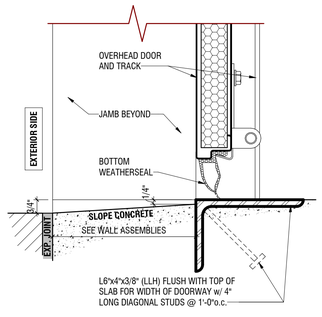


S02 STOREFRONT S02 ELEVATION

SCALE: 1/2" = 1'-0" SHEET: A-6.0

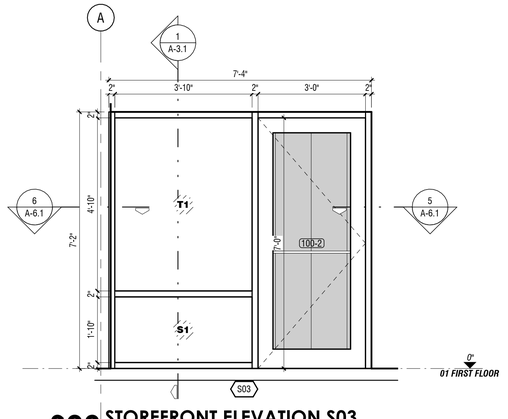


T2 THRESHOLD EXTERIOR STOREFRONT DOOR



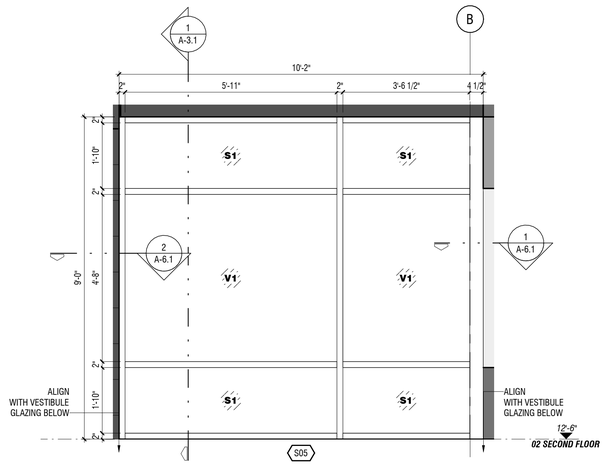
T1 DOOR THRESHOLD OH INSUL @ CONC

SCALE: 3" = 1'-0" SHEET: A-6.0



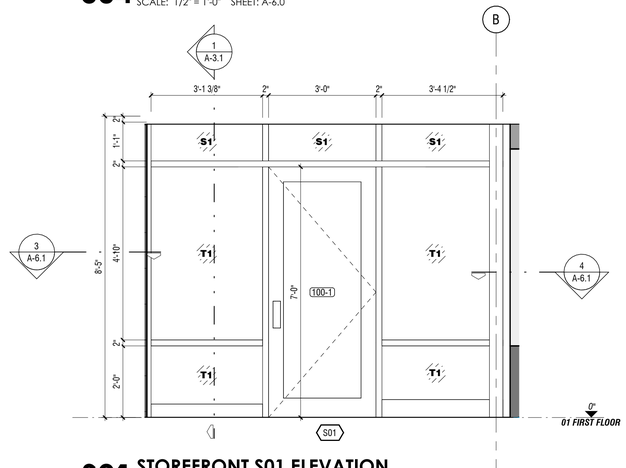
S03 STOREFRONT ELEVATION S03

SCALE: 1/2" = 1'-0" SHEET: A-6.0



S04 STOREFRONT S04 ELEVATION

SCALE: 1/2" = 1'-0" SHEET: A-6.0



S01 STOREFRONT S01 ELEVATION

SCALE: 1/2" = 1'-0" SHEET: A-6.0

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DOOR AND WINDOW ELEVATIONS AND SCHEDULE

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A-6.0

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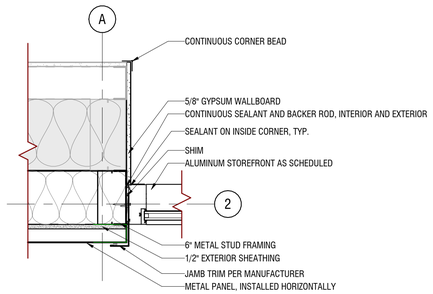
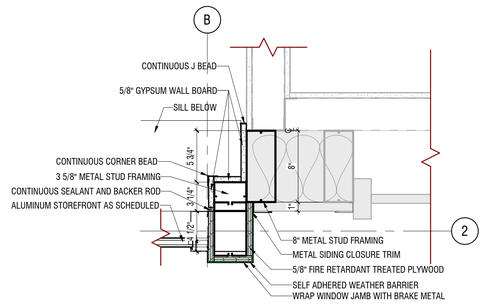
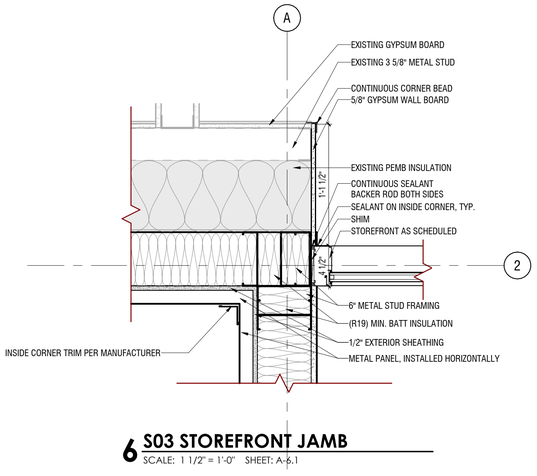


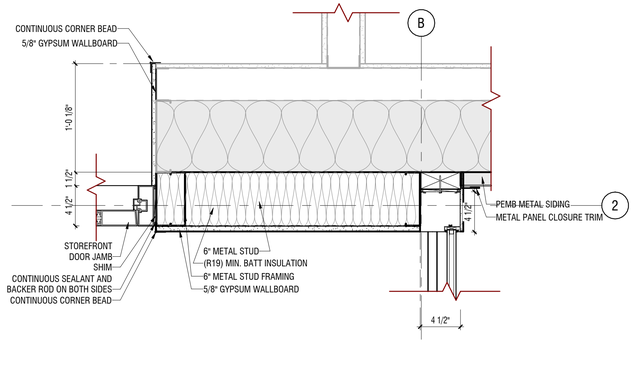
2 S05 STOREFRONT JAMB
SCALE: 1 1/2" = 1'-0" SHEET: A-6.1



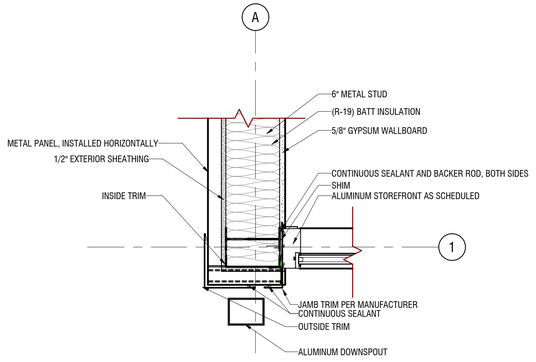
1 S05 STOREFRONT JAMB
SCALE: 1 1/2" = 1'-0" SHEET: A-6.1



6 S03 STOREFRONT JAMB
SCALE: 1 1/2" = 1'-0" SHEET: A-6.1



5 S03 STOREFRONT DOOR JAMB
SCALE: 1 1/2" = 1'-0" SHEET: A-6.1



3 S01 STOREFRONT JAMB
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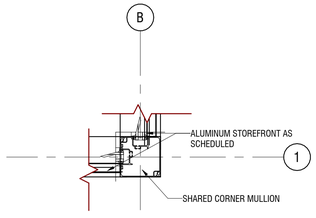
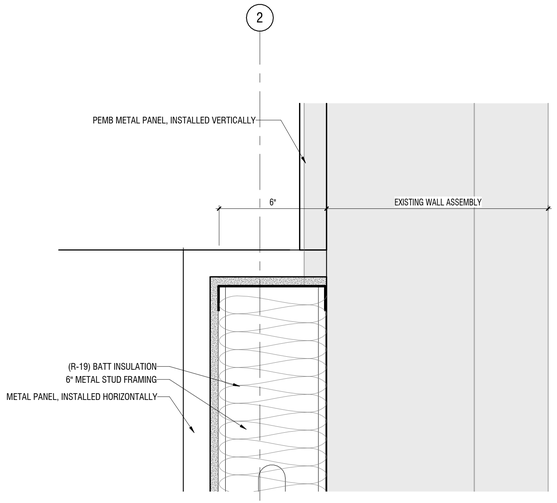


4 SQARE CORNER MULLION DETAIL AT S01 AND S02
SCALE: 1 1/2" = 1'-0" SHEET: A-6.1



7 NEW VESTIBULE ENLARGED PLAN - STUD WALL MEETS NEW METAL SIDING
SCALE: 3" = 1'-0" SHEET: A-6.1

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STOREFRONT DETAILS

OMNI ARCHITECTS

A-6.1

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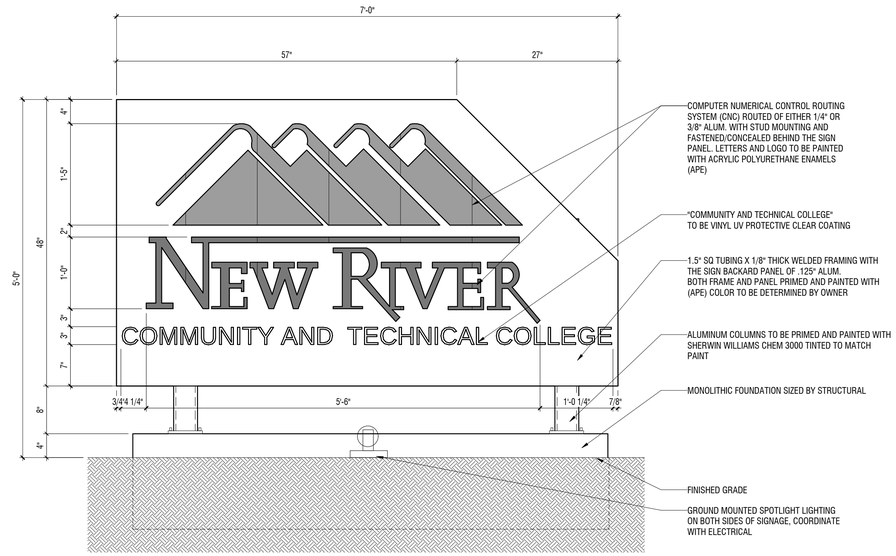
Project No: 2024008.001 Drawn by: ---

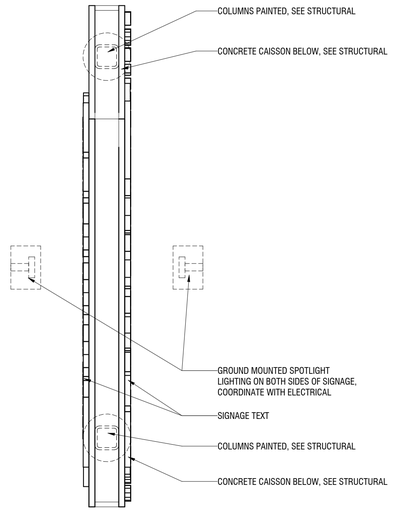


1 EXTERIOR MONUMENTAL SIGNAGE ELEVATION

SCALE: 1" = 1'-0" SHEET: A-8.1

NOTES:

1. **THE BACKGROUND TO BE SEAMLESS SHEET.**
2. **MECHANICALLY RIVET THE BACKGROUND TO THE 1/5" SQ TUBING ALONG WITH CHEMICALLY WELDING THE PANEL TO THE FRAMING.**
3. **RIVETS TO BE PLACED WHERE THEY WOULD NOT BE VISIBLE BEHIND THE LETTER.**
4. **WOULD NEED PMS COLORS FOR THE ENTIRE SIGNAGE.**
5. **FASTENERS TO BE STAINLESS.**
6. **MECHANICAL FASTENERS FOR THE PANELS TO THE COLUMNS.**
7. **BASE PLATES AND BOLTS TO NEW FOUNDATION.**
8. **HALOPHANE TYPE GROUND FLOOD LIGHTING A POSSIBLE CONSIDERATION.**



2 EXTERIOR SIGNAGE PLAN

SCALE: 1" = 1'-0" SHEET: A-8.1

STATE OF WEST VIRGINIA
RICHARD T FORREN
No. 2330
REGISTERED ARCHITECT

BID DOCUMENTS
03.09.2026
REVISIONS ▼

EXTERIOR SIGNAGE - ALTERNATE #2

ATC RENOVATION

NEW RIVER COMMUNITY & TECHNICAL COLLEGE
527 Odd Rd.
Ghent, WV 25843

OMNI ARCHITECTS

A-8.1

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Project No: 2024008.001 **Drawn by:** SEC

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	TURN UP OR FROM BELOW		COLD WATER PIPE (CW)
	TURN DOWN		HOT WATER PIPE (HW)
VTR	VENT THRU ROOF	140	(HW) PIPE @140°F
	BALL VALVE		HOT WATER RECIRCULATING (HWC)
	CHECK VALVE	ST	BELOW GRADE STORM DRAIN
	UNION	SAN	SANITARY SEWER
	GAS VALVE	AW	ACID WASTE PIPING
	GAS VALVE IN VERTICAL	AV	ACID VENT PIPING
A	SHOCK ABSORBER, LETTER DESIGNATES SIZE		VENT PIPING
	PRESSURE REGULATING VALVE	G	GAS PIPING
FCO	FLOOR CLEANOUT	WH	WALL HYDRANT
SCO	SURFACE CLEANOUT	RD	ROOF DRAIN
FD	FLOOR DRAIN	FM	FORCE MAIN PIPING
	FLOOR SINK	FP	FIRE PROTECTION PIPING
P-1	FIXTURE DESIGNATION	CD	CONDENSATE DRAIN PIPING
RWC	ABOVE GRADE RAINWATER CONDUCTOR	DSN	DOWNSPOUT NOZZLE
	STRAINER	SRD	SECONDARY ROOF DRAIN
		1	KITCHEN EQUIPMENT NUMBER

GENERAL PLUMBING NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF INTERNATIONAL PLUMBING CODE & LOCAL AUTHORITIES HAVING JURISDICTION.
2. ALL PIPING IN EXTERIOR WALLS TO BE RUN ON BUILDING SIDE OF INSULATION.
3. PIPING LAYOUT IS SCHEMATIC, EXACT LOCATIONS OF PIPES TO BE COORDINATED WITH BUILDING STRUCTURE AND WORK OF OTHER TRADES.
4. MINIMUM PIPE SLOPE ON THE DRAINAGE AND VENT SYSTEM WITHIN THE BUILDING.
   A. 2" PIPING SHALL SLOPE AT LEAST 1/4" PER FOOT.
   B. ALL PIPE 3" AND LARGER SHALL SLOPE AT LEAST 1/8" PER FOOT.
5. PIPING SHALL NOT BE ROUTED ABOVE ELECTRIC PANELS.
6. COORDINATE PIPING IN TOILET AREAS WITH RECESSED TOILET ACCESSORIES. OFFSET PIPING AS REQUIRED TO ALLOW RECESS OF THESE ITEMS. SEE ENLARGED TOILET PLANS FOR LOCATIONS.
7. NOT ALL PLUMBING FIXTURES, ACCESSORIES AND PIPE SIZES ARE NECESSARILY SHOWN ON THIS DRAWING. REFER TO ALL OTHER SECTIONS, DETAILS, RISERS, PLANS AND SPECIFICATIONS FOR THIS PROJECT FOR COMPLETE SYSTEM REQUIREMENTS.
8. ALL PENETRATIONS THROUGH FIRE/SMOKE RATED CONSTRUCTION WILL BE SEALED WITH A FIRE RATED CAULK EQUAL TO OR EXCEEDING THE CONSTRUCTION FIRE RATING.
9. COORDINATE FINAL LOCATION OF PLUMBING FIXTURES, PIPING, ACCESSORIES, ETC. WITH GENERAL CONTRACTOR BEFORE FABRICATION OR INSTALLATION.
10. COORDINATE ALL PENETRATIONS OF FLOORS, ROOF, WALLS, ETC. WITH GENERAL CONTRACTOR.

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	CIRCUIT SETTER (GPM INDICATED ON PLANS)
	ROUND FLEXIBLE DUCT (ONLY @ DIFFUSER CONNECTION)
FD	FIRE DAMPER
	MANUAL BALANCING DAMPER
	SUPPLY DUCT RISER
	RETURN OR OUTSIDE AIR DUCT RISER
	EXHAUST AIR DUCT RISER
24"X10"	DUCT SIZE INSIDE DIMENSIONS - 24"W x 10"D
10"ø	DUCT SIZE - 10" DIAMETER
T	THERMOSTAT
H	HUMIDISTAT
	CONNECT TO EXISTING
WG	WIRE GUARD
(EX)	EXISTING
SD	DUCT MOUNT SMOKE DETECTOR
LS	LOOP SUPPLY PIPING
LR	LOOP RETURN PIPING

(2) 1 10"x18" 400

- 1 — DIFFUSER SYMBOL-SEE SCHEDULE
- 10"x18" — NECK SIZE
- 400 — DESIGN CUBIC FEET PER MINUTE OF AIR
- (2) — QUANTITY FOR ROOM OR SPACE

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISH FLOOR
BTU	BRITISH THERMAL UNIT
DN	DOWN
GC	GENERAL CONTRACTOR
GPM	GALLON PER MINUTE
NTS	NOT TO SCALE
PC	PLUMBING CONTRACTOR
(TYP)	TYPICAL
VTR	VENT THRU ROOF
W/	WITH
WG	WIRE GUARD
WP	WEATHER PROOF

GENERAL MECHANICAL NOTES

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE HVAC SYSTEM AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
2. CERTAIN ITEMS SUCH AS RISES AND DROPS IN DUCTWORK, ACCESS DOORS, VOLUME DAMPERS, ETC., ARE INDICATED FOR CLARITY IN CERTAIN AREAS. THIS DOES NOT RELIEVE THE CONTRACTOR OF PROVIDED THESE ITEMS NOT SHOWN IN OTHER AREAS AS REQUIRED FOR A COMPLETE INSTALLATION.
3. REFER TO CLASSROOM CONTROL PANEL DETAIL FOR MOUNTING HEIGHT OF C02 SENSOR, HUMIDITY SENSOR, AND TEMPERATURE SENSOR.
4. ALL DUCTWORK SHALL CLEAR DOORS AND WINDOWS.
5. ALL DUCTWORK DIMENSIONS, AS SHOWN ON DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS. DUCT SIZE SHALL BE INCREASED IN SIZE TO COMPENSATE FOR INTERNAL LININGS.
6. COORDINATE DIFFUSER, REGISTER, AND GRILLE LOCATIONS WITH ARCHITECTURAL PLANS, LIGHTING, AND OTHER ITEMS LOCATED IN CEILING.
7. LOCATE ALL MECHANICAL EQUIPMENT FOR UNOBSTRUCTED ACCESS TO UNIT ACCESS PANELS, CONTROLS, AND VALVING.
8. PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS CONNECTED TO AIR HANDLING UNITS, RTU, EXHAUST FANS, AND OTHER EQUIPMENT THAT REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECTION UNLESS NOTED OTHERWISE.
9. RUNS OF FLEXIBLE DUCTWORK SHALL NOT EXCEED 5 FEET.
10. ALL DUCTWORK SHALL BE COORDINATED WITH OTHER TRADES. OFFSETS AND TRANSITIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
11. PROVIDE ACCESS DOORS IN DUCTWORK WHERE REQUIRED.
12. ALL DUCTS SHALL BE GROUNDED ACROSS FLEXIBLE CONNECTIONS WITH FLEXIBLE COPPER GROUNDING STRAPS.
13. SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MOUNTING THE SMOKE DETECTOR IN THE DUCTWORK.
14. CONTROL RELAYS SHALL BE WIRED BY THE ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND MOUNTING THE RELAY IN THE EQUIPMENT.
15. TURNING VANES SHALL BE INSTALLED IN ALL RECTANGULAR DUCT ELBOWS THAT EXCEED 45° CHANGE IN DIRECTION.
16. INSTALL 1" DUCTLINER IN FIRST 15' OF ALL RETURN AIR DUCTS.

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	MT HEIGHT UNO
A	PLAN NOTE	
	WIRING IN CONDUIT CONCEALED IN CEILING, OR IN WALL. CONDUIT AND WIRE AS REQUIRED BY CODE UNLESS OTHERWISE NOTED.	
	CONDUIT STUBBED OUT	
HA-1	BRANCH CIRCUIT, "HA" DESIGNATES PANEL "1" DESIGNATES CIRCUIT NUMBER	
	SINGLE RECEPTACLE, NEMA CONFIGURATION TO MATCH EQUIPMENT	
	GROUNDING TYPE DUPLEX RECEPTACLE	16" AFF
GFI	GROUND FAULT INTERRUPTER TYPE DUPLEX RECEPTACLE	16" AFF
GFI	GROUND FAULT INTERRUPTER TYPE DUPLEX RECEPTACLE	48" AFF
	DOUBLE DUPLEX RECEPTACLE MOUNTED IN TWO-GANG BOX	16" AFF
C	CLOCK OUTLET, SINGLE-GANG BOX W/ 3/4" CONDUIT	80" AFF
JB	JUNCTION BOX	
	RECESSED LED LIGHT FIXTURE	
	CEILING MOUNTED LED LIGHT FIXTURE	
	SURFACE LED STRIP LIGHT FIXTURE	
	EMERGENCY LIGHT FIXTURE	
EM	EMERGENCY LIGHT FIXTURE	
	PENDANT MOUNT LIGHT FIXTURE	
	WALL MOUNTED LIGHT FIXTURE	
	EXIT SIGN WALL MOUNTED WITH REMOTE HEAD.	
SS	TWO SINGLE POLE TOGGLE SWITCHES FOR DUAL LIGHTING CONTROL.	48" AFF
S	SINGLE POLE TOGGLE SWITCH.	48" AFF
S_3	THREE-WAY TOGGLE SWITCH	48" AFF
S_4	FOUR-WAY TOGGLE SWITCH	48" AFF
S_K	KEY OPERATED SWITCH	48" AFF
2	DATA OUTLET, SINGLE-GANG BOX W/ 1" CONDUIT TO ABOVE ACCESSIBLE CEILING. NUMBER DENOTES QUANTITY OF R-45 JACKS, PROVIDE COVER PLATE, CAT 6 CABLE.	
FS	SPRINKLER WATER FLOW SWITCH, FURNISHED AND INSTALLED BY SPRINKLER CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR	
MS	MASTER STATION FOR A.I. PHONE	
AI	A.I. PHONE	
M	MIRCROPHONE OUTLET	
OS	OCCUPANCY SENSOR	
IER	INTERCOM EQUIPMENT RACK	
ACP	ACCESS CONTROL PANEL	
	DIRECT CONNECTION	
C	CLOSED CIRCUIT TELEVISION CAMERA	
	PANELBOARD, SEE PANEL SCHEDULES ON DRAWINGS FOR RATING AND SIZE	
	MOTOR CONNECTION	
	EQUIPMENT OUTLET, 2 OR 3 POLE	

SYMBOL	DESCRIPTION	MT HEIGHT UNO
TS	SPRINKLER VALVE TAMPER SWITCH, FURNISHED AND INSTALLED BY SPRINKLER CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR	
ANN	FIRE ALARM SYSTEM REMOTE ANNUNCIATOR PANEL	
FACP	FIRE ALARM CONTROL PANEL	
	COMBINATION AUDIBLE/VISUAL (STROBE) FIRE ALARM SIGNAL.	80" AFF
	FIRE ALARM STROBE	80" AFF
SD	DUCT MOUNTED SMOKE DETECTOR	
S	SMOKE DETECTOR.	
H	HEAT DETECTOR.	
	FIRE ALARM MANUAL PULL STATION	48" AFF
T	DRY-TYPE TRANSFORMER	
	FUSED SAFETY DISCONNECT SWITCH, HEAVY DUTY, "NFSS" DENOTES NON-FUSED SAFETY SWITCH	
S	CEILING SPEAKER, FLUSH MOUNTED IN CEILING.	
SSS	SOUND SYSTYEM CEILING SPEAKER, FLUSH MOUNTED IN CEILING.	
S	CEILING MOUNTED SPEAKER 1'x2'	
I	INTERCOM HANDSET, SINGLE-GANG BOX W/ 1" CONDUIT MOUNTED AT 44" A.F.F.	48" AFF
CR	CARD READER	48" AFF
DH	DOOR HOLD OPEN	
DR	DATA RACK	
CCTV	CLOSED CIRCUIT TV PANEL	
CATV	CABLE TV PANEL	
S	GYM SOUND SYSTEM SPEAKER	
R	FIRE ALARM RELAY	
P	PAGE/HORN	
SS	SOUND SYSTEM CABINET	
	NOTIFIER FOR DOORBELL SYSTEM	
IC	INTERCOM CONSOLE	
	PHONE OR DATA OUTLET, SINGLE-GANG BOX W/ 1" CONDUIT TO ABOVE ACCESSIBLE CEILING.CABLE AND COVERS BY OTHERS.	
PB	EMERGENCY LOCK DOWN PANIC BUTTON	
USB	USB OUTLET	
VD	VIDEO OUTLET	

GENERAL FIRE ALARM NOTES

1. PROVIDE ALL MATERIAL AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL A COMPLETE AND OPERABLE FIRE ALARM SYSTEM DEVICES AS INDICATED ON THE DRAWINGS ARE SCHEMATIC IN NATURE. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL WORK AR REQUIRED BY LOCAL AHJ AT NO ADDITIONAL COST TO THE OWNER.
2. IT SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY TO PROVIDE A FIRE ALARM SYSTEM IN FULL COMPLIANCE WITH THE LATEST EDITION OF (NFPA 72, WV STATE FIRE CODE, AND ADA).
3. THIS BUILDING WILL BE PARTIALLY SPRINKLED PER NFPA 13.
4. SUPPLY A 120 VOLT CONNECTION AS REQUIRED AT ALL SYSTEMS EQUIPMENT.
5. DEVICES SHOWN ARE APPROXIMATE LOCATIONS. FIELD VERIFY ACTUAL CONDITIONS.
6. DO NOT SUPPORT RACEWAYS FROM PIPES DUCTS OR CEILING SUSPENSION SYSTEM.
7. EXPOSED RACEWAY AND BLANK COVERS SHALL BE PAINTEDTO MATCH EXISTING SURFACES.
8. SURFACES DAMAGED BY THIS CONTRACTOR SHALL BE REPAIRED.
9. WHERE SURFACES ARE REQUIRED TO BE PATCHED OR REPAIRED, SURFACE SHALL BE PAINTED TO MATCH ADJACENT SURFACE.
10. ALL JUNCTION BOX COVERS IN FIRE ALARM RACEWAY SHALL BE PAINTED RED.
11. MOUNTING HEIGHT OF FIRE ALARM STROBE SHALL BE 80" AFF.
12. SYSTEM SHALL INTERFACE WITH HOOD SUPPRESSION SYSTEM PER NFPA.
13. SYSTEM SHALL INTERFACE WITH SHUNT TRIP BREAKERS OR GAS VALVE FOR ALL EQUIPMENT LOCATED UNDER THE KITCHEN HOOD.

FIRE ALARM SYSTEM NOTES

1. ALL EXTERIOR DOORS SHALL HAVE A PULL STATION MOUNTED ADJACENT TO THE DOOR. SPACING OF PULL STATIONS SHALL NOT EXCEED 200' ALONG PATH OF EGRESS.
2. FIELD VERIFY LOCATION AND QUANTITY OF AIR HANDLING UNITS GREATER THAN 2000 CFM. PROVIDE A DUCT SMOKE DETECTOR IN THE RETURN AIR DUCT OF EACH UNIT. EACH AIR HANDLER DUCT SMOKE DETECTOR SHALL BE SEPARATELY ANNUNCIATED BY THE FIRE ALARM PANEL AND THE ANNUNCIATOR. PROVIDE REMOTE LED INDICATOR AT CEILING BELOW EACH DETECTOR.
3. FIELD VERIFY LOCATION AND QUANTITY OF ELECTRICAL PANELS. PROVIDE A SMOKE DETECTOR IN EACH OF THESE ROOMS.
4. PROVIDE SMOKE DETECTORS IN CORRIDOR A MAXIMUM 15' FROM EACH END AND A MAXIMUM OF 30' ON CENTER.
5. PROVIDE STROBES IN ALL TOILETS.
6. PROVIDE HORN/STROBES AS REQUIRED BY NFPA 72. SPACING AND SOUND LEVEL SHALL BE SUCH THAT THE AUDIBLE ALARM CAN BE EFFECTIVELY HEARD ABOVE THE AMBIENT NOISE LEVEL OBTAINED UNDER NORMAL OCCUPIED CONDITIONS.
7. PROVIDE STROBES IN ALL PUBLIC SPACES EXCEPT COMMON AREAS AS DEFINED IN THE AMERICAN WITH DISABILITIES ACT. SPACING SHALL BE PER NFPA 72.

GENERAL ELECTRICAL NOTES

1. COORDINATE LOCATIONS OF CEILING-MOUNTED LIGHTING FIXTURES, SPEAKERS AND OTHER ITEMS WITH THE CEILING PATTERN AND MECHANICAL EQUIPMENT.
2. CENTER WALL-MOUNTED LIGHTING FIXTURES DIRECTLY OVER ANY RELATED LAVATORY, MIRROR OR OTHER EQUIPMENT.
3. LOCATE FLOOR SERVICE FITTINGS, FLOOR BOXES AND FLOOR CONDUIT TERMINATIONS APPROXIMATELY AS INDICATED, EXACTLY AS NECESSARY OR AS DIRECTED TO COORDINATE WITH THE ASSOCIATED FURNISHINGS OR EQUIPMENT.
4. LOCATE DUPLEX RECEPTACLES DESIGNATED "EWC" TO BE CONCEALED BY THE ASSOCIATED WATER COOLER.
5. LOCATE SNAP SWITCHES APPROXIMATELY 4 TO 6 INCHES FROM THE LATCH SIDE OF THE RELATED DOOR FRAME WHERE POSSIBLE, EXCEPT AS NOTED OTHERWISE.
6. LOCATE SNAP SWITCHES DIRECTLY UNDER THERMOSTATS WHERE THEY ARE SHOWN IN CLOSE PROXIMITY (SEE MECHANICAL DRAWINGS).
7. LOCATE WALL BOXES APPROXIMATELY AS INDICATED, EXACTLY AS DIRECTED OR AS NECESSARY TO ACHIEVE SYMMETRY AND COORDINATED WITH THE BUILDING, FINISHES AND EQUIPMENT.
8. LOCATE ALL BOXES TO BE ACCESSIBLE.MOUNT FLUSH BOXES WITH THEIR FRONT EDGES EVEN WITH THE FINISHED SURFACE OF COMBUSTIBLE MATERIALS, WITHIN 1/4 INCH OF NON-COMBUSTIBLE MATERIALS.
9. MOUNT SINGLE-GANG BOXES WITH THE LONGER DIMENSION VERTICAL EXCEPT AS NOTED OTHERWISE. MOUNT ALL BOXES AND PLATES PLUM.
10. DO NOT INSTALL BOXES BACK TO BACK ON BOTH SIDES OF A PARTITION. OFFSET BOXES A MINIMUM OF 6 INCHES EXCEPT AS NOTED OTHERWISE.
11. LOCATE ALL RACEWAYS TO AVOID INTERFERENCE WITH DUCTS, PIPES, MECHANICAL EQUIPMENT, WITH THE REMOVAL OF CEILING TILE, OR WITH ACCESS TO EQUIPMENT THAT REQUIRES PERIODIC ADJUSTMENT OR MAINTENANCE.
12. DO NOT SUPPORT RACEWAYS OR EQUIPMENT FROM PIPES, DUCTS, OR A CEILING SUSPENSION SYSTEM.
13. BRANCH CIRCUIT AND FEEDERS ARE DESIGNATED BY A NUMBER AND LETTER.
14. INSTALL FEEDER RACEWAYS WITH NO MORE THAN 3 CURRENT-CARRING CONDUCTORS PLUS A NEUTRAL CONDUCTOR, PLUS A GROUND CONDUCTOR.
15. INDICATED BRANCH CIRCUIT CONDUCTOR SIZES ARE BASED ON NO MORE THAN 3 CURRENT-CARRYING CONDUCTORS AND A NON-CURRENT-CARRYING NEUTRAL CONDUCTOR IN EACH RACEWAY. WHERE THE NUMBER OF CONDUCTORS EXCEEDS THIS AMOUNT, ADJUST THE CONDUCTOR SIZES IF AND AS NECESSARY TO ACCOUNT FOR DERATING THEIR AMPACITY IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
16. FROM EACH FLUSH MOUNTED PANELBOARD EXTEND A MINIMUM OF THREE EMPTY 3/4" CONDUITS TO ABOVE AN ACCESSIBLE CEILING AND CAP.
17. PROVIDE AN ADJACENT DISCONNECT SWITCH FOR EACH ELECTRIC UNIT HEATER.
18. IN MECHANICAL ROOMS ADJUST LIGHTING FIXTURE LOCATIONS AS NECESSARY TO COORDINATE WITH EQUIPMENT AND TO PROVIDE OPTIMUM ILLUMINATION.
19. LOCATE TV AND DATA OUTLETS APPROXIMATELY AS SHOWN ON DRAWINGS. COORDINATE EXACT LOCATIONS WITH ARCHITECT.
20. WHERE EMERGENCY LIGHTING FIXTURES ARE CONTROLLED BY ONE OR MORE WALL SWITCHES, PROVIDE AN UNSWITCHED CIRCUIT CONDUCTOR FOR OPERATION OF THE EMERGENCY CONTROLS.
21. PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH DIMMED LIGHTING CIRCUIT.
22. COORDINATE OUTLET LOCATIONS AND CIRCUIT RATINGS WITH THE EQUIPMENT SHOWN ON THE MECHANICAL AND PLUMBING DRAWINGS AND WITH ALL EQUIPMENT AND FURNISHINGS SHOWN ON THE ARCHITECTURAL DRAWINGS.
23. EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH SPECIFICATIONS AND AS REQUIRED BY THE NATIONAL ELECTRIC CODE.
24. ALL WORK SHALL COMPLY WITH NFPA 70.
25. ELECTRICAL BRANCH CIRCUITS SHALL NOT SHARE A COMMON NEUTRAL.

JASON E HARPER
REGISTERED
017278
STATE OF
PROFESSIONAL ENGINEER
03.09.2026

BID DOCUMENTS
03.09.2026

ATC RENOVATION
NEW RIVER COMMUNITY & TECHNICAL COLLEGE
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LEGEND AND NOTES

OMNI ARCHITECTS

MEP

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Project No: 2024008.001 **Drawn by:** Author

ELECTRIC HEATER SCHEDULE

MARK	MANUFACTURER	MODEL NO.	WEIGHT (LBS.)	HEATER KW	CFM	VOLTAGE	PHASE	FLA	MCA	MOCP	NOTES
EWH-1	QMARK	AWH	25	1.5	100 CFM	240 V	1	6.3 A	7.8 A	20 A	2

NOTES:
1. RECESSED CEILING HEATER WITH BUILT-IN TAMPERPROOF THERMOSTAT, THERMAL OVERLOAD, FAN DELAY SWITCH, POWER DISCONNECT.
2. SURFACE MOUNT WALL HEATER WITH BUILT-IN TAMPERPROOF THERMOSTAT CONTROL, THERMAL OVERLOAD, FAN DELAY SWITCH, POWER DISCONNECT SWITCH.
3. UNIT HEATER WITH BUILT-IN THERMOSTAT CONTROL; THERMAL OVERLOAD; FAN DELAY SWITCH; POWER DISCONNECT SWITCH; UNIVERSAL MOUNTIN BRACKET.
4. LINE VOLTAGE CONTROL RELAY. COORDINATE EXACT REQUIREMENTS WITH CONTROL MANUFACTURER.

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	CIRCUIT SETTER (GPM INDICATED ON PLANS)
	ROUND FLEXIBLE DUCT (ONLY @ DIFFUSER CONNECTION)
FD	FIRE DAMPER
	MANUAL BALANCING DAMPER
	SUPPLY DUCT RISER
	RETURN OR OUTSIDE AIR DUCT RISER
	EXHAUST AIR DUCT RISER
24"X10"	DUCT SIZE INSIDE DIMENSIONS - 24"W x 10"D
10"ϕ	DUCT SIZE - 10" DIAMETER
T	THERMOSTAT
H	HUMIDISTAT
	CONNECT TO EXISTING
WG	WIRE GUARD
(EX)	EXISTING
S D	DUCT MOUNT SMOKE DETECTOR
LS	LOOP SUPPLY PIPING
LR	LOOP RETURN PIPING

(2) 1 — 10"x18" NECK SIZE; 400 DESIGN CUBIC FEET PER MINUTE OF AIR; DIFFUSER SYMBOL-SEE SCHEDULE; QUANTITY FOR ROOM OR SPACE

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISH FLOOR
BTU	BRITISH THERMAL UNIT
DN	DOWN
GC	GENERAL CONTRACTOR
GPM	GALLON PER MINUTE
NTS	NOT TO SCALE
PC	PLUMBING CONTRACTOR
(TYP)	TYPICAL
VTR	VENT THRU ROOF
W/	WITH
WG	WIRE GUARD
WP	WEATHER PROOF

GENERAL MECHANICAL NOTES

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE HVAC SYSTEM AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
2. CERTAIN ITEMS SUCH AS RISES AND DROPS IN DUCTWORK, ACCESS DOORS, VOLUME DAMPERS, ETC., ARE INDICATED FOR CLARITY IN CERTAIN AREAS. THIS DOES NOT RELIEVE THE CONTRACTOR OF PROVIDED THESE ITEMS NOT SHOWN IN OTHER AREAS AS REQUIRED FOR A COMPLETE INSTALLATION.
3. REFER TO CLASSROOM CONTROL PANEL DETAIL FOR MOUNTING HEIGHT OF C02 SENSOR, HUMIDITY SENSOR, AND TEMPERATURE SENSOR.
4. ALL DUCTWORK SHALL CLEAR DOORS AND WINDOWS.
5. ALL DUCTWORK DIMENSIONS, AS SHOWN ON DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS. DUCT SIZE SHALL BE INCREASED IN SIZE TO COMPENSATE FOR INTERNAL LININGS.
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7. LOCATE ALL MECHANICAL EQUIPMENT FOR UNOBSTRUCTED ACCESS TO UNIT ACCESS PANELS, CONTROLS, AND VALVING.
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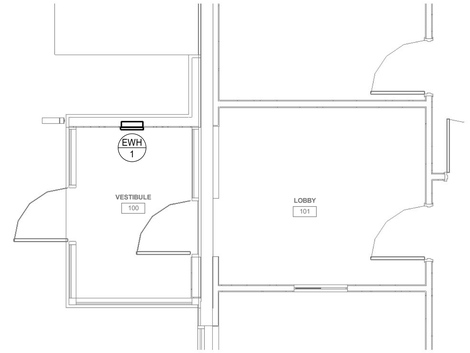
9. RUNS OF FLEXIBLE DUCTWORK SHALL NOT EXCEED 5 FEET.
10. ALL DUCTWORK SHALL BE COORDINATED WITH OTHER TRADES. OFFSETS AND TRANSITIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
11. PROVIDE ACCESS DOORS IN DUCTWORK WHERE REQUIRED.
12. ALL DUCTS SHALL BE GROUNDED ACROSS FLEXIBLE CONNECTIONS WITH FLEXIBLE COPPER GROUNDING STRAPS.
13. SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MOUNTING THE SMOKE DETECTOR IN THE DUCTWORK.
14. CONTROL RELAYS SHALL BE WIRED BY THE ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND MOUNTING THE RELAY IN THE EQUIPMENT.
15. TURNING VANES SHALL BE INSTALLED IN ALL RECTANGULAR DUCT ELBOWS THAT EXCEED 45° CHANGE IN DIRECTION.
16. INSTALL 1" DUCTLINER IN FIRST 15' OF ALL RETURN AIR DUCTS.



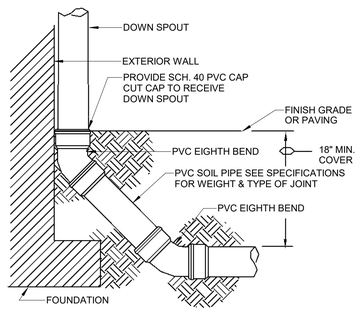
1 PARTIAL HVAC PLAN
SCALE: 1/4" = 1'-0"

PLUMBING SYMBOL LEGEND

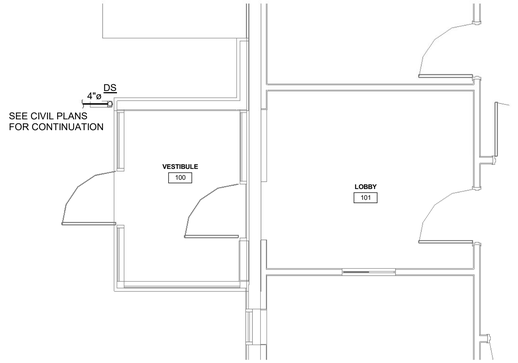
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	TURN UP OR FROM BELOW		COLD WATER PIPE (CW)
	TURN DOWN		HOT WATER PIPE (HW)
VTR	VENT THRU ROOF	140	(HW) PIPE @140°F
	BALL VALVE		HOT WATER RECIRCULATING (HWC)
	CHECK VALVE	ST	BELOW GRADE STORM DRAIN
	UNION	SAN	SANITARY SEWER
	GAS VALVE	AW	ACID WASTE PIPING
	GAS VALVE IN VERTICAL	AV	ACID VENT PIPING
A	SHOCK ABSORBER, LETTER DESIGNATES SIZE		VENT PIPING
	PRESSURE REGULATING VALVE	G	GAS PIPING
FCO	FLOOR CLEANOUT	WH	WALL HYDRANT
SCO	SURFACE CLEANOUT	RD	ROOF DRAIN
FD	FLOOR DRAIN	FM	FORCE MAIN PIPING
	FLOOR SINK	FP	FIRE PROTECTION PIPING
P-1	FIXTURE DESIGNATION	CD	CONDENSATE DRAIN PIPING
RWC	ABOVE GRADE RAINWATER CONDUCTOR	DSN	DOWNSPOUT NOZZLE
	STRAINER	SRD	SECONDARY ROOF DRAIN
		1	KITCHEN EQUIPMENT NUMBER

GENERAL PLUMBING NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF INTERNATIONAL PLUMBING CODE & LOCAL AUTHORITIES HAVING JURISDICTION.
2. ALL PIPING IN EXTERIOR WALLS TO BE RUN ON BUILDING SIDE OF INSULATION.
3. PIPING LAYOUT IS SCHEMATIC, EXACT LOCATIONS OF PIPES TO BE COORDINATED WITH BUILDING STRUCTURE AND WORK OF OTHER TRADES.
4. MINIMUM PIPE SLOPE ON THE DRAINAGE AND VENT SYSTEM WITHIN THE BUILDING.
   A. 2" PIPING SHALL SLOPE AT LEAST 1/4" PER FOOT.
   B. ALL PIPE 3" AND LARGER SHALL SLOPE AT LEAST 1/8" PER FOOT.
5. PIPING SHALL NOT BE ROUTED ABOVE ELECTRIC PANELS.
6. COORDINATE PIPING IN TOILET AREAS WITH RECESSED TOILET ACCESSORIES. OFFSET PIPING AS REQUIRED TO ALLOW RECESS OF THESE ITEMS. SEE ENLARGED TOILET PLANS FOR LOCATIONS.
7. NOT ALL PLUMBING FIXTURES, ACCESSORIES AND PIPE SIZES ARE NECESSARILY SHOWN ON THIS DRAWING. REFER TO ALL OTHER SECTIONS, DETAILS, RISERS, PLANS AND SPECIFICATIONS FOR THIS PROJECT FOR COMPLETE SYSTEM REQUIREMENTS.
8. ALL PENETRATIONS THROUGH FIRE/SMOKE RATED CONSTRUCTION WILL BE SEALED WITH A FIRE RATED CAULK EQUAL TO OR EXCEEDING THE CONSTRUCTION FIRE RATING.
9. COORDINATE FINAL LOCATION OF PLUMBING FIXTURES, PIPING, ACCESSORIES, ETC. WITH GENERAL CONTRACTOR BEFORE FABRICATION OR INSTALLATION.
10. COORDINATE ALL PENETRATIONS OF FLOORS, ROOF, WALLS, ETC. WITH GENERAL CONTRACTOR.



DOWNSPOUT DETAIL
NTS



2 PARTIAL DRAINAGE AND VENT PLAN
SCALE: 1/4" = 1'-0"

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HVAC AND PLUMBING PLANS

OMNI ARCHITECTS

MP-1.1

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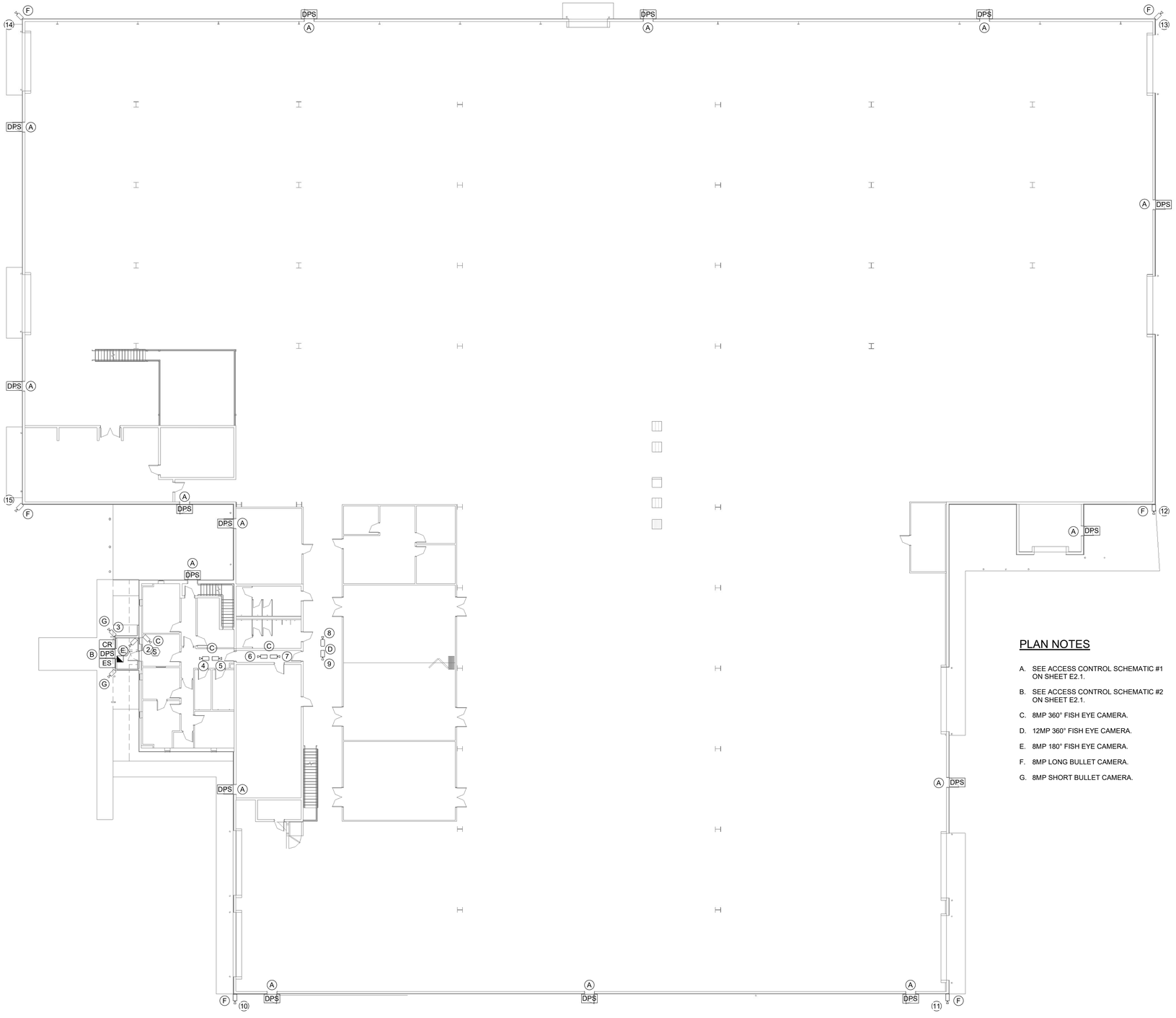


1 FIRST FLOOR SYSTEMS PLAN
SCALE: 1/16" = 1'-0"

PLAN NOTES

A. SEE ACCESS CONTROL SCHEMATIC #1 ON SHEET E2.1.

B. SEE ACCESS CONTROL SCHEMATIC #2 ON SHEET E2.1.

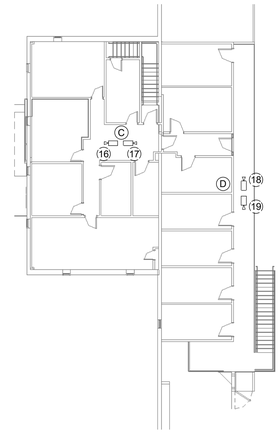
C. 8MP 360° FISH EYE CAMERA.

D. 12MP 360° FISH EYE CAMERA.

E. 8MP 180° FISH EYE CAMERA.

F. 8MP LONG BULLET CAMERA.

G. 8MP SHORT BULLET CAMERA.



2 SECOND FLOOR SYSTEMS PLAN
SCALE: 1/16" = 1'-0"

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SYSTEMS PLANS

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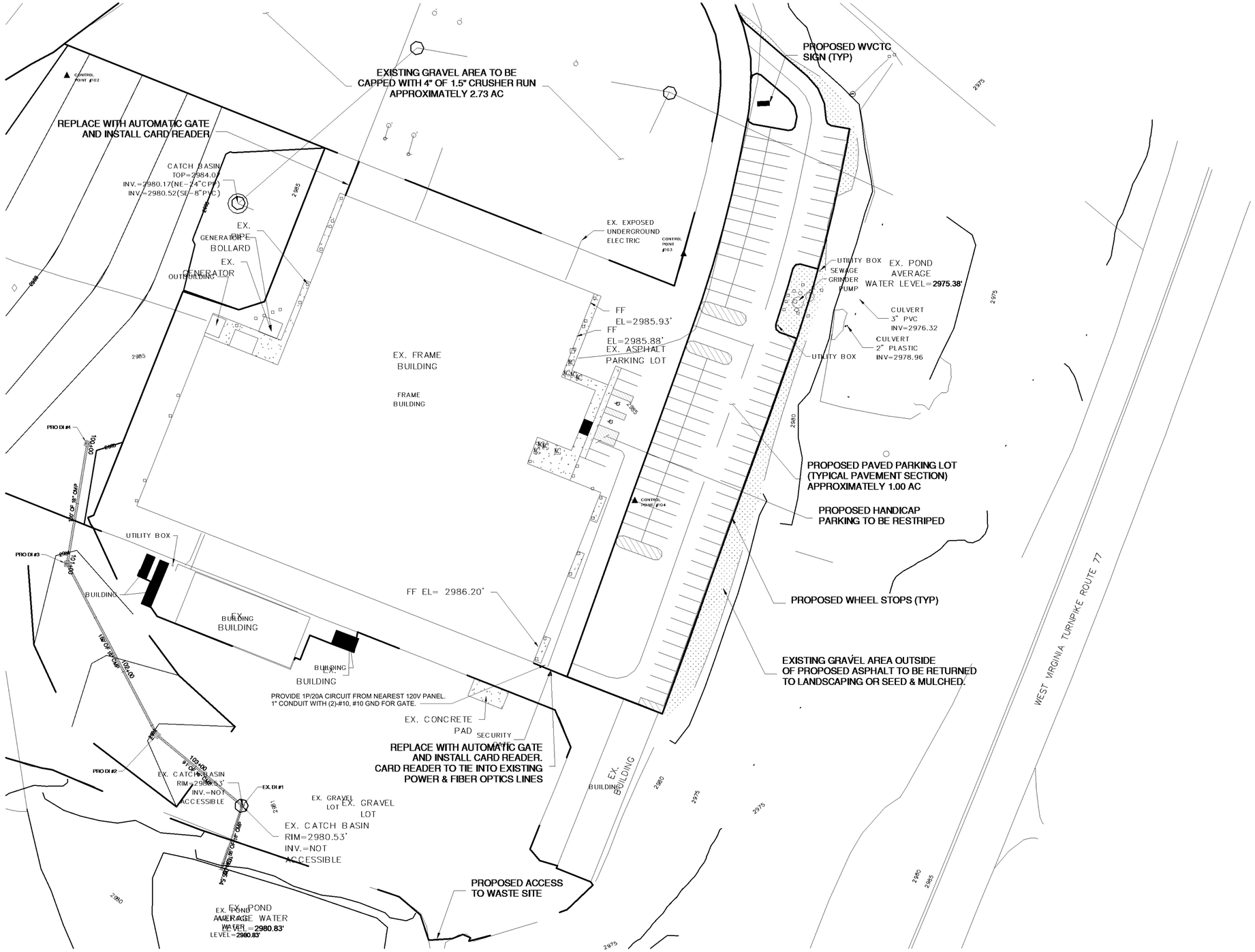

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SITE PLAN

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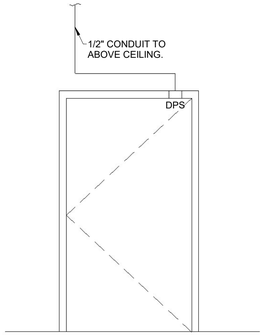
FIRE ALARM SYSTEM NOTES

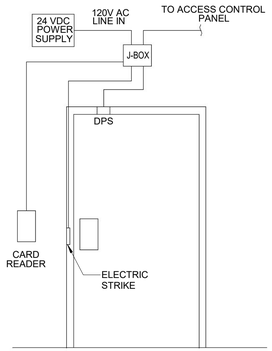
1. ALL EXTERIOR DOORS SHALL HAVE A PULL STATION MOUNTED ADJACENT TO THE DOOR. SPACING OF PULL STATIONS SHALL NOT EXCEED 200' ALONG PATH OF EGRESS.
2. FIELD VERIFY LOCATION AND QUANTITY OF AIR HANDLING UNITS GREATER THAN 2000 CFM. PROVIDE A DUCT SMOKE DETECTOR IN THE RETURN AIR DUCT OF EACH UNIT. EACH AIR HANDLER DUCT SMOKE DETECTOR SHALL BE SEPARATELY ANNUNCIATED BY THE FIRE ALARM PANEL AND THE ANNUNCIATOR. PROVIDE REMOTE LED INDICATOR AT CEILING BELOW EACH DETECTOR.
3. FIELD VERIFY LOCATION AND QUANTITY OF ELECTRICAL PANELS. PROVIDE A SMOKE DETECTOR IN EACH OF THESE ROOMS.
4. PROVIDE SMOKE DETECTORS IN CORRIDOR A MAXIMUM 15' FROM EACH END AND A MAXIMUM OF 30' ON CENTER.
5. PROVIDE RATE OF RISE HEAT DETECTORS IN ALL TOILETS.
6. PROVIDE STROBES IN ALL TOILETS.
7. PROVIDE RATE OF RISE HEAT DETECTORS IN ALL UTILITY ROOMS, STORAGE ROOMS, JANITOR CLOSETS, AND LOCKER ROOMS. SPACING SHALL BE PER NFPA 72.
8. PROVIDE FIXED TEMPERATURE HEAT DETECTORS IN ATTICS, COCKLOFTS, FURNACE ROOMS, AND KITCHENS. SPACING SHALL BE PER NFPA 72.
9. PROVIDE HORN/STROBES AS REQUIRED BY NFPA 72. SPACING AND SOUND LEVEL SHALL BE SUCH THAT THE AUDIBLE ALARM CAN BE EFFECTIVELY HEARD ABOVE THE AMBIENT NOISE LEVEL OBTAINED UNDER NORMAL OCCUPIED CONDITIONS.
10. PROVIDE STROBES IN ALL OCCUPIED SPACES EXCEPT COMMON AREAS AS DEFINED IN THE AMERICAN WITH DISABILITIES ACT. SPACING SHALL BE PER NFPA 72.

GENERAL FIRE ALARM NOTES

1. PROVIDE ALL MATERIAL AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL A COMPLETE AND OPERABLE FIRE ALARM SYSTEM DEVICES AS INDICATED ON THE DRAWINGS ARE SCHEMATIC IN NATURE. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL WORK AR REQUIRED BY LOCAL AHJ AT NO ADDITIONAL COST TO THE OWNER.
2. IT SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY TO PROVIDE A FIRE ALARM SYSTEM IN FULL COMPLIANCE WITH THE LATEST EDITION OF (NFPA 72, WV STATE FIRE CODE, AND ADA).
3. THIS BUILDING WILL BE PARTIALLY SPRINKLED PER NFPA 13.
4. SUPPLY A 120 VOLT CONNECTION AS REQUIRED AT ALL SYSTEMS EQUIPMENT.
5. DEVICES SHOWN ARE APPROXIMATE LOCATIONS. FIELD VERIFY ACTUAL CONDITIONS.
6. DO NOT SUPPORT RACEWAYS FROM PIPES DUCTS OR CEILING SUSPENSION SYSTEM.
7. EXPOSED RACEWAY AND BLANK COVERS SHALL BE PAINTEDTO MATCH EXISTING SURFACES.
8. SURFACES DAMAGED BY THIS CONTRACTOR SHALL BE REPAIRED.
9. WHERE SURFACES ARE REQUIRED TO BE PATCHED OR REPAIRED, SURFACE SHALL BE PAINTED TO MATCH ADJACENT SURFACE.
10. ALL JUNCTION BOX COVERS IN FIRE ALARM RACEWAY SHALL BE PAINTED RED.
11. MOUNTING HEIGHT OF FIRE ALARM STROBE SHALL BE 80" AFF.
12. SYSTEM SHALL INTERFACE WITH HOOD SUPPRESSION SYSTEM PER NFPA.
13. SYSTEM SHALL INTERFACE WITH SHUNT TRIP BREAKERS OR GAS VALVE FOR ALL EQUIPMENT LOCATED UNDER THE KITCHEN HOOD.



ACCESS CONTROL SINGLE DOOR (#1)



ACCESS CONTROL SCHEMATIC (#2)

NOTE:

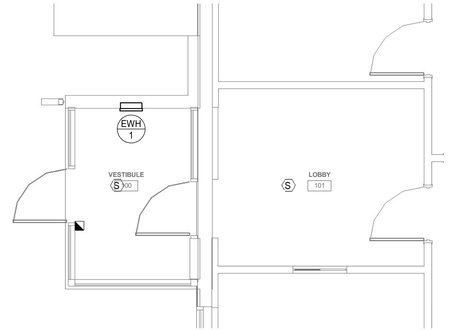
CONDUIT SHALL BE ROUTED CONCEALED WHERE EVER POSSIBLE. IF CONDUIT MUST BE EXPOSED, MOUNT FLUSH TO WALL AND PAINT TO MATCH ADJACENT SURFACE.

SPRINKLER NOTE:

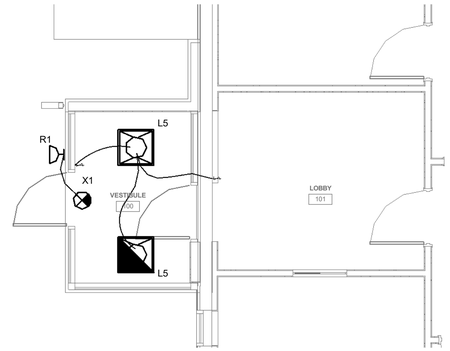
EXTEND SPRINKLER COVERAGE FROM EXISTING SCHOOL INTO NEW ADDITION. PROVIDE HYDRAULIC CALCULATIONS AND SHOP DRAWINGS FOR REVIEW.

NOTE:
1. POWER SUPPLIES ARE SPECIFIED BY DIVISION 8 AND SUPPLIED BY GC IN THE LOCATIONS INDICATED. ACCESS CONTROL CONTRACTOR TO COORDINATE WITH THE DOOR HARDWARE SPECIFICATIONS.

2. CONDUIT SHALL BE 1/2" FOR LOW VOLTAGE ACCESS CONTROL WIRING UNLESS LARGER SIZE REQUIRED FOR MANUFACTURER SPECIFIC WIRING.



1 PARTIAL POWER PLAN
SCALE: 1/4" = 1'-0"



2 PARTIAL LIGHTING PLAN
SCALE: 1/4" = 1'-0"

GENERAL ELECTRICAL NOTES

1. COORDINATE LOCATIONS OF CEILING-MOUNTED LIGHTING FIXTURES, SPEAKERS AND OTHER ITEMS WITH THE CEILING PATTERN AND MECHANICAL EQUIPMENT.
2. CENTER WALL-MOUNTED LIGHTING FIXTURES DIRECTLY OVER ANY RELATED LAVATORY, MIRROR OR OTHER EQUIPMENT.
3. LOCATE FLOOR SERVICE FITTINGS, FLOOR BOXES AND FLOOR CONDUIT TERMINATIONS APPROXIMATELY AS INDICATED, EXACTLY AS NECESSARY OR AS DIRECTED TO COORDINATE WITH THE ASSOCIATED FURNISHINGS OR EQUIPMENT.
4. LOCATE DUPLEX RECEPTACLES DESIGNATED "EWC" TO BE CONCEALED BY THE ASSOCIATED WATER COOLER.
5. LOCATE SNAP SWITCHES APPROXIMATELY 4 TO 6 INCHES FROM THE LATCH SIDE OF THE RELATED DOOR FRAME WHERE POSSIBLE, EXCEPT AS NOTED OTHERWISE.
6. LOCATE SNAP SWITCHES DIRECTLY UNDER THERMOSTATS WHERE THEY ARE SHOWN IN CLOSE PROXIMITY (SEE MECHANICAL DRAWINGS).
7. LOCATE WALL BOXES APPROXIMATELY AS INDICATED, EXACTLY AS DIRECTED OR AS NECESSARY TO ACHIEVE SYMMETRY AND COORDINATED WITH THE BUILDING, FINISHES AND EQUIPMENT.
8. LOCATE ALL BOXES TO BE ACCESSIBLE.MOUNT FLUSH BOXES WITH THEIR FRONT EDGES EVEN WITH THE FINISHED SURFACE OF COMBUSTIBLE MATERIALS, WITHIN 1/4 INCH OF NON-COMBUSTIBLE MATERIALS.
9. MOUNT SINGLE-GANG BOXES WITH THE LONGER DIMENSION VERTICAL EXCEPT AS NOTED OTHERWISE. MOUNT ALL BOXES AND PLATES PLUM.
10. DO NOT INSTALL BOXES BACK TO BACK ON BOTH SIDES OF A PARTITION. OFFSET BOXES A MINIMUM OF 6 INCHES EXCEPT AS NOTED OTHERWISE.
11. LOCATE ALL RACEWAYS TO AVOID INTERFERENCE WITH DUCTS, PIPES, MECHANICAL EQUIPMENT, WITH THE REMOVAL OF CEILING TILE, OR WITH ACCESS TO EQUIPMENT THAT REQUIRES PERIODIC ADJUSTMENT OR MAINTENANCE.
12. DO NOT SUPPORT RACEWAYS OR EQUIPMENT FROM PIPES, DUCTS, OR A CEILING SUSPENSION SYSTEM.
13. BRANCH CIRCUIT AND FEEDERS ARE DESIGNATED BY A NUMBER AND LETTER.
14. INSTALL FEEDER RACEWAYS WITH NO MORE THAN 3 CURRENT-CARRING CONDUCTORS PLUS A NEUTRAL CONDUCTOR, PLUS A GROUND CONDUCTOR.
15. INDICATED BRANCH CIRCUIT CONDUCTOR SIZES ARE BASED ON NO MORE THAN 3 CURRENT-CARRYING CONDUCTORS AND A NON-CURRENT-CARRYING NEUTRAL CONDUCTOR IN EACH RACEWAY. WHERE THE NUMBER OF CONDUCTORS EXCEEDS THIS AMOUNT, ADJUST THE CONDUCTOR SIZES IF AND AS NECESSARY TO ACCOUNT FOR DERATING THEIR AMPACITY IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
16. FROM EACH FLUSH MOUNTED PANELBOARD EXTEND A MINIMUM OF THREE EMPTY 3/4" CONDUITS TO ABOVE AN ACCESSIBLE CEILING AND CAP.
17. PROVIDE AN ADJACENT DISCONNECT SWITCH FOR EACH ELECTRIC UNIT HEATER.
18. IN MECHANICAL ROOMS ADJUST LIGHTING FIXTURE LOCATIONS AS NECESSARY TO COORDINATE WITH EQUIPMENT AND TO PROVIDE OPTIMUM ILLUMINATION.
19. LOCATE TV AND DATA OUTLETS APPROXIMATELY AS SHOWN ON DRAWINGS. COORDINATE EXACT LOCATIONS WITH ARCHITECT.
20. WHERE EMERGENCY LIGHTING FIXTURES ARE CONTROLLED BY ONE OR MORE WALL SWITCHES, PROVIDE AN UNSWITCHED CIRCUIT CONDUCTOR FOR OPERATION OF THE EMERGENCY CONTROLS.
21. PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH DIMMED LIGHTING CIRCUIT.
22. COORDINATE OUTLET LOCATIONS AND CIRCUIT RATINGS WITH THE EQUIPMENT SHOWN ON THE MECHANICAL AND PLUMBING DRAWINGS AND WITH ALL EQUIPMENT AND FURNISHINGS SHOWN ON THE ARCHITECTURAL DRAWINGS.
23. EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH SPECIFICATIONS AND AS REQUIRED BY THE NATIONAL ELECTRIC CODE.
24. ALL WORK SHALL COMPLY WITH NFPA 70.
25. ELECTRICAL BRANCH CIRCUITS SHALL NOT SHARE A COMMON NEUTRAL.

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	MT HEIGHT UNO
(A)	PLAN NOTE	
———	WIRING IN CONDUIT CONCEALED IN CEILING, OR IN WALL. CONDUIT AND WIRE AS REQUIRED BY CODE UNLESS OTHERWISE NOTED.	
———	CONDUIT STUBBED OUT	
HA-1	BRANCH CIRCUIT, "HA" DESIGNATES PANEL "1" DESIGNATES CIRCUIT NUMBER	
	SINGLE RECEPTACLE, NEMA CONFIGURATION TO MATCH EQUIPMENT	
	GROUNDING TYPE DUPLEX RECEPTACLE	16" AFF
GFI	GROUND FAULT INTERRUPTER TYPE DUPLEX RECEPTACLE	16" AFF
GFI	GROUND FAULT INTERRUPTER TYPE DUPLEX RECEPTACLE	48" AFF
	DOUBLE DUPLEX RECEPTACLE MOUNTED IN TWO-GANG BOX	16" AFF
C	CLOCK OUTLET, SINGLE-GANG BOX W/ 3/4" CONDUIT	80" AFF
JB	JUNCTION BOX	
	RECESSED LED LIGHT FIXTURE	
	CEILING MOUNTED LED LIGHT FIXTURE	
	SURFACE LED STRIP LIGHT FIXTURE	
	EMERGENCY LIGHT FIXTURE	
EM	EMERGENCY LIGHT FIXTURE	
	PENDANT MOUNT LIGHT FIXTURE	
	WALL MOUNTED LIGHT FIXTURE	
	EXIT SIGN WALL MOUNTED WITH REMOTE HEAD.	
SS	TWO SINGLE POLE TOGGLE SWITCHES FOR DUAL LIGHTING CONTROL.	48" AFF
S	SINGLE POLE TOGGLE SWITCH.	48" AFF
S_3	THREE-WAY TOGGLE SWITCH	48" AFF
S_4	FOUR-WAY TOGGLE SWITCH	48" AFF
S_K	KEY OPERATED SWITCH	48" AFF
2 ▼	DATA OUTLET, SINGLE-GANG BOX W/ 1" CONDUIT TO ABOVE ACCESSIBLE CEILING. NUMBER DENOTES QUANTITY OF R-45 JACKS, PROVIDE COVER PLATE, CAT 6 CABLE.	
FS	SPRINKLER WATER FLOW SWITCH, FURNISHED AND INSTALLED BY SPRINKLER CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR	
MS	MASTER STATION FOR A.I. PHONE	
AI	A.I. PHONE	
M	MIRCROPHONE OUTLET	
OS	OCCUPANCY SENSOR	
IER	INTERCOM EQUIPMENT RACK	
ACP	ACCESS CONTROL PANEL	
	DIRECT CONNECTION	
C	CLOSED CIRCUIT TELEVISION CAMERA	
	PANELBOARD, SEE PANEL SCHEDULES ON DRAWINGS FOR RATING AND SIZE	
	MOTOR CONNECTION	
	EQUIPMENT OUTLET, 2 OR 3 POLE	

SYMBOL	DESCRIPTION	MT HEIGHT UNO
TS	SPRINKLER VALVE TAMPER SWITCH, FURNISHED AND INSTALLED BY SPRINKLER CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR	
ANN	FIRE ALARM SYSTEM REMOTE ANNUNCIATOR PANEL	
FACP	FIRE ALARM CONTROL PANEL	
	COMBINATION AUDIBLE/VISUAL (STROBE) FIRE ALARM SIGNAL.	80" AFF
	FIRE ALARM STROBE	80" AFF
S_D	DUCT MOUNTED SMOKE DETECTOR	
S	SMOKE DETECTOR.	
H	HEAT DETECTOR.	
	FIRE ALARM MANUAL PULL STATION	48" AFF
T	DRY-TYPE TRANSFORMER	
	FUSED SAFETY DISCONNECT SWITCH, HEAVY DUTY, "NFSS" DENOTES NON-FUSED SAFETY SWITCH	
S	CEILING SPEAKER, FLUSH MOUNTED IN CEILING.	
S_{SS}	SOUND SYSTYEM CEILING SPEAKER, FLUSH MOUNTED IN CEILING.	
S	CEILING MOUNTED SPEAKER 1'x2'	
I	INTERCOM HANDSET, SINGLE-GANG BOX W/ 1" CONDUIT MOUNTED AT 44" A.F.F.	48" AFF
CR	CARD READER	48" AFF
DH	DOOR HOLD OPEN	
DR	DATA RACK	
CCTV	CLOSED CIRCUIT TV PANEL	
CATV	CABLE TV PANEL	
S	GYM SOUND SYSTEM SPEAKER	
R	FIRE ALARM RELAY	
P	PAGE/HORN	
SS	SOUND SYSTEM CABINET	
	NOTIFIER FOR DOORBELL SYSTEM	
IC	INTERCOM CONSOLE	
	PHONE OR DATA OUTLET, SINGLE-GANG BOX W/ 1" CONDUIT TO ABOVE ACCESSIBLE CEILING.CABLE AND COVERS BY OTHERS.	
PB	EMERGENCY LOCK DOWN PANIC BUTTON	
USB	USB OUTLET	
VD	VIDEO OUTLET	

WIRE AND CONDUIT SIZE SCHEDULE

MOCP (AMP)	CONDUCTOR SIZE	GROUND SIZE	CONDUIT SIZE WITH GROUND		
			1-POLE	2-POLE	3-POLE
20	#12	#12	3/4"	3/4"	3/4"
30	#10	#10	3/4"	3/4"	3/4"
40	#8	#10	3/4"	3/4"	3/4"
50	#8	#10	3/4"	3/4"	3/4"
60	#6	#8	3/4"	3/4"	3/4"
70	#4	#8	1"	1"	1"
80	#4	#8	-	1"	1"
90	#3	#8	-	1 1/4"	1 1/4"
100	#2	#8	-	1 1/4"	1 1/4"
110	#2	#6	-	1 1/4"	1 1/4"
125	#1	#6	-	1 1/4"	1 1/4"
150	#1/0	#6	-	1 1/2"	1 1/2"
175	#2/0	#6	-	1 1/2"	2"
200	#3/0	#6	-	1 1/2"	2"
225	#4/0	#4	-	-	2-1/2"
250	250MCM	#3	-	-	2 1/2"
300	350MCM	#3	-	-	3"
350	500MCM	#3	-	-	4"
400	500MCM	#3	-	-	4"

INCREASE CONDUCTOR SIZE AS REQUIRED FOR MAXIMUM VOLTAGE DROP OF 2% FOR FEEDERS AND 3% FOR BRANCH CIRCUITS.

ALL CIRCUITS SHALL COMPLY WITH NEC AND OTHER APPLICABLE CODES.

CONDUCTOR SIZE BASED ON 75 DEGREE C LUGS.

LIGHTING FIXTURE SCHEDULE

MARK	LAMP	MOUNTING	MANUFACTURER	MODEL	DESCRIPTION	NOTES
L5	LED	RECESSED	LITHONIA COOPER COLUMBIA	2X2CLXALO7	2X2 FLAT PANEL LED WHITE FRAME, SATIN WHITE LENS ELECTRONIC DRIVER	120V
R1	LED	Surface	LITHONIA COOPER COLUMBIA	ELA NX	EMERGENCY EGRESS WALL LIGHT	6V
X1	LED	UNIV	LITHONIA COOPER DAY-BRITE	LHQM	EXIT SIGN WHITE BODY RED LETTERS BATTERY REMOTE CAPABLE	120V

NOTES:
1. VERIFY CEILING CONSTRUCTION TYPE WITH ARCHITECTURAL DRAWINGS TO DETERMINE WHETHER RECESSED LIGHTING FIXTURES SHALL BE FLANGE OR GRID TYPE MOUNTING.
2. DIRECTIONAL INDICATOR ON EXIT SIGNS SHALL COMPLY WITH NFPA 101 SECTION 5-10.4.1.2.
3. VERIFY VOLTAGE TO OPERATE FIXTURE WITH ELECTRICAL DRAWINGS.
4. LIGHT FIXTURES SHALL COME COMPLETE WITH NECESSARY MOUNTING HARDWARE.
5. ALL RECESSED FLUORESCENT LIGHT FIXTURES SHALL BE PAINTED AFTER FABRICATION.
6. ANY REQUEST FOR SUBSTITUTION TO THE LIGHTING FIXTURE SCHEDULE SHALL BE OF EQUAL OR HIGHER QUALITY AS DETERMINED BY THE ENGINEER. ANY PERSON REQUESTING TO SUBSTITUTE FIXTURES MUST SUBMIT IN BOUND FORM A COLLECTION OF THE MANUFACTURER'S CUT SHEETS TO BE REVIEWED BY THE ENGINEER A MINIMUM OF (TWENTY-ONE) 21 DAYS PRIOR TO BID. ACCEPTED SUBSTITUTIONS SHALL BE REFLECTED IN AN ADDENDUM.
7. SUPPLY HANGING BAR KITS WITH ALL RECESSED DOWN LIGHTS.
8. ALL OPEN RATED METAL HALIDE LIGHT FIXTURES TO HAVE OPEN RATED LAMPS AND SOCKETS.
9. EMERGENCY BATTERY PACK FOR FLUORESCENT LIGHT FIXTURES SHALL BE RATED TO SUPPLY A MINIMUM OF 600 INITIAL LUMENS.
10. WHERE LIGHT FIXTURES ARE SHOWN CONTROLLED BY TWO SWITCHES, FOR TWO LEVEL CONTROL, CONNECT THE OUTSIDE LAMPS TO ONE SWITCH AND THE INSIDE LAMP(S) TO THE OTHER SWITCH. PROVIDE FIXTURE WITH BALLASTS AS NECESSARY.

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ELECTRICAL DETAILS

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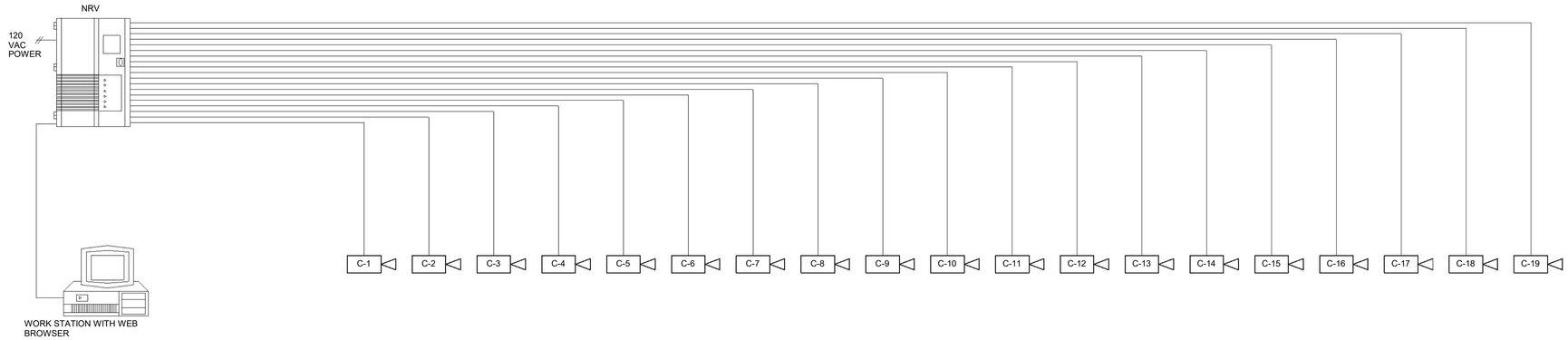

GHENT CAMERA RISER DIAGRAM

NO SCALE

NOTE:
RISER IS SCHEMATIC. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL NECESSARY EQUIPMENT AND WIRING FOR A FULLY FUNCTIONAL SYSTEM IN COMPLIANCE WITH CONTRACT DOCUMENTS. REFER TO CAMERA EQUIPMENT MANUFACTURER'S INSTALLATION GUIDE.



BID DOCUMENTS
03.09.2026

ATC RENOVATION
NEW RIVER COMMUNITY & TECHNICAL COLLEGE
527 Odd Rd.
Ghent, WV 25843

CAMERA RISER

OMNI ARCHITECTS

E-3.2

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