H59-N302-CB

HGTC AUTOMOTIVE TECHNOLOGY BLDG. 1400 EXPANSION

CONWAY, SOUTH CAROLINA





PLAN NORTH

LOCATION MAP
NOT TO SCALE

DRAWING ISSUANCE LOG

NUMBER	SHEET NAME	(A) 2025-07-28 - OWNER REVIEW	(B) YYYY-MM-DD - ISSUE A	(1) 2025-09-24 - ISSUED FOR BID
GENERAL				
G-001	COVER SHEET	X	X	X
G-002	GENERAL INFORMATION	X	X	X
LS101	LIFE SAFETY PLAN	X	X	X
CIVIL				
1	TOPOGRAPHIC SURVEY	X	X	X
C-001	CIVIL NOTES AND ABBREVIATIONS	X	X	X
C-003	FIRE PROTECTION SITE PLAN	X	X	X
C-100	EXISTING SITE & DEMOLITION PLAN	X	X	X
C-200	SITE PLAN	X	X	X
C-300	GRADING & STORM DRAINAGE PLAN	X	X	X
C-400	SITE UTILITY PLAN	X	X	X
C-620	CIVIL DETAILS - SITE	X	X	X
C-630	CIVIL DETAILS - STORM DRAINAGE	X	X	X
C-640	CIVIL DETAIL - UTILITIES	X	X	X
C-700	SWPPP PLAN	X	X	X
C-710	CIVIL DETAILS - SWPPP	X	X	X
C-711	CIVIL DETAILS - SWPPP	X	X	X
C-720	SWPPP DETAILS - NOTES AND CLOSEOUT	X	X	X
STRUCTURAL				
S1.0	GENERAL NOTES & LOAD TABLE	X	X	X
S1.1	SPECIAL INSPECTIONS	X	X	X
S1.2	NOTES	X	X	X
S2.0	FOUNDATION PLANS	X	X	X
S2.1	ROOF FRAMING PLANS	X	X	X
S2.2	ROOF FRAMING PLANS	X	X	X
S2.3	ALTERNATE FOUNDATION PLANS	X	X	X
S2.4	ALTERNATE ROOF FRAMING PLANS	X	X	X
S2.5	ALTERNATE ROOF FRAMING PLANS	X	X	X
S3.0	DETAILS	X	X	X
S3.1	SECTIONS & DETAILS	X	X	X
S4.0	ROOF DETAILS	X	X	X
S4.1	ROOF DETAILS	X	X	X
S4.2	ROOF DETAILS	X	X	X
S4.3	ROOF DETAILS	X	X	X
S4.4	ROOF DETAILS	X	X	X
S4.5	ROOF DETAILS		X	X
ARCHITECTURAL				
A-352	SECTION DETAILS			
AS101	ARCHITECTURAL SITE PLAN	X	X	X
AD101	DEMOLITION PLAN		X	X
A-001	PARTITION TYPES	X	X	X
A-101	FLOOR PLANS	X	X	X
A-111	ENLARGED PLAN DETAILS	X	X	X
A-131	REFLECTED CEILING PLANS	X	X	X
A-151	BASE BID - ROOF PLAN	X	X	X
A-201	EXTERIOR ELEVATIONS	X	X	X
A-301	BASE BID - BUILDING SECTIONS (3-BAY)		X	X
A-301A	ALTERNATE 1 - BUILDING SECTIONS (4TH BAY)		X	X
A-311	WALL SECTIONS AND DETAILS		X	X
A-312	WALL SECTIONS AND DETAILS		X	X
A-313	WALL SECTIONS AND DETAILS		X	X
A-351	SECTION DETAILS		X	X
A-400	STANDARD RESTROOM DETAILS		X	X
A-601	DOOR, WINDOW AND FINISH SCHEDULES		X	X
A-701	INTERIOR ELEVATIONS		X	X
PLUMBING				
PD-101	BASE BID - LEVEL 1 PLUMBING DEMOLITION PLAN	X	X	

DRAWING ISSUANCE LOG

NUMBER	SHEET NAME	(A) 2025-07-28 - OWNER REVIEW	(B) YYYY-MM-DD - ISSUE A	(1) 2025-09-24 - ISSUED FOR BID
P-001	PLUMBING NOTES, LEGENDS, & SCHEDULES	X	X	
P-002	PLUMBING DETAILS	X	X	
P-003	PLUMBING DETAILS	X	X	
P-101	BASE BID - LEVEL 1 DOMESTIC WATER, NATURAL GAS & COMPRESSED AIR PLAN	X	X	
P-101A	ALTERNATE 1 - LEVEL 1 DOMESTIC WATER, NATURAL GAS & COMPRESSED AIR PLAN (4TH BAY)	X	X	
P-201	BASE BID - LEVEL 1 SANITARY & VENT PLAN	X	X	
P-201A	ALTERNATE 1 - LEVEL 1 SANITARY & VENT PLAN (4TH BAY)	X	X	
P-202	BASE BID - ROOF PLUMBING PLAN	X	X	
P-202A	ALTERNATE 1 - ROOF PLUMBING PLAN (4TH BAY)	X	X	
MECHANICAL				
MD-101	BASE BID - LEVEL 1 MECHANICAL DEMOLITION PLAN	X	X	
M-001	MECHANICAL NOTES & LEGENDS	X	X	
M-002	MECHANICAL SCHEDULES	X	X	
M-003	MECHANICAL DETAILS	X	X	
M-004	MECHANICAL DETAILS & CONTROLS	X	X	
M-101	BASE BID - LEVEL 1 MECHANICAL PLAN	X	X	
M-101A	ALTERNATE 1 - LEVEL 1 MECHANICAL PLAN (4TH BAY)	X	X	
M-201	BASE BID - ROOF LEVEL MECHANICAL PLAN	X	X	
M-201A	ALTERNATE 1 - ROOF LEVEL MECHANICAL PLAN (4TH BAY)	X	X	
ELECTRICAL				
ED-101	BASE BID - LEVEL 1 POWER & TELECOM DEMOLITION PLAN	X	X	
ED-201	BASE BID - LEVEL 1 LIGHTING DEMOLITION PLAN	X	X	
ED-301	BASE BID - LEVEL 1 SYSTEMS DEMOLITION PLAN	X	X	
E-001	ELECTRICAL NOTES & LEGENDS	X	X	
E-002	ELECTRICAL SCHEDULES & DETAILS	X	X	
E-003	ELECTRICAL DETAILS	X	X	
E-010	ELECTRICAL ONE-LINE DIAGRAM	X	X	
E-050	ELECTRICAL PANEL SCHEDULES (3 BAY)	X	X	
E-051	ELECTRICAL PANEL SCHEDULES (4 BAY)	X	X	
E-100	ELECTRICAL SITE PLAN	X	X	
E-101	BASE BID - LEVEL 1 POWER & TELECOM PLAN	X	X	
E-101A	ALTERNATE 1 - LEVEL 1 POWER & TELECOM PLAN (4TH BAY)	X	X	
E-102	BASE BID - ROOF LEVEL POWER & TELECOM PLAN	X	X	
E-102A	ALTERNATE 1 - ROOF LEVEL POWER & TELECOM PLAN (4TH BAY)	X	X	
E-201	BASE BID - LEVEL 1 LIGHTING PLAN	X	X	
E-201A	ALTERNATE 1 - LEVEL 1 LIGHTING PLAN (4TH BAY)	X	X	
E-301	BASE BID - LEVEL 1 SYSTEMS PLAN	X	X	
E-301A	ALTERNATE 1 - LEVEL 1 SYSTEMS PLAN (4TH BAY)	X	X	
E-302	BASE BID - ROOF LEVEL SYSTEMS PLAN	X	X	
E-302A	ALTERNATE 1 - ROOF LEVEL SYSTEMS PLAN (4TH BAY)	X	X	
Grand total: 91				

OWNER
CLIENT
HORRY GEORGETOWN TECH. COLLEGE
2050 US 501 EAST
CONWAY, SC 29526
843-347-3186
DIANNA CECALA
Dianna.Cecala@hgtc.edu

PROJECT TEAM
ARCHITECT
PMH | CROFT Architects
1300 PROFESSIONAL DRIVE, SUITE 201
MYRTLE BEACH, SC 29577
843-497-0272
GREG MCFARLAND
gtmc@pmhcroft.com

CIVIL
ADC Engineering Inc.
1226 YEAMANS HALL ROAD
HANAHAN, SC 29410
843-566-0161
RYNE HARDWICK, PE
ryneh@adcengineering.com

STRUCTURAL
Weatherly Structural Engineers
415 ALDER ST - SUITE 2, BOX B
MYRTLE BEACH, SC 29577
843-448-3428
ASHLEIGH WEATHERLY, PE
aweatherly@weatherlyengineering.com

MECH/ELEC/PLUMB
DWG Consulting Engineers
1009 ANNA KNAPP BLVD., SUITE 200
MOUNT PLEASANT, SC 29464
843-849-1141
WILL BILLARD, PE
wbillard@dwginc.com

PMH CROFT
ARCHITECTS & ENGINEERS
1300 Professional Drive, Suite 201
Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
www.pmhcroft.com

STATE OF SOUTH CAROLINA
Croft &Associates SC, LLC
MYRTLE BEACH, S.C.
102094
REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA
GREGORY T. McFARLAND
MYRTLE BEACH, S.C.
5047
REGISTERED ARCHITECT

OWNER
HORRY GEORGETOWN TECHNICAL COLLEGE
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

HORRY GEORGETOWN TECHNICAL COLLEGE

PROJECT NAME
HGTC AUTOMOTIVE TECHNOLOGY BLDG. 1400 EXPANSION

CONWAY,SC 29526

H59-N302-CB

No.	Date	Description
1	2025-09-24	BID DOCUMENTS
B	2025-08-04	CONSTRUCTION DOCUMENTS
A	2025-07-28	OWNER REVIEW
ISSUANCE		

PROJECT NUMBER
2025-2006

DRAWN: CRF
CHECKED: CKH

SHEET TITLE
COVER SHEET

SHEET NO.
G-001

THIS SHEET PLOTS ON 24"x36" ARCH D
3" 2" 1" 1/2" 0

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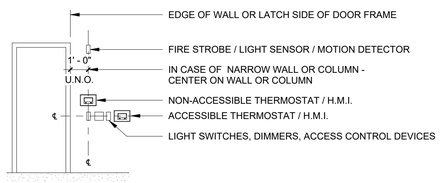
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MASTER LEGEND: ARCHITECTURAL DEMOLITION SHEET NOTES
SEE INDIVIDUAL SHEETS FOR APPLICATION

TAG #	TAG DESCRIPTION
A	NEW 6'-0" W. X 7'-4" H. OPENING IN EXISTING WALL
B	REMOVE EXISTING ENTRY DOOR AND FRAME FOR REPLACEMENT IN PLACE
D	REMOVE EXISTING HIGH LOUVERS AND INFILL WITH CMU TO MATCH AND ALIGN WITH EXISTING. REMOVE WAL PORTIONS FOR NEW LOUVERS
E	REMOVE FINISHES AS REQUIRED TO PREPARE FOR NEW TOILET ROOM AND DRINKING FOUNTAIN
F	REMOVE EXISTING DOWNSPOUT AND PATCH GUTTERS IN PREPARATION FOR NEW WORK
G	REMOVE EXISTING BOLLARDS AND STOCKPILE FOR REUSE
H	PREPARE EXISTING DOOR FOR NEW EXIT HARDWARE AND CLOSER
I	REMOVE AND REPLACE EXISTING GUTTERS IN PLACE
K	REMOVE EXISTING WOOD SOFFIT
L	REMOVE EXISTING ASPHALT SHINGLES AND UNDERLAYMENT
M	REMOVE EXISTING EAVE OVERHANG AS REQUIRED FOR NEW CONSTRUCTION
N	REMOVE EXISTING WOOD SOFFIT AND VENTING
O	EXISTING DOWNSPOUT TO BE REINSTALLED
P	REMOVE EXISTING CARPET AND UNDERLAYMENT

MASTER LEGEND: ARCHITECTURAL SHEET NOTES
SEE INDIVIDUAL SHEETS FOR APPLICATION

TAG #	TAG DESCRIPTION
1	NEW MASONRY OPENING
2	EXISTING HYDRAULIC LIFTS
3	NEW MASONRY OPENING. FRAME WITH 3/16 PLATE STEEL ANCHORED TO EXISTING CMU, PAINTED
4	NEW 10,000# DUAL POST HYDRAULIC LIFTS BY OWNER. COORDINATE LOCATION WITH OWNER.
5	EYEWASH LOCATION
6	NEW DRINKING FOUNTAIN / BOTTLE FILLER. COORDINATE LOCATION WITH EXISTING THERMOSTAT
7	SERVICE SINK
8	NEW 8'-0" HIGH CHAINLINK FENCE
9	(2) 3'-0" WIDE BY 8'-0"H. CHAIN LINK GATES
10	INSULATED MOTORIZED OVERHEAD DOOR
11	FEATHER OUT CONCRETE FLOORS FOR POSITIVE DRAINAGE TOWARD BAY DOORS
12	EXPANSION JOINT AT NEW AND EXISTING WALLS
13	WATER HEATER LOCATION. SEE MEP PLANS
14	NEW MOP SINK AND FAUCET
15	COORDINATE LOUVER SIZES AND LOCATION WITH MECHANICAL
17	METAL PANEL CLADDING
20	INFILL EXISTING OPENINGS WITH 12" CMU BLOCK TO ALIGN WITH EXISTING
21	REPLACE EXISTING ASPHALT SHINGLE ROOF WITH NEW STANDING SEAM METAL ROOF. INSTALL AND FLASH PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
22	NEW TPO ROOF
23	REMOVE EXISTING GUTTERS. WRAP EXISTING WOOD FASCIA IN ALUMINUM. REMOVE EXISTING WOOD SOFFIT AND REPLACE WITH PERFORATED METAL SOFFIT.
24	NEW GUTTER AND DOWNSPOUTS
25	NEW DOWNSPOUT TO DISCHARGE ONTO SPLASHBLOCK ON ROOF
26	DISCHARGE UPPER DOWNSPOUT INTO LOWER GUTTER
27	NEW PREFINISHED METAL COPING
28	EXISTING DOWNSPOUT TO REMAIN OR REINSTALLED IN PLACE
29	RECONFIGURE EXISTING DOWNSPOUT TO DISCHARGE ONTO NEW ROOF BELOW
30	NEW CRICKET WITH STANDING SEAM METAL ROOFING OVERFRAMED OVER EXISTING ROOF. FLASH AND INSTALL PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS
31	NEW 4' X 5' METAL CANOPY
32	NEW STANDING SEAM METAL ROOF
33	NEW LOUVER WITH INSECT SCREEN, ALUMINUM
34	EXISTING DOWNSPOUT TO REMAIN
35	PAINT EXISTING ROOF STRUCTURE AND UNDERSIDE OF DECK, WHITE
36	FABRIC DUCTWORK. SEE MECHANICAL
37	NEW HIGH BAY LIGHTING. SEE ELECTRICAL
38	NEW 4' X 5' METAL CANOPY AT EXIT DOOR
39	NEW ALUM FASCIA
41	NEW 30" H. BRUSHED ALUMINUM SIGNAGE
42	REPLACE EXISTING SIGNAGE WITH BRUSHED ALUMINUM AND MOUNT 1'-4" HIGHER. PATCH AND REPAINT HOLES. FONTS TBD AND HEIGHT. LETTERING HEIGHTS TO MATCH EXISTING.
43	REPLACE EXISTING BUILDING NUMBERS IN BRUSHED ALUMINUM LETTERS. FONT AND SIZE TO BE IN KIND.



NOTES:
1. COORDINATE WITH SPECIFIC WALL ELEVATION AND LOCATION.
2. GROUP AND ALIGN ALL WALL-MOUNTED DEVICES ON EACH WALL IN AN ORGANIZED MANNER. VERIFY WITH ARCHITECT IN CASE OF CONFLICT.
3. REFER TO MECHANICAL/HVAC DRAWINGS FOR MOUNTING HEIGHT OF THERMOSTAT AND OTHER HUMAN MACHINE INTERFACE (H.M.I.) DEVICES
4. REFER TO ELECTRICAL DRAWINGS FOR MOUNTING HEIGHTS OF ALL OTHER DEVICES.
5. FAILURE TO ALIGN DEVICES WILL REQUIRE CORRECTION AT CONTRACTOR'S EXPENSE.

A2 / G-002 TYPICAL WALL MOUNTED DEVICE ALIGNMENT
NOT TO SCALE

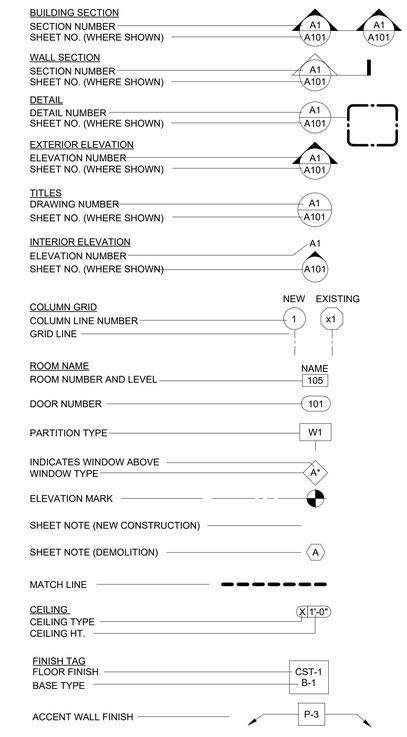
GENERAL CONTRACTOR'S RESPONSIBILITIES:

1. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL BUILDING PERMITS, APPROVALS. GENERAL CONTRACTOR IS TO OBTAIN ALL REQUIRED PERMITS PRIOR TO COMMENCEMENT OF ANY WORK.
2. GENERAL CONTRACTOR SHALL FURNISH COPIES OF PERMITS, INSPECTIONS, AND CERTIFICATES TO OWNER ALONG WITH FIRST APPLICATION FOR PAYMENT.
3. GENERAL CONTRACTOR SHALL PROVIDE ALL PERMITS, CERTIFICATES OF OCCUPANCY, AND CLOSE-OUT DOCUMENTS TO ARCHITECT UPON COMPLETION OF PROJECT. ARCHITECT WILL REVIEW AND FORWARD TO OWNER.
4. GENERAL CONTRACTOR SHALL VERIFY ACCURACY OF THE CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONFIRM WORK IS BUILDABLE BEFORE PROCEEDING WITH THE WORK. IF ANY CONTRACTOR HAS A QUESTION ABOUT THE WORK, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING AND OBTAINING WRITTEN CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH THAT PORTION OF THE WORK OR RELATED WORK IN SUFFICIENT TIME FOR THE WRITTEN CLARIFICATION TO BE ISSUED WITHOUT CAUSING DELAY TO THE PROJECT.
5. GENERAL CONTRACTOR SHALL VERIFY THAT CONFLICTS DO NOT OCCUR AT MECHANICAL, PLUMBING, FIRE PROTECTION, AND/OR ELECTRICAL LOCATIONS (E.G., DUCTWORK, PIPING, CONDUITS). ENSURE THAT ALL REQUIRED CLEARANCES FOR INSTALLATION AND MAINTENANCE OF EQUIPMENT IS PROVIDED. NOTIFY ARCHITECT OF ANY POTENTIAL CONFLICTS BEFORE PROCEEDING WITH THE WORK SO ANY CONFLICTS CAN BE MUTUALLY RESOLVED.

DEFINITIONS:

1. "ALIGN" MEANS WHERE A GWB PARTITION/WALL IS TO BE IN SAME PLANE OF ANOTHER PARTITION/WALL, THE GWB SHALL BE IN SAME PLANE AS FINISHED FACE OF OTHER PARTITION/WALL AND HAVING JOINT FINISHED SMOOTH AND UNDETECTABLE OR CAULKED WHERE APPLICABLE.
2. "ALIGN" MEANS WHERE A CMU WALL/PARTITION IS TO BE IN SAME PLANE OF ANOTHER WALL/PARTITION, THE FACE OF CMU SHALL BE IN SAME PLANE AS FINISHED FACE OF OTHER PARTITION AND HAVING JOINT CAULKED/SEALED WHERE APPLICABLE.
3. DIMENSIONS NOTED AS "CLEAR" SHALL BE FROM FINISHED FACE TO FINISHED FACE.
4. "TYPICAL" MEANS THE SAME AS FOR ALL SIMILAR CONDITIONS.
5. WHEREVER THE TERM "OR EQUAL" IS USED, IT SHALL MEAN A LIKE PRODUCT TO BE SUBMITTED TO ARCHITECT FOR CONSIDERATION.

LEGENDS & SYMBOLS:



GENERAL NOTES:

1. THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SUPERVISION AND COORDINATION OF ALL CONSTRUCTION PROCEDURES.
2. THE DRAWINGS AND SPECIFICATIONS ARE TO BE STUDIED AND USED IN THEIR ENTIRETY AS INFORMATION VITAL TO ALL CONSTRUCTION ACTIVITIES.
3. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE APPLICABLE CODES AND ORDINANCES IN EFFECT AT TIME OF PERMIT. IN THE EVENT OF A CONFLICT, THE MORE STRINGENT REQUIREMENT SHALL GOVERN AND BE MET.
4. CONTRACTORS SHALL COORDINATE LOCATIONS AND ELEVATIONS OF FLOOR DRAINS, DIFFUSERS, GRILLES, LOUVERS, DUCTS, ACCESS PANELS, ETC. WITH OTHER CONTRACTORS AND ARCHITECTURAL DRAWINGS.
5. WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY TO ALL LIKE OR SIMILAR CONDITIONS, EVEN THOUGH NOT MARKED SPECIFICALLY ON THE DRAWINGS.
6. GENERAL CONTRACTOR SHALL ENSURE CONSTRUCTION ENVIRONMENT IS MAINTAINED IN SUCH A WAY TO INHIBIT MOLD AND MILDEW GROWTH.
7. PROVIDE FINISHED SURFACE UNDER AND BEHIND ALL EQUIPMENT AND CASEWORK / MILLWORK, UNO.
8. GENERAL CONTRACTOR SHALL PROMPTLY REMOVE AND LEGALLY DISPOSE OF ALL ACCUMULATED DEBRIS, PROTECT ALL EXPOSED PORTIONS OF THE WORK FROM THE ELEMENTS, AND AVOID OVER-LOADING STRUCTURE.
9. GENERAL CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
10. GENERAL CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION.
11. ANY EXISTING UTILITIES TO BE ABANDONED SHALL BE PROPERLY DISCONNECTED, REMOVED, PLUGGED OR CAPPED, BY THE APPROPRIATE CONTRACTOR AND AS REQUIRED BY CODE OR SOUND CONSTRUCTION PRACTICE IF NOT REQUIRED BY CODE.
12. NO CHANGES, MODIFICATIONS OR DEVIATIONS SHALL BE MADE FROM THE DRAWINGS OR SPECIFICATIONS WITHOUT THE GENERAL CONTRACTOR FIRST SECURING WRITTEN PERMISSION FROM THE ARCHITECT .
13. WHERE INFORMATION IS INCOMPLETE, NOT CLEAR, OR DISCREPANCY APPEARS IN THE DRAWINGS OR SPECIFICATIONS, REQUEST WRITTEN INTERPRETATION FROM THE ARCHITECT BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
14. PROVIDE ADEQUATE FRT BLOCKING AND ANCHORING FOR ALL CEILING AND WALL MOUNTED EQUIPMENT, FIXTURES, CASEWORK, HARDWARE AND ACCESSORIES WHERE REQUIRED FOR INSTALLATION.
15. WHEN A SYSTEM OR ASSEMBLY IS SPECIFIED, ALL NECESSARY PARTS AND MATERIALS REQUIRED FOR A COMPLETE INSTALLATION / SYSTEM SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
16. UNLESS OTHERWISE NOTED, ELECTRICAL CONDUITS, PLUMBING LINES, ETC. IN FRAMED WALLS SHALL BE CONCEALED WITHIN PARTITIONS AND FRAMING SIZED TO ACCOMPLISH RESULT WITHOUT CAUSING ANY CHANGES IN THE PLANE OF THE FACE OF THE PARTITION.
17. CONTRACTORS SHALL COORDINATE LOCATIONS OF SLEEVES OR OTHER PRESET ACCESSORIES SET BY OTHER CONTRACTORS THAT MAY AFFECT THEIR WORK.
18. GENERAL CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR THE COMPLETION OF ALL WORK SHOWN OR REASONABLY IMPLIED BY THESE DRAWINGS AND SPECIFICATIONS.
19. ARCHITECT IS NOT RESPONSIBLE FOR EQUIPMENT OR MATERIALS NOT SHOWN OR SPECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS THAT ARE REQUIRED TO COMPLETE THE WORK.
20. DIMENSIONS ON FLOOR PLANS ARE FROM FACE OF STUD / CMU / CONC / BRICK AT EXTERIOR WALLS TO FACE OF STUD / CMU OF INTERIOR WALLS, UNO. BEAMS AND GIRDERS ARE DIMENSIONED TO CENTERLINE, UNO.
21. DETAILS TAKE PRECEDENCE OVER PLANS AND ELEVATIONS, LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS, AND SPECIFICATIONS TAKE PRECEDENCE OVER DRAWINGS.
22. ANY TEMPORARY WATER OR ELECTRICITY NEEDED TO PERFORM THE SCOPE OF THE CONSTRUCTION WORK SHALL BE PROVIDED BY THE GENERAL CONTRACTOR AT THE CONTRACTOR'S EXPENSE FOR USE BY THE GENERAL CONTRACTOR AND SUBCONTRACTORS.
23. SPECIFIC PRODUCTS IDENTIFIED IN THE DRAWINGS AND/OR SPECIFICATIONS ARE BASIS OF DESIGN, UNO OR NOTED AS SOLE SOURCE. A SUBSTITUTION OF A LIKE PRODUCT FOR A PRODUCT NOT IDENTIFIED AS SOLE SOURCE CAN BE SUBMITTED TO THE ARCHITECT FOR CONSIDERATION IN ACCORDANCE WITH DIVISION 01 OF THE SPECIFICATIONS. THE PRODUCT SUBMITTED MUST BE SUBMITTED PROMPTLY AND HAVE SAME OR BETTER PERFORMANCE OF THE PRODUCT IDENTIFIED IN THE CONTRACT DOCUMENTS.
24. GENERAL CONTRACTOR SHALL PROTECT ALL MATERIALS ON JOBSITE FROM THE ELEMENTS AND ENSURE THEY DO NOT DEVELOP MOLD.
25. GENERAL CONTRACTOR SHALL ORDER AND PURCHASE ALL SPECIFIED FURNITURE, EQUIPMENT AND APPLIANCES DESIGNATED TO BE PROVIDED AS PART OF THE CONSTRUCTION CONTRACT (E.G., REFRIGERATORS, A/V EQUIPMENT, TV MONITORS, PROJECTION SCREENS, PROJECTORS, ETC.) THE GENERAL CONTRACTOR SHALL TEMPORARILY STORE, PROTECT, SET-UP / INSTALL, AND CONNECT EACH ITEM AS NECESSARY FOR A COMPLETE AND OPERABLE INSTALLATION.
26. FOR RENOVATION WORK, GENERAL CONTRACTOR SHALL PROTECT EXISTING ITEMS NOT BEING ALTERED OR DEMOLISHED. ANY EXISTING ITEMS DAMAGED OR DESTROYED AS A RESULT OF DEMOLITION OR CONSTRUCTION ACTIVITIES SHALL BE REPAIRED OR REPLACED BY THE GENERAL CONTRACTOR AT NO COST TO AND SATISFACTION OF THE OWNER .
27. DESIGN OF THIS PROJECT IS BASED UPON ON-SITE OBSERVATIONS, VARIOUS DOCUMENTS, AND INFORMATION PROVIDED BY THE OWNER. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS. UPON DISCOVERY OF ANY DISCREPANCIES OR QUESTIONABLE ISSUES BY ANY CONTRACTOR, THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY AND REQUEST INTERPRETATION FROM THE ARCHITECT AND NOT PROCEED WITH THAT PORTION OF THE WORK WITHOUT THE GENERAL CONTRACTOR RECEIVING WRITTEN INTERPRETATION FROM THE ARCHITECT . IF ANY CONTRACTOR PROCEEDS WITHOUT OBTAINING THE WRITTEN INTERPRETATION, THE GENERAL CONTRACTOR SHALL ACCEPT FULL RESPONSIBILITY / LIABILITY FOR THAT PORTION OF THE WORK.

PMH CROFT
ARCHITECTS & ENGINEERS
1300 Professional Drive, Suite 201
Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
www.pmhcroft.com

STATE OF SOUTH CAROLINA
Croft &Associates SC, LLC
MYRTLE BEACH, S.C.
102094
REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA
GREGORY T. McFARLAND
MYRTLE BEACH, S.C.
5047
REGISTERED ARCHITECT

OWNER
HORRY GEORGETOWN TECHNICAL COLLEGE
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

HORRY GEORGETOWN TECHNICAL COLLEGE

PROJECT NAME
HGTC AUTOMOTIVE TECHNOLOGY BLDG. 1400 EXPANSION

CONWAY,SC 29526

H59-N302-CB

No.	Date	Description
1	2025-09-24	BID DOCUMENTS
B	2025-08-04	CONSTRUCTION DOCUMENTS
A	2025-07-28	OWNER REVIEW
ISSUANCE		

PROJECT NUMBER
2025-2006

DRAWN: CRF
CHECKED: CKH

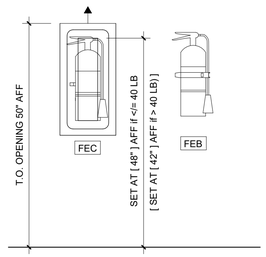
SHEET TITLE
GENERAL INFORMATION

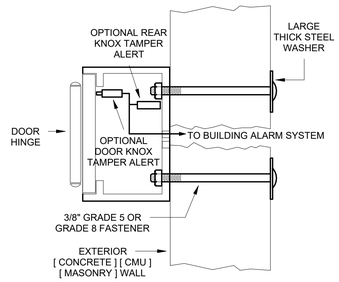
SHEET NO.
G-002

THIS SHEET PLOTS ON 24"x36" ARCH D
3" 2" 1" 1/2" 0

2023 Edition

TABLE 3E CODE INFORMATION FOR ADDITIONS, ALTERATIONS, OR CHANGE OF OCCUPANCY TO AN EXISTING STRUCTURE	
TYPE OF PROJECT: ☐ Alteration (IEBC Chaps. 7, 8 & 9) ☒ Addition (IEBC Chap. 11) ☐ Change of Occupancy (IEBC Chap. 10)	
METHOD OF COMPLIANCE: (Check only one Option and all items that apply under that Option.)	☒ **Option 1: Prescriptive Compliance Method (IEBC Chapter 5)** ☐ **Option 2: Work Area Compliance Method (IEBC Chaps. 6-12)** ☐ Alteration Level 1, minor including reroofing (IEBC Chap. 7) ☐ Alteration Level 2, reconfigurations of space (IEBC Chap. 8) ☐ Alteration Level 3, work area exceeds 50% (IEBC Chap. 9) Aggregate area of building: _____ SF Work area: _____ SF ☐ **Option 3: Performance Compliance Method (IEBC Chap. 13)**
CONSTRUCTION CLASSIFICATION (IBC 602) Type: VB	
Change of Occupancy:	☐ Yes ☒ No
Existing Occupancy Classification(s): S-1 / B	
New Occupancy Classification(s): S-1 / B (No change)	
Original Building Code and Edition Applicable at time of Construction: _____	
Provisions for Accessibility Required (IEBC 306)?	☒ Yes ☐ No
Existing Sprinkler System?	☐ Yes ☒ No
Existing Fire Alarm System?	☐ Manual ☐ Auto
Seismic Evaluation Required?	☐ Yes ☒ No
Major Facility Project? (See §48-52-810(10)(a))	☐ Yes ☒ No
Historic Building (IEBC Chapter 12):	☐ Yes ☐ No
☐ Preservation ☐ Rehabilitation ☐ Restoration ☐ Reconstruction	





M1 / LS101 FIRE EXTINGUISHERS MOUNTING HGT
NOT TO SCALE

M5 / LS101 KNOXBOX - SURFACE-MOUNTED
NOT TO SCALE

LIFE SAFETY LEGEND

- ONE-HOUR FIRE RATED WALL
- FEB — FIRE EXTINGUISHER AND BRACKET
- TRAVEL DISTANCE
- COMMON PATH OF TRAVEL
- EXIT SIGN
- P 540 / R120 — DOOR EGRESS LOAD TAG P= PROVIDED R= REQUIRED

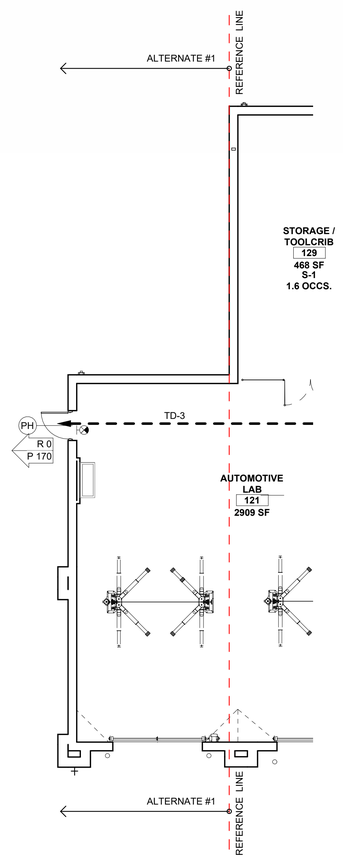
SC APPLICABLE CODES:

- **2021 SOUTH CAROLINA BUILDING CODE** (OR THE **2021 INTERNATIONAL BUILDING CODE** WITH SC MODIFICATIONS)
- **2021 SOUTH CAROLINA FIRE CODE** (OR THE **2021 INTERNATIONAL FIRE CODE** WITH SC MODIFICATIONS)
- **2021 SOUTH CAROLINA PLUMBING CODE** (OR THE **2021 INTERNATIONAL PLUMBING CODE** WITH SC MODIFICATIONS)
- **2021 SOUTH CAROLINA MECHANICAL CODE** (OR THE **2021 INTERNATIONAL MECHANICAL CODE** WITH SC MODIFICATIONS)
- **2021 SOUTH CAROLINA FUEL GAS CODE** (OR THE **2021 INTERNATIONAL FUEL GAS CODE** WITH SC MODIFICATIONS)
- **2020 NATIONAL ELECTRICAL CODE (NFPA 70)** WITH SC MODIFICATIONS
- **2009 INTERNATIONAL ENERGY CONSERVATION CODE**
- THE LATEST EDITION OF **ICC/ANSI A117.1**, ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES

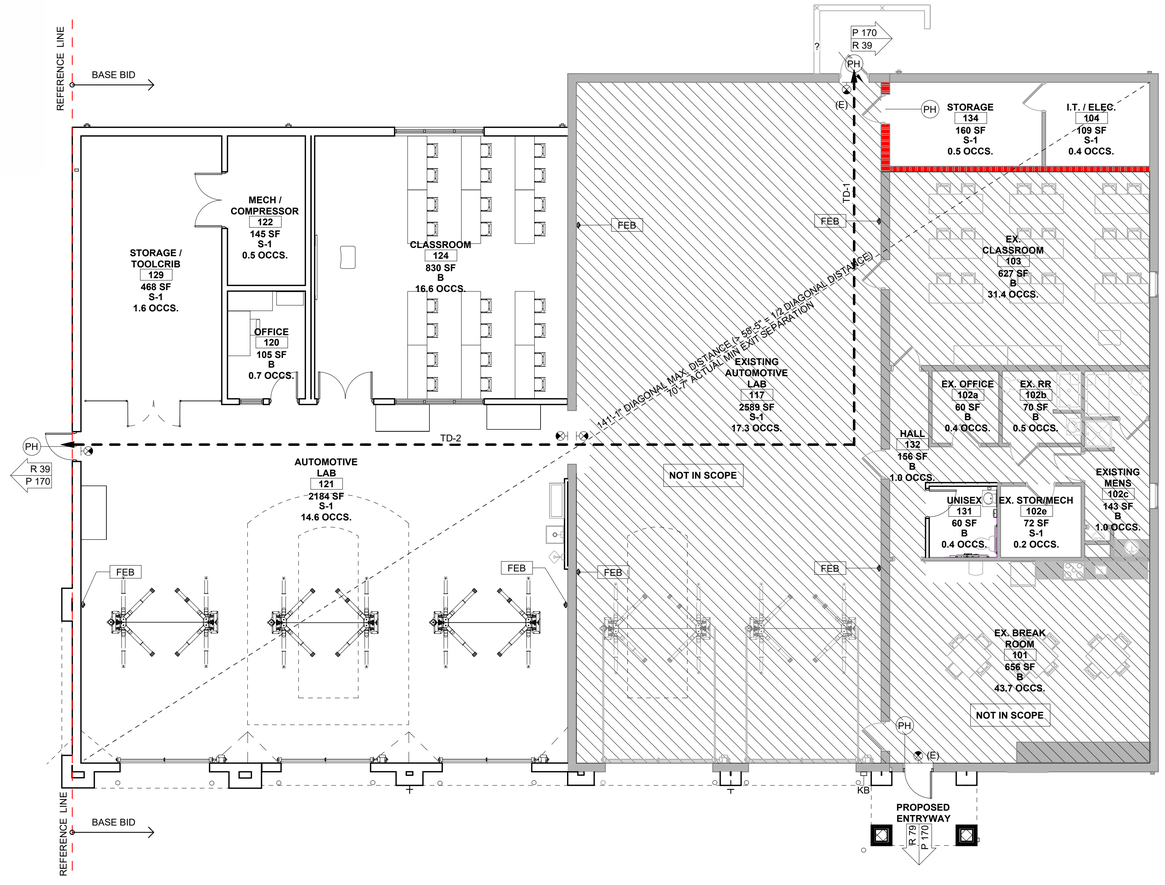
CODE RESEARCH:

THIS BUILDING IS NON SPRINKLERED

1. CONSTRUCTION TYPE = **VB**
2. BUILDING USE / OCCUPANCY: B, S-1 (SEPARATED USE)
3. SEPARATION REQUIRED BETWEEN S-1 AND B: 0 HOURS
4. ALLOWABLE BUILDING HEIGHT = **40'-0"** (B, S-1)
5. ALLOWABLE NUMBER OF STORIES = **1** (S-1)
6. ACTUAL NUMBER OF STORIES = **1** (S-1)
7. ALLOWABLE BUILDING AREA = **9,000 SF** (B, S-1 - "NS")
   AREA INCREASE FACTOR: 0.63 (25' < x < 30')
   9,000 X 0.63 = 5,670 sf
   TOTAL ALLOWABLE BUILDING AREA: **14,670 SF**
8. ACTUAL GROSS AREA CALCULATIONS
   - EXISTING BUILDING = 4,871 GSF
   - NEW ADDITION = 3,809 GSF (4,493 GSF ALTERNATE #1)
   - **TOTAL AREA = 8,680 GSF (9,364 GSF ALTERNATE #1)**
9. INTERIOR WALL AND CEILING FINISHES SHALL BE **CLASS C**
10. INTERIOR FLOOR FINISHES SHALL BE **CLASS II**



PLAN NORTH — B1 / LS101 LAS PLAN - ALTERNATE
1/8" = 1'-0"



PLAN NORTH — B6 / LS101 LAS PLAN - BASE BID
1/8" = 1'-0"

OCCUPANT LOAD - BASE BID

RM #	RM NAME	AREA	OCCUPANCY USE	OCC. FACTOR	OCC. LOAD
101	EX. BREAK ROOM	656 SF	B	15 SF	44
102a	EX. OFFICE	60 SF	B	150 SF	1
102b	EX. RR	70 SF	B	150 SF	1
102c	EXISTING MENS	143 SF	B	150 SF	1
102e	EX. STOR/MECH	72 SF	S-1	300 SF	1
103	EX. CLASSROOM	627 SF	B	20 SF	32
104	I.T. / ELEC.	109 SF	S-1	300 SF	1
117	EXISTING AUTOMOTIVE LAB	2589 SF	S-1	150 SF	18
120	OFFICE	105 SF	B	150 SF	1
121	AUTOMOTIVE LAB	2184 SF	S-1	150 SF	15
122	MECH / COMPRESSOR	145 SF	S-1	300 SF	1
124	CLASSROOM	830 SF	B	50 SF	17
129	STORAGE / TOOLCRIB	468 SF	S-1	300 SF	2
131	UNISEX	60 SF	B	150 SF	1
132	HALL	156 SF	B	150 SF	2
134	STORAGE	160 SF	S-1	300 SF	1

EXITS PROVIDED		
SIZE	# OF DOORS	NUMBER OF OCCUPANTS
3'-0"	2 DOOR(S) @ 170 OCC/ DR	= 340 OCC. PROVIDED FOR
3'-0"	1 DOORS 170 OCC/ DR	= 170 OCC. PROVIDED FOR
		= 510 TOTAL OCC.

PLUMBING FIXTURE COUNT PER IBC TABLE 403.1 (2018)

	WATER CLOSET(S)		URINAL(S)		LAV(S)		DF(S)	OTHER (SERVICE SINK)	BATHTUB(S)/ SHOWER(S)
	M	F	M	50% OF RECD W/C(S)	M	F			
MIN. ALLOW.	2	2	N/A		2	2	1	1	N/A
PROVIDED	1	2	1		2	2	1	1	N/A

TRAVEL DISTANCES		
PATH	TOTAL DISTANCE	MAX
TD-1	40'-6"	200'
TD-2	87'-1"	200'
TD-3	105'-0"	200'
TRAVEL DISTANCE	145'-9"	200'

NOTE:

1. EXISTING EMERGENCY RESPONDER TWO-WAY RADIO COVERAGE TESTING TO REMAIN OR BE REINSTALLED PER SC IFC 510.
2. COORDINATE KNOX BOX LOCATIONS WITH FIRE DEPARTMENT HAVING JURISDICTION.
3. VERIFY EXIT SIGNS AT EXISTING BUILDINGS OR INSTALL NEW

PMH CROFT ARCHITECTS & ENGINEERS
1300 Professional Drive, Suite 201
Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
www.pmhcroft.com

STATE OF SOUTH CAROLINA — Croft &Associates SC, LLC — MYRTLE BEACH, S.C. — 102094 — REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA — GREGORY T. McFARLAND — MYRTLE BEACH, S.C. — 5047 — REGISTERED ARCHITECT

OWNER

HORRY GEORGETOWN TECHNICAL COLLEGE
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

HORRY GEORGETOWN TECHNICAL COLLEGE

PROJECT NAME

HGTC AUTOMOTIVE TECHNOLOGY BLDG. 1400 EXPANSION

CONWAY,SC 29526

H59-N302-CB

No.	Date	Description
1	2025-09-24	BID DOCUMENTS
B	2025-08-04	CONSTRUCTION DOCUMENTS
A	2025-07-28	OWNER REVIEW
ISSUANCE		

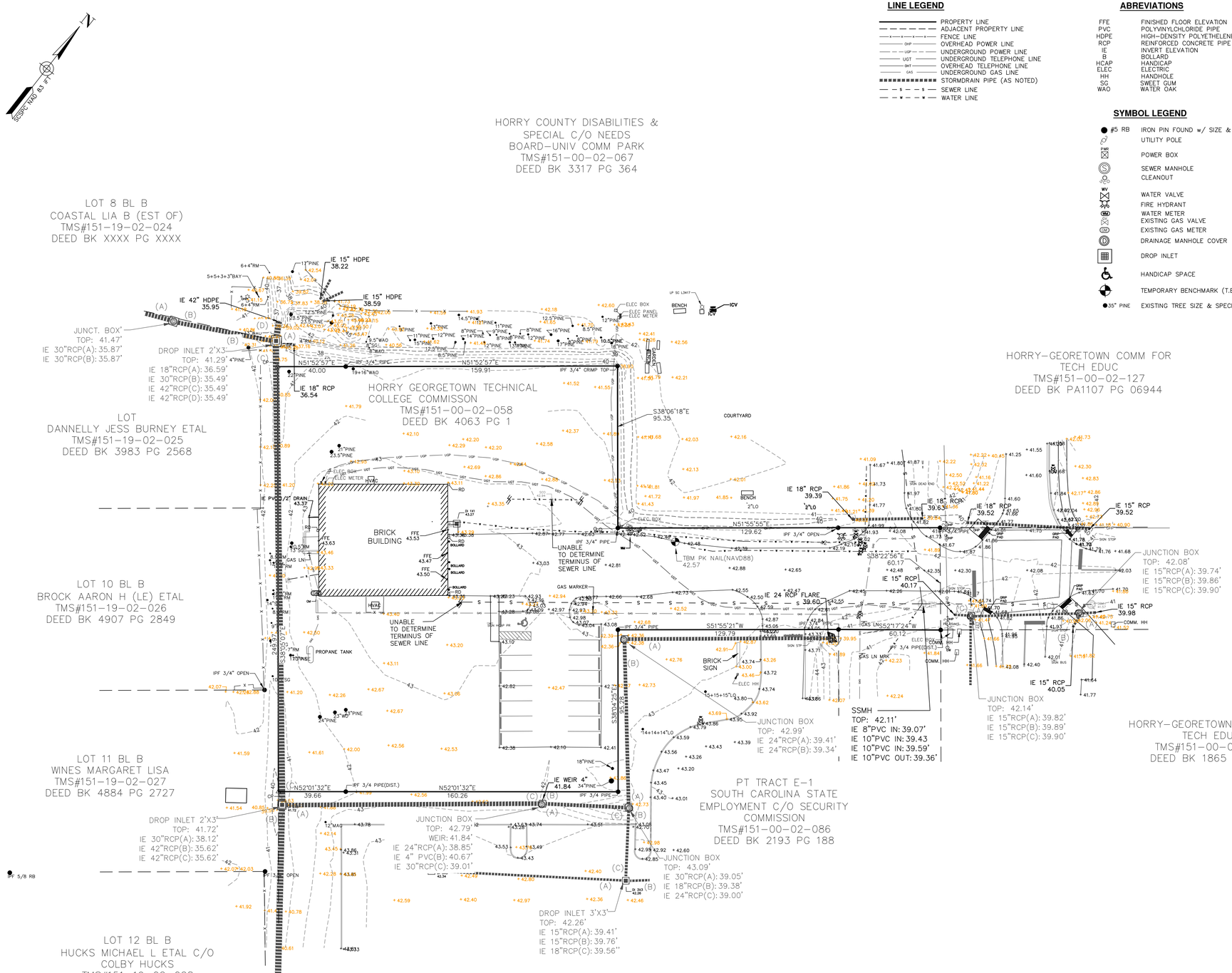
PROJECT NUMBER
2025-2006

DRAWN: CRF
CHECKED: CKH

SHEET TITLE
LIFE SAFETY PLAN

SHEET NO.
LS101

9/24/2025 5:17:15 PM Autodesk Docs://2025-2006 HGTC Automotive Technology/2025-2006 HGTC Automotive Tech_A25.rvt
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LINE LEGEND

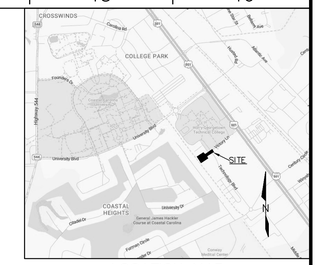
- PROPERTY LINE
- ADJACENT PROPERTY LINE
- FENCE LINE
- OHP — OVERHEAD POWER LINE
- UGP — UNDERGROUND POWER LINE
- UGT — UNDERGROUND TELEPHONE LINE
- OHT — OVERHEAD TELEPHONE LINE
- GAS — UNDERGROUND GAS LINE
- STORMDRAIN PIPE (AS NOTED)
- S — SEWER LINE
- W — WATER LINE

ABREVIATIONS

FFE	FINISHED FLOOR ELEVATION
PVC	POLYVINYLCHLORIDE PIPE
HDPE	HIGH-DENSITY POLYETHELENE PIPE
RCP	REINFORCED CONCRETE PIPE
IE	INVERT ELEVATION
B	BOLLARD
HCAP	HANDICAP
ELEC	ELECTRIC
HH	HANDHOLE
SG	SWEET GUM
WAO	WATER OAK

SYMBOL LEGEND

- #5 RB — IRON PIN FOUND w/ SIZE & TYPE DESC.
- UTILITY POLE
- POWER BOX
- SEWER MANHOLE
- CLEANOUT
- WV — WATER VALVE
- FIRE HYDRANT
- WM — WATER METER
- EXISTING GAS VALVE
- GM — EXISTING GAS METER
- DRAINAGE MANHOLE COVER
- DROP INLET
- HANDICAP SPACE
- TEMPORARY BENCHMARK (T.B.M.)
- 35" PINE — EXISTING TREE SIZE & SPECIES



LOCATION MAP
NOT TO SCALE

SURVEY NOTES

1. THIS PROPERTY IS LOCATED IN FLOOD ZONE "X" WITH NO BASE FLOOD ELEVATION, AS INDICATED ON FLOOD INSURANCE RATE MAP #45051C0542K, DATED 12/16/2021.
2. HORIZONTAL DATUM: NAD83(2011) SOUTH CAROLINA STATE PLANE INTERNATIONAL FEET, VERTICAL DATUM: NAVD88, DETERMINED BY GLOBAL POSITIONING SYSTEM.
3. THIS PLAT REPRESENTS A SURVEY BASED UPON THE LISTED REFERENCES ONLY, AND IS NOT THE RESULT OF A TITLE SEARCH. THE PROPERTY MAY BE SUBJECT TO RESTRICTIONS, EASEMENTS, AND DEEDS UNKNOWN TO THE SURVEYOR.
4. ANYTHING SHOWN OUTSIDE OF DEFINED BOUNDARY IS FOR INFORMATION PURPOSES ONLY.
5. WETLANDS WERE NOT INVESTIGATED DURING THE COURSE OF THIS SURVEY.
6. THIS SURVEY DOES NOT WARRANT THAT UTILITIES ARE SHOWN ACCURATELY NOR THAT ALL UTILITIES ARE SHOWN. CALL PALMETTO UTILITIES LOCATION SERVICE AT 1-800-922-0983 A MINIMUM OF THREE (3) WORKING DAYS BEFORE DIGGING.

SURVEY REFERENCES

1. REFERENCE PLAT DATED JANUARY 27, 1988 RECORDED IN PLAT BOOK "100" PAGE 5, AT THE HORRY COUNTY ROD OFFICE.
2. TMS 151-00-02-058.
3. REFERENCE PLAT DATED 4-18-96, AND RECORDED IN PLAT BOOK "141" PAGE 7A, AT THE HORRY COUNTY ROD OFFICE.
4. REFERENCE PLAT REVISED MAY 28, 1974, AND RECORDED IN PLAT BOOK "57", PAGE 84, AT THE HORRY COUNTY ROD OFFICE.
5. DEED BOOK 4063, PAGE 1.

GRAPHIC SCALE
0 30' 60'
(in feet)
1" = 30'

CONTOUR INTERVAL: 1.0'

CERTIFICATION NOTE

I HEREBY STATE TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF THE SURVEY SHOWN HEREON WAS MADE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARDS OF PRACTICE MANUAL FOR SURVEYING IN SOUTH CAROLINA, AND MEETS OR EXCEEDS THE REQUIREMENTS FOR A TOPOGRAPHIC SURVEY AS SPECIFIED THEREIN.

JOSEPH L. MCINTYRE, P.L.S. S.C. REG. # 15513
2040 SAVAGE ROAD, CHARLESTON , S.C. 29407 (843) 769-7378

GEL Engineering LLC
2040 Savage Road
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TOPOGRAPHIC SURVEY
HORRY-GEORGETOWN COUNTY TECH - BLDG. 1400

PREPARED FOR
PMH CROFT

LOCATED NEAR CONWAY
HORRY COUNTY, SOUTH CAROLINA

GEL ENGINEERING, LLC No.C02649 — SOUTH CAROLINA — CERTIFICATE OF AUTHORIZATION

DATE SURVEYED	MAY-JUNE 2025
LAST REVISED	JUNE 10, 2025
DRAWING FILENAME	PMHC00125-PRELIM.dwg
DRAWN/CHECKED	MGG/JLM
PROJECT NUMBER	PMHC00125
REFERENCE	
SHEET NUMBER	1
	OF 1

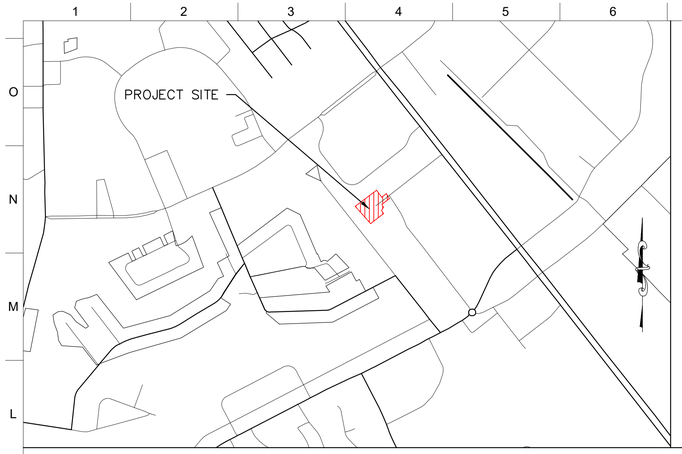
THIS IS NOT A VALID, LEGAL COPY OF THIS DOCUMENT UNLESS BEARING AN ORIGINAL, SIGNATURE AND A RAISED, EMBOSSED SEAL OF THE ENGINEER OR SURVEYOR.

m:\clientfiles\gl\pmhc - pmh croft\2025 projects\pmhc00125 - survey-hgtc-building 1400-conway\dwg\pmhc00125-prelim.dwg - SHEET 1 (Plotted: 6/10/2025 3:12:07 PM)

HGTC AUTOMOTIVE TECHNOLOGY BUILDING 1400

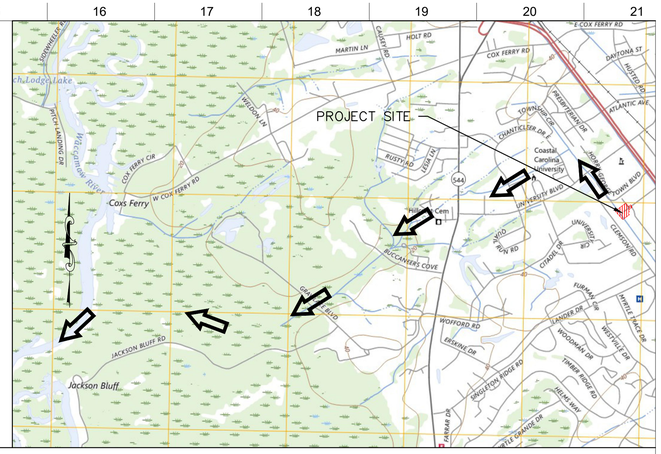
300 VICTORY LN, CONWAY, SC 29526

TMS# 151-00-02-058 PIN# 383-10-01-0021



LOCATION MAP

SCALE: 1" = 1,000'



QUAD MAP

SCALE: 1" = 2,000'

CIVIL ABBREVIATIONS

BM	BENCHMARK
BMP	EROSION CONTROL BEST MANAGEMENT PRACTICES
BTTM	BOTTOM
BW	BOTH WAYS
CB	CATCH BASIN
CGP	NPDES CONSTRUCTION GENERAL PERMIT SCR 100000
CI	CURB INLET
CI	CAST IRON
CIP	CAST IRON PIPE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CONC	CONCRETE
CY	CUBIC YARDS
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DS	DOWNSPOUT
EL	ELEVATION
EW	EACH WAY
EXST	EXISTING
FFE	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
FH	FIRE HYDRANT
FIN	FINISHED
FM	FORCE MAIN
GI	GRATE INLET
HDPE	HIGH DENSITY POLYETHYLENE
IAW	IN ACCORDANCE WITH
IE	INVERT ELEVATION
JB	JUNCTION BOX
LF	LINEAR FEET
LP	LIGHT POLE
MATL	MATERIAL
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
NIC	NOT IN CONTRACT
NOI	NOTICE OF INTENT
NOT	NOTICE OF TERMINATION
NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
NTS	NOT TO SCALE
OC	ON CENTER
ODSA	OPERATOR OF DAY TO DAY SITE ACTIVITIES
PC	POINT OF CURVATURE
PCC	PORTLAND CEMENT CONCRETE
PP	POWER POLE
PT	POINT OF TANGENT
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
RAD	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REQD	REQUIRED
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
R/W	RIGHT OF WAY
SABC	STABILIZED AGGREGATE BASE COURSE
SB	SILT BARRIER
SCDES	SOUTH CAROLINA DEPT OF ENVIRONMENTAL SERVICES
SCDOT	SOUTH CAROLINA DEPT OF TRANSPORTATION
SD	STORM DRAINAGE
SF	SQUARE FEET
SS	SANITARY SEWER SERVICE
STA	STATION
SWPPP	STORM WATER POLLUTION PREVENTION PLAN
TBM	TEMPORARY BENCH MARK
TC	TOP OF CURB
TG	TOP OF GUTTER
TP	TOP OF PAVEMENT
TYP	TYPICAL
VC	VITRIFIED CLAY
W	WATER
W/	WITH
WS	WATER SERVICE
WV	WATER VALVE

ARCHAEOLOGICAL NOTICE TO CONTRACTOR:

1. IN THE EVENT THAT ANY HISTORIC OR CULTURAL RESOURCES AND/OR ARCHAEOLOGICAL MATERIALS ARE FOUND DURING THE COURSE OF WORK, THE APPLICANT MUST NOTIFY THE STATE HISTORIC PRESERVATION OFFICE AND THE SOUTH CAROLINA INSTITUTE OF ARCHAEOLOGY AND ANTHROPOLOGY. HISTORIC OR CULTURAL RESOURCES CONSIST OF THOSE SITES LISTED IN THE NATIONAL REGISTER OF HISTORIC PLACES AND THOSE SITES THAT ARE ELIGIBLE FOR THE NATIONAL REGISTER. ARCHAEOLOGICAL MATERIALS CONSIST OF ANY ITEMS, FIFTY YEARS OLD OR OLDER, WHICH WERE MADE OR USED BY MAN. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO, STONE PROJECTILE POINTS (ARROWHEADS), CERAMIC SHARDS, BRICKS, WORKED WOOD, BONE AND STONE, METAL AND GLASS OBJECTS, AND HUMAN SKELETAL MATERIALS.
2. IF UNANTICIPATED CULTURAL MATERIALS (E.G., LARGE, INTACT ARTIFACTS OR ANIMAL BONES; LARGE CLUSTERS OF ARTIFACTS OR ANIMAL BONES; LARGE SOILS STAINS OR PATTERNS OF SOIL STAINS; BURIED BRICK OR STONE STRUCTURES; CLUSTERS OF BRICK OR STONE) OR HUMAN SKELETAL REMAINS ARE DISCOVERED PRIOR TO OR DURING LAND ALTERING OR CONSTRUCTION ACTIVITIES, THEN THE APPLICANT WILL TEMPORARILY HALT ANY ACTIVITIES AND IMMEDIATELY NOTIFY SCDHEC–OCRM AND THE SHPO OF THE LATE DISCOVERIES.
3. IF HUMAN REMAINS ARE DISCOVERED ALL GROUND DISTURBANCE IN THE AREA WILL HALT IMMEDIATELY AND A 50–FOOT BUFFER WILL BE ESTABLISHED AROUND THE DISCOVERY. THE APPLICANT SHALL NOTIFY THE COUNTY CORONER, SCDHEC–OCRM, THE SHPO, AND THE STATE ARCHAEOLOGIST WITHIN TWO (2) BUSINESS DAYS OF THE DISCOVERY. EACH OF THESE PARTIES HAS TWO (2) BUSINESS DAYS TO RESPOND. THE PARTIES SHALL ATTEMPT TO REACH A CONSENSUS ON THE TREATMENT OF THE HUMAN REMAINS. IF A CONSENSUS IS REACHED, GROUND DISTURBING ACTIVITIES MAY RESUME ONCE THE CONDITIONS OF THE AGREEMENT ARE MET. NO PHOTOGRAPHS ARE TO BE TAKEN OF THE BURIAL, HUMAN REMAINS AND/OR FUNERARY OBJECTS AT ANY TIME. HUMAN REMAINS AND BURIAL GROUNDS ARE ALSO SUBJECT TO SOUTH CAROLINA LAW THAT ADDRESSES ABANDONED CEMETERIES AND BURIALS, INCLUDING BUT NOT LIMITED TO S.C. CODE ANN. §§ 27–43–10 TO 27–43–30, 16–17–600, AND 61–19–29.
4. AGENCY CONTACT INFORMATION IS AS FOLLOWS:
   SCDHEC–OCRM COASTAL ZONE CONSISTENCY: 843–953–0200
   SCDAH STATE HISTORIC PRESERVATION OFFICE (SHPO): 803–896–6196
   SCIAA / STATE ARCHAEOLOGIST: 803–576–6560
   HORRY COUNTY CORONER'S OFFICE: 843–915–5110

GENERAL NOTES:

1. THE EROSION CONTROL PLANS CONTAINED HERE–IN ARE PART OF A LARGER COMPREHENSIVE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). ALL CONTRACTORS/SUBCONTRACTORS/PERSONS THAT WILL BE ENGAGED IN LAND DISTURBING ACTIVITIES SHALL BECOME FAMILIAR WITH AND COMPLY WITH ALL EROSION AND SEDIMENT CONTROL AND STORMWATER POLLUTION PREVENTION REQUIREMENTS CONTAINED THROUGHOUT THE SWPPP, DRAWINGS, SPECIFICATIONS AND PERMITS.
2. ALL CONTRACTORS SHALL VISIT THE SITE PRIOR TO BIDDING TO DETERMINE THE EXTENT OF THE PROJECT.
3. TOPOGRAPHIC AND BOUNDARY INFORMATION BY GEL ENGINEERING LLC, NOT VERIFIED BY ADC ENGINEERING, INC.
4. HORIZONTAL COORDINATES ARE BASED ON SC STATE PLANE COORDINATES NAD '83. VERTICAL DATUM IS BASED ON NAVD 88.
5. ALL PROJECT STAKEOUT, INCLUDING RELOCATION OF PROJECT BENCHMARKS AS NECESSARY, SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR TO BE PAID FOR BY THE CONTRACTOR. FOR STAKEOUT, DO NOT RELY SOLELY ON THE PHYSICAL SCALE AS SHOWN IN DRAWINGS. REFER TO THE GIVEN DIMENSIONS, SYMBOL LEGEND, KEYNOTES, AND REFERENCED DETAILS FOR CORRECT STAKEOUT.
6. THE EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE BASED UPON AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES PRIOR TO BEGINNING ANY WORK. IF UTILITIES OTHER THAN THOSE SHOWN HEREON ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY AND TAKE APPROPRIATE MEASURES TO PROTECT THE LINE(S) AND ENSURE CONTINUED SERVICE. DAMAGE CAUSED TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL VERIFY THE CONNECTION POINTS OF NEW UTILITIES TO EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
7. OFFSITE BORROW NECESSARY FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE PROVIDED BY THE CONTRACTOR FROM SOURCES DEVELOPED BY THE CONTRACTOR.
8. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF UNSUITABLE MATERIAL IS DISCOVERED PRIOR TO BEGINNING ANY REMOVAL OPERATION.
9. THE CONTRACTOR SHALL PLACE 4" OF TOPSOIL IN ALL DISTURBED AREAS NOT TO BE PAVED. THE CONTRACTOR SHALL ALSO PROVIDE TEMPORARY AND PERMANENT SEEDING IN ALL AREAS INSIDE OR OUTSIDE THE LIMITS OF CONSTRUCTION THAT ARE DISTURBED BY THE CONTRACTOR'S OPERATIONS.
10. ALL TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE SOUTH CAROLINA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, BOTH CURRENT EDITIONS.
11. CONTRACTOR SHALL GRADE ALL AREAS TO DRAIN FOR POSITIVE FLOW PRIOR TO FINAL APPROVAL.
12. THE DESIGN ADEQUACY AND SAFETY OF ALL BRACING, SHORING AND TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
13. THE GENERAL CONTRACTOR SHALL REVIEW AND STAMP APPROVED ANY AND ALL SHOP DRAWINGS AND SUBMITTALS PRIOR TO SUBMITTING TO THE ENGINEER FOR REVIEW.
14. IT IS THE RESPONSIBILITY OF THE OWNER TO OBTAIN THE SERVICES OF A QUALIFIED GEOTECHNICAL ENGINEER WHO SHALL PERFORM INVESTIGATIONS TO VERIFY THAT THE SOIL CONDITIONS ARE AT LEAST THAT WHICH ARE STATED HEREIN.
15. ALL WATER UTILITY WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF CONWAY. WHERE ANY DISCREPANCIES EXIST BETWEEN THESE DOCUMENTS AND THE CITY OF CONWAY REQUIREMENTS, THE REQUIREMENTS OF THE CITY OF CONWAY SHALL BE ADHERED TO.
16. ALL SEWER UTILITY WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF GRAND STRAND WATER & SEWER AUTHORITY (GSWSA). WHERE DISCREPANCIES EXISTING BETWEEN THESE DOCUMENTS AND GSWSA REQUIREMENTS, THE REQUIREMENTS OF GSWSA SHALL BE ADHERED TO.
17. IN PERFORMING CONSTRUCTION OBSERVATION VISITS TO THE JOB SITE, THE ENGINEER SHALL HAVE NO CONTROL OVER NOR RESPONSIBILITY FOR THE CONTRACTOR'S MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES IN PERFORMING THE WORK.
18. THE CONTRACTOR'S MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES IN PERFORMING THE WORK IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR, WHO IS ALSO RESPONSIBLE FOR COMPLYING WITH ALL HEALTH AND SAFETY PRECAUTIONS AS REQUIRED BY ANY REGULATORY AGENCY.
19. IT IS THE CONTRACTORS RESPONSIBILITY FOR DESIGN, ADEQUACY AND IMPLEMENTATION OF ALL DEWATERING. ALL DEWATERING ACTIVITIES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STORMWATER POLLUTION PREVENTION PLAN.

PROJECT INFORMATION

DEVELOPMENT DATA	
PROJECT NAME	HGTC AUTOMOTIVE TECHNOLOGY BUILDING, BUILDING 1400
DEVELOPMENT DESCRIPTION	THE PROJECT INCLUDES: CONSTRUCTION OF AN AUTOMOTIVE BUILDING ADDITION WITH ASSOCIATED PARKING & UTILITIES.
PROJECT OWNER	HORRY GEORGETOWN TECHNICAL COLLEGE 704-940-8669
PROJECT ARCHITECT	PMH CROFT (CHRIS FORD)
PROJECT CIVIL ENGINEER	ADC ENGINEERING, INC. 1226 YEAMANS HALL ROAD HANAHAN, SC 29410 POINT OF CONTACT: RYNE HARDWICK
PROPERTY INFORMATION	
TMS	151-00-02-058
ADDRESS	300 VICTORY LN, CONWAY, SC 29526
STREET CLASSIFICATION(S)	
VICTORY LANE	PRIVATE ROAD
FLOOD ZONE STATEMENT	FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP (45051C0542K) INDICATES THAT THIS PROPERTY IS IN FLOOD ZONE 'X' (AREA OUTSIDE 500 YEAR FLOODPLAIN).
WETLAND STATUS	THERE ARE NO KNOWN WETLANDS WITHIN THE PROJECT LIMITS

ZONING INFORMATION	
MUNICIPALITY	CITY OF CONWAY
EXISTING ZONING	IN - INSTITUTIONAL
PROPOSED ZONING	SAME
ADJACENT ZONING	
NORTH	IN (INSTITUTIONAL
EAST	IN (INSTITUTIONAL
SOUTH	IN (INSTITUTIONAL
WEST	R1 (LOW DENSITY RESIDENTIAL)
HEIGHT LIMITATION	80'
HISTORIC DISTRICT	N/A
ZONING CONTACT	KIM WILKERSON (843-488-7618)

SETBACKS/BUFFERS	REQUIRED	PROVIDED
NORTH	20'	>20'
SOUTH	15'	>15'
EAST	15'	>15'
WEST	15'	>15'

LOT COVERAGE				
TOTAL LOT AREA	61,393	SF	1.41 ACRES	
DISTURBED AREA	20,244	SF	0.46 ACRES	
LOT COVERAGE BY USE				
BUILDING	9,020	SF	0.21 ACRES	15%
PVMT/IMPERV AREA	18,814	SF	0.43 ACRES	30%
LANDSCAPE AREA	33,559	SF	0.77 ACRES	55%
POND	0	SF	0.00 ACRES	0%
SUBTOTAL	61,393	SF	1.41 ACRES	100%

UTILITY INFORMATION	
ELECTRIC AVAILABILITY	SANTEE COOPER
GAS AVAILABILITY	DOMINION ENERGY
SEWER AVAILABILITY	GRAND STRAND WATER & SEWER
WATER AVAILABILITY	CITY OF CONWAY

PERMIT APPROVALS

REVIEW	SUBMITTAL DATE	APPROVAL DATE	STATUS
CITY OF CONWAY WATER (SERVICE-ONLY)	7/24/2025	8/1/2025	APPROVED
GRAND STRAND WATER & SEWER (SEWER, SERVICE ONLY)	7/24/2025	9/22/2025	APPROVED
SCDES AUTO-COVERAGE NOTIFICATION	7/24/2025	N/A	N/A

LIST OF DRAWINGS

SHEET	TITLE	ISSUED	REVISED
C001	CIVIL NOTES & ABBREVIATIONS	7/24/2025	1, 2, 3
C002	GEOGRAPHICAL SURVEY BY GEL ENGINEERING LLC	6/10/2025	
C003	FIRE PROTECTION SITE PLAN	7/24/2025	3
C100	EXISTING SITE & DEMOLITION PLAN	7/24/2025	1, 3
C200	SITE PLAN	7/24/2025	1, 3
C300	GRADING & STORM DRAINAGE PLAN	7/24/2025	1, 3
C400	SITE UTILITY PLAN	7/24/2025	1, 2, 3
C620	CIVIL DETAILS - SITE	7/24/2025	3
C630	CIVIL DETAILS - STORM DRAINAGE	7/24/2025	3
C640	CIVIL DETAILS - UTILITIES	7/24/2025	3
C700	SWPPP PLAN	7/24/2025	1, 3
C710	CIVIL DETAILS - SWPPP	7/24/2025	3
C711	CIVIL DETAILS - SWPPP	7/24/2025	3
C720	SWPPP DETAILS, NOTES AND CLOSEOUT	7/24/2025	3

1 REVISION #1 – 08/26/2025 – REVISIONS TO ADDRESS PERMIT COMMENTS FROM GSWSA.

2 REVISION #2 – 09/15/2025 – REVISIONS TO ADDRESS PERMIT COMMENTS FROM GSWSA.

3 BID DRAWINGS – 09/24/2025 – CLOUDS FROM CIVIL PERMITTING REMOVED & ALL SHEETS RE-PLOTTED FOR BIDDING.

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1300 Professional Drive, Suite 201
Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
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1226 YEAMANS HALL ROAD
HANAHAN, SC 29410
843-866-8181
ADCENGINEERING.COM
ADC PROJECT # 25079.00

SOUTH CAROLINA PROFESSIONAL ENGINEER ADC ENGINEERING INC. No. 00253 STATE OF AUTHORITY

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 35165 RYNE WALKER HARDWICK 09/24/25

OWNER

HORRY GEORGETOWN TECHNICAL COLLEGE
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

HORRY GEORGETOWN TECHNICAL COLLEGE

PROJECT NAME

H59-N302-CB
HGTC AUTOMOTIVE TECHNOLOGY BUILDING BUILDING 1400

Conway, SC 29526

No.	Date	Description
3	09/24/25	Bid Drawings
2	09/15/25	Permit Revision #2
1	08/26/25	Permit Revision #1
	07/24/25	Construction Documents
ISSUANCE		

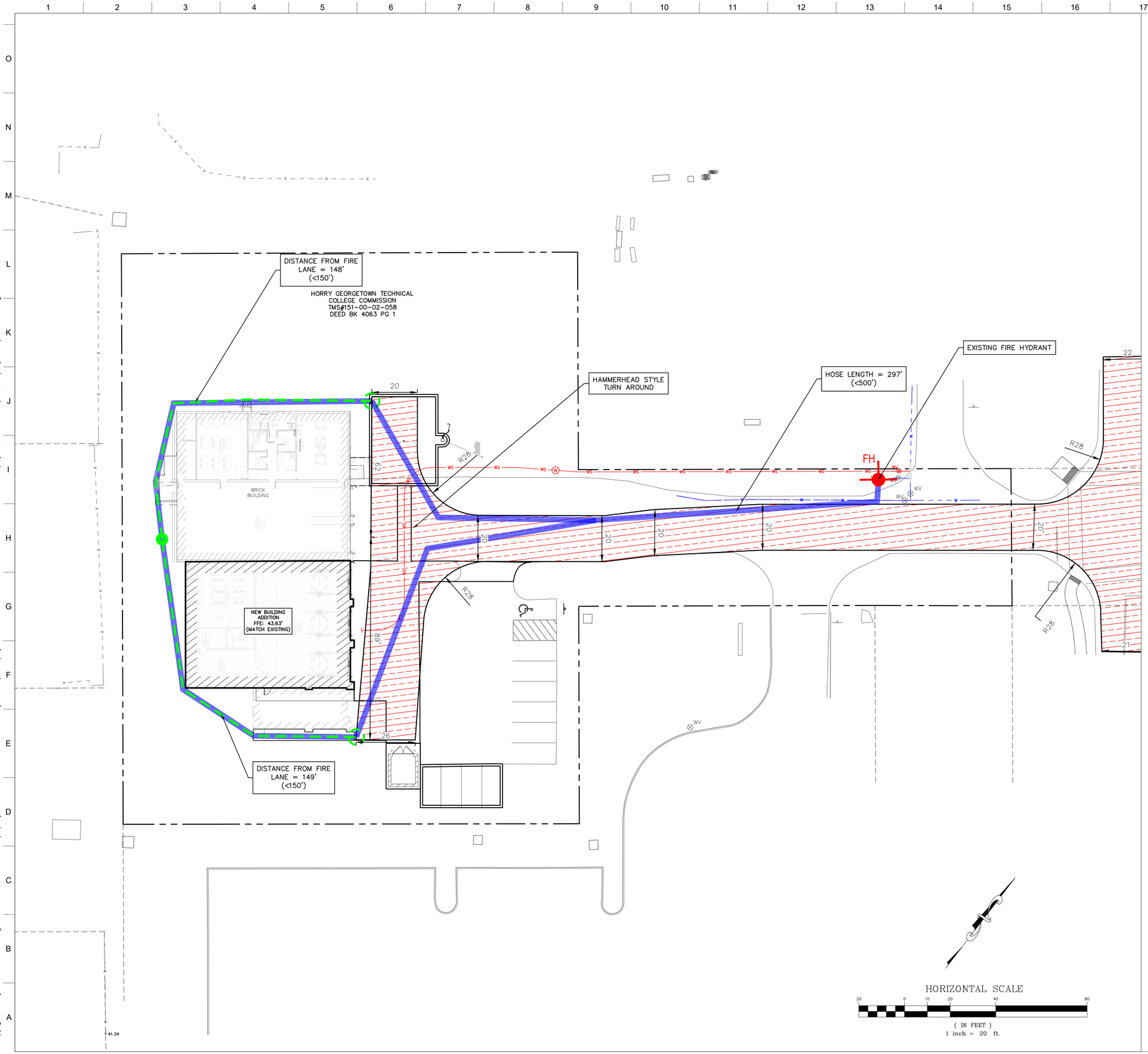
PROJECT NUMBER
2025-2006 (ADC#25079)

DRAWN: JRZ
CHECKED: RWH

SHEET TITLE
CIVIL NOTES & ABBREVIATIONS

SHEET NO.
C001

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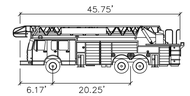


FIRE PROTECTION PLAN LEGEND:

- FH — EXSISTING FIRE HYDRANT
- 10W — PROPOSED WATER LINE & SIZE
- 10W — EXISTING WATER LINE & SIZE
- START (FIRE HYDRANT) FH — END (FACE OF BUILDING) — HOSE LINE ROUTE FROM HYDRANT – HOSE LINE DISTANCE FROM A HYDRANT TO ALL POINTS ON THE BUILDING IS LESS THAN 500' IAW IFC 2021, SECTION 507.5.1.
- START (EDGE OF FIRE LANE) — END (FACE OF BUILDING) — DISTANCE FROM FIRE APPARATUS ROAD TO MOST REMOTE POINT ON THE BUILDING. (<150' PER IFC SECTION 501)
- FIRE APPARATUS ACCESS ROAD

HYDRANT FLOW TEST

DATE	07/03/2025
PERSONNEL	BRIAN KEITH – CITY OF CONWAY
TEST HYDRANT	E4-171
FLOW HYDRANT	R6-230
STATIC PRESSURE	46 PSI
RESIDUAL PRESSURE	40 PSI
FLOW RATE	1,060 GPM
FLOW @ XX PSI	2,339 GPM



FIRE TRUCK AERIAL

	FEET
WIDTH	: 8.00
TRACK	: 8.00
LOCK TO LOCK TIME	: 6.0
STEERING ANGLE	: 40.0

FIRE PROTECTION PLAN NOTES:

BUILDING INFORMATION:

1. CONSTRUCTION TYPE VB

   TOTAL AREA = 9,931 SF
   EXSISTING BLDG = 5,145 SF
   BLDG ADDITION = 4,786 SF

   1 STORIES ABOVE GRADE

   ROOF HEIGHT ABOVE FINISHED FLOOR = 23' 7" TO TALLEST PARAPET

2. **THE BUILDING WILL NOT INCLUDE AN AUTOMATIC SPRINKLER SYSTEM.**
3. NO FIRE WALLS WITHOUT OPENINGS ARE PROPOSED WITHIN THE NEW BUILDING.

HYDRANTS:

4. ONE EXISTING PUBLIC FIRE HYDRANT IS SHOWN ON THIS PLAN IN THE VICINITY OF THE BUILDING.

   HOSE LINE DISTANCE FROM A HYDRANT TO ALL POINTS ON THE BUILDING IS LESS THAN 500' IAW IFC 2021, SECTION 507.5.1.

5. AVAILABLE FIRE FLOW:

   SEE ABOVE TABLE

6. REQUIRED FIRE FLOW IAW SCDES R61-68:

   500 GPM @ 20 PSI

7. THERE ARE NO NEW FIRE HYDRANTS ASSOCIATED WITH THIS PROJECT.

ACCESS:

8. EXISTING AND PROPOSED FIRE APPARATUS ACCESS ROADS ARE SHOWN ON THIS PLAN. ROAD DIMENSIONS ARE IAW IFC 2021, SECTION 503.2.1.
9. FIRE APPARATUS ACCESS ROADS ARE SHOWN AND THE FIRE PERSONNEL PATH TO THE MOST REMOTE POINTS ON THE BUILDING ARE SHOWN.

   HOSE LINE DISTANCES FROM A FIRE APPARATUS ACCESS ROAD TO ALL PORTIONS OF THE FACILITY AND ALL PORTIONS OF THE EXTERIOR WALLS OF THE FIRST STORY OF THE BUILDING ARE REQUIRED TO BE LESS THAN 150' IAW IFC 2021, SECTION 503.1.1.

10. THERE ARE NO SIGNIFICANT GRADE CHANGES ALONG THE FIRE APPARATUS ACCESS ROADS.
11. A HAMMERHEAD STYLE TURNAROUND IS SHOWN ON THIS PLAN IAW IFC 2021, FIGURE D103.1.
12. NO FIRE LANE STRIPING OR SIGNAGE IS ANTICIPATED.

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ADC ENGINEERING
1226 YEAMANS HALL ROAD
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843-566-6161
ADCENGINEERING.COM
ADC PROJECT # 25079.00

SOUTH CAROLINA — ADC ENGINEERING INC. No. 00253 — CERTIFICATE OF AUTHORITY

SOUTH CAROLINA PROFESSIONAL ENGINEER — No. 35165 — RYNE WALKER HARDWICK — 09/24/25

OWNER

HORRY GEORGETOWN TECHNICAL COLLEGE
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

HORRY GEORGETOWN TECHNICAL COLLEGE

PROJECT NAME

H59-N302-CB
HGTC AUTOMOTIVE TECHNOLOGY BUILDING
BUILDING 1400

Conway, SC 29526

No.	Date	Description
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	07/24/25	Construction Documents
ISSUANCE		

PROJECT NUMBER
2025-2006 (ADC#25079)

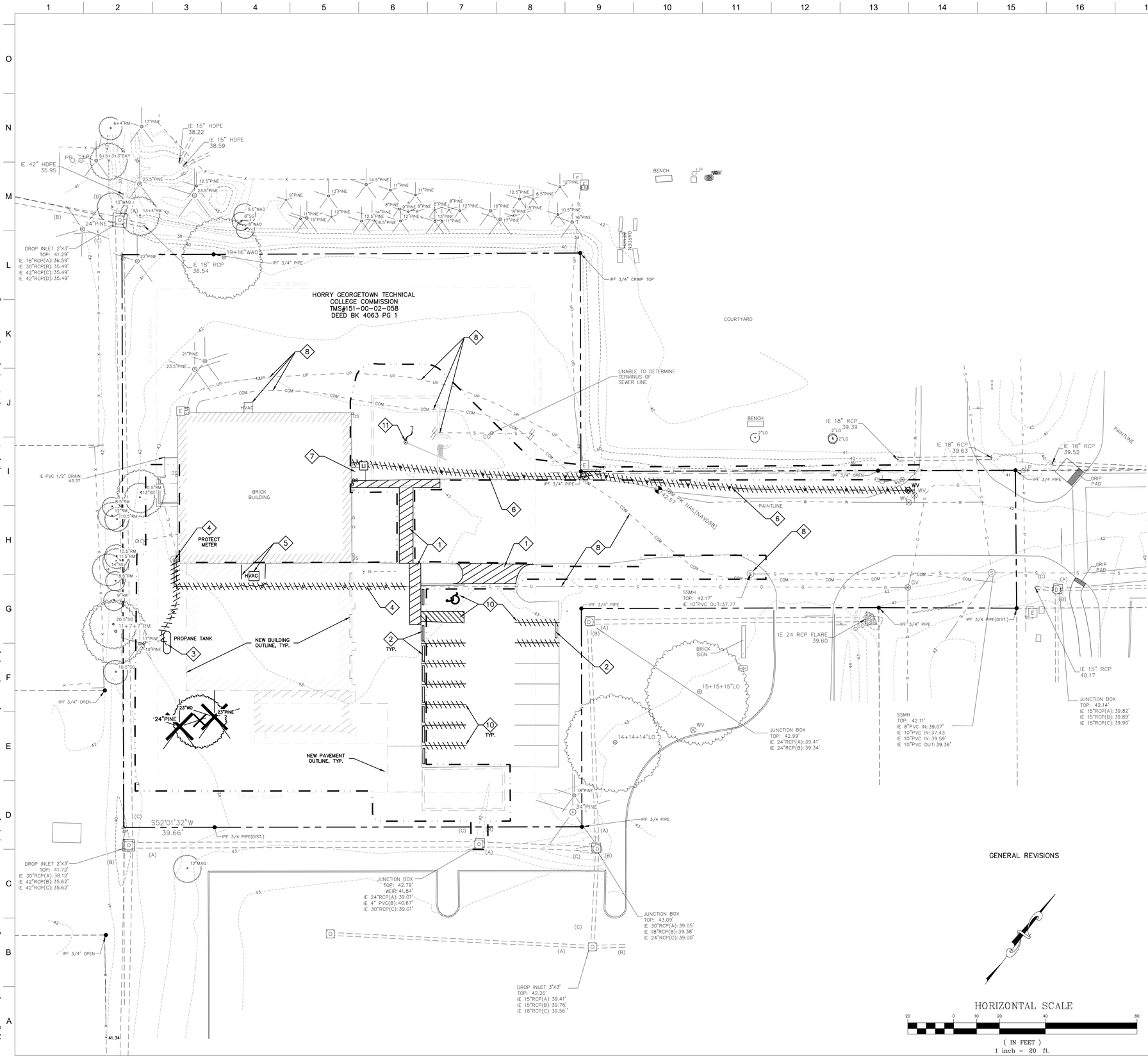
DRAWN: JRZ
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SHEET TITLE
FIRE PROTECTION SITE PLAN

SHEET NO.
C003

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GENERAL NOTES:

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2. HORIZONTAL COORDINATES ARE BASED ON SC STATE PLANE COORDINATES NAD '83. VERTICAL DATUM IS BASED ON NAVD 88.
3. CONTRACTOR IS RESPONSIBLE FOR ALL WORK SHOWN, UNLESS SPECIFICALLY INDICATED OTHERWISE.
4. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO DETERMINE THE EXTENT OF THE PROJECT.
5. CONTRACTOR SHALL CONTACT PALMETTO UTILITY LOCATION SERVICE AT 1-888-721-7877 PRIOR TO ANY WORK. CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING AND PROTECTING ALL UTILITIES. CONTACT THE ENGINEER IN THE EVENT THAT UTILITIES CONFLICT WITH NEW FACILITIES.
6. ALL PROJECT STAKEOUT SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR TO BE PAID FOR BY THE CONTRACTOR. FOR STAKEOUT, DO NOT RELY SOLELY ON THE PHYSICAL SCALE AS SHOWN IN DRAWINGS. REFER TO THE GIVEN DIMENSIONS, SYMBOL LEGEND, KEYNOTES, AND REFERENCED DETAILS FOR CORRECT STAKEOUT.
7. ALL CONTRACTORS/SUBCONTRACTORS/PERSON THAT WILL BE ENGAGED IN LAND DISTURBING ACTIVITIES SHALL COMPLY WITH ALL EROSION CONTROL AND STORMWATER POLLUTION PREVENTION REQUIREMENTS CONTAINED THROUGHOUT THE DRAWINGS, SPECIFICATIONS AND PERMITS.

KEYNOTES:

1. DEMOLISH PAVEMENT TO HATCHED LIMITS.
2. DEMOLISH EXISTING WHEEL STOP.
3. REMOVE AND DISPOSE OF EXISTING ABOVE-GROUND GAS TANK IAW MECHANICAL & PLUMBING DRAWINGS.
4. RELOCATE EXISTING GAS SERVICE AND METER IAW PLUMBING PLANS AND GAS UTILITY PROVIDER. COORDINATE ALL WORK WITH GAS UTILITY PRIOR TO ADJUSTING THE SERVICE
5. DEMOLISH OR RELOCATE EXISTING HVAC UNIT IAW MECHANICAL PLANS. DEMOLISH EXISTING FENCE/ENCLOSURE AROUND UNIT.
6. EXISTING WATER METER AND SERVICE SHALL BE PROTECTED TO REMAIN DURING THE FULL LENGTH OF CONSTRUCTION, UNTIL THE NEW WATER SERVICE IS ACTIVE. ONCE NEW SERVICE (SEE SHEET C400) IS INSTALLED AND ACTIVE, DISCONNECT OLD WATER SERVICE, CUT, CAP, AND ABANDON IN PLACE IAW CITY OF CONWAY REQUIREMENTS. PROTECT EXISTING UTILITY TO REMAIN.
7. DEMOLISH EXISTING ENTRY CONCRETE & CANOPY WITH THE ARCHITECTURAL PLANS.
8. PROTECT EXISTING UTILITY TO REMAIN.
9. DEMOLISH EXISTING ENTRY CONCRETE AND CANOPY WITH THE ARCHITECTURAL PLANS.
10. DEMOLISH OR BLACK-OUT EXISTING PARKING LOT STRIPING. COORDINATE TIMING OF THIS WORK WITH THE OWNER, AS SPACES MAY NEED TO REMAIN ACTIVE DURING CONSTRUCTION.
11. RELOCATE AND REINSTALL EXISTING FLAG POLE IAW SHEET C200.

EXISTING SITE LEGEND

- WATER LINE W/ VALVE
- WATER SERVICE
- SANITARY SEWER PIPE
- STORM DRAIN
- POWER LINE (OVERHEAD)
- GAS LINE
- SIZE/TYPE — EXISTING TREE
- POWER POLE, GUY WIRE
- ELECTRICAL BOX, HAND HOLE
- LIGHT POLE
- SANITARY SEWER MANHOLE/SEWER CLEANOUT
- STORM DRAINAGE MANHOLE
- CATCH BASIN
- TYPE 9 DRAINAGE STRUCTURE
- FIRE HYDRANT
- WATER VAULT
- AIR CONDITION UNIT
- GAS METER
- FENCE
- SIGN
- CONTOUR
- SPOT ELEVATION
- PROPERTY LINE
- LIMITS OF CONSTRUCTION/DISTURBANCE

EXISTING DEMO LEGEND

- ITEMS TO BE DEMOLISHED
- SIZE/TYPE — TREE TO BE DEMOLISHED
- LINEAR ITEM TO BE DEMOLISHED

GENERAL REVISIONS

HORIZONTAL SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

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09/24/25
RYNE WALKER HARWICK

OWNER

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2050 HIGHWAY 501 EAST
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HORRY GEORGETOWN TECHNICAL COLLEGE

PROJECT NAME

H59-N302-CB
HGTC AUTOMOTIVE TECHNOLOGY BUILDING
BUILDING 1400
Conway, SC 29526

No.	Date	Description
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1	08/26/25	Permit Revision #1
	07/24/25	Construction Documents
ISSUANCE		

PROJECT NUMBER
2025-2006 (ADC#25079)

DRAWN: JRZ
CHECKED: RWH

SHEET TITLE
EXISTING SITE & DEMOLITION PLAN

SHEET NO.
C-100

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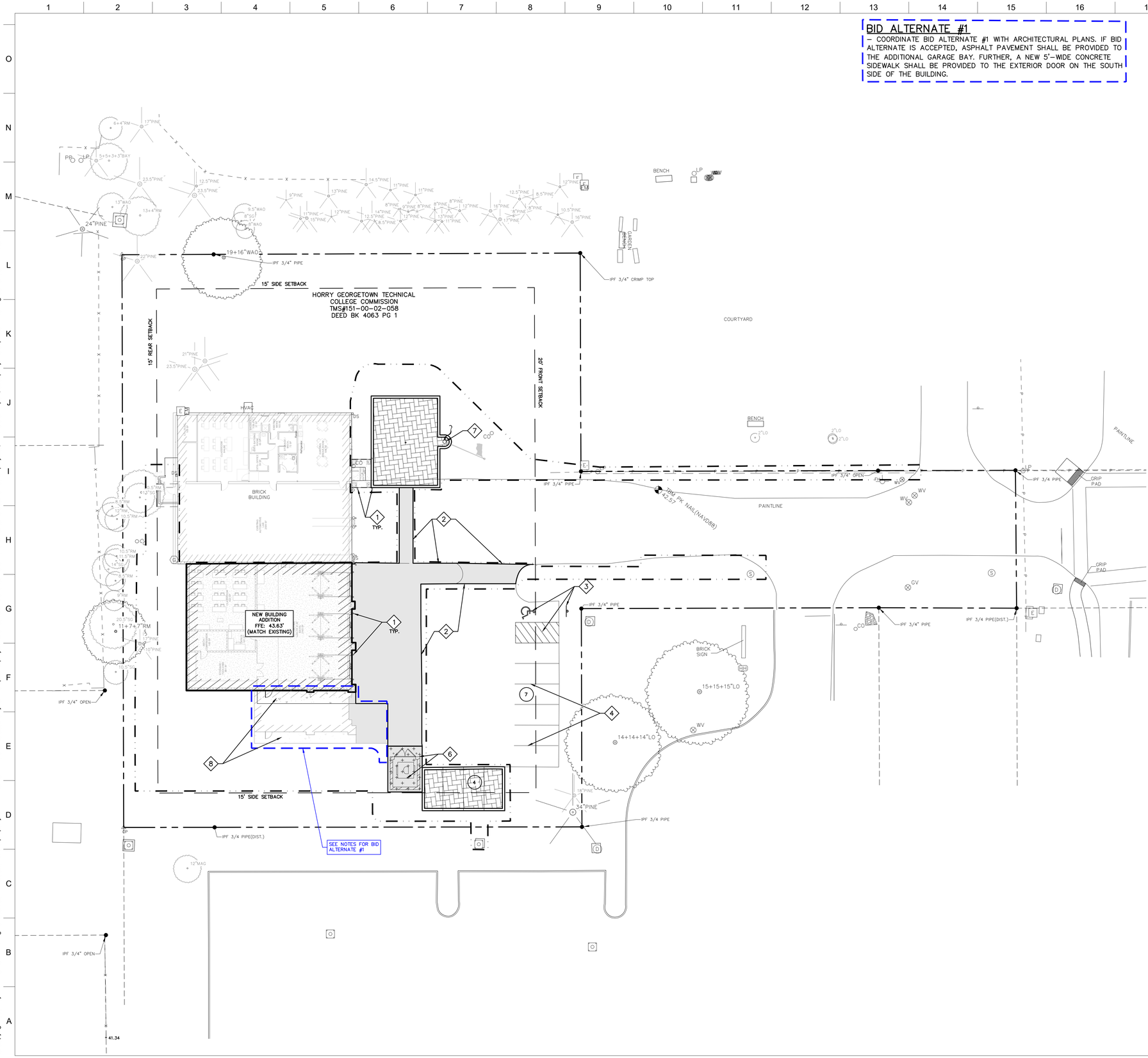
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GENERAL NOTES:

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SITE DIMENSION NOTES:

1. ALL DIMENSION ARE TO FRONT FACE OF CURB/EDGE OF PAVEMENT UNLESS SHOWN OTHERWISE.
2. ALL BUILDING COORDINATES ARE TO OUTSIDE CORNER FACE OF BUILDING UNLESS NOTED OTHERWISE. LAYOUT SHALL BE BASED ON THE CONTROL POINTS SHOWN.
3. ALL BUILDING LAYOUTS SHALL BE CHECKED WITH THE ARCHITECTURAL FLOOR PLANS PRIOR TO STAKEOUT.
4. ALL CURBS SHALL HAVE A 4' MINIMUM RADIUS UNLESS SHOWN OTHERWISE.

KEYNOTES: ◇

1. INSTALL CONCRETE BOLLARD IAW ARCHITECTURAL PLANS.
2. TIE IN PAVEMENT TO EXISTING PAVEMENT IAW DETAIL D/C620.
3. RE–STRIPE EXISTING PARKING SPACES FOR NEW ADA ACCESSIBLE PARKING SPACE AND AISLE. INSTALL NEW ADA ACCESSIBLE SIGNAGE IAW DETAIL F/C620.
4. INSTALL NEW 4" WHITE PARKING SPACE STRIPING OVER EXISTING STRIPING, IN THE SAME LOCATION.
5. INSTALL GRAVEL FIRE LANE TURNAROUND AREA IAW DETAIL K/C620.
6. INSTALL NEW DUMPSTER ENCLOSURE IAW ARCHITECTURAL PLANS.
7. RELOCATE & REINSTALL EXISTING FLAG POLE TO LOCATION SHOWN.
8. IF BID ALTERNATE #1 IS ACCEPTED, CONTRACTOR SHALL NOT INSTALL CONCRETE SIDEWALK THAT FALLS WITHIN THE BUILDING FOOTPRINT BUT SHOULD INSTALL THE CONCRETE SIDEWALK TO THE SOUTHEAST OF THE ADDITION.

CIVIL LEGEND – SITE

- STANDARD DUTY ASPHALT PAVEMENT – INSTALL IAW DETAIL A/C620.
- HEAVY DUTY CONCRETE PAVEMENT – INSTALL IAW DETAIL B/C620.
- PERMEABLE PAVERS – INSTALL IAW DETAIL A/C621.
- CONCRETE PAVEMENT/SIDEWALK – INSTALL IAW DETAIL C/C620.
- ACCESSIBLE PARKING SPACE AND AISLE – IAW DETAIL F/C620.
- (25) PARKING SPACES – STRIPE WITH 4" SINGLE WHITE SOLID LINE
- NEW TRAFFIC SIGN – INSTALL PER PLAN AND IAW DETAILS H/C620.
- LIMITS OF CONSTRUCTION/LIMITS OF DISTURBANCE

GENERAL REVISIONS

HORIZONTAL SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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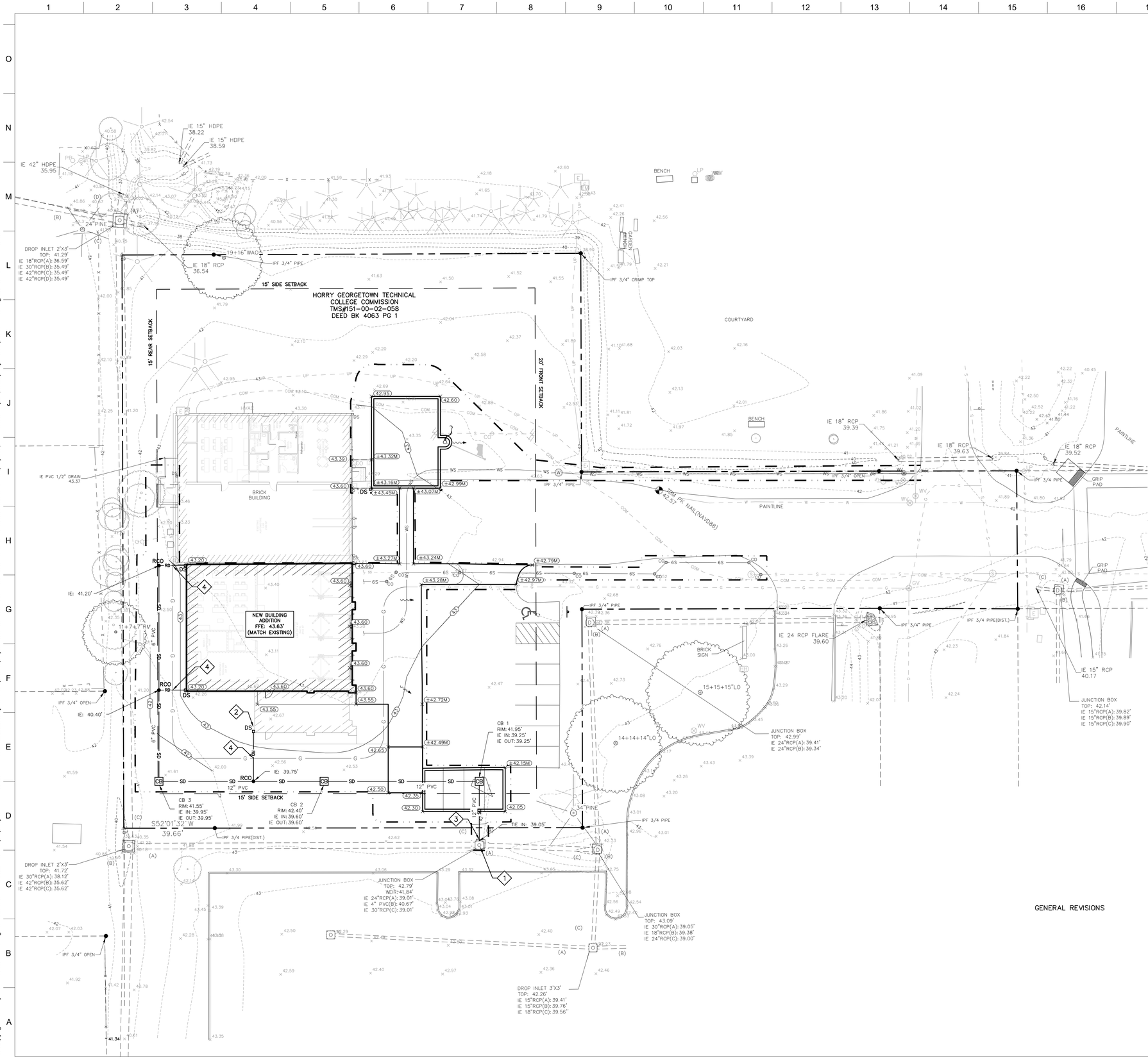
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	07/24/25	Construction Documents
ISSUANCE		

PROJECT NUMBER
2025-2006 (ADC#25079)

DRAWN: JRZ
CHECKED: RWH

SHEET TITLE
SITE PLAN

SHEET NO.
C-200



GENERAL NOTES:

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5. CONTRACTOR SHALL CONTACT PALMETTO UTILITY LOCATION SERVICE AT 1-888-721-7877 PRIOR TO ANY WORK. CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING AND PROTECTING ALL UTILITIES. CONTACT THE ENGINEER IN THE EVENT THAT UTILITIES CONFLICT WITH NEW FACILITIES.
6. ALL PROJECT STAKEOUT SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR TO BE PAID FOR BY THE CONTRACTOR. FOR STAKEOUT, DO NOT RELY SOLELY ON THE PHYSICAL SCALE AS SHOWN IN DRAWINGS. REFER TO THE GIVEN DIMENSIONS, SYMBOL LEGEND, KEYNOTES, AND REFERENCED DETAILS FOR CORRECT STAKEOUT.
7. ALL CONTRACTORS/SUBCONTRACTORS/PERSON THAT WILL BE ENGAGED IN LAND DISTURBING ACTIVITIES SHALL COMPLY WITH ALL EROSION CONTROL AND STORMWATER POLLUTION PREVENTION REQUIREMENTS CONTAINED THROUGHOUT THE DRAWINGS, SPECIFICATIONS AND PERMITS.

GRADING AND DRAINAGE NOTES:

1. ALL SPOTS GIVEN ARE TO BOTTOM OF CURB OR TOP OF ASPHALT UNLESS NOTED OTHERWISE.
2. GENERAL CONTRACTOR SHALL COORDINATE ALL SITE UTILITIES AND STORM DRAINAGE INSTALLATION SCHEDULES TO AVOID POTENTIAL UTILITY CONFLICTS.
3. ALL SLOPES SHALL BE 3:1 MAXIMUM UNLESS INDICATED OTHERWISE.
4. ALL SIDEWALKS SHALL BE INSTALLED WITH A MAXIMUM RUNNING SLOPE (LONGITUDINAL SLOPE) OF 5% AND A MAXIMUM CROSS SLOPE OF 2%.
5. ALL ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL BE INSTALLED WITH A MAXIMUM SLOPE OF 2% IN ALL DIRECTIONS.
6. CONTRACTOR SHALL ENSURE THAT ALL ASPECTS OF CONSTRUCTION WILL MEET OR EXCEED THE REQUIREMENTS OF THE CITY OF CHARLESTON STORMWATER MANUAL UNLESS NOTED OTHERWISE.

KEYNOTES: ◇

1. CONTRACTOR SHALL REMOVE SEDIMENT AND GRASS BUILD-UP AROUND OPENIINGS IN EXISTING STORM DRAINAGE STRUCTURE. ENSURE POSITIVE DRAINAGE TO STRUCTURE OPENINGS.
2. DOWNSPOUT IS SHOW IN A LOCATION THAT ONLY APPLIES IF BID ALTERNATE #1 IS SELECTED. IF THE BID ALTERNATE IS NOT SELECTED, COORDINATE EXACT LOCATION OF DOWNSPOUT WITH ARCHITECTURAL BASE BID PLANS.
3. CORE IN TO FACE OF EXISTING STORM DRAINAGE STRUCTURE TO CONNECT NEW 12" PVC STORM PIPE.
4. COORDINATE ROOF/STORM DRAINAGE CROSSING WITH UTILITY CONTRACTOR AND/OR UTILITY PROVIDER TO AVOID CONFLICT.

CIVIL LEGEND – GRADING AND DRAINAGE

CB	CATCH BASIN – INSTALL IAW DETAIL A/C630.
SD	STORM DRAINAGE PIPE – INSTALL IAW DETAIL D/C630.
DS	DOWNSPOUT – INSTALL IAW ARCHITECTURAL PLANS.
RD	ROOF DRAINAGE PIPE – INSTALL IAW DETAIL D/C630.
RCO	ROOF DRAINAGE CLEANOUT – INSTALL IAW DETAIL C/C630.
127.25	NEW FINISHED GRADE SPOT ELEVATION
±127.46M	NEW FINISHED GRADE SPOT ELEVATION TO MATCH EXISTING
11	NEW FINISHED CONTOUR
X 14.00	EXISTING GRADE SPOT
19	EXISTING GRADE CONTOUR
	DRAINAGE FLOW ARROW
	LIMITS OF CONSTRUCTION/LIMITS OF DISTURBANCE

GENERAL REVISIONS

HORIZONTAL SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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HANAHAN, SC 29410
843-566-9191
ADCENGINEERING.COM
ADC PROJECT # 25079.00

SOUTH CAROLINA ADC ENGINEERING INC. No. 00253 CERTIFICATE OF AUTHORITY

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 35165 RYNE WALKER HARDWICK 09/24/25

OWNER

HORRY GEORGETOWN TECHNICAL COLLEGE
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

HORRY GEORGETOWN TECHNICAL COLLEGE

PROJECT NAME

H59-N302-CB
HGTC AUTOMOTIVE TECHNOLOGY BUILDING
BUILDING 1400

Conway, SC 29526

No.	Date	Description
3	09/24/25	Bid Drawings
1	08/26/25	Permit Revision #1
	07/24/25	Construction Documents
ISSUANCE		

PROJECT NUMBER
2025-2006 (ADC#25079)

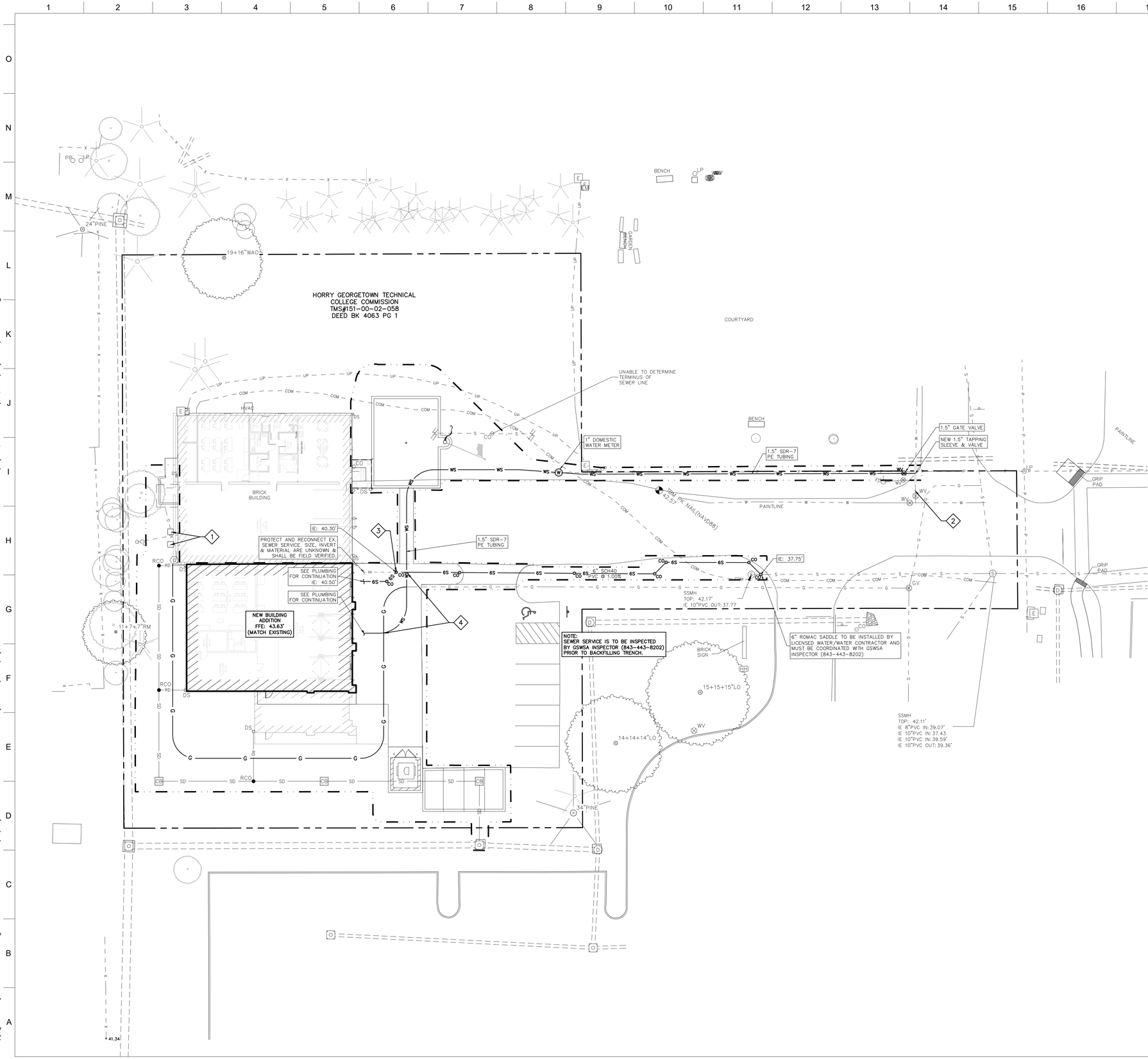
DRAWN: JRZ
CHECKED: RWH

SHEET TITLE
GRADING & STORM DRAINAGE PLAN

SHEET NO.
C-300

THIS SHEET PLOTS ON 24"X36" ARCH D
0 1/2" 1" 2" 3"
Autodesk Docs://2025-2006 HGTC Automotive Technology/2025-2006 HGTC Automotive Tech.rvt
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THIS SHEET PLOTS ON 24"X36" ARCH D
3" 2" 1" 1/2" 0
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GENERAL NOTES:

1. SEE SHEET C001 FOR CIVIL NOTES AND ABBREVIATIONS.
2. HORIZONTAL COORDINATES ARE BASED ON SC STATE PLANE COORDINATES NAD '83. VERTICAL DATUM IS BASED ON NAVD 88.
3. CONTRACTOR IS RESPONSIBLE FOR ALL WORK SHOWN, UNLESS SPECIFICALLY INDICATED OTHERWISE.
4. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO DETERMINE THE EXTENT OF THE PROJECT.
5. CONTRACTOR SHALL CONTACT PALMETTO UTILITY LOCATION SERVICE AT 1-888-721-7877 PRIOR TO ANY WORK. CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING AND PROTECTING ALL UTILITIES. CONTACT THE ENGINEER IN THE EVENT THAT UTILITIES CONFLICT WITH NEW FACILITIES.
6. ALL PROJECT STAKEOUT SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR TO BE PAID FOR BY THE CONTRACTOR. FOR STAKEOUT, DO NOT RELY SOLELY ON THE PHYSICAL SCALE AS SHOWN IN DRAWINGS. REFER TO THE GIVEN DIMENSIONS, SYMBOL LEGEND, KEYNOTES, AND REFERENCED DETAILS FOR CORRECT STAKEOUT.
7. ALL CONTRACTORS/SUBCONTRACTORS/PERSON THAT WILL BE ENGAGED IN LAND DISTURBING ACTIVITIES SHALL COMPLY WITH ALL EROSION CONTROL AND STORMWATER POLLUTION PREVENTION REQUIREMENTS CONTAINED THROUGHOUT THE DRAWINGS, SPECIFICATIONS AND PERMITS.

UTILITY NOTES:

1. GENERAL CONTRACTOR SHALL COORDINATE ALL SITE UTILITIES AND STORM DRAINAGE INSTALLATION SCHEDULES TO AVOID POTENTIAL UTILITY CONFLICTS.
2. UTILITY CONTRACTOR SHALL PROVIDE WATER AND SEWER RECORD DRAWINGS IN ACCORDANCE WITH UTILITY PROVIDER'S REQUIREMENTS.
3. NEW DOMESTIC BACKFLOW PREVENTER WILL BE LOCATED INSIDE THE BUILDING. INSTALL IAW PLUMBING PLANS.

KEYNOTES: ◇

1. COORDINATE NEW HVAC UNIT PADS, LOCATION AND INSTALLATION IAW MECHANICAL DRAWINGS.
2. PROTECT EXISTING WATER SERVICE TO REMAIN ACTIVE DURING CONSTRUCTION. ONCE NEW 2" WATER SERVICE IS INSTALLED AND OPERATIONAL, CUT, CAP AND ABANDON EXISTING WATER SERVICE. TURN OVER EXISTING METER TO THE CITY OF CONWAY UTILITIES.
3. CONTRACTOR SHALL FIELD VERIFY EXISTING SIZE, DEPTH, & INVERT OF EXISTING SEWER LINE. TIE-IN EXISITNG SEWER SERVICE TO NEW SEWER LINE WITH A WYE CONNECTION.
4. COORDINATE UTILITY CROSSING AND ADJUST WATERLINE UP OR DOWN TO AVOID CONFLICT. WATERLINE SHALL HAVE 36" OF COVER AND 12" OF SEPARATION WITH CROSSING UTILITY.

CIVIL LEGEND – WATER AND SEWER

WV	GATE VALVE – INSTALL IAW DETAIL A/C640.
W	1" METER AND METER VAULT – INSTALL IAW DETAIL C/C640.
CO	SEWER CLEANOUT – INSTALL USING 50' MIN. SPACING AND IAW DETAIL C/C640.
WS	WATER SERVICE – INSTALL NEW 1.5" SDR-7 PE TUBING WATER SERVICE UNLESS NOTED OTHERWISE.
6S	SEWER SERVICE – INSTALL IAW ASTM D 3034. ALL WORK SHALL MEET ASTM D 2321 AND SCDHEC REQUIREMENTS. PIPE SHALL BE 6" SDR 26 PVC UNLESS NOTED OTHERWISE.
G	GAS SERVICE – COORDINATE INSTALLATION OR RELOCATION OF GAS SERVICE WITH DOMINION ENERGY.
G	GAS METER – COORDINATE PROTECTION OF EXISTING METER OR INSTALLATION OF A NEW METER WITH DOMINION ENERGY.
	LIMITS OF CONSTRUCTION/LIMITS OF DISTURBANCE

HORIZONTAL SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

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HORRY GEORGETOWN TECHNICAL COLLEGE

PROJECT NAME
H59-N302-CB
HGTC AUTOMOTIVE TECHNOLOGY BUILDING BUILDING 1400
Conway, SC 29526

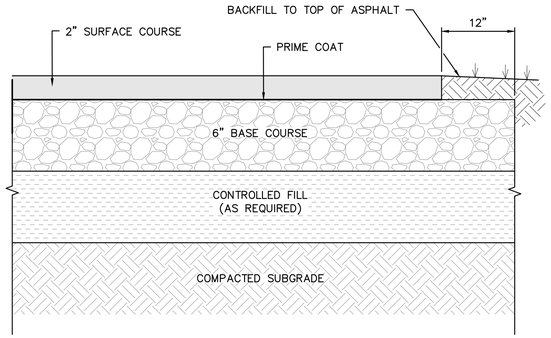
No.	Date	Description
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2	09/15/25	Permit Revision #2
1	08/26/25	Permit Revision #1
	07/24/25	Construction Documents
ISSUANCE		

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2025-2006 (ADC#25079)

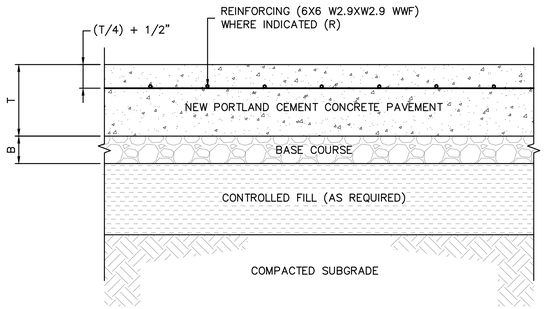
DRAWN: JRZ
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SHEET TITLE
SITE UTILITY PLAN

SHEET NO.
C-400



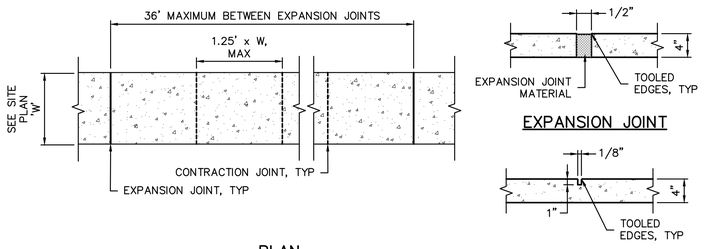
A TYPICAL ASPHALTIC CONCRETE PAVEMENT SECTION
NOT TO SCALE



	T	B
HEAVY DUTY	6"	6"

PAVEMENT THICKNESS = T
BASE COURSE THICKNESS = B

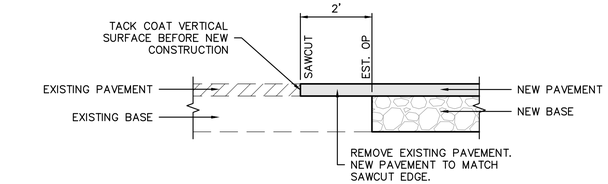
B HEAVY DUTY CONCRETE PAVING SECTION
NOT TO SCALE



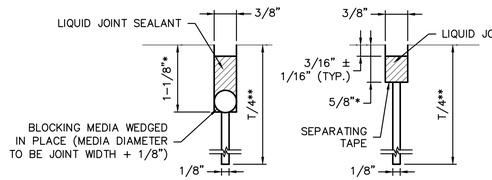
NOTES:

1. PROVIDE EXPANSION JOINTS WHERE SIDEWALK ABUTS STRUCTURES OR OTHER SIDEWALKS.
2. SIDEWALK SHALL HAVE A CROSS SLOPE NO LESS THAN 1% AND NO GREATER THAN 2%.

C SIDEWALK DETAIL
NOT TO SCALE



D PAVEMENT TIE-IN TO EXISTING PAVEMENT
NOT TO SCALE

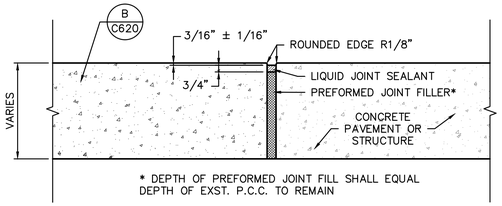


NOTE:

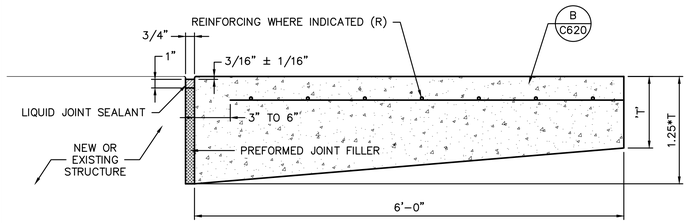
CONTRACTOR MAY AT HIS OPTION, PROVIDE ANY ONE OF THE ABOVE TYPES OF CONTRACTION JOINTS.

* SECOND SAW CUT
** FIRST SAW CUT

CONTRACTION JOINTS (CJ)



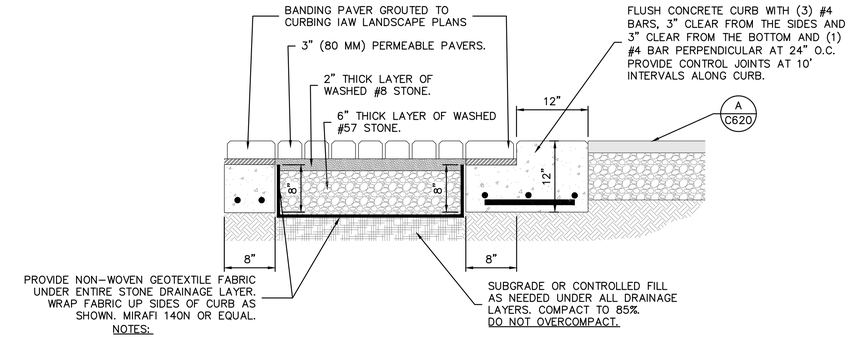
EXPANSION JOINT (EJ)



THICKENED EDGE EXPANSION JOINT (TEEJ)

PAVEMENT THICKNESS = T

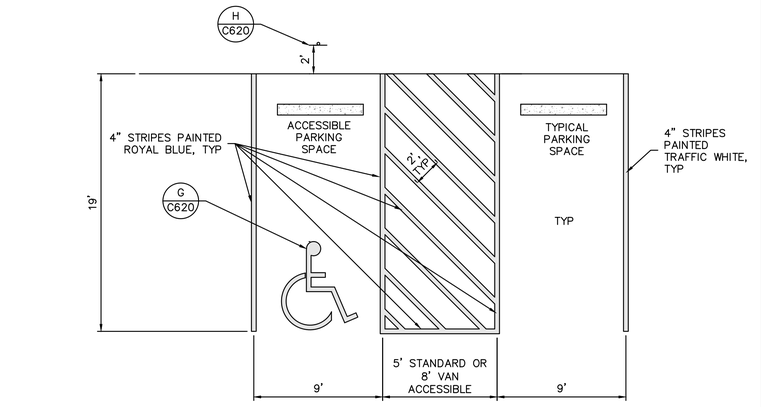
E PAVEMENT JOINTS
NOT TO SCALE



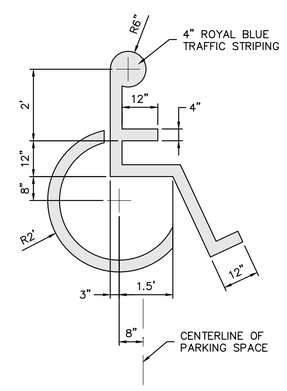
NOTES:

1. PERMEABLE PAVERS SHALL BE LOWCOUNTRY PAVERS MODEL: HYDASHED, BATTERY GRAY COLOR. PAVERS SHALL BE SUBMITTED TO OWNER AND ENGINEER FOR APPROVAL..
2. ALL GEOTEXTILE THAT IS RIPPED OR DAMAGED DURING INSTALLATION SHALL BE REPLACED.
3. ALL GEOTEXTILE FABRIC SHALL BE PLACED DURING DRY WORKING CONDITIONS.
4. CONTRACTOR TO PROTECT GEOTEXTILE FROM ALL DEBRIS AND SOIL RESIDUE AND CLEAN ANY CONTAMINANTS PRIOR TO PLACEMENT OF STONE.
5. INSTALL PAVERS IN HERRINGBONE PATTERN UNLESS NOTED OTHERWISE ON THE SITE PLAN.

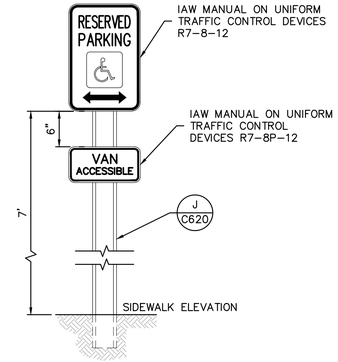
K PERMEABLE PAVER DETAILS
NOT TO SCALE



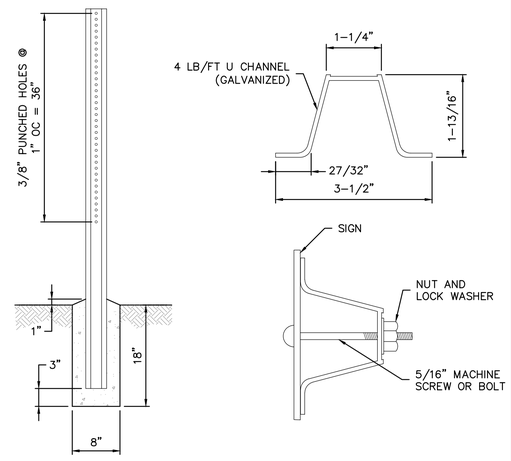
F ACCESSIBLE PARKING DETAIL
NOT TO SCALE



G INTERNATIONAL SYMBOL OF ACCESSIBILITY
NOT TO SCALE



H ACCESSIBLE PARKING SIGN
NOT TO SCALE



J SIGN POST DETAIL
NOT TO SCALE

THIS SHEET PLOTS ON 24"X36" ARCH D

3" 2" 1 1/2" 0

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OWNER

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PROJECT NAME

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HGTC AUTOMOTIVE TECHNOLOGY BUILDING
BUILDING 1400

Conway, SC 29526

No.	Date	Description
3	09/24/25	Bid Drawings
	07/24/25	Construction Documents
ISSUANCE		

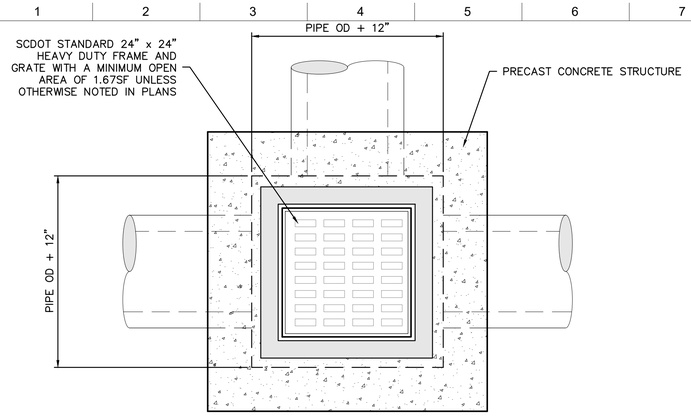
PROJECT NUMBER
2025-2006 (ADC#25079)

DRAWN: JRZ
CHECKED: RWH

SHEET TITLE
CIVIL DETAILS - SITE

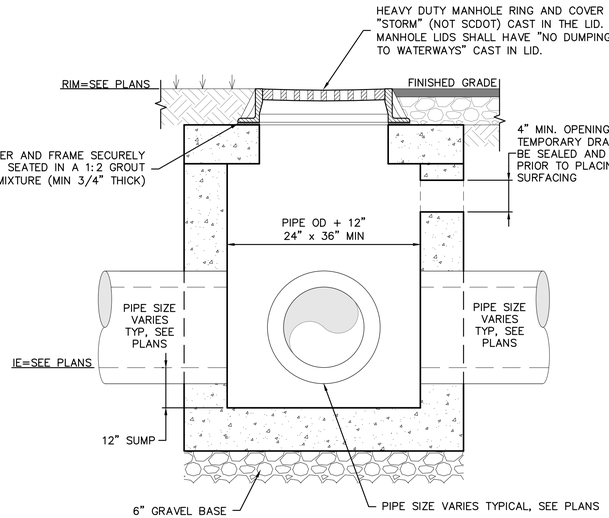
SHEET NO.
C-620

THIS SHEET PLOTS ON 24"X36" ARCH D
3" 2" 1" 1/2" 0



PLAN VIEW – CATCH BASIN WITH SLAB TOP

FINISHED GRADE, PAVING, OR TURF NOT SHOWN THIS VIEW

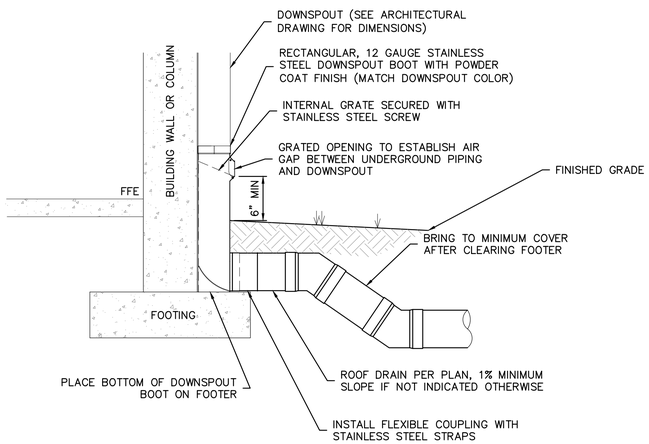


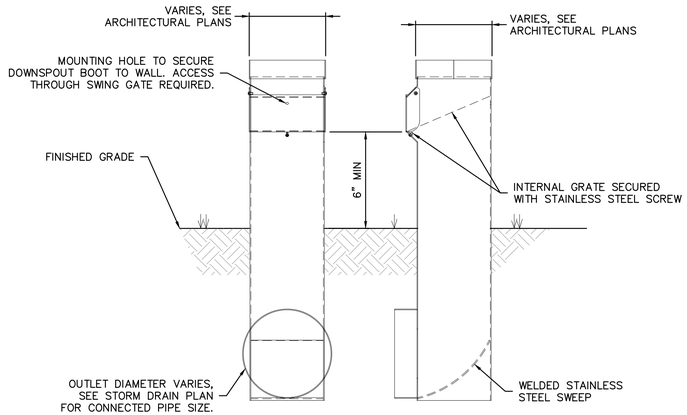
SECTION VIEW CATCH BASIN WITH SLAP TOP

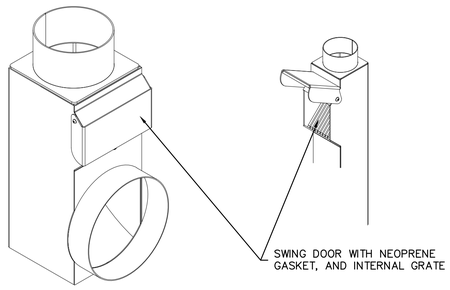
NOTES:

1. PRECAST STRUCTURES SHALL BE DESIGNED BY MANUFACTURER FOR SOIL LOADING AND HS–20 TRAFFIC LOADING.
2. REFER TO PLANS AND PROFILES FOR RIM AND INVERT ELEVATIONS.
3. COVER AND FRAME SHALL BE TRAFFIC RATED WITH "NO DUMPING – DRAINS TO WATERWAYS" CAST INTO COVER.

CB A **CATCH BASIN DETAILS**
NOT TO SCALE



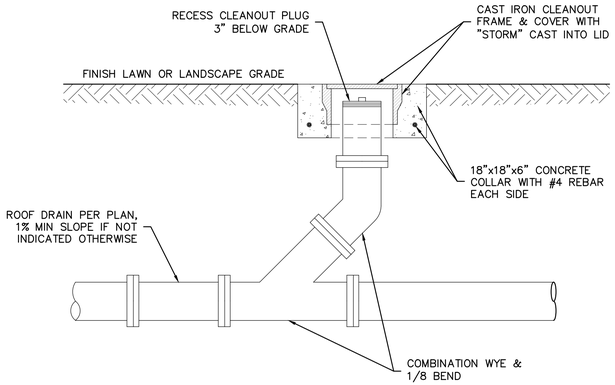




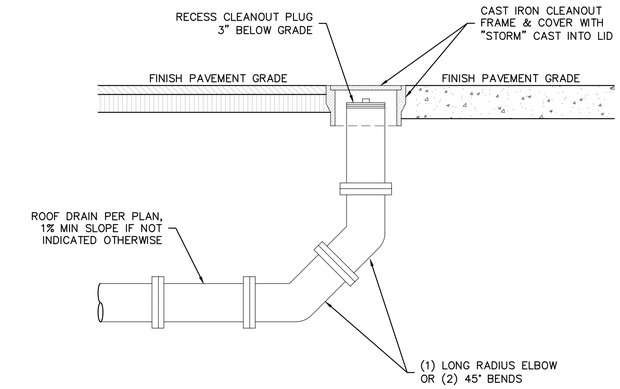
NOTE:

BASIS OF DESIGN IS PIEDMONT PIPE MANUFACTURING DOWNSPOUT MODEL B1 WITH DEBRIS EVACUATION CLEANOUT.

B **BOOT DOWNSPOUT DETAILS**
NOT TO SCALE

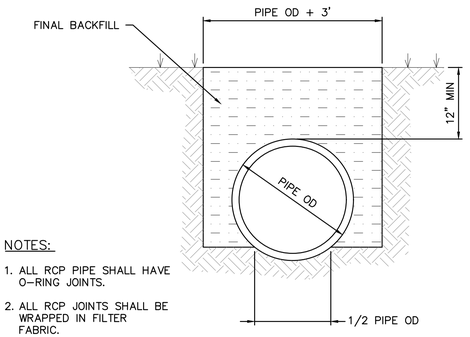


ROOF DRAIN CLEANOUT IN LANDSCAPED AREA



ROOF DRAIN CLEANOUT IN PAVED AREA

C **ROOF DRAIN DETAILS**
NOT TO SCALE



NOTES:

1. ALL RCP PIPE SHALL HAVE O–RING JOINTS.
2. ALL RCP JOINTS SHALL BE WRAPPED IN FILTER FABRIC.

D **STORM/ROOF DRAIN PIPE TRENCH**
NOT TO SCALE

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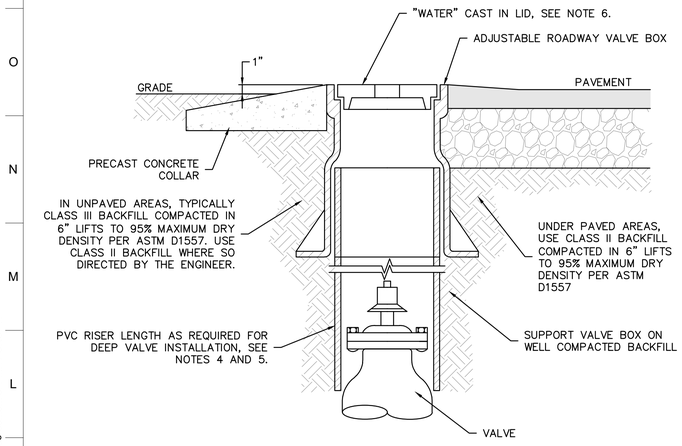
PROJECT NUMBER
2025-2006 (ADC#25079)

DRAWN: JRZ
CHECKED: RWH

SHEET TITLE
CIVIL DETAILS - STORM DRAINAGE

SHEET NO.
C-630

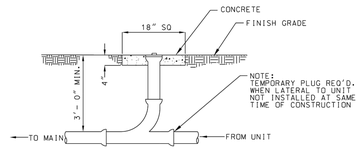
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NOTES:

1. CENTER VALVE BOX OVER OPERATING NUT TO ENSURE FREE VALVE OPERATION.
2. USE 6" RISER PIPE ON 4" AND 6" VALVES.
3. USE 8" RISER PIPE ON 8" VALVES AND LARGER.
4. DO NOT ALLOW VALVE BOX OR RISER TO REST ON ANY PORTION OF THE VALVE.
5. RISER LENGTH AS REQUIRED WITH VALVE BOX ADJUSTED FULLY DOWN. VALVE BOX SHALL BE ADJUSTED UP TO MATCH FINISH PAVEMENT ELEVATION OR 1" ABOVE FINISH GRADE.

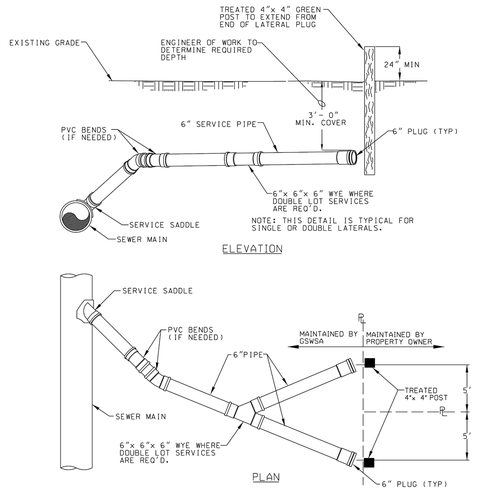
A TYPICAL VALVE BOX



TYPICAL SEWER CLEANOUT
S9

C

TYPICAL SEWER CLEANOUT	
SEWER ONLY UPDATED: 12/26/97	S9
GRAND STRAND WATER & SEWER AUTHORITY	

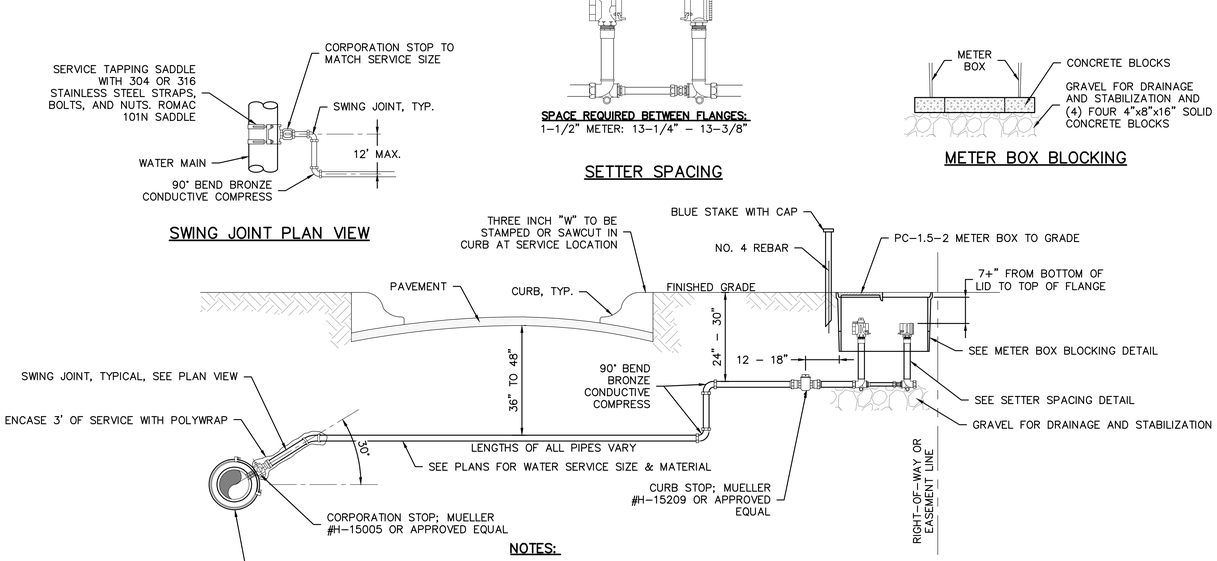


TYPICAL SEWER SERVICE CONNECTION
S8

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TYPICAL SEWER SERVICE CONNECTION	
SEWER ONLY UPDATED: 08/28/06	S8
GRAND STRAND WATER & SEWER AUTHORITY	

LATEST REVISION:
08/28/06 DRT ADDED THE WORD "GREEN" FOR 4"x 4" POST MARKER DESCRIPTION.



NOTES:

1. CONTRACTOR WILL PROVIDE ALL MATERIALS AND INSTALL SERVICES.
2. ALL TAPS WILL BE MADE IN ACCORDANCE WITH THE SPECIFICATIONS AND AMERICAN WATER WORKS ASSOCIATION GUIDELINES FOR TAPPING THROUGH POLYETHYLENE ENCASEMENT.
3. ALL METER BOXES TO BE INSTALLED WITHIN ROAD RIGHTS-OF-WAY UNLESS SPECI9FIED OTHERWISE.
4. SETTER FOR 1.5" METER TO BE FORD MUELLER #B-2422-2 OR APPROVED EQUAL.

E 1-1/2" AND 2" WATER SERVICE

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1300 Professional Drive, Suite 201
Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
www.croftandassociates.com

ADC ENGINEERING
1226 YEAMANS HALL ROAD
HANAHAN, SC 29410
843-886-8181
ADCENGINEERING.COM
ADC PROJECT # 25079.00

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION ADC ENGINEERING INC. No. 00253

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 35165 09/24/25 RENE WALKER HARDWICK

OWNER

HORRY GEORGETOWN TECHNICAL COLLEGE
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

HORRY GEORGETOWN TECHNICAL COLLEGE

PROJECT NAME

H59-N302-CB
HGTC AUTOMOTIVE TECHNOLOGY BUILDING
BUILDING 1400

Conway, SC 29526

No.	Date	Description
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	07/24/25	Construction Documents
ISSUANCE		

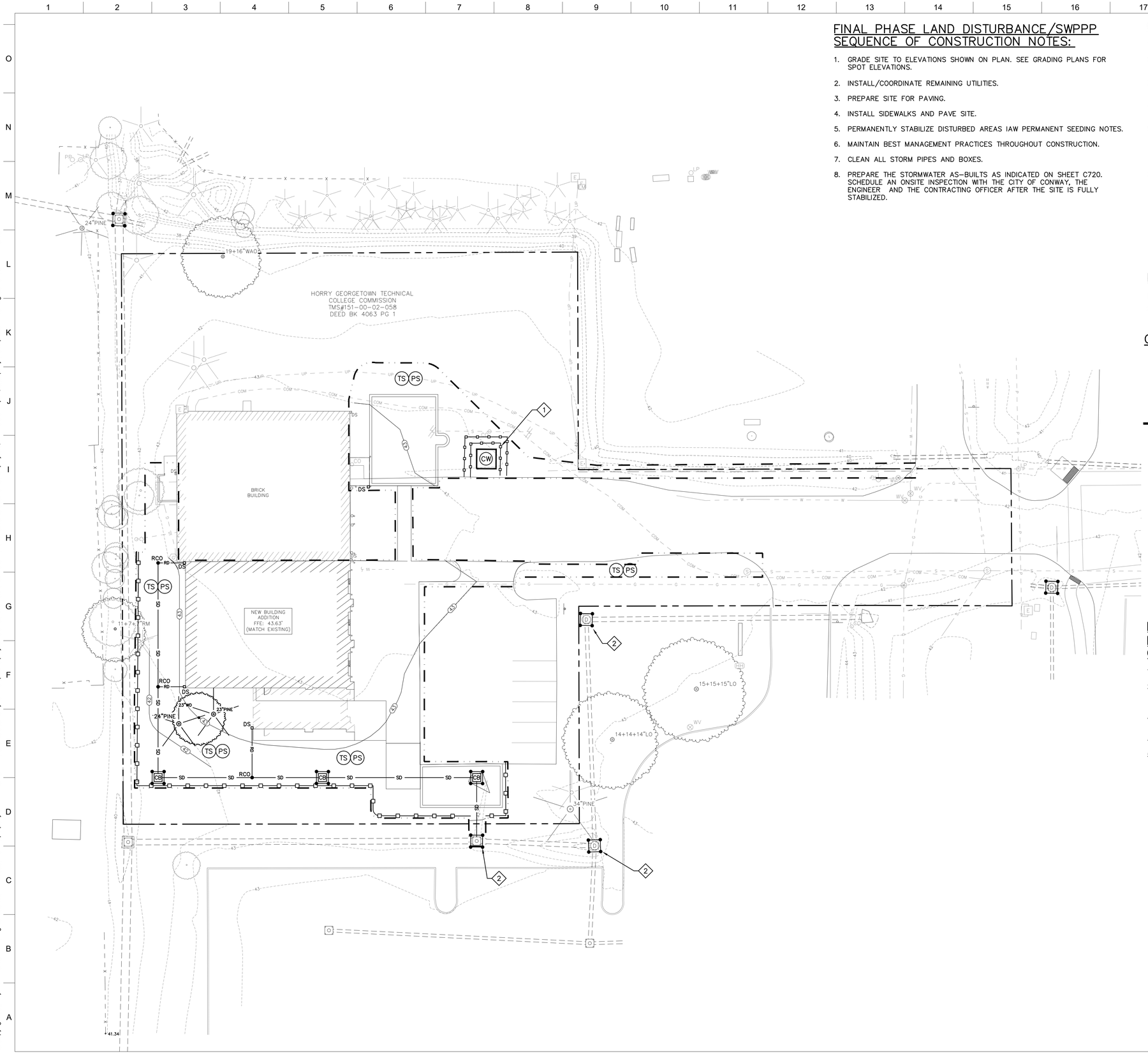
PROJECT NUMBER
2025-2006 (ADC#25079)

DRAWN: JRZ
CHECKED: RWH

SHEET TITLE
CIVIL DETAIL - UTILITIES

SHEET NO.
C-640

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FINAL PHASE LAND DISTURBANCE/SWPPP SEQUENCE OF CONSTRUCTION NOTES:

1. GRADE SITE TO ELEVATIONS SHOWN ON PLAN. SEE GRADING PLANS FOR SPOT ELEVATIONS.
2. INSTALL/COORDINATE REMAINING UTILITIES.
3. PREPARE SITE FOR PAVING.
4. INSTALL SIDEWALKS AND PAVE SITE.
5. PERMANENTLY STABILIZE DISTURBED AREAS IAW PERMANENT SEEDING NOTES.
6. MAINTAIN BEST MANAGEMENT PRACTICES THROUGHOUT CONSTRUCTION.
7. CLEAN ALL STORM PIPES AND BOXES.
8. PREPARE THE STORMWATER AS-BUILTS AS INDICATED ON SHEET C720. SCHEDULE AN ONSITE INSPECTION WITH THE CITY OF CONWAY, THE ENGINEER AND THE CONTRACTING OFFICER AFTER THE SITE IS FULLY STABILIZED.

GENERAL NOTES:

1. SEE SHEET C001 FOR CIVIL NOTES AND ABBREVIATIONS.
2. HORIZONTAL COORDINATES ARE BASED ON SC STATE PLANE COORDINATES NAD '83. VERTICAL DATUM IS BASED ON NAVD 88.
3. CONTRACTOR IS RESPONSIBLE FOR ALL WORK SHOWN, UNLESS SPECIFICALLY INDICATED OTHERWISE.
4. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO DETERMINE THE EXTENT OF THE PROJECT.
5. CONTRACTOR SHALL CONTACT PALMETTO UTILITY LOCATION SERVICE AT 1-888-721-7877 PRIOR TO ANY WORK. CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING AND PROTECTING ALL UTILITIES. CONTACT THE ENGINEER IN THE EVENT THAT UTILITIES CONFLICT WITH NEW FACILITIES.
6. ALL PROJECT STAKEOUT SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR TO BE PAID FOR BY THE CONTRACTOR. FOR STAKEOUT, DO NOT RELY SOLELY ON THE PHYSICAL SCALE AS SHOWN IN DRAWINGS. REFER TO THE GIVEN DIMENSIONS, SYMBOL LEGEND, KEYNOTES, AND REFERENCED DETAILS FOR CORRECT STAKEOUT.
7. ALL CONTRACTORS/SUBCONTRACTORS/PERSON THAT WILL BE ENGAGED IN LAND DISTURBING ACTIVITIES SHALL COMPLY WITH ALL EROSION CONTROL AND STORMWATER POLLUTION PREVENTION REQUIREMENTS CONTAINED THROUGHOUT THE DRAWINGS, SPECIFICATIONS AND PERMITS.

KEYNOTES: ◇

1. INSTALL BELOW GRADE CONCRETE WASHOUT IAW DETAIL B/C711
2. INSTALL INLET PROTECTION ON EXISTING STORM DRAINAGE TRUCTURE ENSURE INLET PROTECTION DOES NOT INHIBIT FLOW FROM ADJACENT PROPERTIES TO THE STRUCTURE.

CIVIL LEGEND – EROSION CONTROL

- TS — TEMPORARY SEEDING – INSTALL IAW DETAIL B/C710.
- PS — PERMANENT SEEDING – INSTALL IAW DETAIL B/C710.
- SILT FENCE – INSTALL IAW DETAIL A/C710.
- INLET PROTECTION – INSTALL IAW DETAIL A/C711.
- LIMITS OF CONSTRUCTION/DISTURBANCE

INITIAL PHASE LAND DISTURBANCE/SWPPP SEQUENCE OF CONSTRUCTION NOTES:

1. PRIOR TO ANY LAND DISTURBANCE ACTIVITY CONDUCT A SWPPP PRE-CONSTRUCTION CONFERENCE. GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT SWPPP PRE-CONSTRUCTION MEETING WITH SWPPP PREPARING ENGINEER, SCDES, CITY OF CONWAY, OWNER AND ALL LAND DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.
2. STAKE OUT CLEARING LIMITS.
3. INSTALL SILT FENCE, INLET PROTECTION AND CONCRETE WASHOUT AS SHOWN ON THE PLANS.
4. TEMPORARILY SEED DISTURBED AREAS IAW THE PLANS.
5. MAINTAIN BEST MANAGEMENT PRACTICES THROUGHOUT CONSTRUCTION.
6. COMPLETE WEEKLY INSPECTION REPORTS.

INTERMEDIATE PHASE LAND DISTURBANCE/SWPPP SEQUENCE OF CONSTRUCTION NOTES:

1. CONDUCT MASS GRADING AS SHOWN ON THE GRADING PLAN.
2. INSTALL NEW STORM AND ROOF DRAINAGE AS SHOWN ON SHEET C300. IMMEDIATELY INSTALL INLET PROTECTION UPON COMPLETION OF NEW STORM DRAINAGE STRUCTURES.
3. ADJUST AND STABILIZE SILT FENCE AS SITE IS BROUGHT TO ROUGH GRADE.
4. INSTALL BUILDING PAD AS SHOWN AND CERTIFY TO OWNER.
5. BEGIN BUILDING CONSTRUCTION.

GENERAL REVISIONS

HORIZONTAL SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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	07/24/25	Construction Documents
ISSUANCE		

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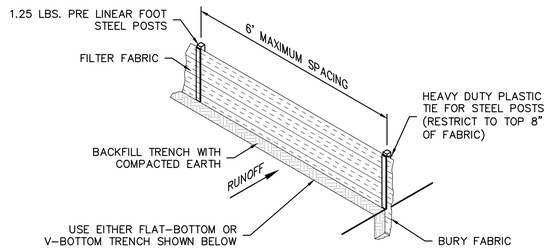
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SHEET TITLE
SWPPP PLAN

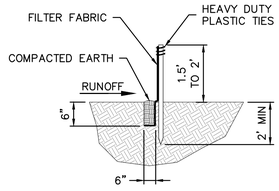
SHEET NO.
C700

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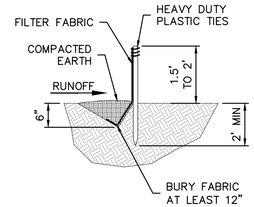
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SILT FENCE INSTALLATION



FLAT-BOTTOM TRENCH DETAIL



V-SHAPED TRENCH DETAIL

GENERAL NOTES:

1. DO NOT PLACE SILT FENCE ACROSS CHANNELS OR IN OTHER AREAS SUBJECT TO CONCENTRATED FLOWS. SILT FENCE SHOULD NOT BE USED AS A VELOCITY CONTROL BMP. CONCENTRATED FLOWS ARE ANY FLOWS GREATER THAN 0.5 CFS.
2. MAXIMUM SHEET OR OVERLAND FLOW PATH LENGTH TO THE SILT FENCE SHALL BE 100–FEET.
3. MAXIMUM SLOPE STEEPNESS (NORMAL [PERPENDICULAR] TO THE FENCE LINE) SHALL BE 2:1.
4. SILT FENCE JOINTS, WHEN NECESSARY, SHALL BE COMPLETED BY ONE OF THE FOLLOWING OPTIONS:
   - WRAP EACH FABRIC TOGETHER AT A SUPPORT POST WITH BOTH ENDS FASTENED TO THE POST, WITH A 1–FOOT MINIMUM OVERLAP;
   - OVERLAP SILT FENCE BY INSTALLING 3–FEET PASSED THE SUPPORT POST TO WHICH THE NEW SILT FENCE ROLL IS ATTACHED. ATTACH OLD ROLL TO NEW ROLL WITH HEAVY–DUTY PLASTIC TIES; OR,
   - OVERLAP ENTIRE WIDTH OF EACH SILT FENCE ROLL FROM ONE SUPPORT POST TO THE NEXT SUPPORT POST.
5. ATTACH FILTER FABRIC TO THE STEEL POSTS USING HEAVY–DUTY PLASTIC TIES THAT ARE EVENLY SPACED WITHIN THE TOP 8–INCHES OF THE FABRIC.
6. INSTALL THE SILT FENCE PERPENDICULAR TO THE DIRECTION OF THE STORMWATER FLOW AND PLACE THE SILT FENCE THE PROPER DISTANCE FROM THE TOE OF STEEP SLOPES TO PROVIDE SEDIMENT STORAGE AND ACCESS FOR MAINTENANCE AND CLEANOUT.
7. INSTALL SILT FENCE CHECKS (TIE–BACKS) EVERY 50–100 FEET, DEPENDENT ON SLOPE, ALONG SILT FENCE THAT IS INSTALLED WITH SLOPE AND WHERE CONCENTRATED FLOWS ARE EXPECTED OR ARE DOCUMENTED ALONG THE PROPOSED/INSTALLED SILT FENCE.

FABRIC REQUIREMENTS:

1. SILT FENCE MUST BE COMPOSED OF WOVEN GEOTEXTILE FILTER FABRIC THAT CONSISTS OF THE FOLLOWING REQUIREMENTS:
   - COMPOSED OF FIBERS CONSISTING OF LONG CHAIN SYNTHETIC POLYMERS OF AT LEAST 85% BY WEIGHT OF POLYOLEFINS, POLYESTERS, OR POLYAMIDES THAT ARE FORMED INTO A NETWORK SUCH THAT THE FILAMENTS OR YARNS RETAIN DIMENSIONAL STABILITY RELATIVE TO EACH OTHER;
   - FREE OF ANY TREATMENT OR COATING WHICH MIGHT ADVERSELY ALTER ITS PHYSICAL PROPERTIES AFTER INSTALLATION;
   - FREE OF ANY DEFECTS OR FLAWS THAT SIGNIFICANTLY AFFECT ITS PHYSICAL AND/OR FILTERING PROPERTIES; AND,
   - HAVE A MINIMUM WIDTH OF 36–INCHES.
2. USE ONLY FABRIC APPEARING ON SC DOT'S QUALIFIED PRODUCTS LISTING (QPL), APPROVAL SHEET #34, MEETING THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE SC DOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
3. 12–INCHES OF THE FABRIC SHOULD BE PLACED WITHIN EXCAVATED TRENCH AND TOED IN WHEN THE TRENCH IS BACKFILLED.
4. FILTER FABRIC SHALL BE PURCHASED IN CONTINUOUS ROLLS AND CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS.
5. FILTER FABRIC SHALL BE INSTALLED AT A MINIMUM OF 24–INCHES ABOVE THE GROUND.

POST REQUIREMENTS:

1. SILT FENCE POSTS MUST BE 48–INCH LONG STEEL POSTS THAT MEET, AT A MINIMUM, THE FOLLOWING PHYSICAL CHARACTERISTICS.
   - COMPOSED OF A HIGH STRENGTH STEEL WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI.
   - INCLUDE A STANDARD "T" SECTION WITH A NOMINAL FACE WIDTH OF 1.38–INCHES AND A NOMINAL "T" LENGTH OF 1.48–INCHES.
   - WEIGH 1.25 POUNDS PER FOOT (± 8%)
2. POSTS SHALL BE EQUIPPED WITH PROJECTIONS TO AID IN FASTENING OF FILTER FABRIC.
3. STEEL POSTS MAY NEED TO HAVE A METAL SOIL STABILIZATION PLATE WELDED NEAR THE BOTTOM WHEN INSTALLED ALONG STEEP SLOPES OR INSTALLED IN LOOSE SOILS. THE PLATE SHOULD HAVE A MINIMUM CROSS SECTION OF 17–SQUARE INCHES AND BE COMPOSED OF 15 GAUGE STEEL, AT A MINIMUM. THE METAL SOIL STABILIZATION PLATE SHOULD BE COMPLETELY BURIED.
4. INSTALL POSTS TO A MINIMUM OF 24–INCHES. A MINIMUM HEIGHT OF 1– TO 2– INCHES ABOVE THE FABRIC SHALL BE MAINTAINED, AND A MAXIMUM HEIGHT OF 3 FEET SHALL BE MAINTAINED ABOVE THE GROUND.
5. POST SPACING SHALL BE AT A MAXIMUM OF 6–FEET ON CENTER.

INSPECTION AND MAINTENANCE:

THE KEY TO FUNCTIONAL SILT FENCE IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.

REGULAR INSPECTIONS OF SILT FENCE SHALL BE CONDUCTED ONCE EVERY CALENDAR WEEK AND, AS RECOMMENDED, WITHIN 24–HOURS AFTER EACH RAINFALL EVEN THAT PRODUCES 1/2–INCH OR MORE OF PRECIPITATION.

ATTENTION TO SEDIMENT ACCUMULATIONS ALONG THE SILT FENCE IS EXTREMELY IMPORTANT. ACCUMULATED SEDIMENT SHOULD BE CONTINUALLY MONITORED AND REMOVED WHEN NECESSARY.

REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/3 THE HEIGHT OF THE SILT FENCE.

REMOVED SEDIMENT SHALL BE PLACED IN STOCKPILE STORAGE AREAS OR SPREAD THINLY ACROSS DISTURBED AREA. STABILIZE THE REMOVED SEDIMENT AFTER IT IS RELOCATED.

CHECK FOR AREAS WHERE STORMWATER RUNOFF HAS ERODED A CHANNEL BENEATH THE SILT FENCE, OR WHERE THE FENCE HAS SAGGED OR COLLAPSED DUE TO RUNOFF OVERTOPPING THE SILT FENCE. INSTALL CHECKS/TIE–BACKS AND/OR REINSTALL SILT FENCE, AS NECESSARY.

CHECK FOR TEARS WITHIN THE SILT FENCE, AREAS WHERE SILT FENCE HAS BEGUN TO DECOMPOSE, AND FOR ANY OTHER CIRCUMSTANCE THAT MAY RENDER THE SILT FENCE INEFFECTIVE. REMOVED DAMAGED SILT FENCE AND REINSTALL NEW SILT FENCE IMMEDIATELY.

SILT FENCE SHOULD BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED AND ONCE IT IS REMOVED, THE RESULTING DISTURBED AREA SHALL BE PERMANENTLY STABILIZED.

SF — A SCDES SILT FENCE DETAIL

NOT TO SCALE

NOTES:

1. THE GENERAL CONTRACTOR IS REQUIRED TO, AT A MINIMUM, INITIATE SOIL STABILIZATION MEASURES IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT LIKELY RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. DIVERSION CHANNELS/DITCHES SHALL BE STABILIZED WITHIN 7 DAYS OF INSTALLATION.
2. THE GENERAL CONTRACTOR HAS 7 DAYS FROM INITIATION OF STABILIZATION TO COMPLETE SOIL PREPARATION, SEEDING, MULCHING, AND ANY OTHER REQUIRED ACTIVITIES RELATED TO THE PLANTING AND ESTABLISHMENT OF VEGETATION. THE GENERAL CONTRACTOR ALSO HAS 7 DAYS FROM INITIATION OF STABILIZATION TO COMPLETELY INSTALL NON–VEGETATED MEASURES, IF UTILIZED.
3. ALL DISTURBED AREAS MUST BE STABILIZED TEMPORARILY WITH THE USE OF FAST–GERMINATING ANNUAL GRASS/GRAIN VARIETIES APPROPRIATE FOR SITE SOIL AND CLIMATE CONDITIONS. MULCH IS REQUIRED FOR ALL SEEDING APPLICATIONS, AND ALL MULCH APPLICATIONS MUST INCLUDE A SUITABLE FORM OF MULCH ANCHORING TO MINIMIZE MOVEMENT OF MULCH BY WIND OR WATER.

SCDES PERMANENT SEEDING – COASTAL												
SPECIES	LBS/AC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SANDY, DROUGHTY SITES													
BROWNTOP MILLET BAHIAGRASS	10 40												
BROWNTOP MILLET BAHIAGRASS SERICEA LESPEDEZA	10 30 40												
BROWNTOP MILLET ATLANTIC COASTAL PANIC GRASS	10 15 PLS												
BROWNTOP MILLET SWITCHGRASS (ALAMO) LITTLE BLUESTEM SERICEA LESPEDEZA	10 8 PLS 4 20												
BROWNTOP MILLET WEEPING LOVEGRASS	10 5												
WELL DRAINED, CLAYEY/LOAMEY SITES													
BROWNTOP MILLET BAHIAGRASS	10 40												
RYE, GRAIN BAHIAGRASS CLOVER,CRIMSON (ANNUAL)	10 40 5												
BROWNTOP MILLET BAHIAGRASS SERICEA LESPEDEZA	10 30 40												
BROWNTOP MILLET BERMUDA, COMMON SERICEA LESPEDEZA	10 10 40												
BROWNTOP MILLET BERMUDA, COMMON KOBE LESPEDEZA (ANNUAL)	10 12 10												
BROWNTOP MILLET BAHIAGRASS BERMUDA, COMMON SERICEA LESPEDEZA	10 20 6 40												
BROWNTOP MILLETSWITCHGRASS LITTLE BLUESTEM INDIANGRASS	10 8 PLS 2 PLS 3 PLS												

SCDES TEMPORARY SEEDING – COASTAL												
SPECIES	LBS/AC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SANDY, DROUGHTY SITES													
BROWNTOP MILLET	40												
RYE, GRAIN	56												
RYEGRASS	50												
WELL DRAINED, CLAYEY/LOAMEY SITES													
BROWNTOP MILLET OR JAPANESE MILLET	40												
RYE, GRAIN OR OATS	56 75												
RYEGRASS	50												

SEEDING PREPARATION:
A. TILL AREA TO BE SEEDED TO A DEPTH OF 4".
B. APPLY 10–10–10 FERTILIZER AT A RATE OF 11.5 POUNDS PER 1,000 SQUARE FEET.
C. THE FERTILIZER SHALL BE WORKED INTO THE TOP 4 INCHES OF SOIL PRIOR TO SEEDING.

STRAW MULCH:
A. APPLY STRAW MULCH BY HAND OR MACHINE AT A RATE OF 1.5–2.0 TONS PER ACRE (90 POUNDS PER 1,000 SF) THEN TACKED WITH EMULSIFIED ASPHALT.

4. ALTERNATIVE STABILIZATION MEASURES TO SEEDING, SUCH AS ANCHORED MULCH APPLICATION (WITHOUT SEEDING), MAY BE UTILIZED DURING PERIODS WHEN VEGETATIVE GROWTH IS UNLIKELY (E.G. WINTER MONTHS).
5. IT IS NOT ACCEPTABLE TO ALLOW BARE SOIL TO REMAIN EXPOSED AT ANY TIME DURING THE YEAR, REGARDLESS OF WEATHER/TEMPERATURE/SITE CONDITIONS.
6. ALTERNATIVE STABILIZATION MEASURES INCLUDE, BUT ARE NOT LIMITED TO: ANCHORED STRAW/HAY MULCH, WOOD CELLULOSE FIBER MULCH, SPRAY–ON SOIL GLUES/BINDERS, AND ROLLED EROSION CONTROL PRODUCTS.
7. ALL ROLLED EROSION CONTROL PRODUCTS SHALL HAVE CURRENT QDOR(TM) STATUS ISSUED BY THE EROSION CONTROL TECHNOLOGY COUNCIL (ECTC) PLUS ANY STATE OR AGENCY–SPECIFIC REQUIREMENTS. EVIDENCE OF QDOR(TM) APPROVAL SHALL ACCOMPANY THE PRODUCT SHIPPED TO THE JOBSITE FOR READY IDENTIFICATION BY THE CONTRACTOR OR AGENCY INSPECTOR.
8. ROLLED EROSION CONTROL PRODUCTS (NETS, BLANKETS, TURF REINFORCED MATES) AND VEGETATED AREAS NOT MEETING REQUIRED VEGETATIVE DENSITIES FOR FINAL STABILIZATION MUST BE INSPECTED DAILY. RILLING, RUTTING AND OTHER SIGNS OF EROSION INDICATE THE SPECIFIED EROSION CONTROL DEVICE IS NOT FUNCTIONING OR INSTALLED PROPERLY AND/OR ADDITIONAL EROSION CONTROL DEVICES ARE WARRANTED.

TS PS — B SCDES TEMPORARY AND PERMANENT SEEDING/VEGETATION NOTES

NOT TO SCALE

PMH CROFT ARCHITECTS • ENGINEERS
1300 Professional Drive, Suite 201
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843.497.0272 (p) 843.497.0271 (f)
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SOUTH CAROLINA PROFESSIONAL ENGINEER — RYNE WALKER HARDWICK No. 35165 — 09/24/25

OWNER

HORRY GEORGETOWN TECHNICAL COLLEGE
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

HORRY GEORGETOWN TECHNICAL COLLEGE

PROJECT NAME

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BUILDING 1400

Conway, SC 29526

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ISSUANCE

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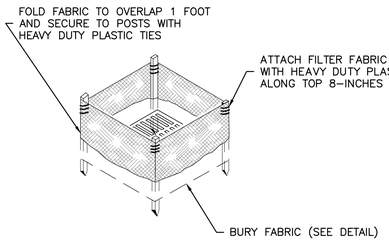
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SHEET TITLE
CIVIL DETAILS - SWPPP

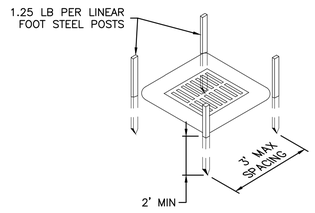
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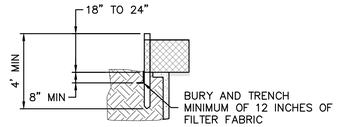
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3" 2" 1" 1/2" 0
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FILTER FABRIC INSTALLATION DETAIL



POST INSTALLATION DETAIL



FILTER FABRIC BURIAL DETAIL

INSPECTION AND MAINTENANCE:

1. THE KEY TO FUNCTIONAL INLET PROTECTION IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.
2. REGULAR INSPECTIONS OF INLET PROTECTION SHALL BE CONDUCTED ONCE EVERY CALENDAR WEEK AND, AS RECOMMENDED, WITHIN 24-HOURS AFTER EACH RAINFALL EVEN THAT PRODUCES 1/2-INCH OR MORE OF PRECIPITATION.
3. ATTENTION TO SEDIMENT ACCUMULATIONS ALONG THE FILTER FABRIC IS EXTREMELY IMPORTANT. ACCUMULATED SEDIMENT SHOULD BE CONTINUALLY MONITORED AND REMOVED WHEN NECESSARY.
4. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/3 THE HEIGHT OF THE FILTER FABRIC. WHEN A SUMP IS INSTALLED IN FRONT OF THE FABRIC, SEDIMENT SHOULD BE REMOVED WHEN IT FILLS APPROXIMATELY 1/3 THE DEPTH OF THE SUMP.
5. REMOVED SEDIMENT SHALL BE PLACED IN STOCKPILE STORAGE AREAS OR SPREAD THINLY ACROSS DISTURBED AREA. STABILIZE THE REMOVED SEDIMENT AFTER IT IS RELOCATED.
6. CHECK FOR AREAS WHERE STORMWATER RUNOFF HAS ERODED A CHANNEL BENEATH THE FILTER FABRIC, OR WHERE THE FABRIC HAS SAGGED OR COLLAPSED DUE TO RUNOFF OVERTOPPING THE INLET PROTECTION.
7. CHECK FOR TEARS WITHIN THE FILTER FABRIC, AREAS WHERE FABRIC HAS BEGUN TO DECOMPOSE, AND FOR ANY OTHER CIRCUMSTANCE THAT MAY RENDER THE INLET PROTECTION INEFFECTIVE. REMOVED DAMAGED FABRIC AND REINSTALL NEW FILTER FABRIC IMMEDIATELY.
8. INLET PROTECTION STRUCTURES SHOULD BE REMOVED AFTER ALL THE DISTURBED AREAS ARE PERMANENTLY STABILIZED. REMOVE ALL CONSTRUCTION MATERIAL AND SEDIMENT, AND DISPOSE OF THEM PROPERLY. GRADE THE DISTURBED AREA TO THE ELEVATION OF THE DROP INLET STRUCTURE CREST. STABILIZE ALL BARE AREAS IMMEDIATELY.

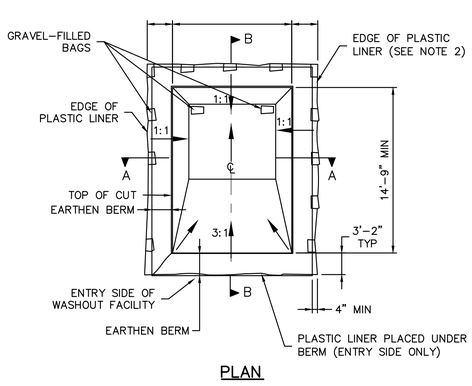
FILTER FABRIC REQUIREMENTS:

1. SILT FENCE MUST BE COMPOSED OF WOVEN GEOTEXTILE FILTER FABRIC THAT CONSISTS OF THE FOLLOWING REQUIREMENTS:
   - COMPOSED OF FIBERS CONSISTING OF LONG CHAIN SYNTHETIC POLYMERS OF AT LEAST 85% BY WEIGHT OF POLYOLEFINS, POLYESTERS, OR POLYAMIDES THAT ARE FORMED INTO A NETWORK SUCH THAT THE FILAMENTS OR YARNS RETAIN DIMENSIONAL STABILITY RELATIVE TO EACH OTHER;
   - FREE OF ANY TREATMENT OR COATING WHICH MIGHT ADVERSELY ALTER ITS PHYSICAL PROPERTIES AFTER INSTALLATION;
   - FREE OF ANY DEFECTS OR FLAWS THAT SIGNIFICANTLY AFFECT ITS PHYSICAL AND/OR FILTERING PROPERTIES; AND,
   - HAVE A MINIMUM WIDTH OF 36-INCHES.
2. USE ONLY FABRIC APPEARING ON SC DOT'S QUALIFIED PRODUCTS LISTING (QPL) APPROVAL SHEET #34, MEETING THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE SC DOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
3. 12-INCHES OF THE FABRIC SHOULD BE PLACED WITHIN EXCAVATED TRENCH AND TOED IN WHEN THE TRENCH IS BACKFILLED.
4. FILTER FABRIC SHALL BE PURCHASED IN CONTINUOUS ROLLS AND CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS.
5. FILTER FABRIC SHALL BE INSTALLED AT A MINIMUM OF 24-INCHES ABOVE THE GROUND.

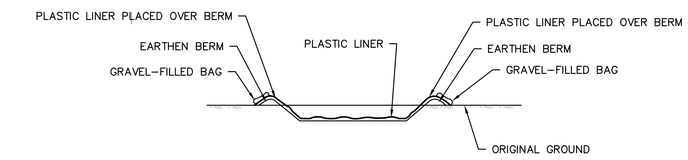
POST REQUIREMENTS:

1. SILT FENCE POSTS MUST BE 48-INCH LONG STEEL POSTS THAT MEET, AT A MINIMUM, THE FOLLOWING PHYSICAL CHARACTERISTICS.
   - COMPOSED OF A HIGH STRENGTH STEEL WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI.
   - INCLUDE A STANDARD "T" SECTION WITH A NOMINAL FACE WIDTH OF 1.38-INCHES AND A NOMINAL "T" LENGTH OF 1.48-INCHES.
   - WEIGH 1.25 POUNDS PER FOOT (± 8%)
2. POSTS SHALL BE EQUIPPED WITH PROJECTIONS TO AID IN FASTENING OF FILTER FABRIC.
3. INSTALL POSTS TO A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1- TO 2-INCHES ABOVE THE FABRIC SHALL BE MAINTAINED, AND A MAXIMUM HEIGHT OF 3 FEET SHALL BE MAINTAINED ABOVE THE GROUND.
4. POST SPACING SHALL BE AT A MAXIMUM OF 3-FEET ON CENTER.

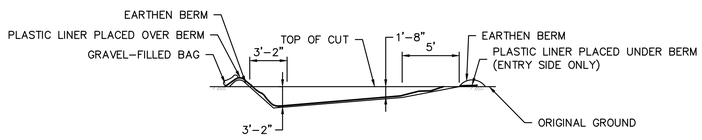
[A] (A) SCDES TYPE A FILTER FABRIC INLET PROTECTION
NOT TO SCALE



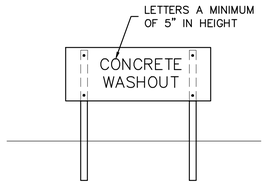
PLAN



SECTION A-A



SECTION B-B



CONCRETE WASHOUT SIGN DETAIL

NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. INSTALL CONCRETE WASHOUT SIGN (24"X24", MINIMUM) WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. TEMPORARY WASHOUT AREA MUST BE AT LEAST 50' FROM A STORM DRAIN, CREEK BANK OR PERIMETER CONTROL.
4. CLEAN OUT CONCRETE WASHOUT AREA WHEN 50% FULL.
5. THE KEY TO FUNCTIONAL CONCRETE WASHOUTS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR CLEAN OUT.
6. SILT FENCE SHALL BE INSTALLED AROUND PERIMETER OF CONCRETE WASHOUT AREA EXCEPT FOR THE SIDE UTILIZED FOR ACCESSING THE WASHOUT.
7. A ROCK CONSTRUCTION ENTRANCE MAY BE NECESSARY ALONG ONE SIDE OF THE WASHOUT TO PROVIDE VEHICLE ACCESS.

[CW] [ ] (B) BELOW GRADE CONCRETE WASHOUT
NOT TO SCALE

PMH CROFT ARCHITECTS • ENGINEERS
1300 Professional Drive, Suite 201
Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
www.croftandassociates.com

ADC ENGINEERING
1226 YEAMANS HALL ROAD
HANAHAN, SC 29410
843-566-9191
ADCENGINEERING.COM
ADC PROJECT # 25079.00

SOUTH CAROLINA CERTIFICATE OF AUTHORITY ADC ENGINEERING INC. No. 00253

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 35165 09/24/25 RYNE WALKER HARDWICK

OWNER

HORRY GEORGETOWN TECHNICAL COLLEGE
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

HORRY GEORGETOWN TECHNICAL COLLEGE

PROJECT NAME

H59-N302-CB
HGTC AUTOMOTIVE TECHNOLOGY BUILDING
BUILDING 1400

Conway, SC 29526

No.	Date	Description
3	09/24/25	Bid Drawings
	07/24/25	Construction Documents

ISSUANCE

PROJECT NUMBER
2025-2006 (ADC#25079)

DRAWN: JRZ
CHECKED: RWH

SHEET TITLE
CIVIL DETAILS - SWPPP

SHEET NO.
C-711

THIS SHEET PLOTS ON 24"X36" ARCH D
0 1/2" 1" 2" 3"

SCDES STANDARD NOTES:

1. IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.

2. 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 FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.
   - WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
   - WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.

3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.

4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.

5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.

7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C REG. 72-300 ET SEQ. AND SCR100000.

8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

9. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.

10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

11. A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.

12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.

13. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.

14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.

15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.).

16. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
   - WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
   - WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;
   - FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
   - SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.

17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.

18. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.

19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

DEWATERING NOTES:

1. THE DESIGN, ADEQUACY AND OPERATION OF ANY AND ALL DEWATERING ACTIVITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

2. THE CONTRACTOR SHALL PROTECT ALL ADJACENT PROPERTIES, RIGHTS OF WAYS, NATURAL AREAS AND EXISTING UTILITY SYSTEMS FROM EROSION AND SEDIMENTATION ASSOCIATED WITH DEWATERING ACTIVITIES.

3. DEWATERING OF EXISTING PONDS OR LARGE PONDING AREAS SHALL ALWAYS UTILIZE A FLOATING INTAKE.

4. DEWATERING DISCHARGES SHALL ALWAYS BE DIRECTED THROUGH SUITABLE BEST MANAGEMENT PRACTICE (BMP) SUCH AS A TEMPORARY SEDIMENT POND/TRAP OR SEDIMENT TRAPPING DEWATERING BAG.

5. ALL DEWATERING ACTIVITIES SHOULD BE IN ACCORDANCE WITH THE SCDES CGP.

SCDES POST-CONSTRUCTION MAINTENANCE REQUIREMENTS

SYSTEM	MAINTENANCE REQUIREMENTS	MAINTENANCE FREQUENCY
A. VEGETATED AREAS	1. MOW GRASS 2. REMOVE ALL LITTER AND DEBRIS 3. REMOVE AND REPLACE DEAD OR DISEASED VEGETATION 4. REPLACE / REPLENISH MULCH 5. REMOVE WEEDS 6. PRUNE VEGETATION TO MAINTAIN APPEARANCE	1. MONTHLY 2. MONTHLY 3. SEMI-ANNUALLY 4. SEMI-ANNUALLY 5. SEMI-ANNUALLY 6. SEMI-ANNUALLY
B. STORM DRAINAGE SYSTEM	1. REMOVE ALL LITTER AND DEBRIS FROM PIPES 2. REMOVE SEDIMENT FROM DRAINAGE STRUCTURE SUMPS	1. ANNUALLY 2. ANNUALLY, OR WHEN SUMP VOLUME HAS BEEN REDUCED BY 50%
C. GRASS LINED DITCHES AND SWALES	1. MOW SWALE SLOPES 2. REMOVE ALL LITTER AND DEBRIS 3. REPAIR SIDE SLOPES 4. REMOVE SEDIMENT BUILDUP WITHIN BOTTOM OF SWALE	1. MONTHLY 2. MONTHLY 3. ANNUALLY 4. ANNUALLY, OR WHEN SWALE VOLUME HAS BEEN REDUCED BY 25%

SCDES STORMWATER AS-BUILT/RECORD DRAWING REQUIREMENTS:

1. PRIOR TO SUBSTANTIAL COMPLETION AND PRIOR TO REQUESTING FINAL SITE INSPECTION BY SCDES THE CONTRACTOR SHALL PROVIDE AND RECEIVE APPROVAL OF AS-BUILT/RECORD DRAWINGS CONSISTING OF SURVEY DRAWINGS MEETING THE FOLLOWING REQUIREMENTS:

   A. FIELD SURVEYED DRAWINGS BASED ON AN AS-BUILT SURVEY OF NEWLY CONSTRUCTED STORM WATER MANAGEMENT FACILITIES WITH:

      (i) EXISTING GRADES/CONTOURS/DEPTHS OF THE FACILITY.
      (ii) ELEVATIONS AND DIMENSIONS OF ALL INLET/OUTLET STRUCTURES, INCLUDING:
      - PIPE AND ORIFICE INVERTS AND DIAMETERS.
      - WEIR ELEVATIONS AND DIMENSIONS.
      - RISER DIMENSIONS AND ELEVATIONS.
      - EMERGENCY SPILLWAY DIMENSIONS AND ELEVATIONS.
      - LOCATIONS AND INVERTS FOR ALL PIPES DISCHARGING INTO THE FACILITY.
      - LOCATIONS AND INVERTS FOR ALL PIPES EXITING THE FACILITY.
      - DETAILED SKETCHES OF THE STRUCTURES SHALL BE PROVIDED IF NECESSARY FOR CLARITY.
      (iii) SPOT ELEVATIONS ALONG THE TOP, BOTTOM AND SHELVES OF THE FACILITY'S EMBANKMENT.
      (iv) CONTOURS, DIMENSION, AND LOCATIONS OF ALL STRUCTURAL COMPONENTS (E.G., FOREBAYS, LEVEL SPREADERS, RIP RAP APRONS, INLET STRUCTURES, LOW FLOW CHANNELS) OF THE FACILITY.
      (v) TABLE OF ELEVATIONS AND ASSOCIATED CONTOUR AREA AT EACH ELEVATION FOR STAGE/STORAGE VERIFICATION. IF FACILITY IS SEPARATED INTO DIFFERENT BASINS OR FOREBAYS, THE TABLE SHALL PROVIDE AREA DATA FOR EACH SEPARATE BASIN.
      (vi) WETLAND AREAS

   B. AS-BUILT SURVEYS SHALL BE PREPARED IN STATE PLANE COORDINATES NAD 83 DATUM.

   C. AS-BUILT SURVEYS SHALL BE PREPARED USING THE SAME VERTICAL DATUM AS USED ON THE APPROVED DESIGN PLANS.

   D. ALL DRAWINGS SHALL BEAR THE FOLLOWING STATEMENTS SIGNED BY THE SURVEYOR:

      "I HEREBY SIGN, DATE AND AFFIX MY SEAL TO CERTIFY THAT THE AS-BUILT/RECORD DRAWING SURVEY SHOWN IS CORRECT AND ACCURATE."

      _____
      S.C. REGISTERED PROFESSIONAL LAND SURVEYOR

2. THE CONTRACTOR SHALL SUBMIT PRELIMINARY VERSIONS OF THE AS-BUILT/RECORD DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO SUBMITTING TO SCDES FOR REVIEW.

3. UPON RECEIPT OF ANY COMMENTS FROM THE ENGINEER, THE CONTRACTOR SHALL MAKE ALL NECESSARY CORRECTIONS AND RESUBMIT FINAL VERSIONS OF THE AS-BUILT/RECORD DRAWINGS TO THE ENGINEER FOR FORWARDING TO SCDES FOR REVIEW AND/OR APPROVAL.

4. UPON RECEIPT OF ANY COMMENTS FROM SCDES, THE CONTRACTOR SHALL MAKE ALL NECESSARY CORRECTIONS AND RESUBMIT CORRECTED FINAL VERSIONS OF THE AS-BUILT/RECORD DRAWINGS TO THE ENGINEERES FOR FORWARDING TO SCDES FOR REVIEW AND/OR APPROVAL.

PMH CROFT
ARCHITECTS • ENGINEERS
1300 Professional Drive, Suite 201
Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
www.croftandassociates.com

ADC ENGINEERING
1226 YEAMANS HALL ROAD
HANAHAN, SC 29410
843-866-0161
ADCENGINEERING.COM
ADC PROJECT # 25079.00

SOUTH CAROLINA — ADC ENGINEERING INC. No. 00253 — CERTIFICATE OF AUTHORITY

SOUTH CAROLINA PROFESSIONAL — No. 35165 — 09/24/25 — RYNE WALKER HARDWICK

OWNER

HORRY GEORGETOWN TECHNICAL COLLEGE
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

HORRY GEORGETOWN TECHNICAL COLLEGE

PROJECT NAME

H59-N302-CB
HGTC AUTOMOTIVE TECHNOLOGY BUILDING
BUILDING 1400

Conway, SC 29526

No.	Date	Description
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DRAWN: JRZ
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SHEET TITLE
SWPPP DETAILS - NOTES AND CLOSEOUT

SHEET NO.
C-720

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3" 2" 1" 1/2" 0

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STRUCTURAL/GENERAL NOTES:

1. THE NOTES PRESENTED IN THESE STRUCTURAL DRAWINGS ARE TO PROVIDE THE CONTRACTOR (AND SUBCONTRACTORS) WITH INFORMATION PERTAINING TO THE STRUCTURAL DESIGN FOR THIS PROJECT. SOME NOTES PRESENTED IN THESE DRAWINGS MAY BE DUPLICATED IN SEVERAL SECTIONS. A SPECIFICATIONS BOOK PROVIDED FOR SUPPLEMENTAL INFORMATION. IN THE EVENT OF CONFLICTING (OR MISSING) INFORMATION THE CONTRACTOR SHOULD EMAIL A (REQUEST FOR INFORMATION (RFI) TO THE APPROPRIATE DESIGNER OF WEATHERLY ENGINEERING. THE CONTRACTOR SHOULD ASSUME THE MOST STRINGENT CONDITION UNTIL A RULING IS MADE. THE RESPONSE TIME FOR A PARTICULAR RFI MAY DEPEND ON RESEARCH AND MAY INVOLVE A RESPONSE FROM INDIVIDUALS OUTSIDE THE OFFICE OF WEATHERLY ENGINEERING LLC.

2. THE STRUCTURAL NOTES FOR THIS PROJECT ARE GENERALLY CATEGORIZED AS TO WORK TRADE. THERE WILL BE INSTANCES IN WHICH STRUCTURAL NOTES WILL PERTAIN TO MULTIPLE TRADES AND DRAWINGS OR INFORMATION PROVIDED BY OTHERS. FOR THIS REASON, THE DETAILS AND NOTES FOUND IN THE CONSTRUCTION DRAWINGS, DOCUMENTS AND SUBMITTALS SHALL BE CLEARLY UNDERSTOOD BY THE CONTRACTOR AND HIS SUBCONTRACTORS PRIOR TO BID DATE AND STARTING WORK. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SUPERVISION OVER ALL HIS PERSONNEL AND SUBCONTRACTORS. ADEQUATE EXPERIENCED STAFF BY THE GENERAL CONTRACTOR IS A REQUIREMENT TO MAINTAIN CONTROL OVER HIS SUBCONTRACTORS AND ULTIMATELY THE QUALITY OF THE SUBCONTRACTORS WORK.

3. THE LEAD (ARCHITECTURAL) DRAWINGS SHALL BE CONSIDERED (THE ORIGINAL SOURCE(FOR THE DIMENSIONING FOR THE PROJECT AND THEREBY WILL NORMALLY TAKE PRECEDENCE OVER THE DRAWINGS BY OTHERS ON THE DESIGN TEAM. THE DIMENSIONS INDICATED IN THESE STRUCTURAL DRAWINGS ARE TO DOCUMENT AND AID THE STRUCTURAL DESIGNER WITH THE DIMENSIONS USED FOR THE BASIC DESIGN OF THE STRUCTURAL SYSTEM. CONSTRUCTION AND DETAILING DIMENSIONS SHALL BE TAKEN (OR DERIVED) FROM THE (ORIGINAL SOURCE(DRAWINGS BY THE ARCHITECT OR LEAD DESIGNER. KYZER AND TIMMERMAN STRUCTURAL ENGINEERS PROVIDE STRUCTURAL ENGINEERING SERVICES AND SHALL NOT BE CONSIDERED THE LEAD DESIGNER, STRUCTURAL DETAILER OR BUILDING SURVEYOR FOR THIS PROJECT.

4. AS PART OF MEANS AND METHODS, THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN AND ERECTION OF TEMPORARY BRACING AND SHORING AS REQUIRED FOR STABILITY OF THE STRUCTURAL SYSTEM AND STRUCTURAL COMPONENTS DURING ALL PHASES OF CONSTRUCTION. WEATHERLY ENGINEERING LLC. ARE NOT PROVIDERS FOR THE DESIGN OF SHORING, SCAFFOLDING, FORMING OR PROJECT SAFETY. THOUGH A REPRESENTATIVE MAY VISIT THE SITE, OUR PERSONNEL ARE NOT HIRED OR TRAINED IN THE PROJECT SAFETY REQUIREMENTS AS REQUIRED BY REGULATIONS OR SPECIFIED BY THE CONTRACTOR AND/OR HIS SAFETY OFFICER(S). MEANS AND METHODS ARE SOLELY THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

5. THE ENGINEER'S APPROVAL OF SHOP DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR DEVIATIONS FROM REQUIRMENTS IN THE CONTRACT DOCUMENTS AND THE PROJECT SPECIFICATION REQUIREMENTS. THOUGH THE SHOP DRAWINGS MAY BE APPROVED BY THE STRUCTURAL ENGINEER, THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ERRORS OR OMISSIONS. CONTRACTOR DEVIATIONS TO THE CONTRACT DOCUMENTS MUST BE SUBMITTED SEPARATELY FOR APPROVAL TO BRING ATTENTION TO THE DEVIATION. IT IS THE CONTRACTORS DUTY TO CHECK, VERIFY, CONFIRM AND COORDINATE ALL DIMENSIONS AND DETAILS, TAKE FIELD MEASUREMENTS, VERIFY FIELD CONDITIONS AND COORDINATE HIS WORK WITH THAT OF OTHER CONTRACTORS AND/OR SUBCONTRACTORS FOR THIS PROJECT.

6. THE STRUCTURAL DRAWINGS AND RELATED INFORMATION SHALL BE USED IN CONJUNCTION WITH ALL ARCHITECTURAL DRAWINGS AS WELL AS OTHER INFORMATION AND DOCUMENTS RELATING TO ALL TRADES. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING HIS OWN VERIFICATION AND COORDINATION OF DIMENSIONS, FIELD CONDITIONS, CLEARANCES, ETC. WITH THE WORK ALL TRADES. IN CASE OF CONFLICT OR UNEXPECTED FIELD CONDITIONS, CONTACT ARCHITECT AND/OR ENGINEER. IN THE OPINION OF THE CONTRACTOR, ANY CONDITIONS WHICH MAY APPEAR TO BE AN OMISSION, DEFICIENCY OR AMBIGUITY IN THE DESIGN DOCUMENTS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR LEAD DESIGNER, IN THE FORM OF AN (RFI((REQUEST FOR INFORMATION) FOR CLARIFICATION. INTERPRETATIONS OR ADDITIONAL INFORMATION MAY BE ISSUED BEFORE THAT PORTION OF THE WORK MAY PROCEED. WORK PERFORMED BY THE CONTRACTOR NOT IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS MAY REQUIRE AN ENGINEERING EVALUATION, TESTING OR REMOVAL AT THE EXPENSE OF THE CONTRACTOR. THE ARCHITECTURAL DRAWINGS ARE CONSIDERED THE LEAD DRAWINGS FOR PROJECT INCLUDING DIMENSIONS AND BUILDING LAYOUT/PLACEMENT. THE CONTRACTOR MUST LAYOUT THE BUILDING AND BUILDING COMPONENTS PER THE INFORMATION PROVIDED IN THE ARCHITECTURAL DRAWINGS. DO NOT RELY SOLELY ON THE STRUCTURAL DRAWINGS FOR BUILDING LAYOUT, EQUIPMENT LAYOUT AND SO ON. AN ARCHITECTURAL (ADDENDUM(MAY CAUSE A CHANGE IN THE DIMENSIONS FOUND IN THE STRUCTURAL DRAWINGS.

7. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR ALL WALL OPENINGS INCLUDING DOORS AND WINDOWS. REFER TO ELECTRICAL AND MECHANICAL PLANS AND/OR REQUIREMENTS FOR SIZE AND LOCATION OF ALL OPENINGS FOR DUCTS, PIPING, CONDUCTS, ETC.

8. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL AND/OR VENDER DRAWINGS FOR LOCATIONS OF DEPRESSED FLOOR AREAS, FLOOR DRAINS, FLOOR TOPPINGS, CMU COURSING AND ANY OTHER DETAILS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

9. THE CONTRACTOR SHALL PAY CLOSE ATTENTION AS TO SUBSTRATE AND FINISHING REQUIREMENTS REQUIRED FOR MATERIALS ATTACHED AND/OR APPLIED TO STRUCTURAL MATERIALS AND COMPONENTS.

10. THESE STRUCTURAL DRAWINGS ARE BASED ON THE LATEST INFORMATION/ARCHITECTURAL DRAWINGS PRIOR TO THE SUBMITTAL DATE. SOME DIMENSIONS FOUND IN THESE DRAWINGS MAY HAVE BEEN VERBALLY COMMUNICATED BY THE ARCHITECT OR TAKEN DIRECTLY FROM ELECTRONIC FILES SUPPLIED BY THE ARCHITECT. GENERAL CONTRACTOR AND SUBCONTRACTORS ARE ADVISED TO USE THE ARCHITECTURAL DRAWINGS AS THE BASIS FOR THE DIMENSIONS ON THIS PROJECT. TYPICALLY, THE ARCHITECTURAL DRAWINGS ARE CONSIDERED THE LEAD DRAWINGS FOR DIMENSIONING.

11. THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE AND SHALL NOT BE REPRODUCED, ALTERED OR REUSED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF WEATHERLY ENGINEERING. THESE STRUCTURAL DRAWINGS ARE PROTECTED THROUGH THE U.S. GOVERNMENT COPYRIGHT LEGISLATION. THE DETAILS AND NOTES INDICATED IN THESE DRAWINGS ARE PART OF AN OVERALL COPYRIGHT REGISTERED WITH 'THE UNITED STATES COPYRIGHT OFFICE, THE LIBRARY OF CONGRESS' COPYRIGHT 2017 - WEATHERLY ENGINEERING (843) 448-3428 / 791-4522 FAX

12. QUESTIONS RELATING TO THESE STRUCTURAL DRAWINGS MAY BE SUBMITTED IN WRITING, THROUGH THE ARCHITECT OR PRIME PROFESSIONAL TO THE STRUCTURAL ENGINEER. THE STRUCTURAL ENGINEER SHALL BE COPIED AT:

WEATHERLY ENGINEERING LLC.
514 ALDER STREET
MYRTLE BEACH, SC 29577
(843) 448-3428 (803)
(843) 445-9116 (FAX)

GEOTECHNICAL:

1. THE CONTRACTOR SHALL FOLLOW ALL RECOMMENDATIONS INDICATED IN THE GEOTECHNICAL REPORT WHICH SHALL BE CONSIDERED AN INTEGRAL PART OF THESE CONTRACT DOCUMENTS. REFERENCE IS MADE TO GEOTECHNICAL REPORT BY S&ME, PROJECT #23630044, DATED MAY 05, 2025. FOUNDATION DESIGN IS BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.

2. A GEOTECHNICAL ENGINEER AND/OR TESTING LABORATORY SHALL BE RETAINED FOR THE PURPOSES OF ASSURING ADEQUATE SOIL SUPPORT FOR FOUNDATION AND SLABS-ON-GRADE (INCLUDING EXTERIOR CONCRETE PADS). A COPY OF ALL TEST REPORTS SHALL REMAIN ON FILE AT THE JOB SITE AVAILABLE FOR THE DESIGN TEAM. ANY TESTS DEEMED UNACCEPTABLE SHALL BE COPIED AND SENT TO THE ARCHITECT AND STRUCTURAL ENGINEER. THE CONTRACTOR SHALL FORWARD COPIES OF ALL REPORTS TO THE OWNER AS REQUIRED BY THEIR AGREEMENT.

3. ANY ELEVATIONS INDICATED ON THE FOUNDATION PLANS TYPICALLY REFER TO TOP OF FOOTING. ALL FOOTINGS SHALL EXTEND BELOW FROST DEPTH AND DOWN TO SOLID BEARING MATERIAL REGARDLESS OF ELEVATIONS SHOWN. SEE GEOTECHNICAL REQUIREMENTS BY GEOTECHNICAL ENGINEER AS NEEDED FOR PROPER COMPACTION AND PREPARATION OF SOILS.

4. TOP OF ALL SPREAD FOOTINGS SHALL BE A MINIMUM OF 8' BELOW FINISHED GRADE UNLESS NOTED OTHERWISE (UNO).

5. THE SIDES OF FOUNDATION CONCRETE MAY BE EARTH FORMED PROVIDED THE EXCAVATION CAN BE SAFELY KEPT VERTICAL, CLEAN AND STABLE, OTHERWISE, FORMS MUST BE USED. REFER TO GEOTECHNICAL ENGINEER FOR ADDITIONAL INFORMATION AS REQUIRED.

6. WEATHERLY ENGINEERING LLC. ARE NOT RESPONSIBLE FOR TRASH, DEBRIS, SOFT AREAS FOR ANY OTHER ANOMALY WHICH MAY FOUND UNDER THE BUILDING SITE WHETHER PLACED THERE OR NATURALLY OCCURRING.

7. THIS FOUNDATION DESIGN IS BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF AS INDICATED IN THE GEOTECHNICAL REPORT.

CONCRETE:

1. ALL CONCRETE AND REINFORCING BARS SHALL BE INSTALLED ACCORDING TO STANDARDS SET FORTH BY THE LATEST EDITION OF ACI-318.

2. REINFORCEMENT SHALL BE HELD IN PLACE DURING CONCRETE PLACEMENT. IF REQUIRED, ADDITIONAL BARS MAY BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR ALL BARS.

3. 28 DAY MINIMUM CONCRETE COMPRESSIVE STRENGTH SHALL BE AS FOLLOWS:

FOOTINGS	3000 PSI
SLABS ON GRADE	4000 PSI
STEPS ON GRADE	4000 PSI

4. THE CONTRACTOR SHALL TAKE ADDITIONAL PRECAUTIONS WHEN CONCRETE IS TO BE PLACED AND CURED DURING COLD OR HOT WEATHER. THE CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS PRESCRIBED BY AMERICAN CONCRETE INSTITUTE FOR COLD OR HOT WEATHER CONSTRUCTION.

5. NO ADDITIONAL WATER SHALL BE ADDED TO THE CONCRETE ABOVE THAT PRESCRIBED IN THE MIX DESIGN UNLESS APPROVED BY THE ARCHITECT OR STRUCTURAL ENGINEER.

6. REINFORCING STEEL SHALL BE GRADE 60, MINIMUM LAP IN CONCRETE SHALL BE IN ACCORDANCE W/ ACI-318.

7. WELDED WIRE FABRIC SHALL BE LAPPED A MINIMUM OF 1'-0".

8. EXTERIOR CONCRETE PADS SHALL BE SIZED AND LOCATED PER THE CONTRACT DOCUMENTS AND/OR EQUIPMENT SPECIFICATIONS. PLEASE SEE DRAWINGS BY ARCHITECT AND/OR MECHANICAL/ELECTRICAL ENGINEERS IN ADDITION TO THE STRUCTURAL AND ARCHITECTURAL DRAWINGS.

9. THE GENERAL CONTRACTOR SHALL SUBMIT REBAR SHOP DRAWINGS SHOWING NUMBER, SIZE AND LOCATION, INCLUDING BAR LISTS AND DIAGRAMS, TO THE ARCHITECT FOR APPROVAL. THE STRUCTURAL DRAWINGS ARE NOT TO BE REPRODUCED FOR SHOP DRAWINGS, SECTION SHEETS OR ERECTION PLANS. SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY THE CONTRACTOR FOR (BUT NOT LIMITED TO) DIMENSIONS, ELEVATIONS, AND ERECTION PROCEDURES PRIOR TO ARCHITECT & STRUCTURAL ENGINEER'S REVIEW. AMPLE TIME, AS DETERMINED BY THE STRUCTURAL ENGINEER, SHALL BE ALLOTTED FOR HIS REVIEW OF SHOP DRAWINGS. THE CONTRACTOR MAY ISSUE SHOP DRAWINGS EARLY IN THE SCHEDULE TO ALLOW FOR ADEQUATE FABRICATION TIME.

10. ALL SLAB DOWELS IN EXPANSION JOINTS SHALL BE STRAIGHT, SMOOTH AND FREE OF BURRS. SLAB DOWELS SHALL BE PROPERLY SUPPORTED DURING CONSTRUCTION AND PROPERLY ALIGNED TO KEEP DOWELS PARALLEL TO THE DIRECTION OF EXPECTED MOTION.

11. PROVIDE PROPERLY TIED SPACERS, CHAIRS, BOLSTERS, ETC. AS REQUIRED AND NECESSARY TO ASSEMBLE, PLACE AND SUPPORT ALL REINFORCING. USE WIRE BAR TYPE SUPPORTS COMPLYING WITH CRSI RECOMMENDATIONS-USE PLASTIC TIP LEGS ON ALL EXPOSED CONCRETE.

12. SEE ARCHITECTURAL DRAWINGS FOR REQUIRED CONCRETE FINISH/COLOR, SPECIAL FLATNESS REQUIREMENTS, ETC. ALL CONCRETE SHALL BE PROPERLY CURED IMMEDIATELY AFTER FINISHING.

13. A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO COLLECT CYLINDERS AND PERFORM THE NECESSARY CONCRETE TESTS. A MINIMUM OF FOUR CYLINDERS SHALL BE TAKEN FOR EVERY 50 CUBIC YARDS (OR FRACTION THEREOF)OF EACH CONCRETE TYPE/STRENGTH SUPPLIED. THE CONCRETE CYLINDERS SHALL BE TAKEN AFTER WATER AND ADMIXTURES (IF ANY) ARE ADDED TO THE MIX. IT IS RECOMMENDED THAT ONE CYLINDER SHALL BE TESTED AT 7 DAYS, TWO AT 28 DAYS AND HOLD THE FINAL CYLINDER IN RESERVE. IT IS RECOMMENDED THAT TEST REPORTS SHALL BE SENT DIRECTLY TO THE GENERAL CONTRACTOR, OWNER, ARCHITECT AND STRUCTURAL ENGINEER. ANY CYLINDER BREAKS (INCLUDING 7 AND 14 DAY BREAKS) SHALL BE FLAGGED AND BROUGHT TO THE ATTENTION OF THE APPROPRIATE DESIGN PROFESSIONAL.

14. THE CONTRACTOR, CONCRETE SUPPLIERS AND ALL RELATED SUBCONTRACTORS SHALL BE EXPERIENCED IN THE USE OF CONCRETE ADMIXTURES, SEALERS, CURING COMPOUNDS, ETC. AS SPECIFIED IN THE CONTRACT DOCUMENTS OR IN THE CONCRETE MIX.

15. UNLESS SPECIFIED OTHERWISE, THE CONTRACTOR SHALL SPACE SLAB-ON-GRADE JOINTS NOT EXCEED 36 TIMES THE SLAB THICKNESS PER ACI (AMERICAN CONCRETE INSTITUTE). THE WIDTH TO LENGTH OF JOINTED SECTIONS SHALL NOT EXCEED THE RATIO OF 1 TO 1-1/2.

16. ALL ANCHOR BOLTS SHALL EXTEND TO BOTTOM OF FOOTING - THE CONTRACTOR SHALL PROVIDE 3 INCHES OF CONCRETE COVER. DEPENDING ON THE METHOD OF CONSTRUCTION AND FIELD CONDITIONS, THE CONTRACTOR MAY BE REQUIRED TO INSTALL LEVELING NUTS AND NON-SHRINK GROUT AS NEEDED TO PROVIDE ADEQUATE CONTACT BELOW ALL STEEL COLUMN BASE PLATES.

CMU MASONRY & ANCHORED VENEER:

1. THE MASONRY DIMENSIONS ON THIS PROJECT ARE CONSIDERED AS NOMINAL DIMENSIONS. THE SHAPE AND ACTUAL SIZE OF THE MASONRY UNITS SHALL BE CONSIDERED IN THE BUILDING AND WALL LAYOUT PLAN.

2. FILL ALL CELLS BELOW FLOOR (AND GRADE) LEVEL OR CONTAINING REBAR WITH 2500 PSI GROUT. GROUT SHALL BE PLACED IN LIFTS NO HIGHER THAN 5 FEET. MASONRY UNITS SHALL BE CLEAN AND DRY. 2 HOUR (AND HIGHER) FIRE RATED MASONRY WALLS SHALL HAVE ALL CELLS GROUT FILLED.

3. THE CONTRACTOR SHALL INSTALL SUFFICIENT REBAR PLACEMENT WALL TIES TO ENSURE THE PROPER PLACEMENT OF ALL HORIZONTAL AND VERTICAL REBAR.

4. ALL MASONRY ACCESSORIES (INCLUDING LINTEL PLATES AND ANGLES) SHALL BE GALVANIZED. HORIZONTAL BED JOINT REINFORCEMENT SHALL BE GALVANIZED AS REQUIRED BY APPLICATION, MANUFACTURER(S RECOMMENDATIONS AND APPLICABLE BUILDING CODES. ALL LINTEL PLATES AND ANGLES SHALL HAVE A MINIMUM THICKNESS OF 3/8" THICK UNLESS OTHERWISE NOTED.

5. THE GENERAL CONTRACTOR SHALL SUBMIT REBAR SHOP DRAWINGS SHOWING NUMBER, SIZE AND LOCATION, INCLUDING BAR LISTS AND DIAGRAMS, TO THE ARCHITECT FOR APPROVAL. THE STRUCTURAL DRAWINGS ARE NOT TO BE REPRODUCED FOR SHOP DRAWINGS, SECTION SHEETS OR ERECTION PLANS. SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY THE CONTRACTOR FOR (BUT NOT LIMITED TO) DIMENSIONS, ELEVATIONS, AND ERECTION PROCEDURES PRIOR TO ARCHITECT & STRUCTURAL ENGINEER'S REVIEW.

6. MASONRY REBAR LAP SPLICES SHALL BE:

#4 BARS	= 24" LAP
#5 BARS	= 30" LAP
#6 BARS	= 48" LAP
#7 BARS	= 60" LAP
#8 BARS	= 90" LAP

CMU MASONRY & ANCHORED VENEER CONTINUED:

7. CONCRETE MASONRY TO HAVE A MINIMUM F'm OF 1500 PSI. THIS IS TO BE ACHIEVED BY USING A CONCRETE BLOCK MASONRY UNIT WITH A NET AREA COMPRESSIVE STRENGTH OF 2000 PSI WHEN USED IN CONJUNCTION WITH TYPE M OR S MORTAR.

8. ALL MASONRY SHALL BE PLACED IN FULL MORTAR BED. ALL MORTAR SHALL BE TYPE 'M' OR 'S'.

9. THE CONTRACTOR SHALL TAKE ADDITIONAL PRECAUTIONS WHEN MASONRY IS TO BE CONSTRUCTED DURING COLD WEATHER (AMBIENT TEMPERATURE BELOW 40 DEGREES FAHRENHEIT). DURING HOT CONDITIONS (ABOVE 90 DEGREES) PRECAUTIONS SHALL BE TAKEN TO MINIMIZE EXCESS HEAT IN THE MASONRY UNITS, WATER AND MORTAR. IT IS ADVISED THAT THE CONTRACTOR FOLLOW THE RECOMMENDATIONS PRESCRIBED BY AMERICAN CONCRETE ASSOCIATION FOR COLD OR HOT WEATHER CONSTRUCTION.

10. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY WALLS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

11. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY CONTROL JOINTS & BRICK EXPANSION JOINTS. ALL CONTROL JOINTS AND EXPANSION JOINTS SHALL BE INSTALLED IN ACCORDANCE TO THE STANDARDS SET FORTH BY THE NATIONAL CONCRETE MASONRY ASSOCIATION. IN NO CASE SHALL EXTERIOR WALL JOINTS BE SPACED GREATER THAN 25 FEET ON CENTER AND INTERIOR WALL JOINTS SHALL NOT EXCEED 30 FEET ON CENTER. REINFORCED BOND BEAMS LOCATED AT ROOF AND/OR FLOOR DIAPHRAGMS SHALL BE CONTINUOUS THROUGH MASONRY JOINTS UNLESS OTHERWISE SPECIFIED IN THE STRUCTURAL DRAWINGS.

12. RUNNING BOND MASONRY TO HAVE 9 GAGE LADDER TYPE JOINT REINFORCEMENT @ 16" ON CENTER VERTICALLY. PREFORMED BED JOINT REINFORCEMENT SHALL BE USED AT ALL WALL CORNERS AND INTERSECTIONS. ALL GAGE WIRE LADDER TYPE BED JOINT REINFORCEMENT SHALL BE LAPPED A MINIMUM OF 8 INCHES.

13. ALL ANGLE LINTELS SUPPORTING MASONRY VENEERS SHALL BEAR A MINIMUM OF 6 INCHES.

14. FOR STUD WALLS BACKING UP BRICK VENEER, ONE HALF INCH EXTERIOR GRADE PLYWOOD OR ONE HALF INCH APA RATED OSB BOARD SHALL BE ATTACHED TO THE STUDS WITH FASTENERS AS INDICATED IN THE BUILDING CODE (UNLESS OTHERWISE NOTED IN THESE DRAWINGS). GALVANIZED SEISMIC METAL TIES SHALL BE USED IN THE WALL ASSEMBLY TO TIE THE BRICK BACK TO THE SHEATHING/STUDS. THESE TIES SHALL BE SPACED AT 16" ON CENTER VERTICALLY AND HORIZONTALLY. A CONTINUOUS SINGLE-WIRE JOINT REINFORCEMENT OF MINIMUM WIRE SIZE OF W1.7 SHALL BE INSTALLED IN THE BED JOINT OF THE BRICK AND ATTACHED TO THE BRICK TIES. FOR OPENINGS THE BRICK TIES MAY NOT BE SPACED FURTHER THAN 16 INCHES ON CENTER AND 12 INCHES FROM EDGE OF OPENING.

15. GALVANIZED SEISMIC METAL TIES SHALL BE USED IN THE WALL ASSEMBLY TO TIE THE VENEER BACK TO THE WALL SYSTEM. THESE TIES SHALL BE SPACED NO FURTHER THAN AT 16" ON CENTER VERTICALLY AND HORIZONTALLY. A CONTINUOUS SINGLE-WIRE JOINT REINFORCEMENT OF MINIMUM WIRE SIZE OF W1.7 SHALL BE INSTALLED IN THE BED JOINTS AND ATTACHED TO THE BRICK TIES. FOR OPENINGS THE BRICK TIES MAY NOT BE SPACED FURTHER THAN 16 INCHES ON CENTER AND 12 INCHES FROM EDGE OF OPENING. FOR ARCHES AND LINTELS WITH MASONRY FORMING THE HEAD OF THE OPENING, THE CONTRACTOR SHALL INSTALL MASONRY TIES AT EACH BRICK JOINT TO ADEQUATELY SUSPEND/SUPPORT THE BRICK IN PLACE AS INTENDED IN THE ARCHITECTURAL DRAWINGS.

COLD-FORMED STEEL FRAMING/ METAL STUDS:

1. THE METAL STUD FRAMING IS CONSIDERED AN ENGINEERED SYSTEM DESIGNED BY THE METAL STUD FRAMING DESIGN ENGINEER EMPLOYED BY THE CONTRACTOR OR HIS SUBCONTRACTOR. THE METAL STUDS AND RECOMMENDATIONS INDICATED IN THESE DRAWINGS ARE TO BE CONSIDERED AS THE MINIMUM ALLOWED BY THE ENGINEER OF RECORD FOR THE PROJECT. DUE TO VARYING MANUFACTURERS AND SUBCONTRACTOR PREFERENCE THE CONTRACTOR SHALL SUBMIT AN ENGINEERED DESIGN FOR THE METAL STUD SYSTEM TO BE USED FOR THIS PROJECT. THE STRUCTURAL DESIGN SHALL INCLUDE COMPLETED DETAILS AND DESIGN REGARDING THE STUDS, CLIPS, TRACKS, BRACING, ANCHORS, LINTELS, SCREWS AND SO ON. SHORING REQUIREMENTS RELATED TO THE METAL STUD FRAMING, FOR ALL PHASES OF THE WORK, SHALL BE INCLUDED AS PART OF THE METAL STUD DESIGN. THE FINAL DESIGN SHALL BE STAMPED BY A REGISTERED ENGINEER (REGISTERED IN THE PROJECT STATE).

2. ALL LOAD BEARING STEEL STUDS SHALL BE SQUARELY SEATED IN THE UPPER AND LOWER TRACKS WITH THE STUD WEB AND FLANGE ABUTTING THE TRACKS. THIS IS DONE TO DELIVER COMPRESSION LOADS THRU BEARING OF THE STUDS - NOT THE FASTENERS. THESE STUDS SHALL BE ATTACHED TO THE TRACKS WITH TWO FASTENERS AT EACH CONNECTION. THIS INCLUDES LOCATIONS OF DOUBLE AND GANGED STUDS. STUD CLIP ANGLES SHALL BE USED TO SECURE THE STUD WEB TO THE LOWER TRACK. THIS CLIP ANGLE SHALL BE ATTACHED TO THE STEEL STUD WEB WITH TWO #10 SCREWS. THE CLIPS HORIZONTAL LEG SHALL BE ATTACHED THROUGH THE LOWER TRACK INTO THE CONCRETE OR STEEL BELOW WITH A MINIMUM OF TWO PAF. FASTENERS. THESE FASTENERS SHALL BE SPACED NO CLOSER THAN 3 INCHES APART UNLESS OTHERWISE ALLOWED BY THE MANUFACTURER. ADDITIONAL PAF FASTENERS MAY BE REQUIRED PER THE STRUCTURAL DETAILS IN WHICH CASE THE CONTRACTOR SHALL INSTALL AN ADDITIONAL CLIP ON THE OPPOSITE SIDE OF THE STUD TO MAINTAIN THE REQUIRED 3 INCH SEPARATION BETWEEN FASTENERS. PAF FASTENERS SHALL BE INSTALLED TO ALLOW AT LEAST 2 INCHES CLEARANCE BETWEEN THE FASTENER AND THE EDGE OF CONCRETE TO PREVENT SPALDING OF THE CONCRETE EDGE. TRACKS SHALL BE ATTACHED TO THE STRUCTURE BY INSTALLING ONE PAF FASTENER CENTERED IN THE TRACK AND LOCATED BETWEEN TYPICALLY SPACED METAL STUDS (OR GANGED STUDS).

3. GAUGE STEEL FRAMING MEMBERS SHALL BE PROTECTED AGAINST RUSTING AND DAMAGE. IT IS RECOMMENDED THAT ALL MATERIAL SHALL BE DELIVERED TO THE PROJECT SITE IN BUNDLES, FULLY IDENTIFIED WITH NAME, BRAND, TYPE AND GRADE. STORE OFF GROUND IN A DRY VENTILATED SPACE AND/OR PROTECT WITH SUITABLE WATERPROOF COVERINGS. ALL METAL STUDS, TRACKS, CLIPS ETC. SHALL BE GALVANIZED. MINIMUM GALVANIZING FOR WALL SYSTEMS AND ASSEMBLIES SHALL BE AS FOLLOWS:

- G40 GALVANIZING RECOMMENDED FOR INTERIOR (INTERIOR/INTERIOR) WALL SYSTEMS.

- G60 GALVANIZING RECOMMENDED FOR EXTERIOR (INTERIOR/EXTERIOR) WALL SYSTEMS. (NOTE: G90 RECOMMENDED FOR BUILDINGS LOCATED WITHIN 3 MILES OF SALTWATER.)

- G90 GALVANIZING RECOMMENDED FOR ALL EXTERIOR (EXTERIOR/EXTERIOR) WALL SYSTEMS. THIS INCLUDES ALL WALLS AND OTHER METAL STUD FEATURES SUBJECT TO EXTERIOR CONDITIONS ON BOTH SIDES.

NOTE: THE GALVANIZING RECOMMENDED ABOVE IS TO BE CONSIDERED AS A MINIMUM PER THE STRUCTURAL ENGINEER OF RECORD FOR THE PROJECT. ADDITIONAL GALVANIZING AND PRECAUTIONS MAY BE REQUIRED PER THE ARCHITECT, MANUFACTURER AND/OR LOCAL AND STATE BUILDING CODES DEPENDING ON THE WALL SYSTEM/APPLICATION. IN ANY CASE, GALVANIZING MAY NOT PROVIDE THE INTENDED LONG TERM PROTECTION WITHOUT PROPER FLASHING, SEALING, CALKING ETC. THE CONTRACTOR SHALL PAY SPECIAL ATTENTION TO THE FABRICATION AND OVERALL CONSTRUCTION OF ALL METAL STUD WALL, TRUSS, SOFFITS, HEADERS AND THE LIKE TO ASSURE PROPER CONSTRUCTION AND PROTECTION OF METAL STUD ASSEMBLIES AND SYSTEMS. DUE TO THE QUANTITIES OF METAL STUDS FOUND IN AND ON THE PROJECT THE CONTRACTOR MAY ASSIGN ESPECIALLY SKILLED STAFF OR RETAIN AN INSPECTOR FOR THE PURPOSE OF PROVIDING THE PROJECT WITH CONTINUAL OBSERVATION OF THE CONSTRUCTION OF THE WALLS AND METAL STUD ASSEMBLIES FOR THIS PROJECT.

4. THE CONTRACTOR SHALL PROVIDE THE MANUFACTURERS STANDARD STEEL RUNNERS/TRACKS, BLOCKING, LINTELS, CLIP ANGLES, BRACING, REINFORCEMENTS, FASTENERS AND ACCESSORIES AS RECOMMENDED BY THE MANUFACTURER FOR THE APPLICATION TO PROVIDE A COMPLETE STRUCTURAL SYSTEM.

5. UNLESS OTHERWISE REQUIRED, SCREWS SHALL BE AS RECOMMENDED BY THE MANUFACTURER.

6. THE CONTRACTOR SHALL PROVIDE STANDARD STRUCTURAL STEEL 'C' SHAPED STEEL STUDS OF SIZE, SHAPE AND GAUGE INDICATED IN THE DRAWINGS. THE METAL STUDS SHALL HAVE (AS A MINIMUM) A NOMINAL 1-5/8" FLANGE WITH THE MANUFACTURER'S RECOMMENDED FLANGE RETURN LIP.

LOAD TABLE

2021 INTERNATIONAL BUILDING CODE AND ASCE 7-16

RISK CATEGORY: = II

BASIC LATERAL-FORCE RESISTING SYSTEM:
INTERMEDIATE REINFORCED MASONRY SHEARWALLS

LIVE LOADS:
1. FLOOR LOADS:
   A. Slab on Grade = 100 psf
2. ROOF LOADS:
   A. Basic roof live load = 20 psf

Note: It shall be unlawful to place, cause or permit to be placed, on any floor or roof of a building, structure, or portion thereof, a load greater than is permitted by these requirements. (per IBC)

DEAD LOADS:
1. USE ACTUAL DEAD LOADS OF MATERIALS

SNOW LOADS:
GROUND SNOW LOAD - Pg = 10 psf

WIND LOADS:
$V_{ultimate}$ = 145 (mph)
V_{ASD} = 114 (mph)
WIND EXPOSURE = C
In wind borne regions, glazed openings shall be protected in the accordance with IBC 2021, ASCE 7-16 & local codes/requirements.

INTERNAL PRESSURE COEFICIENT:
Enclosed Building +/- 18%

COMPONENTS & CLADDING (see chart below)

ZONE	C&C WIND PRESSURES (ALLOWABLE) BASED ON EFFECTIVE WIND AREA (psf)							
	$10ft^2$		$20ft^2$		$50ft^2$		$100ft^2$	
ROOF ①	+16	-59	+15	-55	+13	-50	+12	-46
ROOF ②	+16	-78	+15	-73	+13	-66	+12	-61
ROOF ③	+16	-106	+15	-96	+13	-83	+12	-73
WALL ④	+34	-41	+33	-39	+31	-37	+29	-35
WALL ⑤	+34	-50	+33	-47	+31	-42	+29	-39

a = width of pressure coeff. zone = 8 feet
Roof Net Uplift = (Zone Suction Reduced by Dead Load)
Pressures Shown are Based Upon ASD Design - Load Factor of 0.6

WALL AND ROOF ZONE DIAGRAM (FLAT ROOF)

THIS SHEET PLOTS ON 24"X36" ARCH D
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COLD-FORMED STEEL FRAMING/ METAL STUDS CONT.:

7. EXTERIOR WALL SYSTEMS SHALL BE DESIGNED TO WITHSTAND BOTH POSITIVE AND NEGATIVE WIND PRESSURES AS INDICATED IN THE LATEST EDITION OF THE APPLICABLE BUILDING CODE. CARE SHALL BE TAKEN IN THE DESIGN TO CONSIDER DEFLECTIONS OF THE WALL SYSTEMS UNDER LOADING AS IT RELATES TO THE PRESCRIBED DEFLECTION LIMITS AS INDICATED IN THE APPLICABLE BUILDING CODE.

8. THE CONTRACTOR SHALL INSTALL SUFFICIENT TEMPORARY BRACING, AS NEEDED, UNTIL ERECTION OF THE STEEL FRAMING SYSTEM(S) IS COMPLETE.

9. ALL ATTACHMENTS SHALL BE DONE BY WELDING, SCREW ATTACHMENT, OR BOLTING-NO WIRE TYING OF FRAMING COMPONENTS SHALL BE PERMITTED.

10. WALL BRIDGING FOR INTERIOR NON-LOAD BEARING METAL STUDS WALLS SHALL BE SPACED AND INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.

11. WALL BRIDGING FOR LOAD BEARING WALLS SHALL BE INSTALLED AT A MAXIMUM SPACING OF 48" ON CENTER. SHEATHING (OR GYPBOARD) AS INDICATED IN THE DRAWINGS SHALL BE INSTALLED TO ONE SIDE OF ALL LOAD BEARING WALLS PRIOR TO LOADING TO PREVENT MINOR AXIS STUD BUCKLING.

12. FOR WELDED CONNECTIONS, FUSION WELDING (E60 ELECTRODES) IS RECOMMENDED WITH A DIRECT CURRENT WELDER OF 200 OR MORE AMPERE CAPACITY, USE A HEAT OF 60 TO 90 AMPERES-DEPENDING ON THE GAUGE OF METAL.

PRE-MANUFACTURED LIGHT GAUGE TRUSSES/COMPONENTS:

1. THE LIGHT GAUGE TRUSS DESIGN SHEETS AND SHOP DRAWINGS SHALL BE SUBMITTED TO THE LEAD DESIGNER FOR THE PROJECT FOR APPROVAL PRIOR TO FABRICATION. THE FILE COPIES OF THE TRUSS DESIGNS, SHOP DRAWINGS AS WELL AS THE ERECTION PLANS (INCLUDING REQUIRED BRACING) SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROPOSED BUILDING. THE SHOP DRAWINGS SHALL INCLUDE THE TRUSS SHAPE, SPACING, SPAN, PITCH AND MEMBER CONFIGURATION FOR EACH TYPE OF TRUSS. ALL BEARING DETAILS, ANCHORAGE, SUPPLEMENTAL STRAPPING, CLIPS AND OTHER ACCESSORIES SHALL BE CLEARLY INDICATED IN THE SHOP DRAWING SUBMITTAL. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR ALLOW HIS SUBCONTRACTORS TO PROCEED TO ERECT TRUSSES WITHOUT THE GUIDANCE OF THE TRUSS DESIGNER OR AN EXPERIENCED BRACING ENGINEER.

THE CONSTRUCTION DOCUMENTS ISSUED BY THE ARCHITECT AND/OR STRUCTURAL ENGINEER INDICATE LOCATIONS OF ROOF SHEATHING AND FLOORING WHICH MAY BE CONSIDERED BY THE TRUSS SUPPLIER FOR PROVIDING PERMANENT BRACING FOR THE APPLICABLE CHORDS OF THE TRUSSES AND OTHER RELATED COMPONENTS. THE ADDITIONAL PERMANENT BRACING REQUIRED TO BRACE THE MEMBERS OF THE STEEL TRUSSES, PIGGY-BACK TRUSSES, GABLE ENDS, ETC. SHALL BE DESIGNED AND SUPPLIED BY THE CONTRACTOR OR HIS SUBCONTRACTOR(S). ALL THE REQUIRED PERMANENT BRACING CANNOT BE DETERMINED IN THE CONSTRUCTION DOCUMENTS SINCE IT IS DEPENDENT UPON THE DESIGN OF THE TRUSSES, GIRDERS, AND OTHER RELATED COMPONENTS. FOR THIS REASON, IT IS REQUIRED THAT THE DESIGN AND MATERIALS ASSOCIATED WITH THE PERMANENT BRACING SHALL BE INCLUDED IN THE SCOPE OF WORK FOR THE TRUSS SUPPLIER AND/OR TRUSS AND BRACING DESIGNER. ALL DESIGNERS SHALL BE REGISTERED IN THE PROJECT STATE. DESIGN FEES ASSOCIATED WITH THIS WORK SHALL BE PART OF THE CONTRACT.

2. ENDS OF ALL ROOF TRUSSES AND RAFTERS SHALL BE ANCHORED WITH WIND UPLIFT ANCHORS BY SIMPSON OR EQUAL. SUCH ANCHORS SHALL BE USED @ JOINTS BETWEEN PLATES, STUDS AND SILL PLATES TO PROVIDE AN UNBROKEN PATH OF UPLIFT RESISTANCE FROM THE ROOF TO THE FOUNDATION. THE CONTRACTOR AND HIS SUBCONTRACTOR SHALL PROVIDE AND INSTALL ALL ADDITIONAL STRAPS, CLIPS, CONNECTORS, ANCHORS AND ANCHOR BOLTS AS NEEDED IN ADDITION TO THOSE SPECIFIED IN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS.

3. THE CONTRACTOR AND HIS SUBCONTRACTOR/TRUSS ERECTOR SHALL EXAMINE AND VERIFY THAT THE BEARING SURFACES OF THE SUBSTRUCTURE HAVE NO APPARENT ERRORS OR DEFECTS WHICH MAY LEAD TO SUBSTANDARD WORKMANSHIP. ANY UNSUITABLE OR UNSATISFACTORY CONDITIONS SHALL BE REPORTED TO THE ARCHITECT OR LEAD PROFESSIONAL.

4. TRUSSES SHALL BE FABRICATED, TRANSPORTED AND ERECTED PER DIRECTION OF THE TRUSS DESIGNER/ERECTOR. TRUSSES SHALL BE TRUE, PLUMB, BRIDGED AND BRACED IN ACCORDANCE WITH STANDARD PRACTICE AND THE APPROVED SHOP DRAWINGS. TRUSS MANUFACTURER/ DESIGNER TO COORDINATE ALL DIMENSIONS TO ASSURE PROPER FIT OF THE TRUSSES AND COMPONENTS.

5. TRUSS MANUFACTURER TO DETERMINE & LOCATE ALL POINT LOADS ON TRUSSES AND TRUSS GIRDERS.

6. NO OPENINGS, NOTCHES OR MODIFICATIONS IN TRUSSES/COMPONENTS SHALL BE FIELD CUT WITHOUT WRITTEN PERMISSION BY THE COMPONENT DESIGNER.

7. GAUGE STEEL FRAMING MEMBERS/TRUSSES SHALL BE PROTECTED AGAINST RUSTING AND DAMAGE. MATERIAL SHALL BE DELIVERED TO THE PROJECT SITE FULLY IDENTIFIED WITH MARKINGS AND STORED OFF GROUND IN A DRY VENTILATED SPACE OR PROTECT WITH SUITABLE WATERPROOF COVERINGS.

8. THE TOP CHORD OF ALL TRUSSES SHALL BE A MINIMUM OF 18 GAGE. ALL BOTTOM CHORDS SHALL BE A MINIMUM OF 20 GAGE.

MASONRY INSPECTION FREQUENCY CHART

INSPECTION TASK	FREQUENCY OF INSPECTION: CONTINUOUS DURING TASK LISTED	FREQUENCY OF INSPECTION: PERIODICALLY DURING TASK LISTED
AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:		
1. PROPORTIONS OF SITE-PREPARED MORTAR	—	REQ'D
2. CONSTRUCTION OF MORTAR JOINTS	—	REQ'D
3. LOCATION OF REINFORCEMENT & CONNECTORS	—	REQ'D
THIS INSPECTION PROGRAM SHALL VERIFY:		
A. SIZE & LOCATION OF STRUCTURAL ELEMENTS	—	REQ'D
B. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION	—	REQ'D
C. SPECIFIED SIZE, GRADE & TYPE OF REINFORCEMENT	—	REQ'D
D. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEG. F.) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEG. F.).	—	REQ'D
PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:		
A. GROUT SPACE IS CLEAN	—	REQ'D
B. PLACEMENT OF REINFORCEMENT AND CONNECTORS	—	REQ'D
C. PROPORTIONS OF SITE PREPARED GROUT	—	REQ'D
D. CONSTRUCTION OF MORTAR JOINTS	—	REQ'D
GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS:	REQ'D	—
PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR, SPECIMENS AND/OR PRISMS SHALL BE OBSERVED:	REQ'D	—
COMPLIANCE WITH REQUIRED INSPECTIONS PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED:	—	REQ'D

STRUCTURAL AND MISCELLANEOUS STEEL:

1. UNLESS NOTED OTHERWISE, STRUCTURAL STEEL GRADES FOR ALL STEEL SHALL BE AS INDICATED BELOW:

A. ANCHOR BOLTS .....F1554 GRADE 36
B. CONNECTION BOLTS .....A325 OR A490
C. PLATES AND FLAT BARS A36
D. STEEL PIPE .....A53, TYPE E OR S, GRADE B, FY=35KSI
E. STRUCTURAL TUBING (HSS)??? .A500, GRADE B, FY=46 KSI
F. WIDE FLANGE SHAPES .... ??? ..A992, GRADE 50
G. OTHER ROLLED SHAPES.....A36

2. WASHERS SHALL CONFORM TO ASTM AND INSTALLED AS FOLLOWS:

A. A HARDENED WASHER SHALL BE INSTALLED UNDER THE TURNED ELEMENT FOR IN CONNECTIONS WHERE BOTH OUTER PLIES HAVE ROUND HOLES.

B. A HARDENED WASHER SHALL BE PLACED AT LOCATIONS WHERE AN OVERSIZED HOLE OR SHORT SLOTTED HOLE IS USED.

C. IN ADDITION, A 5/16" THICK PLATE WASHER SHALL BE PLACED OVER LONG SLOTTED HOLES.

3. THE CONTRACTOR SHALL SUBMIT DETAILED STRUCTURAL STEEL SHOP DRAWINGS TO INCLUDE (BUT NOT LIMITED TO) COLUMNS, BEAMS, JOISTS, BRIDGING, DECKING, STAIRS, STAIR LANDINGS AND ALL CONNECTIONS.

7. ALL SHOP & FIELD WELDING SHALL BE PERFORMED BY QUALIFIED PERSONNEL IN ACCORDANCE WITH A.W.S. SPECIFICATIONS-LATEST EDITION. BOTH SHOP AND FIELD WELDER CERTIFICATIONS SHALL BE CURRENT THROUGH THE DURATION OF THE STEEL WORK. THE CONTRACTOR SHALL KEEP ON SITE ALL WELDER CERTIFICATIONS (SHOP AND FIELD) AND SHALL BE MADE AVAILABLE UPON REQUEST OF THE ARCHITECT AND/OR STRUCTURAL ENGINEER.

8. TO PREVENT FIELD FIT-UP AND PLACEMENT ISSUES THE STRUCTURAL STEEL SHOP DRAWINGS SHALL BE CAREFULLY COORDINATED WITH ANY OTHER COMPONENT DRAWINGS-INCLUDING BARJOIST AND DECKING SHOP DRAWINGS. THIS DETAILED COORDINATION IS TO BE PERFORMED BY THE STRUCTURAL STEEL SHOP DRAWING PROVIDER. THE PROVIDERS OF BARJOIST AND DECKING SHOP DRAWINGS (AND OTHER COMPONENTS) SHALL BACK CHECK THE STRUCTURAL STEEL SHOP DRAWINGS AS A SECONDARY VERIFICATION. THE GENERAL CONTRACTOR SHALL PROVIDE HIS OWN CHECK PRIOR TO COMPLETION OF THE SHOP DRAWING PROCESS.

9. ALL STEEL DETAILS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF A.I.S.C. SPECIFICATIONS.

10. FIELD SPLICES SHALL BE DESIGNED AND CONSTRUCTED TO DEVELOP THE FULL CAPACITY OF THE MEMBER IN BENDING, SHEAR AND AXIAL LOADS.

11. IN THE ABSENCE OF SPECIFIC CAMBER REQUIREMENTS, THE STEEL SHALL BE FABRICATED AND ERECTED WITH MILL CAMBER UP.

12. ALL FRAMING AND MISCELLANEOUS STEEL SHALL BE FILLET WELDED ALL AROUND UNLESS OTHERWISE NOTED. WELD SIZE SHALL BE THE MAXIMUM AS ALLOWED BY THE LATEST EDITION OF THE 'MANUAL OF STEEL CONSTRUCTION' BASED ON THE MATERIAL THICKNESS. ALL WELDING SHALL BE DONE WITH E-70 ELECTRODES.

13. ALL CAP PLATES FOR STEEL COLUMNS SHALL HAVE A MINIMUM THICKNESS OF 3/4" THICK UNLESS OTHERWISE NOTED IN THE DETAILS.

14. SHOP AND FIELD CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS MAY BE WELDED OR BOLTED. WELDING SHALL BE DONE WITH E-70 ELECTRODES. CUTS, HOLES, COPING, ETC. REQUIRED FOR WORK OF OTHER TRADES, ROOF LINES OR BUILDING GEOMETRY SHALL BE SHOWN ON THE STRUCTURAL STEEL SHOP DRAWINGS AND FABRICATED IN THE SHOP. FIELD CUTTING AND/OR BURNING IS NOT PERMITTED WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD FOR THE PROJECT OR A STRUCTURAL ENGINEER REGISTERED IN THE PROJECT STATE.

15. STEEL BEAM CONNECTIONS - ALL END REACTION CONNECTIONS FOR UNIFORMLY LOADED STEEL BEAMS AND GIRDERS SHALL BE DESIGNED BASED ON THE END REACTION OF THE UNIFORMLY LOADED MEMBER FOR ITS SPAN (PER AISC MANUAL OF STEEL CONSTRUCTION- LATEST EDITION). NON-UNIFORM LOADED STEEL BEAMS (TRANSFER BEAMS) SHALL HAVE END REACTION CONNECTIONS BASED ON THE MAXIMUM SHEAR CAPACITY OF THE BEAM- REGARDLESS OF THE SPAN. ALL CONNECTIONS SHALL BE BOLTED USING 3/4" DIAMETER A-325 BOLTS (AS A MINIMUM). ALL CONNECTIONS, INCLUDING SPLICES, SHALL BE DESIGNED BY A REGISTERED ENGINEER LICENSED IN THE PROJECT STATE.

17. FULL HEIGHT WEB STIFFENER PLATES SHALL BE INSTALLED ON BOTH SIDES OF ALL STEEL BEAMS AT BEAM SUPPORTS AND LOCATIONS OF POINT LOADS FROM BEAMS AND COLUMNS, ETC. IN SOME CASES, THESE STIFFENER PLATES MAY NOT BE SHOWN FOR CLARITY.

18. A SUITABLE NON-SHRINK GROUT (7000 PSI) SHALL BE USED UNDER BASE PLATES REQUIRING GROUT. GROUT SHALL BE PLACED UNDER THE BASEPLATE ONCE THE STEEL COLUMN IS IN PLACE & PLUMB. THOUGH THE DETAILS AND DRAWINGS MAY (OR MAY NOT) INDICATE, THE CONTRACTOR MAY OPT TO USE LEVELING PLATES AND LEVELING NUTS BELOW THE BASE PLATES TO PLUMB THE STEEL COLUMNS. THE CONTRACTOR SHALL ADJUST THE FOOTING ELEVATION(S) AND CONSIDER THE FLOOR ELEVATION FOR COLUMNS SUBJECT TO GROUT, LEVELING NUTS, ETC.

19. ALL WELDS IN EXPOSED STEEL SHALL BE FIELD COATED W/ ZINC-RICH PAINT.

20. STEEL DETAILERS TO VERIFY/DETERMINE JOIST AND BEAM BEARING ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS TO ENSURE PROPER ROOF SLOPES FOR DRAINAGE AND CORRECT FLOOR ELEVATIONS. SEE ARCHITECTURAL DRAWINGS FOR FLASHING AND ROOF RELATED DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.

21. ALL STEEL REQUIRING PAINT SHALL BE PROPERLY CLEANED AND PREPARED TO ACCEPT THE APPROPRIATE PAINT FOR THE PROJECT. THE PAINT TYPE, COLOR AND THICKNESS SHALL BE SELECTED ACCORDING TO THE LOCATION OF THE STEEL, TYPE OF BUILDING AND OWNER'S REQUIREMENTS FOR COLOR, ETC. DECISIONS INVOLVING PAINT, COLOR AND SO ON SHALL BE PER OWNER.

26. MECHANICAL CURBS SHALL BE CONTINUOUSLY SUPPORTED BY THE STRUCTURAL STEEL SYSTEM. THE CONTRACTOR SHALL INCLUDE THE NECESSARY STEEL SECTIONS (ANGLES, TUBES, SPACERS, ETC.) AS REQUIRED TO ACHIEVE THE NECESSARY SUPPORT FOR ALL CURBS, HANGERS, DECKING, ETC.

29. THE CONTRACTOR SHALL INSTALL BENT PLATES AS NECESSARY AT RIDGE, HIP, EAVE AND VALLEY LOCATIONS ON THE ROOF TO ADEQUATELY SUPPORT THE EDGE OF ROOF PANELS.

30. ALL EXPOSED METALS (MOISTURE AND CORROSIVE ENVIRONMENT) INCLUDING MECHANICAL UNIT CURBS, TIE DOWN STRAPS, EXPOSED FRAMING, ASSOCIATED HARDWARE, ETC. SHALL BE GALVANIZED. THIS INCLUDE METALS EXPOSED TO UNDERGROUND/GROUND CONTACT.

31. ALL ANCHOR BOLTS SHALL EXTEND TO BOTTOM OF FOOTING - THE CONTRACTOR SHALL PROVIDE 3 INCHES OF CONCRETE COVER. DEPENDING ON THE METHOD OF CONSTRUCTION AND FIELD CONDITIONS, THE CONTRACTOR MAY BE REQUIRED TO INSTALL LEVELING NUTS AND NON-SHRINK GROUT AS NEEDED TO PROVIDE ADEQUATE CONTACT BELOW ALL STEEL COLUMN BASE PLATES.

STEEL JOISTS (SEE STRUCTURAL STEEL):

1. JOISTS TO BE MANUFACTURED AND INSTALLED ACCORDING TO THE STANDARDS AND SPECIFICATIONS SET FORTH BY THE STEEL JOIST INSTITUTE. JOIST DESIGNER/SUPPLIER SHALL DETERMINE AND/OR VERIFY THE LOCATIONS AND WEIGHTS OF ALL MECHANICAL EQUIPMENT PRIOR TO SHOP DRAWING SUBMITTAL AND JOIST FABRICATION. IN MANY CASES THE CONTRACTOR, ARCHITECT AND/OR OWNER MAY SUBSTITUTE A MECHANICAL SYSTEM IN THE BID PROCESS-THEREBY CHANGING THE LOCATIONS AND WEIGHTS OF THE MECHANICAL UNITS. THE CONTRACTOR SHALL OBTAIN AND KEEP ON FILE THE JOIST CALCULATIONS RELATING TO THE DESIGN OF STEEL JOIST AND GIRDERS-INCLUDING 'SPECIAL JOISTS'. IN SOME INSTANCES, MULTIPLE JOISTS MAY BE SHOWN ON THE STRUCTURAL DRAWINGS AT MECHANICAL UNIT LOCATIONS. TO SUPPORT MECHANICAL UNITS AND OTHER ROOF LOADS THE JOIST DESIGNER/SUPPLIER MAY USE MULTIPLE JOISTS OR 'SPECIAL JOISTS'TO CARRY THE LOADS.

3. ALL STEEL JOISTS SUPPORTING ROOF DECK SHALL BE DESIGNED TO RESIST UPLIFT LOADS, DUE TO WIND, PER THE LATEST EDITION OF THE APPLICABLE BUILDING CODE. UPLIFT BRIDGING SHALL BE DESIGNED BY THE BAR JOIST/ GIRDER ENGINEER AND INDICATED IN THE SHOP DRAWINGS. NO LOADS SHALL BE APPLIED TO THE JOISTS UNTIL ALL BRIDGING IS INSTALLED AND JOIST BEARING ENDS HAVE BEEN SECURED. BRIDGING TO BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE STANDARDS.

4. PROVIDE 4 X 4 X 1/4 ANGLES SURROUNDING ALL METAL DECK PENETRATIONS UNLESS OTHERWISE NOTED.

5. ALL STEEL JOISTS SHALL BEAR A MINIMUM OF 2-1/2" ON STEEL BEAMS. STEEL JOISTS BEARING ON BOTH SIDES OF STEEL BEAMS WITH FLANGES LESS THAN 5 ¼" SHALL BE STAGGERED TO ALLOW THE REQUIRED BEARING REGARDLESS OF FRAMING PLANS AND SECTIONS.

6. K SERIES STEEL JOISTS SUPPORTED BY MASONRY WALLS SHALL BEAR FULLY ON BEARING PLATES (3/8" PLATE 4" X 0-8" WITH TWO 3/8" X 4" LONG STEEL STUDS AS A MINIMUM UNLESS OTHERWISE SPECIFIED IN THE STRUCTURAL DRAWINGS. DEPENDING ON THE WIDTH OF JOIST SEAT, THE SUPPORTING BEARING PLATES MAY NEED TO BE WIDER TO ALLOW FOR PROPER JOIST BEARING AND WELDS. THE CONTRACTOR SHALL COORDINATE THE LENGTH OF THE BEARING PLATES WITH THE BARJOIST SEAT WIDTH PROVIDED BY THE JOIST MANUFACTURER/ SUPPLIER. IT IS RECOMMENDED THAT THE BEARING PLATE SIZE BE 2 INCHES WIDER (BOTH SIDES) THAN THE JOIST TO ALLOW FOR WELD ATTACHMENT. LONG SPAN STEEL JOISTS SHALL HAVE A MINIMUM BEARING PLATE SIZE OF ½" PLATE 6" X 0-10" WITH TWO 3/8" X 4" LONG STUDS.

7. STEEL JOIST DETAILERS TO VERIFY JOIST AND BEAM BEARING ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS TO ENSURE PROPER ROOF SLOPES FOR DRAINAGE AND CORRECT FLOOR ELEVATIONS. SEE ARCHITECTURAL DRAWINGS FOR FLASHING AND ROOF RELATED DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.

8. SPECIAL ATTENTION SHALL BE GIVEN TO THE DETAILING AND FABRICATION OF STEEL JOISTS AND SEATS AS THEY RELATE TO ROOF SLOPES AND BEAM BEARING ELEVATIONS AND CONDITIONS. SOME JOISTS REQUIRE SPECIAL SEATS AS NEEDED DUE TO SLOPED SUPPORT MEMBERS SUCH AS HIP AND VALLEY CONDITIONS FOR ROOF SYSTEMS. THE STEEL SUPPLIER(S) SHALL TAKE INTO CONSIDERATION THESE FABRICATION AND ERECTION CONDITIONS TO ASSURE THE PROPER ELEVATIONS AND SLOPES OF STEEL MEMBERS AND STEEL SHALL BE SUPPLIED TO ADEQUATELY SUPPORT ALL EDGES OF METAL DECK.

METAL DECKING:

1. THE CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS SHOWING BEAMS, JOISTS, BRIDGING, DECKING (INCLUDING TEMPORARY SHORING) AND ALL CONNECTIONS. SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY THE CONTRACTOR FOR (BUT NOT LIMITED TO) DIMENSIONS, ELEVATIONS, AND ERECTION PROCEDURES PRIOR TO ARCHITECT & STRUCTURAL ENGINEER'S REVIEW. THE MEMBERS OF THE DESIGN TEAM SHALL RECEIVE A FINAL SET OF SHOP DRAWINGS STAMPED 'FINAL SHOP DRAWINGS - FILE SET'?WHICH INCORPORATES ANY COMMENTS MADE DURING THE SHOP DRAWING PROCES.

2. THE DECKING CONTRACTOR IS TO COORDINATE OPENING SIZES AND LOCATIONS FROM ARCHITECTURAL AND MECHANICAL DRAWINGS. METAL DECK SHALL CONFORM TO ASTM A446 AND A525.

4. ALL METAL ROOF DECKING SHALL BE 1-1/2" TYPE 'B' ?22 GAUGE (GALVANIZED).

ALL 22 GAGE, 11/2" DEEP TYPE 'B', GALVANIZED STEEL ROOF DECK (SEE PLAN FOR LOCATIONS) TO BE INSTALLED WITH A 36/5 FASTENER PATTERN AT ALL END AND INTERMEDIATE SUPPORTS WITH A MIN. OF 5 SIDE LAP FASTENERS PER SPAN. SIDE LAP FASTENERS TO BE #10 TEK SCREWS. SPECIFIC FASTENERS SHALL BE PER DECK FASTENING DETAILS ON DRAWINGS.

5. PROVIDE 4 X 4 X 1/4 ANGLES SURROUNDING ALL METAL DECK PENETRATIONS UNLESS OTHERWISE NOTED.

6. CONSTRUCTION EQUIPMENT SUCH AS WHEELBARROWS, ETC. SHALL NOT BE ALLOWED ON THE STEEL DECKS. CONSTRUCTION EQUIPMENT WEIGHTS SHALL BE SUPPORTED DIRECTLY ON THE STEEL JOISTS.

7. THE CONTRACTOR SHALL INSTALL 1/4" THICK BENT PLATE(S) AS NECESSARY AT RIDGE, HIP, EAVE AND VALLEY LOCATIONS TO ADEQUATELY SUPPORT THE EDGE OF METAL ROOF DECK PANELS. THE PLATE(S) SHALL BE CONFIGURED (IN THE SHAPE OF AN EQUAL LEGGED CHANNEL OR TUBE) TO PROVIDE A MINIMUM BEARING AND SUPPORT WIDTH OF 2 INCHES.

8. DO NOT HANG OR ATTACH MECHANICAL SYSTEMS, DUCTS, CONDUIT, PIPING, EQUIPMENT, CEILINGS, ETC. FROM METAL DECKING.

9. THE CONTRACTOR SHALL SUPPORT THE EDGE OF ALL ROOF DECK WITH A STEEL ANGLE AND APPROPRIATE FASTENERS. A 5 X 3 X 1/4" ANGLE (LONG LEG VERTICAL) WITH 3/4" (4" EMBEDMENT) EXPANSION BOLTS AT 2'-0" ON CENTER SHALL BE USED AT ALL MASONRY AND CONCRETE WALLS UNLESS OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS. A 5 X 5 X 5/16" ANGLE SHALL BE USED AT LOCATIONS IN WHICH THE DECK SUPPORT MUST SPAN BETWEEN STEEL JOISTS AND/OR BEAMS.

SEISMIC QUALITY ASSURANCE PLAN

1. THE FOLLOWING SEISMIC SYSTEMS AND SEISMIC-FORCE-RESISTING SYSTEM ARE SUBJECT TO QUALITY ASSURANCE:
   A. MASONRY SHEARWALL REINFORCEMENT.
   B. ATTACHMENT OF ROOF STRUCTURAL SYSTEM TO SHEARWALLS.
   C. INSTALLATION OF SUSPENDED CEILINGS AND THEIR ANCHORAGE.
   D. ANCHORAGE OF ELECTRICAL EQUIPMENT USED FOR EMERGENCY OR STANDBY POWER.
   E. ANCHORAGE OF EXTERIOR WALL PANELS &/OR GLAZING.
2. PROVIDE SPECIAL INSPECTIONS FOR SYSTEMS INDICATED ABOVE AS INDICATED IN SPECIAL INSPECTIONS CHART.
3. TYPE AND FREQUENCY OF TESTING PER CHART.
4. TYPE AND FREQUENCY OF SPECIAL INSPECTIONS SEE CHART.
5. ALL REPORTS TO ARCHITECT, STRUCTURAL ENGINEER AND SPECIAL INSPECTIONS COORDINATOR.
6. PERIODIC STRUCTURAL OBSERVATION WILL BE PERFORMED AT SIGNIFICANT CONSTRUCTION STAGES AND AT THE COMPLETION OF THE STRUCTURAL SYSTEM.
7. STRUCTURAL OBSERVATION REPORTS TO ARCHITECT, STRUCTURAL ENGINEER

CONTRACTOR'S RESPONSIBILITY

EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A SEISMIC - FORCE - RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR A COMPONENT LISTED IN THE SEISMIC QUALITY ASSURANCE PLAN SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND TO THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:

1. ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE WIND QUALITY ASSURANCE PLAN.
2. ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS.
4. IDENTIFICATIONS AND QUALIFICATIONS OF PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

WIND QUALITY ASSURANCE PLAN

1. THE FOLLOWING MAIN WIND FORCE-RESISTING SYSTEMS AND WIND RESISTING COMPONENTS ARE SUBJECT TO QUALITY ASSURANCE:
   A. MASONRY SHEARWALL CONSTRUCTION AND REINFORCEMENT.
   B. ROOF DIAPHRAGM SYSTEMS.
   C. WALL CONNECTIONS TO ROOF DIAPHRAGM AND FRAMING.
   D. GLAZING SYSTEM FABRICATION AND INSTALLATION.
   E. ROOF CLADDING AND ROOF FRAMING COMPONENTS.
2. PROVIDE SPECIAL INSPECTIONS FOR SYSTEMS INDICATED ABOVE AS INDICATED IN SPECIAL INSPECTIONS CHART.
3. TYPE AND FREQUENCY OF TESTING PER CHART.
4. TYPE AND FREQUENCY OF SPECIAL INSPECTIONS SEE CHART.
5. ALL REPORTS TO ARCHITECT, STRUCTURAL ENGINEER AND SPECIAL INSPECTIONS COORDINATOR.
6. PERIODIC STRUCTURAL OBSERVATION WILL BE PERFORMED AT SIGNIFICANT CONSTRUCTION STAGES AND AT THE COMPLETION OF THE STRUCTURAL SYSTEM.
7. STRUCTURAL OBSERVATION REPORTS TO ARCHITECT, STRUCTURAL ENGINEER

CONTRACTORS RESPONSIBILITY

EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WINDFORCE - RESISTING SYSTEM OR A WIND-RESISTING COMPONENT LISTED IN THE WIND QUALITY ASSURANCE PLAN SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:

1. ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE WIND QUALITY ASSURANCE PLAN.
2. ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS.
4. IDENTIFICATIONS AND QUALIFICATIONS OF PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

PMH CROFT ARCHITECTS & ENGINEERS
1300 Professional Drive, Suite 201
Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
www.croftandassociates.com

OWNER
H59-N302-CB CONWAY BUILDING 1400 EXPANSION
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

HORRY GEORGETOWN TECHNICAL COLLEGE

PROJECT NAME
HGTC AUTOMOTIVE TECHNOLOGY BUILDING 1400 EXPANSION

Conway, South Carolina 29526
H59-N302-CB

No.	Date	Description
	9-24-2025	Bid Drawings

PROJECT NUMBER
2025-2006

DRAWN: RC
CHECKED: DL

SHEET TITLE
SPECIAL INSPECTIONS

SHEET NO.
S1.1

WE PROJECT NO. 25-160

Weatherly STRUCTURAL ENGINEERS

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STATEMENT OF SPECIAL INSPECTIONS (PER CHAPTER 17, 2018 IBC)

SPECIAL INSPECTION COMPANY / COORDINATOR - TO BE RETAINED BY OWNER

BUILDING SYSTEM OR COMPONENT	MATERIAL SUBMITTAL	TESTING			INSPECTION (PER IBC)			QUALITY ASSURANCE (PER IBC)	
		REQUIREMENTS	FREQUENCY	AGENCY	MONITORING	FREQUENCY	AGENCY	PART OF WIND	PART OF SEISMIC
SOILS (COMPACTED FILL)	N/A	1. TEST IN PLACE DRY DENSITY OF COMPACTED FILL.	1. AS APPROVED GEOTECHNICAL ENGINEER.	TESTING LAB TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL	AS EXCAVATION AND FILL PLACEMENT BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH GEOTECHNICAL REPORT: 1. MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY AS SPECIFIED IN SOILS REPORT. 2. EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. 3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS. 4. USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL. 5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	1. PERIODIC 2. PERIODIC 3. PERIODIC 4. CONTINUOUS 5. PERIODIC	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL	1. COLUMNS AND SHEARWALLS ACCORDANCE WITH APPROVED SOILS REPORT PRIOR TO PLACEMENT OF FILL.	1. COLUMNS AND SHEARWALLS ACCORDANCE WITH APPROVED SOILS REPORT PRIOR TO PLACEMENT OF FILL.
CONCRETE FOUNDATIONS	1. SUBMIT CONCRETE MIX DESIGN. 2. SUBMIT FOUNDATION REINFORCEMENT SHOP DRAWINGS. 3. VERIFY PROPER CONCRETE STRENGTH.	1. TEST CONCRETE STRENGTH.	1. (1) SET OF CYLINDERS FOR EACH VERTICAL LIFT OR EACH 50 YARDS OF CONCRETE.	TESTING LAB TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL	AS CONCRETE AND REINFORCING STEEL CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE INSPECTED TO ENSURE COMPLIANCE: 1. VERIFY REINFORCING SIZE, QUANTITY & PLACEMENT 2. ANCHORS CAST IN CONCRETE 3. ANCHORS POST INSTALLED IN HARDENED CONCRETE 4. VERIFYING USE OF REQUIRED DESIGN MIX 5. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TEST, AND DETERMINE THE TEMPERATURE OF CONCRETE 6. CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES 7. INSPECT FORMWORK FOR; SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	1. PERIODIC 2. PERIODIC 3. PERIODIC 4. PERIODIC 5. CONTINUOUS 6. CONTINUOUS 7. PERIODIC	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL	1. SPREAD FOOTINGS AT BEARING WALLS AND SHEARWALL.	1. SPREAD FOOTINGS AT BEARING WALLS AND SHEARWALL.
CONCRETE MASONRY UNITS	- SUBMIT TEST DATA ON CMU UNITS NET AREA OF COMPRESSIVE STRENGTH 1900 PSI OR GREATER. - TYPE 'S' MORTAR GROUT MIX 2000 PSI.	1. TEST COMPRESSIVE STRENGTH OF MORTAR	1. (1) SET OF GROUT CUBES FROM EACH FLOOR	TESTING LAB TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL	SEE MASONRY INSPECTION CHART	SEE MASONRY INSPECTION CHART	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL	- YES	- YES
METAL BUILDING SYSTEM & COMPONENTS	1. SUBMIT MANUFACTURER'S CERTIFIED MILL TEST REPORTS FOR STRUCTURAL STEEL.	N/A	N/A	N/A	1. INSPECT STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS.	1. PERIODIC	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL PER IBC	1. FLOOR AND ROOF SYSTEM FRAMING	1. FLOOR AND ROOF SYSTEM FRAMING
STRUCTURAL STEEL	1. SUBMIT MANUFACTURER'S CERTIFIED MILL TEST REPORTS FOR STRUCTURAL STEEL.	N/A	N/A	N/A	1. INSPECT STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS.	1. PERIODIC	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL PER IBC	1. FLOOR AND ROOF SYSTEM FRAMING	1. FLOOR AND ROOF SYSTEM FRAMING
STRUCTURAL STEEL HIGH - STRENGTH BOLTING (AND MECHANICAL FASTENING OF METAL DECK)	1. SUBMIT MANUFACTURER'S CERTIFICATE OF COMPLIANCE FOR HIGH-STRENGTH BOLTS, NUTS, WASHERS AND/OR FASTENERS.	N/A	N/A	N/A	1. VERIFY BOLTING IN BEARING-TYPE CONNECTIONS ARE INSTALLED IN ACCORDANCE WITH AISC SPECIFICATIONS. 2. VERIFY BOLTING IN SLIP-CRITICAL CONNECTIONS ARE INSTALLED IN ACCORDANCE WITH AISC SPECIFICATIONS. 3. VERIFY IDENTIFICATION MARKING ON HIGH-STRENGTH BOLTS, NUTS AND WASHERS CONFORMING TO ASTM STANDARDS SPECIFIED. 4. VERIFY FASTENER TYPE AND ADHERENCE TO SPECIFIED FASTENER ATTACHMENT PATTERN. 5. VERIFY PROPER STORAGE AND HANDLING OF BOLTS, NUTS, WASHERS.	1. PERIODIC 2. CONTINUOUS (MAY BE PERIODIC IF TURN-OF-NUT WITH MATCH MARKING METHODS, DIRECT TENSION INDICATOR OR ALTERNATE DESIGN FASTENER (TWIST-OFF) METHODS ARE USED) 3. PERIODIC 4. PERIODIC 5. PERIODIC	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL PER IBC	1. FLOOR AND ROOF SYSTEM BOLTING	1. FLOOR AND ROOF SYSTEM BOLTING
STRUCTURAL STEEL WELDING	1. SUBMIT MANUFACTURER'S CERTIFICATE OF COMPLIANCE FOR WELD FILLER MATERIAL.	N/A	N/A	N/A	VERIFY WELDING IS IN COMPLIANCE WITH AWS D1.1 1. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS. 2. MULTIPASS FILLET WELDS 3. SINGLE-PASS FILLET WELDS > 5/16" 4. SINGLE-PASS FILLET WELDS < OR = 5/16" 5. FLOOR AND DECK WELDS	1. CONTINUOUS 2. CONTINUOUS 3. CONTINUOUS 4. PERIODIC 5. PERIODIC	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL PER IBC	1. FLOOR AND ROOF SYSTEM WELDING	1. FLOOR AND ROOF SYSTEM WELDING
COLD FORM FRAMING	1. SUBMIT MANUFACTURER'S CERTIFIED MILL TEST REPORTS FOR STRUCTURAL STEEL.	N/A	N/A	N/A	1. VERIFY ALL SIZES, SPACINGS, AND GAUGES ETC. CONFORM W/ CONSTRUCTION DOCUMENTS 2. VERIFY ALL CONNECTIONS AND FASTENERS CONFORM WITH CONSTRUCTION DOCUMENTS 3. VERIFY ALL BRIDGING AND BRACING CONFORMS WITH CONSTRUCTION DOCUMENTS	1. PERIODIC 2. PERIODIC 3. PERIODIC	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL PER IBC	1. YES	1. YES
ANCHORAGE OF ELECTRICAL EQUIPMENT USED FOR EMERGENCY OR STANDBY POWER	1. SUBMIT ANCHOR TYPE AND LITERATURE.	1. SUBMIT MANUFACTURERS TEST REPORTS.	N/A	N/A	1. VERIFY FASTENER LOCATION AND INSTALLATION.	1. PERIODIC	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL PER IBC	1. NO	1. YES

NOTE: ALL TESTING, INSPECTION & RELATED REPORTS SHALL BE SENT TO THE SPECIAL INSPECTION COORDINATOR & THE OWNER.
ANY DEFICIENCIES SHALL BE CLEARLY NOTED & BROUGHT TO THE ATTENTION OF THE SPECIAL INSPECTION COORDINATOR BEFORE THE END OF THE INSPECTOR'S SHIFT.

DEFINITIONS:
- SPECIAL INSPECTOR: PER IBC "A QUALIFIED PERSON EMPLOYED OR RETAINED BY AN APPROVED AGENCY AND APPROVED BY THE BUILDING OFFICIAL AS HAVING THE COMPETENCE NECESSARY TO INSPECT A PARTICULAR TYPE OF CONSTRUCTION REQUIRING SPECIAL INSPECTION".
- PERIODIC SPECIAL INSPECTION: PER IBC "SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED".
- CONTINUOUS SPECIAL INSPECTION: PER IBC "SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED". THIS IS INTENDED TO BE A CONTINUOUS INSPECTION.

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Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
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H59-N302-CB CONWAY BUILDING 1400 EXPANSION
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

HORRY GEORGETOWN TECHNICAL COLLEGE

PROJECT NAME

HGTC AUTOMOTIVE TECHNOLOGY BUILDING 1400 EXPANSION

Conway, South Carolina 29526
H59-N302-CB

No.	Date	Description
	9-24-2025	Bid Drawings

PROJECT NUMBER
2025-2006

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SHEET TITLE
NOTES

SHEET NO.
S1.2

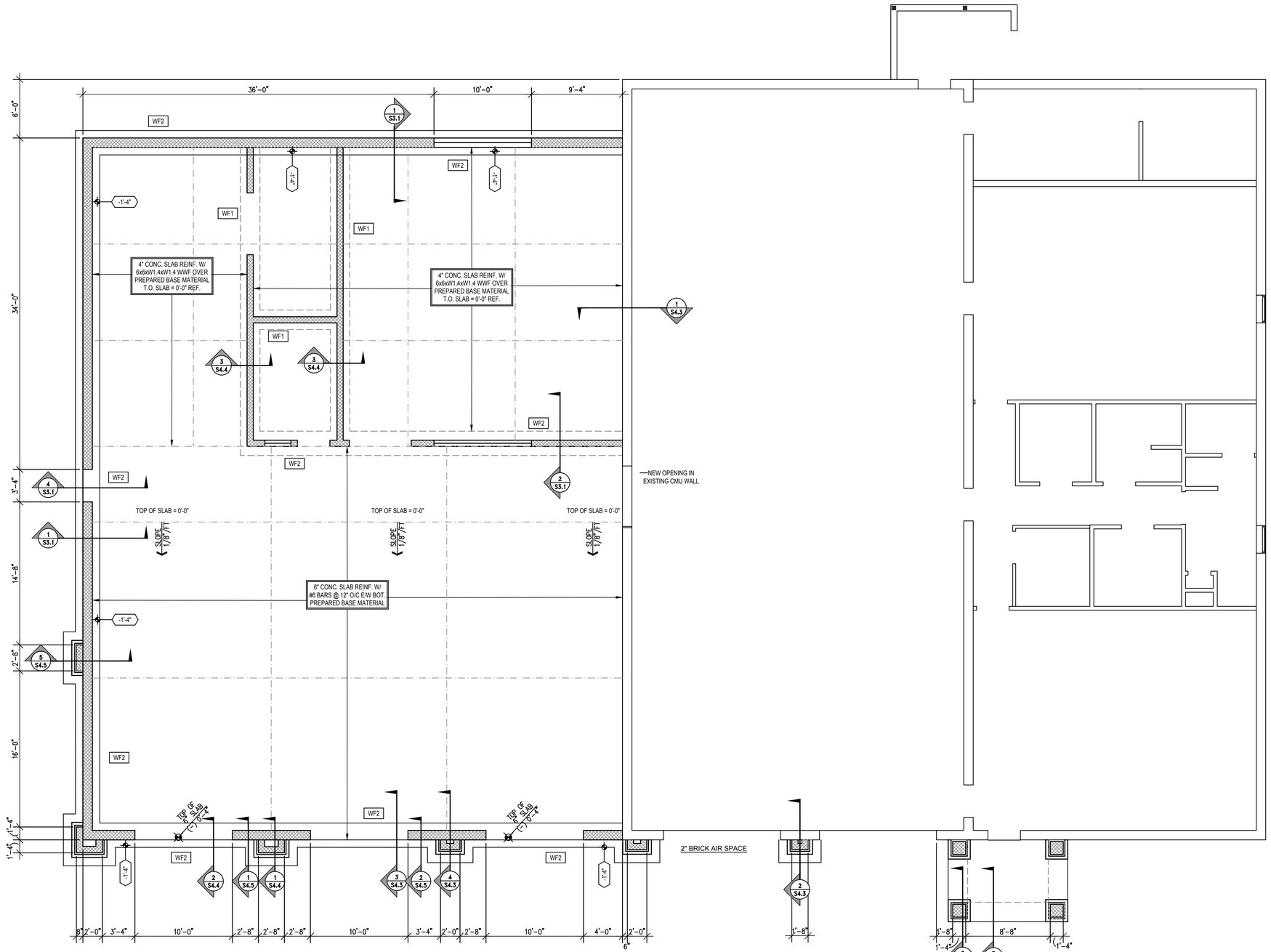
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FOUNDATION PLAN
SCALE ====== 3/16" = 1'-0"

CONTINUOUS SPREAD FOOTING SCHEDULE	
WF1	2'-0" x 1'-0" THICK FTG. W/ (2) #5 BARS CONT. (BOT.)
WF2	2'-6" x 1'-0" THICK FTG. W/ (3) #5 BARS CONT. (BOT.)

-1'-4" ALL TOP OF FOOTING ELEVATIONS = (-) 1'-4" UNLESS NOTED OTHERWISE

- DENOTES TOP OF FOOTING ELEVATION FROM REF. ELEV (0'-0")

- DENOTES CMU UNLESS NOTED OTHERWISE

- REPRESENTS LOCATION OF SAW JOINTS SEE TYP. DETAIL ON SHEET S3.0

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2025-2006

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SHEET TITLE
FOUNDATION PLANS

SHEET NO.
S2.0

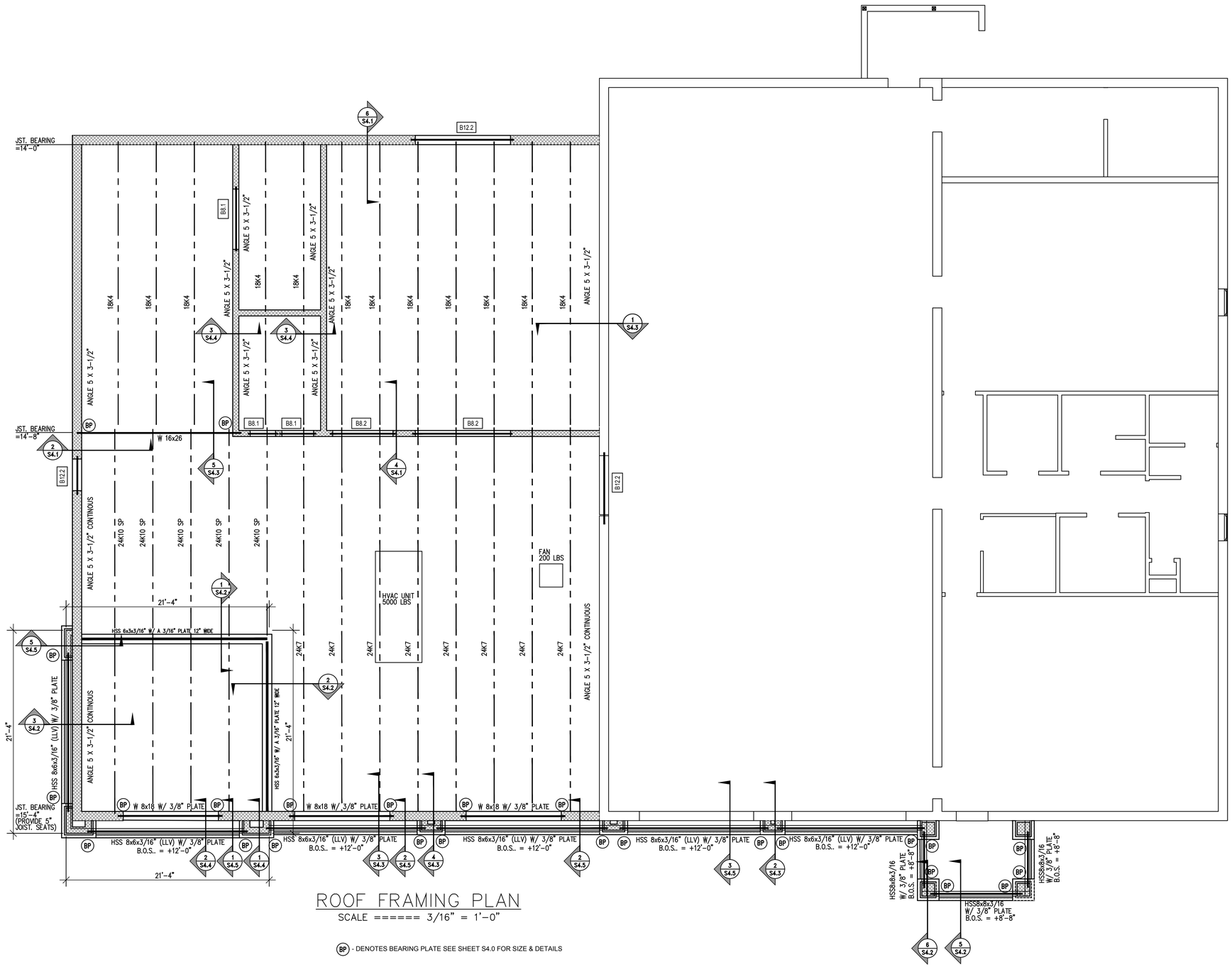
SOUTH CAROLINA PROFESSIONAL ENGINEER ASHLEIGH BRYAN WEATHERLY No. 15317 9/24/25

SOUTH CAROLINA WEATHERLY ENGINEERING LLC MYRTLE BEACH, SC CERTIFICATE OF AUTHORIZATION No. 5538

WE PROJECT NO. 25-160

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ROOF FRAMING PLAN

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

(BP) - DENOTES BEARING PLATE SEE SHEET S4.0 FOR SIZE & DETAILS

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ROOF FRAMING PLANS

SHEET NO.
S2.1

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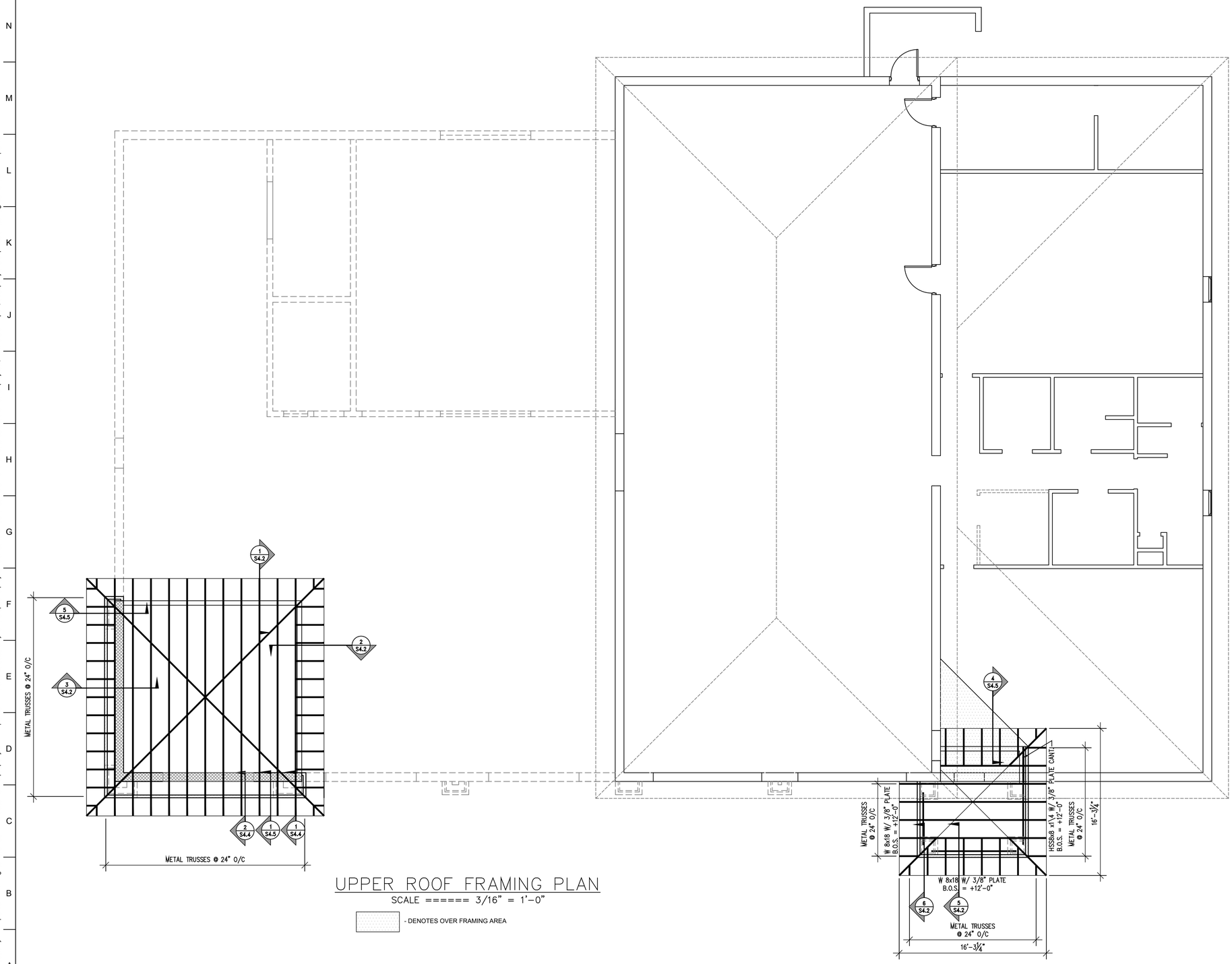
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UPPER ROOF FRAMING PLAN

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

- DENOTES OVER FRAMING AREA

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SHEET TITLE
ROOF FRAMING PLANS

SHEET NO.
S2.2

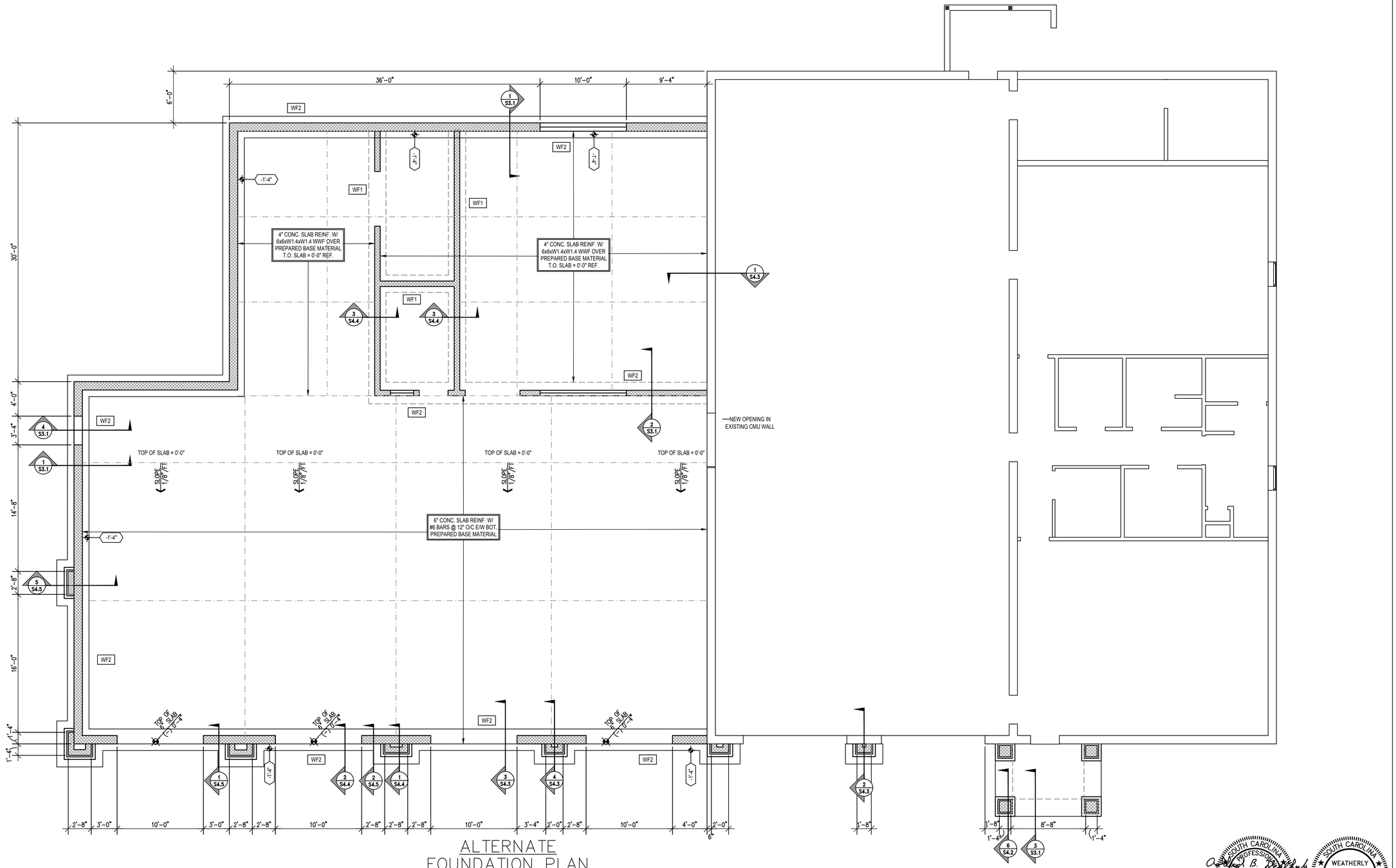
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ALTERNATE FOUNDATION PLAN (ADDITIONAL BAY)

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

CONTINUOUS SPREAD FOOTING SCHEDULE	
WF1	2'-0" x 1'-0" THICK FTG. W/ (2) #5 BARS CONT. (BOT.)
WF2	2'-6" x 1'-0" THICK FTG. W/ (3) #5 BARS CONT. (BOT.)

-1'-4" ALL TOP OF FOOTING ELEVATIONS = (-) 1'-4" UNLESS NOTED OTHERWISE

- DENOTES TOP OF FOOTING ELEVATION FROM REF. ELEV (0'-0")

- DENOTES CMU UNLESS NOTED OTHERWISE

- REPRESENTS LOCATION OF SAW JOINTS SEE TYP. DETAIL ON SHEET S3.0

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SHEET TITLE
ALTERNATE FOUNDATION PLANS

SHEET NO.
S2.3

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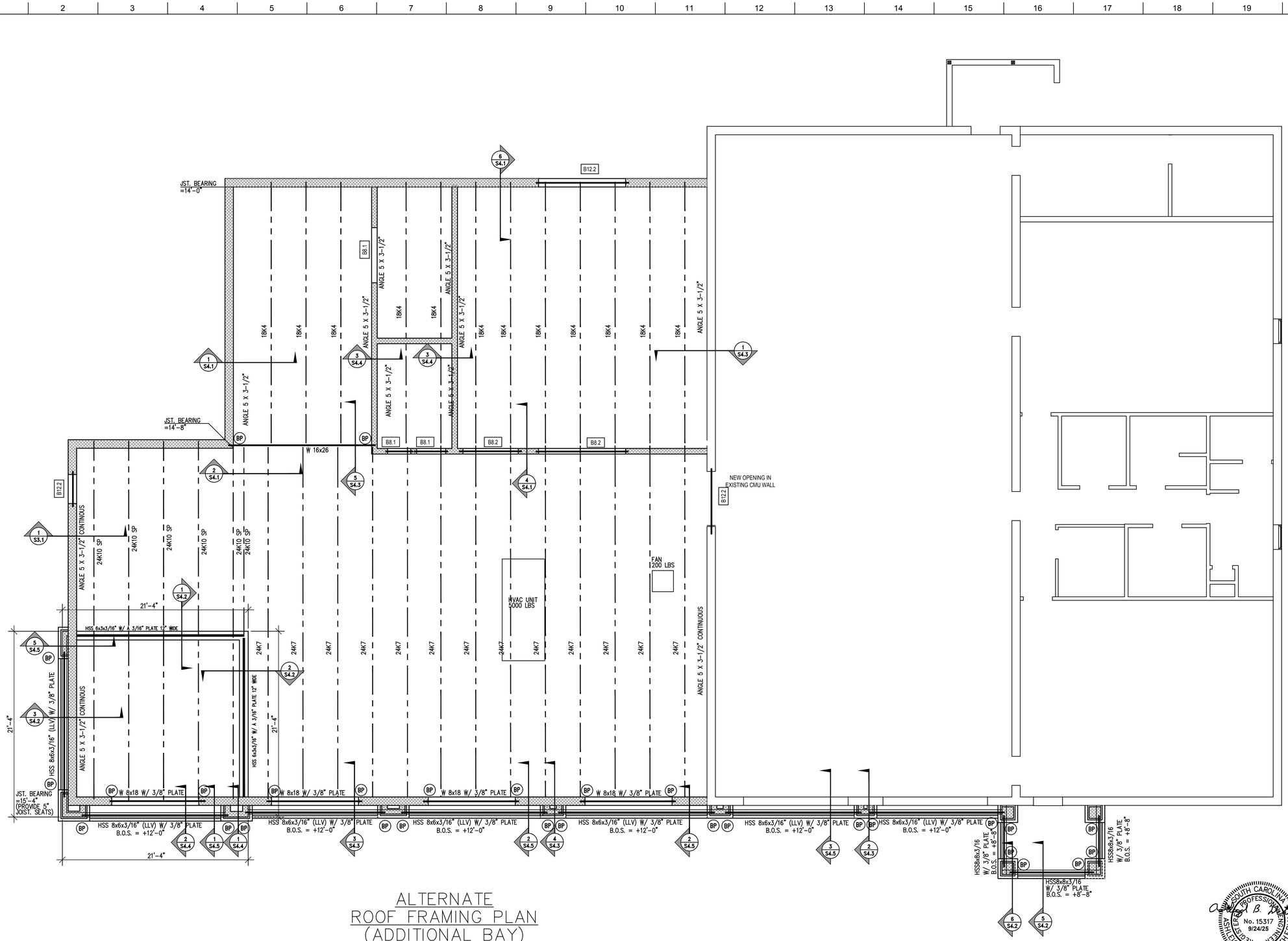
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ALTERNATE ROOF FRAMING PLAN (ADDITIONAL BAY)

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

(BP) - DENOTES BEARING PLATE SEE SHEET S4.0 FOR SIZE & DETAILS

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SHEET TITLE
ALTERNATE ROOF FRAMING PLANS

SHEET NO.
S2.4

Andrew B. Weatherly
NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No. 15317
9/24/25
ANDREW BRYAN WEATHERLY

SOUTH CAROLINA
WEATHERLY ENGINEERING LLC
MYRTLE BEACH, SC
No. 5538
CERTIFICATE OF AUTHORIZATION

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Weatherly STRUCTURAL ENGINEERS

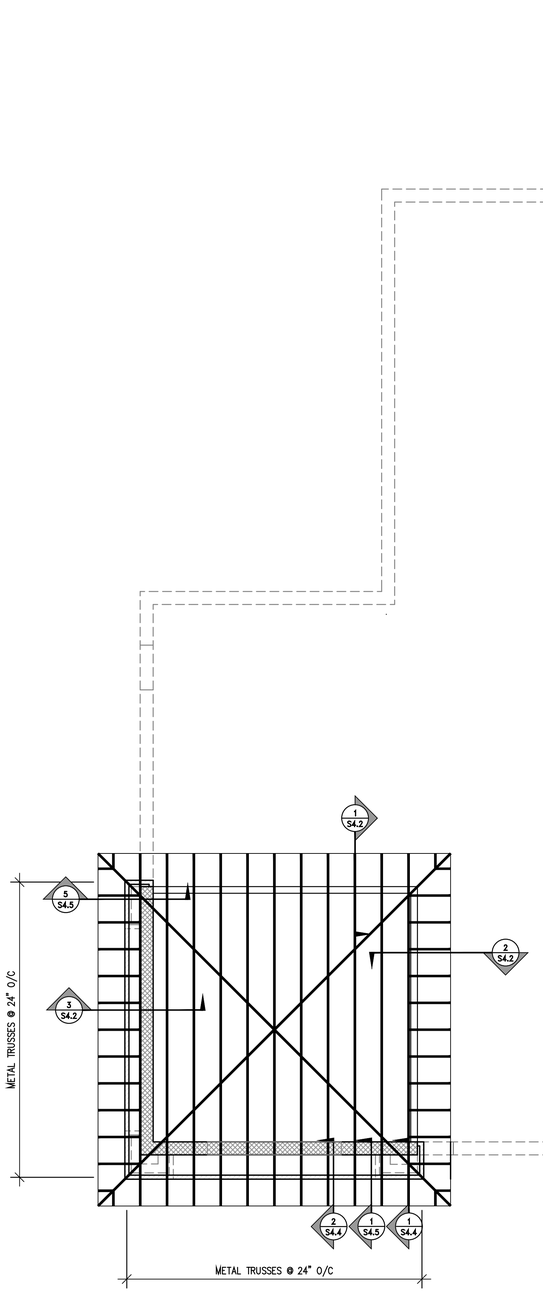
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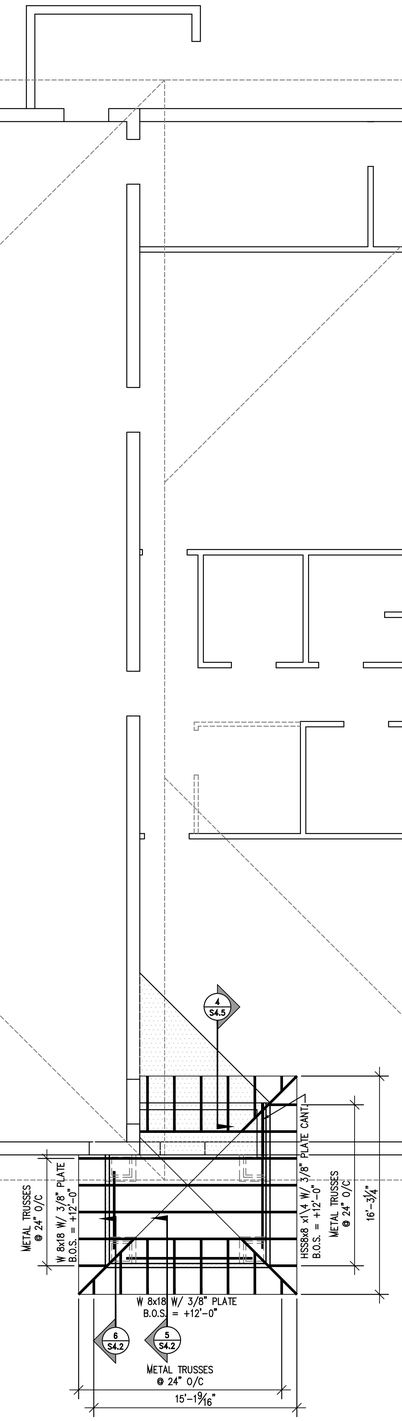
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ALTERNATE
UPPER ROOF FRAMING PLAN
(ADDITIONAL BAY)
SCALE ====== 3/16" = 1'-0"

- DENOTES OVER FRAMING AREA



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SHEET TITLE
ALTERNATE ROOF FRAMING PLANS

SHEET NO.
S2.5

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 15317
9/24/25
ASHLEIGH BRYAN WEATHERLY
REGISTERED

WEATHERLY ENGINEERING LLC
MYRTLE BEACH, SC
SOUTH CAROLINA
No. 5538
CERTIFICATE OF AUTHORIZATION

WE PROJECT NO. 25-160

Weatherly
STRUCTURAL ENGINEERS

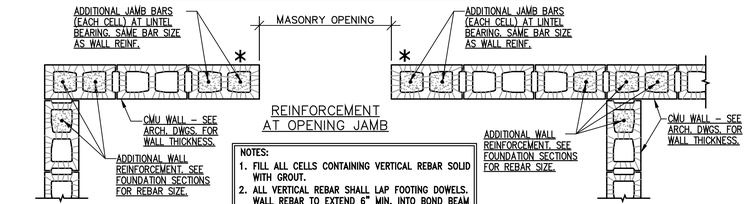
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THIS SHEET PLOTS ON 24"X36" ARCH D
3" 2" 1" 1/2" 0

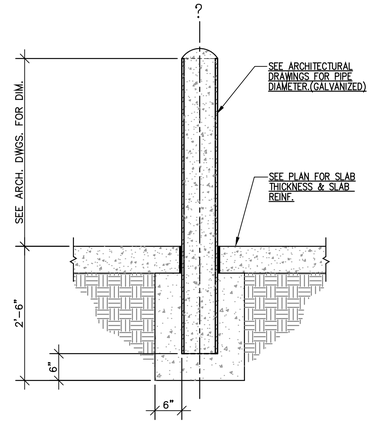
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* NOTE: IN THE EVENT THAT AN ELECTRICAL BOX IS LOCATED IN EITHER OF THE FIRST TWO CELLS BESIDE DOOR OPENING, THE CONTRACTOR MAY RELOCATE THE REBAR FROM THAT CELL TO THE THIRD CELL LOCATION. CONTRACTOR TO BE MINDFUL THAT THE LINTEL WILL NEED TO BE EXTENDED TO REINFORCED CELLS.



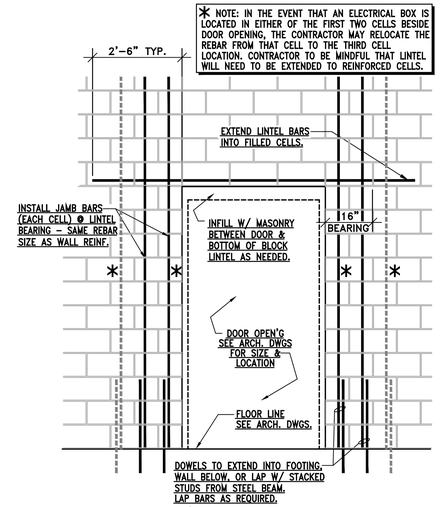
NOTES:
1. FILL ALL CELLS CONTAINING VERTICAL REBAR SOLID WITH GROUT.
2. ALL VERTICAL REBAR SHALL LAP FOOTING DOWELS. WALL REBAR TO EXTEND 6" MIN. INTO BOND BEAM AT TOP OF WALL.
3. ALL DOWELS TO HAVE STANDARD END HOOKS.
4. SEE GENERAL NOTES FOR REBAR LAP SCHEDULE.

TYPICAL MASONRY WALL REINFORCEMENT DETAILS
NO SCALE

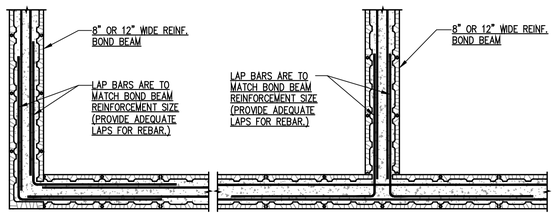


TYPICAL BOLLARD DETAIL

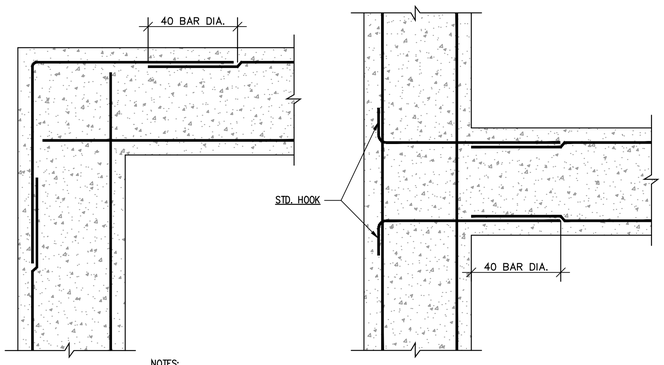
* NOTE: IN THE EVENT THAT AN ELECTRICAL BOX IS LOCATED IN EITHER OF THE FIRST TWO CELLS BESIDE DOOR OPENING, THE CONTRACTOR MAY RELOCATE THE REBAR FROM THAT CELL TO THE THIRD CELL LOCATION. CONTRACTOR TO BE MINDFUL THAT LINTEL WILL NEED TO BE EXTENDED TO REINFORCED CELLS.



TYP. ADD'L REINFORCEMENT @ MASONRY DOOR OPENING
NO SCALE

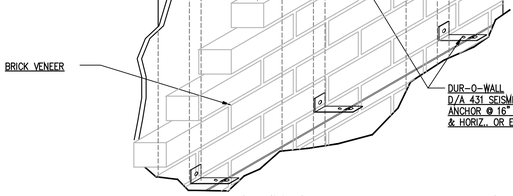


TYPICAL BOND BEAM INTERSECTION DETAILS
NO SCALE

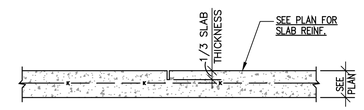


NOTES.
1. CORNER BARS MATCH HORIZONTAL REINFORCEMENT IN SIZE AND SPACING.
2. FOR SINGLE LAYER WALLS, USE SINGLE BARS AS SHOWN.

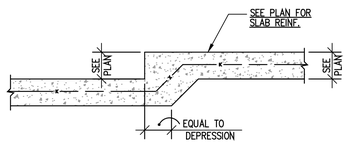
TYPICAL REINFORCEMENT DETAIL OF CORNERS AND INTERSECTIONS @ WALL FOOTING



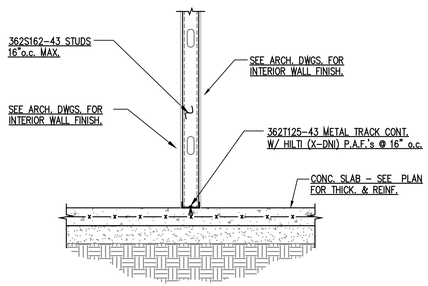
SEISMIC-NOTCH VENEER ANCHORS



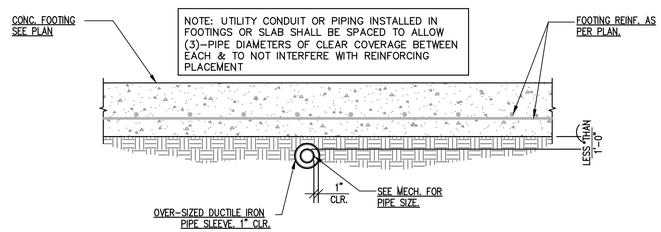
TYPICAL SAW JOINT DETAIL



TYPICAL RECESSED SLAB DETAIL
NOTE: MAINTAIN SLAB THICKNESS AT RECESSED SLABS



TYP. NON-LOAD BEARING STUD WALL ATTACHMENT TO SLAB



TYPICAL DETAIL FOR UTILITIES BELOW WALL FOOTING (DEPTH LESS THAN 1'-0")
NOTE: PROTECTION OF UTILITY NOT REQUIRED WHEN DEPTH BELOW FOOTING EXCEEDS 1'-0" OR (6)-PIPE DIAMETERS TO TOP OF PIPE.

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H59-N302-CB CONWAY BUILDING 1400 EXPANSION
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

HORRY GEORGETOWN TECHNICAL COLLEGE

PROJECT NAME
HGTC AUTOMOTIVE TECHNOLOGY BUILDING 1400 EXPANSION

Conway, South Carolina 29526
H59-N302-CB

No.	Date	Description
	9-24-2025	Bid Drawings

PROJECT NUMBER
2025-2006

DRAWN: RC
CHECKED: DL

SHEET TITLE
DETAILS

SHEET NO.
S3.0

SOUTH CAROLINA PROFESSIONAL ENGINEER ASHLEIGH BRYAN WEATHERLY No. 15317 9/24/25

SOUTH CAROLINA WEATHERLY ENGINEERING LLC MYRTLE BEACH, SC No. 5538 CERTIFICATE OF AUTHORIZATION

WE PROJECT NO. 25-160

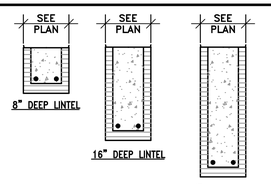
Weatherly STRUCTURAL ENGINEERS

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MASONRY BLOCK LINTEL SCHEDULE

	MARK	LINTEL DESCRIPTION	OPENING WIDTH FOR NON-LOAD BEARING WALL	REFERENCE DIAGRAM
8" BLOCK	B8.1	8" DEEP BOND BEAM W/ 2-#5 BARS CONT.	6'-0" WIDE MAX.	DIAGRAM A
	B8.2	16" DEEP BOND BEAM W/ 2-#5 BARS CONT.	10'-0" WIDE MAX.	DIAGRAM A
12" BLOCK	B12.1	8" DEEP BOND BEAM W/ 2-#5 BARS CONT.	6'-0" WIDE MAX.	DIAGRAM A
	B12.2	16" DEEP BOND BEAM W/ 2-#5 BARS CONT.	10'-0" WIDE MAX.	DIAGRAM A
	B12.3	24" DEEP BOND BEAM W/ 2-#5 BARS CONT.	12'-0" WIDE MAX.	DIAGRAM A

DIAGRAMS (Not to Scale)

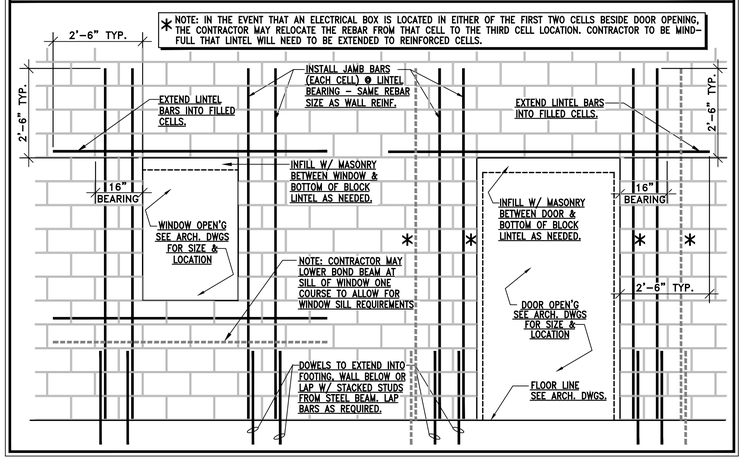


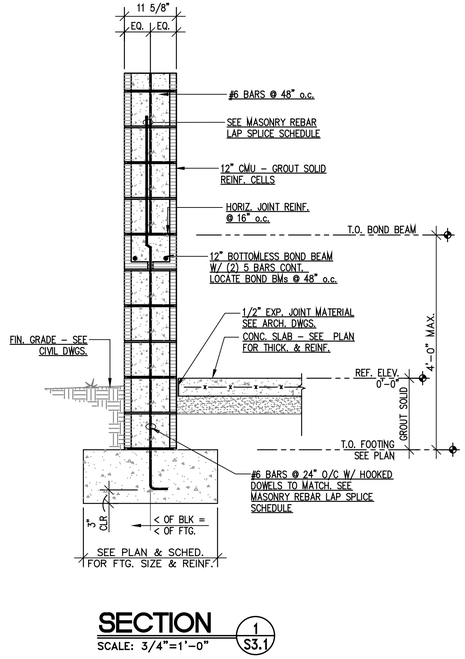
CONTRACTOR'S NOTES:

1. SOME LINTELS IN THIS SCHEDULE MAY NOT BE USED. CONTRACTOR MAY SELECT APPROPRIATE LINTEL ACCORDING TO OPENING SIZE AND WALL CONSTRUCTION, UNLESS NOTED OTHERWISE.
2. SEE ARCHITECTURAL DRAWINGS FOR WALL WIDTHS.
3. ALL MASONRY LINTEL BEARING TO BE 16" MIN. ON EACH SIDE.
4. SEE STRUCTURAL PLAN AND ADDITIONAL WALL SECTIONS FOR WALL REINFORCEMENT AND SPACING.
5. SEE TYPICAL BEARING PLATE SCHEDULE AND DETAILS FOR PLATE SIZE AND NUMBER OF ANCHORS.

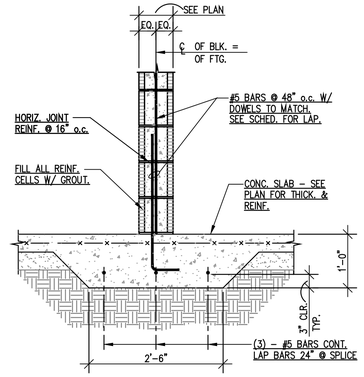
A

MASONRY OPENING REINFORCEMENT DETAIL (Not to Scale)

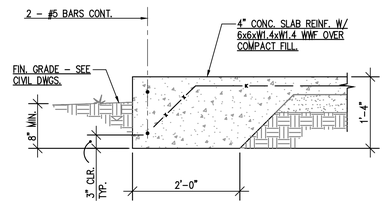




SECTION 1 S3.1
SCALE: 3/4"=1'-0"

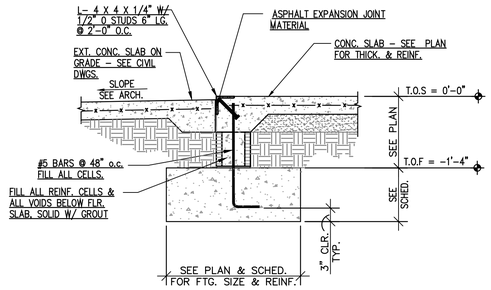


SECTION 2 S3.1
SCALE: 3/4"=1'-0"



TYPICAL TOE FOOTING AT EXTERIOR SLABS

SECTION 3 S3.1
SCALE: 3/4"=1'-0"



SECTION 4 S3.1
SCALE: 3/4"=1'-0"

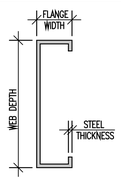
LIGHT STEEL FRAMING MATERIAL SIZING CHART

MEMBER SIZE	DESIGNATION
1 5/8"	162
2 1/2"	250
3 1/2"	350
3 5/8"	362
4"	400
5 1/2"	550
6"	600
7 1/4"	725
8"	800
9 1/4"	925
10"	1000
11 1/2"	1150
12"	1200

MEMBER DEPTH:
(EXAMPLE: 6" = 600 x 1/100 INCHES) ALL MEMBER DEPTHS ARE TAKEN IN 1/100 INCH. FOR ALL "I" SECTIONS, MEMBER DEPTH IS INSIDE TO INSIDE DIMENSION.

FLANGE WIDTH	DESIGNATION
1 1/4"	125
1 3/8"	137
1 1/2"	150
1 5/8"	162
2"	200
2 1/2"	250

FLANGE WIDTH:
(EX: 1 5/8" = 1.625 = 162 x 1/100 INCHES) ALL FLANGE WIDTHS ARE TAKEN IN 1/100 INCHES



STEEL THICKNESS REFERENCE CHART

GAGE NO.	MIL THICKNESS	DESIGN (IN.)	MINIMUM (IN.)
25	18	0.0188	0.0179
22	27	0.0283	0.0269
20	33	0.0346	0.0329
18	43	0.0451	0.0428
16	54	0.0566	0.0538
14	68	0.0713	0.0677
12	97	0.1017	0.0966

600S162-54

STYLE:
(EXAMPLE: STUD OR JOIST SECTION = S)
THE FOUR ALPHA CHARACTERS UTILIZED BY THE DESIGNATOR SYSTEM ARE:
S = STUD OR JOIST SECTIONS
T = TRACK SECTIONS
U = CHANNEL SECTIONS
F = FURRING CHANNEL SECTIONS

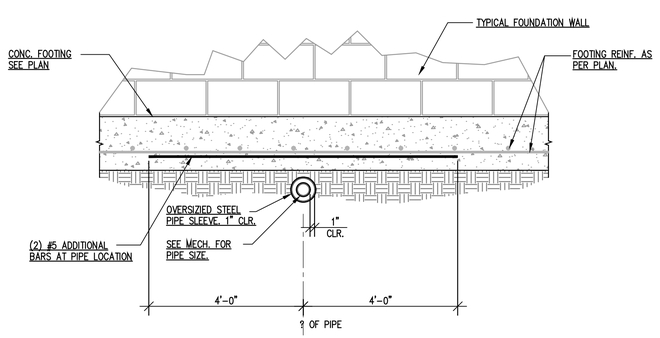
MATERIAL THICKNESS:
(EXAMPLE: 0.054" = 54 MILS; 1 MIL = 1/100 IN.)
MATERIAL THICKNESS IS THE MINIMUM BASE METAL THICKNESS IN MILS. MINIMUM BASE METAL THICKNESS REPRESENTS 95% OF THE DESIGN THICKNESS.

MINIMUM CONCRETE COVER

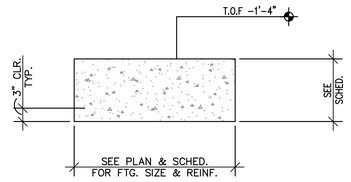
A. CONCRETE CAST AGAINST EARTH:	
1. ALL BARS	3" COVER
B. CONCRETE EXPOSED TO EARTH OR WEATHER	
1. #6 THROUGH #18 BARS	2" COVER
2. #5 BAR AND SMALLER	1-1/2" COVER
C. CONCRETE NOT EXPOSED TO EARTH OR WEATHER	
1. SLABS & WALLS #14 AND #18 BARS	1-1/2" COVER
2. SLABS & WALLS #11 BAR AND SMALLER	3/4" COVER
3. BEAMS & COLUMNS (ALL REINFORCEMENT)	1-1/2" COVER

REBAR LAP SPLICES IN REINFORCED MASONRY

BAR SIZE	REQUIRED LAP
#4 BAR	24" LAP
#5 BAR	30" LAP
#6 BAR	48" LAP
#7 BAR	60" LAP
#8 BAR	90" LAP



TYPICAL DETAIL FOR UTILITIES BELOW WALL FOOTING



TYPICAL "WF" WALL FOOTINGS

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PROJECT NAME
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No.	Date	Description
	9-24-2025	Bid Drawings

PROJECT NUMBER
2025-2006

DRAWN: RC
CHECKED: DL

SHEET TITLE
SECTIONS & DETAILS

SHEET NO.
S3.1

SOUTH CAROLINA PROFESSIONAL ENGINEER — ASHLEIGH BRYAN WEATHERLY — No. 15317 — 9/24/25

SOUTH CAROLINA — WEATHERLY ENGINEERING LLC MYRTLE BEACH, SC — No. 5538 — CERTIFICATE OF AUTHORIZATION

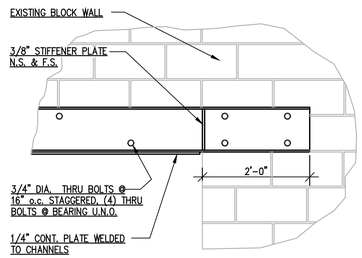
WE PROJECT NO. 25-160

Weatherly STRUCTURAL ENGINEERS

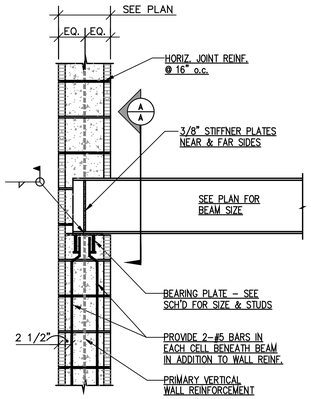
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THIS SHEET PLOTS ON 24"X36" ARCH D
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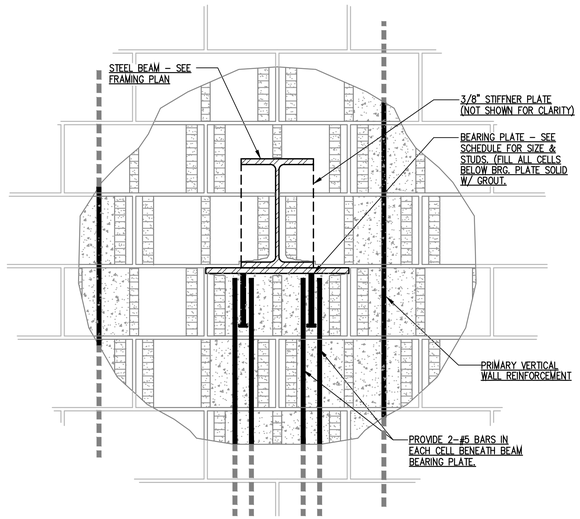
THIS SHEET PLOTS ON 24"X36" ARCH D
3" 2" 1" 1/2" 0



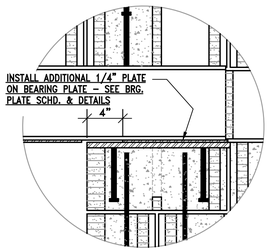
TYPICAL END CONDITION @ CONTINUOUS MASONRY WALL



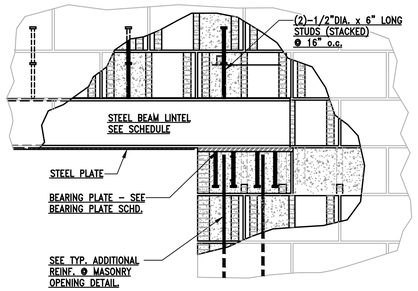
TYPICAL STEEL BEAM BEARING ON MASONRY WALL DETAIL



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



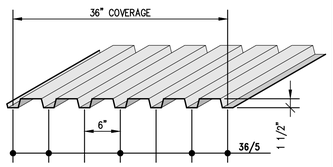
DETAIL FOR OPENINGS GREATER THAN 20'-0" WIDE



TYPICAL STEEL BEAM BEARING DETAIL
NO SCALE

1 1/2" ROOF DECK

TYPE	GAUGE	FINISH			
B	20	GALVANIZED (G60)			
Sp	Sn	Ip	In		Fy min.
0.183 in.³	0.189 in.³	0.162 in.⁴	0.175 in.⁴		33 ksi



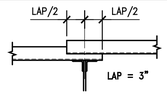
SUPPORT ATTACHMENT

ATTACH DECK TO ALL SUPPORTS WITH HILTI PINS
USING PATTERNS / SPACING INDICATED:
INTERMEDIATE: 36/5
ENDS / END LAPS: 36/5
PERIMETER: 6" o.c.

ATTACH PARTIAL SHEETS IN ALL FLUTES

SIDE LAP ATTACHMENT

SIDE LAPS TO BE ATTACHED BETWEEN SUPPORTS WITH (5) #10 TEKS 1 SCREWS PER SPAN



END LAP DETAIL

LAP END LAPS. END LAPS ARE TO OCCUR AT SUPPORTS ONLY.

CONTRACTOR'S NOTE:

IN ORDER TO PREVENT FIELD FIT-UP AND PLACEMENT ISSUES THE STRUCTURAL STEEL SHOP DRAWINGS SHALL BE CAREFULLY COORDINATED WITH ANY OTHER COMPONENT DRAWINGS, INCLUDING BARJOIST AND DECKING SHOP DRAWINGS. THIS DETAILED COORDINATION IS TO BE PERFORMED BY THE STRUCTURAL STEEL SHOP DRAWING PROVIDER. THE PROVIDERS OF BARJOIST AND DECKING SHOP DRAWINGS (AND OTHER COMPONENTS) SHALL BACK CHECK THE STRUCTURAL STEEL SHOP DRAWINGS AS A SECONDARY VERIFICATION. THE GENERAL CONTRACTOR SHALL PROVIDE HIS OWN CHECK PRIOR TO COMPLETION OF THE SHOP DRAWING PROCESS.

1. SIMPSON STRONG DRIVE XL LARGE - HEAD METAL SCREW #12 x 1 1/4" LG.
2. HILTI PIN X-HSN-24 3/8" LG. X-ENP-19L15 3/8" LG

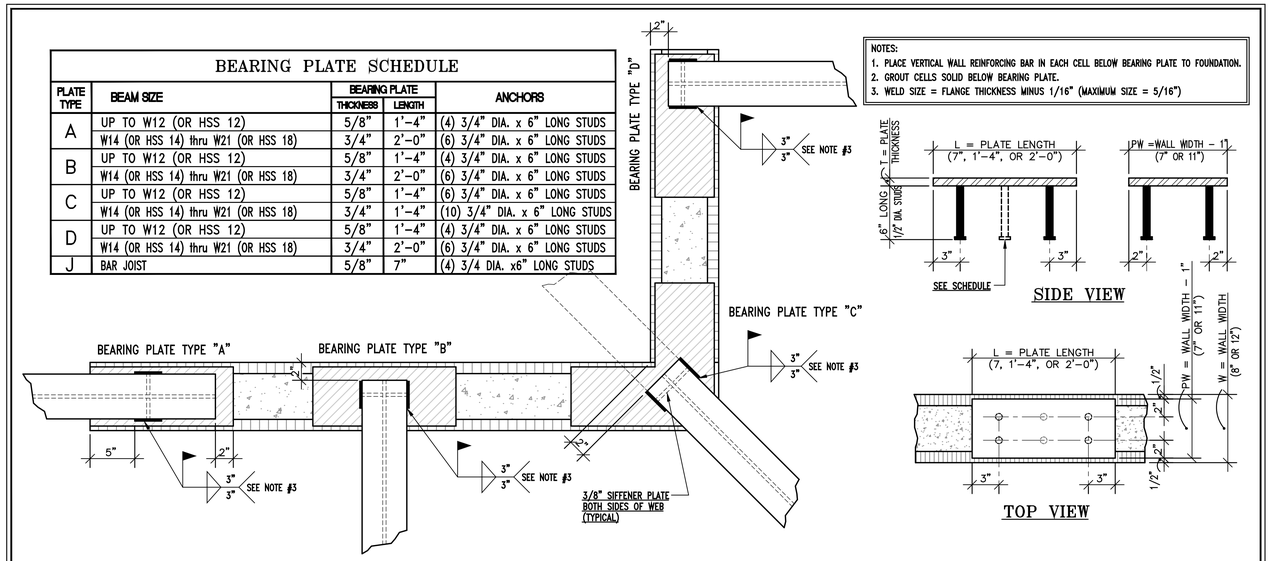
BEAM TO BEAM AND BEAM TO COLUMN CONNECTION CRITERIA

1. ALL FRAMING ANGLES TO BE L-4x4x3/8" U.N.O.
2. ALL SHEAR PLATES TO BE 3/8", U.N.O.
3. PROVIDE 3 ROWS A325 3/4" DIA. BOLTS FOR ALL W12 & W14 BEAMS.
4. PROVIDE 4 ROWS A325 3/4" DIA. BOLTS FOR ALL W16 BEAMS.
5. PROVIDE 5 ROWS A325 3/4" DIA. BOLTS FOR ALL W18 BEAMS.
6. PROVIDE 6 ROWS A325 3/4" DIA. BOLTS FOR ALL W21 BEAMS.
7. PROVIDE 7 ROWS A325 3/4" DIA. BOLTS FOR ALL W24 & W27 BEAMS.

NOTE: THIS SCHEDULE DOES NOT APPLY TO BEAM CONNECTIONS WHERE A COMPOSITE DESIGN SYSTEM IS USED.

BEARING PLATE SCHEDULE

PLATE TYPE	BEAM SIZE	BEARING PLATE THICKNESS	BEARING PLATE LENGTH	ANCHORS
A	UP TO W12 (OR HSS 12)	5/8"	1'-4"	(4) 3/4" DIA. x 6" LONG STUDS
	W14 (OR HSS 14) thru W21 (OR HSS 18)	3/4"	2'-0"	(6) 3/4" DIA. x 6" LONG STUDS
B	UP TO W12 (OR HSS 12)	5/8"	1'-4"	(4) 3/4" DIA. x 6" LONG STUDS
	W14 (OR HSS 14) thru W21 (OR HSS 18)	3/4"	2'-0"	(6) 3/4" DIA. x 6" LONG STUDS
C	UP TO W12 (OR HSS 12)	5/8"	1'-4"	(6) 3/4" DIA. x 6" LONG STUDS
	W14 (OR HSS 14) thru W21 (OR HSS 18)	3/4"	1'-4"	(10) 3/4" DIA. x 6" LONG STUDS
D	UP TO W12 (OR HSS 12)	5/8"	1'-4"	(4) 3/4" DIA. x 6" LONG STUDS
	W14 (OR HSS 14) thru W21 (OR HSS 18)	3/4"	2'-0"	(6) 3/4" DIA. x 6" LONG STUDS
J	BAR JOIST	5/8"	7"	(4) 3/4 DIA. x6" LONG STUDS



NOTES:
1. PLACE VERTICAL WALL REINFORCING BAR IN EACH CELL BELOW BEARING PLATE TO FOUNDATION.
2. GROUT CELLS SOLID BELOW BEARING PLATE.
3. WELD SIZE = FLANGE THICKNESS MINUS 1/16" (MAXIMUM SIZE = 5/16")

SIDE VIEW

TOP VIEW

TYPICAL BEARING PLATE SCHEDULE AND DETAILS

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CONWAY, SOUTH CAROLINA 29526

HORRY GEORGETOWN TECHNICAL COLLEGE

PROJECT NAME

HGTC AUTOMOTIVE TECHNOLOGY BUILDING 1400 EXPANSION

Conway, South Carolina 29526
H59-N302-CB

	Date	Description
	9-24-2025	Bid Drawings

PROJECT NUMBER
2025-2006

DRAWN: CHECKED: DL

SHEET TITLE
ROOF DETAILS

SHEET NO.
S4.0





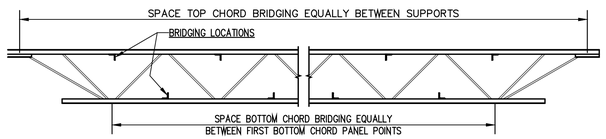
WE PROJECT NO. 25-160

Weatherly STRUCTURAL ENGINEERS

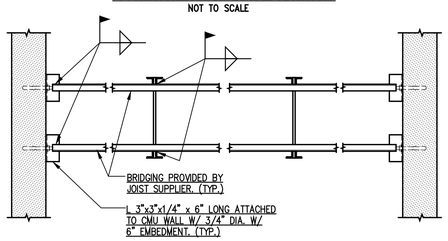
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THIS SHEET PLOTS ON 24"X36" ARCH D
3" 2" 1" 1/2" 0

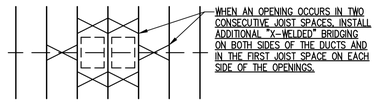


ELEVATION OF BRIDGING LOCATIONS
NOT TO SCALE



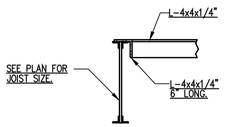
1. FIELD WELD AT ALL CONTACT POINTS. (INCLUDING ALL LAPS).
2. ALL HORIZONTAL BRIDGING SHALL HAVE A STANDARD 3" (76mm) LAP.
3. BRIDGING MUST RUN HORIZONTALLY TO WALL. DIAGONAL BRIDGING BETWEEN JOIST AND WALLS IS NOT ALLOWED.

TYPICAL HORIZONTAL BRIDGING DETAIL
NOT TO SCALE

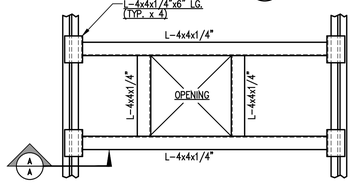


- AFTER ERECTION, WHERE "X" BRIDGING INTERFERES WITH RTU DUCT WORK, MOVE BRIDGING AS REQ'D FOR CLEARANCE AND REINSTALL BY FIELD WELDING.
- AFTER ERECTION, WHERE RTU DUCT WORK INTERFERES WITH HORIZONTAL BRIDGING, BRIDGING MUST BE CUT OUT AND NEW BRIDGING (TO BE SUPPLIED BY TRADE INVOLVED) INSTALLED AS SHOWN ABOVE.

PLAN VIEW OF BRIDGING AT DUCTWORK
NOT TO SCALE



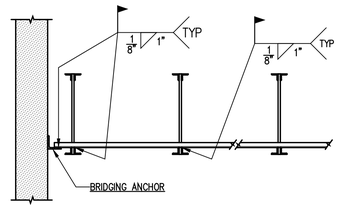
DETAIL A/A



ANGLE SIZE	ALLOWABLE EQUIPMENT LOAD (TOTAL LOAD ON FRAME)	
	SPAN = 4'-0"	SPAN = 5'-0"
L 2"x2"x1/4"	80 lbs	60 lbs
L 3"x3"x1/4"	120 lbs	100 lbs
L 4"x4"x1/4"	160 lbs	133 lbs
L 4"x4"x5/16"	260 lbs	200 lbs
L 4"x4"x3/8"	400 lbs	300 lbs

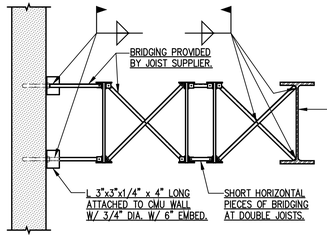
TYP. ROOF PENETRATION FRAMING

NOTE:
CONTRACTOR SHALL INSTALL A 1/4" THICK PLATE FOR FULL WIDTH OF THE SUPPORTING BAR JOIST(S) AND BEAM(S) AS NEEDED TO PROVIDE CONTINUOUS BEARING FOR SUPPORT CURBS. FRAMING NOT REQUIRED FOR PENETRATIONS 12"x12" OR 12" DIAMETER AND SMALLER.

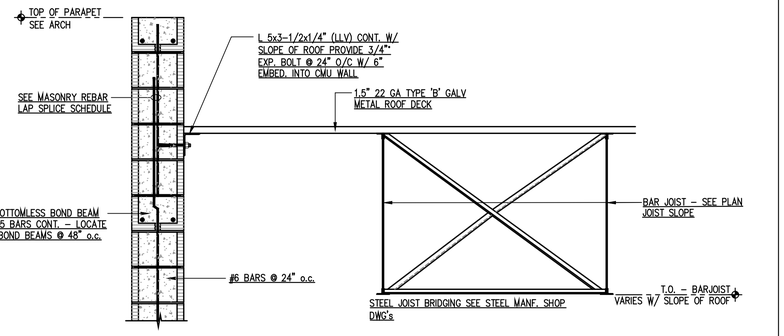


1. FIELD WELD AT ALL CONTACT POINTS (INCLUDING ALL LAPS) WITH 1/8" FILLET USING E70XX LOW HYDROGEN ELECTRODES.
2. ALL HORIZONTAL BRIDGING SHALL HAVE A STANDARD 3" (76mm) LAP.

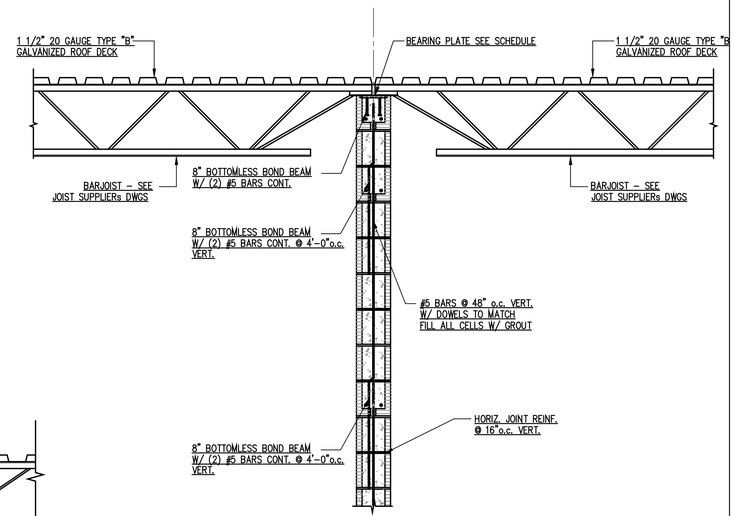
TYPICAL UPLIFT BRIDGING DETAIL
NOT TO SCALE



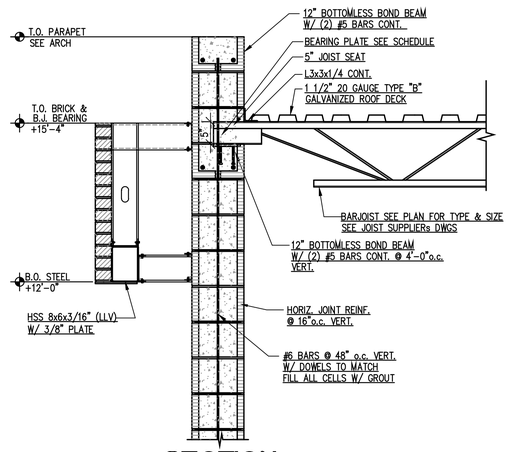
TYPICAL X-BOLTED BRIDGING (A-CLIP)
NOT TO SCALE



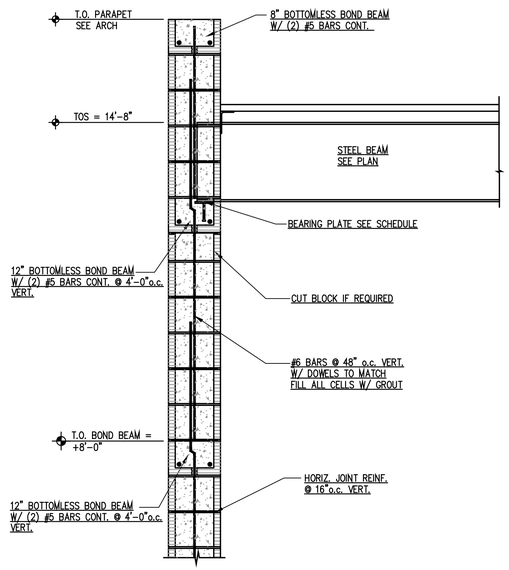
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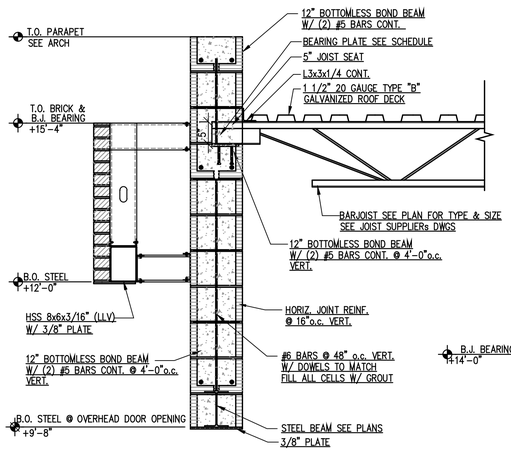
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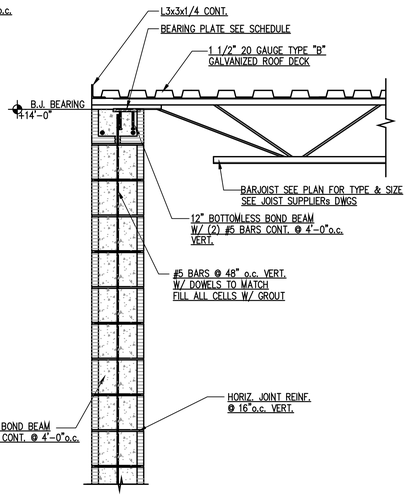
SECTION 3/S4.1
SCALE: 3/4"=1'-0"



SECTION 2/S4.1
SCALE: 3/4"=1'-0"



SECTION 5/S4.1
SCALE: 3/4"=1'-0"



SECTION 6/S4.1
SCALE: 3/4"=1'-0"

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PROJECT NAME
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H59-N302-CB

No.	Date	Description
	9-24-2025	Bid Drawings

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2025-2006

DRAWN: RC
CHECKED: DL

SHEET TITLE
ROOF DETAILS

SHEET NO.
S4.1

Bryan Weatherly — South Carolina Professional Engineer — No. 15317 — 9/24/25 — Registered Assistant: Ashleigh Weatherly

Weatherly Engineering LLC, Myrtle Beach, SC — Certificate of Authorization No. 5538

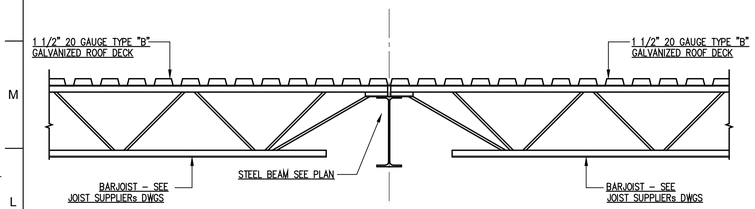
WE PROJECT NO. 25-160

Weatherly STRUCTURAL ENGINEERS

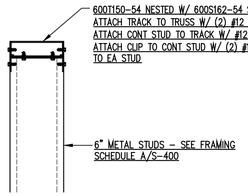
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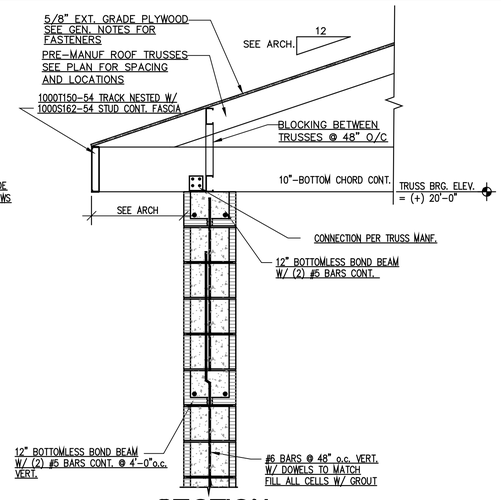
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3" 2" 1" 1/2" 0



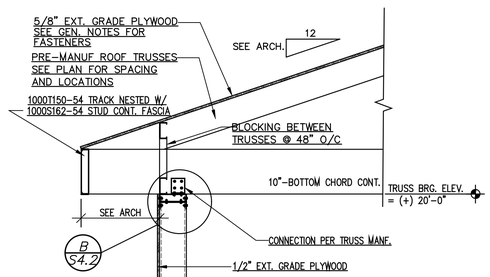
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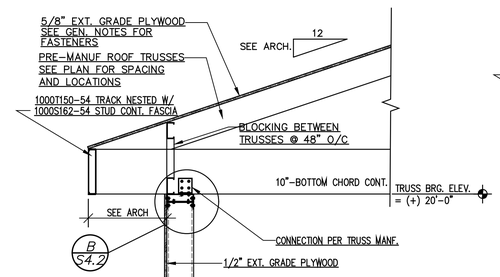
DETAIL B/S4.2
SCALE: 1 1/2"=1'-0"



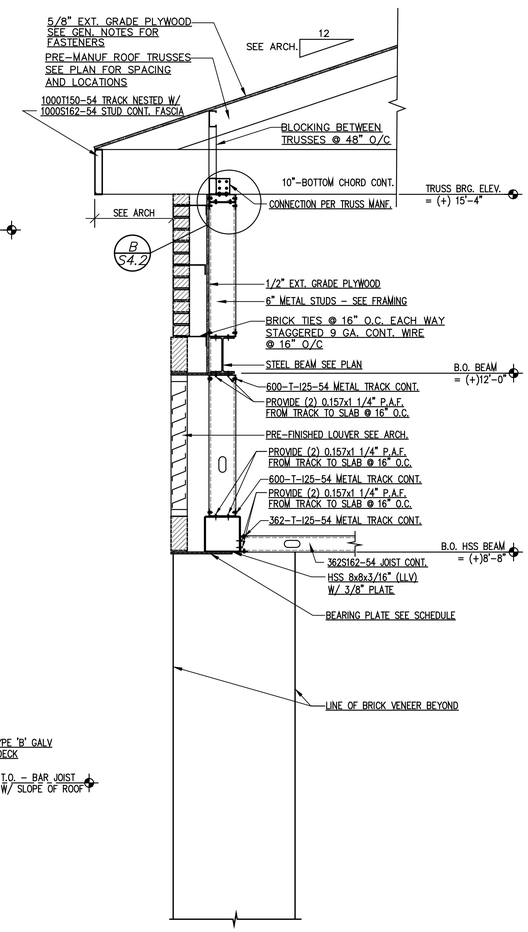
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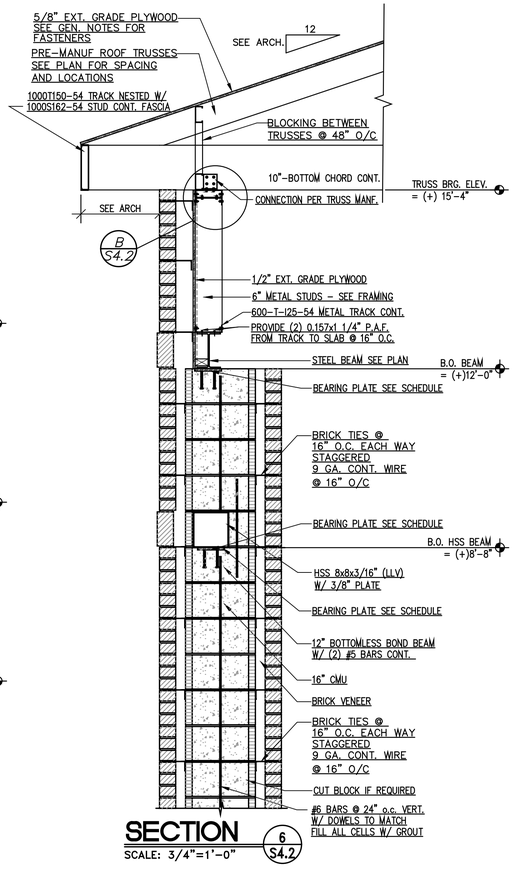
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SECTION 2/S4.2
SCALE: 3/4"=1'-0"



SECTION 5/S4.2
SCALE: 3/4"=1'-0"



SECTION 6/S4.2
SCALE: 3/4"=1'-0"

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HORRY GEORGETOWN TECHNICAL COLLEGE

PROJECT NAME
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Conway, South Carolina 29526
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No.	Date	Description
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PROJECT NUMBER
2025-2006

DRAWN: RC
CHECKED: DL

SHEET TITLE
ROOF DETAILS

SHEET NO.
S4.2

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER ASHLEIGH BRYAN WEATHERLY No. 15317 9/24/25

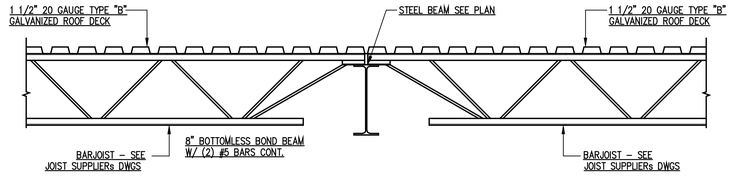
SOUTH CAROLINA WEATHERLY ENGINEERING LLC MYRTLE BEACH, SC No. 5538 CERTIFICATE OF AUTHORIZATION

WE PROJECT NO. 25-160

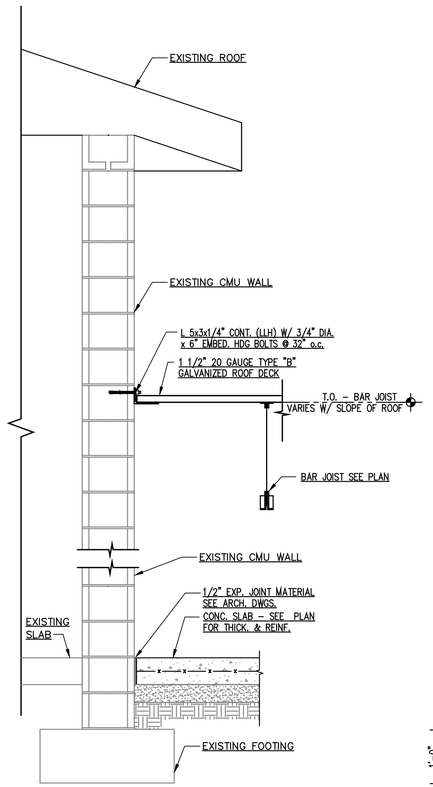
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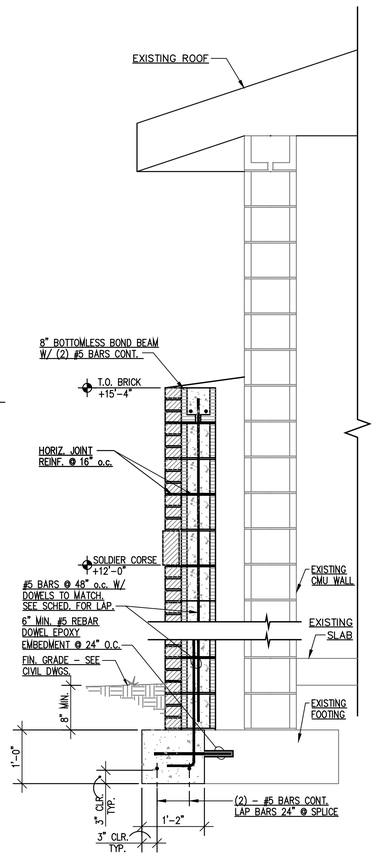
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0 1/2" 1" 2" 3"
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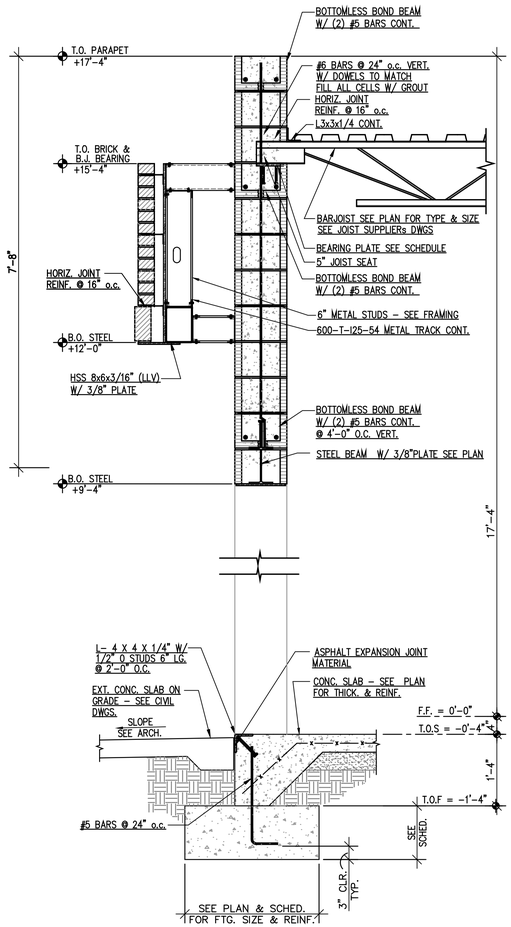
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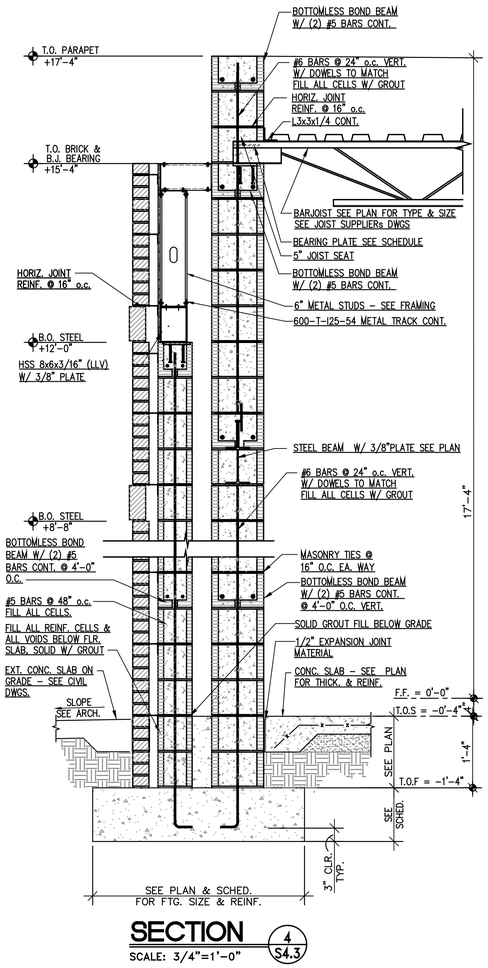
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SECTION 2 S4.3
SCALE: 3/4"=1'-0"



SECTION 3 S4.3
SCALE: 3/4"=1'-0"



SECTION 4 S4.3
SCALE: 3/4"=1'-0"

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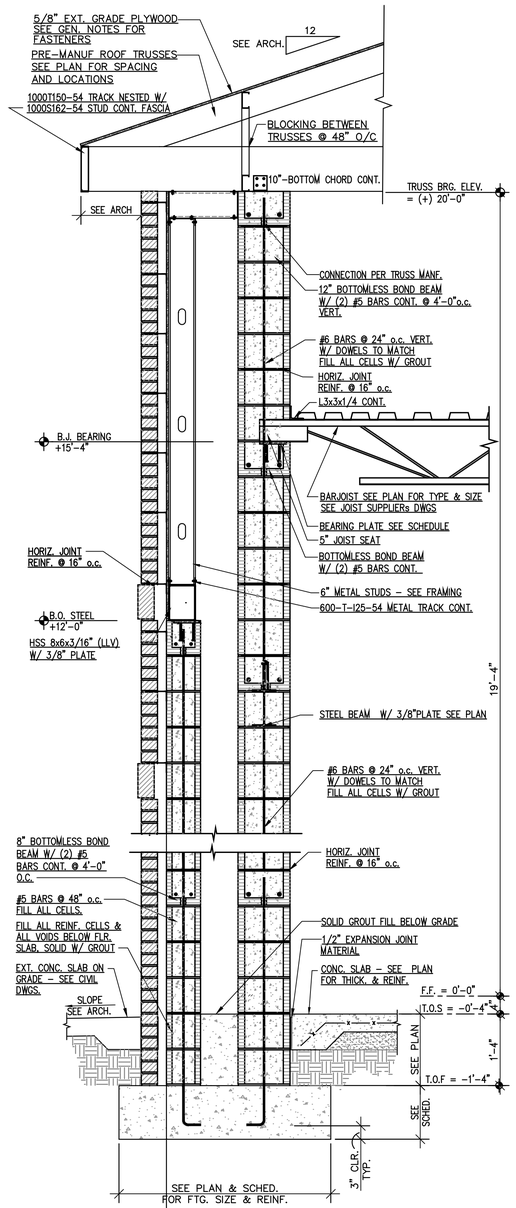
SHEET TITLE
ROOF DETAILS

SHEET NO.
S4.3

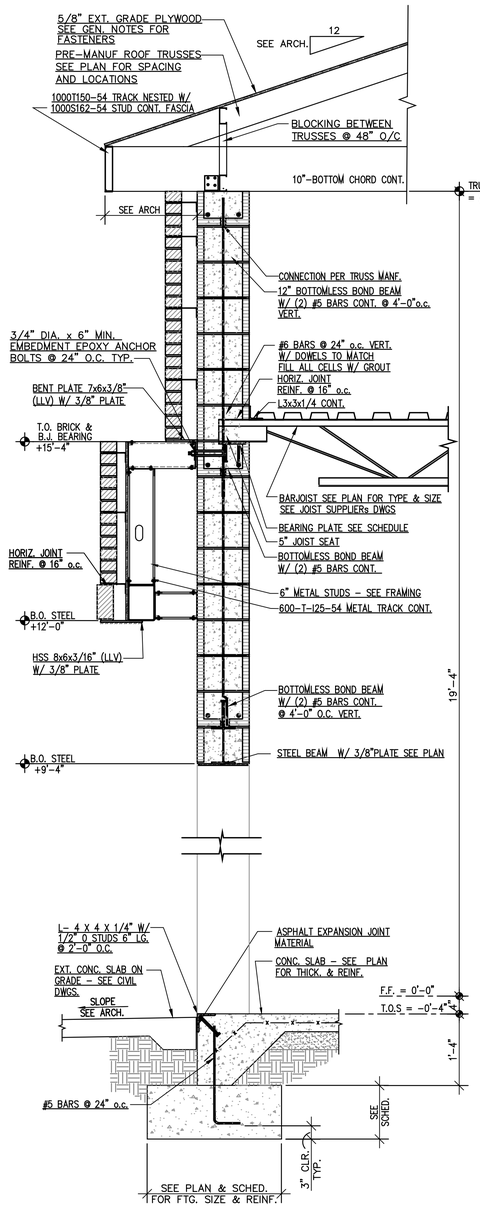
SOUTH CAROLINA PROFESSIONAL ENGINEER BRYAN WEATHERLY No. 15317 9/24/25
WEATHERLY ENGINEERING LLC MYRTLE BEACH, SC No. 5538 CERTIFICATE OF AUTHORIZATION
WE PROJECT NO. 25-160
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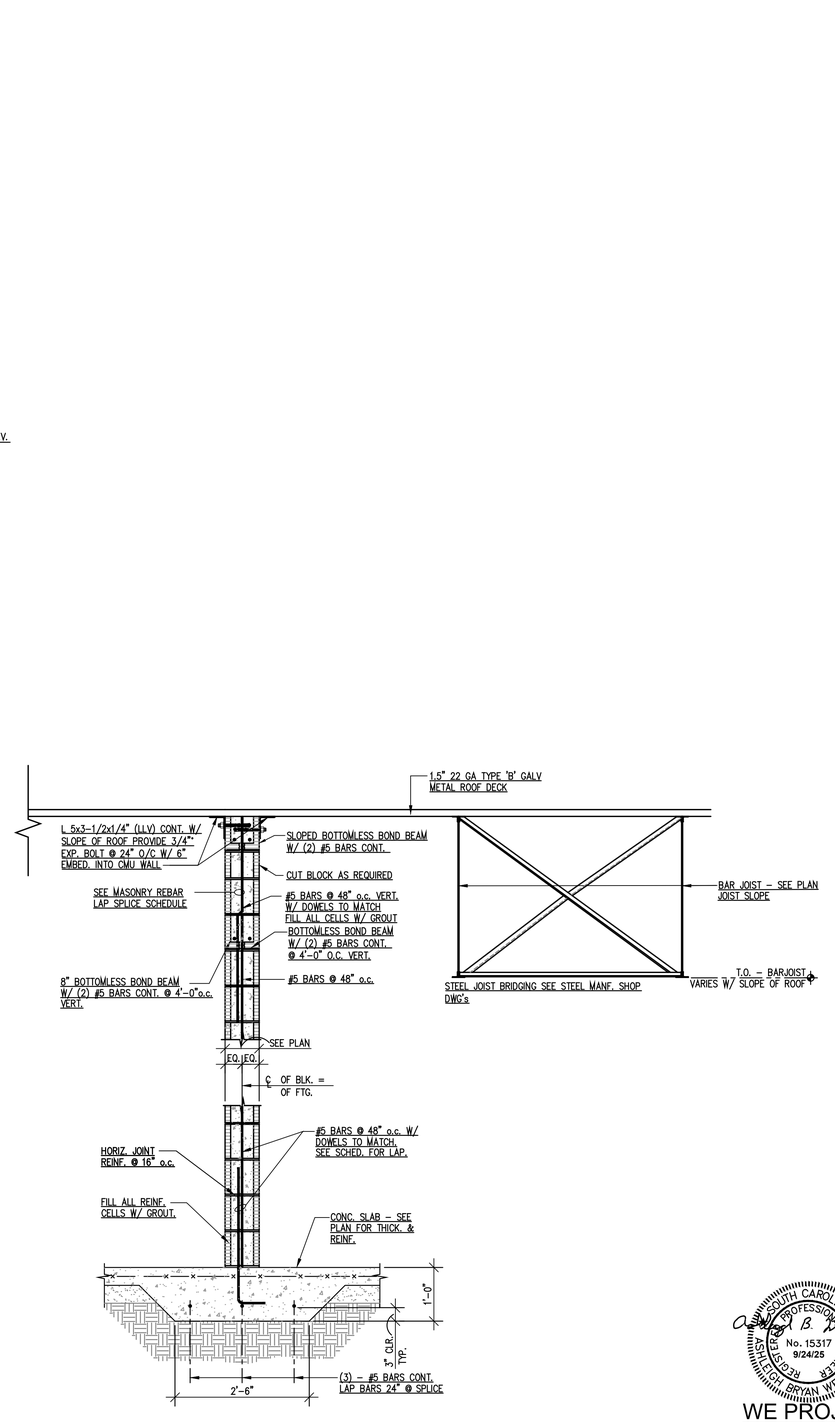
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3" 2" 1" 1/2" 0



SECTION 1 S4.4
SCALE: 3/4"=1'-0"



SECTION 2 S4.4
SCALE: 3/4"=1'-0"



SECTION 3 S4.4
SCALE: 3/4"=1'-0"

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S4.4

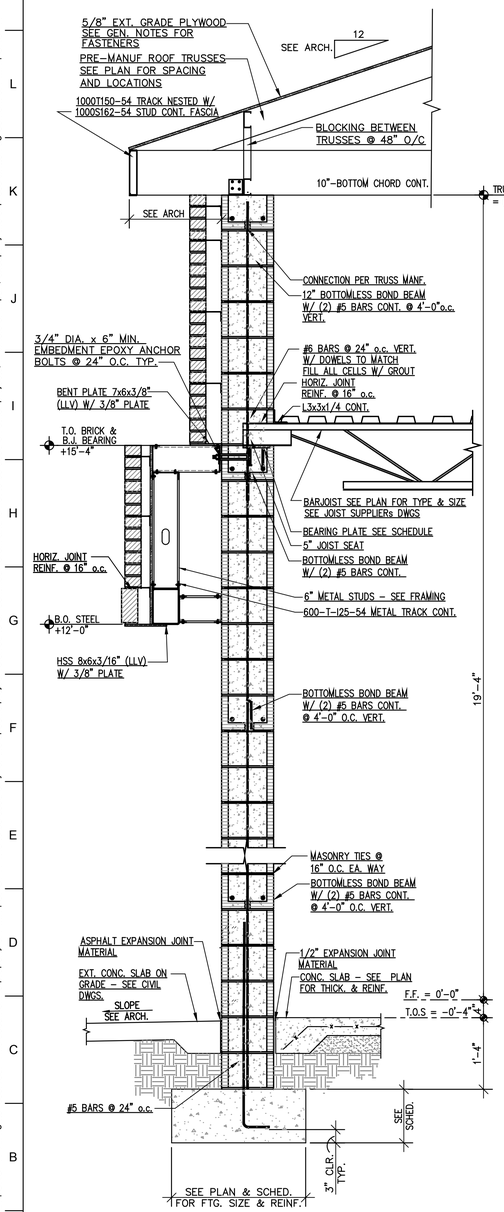
Registered Professional Engineer — Ashleigh Bryan Weatherly — No. 15317 — 9/24/25
South Carolina — Weatherly Engineering LLC — Myrtle Beach, SC — Certificate of Authorization No. 5538

WE PROJECT NO. 25-160

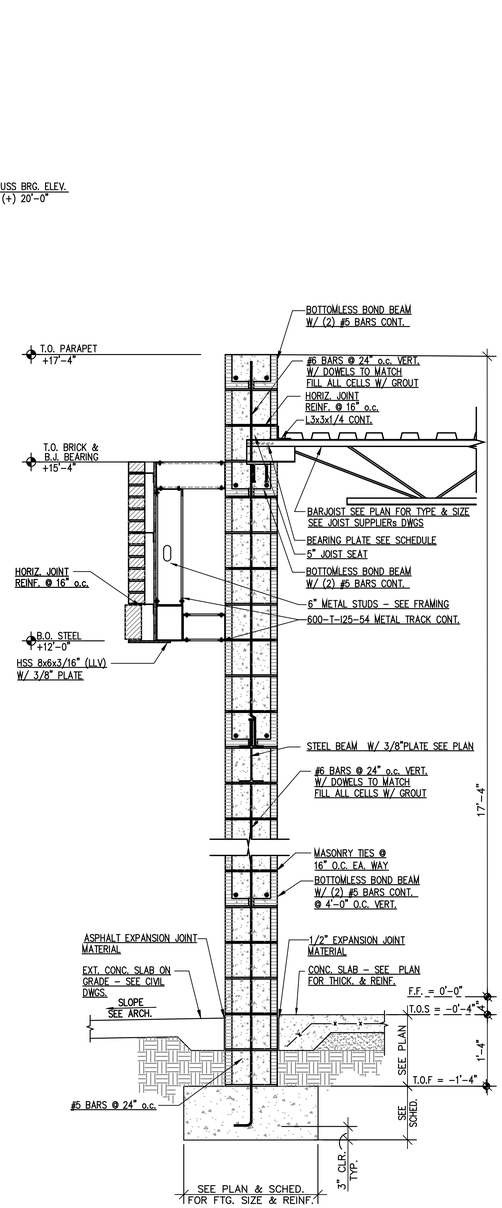
Weatherly STRUCTURAL ENGINEERS

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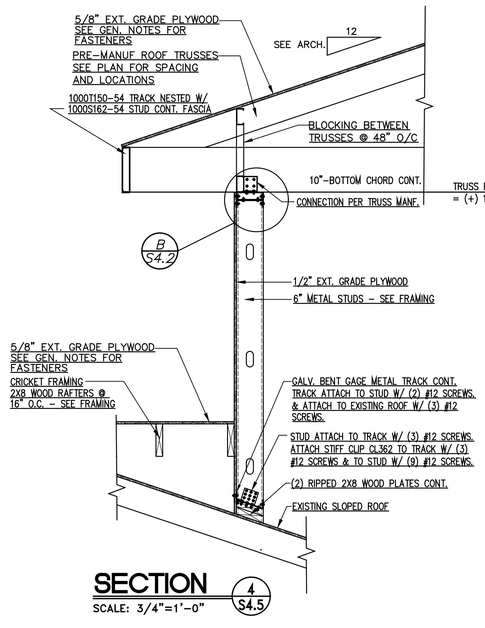
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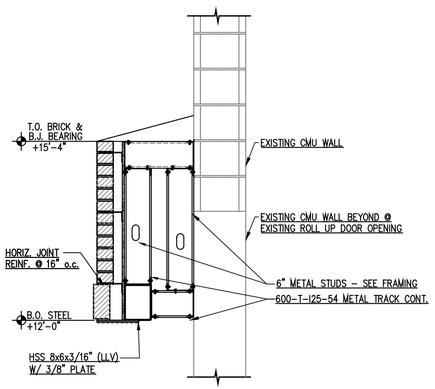
SECTION 1 S4.5
SCALE: 3/4"=1'-0"



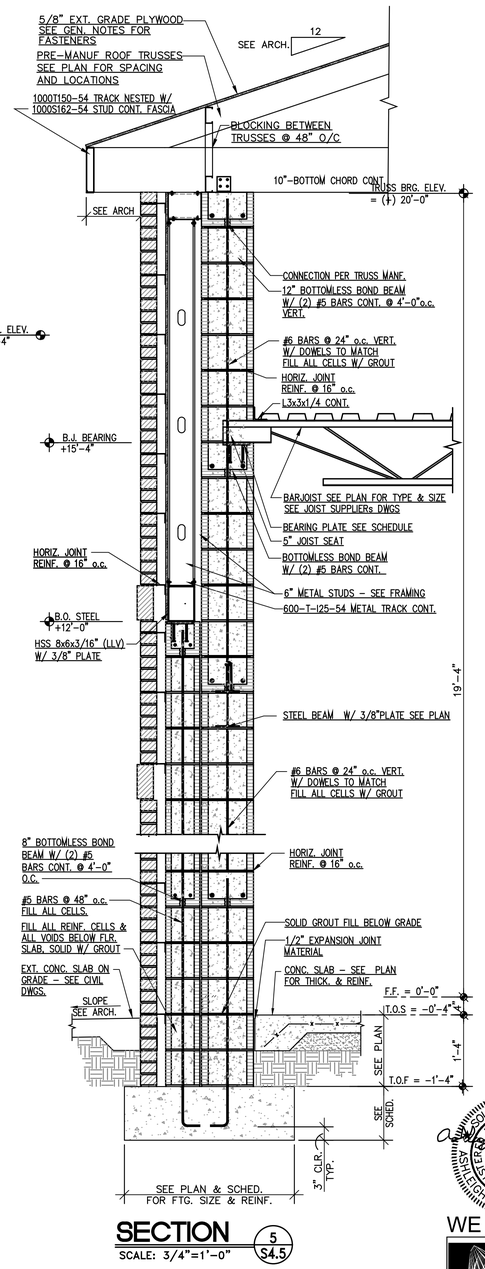
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SCALE: 3/4"=1'-0"



SECTION 4 S4.5
SCALE: 3/4"=1'-0"



SECTION 3 S4.5
SCALE: 3/4"=1'-0"



SECTION 5 S4.5
SCALE: 3/4"=1'-0"

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OWNER
H59-N302-CB CONWAY BUILDING 1400 EXPANSION
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

HORRY GEORGETOWN TECHNICAL COLLEGE

PROJECT NAME
HGTC AUTOMOTIVE TECHNOLOGY BUILDING 1400 EXPANSION

Conway, South Carolina 29526
H59-N302-CB

No.	Date	Description
	9-24-2025	Bid Drawings

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 15317 9/24/25 ASHLEY BRYAN WEATHERLY

WEATHERLY ENGINEERING LLC MYRTLE BEACH, SC No. 5538 CERTIFICATE OF AUTHORIZATION

PROJECT NUMBER
2025-2006

DRAWN: RC
CHECKED: DL

SHEET TITLE
ROOF DETAILS

WE PROJECT NO. 25-160

Weatherly STRUCTURAL ENGINEERS

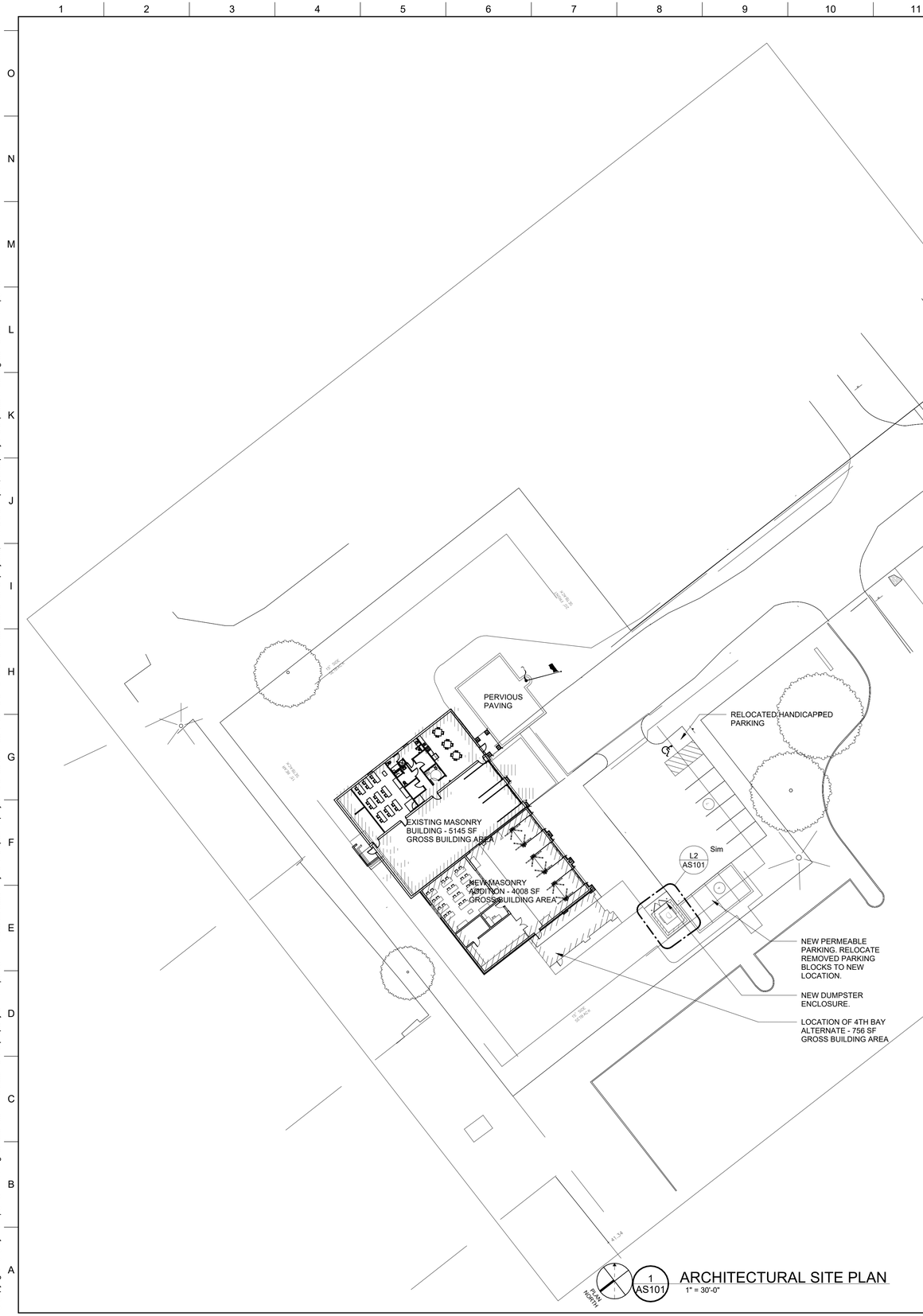
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SHEET NO.
S4.5

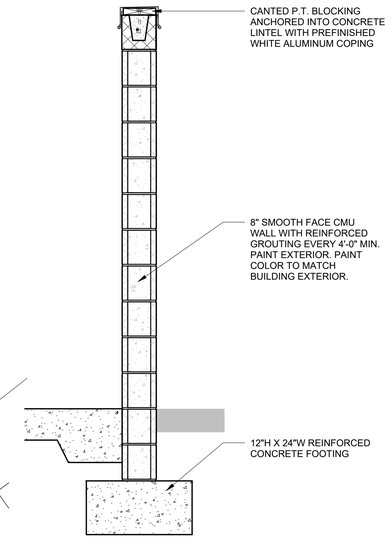
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0 1/2" 1" 2" 3"

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1 AS101 ARCHITECTURAL SITE PLAN
1" = 30'-0"



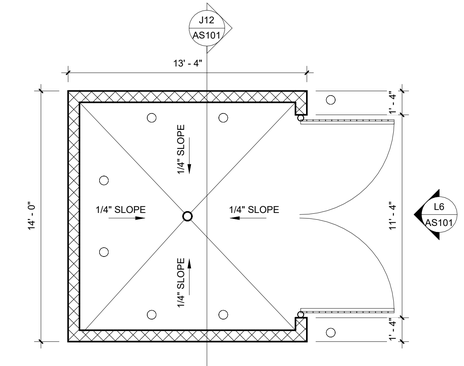
J12 AS101 DUMPSTER -WALL SECTION
3/4" = 1'-0"

GENERAL SITE PLAN NOTES:

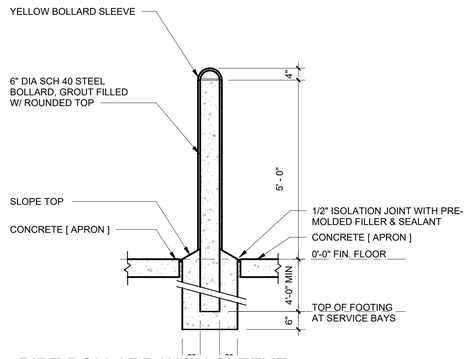
1. STRIPING, RAMP CONSTRUCTION, AND SIGNAGE SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND SPECIFICATIONS.
2. ALL PAVEMENT MARKINGS AND STRIPING IN THE RIGHT-OF-WAY SHALL BE THERMOPLASTIC.
3. 2% MAX SLOPE IN ANY DIRECTION WITH AISLE OR PARKING SPACES.
4. SURFACES OF PEDESTRIAN RAMP SHALL MEET THE GUIDELINES OF THE ADA STANDARD FOR ACCESSIBILITY, APPENDIX A, PART 36.
5. THE SLOPE OF THE GUTTER MUST NOT EXCEED 1:20 ADJACENT TO THE RAMP.
6. DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCHES, A HEIGHT OF NOMINAL 0.2 INCHES AND A CENTER TO CENTER SPACING OF NOMINAL 2.35 INCHES AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES. ALTERNATIVE: IF THE SIDEWALK AND RAMP ARE CONSTRUCTED OF CONCRETE, THE WARNING AREA SHALL BE RED BRICK IN COLOR. IF THE SIDEWALK AND RAMP ARE CONSTRUCTED OF RED BRICK THEN WARNING AREA SHALL BE GREY IN COLOR. THE COLOR USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE.

X	ARCHITECTURAL SHEET NOTES LEGEND
TAG #	TAG DESCRIPTION

L6 AS101 DUMPSTER - FRONT
1/4" = 1'-0"



L2 AS101 DUMPSTER PLAN
1/4" = 1'-0"



B15 AS101 PIPE BOLLARD WITH SLEEVE
1/2" = 1'-0"

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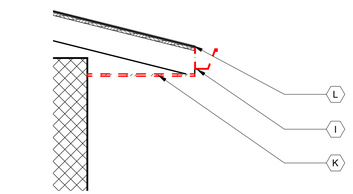
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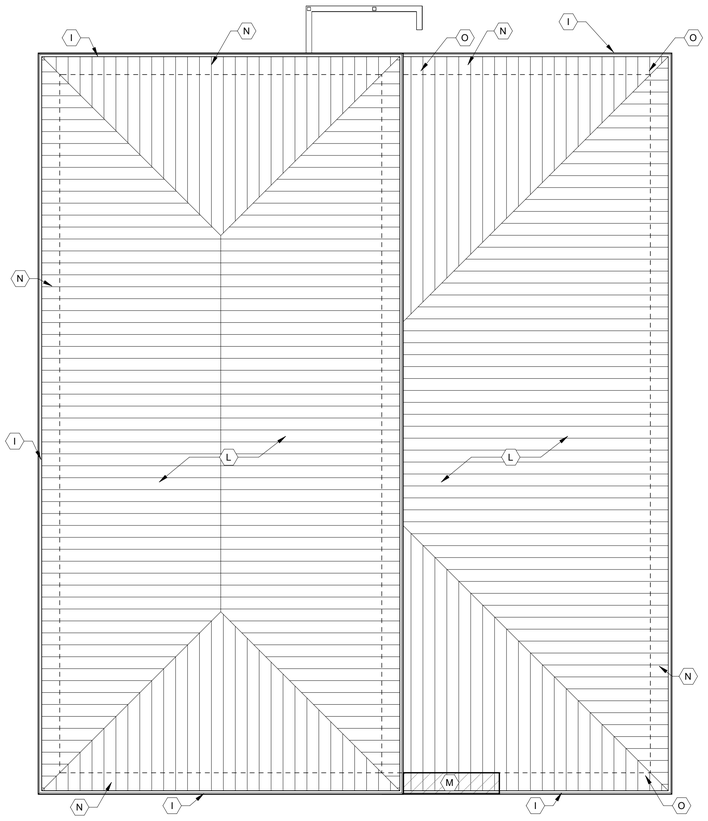
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SHEET TITLE
ARCHITECTURAL SITE PLAN

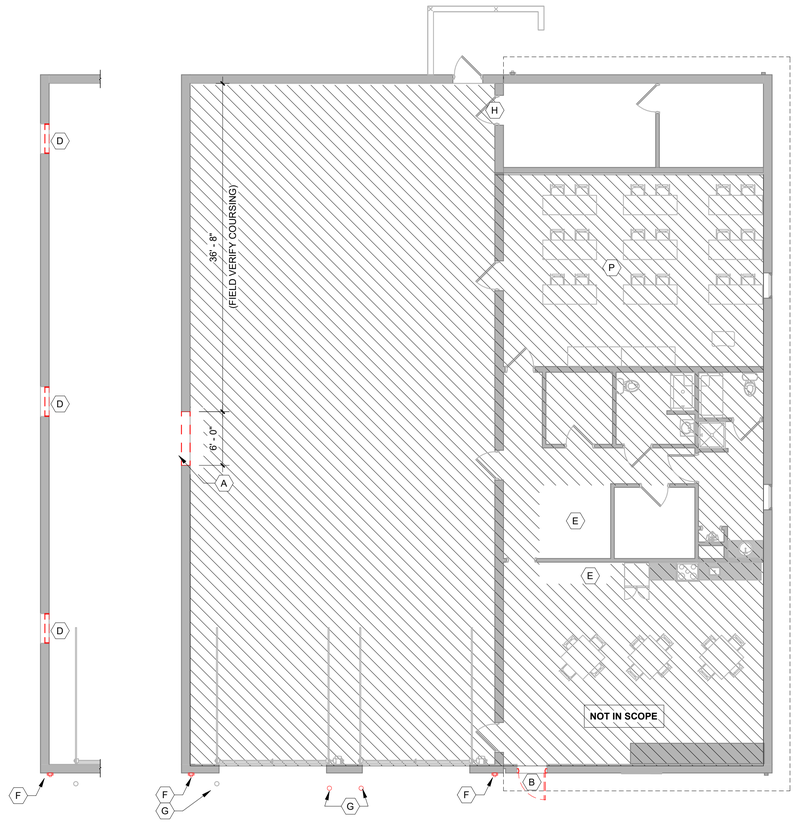
SHEET NO.
AS101



2 AD101 EXISTING EAVE DEMO SECTION
3/4" = 1'-0"



1 AD101 ROOF DEMOLITION PLAN
1/8" = 1'-0"



D8 AD101 DEMO PLAN - HIGH
1/8" = 1'-0"

D10 AD101 DEMOLITION FLOOR PLAN
1/8" = 1'-0"

DEMOLITION PLAN LEGEND:

EXISTING TO REMAIN (SOLID GRAY HATCH)	
EXISTING TO BE DEMOLISHED (RED DASHED LINES)	

GENERAL DEMOLITION NOTES:

PERSONNEL PROTECTION
FURNISH AND MAINTAIN TEMPORARY TYPES OF PROTECTION TO ADEQUATELY PROTECT AND PREVENT ACCIDENTAL INJURY TO THE PUBLIC, VISITORS, AND PERSONNEL EMPLOYED AT THE WORK AREA. TAKE ALL NECESSARY PRECAUTIONS TO KEEP TRESPASSERS OUT OF WORK AREAS. PROPERLY SECURE WORK AREAS FROM ENTRY WHEN WORK IS NOT IN PROGRESS.

EXISTING CONDITIONS
A. OBVIOUS EXISTING CONDITIONS, INSTALLATIONS, AND OBSTRUCTIONS THAT MIGHT AFFECT THE WORK SHALL BE TAKEN INTO CONSIDERATION AS NECESSARY TO PERMIT THE WORK TO BE DONE.

B. ITEMS OF EXISTING CONSTRUCTION INDICATED TO REMAIN UPON COMPLETION OF THE CONTRACT, BUT WHICH REQUIRE REMOVAL TO COMPLETE THE WORK, SHALL BE CAREFULLY REMOVED AND REINSTALLED AS REQUIRED TO MATCH ITS CONDITION AT THE START OF THE WORK .

C. THE CONTRACTOR IS TO VISIT THE SITE TO DETERMINE ALL EXISTING CONDITIONS, INCLUDING ACCESS TO THE SITE, THE NATURE OF STRUCTURES, OBJECTS AND MATERIALS TO BE ENCOUNTERED, AND ALL OTHER FACTS CONCERNING OR AFFECTING THE WORK. INFORMATION ON THE DRAWINGS SHOWING EXISTING CONDITIONS DOES NOT CONSTITUTE A GUARANTEE THAT OTHER ITEMS MAY NOT BE FOUND OR ENCOUNTERED.

PROTECTION OF EXISTING CONDITIONS
A. PROTECT FROM ALL DAMAGE USING BARRICADES, TARPAULINS, TEMPORARY WALLS, PLYWOOD, PLANKING, MASKING, OR OTHER SUITABLE MEANS AND METHODS REVIEWED IN ADVANCE WITH THE ARCHITECT.

B. IF EXISTING TO REMAIN IS DAMAGED, RESTORE TO MATCH ITS CONDITION AT THE START OF WORK AT NO ADDITIONAL COST TO GOVERNMENT.

C. DO NOT DAMAGE OR ALTER ANY STRUCTURAL ELEMENTS OR THE EXISTING BUILDING, UNLESS SHOWN ON STRUCTURAL DRAWINGS. WHERE LOAD BEARING STRUCTURAL ELEMENTS SHOWN ON STRUCTURAL DRAWINGS ARE TO BE REMOVED OR ALTERED, PROVIDE TEMPORARY SHORING THAT CARRIES THE EXISTING LOADS WITHOUT CAUSING DAMAGE OR DEFLECTION.

CLEANING
DO NOT ALLOW DEMOLITION DEBRIS TO ACCUMULATE ON SITE OR IN THE BUILDING. REMOVE FROM SITE DAILY AND DISPOSE OF LEGALLY. KEEP WORK AREA BROOM CLEAN.

CUTTING AND PATCHING
THE CUTTING, PATCHING, REMOVAL, AND/OR REPLACEMENT OF EXISTING CEILINGS, WALLS, PARTITIONS AND FLOORS FOR ACCESS TO VALVES, PIPING, CONDUITS, AND TUBING BY MECHANICAL, PLUMBING AND ELECTRICAL TRADES SHALL BE PERFORMED BY THE APPROPRIATE SUBCONTRACTOR FOR THE WORK INVOLVED, OR BY OTHER PROPERLY QUALIFIED SUBCONTRACTOR OR LABOR AS DETERMINED BY THE CONTRACTOR.

MATCHING EXISTING PRODUCTS
A. WHERE NEW PRODUCTS ARE IN THE SAME VIEWING AREA AS EXISTING ONES, EVERY EFFORT SHALL BE MADE BY THE CONTRACTOR TO USE MATCHING DESIGNS, PATTERNS, AND FINISHES AS EXISTING.

B. IF PRODUCTS MATCHING EXISTING ARE NOT OBTAINABLE, CONTRACTOR SHALL IMPROVE APPEARANCE BY MINOR RELOCATING OF EXISTING PRODUCTS AND GROUPING NEW ONES IN A PATTERN REVIEWED IN ADVANCE WITH THE ARCHITECT.

SALVAGED MATERIALS
CAREFULLY REMOVE TO AVOID DAMAGE AND DELIVER TO A LOCATION DESIGNATED BY THE OWNER. WHERE APPLICABLE, THOROUGHLY CLEAN, PAINT, AND REINSTALL AT THE CONTRACTOR'S OPTION, NEW MATERIALS (MATCHING EXISTING) MAY BE PROVIDED IN LIEU OF REUSING EXISTING.

CONCEALED CONDITIONS
IF SUCH CONDITIONS CAUSE CHANGES IN THE WORK FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS, THE CONTRACT SUM MAY BE ADJUSTED AFTER CONSIDERATION BY THE ARCHITECT IN ACCORDANCE WITH THE GENERAL CONDITIONS.

BUILDING RULES
MEET WITH OWNER TO DISCUSS RULES AND PROCEDURES FOR ACCESS TO WORK AREAS, DELIVERY AND STORING OF MATERIALS, REMOVAL OF TRASH AND DEBRIS, TRASH DUMPSTER LOCATION, CONSTRUCTION PERSONNEL PARKING (IF ANY), AND PORTABLE FACILITIES.

X ARCHITECTURAL DEMO SHEET NOTES LEGEND

TAG #	TAG DESCRIPTION
A	NEW 6'-0" W. X 7'-4" H. OPENING IN EXISTING WALL
B	REMOVE EXISTING ENTRY DOOR AND FRAME FOR REPLACEMENT IN PLACE
D	REMOVE EXISTING HIGH LOUVERS AND INFILL WITH CMU TO MATCH AND ALIGN WITH EXISTING. REMOVE WAL PORTIONS FOR NEW LOUVERS
E	REMOVE FINISHES AS REQUIRED TO PREPARE FOR NEW TOILET ROOM AND DRINKING FOUNTAIN
F	REMOVE EXISTING DOWNSPOUT AND PATCH GUTTERS IN PREPARATION FOR NEW WORK
G	REMOVE EXISTING BOLLARDS AND STOCKPILE FOR REUSE
H	PREPARE EXISTING DOOR FOR NEW EXIT HARDWARE AND CLOSER
I	REMOVE AND REPLACE EXISTING GUTTERS IN PLACE
K	REMOVE EXISTING WOOD SOFFIT
L	REMOVE EXISTING ASPHALT SHINGLES AND UNDERLAYMENT
M	REMOVE EXISTING EAVE OVERHANG AS REQUIRED FOR NEW CONSTRUCTION
N	REMOVE EXISTING WOOD SOFFIT AND VENTING
O	EXISTING DOWNSPOUT TO BE REINSTALLED
P	REMOVE EXISTING CARPET AND UNDERLAYMENT

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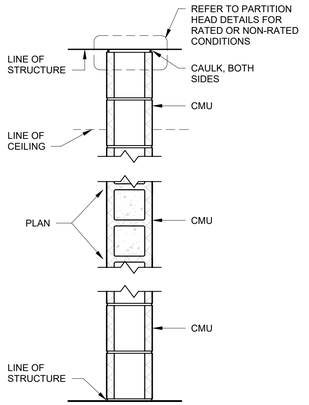
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SHEET TITLE
DEMOLITION PLAN

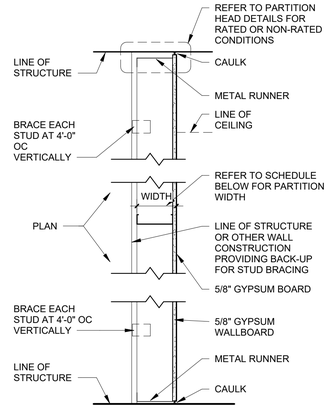
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AD101

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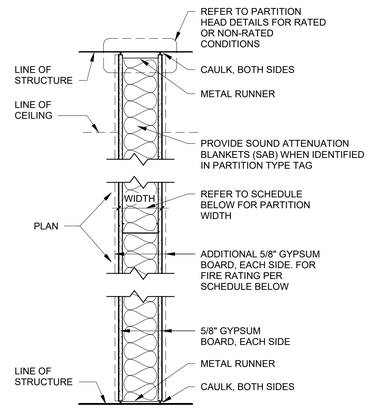
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PARTITION TYPE "M"						
MARK	BLOCK WIDTH	FIRE RATING	UL LISTING	STC RATING	COMMENTS	
M8	7 5/8"	NA	NA	48		



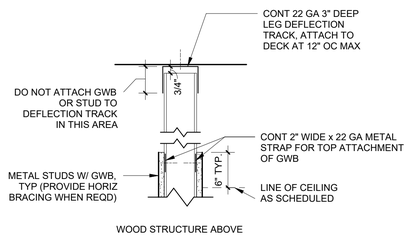
PARTITION TYPE "F"							
MARK	STUD WIDTH	GWB THK (LAYERS PER SIDE)	PARTN WIDTH	FIRE RATING	UL LISTING	STC RATING	COMMENTS
F3	3 5/8"	5/8"	4 1/4"	NA	NA	NA	



PARTITION TYPE "G"							
MARK	STUD WIDTH	GWB THK (LAYERS PER SIDE)	PARTN WIDTH	FIRE RATING	UL LISTING	STC RATING	COMMENTS
G3B	3 5/8"	5/8"	4 7/8"	0.5 HR	U407	42	
1G3A	3 5/8"	5/8" ONE SIDE ONLY	4 1/4"	N/A			

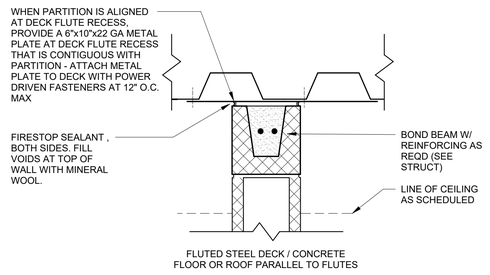
PARTITION NOTES:

1. "LINE OF STRUCTURE" INDICATED FOR EACH PARTITION IS DIAGRAMMATIC ONLY AND DOES NOT INDICATE EXACT CONSTRUCTION CONDITIONS OR GEOMETRY.
2. ALL DIMENSIONS ARE FROM FACE OF CMU TO FACE OF CMU UNLESS NOTED FROM/TO FINISHED FACE OF PARTITION/WALL. REFER TO PARTITION TYPE FOR PARTITION WIDTH UNLESS NOTED OTHERWISE.
3. CAULK:
   A. FIRE RESISTANCE RATED PARTITIONS SHALL USE UL APPROVED RATED FIRE / SMOKE RESISTANT FILL MATERIAL IN CONJUNCTION WITH AN APPROPRIATE RATED FIRE / SMOKE STOPPING SYSTEM.
   B. NON-RATED PARTITIONS AND NON-RATED SMOKE RESISTANT PARTITIONS SHALL USE ACOUSTICAL CAULK.
   C. ALL BOTTOM WALL TRACKS TO BE SET IN A CONTINUOUS BEAD OF ACOUSTICAL CAULK WITH STC >38.
4. INSULATION:
   A. PARTITIONS REQUIRING A FIRE RESISTANT RATING SHALL HAVE MINERAL WOOL INSULATION (FRB) WHEN REQUIRED.
   B. PARTITIONS REQUIRING SOUND ATTENUATION SHALL HAVE SOUND ATTENUATION INSULATION (SAB)
   C. PARTITIONS REQUIRING A THERMAL BARRIER SHALL HAVE THERMAL INSULATION (TIB).
   D. PARTITIONS INDICATED TO RECEIVE BLANKET/ BATT INSULATION SHALL HAVE INSULATION EXTEND FULL HEIGHT OF PARTITION UNLESS OTHERWISE INDICATED. FLOOR TRACK SHALL BE SET IN A CONT STRIP OF ACOUSTICAL CAULK.
5. REFER TO SPECIFICATIONS FOR MINIMUM STUD GUAGE, MAXIMUM SPACING AND ALLOWABLE LIMITING HEIGHTS DEFLECTION CRITERIA FOR GYPSUM WALLBOARD.
6. FIRE RESISTANT AND FIRE RESISTANT SMOKE RATINGS ARE TO SURROUND ALL OPENINGS IN RATED PARTITIONS.
7. FIRE RATED WALLS ARE TO BE CONTINUOUS W/O BEING INTERRUPTED BY OTHER WALLS. SMOKE RESISTANT, FIRE RESISTANT, AND FIRE RESISTANT SMOKE BARRIER PARTITIONS SHALL EXTEND AND SEAL TO INSIDE FACE OF EXTERIOR, INCLUDING EXTENSIONS THROUGH SOFFITS.
8. EACH PARTITION SHOWN ON THE DRAWINGS TO HAVE A FIRE AND/OR SMOKE RESISTANT RATING SHALL BE IDENTIFIED WITH A PERMANENT SIGN OR STENCIL ABOVE THE CEILING ON EACH SIDE OF THE PARTITION NOT EXCEEDING 30'-0" HORIZONTALLY AND WITHIN 15'-0" FROM EACH END IN COMPLIANCE W/ 2021 IBC 703.7 OR AS REQUIRED BY AHJ.
9. REFER TO TOILET ACCESSORIES SHEET AND CASEWORK/MILLWORK SHEET FOR MOUNTING DETAILS AND BLOCKING INFORMATION.
10. ALL BLOCKING TO BE FIRE RETARDANT TREATED.
11. WALLS TO RECEIVE CERAMIC WALL TILE SHALL HAVE TILE BACKER CEMENT BOARDS IN LIEU OF GYPSUM WALLBOARD.
12. PROVIDE METAL STRAPPING @ 24" O.C. MAX VERT TO HOLD INSULATION AT AREAS WITHOUT GYPSUM WALLBOARD.
13. PROVIDE FURRING AROUND ALL PLUMBING, ETC WHERE NECESSARY FOR PARTITION TYPE F1.
14. ALL ELECTRICAL RECEPTACLES AND SIMILAR DEVICES, WHICH OCCUR AT MASONRY FIRE RATED / PARTY WALLS, SHALL HAVE METAL FURRING TO PROVIDE SPACE FOR ELECTRICAL BOXES AND NOT HAVE MASONRY BROKEN OUT.



NON-RATED

F3 / A-001 PARTITION HEAD CONDITIONS
NOT TO SCALE



NON-RATED OR SMOKE RESISTANT

F10 / A-001 PARTITION HEAD CONDITIONS
1 1/2" = 1'-0"

PARTITION TYPE NOMENCLATURE	
	FIRE RATING (WHERE APPLICABLE)
	PARTITION TYPE (SEE TYPES THIS SHEET)
	STUD SIZE (SEE WIDTH IN SCHEDULE)
	PARTITION HEAD CONDITION
	INSULATION BLANKETS/BATTS (WHERE APPLICABLE)
	UNIQUE PARTITION TYPE IDENTIFIER (WHERE APPLICABLE)
1G3BS1 TE=3'-6"	TOP OF PARTIAL HEIGHT PARTITION (PARTITION HEAD CONDITION 'D') (WHERE APPLICABLE)

PARTITION TYPES	
C	CHASE
F	FURRING
G	METAL STUD
H	HYBRID
M	MASONRY
S	SHAFT
W	WOOD

PARTITION METAL / WOOD STUD OR CMU WIDTH				
NUMBER CHARACTER	METAL STUD WIDTH	WOOD STUD WIDTH	CMU WIDTH	REMARKS
0	7/8"	NA	NA	7/8" FURRING CHANNEL
1	1-5/8"	NA	NA	
2	2-1/2"	1-1/2"	1-5/8"	CMU = SOAP BLOCK
3	3-5/8"	2-1/2"	NA	
4	4"	3-1/2"	3-5/8"	
6	6"	5-1/2"	5-5/8"	
8	8"	7-1/4"	7-5/8"	
10	10"	9-1/4"	9 5/8"	

INSULATION BLANKETS / BATTS	
F	FIRE RESISTANT (FRB)
S	SOUND ATTENUATION (SAB)
T	THERMAL (TIB)

PARTITION HEAD CONDITION DESIGNATOR	
A	PARTITION TO BOTTOM OF STRUCTURAL ROOF OR FLOOR DECK ABOVE
B	PARTITION TO 6" ABOVE CEILING - EXTEND METAL STUD TO STRUCTURE PER SPECIFICATIONS
C	PARTITION TO BOTTOM OF CEILING ABOVE
D	PARTIAL HEIGHT PARTITION - SEE FLOOR PLAN FOR HEIGHT

UNIQUE PARTITION TYPE IDENTIFIER	
1	

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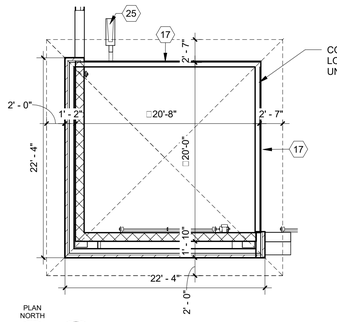
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DRAWN: CRF
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SHEET TITLE
PARTITION TYPES

SHEET NO.
A-001

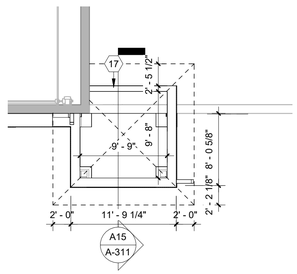
THIS SHEET PLOTS ON 24"x36" ARCH D
3" 2" 1" 1/2" 0
9/24/2025 5:17:19 PM
Autodesk Docs://2025-2006 HGTC Automotive Technology/2025-2006 HGTC Automotive Tech_A25.rvt
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PLAN NORTH — L-9 / A-101

CORNER TOWER PLAN

1/8" = 1'-0"



PLAN NORTH — L-13 / A-101

ENTRY TOWER PLAN

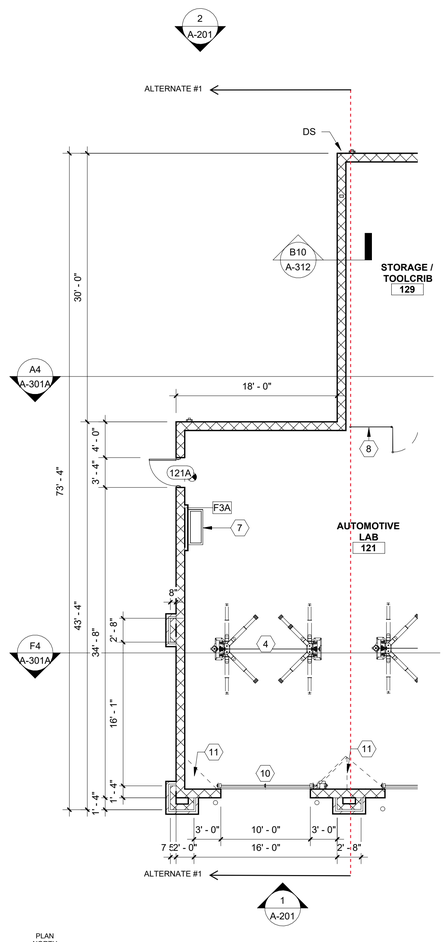
1/8" = 1'-0"

GENERAL FLOOR PLAN NOTES:

1. DO NOT SCALE DRAWINGS. USE DIMENSIONS ONLY.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND JOB CONDITIONS AND NOTIFY ARCHITECT IMMEDIATELY OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. WORK IS TO BE PLANNED SO THAT DISCREPANCIES ARE DISCOVERED WITH ADEQUATE TIME FOR REVIEW BY ARCHITECT WITHOUT DELAY TO SCHEDULE.
3. NO CHANGES, MODIFICATIONS OR DEVIATIONS SHALL BE MADE FROM THE DRAWINGS WITHOUT FIRST SECURING WRITTEN PERMISSION FROM THE ARCHITECT.
4. REQUEST WRITTEN INTERPRETATION FROM THE ARCHITECT FOR LACK OF OR AMBIGUITY OF INFORMATION IN THE DRAWINGS PRIOR TO PROCEEDING WITH THAT PORTION OF THE WORK.
5. HINGE FRAME OF DOORS SHALL BE LOCATED 4" FROM ADJACENT STUD AND CONC. WALLS AND 8" FROM CMU WALLS, UNO.
6. DIMENSIONS ARE TO FACE OF STUD, MASONRY, CONC., OR GRIDLINE, UNO.
7. LOCATION OF ALL WALL MOUNTED DEVICES SHALL BE VERIFIED WITH ARCHITECT PRIOR TO INSTALLATION.

ARCHITECTURAL SHEET NOTES LEGEND

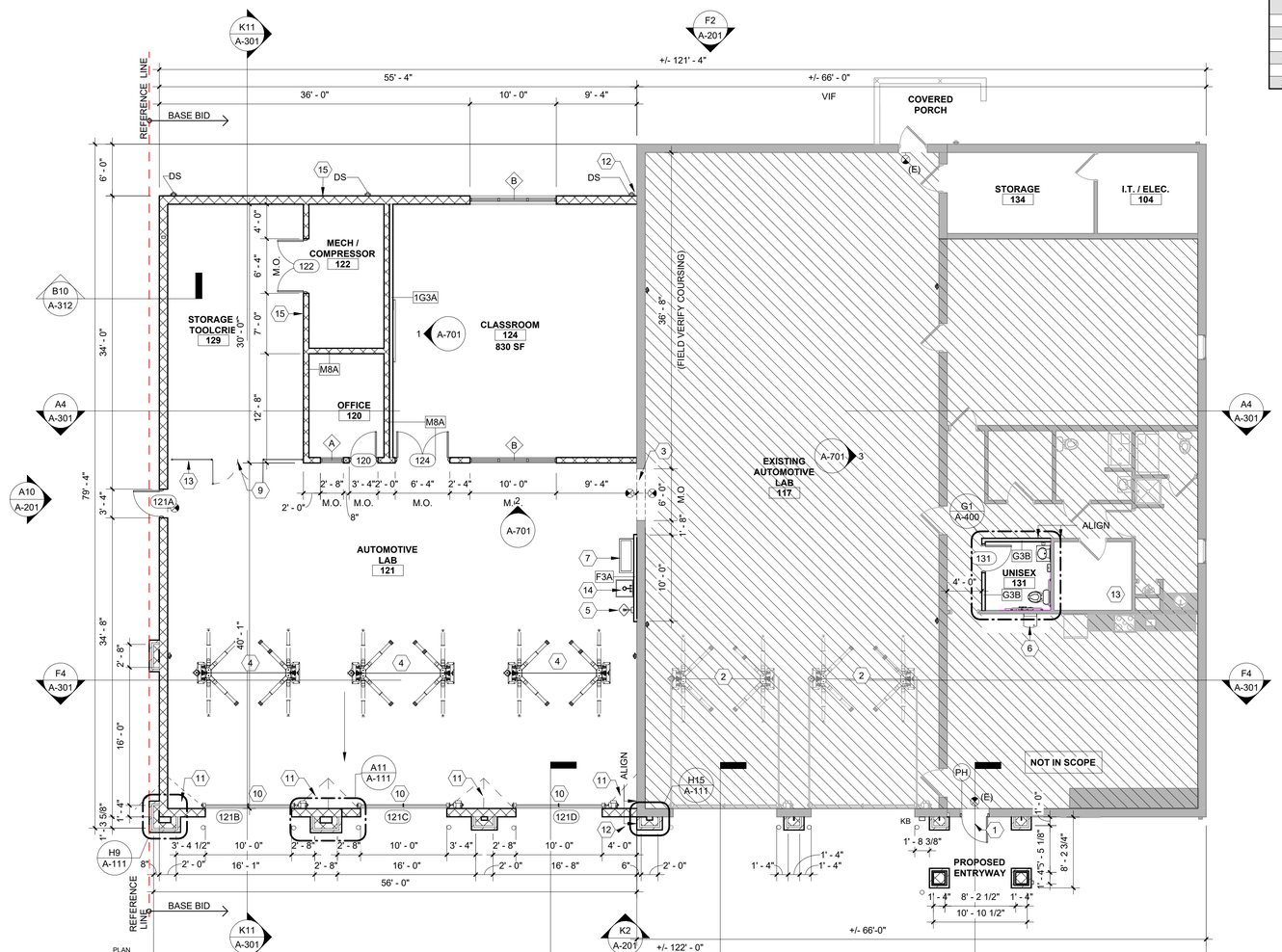
X	TAG DESCRIPTION
1	NEW MASONRY OPENING
2	EXISTING HYDRAULIC LIFTS
3	NEW MASONRY OPENING. FRAME WITH 3/16 PLATE STEEL ANCHORED TO EXISTING CMU, PAINTED
4	NEW 10,000# DUAL POST HYDRAULIC LIFTS BY OWNER. COORDINATE LOCATION WITH OWNER.
5	EYEWASH LOCATION
6	NEW DRINKING FOUNTAIN / BOTTLE FILLER. COORDINATE LOCATION WITH EXISTING THERMOSTAT
7	SERVICE SINK
8	NEW 8'-0" HIGH CHAINLINK FENCE
9	(2) 3'-0" WIDE BY 8'-0"H. CHAIN LINK GATES
10	INSULATED MOTORIZED OVERHEAD DOOR
11	FEATHER OUT CONCRETE FLOORS FOR POSITIVE DRAINAGE TOWARD BAY DOORS
12	EXPANSION JOINT AT NEW AND EXISTING WALLS
13	WATER HEATER LOCATION. SEE MEP PLANS
14	NEW MOP SINK AND FAUCET
15	COORDINATE LOUVER SIZES AND LOCATION WITH MECHANICAL
17	METAL PANEL CLADDING
25	NEW DOWNSPOUT TO DISCHARGE ONTO SPLASHBLOCK ON ROOF



PLAN NORTH — A1 / A-101

FLOOR PLAN - ALTERNATE

1/8" = 1'-0"



PLAN NORTH — A6 / A-101

FLOOR PLAN - BASE BID

1/8" = 1'-0"

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ARCHITECTS & ENGINEERS
1300 Professional Drive, Suite 201
Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
www.pmhcroft.com

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STATE OF SOUTH CAROLINA — GREGORY T. McFARLAND — MYRTLE BEACH, S.C. — 5047 — REGISTERED ARCHITECT

OWNER

HORRY GEORGETOWN TECHNICAL COLLEGE

2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

HORRY GEORGETOWN TECHNICAL COLLEGE

PROJECT NAME

HGTC AUTOMOTIVE TECHNOLOGY BLDG. 1400 EXPANSION

CONWAY,SC 29526

H59-N302-CB

No.	Date	Description
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		ISSUANCE

PROJECT NUMBER
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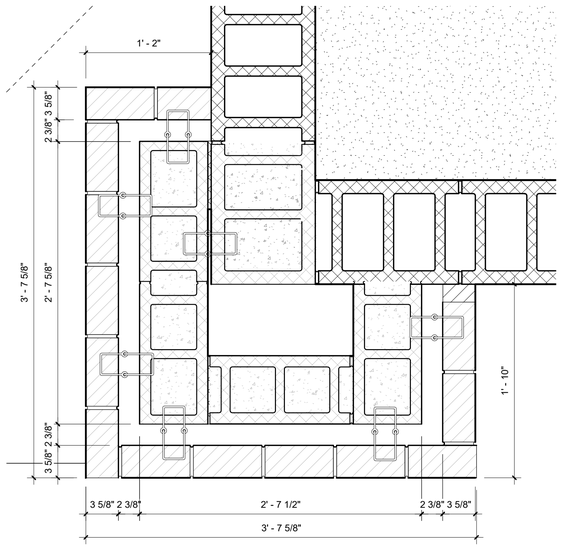
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CHECKED: CKH

SHEET TITLE
FLOOR PLANS

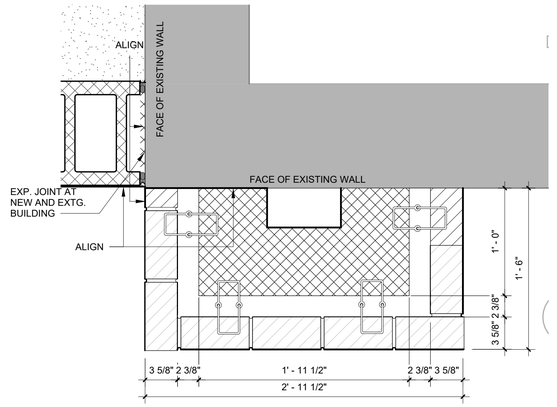
SHEET NO.
A-101

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0 1/2" 1" 2" 3"
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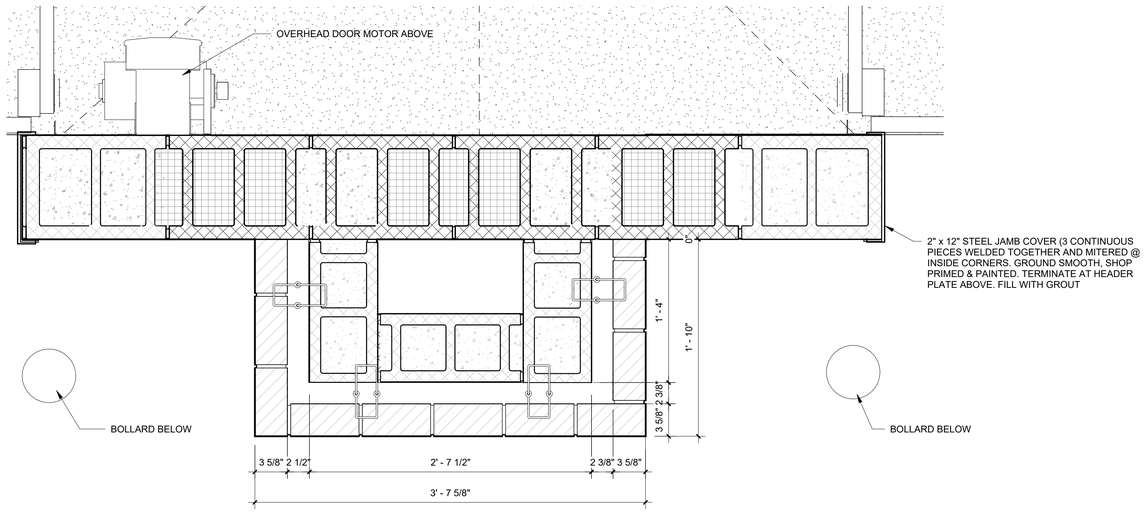
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H9 A-111 PLAN DETAIL 3
NOT TO SCALE



H15 A-111 PLAN DETAIL 2
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A11 A-111 PLAN DETAIL 1
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Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
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Croft &Associates SC, LLC
MYRTLE BEACH, S.C.
102094
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GREGORY T. McFARLAND
MYRTLE BEACH, S.C.
5047
REGISTERED ARCHITECT

OWNER

HORRY GEORGETOWN TECHNICAL COLLEGE

2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

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ISSUANCE		

PROJECT NUMBER
2025-2006

DRAWN: CRF
CHECKED: CKH

SHEET TITLE
ENLARGED PLAN DETAILS

SHEET NO.
A-111

THIS SHEET PLOTS ON 24"x36" ARCH D

3" 2" 1" 1/2" 0

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CEILING TYPE SCHEDULE		
CEILING TYPE	MANUFACTURER, BASIS OF DESIGN	NOTES
A	MOISTURE RESISTANT GWB, PAINTED	PAINTED WHITE
B	ARMSTRONG, OPTIMA 2'X2' LAY-IN	

ARCHITECTURAL SHEET NOTES LEGEND	
TAG #	TAG DESCRIPTION
35	PAINT EXISTING ROOF STRUCTURE AND UNDERSIDE OF DECK, WHITE
36	FABRIC DUCTWORK. SEE MECHANICAL
37	NEW HIGH BAY LIGHTING. SEE ELECTRICAL
38	NEW 4' X 5' METAL CANOPY AT EXIT DOOR

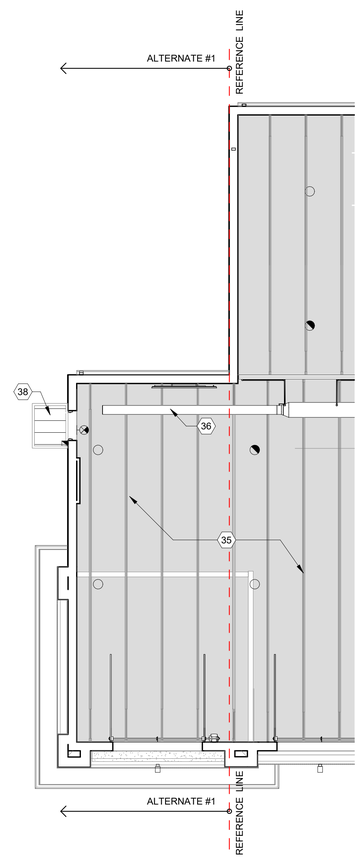
REFLECTED CEILING PLAN NOTES

RCP LEGEND:

- GWB CEILING
- 2' x 2' ACT GRID
- 2' x 2' DIRECT LED
- 2' x 4' DIRECT LED
- 6" RECESSED CYLINDER
- 4' INTERIOR STRIP
- 2' x 4' LED HIGH-BAY LIGHT
- HIGH-BAY ACRYLIC REFLECTOR
- HIGH-BAY SUSPENDED SEALED
- 2' x 2' SUPPLY DIFFUSER
- 2' x 2' RETURN REGISTER
- X | 1' - 0" — CEILING TAG
- EXP — EXPOSED TO STRUCTURE
- SUSPENDED CABLE TRAY

GENERAL REFLECTED CEILING PLAN NOTES

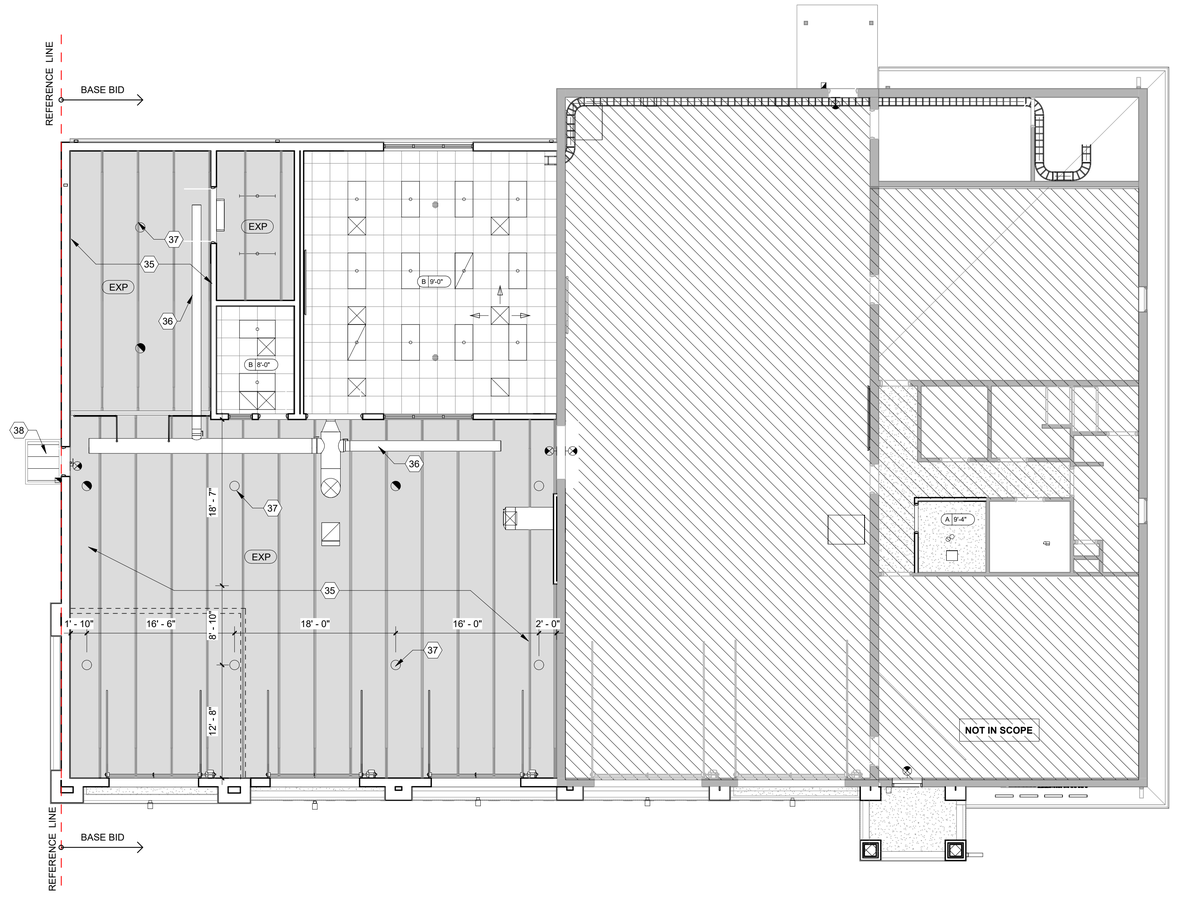
1. IF THERE ARE QUESTIONS REGARDING THE ITEMS NOTED HEREIN OR OTHER COORDINATION ISSUES, THE CONTRACTOR SHALL OBTAIN A WRITTEN CLARIFICATION FROM THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK. [SEE NOTE 2, A-101.]
2. VERIFY FIELD CONDITIONS AND LOCATIONS OF ELECTRICAL, MECHANICAL, PLUMBING, AND STRUCTURAL ELEMENTS AND ANY OTHER APPLICABLE ITEMS. REVIEW AND DETERMINE CEILING CAVITY EQUIPMENT TO ENSURE ADEQUATE CLEARANCES FOR CEILING LAYOUT BEFORE RELATED ELEMENTS ARE CONSTRUCTED.
3. DEVICES ON THIS PLAN HAVE BEEN SHOWN FOR COORDINATION PURPOSES ONLY. ALL DEVICES MAY NOT BE SHOWN. INSTALL ALL DEVICES INDICATED ON THE MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION AND OTHER APPLICABLE DRAWINGS FOR ITEMS NOT SHOWN ON REFLECTED CEILING PLANS IN COORDINATION W/ THE ARCHITECT.
4. ALL MEP WORK SHALL BE PLANNED TO MINIMIZE THE AMOUNT OF ACCESS PANELS IN HARD CEILINGS. GENERAL CONTRACTOR TO COORDINATE PANEL LOCATIONS. UNFINISHED PANELS ARE TO BE FINISHED TO MATCH ADJACENT SURFACE.
5. DIMENSIONS ARE FACE OF FINISH TO CENTER OF FIXTURE UNO.
6. SEE SHEET [A-001] FOR PARTITION TYPES, UNIQUE PARTITION CHARACTERISTICS AND HEIGHT OF PARTITIONS, AND FOR HEAD CONDITIONS.
7. CEILING GRIDS AND TILE SHALL BE ORIENTED WITHIN SPACES AS SHOWN, UNO. FULL TILE SHALL ABUT DESIGNATED WALL WHERE INDICATED. LIMIT PARTIAL TILES TO NO LESS THAN 6".
8. AT PARTITIONS NOT EXTENDING TO THE STRUCTURE ABOVE AND WITH SOUND ATTENUATION INSULATION, PROVIDE 2'-0" WIDE SOUND ATTENUATION INSULATION ON CEILING ON BOTH SIDES OF PARTITION.
9. PROVIDE SOUND ATTENUATION INSULATION ABOVE CEILING UNDER MECHANICAL UNITS AND 5'-0" BEYOND ALL 4 SIDES OF UNIT.
10. LOCATION OF LIGHT SWITCHES SHALL BE VERIFIED W/ CONTRACTING OFFICER PRIOR TO INSTALLATION.
11. ALL SPRINKLER HEADS, RECESSED LIGHTS AND SIMILAR CEILING MOUNTED EQUIPMENT TO BE CENTERED IN CEILING TILE UNO. ALIGN CENTERS OR EDGES OF SAME MULTIPLE ITEMS.
12. DISCUSS ALL VISIBLE EQUIPMENT, E.G., SPRINKLER HEADS, CONNECTING PIPES, CONDUITS ETC. W/ ARCHITECT BEFORE INSTALLATION. ALL VISIBLE PIPING, CONDUIT, ETC., TO BE STRAIGHT, LEVEL, AND PARALLEL TO ADJACENT WORK. WORK INSTALLED UNSATISFACTORILY WILL BE RELOCATED AT CONTRACTOR'S EXPENSE.
13. REFER TO MECHANICAL DWGS FOR EXTENT OF DUCTWORK IN EXPOSED STRUCTURE AREAS.
14. EXTEND PERIMETER WALLS AND FINISH TO STRUCTURE ABOVE AT EXPOSED STRUCTURE AREAS. PAINT ALL EXPOSED DUCTWORK, PIPING, HANGERS, ETC WITH PAINT AS SPECIFIED IN FINISH SPECIFICATIONS.
15. DESIGN SUSPENDED CEILING FRAMING SYSTEM TO RESIST LATERAL FORCE OF 20% OF THE WEIGHT OF THE CEILING ASSEMBLY AND ANY LOADS TRIBUTARY TO THE SYSTEM. USE A MINIMUM CEILING WEIGHT OF 5LBS/PSF TO DETERMINE LATERAL FORCE.
16. WHERE CEILING LOADS DO NOT EXCEED 5LBS/PSF AND WHERE PARTITIONS ARE NOT CONNECTED TO THE CEILING SYSTEM, THE FOLLOWING BRACING METHOD MAY BE USED:
    A. PROVIDE LATERAL SUPPORT BY FOUR WIRES MINIMUM NO.12 GAUGES SPLAYED IN FOUR DIRECTIONS 90 DEGREES APART, AND CONNECTED TO THE MAIN RUNNER WITHIN 2 " OF THE CROSS RUNNER AND TO THE STRUCTURE ABOVE AT AN ANGLE NOT EXCEEDING 45 DEG. FROM THE PLANE OF THE CEILING. PROVIDE THESE LATERAL SUPPORT POINTS 12 FEET ON CENTER IN EACH DIRECTION WITH THE FIRST POINT WITHIN 4' FROM EACH WALL.
    B. ALLOW LATERAL MOVEMENT OF THE SYSTEM. ATTACH MAIN RUNNERS AND CROSS RUNNERS AT TWO ADJACENT WALLS. MAINTAIN CLEARANCE BETWEEN THE WALL AND THE RUNNERS AT OPPOSITE WALLS.
17. PROVIDE VERTICAL SUPPORT AS REQUIRED BY BUILDING CODES. ADDITIONALLY, SUPPORT VERTICAL ENDS OF RUNNERS WITHIN 8 " OF EACH END.
18. SUPPORT LIGHT FIXTURES AND AIR DIFFUSERS DIRECTLY BY WIRES TO THE STRUCTURE ABOVE.
19. CEILING HEIGHTS TO BE AS NOTED ON PLANS
20. ALL GWB CEILINGS TO BE PAINTED FLAT FINISH UNO. SEE FINISH SCHEDULE AND SPECIFICATIONS FOR COLOR.
21. FINISH UNFINISHED HVAC DIFFUSERS AND SPEAKER GRILLES TO MATCH ADJACENT FINISH UNO.
22. SEE [FINISH SCHEDULE] [CEILING TYPE SCHEDULE] FOR CEILING TYPES & MATERIALS IN EACH ROOM / AREA.
23. ALL GYPSUM BOARD CEILINGS IN WET AREAS (E.G., TOILETS) SHALL BE MOISTURE RESISTANT GWB.
24. GENERAL CONTRACTOR SHALL SUBMIT LOCATION PLANS FOR ALL DEVICES LOCATED WITHIN CEILINGS, E.G., FIRE ALARM DEVICES, SECURITY DEVICES, SPRINKLER HEADS, AND ANY OTHER DEVICES NOT SHOWN.



PLAN NORTH — A1 / A-131

REFLECTED CEILING PLAN - ALTERNATE

NOT TO SCALE



PLAN NORTH — A6 / A-131

REFLECTED CEILING PLAN - BASE BID

NOT TO SCALE

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1300 Professional Drive, Suite 201
Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
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2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

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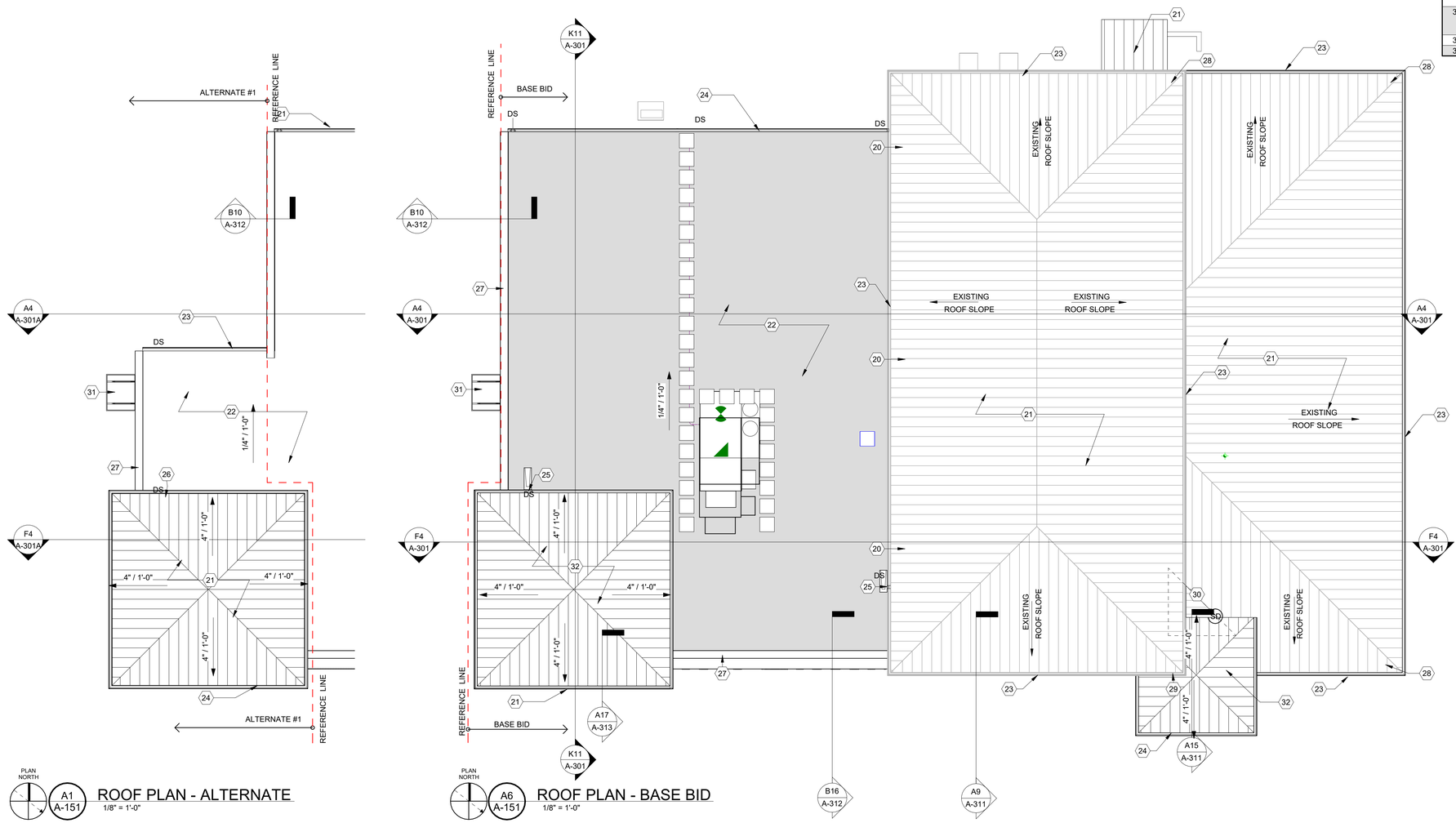
PROJECT NUMBER
2025-2006

DRAWN: CRF
CHECKED: CKH

SHEET TITLE
REFLECTED CEILING PLANS

SHEET NO.
A-131

THIS SHEET PLOTS ON 24"x36" ARCH D
0 1/2" 1" 2" 3"
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PLAN NORTH
A1 A-151
ROOF PLAN - ALTERNATE
1/8" = 1'-0"

PLAN NORTH
A6 A-151
ROOF PLAN - BASE BID
1/8" = 1'-0"

GENERAL ROOF NOTES:

1. SEE SPECIFICATIONS FOR MEMBRANE ROOFING SYSTEM.
2. SEE SPECIFICATIONS FOR STANDING SEAM METAL ROOFING SYSTEM.
3. QUANTITIES AND LOCATIONS OF ROOF TOP MECHANICAL EQUIPMENT ARE APPROXIMATE. GENERAL CONTRACTOR MUST COORDINATE EXACT ITEMS AND LOCATIONS FOR STRUCTURAL SUPPORT AND ROOF PENETRATIONS.
4. GENERAL CONTRACTOR TO PROVIDE POSITIVE DRAINAGE AROUND ALL ROOF TOP EQUIPMENT .
5. GENERAL CONTRACTOR TO PROVIDE POSITIVE DRAINAGE TO ALL SCUPPERS AND ROOF DRAINS AS SHOWN.
6. DO NOT ALLOW PLUMBING VENT STACKS OR EXHAUST FANS TO BE WITHIN 10' HORIZONTALLY OF ANY ROOF TOP UNIT FRESH AIR INTAKE.
7. ALL ROOF PENETRATIONS SHALL EXTEND A MINIMUM OF 8" ABOVE FINISHED ROOF TO TOP OF CURB OR VENT.
8. DO NOT ENCROACH ON CRICKET VALLEYS WITH PLUMBING VENTS, MECHANICAL OR ELECTRICAL PENETRATIONS.
9. PROVIDE ROOF MEMBRANE WALKPADS AT SERVICE SIDE OF ALL ROOF TOP UNITS AND AT ALL DOWNSPOUT LOCATIONS FROM ADJACENT HIGH ROOFS.

ARCHITECTURAL SHEET NOTES LEGEND

TAG #	TAG DESCRIPTION
20	INFILL EXISTING OPENINGS WITH 12" CMU BLOCK TO ALIGN WITH EXISTING
21	REPLACE EXISTING ASPHALT SHINGLE ROOF WITH NEW STANDING SEAM METAL ROOF. INSTALL AND FLASH PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
22	NEW TPO ROOF
23	REMOVE EXISTING GUTTERS. WRAP EXISTING WOOD FASCIA IN ALUMINUM. REMOVE EXISTING WOOD SOFFIT AND REPLACE WITH PERFORATED METAL SOFFIT.
24	NEW GUTTER AND DOWNSPOUTS
25	NEW DOWNSPOUT TO DISCHARGE ONTO SPLASHBLOCK ON ROOF
26	DISCHARGE UPPER DOWNSPOUT INTO LOWER GUTTER
27	NEW PREFINISHED METAL COPING
28	EXISTING DOWNSPOUT TO REMAIN OR REINSTALLED IN PLACE
29	RECONFIGURE EXISTING DOWNSPOUT TO DISCHARGE ONTO NEW ROOF BELOW
30	NEW CRICKET WITH STANDING SEAM METAL ROOFING OVERFRAMED OVER EXISTING ROOF. FLASH AND INSTALL PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS
31	NEW 4' X 5' METAL CANOPY
32	NEW STANDING SEAM METAL ROOF

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ISSUANCE

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2025-2006

DRAWN: CRF
CHECKED: CKH

SHEET TITLE
BASE BID - ROOF PLAN

SHEET NO.
A-151

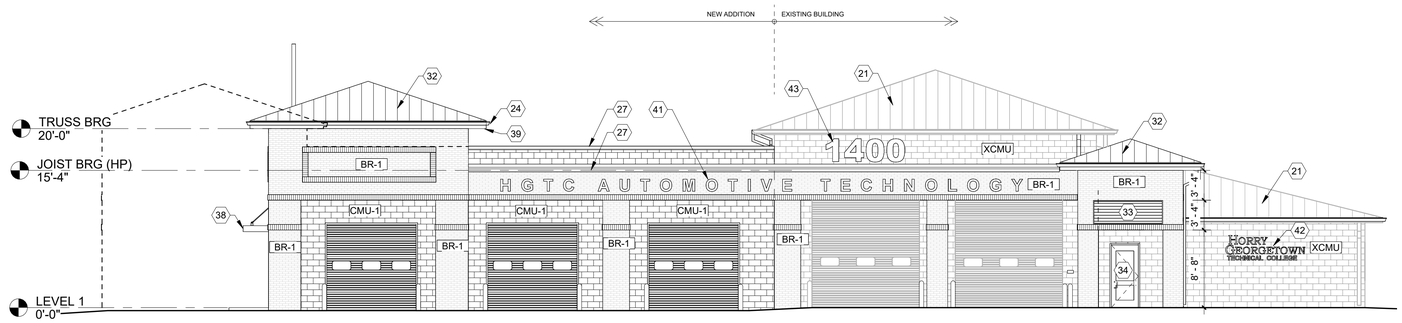
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TAG #	TAG DESCRIPTION
21	REPLACE EXISTING ASPHALT SHINGLE ROOF WITH NEW STANDING SEAM METAL ROOF. INSTALL AND FLASH PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
24	NEW GUTTER AND DOWNSPOUTS
25	NEW DOWNSPOUT TO DISCHARGE ONTO SPLASHBLOCK ON ROOF
27	NEW PREFINISHED METAL COPING
30	NEW CRICKET WITH STANDING SEAM METAL ROOFING OVERFRAMED OVER EXISTING ROOF. FLASH AND INSTALL PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS
32	NEW STANDING SEAM METAL ROOF

X	ARCHITECTURAL SHEET NOTES LEGEND
TAG #	TAG DESCRIPTION
33	NEW LOUVER WITH INSECT SCREEN, ALUMINUM
34	EXISTING DOWNSPOUT TO REMAIN
38	NEW 4' X 5' METAL CANOPY AT EXIT DOOR
39	NEW ALUM FASCIA
41	NEW 30" H. BRUSHED ALUMINUM SIGNAGE
42	REPLACE EXISTING SIGNAGE WITH BRUSHED ALUMINUM AND MOUNT 1'-4" HIGHER. PATCH AND REPAINT HOLES. FONTS TBD AND HEIGHT. LETTERING HEIGHTS TO MATCH EXISTING.
43	REPLACE EXISTING BUILDING NUMBERS IN BRUSHED ALUMINUM LETTERS. FONT AND SIZE TO BE IN KIND.

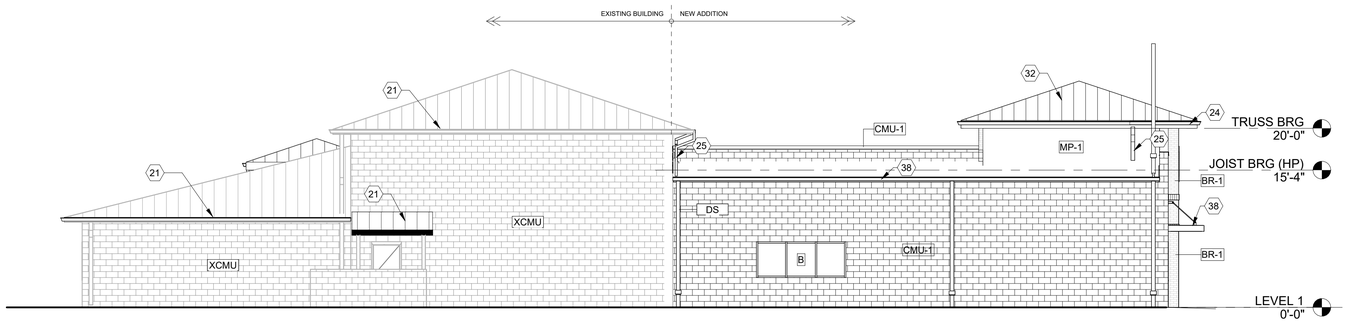
XXX1	EXTERIOR MATERIALS & FINISH SCHEDULE		
Material: Mark	DESCRIPTION	MFR.	COMMENTS
<varies>			
	Aluminum 6061		
BR-1	BR-1	PALMETTO BRICK	BRICK TYPE: LIGHT ROSE WIRECUT. GROUT TO BE PIGMENTED TO MATCH BRICK COLOR.
CMU-1	CONCRETE MASONRY UNITS		SMOOTH FACE, PRIMED AND PAINTED TO MATCH EXISTING
XCMU	EXISTING PAINTED CMU WALLS	N/A	EXISTING CMU, PTD, COLOR BY OWNER



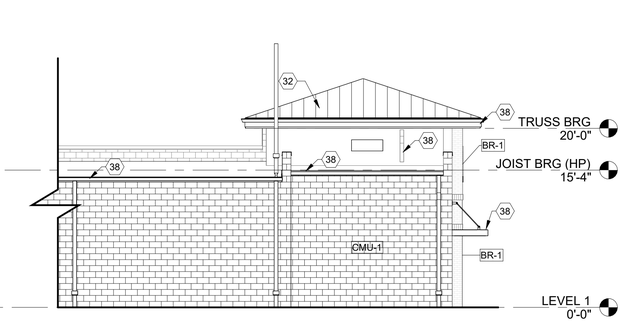
1 A-201 NORTH - ALTERNATE
1/8" = 1'-0"



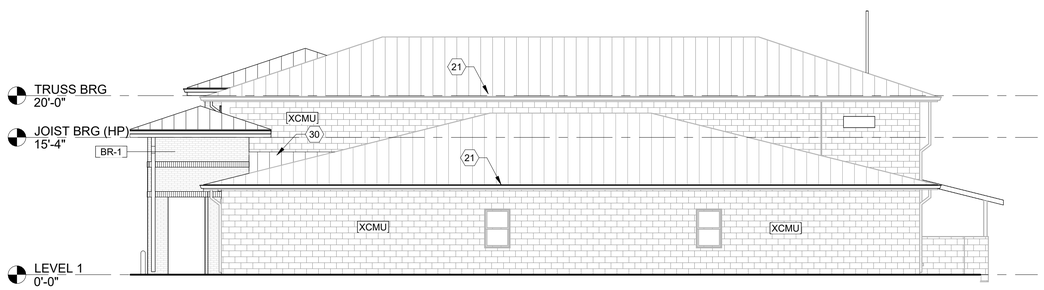
K2 A-201 NORTH - BASE BID
1/8" = 1'-0"



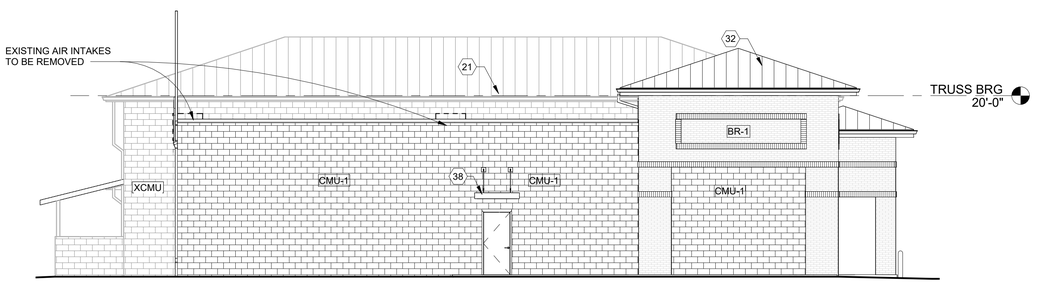
F2 A-201 SOUTH - BASE BID
1/8" = 1'-0"



2 A-201 SOUTH - ALTERNATE
1/8" = 1'-0"



A1 A-201 EAST - BASE BID
1/8" = 1'-0"



A10 A-201 WEST - BASE BID
1/8" = 1'-0"

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102094
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STATE OF SOUTH CAROLINA
GREGORY T. McFARLAND
MYRTLE BEACH, S.C.
5047
REGISTERED ARCHITECT

OWNER

HORRY GEORGETOWN TECHNICAL COLLEGE

2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

HORRY GEORGETOWN TECHNICAL COLLEGE

PROJECT NAME

HGTC AUTOMOTIVE TECHNOLOGY BLDG. 1400 EXPANSION

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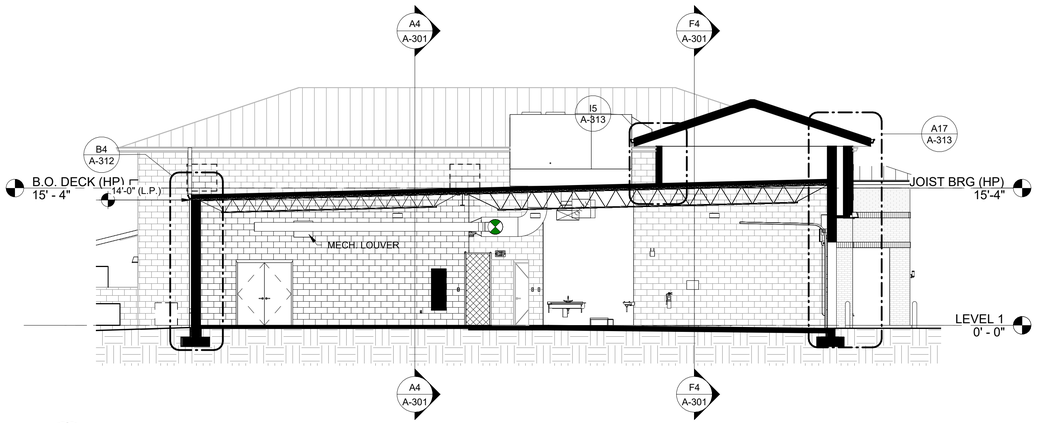
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SHEET TITLE
EXTERIOR ELEVATIONS

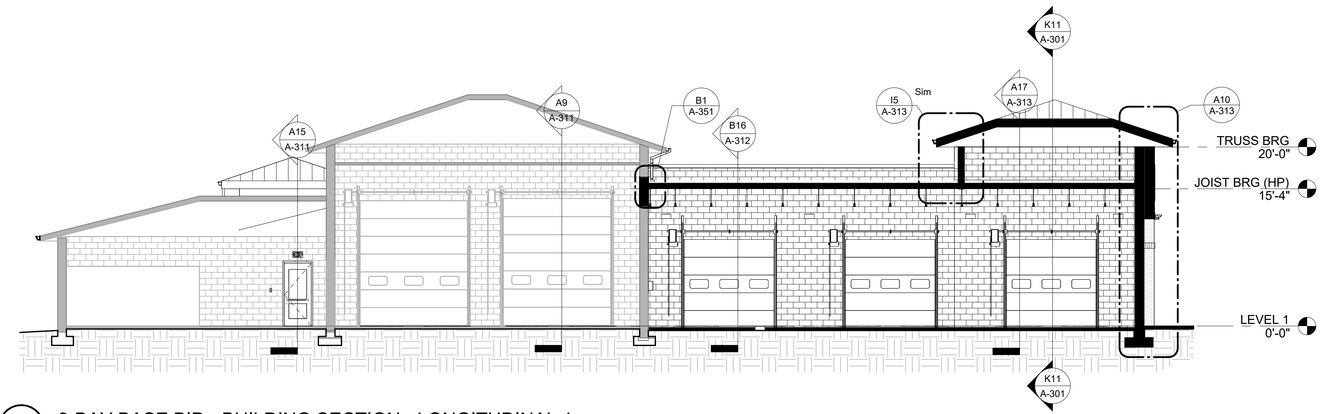
SHEET NO.
A-201

THIS SHEET PLOTS ON 24"x36" ARCH D
0 1/2" 1" 2" 3"
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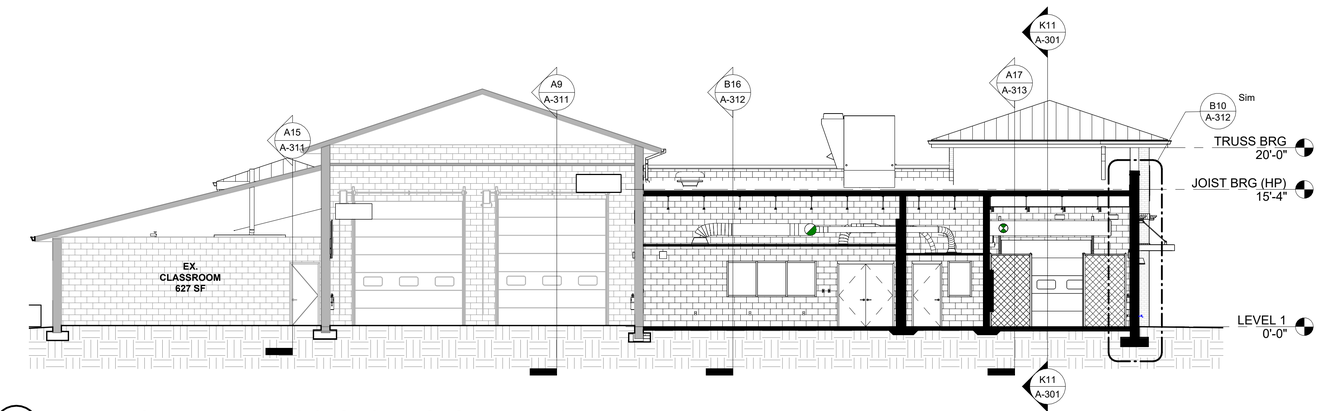
K11 / A-301 — 3-BAY BASE BID - BUILDING SECTION - TRANSVERSE 2

1/8" = 1'-0"



F4 / A-301 — 3-BAY BASE BID - BUILDING SECTION - LONGITUDINAL 1

1/8" = 1'-0"



A4 / A-301 — 3-BAY BASE BID - BUILDING SECTION - LONGITUDINAL 2

1/8" = 1'-0"

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0 1/2" 1" 2" 3"

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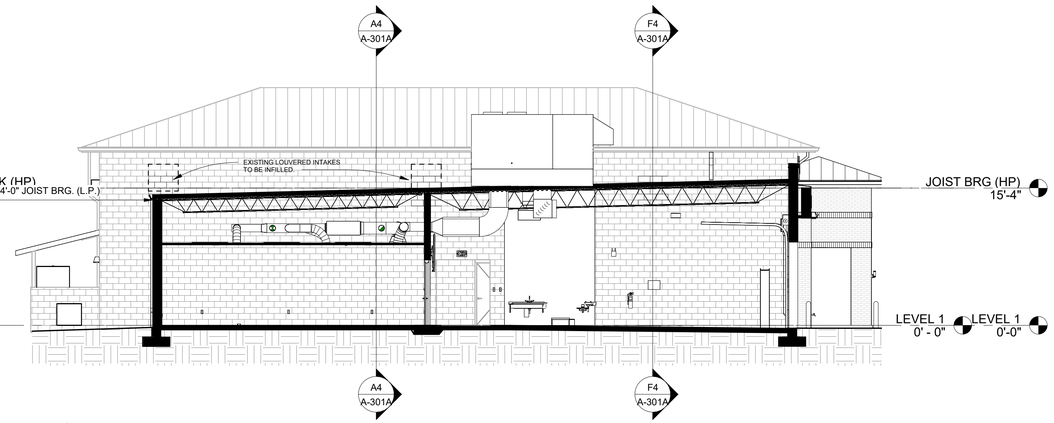
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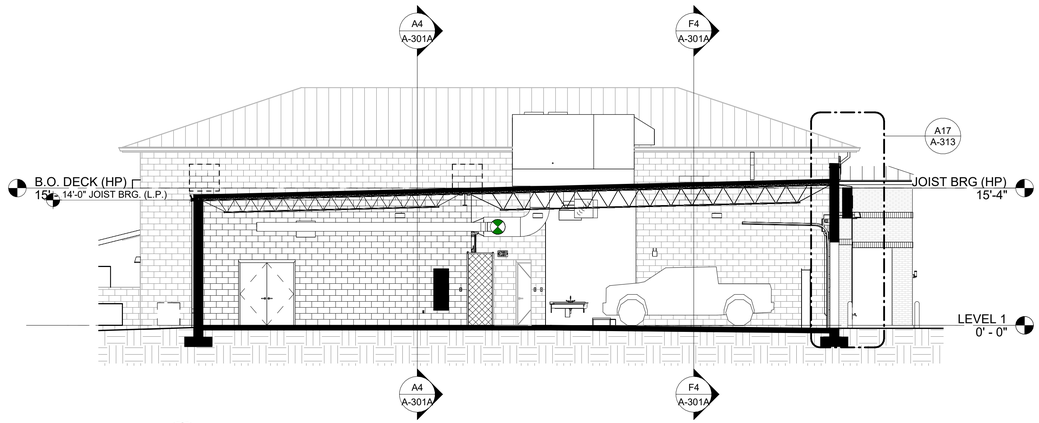
SHEET TITLE
BASE BID - BUILDING SECTIONS (3-BAY)

SHEET NO.
A-301



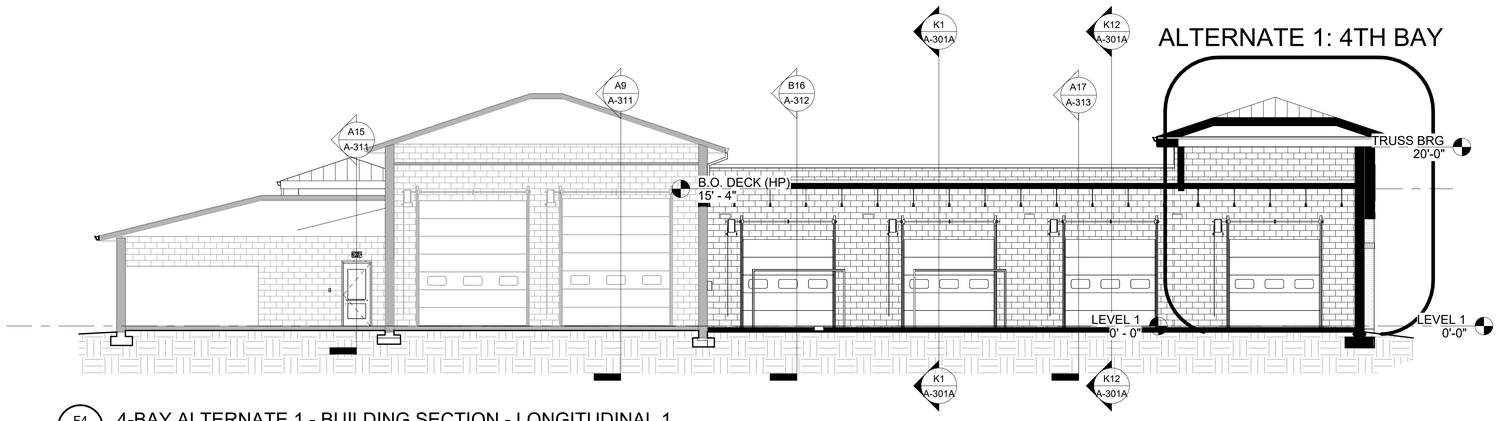
K1 A-301A — 4-BAY ALTERNATE 1 - BUILDING SECTION - TRANSVERSE 1

1/8" = 1'-0"



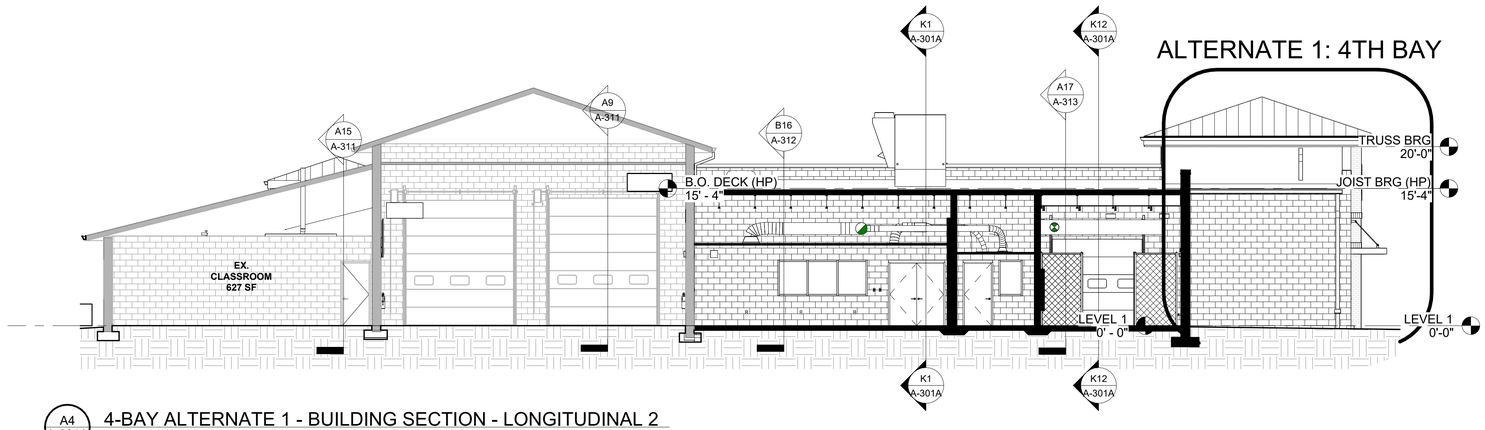
K12 A-301A — 4-BAY ALTERNATE 1 - BUILDING SECTION - TRANSVERSE 2

1/8" = 1'-0"



F4 A-301A — 4-BAY ALTERNATE 1 - BUILDING SECTION - LONGITUDINAL 1

1/8" = 1'-0"



A4 A-301A — 4-BAY ALTERNATE 1 - BUILDING SECTION - LONGITUDINAL 2

1/8" = 1'-0"

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0 1/2" 1" 2" 3"

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SHEET TITLE
ALTERNATE 1 - BUILDING SECTIONS (4TH BAY)

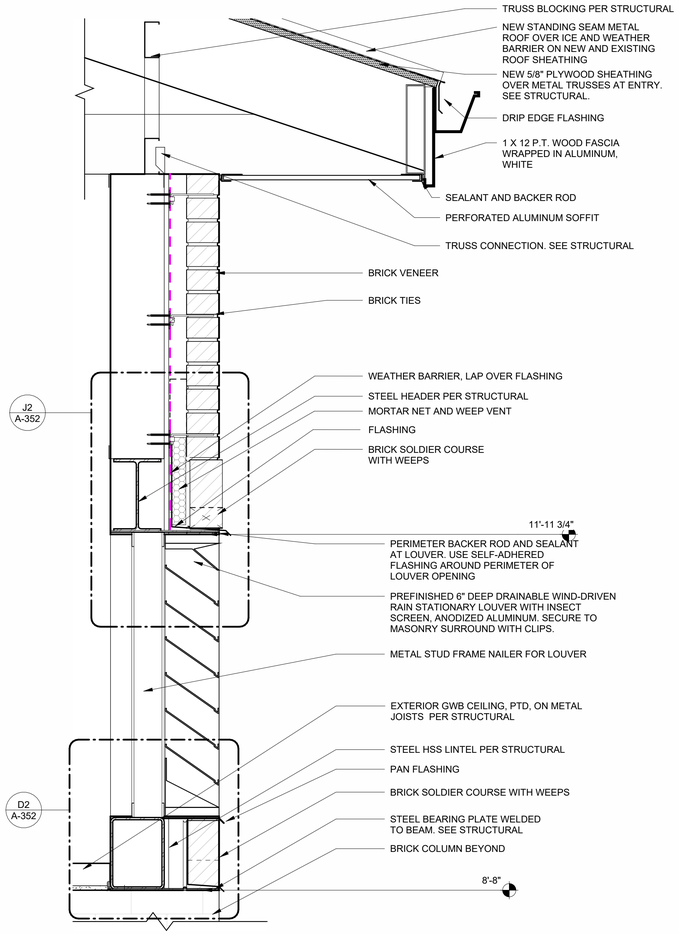
SHEET NO.
A-301A

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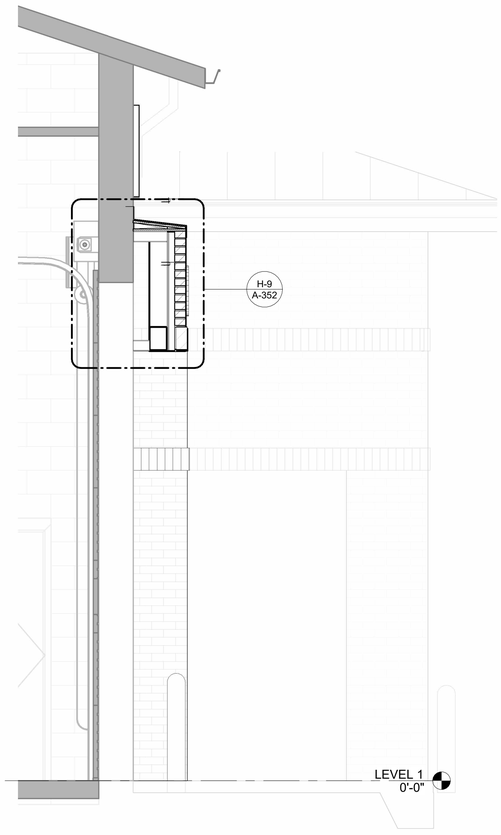
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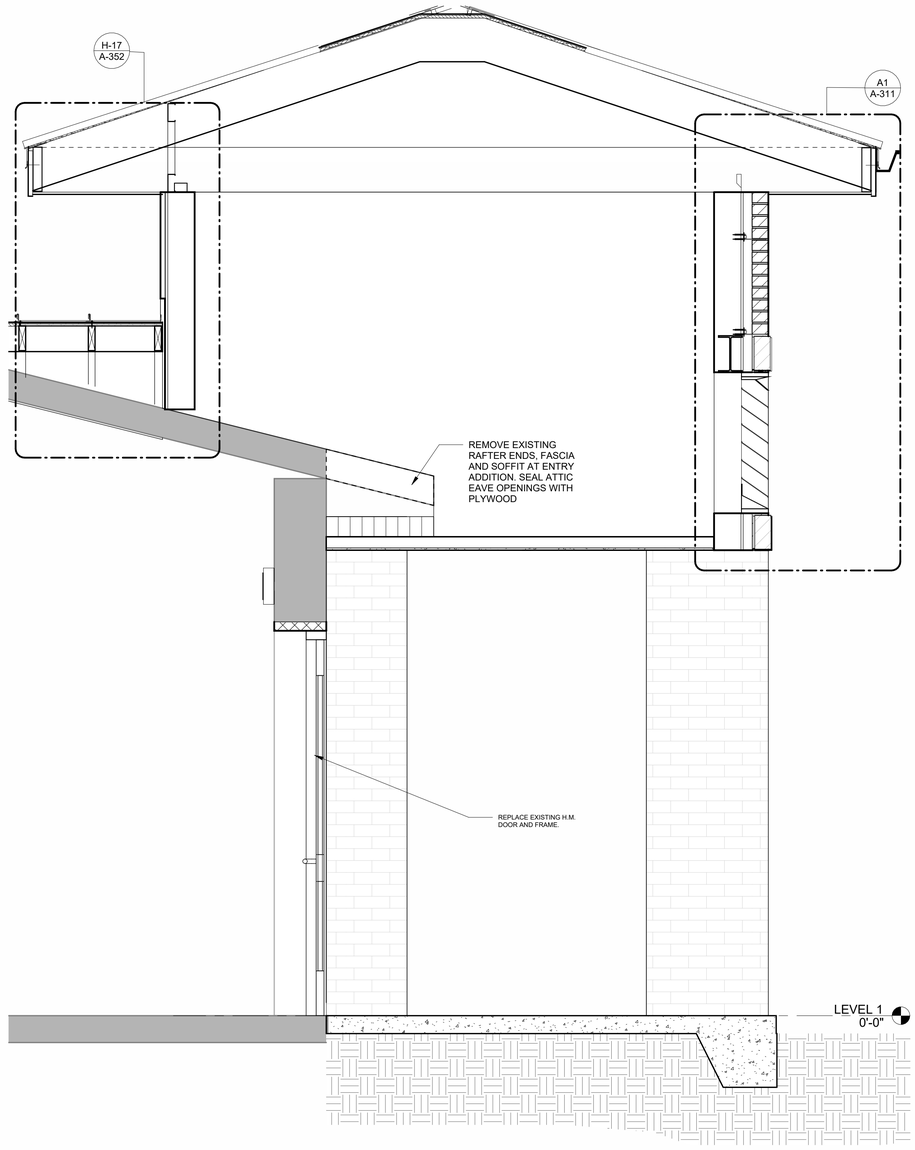
A1 A-311 SECTION DETAIL - ENTRY LOUVER

1 1/2" = 1'-0"



A9 A-311 WALL SECTION - CORNICE AT EXISTING BLDG

1/2" = 1'-0"



A15 A-311 WALL SECTION - ENTRY

3/4" = 1'-0"

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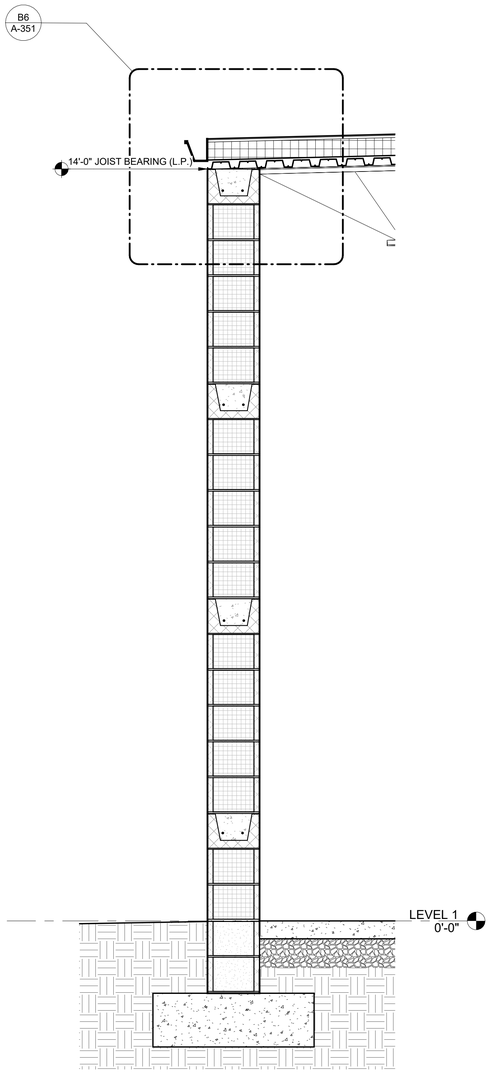
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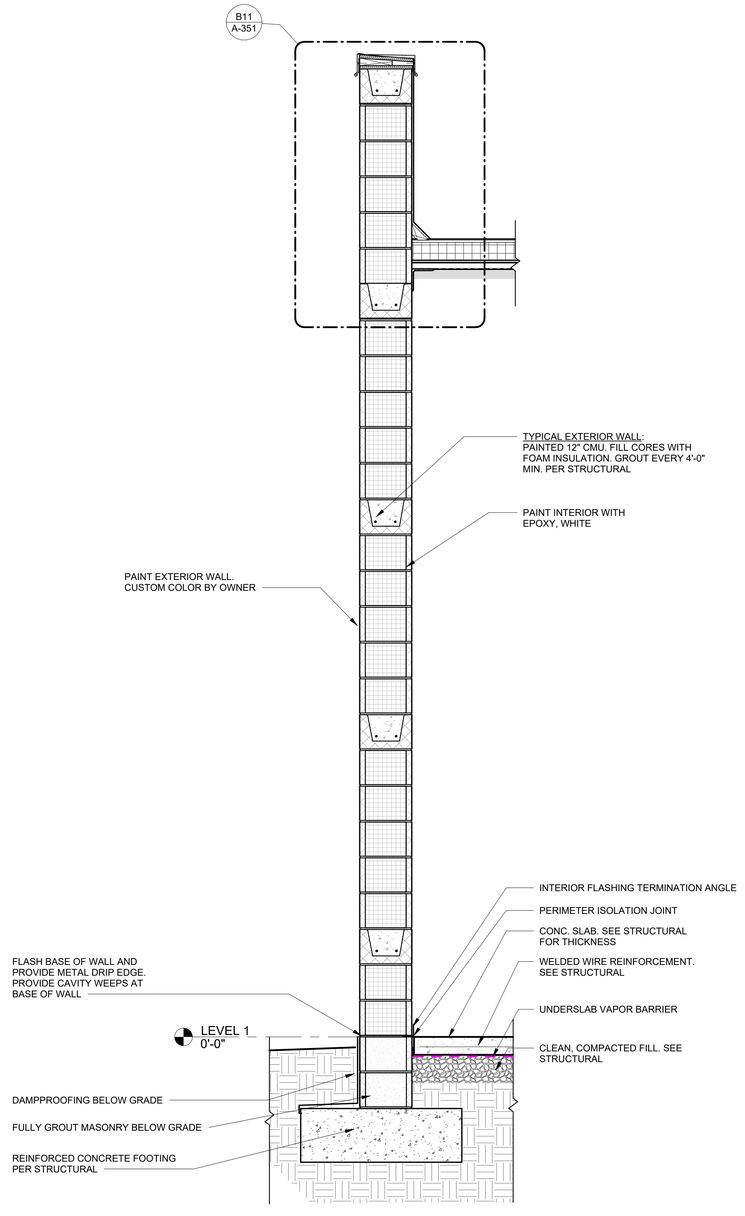
SHEET TITLE
WALL SECTIONS AND DETAILS

SHEET NO.
A-311

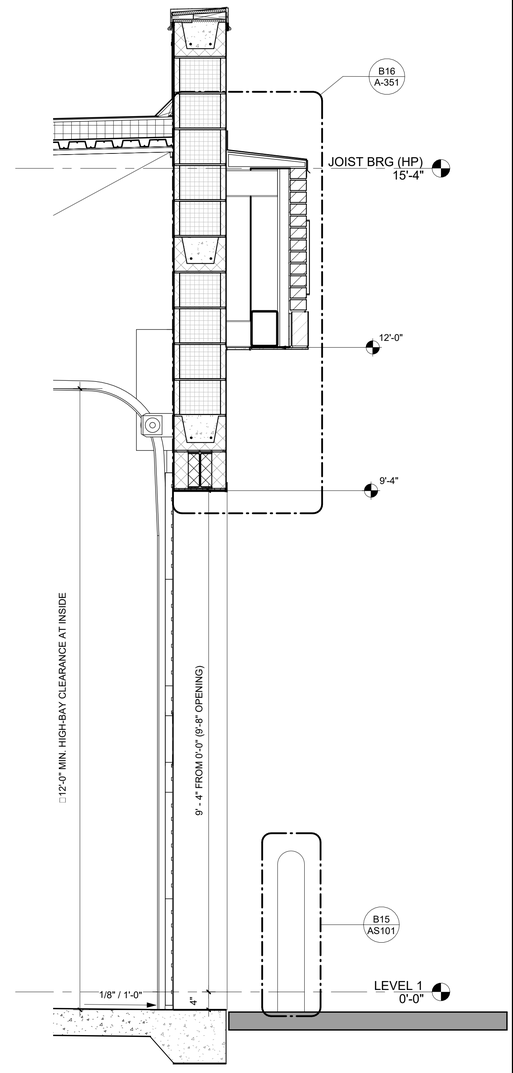
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B4 A-312 WALL SECTION - REAR
3/4" = 1'-0"



B10 A-312 TYP. WALL SECTION - TOWER
3/4" = 1'-0"



B16 A-312 TYP. WALL SECTION @ BAY DOOR
3/4" = 1'-0"

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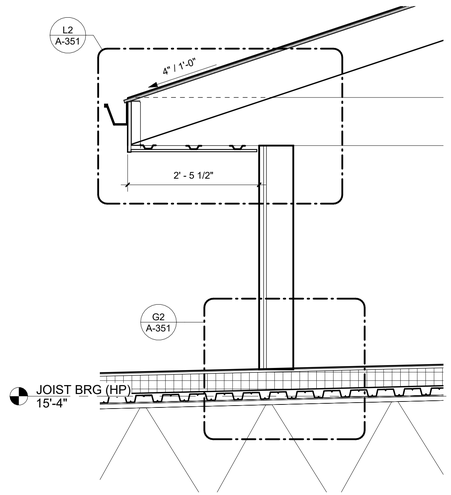
ISSUANCE

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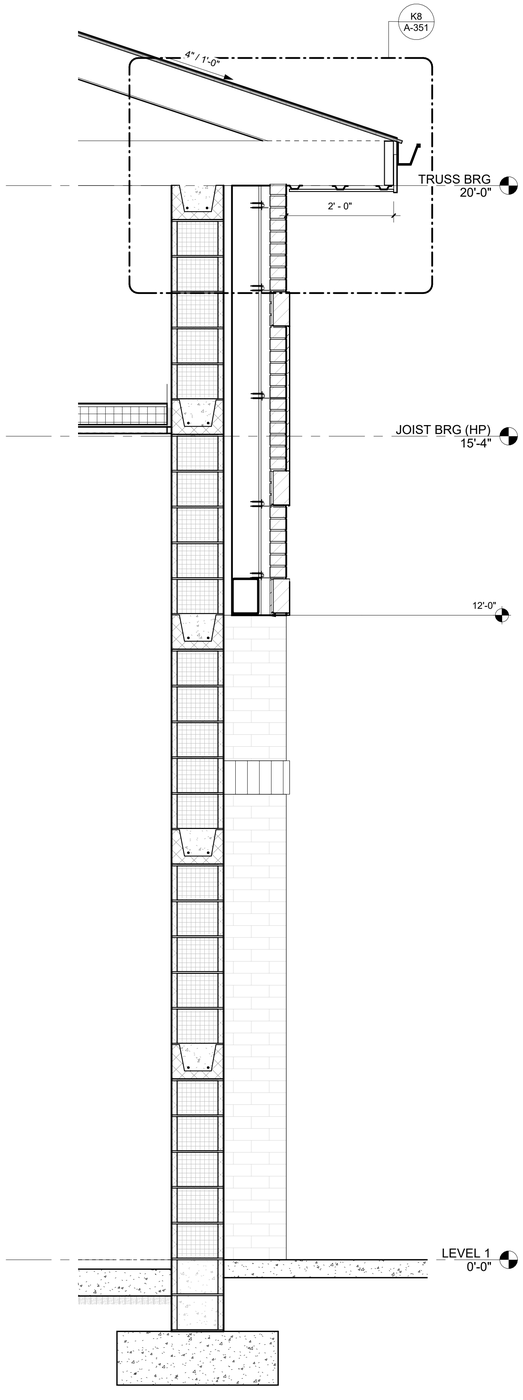
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SHEET TITLE
WALL SECTIONS AND DETAILS

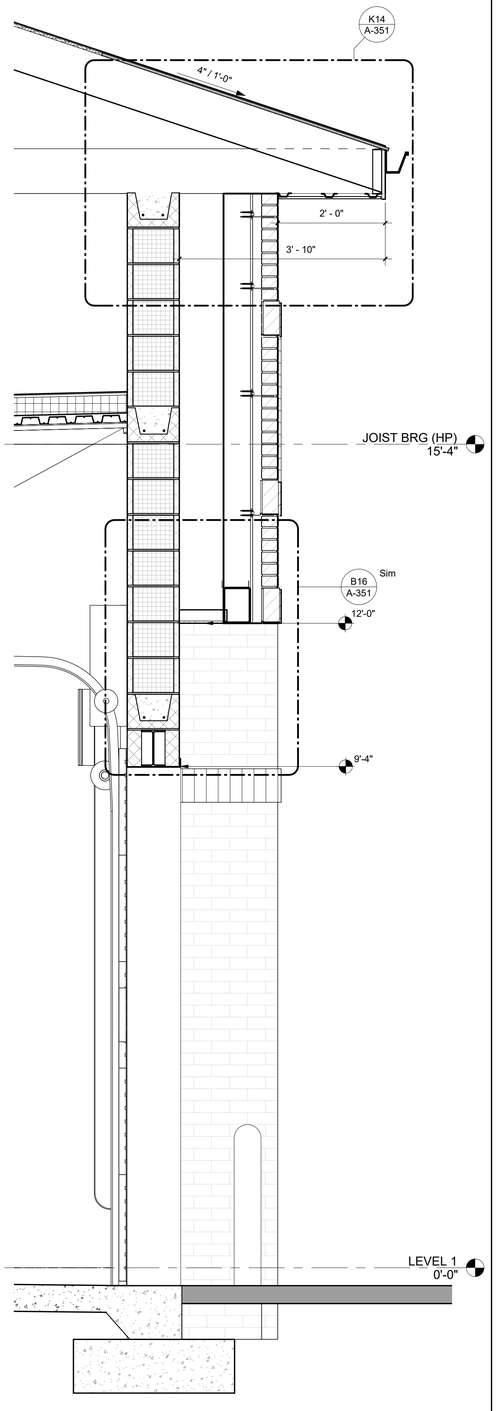
SHEET NO.
A-312



I5 A-313 WALL SECTION 4 - TOWER WALL
3/4" = 1'-0"



A10 A-313 WALL SECTION AT SIDE EAVE
3/4" = 1'-0"



A17 A-313 WALL SECTION - TOWER BAY DOOR
3/4" = 1'-0"

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0 1/2" 1" 2" 3"

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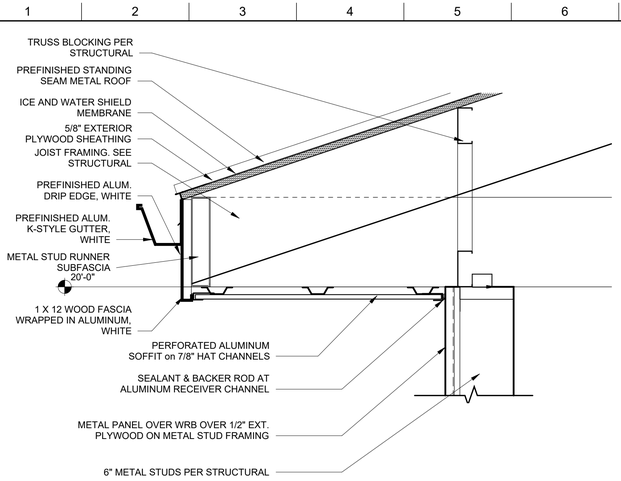
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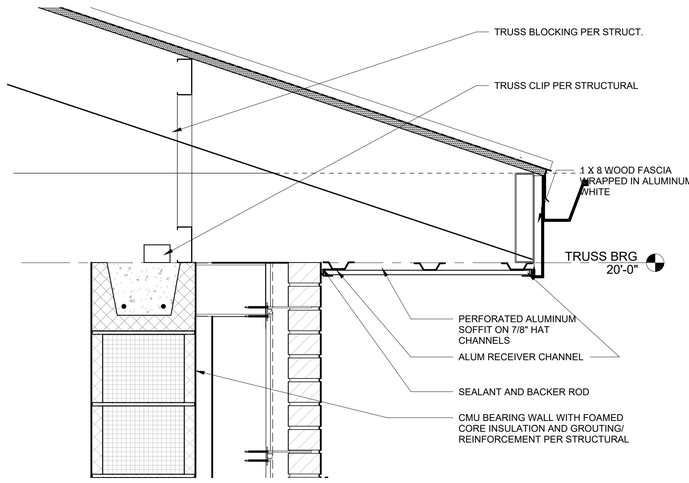
SHEET TITLE
WALL SECTIONS AND DETAILS

SHEET NO.
A-313

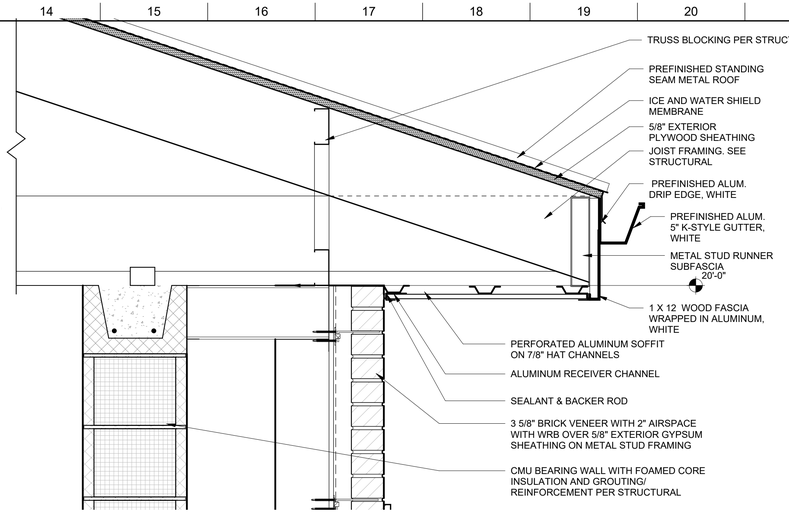
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3" 2" 1" 1/2" 0
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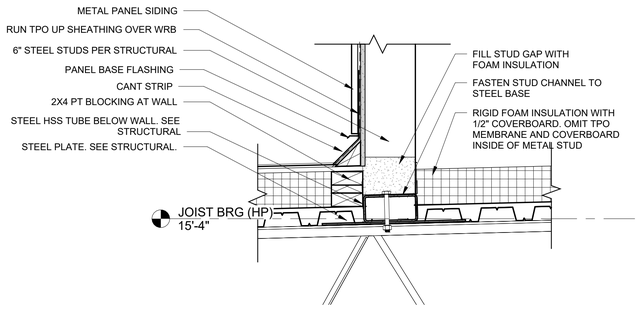
L2 A-351 SECTION DETAIL - TOWER EAVE REAR
1 1/2" = 1'-0"



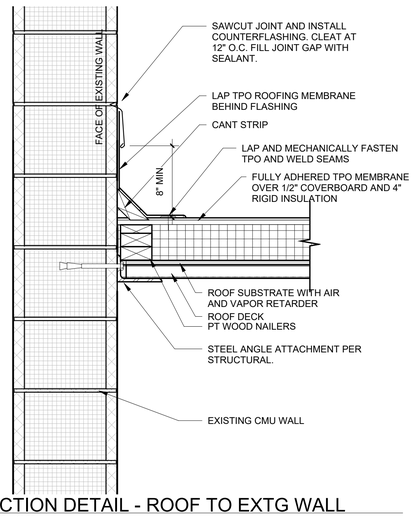
K8 A-351 SECTION DETAIL - SIDE EAVE
1 1/2" = 1'-0"



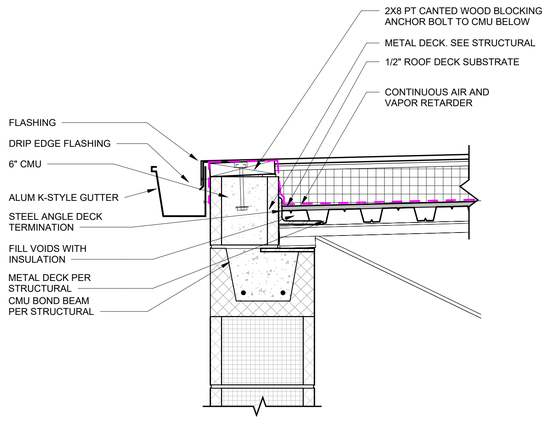
K14 A-351 SECTION DETAIL - TOWER EAVE
1 1/2" = 1'-0"



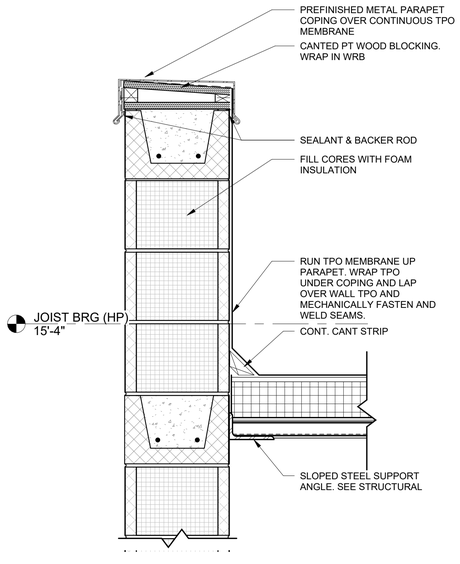
G2 A-351 SECTION DETAIL - TOWER WALL TO ROOF
1 1/2" = 1'-0"



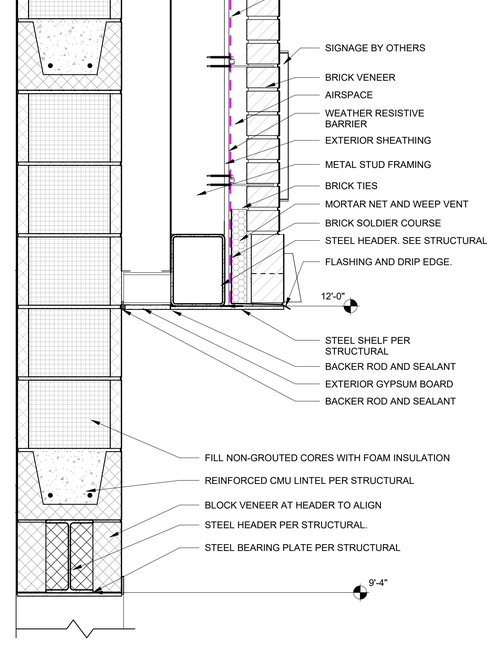
B1 A-351 SECTION DETAIL - ROOF TO EXTG WALL
1 1/2" = 1'-0"



B6 A-351 SECTION DETAIL - REAR ROOF EDGE
1 1/2" = 1'-0"



B11 A-351 SECTION DETAIL - PARAPET
1 1/2" = 1'-0"



B16 A-351 SECTION DETAIL - FRONT CORNICE
1 1/2" = 1'-0"

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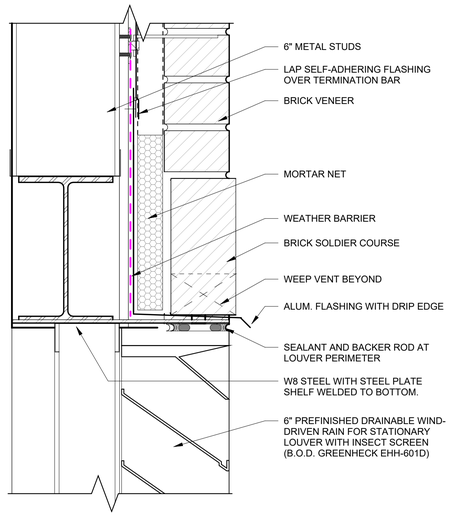
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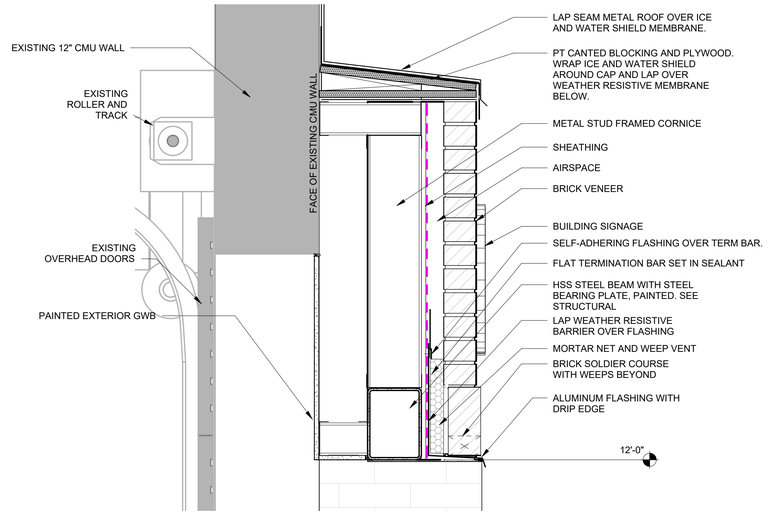
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SHEET TITLE
SECTION DETAILS

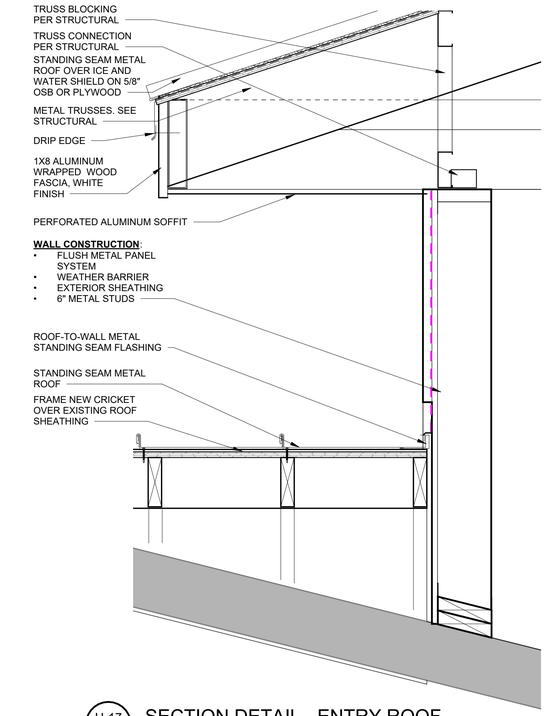
SHEET NO.
A-351



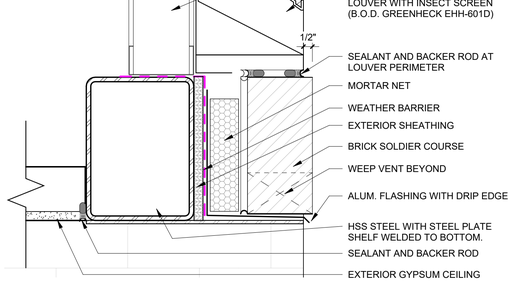
J2 / A-352 SECTION DETAIL - LOUVER HEAD
3" = 1'-0"



H-9 / A-352 SECTION DETAIL - CORNICE AT EXISTING
1 1/2" = 1'-0"



H-17 / A-352 SECTION DETAIL - ENTRY ROOF
1 1/2" = 1'-0"



D2 / A-352 SECTION DETAIL - LOUVER BASE
3" = 1'-0"

THIS SHEET PLOTS ON 24"x36" ARCH D

0 1/2" 1" 2" 3"

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PMH CROFT
ARCHITECTS & ENGINEERS
1300 Professional Drive, Suite 201
Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
www.pmhcroft.com

STATE OF SOUTH CAROLINA
Croft &Associates SC, LLC
MYRTLE BEACH, S.C.
102094
REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA
GREGORY T. McFARLAND
MYRTLE BEACH, S.C.
5047
REGISTERED ARCHITECT

OWNER

HORRY GEORGETOWN TECHNICAL COLLEGE
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

HORRY GEORGETOWN TECHNICAL COLLEGE

PROJECT NAME

HGTC AUTOMOTIVE TECHNOLOGY BLDG. 1400 EXPANSION

CONWAY,SC 29526

H59-N302-CB

No.	Date	Description
1	2025-09-24	BID DOCUMENTS
B	2025-08-04	CONSTRUCTION DOCUMENTS
A	2025-07-28	OWNER REVIEW

ISSUANCE

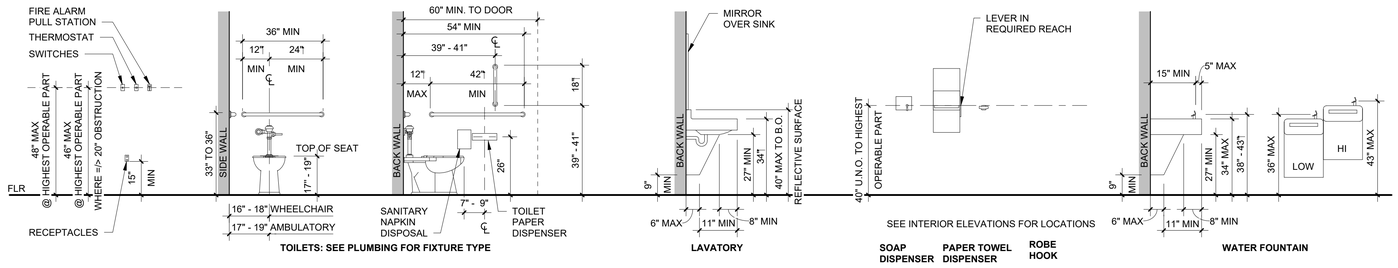
PROJECT NUMBER
2025-2006

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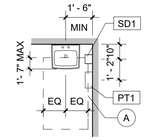
SHEET TITLE
SECTION DETAILS

SHEET NO.
A-352

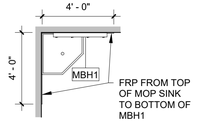
THIS SHEET PLOTS ON 24"x36" ARCH D
3" 2" 1" 1/2" 0



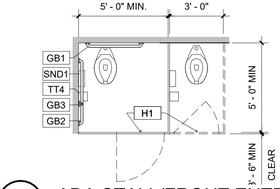
L1 / A-400 RESTROOM - ADA FIXTURE MOUNTING HEIGHTS
3/8" = 1'-0"



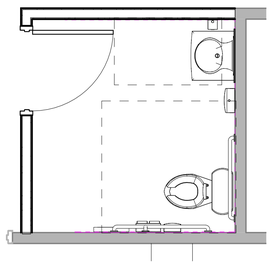
J1 / A-400 ADA WALL MOUNTED SINK
1/4" = 1'-0"



J4 / A-400 JANITOR'S SINK
1/4" = 1'-0"



J7 / A-400 ADA STALL/FRONT ENTRY
1/4" = 1'-0"

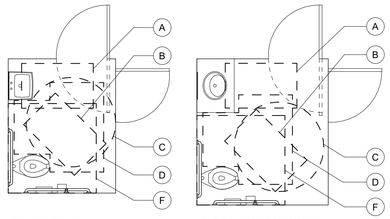


G1 / A-400 ENLARGED UNISEX TOILET RM PLAN
3/8" = 1'-0"

RESTROOM ACCESSORIES SCHEDULE

MARK	MFR	DESCRIPTION	MODEL #	REMARKS
GB1	BOBRICK	GRAB BAR - 36"	B-6806 SERIES	-
GB2	BOBRICK	GRAB BAR - 42"	B-6806 SERIES	-
GB3	BOBRICK	GRAB BAR - 18"	B-6806 SERIES	-
H1	BOBRICK	DOUBLE ROBE HOOK	B-6727	-
M1	BOBRICK	CHANNEL-FRAME MIRROR	B-165 24x36	-
PT1	BOBRICK	PAPER TOWEL DISPENSER	B-4262	-
PT2	BOBRICK	PAPER TOWEL/ WASTE RECEPTACLE	B-3944	-
SD1	BOBRICK	SOAP DISPENSER	B-2111	-
SND1	BOBRICK	SANITARY NAPKIN DISPOSAL	B-270	-
TT4	BOBRICK	TOILET TISSUE DISPENSER WITH SHELF	B-540	-

TOILET ACCESSORIES GENERAL NOTES:
A. BASIS OF DESIGN: AS SCHEDULED
B. ALL ACCESSORIES TO BE STAINLESS STEEL SATIN FINISH, UNO.
C. SEE ELEVATIONS FOR MOUNTING HEIGHTS.



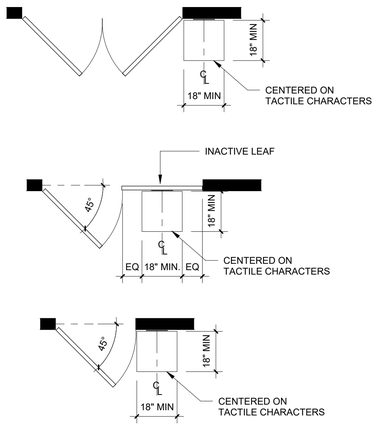
FLOOR MOUNTED WATER CLOSET

CLEAR FLOOR SPACE REQUIREMENTS

A	30" x 48" CLEAR FLOOR SPACE
B	30" x 48" ALTERNATE CLEAR FLOOR SPACE
C	60" DIAMETER
D	"T" SHAPED TURNING SPACE
E	56" x 60" AT WALL HUNG WATER CLOSET*
F	59" x 60" AT FLOOR MOUNTED WATER CLOSET*

ACCESSIBILITY NOTES:
1. GC TO PROVIDE FRT BLOCKING FOR ALL WALL MOUNTED FIXTURES AND ACCESSORIES.
2. "LAV GUARD" MODEL #102 BY "TRUEBRO" OR EQUAL TO BE USED AS PROTECTION/ INSULATION FOR EXPOSED PIPES.
3. A ROBE HOOK SHALL BE MOUNTED ON THE BACK SIDE OF ALL STALL DOORS & DOORS AT SINGLE USE RESTROOMS, UNLESS A COMBINATION HOOK/RUBBER STOP BUMPER IS PROVIDED AS PART OF THE TOILER STALL PARTITIONS.
4. FLUSH HANDLE TO BE ON OPEN SIDE OF WATER CLOSET.
5. INSIDE FACE OF GRAB BARS TO BE 1-1/2" FROM THE FACE OF PARTITION.

J11 / A-400 RESTROOM - CLEAR FLOOR SPACE
1/4" = 1'-0"

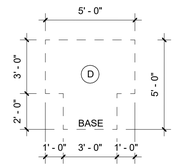


E10 / A-400 LOCATION OF TACTILE SIGNS @ DOORS
NOT TO SCALE

* **NOTE:** WHEN PARTITION DOES NOT MEET MINIMUM TOE CLEARANCE REQUIRED, CLEAR FLOOR SPACE SHALL BE

AT FRONT PARTITION:
- 62" DEEP WITH WALL HUNG WATER CLOSET
- 65" DEEP WITH FLOOR MOUNTED WATER CLOSET

AT SIDE PARTITION:
- 66" WIDE



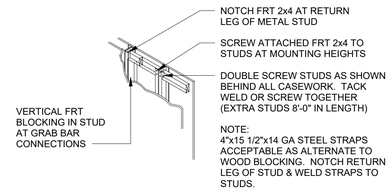
ADA RESTROOM SIGNAGE:



1/4" THICK SIGN
SIGN TO INCLUDE:
1. GENDER
2. INT'L ACCESSIBILITY SYMBOL
3. ROOM NAME
4. BRAILLE ROOM NAME

60" AFF MAX TO BASELINE OF HIGHEST CHARACTER
48" AFF MIN TO BASELINE OF HIGHEST CHARACTER
GRADE 2 BRAILLE

SIGNAGE NOTES:
1. ALL SIGNAGE BY GC, COORDINATE WITH ARCHITECT.
2. CHARACTERS/ SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND.
3. IDENTIFICATION SYMBOLS TO BE MOUNTED ON THE WALL ON LATCH SIDE OF DOOR AND SHALL BE DISTINCTLY DIFFERENT FROM THE DOOR IN COLOR AND CONTRAST.
4. PROVIDE ROOM IDENTIFICATION SIGN ON WALL TO LATCH SIDE OF DOOR.
5. LETTERS AND NUMBERS ON SIGNS SHALL BE RAISED 1/32" MIN, SHALL BE MIN 5/8" HIGH, AND SHALL BE SANS-SERIF UPPERCASE CHARACTERS.



B16 / A-400 BLOCKING DETAIL
NOT TO SCALE

PMH CROFT
ARCHITECTS & ENGINEERS
1300 Professional Drive, Suite 201
Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
www.pmhcroft.com

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STATE OF SOUTH CAROLINA — GREGORY T. McFARLAND — MYRTLE BEACH, S.C. — 5047 — REGISTERED ARCHITECT

OWNER
HORRY GEORGETOWN TECHNICAL COLLEGE
2050 HIGHWAY 501 EAST
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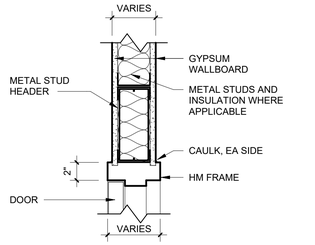
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SHEET TITLE
STANDARD RESTROOM DETAILS

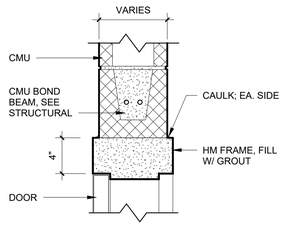
SHEET NO.
A-400

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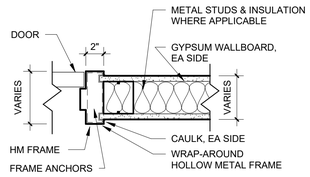
THIS SHEET PLOTS ON 24"x36" ARCH D
3" 2" 1" 1/2" 0
9/24/2025 5:17:33 PM Autodesk Docs://2025-2006 HGTC Automotive Technology/2025-2006 HGTC Automotive Tech_A25.rvt
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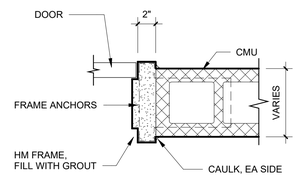
M2 A-601 HEAD DETAIL
1 1/2" = 1'-0"



M5 A-601 HEAD DETAIL
1 1/2" = 1'-0"



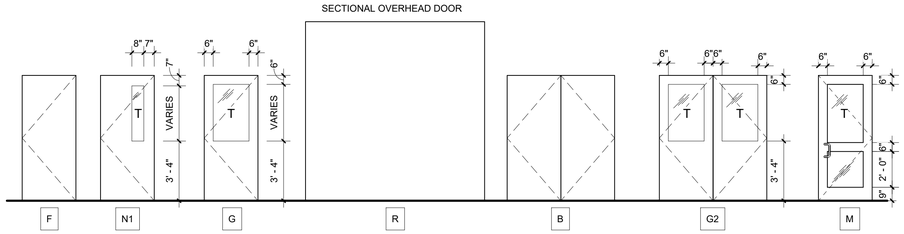
J2 A-601 JAMB DETAIL
1 1/2" = 1'-0"



J5 A-601 JAMB DETAIL
1 1/2" = 1'-0"

DOOR AND FRAME SCHEDULE

DOOR NUMBER	DOOR PANEL(S)							DOOR FRAME							
			SIZE								DETAIL #				
	TYPE	# OF PANEL(S)	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	SILL	GLAZING	REMARKS
100	M	1	3'-0"	7'-0"	1 3/4"	ALUM	CL ANOD	--	ALUM	CL ANOD	--	--	--	TEMP.	
120	G	1	3'-0"	7'-0"	1 3/4"	HM	PAINT	HM2	HM	PAINT	--	--	--	SAFETY	
121A	F	1	3'-0"	7'-0"	1 3/4"	HM	PAINT	HM2	HM	PAINT	--	--	--	--	
121B	R	1	10'-0"	10'-0"	2"						--	--	--	SEE SPEC.	ROLL-UP DOOR; SEE SPEC.
121C	R	1	10'-0"	10'-0"	2"						--	--	--	SEE SPEC.	ROLL-UP DOOR; SEE SPEC.
121D	R	1	10'-0"	10'-0"	2"						--	--	--	SEE SPEC.	ROLL-UP DOOR; SEE SPEC.
122	B	2	3'-0"	7'-0"	1 3/4"	HM	PAINT	HM2	HM	PAINT	--	--	--	--	
124	G2	2	3'-0"	7'-0"	1 3/4"	HM	PAINT	HM2	HM	PAINT	--	--	--	SAFETY	
131	F	1	3'-0"	7'-0"	1 3/4"	WD	CLR	HM1	HM	PAINT	--	--	--	--	STAIN AND SEAL TO MATCH EXISTING WOOD TOILET ROOM DOORS
134	F	1	3'-0"	7'-0"	1 3/4"	ETR	ETR	HM2	HM	PAINT	--	--	--	--	EXISTING RATED DOOR; RETROFIT WITH NEW HARDWARE & EXIT DEVICES; SEE SPEC.
Grand total: 10															



J8 A-601 DOOR PANEL TYPES
1/4" = 1'-0"

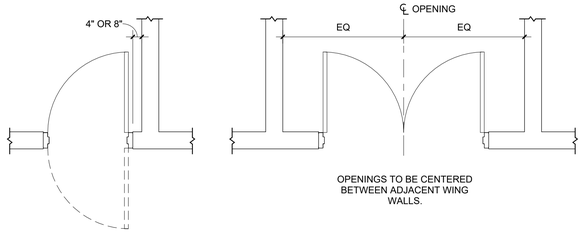
GENERAL DOOR NOTES:

1. ALL DOOR HARDWARE TO BE HANDICAP ACCESSIBLE.
2. PROTECTION PLATE: SEE SPECIFICATIONS FOR KICK PLATES, MOP PLATES, AND ARMOR PLATES. LOCATE PER HARDWARE SETS.
3. SEE HARDWARE SPECIFICATION FOR DOOR CLOSER LOCATIONS.
4. ALL LOCKING EXIT DOORS ARE TO HAVE EXIT DEVICES (PANIC HARDWARE), MUST NOT BE UNLOCKED BY KEY FROM THE INSIDE OF THE BUILDING, AND MUST SWING IN THE DIRECTION OF EGRESS.
5. EXTERIOR HM DOORS AND FRAMES TO BE GALVANIZED WITH TOP AND BOTTOM EDGES CLOSED FLUSH.
6. GENERAL CONTRACTOR TO ENSURE THAT EXTERIOR DOOR GLAZING MATCHES ALL OTHER EXTERIOR GLAZING IN PROJECT.
7. VISION PANELS IN HM DOORS SHALL HAVE FRAMES AND STOPS MATCHING DOOR MATERIAL AND FINISH. PROVIDE FIRE RATED GLASS AT ALL RATED LOCATIONS, TEMPERED IN ALL OTHER LOCATIONS. PROVIDE 1" INSULATED GLAZING AT EXTERIOR LOCATIONS. PROVIDE DOUBLE GLAZING FOR SOUND CONTROL IN WALLS WITH SAB.]
8. AT ALL GYPSUM WALLBOARD PARTITIONS/WALLS, LOCATE HINGE SIDE OF DOOR FRAMES 4" FROM ADJACENT WALL TO SIDE OF FRAME.
9. AT ALL CMU PARTITIONS/WALLS, LOCATE HINGE SIDE OF DOOR FRAMES 8" FROM ADJACENT WALL TO SIDE OF FRAME, UNO.
10. DETAILS REPRESENT TYPICAL CONDITONS. SEE FLOOR PLANS FOR PARTITION TYPES AND DOOR SWINGS, AND SPECIFICATIONS FOR HARDWARE REQUIREMENTS.
11. THRESHOLDS SHALL BE AS SPECIFIED IN THE HARDWARE SCHEDULE AND DETAILED. EXPOSED EDGES OF FLOORING MATERIAL WILL NOT BE ACCEPTED.
12. ALL HOLLOW METAL FRAMES IN NEW CMU WALLS TO BE FULLY WELDED AND KNOCK-DOWN TYPE IN REPLACEMENT DOORS AND STUD PARTITIONS.

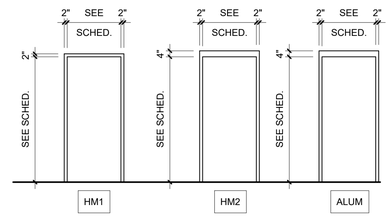
TYPICAL OPENING POSITION:
HINGE JAMB FRAME SET 4" FROM FACE OF WING WALL. UNLESS DIMENSIONALLY NOTED OTHERWISE OR CENTERED BETWEEN WING WALLS.

FOR CONCRETE AND CMU HINGE JAMB SET 8" FROM FACE OF WING WALL. UNLESS DIMENSIONALLY NOTED OTHERWISE OR CENTERED BETWEEN WING WALLS.

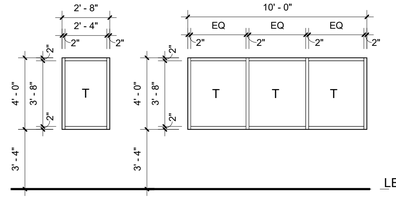
SEE NOTE 12 ON A-601



F3 A-601 DIAGRAMMATIC LAYOUTS FOR DOOR OPENINGS
NOT TO SCALE



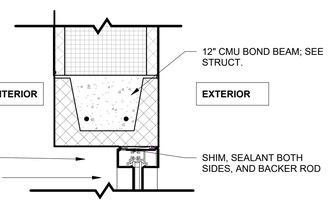
J14 A-601 DOOR FRAME TYPES
1/4" = 1'-0"

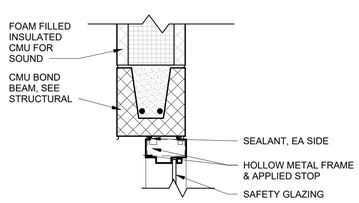


F12 A-601 WINDOW ELEVATIONS
NOT TO SCALE

GENERAL WINDOW NOTES:

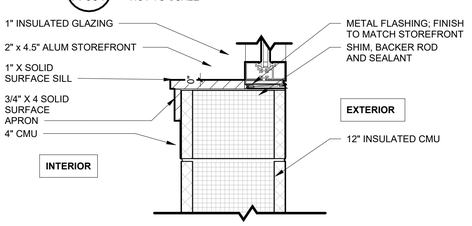
1. FIELD VERIFY ALL WINDOW DIMENSIONS.
2. 'S' DENOTES SAFETY GLASS
3. 'T' DENOTES TEMPERED GLASS
4. FINISH OF ALL ALUMINUM FRAMES TO BE [CLEAR ANODIZED.]
5. ALL EXTERIOR GLAZING TO BE 1" INSULATED GLASS
6. ALL INTERIOR GLAZING TO BE 1/4" GLAZING

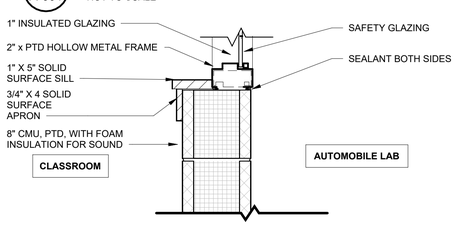




D1 A-601 SF HEAD DETAIL
NOT TO SCALE

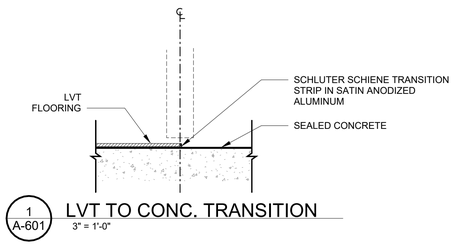
D5 A-601 HM HEAD DETAIL
NOT TO SCALE





A1 A-601 SF SILL DETAIL
NOT TO SCALE

D6 A-601 HM SILL DETAIL
NOT TO SCALE



1 A-601 LVT TO CONC. TRANSITION
3" = 1'-0"

ROOM FINISH SCHEDULE

ROOM NAME	FLOOR MATERIAL	FLOOR FINISH	BASE MATERIAL	BASE FINISH	WALL MATERIAL	WALL FINISH	CEILING MATERIAL	CEILING FINISH	REMARKS
EX. BREAK ROOM	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	
I.T. / ELEC.	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	
EX. CLASSROOM	LVT	LVT-1	RUBBER	RB-1	ETR	ETR	ETR	ETR	
EX. OFFICE	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	
EX. STOR/MECH	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	
EX. RR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	
EXISTING MENS	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	
COVERED PORCH									DO NOT SCHEDULE
PROPOSED ENTRYWAY									DO NOT SCHEDULE
AUTOMOTIVE LAB	EPOXY	P-6	--	--	PAINT	P-5	EXPOSED STRUCTURE-PAINTED	P-4	
EXISTING AUTOMOTIVE LAB	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	SPOT PRIME AND PAINT TO MATCH EXISTING
OFFICE	LVT	LVT-1	RUBBER	RB-1	PAINT	P-5	ACT	ACT	
MECH / COMPRESSOR	EPOXY	P-6	--	--	PAINT	P-5	EXPOSED STRUCTURE-PAINTED	P-4	
STORAGE / TOOLCRIB	EPOXY	P-6	RUBBER	RB-1	PAINT	P-5	EXPOSED STRUCTURE-PAINTED	P-4	
UNISEX	PAINT	EPOXY	RUBBER	RB-1	PAINT	P-7	PAINT	P-7	NEW EPOXY AS REQUIRED BY RENOVATION WORK
HALL	EPOXY	ETR	RUBBER	RB-1	PAINT	P-X	PAINT	P-7	PATCH AND REPAIR EXISTING AND NEW FINISHES AS NECESSARY
STORAGE	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	PATCH AND REPAIR EXISTING AND NEW FINISHES AS NECESSARY
CLASSROOM	LVT	LVT-1	RUBBER	RB-1	PAINT	P-5	ACT	ACT	

PMH CROFT
ARCHITECTS & ENGINEERS
1300 Professional Drive, Suite 201
Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
www.pmhcroft.com

STATE OF SOUTH CAROLINA
Croft &Associates SC, LLC
MYRTLE BEACH, S.C.
102094
REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA
GREGORY T. McFARLAND
MYRTLE BEACH, S.C.
5047
REGISTERED ARCHITECT

OWNER

HORRY GEORGETOWN TECHNICAL COLLEGE
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

HORRY GEORGETOWN TECHNICAL COLLEGE

PROJECT NAME

HGTC AUTOMOTIVE TECHNOLOGY BLDG. 1400 EXPANSION

CONWAY,SC 29526

H59-N302-CB

No.	Date	Description
1	2025-09-24	BID DOCUMENTS
B	2025-08-04	CONSTRUCTION DOCUMENTS
A	2025-07-28	OWNER REVIEW

ISSUANCE

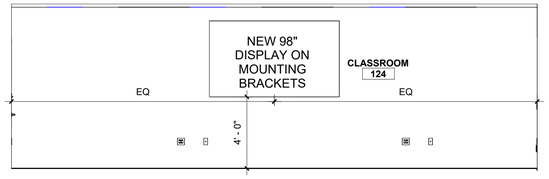
PROJECT NUMBER
2025-2006

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CHECKED: CKH

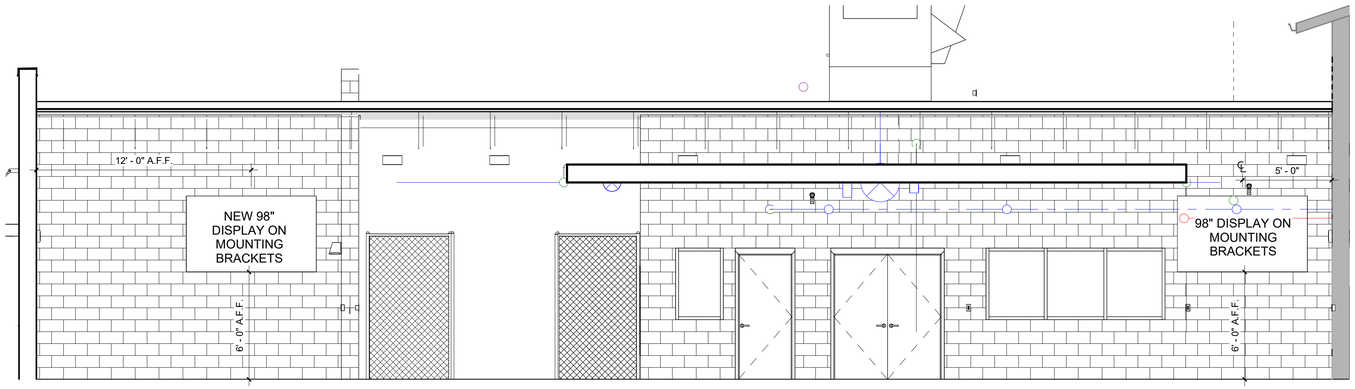
SHEET TITLE
DOOR, WINDOW AND FINISH SCHEDULES

SHEET NO.
A-601

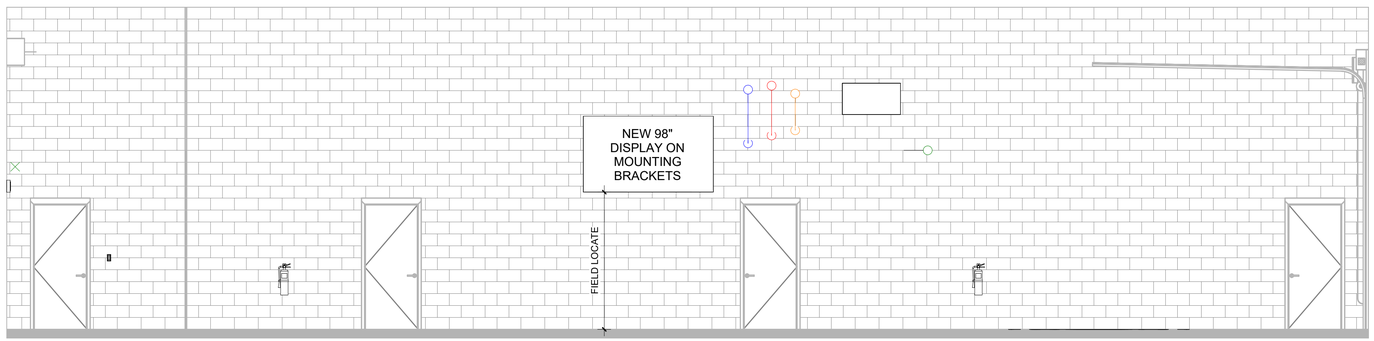
THIS SHEET PLOTS ON 24"x36" ARCH D
0 1/2" 1" 2" 3"



1 A-701 CLASSROOM INTERIOR ELEVATION WEST
1/4" = 1'-0"



2 A-701 INTERIOR ELEVATION - NEW AUTO LAB
1/4" = 1'-0"



3 A-701 INTERIOR ELEVATION - EXTG. AUTO LAB
1/4" = 1'-0"

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PMH CROFT
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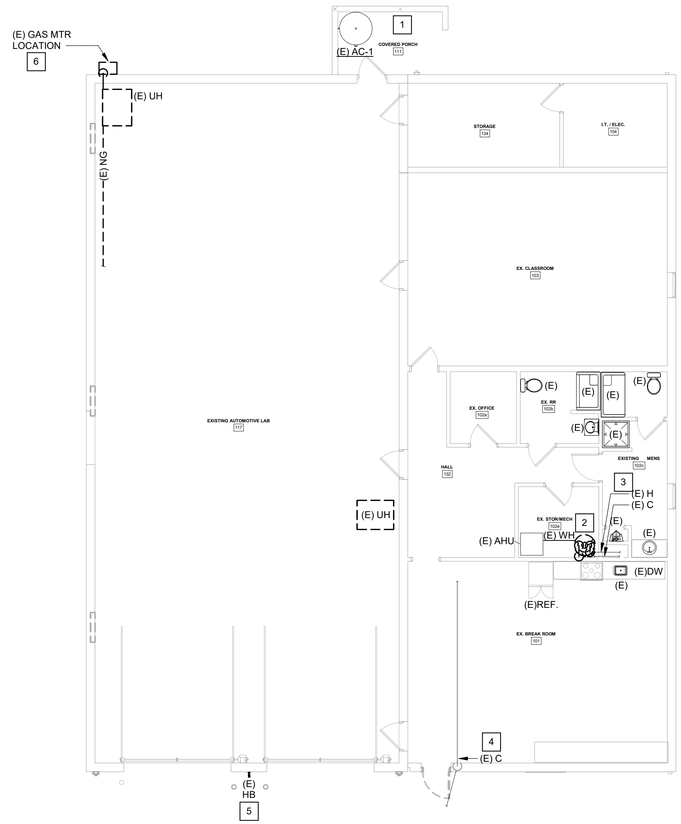
PROJECT NUMBER
2025-2006

DRAWN: CRF
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SHEET TITLE
INTERIOR ELEVATIONS

SHEET NO.
A-701

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0 1/2" 1" 2" 3"
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1 PD-101 BASE BID - LEVEL 1 - PLUMBING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

DEMOLITION KEYNOTES

1. EXISTING AIR COMPRESSOR COMPRESSED AIR LINES TO REMAIN.
2. DEMOLISH EXISTING WATER HEATER AND RETURN EQUIPMENT TO THE COLLEGE. NEW WATER HEATER TO BE INSTALLED IN SAME LOCATION AND EXISTING DOMESTIC PIPING TO BE RECONNECTED TO NEW HOT WATER DISTRIBUTION.
3. EXISTING DOMESTIC COLD WATER SUPPLYING WATER HEATER SHALL BE CAPPED AND ABANDONED AT WALL. EXISTING HOT WATER PIPING TO REMAIN FOR CONNECTION TO NEW HOT WATER DISTRIBUTION LINE FED OFF OF NEW WATER HEATER.
4. APPROXIMATE LOCATION OF EXISTING DOMESTIC WATER SERVICE. FIELD VERIFY LOCATION AND ROUTING. EXISTING WATER SERVICE TO REMAIN OPERATIONAL UP UNTIL NEW WATER SERVICE IS FULLY INSTALLED AND READY TO SUPPLY EXISTING FIXTURES.
5. EXISTING HOSE BIB TO BE DEMOLISHED. NEW HOSE BIB TO REINSTALLED ON NEW EXTERIOR FACING AND EXISTING WATER LINE EXTENDED.
6. EXISTING GAS METER TO BE DEMOLISHED, COORDINATE WITH UTILITY. REFER TO CIVIL PLANS REGARDING SCOPE / CONTINUATION OF EXISTING GAS LINE. EXISTING GAS LINE SERVING HEATERS SHALL BE DEMOLISHED AND REPLACED WITH NEW.

GENERAL NOTES

GRAPHIC SCALE
0 4' 8' 16' 32'
Scale: 1/8" = 1'-0"
N

PMH CROFT
ARCHITECTS & ENGINEERS
1300 Professional Drive, Suite 201
Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
www.pmhcroft.com

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION DWG, INC. CONSULTING ENGINEERS No.C03649

SOUTH CAROLINA WILLIAM DEAN BILLARD 09/24/2025

DWG CONSULTING ENGINEERS EMPLOYEE OWNED
1009 Anna Knapp Blvd., Suite 200
Mt. Pleasant, SC 29464
843-849-1141

OWNER

HORRY GEORGETOWN TECHNICAL COLLEGE
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

HORRY GEORGETOWN TECHNICAL COLLEGE

PROJECT NAME

HGTC AUTOMOTIVE TECHNOLOGY BLDG. 1400 EXPANSION

CONWAY,SC 29526

H59-N302-CB

No.	Date	Description
1	2025-09-24	OSE COMMENTS
		ISSUANCE

PROJECT NUMBER
2025-2006

DRAWN: FMS
CHECKED: WDB

SHEET TITLE
BASE BID - LEVEL 1 PLUMBING DEMOLITION PLAN

SHEET NO.
PD-101

THIS SHEET PLOTS ON 24"X36" ARCH D

3" 2" 1" 1/2" 0

PLUMBING SYSTEMS SEISMIC AND WIND REQUIREMENTS

PER IBC-2021/ASCE 7-16

A. PER THE 2021 INTERNATIONAL BUILDING CODE, MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT AND COMPONENTS, INCLUDING THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED FOR SEISMIC FORCES IN ACCORDANCE WITH CHAPTER 13 OF ASCE 7-16.

B. EXTERIOR EQUIPMENT (INCLUDING ROOF CURBS, RAILS, SUPPORTS) EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH CHAPTER 26 TO 29 OF ASCE 7-16.

C. WHERE DESIGN FOR SEISMIC AND WIND LOADS IS REQUIRED, THE MORE DEMANDING FORCE MUST BE USED.

D. REFERENCE THE STRUCTURAL DRAWINGS FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY, WIND SPEEDS, ETC.

E. USE THE TABLE BELOW TO DETERMINE SEISMIC RESTRAINT REQUIREMENTS FOR EACH COMPONENT.

F. FOR ALL COMPONENTS REQUIRING SEISMIC RESTRAINT, THE COMPONENT SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL REGISTERED IN THE STATE THE JOB IS LOCATED. SUBMITTALS MUST INCLUDE STAMPED AND SIGNED DRAWINGS AND CALCULATIONS.

G. WHERE SEISMIC RESTRAINT IS REQUIRED, HOUSEKEEPING PADS NEEDED FOR THE INSTALLATION OF EQUIPMENT UNDER THIS CONTRACT MUST BE DESIGNED BY THE SEISMIC ENGINEER. DO NOT POUR ANY HOUSEKEEPING PADS PRIOR TO THE RECEIPT OF THE APPROVED SEISMIC SUBMITTAL.

H. SEISMIC RESTRAINTS FOR DUCTWORK, PIPING, CONDUIT, CABLE TRAYS AND BUS DUCT MUST BE SHOWN ON LAYOUT DRAWINGS SHOWING SPECIFIC RESTRAINT LOCATIONS ALONG WITH ACCOMPANYING DETAILS AND CALCULATIONS.

PLUMBING COMPONENT IMPORTANCE FACTOR (Ip) DESIGNATION

Ip = 1.0	Ip = 1.5
• ALL PLUMBING COMPONENTS EXCEPT AS LISTED UNDER Ip = 1.5	• NATURAL GAS PIPING & APPURTENANCES

SEISMIC DESIGN CATEGORIES D,E,F

		COMPONENT IMPORTANCE FACTOR (Ip)			
		1.0		1.5	
COMPONENT IDENTIFICATION		SEISMIC RESTRAINT REQUIREMENT	NOTES	SEISMIC RESTRAINT REQUIREMENT	NOTES
ROOF MOUNTED		RESTRAIN ALL	1	RESTRAIN ALL	-
FLOOR MOUNTED		RESTRAIN ALL	1, 2	RESTRAIN ALL	-
WALL MOUNTED		RESTRAIN ALL	1, 2	RESTRAIN ALL	-
COMPONENT SUPPORTS		RESTRAIN ALL	1	RESTRAIN ALL	-
SUSPENDED EQUIPMENT	INLINE W/ DUCT	RESTRAIN IF >75 LBS PROVIDE FLEX. CONN.	3	RESTRAIN IF >75 LBS PROVIDE FLEX. CONN.	3
	NOT INLINE W/ DUCT/PIPE	RESTRAIN ALL	1	RESTRAIN ALL	-
SUSPENDED DUCTILE PIPING (STEEL, ALUMINUM, COPPER, ETC.)		>3"	4	>1"	4
SUSPENDED NON-DUCTILE PIPING (CAST IRON, PLASTIC, CERAMIC)		RESTRAIN ALL	4	RESTRAIN ALL	4
SUSPENDED PIPE ON TRAPEZE		RESTRAIN IF ANY PIPE ON TRAPEZE > 3" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE > 10 LBS/FT	4	RESTRAIN IF ANY PIPE ON TRAPEZE > 1" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE > 10 LBS/FT	4
COMPONENT CERTIFICATION		NOT REQUIRED	5	REQUIRED	5

NOTES:
1. EQUIPMENT 20 LBS. OR LESS IS EXEMPT IF THE COMPONENT IS POSITIVELY ATTACHED TO THE STRUCTURE AND FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
2. RESTRAINTS ARE NOT REQUIRED IF THE COMPONENT WEIGHS 400 LBS. OR LESS, IS MOUNTED WITH THE CENTER OF MASS LOCATED AT 4 FT. OR LESS ABOVE A FLOOR, IS POSITIVELY ATTACHED TO THE STRUCTURE AND HAS FLEXIBLE CONNECTIONS BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
3. FLEXIBLE CONNECTIONS REQUIRED FOR PIPE CONNECTIONS ONLY.
4. RESTRAINT IS NOT REQUIRED IF THE PIPING IS SUPPORTED BY HANGERS AND EACH HANGER IN THE PIPING RUN IS 12 IN. OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE SUPPORTING STRUCTURE. WHERE PIPES ARE SUPPORTED ON A TRAPEZE, THE TRAPEZE SHALL BE SUPPORTED BY HANGERS HAVING A LENGTH OF 12 IN. OR LESS. WHERE ROD HANGERS ARE USED, THEY SHALL BE EQUIPPED WITH SWIVELS, EYE NUTS OR OTHER DEVICES TO PREVENT BENDING IN THE ROD.
5. COMPONENT CERTIFICATION MUST BE SUPPLIED BY THE EQUIPMENT MANUFACTURER AT TIME OF SUBMITTAL FOR REVIEW BY ENGINEER OF RECORD.

HAMMER ARRESTOR SCHEDULE

UNIT I.D.	PDI UNIT	FIXTURE UNIT	MANUFACTURER
HA	A	1-11	JOSAM 75000 OR EQUIVALENT ZURN, SMITH
HA	B	12-32	JOSAM 75000 OR EQUIVALENT ZURN, SMITH
HA	C	33-60	JOSAM 75000 OR EQUIVALENT ZURN, SMITH
HA	D	61-113	JOSAM 75000 OR EQUIVALENT ZURN, SMITH
HA	E	114-154	JOSAM 75000 OR EQUIVALENT ZURN, SMITH

REFRIGERATED AIR DRYER SCHEDULE

MARK	AIR FLOW RATE (SCFM)	BASIS OF DESIGN	MODEL
RFAD-2	64	INGERSOLL RAND	D108IN

NOTES:
1. EQUIPMENT SHALL BE CONTRACTOR FURNISHED & INSTALLED.
2. PROVIDE WITH IN-LINE FILTER / COALESCER, BOD: INGERSOLL RAND F-SERIES. SEE DETAIL.

AIR COMPRESSOR SCHEDULE

MARK	CAPACITY @ 90 PSI (CFM)	BASIS OF DESIGN	MODEL
AC-2	35.2	INGERSOLL RAND	2545k10-v

NOTES:
1. EQUIPMENT SHALL BE OWNER FURNISHED & CONTRACTOR INSTALLED.

ELECTRIC WATER HEATER SCHEDULE

MARK	STORAGE (GALLONS)	INPUT CAPACITY (KW)	RECOVERY @ 100°F (GPH)	FUEL	BASIS OF DESIGN	MODEL
WH	50	15	62	ELECTRIC WATER HEATER	A.O. Smith	DRE-52-15

NOTES:
1. REFER TO ELECTRICAL DRAWINGS FOR VOLTAGE REQUIREMENTS.
2. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
3. PROVIDE WITH EXPANSION TANK AND DRAIN PAN. REFER TO DETAIL FOR ADDITIONAL INFORMATION.

HOT WATER RECIRCULATING PUMP

MARK	GPM	HEAD FT WG	MOTOR SIZE	RATED SPEED RPM	TYPE	BASIS OF DESIGN	MODEL
RC	5 GPM	2	0.025 hp	3250	WET ROTOR CIRCULATOR PUMP	TACO	003

NOTES:
1. REFER TO ELECTRICAL DRAWINGS FOR VOLTAGE REQUIREMENTS.
2. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
3. PROVIDE WITH ADJUSTABLE AQUASTAT AND TIMER. REFER TO DETAIL FOR ADDITIONAL INFORMATION.

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE TYPE	FIXTURE DESCRIPTION	HOT WATER	COLD WATER	WASTE	VENT	BASIS OF DESIGN	MODEL	COMMENTS
EW	WALL MOUNTED EYEWASH UNIT	WALL MOUNTED EYEWASH WITH STAINLESS STEEL BOWL AND DUST COVER TAILPIECE AND P-TRAP. PROVIDE WITH EMERGENCY FIXTURE THERMOSTATIC MIXING VALVE.	3/4"	3/4"	1-1/4"	1-1/4"	BRADLEY FIXTURE BRADLEY TMV	S19-224DCP S19-2000	TMV SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION / WITHIN ACCESS PANEL PROVIDED IN WALL.
FD	FLOOR DRAIN	DURA-COATED CAST IRON BODY FLOOR DRAIN WITH BOTTOM OUTLET, ADJUSTABLE ROUND NICKEL BRONZE STRAINER, TRAP PRIMER CONNECTION.	---	1/2" (TP)	3"	1-1/2"	ZURN	Z415	---
HB	EXTERIOR HOSE BIB	FREEZELESS WALL HYDRANT WITH TEE HANDLE, VACUUM BREAKER, AND SQUARE BOX/DOOR ASSEMBLY WITH LOCKING SHIELD.	---	3/4"	---	---	WOODFORD	B65	---
HB-I	INTERIOR HOSE BIB	EXPOSED, LEAD-FREE, ANTI-SIPHON, MODERATE CLIMATE WALL HYDRANT FOR RESIDENTIAL AND LIGHT COMMERCIAL APPLICATIONS. HYDRANT FEATURES EXTERNAL VACUUM BREAKER WITH 3/4" MALE HOSE CONNECTION, BRONZE AND STAINLESS STEEL INTERIOR COMPONENTS, VANDAL RESISTANT OPERATING STEM, AND SECURED WHEEL-TYPE HANDLE. HYDRANT IS FINISHED WITH ROUGH BRONZE EXTERIOR WITH A CHOICE OF FIVE DIFFERENT INLET CONNECTION OPTIONS AND INCLUDES AN OPTIONAL LOOSE KEY	---	3/4"	---	---	ZURN	Z1341XL	---
P-1	FLOOR MOUNTED WATER CLOSET - ADA FLUSH TANK	ADA COMPLIANT FLOOR MOUNTED, FLOOR OUTLET, VITREOUS CHINA, SIPHON JET WATER CLOSET WITH ELONGATED BOWL (DESIGNED FOR A 1.28 GALLON FLUSH CYCLE). WATER CLOSET SHALL BE FITTED WITH OPEN FRONT SEAT WITHOUT COVER, FLUSH MECHANISM, AND WHEEL HANDLE ANGLE SUPPLY.	---	1/2"	4"	2"	ZURN FIXTURE ZURN SEAT	Z5555-K Z5955SS-EL	ADA COMPLIANT 17"-19" SEAT HEIGHT
P-2	WALL-MOUNTED LAVATORY	STUD MOUNTED CARRIER, 20"x18" VITREOUS CHINA, PUNCHED FOR 4" CENTER SET SINGLE-CONTROL MANUAL FAUCET (DESIGNED WITH 0.5 GPM FLOW CONTROL DEVICES), TRIM TO INCLUDE PERFORATED GRID STRAINER AND ADA OFFSET DRAIN FOR HANDICAPPED HC MODEL, 1-1/4" CAST BRASS (17 GAUGE) P-TRAP AND LOOSE KEY ANGLE SUPPLIES, SUPPLIES SHALL BE INSULATED BY MEANS OF A LAY-SHIELD. SUPPLIES AND TRAP SHALL BE CAREFULLY COORDINATED TO BE CONCEALED WITH MANUFACTURE'S SHROUD.	1/2"	1/2"	1-1/2"	1-1/2"	KOHLER FIXTURE ZURN FAUCET WATTS TMV	BRENHAM K-1999 Z82200-XL-CP4 LFUSG-B	ADA COMPLIANT 32"-34" RIM HEIGHT
P-3	SINGLE-BOWL DOUBLE-FAUCET SERVICE SINK	47"X20"X16" SINGLE BASIN, TWO FAUCET, VANDAL RESISTANT, STAINLESS STEEL WALL MOUNTED SERVICE SINK AND STRAINER WITH TWO SINGLE 1-1/4" HOLES PRE-DRILLED FOR FAUCETS. FAUCETS SHALL BE TWO CHROME-PLATED DOUBLE LABORATORY FAUCETS WITH INTEGRAL SHANK, QUARTER TURN CERAMIC DISC CARTRIDGES AND RIGID OR SWING GOOSENECK SPOUT. 2.2 GPM PRESSURE COMPENSATING AERATOR, VANDAL RESISTANT METAL LEVEL HANDLES, AND STAINLESS STEEL FLEX CONNECTION HOSES.	1/2"	1/2"	2"	1-1/2"	STAINLESS-AD BOWL ZURN FAUCET WATTS TMV	LAVATORY WSNK 2 Z826B1-XL LFUSG-B	---
P-4	ELECTRIC SINGLE-LEVEL WATER COOLER AND BOTTLE FILLER	WALL MOUNTED ADA SINGLE FILTERED REFRIGERATED WATER COOLER WITH BOTTLE FILLING STATION.	---	1/2"	2"	1-1/2"	ELKAY	LZS8WSAP	ADA COMPLIANT
P-5	MOP SINK	MOLDED STONE MOP SINK, ADA, PROVIDE WITH ACCESSORY BACK SPLASH, SERVICE FAUCET WITH 3/4 IN HOSE THREAD ON SPOUT, AND HOSE AND HOSE BRACKET. BOWL DEPTH 10 IN, SQUARE, BOWL SIZE 23 3/4 IN X 23 3/4 IN, WHITE, DRAIN OPENING 3 IN, UNFINISHED, GAUGE 0.25 IN, MOUNTING TYPE - SINKS FLOOR, NO. OF BOWLS 1, NUMBER OF STATIONS 1, OVERALL HEIGHT 10 IN, OVERALL LENGTH 24 IN, OVERALL WIDTH 24 IN.	1/2"	1/2"	3"	1-1/2"	FIAT BOWL FIAT FAUCET	MSB2424 830AA	---

NOTES:
1. PROVIDE ANGLE STOPS VALVES, SUPPLY TUBING, GRID STRAINERS, ADA OFFSET DRAINS, REMOVABLE P-TRAPS, ESCUTCHEON PLATES, DECK PLATES, CARRIERS, ADA LAVATORY SHIELD COVERS, ETC. FOR A COMPLETE INSTALLATION.
2. PROVIDE ALL REQUIRED ACCESSORIES AND OPTIONS FOR COMPLETE DRAIN INSTALLATIONS. REFER TO ARCHITECTURAL DETAILS FOR ADDITIONAL INFORMATION ON FLOOR AND ROOF CONSTRUCTION.
3. COORDINATE HEIGHT OF FLUSH VALVES AND SUPPLIES THROUGH WALL WITH ADA GRAB BARS PRIOR TO ORDERING. LOCATE FLUSH HANDLE OR MECHANICAL OVERRIDE ON ADA APPROACH SIDE.
4. COORDINATE ROUGH-IN LOCATIONS WITH BASEBOARD SO THAT THE ROUGH-IN AND ESCUTCHEON IS ABOVE THE BASEBOARD WITHOUT CONFLICT.
5. SEE ARCHITECTURAL PLANS FOR HEIGHT AND EXACT LOCATION OF FIXTURES.

PLUMBING ABBREVIATIONS

ABBR	DESCRIPTION
A/C	ABOVE CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BFP	BACKFLOW PREVENTER
BTU	BRITISH THERMAL UNIT
C	DOMESTIC COLD WATER SUPPLY
DIA	DIAMETER
DS	DRY TYPE FIRE SPRINKLER PIPING
F/A	FROM ABOVE
FCO	FLOOR CLEANOUT
FPM	FEET PER MINUTE
FT	FEET
GPF	GALLON PER FLUSH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	DOMESTIC HOT WATER SUPPLY
HA	HAMMER ARRESTOR
HB	HOSE BIBB
HR	DOMESTIC HOT WATER RETURN
I-A	INSTRUMENT AIR
IN	INCHES
IN WG	INCHES WATER GUAGE
NG	NATURAL GAS
OF	SECONDARY STORM
OFO	OVERFLOW OUTLET
P	PROPANE
PC	PLUMBING CONTRACTOR
S	SANITARY/WASTE PIPING
ST	STORM
T	TEMPERED WATER SUPPLY
TP	TRAP PRIMER
TR	TEMPERED WATER RETURN
U/G	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
V	VENT PIPING
VTR	VENT THRU ROOF
WCO	WALL CLEANOUT
WH	WATER HEATER

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
BFP	BACKFLOW PREVENTER		CONNECTION TO EXISTING SYSTEM
	FLOW CONTROL		DEMOLITION EXTENT
	PRESSURE REDUCING VALVE		CONTROL VALVE
	SWING CHECK VALVE		BALANCING VALVE
	PLUG VALVE		ISOLATION VALVE
	PIPE UP		SOLENOID VALVE
	PIPE REDUCER		PIPE DOWN
	PIPE TEE DOWN		PIPE STRAIGHT TEE
	HOSE BIBB - INTERIOR, EXTERIOR	FCO	FLOOR CLEANOUT
VTR	VENT THRU ROOF	FD	FLOOR DRAIN WITH FLOOR SLOPED TO DRAIN
			TRAP PRIMER

PLUMBING PIPING LEGEND

———	SANITARY AND WASTE PIPING
- - - - - - - - - - - -	VENT PIPING
——— – ———	DOMESTIC COLD WATER PIPING
——— – – ———	DOMESTIC HOT/TEMPERED WATER PIPING
——— – – – ———	DOMESTIC HOT/TEMPERED WATER RETURN PIPING
——— · ——— · ———	NATURAL GAS PIPING
———	STORM PIPING
———	SECONDARY STORM PIPING

PLUMBING CODES & STANDARDS (WITH ALL SOUTH CAROLINA MODIFICATIONS)

CODE	DESCRIPTION
IBC (2021)	INTERNATIONAL BUILDING CODE
IECC (2009)	INTERNATIONAL ENERGY CONSERVATION CODE
IFGC (2021)	INTERNATIONAL FUEL GAS CODE
IPC (2021)	INTERNATIONAL PLUMBING CODE
SMACNA (2020)	HVAC DUCT CONSTRUCTION STANDARDS MANUAL, FOURTH EDITION

GENERAL PLUMBING NOTES

1. PROVIDE ALL MATERIALS AND LABOR NECESSARY FOR A COMPLETE PLUMBING SYSTEM.
2. DO NOT SCALE DRAWINGS. OBTAIN ROUGH-IN DIMENSIONS FROM ARCHITECTURAL DRAWINGS OR FROM MANUFACTURERS PRINTED INSTRUCTIONS AND RECOMMENDATIONS ONLY.
3. COORDINATE PLUMBING SYSTEMS WITH ALL TRADES TO AVOID CONFLICTS PRIOR TO INSTALLATION OF PLUMBING COMPONENTS.
4. WHENEVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN FURNISH AND INSTALL COMPLETE AND READY FOR USE.
5. UNLESS OTHERWISE SHOWN OR NOTED, ALL PIPING SHALL BE RUN CONCEALED IN WALLS, CHASES AND/OR ABOVE CEILINGS.
6. ALL SUSPENDED PIPING SHALL BE SUPPORTED FROM BUILDING STRUCTURAL MEMBERS. IN NO CASE SHALL PIPING BE SUSPENDED FROM FLOOR OR ROOF DECK.
7. WHERE PIPES PENETRATE FIRE RATED ASSEMBLIES, SEAL OPENING AROUND PIPES WITH U.L. LISTED FIRE STOPPING MATERIAL TO MAINTAIN THE FIRE RATING OF THE ASSEMBLY.
8. PROVIDE INSULATION FOR PIPING COLLECTING CONDENSATE DRAIN.
9. PROVIDE HANGERS AND SUPPORTS WITHIN 12" OF EACH HORIZONTAL ELBOW FOR SANITARY AND VENT PIPING.
10. ALL CONNECTIONS TO, OR SHUTDOWN OF, EXISTING SYSTEMS SHALL BE COORDINATED WITH THE OWNER TO PROVIDE MINIMAL INTERFERENCE WITH THEIR OPERATIONS AND DOWNTIME OF THE SYSTEM.
11. AREAS OF WORK EXIST FOR THE PROJECT WHICH WERE NOT ACCESSIBLE OR PROVIDED LIMITED ACCESS DURING DESIGN. AS SUCH, CONTRACTOR SHALL VERIFY ALL UTILITIES IN AREA OF WORK INCLUDING LOCATION AND INVERT ELEVATION BEFORE DEMOLITION OF ANY SERVICE. ANY PIPING NOT SHOWN SHALL BE IDENTIFIED AND THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED AS SOON AS POSSIBLE. NO PIPING REWORK SHALL BE COMMENCED WITHOUT COORDINATION OF BOTH ARCHITECT AND ENGINEER.
12. IN AREAS WHERE THE EXISTING CEILINGS ARE NOT SLATED TO BE REPLACED, THE CONTRACTOR SHALL WORK THROUGH THE EXISTING CEILING (SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR AREA OF WORK). THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY DAMAGED TILE OR GRID THAT IS A RESULT OF THEIR WORK.
13. UNLESS OTHERWISE NOTED, WHERE EXISTING PIPING MUST BE DEMOLISHED, REMOVE ALL PIPING BACK TO THE MAIN AND CAP WITHIN ONE AND A HALF PIPE DIAMETERS NOT TO EXCEED 3 INCHES. DO NOT ABANDON DEAD LEG PIPING IN DOMESTIC WATER SYSTEMS.
14. PROVIDE A TEMPERATURE LIMITING DEVICE CONFORMING TO ASSE 1070 AT EACH LAVATORY, HAND WASHING SINK, OR ANY FIXTURE WITH A SENSOR FAUCET TO DELIVER 105°F WATER, UNLESS OTHERWISE NOTED. PROVIDE WATTS LFUSG-B FOR INDIVIDUAL LAVATORIES OR WATTS LFMMV FOR GROUPS OF LAVATORIES, OR APPROVED EQUALS.

PMH CROFT
ARCHITECTS & ENGINEERS
1300 Professional Drive, Suite 201
Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
www.pmhcroft.com

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — DWG, INC. CONSULTING ENGINEERS No.C03649

SOUTH CAROLINA REGISTERED — No. 30241 — 09/24/2025 — WILLIAM DEAN BILLARD II

DWG CONSULTING ENGINEERS EMPLOYEE OWNED
1009 Anna Knapp Blvd., Suite 200
Mt. Pleasant, SC 29464
843-849-1141

OWNER

HORRY GEORGETOWN TECHNICAL COLLEGE
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

HORRY GEORGETOWN TECHNICAL COLLEGE

PROJECT NAME

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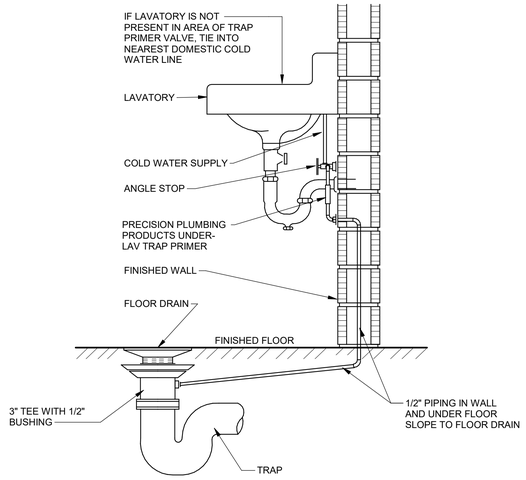
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PLUMBING NOTES, LEGENDS, & SCHEDULES

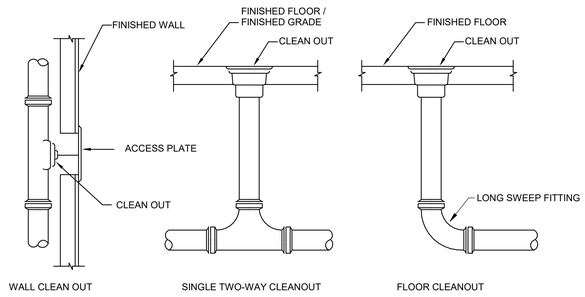
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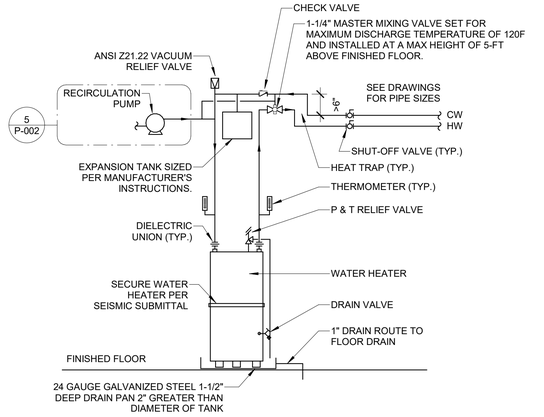
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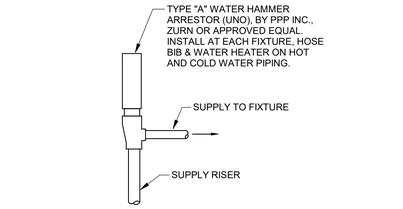
1 P-002 TRAP PRIMER VALVE DETAIL
NOT TO SCALE



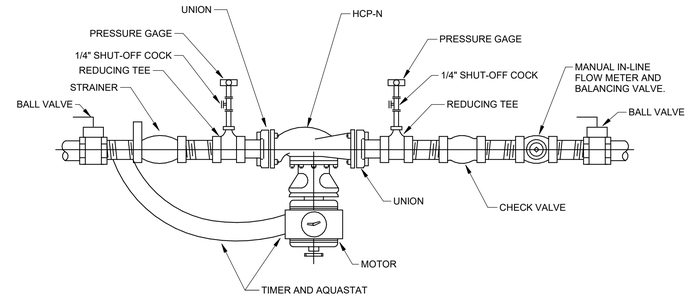
2 P-002 CLEANOUT DETAIL
NOT TO SCALE



3 P-002 WATER HEATER INSTALLATION DETAIL
NOT TO SCALE

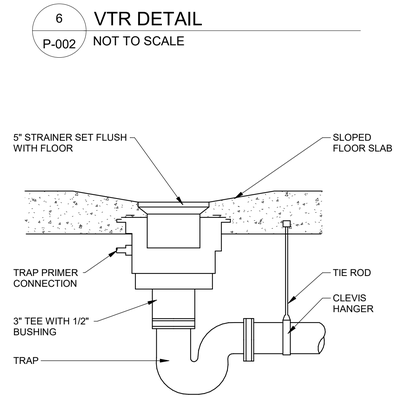


4 P-002 WATER HAMMER ARRESTOR DETAIL
NOT TO SCALE



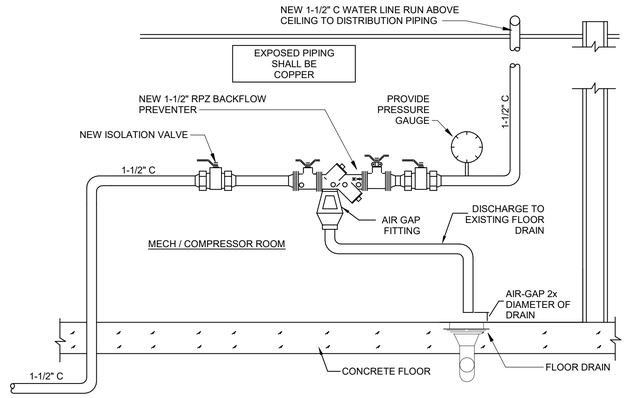
NOTE:
1. FACE OF PRESSURE GAUGES TO BE TURNED SO AS TO BE ABLE TO BE READ STANDING AT FLOOR LEVEL.
2. COORDINATE TIMER SETTINGS WITH ON-SITE MAINTENANCE STAFF.
3. SET AQUASTAT CONTROL FOR 20°F DROP IN RETURN LINE.

5 P-002 IN-LINE CIRCULATING PUMP DETAIL
NOT TO SCALE



6 P-002 VTR DETAIL
NOT TO SCALE

7 P-002 FLOOR DRAIN INSTALLATION DETAIL
NOT TO SCALE



8 P-002 BACKFLOW PREVENTER AND TAP DETAIL
NOT TO SCALE

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ARCHITECTS & ENGINEERS
1300 Professional Drive, Suite 201
Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
www.pmhcroft.com

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SOUTH CAROLINA PROFESSIONAL ENGINEER WILLIAM DEAN BILLARD II 09/24/2025

DWG CONSULTING ENGINEERS EMPLOYEE OWNED
1009 Anna Knapp Blvd., Suite 200
Mt. Pleasant, SC 29464
843-849-1141

OWNER
HORRY GEORGETOWN TECHNICAL COLLEGE
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

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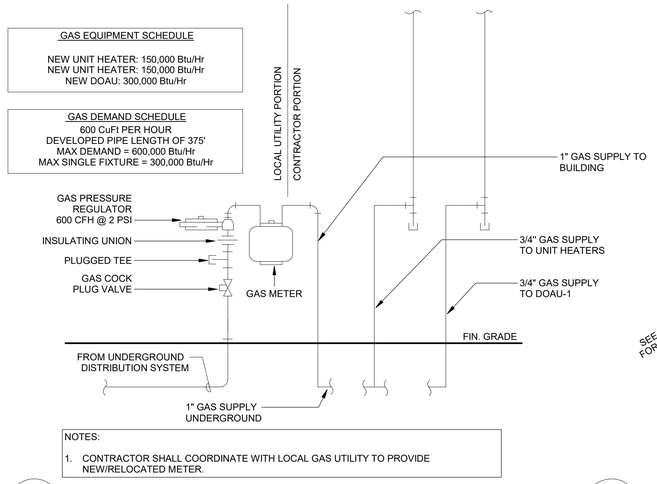
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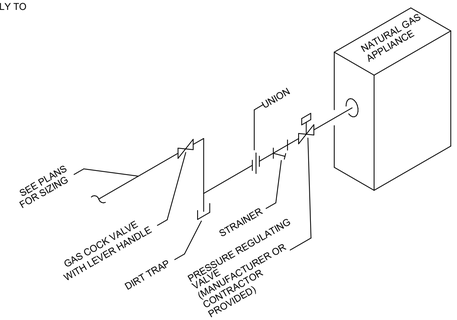
SHEET TITLE
PLUMBING DETAILS

SHEET NO.
P-002

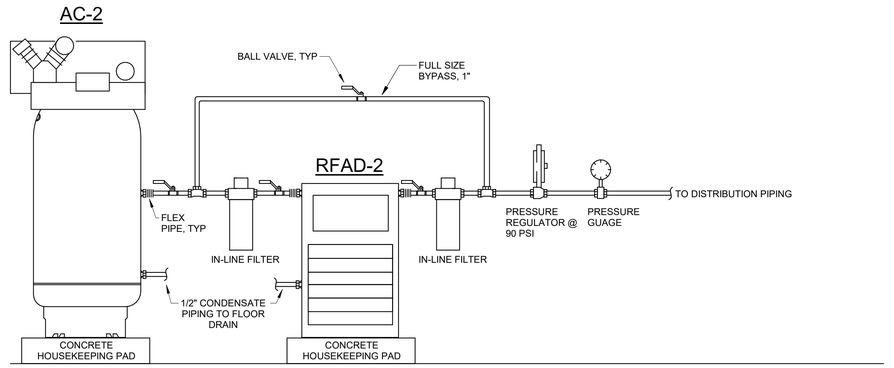
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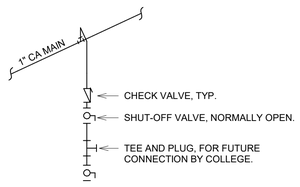
1 P-003 NATURAL GAS METER DETAIL
NOT TO SCALE



2 P-003 GAS FIRED APPLIANCE CONNECTION DETAIL
NOT TO SCALE



3 P-003 INSTRUMENT AIR INSTALLATION DETAIL
NOT TO SCALE



NOTES:
1. PROVIDE DROPS WHERE HOSE REEL IS NOT REQUIRED. SEE FLOOR PLANS.

4 P-003 COMPRESSED AIR DROP DETAIL
NOT TO SCALE

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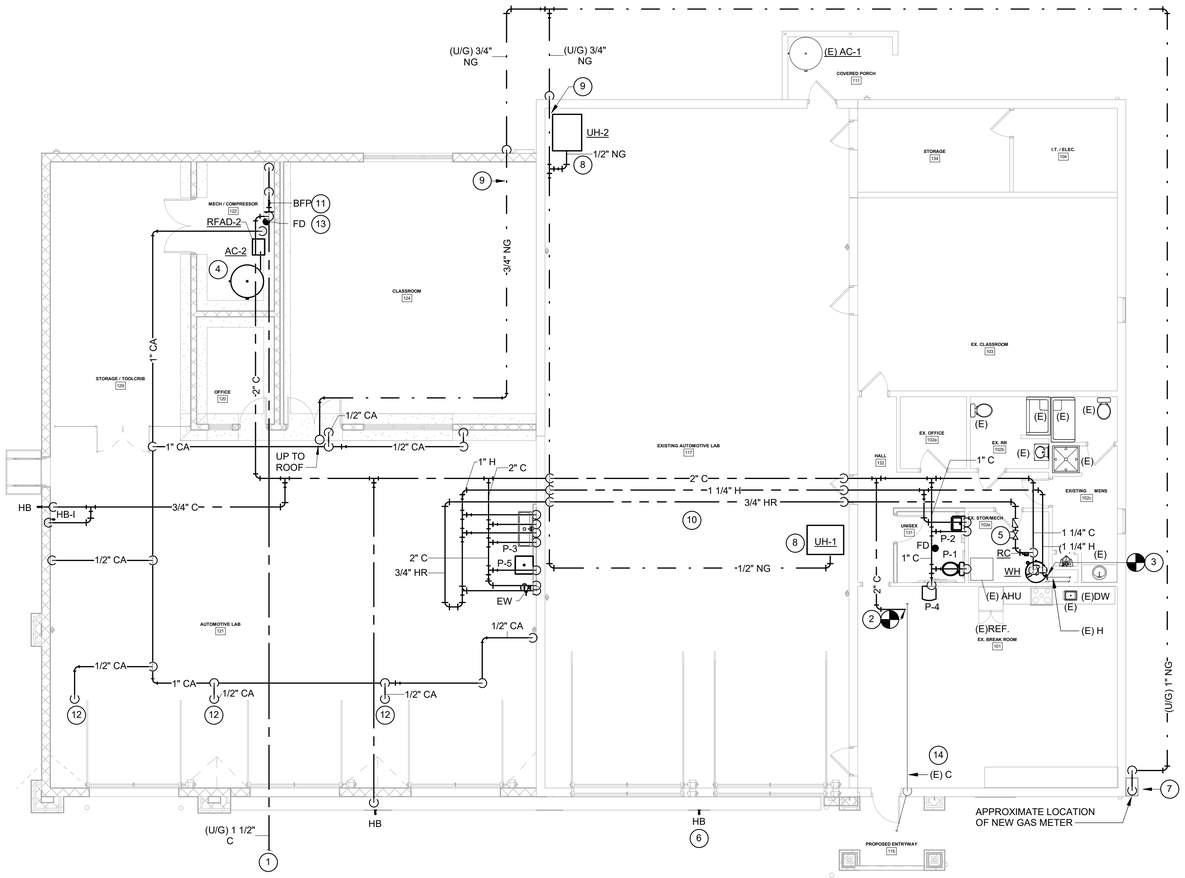
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SHEET TITLE
PLUMBING DETAILS

SHEET NO.
P-003



1 / P-101 BASE BID - LEVEL 1 - DOMESTIC WATER, NATURAL GAS & COMPRESSED AIR PLAN

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

RENOVATION KEYNOTES

1. NEW 1-1/2" DOMESTIC WATER SERVICE FROM UNDERGROUND. SEE CIVIL FOR CONTINUATION.
2. CONTRACTOR SHALL CONNECT EXISTING COLD WATER LINE TO NEW COLD WATER LINE UPSTREAM OF EXISTING FIXTURES. CONNECT TO EXISTING LINE IN ATTIC SPACE AS CLOSE AS POSSIBLE TO NEW WORK AND TO MINIMIZE CEILING DEMOLITION. CONNECTION LOCATION SHOWN ON PLAN IS DIAGRAMMATIC ONLY. PROVIDE ADDITIONAL VALVES AS NECESSARY FOR ISOLATION.
3. CONNECT EXISTING HOT WATER SUPPLY LINE TO NEW 1-1/4" HOT WATER LINE FROM NEW WATER HEATER.
4. NEW OWNER FURNISHED AIR COMPRESSOR AND CONTRACTOR FURNISHED REFRIGERATED AIR DRYER TO SUPPLY COMPRESSED AIR TO NEW PORTION OF BUILDING. PROVIDE 1" AIR DROPS, RAN EXPOSED, WHERE SHOWN ON PLAN.
5. BALANCE CIRCUIT SETTER TO 5 GPM.
6. EXTEND EXISTING WATER LINE AND INSTALL NEW HOSE BIB ON NEW EXTERIOR FACING.
7. APPROXIMATE LOCATION OF NEW GAS METER. ROUTE 1" GAS SUPPLY LINE UNDERGROUND AND AROUND BUILDING TO SERVICE NEW AND EXISTING EQUIPMENT. COORDINATE ROUTING WITH EXISTING UNDERGROUND ELECTRICAL / UTILITIES.
8. SEE GAS FIRED APPLIANCE CONNECTION DETAIL AND PROVIDE PRESSURE REGULATOR WITH VENT LIMITING DEVICE (MAXITROL 325-5L) ON GAS SUPPLY LINE TO UNIT HEATER.
9. NEW GAS LINE RAN ABOVE NEW CEILING.
10. NEW DOMESTIC LINES RAN BELOW EXISTING CEILING, TIGHT TO CEILING IN AUTOMOTIVE LAB AND ABOVE EXISTING CEILING IN HALL / EXISTING BREAKROOM SPACE.
11. PROVIDE 2" DOMESTIC WATER LINE DOWNSTREAM OF BACKFLOW AS ANNOTATED.
12. COMPRESSED AIR HOSE REELS TO BE PROVIDED AND INSTALLED, SUSPENDED FROM STRUCTURE, LOCATED ADJACENT TO VEHICLE LIFT MIDPOINT.
13. ROUTE 1/2" CONDENSATE LINE FROM AIR COMPRESSOR AND REFRIGERATED AIR DRYER TO FLOOR DRAIN.
14. DECOMMISSIONED DOMESTIC WATER SERVICE LINE SHALL BE CAPPED AND ABANDONED IN PLACE.

GENERAL NOTES

1. WHERE RUNOUT SIZE IS NOT SHOWN, REFER TO PLUMBING FIXTURE SCHEDULE FOR SIZE.
2. PIPING ON THIS PLAN IS SHOWN ROUTED CONCEALED IN WALLS AND ABOVE CEILINGS, UNO.
3. PROVIDE TRAP PRIMERS AND TUBING TO EVERY FLOOR DRAIN. TRAP PRIMERS AND TUBING NOT SHOWN FOR CLARITY.
4. PROVIDE WATER HAMMER ARRESTORS ON THE HOT AND COLD WATER PIPING AT EACH FIXTURE OR GROUP OF FIXTURES. HAMMER ARRESTORS NOT SHOWN FOR CLARITY. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO DETAIL FOR ADDITIONAL INFORMATION.
5. EXISTING WATER SERVICE TO REMAIN OPERATIONAL UP UNTIL NEW WATER SERVICE IS FULLY INSTALLED AND READY TO SUPPLY EXISTING FIXTURES.
6. COMPRESSED AIR QUICK COUPLINGS SHALL BE PROVIDED AND INSTALLED BY THE COLLEGE.
7. COMPRESSED AIR PIPING SHALL BE SLOPED BY 1-2%.

GRAPHIC SCALE
0 4' 8' 16' 32'
Scale: 1/8" = 1'-0"

N

PMH CROFT
ARCHITECTS & ENGINEERS
1300 Professional Drive, Suite 201
Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
www.pmhcroft.com

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DWG CONSULTING ENGINEERS
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1009 Anna Knapp Blvd., Suite 200
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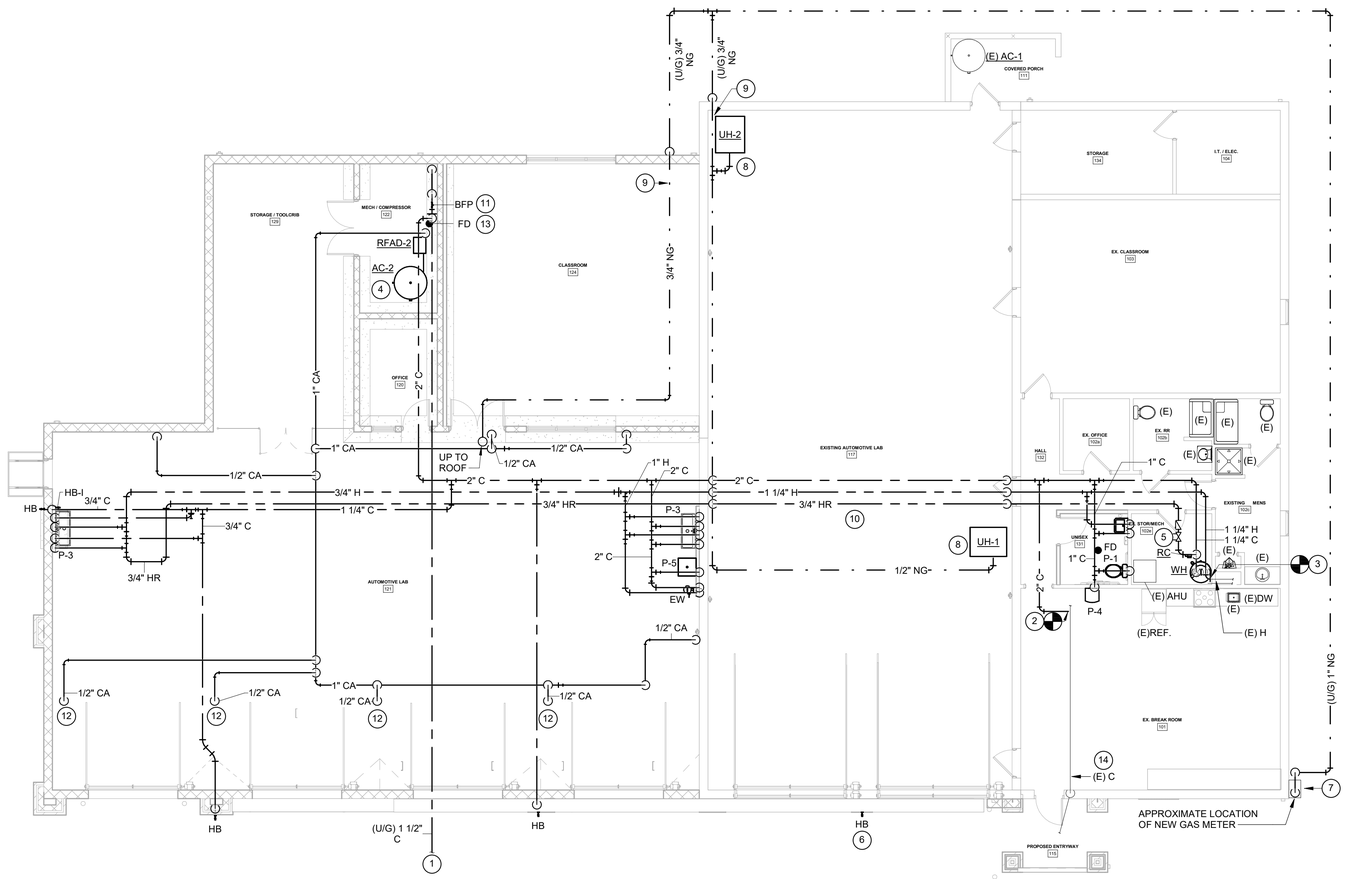
SHEET TITLE
BASE BID - LEVEL 1 DOMESTIC WATER, NATURAL GAS & COMPRESSED AIR PLAN

SHEET NO.
P-101

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1 / P-101A ALTERNATE 1 - LEVEL 1 - DOMESTIC WATER, NATURAL GAS & COMPRESSED AIR PLAN
SCALE: 1/8" = 1'-0"

RENOVATION KEYNOTES

1. NEW 1-1/2" DOMESTIC WATER SERVICE FROM UNDERGROUND. SEE CIVIL FOR CONTINUATION.
2. CONTRACTOR SHALL CONNECT EXISTING COLD WATER LINE TO NEW COLD WATER LINE UPSTREAM OF EXISTING FIXTURES. CONNECT TO EXISTING LINE IN ATTIC SPACE AS CLOSE AS POSSIBLE TO NEW WORK AND TO MINIMIZE CEILING DEMOLITION. CONNECTION LOCATION SHOWN ON PLAN IS DIAGRAMMATIC ONLY. PROVIDE ADDITIONAL VALVES AS NECESSARY FOR ISOLATION.
3. CONNECT EXISTING HOT WATER SUPPLY LINE TO NEW 1-1/4" HOT WATER LINE FROM NEW WATER HEATER.
4. NEW OWNER FURNISHED AIR COMPRESSOR AND CONTRACTOR FURNISHED REFRIGERATED AIR DRYER TO SUPPLY COMPRESSED AIR TO NEW PORTION OF BUILDING. PROVIDE 1" AIR DROPS, RAN EXPOSED, WHERE SHOWN ON PLAN.
5. BALANCE CIRCUIT SETTER TO 5 GPM.
6. EXTEND EXISTING WATER LINE AND INSTALL NEW HOSE BIB ON NEW EXTERIOR FACING.
7. APPROXIMATE LOCATION OF NEW GAS METER. ROUTE 3/4" GAS SUPPLY LINE UNDERGROUND AND AROUND BUILDING TO SERVICE NEW AND EXISTING EQUIPMENT. COORDINATE ROUTING WITH EXISTING UNDERGROUND ELECTRICAL / UTILITIES.
8. SEE GAS FIRED APPLIANCE CONNECTION DETAIL AND PROVIDE PRESSURE REGULATOR WITH VENT LIMITING DEVICE (MAXITROL 325-5L) ON GAS SUPPLY LINE TO UNIT HEATER.
9. NEW GAS LINE RAN ABOVE NEW CEILING.
10. NEW DOMESTIC LINES RAN BELOW EXISTING CEILING, TIGHT TO CEILING IN AUTOMOTIVE LAB AND ABOVE EXISTING CEILING IN HALL / EXISTING BREAKROOM SPACE.
11. PROVIDE 2" DOMESTIC WATER LINE DOWNSTREAM OF BACKFLOW AS ANNOTATED.
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13. ROUTE 1/2" CONDENSATE LINE FROM AIR COMPRESSOR AND REFRIGERATED AIR DRYER TO FLOOR DRAIN.
14. DECOMMISSIONED DOMESTIC WATER SERVICE LINE SHALL BE CAPPED AND ABANDONED IN PLACE.

GENERAL NOTES

1. WHERE RUNOUT SIZE IS NOT SHOWN, REFER TO PLUMBING FIXTURE SCHEDULE FOR SIZE.
2. PIPING ON THIS PLAN IS SHOWN ROUTED CONCEALED IN WALLS AND ABOVE CEILINGS, UNO.
3. PROVIDE TRAP PRIMERS AND TUBING TO EVERY FLOOR DRAIN. TRAP PRIMERS AND TUBING NOT SHOWN FOR CLARITY.
4. PROVIDE WATER HAMMER ARRESTORS ON THE HOT AND COLD WATER PIPING AT EACH FIXTURE OR GROUP OF FIXTURES. HAMMER ARRESTORS NOT SHOWN FOR CLARITY. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO DETAIL FOR ADDITIONAL INFORMATION.
5. EXISTING WATER SERVICE TO REMAIN OPERATIONAL UP UNTIL NEW WATER SERVICE IS FULLY INSTALLED AND READY TO SUPPLY EXISTING FIXTURES.
6. COMPRESSED AIR QUICK COUPLINGS SHALL BE PROVIDED AND INSTALLED BY THE COLLEGE.
7. COMPRESSED AIR PIPING SHALL BE SLOPED BY 1-2%.

GRAPHIC SCALE
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Scale: 1/8" = 1'-0"
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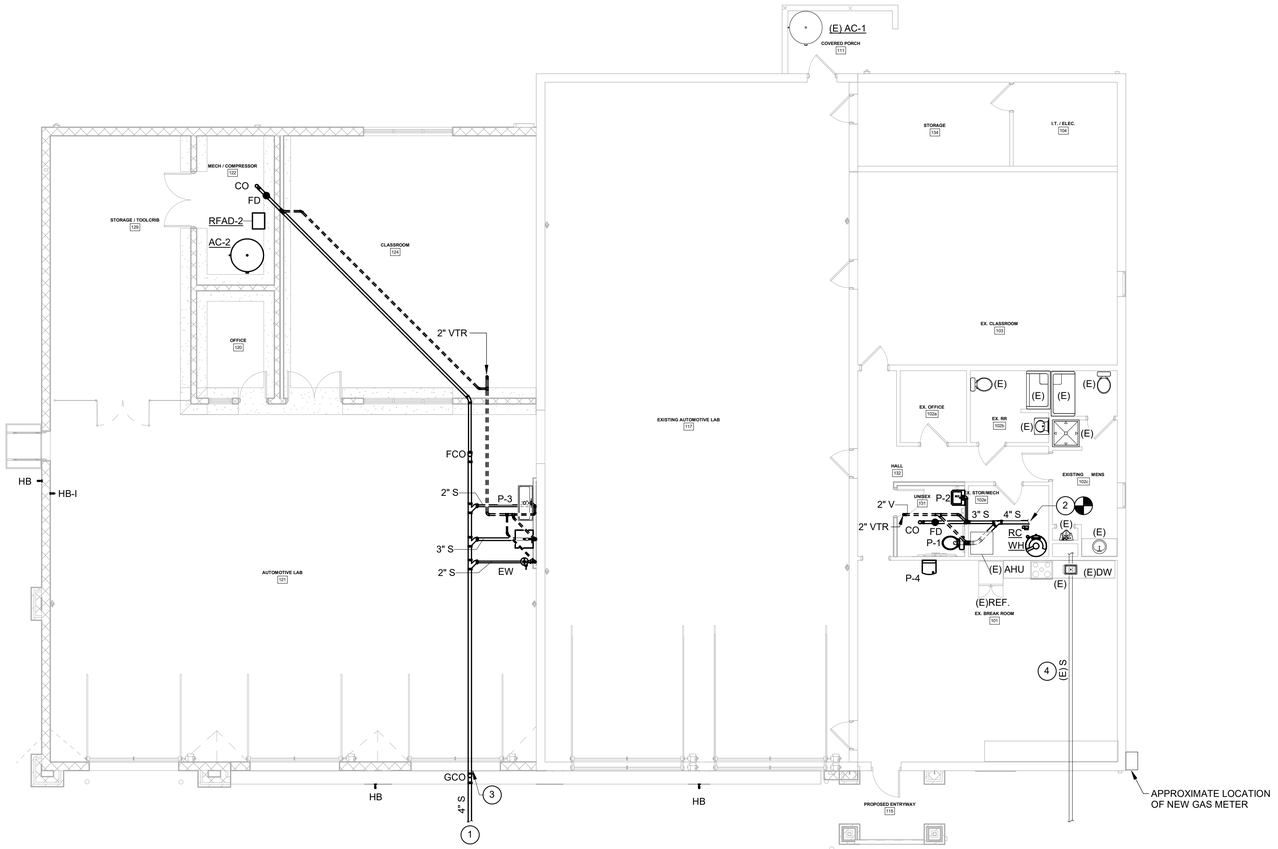
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SHEET TITLE
ALTERNATE 1 - LEVEL 1 DOMESTIC WATER, NATURAL GAS & COMPRESSED AIR PLAN - STA BAYS

P-101A



1 P-201 BASE BID - LEVEL 1 - SANITARY & VENT PLAN

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

RENOVATION KEYNOTES

1. NEW 4" SANITARY SERVICE. SEE CIVIL FOR CONTINUATION.
2. LOCATE EXISTING SANITARY LINE AND TIE IN NEW 4" LINE SERVING UNISEX BATHROOM. VERIFY EXISTING LINE IS A MINIMUM OF 4" AND IS FREE OF SAGS AND CLOGS PRIOR TO TIE IN. IF POSSIBLE, CONTRACTOR SHALL TIE IN NEW SANITARY LINE UPSTREAM OF EXISTING BATHROOM(S) SO THAT BATHROOM(S) REMAIN OPERATIONAL DURING THE NEW WORK.
3. REQUIRED INVERT OF -32" AT ENTRANCE TO BUILDING ASSUMING A FINISHED FLOOR ELEVATION OF 0.
4. APPROXIMATE LOCATION OF EXISTING SANITARY LINE.

GENERAL NOTES

1. WHERE RUNOUT SIZE IS NOT SHOWN, REFER TO PLUMBING FIXTURE SCHEDULE FOR SIZE.
2. VENT PIPING SHOWN DIAGRAMMATICALLY FOR CLARITY.
3. SANITARY PIPING ON THIS PLAN IS SHOWN ROUTED CONCEALED BELOW THE FLOOR AND VENT PIPING ABOVE THE CEILING TO SERVE THE FIXTURES ON THIS FLOOR, UNO.

GRAPHIC SCALE

0 4' 8' 16' 32'

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

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CONWAY,SC 29526

H59-N302-CB

No.	Date	Description
1	2025-09-24	OSE COMMENTS
		ISSUANCE

PROJECT NUMBER
2025-2006

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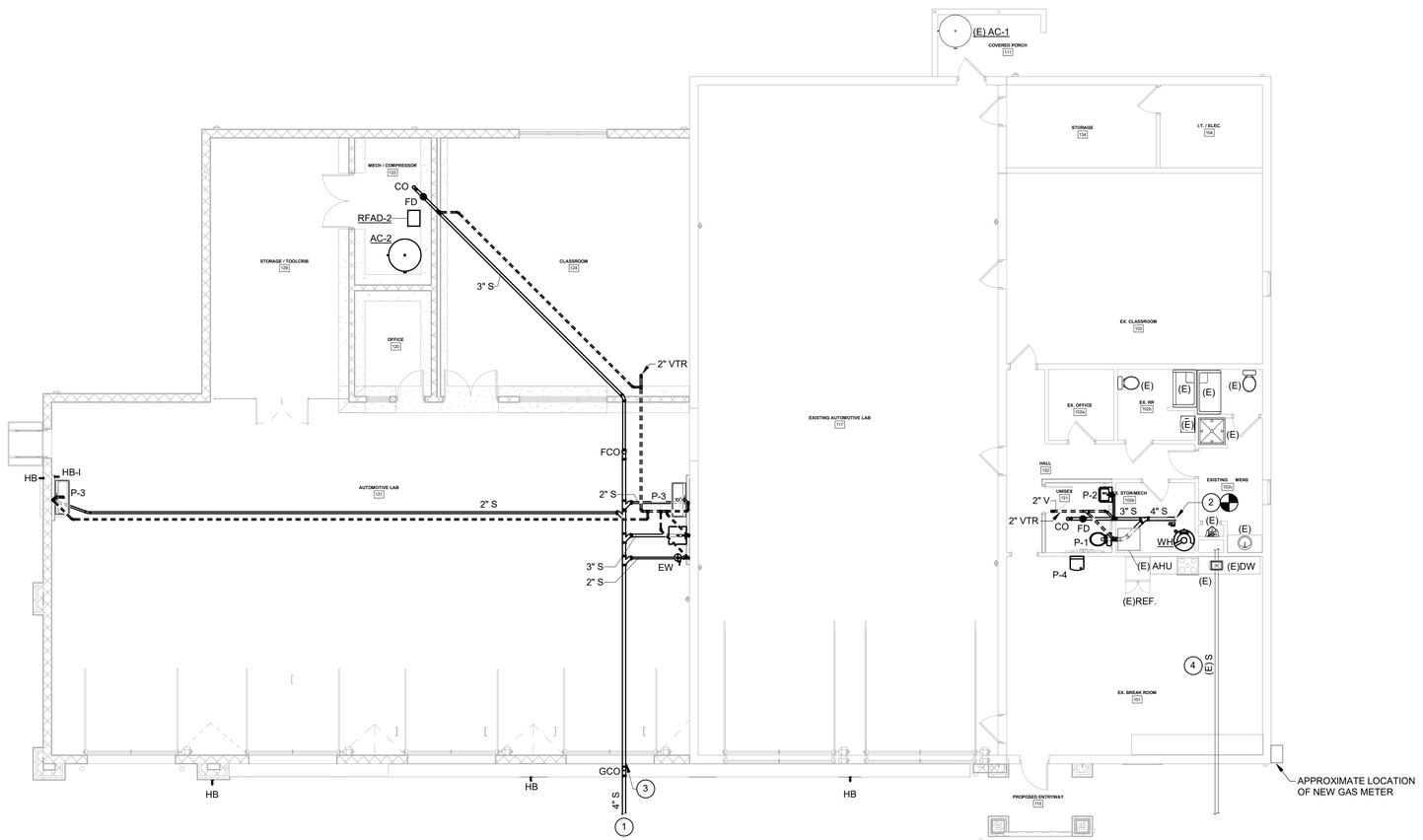
SHEET TITLE
BASE BID - LEVEL 1 SANITARY & VENT PLAN

SHEET NO.
P-201

THIS SHEET PLOTS ON 24"X36" ARCH D

0 1/2" 1" 2" 3"

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1 P-201A ALTERNATE 1 - LEVEL 1 - SANITARY & VENT PLAN

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

RENOVATION KEYNOTES

1. NEW 4" SANITARY SERVICE. SEE CIVIL FOR CONTINUATION.
2. LOCATE EXISTING SANITARY LINE AND TIE IN NEW 4" LINE SERVING UNISEX BATHROOM. VERIFY EXISTING LINE IS A MINIMUM OF 4" AND IS FREE OF SAGS AND CLOGS PRIOR TO TIE IN. IF POSSIBLE, CONTRACTOR SHALL TIE IN NEW SANITARY LINE UPSTREAM OF EXISTING BATHROOM(S) SO THAT BATHROOM(S) REMAIN OPERATIONAL DURING THE NEW WORK.
3. REQUIRED INVERT OF -34" AT ENTRANCE TO BUILDING ASSUMING A FINISHED FLOOR ELEVATION OF 0.
4. APPROXIMATE LOCATION OF EXISTING SANITARY LINE.

GENERAL NOTES

1. WHERE RUNOUT SIZE IS NOT SHOWN, REFER TO PLUMBING FIXTURE SCHEDULE FOR SIZE.
2. VENT PIPING SHOWN DIAGRAMMATICALLY FOR CLARITY.
3. SANITARY PIPING ON THIS PLAN IS SHOWN ROUTED CONCEALED BELOW THE FLOOR AND VENT PIPING ABOVE THE CEILING TO SERVE THE FIXTURES ON THIS FLOOR, UNO.

GRAPHIC SCALE
0 4' 8' 16' 32'
Scale: 1/8" = 1'-0"

N

PMH CROFT
ARCHITECTS & ENGINEERS
1300 Professional Drive, Suite 201
Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
www.pmhcroft.com

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
DWG, INC.
CONSULTING ENGINEERS
No.C03649

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
09/24/2025
WILLIAM DEAN BILLARD, II

DWG
CONSULTING ENGINEERS
EMPLOYEE OWNED
1009 Anna Knapp Blvd., Suite 200
Mt. Pleasant, SC 29464
843-849-1141

OWNER

HORRY GEORGETOWN TECHNICAL COLLEGE
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

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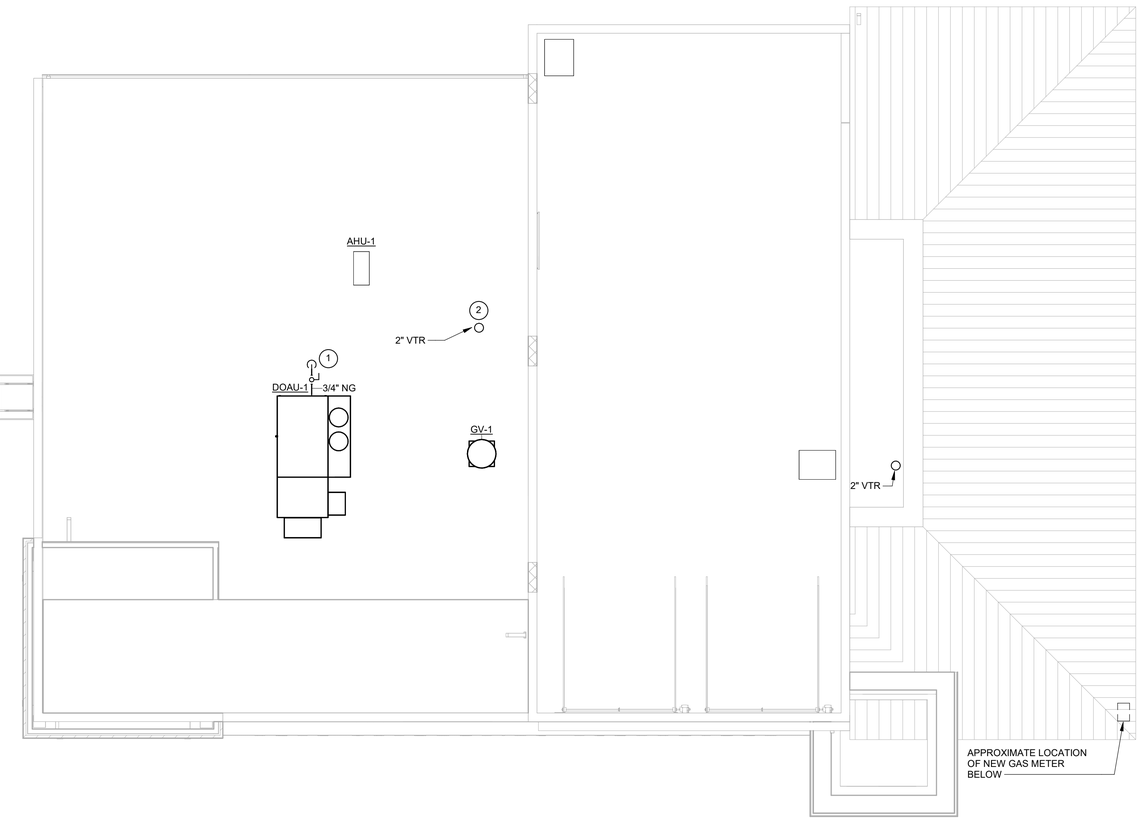
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SHEET TITLE
ALTERNATE 1 - LEVEL 1 SANITARY & VENT PLAN (4TH BAY)

SHEET NO.
P-201A

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0 1/2" 1" 2" 3"

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1 / P-202 BASE BID - ROOF PLUMBING PLAN
SCALE: 1/8" = 1'-0"

RENOVATION KEYNOTES

1. NEW GAS SUPPLY TO DOAU-1. SEE GAS FIRED APPLIANCE CONNECTION DETAIL. PROVIDE PRESSURE REGULATOR (MAXITROL 325-5L) WITH CORROSION RESISTANT COATING.
2. ENSURE VENT IS A MINIMUM OF 10 FT AWAY FROM AIR INTAKES.

GENERAL NOTES

1. WHERE RUNOUT SIZE IS NOT SHOWN, REFER TO PLUMBING FIXTURE SCHEDULE FOR SIZE.
2. VENT PIPING SHOWN DIAGRAMMATICALLY FOR CLARITY.
3. SANITARY PIPING ON THIS PLAN IS SHOWN ROUTED CONCEALED BELOW THE FLOOR AND VENT PIPING ABOVE THE CEILING TO SERVE THE FIXTURES ON THIS FLOOR, UNO.

GRAPHIC SCALE
0 4' 8' 16' 32'
Scale: 1/8" = 1'-0"

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SOUTH CAROLINA PROFESSIONAL ENGINEER WILLIAM DEAN BILLARD II 09/24/2025

DWG CONSULTING ENGINEERS EMPLOYEE OWNED
1009 Anna Knapp Blvd., Suite 200
Mt. Pleasant, SC 29464
843-849-1141

OWNER

HORRY GEORGETOWN TECHNICAL COLLEGE
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

HORRY GEORGETOWN TECHNICAL COLLEGE

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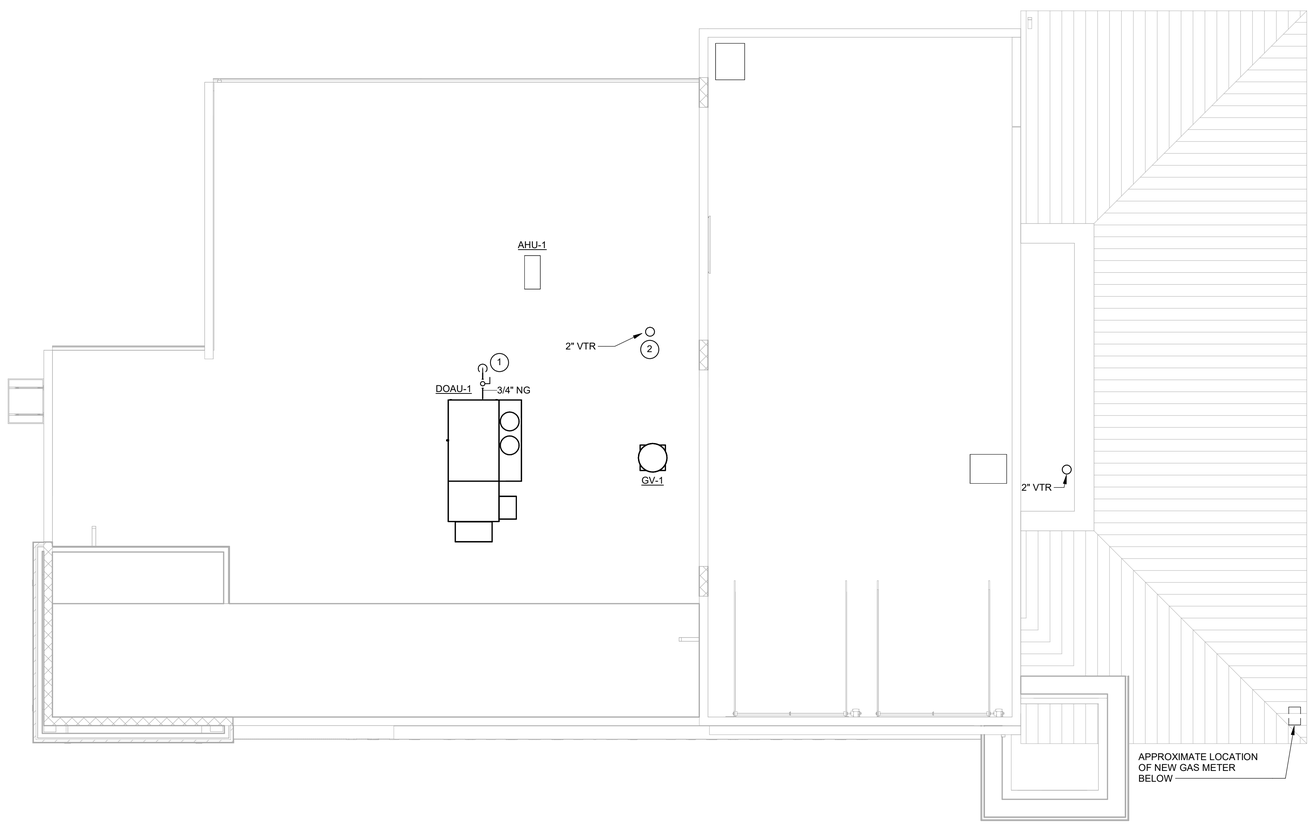
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SHEET TITLE
BASE BID - ROOF PLUMBING PLAN

SHEET NO.
P-202

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1 P-202A ALTERNATE 1 - ROOF PLUMBING PLAN
SCALE: 1/8" = 1'-0"

RENOVATION KEYNOTES

1. NEW GAS SUPPLY TO DOAU-1. SEE GAS FIRED APPLIANCE CONNECTION DETAIL.
2. ENSURE VENT IS A MINIMUM OF 10 FT AWAY FROM AIR INTAKES.

GENERAL NOTES

1. WHERE RUNOUT SIZE IS NOT SHOWN, REFER TO PLUMBING FIXTURE SCHEDULE FOR SIZE.
2. VENT PIPING SHOWN DIAGRAMMATICALLY FOR CLARITY.
3. SANITARY PIPING ON THIS PLAN IS SHOWN ROUTED CONCEALED BELOW THE FLOOR AND VENT PIPING ABOVE THE CEILING TO SERVE THE FIXTURES ON THIS FLOOR, UNO.

GRAPHIC SCALE
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1009 Anna Knapp Blvd., Suite 200
Mt. Pleasant, SC 29464
843-849-1141

OWNER

HORRY GEORGETOWN TECHNICAL COLLEGE
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

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ALTERNATE 1 - ROOF PLUMBING PLAN (4TH BAY)

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P-202A

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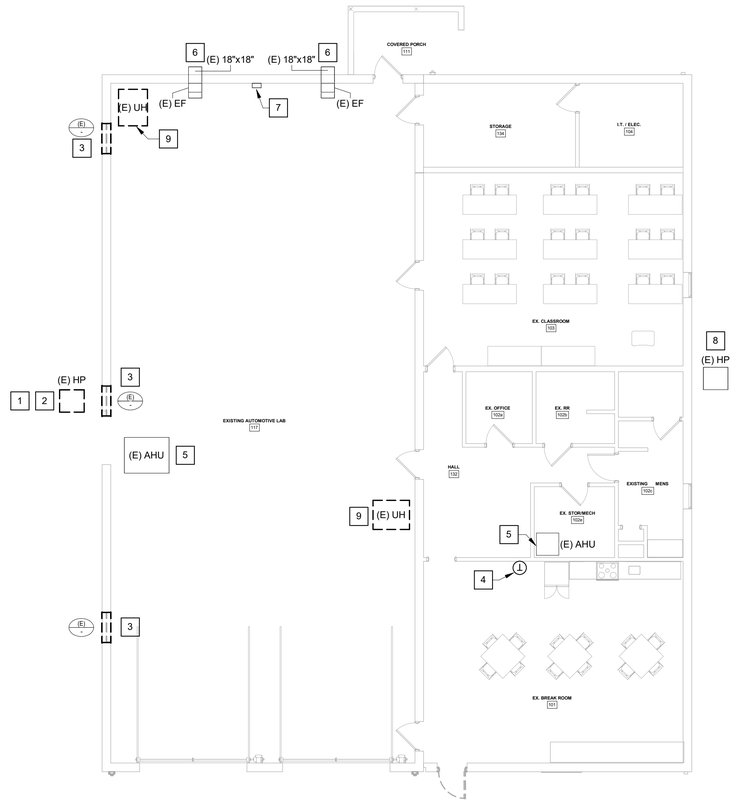
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1 MD-101 MECHANICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

DEMOLITION KEYNOTES

1. EXISTING OUTDOOR UNIT TO BE SALVAGED AND PROPERLY STORED FOR RELOCATION AND RECONNECTION DURING RENOVATION. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING UNIT.
2. PUMP DOWN AND RECOVER REFRIGERANT FOR RE-USE. DEMOLISH EXISTING REFRIGERANT PIPING FROM EXISTING HEAT PUMP TO ASSOCIATED EXISTING INDOOR UNIT.
3. DEMOLISH EXISTING LOUVER.
4. DISCONNECT EXISTING THERMOSTAT AND SAVE FOR RELOCATION DURING RENOVATION.
5. EXISTING AIR HANDLER AND ASSOCIATED DUCTWORK TO REMAIN.
6. EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK TO REMAIN.
7. EXISTING EXHAUST FAN SYSTEM SENSOR AND CONTROLLER TO REMAIN.
8. EXISTING HEAT PUMP TO REMAIN.
9. EXISTING NATURAL GAS HEATER TO BE DEMOLISHED. DISCONNECT FROM THE EXISTING VENT. THE EXISTING VENT IS TO REMAIN TO BE CONNECTED TO NEW HEATER DURING RENOVATION.

GENERAL NOTES

N

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

PMH CROFT
ARCHITECTS & ENGINEERS
1300 Professional Drive, Suite 201
Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
www.pmhcroft.com

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
DWG, INC. CONSULTING ENGINEERS No.C03649

SOUTH CAROLINA
WILLIAM DEAN BILLARD, II
No.30241
09/24/2025

DWG CONSULTING ENGINEERS
EMPLOYEE OWNED
1009 Anna Knapp Blvd., Suite 200
Mt. Pleasant, SC 29464
843-849-1141

OWNER

HORRY GEORGETOWN TECHNICAL COLLEGE
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

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SHEET TITLE
BASE BID - LEVEL 1 MECHANICAL DEMOLITION PLAN

SHEET NO.
MD-101

MECHANICAL SYSTEMS SEISMIC AND WIND REQUIREMENTS

PER IBC-2021/ASCE 7-16

A. PER THE 2021 INTERNATIONAL BUILDING CODE, MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT AND COMPONENTS, INCLUDING THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED FOR SEISMIC FORCES IN ACCORDANCE WITH CHAPTER 13 OF ASCE 7-16.

B. EXTERIOR EQUIPMENT (INCLUDING ROOF CURBS, RAILS, SUPPORTS) EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH CHAPTER 26 TO 29 OF ASCE 7-16.

C. WHERE DESIGN FOR SEISMIC AND WIND LOADS IS REQUIRED, THE MORE DEMANDING FORCE MUST BE USED.

D. REFERENCE THE STRUCTURAL DRAWINGS FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY, WIND SPEEDS, ETC.

E. USE THE TABLE BELOW TO DETERMINE SEISMIC RESTRAINT REQUIREMENTS FOR EACH COMPONENT.

F. FOR ALL COMPONENTS REQUIRING SEISMIC RESTRAINT, THE COMPONENT SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL REGISTERED IN THE STATE THE JOB IS LOCATED. SUBMITTALS MUST INCLUDE STAMPED AND SIGNED DRAWINGS AND CALCULATIONS.

G. WHERE SEISMIC RESTRAINT IS REQUIRED, HOUSEKEEPING PADS NEEDED FOR THE INSTALLATION OF EQUIPMENT UNDER THIS CONTRACT MUST BE DESIGNED BY THE SEISMIC ENGINEER. DO NOT POUR ANY HOUSEKEEPING PADS PRIOR TO THE RECEIPT OF THE APPROVED SEISMIC SUBMITTAL.

H. SEISMIC RESTRAINTS FOR DUCTWORK, PIPING, CONDUIT, CABLE TRAYS AND BUS DUCT MUST BE SHOWN ON LAYOUT DRAWINGS SHOWING SPECIFIC RESTRAINT LOCATIONS ALONG WITH ACCOMPANYING DETAILS AND CALCULATIONS.

MECHANICAL COMPONENT IMPORTANCE FACTOR (Ip) DESIGNATION

Ip = 1.0	Ip = 1.5
• **ALL HVAC COMPONENTS EXCEPT AS NOTED IN Ip=1.5**	

SEISMIC DESIGN CATEGORIES D,E,F

		COMPONENT IMPORTANCE FACTOR (Ip)			
		1.0		1.5	
COMPONENT IDENTIFICATION		SEISMIC RESTRAINT REQUIREMENT	NOTES	SEISMIC RESTRAINT REQUIREMENT	NOTES
ROOF MOUNTED		RESTRAIN ALL	1	RESTRAIN ALL	-
FLOOR MOUNTED		RESTRAIN ALL	1, 2	RESTRAIN ALL	-
WALL MOUNTED		RESTRAIN ALL	1, 2	RESTRAIN ALL	-
COMPONENT SUPPORTS		RESTRAIN ALL	1	RESTRAIN ALL	-
SUSPENDED EQUIPMENT	INLINE W/ DUCT	RESTRAIN IF >75 LBS PROVIDE FLEX. CONN.	3	RESTRAIN IF >75 LBS PROVIDE FLEX. CONN.	3
	NOT INLINE W/ DUCT/PIPE	RESTRAIN ALL	1	RESTRAIN ALL	-
SUSPENDED DUCTILE PIPING (STEEL, ALUMINUM, COPPER, ETC.)		>3"	4	>1"	4
SUSPENDED NON-DUCTILE PIPING (CAST IRON, PLASTIC, CERAMIC)		RESTRAIN ALL	4	RESTRAIN ALL	4
SUSPENDED PIPE ON TRAPEZE		RESTRAIN IF ANY PIPE ON TRAPEZE > 3" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE > 10 LBS/FT	4	RESTRAIN IF ANY PIPE ON TRAPEZE > 1" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE > 10 LBS/FT	4
DUCTWORK		6 SQ.FT. AND LARGER AND ≥ 17 LBS/FT	4,5	6 SQ.FT. AND LARGER AND ≥ 17 LBS/FT	4,5
MULTIPLE DUCTS ON TRAPEZE		RESTRAIN IF TOTAL WEIGHT OF DUCTS ON TRAPEZE > 10 LBS/FT	4,5	RESTRAIN IF TOTAL WEIGHT OF DUCTS ON TRAPEZE > 10 LBS/FT	4,3
COMPONENT CERTIFICATION		NOT REQUIRED	-	REQUIRED	6

NOTES:

1. EQUIPMENT 20 LBS. OR LESS IS EXEMPT IF THE COMPONENT IS POSITIVELY ATTACHED TO THE STRUCTURE AND FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
2. RESTRAINTS ARE NOT REQUIRED IF THE COMPONENT WEIGHS 400 LBS. OR LESS, IS MOUNTED WITH THE CENTER OF MASS LOCATED AT 4 FT. OR LESS ABOVE A FLOOR, IS POSITIVELY ATTACHED TO THE STRUCTURE AND HAS FLEXIBLE CONNECTIONS BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
3. FLEXIBLE CONNECTIONS REQUIRED FOR PIPE CONNECTIONS ONLY.
4. RESTRAINT IS NOT REQUIRED IF THE PIPING / DUCTWORK IS SUPPORTED BY HANGERS AND EACH HANGER IN THE PIPING RUN IS 12 IN. OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE SUPPORTING STRUCTURE. WHERE PIPES ARE SUPPORTED ON A TRAPEZE, THE TRAPEZE SHALL BE SUPPORTED BY HANGERS HAVING A LENGTH OF 12 IN. OR LESS. WHERE ROD HANGERS ARE USED, THEY SHALL BE EQUIPPED WITH SWIVELS, EYE NUTS OR OTHER DEVICES TO PREVENT BENDING IN THE ROD.
5. ALL DUCTWORK , REGARDLESS OF SIZE, DESIGNED TO CARRY TOXIC, HIGHLY TOXIC, OR EXPLOSIVE GASES OR USED FOR SMOKE CONTROL MUST BE RESTRAINED.
6. COMPONENT CERTIFICATION MUST BE SUPPLIED BY THE EQUIPMENT MANUFACTURER AT TIME OF SUBMITTAL FOR REVIEW BY ENGINEER OF RECORD.

MECHANICAL ABBREVIATIONS

ABBR	DESCRIPTION
(E)	EXISTING
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AH	AIR HANDLER
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP
BHP	BRAKE HORSE POWER
BMS	BUILDING MANAGEMENT SYSTEM
BOD	BASIS OF DESIGN
BOP	BOTTOM OF PIPE
CFM	CUBIC FEET PER MINUTE
CO	CARBON MONOXIDE
CU	CONDENSING UNIT
DB	DECIBELS
DDC	DIRECT DIGITAL CONTROLS
DIA	DIAMETER
DRN	DRAIN
EA	EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
EDH	ELECTRICAL DUCT HEATER
EF	EXHAUST FAN
EH	ELECTRIC HEATER
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
ESP	EXTERNAL STATIC PRESSURE
FD	FLOOR DRAIN
FD	FIRE DAMPER
FPM	FEET PER MINUTE
FRPM	FAN ROTATIONS PER MINUTE
FT	FEET
GPM	GALLONS PER MINUTE
HD	HUB DRAIN
HP	HEAT PUMP
HP	HORSEPOWER
IN	INCHES
LAT	LEAVING AIR TEMPERATURE
MBH	THOUSANDS OF BTU'S PER HOUR
MC	MECHANICAL CONTRACTOR
MD	MANUAL DAMPER
NC	NOISE CRITERIA
NG	NATURAL GAS PIPING
NO	NORMALLY OPEN
NO2	NITROGEN DIOXIDE
OA	OUTSIDE AIR
OF	OVER FLOW
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PS	PIPE SUPPORT
RA	RETURN AIR
REFR	REFRIGERANT
RH	RELATIVE HUMIDITY
RM	REMOTE MONITOR
RPM	ROTATIONS PER MINUTE
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SF	SUPPLY FAN
TDV	TRIPLE DUTY VALVE
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
VFD	VARIABLE FREQUENCY DRIVE
VNT	VENT
W/	WITH
WMS	WIRE MESH SCREEN
°F	DEGREES FAHRENHEIT

MECHANICAL CODES & STANDARDS (WITH ALL SOUTH CAROLINA MODIFICATIONS)

CODE	DESCRIPTION
SMACNA (2020)	HVAC DUCT CONSTRUCTION STANDARDS MANUAL, FOURTH EDITION
IBC (2021)	INTERNATIONAL BUILDING CODE
IECC (2009)	INTERNATIONAL ENERGY CONSERVATION CODE
IMC (2021)	INTERNATIONAL MECHANICAL CODE
NFPA 90A (2021)	STANDARD FOR THE INSTALLATION AIR-CONDITIONING & VENTILATING SYSTEMS

HVAC SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
X Y	AIR TERMINAL TAG, X=TYPE MARK, Y=CFM	X"x Y"	DUCTWORK (X" = WIDTH, Y" = HEIGHT)
	AIR TERMINAL DIFFUSER (CEILING MOUNTED)		PREINSULATED FLEXIBLE DUCT
	AIR TERMINAL RETURN GRILLE (CEILING MOUNTED)		TURNING VANES
	AIR TERMINAL EXHAUST GRILLE (CEILING MOUNTED)		CONDENSING UNIT
	SIDEWALL REGISTER / GRILLE		ROOFTOP UNIT
T	THERMOSTAT		ROOF CAP
H	HUMIDISTAT		CEILING MOUNTED EXHAUST FAN
CO2	CO2 SENSOR		CABLE OPERATED DAMPER
SD	DUCT MOUNTED SMOKE DETECTOR (BY E.C.)		FLEXIBLE DUCT CONNECTION
	EQUIPMENT CLEARANCE		CONNECTION TO EXISTING SYSTEM
FD	FIRE DAMPER		DEMOLITION EXTENT
	MANUAL DAMPER	M	MOTORIZED DAMPER
T	THERMOSTAT (DUCT MOUNTED)	H	HUMIDISTAT (DUCT MOUNTED)

GENERAL MECHANICAL NOTES

1. THE DRAWINGS SHOW THE GENERAL ARRANGEMENT AND LOCATION OF EQUIPMENT, DUCTWORK, PIPING, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE MECHANICAL INSTALLATION W/ THE STRUCTURE AND OTHER TRADES AND SHALL PROVIDE ADDITIONAL OFFSETS AND FITTINGS AS NECESSARY.
2. THE HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS SHALL COMPLY WITH THE THE CODES LISTED ON THIS SHEET AS WELL AS ALL LOCAL CODE OFFICIAL REQUIREMENTS. IN THE EVENT OF A CONFLICT BETWEEN CODES, THE MOST STRINGENT SHALL ALWAYS GOVERN.
3. DUCT DIMENSIONS ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
4. THE CONTRACTOR SHALL CHECK AND VERIFY ALL CLEARANCES PRIOR TO FABRICATION OR INSTALLATION OF EQUIPMENT, DUCTWORK, AND PIPING SYSTEMS. WHERE CONDITIONS REQUIRE A CHANGE IN DUCT OR PIPE ROUTING, NOTIFY THE ARCHITECT FOR AN ACCEPTABLE ALTERNATIVE METHOD. AVOID ROUTING DUCTWORK DIRECTLY OVER LIGHT FIXTURES, DIFFUSERS, AND OTHER CEILING MTD. DEVICES. LOCATE ALL MECHANICAL EQUIPMENT SO THAT FILTERS AND COMPONENTS REQUIRING ACCESS (SERVICE AND MAINTENANCE) ARE FULLY ACCESSIBLE.
5. PROVIDE CURVED RADIUS ELBOW AT FIRST SUPPLY & RETURN FITTING FOR ALL HVAC UNITS. PROVIDE TURNING VANES IN ALL 90 DEGREE ELBOWS IN ALL RECTANGULAR SUPPLY/RETURN/EXHAUST DUCT SYSTEMS. ANY OFFSETS REQUIRED IN DUCT SYSTEMS SHALL BE INSTALLED PER SMACNA 2020 4TH EDITION MANUAL . SHARP ANGLED TRANSITIONS OR OFFSETS 'WILL NOT BE ALLOWED'. PROVIDE DUCT ACCESS DOORS AS REQUIRED.
6. INSTALL ALL DUCT MOUNTED DEVICES (DAMPERS, ACCESS DOORS, ETC.) AND PIPING SPECIALTIES IN EASILY ACCESSIBLE LOCATIONS. ADVISE THE ARCHITECT IN ADVANCE OF INSTALLATION IF ACCESS WILL BE HINDERED SO AN ALTERNATE LOCATION CAN BE SELECTED.
7. ALL DUCT TAKE-OFFS SHALL BE INSTALLED AS SHOWN BY DETAILS ON THE PLANS WITH A MANUAL BALANCING DAMPER AT EVERY TAKE-OFF. WHERE DUCT RUN-OUT SIZE IS NOT SHOWN PROVIDE DUCT SAME SIZE AS GRILLE NECK SIZE. PRE-INSULATED FLEXIBLE DUCT MAY BE USED FOR FINAL CONNECTION TO SUPPLY GRILLES (MAX. LENGTH 5').
8. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH PRESCRIBED CLEARANCES FOR SERVICE AND MAINTENANCE. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IF RECOMMENDED CLEARANCES ARE NOT POSSIBLE BEFORE INSTALLING EQUIPMENT.
9. ALL ROTATING MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH VIBRATION ISOLATION. PROVIDE FLEXIBLE NEOPRENE DUCT CONNECTORS BETWEEN DUCTWORK AND ISOLATED MECHANICAL EQUIPMENT.
10. THE CONTRACTOR SHALL FIRESTOP ALL PENETRATIONS OF FIRE RATED WALLS/FLOORS/CEILINGS BY DUCTWORK PIPING, ETC., WITH U.L. LISTED FIRE STOPPING MATERIAL TO MAINTAIN FIRE RATING OF THE BARRIER.
11. SEISMIC PROTECTION OF EQUIPMENT, DUCTWORK, PIPING AND UTILITIES SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 16 OF THE INTERNATIONAL BUILDING CODE, 2021 EDITION. ALL SEISMIC RESTRAINT AND BRACING SHALL BE SUBSTANTIATED BY MANUFACTURER'S SUBMITTALS PER THE SPECIFICATIONS. FOR ADDITIONAL INFORMATION, SEE 'MECHANICAL SYSTEMS SEISMIC AND WIND REQUIREMENTS' ON THIS SHEET. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF SEISMIC BRACING DEVICES WITH THE OWNER'S SEISMIC SPECIAL INSPECTOR. PROVIDE A MINIMUM OF SEVEN DAYS ADVANCE NOTICE OF INSTALLATION.
12. BALANCE ALL AIR DISTRIBUTION DEVICES, EXHAUST FANS, AND OUTSIDE AIR QUANTITIES AS SCHEDULED OR SHOWN ON THE DRAWINGS. PROVIDE MARKERS AT ALL DAMPER LOCATIONS SHOWING FULL OPEN/CLOSED POSITIONS AND DAMPER SETTING FOR REQUIRED AIRFLOW. PROVIDE FINAL TEST AND BALANCE REPORT ALONG W/ SCHEMATIC DRAWINGS SHOWING DIFFUSER LOCATION W/ DESIGN AND ACTUAL CFM. THE DIFFUSER TAGS ON THE DRAWINGS SHALL CORRESPOND TO THE DIFFUSER TAGS ON THE REPORT. THIS REPORT SHALL BE SUBMITTED BEFORE THE FINAL INSPECTION IS PERFORMED. SEE SPECIFICATIONS FOR FURTHER INFORMATION.
13. ALL CONTROL WIRING AND CONTROLS ACCESSORIES NECESSARY TO IMPLEMENT THE OUTLINED SEQUENCES OF OPERATION SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR. COORDINATE CONDUIT REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
14. WIND LOAD PROTECTION OF ROOF MOUNTED EQUIPMENT AND DUCTWORK SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 16 OF THE INTERNATIONAL BUILDING CODE. ALL WIND LOAD RESTRAINT AND BRACING SHALL BE SUBSTANTIATED BY MANUFACTURER'S SUBMITTALS PER THE SPECIFICATIONS.
15. ALL EXPOSED PIPING AND DUCTWORK SHALL BE PAINTED. COORDINATE W/ ARCHITECTURAL PLANS/SPECIFICATIONS FOR EXPOSED LOCATIONS AND PAINTING REQUIREMENTS.
16. SEE ARCHITECTURAL DOCUMENTS FOR ROOF PENETRATION AND FLASHING REQUIREMENTS.
17. WHERE "APPROXIMATELY" IS USED TO DEFINE INSTALLATION LOCATIONS, CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO VERIFY THERE ARE NO CONFLICTS PRIOR TO INSTALLATION AT DIMENSION LISTED.

PMH CROFT
ARCHITECTS & ENGINEERS
1300 Professional Drive, Suite 201
Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
www.pmhcroft.com

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION DWG, INC. CONSULTING ENGINEERS No.C03649

SOUTH CAROLINA No.30241 09/29/2025 WILLIAM DEAN BILLARD, II

DWG CONSULTING ENGINEERS EMPLOYEE OWNED
1009 Anna Knapp Blvd., Suite 200
Mt. Pleasant, SC 29464
843-849-1141

OWNER

HORRY GEORGETOWN TECHNICAL COLLEGE
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

HORRY GEORGETOWN TECHNICAL COLLEGE

PROJECT NAME

HGTC AUTOMOTIVE TECHNOLOGY BLDG. 1400 EXPANSION

CONWAY,SC 29526

H59-N302-CB

No.	Date	Description
1	2025-09-24	OSE COMMENTS
ISSUANCE		

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SHEET TITLE
MECHANICAL NOTES & LEGENDS

SHEET NO.
M-001

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DEDICATED OUTDOOR AIR UNIT SCHEDULE

MARK	SUPPLY FAN			EXHAUST FAN			ENTHALPY WHEEL				DX COOLING COIL				HOT GAS REHEAT		NATURAL GAS HEATING COIL					MANUFACTURER	MODEL NUMBER
							SUMMER SUPPLY		WINTER SUPPLY														
	SUPPLY AIRFLOW (CFM)	EXTERNAL STATIC PRESSURE	MOTOR HORSEPOWER	EXHAUST AIRFLOW (CFM)	EXTERNAL STATIC PRESSURE	MOTOR HORSEPOWER	EAT (DB/WB °F)	LAT (DB/WB °F)	EAT (DB/WB °F)	LAT (DB/WB °F)	TOTAL CAPACITY (MBH)	SENS. CAPACITY (MBH)	EAT (DB/WB °F)	LAT (DB/WB °F)	MAX CAPACITY (MBH)	LAT (°F)	INPUT CAPACITY (MBH)	OUTPUT CAPACITY (MBH)	MAX TEMP RISE (°F)	LAT (°F)	TURNDOWN		
DOAU-1	5000	1.00 in-wg	5	4500	0.50 in-wg	2	84.0/80.0	77.6/69.1	23.0/18.9	56.7/49.3	277.4	141.5	77.6/69.1	50.8/50.6	161.8	80.7	300.0	243.0	45.0	101.6	12:1	GREENHECK	RVE-85-52C-20I-J-A2

NOTES:
1. SEE ELECTRICAL FOR VOLTAGE REQUIREMENTS. PROVIDE WITH INTEGRAL SINGLE POINT DISCONNECT SWITCH.
2. PROVIDE A DELEGATED DESIGN FOR SEISMIC RESTRAINT.
3. PROVIDE UNIT WITH COATED CONDENSER AND EVAPORATOR COILS FOR CORROSION RESISTANCE.
4. PROVIDE EBTRON AIRFLOW GOLD SERIES MONITORING STATIONS AT THE UNIT'S INTAKE AND EXHAUST.
5. INCLUDE UNIT WITH RECIRCULATION DAMPER.
6. PROVIDE UNIT WITH REFRIGERANT LEAK DETECTION SYSTEM AND CONTROLS TO RUN THE FAN SYSTEM.

NATURAL GAS UNIT HEATER SCHEDULE

TAG	INPUT CAPACITY MBH	MAX OUTPUT CAPACITY MBH	MOUNTING TYPE	BASIS OF DESIGN	MODEL
UH-1	150.0	124.5	WALL MOUNTED	REZNOR	UDXC
UH-2	150.0	124.5	WALL MOUNTED	REZNOR	UDXC

NOTES:
1. PROVIDE UNIT HEATERS WITH WALL MOUNT AND ADJUSTABLE DISCHARGE LOUVERS.
2. PROVIDE UNIT HEATERS WITH TWO STAGE CONTROLS WITH REMOTE WALL MOUNTED THERMOSTAT.
3. PROVIDE UNIT HEATERS WITH STAINLESS STEEL HEAT EXCHANGERS AND BURNERS.

SPLIT-SYSTEM HEAT PUMP UNIT SCHEDULE

INDOOR UNIT ID	OUTDOOR UNIT ID	TOTAL CFM	MOTOR HP	ESP (IN WC)	COOLING CAPACITY						HEATING CAPACITY		SEER	HSPF	AUXILIARY HEATING kW	BASIS OF DESIGN	INDOOR MODEL	OUTDOOR MODEL
					TOTAL MBH	SENS. MBH	ENTERING AIR		LEAVING AIR		TOTAL MBH	HEATING CFM						
							DB °F	WB °F	DB °F	WB °F								
AHU-1	HP-1	1000	1/2	0.75 in-wg	30	24	77 °F	65 °F	56 °F	55 °F	30.0	1000	14.3	9.6	3.6	TRANE	TEM6A0B30H21SC	4TWR4030N

NOTES:
1. SEE ELECTRICAL FOR VOLTAGE REQUIREMENTS.
2. PROVIDE A DELEGATED DESIGN FOR SEISMIC RESTRAINT.
3. PROVIDE THE OUTDOOR UNIT WITH COATED CONDENSER COILS FOR CORROSION RESISTANCE.
4. PROVIDE THE INDOOR UNIT WITH UV LIGHTS.

DUCTLESS MINI-SPLIT SYSTEM SCHEDULE

TAG		RATED MAXIMUM AIRFLOW CFM	COOLING CAPACITY		HEATING CAPACITY	SEER	BASIS OF DESIGN	INDOOR MODEL	OUTDOOR MODEL
INDOOR	OUTDOOR		TOTAL CAPACITY MBH	SENS CAPACITY MBH					
MS-1	MSHP-1	775	24	18.5	26	21.3	MITSUBISHI	TPKA0A0241KA80A	TRUZA0241HA70NA

NOTES:
1. SEE ELECTRICAL FOR VOLTAGE REQUIREMENTS.
2. PROVIDE A DELEGATED DESIGN FOR SEISMIC RESTRAINT.
3. PROVIDE THE OUTDOOR UNIT WITH COATED CONDENSER COILS FOR CORROSION RESISTANCE.

FAN SCHEDULE

TAG	CAPACITY CFM	ESP INCHES WG	FRPM	MOTOR HP	SOUND RATING SONES	TYPE	SYSTEM SERVED	FAN CONTROL	BASIS OF DESIGN	MODEL
EF-1	50	0.50	900	0.02	1.5	CEILING MOUNTED	RESTROOM	LIGHT SWITCH	GREENHECK	SP-B80

NOTES:
1. SEE ELECTRICAL FOR VOLTAGE REQUIREMENTS. PROVIDE ALL FANS WITH INTEGRAL DISCONNECTS.
2. PROVIDE ALL FANS WITH SPEED CONTROLLERS FOR BALANCING.

GRAVITY VENTILATOR SCHEDULE

MARK	CAPACITY CFM	NECK SIZE	NECK VELOCITY FPM	PRESSURE DROP INCHES WG	SYSTEM SERVED	BASIS OF DESIGN	MODEL
GV-1	2000	24"Ø	617	0.067	EXISTING AUTOMOTIVE LAB INTAKE	Greenheck	GRSI

NOTES:
1. PROVIDE VENTILATOR WITH BIRDSCREEN.

AIR DISTRIBUTION SCHEDULE

TAG	MOUNTING TYPE	NECK SIZE	FACE SIZE	DESCRIPTION	BASIS OF DESIGN	MODEL
Supply Air						
A	LAY-IN	6" Ø	24" x 24"	PLAQUE FACE SUPPLY DIFFUSER	PRICE	ASPD
B	LAY-IN	8" Ø	24" x 24"	PLAQUE FACE SUPPLY DIFFUSER	PRICE	ASPD
C	LAY-IN	10" Ø	24" x 24"	PLAQUE FACE SUPPLY DIFFUSER	PRICE	ASPD
D	LAY-IN	12" Ø	24" x 24"	PLAQUE FACE SUPPLY DIFFUSER	PRICE	ASPD
E	SURFACE	36" x 16"	38" x 18"	LOUVERED FACE SUPPLY DIFFUSER	PRICE	610
Return Air						
21	LAY-IN	12" x 12"	24" x 24"	PERFORATED FACE RETURN GRILLE	PRICE	10A
22	LAY-IN	22" x 22"	24" x 24"	PERFORATED FACE RETURN GRILLE	PRICE	10A
23	SURFACE	8" x 8"	10" x 10"	LOUVERED FACE RETURN GRILLE	PRICE	630

NOTES:
1. COORDINATE EXACT LOCATION OF AIR DISTRIBUTION DEVICES AND CEILING TYPE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
2. ALL AIR DISTRIBUTION DEVICES SHALL BE ALUMINUM CONSTRUCTION AND SHALL HAVE BAKED ENAMEL WHITE FINISH UNLESS OTHERWISE NOTED.
3. ALL CEILING DIFFUSERS SHALL BE 4-WAY BLOW UNLESS OTHERWISE NOTED ON DRAWINGS.
4. RUNOUT SIZE SHALL MATCH DIFFUSER NECK SIZE.

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M-002

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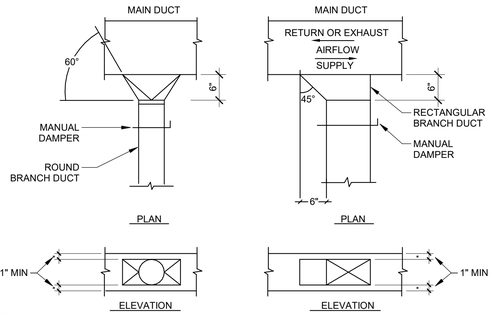
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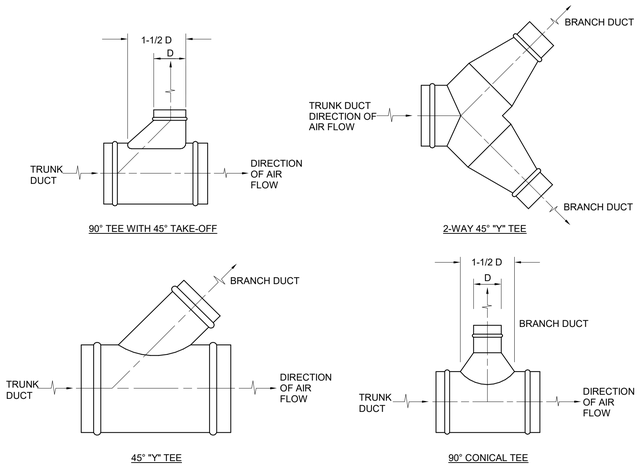


NOTES:

1. CONTRACTOR MAY SUBSTITUTE A MANUFACTURED FITTING FOR THE DETAILED TAKE-OFF ABOVE.
2. TAKE-OFFS IN MEDIUM PRESSURE DUCT SHALL HAVE AN OVERSIZED INTAKE.
3. SPIN-IN FITTINGS WITH INTEGRAL SCOOP AND DAMPER SHALL ONLY BE USED ON LOW PRESSURE DUCT.
4. FITTINGS SHALL BE SCREWED TO THE TRUNK DUCT AND SEALED WITH MASTIC. MASTIC TAPE IS NOT ACCEPTABLE, SEE SPECIFICATIONS.

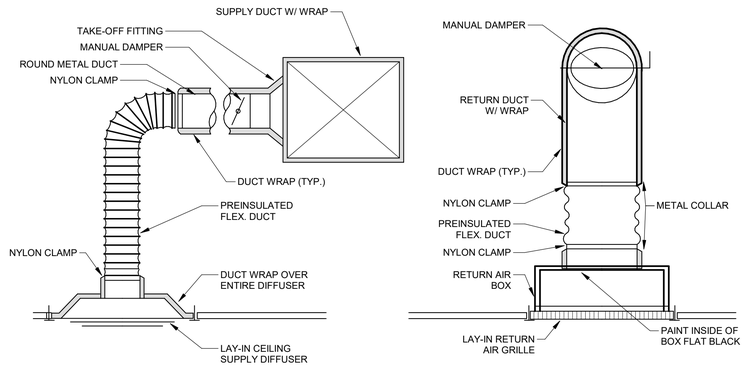
1 TYPICAL DUCT TAKE OFF INSTALLATION DETAIL

M-003 NOT TO SCALE



2 ROUND DUCT BRANCH TAKE OFF DETAIL

M-003 NOT TO SCALE

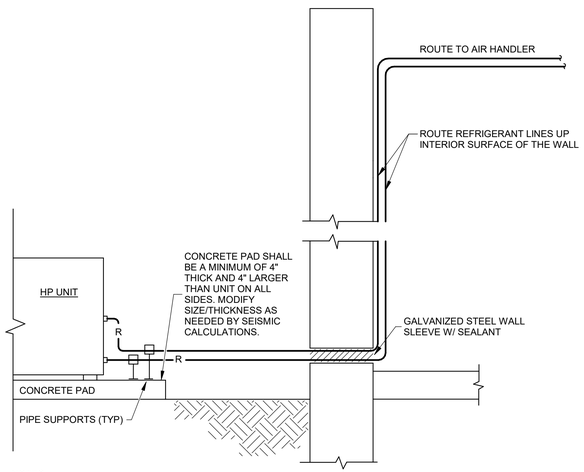


NOTES:

1. INSTALL NYLON CLAMPS ON INNER FLEX DUCT LINER AND OUTER JACKET. TAPE ENDS OF PREINSULATED FLEX. DUCT AT THE DIFFUSER AND THE BRANCH DUCT CONNECTION.
2. RETURN AIR BOX SHALL BE MINIMUM 12" HIGH. RETURN DUCT MAY TAP INTO THE SIDE OF THE BOX A MINIMUM OF 6" ABOVE GRILLE.
3. PROVIDE YOUNG REGULATOR REMOTE DAMPER CONTROLLER FOR EACH DIFFUSER AND GRILLE LOCATED IN AREAS WITH INACCESSIBLE CEILINGS. LOCATE CONTROLLER IN A CONCEALED, ACCESSIBLE LOCATION.

3 TYPICAL DIFFUSER/GRILLE INSTALLATION DETAIL

M-003 NOT TO SCALE

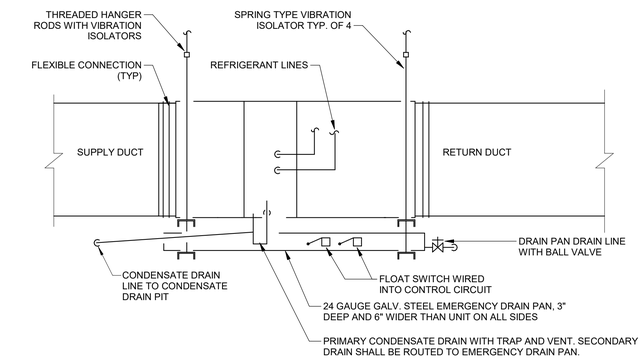


NOTES:

1. ALL PIPING SHALL BE HARD DRAWN COPPER TUBING WITH SOLDERED JOINTS.
2. REFRIGERANT LINES OUTDOORS SHALL BE ROUTED ABOVE GROUND AND WRAPPED WITH ALUMINUM METAL JACKET.

4 HEAT PUMP INSTALLATION DETAIL

M-003 NOT TO SCALE



NOTES:

1. ROUTE DRAIN LINES AS INDICATED ON DRAWINGS. ALL DRAIN LINES SHALL SLOPE AT LEAST 1" PER 10 FT. CONTINUOUSLY. LINES SHALL NOT BE ALLOWED TO RUN ALONG THE CEILING STRUCTURE AND RISE UP AGAIN.
2. PROVIDE HANGING RODS FOR UNITS SUSPENDED FROM STRUCTURE AND SUSPEND EMERGENCY DRAIN PAN FROM UNIT.
3. SUPPORT EMERGENCY DRAIN PAN ON ANGLES OR STRUTS; PAN TO BE EASILY REMOVABLE FOR MAINTENANCE ACCESS

5 HORIZONTAL AHU INSTALLATION DETAIL

M-003 NOT TO SCALE

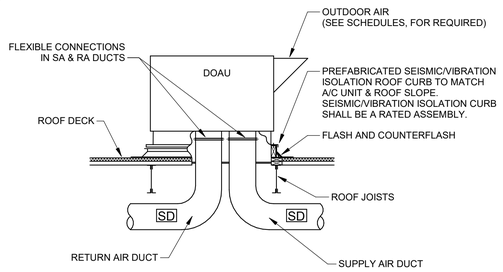
MAXIMUM PIPE/TUBING SUPPORT SPACING										
NOM. SIZE IN.	THRU 3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8
PIPE FT.	7	7	7	9	10	11	12	14	16	17	19
TUBING FT.	5 FT	6	7	8	8	9	10	12	13	14	16
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.											

NOTE:

1. SEE SPECIFICATIONS FOR DETAILED HANGER REQUIREMENTS.

6 MECHANICAL PIPE SUPPORT DETAIL

M-003 NOT TO SCALE

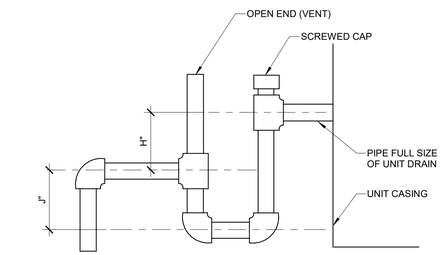


NOTES:

1. PROVIDE EQUIPMENT ROOF CURBS W/ INTEGRAL VIBRATION ISOLATION SPRINGS.
2. CONTRACTOR SHALL PROVIDE 16 OZ. ACOUSTIBLOK BETWEEN OPENING AND BOTTOM OF UNIT FOR SOUND REDUCTION.
3. PROVIDE AND INSTALL 1/2" THICK DUCT LINER IN THE FIRST 10 FEET FROM UNIT ON SUPPLY AND RETURN DUCT. LINER SHALL BE FLEXIBLE ELASTOMERIC.

7 DEDICATED OUTDOOR AIR UNIT INSTALLATION DETAIL

M-003 NOT TO SCALE

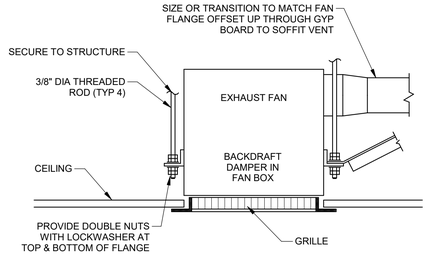


NOTES:

1. LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING.
2. "RUNNING" TYPE TRAPS SHALL BE UNACCEPTABLE.
3. H = TOTAL STATIC FAN PRESSURE (CONFIRM TSP WITH EQUIPMENT PROVIDED).
4. J = H/2 (MINIMUM)

8 CONDENSATE DRAIN TRAP INSTALLATION DETAIL

M-003 NOT TO SCALE



9 TYPICAL EXHAUST FAN DETAIL

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M-003

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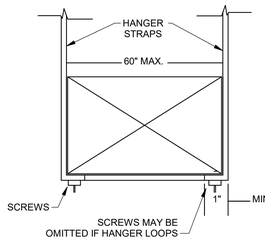
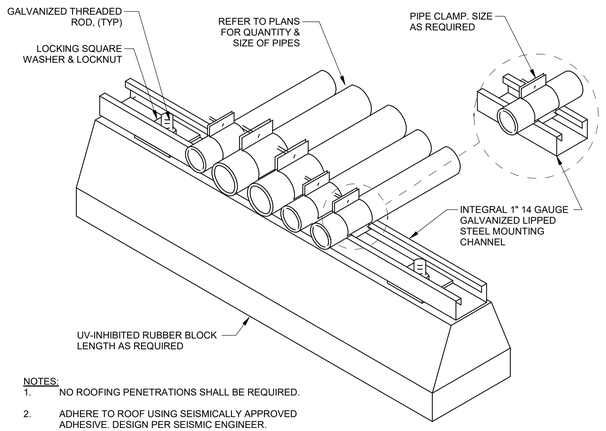


TABLE 4-1 RECTANGULAR DUCT HANGERS MINIMUM SIZE								
MAXIMUM HALF OF DUCT PERIMETER	PAIR AT 10 FT. SPACING		PAIR AT 8 FT. SPACING		PAIR AT 5 FT. SPACING		PAIR AT 4FT. SPACING	
	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD
P/2= 30"	1" X 22 GA.	10 GA. (.135")	1" X 22 GA.	10 GA. (.135")	1" X 22 GA.	12 GA. (.106")	1" X 22 GA.	12 GA. (.106")
P/2= 72"	1" X 18 GA.	3/8"	1" X 20 GA.	1/4"	1" X 22 GA.	1/4"	1" X 22 GA.	1/4"
P/2= 96"	1" X 16 GA.	3/8"	1" X 18 GA.	3/8"	1" X 20 GA.	3/8"	1" X 22 GA.	1/4"
P/2= 120"	1-1/2"X16GA.	1/2"	1" X 16 GA.	3/8"	1" X 18 GA.	3/8"	1" X 20 GA.	1/4"
P/2= 168"	1-1/2"X16GA.	1/2"	1-1/2"X16GA.	1/2"	1" X 16 GA.	3/8"	1" X 18 GA.	3/8"
P/2= 192"	NOT GIVEN	1/2"	1-1/2"X16GA.	1/2"	1" X 16 GA.	3/8"	1" X 16 GA.	3/8"
P/2=193" UP	SPECIAL ANALYSIS REQUIRED							

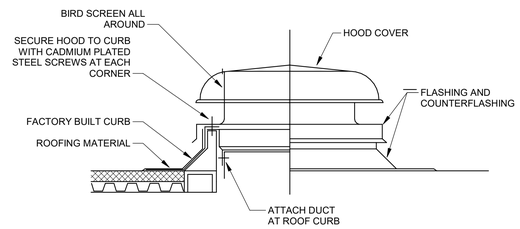
WHEN STRAPS ARE LAP JOINED USE THESE MINIMUM FASTENERS	SINGLE HANGER MAXIMUM ALLOWABLE LOAD	
	STRAP	WIRE OR ROD (DIA.)
1" X 18,20,22 GA. - TWO #10 OR ONE 1/4" BOLT 1" X 16 GA. - TWO 1/4" DIA. 1-1/2" X 16 GA. -TWO 3/8" DIA. PLACE FASTENERS IN SERIES, NOT SIDE BY SIDE.	1" X 22 GA. - 260 LBS. 1" X 20 GA. - 320 LBS. 1" X 18 GA. - 420 LBS. 1" X 16 GA. - 700 LBS. 1-1/2 " X 16 GA. - 1100 LBS.	1/4"-270 LBS. 3/8"-680 LBS. 1/2"-1250 LBS. 5/8"-2000 LBS. 3/4"-3000 LBS.

1 M-004 SUPPORT DETAIL
NOT TO SCALE



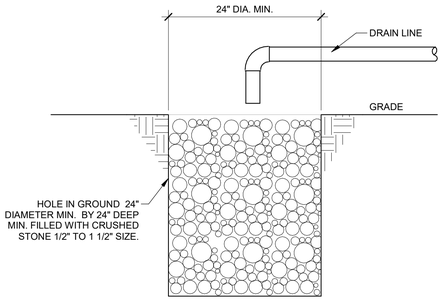
NOTES:
1. NO ROOFING PENETRATIONS SHALL BE REQUIRED.
2. ADHERE TO ROOF USING SEISMICALLY APPROVED ADHESIVE. DESIGN PER SEISMIC ENGINEER.

4 M-004 ROOF PIPING SUPPORT DETAIL
NOT TO SCALE



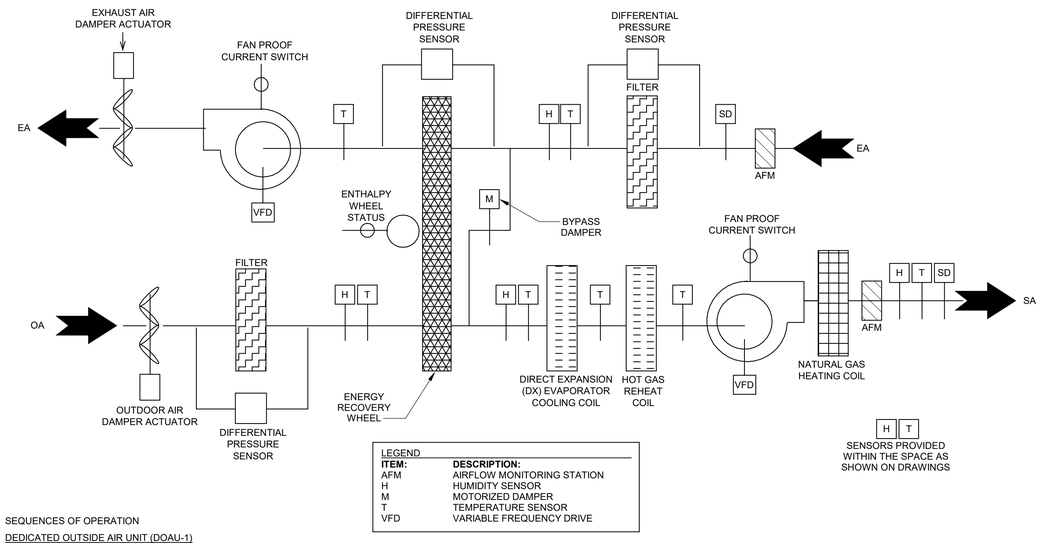
NOTE:
1. COORDINATE ROOF WORK WITH ARCHITECTURALPLANS AND ROOFING CONTRACTOR.

2 M-004 INTAKE HOOD INSTALLATION DETAIL
NOT TO SCALE



NOTES:
1. COVER WITH LANDSCAPE AFTER INSPECTION IS COMPLETED.
2. CONTRACTOR SHALL VERIFY THAT THE CONDENSATE DRAIN LINE IS IN WORKING ORDER BY RUNNING WATER DOWN THRU THE DRAIN LINE FROM THE POINT OF THE COIL CONNECTION.
3. DRAIN PAN DRAIN LINE SHALL TERMINATE 6" ABOVE FINISHED GRADE OVER TOP OF THE DRAIN PIT.

3 M-004 CONDENSATE DRAIN PIT DETAIL
NOT TO SCALE



LEGEND	
ITEM:	**DESCRIPTION:**
AFM	AIRFLOW MONITORING STATION
H	HUMIDITY SENSOR
M	MOTORIZED DAMPER
T	TEMPERATURE SENSOR
VFD	VARIABLE FREQUENCY DRIVE

SEQUENCES OF OPERATION

DEDICATED OUTSIDE AIR UNIT (DOAU-1)

MICROPROCESSOR CONTROLLER: CONTROLLER SHALL BE PROVIDED WITH REQUIRED SENSORS AND PROGRAMMING FOR DOAU. CONTROLLER SHALL BE FACTORY PROGRAMMED, MOUNTED AND TESTED, CONTROLLER SHALL HAVE A LCD READOUT FOR CHANGING SET POINTS AND MONITORING UNIT OPERATION.

UNIT START COMMAND: OUTDOOR AIR DAMPER ACTUATOR IS POWERED, EXHAUST FAN STARTS AFTER (ADJ.) DELAY, SUPPLY FAN STARTS AFTER (ADJ.) DELAY, AND TEMPERING OPTIONS AND ENERGY WHEEL OPTION TO FUNCTION AS DESCRIBED BELOW.

UNIT STOP COMMAND: SUPPLY FAN, EXHAUST FAN, ENERGY WHEEL, AND TEMPERING OPTIONS DE-ENERGIZE. OUTDOOR AIR DAMPER ACTUATOR IS SPRING RETURN TO CLOSED.

OCCUPIED/UNOCCUPIED MODES SHALL BE BASED ON A 7-DAY TIME CLOCK INTERNAL TO THE CONTROLLER. SCHEDULE TO BE SET BY THE END USER. WHEN A USER INITIATES AN OVERRIDE INPUT, THE CONTROLLER WILL SWITCH FROM UNOCCUPIED TO OCCUPIED MODE. THE CONTROLLER WILL RETURN TO THE SCHEDULED OCCUPIED/UNOCCUPIED MODE AFTER THE OVERRIDE TIME HAS EXPIRED. IF INTERNAL TIME CLOCK IS DISABLED, A REMOTE CONTACT OR BMS CAN CONTROL THE OCCUPIED/UNOCCUPIED MODE.

OCCUPIED MODE: DAMPER CONTROL PER BELOW, SUPPLY/EXHAUST FAN ON, COOLING/HEATING PER BELOW.

UNOCCUPIED MODE: SUPPLY/EXHAUST FANS OFF, TEMPERING OPTIONS OFF, OUTDOOR/RETURN DAMPERS OFF.

DURING UNOCCUPIED MODE, IF INDOOR HUMIDITY RISES ABOVE THE SETPOINT, THE UNIT SHALL ENTER DEHUMIDIFICATION MODE.

SUPPLY/EXHAUST FAN SEQUENCE: FANS SHALL RUN AT CONSTANT SPEED. SPEEDS NEED TO BE SET DURING TEST AND BALANCE OF THE UNIT. VFD'S SHALL BE PROVIDED ON FANS FOR BALANCING PURPOSES ONLY.

COOLING SEQUENCE: WHEN THE SPACE TEMPERATURE RISES ABOVE THE OCCUPIED COOLING SETPOINT FROM THE SPACE THERMOSTAT, THE MODE SHALL BE COOLING. THE MECHANICAL COOLING WILL BE LOCKED OUT WHEN THE OUTSIDE AIR IS < 55°F (ADJ.). THE CONTROLLER WILL PROVIDE A MODULATING SIGNAL FOR COOLING. FROM 1-50%, THE DIGITAL SCROLL WILL BE CONTROLLED TO MAINTAIN THE DISCHARGE TEMPERATURE. FROM 50-100% THE SECOND STAGE WILL BE ON IN COMBINATION WITH THE DIGITAL SCROLL COMPRESSOR TO MAINTAIN THE DISCHARGE TEMPERATURE.

MODULATING HOT GAS REHEAT SEQUENCE: DURING DEHUMIDIFICATION THE MODULATING HGRH IS CONTROLLED TO MAINTAIN THE SUPPLY TEMPERATURE SETPOINT. THE CONTROLLER WILL MODULATE THE HOT GAS REHEAT VALVE WITH A 0-10 V SIGNAL TO MAINTAIN THE SUPPLY TEMPERATURE SER POINT (ADJ.).

HEATING SEQUENCE: WHEN THE SPACE TEMPERATURE FALLS BELOW THE OCCUPIED HEATING SETPOINT FROM THE SPACE THERMOSTAT, THE MODE SHALL BE HEATING. THE HEATING WILL BE LOCKED OUT WHEN THE OUTSIDE AIR IS > 80°F (ADJ.).

FREEZE PROTECTION: IF THE SUPPLY AIR TEMPERATURE DROPS BELOW 40°F (ADJ.) FOR 300 SECONDS (ADJ.), THE CONTROLLER WITH DE-ENERGIZE THE UNIT AND ACTIVATE AN ALARM OUTPUT.

SMOKE DETECTION: UPON DETECTION OF SMOKE VIA THE DUCT MOUNTED SMOKE DETECTORS THE UNIT CONTROLLER SHALL SEND AN ALARM SIGNAL TO THE FIRE ALARM CONTROL PANEL AND SHUTDOWN THE UNIT. UNIT SHUTDOWN TO FOLLOW THE UNIT STOP COMMAND STEPS.

ALARMS: DIRTY WHEEL ALARM, DIRTY FILTER ALARM, SUPPLY/EXHAUST AIR ALARM, TEMPERATURE SENSOR ALARM, AND DX COOLING ALARM.

5 M-004 DOAU SEQUENCE OF CONTROL
NOT TO SCALE

PMH CROFT
ARCHITECTS & ENGINEERS
1300 Professional Drive, Suite 201
Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
www.pmhcroft.com

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
DWG, INC. CONSULTING ENGINEERS No.C03649

SOUTH CAROLINA PROFESSIONAL ENGINEER
No.30241
09/29/2025
WILLIAM DEAN BILLARD, II

DWG CONSULTING ENGINEERS
EMPLOYEE OWNED
1009 Anna Knapp Blvd., Suite 200
Mt. Pleasant, SC 29464
843-849-1141

OWNER
HORRY GEORGETOWN TECHNICAL COLLEGE
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

HORRY GEORGETOWN TECHNICAL COLLEGE

PROJECT NAME
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CONWAY,SC 29526

H59-N302-CB

No.	Date	Description
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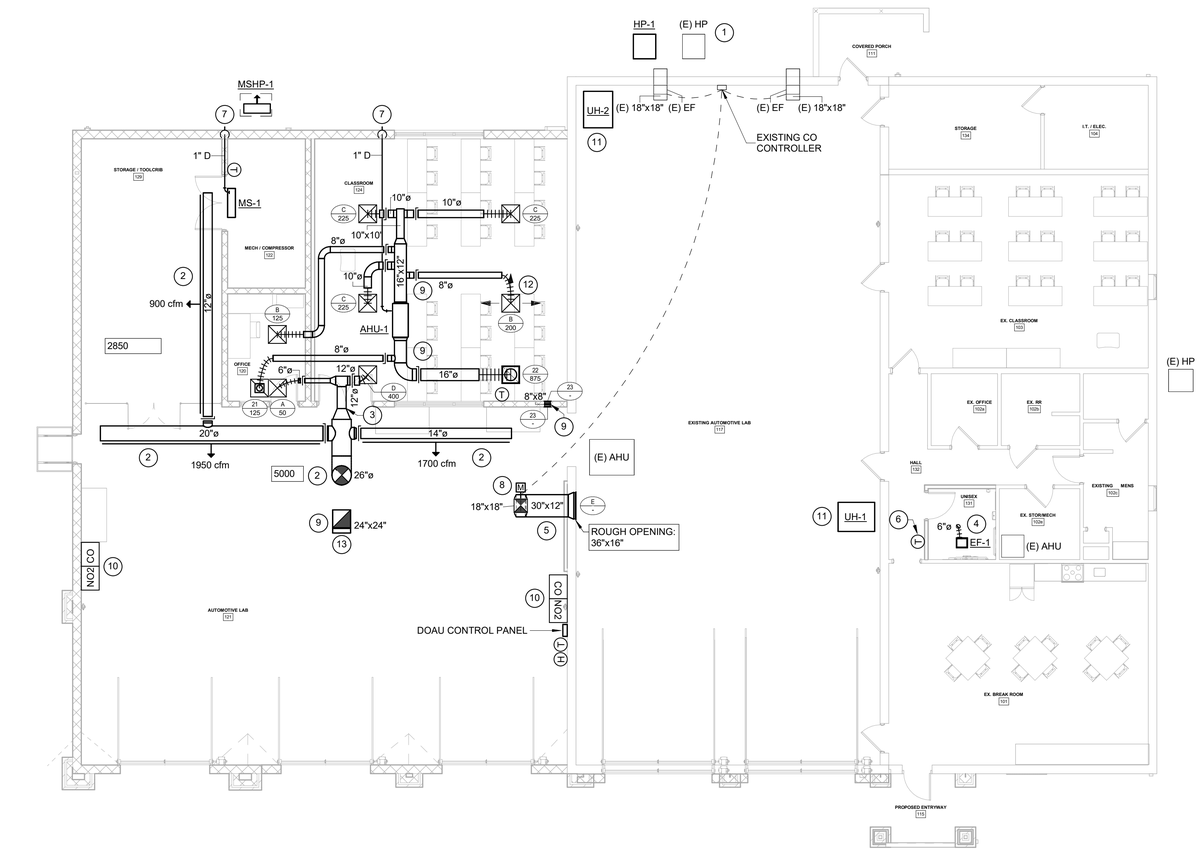
PROJECT NUMBER
2025-2006

DRAWN: ACR
CHECKED: WDB

SHEET TITLE
MECHANICAL DETAILS & CONTROLS

SHEET NO.
M-004

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1 M-101 BASE BID - LEVEL 1 - MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

RENOVATION KEYNOTES

1. RELOCATE THE EXISTING OUTDOOR UNIT TO THIS LOCATION. ROUTE NEW REFRIGERANT PIPING ABOVE GROUND WITH FLEXIBLE ELASTOMERIC INSULATION AND ALUMINUM JACKET TO THE EXTERIOR OF THE BUILDING. ROUTE NEW REFRIGERANT PIPING FROM RELOCATED OUTDOOR UNIT TO THE ASSOCIATED INDOOR UNIT. RECHARGE NEW REFRIGERANT LINES AND EXISTING UNITS. INSTALL THE RELOCATED UNIT AND ALL REFRIGERANT LINES PER THE MANUFACTURER'S INSTRUCTIONS. SEE HEAT PUMP INSTALLATION DETAIL FOR MORE INFORMATION.
2. SUPPLY DUCTWORK TO BE EXPOSED FABRIC DUCT IN THE AUTOMOTIVE BAY AND STORAGE/TOOLCRIB AREA. PROVIDE WITH ADJUSTABLE NOZZLES IN THE AUTOMOTIVE LAB AND FIXED NOZZLES IN THE STORAGE/TOOLCRIB TO PROVIDE ADEQUATE DISTRIBUTION. BOD: DUCTSOX WITH SKELECORE INTERNAL FRAMEWORK.
3. TRANSITION TO SINGLE WALL METAL DUCT PER SPECIFICATIONS AT WALL PENETRATION.
4. EXHAUST DUCT ROUTED TO ROOF VENT ABOVE. COORDINATE ROOF PENETRATION AND WATERPROOFING/FLASHING.
5. INTAKE AIR DUCT ROUTED TO ROOFTOP VENTILATOR ABOVE. ROUTE HORIZONTAL DUCT RUN AS HIGH AS POSSIBLE TIGHT TO STRUCTURE IN THE NEW AUTOMOTIVE LAB.
6. RELOCATE AND RECONNECT EXISTING THERMOSTAT IN THIS APPROXIMATE LOCATION.
7. PROVIDE CONDENSATE DRAIN PIT IN THIS LOCATION. SEE CONDENSATE DRAIN PIT DETAIL FOR MORE INFORMATION.
8. PROVIDE MOTORIZED CONTROL DAMPER AND CONNECT TO THE EXISTING EXHAUST FAN SYSTEM SENSOR AND CONTROLLER.
9. PROVIDE DUCTS WITH FLEXIBLE ELASTOMERIC DUCT LINER WHERE SHOWN.
10. PROVIDE COMBINATION CO AND NO2 SENSORS WITH ALARMS. THE ALARM LEVELS SHALL BE THE FOLLOWING: CO PPM DETECTED - 0 TO 50 = NONE, 50 TO 200 = LOW, AND >200 = HIGH; NO2 PPM DETECTED - 0 TO 0.1 = NONE, 0.1 TO 1 = LOW, AND >1 = HIGH. THE NUMBER AND LOCATION OF DETECTORS SHALL BE PER THE MANUFACTURER'S REQUIREMENTS AND COVERAGE DATA. THE SENSORS SHALL ACTIVATE DOAU-1 INTO OCCUPIED MODE IN THE EVENT THE SENSORS DETECT NOXIOUS GAS DURING UNOCCUPIED HOURS. BOD: BRASCH GSE-NCM-LR OR APPROVED EQUAL.
11. PROVIDE NEW NATURAL GAS UNIT HEATER AND CONNECT TO EXISTING VENT.
12. PROVIDE DIFFUSER WITH THROAT INSERT.
13. RETURN DUCT FROM DOAU-1 TO BE OPEN WITH AN ELBOW TO OBSTRUCT DIRECT VIEW INTO UNIT ABOVE.

GENERAL NOTES

PMH CROFT
ARCHITECTS & ENGINEERS
1300 Professional Drive, Suite 201
Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
www.pmhcroft.com

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION DWG, INC. CONSULTING ENGINEERS No.C03649

SOUTH CAROLINA No.30241 09/24/2025 WILLIAM DEAN BILLARD, II

DWG CONSULTING ENGINEERS EMPLOYEE OWNED
1009 Anna Knapp Blvd., Suite 200
Mt. Pleasant, SC 29464
843-849-1141

OWNER
HORRY GEORGETOWN TECHNICAL COLLEGE
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

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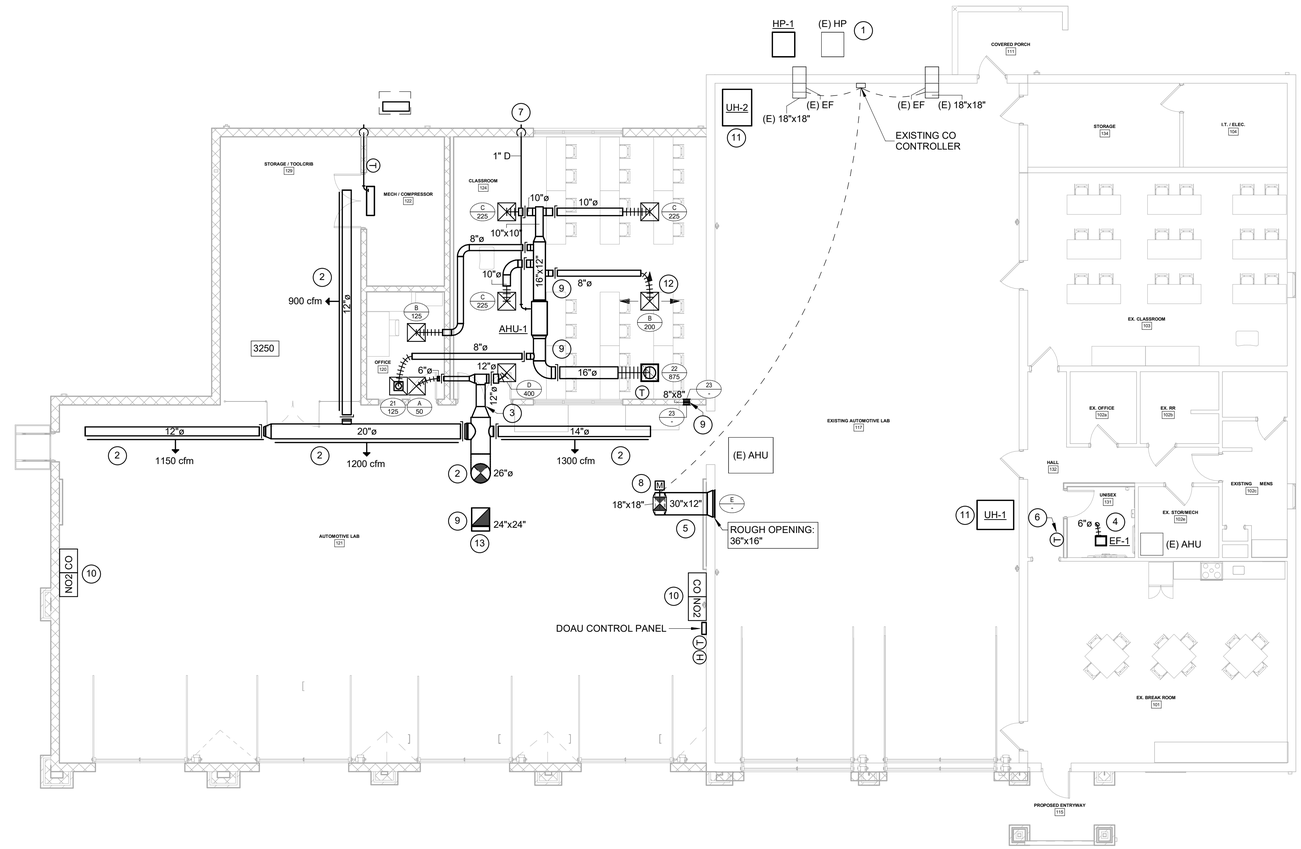
PROJECT NUMBER
2025-2006

DRAWN: ACR
CHECKED: WDB

SHEET TITLE
BASE BID - LEVEL 1 MECHANICAL PLAN

SHEET NO.
M-101

N
GRAPHIC SCALE
0 4' 8' 16' 32'
Scale: 1/8"= 1'-0"



1 M-101A ALTERNATE 1 - LEVEL 1 - MECHANICAL PLAN

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

RENOVATION KEYNOTES

1. RELOCATE THE EXISTING OUTDOOR UNIT TO THIS LOCATION. ROUTE NEW REFRIGERANT PIPING ABOVE GROUND WITH FLEXIBLE ELASTOMERIC INSULATION AND ALUMINUM JACKET TO THE EXTERIOR OF THE BUILDING. ROUTE NEW REFRIGERANT PIPING FROM RELOCATED OUTDOOR UNIT TO THE ASSOCIATED INDOOR UNIT. RECHARGE NEW REFRIGERANT LINES AND EXISTING UNITS. INSTALL THE RELOCATED UNIT AND ALL REFRIGERANT LINES PER THE MANUFACTURER'S INSTRUCTIONS. SEE HEAT PUMP INSTALLATION DETAIL FOR MORE INFORMATION.
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13. RETURN DUCT FROM DOAU-1 TO BE OPEN WITH AN ELBOW TO OBSTRUCT DIRECT VIEW INTO UNIT ABOVE.

GENERAL NOTES

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GRAPHIC SCALE
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CONWAY, SOUTH CAROLINA 29526

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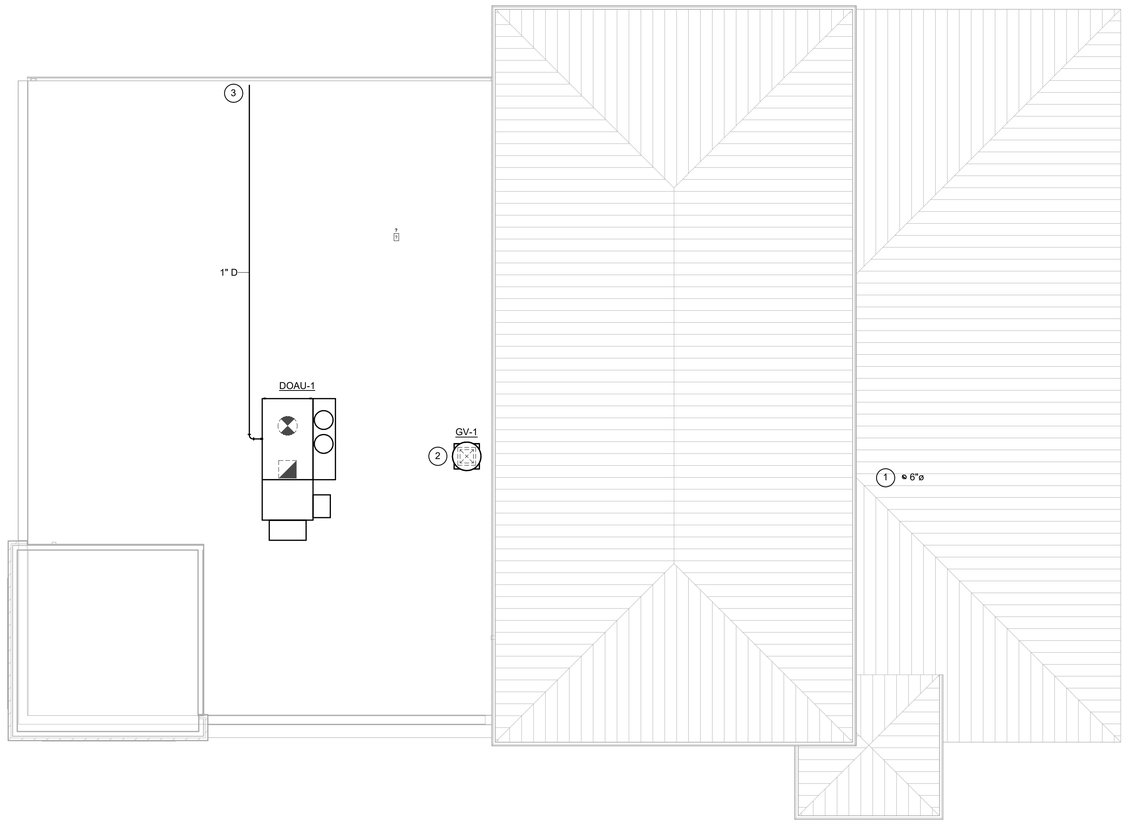
PROJECT NUMBER
2025-2006

DRAWN: ACR
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SHEET TITLE
ALTERNATE 1 - LEVEL 1 MECHANICAL PLAN (4TH BAY)

SHEET NO.
M-101A

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1 M-201 BASE BID - ROOF LEVEL - MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

RENOVATION KEYNOTES

1. PROVIDE EXHAUST AIR ROOF VENT WITH BIRDSCREEN FOR RESTROOM EXHAUST.
2. PROVIDE ROOFTOP VENTILATOR TO SERVE THE EXISTING AUTOMOTIVE LAB.
3. DISCHARGE CONDENSATE DRAIN LINE WITHIN 6 INCHES OF GUTTER.

GENERAL NOTES

GRAPHIC SCALE
0 4' 8' 16' 32'
Scale: 1/8"= 1'-0"
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1300 Professional Drive, Suite 201
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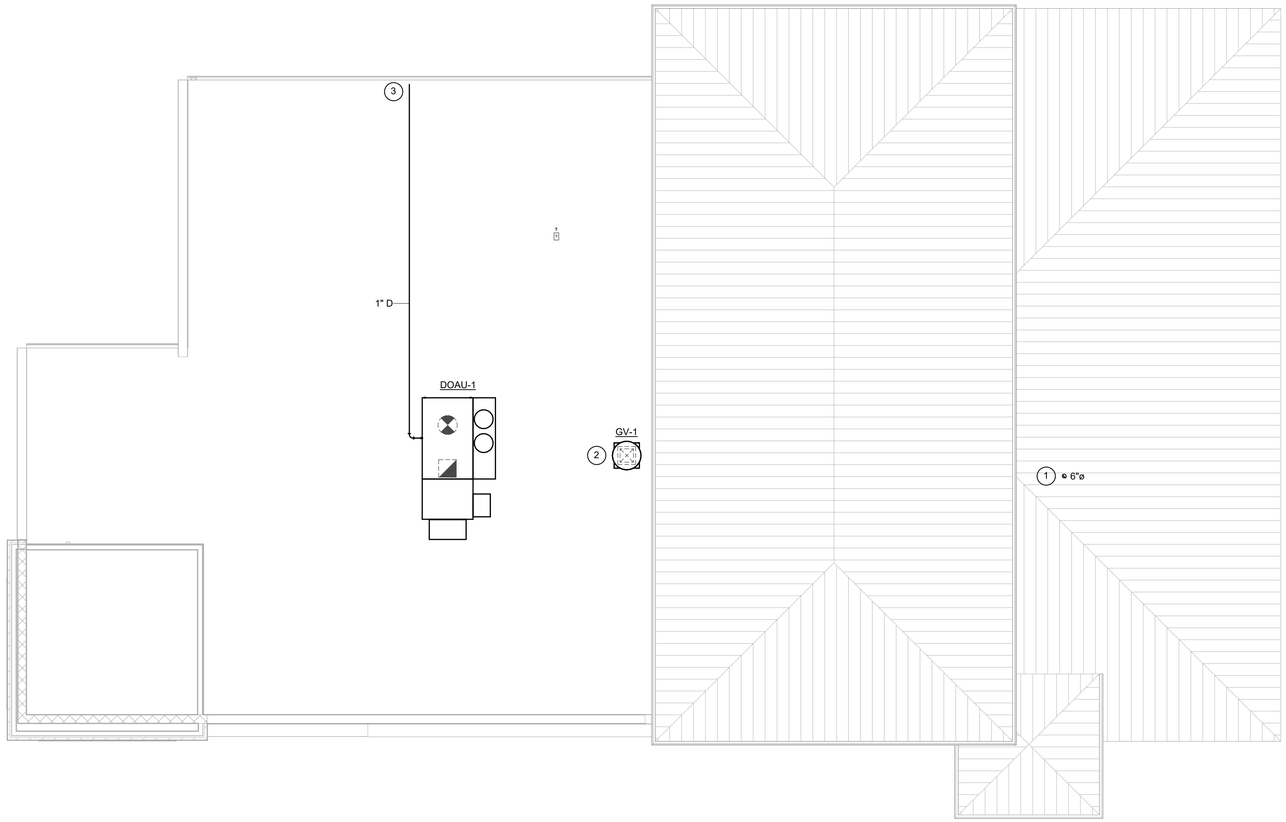
SHEET TITLE
BASE BID - ROOF LEVEL MECHANICAL PLAN

SHEET NO.
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0 1/2" 1" 2" 3"



1 M-201A ALTERNATE 1 - ROOF LEVEL - MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

RENOVATION KEYNOTES

1. PROVIDE EXHAUST AIR ROOF VENT WITH BIRDSCREEN FOR RESTROOM EXHAUST.
2. PROVIDE ROOFTOP VENTILATOR TO SERVE THE EXISTING AUTOMOTIVE LAB.
3. DISCHARGE CONDENSATE DRAIN LINE WITHIN 6 INCHES OF GUTTER.

GENERAL NOTES

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1009 Anna Knapp Blvd., Suite 200
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2050 HIGHWAY 501 EAST
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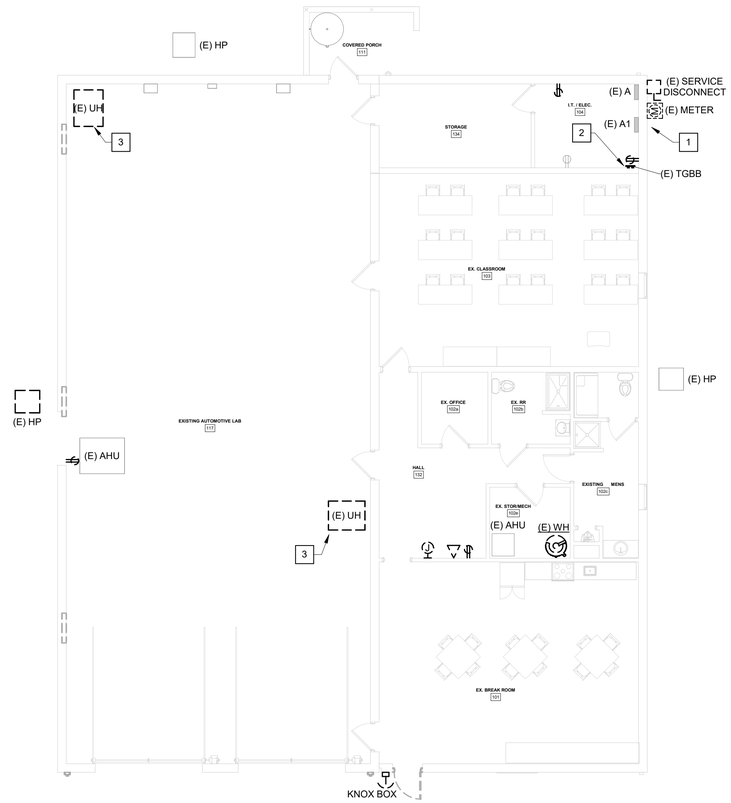
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SHEET TITLE
ALTERNATE 1 - ROOF LEVEL MECHANICAL PLAN (4TH BAY)

SHEET NO.
M-201A

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1 ED-101 BASE BID - LEVEL 1 - POWER & TELECOM DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

DEMOLITION KEYNOTES

1. DEMOLISH EXISTING METER,CT CABINET, SERVICE DISCONNECT, AND ABANDONED METER CAN.
2. ELECTRICALLY DISCONNECT EXISTING TGBB AND STORE FOR RE-USE IN RENOVATION.
3. ELECTRICALLY DISCONNECT CAP AND PROTECT FOR USE WITH REPLACEMENT HEATER.

GENERAL NOTES

1. MAINTAIN CIRCUIT CONTINUITY FOR CIRCUITS WHERE DEVICES ARE DEMOLISHED BUT THE ENTIRE CIRCUIT IS NOT.
2. WHERE DEVICES ARE REMOVED IN WALLS THAT ARE EXISTING TO REMAIN, PATCH WALL TO MATCH EXISTING FINISH.

N

GRAPHIC SCALE
0 8' 16' 32' 64'
Scale: 1/16" = 1'-0"

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Mytle Beach, South Carolina 29577
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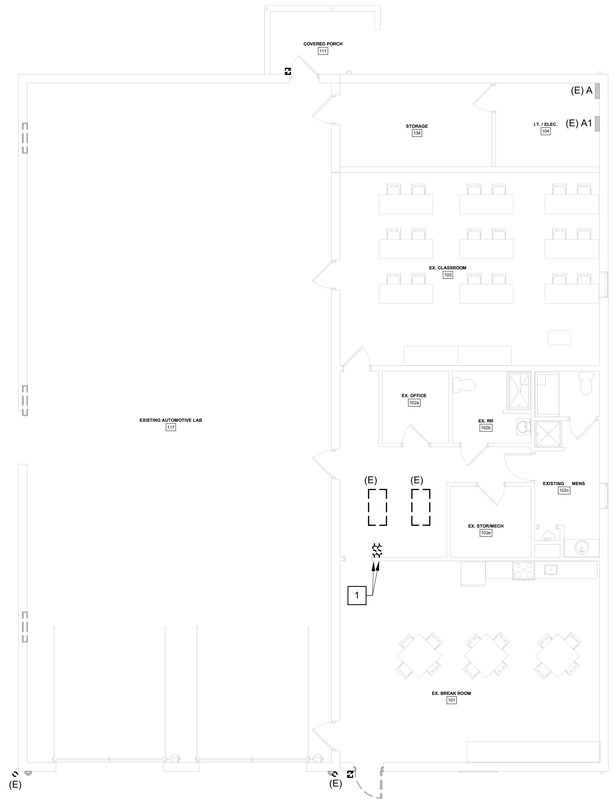
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PROJECT NUMBER
2025-2006

DRAWN: AMH
CHECKED: MHS

SHEET TITLE
BASE BID - LEVEL 1 POWER & TELECOM DEMOLITION PLAN

SHEET NO.
ED-101



1 ED-201 BASE BID - LEVEL 1 - LIGHTING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

DEMOLITION KEYNOTES

1 DEMOLISH SWITCH BACK TO CEILING SPACE & CAP WIRING FOR EXTENSION TO NEW LOCATION IN NEW WALL. IF SWITCHES ARE NOT IN CONFLICT WITH NEW BATHROOM CONSTRUCTION THEN SWITCHES SHALL REMAIN.

GENERAL NOTES

1. MAINTAIN CIRCUIT CONTINUITY FOR CIRCUITS WHERE DEVICES ARE DEMOLISHED BUT THE ENTIRE CIRCUIT IS NOT.
2. WHERE DEVICES ARE REMOVED IN WALLS THAT ARE EXISTING TO REMAIN, PATCH WALL TO MATCH EXISTING FINISH.

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HORRY GEORGETOWN TECHNICAL COLLEGE
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

HORRY GEORGETOWN TECHNICAL COLLEGE

PROJECT NAME

HGTC AUTOMOTIVE TECHNOLOGY BLDG. 1400 EXPANSION

CONWAY,SC 29526

H59-N302-CB

No.	Date	Description
1	2025-09-24	OSE COMMENTS
ISSUANCE		

PROJECT NUMBER
2025-2006

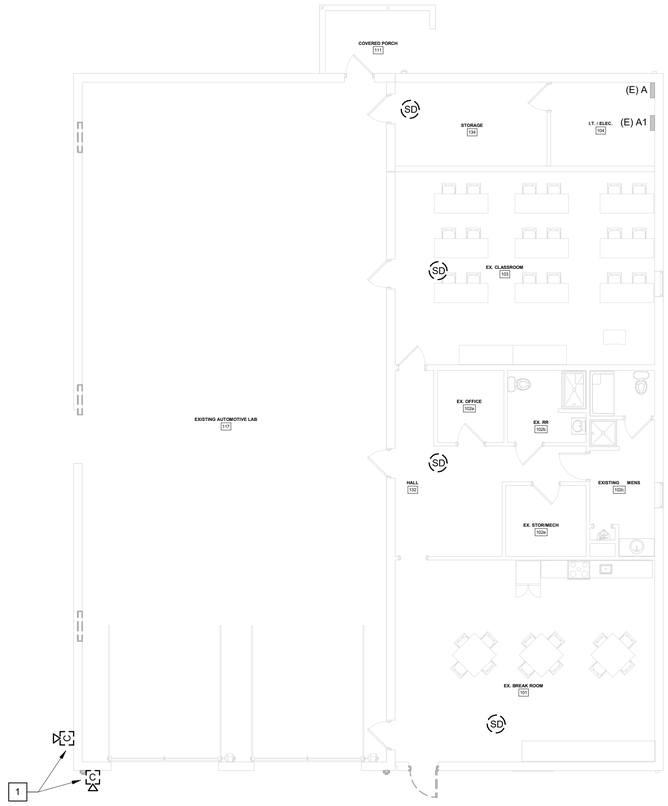
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SHEET TITLE
BASE BID - LEVEL 1 LIGHTING DEMOLITION PLAN

SHEET NO.
ED-201

THIS SHEET PLOTS ON 24"x36" ARCH D
0 1/2" 1" 2" 3"

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1 ED-301 BASE BID - LEVEL 1 - SYSTEMS DEMOLITION PLAN

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

DEMOLITION KEYNOTES

1 ELECTRICALLY DISCONNECT EXISTING CAMERA AND STORE FOR RE-USE IN RENOVATION. DEMOLISH BOX AND CONDUIT BACK TO SOURCE.

GENERAL NOTES

1. MAINTAIN CIRCUIT CONTINUITY FOR CIRCUITS WHERE DEVICES ARE DEMOLISHED BUT THE ENTIRE CIRCUIT IS NOT.
2. WHERE DEVICES ARE REMOVED IN WALLS THAT ARE EXISTING TO REMAIN, PATCH WALL TO MATCH EXISTING FINISH.
3. REGARDLESS IF INDICATED ON PLANS, EVERY FIRE ALARM DEVICE, COMPONENT AND ACCESSORIES TO THE FIRE ALARM SYSTEM SHALL BE DEMOLISHED IN ITS ENTIRETY.

GRAPHIC SCALE

0 8' 16' 32' 64'

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

N

PMH CROFT
ARCHITECTS & ENGINEERS
1300 Professional Drive, Suite 201
Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
www.pmhcroft.com

DWG CONSULTING ENGINEERS EMPLOYEE OWNED
1009 Anna Knapp Blvd., Suite 200
Mt. Pleasant, SC 29464
843-849-1141

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THIS SHEET PLOTS ON 24"X36" ARCH D
3" 2" 1" 1/2" 0

ELECTRICAL SYSTEMS SEISMIC REQUIREMENTS

PER IBC-2021/ASCE 7-16

A. PER THE 2021 INTERNATIONAL BUILDING CODE, MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT AND COMPONENTS, INCLUDING THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED FOR SEISMIC FORCES IN ACCORDANCE WITH CHAPTER 13 OF ASCE 7-16.

B. EXTERIOR EQUIPMENT (INCLUDING ROOF CURBS, RAILS, SUPPORTS) EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH CHAPTER 26 TO 29 OF ASCE 7-16.

C. WHERE DESIGN FOR SEISMIC AND WIND LOADS IS REQUIRED, THE MORE DEMANDING FORCE MUST BE USED.

D. REFERENCE THE STRUCTURAL DRAWINGS FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY, WIND SPEEDS, ETC.

E. USE THE TABLE BELOW TO DETERMINE SEISMIC RESTRAINT REQUIREMENTS FOR EACH COMPONENT.

F. FOR ALL COMPONENTS REQUIRING SEISMIC RESTRAINT, THE COMPONENT SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL REGISTERED IN THE STATE THE JOB IS LOCATED. SUBMITTALS MUST INCLUDE STAMPED AND SIGNED DRAWINGS AND CALCULATIONS.

G. WHERE SEISMIC RESTRAINT IS REQUIRED, HOUSEKEEPING PADS NEEDED FOR THE INSTALLATION OF EQUIPMENT UNDER THIS CONTRACT MUST BE DESIGNED BY THE SEISMIC ENGINEER. DO NOT POUR ANY HOUSEKEEPING PADS PRIOR TO THE RECEIPT OF THE APPROVED SEISMIC SUBMITTAL.

H. SEISMIC RESTRAINTS FOR DUCTWORK, PIPING, CONDUIT, CABLE TRAYS AND BUS DUCT MUST BE SHOWN ON LAYOUT DRAWINGS SHOWING SPECIFIC RESTRAINT LOCATIONS ALONG WITH ACCOMPANYING DETAILS AND CALCULATIONS.

ELECTRICAL COMPONENT IMPORTANCE FACTOR (Ip) DESIGNATION

Ip = 1.0	Ip = 1.5
• ALL ASSOCIATED ELECTRICAL WORK UNLESS NOTED OTHERWISE	• EMERGENCY LIGHTS • FIRE ALARM • EXIT LIGHTS

SEISMIC DESIGN CATEGORIES D,E,F

	COMPONENT IMPORTANCE FACTOR (Ip)			
	1.0		1.5	
COMPONENT IDENTIFICATION	SEISMIC RESTRAINT REQUIREMENT	NOTES	SEISMIC RESTRAINT REQUIREMENT	NOTES
ROOF MOUNTED	RESTRAIN ALL	1	RESTRAIN ALL	-
FLOOR MOUNTED	RESTRAIN ALL	1,2	RESTRAIN ALL	-
WALL MOUNTED	RESTRAIN ALL	1,2	RESTRAIN ALL	-
COMPONENT SUPPORTS	RESTRAIN ALL	1	RESTRAIN ALL	-
SUSPENDED EQUIPMENT	RESTRAIN ALL	1	RESTRAIN ALL	-
SINGLE CONDUIT	RESTRAIN IF ≥ 2.5"	3	RESTRAIN IF ≥ 2.5"	3
CABLE TRAY/BUS DUCT TRAPEZED CONDUIT	DO NOT DELETE ON TRAPEZE > 2.5" RESTRAIN IF TOTAL WEIGHT OF SUSPENDED COMPONENT > 10 LBS/FT	3	RESTRAIN IF ANY CONDUIT ON TRAPEZE ≥ 2.5" RESTRAIN IF TOTAL WEIGHT OF SUSPENDED COMPONENT > 10 LBS/FT	3
COMPONENT CERTIFICATION	NOT REQUIRED	-	REQUIRED	5
PENDANT, LAY-IN AND CAN LIGHTS	REQUIRED	4	REQUIRED	4

NOTES:

1. EQUIPMENT 20 LBS. OR LESS IS EXEMPT IF THE COMPONENT IS POSITIVELY ATTACHED TO THE STRUCTURE AND FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.
2. RESTRAINTS ARE NOT REQUIRED IF THE COMPONENT WEIGHS 400 LBS. OR LESS, IS MOUNTED WITH THE CENTER MASS AT 4' OR LESS ABOVE A FLOOR, IS POSITIVELY ATTACHED TO THE STRUCTURE, AND HAS FLEXIBLE CONNECTIONS BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.
3. RESTRAINT IS NOT REQUIRED IF THE CONDUIT IS SUPPORTED BY HANGERS AND EACH HANGER IN THE RUN IS 12" IN. OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE SUPPORTING STRUCTURE. WHERE PIPES ARE SUPPORTED ON A TRAPEZE, THE TRAPEZE SHALL BE SUPPORTED BY HANGERS HAVING A LENGTH OF 12" IN. OR LESS. WHERE ROD HANGERS ARE USED, THEY SHALL BE EQUIPPED WITH SWIVELS, EYE NUTS OR OTHER DEVICES TO PREVENT BENDING IN THE ROD.
4. THE RESTRAINT OF PENDANT, LAY-IN AND CAN LIGHTS IS ADDRESSED IN ASTM C636 AND E580.
5. COMPONENT CERTIFICATION MUST BE SUPPLIED BY THE EQUIPMENT MANUFACTURER AT TIME OF SUBMITTAL FOR REVIEW BY ENGINEER OF RECORD.

GENERAL FIRST RESPONDER RADIO SYSTEM NOTES

1. PROVIDE AN IN-BUILDING PUBLIC SAFETY RADIO ENHANCEMENT SYSTEM PER IFC 510 (2018) AND INSTALL PER NFPA 1221 (2019) SECTION 9.6. COORDINATE RADIO FREQUENCY BANDWIDTH REQUIREMENTS WITH THE AHJ. PRIOR TO INSTALLATION, TEST RADIO COVERAGE IN BUILDING. IF INBOUND/OUTBOUND RADIO SIGNAL STRENGTH MEETS THE CRITERIA OF NFPA 1221 SECTION 9.6, DO NOT INSTALL RADIO ENHANCEMENTS AND PROVIDE CREDIT TO THE OWNER.

GENERAL FIRE ALARM SYSTEM NOTES

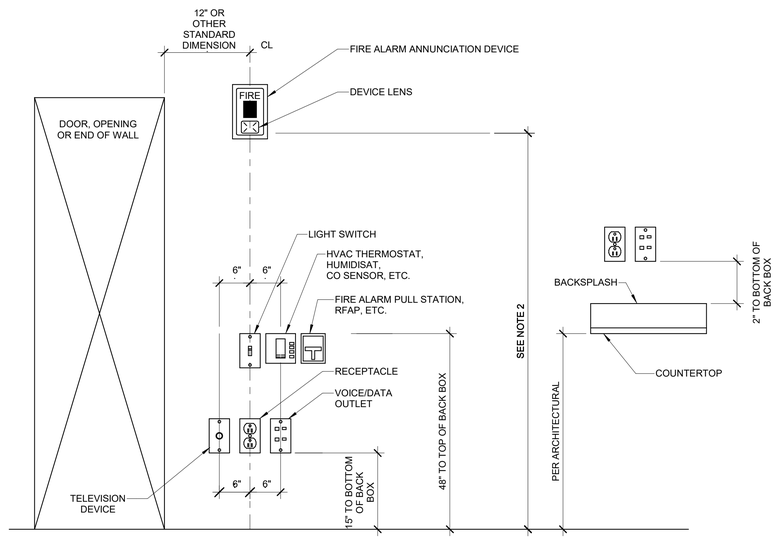
1. PROVIDE ALL DUCT SMOKE DETECTORS AND ACCESSORIES NECESSARY FOR INTERLOCKING WITH MECHANICAL EQUIPMENT (AHU'S, SMOKE DAMPERS, ETC). COORDINATE WITH MECHANICAL PLANS FOR LOCATIONS AND REQUIREMENTS.
2. INSTALL DUCT SMOKE DETECTORS TO COMPLY WITH NFPA 72. WHERE TWO DETECTOR LOCATIONS ARE SHOWN AT A SINGLE PIECE OF EQUIPMENT, INSTALL ONE DETECTOR IN THE SUPPLY DUCTWORK AND ONE DETECTOR IN THE RETURN DUCTWORK. COORDINATE MOUNTING LOCATION WITH THE MECHANICAL CONTRACTOR. PROVIDE WEATHERPROOF ENCLOSURE FOR DUCT DETECTORS INSTALLED IN EXTERIOR DUCTWORK. LOCATION SHOWN IS FOR REFERENCE ONLY.

GENERAL EXISTING CONDITION NOTES

1. AREAS OF WORK EXIST FOR THIS PROJECT WHICH WERE NOT ACCESSIBLE OR HAD LIMITED ACCESS DURING DESIGN. AS SUCH, CONTRACTOR SHALL VERIFY ALL UTILITIES IN AREA OF WORK BEFORE DEMOLITION OF ANY SERVICE. ANY ELECTRICAL COMPONENTS NOT SHOWN SHALL BE IDENTIFIED AND THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED AS SOON AS POSSIBLE. NO ELECTRICAL REWORK SHALL BE COMMENCED WITHOUT COORDINATION OF BOTH ARCHITECT AND ENGINEER. WHERE INFORMATION SHOWN ON THESE DRAWINGS CONFLICTS WITH VERIFIED FIELD CONDITIONS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER.
2. IN AREAS WHERE THE EXISTING CEILINGS ARE NOT SLATED TO BE REPLACED, THE CONTRACTOR SHALL WORK THROUGH THE EXISTING CEILINGS (SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR AREA OF WORK). THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY DAMAGED TILE OR GRID THAT IS A RESULT OF THEIR WORK. ALL WORK PERFORMED ABOVE EXISTING CEILINGS SHALL BE PERFORMED AFTER HOURS AND SCHEDULED WITH THE OWNER IN ADVANCE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A FIRESTOP SYSTEM IN ALL PENETRATIONS OF FIRE-RATED FLOORS AND WALLS CREATED BY THE REMOVAL OF EXISTING ELECTRICAL CONDUIT OR CABLES, AS WELL AS THOSE CREATED BY NEWLY INSTALLED CONDUITS AND SLEEVES.
4. WHERE INSTALLATION REQUIRES CUTTING OR DRILLING OF THE EXISTING FLOOR SLAB, THE CONTRACTOR SHALL X-RAY THE EXISTING SLAB PRIOR TO WORK TO ENSURE THAT NO EXISTING UTILITIES OR STRUCTURAL ELEMENTS IN THE SLAB WILL BE COMPROMISED BY THE WORK. NOTIFY THE A/E OF ANY CONFLICTS THAT WILL REQUIRE RELOCATING THE PROPOSED SLAB WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED UTILITIES OR STRUCTURAL ELEMENTS CAUSED BY THE SLAB DEMOLITION.
5. REMOVE ALL ABANDONED CONDUIT, WIRE AND CABLES ABOVE THE CEILING IN THE CONSTRUCTION AREA.
6. PROVIDE JUNCTION BOX COVERS ON ALL EXISTING JUNCTION BOXES ABOVE THE CEILING IN THE CONSTRUCTION AREA.

GENERAL DEMOLITION NOTES

1. ALL ELECTRICAL EQUIPMENT TO BE REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIALS UNTIL RELEASED BY THE OWNER'S PROJECT MANAGER. MATERIALS THAT THE OWNER'S PROJECT MANAGER CHOOSES TO RETAIN SHALL BE DELIVERED BY THE CONTRACTOR TO A LOCATION DESIGNATED BY THE PROJECT MANAGER. ALL OTHER MATERIALS SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR.



NOTE 1:
DEVICES SHOWN WITHIN 48" OF EACH OTHER ON ALL ELECTRICAL PLANS SHALL BE ALIGNED PER THIS DETAIL. IF DEVICES ARE SHOWN IN MIDDLE OF WALL, THEN CENTER DEVICES ON WALL.

NOTE 2:
MOUNT 80" ABOVE FINISHED FLOOR WHERE POSSIBLE. WHERE CEILING HEIGHTS DO NOT ALLOW THIS HEIGHT, MOUNT 6" BELOW CEILING. WHERE OBSTRUCTIONS DO NOT ALLOW THIS HEIGHT, MOUNT 80" TO 96" ABOVE FINISHED FLOOR. ALL MOUNTING HEIGHTS FOR NOTIFICATION DEVICES SHALL BE MEASURED TO THE BOTTOM OF THE LENS.

1 / E-001 DEVICE ALIGNMENT DETAIL
NOT TO SCALE

GENERAL ELECTRICAL NOTES

1. BRANCH CIRCUIT WIRING FOR 20A CIRCUITS SHALL BE SIZED PER WIRE SIZING CHART. WHERE CONDUCTOR AND RACEWAY SIZE ARE SHOWN AT HOMERUN, SUCH SIZE SHALL BE USED FOR THE ENTIRE CIRCUIT. EXCEPTION: FINAL CONNECTION TO DEVICES IN OUTLET BOXES IS NOT REQUIRED TO BE LARGER THAN #12.
2. PRIOR TO ROUGH-IN, COORDINATE THE LOCATION AND MOUNTING HEIGHT OF ALL WALL MOUNTED DEVICES WITH THE ARCHITECTURAL INTERIOR ELEVATIONS AND MILLWORK SHOP DRAWINGS. IN THE EVENT OF A CONFLICT, NOTIFY THE ARCHITECT. MINOR ADJUSTMENTS IN DEVICE LOCATION, SUCH AS 5'-0" IN ANY DIRECTION, SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER. UNDERCABINET LIGHT FIXTURES, RECEPTACLES AND OTHER DEVICES TO BE MOUNTED INSIDE CABINETS SHALL BE REVIEWED WITH THE ARCHITECT PRIOR TO ROUGH IN TO CONFIRM THE EXACT LOCATION OF FIXTURES AND DEVICES.
3. OUTLET BOXES FOR SWITCHES, RECEPTACLES, ETC. MOUNTED ON OPPOSITE SIDES OF PARTITIONS SHALL NOT BE MOUNTED IN THE SAME WALL CAVITY. SEPARATE WALL PENETRATIONS BY MOUNTING ON OPPOSITE SIDES OF WALL STUDS OR OTHER VERTICAL STRUCTURAL MEMBERS IN THE WALL. WHERE OUTLET BOXES ARE INSTALLED IN A FIRE-RATED PARTITION, INSTALLATION SHALL COMPLY WITH INTERNATIONAL BUILDING CODE 714.4.2.
4. RACEWAYS SHALL BE INSTALLED CONCEALED IN NEW WALL CONSTRUCTION, ABOVE CEILINGS, BELOW FLOOR AND IN OTHER CAVITIES TO THE GREATEST EXTENT POSSIBLE. EXPOSED RACEWAYS MAY BE USED IN UNFINISHED SPACES, WHERE EXPLICITLY NOTED ON PLANS AND WHERE APPROVED BY THE ARCHITECT AND ENGINEER. LAY OUT EXPOSED RACEWAYS TO MINIMIZE THE NUMBER OF VERTICAL RUNS.
5. FEEDER CONDUITS, BRANCH CIRCUITS AND CABLE TRAY ROUTING SHALL COMPLY WITH DETAILS ON DRAWINGS AND SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES BEFORE AND DURING CONSTRUCTION. COORDINATE THE ROUTING OF UNDERGROUND CONDUCTORS/CONDUITS WITH STRUCTURAL FOOTINGS OF BUILDING.
6. A FIRESTOP SYSTEM SHALL BE USED TO SEAL ALL PENETRATIONS OF ELECTRICAL CONDUITS AND CABLES THROUGH FIRE-RATED PARTITIONS. THE FIRESTOP SYSTEM SHALL CONSIST OF A FIRE-RATED CAULK TYPE SUBSTANCE AND HIGH TEMPERATURE FIBER INSULATION BY STI OR APPROVED EQUAL. ONLY METAL CONDUIT SHALL BE USED TO PENETRATE FIRE-RATED PARTITIONS. SEE ARCHITECTURAL DRAWINGS FOR ALL LOCATIONS OF FIRE-RATED WALLS.
7. THE USE OF MC CABLE IS ALLOWED ABOVE ACCESSIBLE CEILINGS AND IN STUD CONSTRUCTION ONLY. HOMERUNS TO PANEL SHALL BE WIRE IN RACEWAY ONLY, MC CABLE IS NOT ACCEPTABLE FOR HOMERUNS. MC CABLE IS ONLY ACCEPTABLE FOR 20A BRANCH CIRCUITS.
8. WHEREVER THE WORD "PROVIDE" IS USED ON THE ELECTRICAL DRAWINGS, IT SHALL BE INFERRED TO MEAN "FURNISH AND INSTALL", UNLESS NOTED OTHERWISE.
9. THE ARRANGEMENT, GROUPING, AND ROUTING OF BRANCH CIRCUITS SHALL BE PROVIDED AT THE CONTRACTOR'S DISCRETION IN ACCORDANCE WITH GENERALLY ACCEPTED PRACTICE FOR ELECTRICAL WORK, THE NATIONAL ELECTRICAL CODE REQUIREMENTS, LOCAL ORDINANCES, AND THE FOLLOWING: 1 - A COMMON NEUTRAL MAY BE INSTALLED IN A HOMERUN FOR 2 OR 3 BRANCH CIRCUITS ONLY IF A MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT OF ORIGIN IS PROVIDED PER NEC 210.4.B. 2 - MULTIPLE BRANCH CIRCUITS (UP TO 3 HOTS, 3 NEUTRALS AND 1 GROUND) RATED FOR 30A OR LESS MAY BE PULLED INTO A SINGLE RACEWAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING THE RACEWAYS AND DE-RATING CONDUCTORS PER NEC 310.15. 3 - A GROUND CONDUCTOR SHALL BE PROVIDED IN ALL RACEWAYS UNLESS NOTED OTHERWISE.

GENERAL POWER NOTES

1. ALL ELBOWS SHALL BE RIGID GALVANIZED STEEL. SEE THE ELECTRICAL SITE PLAN FOR ASSUMED LOCATIONS OF THE POLE MOUNTED TRANSFORMER AND UTILITY SERVICE POINT. COORDINATE EXACT LOCATION WITH THE UTILITY COMPANY. COORDINATE WITH THE UTILITY COMPANY TO PROVIDE A METER ON SERVICE. METER SHALL BE LOCATED PER UTILITY COMPANY REQUIREMENTS. ALL COSTS ASSOCIATED WITH THE UTILITY SERVICE (PRIMARY CONDUIT, METER, PERMITTING, ETC.) SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. THE GROUND ROD CLUSTER FOR THE SERVICE GROUND SHALL CONSIST OF THREE 3/4" X 10'-0" COPPER CLAD STEEL GROUND RODS. THEY SHALL BE DRIVEN IN A TRIANGULAR CONFIGURATION APPROXIMATELY 20' APART AND INTERCONNECTED IN DELTA WITH A BARE COPPER CONDUCTOR. REFER TO ONE-LINE DIAGRAM FOR GROUNDING ELECTRODE CONDUCTOR SIZE. TOPS OF THE RODS SHALL BE 12" BELOW FINISHED GRADE. CONNECTION TO THE RODS SHALL BE WITH EXOTHERMIC WELDS.

GENERAL LIGHTING NOTES

1. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR THE EXACT LOCATION OF ALL CEILING MOUNTED LIGHTING FIXTURES. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING DETAILS OF LIGHT FIXTURE TO ACOUSTICAL CEILING SYSTEM AND STRUCTURE.
2. EXACT LOCATIONS OF LIGHTING FIXTURES IN MECHANICAL SPACES SHALL BE DETERMINED IN THE FIELD. DO NOT SUPPORT FIXTURES FROM DUCT OR PIPING. PROVIDE CHAIN OR TRAPEZE-TYPE HANGERS WHERE FIXTURES CANNOT BE MOUNTED DIRECTLY TO CEILING.
3. LIGHTING FIXTURE CATALOG NUMBERS ARE INDICATIVE OF THE STYLE OF FIXTURE REQUIRED. CONTRACTOR SHALL PROVIDE FIXTURES WITH THE PROPER TRIM, VOLTAGE AND OPTIONS NECESSARY FOR INSTALLATION.
4. DOUBLE-FACED EXIT FIXTURES SHALL BE OF THE SAME MANUFACTURER AND SERIES AS THE SINGLE-FACED EXIT FIXTURES.
5. REGARDLESS OF CATALOG NUMBER INDICATED IN SCHEDULE, PROVIDE BATTERY BACK-UP FOR ALL FIXTURES INDICATED ON THE DRAWINGS TO BE EMERGENCY TYPE.
6. REGARDLESS OF HOW NOTED ON PLANS, ALL EMERGENCY LIGHTING FIXTURES INDICATED IN PRIVATE SPACES SHALL BE WIRED SO AS TO BE SWITCHED "ON/OFF" WITHOUT OPERATING THE EMERGENCY BATTERY BACK-UP.
7. REGARDLESS OF CATALOG NUMBER INDICATED IN SCHEDULE, ALL EXIT SIGNS AND EMERGENCY LIGHTING UNITS SHALL BE PROVIDED WITH BATTERY BACK-UP, SHALL BE WIRED AHEAD OF LOCAL SWITCH AND SHALL NOT BE SWITCHED.

GENERAL LOW VOLTAGE NOTES

1. EXTEND A #6 BARE COPPER GROUNDING CONDUCTOR FROM THE ELECTRICAL SERVICE GROUND TO THE BACKBOARD AND LEAVE WITH SUFFICIENT SLACK TO REACH ANY PLACE THEREON. COAT BACKBOARD WITH A MINIMUM OF TWO COATS OF FIRE RETARDANT PAINT.
2. EXTEND A 1" CONDUIT WITH PULL WIRE FROM EACH COMMUNICATION OUTLET TO ABOVE THE LAY-IN CEILING. TURN CONDUIT 12" INTO CEILING CAVITY A MINIMUM OF 6" ABOVE THE CEILING AND TERMINATE WITH AN INSULATED THROAT BUSHING.

GENERAL HVAC CONTROLS CONDUIT NOTES

1. PROVIDE CONDUIT FOR HVAC CONTROL CIRCUITS AS REQUIRED TO INTERCONNECT HVAC UNIT TO CONTROL CIRCUITS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR AND CONTROLS PROVIDER TO DETERMINE SCOPE OF CONDUITS REQUIRED FOR HVAC CONTROLS. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED CONDUIT. COORDINATE POINTS OF CONNECTION WITH DIVISION 23. PROVIDE PULL CORD IN ALL EMPTY CONDUITS. SEE MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL HVAC EQUIPMENT (AHU, HP, CU, RTU, DUCT SMOKE DETECTORS, VAV, FCU, THERMOSTATS, ETC).

LIGHTING SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	LIGHT FIXTURE (TYPICAL ALL DIMENSIONS)	S	LIGHT SWITCH, SINGLE POLE
	LIGHT FIXTURE (SHADING INDICATES EMERGENCY, TYPICAL ALL LIGHTING SYMBOLS)	S^X	LIGHT SWITCH, "X" INDICATES SWITCH TYPE
	STRIP LIGHT FIXTURE	S^a	LIGHT SWITCH, LOWERCASE LETTER INDICATES SWITCHLEG
	LIGHT FIXTURE (TYPICAL ALL DIMENSIONS)	OS	OCCUPANCY SENSOR (CEILING MOUNTED)
	LIGHT FIXTURE (TYPICAL ALL DIMENSIONS)	PC	PHOTOCELL LIGHTING CONTROL (WALL MOUNTED)
	WALL MOUNTED LIGHT FIXTURE	0	LIGHTING CONTROL SCHEME CALLOUT (SEE SCHEDULE)
	EXIT SIGN, SINGLE SIDED (ARROWS INDICATE CHEVRON DIRECTION)		EXIT SIGN, DOUBLE SIDED (ARROWS INDICATE CHEVRON DIRECTION)

POWER AND TELECOMMUNICATIONS SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
X	DUPLEX RECEPTACLE "X" INDICATES RECEPTACLE TYPE		COMMUNICATION OUTLET (DOUBLE GANG, ROUGH-IN ONLY)
X	GFCI DUPLEX RECEPTACLE "X" INDICATES RECEPTACLE TYPE		COMMUNICATION OUTLET (SINGLE GANG, ROUGH-IN ONLY)
X	QUADRUPLEX RECEPTACLE "X" INDICATES RECEPTACLE TYPE		COMMUNICATION OUTLET (FLOOR MOUNTED, ROUGH-IN ONLY)
X	GFCI QUADRUPLEX RECEPTACLE "X" INDICATES RECEPTACLE TYPE	TV|	TELEVISION OUTLET (WALL MOUNTED, ROUGH-IN ONLY) PROVIDE (1) 1" CONDUIT & (1) 1 1/2" CONDUIT TO TWO SEPARATE BOXES
	CEILING MOUNTED RECEPTACLE (TYPICAL ALL TYPES)	TV	TELEVISION OUTLET (WALL MOUNTED, ROUGH-IN ONLY)
	FLOOR MOUNTED RECEPTACLE (TYPICAL ALL TYPES)	WF	WI-FI ACCESS POINT (CEILING MOUNTED, ROUGH IN ONLY)
X	JUNCTION BOX (WALL MOUNTED) "X" INDICATES JUNCTION BOX TYPE	WF	WI-FI ACCESS POINT (WALL MOUNTED, ROUGH IN ONLY)
X	JUNCTION BOX (CEILING MOUNTED) "X" INDICATES JUNCTION BOX TYPE	CBB	COMMUNICATIONS BACKBOARD
	CABLE TRAY	GBB	GROUNDING BUSBAR
	DISCONNECT SWITCH (FUSIBLE OR NON-FUSIBLE)	TGBB	TELECOMMUNICATIONS GROUNDING BUSBAR
	PANELBOARD - DISTRIBUTION, SURFACE MOUNTED	M	METER
	PANELBOARD - BRANCH, SURFACE MOUNTED	SPD	SURGE PROTECTION DEVICE

SYSTEMS SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
SD	SMOKE DETECTOR (CEILING MOUNTED)	C	SECURITY CAMERA (WALL MOUNTED, ROUGH IN ONLY)
SD	SMOKE DETECTOR (DUCT MOUNTED)	E	ELECTRONIC DOOR STRIKE (ROUGH-IN ONLY)
X	CONTROL PANEL, "X" INDICATES TYPE	F	FIRE ALARM PULL STATION
RFAP	REMOTE FIRE ALARM ANNUNCIATOR	V	FIRE ALARM STROBE NOTIFICATION APPLIANCE (CEILING MOUNTED)
S	SPEAKER (CEILING MOUNTED, ROUGH IN ONLY)	H	FIRE ALARM HORN/STROBE NOTIFICATION APPLIANCE (CEILING MOUNTED)
C	SECURITY CAMERA (CEILING MOUNTED, ROUGH IN ONLY)		

ELECTRICAL CODES & STANDARDS (WITH ALL SOUTH CAROLINA MODIFICATIONS)

CODE	DESCRIPTION
IBC (2021)	INTERNATIONAL BUILDING CODE
IECC (2009)	INTERNATIONAL ENERGY CONSERVATION CODE
NFPA 70 (2020)	NATIONAL ELECTRICAL CODE
NFPA 72 (2019)	NATIONAL FIRE ALARM AND SIGNALING CODE

ELECTRICAL ABBREVIATIONS

ABBR	DESCRIPTION
(E)	EXISTING
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
BAS	BUILDING AUTOMATION SYSTEM
BFC	BELOW FINISHED CEILING
BOD	BOTTOM OF DEVICE
CBB	COMMUNICATIONS BACKBOARD
cd	CANDELA
CLG	CEILING
DAS	DISTRIBUTED ANTENNA SYSTEM
EF	EXHAUST FAN
FAAC	FIRE ALARM AMPLIFIER CABINET
FACP	FIRE ALARM CONTROL PANEL
GBB	GROUND BUSBAR
GFCI	GROUND-FAULT CIRCUIT-INTERRUPTING
HP	HEAT PUMP
J-BOX	JUNCTION BOX
KW	KILOWATTS
MCGB	MAIN COMMUNICATIONS GROUNDING BUSBAR
NEC	NATIONAL ELECTRICAL CODE
NFDS	NON-FUSED DISCONNECT SWITCH
SPD	SURGE PROTECTION DEVICE
TCGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
W/	WITH
WH	WATER HEATER
WP	WEATHERPROOF
XFMR	TRANSFORMER

CONTROL PANELS	DESCRIPTION
FAAC	FIRE ALARM AMPLIFIER CABINET
FACP	FIRE ALARM CONTROL PANEL
NAC	NOTIFICATION APPLIANCE CIRCUIT

JUNCTION BOX/SWITCH	DESCRIPTION
EF	EXHAUST FAN
OH	OVERHEAD DOOR
TC	ASTRONOMICAL TIME CLOCK

LIGHT SWITCH	DESCRIPTION
D	DIMMER
OD	COMBINATION OCCUPANCY SENSOR / DIMMER
VS	VACANCY SENSOR

RECEPTACLE	DESCRIPTION
C	MOUNT ABOVE COUNTER
M	MICROWAVE
WC	WATER COOLER
WP	WEATHERPROOF

LINE LEGEND

SYMBOL	DESCRIPTION
————	EXISTING TO REMAIN
————	NEW CONSTRUCTION
– – – –	DEMOLISH

WIRE SIZING CHART 20 AMP BRANCH CIRCUITS

DISTANCE, 120V	MINIMUM WIRE SIZE
0 - 90 FEET	#12 AWG
90 - 230 FEET	#10 AWG
230 - 446 FEET	#8 AWG

PMH CROFT
ARCHITECTS & ENGINEERS
1300 Professional Drive, Suite 201
Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
www.pmhcroft.com

SOUTH CAROLINA
No. 39922
09/23/2025
MAXWELL SIM

DWG CONSULTING ENGINEERS
EMPLOYEE OWNED
1009 Anna Knapp Blvd., Suite 200
Mt. Pleasant, SC 29464
843-849-1141

OWNER

HORRY GEORGETOWN TECHNICAL COLLEGE
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

HORRY GEORGETOWN TECHNICAL COLLEGE

PROJECT NAME

HGTC AUTOMOTIVE TECHNOLOGY BLDG. 1400 EXPANSION

CONWAY,SC 29526

H59-N302-CB

No.	Date	Description
1	2025-09-24	OSE COMMENTS
ISSUANCE		

PROJECT NUMBER
2025-2006

DRAWN: AMH
CHECKED: MHS

SHEET TITLE
ELECTRICAL NOTES & LEGENDS

SHEET NO.
E-001

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LIGHT FIXTURE SCHEDULE

FIXTURE SPECIFICATIONS					LAMPING			ELECTRICAL			
TYPE	FIXTURE DESCRIPTION	MANUFACTURER A	CAT. #	MANUFACTURER B	LAMP TYPE	TOTAL LUMENS	COLOR TEMP.	LOAD (VA)	VOLTS	FIXTURE MOUNTING	NOTES
A1	2'x4' TROFFER W/ ADJ. LUMEN AND COLOR TEMP	INDUSTRIAL LIGHTING PRODUCTS	VST24-2L/3L/4L-U-CCTS	ELITE LIGHTING	LED	2858	3500 K	31	120 V	RECESSED	
A1E	2'x4' TROFFER W/ ADJ. LUMEN AND COLOR TEMP EMERGENCY	INDUSTRIAL LIGHTING PRODUCTS	VST24-2L/3L/4L-U-CCTS-XXX	ELITE LIGHTING	LED	2858	3500 K	31	120 V	RECESSED	
D1E	6" DOWNLIGHT WET LOCATION W/ EMERGENCY BATTERY BACKUP	INFINIUM BY SPECTRUM LIGHITNG	SGE6LEDFX-30L-40K-DX-EM/BH27/AR 6223FX-MW-WF-SO-W	ELITE LIGHTING	LED	2350	4000 K	22	120 V	FLUSH MOUNTED	
D4	WIDE BEAM 4" DOWNLIGHT	HELIOS LIGHITNG	4R-15L-35K-WH	ELITE LIGHTING	LED	1450	3500 K	16	120 V	FLUSH MOUNTED	
HB	WHITE CIRCULAR HIGH BAY LIGHTING	INDUSTRIAL LIGHTING PRODUCTS	RB5L-26L-U-CCTS-PFL-WHT	ELITE LIGHTING	LED	24154	4000 K	167	120 V	PENDANT MOUNTED AT 12' AFF	
HBE	WHITE CIRCULAR HIGH BAY LIGHTING W/ EMERGENCY BATTERY BACKUP	INDUSTRIAL LIGHTING PRODUCTS	RB5L-26L-U-CCTS-PFL-WHT-EM/D	ELITE LIGHTING	LED	24154	4000 K	167	120 V	PENDANT MOUNTED AT 12' AFF	
J1	4' STRIP W/ ADJ. LUMEN AND COLOR TEMP	INDUSTRIAL LIGHTING PRODUCTS	VS4-3L/4L/5L-U-CCTS-FRL	ELITE LIGHTING	LED	3776	4000 K	25	120 V	PENDANT MOUNTED AT 8' AFF	
L1	2' LINEAR EXTERIOR SIGNAGE LIGHTING	LUMENPULSE	LFP-CR-24-40K-NVR-SM-17W-DIM		LED	2953	4000 K	34	120 V	SOFFIT MOUNTED	
SC	EXTERIOR DECORATIVE SCONCE	LITON OUTDOOR	WD2340-W		LED	2000	4000 K	40	120 V	WALL MOUNTED AT 5' 6"	
W1	EXTERIOR WALLPACK W/ ADJ. COLOR TEMP	INDUSTRIAL LIGHTING PRODUCTS	SWP-3L-U-CCTS-NAT	ELITE LIGHTING	LED	3310	4000 K	24	120 V	WALL MOUNTED AT 12'	
W2	EXTERIOR SCONCE WALLPACK	INDUSTRIAL LIGHTING PRODUCTS	OWS2-1L/2L/3L-U-CCTS-DS-BRZ	ELITE LIGHTING	LED	2148	4000 K	15	120 V	WALL MOUNTED AT 7'	
W2E	EXTERIOR SCONCE WALLPACK W/ EMERGENCY BACKUP	INDUSTRIAL LIGHTING PRODUCTS	OWS2-1L/2L/3L-U-CCTS-DS-BRZ-EM	ELITE LIGHTING	LED	2148	4000 K	15	120 V	WALL MOUNTED AT 7'	
X3	THERMOPLASTIC SINGLE FACE RED EXIT SIGN	EELP LIGHTING	XTS2RW	BEGHELLI	LED	--	--	3	120 V	WALL MOUNTED AT 7' 6"	

EQUIPMENT CONNECTION SCHEDULE (3 BAY)

UNIT I.D.	VOLTS	# OF POLES	LOAD (VA)	BRANCH CIRCUIT WIRING	DISCONNECT / STARTER	NOTES
UH-1	0 V	1	0			
UH-2	0 V	1	0			
AIR COMPRESSORS						
AC-2	208 V	3	11601	3-#6 & 1-#10G IN 3/4" CONDUIT	NFDS: 60A / 3P / NEMA 1	
AIR HANDLING UNITS						
AHU-1	208 V	2	5392	2-#10 & 1-#10G IN 3/4" CONDUIT	NFDS: 30A / 2P / NEMA 1	
DEDICATED OUTDOOR AIR UNITS						
DOAU-1	208 V	3	38440	3-#1/0 & 1-#6G IN 1 1/2" CONDUIT	NFDS: 200A / 3P / NEMA 3R	
EXHAUST FANS						
EF-1	120 V	1	19	2-#12 & 1-#12G IN 3/4" CONDUIT	MOTOR RATED TOGGLE SWITCH	
HEAT PUMPS						
HP-1	208 V	2	2812	2-#10 & 1-#10G IN 3/4" CONDUIT	NFDS: 30A / 2P / NEMA 4X	
HOT WATER RECIRCULATING PUMPS						
RC	120 V	1	52	2-#12 & 1-#12G IN 3/4" CONDUIT	MOTOR RATED TOGGLE SWITCH	
MINI-SPLIT						
MS-1	208 V	2	69	2-#12 & 1-#12G IN 3/4" CONDUIT	NFDS: 30A / 2P / NEMA 1	
MSHP-1	208 V	2	159	2-#10 & 1-#10G IN 3/4" CONDUIT	NFDS: 30A / 2P / NEMA 3R	
REFRIGERATED AIR DRYERS						
RFAD-2	120 V	1	1335	2-#12 & 1-#12G IN 3/4" CONDUIT	MOTOR RATED TOGGLE SWITCH	
WATER HEATERS						
WH	208 V	3	15000	3-#4 & 1-#10G IN 1" CONDUIT	NFDS: 60A / 3P / NEMA 1	

EQUIPMENT CONNECTION SCHEDULE (4 BAY)

UNIT I.D.	VOLTS	# OF POLES	LOAD (VA)	BRANCH CIRCUIT WIRING	DISCONNECT / STARTER	NOTES
UH-1	0 V	1	0			
UH-2	0 V	1	0			
AIR COMPRESSORS						
AC-2	208 V	3	11601	3-#6 & 1-#10G IN 3/4" CONDUIT	NFDS: 60A / 3P / NEMA 1	
AIR HANDLING UNITS						
AHU-1	208 V	2	5392	2-#10 & 1-#10G IN 3/4" CONDUIT	NFDS: 30A / 2P / NEMA 1	
DEDICATED OUTDOOR AIR UNITS						
DOAU-1	208 V	3	38440	3-#1/0 & 1-#6G IN 1 1/2" CONDUIT	NFDS: 200A / 3P / NEMA 3R	
EXHAUST FANS						
EF-1	120 V	1	19	2-#12 & 1-#12G IN 3/4" CONDUIT	MOTOR RATED TOGGLE SWITCH	
HEAT PUMPS						
HP-1	208 V	2	2812	2-#10 & 1-#10G IN 3/4" CONDUIT	NFDS: 30A / 2P / NEMA 3R	
HOT WATER RECIRCULATING PUMPS						
RC	120 V	1	52	2-#12 & 1-#12G IN 3/4" CONDUIT	MOTOR RATED TOGGLE SWITCH	
MINI-SPLIT						
MS-1	208 V	2	69	2-#12 & 1-#12G IN 3/4" CONDUIT	NFDS: 30A / 2P / NEMA 1	
MSHP-1	208 V	2	159	2-#10 & 1-#10G IN 3/4" CONDUIT	NFDS: 30A / 2P / NEMA 3R	
REFRIGERATED AIR DRYERS						
RFAD-2	120 V	1	1335	2-#12 & 1-#12G IN 3/4" CONDUIT	MOTOR RATED TOGGLE SWITCH	
WATER HEATERS						
WH	208 V	3	15000	3-#4 & 1-#10G IN 1" CONDUIT	NFDS: 60A / 3P / NEMA 1	

LIGHT FIXTURE PLAN KEY

SHADING INDICATES EMERGENCY FIXTURE SUPPLIED WITH EMERGENCY BATTERY BACKUP.



A1 = UPPERCASE LETTER / NUMBER INDICATE FIXTURE TYPE
d = LOWERCASE LETTER INDICATES SWITCH IDENTIFICATION
A:2 = DESIGNATES PANEL NAME: CIRCUIT NUMBER

ALL EMERGENCY FIXTURES INDICATED ON PLAN CONTAIN EMERGENCY BATTERY BACKUP. ALL EMERGENCY BACKUP FIXTURES REQUIRE AN EXTRA CONSTANT POWER CONDUCTOR TO BE CONNECTED TO THE EMERGENCY BACKUP FOR CHARGING. THIS CONDUCTOR MUST NOT BE CONTROLLED BY ANY LIGHTING SYSTEM OR HAVE POWER INTERRUPTED AT ANY TIME.

NOTES:

LIGHT CONTROL SCHEME

(#) LIGHTING CONTROL SYMBOL CORRELATES WITH DESIRED CONTROL SCHEME AS INDICATED IN THE LIGHTING CONTROL SCHEME SCHEDULE.

LIGHTING CONTROL SCHEME SCHEDULE

CONTROL SCHEME	CONTROL TYPE DESCRIPTION
2	MANUAL DIMMING BY WALL MOUNTED DIMMER SWITCH WITH CEILING MOUNTED OCCUPANY SENSOR. CONTROL MAINTAINED BY ROOM CONTROLLER.
13	SCHEDULE ON/OFF MAINTAINED BY TIMECLOCK, COORDINATE SCHEDULE WITH OWNER. LOCAL OVERRIDE PROVIDED BY TIMER SWITCH FOR AFTER HOURS OPERATION.
14	SCHEDULE ON/OFF MAINTAINED BY ASTRONOMICAL TIMECLOCK, COORDINATE SCHEDULE WITH OWNER. DUSK TILL DAWN OVERRIDE PROVIDED BY PHOTOCELL.

1. ROOM CONTROLLER BASIS OF DESIGN: WATT STOPPER LMRC-210 OR EQUAL
2. WALL MOUNTED SWITCH BASIS OF DESIGN: WATT STOPPER LMSW-101 OR EQUAL
3. WALL MOUNTED DIMMER SWITCH BASIS OF DESIGN: WATT STOPPER LMDM-100 OR EQUAL
4. WALL MOUNTED, SINGLE LEVEL VACANCY SENSOR BASIS OF DESIGN: WATT STOPPER LMDW-101 OR EQUAL
5. CEILING MOUNTED OCCUPANCY/ VACANCY SENSOR BASIS OF DESIGN: WATT STOPPER LMDC-100 OR EQUAL
6. PHOTOSENSOR BASIS OF DESIGN: WATT STOPPER LMLS-400 OR EQUAL

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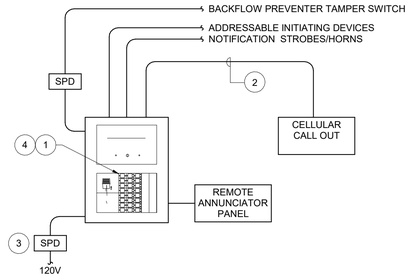
SHEET NO.
E-002

THIS SHEET PLOTS ON 24"x36" ARCH D
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THIS SHEET PLOTS ON 24"x36" ARCH D
3" 2" 1" 1/2" 0

FIRE ALARM SINGLE-LINE NOTES

1. SECONDARY NETWORK PANELS SHALL SUPPORT INITIATION AND NOTIFICATION DEVICES ON SAME FLOOR.
2. PROVIDE TWO LINES OF CELLULAR CALL OUT FOR FACP. PROVIDE A REMOTE BUILDING MOUNTED ANTENNA WITH SURGE PROTECTION IF NEEDED.
3. PROVIDE SURGE PROTECTIVE DEVICES FOR ALL INCOMING POWER CONNECTIONS TO FIRE ALARM CONTROL PANELS, POWER SUPPLIES, AND BATTERY SYSTEMS.
4. PROVIDE AUDIO CONTROL SWITCHES ON THE FACP TO ACCOMMODATE AT A MINIMUM: LOCAL SPEAKER ON/OFF AND LAMP TEST.



FIRE ALARM SYSTEM GENERAL NOTES

1. SEE FLOOR PLANS FOR INTENDED COVERAGE OF FIRE ALARM SYSTEM.
2. THE FOLLOWING SHALL OCCUR UPON ACTIVATION OF ANY INITIATING DEVICE:
   - A. SOUND ALL AUDIBLE DEVICES (CHIMES, HORNS, BELLS, ETC.) AND FLASH ALL VISUAL DEVICES (LIGHTS OR STROBES) THROUGHOUT THE ENTIRE FACILITY.
   - B. ALERT A CENTRAL STATION ALARM REPORTING SERVICE VIA DIGITAL COMMUNICATOR AND CELL PHONE.
   - C. CLOSE ALL SMOKE DOORS THROUGHOUT THE FACILITY.
   - D. STOP AHU'S AND FANS.
   - E. INDICATE BY ZONE WITH AUDIO/VISUAL SIGNAL AT FACP AND ALL REMOTE ANNUNCIATORS.
3. INITIATING DEVICES SHALL BE SMOKE DETECTORS, DUCT-MOUNTED SMOKE DETECTORS, HEAT DETECTORS, MANUAL PULL STATIONS, AND SPRINKLER FLOW SWITCHES.
4. UPON ACTIVATION OF ANY VALVE SUPERVISORY (TAMPER) SWITCH, A DISTINCT SIGNAL ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION SHALL BE SENT TO THE FACP. VISUAL PORTION OF SIGNAL SHALL BE CONTINUOUS. TONE DURATION SHALL BE 3 SECONDS.
5. SYSTEM TROUBLE (OPEN WIRING, SHORTED WIRING, OR GROUND FAULTS) SHALL BE ANNUNCIATED BOTH AUDIBLY AND VISUALLY AT THE FACP AND AT ALL ANNUNCIATORS.
6. NOTIFICATION APPLIANCE CIRCUITS THAT PASS THROUGH A DIFFERENT ZONE THAN THE ZONE IN WHICH THEY ARE NOTIFYING SHALL BE INSTALLED IN A 2-HOUR RATED CABLE/CONDUIT ASSEMBLY.
7. THE FIRE ALARM CONTRACTOR SHALL COORDINATE WITH THE OWNER AND LOCAL FIRE MARSHALL REGARDING THE REQUIRED NOTIFICATION ZONING REQUIREMENTS AND PROVIDE 2-HOUR RATED CABLE/CONDUIT ASSEMBLY FOR EACH REQUIRED ZONE.
8. ALL SYSTEM WIRING SHALL BE CLASS B, NO T-TAPPING IS PERMITTED.
9. PROVIDE BATTERY AND VOLTAGE DROP CALCULATIONS THAT INCLUDE ALL DEVICES AND APPLIANCES INSTALLED IN SYSTEM AND SUBMIT TO ENGINEER.
10. THE LOCATION OF THE BRANCH CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE CONTROL UNIT. THIS INFORMATION SHALL INCLUDE THE PANELBOARD AND CIRCUIT BREAKER SERVING THE FACP, AS WELL AS THE ROOM WHERE THE PANELBOARD IS LOCATED.
11. FIRE ALARM SYSTEM CONTROL EQUIPMENT, ALARM INITIATING DEVICES, POWER SOURCES, MUNICIPAL OR REMOTE STATION SIGNALING APPARATUS, SMOKE DOOR HOLD/RELEASE DEVICES, AND REMOTE ANNUNCIATION/CONTROL PANELS SHALL BE UNDERWRITER'S LABORATORIES LISTED FOR THE INSTALLED APPLICATION.
12. ALL FIRE ALARM CABLING SHALL BE IN RED EMT CONDUIT.

1 E-003 PARTIAL FIRE ALARM RISER DIAGRAM - CELL CALL OUT

NOT TO SCALE

DAS KEYED NOTES

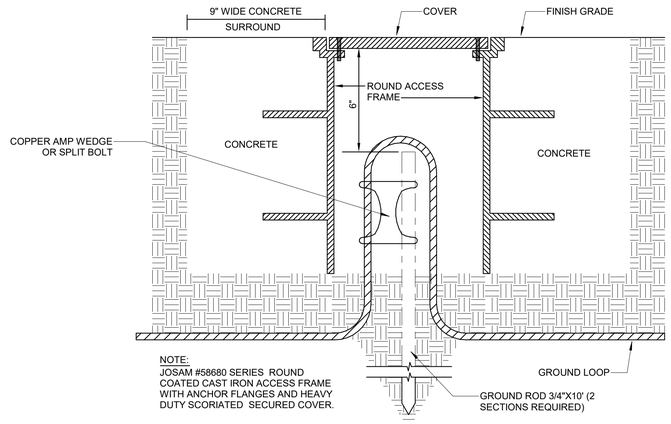
1. PROVIDE HEAD-END FOR IN-BUILDING RADIO ENHANCEMENT SYSTEM. PROVIDE WITH SECONDARY POWER SOURCE CAPABLE OF SUPPORTING SYSTEM AS REQUIRED PER NFPA 72 (10.6.10) AND (10.6.11.3).
2. PROVIDE CONDUIT TO ROOF. PROVIDE WEATHERHEAD.
3. PROVIDE IN-BUILDING PUBLIC SAFETY RADIO SYSTEM ANTENNA SUPPORTED TO WITHSTAND 165 MPH WIND. PROVIDE TVSS ON ANTENNA CABLE AND ISOLATE ANTENNA FROM LIGHTNING PROTECTION SYSTEM.
4. PROVIDE CONDUIT WITH CONTACT OUTPUTS FOR SUPERVISORY AND TROUBLE ALARMS TO BUILDING FIRE ALARM SYSTEM.
5. CONDUIT OR ARMORED CABLE. COORDINATE CONDUIT SIZE WITH CABLE PROVIDED.

DAS GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE A RADIO PATH SURVERY TO DETERMINE IF ANTENNAS ARE NEEDED AND LOCATE ANTENNA ACCORDINGLY.
2. THE LOCATION OF THE BRANCH CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE CONTROL UNIT. THIS INFORMATION SHALL INCLUDE THE PANELBOARD AND CIRCUIT BREAKER SERVING THE DAS SYSTEM, AS WELL AS THE ROOM WHERE THE PANELBOARD IS LOCATED.

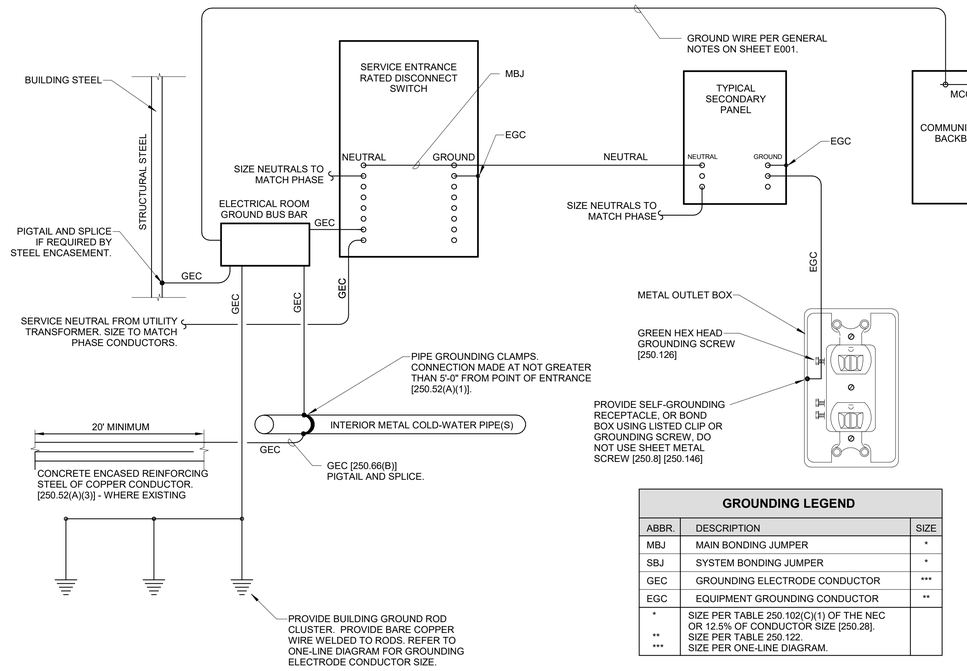
3 E-003 DAS REPEATER DETAIL

NOT TO SCALE



4 E-003 GROUNDING TEST WELL

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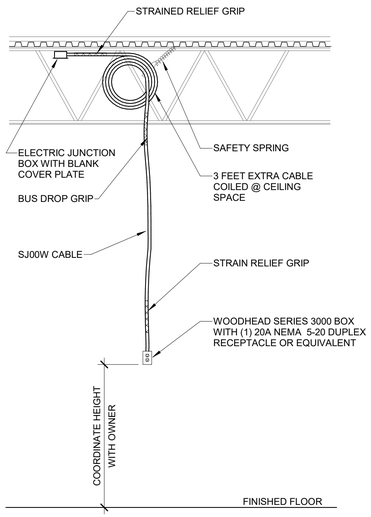
GROUNDING LEGEND		
ABBR.	DESCRIPTION	SIZE
MBJ	MAIN BONDING JUMPER	*
SBJ	SYSTEM BONDING JUMPER	*
GEC	GROUNDING ELECTRODE CONDUCTOR	***
EGC	EQUIPMENT GROUNDING CONDUCTOR	**
* ** ***	SIZE PER TABLE 250.102(C)(1) OF THE NEC OR 12.5% OF CONDUCTOR SIZE [250.28]. SIZE PER TABLE 250.122. SIZE PER ONE-LINE DIAGRAM.	

GROUNDING NOTES:

1. NUMBERS IN BRACKETS REFER TO SPECIFIC SECTIONS OF THE NATIONAL ELECTRICAL CODE.
2. ALL UNDERGROUND OR OTHERWISE INACCESSIBLE GROUND CONNECTIONS AND SPLICES SHALL BE EXOTHERMICALLY WELDED [250.68].
3. GROUND ELECTRODE FOR SEPARATELY DERIVED SYSTEMS SHALL BE THE NEAREST METAL WATER PIPE OR STRUCTURAL METAL. IF EITHER IS NOT AVAILABLE, PROVIDE GROUNDING CONDUCTOR BACK TO MAIN GROUND BUS AT SERVICE ENTRANCE.
4. PROVIDE A GROUND WIRE IN ALL CONDUITS.
5. EARTH SHALL NOT BE USED AS THE SOLE GROUND RETURN PATH FOR ANY EQUIPMENT POWERED UNDER THIS PROJECT. OTHERWISE OVERCURRENT PROTECTION MIGHT NOT WORK, OR IT MIGHT CAUSE POWER QUALITY PROBLEMS.
6. NO ALUMINUM SHALL BE USED FOR GROUNDING WORK WITHOUT THE SPECIFIC WRITTEN PERMISSION OF THE ENGINEER. EXCEPTION: ALUMINUM BUILDING STRUCTURAL MATERIALS SHALL BE BONDED WITH LISTED ALUMINUM EQUIPMENT WITH ALUMINUM TO COPPER CONNECTORS FOR ROUTING COPPER EGC'S.
7. PROVIDE GROUNDING BUSHING ON BOTH ENDS OF ALL SERVICE ENTRANCE RACEWAYS IF METAL RACEWAY IS USED, SIZE AS A GEC [250.80]. THIS INCLUDES RIGID STEEL ELBOWS ON PVC CONDUIT.
8. ALL METAL ENCLOSURES AND RACEWAYS SHALL BE BONDED TO GROUND [250.86]. FOR CIRCUITS OVER 250V PROVIDE BOND PER [250.97], STANDARD LOCKNUTS ARE NOT ACCEPTABLE.
9. PROVIDE EGC CONNECTED TO ANY JUNCTION BOX WHERE SPLICE IS MADE [250.148].
10. PROVIDE BOND TO EXPOSED METAL ON ALL MOTORS, PUMPS, AND LIGHTING FIXTURES PER [250.112].

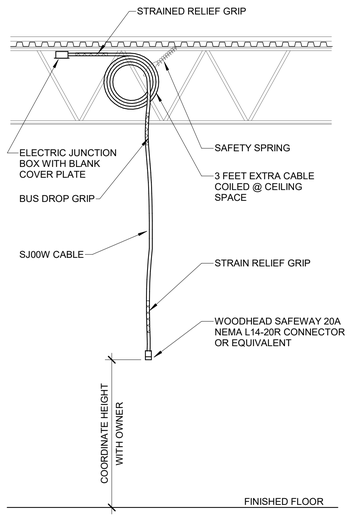
2 E-003 GROUNDING DETAIL

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5 E-003 POWER DROP

NOT TO SCALE



6 E-003 POWER DROP NEMA 14-20P

NOT TO SCALE

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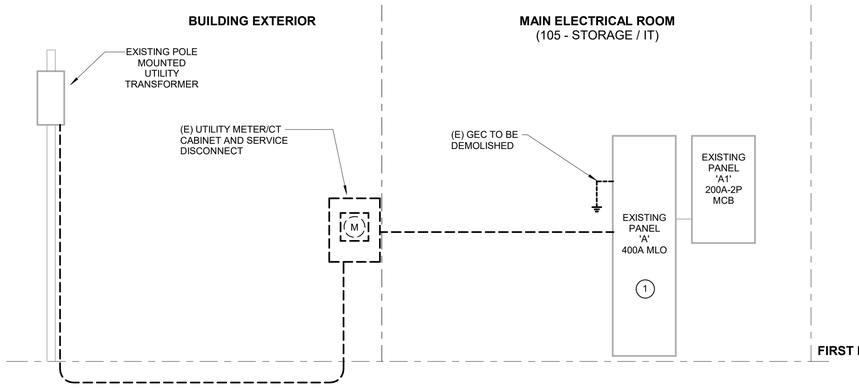
THIS SHEET PLOTS ON 24"x36" ARCH D
0 1/2" 1" 2" 3"

ELECTRICAL SERVICE GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE INSTALLATION OF METER ON BUILDING WITH UTILITY COMPANY CONTACT KADE RHODES. KADE.RHODES@SANTEECOOPER.COM. CONTRACTOR SHALL INSTALL PER REQUIREMENTS OF UTILITY COMPANY.
2. CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED ELECTRICAL COMPONENTS TO MAKE UTILITY CONNECTION IN ACCORDANCE WITH UTILITY COMPANY'S REQUIREMENTS. UTILITY COMPANY SHALL INSPECT WORK PRIOR TO PROVIDING CONNECTION TO UTILITY SERVICE TRANSFORMER.
3. SERVICE DISCONNECTS SHALL BE PROPERLY LABELED IN ACCORDANCE WITH UTILITY REQUIREMENTS. UTILITY COMPANY SHALL NOT PROVIDE CONNECTION TO SERVICES WITHOUT PROPER IDENTIFICATION.
4. DEMOLISH ANY UNUSED OR ABANDONED ELECTRICAL EQUIPMENT.

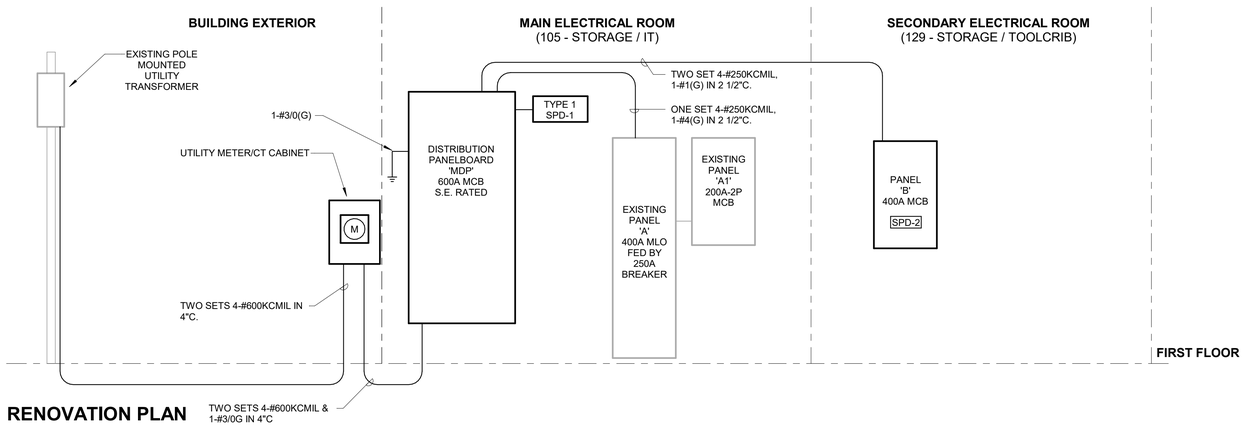
ELECTRICAL SERVICE KEYNOTES NOTES:

(1) REMOVE MAIN BONDING JUMPER AND PROVIDE SPACER FOR NEUTRAL BAR TO ISOLATE THE NEUTRAL FROM THE GROUNDING/BONDING SYSTEM. DISCONNECT THE GEC.



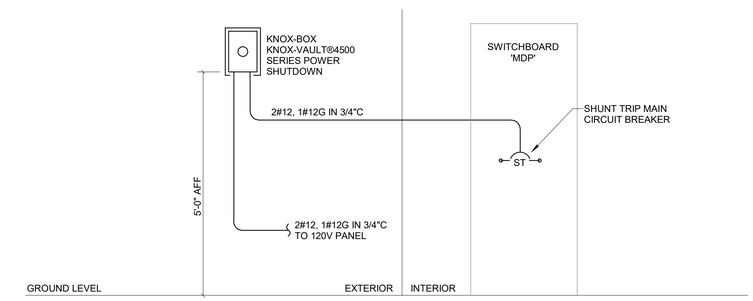
DEMOLITION PLAN

SURGE PROTECTION DEVICE (SPD) SCHEDULE						
SPD ID	LOCATION TYPE	SURGE CURRENT RATING	SURGE COUNTER	VISUAL & AUDIO ALARM	NETWORK MONITORING	ENCLOSURE
SPD-1	TYPE 1 & 2	200kA / MODE	YES	YES	NO	NEMA 1
SPD-2	TYPE 2	200kA / MODE	YES	YES	NO	NEMA 1



RENOVATION PLAN

1 E-010 ONE-LINE DIAGRAM
NOT TO SCALE



SHUNT TRIP NOTES

1. PROVIDE KNOX-VAULT 4500 SERIES ENCLOSURE WITH PUSH BUTTON FOR ACTIVATION OF SHUNT TRIP FEATURE ON ASSOCIATED MAIN CIRCUIT BREAKER. PROVIDE PERMANENT ENGRAVED LAMINATE PLASTIC LABEL ON OR ADJACENT TO SWITCH ENCLOSURE THAT READS "SERVICE DISCONNECT".

2 E-010 KNOX-BOX/SHUNT TRIP DETAIL
SCALE: 12" = 1'-0"

AVAILABLE FAULT CURRENT

BASED ON A **75** KVA, THE MAXIMUM FAULT CURRENT AVAILABLE AT THE SERVICE ENTRANCE DISCONNECT IS CALCULATED TO BE **13,878** AMPS. LABEL THE SERVICE ENTRANCE DISCONNECT WITH THIS MAXIMUM FAULT CURRENT AND THE DATE OF INSTALLATION. CONTACT ENGINEER 2 WEEKS PRIOR TO SUBSTANTIAL COMPLETION TO CONFIRM THE AVAILABLE FAULT CURRENT PRIOR TO LABELING EQUIPMENT.

PMH CROFT
ARCHITECTS & ENGINEERS
1300 Professional Drive, Suite 201
Mytle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
www.pmhcroft.com

DWG CONSULTING ENGINEERS EMPLOYEE OWNED
1009 Anna Knapp Blvd., Suite 200
Mt. Pleasant, SC 29464
843-849-1141

OWNER

HORRY GEORGETOWN TECHNICAL COLLEGE
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

HORRY GEORGETOWN TECHNICAL COLLEGE

PROJECT NAME

HGTC AUTOMOTIVE TECHNOLOGY BLDG. 1400 EXPANSION

CONWAY,SC 29526

H59-N302-CB

No.	Date	Description
1	2025-09-24	OSE COMMENTS
		ISSUANCE

PROJECT NUMBER
2025-2006

DRAWN: AMH
CHECKED: MHS

SHEET TITLE
ELECTRICAL ONE-LINE DIAGRAM

SHEET NO.
E-010

9/24/2025 1:45:49 PM Autodesk Docs://2025-2006 HGTC Automotive Technology/24238-00 HGTC Automotive Tech MEP_2025.rvt
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DISTRIBUTION PANELBOARD SCHEDULE

NAME: MDP
LOCATION: I.T. / ELEC. 104
SOURCE: SERVICE METER
MOUNTING: SURFACE
VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
ENCLOSURE: TYPE 1
A.I.C. RATING: 10000
MAINS RATING: 600 A
MAINS TYPE: SHUNT TRIP MAIN CIRCUIT BREAKER TO REMOTE SHUTOFF

CKT NO.	CIRCUIT DESCRIPTION	POLES	TRIP RATING	A	B	C
1,2,3	(E) A	3	250 A	6673	6140	6606
4,5,6	B	3	400 A	13264	12704	11830
7,8,9	DOAU-1	3	150 A	12813	12813	12813
10	KNOX BOX	1	20 A	180		
11	PREPARED SPACE	1	--		--	
12	PREPARED SPACE	1	--			--
13,14,15	PREPARED SPACE	3	--	--	--	--
16,17,18	PREPARED SPACE	3	--	--	--	--
	TOTAL CONNECTED PHASE LOAD:			32930	31658	31250
	TOTAL PHASE AMPS:			275 A	264 A	260 A
	TOTAL CONNECTED LOAD:			95838		
	TOTAL AMPS:			266 A		

SERVICE LOAD CALCULATION

PANELBOARD CALCULATIONS ONLY INCLUDE ADDITIONAL LOADS FROM THE RENOVATION

PER NEC 220.87 CALCULATION OF FEEDER OR SERVICE LOAD FOR EXISTING INSTALLATIONS SHALL BE PERMITTED TO USE ACTUAL MAXIMUM DEMAND TO DETERMINE THE EXISTING LOAD IF 1 YEAR OF EXISTING MAX DEMAND LOAD IS AVAILABLE.

DEMAND METERING X POWER FACTOR ASSUMPTION X 125% + NEW LOAD = SERVICE LOAD SUMMARY
21KW / 0.85 X 1.25 = 30.88KVA + 95.838KVA = **126.720KVA OR 351.74A AT 208V 3 PHASE**

EXISTING PANELBOARD SCHEDULE

PANEL NAME: (E) A
LOCATION: I.T. / ELEC. 104
SOURCE: MDP
MOUNTING: SURFACE
VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
ENCLOSURE: TYPE 1
A.I.C. RATING: EXISTING
MAINS RATING: 400 A
MAINS TYPE: MAIN LUGS ONLY
EXISTING PANEL: EATON # PRL1A

CKT NO.	CIRCUIT DESIGNATION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESIGNATION	CKT NO.
1				0 VA / 0 VA						2
3	EXISTING	60 A	3		0 VA / 0 VA		3	50 A	EXISTING	4
5						0 VA / 0 VA				6
7				0 VA / 0 VA						8
9	EXISTING	20 A	3		0 VA / 0 VA		3	20 A	EXISTING	10
11						0 VA / 0 VA				12
13				0 VA / 0 VA						14
15	EXISTING	20 A	3		0 VA / 0 VA		3	30 A	EXISTING	16
17						0 VA / 0 VA				18
19				0 VA / 0 VA						20
21	EXISTING	60 A	3		0 VA / 0 VA		2	20 A	EXISTING	22
23						0 VA / 0 VA				24
25	LTG - UNISEX 131	20 A	1	40 VA / 0 VA			2	20 A	EXISTING	26
27	REC - UNISEX 131	20 A	1		180 VA / 360 VA		1	20 A	(1*) REC - WATER COOLER 121	28
29	(2*) DAS	20 A	1			100 VA / 1410 VA	2	25 A	HVAC - HP-1	30
31	HVAC - RC	15 A	1	50 VA / 1410 VA						32
33	(2*) RFAP	20 A	1		500 VA / 100 VA		1	20 A	(2*) FACP	34
35	(2*) NAC	20 A	1			100 VA / 5000 VA	3	60 A	WATER HEATER	36
37	(1*) REC - DISPLAY EXISTING LAB 117	20 A	1	180 VA / 5000 VA						38
39	PREPARED SPACE	--	1		0 VA / 5000 VA					40
41	PREPARED SPACE	--	1			0 VA / 0 VA	1	--	PREPARED SPACE	42
43				0 VA / 0 VA						44
45	(4*) (E) A1	200 A	3		0 VA / 0 VA		3	--	NOT USABLE	46
47						0 VA / 0 VA				48
	TOTAL PHASE LOAD:			6673 VA	6140 VA	6606 VA				
	TOTAL PHASE CURRENT:			56 A	51 A	56 A				
	PANEL TOTALS									
	TOTAL ADDITIONAL LOAD: 19419 VA									
	TOTAL ADDITIONAL CURRENT: 54 A									

EXISTING PANELBOARD SCHEDULE

PANEL NAME: (E) A1
LOCATION: I.T. / ELEC. 104
SUPPLY FROM: (E) A
MOUNTING: SURFACE
VOLTS: 120/208 W/ye
PHASES: 3
WIRES: 4
ENCLOSURE: TYPE 1
A.I.C. RATING: EXISTING
MAINS RATING: 200 A
MAINS TYPE: MAIN CIRCUIT BREAKER
EXISTING PANEL: SQUARE D # SERIES G1

CKT NO.	CIRCUIT DESIGNATION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESIGNATION	CKT NO.
1	EXISTING	20 A	1	0 VA / 0 VA			1	20 A	EXISTING	2
3	EXISTING	60 A	2		0 VA / 0 VA		2	30 A	(E) SPARE	4
5						0 VA / 0 VA				6
7	EXISTING	50 A	2	0 VA / 0 VA			2	50 A	EXISTING	8
9					0 VA / 0 VA					10
11	EXISTING/EXISTING	20 A	1			0 VA / 0 VA	1	20 A	EXISTING	12
13	EXISTING	20 A	1	0 VA / 0 VA			1	20 A	EXISTING	14
15	EXISTING	20 A	1		0 VA / 0 VA		1	20 A	EXISTING	16
17	EXISTING	20 A	1			0 VA / 0 VA	1	20 A	EXISTING	18
19	EXISTING	20 A	1	0 VA / 0 VA			1	20 A	EXISTING	20
21	EXISTING	20 A	1		0 VA / 0 VA		1	20 A	EXISTING	22
23	EXISTING/EXISTING	20 A	1			0 VA / 0 VA	1	20 A	EXISTING	24
25	EXISTING	20 A	2	0 VA / 0 VA			1	20 A	EXISTING	26
27					0 VA / 0 VA		1	20 A	EXISTING	28
29	EXISTING/EXISTING	20 A	1			0 VA / 0 VA	1	20 A	EXISTING	30
31	EXISTING/EXISTING	20 A	1	0 VA / 0 VA			1	20 A	EXISTING/EXISTING	32
33	EXISTING	20 A	1		0 VA / 0 VA		1	20 A	EXISTING	34
35	EXISTING	20 A	1			0 VA / 0 VA	1	20 A	EXISTING	36
37	EXISTING	20 A	1	0 VA / 0 VA			2	30 A	EXISTING	38
39	EXISTING	30 A	1		0 VA / 0 VA					40
	TOTAL PHASE LOAD:			0 VA	0 VA	0 VA				
	TOTAL PHASE CURRENT:			0 A	0 A	0 A				
	PANEL TOTALS									
	TOTAL ADDITIONAL LOAD: 0 VA									
	TOTAL ADDITIONAL CURRENT: 0 A									

PANELBOARD SCHEDULE

PANEL NAME: B
LOCATION: STORAGE / TOOLCRIB 129
SOURCE: MDP
MOUNTING: SURFACE
VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
ENCLOSURE: TYPE 1
A.I.C. RATING: 10000
MAINS RATING: 400 A
MAINS TYPE: MAIN CIRCUIT BREAKER

CKT NO.	CIRCUIT DESIGNATION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESIGNATION	CKT NO.
1	REC - MECH 122, OFF 120, TOOL 129	20 A	1	1260 VA / 1440 VA			1	20 A	REC - CLASSRM 124	2
3	REC - CLASSRM 124	20 A	1		1800 VA / 180 VA		1	20 A	REC - DISPLAY CLASSRM 124	4
5	REC - EXTERIOR	20 A	1			720 VA / 1080 VA	1	20 A	REC - EXTERIOR	6
7	REC - AUTO LAB 121	20 A	1	1260 VA / 1260 VA			1	20 A	REC - AUTO LAB 121	8
9	(1*) DROPDOWN REC - AUTO LAB 121	20 A	1		180 VA / 80 VA		2	25 A	HVAC - MSHP-1	10
11	(1*) DROPDOWN REC - AUTO LAB 121	20 A	1			180 VA / 80 VA				12
13	(1*) DROPDOWN CONNECTOR - CAR LIFT 121	15 A	3	710 VA / 180 VA			1	20 A	(1*) DROPDOWN REC - AUTO LAB 121	14
15					710 VA / 2700 VA		2	30 A	HVAC - AHU-1	16
17						710 VA / 2700 VA				18
19	BAYDOOR 121	20 A	1	100 VA / 100 VA			1	20 A	BAYDOOR 121	20
21	(1*) DROPDOWN CONNECTOR - CAR LIFT 121	15 A	3		710 VA / 100 VA		1	20 A	BAYDOOR 121	22
23						710 VA / 710 VA	3	15 A	(1*) DROPDOWN CONNECTOR - CAR LIFT 121	24
25				710 VA / 710 VA						26
27	LTG - AUTO LAB 121	20 A	1		670 VA / 710 VA					28
29	LTG - EXIT SIGNS, EXTERIOR	20 A	1			410 VA / 480 VA	1	20 A	LTG - CLASRM 124,MECH 122,OFF 12O	30
31	AC-2	45 A	3	3870 VA / 1340 VA			1	20 A	RFAD-1	32
33					3870 VA / 1000 VA		1	20 A	LTG - TOOL 129, AUTO LAB 121	34
35						3870 VA / 180 VA	1	20 A	(1*) REC - DISPLAY AUTOLAB 121	36
37	(1*) REC - DOAU SERVICE REC	20 A	1	180 VA / 150 VA			1	20 A	HVAC - DAMPER	38
39	DOAU CONTROL PANEL	20 A	1		0 VA / 0 VA		1	20 A	SPARE	40
41	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE	42
43	SPARE	20 A	1	0 VA / 0 VA			1	20 A	SPARE	44
45	SPARE	20 A	1		0 VA / 0 VA		1	20 A	SPARE	46
47	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE	48
49	SPARE	20 A	1	0 VA / 0 VA			1	20 A	SPARE	50
51	SPARE	20 A	1		0 VA / 0 VA		1	20 A	SPARE	52
53	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE	54
55	SPARE	20 A	1	0 VA / 0 VA			1	20 A	SPARE	56
57	SPARE	20 A	1		0 VA / 0 VA		1	20 A	SPARE	58
59	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE	60
61	SPARE	20 A	1	0 VA / 0 VA			1	20 A	SPARE	62
63	SPARE	20 A	1		0 VA / 0 VA		1	20 A	SPARE	64
65	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE	66
67	SPARE	20 A	1	0 VA / 0 VA			1	20 A	SPARE	68
69	SPARE	20 A	1		0 VA / 0 VA		1	20 A	SPARE	70
71	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE	72
	TOTAL PHASE LOAD:			13264 VA	12704 VA	11830 VA				
	TOTAL PHASE CURRENT:			112 A	107 A	99 A				
	PANEL TOTALS									
	TOTAL CONNECTED LOAD: 37798 VA									
	TOTAL CONNECTED CURRENT: 105 A									

PANEL SCHEDULE NOTES

(1*) PROVIDE GFCI TYPE CIRCUIT BREAKER.
(2*) PROVIDE CIRCUIT BREAKER WITH A RED FIRE ALARM CIRCUIT BREAKER LOCKOUT KIT THAT PERMANENTLY IDENTIFIES CIRCUIT AS "FIRE ALARM".
(3*) NOT USED.
(4*) EXISTING SUBFED BREAKER

PANEL SCHEDULE KEY	
MDP	B
(E) A	
(E) A1	

PMH CROFT
ARCHITECTS & ENGINEERS
1300 Professional Drive, Suite 201
Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
www.pmhcroft.com

DWG CONSULTING ENGINEERS EMPLOYEE OWNED
1009 Anna Knapp Blvd., Suite 200
Mt. Pleasant, SC 29464
843-849-1141

OWNER

HORRY GEORGETOWN TECHNICAL COLLEGE
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

HORRY GEORGETOWN TECHNICAL COLLEGE

PROJECT NAME

HGTC AUTOMOTIVE TECHNOLOGY BLDG. 1400 EXPANSION

CONWAY,SC 29526

H59-N302-CB

No.	Date	Description
1	2025-09-24	OSE COMMENTS
		ISSUANCE

PROJECT NUMBER
2025-2006

DRAWN: AMH
CHECKED: MHS

SHEET TITLE
ELECTRICAL PANEL SCHEDULES (3 BAY)

SHEET NO.
E-050

THIS SHEET PLOTS ON 24"X36" ARCH D
3" 2" 1" 1/2" 0
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DISTRIBUTION PANELBOARD SCHEDULE

NAME: MDP
LOCATION: I.T. / ELEC. 104
SOURCE:
MOUNTING: SURFACE
VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
ENCLOSURE: TYPE 1
A.I.C. RATING: 10000
MAINS RATING: 600 A
MAINS TYPE: SHUNT TRIP MAIN CIRCUIT BREAKER TO REMOTE SHUTOFF

CKT NO.	CIRCUIT DESCRIPTION	POLES	TRIP RATING	A	B	C
1,2,3	(E) A	3	250 A	6786	6140	6493
4,5,6	B	3	400 A	14038	13594	13836
7,8,9	DOAU-1	3	150 A	12813	12813	12813
10	KNOX BOX	1	20 A	180		
11	PREPARED SPACE	1	--		--	
12	PREPARED SPACE	1	--			--
13,14,15	PREPARED SPACE	3	--	--	--	--
16,17,18	PREPARED SPACE	3	--	--	--	--
	TOTAL CONNECTED PHASE LOAD:			33817	32547	33143
	TOTAL PHASE AMPS:			283 A	271 A	277 A
	TOTAL CONNECTED LOAD:			99507		
	TOTAL AMPS:			276 A		

SERVICE LOAD CALCULATION

PANELBOARD CALCULATIONS ONLY INCLUDE ADDITIONAL LOADS FROM THE RENOVATION

PER NEC 220.87 CALCULATION OF FEEDER OR SERVICE LOAD FOR EXISTING INSTALLATIONS SHALL BE PERMITTED TO USE ACTUAL MAXIMUM DEMAND TO DETERMINE THE EXISTING LOAD IF 1 YEAR OF EXISTING MAX DEMAND LOAD IS AVAILABLE.

DEMAND METERING X POWER FACTOR ASSUMPTION X 125% + NEW LOAD = SERVICE LOAD SUMMARY
21KW / 0.85 X 1.25 = 30.88KVA + 99.507KVA = **130.389KVA OR 361.92A AT 208V 3 PHASE**

EXISTING PANELBOARD SCHEDULE

PANEL NAME: (E) A
LOCATION: I.T. / ELEC. 104
SOURCE: MDP
MOUNTING: SURFACE
VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
ENCLOSURE: TYPE 1
A.I.C. RATING: EXISTING
MAINS RATING: 400 A
MAINS TYPE: MAIN LUGS ONLY
EXISTING PANEL: EATON # PRL1A

CKT NO.	CIRCUIT DESIGNATION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESIGNATION	CKT NO.
1				0 VA / 0 VA						2
3	EXISTING	60 A	3		0 VA / 0 VA		3	50 A	EXISTING	4
5						0 VA / 0 VA				6
7				0 VA / 0 VA						8
9	EXISTING	20 A	3		0 VA / 0 VA		3	20 A	EXISTING	10
11						0 VA / 0 VA				12
13				0 VA / 0 VA						14
15	EXISTING	20 A	3		0 VA / 0 VA		3	30 A	EXISTING	16
17						0 VA / 0 VA				18
19				0 VA / 0 VA						20
21	EXISTING	60 A	3		0 VA / 0 VA		2	20 A	EXISTING	22
23						0 VA / 0 VA				24
25	(2*) NAC	20 A	1	100 VA / 0 VA			2	20 A	EXISTING	26
27	(1*) REC - WATER COOLER 121	20 A	1		360 VA / 100 VA		1	20 A	(2*) DAS	28
29	HVAC - HP-1	25 A	2			1410 VA / 50 VA	1	15 A	HVAC - RC	30
31				1410 VA / 100 VA			1	20 A	(2*) FACP	32
33					5000 VA / 500 VA		1	20 A	(2*) RFAP	34
35	WATER HEATER	60 A	3			5000 VA / 40 VA	1	20 A	LTG - UNISEX 131	36
37				5000 VA / 180 VA			1	20 A	REC - UNISEX 131	38
39	PREPARED SPACE	--	1		0 VA / 180 VA		1	20 A	(1*) REC - DISPLAY EXISTING LAB 117	40
41	PREPARED SPACE	--	1			0 VA / 0 VA	1	--	PREPARED SPACE	42
43				0 VA / 0 VA						44
45	(4*) (E) A1	200 A	3		0 VA / 0 VA		3	--	NOT USABLE	46
47						0 VA / 0 VA				48
	TOTAL PHASE LOAD:			6786 VA	6140 VA	6493 VA				
	TOTAL PHASE CURRENT:			57 A	51 A	55 A				
	PANEL TOTALS									
	TOTAL ADDITIONAL LOAD:	19419 VA								
	TOTAL ADDITIONAL CURRENT:	54 A								

EXISTING PANELBOARD SCHEDULE

PANEL NAME: (E) A1
LOCATION: I.T. / ELEC. 104
SUPPLY FROM: (E) A
MOUNTING: SURFACE
VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
ENCLOSURE: TYPE 1
A.I.C. RATING: EXISTING
MAINS RATING: 200 A
MAINS TYPE: MAIN CIRCUIT BREAKER
EXISTING PANEL: SQUARE D # SERIES G1

CKT NO.	CIRCUIT DESIGNATION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESIGNATION	CKT NO.
1	EXISTING	20 A	1	0 VA / 0 VA			1	20 A	EXISTING	2
3	EXISTING	60 A	2		0 VA / 0 VA		2	30 A	(E) SPARE	4
5						0 VA / 0 VA				6
7	EXISTING	50 A	2	0 VA / 0 VA			2	50 A	EXISTING	8
9					0 VA / 0 VA					10
11	EXISTING/EXISTING	20 A	1			0 VA / 0 VA	1	20 A	EXISTING	12
13	EXISTING	20 A	1	0 VA / 0 VA			1	20 A	EXISTING	14
15	EXISTING	20 A	1		0 VA / 0 VA		1	30 A	EXISTING	16
17	EXISTING	20 A	1			0 VA / 0 VA	1	20 A	EXISTING	18
19	EXISTING	20 A	1	0 VA / 0 VA			1	20 A	EXISTING	20
21	EXISTING	20 A	1		0 VA / 0 VA		1	20 A	EXISTING	22
23	EXISTING/EXISTING	20 A	1			0 VA / 0 VA	1	20 A	EXISTING	24
25	EXISTING	20 A	2	0 VA / 0 VA			1	20 A	EXISTING	26
27					0 VA / 0 VA		1	20 A	EXISTING	28
29	EXISTING/EXISTING	20 A	1			0 VA / 0 VA	1	20 A	EXISTING	30
31	EXISTING/EXISTING	20 A	1	0 VA / 0 VA			1	20 A	EXISTING/EXISTING	32
33	EXISTING	20 A	1		0 VA / 0 VA		1	20 A	EXISTING	34
35	EXISTING	20 A	1			0 VA / 0 VA	1	20 A	EXISTING	36
37	EXISTING	20 A	1	0 VA / 0 VA			2	30 A	EXISTING	38
39	EXISTING	30 A	1		0 VA / 0 VA					40
	TOTAL PHASE LOAD:			0 VA	0 VA	0 VA				
	TOTAL PHASE CURRENT:			0 A	0 A	0 A				
	PANEL TOTALS									
	TOTAL ADDITIONAL LOAD:	0 VA								
	TOTAL ADDITIONAL CURRENT:	0 A								

PANELBOARD SCHEDULE

PANEL NAME: B
LOCATION: STORAGE / TOOLCRIB 129
SOURCE: MDP
MOUNTING: SURFACE
VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
ENCLOSURE: TYPE 1
A.I.C. RATING: 10000
MAINS RATING: 400 A
MAINS TYPE: MAIN CIRCUIT BREAKER

CKT NO.	CIRCUIT DESIGNATION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESIGNATION	CKT NO.
1	BAYDOOR 121	20 A	1	100 VA / 480 VA			1	20 A	LTG - CLASRM 124,MECH 122,OFF 120	2
3	HVAC - DAMPER	20 A	1		150 VA / 720 VA		1	20 A	REC - AUTO LAB 121	4
5	LTG - EXIT SIGNS, EXTERIOR	20 A	1			440 VA / 840 VA	1	20 A	LTG - AUTO LAB 121	6
7	REC - AUTO LAB 121	20 A	1	900 VA / 1170 VA			1	20 A	LTG - AUTO LAB 121	8
9	REC - MECH 122, OFF 120, TOOL 129	20 A	1		1260 VA / 1340 VA		1	20 A	RFAD-1	10
11	REC - EXTERIOR	20 A	1			720 VA / 1800 VA	1	20 A	REC - CLASSRM 124	12
13	REC - AUTO LAB 121	20 A	1	1260 VA / 100 VA			1	20 A	BAYDOOR 121	14
15	REC - CLASSRM 124	20 A	1		1440 VA / 1440 VA		1	20 A	REC - EXTERIOR	16
17	BAYDOOR 121	20 A	1			100 VA / 2700 VA	2	30 A	HVAC - AHU-1	18
19	HVAC - MSHP-1	25 A	2	80 VA / 2700 VA						20
21					80 VA / 100 VA		1	20 A	BAYDOOR 121	22
23	REC - DISPLAY AUTOLAB 121	20 A	1			180 VA / 180 VA	1	20 A	(1*) REC - DOAU SERVICE REC	24
25	REC - DISPLAY CLASSRM 124	20 A	1	180 VA / 180 VA			1	20 A	(1*) DROPDOWN REC - AUTO LAB 121	26
27	(1*) DROPDOWN REC - AUTO LAB 121	20 A	1		180 VA / 180 VA		1	20 A	(1*) REC - DISPLAY AUTOLAB 121	28
29	(1*) DROPDOWN REC - AUTO LAB 121	20 A	1			180 VA / 710 VA	3	15 A	(1*) DROPDOWN CNECTR - CAR LIFT 121	30
31	(1*) DROPDOWN REC - AUTO LAB 121	20 A	1	180 VA / 710 VA						32
33	(1*) DROPDOWN CNECTR - CAR LIFT 121	15 A	3		710 VA / 710 VA					34
35						710 VA / 710 VA				36
37				710 VA / 710 VA			3	15 A	(1*) DROPDOWN CNECTR - CAR LIFT 121	38
39	(1*) DROPDOWN CNECTR - CAR LIFT 121	15 A	3		710 VA / 710 VA					40
41						710 VA / 3870 VA				42
43				710 VA / 3870 VA			3	45 A	AC-2	44
45	DOAU CONTROL PANEL	20 A	1		0 VA / 3870 VA					46
47	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE	48
49	SPARE	20 A	1	0 VA / 0 VA			1	20 A	SPARE	50
51	SPARE	20 A	1		0 VA / 0 VA		1	20 A	SPARE	52
53	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE	54
55	SPARE	20 A	1	0 VA / 0 VA			1	20 A	SPARE	56
57	SPARE	20 A	1		0 VA / 0 VA		1	20 A	SPARE	58
59	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE	60
61	SPARE	20 A	1	0 VA / 0 VA			1	20 A	SPARE	62
63	SPARE	20 A	1		0 VA / 0 VA		1	20 A	SPARE	64
65	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE	66
67	SPARE	20 A	1	0 VA / 0 VA			1	20 A	SPARE	68
69	SPARE	20 A	1		0 VA / 0 VA		1	20 A	SPARE	70
71	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE	72
	TOTAL PHASE LOAD:			14038 VA	13594 VA	13836 VA				
	TOTAL PHASE CURRENT:			117 A	113 A	116 A				
	PANEL TOTALS									
	TOTAL CONNECTED LOAD:	41468 VA								
	TOTAL CONNECTED CURRENT:	115 A								

PANEL SCHEDULE NOTES

(1*) PROVIDE GFCI TYPE CIRCUIT BREAKER.
(2*) PROVIDE CIRCUIT BREAKER WITH A RED FIRE ALARM CIRCUIT BREAKER LOCKOUT KIT THAT PERMANENTLY IDENTIFIES CIRCUIT AS "FIRE ALARM".
(3*) NOT USED
(4*) EXISTING SUBFED BREAKER

PANEL SCHEDULE KEY	
MDP	B
(E) A	
(E) A1	

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Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
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2050 HIGHWAY 501 EAST
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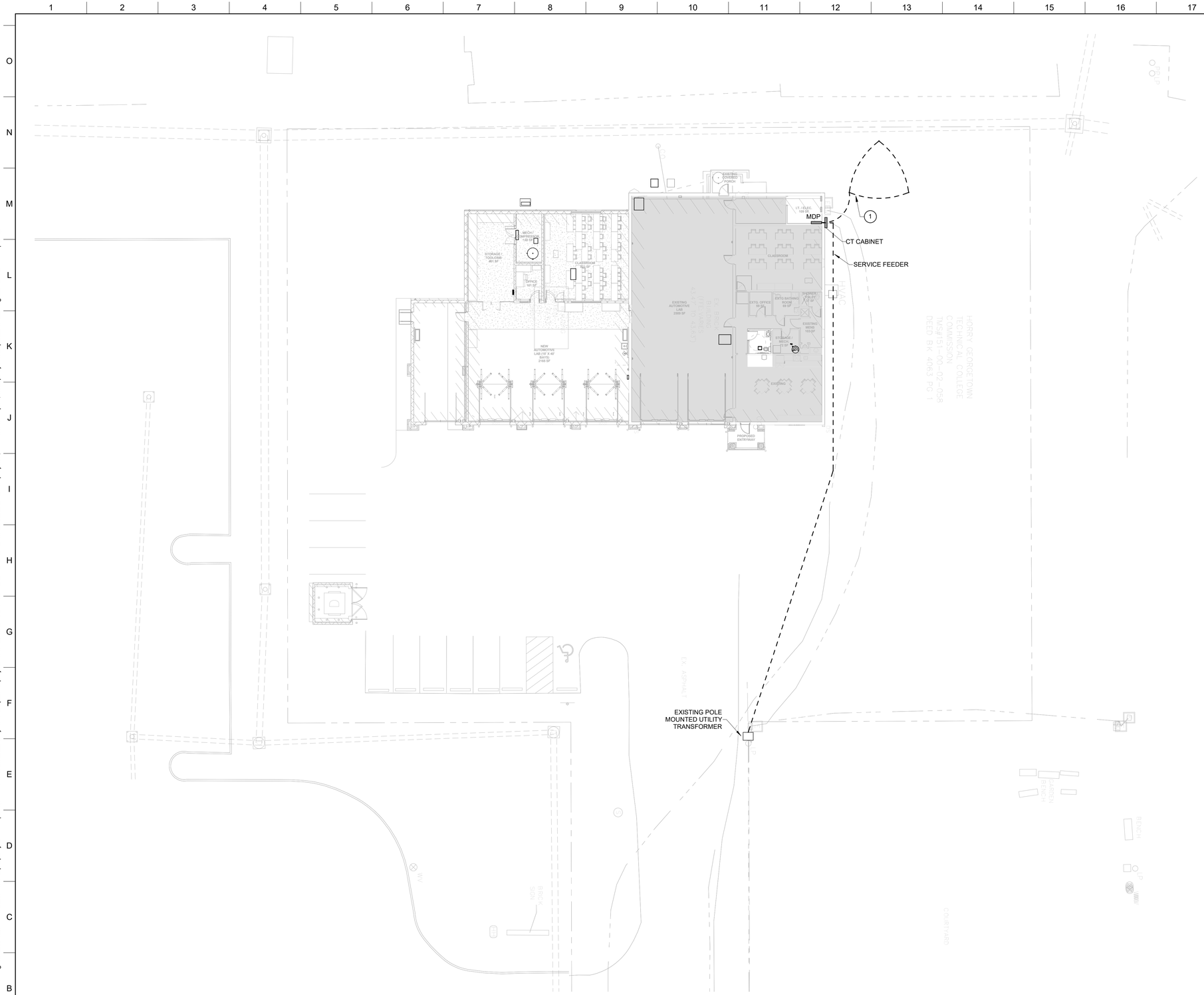
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CHECKED: MHS

SHEET TITLE
ELECTRICAL PANEL SCHEDULES (4 BAY)

SHEET NO.
E-051

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1 SITE PLAN - LEVEL 1
E-100 SCALE: 1/16" = 1'-0"

RENOVATION KEYNOTES

1 THE GROUND ROD CLUSTER FOR THE SERVICE GROUNDS SHALL CONSIST OF THREE 3/4" X 10'-0" COPPER CLAD STEEL GROUND RODS. THEY SHALL BE DRIVEN A MINIMUM OF 20' APART AND INTERCONNECTED IN DELTA WITH A BARE COPPER CONDUCTOR. REFER TO ONE-LINE DIAGRAM FOR GROUNDING ELECTRODE CONDUCTOR SIZE. TOPS OF THE RODS SHALL BE 12" BELOW FINISHED GRADE. CONNECTION TO THE RODS SHALL BE WITH EXOTHERMIC WELDS. PROVIDE GROUND ROD TEST WELL FOR ROD CLOSEST TO THE BUILDING.

GRAPHIC SCALE
0 8' 16' 32' 64'
Scale: 1/16" = 1'-0"
N

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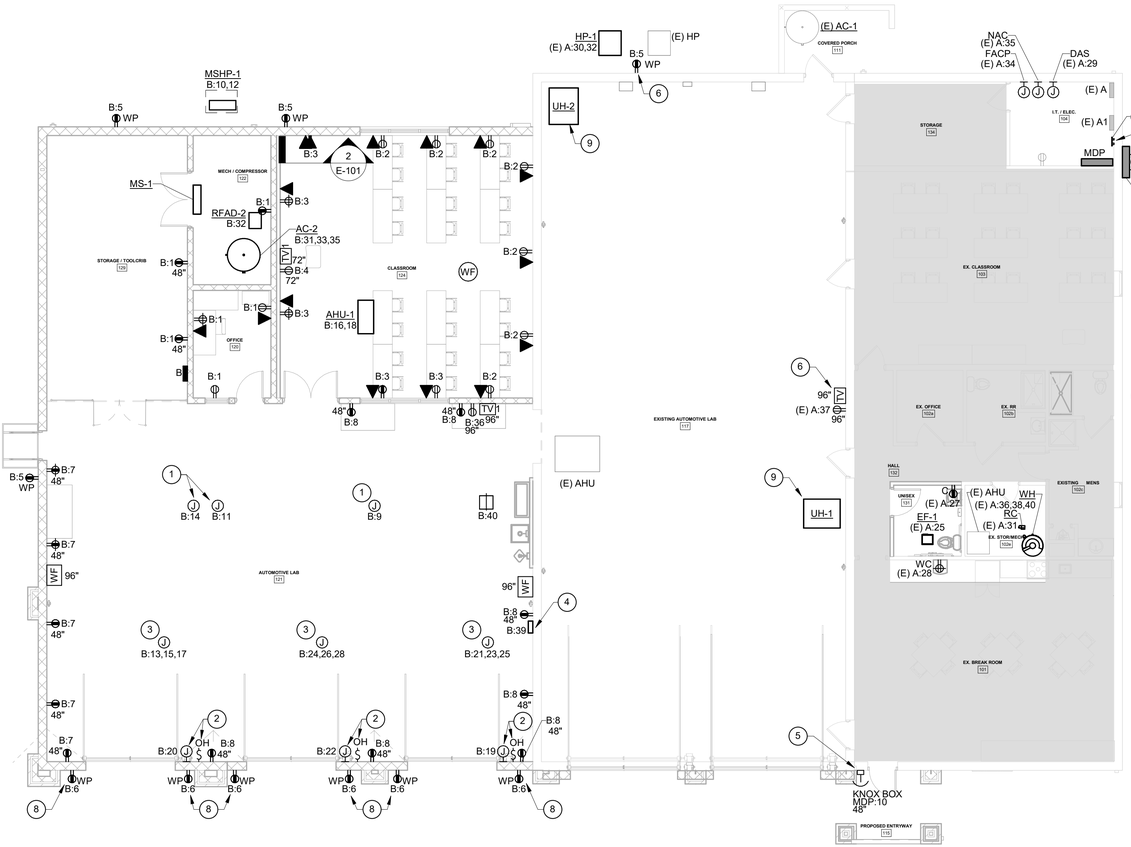
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SHEET TITLE
ELECTRICAL SITE PLAN

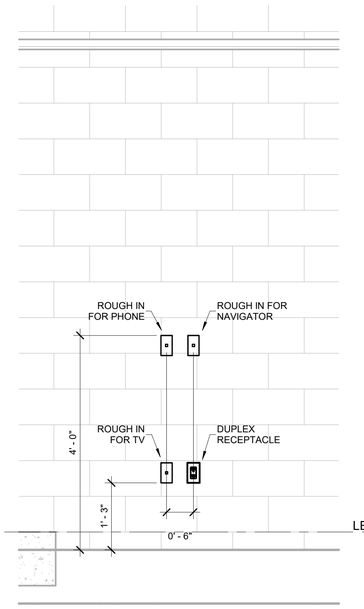
SHEET NO.
E-100

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1 E-101 BASE BID - LEVEL 1 - POWER & TELECOM PLAN
SCALE: 1/8" = 1'-0"



2 E-101 PODIUM ELECTRICAL LAYOUT (3 BAY)
SCALE: 3/4" = 1'-0"

RENOVATION KEYNOTES

1. CEILING MOUNTED JUNCTION BOX FOR CONNECTED CORD REEL HUNG FROM OPEN CEILING. PROVIDE HUBBELL RETRACTABLE HOSE REEL WITH DUPLEX RECEPTACLE AND ALL NECESSARY SUPPORTS.
2. PROVIDE NFDS: 30A / 1P / NEMA 1 FOR OVERHEAD DOOR OPERATOR, LOCATED WITHIN SIGHT OF OVERHEAD DOOR OPERATOR. PROVIDE FINAL CONNECTION TO OPERATOR AND DISCONNECT. INSTALL NEW OVERHEAD DOOR CONTROLLER. PROVIDE REQUIRED WIRE AND CONDUIT BETWEEN CONTROLLER AND OVERHEAD DOOR MOTOR. COORDINATE EXACT LOCATION AND WIRING REQUIREMENTS WITH OVERHEAD DOOR SHOP DRAWINGS.
3. CEILING MOUNTED JUNCTION BOX FOR CONNECTED CORD REEL HUNG FROM OPEN CEILING. PROVIDE HUBBELL RETRACTABLE HOSE REEL WITH NEMA L14-20R CONNECTOR AND ALL NECESSARY SUPPORTS.
4. DOAU CONTROL PANEL. COORDINATE FINAL LOCATION WITH ARCHITECT OR OWNER.
5. PROVIDE SHUNT TRIP KNOX BOX. BOD: KNOX REMOTE POWER BOX # 4505.
6. RECEPTACLE SHALL BE SURFACE MOUNTED. COORDINATE FINAL LOCATION WITH ARCHITECT AND OWNER.
7. NEW LOCATION FOR EXISTING TGBB THAT WAS REMOVED DURING DEMOLITION PHASE.
8. PROVIDE FLUSH, RECESSED WHILE IN USE, WATERPROOF BOX FOR GFCI RECEPTACLE
9. RECONNECT NEW GAS HEATER TO EXISTING POWER PREVIOUSLY SERVING DEMOLISHED HEATER.

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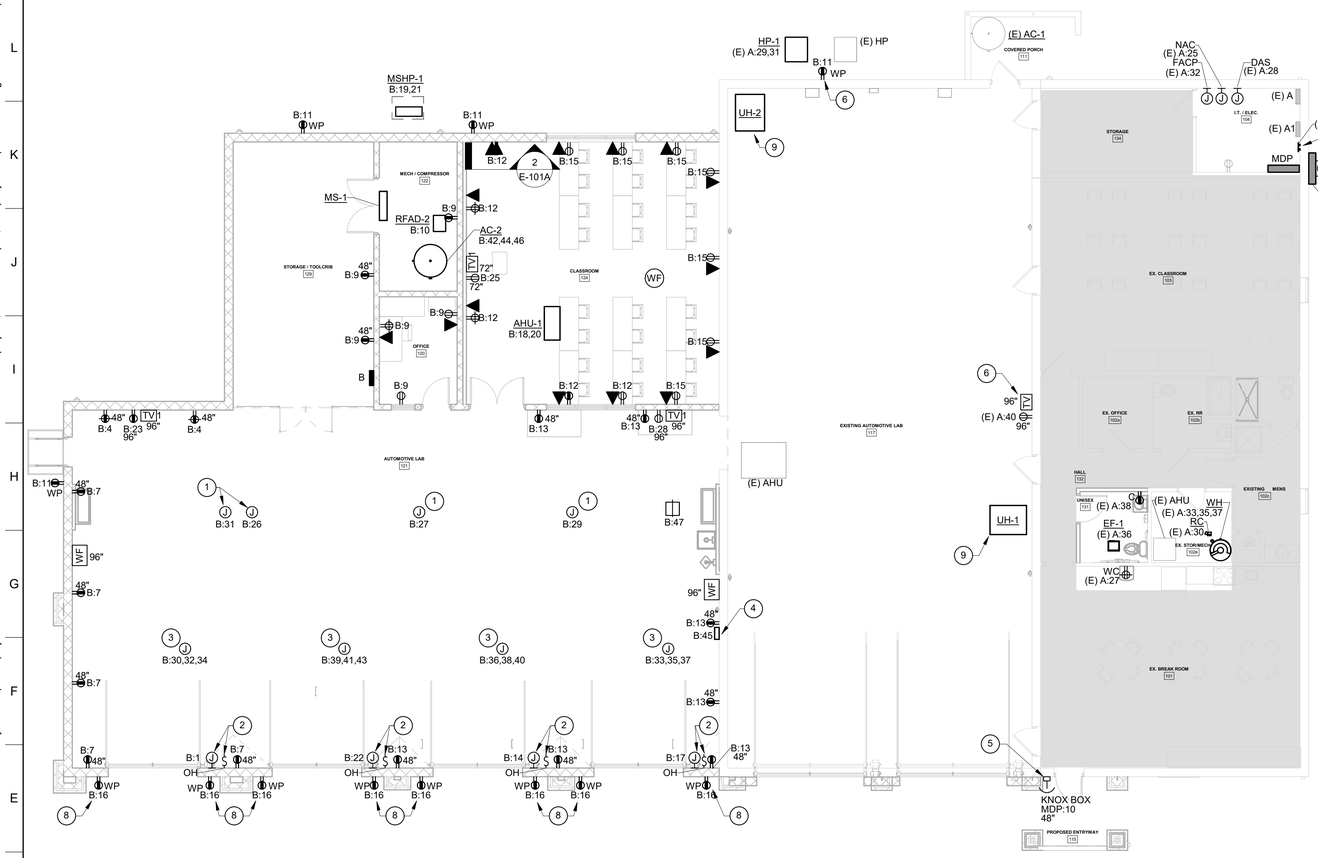
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SHEET TITLE
BASE BID - LEVEL 1 POWER & TELECOM PLAN

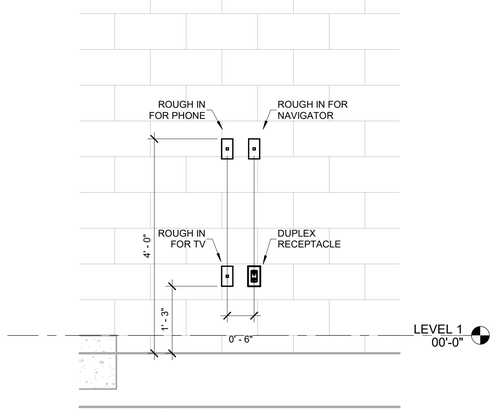
SHEET NO.
E-101

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1 E-101A ALTERNATE 1 - LEVEL 1 - POWER & TELECOM PLAN
SCALE: 1/8" = 1'-0"



2 E-101A PODIUM ELECTRICAL LAYOUT (4 BAY)
SCALE: 3/4" = 1'-0"

RENOVATION KEYNOTES

1. CEILING MOUNTED JUNCTION BOX FOR CONNECTED CORD REEL HUNG FROM OPEN CEILING. PROVIDE HUBBELL RETRACTABLE HOSE REEL WITH DUPLEX RECEPTACLE AND ALL NECESSARY SUPPORTS.
2. PROVIDE NFDS: 30A / 1P / NEMA 1 FOR OVERHEAD DOOR OPERATOR, LOCATED WITHIN SIGHT OF OVERHEAD DOOR OPERATOR. PROVIDE FINAL CONNECTION TO OPERATOR AND DISCONNECT. INSTALL NEW OVERHEAD DOOR CONTROLLER. PROVIDE REQUIRED WIRE AND CONDUIT BETWEEN CONTROLLER AND OVERHEAD DOOR MOTOR. COORDINATE EXACT LOCATION AND WIRING REQUIREMENTS WITH OVERHEAD DOOR SHOP DRAWINGS.
3. CEILING MOUNTED JUNCTION BOX FOR CONNECTED CORD REEL HUNG FROM OPEN CEILING. PROVIDE HUBBELL RETRACTABLE HOSE REEL WITH NEMA L14-20R CONNECTOR AND ALL NECESSARY SUPPORTS.
4. DOAU CONTROL PANEL. COORDINATE FINAL LOCATION WITH ARCHITECT OR OWNER.
5. PROVIDE SHUNT TRIP KNOX BOX. BOD: KNOX REMOTE POWER BOX # 4505.
6. RECEPTACLE SHALL BE SURFACE MOUNTED. COORDINATE FINAL LOCATION WITH ARCHITECT AND OWNER.
7. NEW LOCATION FOR EXISTING TGBB THAT WAS REMOVED DURING DEMOLITION PHASE.
8. PROVIDE FLUSH, RECESSED WHILE IN USE, WATERPROOF BOX FOR GFCI RECEPTACLE.
9. RECONNECT NEW GAS HEATER TO EXISTING POWER PREVIOUSLY SERVING DEMOLISHED HEATER.

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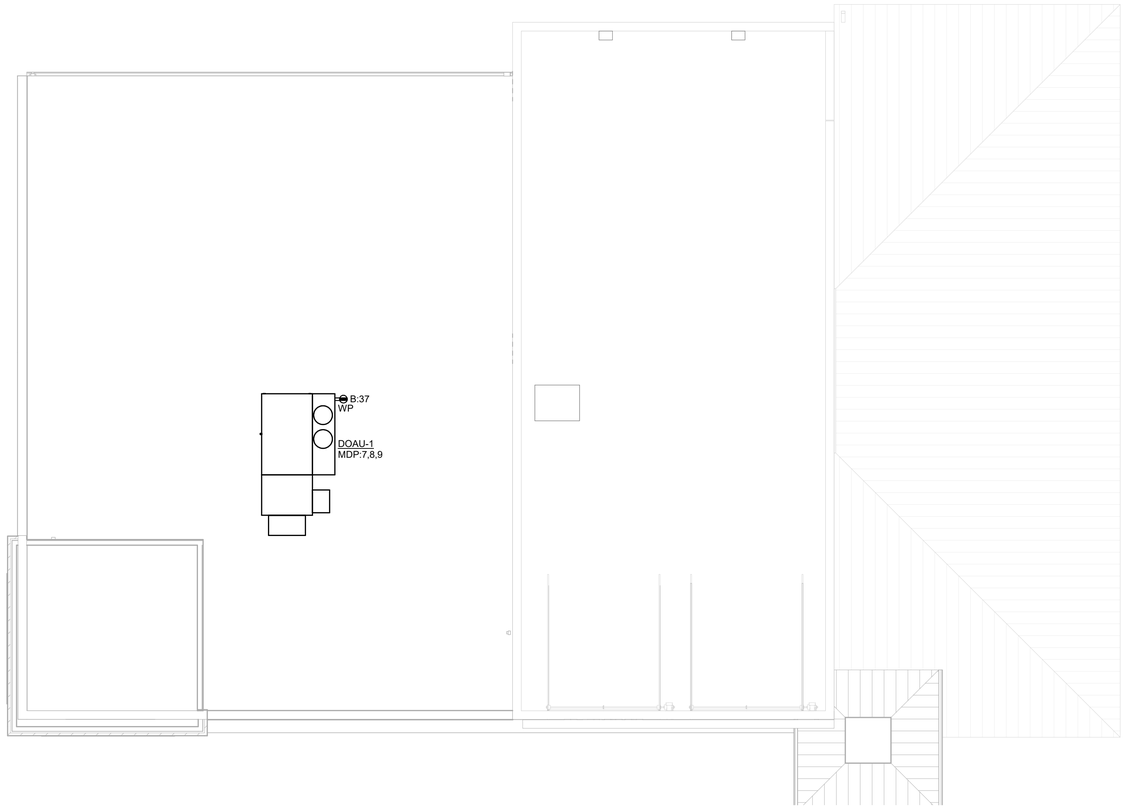
PROJECT NUMBER
2025-2006

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SHEET TITLE
ALTERNATE 1 - LEVEL 1 POWER & TELECOM PLAN (4TH BAY)

SHEET NO.
E-101A

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



1 E-102 BASE BID - LEVEL 1 - POWER & TELECOM PLAN
SCALE: 1/8" = 1'-0"

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SHEET TITLE
BASE BID - ROOF LEVEL POWER & TELECOM PLAN

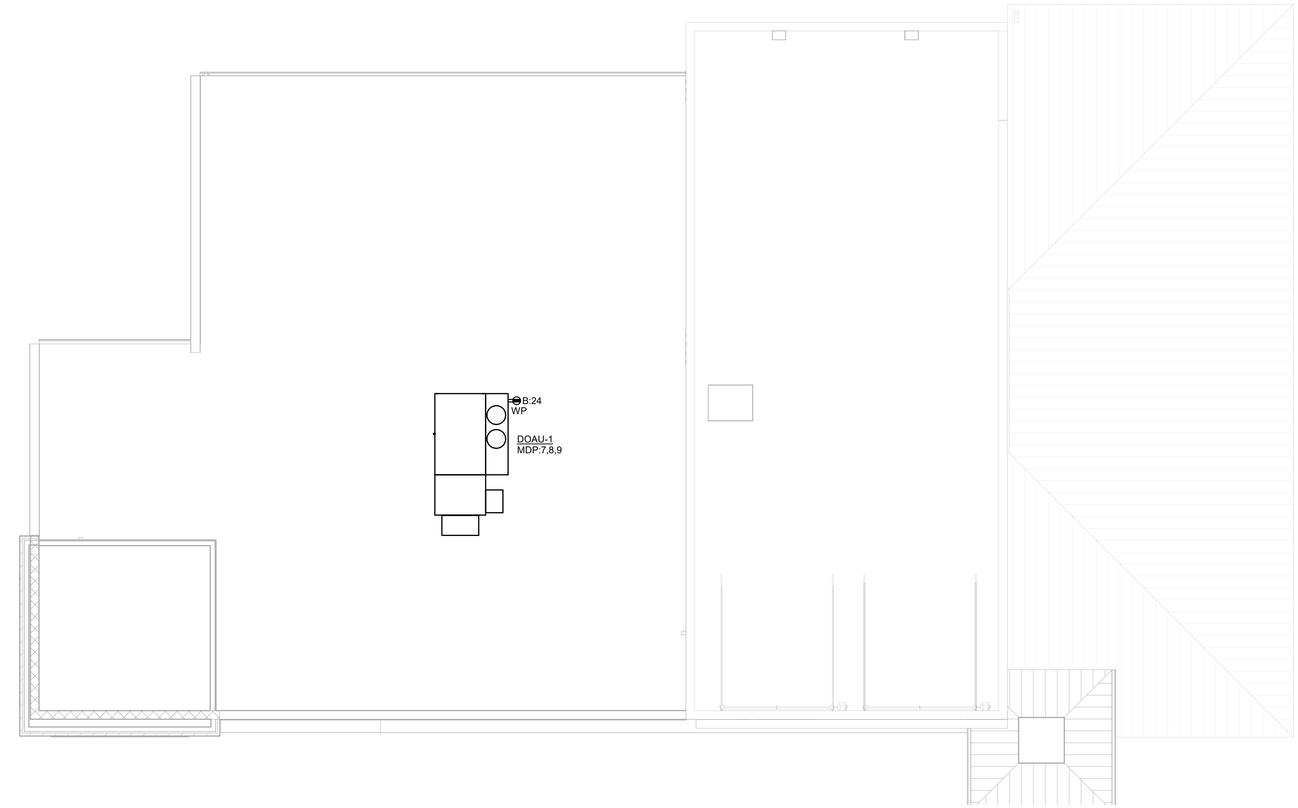
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1 E-102A ALTERNATE 1 - ROOF POWER & TELECOM PLAN
SCALE: 1/8" = 1'-0"

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SHEET TITLE
ALTERNATE 1 - ROOF LEVEL POWER & TELECOM PLAN (4TH BAY)

SHEET NO.
E-102A

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1 BASE BID - LEVEL 1 - LIGHTING RENOVATION PLAN
E-201 SCALE: 1/8" = 1'-0"

RENOVATION KEYNOTES

1. PHOTOCELL FOR NEW EXTERIOR LIGHTING FIXTURES.
2. PROVIDE ASTRONOMICAL TIMECLOCK CONTROLLER FOR SCHEDULING CONTROL OF AUTOMOTIVE LAB CIRCUITS B:XX,B:XX,B:XX AND EXTERIOR LIGHTING CIRCUIT B:31. EXTERIOR LIGHTING CONTROL CIRCUIT SHALL HAVE AN PHOTOCELL INTERCEPT. BOD: INTERMATIC # ET8415CR.
3. PROVIDE SWITCH WITH PREVIOUSLY RECORDED SWITCHLEG UNLESS SWITCHLEG WAS DEMOLISHED.
4. PROVIDE 2 HOUR TIMER SWITCH FOR INTERIOR LIGHTING TIMECLOCK OVERRIDE. WIRE TO TIMECLOCK CONTACTS TO BYPASS THE TIMECLOCK SCHEDULING.

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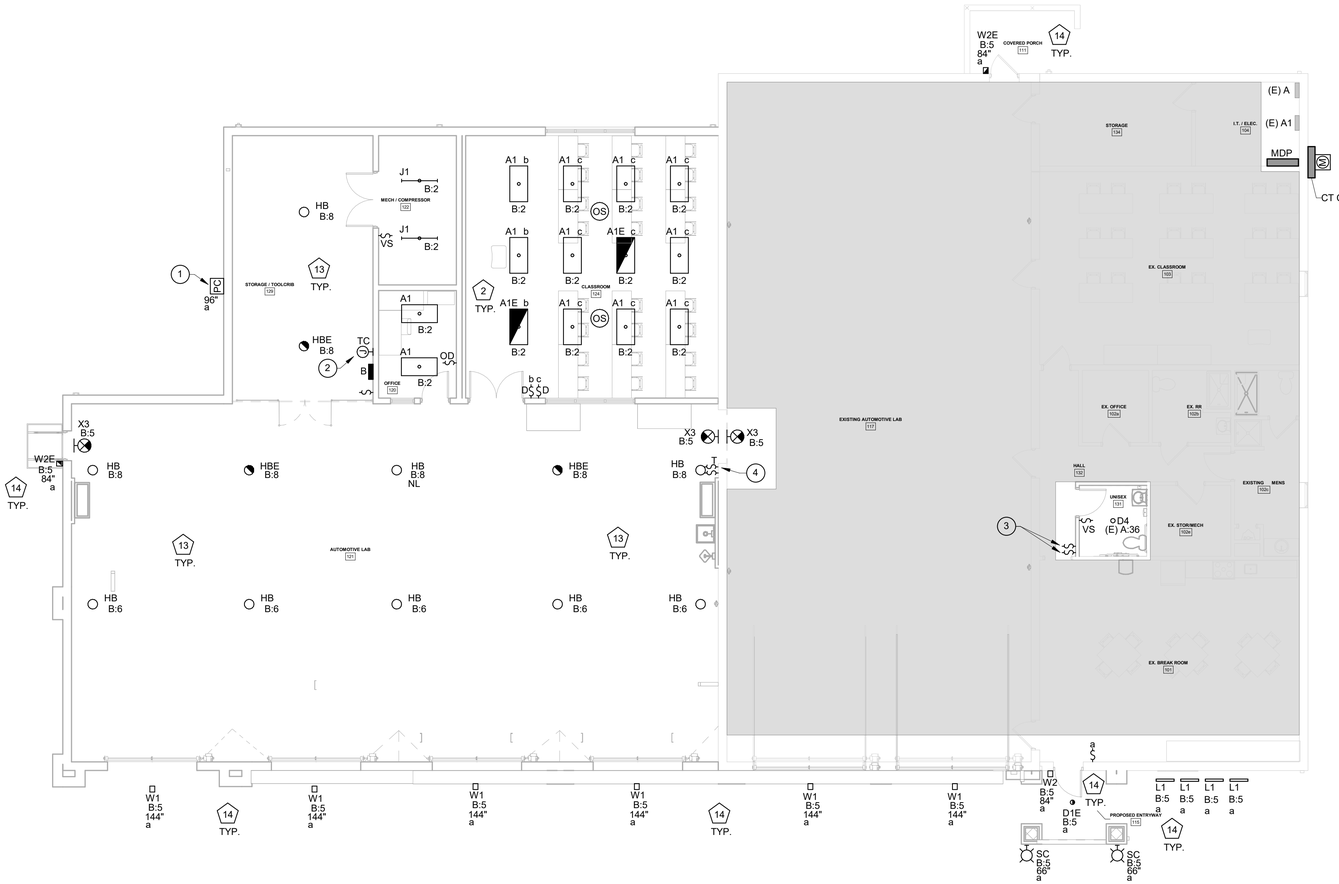
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BASE BID - LEVEL 1 LIGHTING PLAN

SHEET NO.
E-201

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1 E-201A ALTERNATE 1 - LEVEL 1 - LIGHTING RENOVATION PLAN

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

RENOVATION KEYNOTES

1. PHOTOCELL FOR NEW EXTERIOR LIGHTING FIXTURES.
2. PROVIDE ASTRONOMICAL TIMECLOCK CONTROLLER FOR SCHEDULING CONTROL OF AUTOMOTIVE LAB CIRCUITS B:XX,B:XX,B:XX AND EXTERIOR LIGHTING CIRCUIT B:31. EXTERIOR LIGHTING CONTROL CIRCUIT SHALL HAVE AN PHOTOCELL INTERCEPT. BOD: INTERMATIC # ET8415CR.
3. PROVIDE SWITCH WITH PREVIOUSLY RECORDED SWITCHLEG UNLESS SWITCHLEG WAS DEMOLISHED.
4. PROVIDE 2 HOUR TIMER SWITCH FOR INTERIOR LIGHTING TIMECLOCK OVERRIDE. WIRE TO TIMECLOCK CONTACTS TO BYPASS THE TIMECLOCK SCHEDULING.

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SHEET TITLE
ALTERNATE 1 - LEVEL 1 LIGHTING PLAN (4TH BAY)

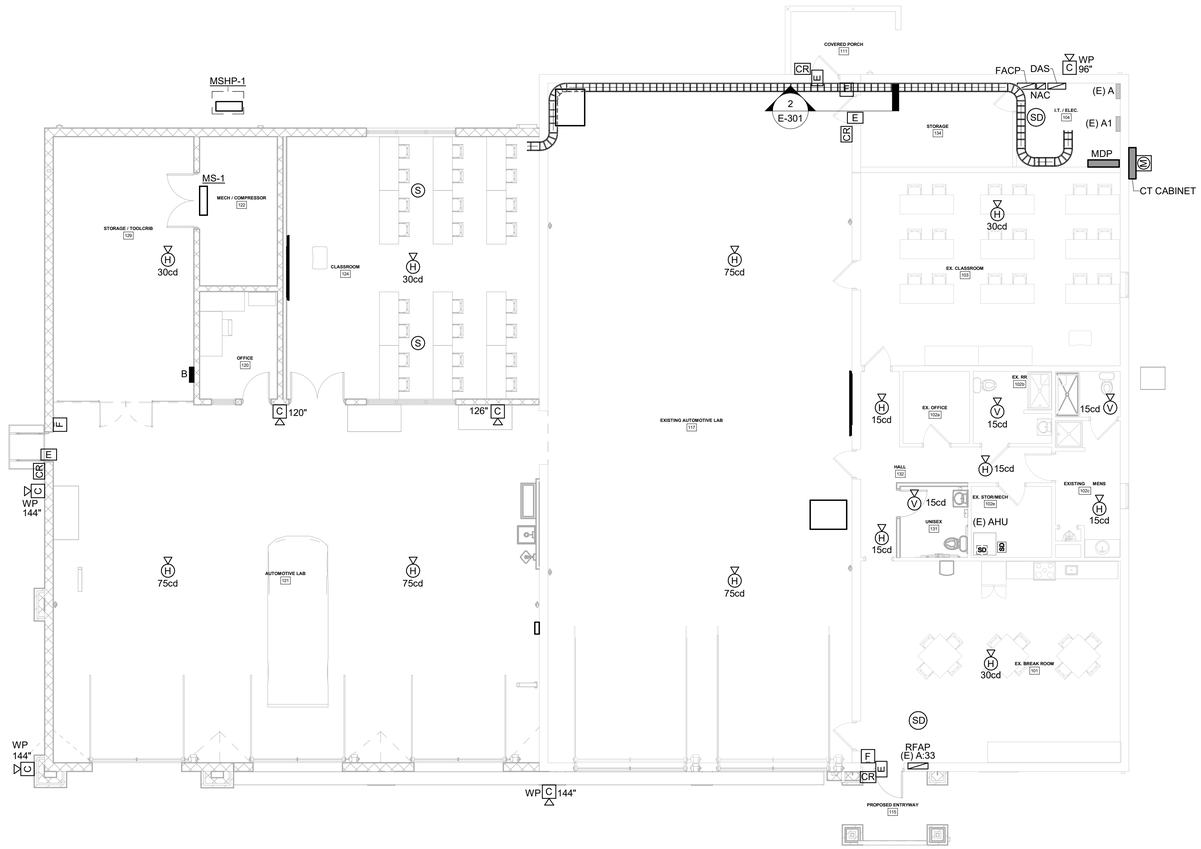
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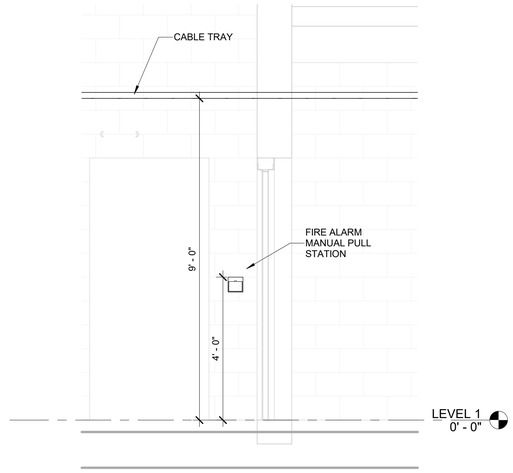
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1 E-301 BASE BID - LEVEL 1 - SYSTEMS RENOVATION PLAN
SCALE: 1/8" = 1'-0"



2 E-301 FIRE ALARM PULL STATION VIEW (3 BAY)
SCALE: 1/2" = 1'-0"

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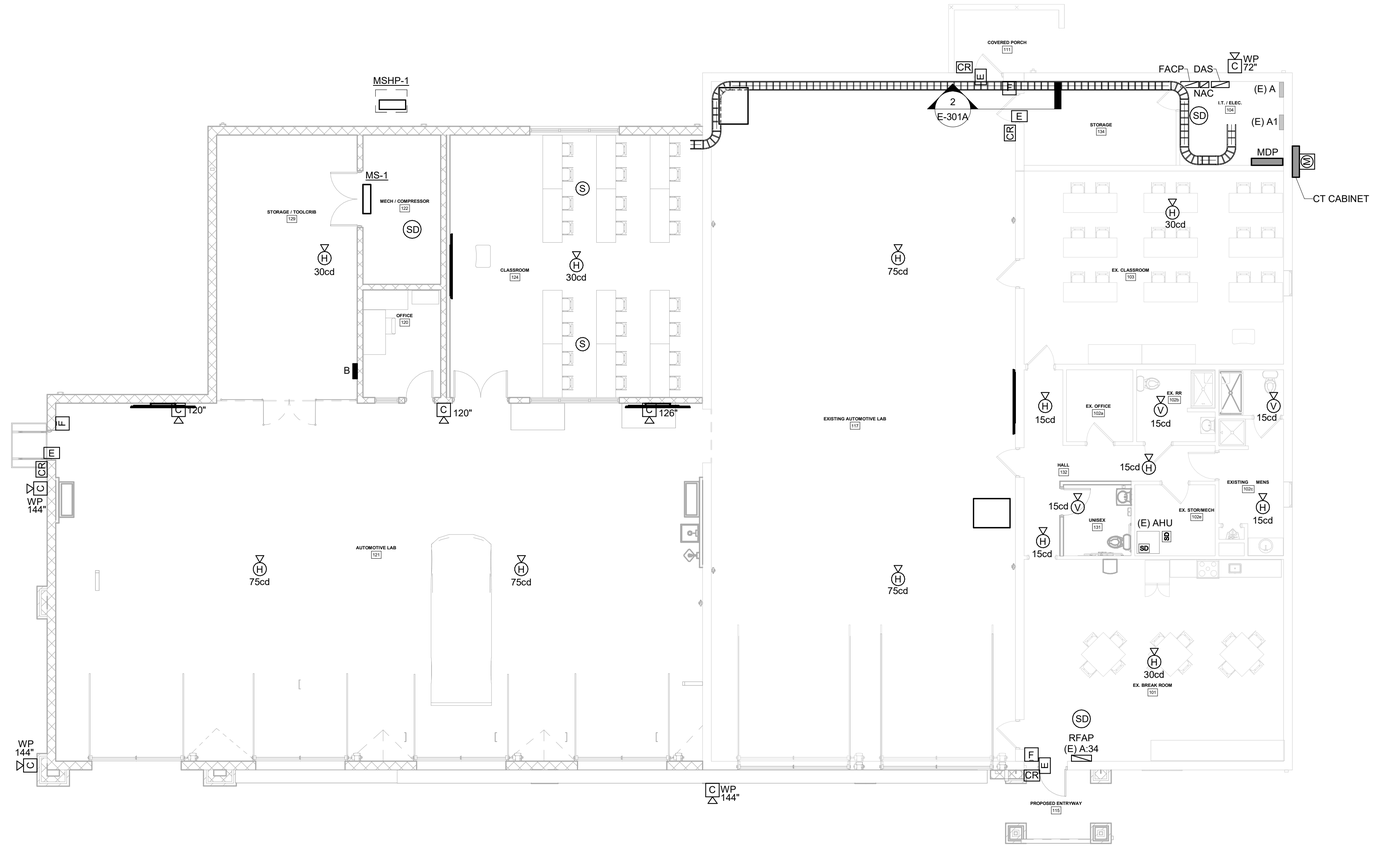
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CHECKED: MHS

SHEET TITLE
BASE BID - LEVEL 1 SYSTEMS PLAN

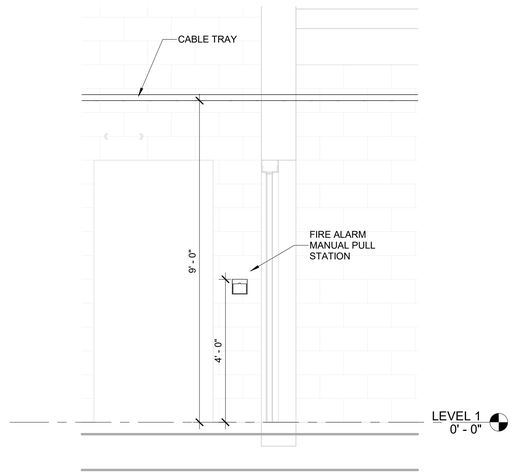
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Scale: 1/16" = 1'-0"

SHEET NO.
E-301

THIS SHEET PLOTS ON 24"x36" ARCH D
0 1/2" 1" 2" 3"
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1 E-301A ALTERNATE 1 - LEVEL 1 - SYSTEMS RENOVATION PLAN
SCALE: 1/8" = 1'-0"



2 E-301A FIRE ALARM PULL STATION VIEW (4 BAY)
SCALE: 1/2" = 1'-0"

GRAPHIC SCALE
0 8' 16' 32' 64'
Scale: 1/16" = 1'-0"
N

PMH CROFT
ARCHITECTS & ENGINEERS
1300 Professional Drive, Suite 201
Mytle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
www.pmhcroft.com

DWG CONSULTING ENGINEERS
EMPLOYEE OWNED
1009 Anna Knapp Blvd., Suite 200
Mt. Pleasant, SC 29464
843-849-1141

OWNER
HORRY GEORGETOWN TECHNICAL COLLEGE
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

HORRY GEORGETOWN TECHNICAL COLLEGE

PROJECT NAME
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CONWAY,SC 29526

H59-N302-CB

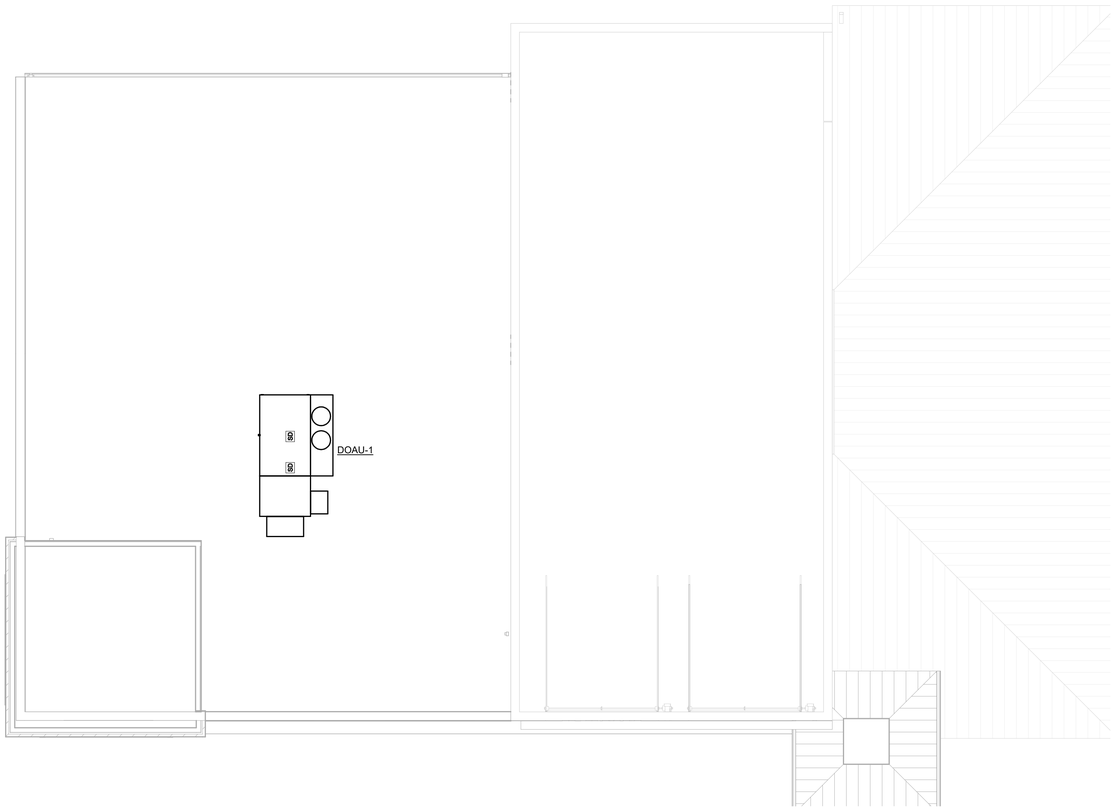
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PROJECT NUMBER
2025-2006

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SHEET TITLE
ALTERNATE 1 - LEVEL 1 SYSTEMS PLAN (4TH BAY)

SHEET NO.
E-301A



1 / E-302 BASE BID - LEVEL 1 - SYSTEMS RENOVATION PLAN
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1300 Professional Drive, Suite 201
Mytle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
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Mt. Pleasant, SC 29464
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HORRY GEORGETOWN TECHNICAL COLLEGE
2050 HIGHWAY 501 EAST
CONWAY, SOUTH CAROLINA 29526

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PROJECT NUMBER
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SHEET TITLE
BASE BID - ROOF LEVEL SYSTEMS PLAN

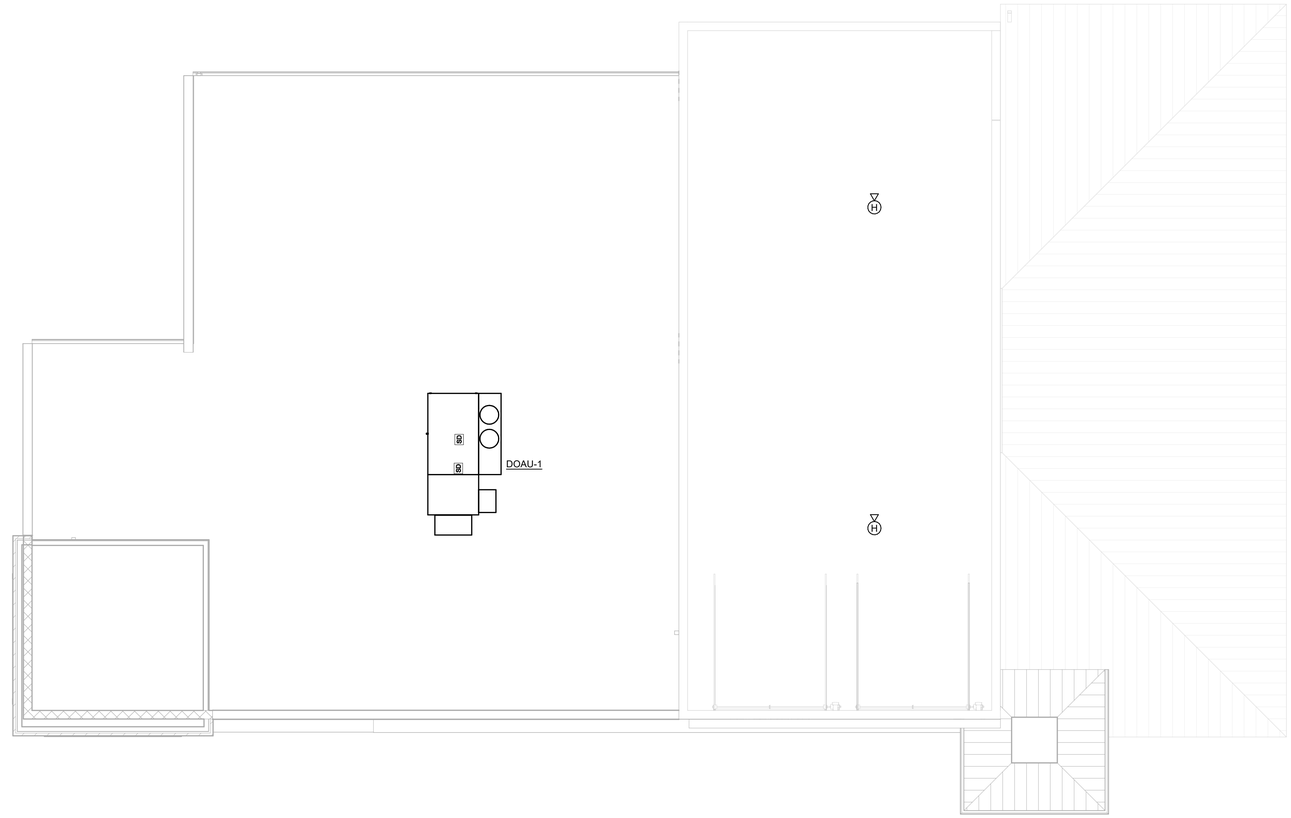
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1 E-302A ALTERNATE 1 - LEVEL 1 - SYSTEMS RENOVATION PLAN
SCALE: 1/8" = 1'-0"

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ARCHITECTS & ENGINEERS
1300 Professional Drive, Suite 201
Mytle Beach, South Carolina 29577
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SHEET TITLE
ALTERNATE 1 - ROOF LEVEL SYSTEMS PLAN (4TH BAY)

SHEET NO.
E-302A

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GRAPHIC SCALE
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