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SURVEY BENCHMARK

BENCHMARK IS LOCAL TO SITE.
SEE SHEET C1.00 FOR BENCHMARK INFORMATION.
VERTICAL DATUM BASED ON NAVD 88.

CONFORMED CONSTRUCTION DOCUMENTS

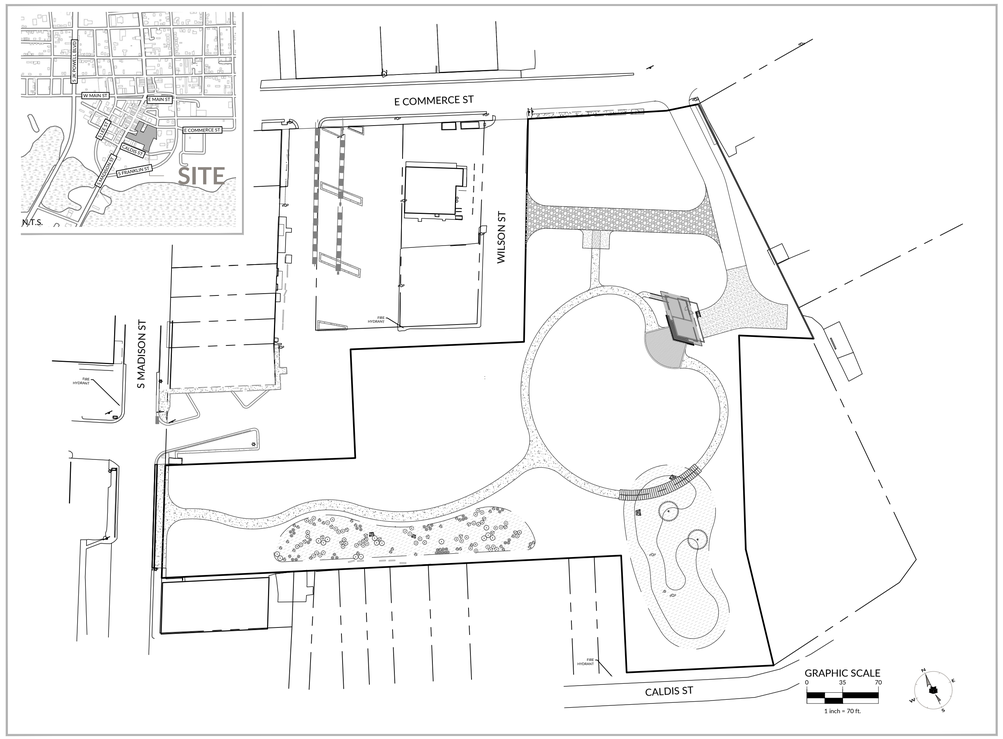
WHITEVILLE COMMUNITY SPACE

907 S MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

AUGUST 25, 2025

SITE DATA TABLE

DEVELOPMENT PROPERTY	WHITEVILLE COMMUNITY SPACE
DATE	JANUARY 2025
PARCEL PIN NO.	0280.02-97-6528.000
PARCEL TAX ID	4943
TOTAL PROJECT AREA (ACRES)	3.82
RIVER BASIN	LUMBER
WATERSHED	WHITE MARSH
EXISTING ZONING & LAND USE	BUSINESS (B-1)
PROPOSED USE	OPEN SPACE (O-S)
OWNER	CITY OF WHITEVILLE
OWNER ADDRESS	317 S MADISON ST
OWNER PHONE NUMBER	910-207-7997
APPLICANT	WITHERSRAVENEL
APPLICANT PHONE NUMBER	919-469-3340
DEED REFERENCE	1266/492
EFFECTIVE DATE	6/2/2006
FLOODPLAIN MAP NUMBER	3720028000J
PARKING REQUIREMENTS	N/A
EXISTING IMPERVIOUS	130,608 SF
PROPOSED IMPERVIOUS	80,914 SF
SETBACKS	FRONT: 0', SIDE: 0', REAR: 10'



SHEET LIST TABLE	
SHEET NUMBER	SHEET NAME
C0.00	COVER
C0.01	GENERAL NOTES
C1.00	EXISTING CONDITIONS
C2.00	DEMOLITION PLAN
C3.00	OVERALL SITE PLAN (FUTURE BUILD OUT)
C3.01	SITE PLAN
C4.00	GRADING PLAN
C5.00	EROSION CONTROL PLAN
C5.01	NCG01 & EROSION CONTROL NOTES
C5.02	EROSION CONTROL DETAILS
C5.03	EROSION CONTROL DETAILS
C5.04	EROSION CONTROL DETAILS
C6.00	UTILITY PLAN
C7.00	STORM DRAINAGE PLAN
C7.01	STORM DRAINAGE DETAILS
C8.01	SCM 1 PLAN & PROFILE
C8.02	SCM 2 PLAN & PROFILE
C8.03	SCM DETAILS
C9.00	SITE DETAILS
C9.01	SITE DETAILS
L1.01	LANDSCAPE PLAN
L2.00	LANDSCAPE NOTES & DETAILS
A0.01	ABBREVIATIONS, SYMBOLS & MOUNTING HEIGHTS
A0.02	CODE SUMMARY BANDSHELL
A0.04	CODE SUMMARY COMFORT STATION
A2.00	FLOOR PLAN BANDSHELL
~~A2.02~~	~~FLOOR PLAN COMFORT STATION~~
A2.20	RCP BANDSHELL
~~A2.22~~	~~RCP COMFORT STATION~~
A2.30	ROOF PLAN BANDSHELL
~~A2.32~~	~~ROOF PLAN COMFORT STATION~~
A3.00	ELEVATIONS BANDSHELL
~~A3.02~~	~~ELEVATIONS/SECTIONS COMFORT STATION~~
A4.00	BUILDING SECTIONS BANDSHELL
A4.10	BUILDING SECTIONS BANDSHELL
A4.11	BUILDING SECTIONS BANDSHELL
A4.12	BUILDING SECTIONS BANDSHELL
A4.13	BUILDING SECTIONS BANDSHELL
~~A4.30~~	~~SECTION DETAILS COMFORT STATION~~
~~A4.31~~	~~SECTION DETAILS COMFORT STATION~~
A5.00	INT. ELEVATIONS HEAD/JAM/SILL DETAILS BANDSHELL
~~A5.02~~	~~INTERIOR ELEV COMFORT STATION~~
S0.00	COVER SHEET
S0.01	GENERAL NOTES - BANDSHELL
S0.02	GENERAL NOTES - BANDSHELL
S1.01	FOUNDATION PLAN - BANDSHELL
S1.02	SLAB PLAN - BANDSHELL
S1.03	FRAMING PLAN - BANDSHELL
~~S1.11~~	~~FOUNDATION PLAN - COMFORT STATION~~
~~S1.12~~	~~SLAB PLAN - COMFORT~~
~~S1.13~~	~~FRAMING PLAN - COMFORT~~
S3.01	SECTIONS
S3.02	SECTIONS
S3.11	SECTIONS
S3.12	SECTIONS
S5.01	TYPICAL DETAILS
S5.02	TYPICAL DETAILS
S5.03	TYPICAL DETAILS

SHEET LIST TABLE	
SHEET NUMBER	SHEET NAME
P0.01	PLUMBING LEGENDS AND NOTES
P0.02	PLUMBING LEGENDS AND NOTES
P0.04	PLUMBING SCHEDULES
P0.05	PLUMBING SCHEDULES
P2.00	PLUMBING NEW WORK PLANS
P2.01	PLUMBING NEW WORK PLANS
P4.00	PLUMBING RISER DIAGRAMS
P4.01	PLUMBING RISER DIAGRAMS
P5.00	PLUMBING RISER DIAGRAMS
P5.01	PLUMBING RISER DIAGRAMS
M0.01	MECHANICAL LEGENDS, AND NOTES
M0.02	MECHANICAL LEGENDS, AND NOTES
M0.03	MECHANICAL SCHEDULES, AND DETAILS
M0.04	MECHANICAL SCHEDULES, AND DETAILS
M2.00	MECHANICAL NEW WORK PLAN
M2.01	MECHANICAL NEW WORK PLAN
E0.00	ELECTRICAL LEGENDS & SCHEDULES
E0.01	ELECTRICAL NEW WORK PLANS
E0.02	ELECTRICAL NOTES & SCHEDULES
E0.03	ELECTRICAL NOTES & SCHEDULES
E1.00	ELECTRICAL SITE PLAN
E1.01	ELECTRICAL SITE PLAN
E2.00	ELECTRICAL NEW WORK PLANS
E2.01	ELECTRICAL NEW WORK PLANS
E4.00	ELECTRICAL RISER, DETAILS & SCHEDULES,
E4.01	ELECTRICAL RISER, DETAILS & SCHEDULES,
E5.00	DETAILS
E5.01	DETAILS

CONTACT LIST:

Landscape Architect
Jon Blasco
Senior Project Manger, PLA/ASLA
WithersRavenel
137 S Wilmington Street, Suite 200
Raleigh, NC 27601
919-817-5356
jblasco@withersravenel.com

Civil Engineer
Spenser Meekins
Project Manager, PE
WithersRavenel
137 S Wilmington Street, Suite 200
Raleigh, NC 27601
252-216-7255
smeekins@withersravenel.com

Architect
Jon Zellweger
Principal, AIA
provision studio
603 Holden Street
Raleigh NC 27604
919-740-5436
jz@provisionstudio.design

Architect
Daniel Culbertson
Principal, AIA
provision studio
603 Holden Street
Raleigh, NC 27604
919-272-3349
dculbertson@provisionstudio.design

811 Know what's below. Call before you dig.

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 2069 JONATHAN A. BLASCO
Signed by: 12/18/2025

PREPARED BY:

WithersRavenel
137 S Wilmington Street | Suite 200 | Raleigh, NC 27601
License #: F-1479 | t: 919.469.3340 | www.withersravenel.com

NORTH CAROLINA PROFESSIONAL SEAL 056188 ENGINEER SPENSER W. MEEKINS
Signed by: 12/19/2025

OWNER:

City Of Whiteville
Department Of Economic Development
317 S. Madison Street
City of Whiteville, NC 28472
PHONE #: 910-207-7997
ATTENTION: Madison Ward

CONFORMED CONSTRUCTION DOCUMENTS
WHITEVILLE
COMMUNITY SPACE
WR PROJECT NO. 23-0695

INITIAL PLAN DATE: 08/25/2025

J:\23\0695 Whiteville - Design Services for Community Space\CAD\Drawing Set\Conformed Set\C0.00 COVER.dwg, Monday, August 25, 2025 12:09:01 PM, JDOLAN

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SURVEY NOTES

1. THE FOLLOWING INFORMATION WAS USED FOR THE EXISTING SURVEY:
   a. COORDINATE SYSTEM: NORTH CAROLINA STATE PLANE FOOT
   b. PROJECT HORIZONTAL DATUM: NAD 83/2011
   c. COORDINATE UNITS: US SURVEY FEET
   c. ALL DISTANCES ARE HORIZONTAL GRID DISTANCES
   d. AREAS DETERMINED BY COORDINATE GEOMETRY

PROPERTY BOUNDARY SHOWN AS PROVIDED BY JAMES L. RUPINSKI, DATED THE 7TH OF NOVEMBER.
TOPOGRAPHIC SURVEY SHOWN AS PROVIDED BY JAMES L. RUPINSKI, DATED THE 7TH OF NOVEMBER.

2. PID #0280.02-97-6528.000 AND #0280.00-97-4770.00 ARE PORTIONS OF TRACT 1, DEED BOOK 430, PAGE 208, AND ARE ZONED CITY OF WHITEVILLE B-1.

3. PROPERTY DOES FALL WITHIN FEMA FLOODPLAIN PER FEMA FIRM 3720028000J PANEL 0280, EFFECTIVE DATE JUNE 2, 2006.

4. NO DETERMINATION HAS BEEN MADE BY THE SURVEYOR AS TO THE FOLLOWING: UNDERGROUND STORAGE FACILITIES, UNDERGROUND UTILITIES, GRAVES, CEMETERIES, BURIAL GROUNDS, HAZARDOUS WASTE DEPOSITS OR MATERIALS.

5. NO NCGS CONTROL MONUMENTS FOUND WITHIN 2,000 FEET.

6. SURVEY CONTROL POINTS PROVIDED IN NC STATE PLANE COORDINATES. ALL PROPOSED COORDINATES ARE GROUND COORDINATES. THE CONTRACTOR'S SURVEYOR IS RESPONSIBLE FOR ANY CONVERSIONS NEEDED FOR THE STAKEOUT OF THE PROPOSED GROUND COORDINATES SHOWN.

7. CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING ADDITIONAL CONTROLS THAT MAY BE NEEDED THROUGHOUT THE PROJECT.

8. REFERENCE DOCUMENTS, AS NOTES, ARE FROM COLUMBUS COUNTY GIS, TAX OFFICE, AND REGISTER OF DEEDS ONLINE APPLICATION.

9. BUILDING SETBACKS PER CITY OF WHITEVILLE B-1 ZONING:
   FRONT: 0', SIDE 0', REAR 10'

GENERAL NOTES:

1. WORK ON THIS PROJECT SHALL CONFORM TO THE LATEST NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, WHITEVILLE STANDARDS AND SPECIFICATIONS, GEOTECHNICAL REPORTS, AND ANY OTHER APPLICABLE DESIGN STANDARDS AT THE TIME OF PLAN APPROVAL. IN THE EVENT OF CONFLICT BETWEEN ANY OF THESE STANDARDS, SPECIFICATIONS OR PLANS, THE MOST STRINGENT SHALL GOVERN, UNLESS OTHERWISE NOTED IN THESE PLANS.

2. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR HAVING VISITED THE SITE AND HAVING FAMILIARIZED THEMSELVES WITH THE EXISTING CONDITIONS PRIOR TO SUBMITTING A BID AND/OR COMMENCING WORK.

3. ANY DISCREPANCIES, INCONSISTENCIES OR AMBIGUITIES FOUND BETWEEN THE DRAWINGS, SPECIFICATIONS, AND SITE CONDITIONS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER IN WRITING AND PRIOR TO BIDDING IF APPLICABLE. WORK DONE BY THE CONTRACTOR AFTER THE DISCOVERY OF SUCH DISCREPANCIES, INCONSISTENCIES, OR AMBIGUITIES WITHOUT WRITTEN CLARIFICATION FROM THE ENGINEER AND APPROVAL BY OWNER SHALL BE DONE AT THE CONTRACTOR'S RISK AND EXPENSE.

4. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL JOBSITE SAFETY DURING ALL PHASES OF CONSTRUCTION. ALL WORK SHALL COMPLY WITH MUNICIPAL, COUNTY AND STATE REGULATIONS, AND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS. CONTRACTOR SHALL COMPLY WITH THE LATEST REVISIONS AND INTERPRETATIONS OF THE DEPARTMENT OF LABOR SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION PROMULGATED UNDER THE OSHA ACT.

5. THE CONTRACTOR SHALL CALL "811" FOR PROPER IDENTIFICATION OF EXISTING UTILITIES AT LEAST 72 HOURS PRIOR TO ANY DEMOLITION, GRADING, OR CONSTRUCTION ACTIVITY.

6. THE CONTRACTOR IS RESPONSIBLE FOR HORIZONTALLY AND VERTICALLY LOCATING, AND SUBSEQUENTLY PROTECTING, ALL PUBLIC AND PRIVATE UTILITIES (SHOWN OR NOT SHOWN) THAT LIE IN OR ADJACENT TO THE PROJECT SITE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE UNDERGROUND UTILITIES. ALL UTILITIES AND FACILITIES ARE NOT NECESSARILY SHOWN. HAND DIGGING TO PROTECT UTILITIES FROM DAMAGE MAY BE REQUIRED.

7. ANY UTILITIES AND EXISTING SITE ELEMENTS (I.E. SIGNS, ROADWAYS, PATHS, STRUCTURES, NATURAL VEGETATION, OTHER EXISTING PROPERTY ITEMS, ETC.) DAMAGED DURING THE PROJECT BY THE CONTRACTOR'S WORKERS OR EQUIPMENT SHALL BE PROMPTLY REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER, UTILITY OWNER, REGULATORY AGENCY, AND ENGINEER.

8. CONTRACTOR SHALL MAKE EVERY EFFORT TO PRESERVE PROPERTY IRONS, MONUMENTS, OTHER PERMANENT POINTS AND LINES OF REFERENCE AND CONSTRUCTION STAKES. A NORTH CAROLINA LICENSED LAND SURVEYOR SHALL REPLACE, AT THE CONTRACTOR'S EXPENSE, PROPERTY IRONS, MONUMENTS, OTHER PERMANENT POINTS AND LINES OF REFERENCE AND CONSTRUCTION STAKES DESTROYED BY THE CONTRACTOR.

9. CONTRACTOR SHALL PLAN AND CONSTRUCT WORK IN ORDER TO CAUSE MINIMUM DISTURBANCE TO THE OWNER, ADJACENT PROPERTIES AND THE PUBLIC. CONTRACTOR SHALL COORDINATE WITH AND OBTAIN APPROVAL FROM STATE AND LOCAL REGULATORY AGENCIES ON TRAFFIC CONTROL PLANS.

10. ADJACENT STREETS AND SIDEWALKS SHALL BE MAINTAINED IN AN UNOBSTRUCTED, CLEAN CONDITION, MUD AND DUST-FREE.

11. THE CONTRACTOR SHALL HAVE A COMPLETE SET OF CONTRACT DOCUMENTS AS WELL AS ALL PERMIT APPROVALS AND EXECUTED EASEMENTS ON THE JOB SITE AT ALL TIMES.

12. CONSTRUCTION STAKEOUT FOR THIS PROJECT MAY BE PERFORMED BY THE CONTRACTOR, USING A DIGITAL (CADD) FILE PROVIDED BY THE ENGINEER. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES FOUND BETWEEN THE DIGITAL FILE AND THE CRITICAL STAKING DIMENSIONS SHOWN ON THIS PLAN (I.E. PAVEMENT WIDTHS, CURB RADII, BUILDING SETBACKS, BUILDING FOOTPRINTS, ETC.). ANY MODIFICATIONS MADE BY OTHERS TO THE DIGITAL FILE PROVIDED BY THE ENGINEER SHALL RENDER IT VOID.

13. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS FOR FIRE LANES, PARKING STALLS, ACCESSIBLE PARKING SYMBOLS, AND MISCELLANEOUS STRIPING WITHIN PARKING LOT AND AROUND BUILDINGS AS SHOWN ON THE PLANS. ALL PAVEMENT MARKING MATERIALS SHALL ADHERE TO NCDOT STANDARDS, UNLESS NOTED OTHERWISE.

14. ACCESSIBLE ROUTES AND PARKING AREAS MUST BE PROVIDED IN ACCORDANCE WITH THE CURRENT NORTH CAROLINA BUILDING CODE AND ADA STANDARDS FOR ACCESSIBLE DESIGN.

15. WHERE PROPOSED CURB AND GUTTER TIES TO EXISTING CURB OR CURB AND GUTTER, A TRANSITION OF 10' SHALL BE MADE TO CONFORM TO THE EXISTING HEIGHTS AND SHAPES, UNLESS OTHERWISE SHOWN ON THE PLANS.

16. ALL EXPANSION CURB JOINTS SHALL EXTEND THROUGH THE CURB. MINIMUM LENGTH OF OFFSET JOINTS AT RADIUS POINTS IS 1.5', UNLESS OTHERWISE SHOWN ON PLANS. ALL JOINTS SHALL BE SEALED WITH JOINT SEALANT.

17. TESTING OF MATERIAL REQUIRED FOR THE CONSTRUCTION OF THE IMPROVEMENTS SHALL BE PERFORMED BY AN APPROVED AGENCY FOR TESTING MATERIALS. THE NOMINATION OF THE TESTING LAB AND THE PAYMENT OF EACH TESTING SERVICES SHALL BE MADE BY THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SHOW BY STANDARD TESTING PROCEDURES THAT THE WORK CONSTRUCTED MEETS THE REQUIREMENT OF THE NCDOT AND MUNICIPAL SPECIFICATIONS.

DEMOLITION NOTES:

1. CONTRACTOR SHALL COORDINATE WITH THE OWNER AND UTILITY OWNER TO PROPERLY MAINTAIN, REMOVE OR RELOCATE EXISTING SERVICE CONNECTIONS WHEN NECESSARY.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING SURROUNDING NEIGHBORS ABOUT ANY POTENTIAL INTERRUPTION TO SERVICE OF ANY KIND.

3. EXISTING UTILITIES NOT INTENDED FOR DEMOLITION SHALL BE MAINTAINED, PROTECTED AND UNDISTURBED DURING CONSTRUCTION ACTIVITIES.

4. THE CONTRACTOR SHALL PROTECT ALL ADJACENT PROPERTY, STRUCTURES AND UTILITIES. DAMAGE TO PROPERTIES OF OTHERS DUE TO THE CONTRACTOR'S ACTIVITIES SHALL BE AT THE CONTRACTOR'S EXPENSE AND SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER.

5. ALL MATERIAL CLEARED OR DEMOLISHED BY THE CONTRACTOR IN ORDER TO CONSTRUCT THE WORK SHALL BECOME THE PROPERTY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED AND SHALL BE PROPERLY DISPOSED OF OFF-SITE.

6. SAW CUTS OF EXISTING PAVEMENTS, CURBS, GUTTERS AND SIDEWALKS SHALL PRODUCE A NEAT VERTICAL EDGE.

7. ALL DEMOLITION WORK SHALL BE DONE IN STRICT ACCORDANCE WITH AUTHORITIES HAVING JURISDICTION.

8. ALL PERMITS REQUIRED FOR THE DEMOLITION WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN PRIOR TO THE START OF DEMOLITION ACTIVITIES.

STORM DRAINAGE NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT CITY OF WHITEVILLE STANDARDS AND NCDOT STANDARD SPECIFICATIONS AND DETAILS.

2. ALL PUBLIC STORM DRAINAGE FRAMES, GRATES, AND HOODS SHALL BE STAMPED WITH "DRAINS TO RIVER" IN ACCORDANCE WITH CITY OF WHITEVILLE AND NCDOT STANDARDS.

3. RIM ELEVATION GIVEN FOR CATCH BASIN (CB) IS TOP OF CURB, YARD INLET (YI) IS OPENING INVERT FOR SLAB TOP, DROP INLET (DI) IS TOP OF GRATE AND JUNCTION BOX (JB) IS TOP OF RIM.

4. CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHOWN, INCLUDING, BUT NOT LIMITED TO THE HORIZONTAL AND VERTICAL LOCATION OF STRUCTURES AND UTILITIES CROSSING THE STORM SEWER PIPE.

5. CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE STORM SEWER DRAINAGE SYSTEM.

6. ALL STORM SEWER PIPE SHALL BE MINIMUM CLASS III REINFORCED CONCRETE PIPE (RCP), UNLESS OTHERWISE NOTED.

7. IF THERE ARE DISCREPANCIES BETWEEN THE PLAN AND FIELD CONDITIONS RELATED TO WHERE THE PROPOSED STORM SEWER PIPING TIES TO EXISTING STRUCTURES, PIPES, SWALES, ETC., THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND OWNER. AFTER NOTIFICATION TO ENGINEER AND OWNER, THE CONTRACTOR SHALL PERFORM THE AGREED UPON FIELD ADJUSTMENTS TO MATCH THE LOCATIONS OF THESE EXISTING FEATURES.

8. ALL STORM SEWER PIPE SHALL HAVE A MINIMUM COVER OF 2 FEET FROM FINISHED SUBGRADE TO THE PIPE CROWN IN TRAFFIC BEARING AREAS, UNLESS APPROVED BY AUTHORITIES HAVING JURISDICTION.

9. ALL STORM SEWER PIPE SHALL HAVE A MINIMUM COVER OF 1 FOOT TO THE PIPE CROWN IN NON-TRAFFIC BEARING AREAS.

10. THE STORM PIPE LENGTHS AS SHOWN ON THE DRAWINGS REPRESENTS THE DISTANCE FROM CENTER TO CENTER OF THE RESPECTIVE STRUCTURES.

11. STORM SEWER UTILITY STRUCTURE TABLES ARE AVAILABLE UPON REQUEST.

GRADING NOTES:

1. ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE, AND AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. IN ADDITION TO THE MEASURES SHOWN IN THESE PLANS, THE CONTRACTOR SHALL USE INTERIM DIVERSION DITCHES, BERMS, OR OTHER METHODS AS REQUIRED TO DIRECT DRAINAGE AS SHOWN ON THESE PLANS AND TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES, ROADWAYS, AND ENVIRONMENTALLY SENSITIVE AREAS SUCH AS BUFFERS AND WETLANDS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND OWNER IN WRITING OF ANY DISCREPANCIES OR CONCERNS.

2. ALL SOILS USED FOR BACKFILL SHALL BE FREE OF UNSATISFACTORY MATERIALS INCLUDING ROCK OR GRAVEL LARGER THAN 3 INCHES IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, VEGETATION AND OTHER DELETERIOUS MATTER. ROCK OR GRAVEL LARGER THAN 2 INCHES IN ANY DIMENSION SHALL NOT BE PLACED IN THE IN THE FINAL LIFT (MINIMUM OF 6 INCHES). UNSATISFACTORY MATERIALS ALSO INCLUDE MAN-MADE FILLS AND REFUSE DEBRIS DERIVED FROM ANY SOURCE. REFER TO FINAL GEOTECHNICAL REPORT FOR ANY SPECIAL FILL MATERIAL REQUIRED FOR THIS PROJECT, IF ANY. THE CONTRACTOR SHALL CONSULT WITH THE SITE GEOTECHNICAL ENGINEER PRIOR TO BACKFILL PLACEMENT TO VERIFY BACKFILL MEETS PROJECT REQUIREMENTS.

3. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL SOIL TESTING IS PERFORMED AND THE RESULTS FORWARDED TO THE ENGINEER AND OWNER.

4. MATERIALS USED TO CONSTRUCT EMBANKMENTS FOR ANY PURPOSE, BACKFILL AROUND DRAINAGE STRUCTURES, OR IN UTILITY TRENCHES FOR ANY OTHER DEPRESSION REQUIRING FILL OR BACKFILL SHALL MEET THE REQUIREMENTS OF THE PROJECT GEOTECHNICAL ENGINEER RECOMMENDATIONS.

5. THE CONTRACTOR SHALL, PRIOR TO ANY OPERATIONS INVOLVING FILLING OR BACKFILLING, SUBMIT TO THE OWNER AND PROJECT GEOTECHNICAL ENGINEER THE RESULTS OF THE PROCTOR TEST TOGETHER WITH A CERTIFICATION THAT THE SOIL TESTED IS REPRESENTATIVE OF THE MATERIALS TO BE USED ON THE PROJECT. TESTS SHALL BE CONDUCTED BY A NORTH CAROLINA CERTIFIED MATERIALS TESTING LABORATORY AND CERTIFICATIONS MADE BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA REPRESENTING THE LABORATORY.

6. ALL PAVEMENT SUBGRADES SHALL BE SCARIFIED TO A DEPTH OF 8 INCHES AND COMPACTED TO A MINIMUM DENSITY OF 100 PERCENT OF ASTM D1557 DENSITY AT OPTIMUM MOISTURE CONTENT UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION PLANS OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

7. CONTOURS AND GUTTER GRADIENTS ARE APPROXIMATE. SPOT ELEVATIONS ARE TO BE USED IN CASE OF DISCREPANCY.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEWATERING NECESSARY TO CONSTRUCT THE PROJECT AS SHOWN ON THE PLANS. DEWATERING SHALL BE INCIDENTAL TO GRADING OPERATIONS. THERE SHALL BE NO SEPARATE MEASUREMENT OR PAYMENT RELATED TO DEWATERING EFFORTS.

9. MASS GRADING OPERATIONS SHALL BE PHASED TO LIMIT EXPOSED AREAS. PRIOR TO PROCEEDING TO ANOTHER PHASE, THE PRESENT PHASE SHALL BE STABILIZED WITH ADEQUATE GROUND COVER SUFFICIENT TO RESTRAIN EROSION AND HAVE ALL INFRASTRUCTURE INSTALLED. SEE GROUND COVER REQUIREMENTS WITHIN THESE PLANS OR CONSULT THE MUNICIPAL EROSION CONTROL SPECIALIST.

10. THE FRAMES AND COVERS OF ALL EXISTING AND PROPOSED DRAINAGE, SANITARY SEWER, WATER MAIN, GAS AND ELECTRIC UTILITY STRUCTURES SHALL BE ADJUSTED TO MATCH PROPOSED FINISHED ELEVATIONS AND SLOPES UNLESS OTHERWISE SHOWN ON THE PLANS.

11. BEFORE ANY EARTHWORK COMMENCES, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF CONSTRUCTION AND OTHER ITEMS ESTABLISHED IN THE PLANS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SURVEYING FOR LINE AND GRADE CONTROL POINTS RELATED TO EARTHWORK.

12. THE PLACEMENT OF ANY FILL MATERIAL MUST BE CONDUCTED UNDER THE OBSERVATION OF A QUALIFIED LICENSED GEOTECHNICAL ENGINEER AND UPON COMPLETION OF THE EARTHWORK ACTIVITIES THE OWNER AND JURISDICTION MUST BE PROVIDED WITH A FINAL GRADING REPORT THAT INCLUDES THE CORRESPONDING COMPACTION TEST RESULTS AND CERTIFIES THE TYPE OF FILL MATERIAL AND ITS PROPER PLACEMENT.

13. REFERENCE STRUCTURAL DRAWINGS, SPECIFICATIONS, GEOTECHNICAL REPORT, AND/OR DIRECTIVES PROVIDED BY THE PROJECT GEOTECHNICAL ENGINEER FOR BUILDING PAD AND PAVING SUBGRADE INFORMATION.

UTILITIES NOTES:

1. GENERALLY, FILL MATERIAL SHALL BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.

2. ALL NECESSARY INSPECTIONS, CERTIFICATIONS, AND TESTING REQUIRED BY CODES AND UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO MUNICIPAL APPROVAL FOR THE FINAL CONNECTION OF SERVICE. CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF TESTING SERVICES AND COORDINATION WITH UTILITY OWNER.

3. CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE IMPROVEMENTS SHOWN.

4. THE CONTRACTOR SHALL REPORT, IN WRITING ANY UTILITY CONFLICTS TO THE ENGINEER IMMEDIATELY UPON DISCOVERING CONFLICTS.

5. THE SANITARY SEWER PIPE LENGTHS AS SHOWN ON THE DRAWINGS REPRESENTS THE DISTANCE FROM CENTER TO CENTER OF THE RESPECTIVE STRUCTURES.

6. PRIOR TO UTILITY RELOCATION, REMOVAL OR ABANDONMENT, THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY PROVIDERS, LOCAL MUNICIPALITY, AND NCDOT, KNOWN UTILITY PROVIDER INFORMATION IS CONTAINED ON THIS PLAN SHEET.

7. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING SURROUNDING NEIGHBORS ABOUT ANY POTENTIAL INTERRUPTION TO SERVICE OF ANY KIND.

8. THE CONTRACTOR SHALL MAINTAIN A MINIMUM COVER OF 3 FEET ON ALL PROPOSED WATER LINES. THREE FEET SHALL BE MEASURED TO THE BOTTOM OF THE PROPOSED SUBGRADE WITHIN PAVED AREAS.

9. THE CONTRACTOR SHALL MAINTAIN A MINIMUM COVER OF 3 FEET ON ALL PROPOSED SANITARY LINES. THREE FEET SHALL BE MEASURED TO THE BOTTOM OF THE PROPOSED SUBGRADE WITHIN PAVED AREAS.

10. THE CONTRACTOR SHALL MAINTAIN SEPARATION OF WATER MAIN FROM SANITARY SEWER PIPING IN ACCORDANCE WITH THOSE DISTANCES SPECIFIED BY STATE AND/OR LOCAL CODE OR A MINIMUM OF 10 FEET HORIZONTAL OR 18 INCHES VERTICAL DISTANCE.

11. THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR INSTALLATION OF ALL PROPOSED POWER AND COMMUNICATION LINES AND ASSOCIATED APPURTENANCES. THERE SHALL BE NO SEPARATE MEASUREMENT OR PAYMENT FOR COORDINATION WITH UTILITY COMPANIES.

12. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF PAD MOUNTED TRANSFORMER WITH UTILITY COMPANY, ENGINEER AND OWNER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL INSTALL THE CONCRETE PAD AND THE UTILITY COMPANY WILL INSTALL THE TRANSFORMER. COORDINATION FOR THIS WORK ITEM SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

UTILITY CONTACT INFORMATION:

SANITARY SEWER SERVICE:
PROVIDER: CITY OF WHITEVILLE
ADDRESS: 317 S MADISON ST, WHITEVILLE, NC 28472
CONTACT: TINA HOOKER
PHONE: 910-642-8046 (EXT. 1002)
EMAIL: KHOOKER@CI.WHITEVILLE.NC.US

WATER SERVICE:
PROVIDER: CITY OF WHITEVILLE
ADDRESS: 317 S MADISON ST, WHITEVILLE, NC 28472
CONTACT: TINA HOOKER
PHONE: 910-642-8046 (EXT. 1002)
EMAIL: KHOOKER@CI.WHITEVILLE.NC.US

POWER:
PROVIDER: DUKE ENERGY PROGRESS
ADDRESS: 3524 CHADBOURN HWY, WHITEVILLE, NC 28472
PHONE: 800-653-5307

EROSION & SEDIMENT CONTROL NOTES:

1. CONTRACTOR SHALL INSTALL EROSION CONTROLS IN ORDER WITH THE SEQUENCE PROVIDED.

2. CONTRACTOR SHALL ENSURE GRADING OPERATIONS ARE CONDUCTED IN A MANNER THAT DOES NOT ALLOW ANY SEDIMENT TO DRAIN OFFSITE OR INTO WATERCOURSES.

3. A GRAVEL CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT THE LOCATIONS SHOWN ON THE DRAWINGS AND AT EACH POINT OF CONSTRUCTION ACCESS.

4. CONTRACTOR SHALL CONSTRUCT DIVERSION DITCHES AS NECESSARY TO ENSURE ALL SEDIMENT IS DIRECTED INTO EROSION CONTROL MEASURES.

5. IF STORM CROSS DRAINAGE CANNOT BE INSTALLED PRIOR TO GRADING, TEMPORARY HDPE STORM DRAINAGE PIPE SHALL BE USED TO CROSS WET WEATHER CHANNELS, EXCLUDING ANY PROTECTED WETLANDS OR STREAMS.

6. ALL STORM DRAINAGE PIPE SHALL BE PROTECTED AS SHOWN ON THE PLANS DURING CONSTRUCTION.

7. CONTRACTOR SHALL PROVIDE RIPRAP LINED DISSIPATOR PADS AT THE STORM DRAINAGE PIPE DISCHARGE POINTS AS REQUIRED TO ENSURE POSITIVE DRAINAGE. SEE PLANS FOR DIMENSIONS AND DETAILS.

8. PERMANENT GROUND COVER SHALL BE ESTABLISHED PER APPROVED NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT.

9. TREE PROTECTION FENCING SHALL BE INSTALLED AND INSPECTED PRIOR TO ISSUANCE OF A GRADING PERMIT. FENCING SHALL NOT BE REQUIRED ADJACENT TO AREAS WITHOUT WOODED VEGETATION. FENCING SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION PRIOR TO THE CERTIFICATE OF OCCUPANCY (CO) IS SCHEDULED. THE FENCING SHALL BE REMOVED PRIOR TO FINAL SITE INSPECTION FOR THE CO.

10. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT AN EROSION CONTROL PERMIT AND ANY OTHER RELATED PERMITS ARE SECURED FOR ANY OFF-SITE WASTE OR BORROW AREAS, UNLESS OTHERWISE STATED IN THE PROJECT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR SECURING ALL AGREEMENTS WITH LANDOWNERS FOR PLACEMENT OF WASTE SOIL OR REMOVAL OF BORROW. OFF-SITE PERMITS AND AGREEMENTS SHALL EXIST PRIOR TO CONSTRUCTION ACTIVITIES ON WASTE OR BORROW AREAS. COPIES OF PERMITS AND AGREEMENTS SHALL BE PROVIDED TO THE OWNER AND ENGINEER.

11. SOILS CONTAMINATED WITH ANY CHEMICAL, METAL OR PETROLEUM CONTAMINATION SHALL NOT BE TRANSPORTED ONTO THE PROPERTY AS BORROW / FILL SOILS. CONTAMINATED SOILS, IF DISCOVERED ON THE PROPERTY SHALL NOT BE TRANSPORTED OFFSITE WITHOUT TESTING, PERMITTING AND/OR OTHER REGULATORY APPROVALS COMMENSURATE WITH THE TYPE OF CONTAMINATION AND LOCATION.

FIRE & LIFE SAFETY NOTES:

1. LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE THE FIRE DEPARTMENT CONNECTION (FDC) OR FIRE HYDRANTS. A 3-FOOT (3') CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF ANY HYDRANT, FDC OR OTHER FIRE DEPARTMENT EQUIPMENT.

2. FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT.

3. HYDRANTS MUST BE LOCATED WITHIN EIGHT FEET (8'), BUT NO CLOSER THAN THREE FEET (3') OF THE CURB.

4. A MINIMUM OF FIVE FEET (5') SHALL SEPARATE UNDERGROUND FIRE LINES OR PRIVATE WATER MAINS FROM OTHER UNDERGROUND UTILITIES.

5. NEW HYDRANTS SHALL BE OPERABLE PRIOR TO CONSTRUCTION OF THE BUILDING(S).

6. HYDRANT MUST BE WITHIN 150' OF THE FDC (MEASURED AS THE TRUCK DRIVES FOR PRACTICAL USE).

7. CONTRACTOR SHALL MAINTAIN AN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION AS SHOWN ON THE PLANS.

8. TEMPORARY STREET SIGNS SHALL BE INSTALLED AT EACH STREET INTERSECTION WHEN CONSTRUCTION OF NEW ROADWAYS ALLOWS PASSAGE BY VEHICLES.

9. ALL ISOLATION VALVES WITHIN THE "HOT BOX" SHALL BE ELECTRICALLY SUPERVISED. PLEASE WORK WITH YOUR FIRE SPRINKLER AND ALARM INSTALLER IN REGARD TO RUNNING WIRE FOR TAMPER SWITCH.

10. ROADWAYS AND BUILDINGS MUST BE CAPABLE OF SUPPORTING FIRE APPARATUS DURING CONSTRUCTION.

11. FIRE FLOW ANALYSIS MUST BE PROVEN AT TIME OF BUILDING PERMITS PER NORTH CAROLINA FIRE PROTECTION CODE (NCFPC), SECTION 507.3, LATEST EDITION. THIS IS THE AVAILABLE FIRE FLOW FROM THE HYDRANT AND THE MINIMUM REQUIRED FIRE FLOW CALCULATION FROM NCFPC APPENDIX B OR OTHER APPROVED METHOD.

12. CONTRACTOR SHALL REPLACE WITH NEW ALL DRIVEWAY PIPES AND OTHER DRAINAGE PIPES/CULVERTS THAT ARE DISTURBED WHILE INSTALLING THE UTILITIES. ALL PIPE/CULVERTS SHALL MEET THE REQUIREMENTS OF NCDOT.

13. ALL ROADWAY DITCHES DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION OR BETTER AND CONFORM TO NCDOT REQUIREMENTS OR AUTHORITIES HAVING JURISDICTION. ALL DITCHES SHALL BE LINED WITH EROSION CONTROL MATTING UNLESS OTHERWISE NOTED.

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CONFORMED CONSTRUCTION DOCUMENTS

WHITEVILLE COMMUNITY SPACE

907 S MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

Signed by:
JONATHAN A. BLASCO
NORTH CAROLINA
LANDSCAPE ARCHITECT
2069
12/18/2025

INITIAL PLAN DATE: 08/25/2025
REVISIONS:
-
-
-

WR JOB NUMBER 23-0695
DRN: JMD DGN: JMD CKD: JAB

GENERAL NOTES

C0.01

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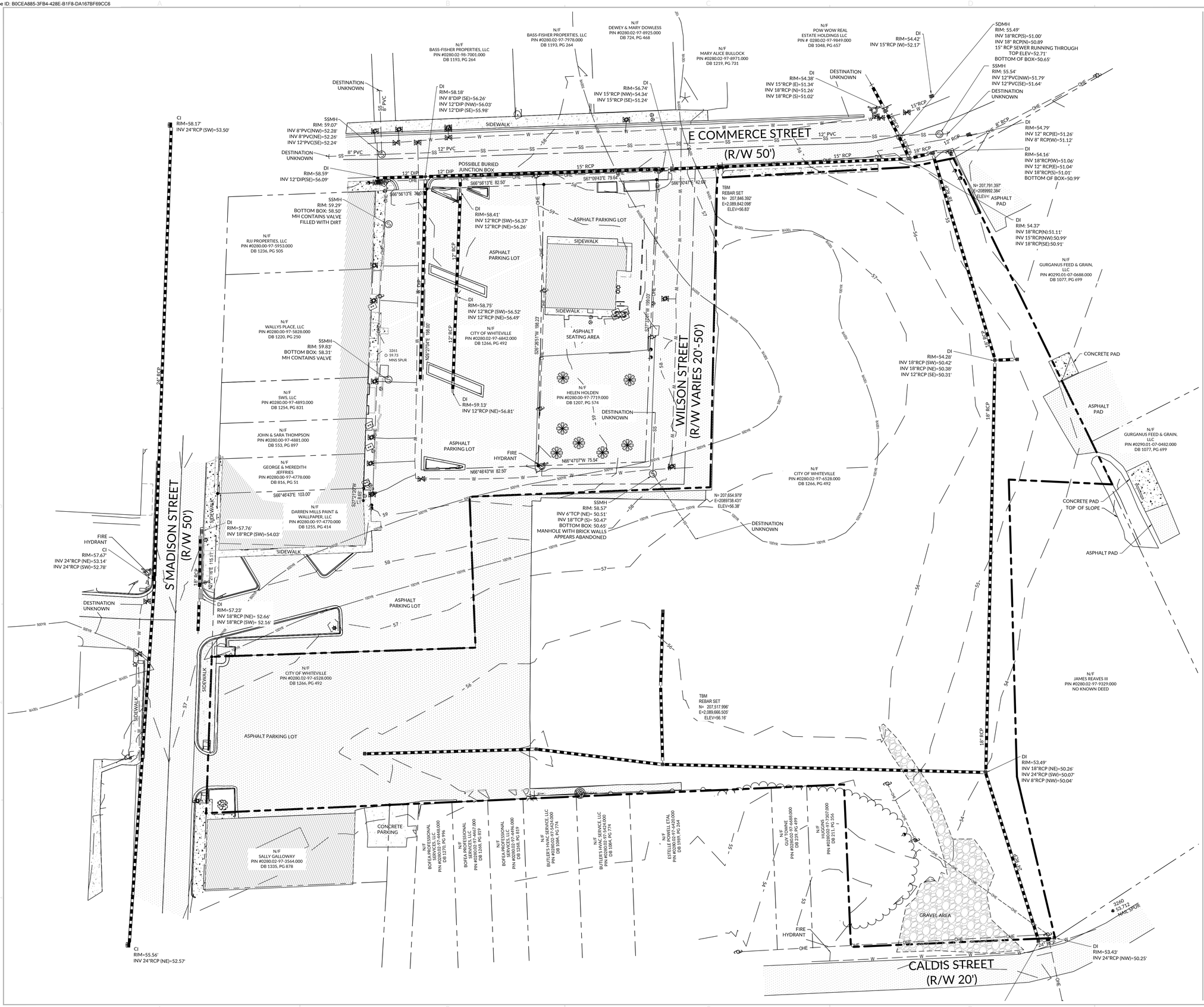

SURVEY LEGEND

- CONCRETE MONUMENT FOUND
- IRON PIPE FOUND
- PINCHED IRON PIPE FOUND
- MAGNETIC NAIL FOUND
- IRON REBAR FOUND
- CALCULATED POINT/IRON TO BE SET
- TEMPORARY BENCHMARK
- POWER POLE
- GUY WIRE
- FIRE HYDRANT
- WATER VALVE
- WATER METER
- SEWER ,MANHOLE
- SEWER CLEANOUT
- STORM DRAIN MANHOLE
- LIGHT POLE
- SIGN
- DROP INLET
- CURB INLET
- PROPERTY LINE
- ADJOINER, NOT SURVEYED
- RIGHT OF WAY LINE
- SOIL/GRAVEL PATH
- MISCELLANEOUS FENCE
- CHAINLINK FENCE
- WIRE FENCE
- WOOD FENCE
- EASEMENT
- WETLAND LIMIT
- WOODLINE
- SANITARY SEWER
- STORM DRAINS
- OVERHEAD ELECTRIC
- MAJOR CONTOUR
- MINOR CONTOUR
- ASPHALT
- CONCRETE
- GRAVEL
- BUILDINGS
- DOGWOOD
- PINE
- OAK
- CREPE MYRTLE

NOTE: ALL PINE TREES SHOWN ON THE SURVEY ARE LOBLOLLY PINES UNLESS OTHERWISE NOTED.

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CONFORMED CONSTRUCTION DOCUMENTS

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FOR REFERENCE ONLY

0 15 30
SCALE: 1 inch = 30 ft.

INITIAL PLAN DATE: 08/25/2025
REVISIONS:
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DRN: JMD	DGN: JMD CKD: JAB

EXISTING CONDITIONS

C1.00

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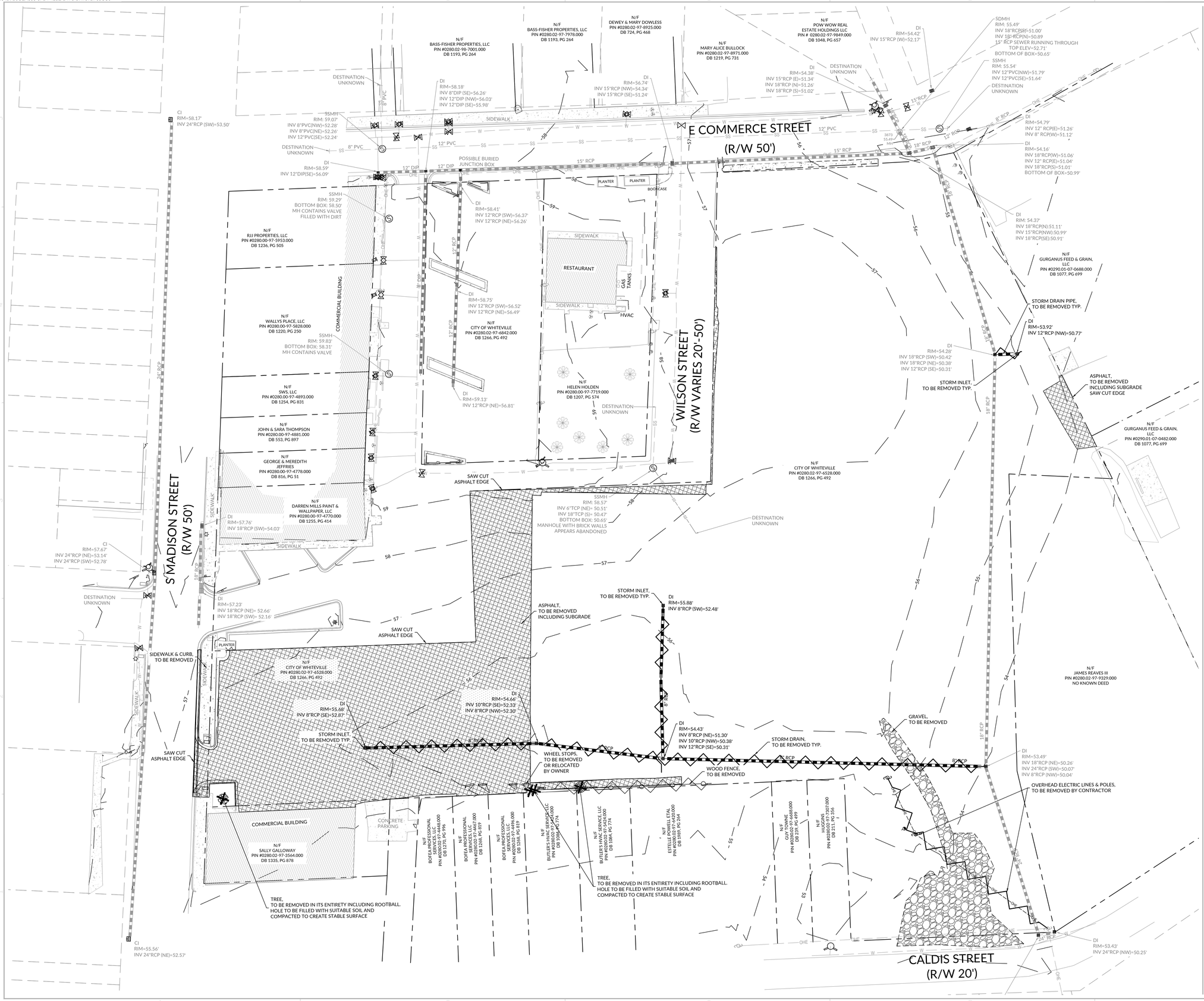

DEMOLITION LEGEND

- ASPHALT, TO BE REMOVED FULL DEPTH
- CONCRETE, TO BE REMOVED
- GRAVEL, TO BE REMOVED
- ITEM, TO BE REMOVED
- TREE, TO BE REMOVED

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WHITEVILLE COMMUNITY SPACE

907 S MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 2069 JONATHAN A. BLACK

Signed by: 4A0A2E7E4DC...

12/18/2025

0 15 30
SCALE: 1 inch = 30 ft.

INITIAL PLAN DATE: 08/25/2025
REVISIONS:
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WR JOB NUMBER	23-0695
DRN: JMD	DGN: JMD CKD: JAB

DEMOLITION PLAN

C2.00

EST 1983

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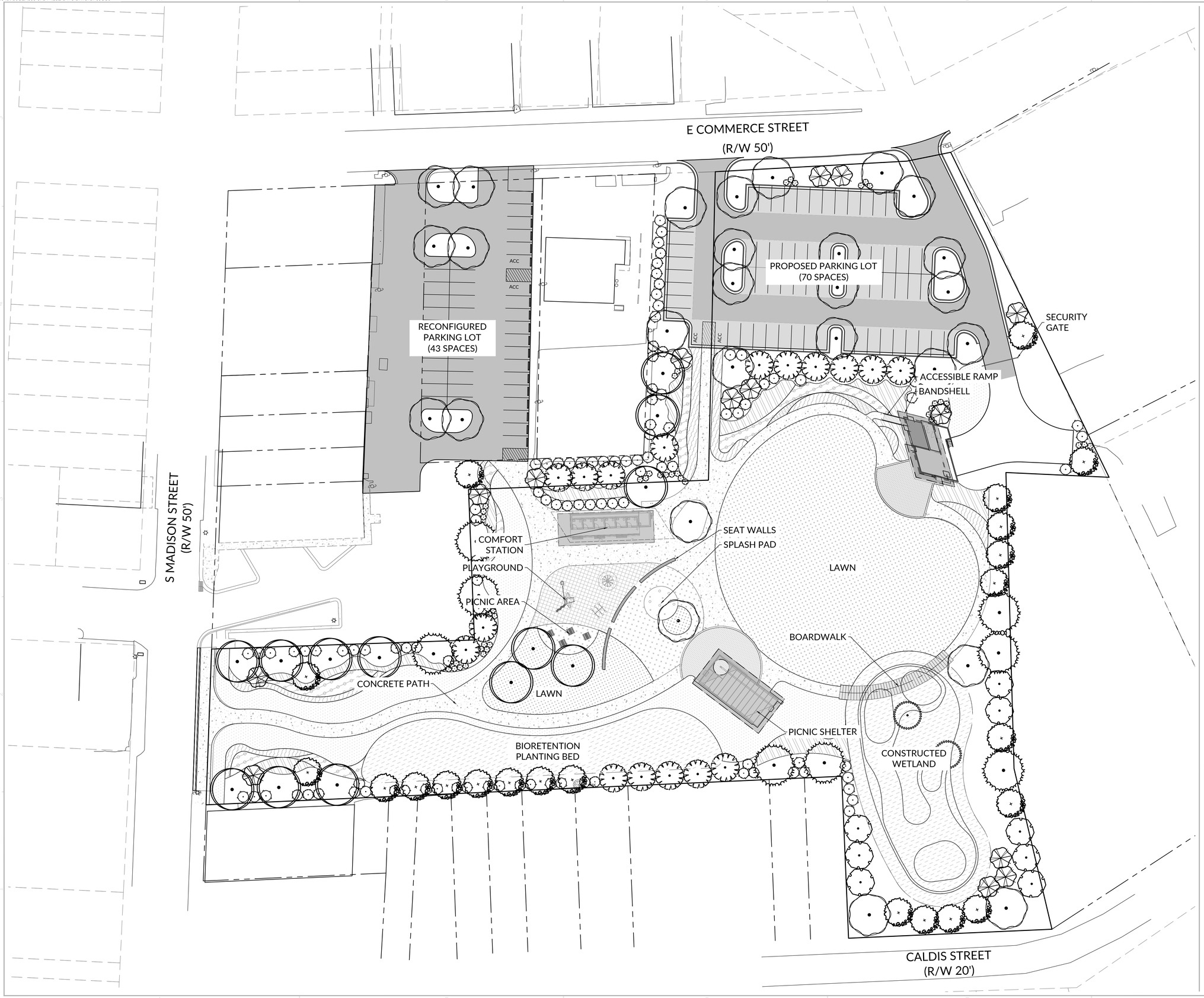

SITE LEGEND

- PROPOSED LIGHT DUTY CONCRETE
- PROPOSED HEAVY DUTY CONCRETE
- PROPOSED LIGHT DUTY COLORED
- PROPOSED LIGHT DUTY ASPHALT
- PROPOSED HEAVY DUTY ASPHALT
- PROPOSED POURED IN PLACE SURFACE
- PROPOSED PAVERS,
- PROPOSED STORMWATER CONTROL DEVICES

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REVISIONS:
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DRN: JMD	DGN: JMD CKD: JAB

OVERALL SITE PLAN (FUTURE BUILD OUT)

C3.00

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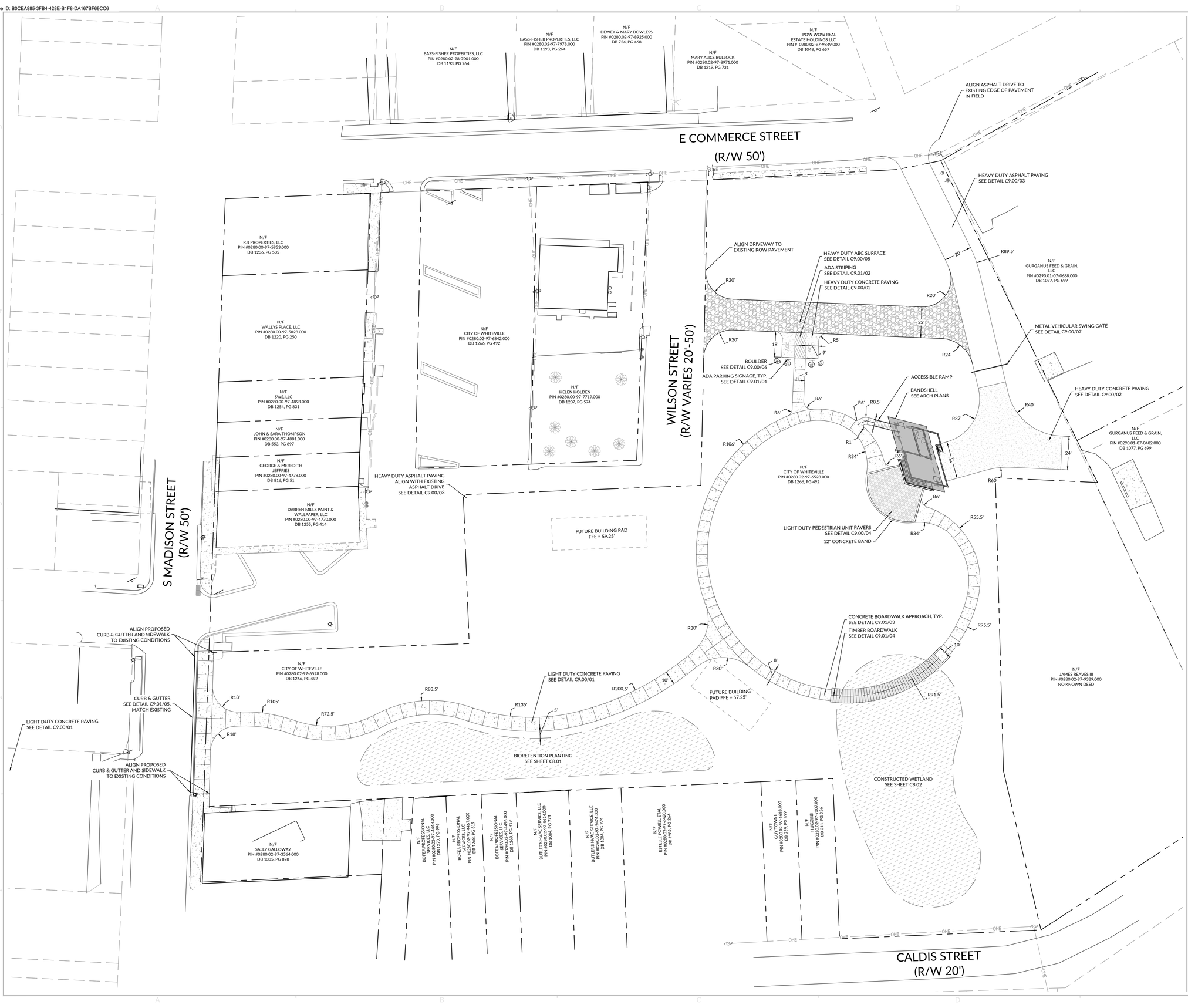

SITE LEGEND

- PROPOSED LIGHT DUTY CONCRETE PAVING, SEE DETAIL SHEET C9.00/ DETAIL NUMBER 01
- PROPOSED HEAVY DUTY CONCRETE PAVING, SEE DETAIL SHEET C9.00/ DETAIL NUMBER 02
- PROPOSED HEAVY DUTY ASPHALT PAVING, SEE DETAIL SHEET C9.00/ DETAIL NUMBER 03
- PROPOSED LIGHT DUTY PEDESTRIAN UNIT PAVERS, SEE DETAIL SHEET C9.00/ DETAIL NUMBER 04
- HEAVY DUTY ABC SURFACE, SEE DETAIL SHEET C9.00 DETAIL NUMBER 05
- PROPOSED STORMWATER CONTROL DEVICES SEE SHEETS C8.01 & C8.02

GENERAL LAYOUT PLAN NOTES:

1. ANY DISCREPANCIES IN THE LAYOUT TO BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT IMMEDIATELY. WORK SHOULD CEASE UNTIL DISCREPANCIES ARE ADDRESSED & SOLVED.
2. ALL PROPOSED SURFACES TO MEET OTHER PROPOSED & EXISTING SURFACES FLUSH.
3. REFER TO DIMENSIONS, DO NOT SCALE DRAWINGS.
4. LANDSCAPE ARCHITECT TO APPROVE LAYOUT IN FIELD PRIOR TO STARTING WORK.
5. PROVIDE EXPANSION JOINT WHERE PROPOSED CONCRETE PAVING MEETS EXISTING.
6. ALL SITE FURNISHINGS TO BE FIELD LOCATED BY LANDSCAPE ARCHITECT.

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CONFORMED CONSTRUCTION DOCUMENTS

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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 2069 JONATHAN A. BLASCO

12/18/2025

0 15 30
SCALE: 1 inch = 30 ft.

INITIAL PLAN DATE: 08/25/2025
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SITE PLAN

C3.01

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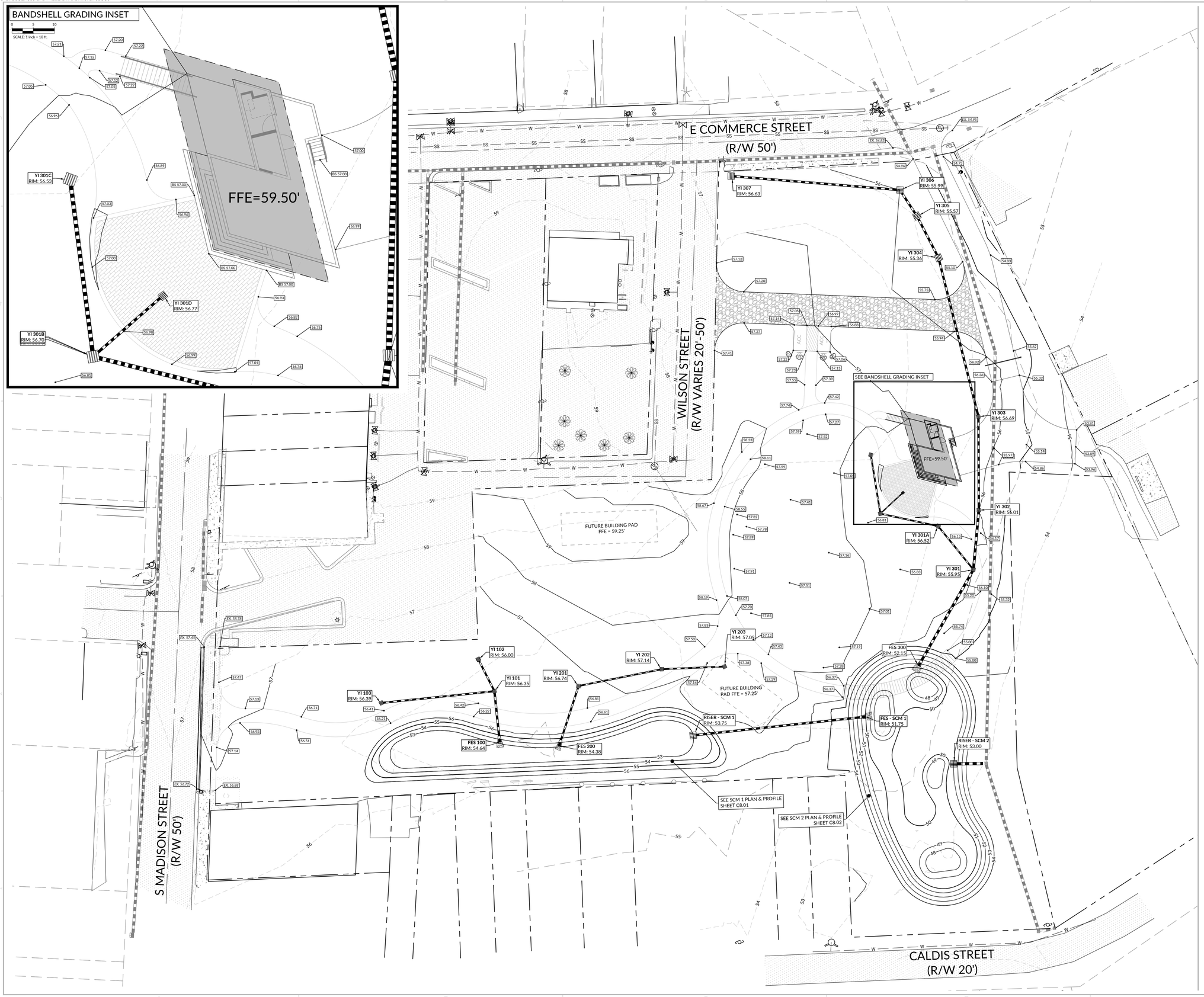

GRADING LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS

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CONFORMED CONSTRUCTION DOCUMENTS

WHITEVILLE COMMUNITY SPACE

907 S MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

Signed by: Spencer W. Meekins
12/19/2025
NORTH CAROLINA PROFESSIONAL SEAL 056188 ENGINEER SPENCER W. MEEKINS

SCALE: 1 inch = 30 ft.

INITIAL PLAN DATE: 08/25/2025
REVISIONS:
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DRN: JMD	DGN: JMD CKD: JAB

GRADING PLAN

C4.00

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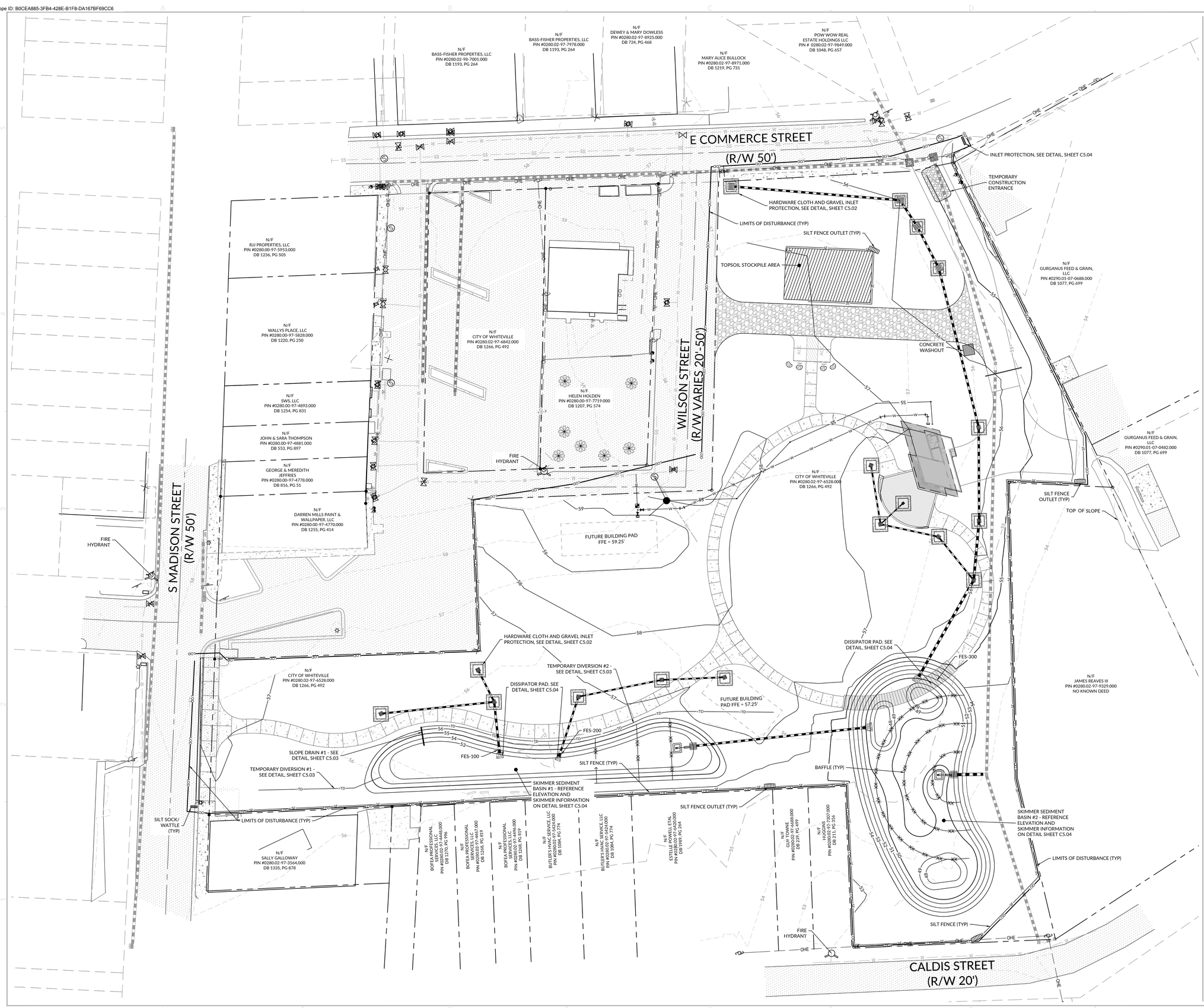

EROSION CONTROL LEGEND

SYMBOL	DESCRIPTION
	BAFFLE, SEE SHEET C5.02/DETAIL NUMBER 06
	LIMIT OF DISTURBANCE
	SILT FENCE, SEE SHEET C5.02/DETAIL NUMBER 03
	TEMPORARY DIVERSION, SEE SHEET C5.03/DETAIL NUMBER 07
	CONSTRUCTION ENTRANCE, SEE SHEET C5.02/DETAIL NUMBER 01
	SILT FENCE OUTLET, SEE SHEET C5.02/DETAIL NUMBER 05
	HARDWARE CLOTH AND GRAVEL INLET PROTECTION, SEE SHEET C5.02/DETAIL NUMBER 02
	TEMPORARY CONCRETE WASHOUT SEE SHEET C5.02/DETAIL NUMBER 04
	INLET PROTECTION SEE SHEET C5.04/DETAIL NUMBER 09

TOTAL DISTURBED AREA: 3.92 AC

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WHITEVILLE COMMUNITY SPACE

907 S MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

Signed by: JAMES A. BOLDEN
NORTH CAROLINA PROFESSIONAL SEAL 056188 ENGINEER JAMES A. BOLDEN
12/19/2025

SCALE: 1 inch = 30 ft.

INITIAL PLAN DATE: 08/25/2025
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EROSION CONTROL PLAN

C5.00

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GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes		
Site Area Description	**Stabilize within this many calendar days after ceasing land disturbance**	**Timeframe variations**
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10 feet or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
· Temporary grass seed covered with straw or other mulches and tackifiers. · Hydroseeding · Rolled erosion control products with or without temporary grass seed · Appropriately applied straw or other mulch · Plastic sheeting	· Permanent grass seed covered with straw or other mulches and tackifiers · Geotextile fabrics such as permanent soil reinforcement matting · Hydroseeding · Shrubs or other permanent plantings covered with mulch · Uniform and evenly distributed ground cover sufficient to restrain erosion · Structural methods such as concrete, asphalt or retaining walls · Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

1. Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
3. Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
4. Provide ponding area for containment of treated Stormwater before discharging offsite.
5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled, sized and placed appropriately for the needs of site.
5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

1. Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
3. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

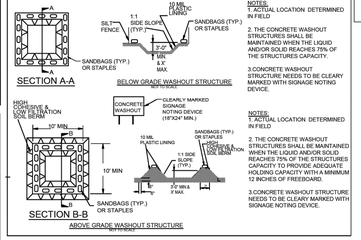
EARTHEN STOCKPILE MANAGEMENT

1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

HAZARDOUS AND TOXIC WASTE

1. Create designated hazardous waste collection areas on-site.
2. Place hazardous waste containers under cover or in secondary containment.
3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY.
3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

CONCRETE WASHOUTS

1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
4. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
5. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
6. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
7. Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
3. Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
4. Do not stockpile these materials onsite.

NORTH CAROLINA Environmental Quality

EFFECTIVE DATE: 11/12/2020

NCG-01 GROUND COVER & MATERIALS HANDLING

Date:

Page:

PART II, SECTION G, ITEM (4)
DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

(a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,
(b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,
(c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems
(d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
(e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
(f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend on holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "Zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours.	1. Identification of the measures inspected 2. Date and Time of the inspection 3. Name of the person performing the inspection 4. Indication of whether the measures were operating properly 5. Description of maintenance needs for the measure 6. Description, Evidence, and date of corrective actions taken
(3) Stormwater discharge outfalls(SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours.	1. Identification of the discharge outfalls inspected 2. Date and Time of the inspection 3. Name of the person performing the inspection 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration 5. Indication of visible sediment leaving the site 6. Description, Evidence, and date corrective actions taken
(4) Perimeter of Site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours.	If visible Sedimentation is found outside site limits, then record of the following shall be made: 1) Actions taken to clean up or stabilize sediment that has left the site limits 2) Description, Evidence and date of corrective actions taken 3) An explanation as to the actions taken to control future releases
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours.	If the stream or wetland has increased visible sedimentation or has visible increased turbidity from the construction activity, then a record of the following shall be made: 1) Description, Evidence and date of corrective actions taken 2)Records of required reports to the appropriate Division Regional Office per Part III, Section C, Item(2)(a) of this permit
(6) Ground Stabilization Measures	After each phase of grading.	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Document Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site

In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

(a) This General Permit as well as the Certificate of Coverage, after it is received.

(b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years

All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

(a) Visible sediment deposition in a stream or wetland.
(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).

(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
(d) Anticipated bypasses and unanticipated bypasses.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timeframe (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• Within 24 hours, an oral or electronic notification. • Within 7 Calendar Days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related caused, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per item 1(b)-(c) above	• Within 24 Hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• *A report at least ten days before the date of the bypass, if possible.* The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• Within 24 Hours, an oral or electronic notification • Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(l)(7)]	• Within 24 Hours, an oral or electronic notification • Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

NORTH CAROLINA Environmental Quality

EFFECTIVE DATE: 11/12/2020

NCG-01 SELF INSPECTION

GENERAL NOTES - EROSION CONTROL:

1. ALL LAND DISTURBING ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH EROSION & SEDIMENT CONTROL STANDARDS & PRACTICES PRESCRIBED BY NCDEQ.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY SEDIMENTATION & EROSION CONTROL DEVICES SHOWN ON THE APPROVED PLAN THROUGHOUT CONSTRUCTION. THE ENGINEER, OWNER, OR NCDEQ MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES TO BE IMPLEMENTED DURING CONSTRUCTION IF WARRANTED.
3. ALL AREAS & SLOPES DISTURBED DURING CONSTRUCTION & EXPOSED SHALL BE STABILIZED WITH TEMPORARY SEEDING AND MULCHING WITHIN 7 OR 14 DAYS, DEPENDING ON THE SLOPE, OF TEMPORARILY OR PERMANENTLY SUSPENDING LAND DISTURBING ACTIVITY. PERMANENT GROUNDCOVER SHALL BE PLACED WITHIN 14 CALENDAR DAYS FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT. REFER TO NCGO1 GROUND STABILIZATION GUIDELINES.
4. SLOPES SHALL BE NO STEEPER THAN 2:1, PREFERABLY FLATTER, FOR VEGETATIVE COVER.
5. THE CONTRACTOR SHALL FAITHFULLY MAINTAIN ALL SEDIMENTATION CONTROL DEVICES & TAKE ANY PRECAUTIONARY MEASURES TO ENSURE THAT SILT DOES NOT ENTER ANY NATURAL STREAM CHANNEL LOCATED WITHIN THE SITE.
6. RECEIVING WATERCOURSE: MOLLIE BRANCH IN THE LUMBER RIVER BASIN.
7. THE CONTRACTOR SHALL SUBMIT DOCUMENTATION REQUIRED UNDER THE SITE NPDES STORMWATER PERMIT OF CONSTRUCTION ACTIVITY (NCGO1) TO STORMWATER INSPECTIONS THROUGHOUT THE PROJECT.

EROSION CONTROL MAINTENANCE PLAN:

1. ALL EROSION & SEDIMENTATION CONTROL PRACTICES WILL BE CHECKED FOR STABILITY & OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT THE CONSTRUCTION ENTRANCE PAD IS PROPERLY MAINTAINED SO THAT MUD IS NOT TRACKED ONTO ADJACENT STREETS. IN THE EVENT THAT THE GRAVEL CONSTRUCTION ENTRANCE IS NOT PROPERLY MAINTAINED, OR OTHERWISE INEFFECTIVE, THE CITY OF RALEIGH, OWNER, OR ENGINEER MAY ISSUE A STOP WORK ORDER, WHICH SHALL REMAIN IN EFFECT UNTIL SUCH TIME AS THE PAD IS RESTORED & REPLENISHED & UNTIL ANY RESULTING MUD & DEBRIS HAS BEEN SATISFACTORILY REMOVED FROM THE ADJACENT STREETS BY THE CONTRACTOR.
3. SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAP & BLOCK & GRAVEL INLET PROTECTION DEVICES WHEN STORAGE CAPACITY HAS BEEN APPROXIMATELY 50% FILLED. GRAVEL WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS PROPERLY.
4. INSPECT SILT FENCES AT LEAST ONCE A WEEK & AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF THE SILT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN EVENT & TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEAN OUT.
5. ALL SEEDED AREAS WILL BE FERTILIZED, RE-SEEDED AS NECESSARY, & MULCHED ACCORDING TO THE SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.

EROSION CONTROL CONSTRUCTION SEQUENCE:

1. OBTAIN NCDEQ PERMIT / APPROVAL TO PROCEED.
2. EROSION & SEDIMENT CONTROL (E&SC) PERMIT & A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE ANY LAND DISTURBING ACTIVITIES (INCLUDING TIMBERING & DEMOLITION) OCCUR.
3. SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH NCDEQ DIVISION OF ENERGY, MINERAL, & LAND RESOURCES WILMINGTON REGIONAL OFFICE AT (910)-796-7326. FAILURE TO PERFORM THIS STEP BEFORE PERFORMING LAND DISTURBING ACTIVITIES MAY RESULT IN A NOTICE OF VIOLATION OR FINES. NOTIFY NCDEQ INSPECTOR A MINIMUM OF 48 HOURS BEFORE PROJECT STARTS.
4. STOCKPILES, LAYDOWN OR WASTE AREAS, CONCRETE WASHOUTS, PORTABLE TOILETS, AND FUELS MUST BE LOCATED AT LEAST 50 FEET AWAY FROM ANY OPEN WATER CONVEYANCES, SUCH AS BASINS, DITCHES, STORM DRAIN INLETS, ETC. THE LOCATION OF THESE ACTIVITIES MAY BE FIELD ADJUSTED IF THE DISTANCE REQUIREMENTS ARE MET.
5. INSTALL EROSION & SEDIMENTATION CONTROL DEVICES PER THE APPROVED EROSION CONTROL PLANS. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES.
   5.1 - SILT FENCING, SILT FENCE OUTLETS;
   5.2 - COMPOST FILTER SOCKS;
   5.3 - GRAVEL CONSTRUCTION ENTRANCE
6. INSTALL SKIMMER BASINS AS SHOWN ON THE APPROVED EROSION CONTROL PLANS, AND THE FOLLOWING ASSOCIATED EROSION CONTROL DEVICES, CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES:
   6.1. SKIMMER SEDIMENT BASINS, BAFFLES, AND SKIMMERS
   6.2. DIVERSION DITCHES AND CHECK DAMS
   6.3. SLOPE DRAINS
7. STABILIZE ALL AREAS DISTURBED BY THE INSTALLATION OF THESE DEVICES IN ACCORDANCE WITH THE NCDEQ GROUND STABILIZATION GUIDELINES.
8. PROCEED WITH PROPOSED SITE WORK.
9. NO MAJOR GRADING ACTIVITIES ARE TO TAKE PLACE DURING WET WEATHER OR PERIODS OF PREDICTED WET WEATHER.
10. MAINTAIN EROSION CONTROL DEVICES AS NEEDED THROUGHOUT CONSTRUCTION.
11. SITE MUST BE "STORM READY" BEFORE ANY EXTENDED BREAKS IN CONSTRUCTION ACTIVITIES INCLUDING WEEKENDS.
12. UPON COMPLETION OF CONSTRUCTION, SEED & STABILIZE REMAINING DISTURBED AREAS.
13. PERIMETER MEASURES MUST BE LEFT IN PLACE UNTIL ALL UPLAND AREAS ARE PERMANENTLY STABILIZED.
14. CALL NCDEQ TO SCHEDULE ON-SITE PROJECT CLOSE-OUT INSPECTION.
15. REMOVE TEMPORARY EROSION CONTROL MEASURES ONLY WITH SPECIFIC APPROVAL FROM NCDEQ DIVISION OF ENERGY, MINERAL & LAND RESOURCES. SEED & STABILIZE RESULTING DISTURBED AREAS.
16. REMOVE TEMPORARY CONSTRUCTION ENTRANCE & INSTALL PERMANENT DRIVEWAY. SEED ALL DISTURBED AREAS.
17. FILE FOR NPDES NCG01000 e-NOTICE OF TERMINATION WHEN FINAL CLOSE-OUT INSPECTION REPORT IS RECEIVED FROM NCDEQ DIVISION OF ENERGY, MINERAL & LAND RESOURCES.

SEDIMENT BASIN DECOMMISSIONING:

1. DEWATER THE BASIN BY PUMPING THE RETAINED WATER THROUGH A SILT BAG DOWNSTREAM OF THE BASIN. THE SILT BAG MUST BE IN GOOD WORKING ORDER AND FREE OF TEARS.
2. ONCE THE BASIN IS DEWATERED, REMOVE ACCUMULATED SEDIMENT FROM THE EXCAVATED SEDIMENT STORAGE AREA. SEDIMENT MUST BE STORED IN A LOCATION APPROVED FOR STOCKPILING AND PROTECTED WITH SUITABLE EROSION CONTROL DEVICES.
3. REMOVE BAFFLES AND ROUGH GRADE BASIN AREA TO PROPOSED GRADES SHOWN ON THE GRADING PLAN SHEETS (C4.XX SERIES)
4. SEED AND MULCH THE DISTURBED AREAS IN ACCORDANCE WITH THE SEEDING SPECIFICATIONS INCLUDED IN THESE PLANS. COVER SEEDED AREAS WITH AN APPROPRIATE ROLLED EROSION CONTROL PRODUCT.
5. REPAIR AND RESEED BALD/DAMAGED AREAS IMMEDIATELY.

WithersRavenel
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WHITEVILLE, N.C. CITY OF CHARACTER 1885

CONFORMED CONSTRUCTION DOCUMENTS

WHITEVILLE COMMUNITY SPACE

907 S MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

Signed by: Spencer W. Meeking
NORTH CAROLINA PROFESSIONAL SEAL 056188 ENGINEER SPENCER W. MEEKING
12/19/2025

SCALE AS SHOWN

INITIAL PLAN DATE: 08/25/2025
REVISIONS:
-
-
-

WR JOB NUMBER 23-0695
DRN: JMD DGN: JMD CKD: JAB

EROSION CONTROL DETAILS

C5.01

J:\23\0695-Whiteville - Design Services for Community Space\CAD\Drawing Sets\Conformed Set\C5.XX EROSION CONTROL DETAILS.dwg, Wednesday, August 6, 2025 2:36:29 PM - JABBATCO

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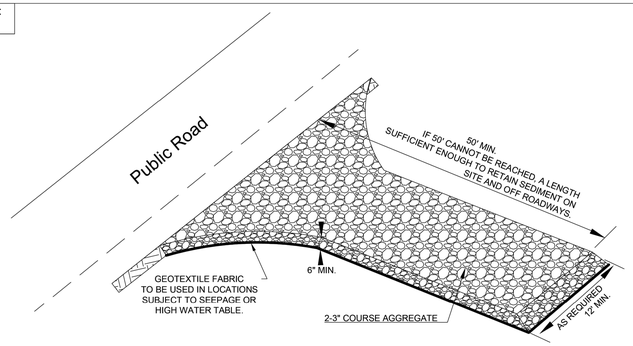


Construction:
1. Clear the entrance and exit area of all vegetation, roots, and other objectionable material and properly grade it.
2. Place the gravel to the specific grade and dimensions shown on the plans, and smooth it.
3. Provide drainage to carry water to a sediment trap or other suitable outlet.
4. Use geotextile fabrics in order to improve stability of the foundation in locations subject to seepage or high water table.

Maintenance:
1. Inspect all measures at least weekly and after each rainfall of 1.0 inch or greater. Make any required repairs immediately.
2. Maintain the gravel pad in a condition to prevent mud or sediment from leaving the construction site. This may require periodic topdressing with 2-inch stone.
3. Sediment on roadways is to be removed immediately by broom and shovel, either by manual or mechanical means, and not to be washed off where it has the potential to enter a stream, drainage way or storm drain system.

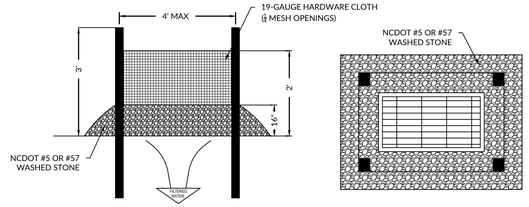
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT

Effective Date: 9/1/2023
In accordance with the 2013 Design Manual Updates

01 TEMPORARY CONSTRUCTION ENTRANCE
NOT TO SCALE

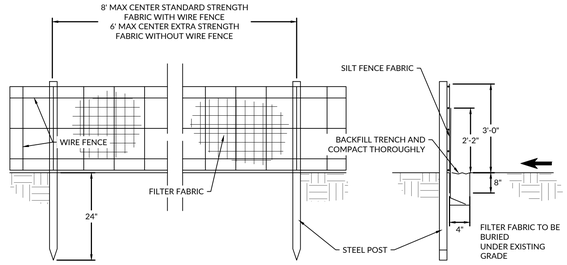
NOTES:
1. UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING THE INLET.
2. DRIVE 5-FOOT STEEL POSTS 2 FEET INTO THE GROUND SURROUNDING THE INLET. SPACE POSTS EVENLY AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 4 FEET APART.
3. SURROUND THE POSTS WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL POSTS AT THE TOP, MIDDLE, AND BOTTOM. PLACE A 2-FOOT FLAP OF THE WIRE MESH UNDER THE GRAVEL FOR ANCHORING.
4. PLACE CLEAN GRAVEL (NC DOT #5 OR #57 STONE) ON A 2:1 SLOPE WITH A HEIGHT OF 16 INCHES AROUND THE WIRE AND SMOOTH TO AN EVEN GRADE.
5. ONCE THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ACCUMULATED SEDIMENT AND ESTABLISH FINAL GRADING ELEVATIONS.
6. COMPACT THE AREA PROPERLY AND STABILIZED IT WITH GROUNDCOVER.

MAINTENANCE NOTES:
1. INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT.
2. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS.
3. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL.
4. REPLACE STONE AS NEEDED.



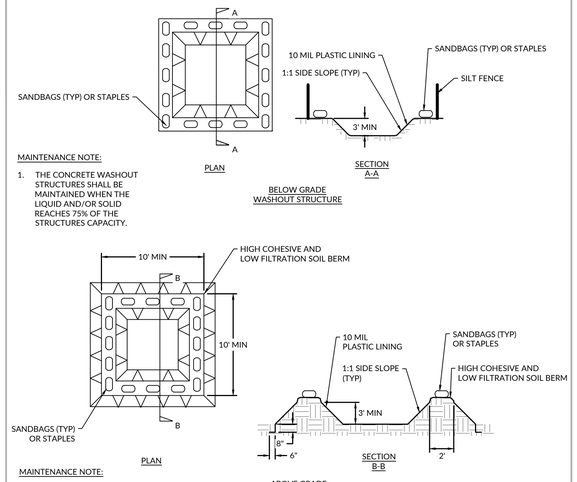
HARDWARE CLOTH AND GRAVEL INLET PROTECTION — EROSION CONTROL
Scale:NTS — C4051

02 HARDWARE CLOTH AND GRAVEL INLET PROTECTION
NOT TO SCALE



MAINTENANCE NOTES:
1. INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
2. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
3. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
4. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

03 SILT FENCE PROTECTION
NOT TO SCALE



MAINTENANCE NOTE:
1. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY.

BELOW GRADE WASHOUT STRUCTURE

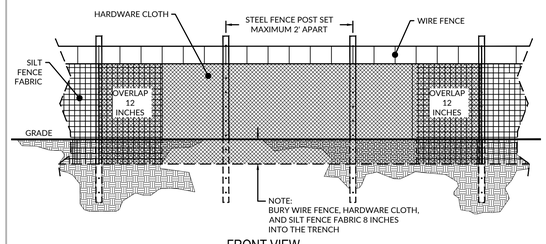
MAINTENANCE NOTE:
1. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.

ABOVE GRADE WASHOUT STRUCTURE

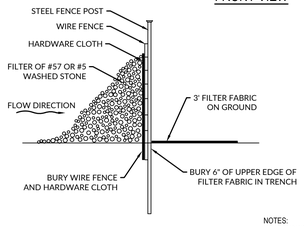
NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
2. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER — EROSION CONTROL
Scale:NTS — C4001

04 CONCRETE WASHOUT
NOT TO SCALE



FRONT VIEW



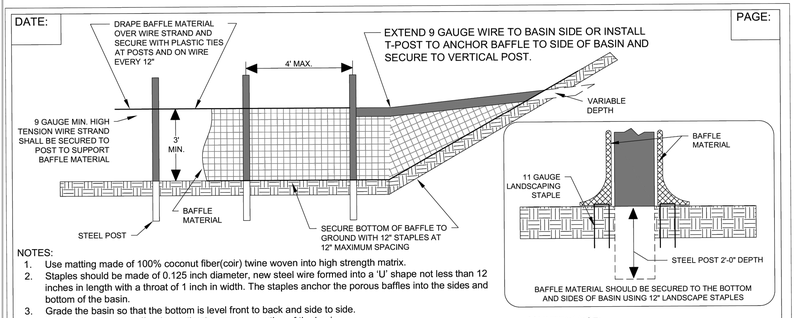
SECTION VIEW

NOTES:
1. HARDWARE CLOTH AND GRAVEL SHOULD OVERLAY THE SILT FENCE AT LEAST 12 INCHES.
2. STONE OUTLETS SHOULD BE PLACED ON LOW ELEVATION AREAS OF SILT FENCE AND BASED ON FIELD CONDITIONS.

MAINTENANCE:
1. PER NCG-01, INSPECT OUTLET AT LEAST ONCE A WEEK AND AFTER EACH 1 INCH OR GREATER RAINFALL EVENT. COMPLETE ANY REQUIRED REPAIRS IMMEDIATELY. FRESHEN STONE WHEN SEDIMENT ACCUMULATION EXCEEDS 6 INCHES. KEEP MESH FREE OF DEBRIS TO PROVIDE ADEQUATE FLOW.
2. REMOVE SEDIMENT WHEN HALF OF STONE OUTLET IS COVERED.
3. REPLACE STONE AS NEEDED TO FACILITATE DE-WATERING.

05 SILT FENCE OUTLET
NOT TO SCALE

DATE: PAGE:



NOTES:
1. Use matting made of 100% coconut fiber(coir) twine woven into high strength matrix.
2. Staples should be made of 0.125 inch diameter, new steel wire formed into a 'U' shape not less than 12 inches in length with a throat of 1 inch in width. The staples anchor the porous baffles into the sides and bottom of the basin.
3. Grade the basin so that the bottom is level front to back and side to side.
4. Install the coir fiber baffles immediately upon excavation of the basins.
5. Install posts across the width of the sediment trap.
6. Steel posts should be driven to a depth of 24 inches and spaced in a maximum of 4 feet apart. The top of the fabric should be a minimum of 6 inches higher than the invert of the spillway. Tops of the baffles should be a minimum of 2 inches lower than the top of the earthen embankment.
7. Install 3 coir fiber baffles in basins at drainage outlets with a spacing of 1/4 the basin length. 2 coir fiber baffles can be installed in the basins less than 20 feet in length with a spacing of 1/3 the basin length.
8. Attach a 9-gauge high tension wire strand to the steel posts at a height of 6 inches above the spillway elevation with plastic ties or wire fasteners to prevent sagging. If the temporary sediment basin will be converted to a permanent stormwater basin of a greater depth, the baffle height should be based on the pool depth during use as a temporary sediment basin.

MAINTENANCE:
1. Inspect all measures at least weekly and after each rainfall of 1.0 inch or greater and repair immediately.
2. Maintain access to baffles. If the fabric collapses, tears, decomposes, or becomes ineffective, replace immediately.
3. Remove sediment deposits when it reaches half full. Replace if baffle fabric is damaged during clean-out operations. Sediment depth should never exceed half the designed storage depth.

POROUS BAFFLES

Effective Date: 9/1/2023
In accordance with the 2013 Design Manual Updates

06 POROUS BAFFLES
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CONFORMED CONSTRUCTION DOCUMENTS

WHITEVILLE COMMUNITY SPACE

907 S MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

Signed by: Spencer W. Meeks
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 056188 SPENCER W. MEEKS
12/19/2025

SCALE AS SHOWN

INITIAL PLAN DATE: 08/25/2025
REVISIONS:
-
-
-

WR JOB NUMBER 23-0695
DRN: JMD DGN: JMD CKD: JAB

EROSION CONTROL DETAILS

C5.02

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DATE: PAGE:

TEMPORARY SEEDING RECOMMENDATIONS FOR LATE WINTER AND EARLY SPRING

Seeding Mixture

Species	Rate (lb/acre)
Rye (grain)	120
Annual lespedeza (Kobe in Piedmont and Coastal Plain, Korean in Mountains)	50

Omit annual lespedeza when duration of temporary cover is not to extend beyond June.

Seeding Dates
Mountains—Above 2500 feet: Feb. 15 - May 15
Below 2500 feet: Feb. 1- May 1
Piedmont—Jan. 1 - May 1
Coastal Plain—Dec. 1 - Apr. 15

Mulch
Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

Maintenance
Refertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damage.

TEMPORARY SEEDING RECOMMENDATIONS FOR SUMMER

Seeding Mixture

Species	Rate (lb/acre)
German millet	40

In the Piedmont and Mountains, a small-stemmed Sudangrass may be substituted at a rate of 50 lb/acre.

Seeding Dates
Mountains — May 15 - Aug. 15
Piedmont — May 1 - Aug. 15
Coastal Plain — Apr. 15 - Aug. 15

Mulch
Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

Maintenance
Refertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damage.

TEMPORARY SEEDING RECOMMENDATIONS FOR FALL

Seeding Mixture

Species	Rate (lb/acre)
Rye (grain)	120

Seeding Dates
Mountains — Aug. 15 - Dec. 15
Coastal Plain and Piedmont — Aug. 15 - Dec. 31

Mulch
Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

Maintenance
Repair and refertilize damaged areas immediately. Topdress with 50 lb/acre of nitrogen in March. If it is necessary to extend temporary cover beyond June 15, overseed with 50 lb/acre Kobe (Piedmont and Coastal Plain) or Korean (Mountains) lespedeza in late February or early March.

SEED BED PREPARATION:

LIMING- Apply lime according to soil test recommendations. If the pH (acidity) of the soil is not known, an application of ground agricultural limestone at the rate of 1-1½ tons/acre on coarse-textured soils and 2-3 tons/acre on fine-textured soils is usually sufficient. Apply limestone uniformly and incorporate into the top 4-6 inches of soil. Soils with a pH of 6 or higher need not be limed.
FERTILIZER- Base application rates on soil tests. When these are not possible, apply a 10-10-10 grade fertilizer at 700 - 1,000 lb/acre. Both fertilizer and lime should be incorporated into the top 4-6 inches of soil. If a hydraulic seeder is used, do not mix seed and fertilizer more than 30 minutes before application.
SURFACE ROUGHENING- If recent tillage operations have resulted in a loose surface additional roughening may not be required, except to break up large clods. If rainfall causes the surface to become sealed or crusted, loosen it just prior to seeding by raking, harrowing, or other suitable methods for fine grading. The finished grade shall be a smooth even soil surface with a loosen uniformly fine texture. All ridges and depressions shall be removed and filled to provide the approved surface drainage. Planting is to be done immediately after finished grades are obtained and seedbed preparation is completed.

DEQ

TEMPORARY SEEDING

Effective Date: 9/1/2023
In accordance with the 2013 Design Manual Updates

DATE: PAGE:

NON-INVASIVE PERMANENT SEEDING RECOMMENDATIONS FOR LATE WINTER AND EARLY SPRING

SEEDING MIXTURE

Species	Rate
Centipede	5 lbs/acre
Indian Woodoats	1.5-2.5 lbs/acre*
Virginia Wild Rye	4-6 lbs/acre

*Depending upon mix with other species. See table 6.11.d from Chapter 6 of the NC Erosion and Sediment Control Planning and Design Manual.

Seeding Dates
Coastal or Eastern Piedmont for Centipede- Sept. 1 - May 1
Coastal and Piedmont for Indian Woodoats and Virginia Wild Rye- Feb 15 - April 1
Mountains for Indian Woodoats and Virginia Wild Rye- March 1 - May 15

Maintenance:
Significant maintenance may be required to obtain desired cover.

NON-INVASIVE PERMANENT SEEDING RECOMMENDATIONS FOR SUMMER

SEEDING MIXTURE

Species	Rate
Indian Woodoats	1.5-2.5 lbs/acre*
Virginia Wild Rye	4-6 lbs/acre*

*Depending upon mix with other species. See table 6.11.d from Chapter 6 of the NC Erosion and Sediment Control Planning and Design Manual.

Seeding Dates
Mountains - July 15- Aug 15
Piedmont - Aug 15 - Oct 15

Maintenance:
Indian Woodoats and Virginia Wild Rye are both sun and shade tolerant.

NON-INVASIVE PERMANENT SEEDING RECOMMENDATIONS FOR FALL

SEEDING MIXTURE

Species	Rate
Hard Fescue	15 lbs/acre
Switchgrass	2.5-3.5 lbs/acre*
Indian Grass	5-7 lbs/acre*
Big Bluestem	5-7 lbs/acre*
Indian Woodoats	1.5-2.5 lbs/acre*
Virginia Wild Rye	4-6 lbs/acre*

*Depending upon mix with other species. See table 6.11.d from Chapter 6 of the NC Erosion and Sediment Control Planning and Design Manual.

Seeding Dates
Mountains - Hard Fescue- Aug 1 - June 1
Mountains- Switchgrass, Indian Grass, Big Bluestem- Dec 1 - April 15
Piedmont and Coastal- Switchgrass, Indian Grass, Big Bluestem- Dec 1 - April 1
Coastal- Indian Woodoats and Virginia Wild Rye- Sept 1 - Nov 1

Maintenance:
Hard Fescue is not recommended for slopes > 5%. Prefers shade.

SEED BED PREPARATION:

LIMING- Apply lime according to soil test recommendations. If the pH (acidity) of the soil is not known, an application of ground agricultural limestone at the rate of 1 to 1 ½ tons/acre on coarse0textured soils and 2-3 tons/acre on fine-textured soils is usually sufficient. Apply limestone uniformly and incorporate into the top 4-6 inches of soil. Soils with a pH of 6 or higher need not be limed.
FERTILIZER- Base application rates on soil tests. When these are not possible, apply a 10-10-10 grade fertilizer at 700-1,000 lb/acre. Both fertilizer and lime should be incorporated into the top 4-6 inches of soil. If a hydraulic seeder is used, do not mix seed and fertilizer more than 30 minutes before application.
SURFACE ROUGHENING- If recent tillage operations have resulted in a loose surface additional roughening may not be required, except to break up large clods. If rainfall causes the surface to become sealed or crusted, loosen it just prior to seeding by raking, harrowing, or other suitable methods for fine grading. the finished grade shall be a smooth even soil surface with a loosen uniformly fine texture. all ridges and depressions shall be removed and filled to provide the approved surface drainage . Planting is to be done immediately after finished grades are obtained and seedbed preparation is completed.

NOTES:
1. Permanent seeding, sodding or other means of stabilization are required when all construction work is completed according to the NPDES timeframes table.
2. A North Carolina Department of Agriculture soils test (or equal) is highly recommended to be obtained for all areas to be seeded, sprigged, sodded or planted.
3. Use a seeding mix that will produce fast0growing nurse crops and includes non-invasive species that will eventually provide a permanent groundcover. Soil blankets may be used in lieu of nurse crops. Mat, tack or crimp mulch, as needed to stabilize seeded areas until root establishment. Mulch must cover at leaser 80% of the soil surface.
4. Ground cover shall be maintained until permanent vegetation is established and stable against accelerated erosion.

DEQ

PERMANENT SEEDING

Effective Date: 9/1/2023
In accordance with the 2013 Design Manual Updates

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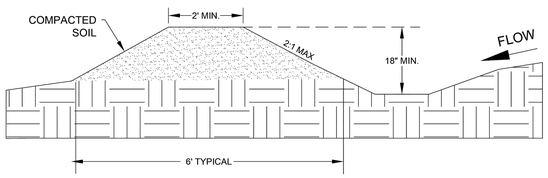
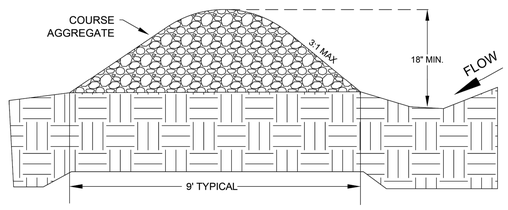
TEMPORARY EARTHEN DIVERSION DIKE



TEMPORARY GRAVEL DIVERSION DIKE FOR VEHICLE CROSSING



NOTES:
1. Remove and properly dispose of all tree, brush, stumps, and other objectionable material.
2. Temporary diversions are to only be used for drainage areas of 5 acres or less.
3. Ridges will have a 2 feet minimum top width, 2:1 or flatter side slopes and a minimum of 0.3 feet freeboard.
4. Channels will have a parabolic, trapezoidal, or V shape with side slopes of 2:1 or flatter.
5. Any point where vehicles will be crossing should have 3:1 or flatter side slopes.
6. Ensure the top of the dike is not lower at any point than the design elevation plus the specified settlement.
7. Provide sufficient room around diversions to permit machine re-grading and cleanout.
8. Vegetate the ridge immediately after construction unless it will remain in place less than 30 working days.

MAINTENANCE:
1. Inspect all measures at least weekly and after every rainfall of 1.0 inch or greater.
2. Make all repairs immediately.
3. Immediately remove any sediment from the flow area and repair the diversion ridge.
4. Check outlets and make timely repairs as needed.

DEQ

TEMPORARY DIVERSIONS

Effective Date: 9/1/2023
In accordance with the 2013 Design Manual Updates

07 TEMPORARY DIVERSIONS
NOT TO SCALE

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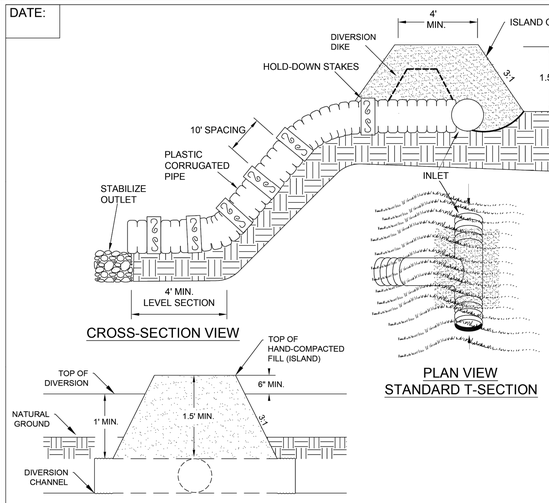

CROSS-SECTION VIEW

PLAN VIEW
STANDARD T-SECTION

Size of Slope Drain	
Max. Drainage Area per Pipe (Acres)	Pipe Diameter (Inches)
0.50	12
0.75	15
1.00	18
>1.00*	as designed
* Inlet design becomes more complex beyond this size.	

NOTES:
1. Place slope drains on undisturbed soil or well compacted fill at locations and elevations shown on the plan.
2. Slightly slope the section of pipe under the dike toward its outlet.
3. Hand tamp the soil under and around the entrance section in lifts not to exceed 6 inches.
4. Fill over the drain at the top of the slope to a minimum of 1.5 feet depth, 4 feet top width and 3:1 side slopes.
2. Ensure all slope drain connections are watertight.
3. Compact fill material and securely fasten the exposed section of the drain with grommets or stakes spaced no more than 10 feet apart.
4. Extend the drain beyond the toe of the slope, and adequately protect the outlet from erosion.
5. Make the compacted, settled dike ridge no less than 1 foot above the top of the pipe at every point.
6. Immediately stabilize all disturbed areas following construction.

MAINTENANCE:
1. Inspect all measures at least weekly and after each rainfall of 1.0 inch or greater; repair immediately.

DEQ

TEMPORARY SLOPE DRAINS

Effective Date: 9/1/2023

08 TEMPORARY SLOPE DRAINS
NOT TO SCALE

Slope Drain Summary		
Slope Drain ID	Drainage Area (ac)	Pipe Diameter (in)
1	0.94	18.00

Design Storm	10-YR
Rainfall Intensity	8.48

CHANNEL DESIGN INFORMATION

CHANNEL I.D.	DRAINAGE AREA (AC)	WEIGHTED 'C' COEFFICIENT	CHANNEL FLOW (CFS)	CHANNEL SLOPE (%)	CHANNEL FLOW DEPTH (FT)	CHANNEL MINIMUM DEPTH (FT)	CHANNEL BOTTOM WIDTH (FT)	CHANNEL SIDE SLOPES	CHANNEL VELOCITY (FPS)	ALLOWABLE VELOCITY (FPS)	CHANNEL SHEAR STRESS (PSF)	ALLOWABLE SHEAR STRESS (PSF)	DITCH LINING	DOES SELECTED LINER WORK (VISUAL CHECK)
1	0.20	0.52	0.88	0.50	0.99	1.50	1.00	3 :1	0.22	5.00	0.31	1.60	NAG S75BN OR EQUAL	Selected Liner Works
2	0.94	0.63	5.03	0.50	0.52	1.50	1.00	3 :1	3.77	5.00	0.16	1.60	NAG S75BN OR EQUAL	Selected Liner Works

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CONFORMED CONSTRUCTION DOCUMENTS

WHITEVILLE COMMUNITY SPACE

907 S MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

Signed by: [redacted]
NORTH CAROLINA PROFESSIONAL SEAL 056188 ENGINEER SPENSER W. MEEKINS
12/19/2025

SCALE AS SHOWN

INITIAL PLAN DATE: 08/25/2025
REVISIONS:
-
-
-

WR JOB NUMBER 23-0695
DRN: JMD DGN: JMD CKD: JAB

EROSION CONTROL DETAILS

C5.03

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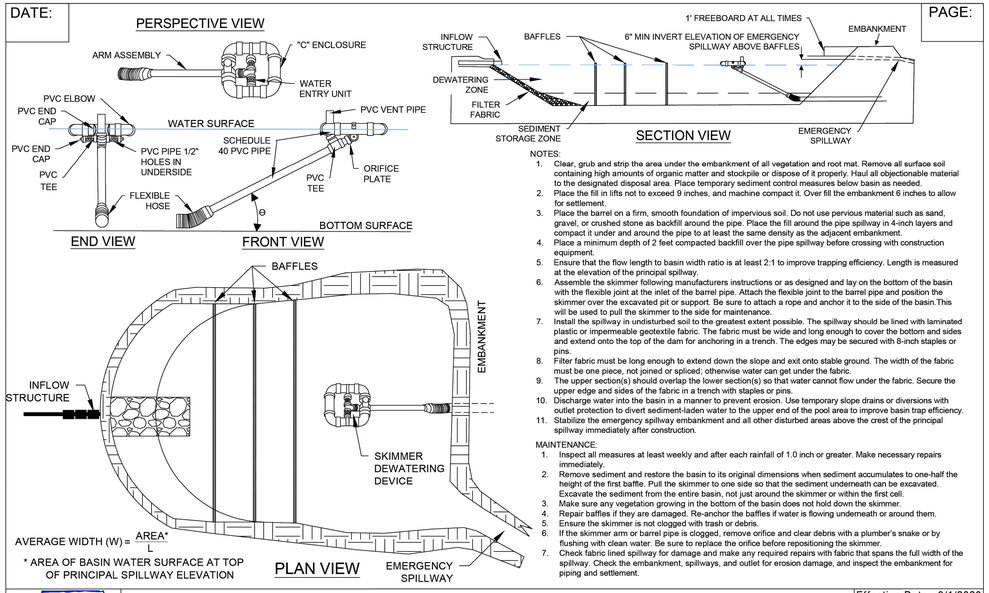


NOTES:

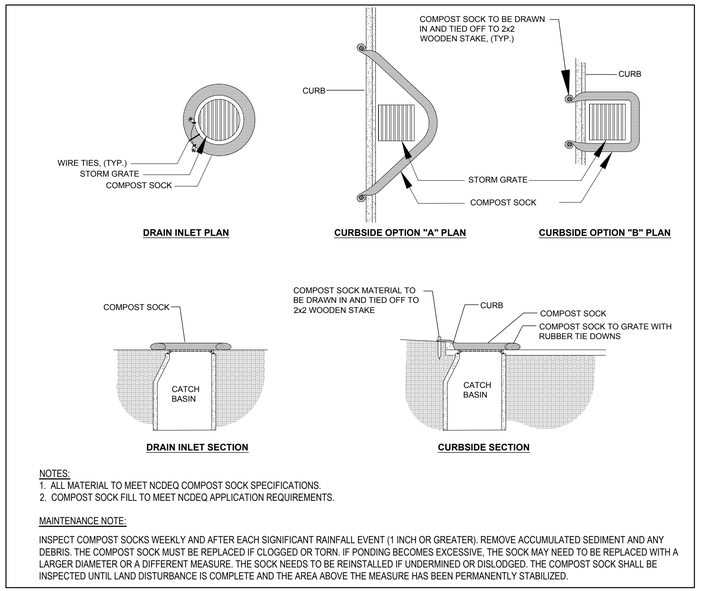
1. Clear, grub and strip the area under the embankment of all vegetation and root mat. Remove all surface soil containing high amounts of organic matter and stockpile or dispose of it properly. Haul all objectionable material to the designated disposal area. Place temporary sediment control measures below basin as needed.
2. Place the fill in lifts not to exceed 9 inches, and machine compact it. Over fill the embankment 6 inches to allow for settlement.
3. Place the barrel on a firm, smooth foundation of impervious soil. Do not use pervious material such as sand, gravel, or crushed stone as backfill around the pipe. Place the fill around the pipe spillway in 4-inch layers and compact it under and around the pipe to at least the same density as the adjacent embankment.
4. Place a minimum depth of 2 feet compacted backfill over the pipe spillway before crossing with construction equipment.
5. Ensure that the flow length to basin width ratio is at least 2:1 to improve trapping efficiency. Length is measured at the elevation of the principal spillway.
6. Assemble the skimmer following manufacturers instructions or as designed and lay on the bottom of the basin with the flexible joint at the inlet of the barrel pipe. Attach the flexible joint to the barrel pipe and position the skimmer over the excavated pit or support. Be sure to attach a rope and anchor it to the side of the basin.This will be used to pull the skimmer to the side for maintenance.
7. Install the spillway in undisturbed soil to the greatest extent possible. The spillway should be lined with laminated plastic or impermeable geotextile fabric. The fabric must be wide and long enough to cover the bottom and sides and extend onto the top of the dam for anchoring in a trench. The edges may be secured with 8-inch staples or pins.
8. Filter fabric must be long enough to extend down the slope and exit onto stable ground. The width of the fabric must be one piece, not joined or spliced; otherwise water can get under the fabric.
9. The upper section(s) should overlap the lower section(s) so that water cannot flow under the fabric. Secure the upper edge and sides of the fabric in a trench with staples or pins.
10. Discharge water into the basin in a manner to prevent erosion. Use temporary slope drains or diversions with outlet protection to divert sediment-laden water to the upper end of the pool area to improve basin trap efficiency.
11. Stabilize the emergency spillway embankment and all other disturbed areas above the crest of the principal spillway immediately after construction.

MAINTENANCE:

1. Inspect all measures at least weekly and after each rainfall of 1.0 inch or greater. Make necessary repairs immediately.
2. Remove sediment and restore the basin to its original dimensions when sediment accumulates to one-half the height of the first baffle. Pull the skimmer to one side so that the sediment underneath can be excavated. Excavate the sediment from the entire basin, not just around the skimmer or within the first cell.
3. Make sure any vegetation growing in the bottom of the basin does not hold down the skimmer.
4. Repair baffles if they are damaged. Re-anchor the baffles if water is flowing underneath or around them.
5. Ensure the skimmer is not clogged with trash or debris.
6. If the skimmer arm or barrel pipe is clogged, remove orifice and clear debris with a plumber's snake or by flushing with clean water. Be sure to replace the orifice before repositioning the skimmer.
7. Check fabric lined spillway for damage and make any required repairs with fabric that spans the full width of the spillway. Check the embankment, spillways, and outlet for erosion damage, and inspect the embankment for piping and settlement.

SKIMMER SEDIMENT BASIN

Effective Date: 9/1/2023
In accordance with the 2013 Design Manual Updates



NOTES:
1. ALL MATERIAL TO MEET NCDEQ COMPOST SOCK SPECIFICATIONS.
2. COMPOST SOCK FILL TO MEET NCDEQ APPLICATION REQUIREMENTS.

MAINTENANCE NOTE:

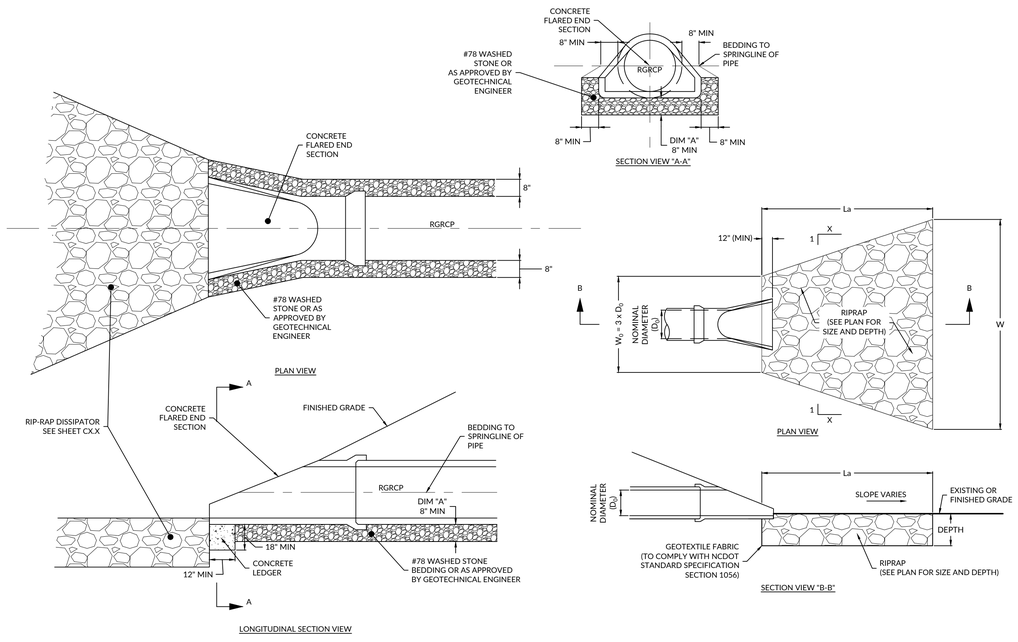
INSPECT COMPOST SOCKS WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1 INCH OR GREATER). REMOVE ACCUMULATED SEDIMENT AND ANY DEBRIS. THE COMPOST SOCK MUST BE REPLACED IF CLOGGED OR TORN. IF PONDING BECOMES EXCESSIVE, THE SOCK MAY NEED TO BE REPLACED WITH A LARGER DIAMETER OR A DIFFERENT MEASURE. THE SOCK NEEDS TO BE REINSTALLED IF UNDERMINED OR DISLODGED. THE COMPOST SOCK SHALL BE INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE HAS BEEN PERMANENTLY STABILIZED.

09 INLET PROTECTION
NOT TO SCALE

TEMPORARY SKIMMER BASIN AND ORIFICE DESIGN SUMMARY

BASIN	TYPE	DRAINAGE AREA	DISTURBED AREA	C VALUE	PEAK FLOW	DEPTH	LENGTH	WIDTH	WEIR LENGTH	VOLUME REQUIRED	VOLUME PROVIDED	SURFACE AREA REQUIRED	SURFACE AREA PROVIDED	SKIMMER SIZE	ORIFICE SIZE	Dewatering Time
		(AC)	(AC)		(CFS)	(FT)	(FT)	(FT)	(FT)	(CF)	(CF)	(SF)	(SF)	(IN)	(IN)	(DAYS)
SSB #1	SKIMMER	1.73	1.30	0.60	8.77	4.0	SEE EC PLANS		9	2,340	11,122	2,849	7,230	2.5	1.5	4.69
SSB #2	SKIMMER	2.53	2.07	0.54	11.53	4.0	SEE EC PLANS		11	3,726	21,237	3,747	11,913	3.0	2	4.60

NOTES: 1' OF FREEBOARD PROVIDED
SURFACE AREA REQUIREMENT FOR SKIMMER SEDIMENT BASIN 325 sf/cfs
SURFACE AREA REQUIREMENT FOR A SEDIMENT BASIN 435 sf/cfs
VOLUME REQUIREMENT FOR SKIMMER SEDIMENT BASIN & SEDIMENT BASIN: 1,800 cf/ac
RAINFALL INTENSITY: 8.48 in/hr



VELOCITY DISSIPATOR DESIGN SUMMARY

OUTLET	PIPE (Do)	Q10	SLOPE	VELOCITY	ZONE	TYPE	LENGTH (La)	WIDTH (W1)	WIDTH (W2)	STONE CLASS	MIN. DEPTH
	(IN)	(CFS)	(%)	(FPS)	(Figure 8.06c)	(Figure 8.06d)	(FT)	(FT)	(FT)		(IN)
FES-100	15	3.48	0.95	5.24	1	OVERLAND	3.75	3.75	5.0	A	12
FES-200	12	0.24	1.41	2.80	1	OVERLAND	3	3	4	A	12
FES-300	18	4.48	0.57	4.58	1	OVERLAND	4.5	4.5	6	A	12

NOTES
1. All dissipators shall have filter fabric underliners; NCDOT Standard Specification Section 1056, or approved equivalent
2. Outlet and downstream widths shall be installed as shown in chart unless discharging into a channel, where the riprap shall be placed from top of bank to top of bank.
3. Design based on Section 8.06, Design of Riprap Outlet Protection, from the NC Erosion & Sediment Control Planning & Design Manual.

OUTLET DETAIL (FLARED END SECTION) & RIPRAP VELOCITY DISSIPATOR (ADAPTED FROM HEC-14 & NYSDOT)
Scale:NTS

DRAINAGE MISC
C8007

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Signed by Spencer W. Meekins
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 056188 SPENCER W. MEEKINS
12/19/2025

SCALE AS SHOWN

INITIAL PLAN DATE: 08/25/2025
REVISIONS:
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DRN: JMD DGN: JMD CKD: JAB

EROSION CONTROL DETAILS

C5.04

J:\23\0695-Whiteville - Design Services for Community Space\CAD\Drawing Sets\Conformed Set\C5.XX EROSION CONTROL DETAILS.dwg Wednesday, August 6, 2025 2:56:40 PM - JADBATCO

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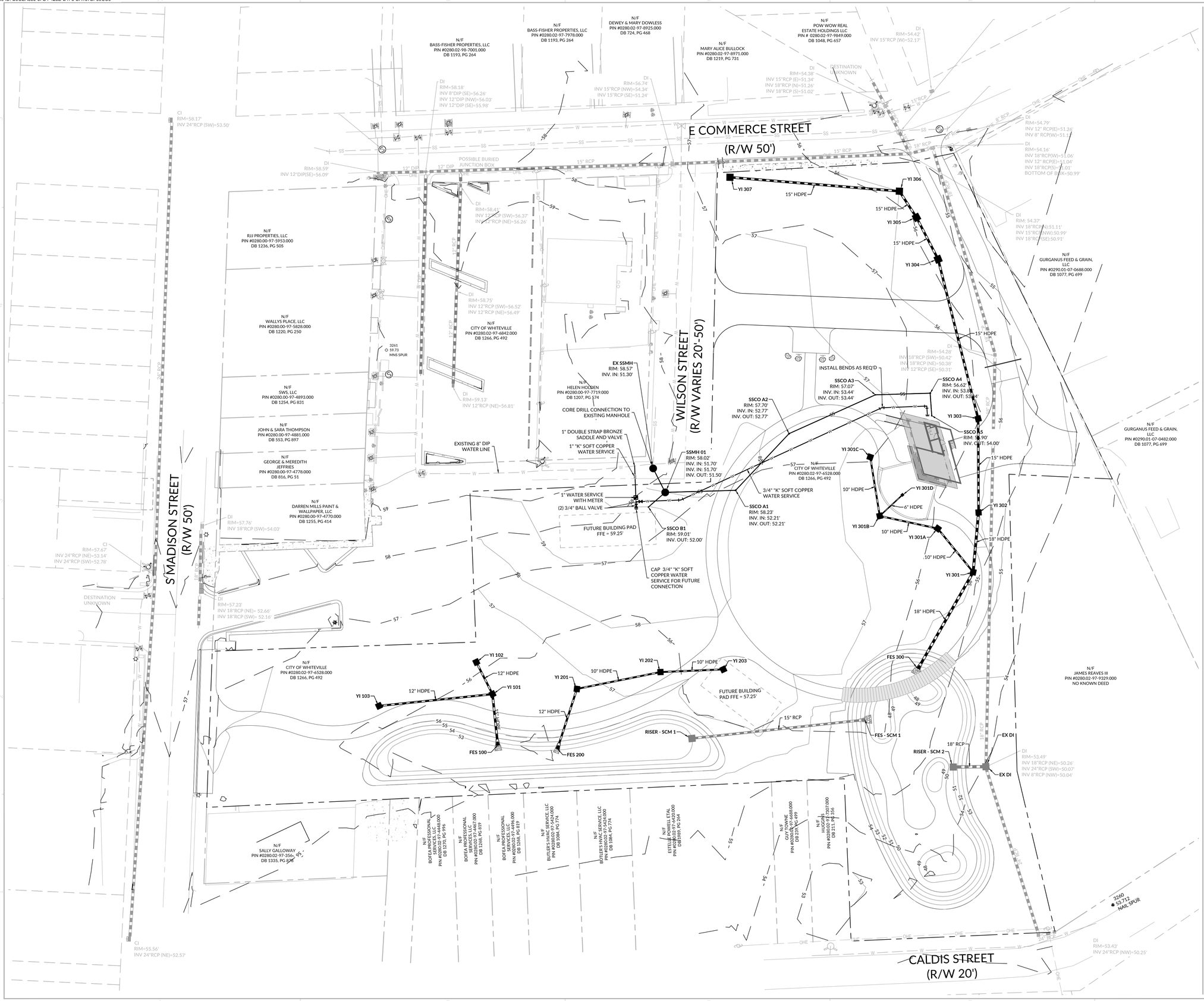

ALTERNATE NOTES:

ALTERNATE #1: BANDSHELL
BASE BID: TAP INTO MAIN WATER LINE, INSTALL METER AND VALVES, EXTEND LINE TO BANDSHELL, AND MAKE CONNECTIONS TO BUILDING. INSTALL SSMH 01, EXTEND LINE TO BUILDING, AND MAKE CONNECTIONS AT BUILDING.

ALTERNATE (DEDUCT): STUB WATER AND SEWER LINES 5' FROM BUILDING FOR FUTURE CONNECTIONS.

ALTERNATE #2: COMFORT STATION
BASE BID: STUB WATER LINES AT METER AND VALVE FOR FUTURE CONNECTION. PLUG SSMH 01 INVERT FOR FUTURE CONNECTION.

ALTERNATE (ADD): EXTEND WATER LINE FROM VALVE TO BUILDING AND MAKE CONNECTIONS. EXTEND SEWER LINE FROM SSMH 01 TO BUILDING AND MAKE CONNECTIONS.

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CITY OF WHITEVILLE, N.C. EST. 1983

CONFORMED CONSTRUCTION DOCUMENTS

WHITEVILLE COMMUNITY SPACE

907 S MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

Signed by: Spencer W. Meekins
ROBERT A. MEEKINS, JR.
PROFESSIONAL
SEAL
056188
ENGINEER
SPENCER W. MEEKINS
12/19/2025

0 15 30
SCALE: 1 inch = 30 ft.

INITIAL PLAN DATE: 08/25/2025
REVISIONS:
-
-
-

WR JOB NUMBER	23-0695
DRN: JMD	DGN: JMD CKD: JAB

UTILITY PLAN

C6.00

J:\23\0695 Whiteville - Design Services for Community Space\CAD\Drawing Sets\Conformed Set\C6.00-OVERALL UTILITY PLAN.dwg - Tuesday, August 26, 2025 9:19:18 AM - JDOLAN

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E COMMERCE STREET
(R/W 50')

S MADISON STREET
(R/W 50')

WILSON STREET
(R/W VARIES 20'-50')

CALDIS STREET
(R/W 20')

N/F
BASS-FISHER PROPERTIES, LLC
PIN #0280.02-98-7001.000
DB 1193, PG 264

N/F
BASS-FISHER PROPERTIES, LLC
PIN #0280.02-97-7978.000
DB 1193, PG 264

N/F
DEWEY & MARY DOWLESS
PIN #0280.02-97-8925.000
DB 724, PG 468

N/F
MARY ALICE BULLOCK
PIN #0280.02-97-8971.000
DB 1219, PG 731

N/F
POW WOW REAL
ESTATE HOLDINGS LLC
PIN # 0280.02-97-9849.000
DB 1048, PG 657

N/F
RJJ PROPERTIES, LLC
PIN #0280.00-97-5953.000
DB 1236, PG 505

N/F
WALLYS PLACE, LLC
PIN #0280.00-97-5828.000
DB 1220, PG 250

N/F
CITY OF WHITEVILLE
PIN #0280.02-97-6842.000
DB 1266, PG 492

N/F
SWS, LLC
PIN #0280.00-97-4893.000
DB 1254, PG 831

N/F
JOHN & SARA THOMPSON
PIN #0280.00-97-4881.000
DB 553, PG 897

N/F
GEORGE & MEREDITH
JEFFRIES
PIN #0280.00-97-4778.000
DB 816, PG 51

N/F
DARREN MILLS PAINT &
WALLPAPER, LLC
PIN #0280.00-97-4770.000
DB 1255, PG 414

N/F
HELEN HOLDEN
PIN #0280.00-97-7719.000
DB 1207, PG 574

N/F
GURGANUS FEED & GRAIN,
LLC
PIN #0290.01-07-0688.000
DB 1077, PG 699

N/F
GURGANUS FEED & GRAIN,
LLC
PIN #0290.01-07-0482.000
DB 1077, PG 699

N/F
JAMES REAVES III
PIN #0280.02-97-9329.000
NO KNOWN DEED

N/F
SALLY GALLOWAY
PIN #0280.02-97-3564.000
DB 1335, PG 878

N/F
BOFEA PROFESSIONAL
SERVICES, LLC
PIN #0280.02-97-6446.000
DB 1270, PG 990

N/F
BOFEA PROFESSIONAL
SERVICES, LLC
PIN #0280.02-97-4467.000
DB 1268, PG 819

N/F
BOFEA PROFESSIONAL
SERVICES, LLC
PIN #0280.02-97-4496.000
DB 1268, PG 815

N/F
BUTLER'S HVAC SERVICE, LLC
PIN #0280.02-97-4424.000
DB 1004, PG 774

N/F
BUTLER'S HVAC SERVICE, LLC
PIN #0280.02-97-5424.000
DB 1004, PG 774

N/F
ESTELLE POWELL ETAL
PIN #0280.02-97-6420.000
DB 1989, Pg 264

N/F
GUY WAYNE
PIN #0280.02-97-4688.000
DB 239, PG 499

N/F
HUGGINS
PIN #0280.01-97-7207.000
DB 111, PG 335

YI 306
RIM: 55.99'
INV. IN: 52.95' (YI 307)
INV. OUT: 52.85' (YI 305)

YI 307
RIM: 56.63'
INV. OUT: 53.55' (YI 306)

119.87 LF 15" HDPE @ 0.50%

22.08 LF 15" HDPE @ 0.50%

YI 305
RIM: 55.57
INV. IN: 52.74' (YI 306)
INV. OUT: 52.65' (YI 304)

33.21 LF 15" HDPE @ 0.76%

YI 304
RIM: 55.36'
INV. IN: 52.39' (YI 305)
INV. OUT: 52.29' (YI 303)

116.00 LF 15" HDPE @ 0.46%

YI 303
RIM: 56.69'
INV. IN: 51.76' (YI 304)
INV. OUT: 51.66' (YI 302)

66.13 LF 15" HDPE @ 0.43%

YI 301C
RIM: 56.53'
INV. OUT: 54.90' (YI 301B)

42.09 LF 10" HDPE @ 2.14%

YI 301D
RIM: 56.77'
INV. OUT: 54.23' (YI 301B)

YI 301B
RIM: 56.70'
INV. IN: 54.00' (YI 301C)
INV. IN: 53.99' (YI 301D)
INV. OUT: 53.90' (YI 301A)

41.85 LF 10" HDPE @ 1.04%

YI 302
RIM: 56.01'
INV. IN: 51.38' (YI 303)
INV. OUT: 51.28' (YI 301)

42.27 LF 18" HDPE @ 0.38%

YI 301A
RIM: 56.52'
INV. IN: 53.46' (YI 301B)
INV. OUT: 53.36' (YI 301)

39.59 LF 10" HDPE @ 2.50%

YI 301
RIM: 55.95'
INV. IN: 52.37' (YI 301A)
INV. IN: 51.12' (YI 302)
INV. OUT: 51.02' (FES 300)

FES 300
INV.: 50.50'

80.44 LF 18" HDPE @ 0.44%

YI 102
RIM: 56.00'
INV. OUT: 54.24' (YI 101)

YI 201
RIM: 56.74'
INV. IN: 53.87' (YI 202)
INV. OUT: 53.77' (FES 200)

YI 202
RIM: 57.14'
INV. IN: 54.52' (YI 203)
INV. OUT: 54.42' (YI 201)

YI 203
RIM: 57.09'
INV. OUT: 54.96' (YI 202)

80.44 LF 12" HDPE @ 0.50%

YI 103
RIM: 56.39'
INV. OUT: 54.25' (YI 101)

25.31 LF 12" HDPE @ 0.95%

YI 101
RIM: 56.35'
INV. IN: 54.00' (YI 102)
INV. IN: 53.85' (YI 103)
INV. OUT: 53.55' (FES 100)

44.36 LF 10" HDPE @ 1.00%

60.09 LF 10" HDPE @ 0.90%

FUTURE BUILDING
PAD FFE = 57.25'

FES - SCM 1
INV.: 50.50'

44.47 LF 12" HDPE @ 1.18%

36.25 LF 15" HDPE @ 0.83%

122.69 LF 15" RCP @ 0.82%

FES 100
INV.: 53.25'

FES 200
INV.: 53.25'

RISER - SCM 1
RIM: 53.75'
INV. OUT: 51.50' (FES - SCM 1)

SEE SHEET C8.02

SEE SHEET C8.01

EX DI
RIM: 53.49'
INV. IN: 50.00' (RISER - SCM 2)
INV. IN: 50.26' (EX 18")
INV. OUT: 50.00' (EX 24")

22.98 LF 18" RCP @ 1.09%

RISER - SCM 2
RIM: 53.00'
INV. OUT: 50.25' (EX DI)

FUTURE BUILDING PAD
FFE = 59.25'

STRUCTURES.

ACC

36" OAK

OHE

W

SS

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Signed by
SEAL
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SPENSER W. MEEKINS
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INITIAL PLAN DATE: 08/25/2025
REVISIONS:
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-
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WR JOB NUMBER	23-0695
DRN: JMD	DGN: JMD CKD: JAB

STORM DRAINAGE PLAN

C7.00

J:\23\0695-Whiteville - Design Services for Community Space\CAD\Drawing Set\Conformed Set\C7.00-OVERALL STORM DRAINAGE PLAN.dwg, Tuesday, August 26, 2025 9:23:45 AM - JDOLAN

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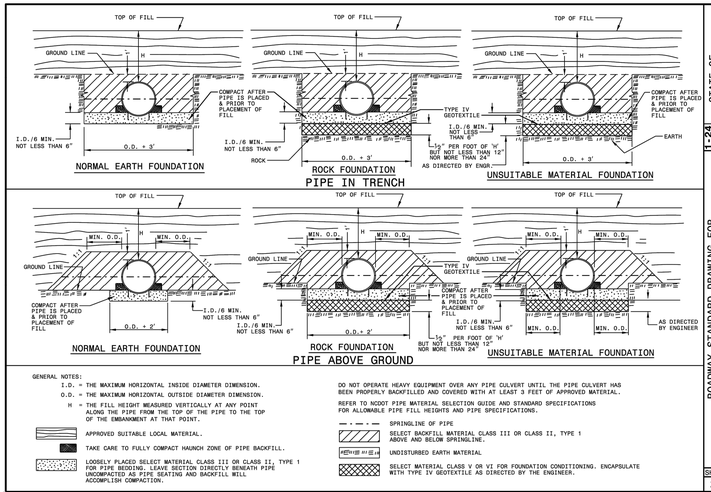

GENERAL NOTES:

I.D. = THE MAXIMUM HORIZONTAL INSIDE DIAMETER DIMENSION.
O.D. = THE MAXIMUM HORIZONTAL OUTSIDE DIAMETER DIMENSION.
H = THE FILL HEIGHT MEASURED VERTICALLY AT ANY POINT ALONG THE PIPE FROM THE TOP OF THE PIPE TO THE TOP OF THE EMBANKMENT AT THAT POINT.

APPROVED SUITABLE LOCAL MATERIAL.
TAKE CARE TO FULLY COMPACT HAUNCH ZONE OF PIPE BACKFILL.
LOOSELY PLACED SELECT MATERIAL CLASS III OR CLASS II, TYPE 1 FOR PIPE BEDDING. LEAVE SECTION DIRECTLY BENEATH PIPE UNCOMPACTED AS PIPE SEATING AND BACKFILL WILL ACCOMPLISH COMPACTION.

DO NOT OPERATE HEAVY EQUIPMENT OVER ANY PIPE CULVERT UNTIL THE PIPE CULVERT HAS BEEN PROPERLY BACKFILLED AND COVERED WITH AT LEAST 3 FEET OF APPROVED MATERIAL.

REFER TO NCDOT PIPE MATERIAL SELECTION GUIDE AND STANDARD SPECIFICATIONS FOR ALLOWABLE PIPE FILL HEIGHTS AND PIPE SPECIFICATIONS.

SPRINGLINE OF PIPE
SELECT BACKFILL MATERIAL CLASS III OR CLASS II, TYPE 1 ABOVE AND BELOW SPRINGLINE.
UNDISTURBED EARTH MATERIAL
SELECT MATERIAL CLASS V OR VI FOR FOUNDATION CONDITIONING. ENCAPSULATE WITH TYPE IV GEOTEXTILE AS DIRECTED BY THE ENGINEER.

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
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1-24

ROADWAY STANDARD DRAWING FOR
METHOD OF PIPE INSTALLATION
FLEXIBLE PIPE

SHEET 1 OF 2
300.01

GENERAL NOTES:

I.D. = THE MAXIMUM HORIZONTAL INSIDE DIAMETER DIMENSION.
O.D. = THE MAXIMUM HORIZONTAL OUTSIDE DIAMETER DIMENSION.
H = THE FILL HEIGHT MEASURED VERTICALLY AT ANY POINT ALONG THE PIPE FROM THE TOP OF THE PIPE TO THE TOP OF THE EMBANKMENT AT THAT POINT.

APPROVED SUITABLE LOCAL MATERIAL.
TAKE CARE TO FULLY COMPACT HAUNCH ZONE OF PIPE BACKFILL.
LOOSELY PLACED SELECT MATERIAL CLASS III OR CLASS II, TYPE 1 FOR PIPE BEDDING. LEAVE SECTION DIRECTLY BENEATH PIPE UNCOMPACTED AS PIPE SEATING AND BACKFILL WILL ACCOMPLISH COMPACTION.

DO NOT OPERATE HEAVY EQUIPMENT OVER ANY PIPE CULVERT UNTIL THE PIPE CULVERT HAS BEEN PROPERLY BACKFILLED AND COVERED WITH AT LEAST 3 FEET OF APPROVED MATERIAL.

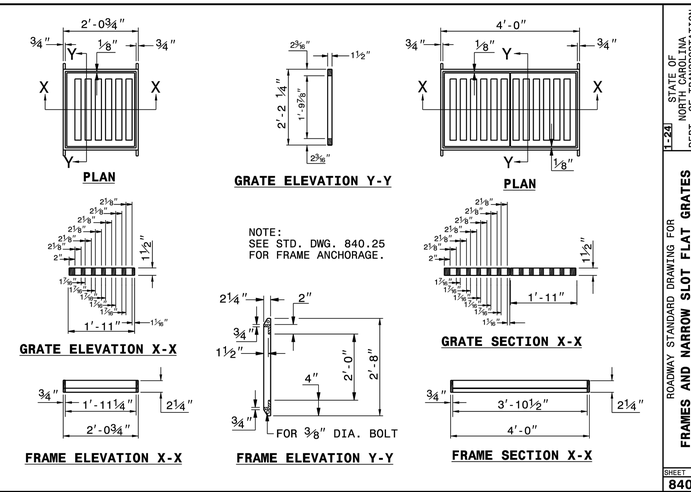
REFER TO NCDOT PIPE MATERIAL SELECTION GUIDE AND STANDARD SPECIFICATIONS FOR ALLOWABLE PIPE FILL HEIGHTS AND PIPE SPECIFICATIONS.

SPRINGLINE OF PIPE
SELECT BACKFILL MATERIAL CLASS III OR CLASS II, BELOW SPRINGLINE.
UNDISTURBED EARTH MATERIAL
SELECT MATERIAL CLASS V OR VI FOR FOUNDATION CONDITIONING. ENCAPSULATE WITH TYPE IV GEOTEXTILE AS DIRECTED BY THE ENGINEER.

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.
1-24

ROADWAY STANDARD DRAWING FOR
METHOD OF PIPE INSTALLATION
RIGID PIPE

SHEET 2 OF 2
300.01



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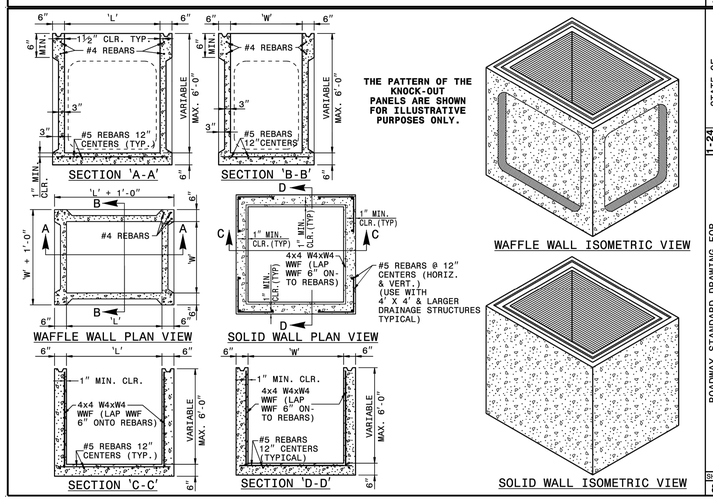
DIVISION OF HIGHWAYS
RALEIGH, N.C.
1-24

ROADWAY STANDARD DRAWING FOR
FRAMES AND NARROW SLOT FLAT GRATES

SHEET 1 OF 1
840.29



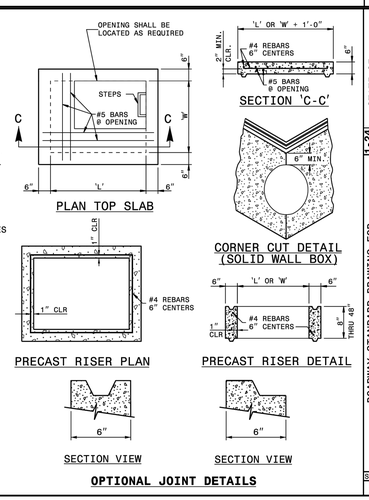
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.
1-24

ROADWAY STANDARD DRAWING FOR
PRECAST DRAINAGE STRUCTURE
(SOLID AND WAFFLE WALL)

SHEET 1 OF 2
840.45

GENERAL NOTES:

* THIS PRECAST BOX MAY BE USED FOR THE FOLLOWING STANDARDS: 840.01, 840.02, 840.04, 840.05, 840.13, 840.14, 840.15, 840.17, 840.18, 840.19, 840.26, 840.27, 840.28, 840.31, 840.32 AND 840.41.
* INSTALL PRECAST DRAINAGE STRUCTURES AND PAY FOR IN ACCORDANCE WITH SPECIFICATION SECTION 840.
* DO NOT PLACE PRECAST DRAINAGE STRUCTURES UNDER TRAFFIC OR WHERE TRAFFIC WILL BE DETOURED.
* USE 4000 PSI CONCRETE.
* PROVIDE ALL REINFORCING STEEL WHICH MEETS ASTM A615 FOR GRADE 60 AND WELDED WIRE FABRIC CONFORMING TO ASTM A1064.
* LIMIT MAXIMUM DEPTH TO TOP OF BOTTOM SLAB FOR WAFFLE WALL STRUCTURE TO 10'-0"; LIMIT SOLID WALL STRUCTURE TO 15'-0".
* PLACE LIFT HOLES OR PINS IN ACCORDANCE WITH OSHA STANDARD 1926.704.
* CUT OR FORM OPENINGS FOR PIPE TO PROVIDE REQUIRED SIZE AND LOCATION. ORIENT WAFFLE WALL STRUCTURES SO THAT PIPES ENTER THROUGH THE KNOCKOUT/WAFFLE PANELS ONLY. PIPES MAY ENTER THROUGH THE CORNERS OF SOLID WALL BOXES IF A MINIMUM OF 6" OF WALL IS PROVIDED ABOVE THE HOLE.
* ALL ELEMENTS PRECAST TO MEET ASTM C913.
* FRAME AND GRATE HEIGHT MAY BE ADJUSTED WITH CONCRETE OR BRICK IN ACCORDANCE WITH STANDARD 840.25.
* PROVIDE PRECAST STRUCTURES OVER 3'-6" IN DEPTH WITH STEPS AS DIRECTED BY THE ENGINEER.
* WELDED WIRE FABRIC MAY BE SUBSTITUTED FOR REBAR AS LONG AS THE SAME AREA OF STEEL IS PROVIDED.
* SEAL JOINTS WITH A FLEXIBLE BUTYL RUBBER BASE CONFORMING TO FEDERAL SPECIFICATION SS-S-21A, AASHTO M-198, TYPE B - BUTYL RUBBER.
* LIMIT MAXIMUM STRUCTURE SIZE TO INSIDE CLEAR DIMENSIONS OF 5'-0" X 5'-0".
* THE OUTSIDE PIPE DIAMETER PLUS 2" OR THE OPENING REQUIRED FOR FRAME AND GRATE IS THE MINIMUM STRUCTURE SIZE WHICHEVER IS GREATER.
* USE MANHOLE FRAME AND COVER AS INDICATED ON THE PLANS. REINFORCE OPENING AS SHOWN ON THIS SHEET.



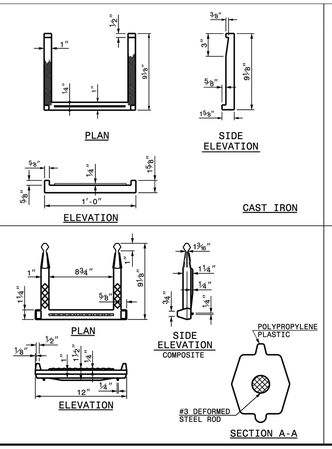
OPTIONAL JOINT DETAILS

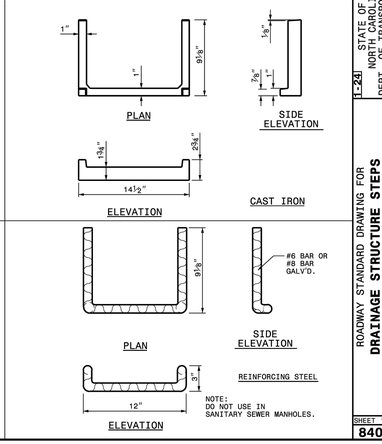
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.
1-24

ROADWAY STANDARD DRAWING FOR
PRECAST DRAINAGE STRUCTURE
(GENERAL NOTES AND DETAILS)

SHEET 2 OF 2
840.45

NOTES:
INSTALL ALL STEPS PROTRUDING 4" FROM INSIDE FACE OF STRUCTURE WALL.
STEPS DIFFERING IN DIMENSIONS, CONFIGURATION, OR MATERIALS FROM THOSE SHOWN MAY ALSO BE USED PROVIDED THE CONTRACTOR HAS FURNISHED THE ENGINEER WITH DETAILS OF THE PROPOSED STEPS AND HAS RECEIVED WRITTEN APPROVAL FROM THE ENGINEER FOR THE USE OF SUCH STEPS.





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DEPT. OF TRANSPORTATION
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RALEIGH, N.C.
1-24

ROADWAY STANDARD DRAWING FOR
DRAINAGE STRUCTURE STEPS

SHEET 1 OF 1
840.66

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CONFORMED CONSTRUCTION DOCUMENTS

WHITEVILLE COMMUNITY SPACE

907 S MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

Signed by: [redacted]
NORTH CAROLINA PROFESSIONAL SEAL 056188 ENGINEER SPENSER W. MEEKINS
12/19/2025

SCALE AS SHOWN

INITIAL PLAN DATE: 08/25/2025
REVISIONS:
-
-
-

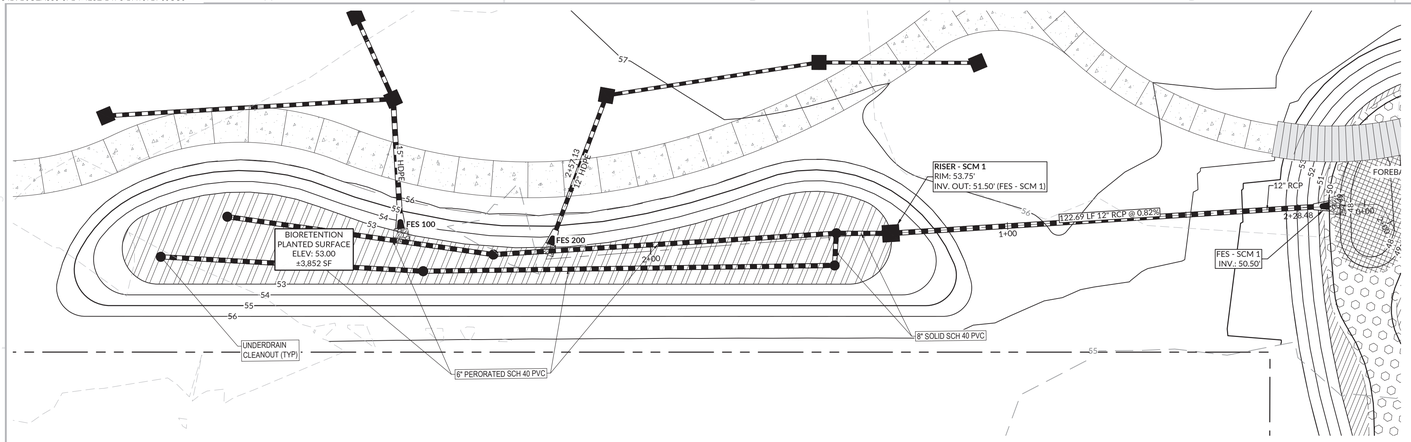
WR JOB NUMBER 23-0695
DRN: JMD DGN: JMD CKD: JAB

STORM DRAINAGE DETAILS

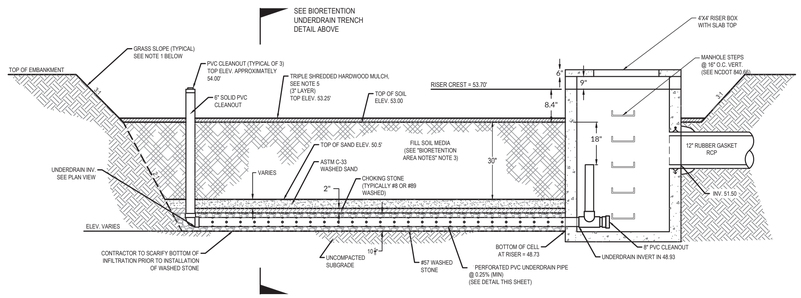
C7.01

J:\23\0695-Whiteville - Design Services for Community Space\CAD\Drawing Sets\Conformed Set\C7.00-STORM DRAINAGE CHARTS.dwg Wednesday, August 6, 2025 2:38:51 PM - JDOLAN

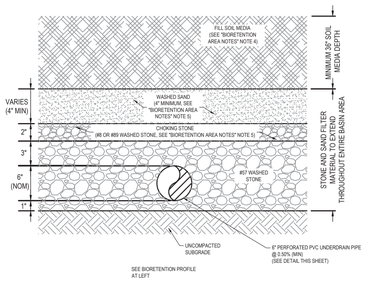
Docusign Envelope ID: B0CEA885-3FB4-428E-B1F8-DA167BF69CC6



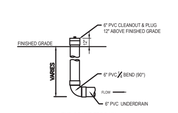
SCM 1 BIORETENTION CELL



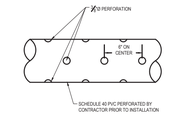
BIORETENTION MEDIA SECTION
NOT TO SCALE



BIORETENTION CROSS-SECTION DETAIL
NOT TO SCALE



BIORETENTION UNDERDRAIN CLEANOUT DETAIL
NOT TO SCALE



PERFORATED PVC UNDERDRAIN DETAIL
NOT TO SCALE

STORMWATER CONTROL MEASURE (SCM) NOTES:

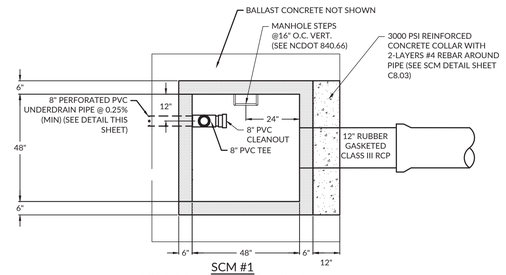
1. PRIOR TO BEGINNING CONSTRUCTION, ANY DISCREPANCIES IN THE PLANS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE DESIGN ENGINEER FOR RESOLUTION.
2. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE (I.E., MINIMUM DESIGN CRITERIA), AND LOCAL STANDARDS AND SPECIFICATIONS HEREBY INCORPORATED BY REFERENCE.
3. CONTRACTOR TO PROVIDE PRECAST CONCRETE MATERIAL SHOP DRAWINGS TO THE DESIGN ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
4. ONCE THE SITE HAS BEEN STABILIZED, CONTRACTOR SHALL OBTAIN APPROVAL BY EROSION CONTROL INSPECTOR IN ORDER TO REMOVE EROSION CONTROL DEVICES.
5. ONCE ALL SEDIMENT AND EROSION CONTROL DEVICES HAVE BEEN REMOVED, THE SCM SHALL BE CONVERTED TO A PERMANENT SCM.
   - ALL SEDIMENT SHALL BE REMOVED AND DISPOSED OF PROPERLY.
   - INTERIOR GRADING AND VEGETATED AREAS SHALL BE CONSTRUCTED PER THIS PLAN.
   - VEGETATED SHELF SHALL BE PLANTED PER PLANT SCHEDULE ON LANDSCAPE PLAN SHEET
   - FINAL CERTIFICATION OF THE SCM BY A PROFESSIONAL ENGINEER IS REQUIRED.

PRECAST CONCRETE MATERIALS NOTES:

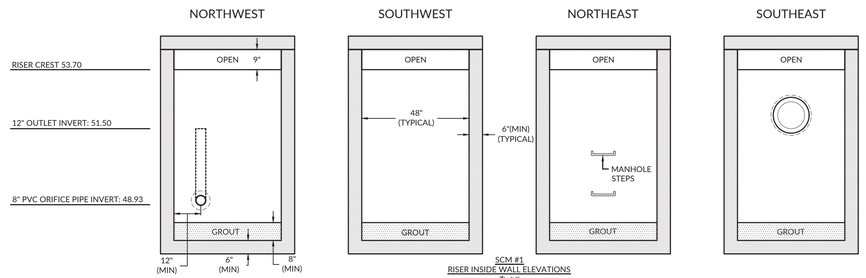
1. ALL PRECAST CONCRETE STRUCTURES SHALL CONFORM TO ASTM C913 (RECTANGULAR) OR C478 (ROUND).
2. ALL REINFORCED CONCRETE PIPE SHALL CONFORM TO ASTM C76, CLASS III (UNLESS OTHERWISE NOTED),
   2.1. O-RING JOINTS SHALL CONFORM TO ASTM C443 & ASTM C361.
   2.2. NON O-RING JOINTS SHALL CONFORM TO ASTM C990.

BIORETENTION AREA NOTES:

1. NO MECHANICAL COMPACTION OR HEAVY EQUIPMENT SHALL BE USED DURING MEDIA OR LANDSCAPING INSTALLATION. ALL CONSTRUCTION TO BE DONE WITH MINIMAL COMPACTION.
2. BOTTOM OF BIORETENTION AREA SHALL BE 2 FEET OR MORE FROM SEASONAL HIGH WATER TABLE. IF DURING CONSTRUCTION SEASONAL HIGH WATER TABLE IS FOUND TO BE WITHIN 2' OF BOTTOM OF BIORETENTION AREA, THEN ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR DESIGN MODIFICATIONS.
3. THE SCM SHALL BE CONVERTED TO A BIORETENTION AREA AND MEDIA ADDED ONLY AFTER THE SITE HAS BEEN STABILIZED.
4. BIORETENTION AREA MEDIA SECTION TO COVER ENTIRE PLANTING SURFACE. BIORETENTION AREA MEDIA TO BE COMPRISED OF THE FOLLOWING:
   - 75% - 85% MEDIUM TO COARSE WASHED SAND (85% PREFERRED).
   - 8% - 10% FINES (CLAY & SILT) (8% PREFERRED).
   - 5% - 10% ORGANIC MATTER (7% PREFERRED)
   - PHOSPHORUS INDEX (P-INDEX) SHALL BE NO GREATER THAN 30.
   - THE MEDIA INFILTRATION RATE SHALL BE MINIMUM 2 IN/HR.
5. THE CHOKING STONE LAYER MAY BE MODIFIED TO USE #78 STONE IN LIEU OF #8 OR #89 STONE. THE CHOKING STONE LAYER SHALL THEN BE COMPRISED OF 3" OF #78 STONE AND THE WASHED SAND LAYER SHALL THEN HAVE A MINIMUM THICKNESS OF 3".
6. CONTRACTOR TO PROVIDE SOIL TEST DATA AND SAMPLES, FROM AN APPROVED TESTING LABORATORY, TO THE ENGINEER PRIOR TO CONSTRUCTION.
7. NO FERTILIZER IS TO BE ADDED.
8. BIORETENTION SHALL BE PLANTED PER LANDSCAPE PLAN ON SHEET L1.1.
9. RECOMMENDED TO USE STALITE BIORETENTION MIX.



SCM #1
RISER DRAWDOWN DEVICE PLAN
1/2" = 1'-0"



SCM #1
RISER INSIDE WALL ELEVATIONS
1/2" = 1'-0"

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BID DOCUMENTS

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DocuSigned by:
Brandon Miller
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4/11/2025

SCALE: 1 inch = 20 ft.

INITIAL PLAN DATE: 04/04/2025
REVISIONS:
-
-
-

WR JOB NUMBER	23-0695	
DRN: JMD	DGN: JMD	CKD: JAB

SCM 1 PLAN & PROFILE

C8.01

J:\23\0695 Whiteville - Design Services for Community Space\CAD\Drawing Set\Construction\C8.00 SCM PLAN AND DETAILS.dwg Friday, April 11, 2025 11:54:03 AM - JABRANTCO

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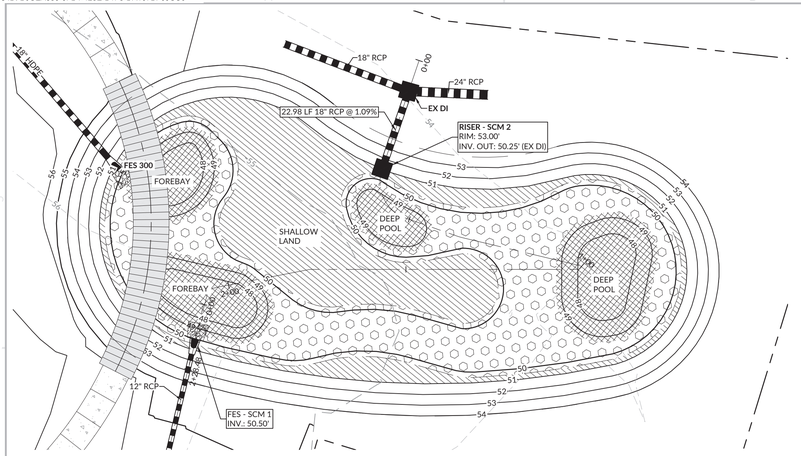
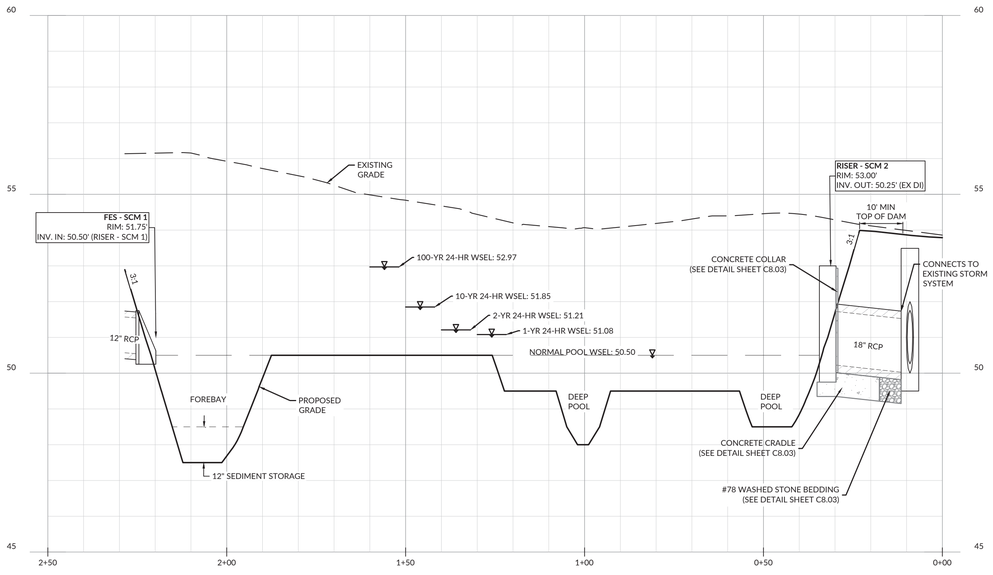
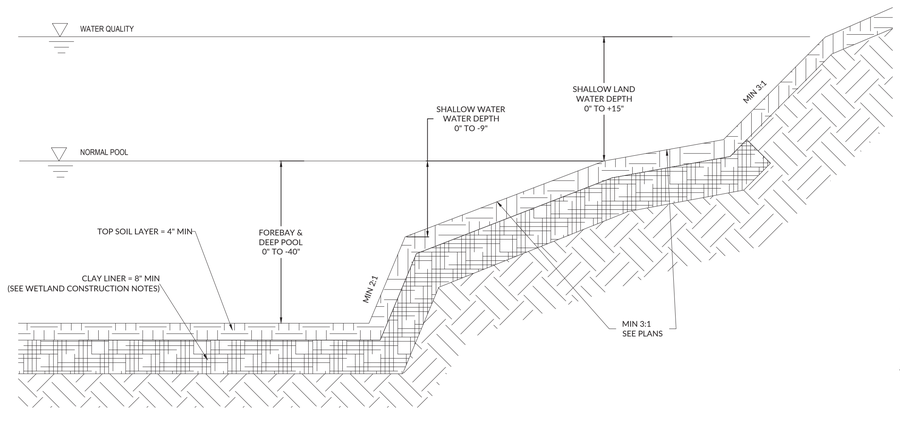


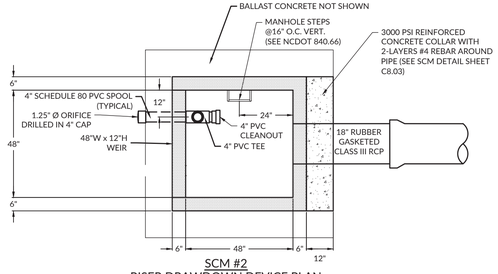
SCM 2 WETLAND



SCM 2 WETLAND PROFILE



WETLAND GRADING



SCM #2
RISER DRAWDOWN DEVICE PLAN
1" = 1'-0"

STORMWATER WETLAND STORMWATER CONTROL MEASURE (SCM) NOTES:

1. ANY DISCREPANCIES IN THE PLANS, DISCOVERED PRIOR TO OR DURING CONSTRUCTION, SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE DESIGN ENGINEER FOR RESOLUTION.
2. ALL CONSTRUCTION AND MINIMUM DESIGN CRITERIA SHALL BE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL STANDARDS AND SPECIFICATIONS, WHICH ARE HEREBY INCORPORATED BY REFERENCE.
3. UPON COMPLETION OF CONSTRUCTION, CERTIFICATION OF SCM BY THE GEOTECHNICAL ENGINEER WILL BE REQUIRED PRIOR TO FINAL SCM ACCEPTANCE.
4. THE GEOTECHNICAL ENGINEER SHALL EVALUATE SOILS FOR SUITABILITY OF DAM CONSTRUCTION AND SLOPE STABILITY.
5. PRIOR TO PLACEMENT OF EMBANKMENT FILL, THE GEOTECHNICAL ENGINEER SHALL SUPERVISE THE FOUNDATION PREPARATION AND APPROVE THE DEPTH AND EXTENT OF THE CUTOFF TRENCH, A MINIMUM OF 1 FOOT SHALL BE EXCAVATED.
6. THE DAM AND FOREBAY BERMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS UNLESS SUPERCEDED BY THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
   - BORROW MATERIALS FOR USE AS EMBANKMENT FILL SHALL BE FREE OF ORGANICS, ROOTS AND OTHER WOODY VEGETATION OR ORGANIC DEBRIS.
   - FILL MATERIALS SHALL CONSIST OF SOILS WHICH CLASSIFY AS SC, SM, CL, CL-CH AND ML IN ACCORDANCE WITH THE UNIFIED CLASSIFICATION SYSTEM OR AS APPROVED BY THE GEOTECHNICAL ENGINEER.
   - FILL MATERIALS SHALL HAVE A MAXIMUM PARTICLE SIZE OF 3 INCHES IN MEAN DIAMETER.
   - FILL SHALL BE PLACED IN 8 INCH (MAXIMUM) LOOSE LIFTS FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT AND IN 4 INCH (MAXIMUM) LOOSE LIFTS FOR MATERIAL COMPACTED BY HAND OPERATED TAMPERS UNDER THE SUPERVISION OF THE GEOTECHNICAL ENGINEER OR THEIR REPRESENTATIVE. FILL SHALL BE BROUGHT UP BY BENCHING INTO THE EXISTING SLOPE. A MAXIMUM HEIGHT OF 2 FEET SHALL BE USED FOR EACH BENCH LIFT TAKING CARE TO REMOVE ROOT STRUCTURES AS THE FILL PROCEEDS. THE SURFACE OF EACH LIFT SHALL BE SCARIFIED PRIOR TO PLACEMENT OF THE NEXT LIFT IN ORDER TO EFFECTIVELY TIE THE FILL LIFTS TOGETHER.
   - ALL COMPACTION SHALL BE TESTED BY THE NUCLEAR METHOD (ASTM D-6938) OR SAND CONE METHOD (ASTM D-1556) AT A RATE OF AT LEAST ONE TEST PER 5,000 SF PER ONE FOOT OF COMPACTED FILL THICKNESS IN GENERAL AREA FILLS AND ONE TEST PER 50 LINEAL FEET PER LIFT ALONG THE BARREL.
   - THE MINIMUM COMPACTION SHALL BE A MINIMUM OF 95% OF THE MAXIMUM STANDARD PROCTOR DENSITY (ASTM D-698) AT MOISTURE CONTENTS VARYING FROM 2 PERCENT BELOW TO 3 PERCENT ABOVE OPTIMUM MOISTURE CONTENT DETERMINED BY STANDARD PROCTOR TEST.
7. SUBGRADE FOR THE RISER STRUCTURE AND OUTLET PIPE SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT. IF THE GEOTECHNICAL ENGINEER REQUIRES ADDITIONAL SUBGRADE PREPARATION, THE ADDITIONAL COST SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT.
8. IF NO FILTER DIAPHRAGM THE OUTLET PIPE SHALL BE BEDDED IN CONCRETE FOR 2/3 OF THE PIPE LENGTH, BEGINNING AT THE RISER, AND IN #78 STONE FOR 1/3 OF PIPE LENGTH TO THE OUTLET. SEE DETAILS ON SHEET C8.03
9. EMBANKMENT AND SIDE SLOPES OF THE BASIN SHALL BE STABILIZED PER SEEDING SCHEDULE ON EROSION CONTROL DETAILS SHEET OR SODDED. SEE LANDSCAPE PLAN ON SHEETS L1.01 AND L2.00 FOR FURTHER PLANTING DETAILS.
10. IF THE SCM IS TO BE USED AS AN EROSION CONTROL MEASURE, THE FOREBAY BERM(S) SHALL NOT BE INSTALLED DURING THE INITIAL CONSTRUCTION OR WHILE THE SCM IS USED AS AN EROSION CONTROL MEASURE.
11. UNLESS OTHERWISE NOTED, ALL PERMANENT STRUCTURES (e.g. RISER/BARREL, WEIR WALLS, ETC.) ARE TO BE INSTALLED WITH THE INITIAL DAM CONSTRUCTION.
12. FOR SITE BUILT FEATURES (e.g. WEIR WALLS, DROP STRUCTURES, BRIDGES, ETC.), THE CONTRACTOR SHALL PROVIDE STRUCTURAL DRAWINGS TO BE SIGNED AND SEALED BY A NC PROFESSIONAL ENGINEER TO THE DESIGN ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
13. PRIOR TO FINAL GRADING OF THE SCM, THE CONTRACTOR SHALL PROVIDE SUFFICIENT AS-BUILT SURVEY INFORMATION TO CONFIRM THAT THE FINISHED SCM WILL MEET THE SPECIFIC DIMENSIONAL REQUIREMENTS APPLICABLE TO THE SCM. THOSE REQUIREMENTS INCLUDE:
   - FOREBAY & DEEP POOL BOTTOM ELEVATION = 47.50 FT
   - DRAWDOWN OVERFLOW ELEVATION (NORMAL POOL) = 50.50 FT
   - MINIMUM SURFACE AREA AT NORMAL POOL ELEVATION (50.50) = 7,772 SF
   - WEIR CREST ELEVATION= 51.00 FT
   - RISER CREST ELEVATION= 53.00 FT
   - MINIMUM SURFACE AREA AT WATER QUALITY ELEVATION (51.00) = 9,353 SF
   - LOW POINT TOP OF EMBANKMENT (AUXILIARY SPILLWAY) = XXX.XX FT
   - AVERAGE TOP OF EMBANKMENT = 54.00 FT
15. ELEVATIONS SHALL BE WITHIN 0.1 FEET OF THE ABOVE ELEVATIONS FOR EARTHWORK, AND 0.05 FEET FOR OUTLET STRUCTURE. ALL SURFACE AREAS ARE THE MINIMUMS AREAS. REQUEST FOR A REDUCTIONS IN THE MINIMUM VALUES WILL BE CONSIDERED ON A CASE BY CASE BASIS.
16. ONCE THE PROJECT SITE HAS BEEN STABILIZED, CONTRACTOR SHALL OBTAIN APPROVAL BY EROSION CONTROL INSPECTOR IN ORDER TO REMOVE TEMPORARY EROSION CONTROL DEVICES.
   - ONCE ALL SEDIMENT AND EROSION CONTROL DEVICES HAVE BEEN REMOVED, THE SCM SHALL BE CONVERTED TO A PERMANENT SCM.
   - ALL SEDIMENT SHALL BE REMOVED AND DISPOSED OF PROPERLY.
   - FOREBAY BERM AND VEGETATED SHELF SHALL BE CONSTRUCTED AS SHOWN ON THE PLAN.
   - VEGETATED SHELF SHALL BE PLANTED PER PLANT SCHEDULE ON LANDSCAPE PLAN (SEE SHEET L2.00).
17. FINAL CERTIFICATION OF THE SCM BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF WHICH THE PROJECT IS LOCATED IS REQUIRED.

CLAY LINER SPECIFICATIONS:

THE CONTRACTOR SHALL INSTALL A CLAY LINER TO MAINTAIN A PERMANENT POOL AT THE DESIGN ELEVATION. AT A MINIMUM, THE CLAY LINER MATERIAL FOR THE WETLAND SHALL MEET THE FOLLOWING SPECIFICATIONS:

- UNIFIED SOIL CLASSIFICATION SYSTEM DESIGNATION OF CL, CH, ML, OR SC
- MINIMUM OF 40% PASSING #200 SIEVE
- MINIMUM PLASTICITY INDEX OF 12
- MAXIMUM PERMEABILITY OF 1 X 10^{-5} cm/sec
- A MINIMUM OF 2 TESTS OF EACH ABOVE PARAMETER SHALL BE PROVIDED FROM AN APPROVED LABORATORY ON THE LINER MATERIAL AND PRESENTED TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF THE MATERIAL.
- COMPACTION TO A MINIMUM OF 95% OF THE MAXIMUM STANDARD PROCTOR DENSITY (ASTM D-698), AND WITHIN 3% OF THE OPTIMUM MOISTURE CONTENT (MINIMUM OF 1 COMPACTION DENSITY TEST PER 2500 SQ. FT.).
- AN IN-PLACE MAXIMUM INFILTRATION RATE OF 0.01 INCHES PER HOUR.
- RECOMMENDATIONS OF THE SITE GEOTECHNICAL ENGINEER MAY SUPERCEDE THE ABOVE SPECIFICATIONS.

THE CLAY LINER SHALL BE PLACED UNDER THE BOTTOM OF THE SCM PERMANENT POOL TO A MINIMUM THICKNESS OF 8 INCHES. A MINIMUM OF 4 INCHES OF TOPSOIL SHALL BE PLACED ABOVE THE CLAY LINER TO THE FINISHED GRADE AS SHOWN ON THE DRAWINGS AND/OR DETAILS. CARE SHALL BE TAKEN WHEN PLACING THE TOPSOIL SO AS NOT TO DAMAGE THE CLAY LINER. A CLAY/SOIL, NO ORGANICS, MIXTURE MAY BE USED AS LINER IF THE ABOVE SPECIFICATIONS ARE SATISFIED AND WITH WRITTEN APPROVAL BY THE GEOTECHNICAL ENGINEER.

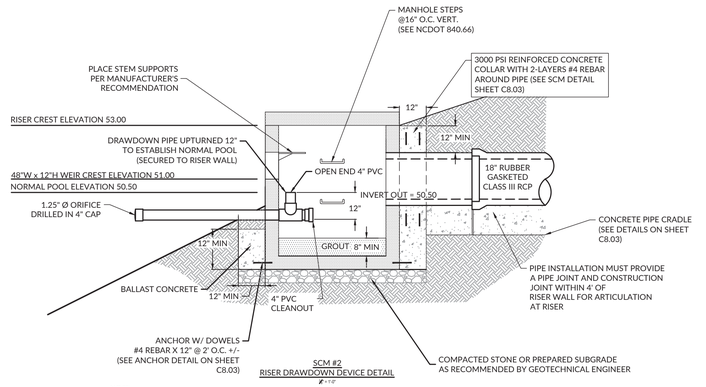
THE REQUIREMENT FOR A CLAY LINER CAN BE WAIVED IF ONE OF THE FOLLOWING IS PROVIDED TO THE ENGINEER FOR REVIEW AND APPROVAL:

1. A SIGNED/SEALED GEOTECHNICAL REPORT INDICATING THAT THE INSITU SOILS MEET THE MINIMUM SPECIFICATIONS DESCRIBED ABOVE FOR THE CLAY LINER OR
2. AN INFILTRATION TEST IS CONDUCTED AT POND BOTTOM FINISHED GRADE ILLUSTRATING THAT INSITU SOILS MEET THE ABOVE PERMEABILITY REQUIREMENT.

IF THE CLAY LINER IS NOT INSTALLED, THE OWNER SHALL RECEIVE A CREDIT FOR THE DELETION OF THE LINER.

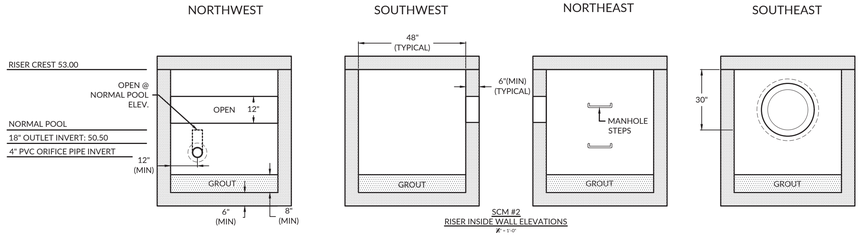
PRECAST CONCRETE MATERIALS NOTES:

1. ALL PRECAST CONCRETE STRUCTURES SHALL CONFORM TO ASTM C913 (RECTANGULAR) OR C478 (ROUND).
2. ALL REINFORCED CONCRETE PIPE SHALL CONFORM TO ASTM C76, CLASS III (UNLESS OTHERWISE NOTED).
   - 2.1. RGRCP JOINTS SHALL CONFORM TO ASTM C443 & ASTM C361.
   - 2.2. RCP JOINTS SHALL CONFORM TO ASTM C990



SCM #2
RISER DRAWDOWN DEVICE DETAIL
1" = 1'-0"

NOTE:
RISER AND BALLAST CONCRETE HAVE BEEN SIZED BASED ON BUOYANCY CALCULATIONS. ADJUSTMENTS TO CONCRETE DIMENSIONS ARE NOT PERMITTED WITHOUT PRIOR WRITTEN APPROVAL. ANY DIMENSIONAL CHANGES TO BALLAST CONCRETE BASE AND RISER MUST BE REQUESTED IN WRITING AND MUST BE ACCOMPANIED BY BUOYANCY CALCULATIONS SIGNED AND SEALED BY A NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER.



SCM #2
RISER INSIDE WALL ELEVATIONS
1" = 1'-0"

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CONFORMED CONSTRUCTION DOCUMENTS

WHITEVILLE COMMUNITY SPACE

907 S MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL — Docusigned by: Brandon Miller — BRANDON J. MILLER

4/11/2025

SCALE: 1 inch = 20 ft. H
1 inch = 2 ft. V

INITIAL PLAN DATE: 04/04/2025
REVISIONS:
-
-
-

WR JOB NUMBER 23-0695
DRN: JMD DGN: JMD CKD: JAB

SCM 2 PLAN & PROFILE

C8.02

J:\23\0695 Whiteville - Design Services for Community Space\CAD\Drawing Set\Construction\C8.00 SCM PLAN AND DETAILS.dwg - Foley, April 11, 2025 11:54:08 AM - JKOBAYKO

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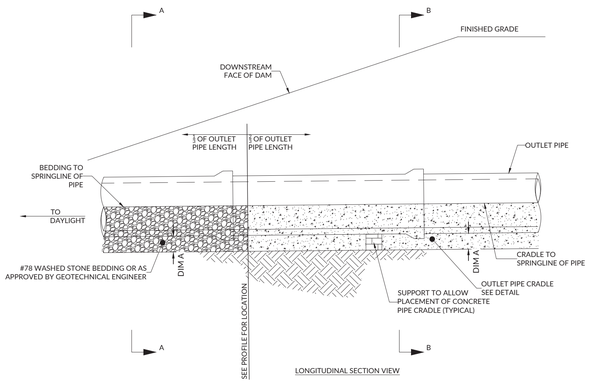
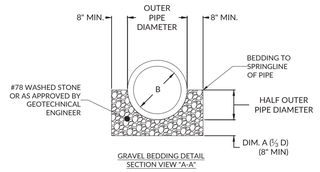
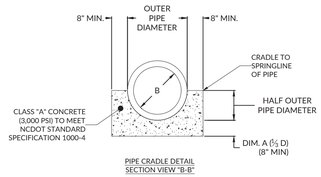


LONGITUDINAL SECTION VIEW



GRAVEL BEDDING DETAIL
SECTION VIEW "A-A"



PIPE CRADLE DETAIL
SECTION VIEW "B-B"

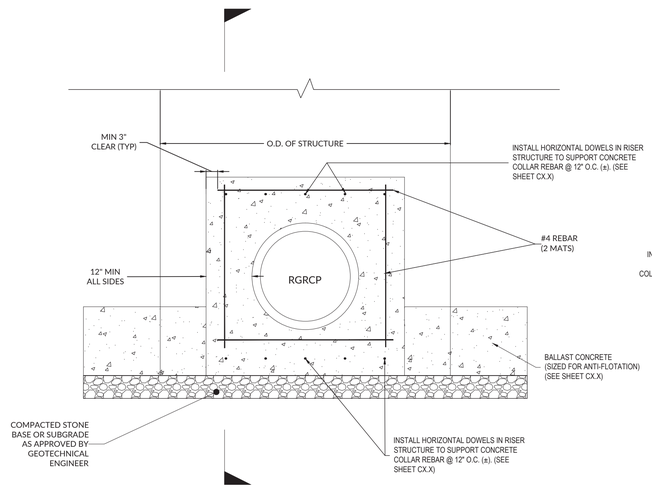
NOTE:
IF PIPE IS INSTALLED IN EXCAVATED TRENCH, THEN SIDE WALLS MAY CONFORM TO TRENCH (TRENCH MAY BE USED AS CRADLE FORM)

NOMINAL PIPE SIZE	DIM A* (½ D)	DIM B (PIPE ID)	DIM C (DIM A + 12")	SCM #
18	8	18	20	
24	8	24	20	
30	10	30	22	
36	12	36	24	
42	14	42	26	
48	16	48	28	

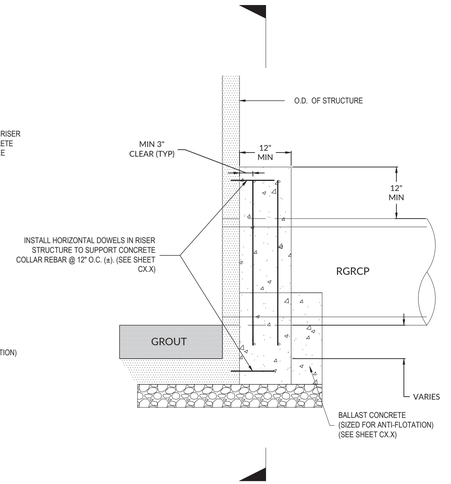
ALL DIMENSIONS IN INCHES
DIM A = 8" MINIMUM
18" MINIMUM PIPE DIAMETER

OUTLET PIPE, CONCRETE CRADLE, AND STONE BEDDING
Scale:NTS

DRAINAGE MISC
C8006



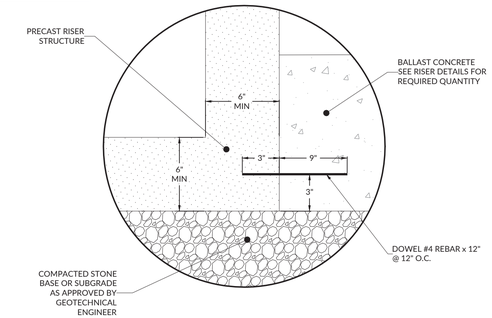
CROSS-SECTION VIEW



LONGITUDINAL SECTION VIEW

CONCRETE PIPE COLLAR
Scale:NTS

DRAINAGE MISC
C8004



ANCHOR DETAIL
Scale:NTS

DRAINAGE MISC
C8002

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CONFORMED CONSTRUCTION DOCUMENTS

WHITEVILLE COMMUNITY SPACE

907 S MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

NORTH CAROLINA PROFESSIONAL ENGINEER
DocuSigned by:
Brandon Miller
SEBBDC9CBF8C40C...
BRANDON J. MILLER
4/11/2025

SCALE AS SHOWN

INITIAL PLAN DATE: 04/04/2025
REVISIONS:
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-
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WR JOB NUMBER 23-0695
DRN: JMD DGN: JMD CKD: JAB

SCM DETAILS

C8.03

J:\2023\695-Whiteville - Design Services for Community Space\CAD\Drawing Sets\Construction\C8.00-SCM PLAN AND DETAILS.dwg, Friday, April 11, 2025 11:54:10 AM, JADAM.TCO

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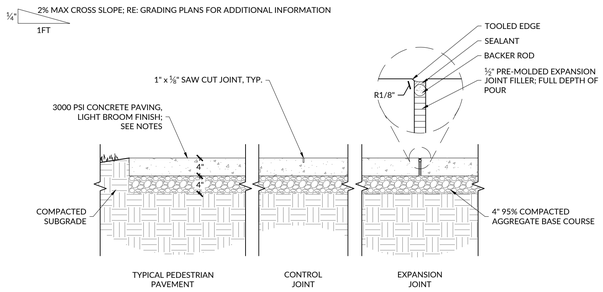
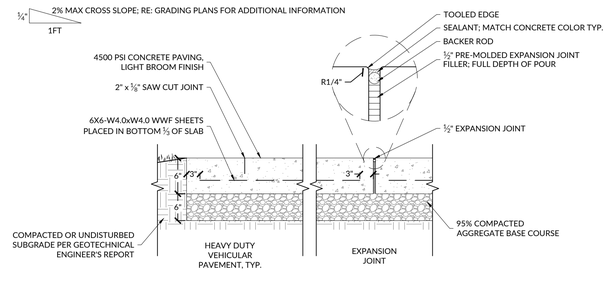


NOTES:

1. PROVIDE EXPANSION JOINT WHERE WALKS ARE POURED AGAINST VERTICAL SURFACES AND/OR DIFFERENT PAVING MATERIALS & AS SPECIFIED ON PLANS OR 25'-0" MAX O.C.
2. PROVIDE CONTRACTION JOINT AT 5' INTERVALS UNLESS OTHERWISE SPECIFIED (SEE PLAN).
3. CONTRACTOR TO PROVIDE MOCK-UP OF CONCRETE FINISH, COLOR, AND SCORING FOR OWNERS APPROVAL MOCK-UP CAN BE USED AS PART OF FINAL PROJECT.

01 LIGHT DUTY CONCRETE PAVING — SECTION

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

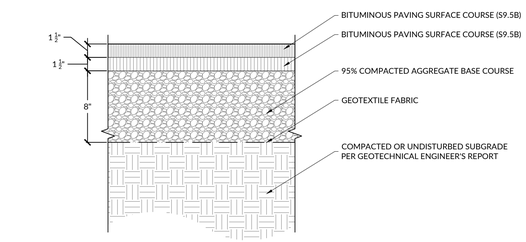


NOTES:

1. CONTRACTOR TO PROVIDE MOCK-UP OF CONCRETE PAVEMENT FINISH, COLOR, & SCORING FOR OWNER'S APPROVAL. MOCK-UP CAN BE USED AS PART OF FINAL PROJECT.
2. ROVIDE EXPANSION JOINT WHERE SLAB MEETS VERTICAL SURFACES AND/OR DIFFERENT PAVING MATERIALS & AS SPECIFIED ON PLANS.
3. PROVIDE ½" EXPANSION JOINTS AT 16' INTERVALS MIN., TYP.
4. SAW CUT (CONTROL JOINTS AT 4' INTERVALS OR AS SHOWN ON PLANS.

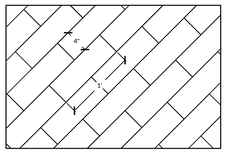
02 HEAVY DUTY CONCRETE PAVING — SECTION

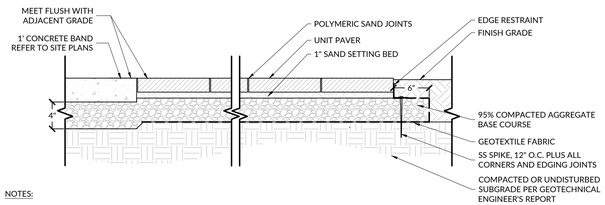
SCALE: 3/4" = 1'-0"



03 HEAVY DUTY ASPHALT PAVING — SECTION

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



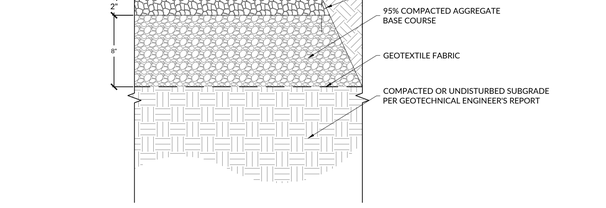


NOTES:

1. UNIT PAVER BASIS OF DESIGN IS LIGHT-DUTY COMMERCIAL-GRADE CONCRETE PAVERS (2 1/4" THICK).
2. UNIT PAVERS ARE TO BE LAID IN RUNNING BOND PATTERN ALIGNED WITH ARCHITECTURAL ROOFLINE ANGLE.
3. UNIT PAVERS ARE TO BE MEET FLUSH WITH ADJACENT PAVING & CONCRETE BAND, WHERE APPLICABLE.
4. POLYMERIC JOINTING SAND IS TO MATCH PAVERS.
5. PAVER DESIGN: SAND (65%) & BEIGE (35%) COLOR MIX WITH TUMBLED FINISH. PAVER SIZE 4" X 12".
6. PREFERRED BRANDS: HANOVER, AND UNILOCK.

04 LIGHT DUTY PEDESTRIAN UNIT PAVERS — SECTION

SCALE: 1" = 1'-0"

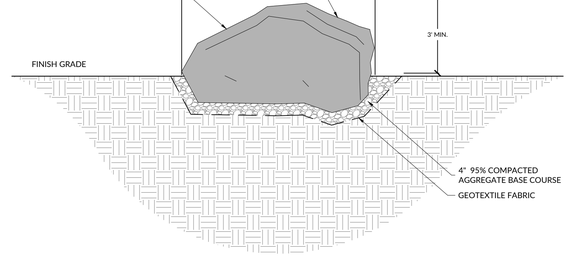


NOTES:

1. CRUSHED STONE BASIS OF DESIGN: #78 STONE SLATE CHIPS FROM TRIANGLE LANDSCAPE SUPPLIES, OR APPROVED EQUAL.

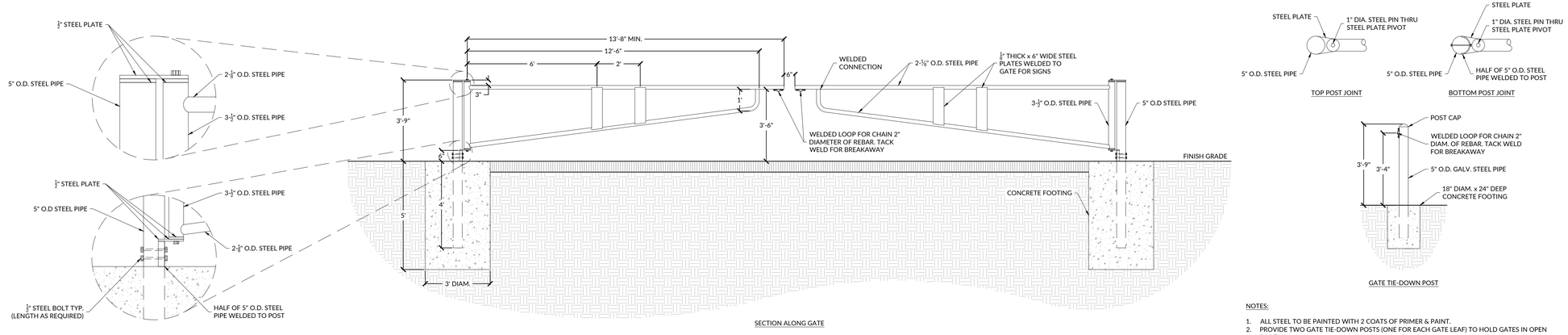
05 HEAVY DUTY ABC SURFACE — SECTION

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



06 BOULDER — SECTION

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



SECTION ALONG GATE

GATE TIE-DOWN POST

NOTES:

1. ALL STEEL TO BE PAINTED WITH 2 COATS OF PRIMER & PAINT.
2. PROVIDE TWO GATE TIE-DOWN POSTS (ONE FOR EACH GATE LEAF) TO HOLD GATES IN OPEN POSITION.

07 METAL VEHICULAR SWING GATE — SECTION

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

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CITY OF WHITEVILLE, N.C. EST. 1983

CONFORMED CONSTRUCTION DOCUMENTS

WHITEVILLE COMMUNITY SPACE

907 S MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

Signed by: JONATHAN A. BLASCO — NORTH CAROLINA LANDSCAPE ARCHITECT — 2069

12/18/2025

SCALE AS SHOWN

INITIAL PLAN DATE: 08/25/2025
REVISIONS:
-
-
-

WR JOB NUMBER 23-0695
DRN: JMD DGN: JMD CKD: JAB

SITE DETAILS

C9.00

J:\23\0695-Whiteville - Design Services for Community Space\CAD\Drawing Sets\Conformed Set\C9.00 - SITE DETAILS.dwg, Wednesday, August 6, 2025 2:40:11 PM - JDOLAN

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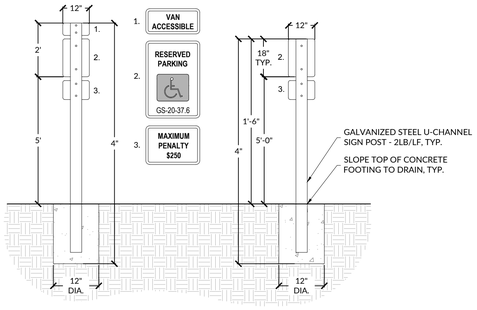
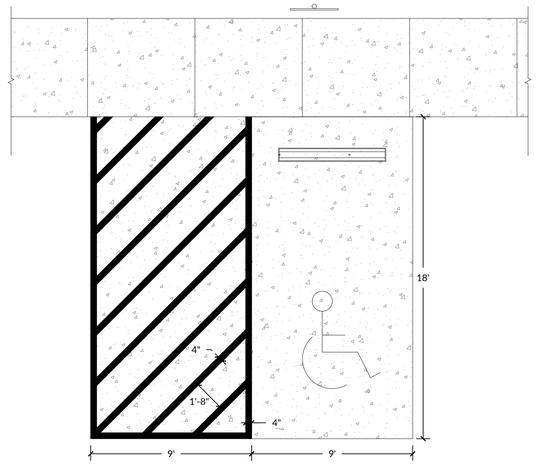
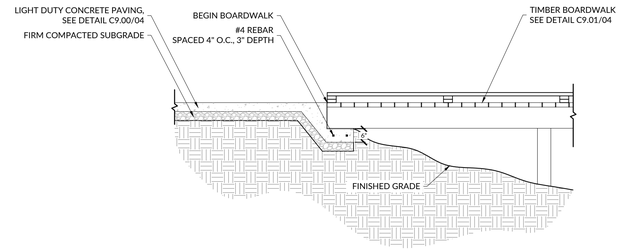


NOTE:
1. THE RESERVED PARKING SIGN IS TO BE 5'-0" IF THE PEDESTRIAN PATH DOES NOT PASS UNDER OR AROUND SIGN.
2. THE RESERVED PARKING SIGN IS TO BE 7'-0" IF THE PEDESTRIAN PATH GOES BY, UNDER, OR AROUND THE SIGN.

01 ADA PARKING SIGNAGE — SECTION
SCALE: 3/8" = 1'-0"

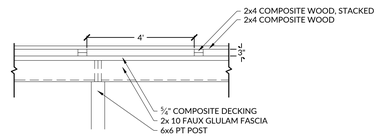


02 ADA STRIPING — SECTION
SCALE: 1/4" = 1'-0"

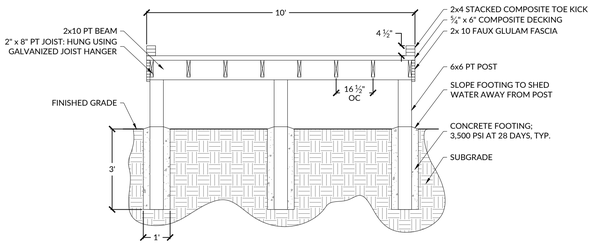


NOTE:
1. BOARDWALK FOUNDATION, BACKWALL, AND STRINGERS NOT SHOWN FOR CLARITY. SEE DETAIL C9.01/04.
2. BOARDWALK APPROACH SLAB TO MATCH APPROACH PATH WIDTH AND CROSS SLOPE AS REQUIRED BY DESIGN.
3. APPROACH SLAB REQUIRED ON BOTH ENDS OF BOARDWALK.

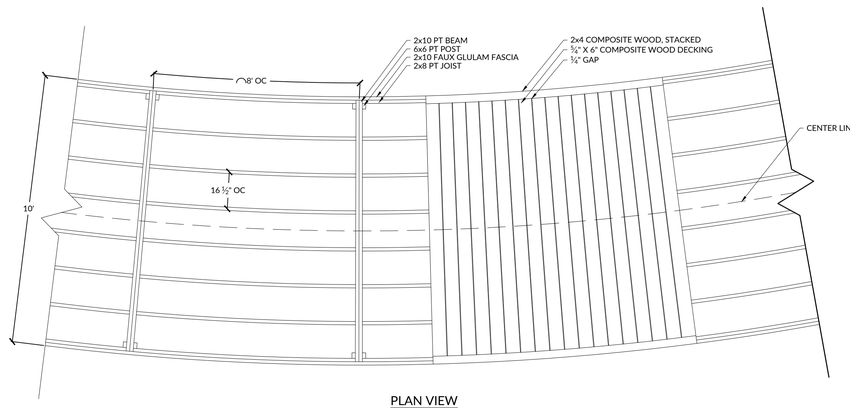
03 CONCRETE BOARDWALK APPROACH — SECTION
SCALE: 3/8" = 1'-0"



ELEVATION VIEW



SECTION VIEW

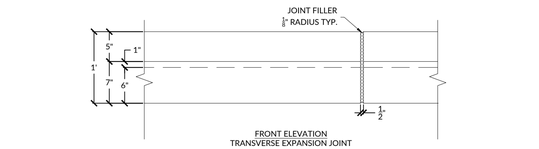


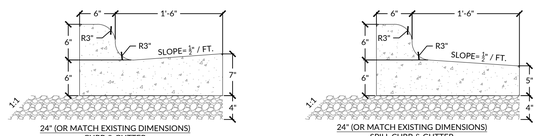
PLAN VIEW

NOTES:

1. TIMBER DECKING CROSS SLOPE SHALL MATCH CROSS SLOPE OF PATH ON BOTH APPROACHES TO FACILITATE POSITIVE DRAINAGE AND PREVENT FLOODING.
2. SPAN LENGTHS, JOIST SPACING, SIZING OF MEMBERS, WOOD DECK, AND OTHER DESIGN SPECIFICS SHALL BE DETERMINED BY THE CONTRACTOR'S STRUCTURAL ENGINEER ON A PROJECT SPECIFIC BASIS.
3. FOUNDATION SHALL CONSIST OF DRIVEN PILES, AUGURED PILES, HELICAL PIERS, OR OTHER APPLIED FOUNDATION SYSTEM. SPECIFICS SUCH AS NUMBER OF PILES, SPACING, AND HEIGHT SHALL BE DETERMINED BY THE CONTRACTOR'S STRUCTURAL ENGINEER ON A PROJECT SPECIFIC BASIS BASED ON REQUIRED LOADING. TIMBER PILES ARE SHOWN IN THIS DETAIL AS AN EXAMPLE.
4. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL BY OWNER/ENGINEER PRIOR TO INSTALLATION.

04 TIMBER BOARDWALK
SCALE: 3/8" = 1'-0"





NOTES:

1. PROVIDE 10' MAXIMUM BETWEEN CONTROL JOINTS. 15' MAXIMUM BETWEEN DUMMY JOINTS ON MACHINE POURS.
2. ½" EXPANSION JOINT EVERY 50 FEET.
3. 3,000 PSI CONCRETE MINIMUM, 4" SLUMP MAXIMUM.
4. LIQUID MEMBRANE CURBING COMPOUND SHALL MEET THE REQUIREMENTS OF SECTION 1026-2 OF NCDOT STANDARDS & SPECIFICATIONS FOR ROADS & STRUCTURES.
5. ALL CONSTRUCTION JOINTS SHALL BE FILLED WITH JOINT FILLER & SEALER IN ACCORDANCE WITH NCDOT ROADWAY STANDARD DETAIL 846.01. THE JOINT MATERIAL SHALL CONFORM TO SECTION 1028-2 OF NCDOT STANDARDS & SPECIFICATIONS FOR ROADS & STRUCTURES.
6. REFER TO NCDOT DETAIL 845.01 FOR CURB & GUTTER SUPERELEVATION RATES.

05 CURB AND GUTTER — SECTION
SCALE: 1" = 1'-0"

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CONFORMED CONSTRUCTION DOCUMENTS

WHITEVILLE COMMUNITY SPACE

907 S MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT JONATHANA. BLASCO 2069
Signed by: [illegible]
12/18/2025

SCALE AS SHOWN

INITIAL PLAN DATE: 08/25/2025
REVISIONS:
-
-
-

WR JOB NUMBER	23-0695
DRN: JMD	DGN: JMD CKD: JAB

SITE DETAILS

C9.01

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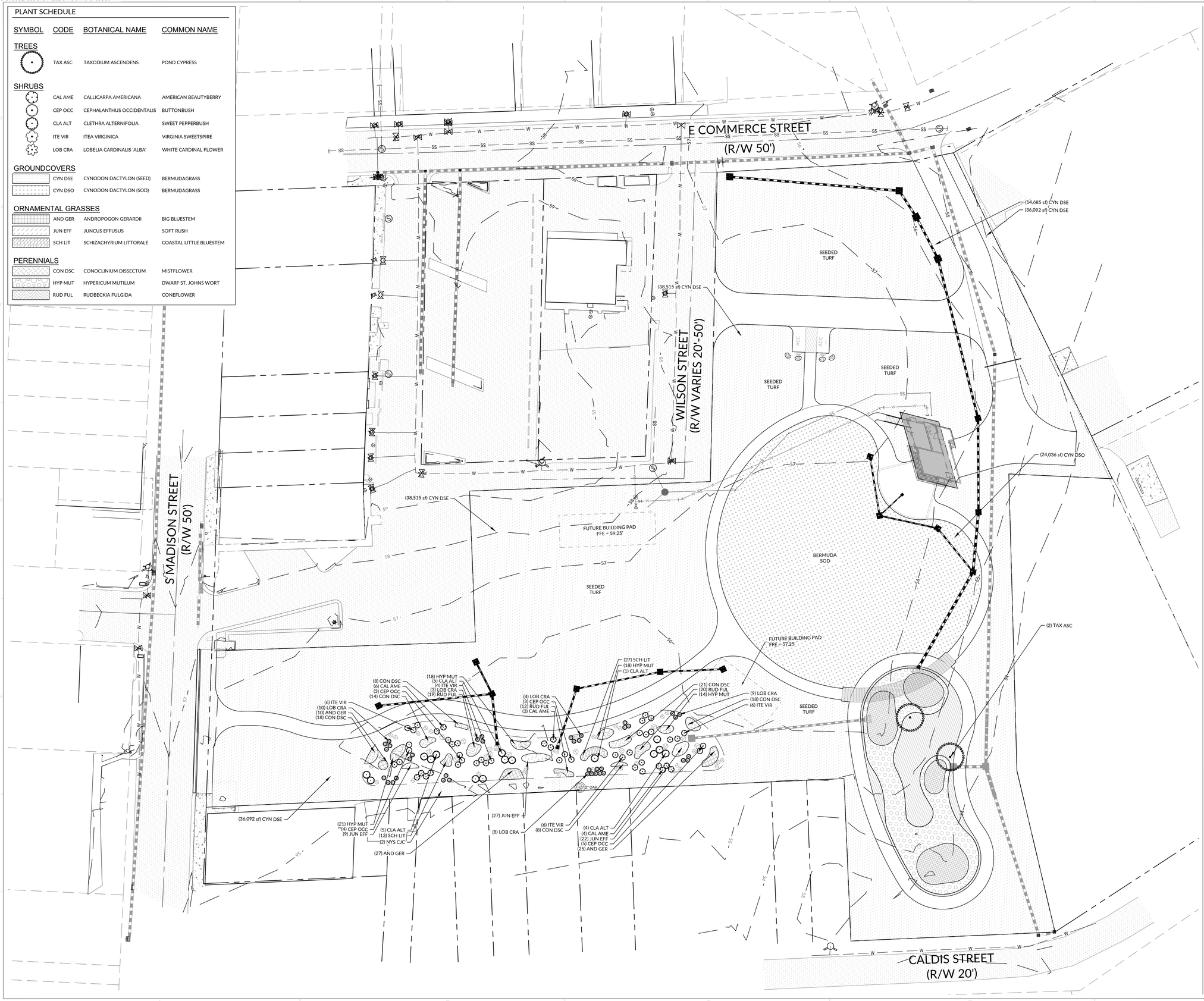
PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL NAME	COMMON NAME
TREES			
	TAX ASC	TAXODIUM ASCENDENS	POND CYPRESS
SHRUBS			
	CAL AME	CALLICARPA AMERICANA	AMERICAN BEAUTYBERRY
	CEP OCC	CEPHALANTHUS OCCIDENTALIS	BUTTONBUSH
	CLA ALT	CLETHRA ALTERNIFOLIA	SWEET PEPPERBUSH
	ITE VIR	ITEA VIRGINICA	VIRGINIA SWEETSPIRE
	LOB CRA	LOBELIA CARDINALIS 'ALBA'	WHITE CARDINAL FLOWER
GROUNDCOVERS			
	CYN DSE	CYNODON DACTYLON (SEED)	BERMUDAGRASS
	CYN DSO	CYNODON DACTYLON (SOD)	BERMUDAGRASS
ORNAMENTAL GRASSES			
	AND GER	ANDROPOGON GERARDII	BIG BLUESTEM
	JUN EFF	JUNCUS EFFUSUS	SOFT RUSH
	SCH LIT	SCHIZACHYRIUM LITTORALE	COASTAL LITTLE BLUESTEM
PERENNIALS			
	CON DSC	CONOCLINIUM DISSECTUM	MISTFLOWER
	HYP MUT	HYPERICUM MUTILUM	DWARF ST. JOHNS WORT
	RUD FUL	RUDBECKIA FULGIDA	CONEFLOWER



LANSCAPE NOTES:

1. THE CONTRACTOR SHALL TAKE PROPER PRECAUTIONS NOT TO DAMAGE EXISTING PLANTS, FACILITIES AND STRUCTURES THAT ARE TO REMAIN. THE CONTRACTOR SHALL RESTORE DISTURBED AREAS TO THEIR ORIGINAL CONDITION TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT AND OWNER.
2. UTILITIES SHOWN ON THE LANDSCAPE DRAWINGS ARE FOR REFERENCE ONLY. SEE UTILITY DRAWINGS FOR EXISTING AND PROPOSED UTILITY LOCATIONS. SEE UTILITY NOTES FOR ADDITIONAL INFORMATION.
3. NO CHANGES TO ANY ASPECT OF APPROVED PLAN, INCLUDING BUT NOT LIMITED TO LANDSCAPING, GRADING, BUILDING ELEVATIONS, LIGHTING, OR UTILITIES SHALL BE MADE WITHOUT THE APPROVAL OF THE GOVERNING MUNICIPALITY, ENGINEER, LANDSCAPE ARCHITECT AND OWNER.
4. ALL PLANTS PROVIDED BY THE CONTRACTOR SHALL MEET OR SURPASS THE SPECIFICATIONS GIVEN IN THE PLANT TABLE AND CONFORM TO THE AMERICAN STANDARD OF NURSERY STOCK, ANSI Z601-1973 IN REGARD TO SIZING, GROWING AND BALLED AND BURLAPPED (B&B) SPECIFICATIONS. PLANTS SHALL BE FULL AND HEAVY, AND IN HEALTHY CONDITION AT THE TIME OF PLANTING. LANDSCAPE ARCHITECT SHALL REJECT ANY PLANT NOT MEETING THESE GUIDELINES AND REQUIRE REPLACEMENT.
5. ALL PLANTS ARE TO BE FULLY WARRANTED (INCLUDING LABOR AND MATERIALS) FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM FINAL ACCEPTANCE.
6. PLANTING SHALL BE INSTALLED DURING THE IDEAL SEASON BASED ON THE TYPE OF PLANT.
7. ALL PLANTS THAT ARE UNABLE TO BE IMMEDIATELY PLANTED SHALL BE STORED IN A PROTECTED AREA OUT OF DIRECT SUN AND WIND. PLANTS SHALL BE EVENLY AND CONSISTENTLY WATERED, AS NEEDED, TO PREVENT DRYING OF ROOTS. ROOT BALLS OF B&B STOCK SHALL BE COVERED WITH AT LEAST 4 INCHES OF HARDWOOD MULCH TO MAINTAIN MOISTURE IN ROOTS.
8. THE CONTRACTOR SHALL VERIFY ALL PLANT QUANTITIES SHOWN ON PLANS AND CLARIFY ANY DISCREPANCIES WITH LANDSCAPE WIND.
9. PLANTS SHALL BE EVENLY AND CONSISTENTLY WATERED, AS NEEDED, TO PREVENT DRYING OF ROOTS. ROOT BALLS OF B&B STOCK SHALL BE COVERED WITH AT LEAST 4 INCHES OF HARDWOOD MULCH TO MAINTAIN MOISTURE IN ROOTS.
10. LANDSCAPE ARCHITECT SHALL BE NOTIFIED IN WRITING OF ANY PROPOSED PLANT SUBSTITUTIONS BY THE CONTRACTOR. NO SUBSTITUTIONS SHALL BE MADE UNDER ANY CIRCUMSTANCES WITHOUT PRIOR APPROVAL BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE.
11. ALL PLANTS AND PLANTING BEDS ARE TO BE LOCATED BY SCALED DIMENSIONS FROM BUILDINGS, CURBS, PAVEMENTS, ETC. SPECIFIC ATTENTION SHALL BE GIVEN TO ENSURE THAT PLANTS INDIVIDUALLY SHOWN ON THE PLAN ARE ACCURATELY LOCATED. LOCATION OF ALL PLANTS SHALL BE REVIEWED IN THE FIELD BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. CONTRACTOR SHALL PROVIDE 48 HOURS FOR REVIEW.
12. A PRE-EMERGENT HERBICIDE SHALL BE APPLIED TO ALL NEW PLANTING BEDS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND ALLOWED TO DISSIPATE PRIOR TO INSTALLATION OF ANY PLANT MATERIAL.
13. ALL LANDSCAPE AREAS ARE TO BE GRADED FOR POSITIVE DRAINAGE AND TO ENSURE NO STANDING WATER. SEE GRADING PLAN FOR SPECIFIC GRADING INFORMATION. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT AND/OR ENGINEER OF ANY GRADING DISCREPANCIES OR CONCERNS.
14. ESTABLISH AND MAINTAIN TOP OF GRADE BELOW ADJACENT CURBS, WALKWAYS AND OTHER HARDSCAPE AREAS TO ALLOW FOR INSTALLATION OF MULCH.
15. ALL PLANTING BEDS ARE TO BE COVERED WITH HARDWOOD MULCH TO A MINIMUM DEPTH OF 2-3 INCHES, UNLESS INDICATED OTHERWISE. MULCH SHALL BE AS SELECTED BY THE LANDSCAPE ARCHITECT. CONTRACTOR SHALL SUBMIT A SAMPLE FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO PURCHASE AND DELIVERY TO PROJECT SITE.
16. FINISH OFF 2-4 FOOT CLEAR ZONE AROUND TREES WITH A 2-3-INCH LAYER OF MULCH, BUT DO NOT PLACE UP AGAINST OR MOUND AROUND THE ROOT FLARE.
17. MIXED GROUNDCOVER AND PLANTS SPECIFIED FOR MASS PLANTINGS SHALL BE PLANTED IN ODD GROUPINGS AND LOCATED AS REQUIRED TO PROVIDE A GENERAL MIXING OF SPECIES. DO NOT PLANT IN ROWS OR REPETITIVE PATTERNS UNLESS OTHERWISE DIRECTED.
18. ALL TREES ADJACENT TO PEDESTRIAN WALKWAYS AND IN SIGHT TRIANGLES SHALL BE UNDER-TRIMMED SUFFICIENTLY TO ALLOW CLEAR SIGHT AND PEDESTRIAN ACCESS UP TO 6 FEET ABOVE SIDEWALK ELEVATION. ALL PRUNING SHALL BE PERFORMED BY A CERTIFIED ARBORIST AND ADHERE TO THE ANSI A300 PRUNING STANDARD. PRUNING CUTS ARE TO BE DELIBERATE AND TARGETED ONLY TO THE NECESSARY BRANCHES IN ORDER TO SATISFY SIGHT AND CLEARANCE REQUIREMENTS WHILE MAINTAINING THE INTEGRITY OF THE TREES.
19. CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING (INCLUDING, BUT NOT LIMITED TO WATERING, MULCHING, SPRAYING, FERTILIZING, ETC.) OF THE PLANTING AREAS UNTIL FINAL ACCEPTANCE.
20. ANY PLANT WHICH DIES, TURNS BROWN OR DEFOLIATES PRIOR TO FINAL ACCEPTANCE OF THE WORK SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, IN ACCORDANCE WITH THE APPROPRIATE PLANTING SEASON; QUANTITY AND SIZE TO MEET PLAN SPECIFICATIONS.

CONSTRUCTED WETLAND ZONES

- DEEP POOL
- TEMPORARY INUNDATION
- SHALLOW WATER

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CONFORMED CONSTRUCTION DOCUMENTS

WHITEVILLE COMMUNITY SPACE

907 S MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

Signed, Sealed & Delivered
NORTH CAROLINA LANDSCAPE ARCHITECT
REGISTRATION
2069
JONATHAN A. BLASCO

12/18/2025

0 15 30
SCALE: 1 inch = 30 ft.

INITIAL PLAN DATE: 08/25/2025
REVISIONS:
-
-
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WR JOB NUMBER	23-0695
DRN: JMD	DGN: JMD CKD: JAB

LANDSCAPE PLAN

L1.01

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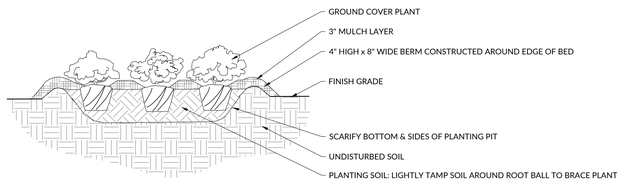
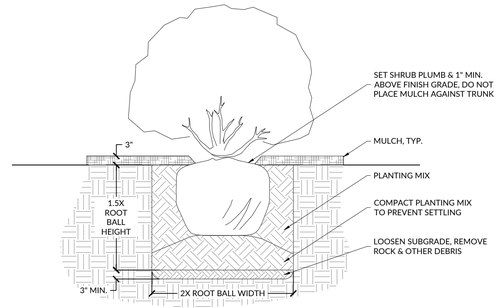


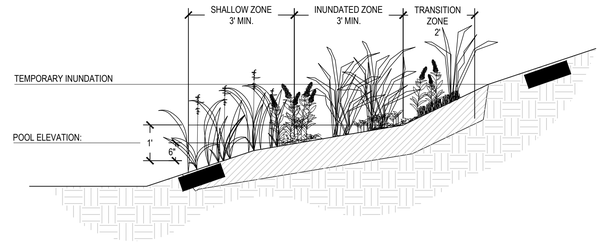
PLANTING NOTES:
1. SPLIT PLANT ROOTS WITH 2-3 EQUALLY-SPACED VERTICAL CUTS.

01 GROUND COVER PLANTING — SECTION
SCALE: 3/8" = 1'-0"



NOTES:
1. FOR CONTAINER PLANTS, SPLIT THE ROOT BALL WITH 4 EQUALLY SPACED VERTICAL CUTS & SCARIFY ROOT MASS PRIOR TO PLANTING.
2. FOR B&B PLANTS, REMOVE ALL TWINE, ROPE, WIRE, AND BURLAP FROM ROOT BALL.
3. A 3" HIGH x 8" WIDE BERM SHALL BE MADE AROUND THE ROOT BALL EDGE.
4. PLANTING AREAS WITH MULTIPLE SHRUBS ARE TO BE SIZED SO THAT THE OUTER EDGE OF PLANTING SOIL IS 8" MIN. FROM THE NEAREST SHRUB.
5. SHRUBS ARE TO BE LOCATED SUCH THAT MATURE CANOPY IS 5' MIN. FROM FIRE HYDRANTS AND 24" MIN. FROM CURB LINE.
6. SHRUBS ARE TO BE LOCATED WITH TRIANGULAR SPACING (SEE DETAIL) UNLESS OTHERWISE SHOWN ON THE PLANS.
7. PRUNE SHRUBS ONLY AS NEEDED TO REMOVE DEAD OR BROKEN BRANCHES.

02 SHRUB PLANTING — SECTION
SCALE: 1/2" = 1'-0"

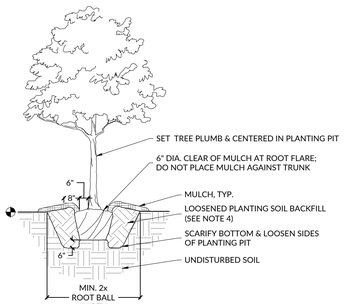


SHALLOW ZONE:
0"-6" AQUATIC PLANT SPECIES WITH VARIATION MIXES
6" HEIGHT MINIMUM, 6"-12" O.C. IN TRIANGULAR PLANTING SEQUENCE

INUNDATED ZONE:
6"-12" WATER TOLERANT PLANT SPECIES WITH VARIATION MIXES
6" HEIGHT MINIMUM, 6"-18" O.C. IN TRIANGULAR PLANTING SEQUENCE
(SPACING DETAILED IN PLANTING SCHEDULE)

TRANSITION ZONE:
12"-2' WATER TOLERANT PLANT SPECIES WITH VARIATION, MIXED SHELF
6"-12" HEIGHT MINIMUM, 6"-36" O.C. IN TRIANGULAR PLANTING SEQUENCE
(SPACING IS DETAILED IN PLANTING SCHEDULE)

03 BIORENTENTION PLANTING — SECTION
SCALE: 1/2" = 1'-0"



NOTES:
1. FOR CONTAINER PLANTS, REMOVE CONTAINER & SCARIFY ROOT MASS PRIOR TO PLANTING.
2. FOR B&B PLANTS, COMPLETELY REMOVE WIRE BASKET AND BURLAP MATERIAL; REMOVE ALL TWINE, ROPE,BURLAP, AND WIRE FROM ROOT BALL.
3. SET ROOT BALL ON UNDISTURBED STABLE SUBSOIL SO THAT TOP OF ROOT BALL IS 2-3" ABOVE FINISHED GRADE. TAMP SOIL FIRMLY AROUND BOTTOM OF ROOT BALL TO SET TREE PLUMB.
4. DIG & TURN PLANTING SOIL TO REDUCE COMPACTION. LIGHTLY TAMP SOIL AROUND ROOT BALL IN 6" LIFTS TO BRACE THE TREE. DO NOT OVER-COMPACT. MIX COMPOST INTO EACH LIFT OF BACKFILL AS RECOMMENDED IN SOIL REPORT. POUR WATER AROUND ROOT BALL TO SETTLE SOIL, AND BACKFILL AS REQUIRED TO MEET REQUIRED FINISHED GRADE.
5. A 3" HIGH x 8" WIDE BERM SHALL BE MADE AROUND THE ROOT BALL EDGE.
6. PRUNE TREES ONLY AS NEEDED TO REMOVE DEAD OR BROKEN BRANCHES.
7. TREES IN WINDY LOCATIONS OR ON STEEP SLOPES ARE TO BE ANCHORED PER DIRECTION FROM LANDSCAPE ARCHITECT.

04 TREE PLANTING — SECTION
SCALE: 1/4" = 1'-0"

PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	HEIGHT
TREES							
	TAX ASC	2	TAXODIUM ASCENDENS	POND CYPRESS	B&B OR CONT	2" CAL MIN	10` MIN

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	HEIGHT
SHRUBS							
	CAL AME	13	CALLICARPA AMERICANA	AMERICAN BEAUTYBERRY	3 GAL	CONT	24" MIN
	CEP OCC	15	CEPHALANTHUS OCCIDENTALIS	BUTTONBUSH	3 GAL	CONT	24" MIN
	CLA ALT	15	CLETHRA ALTERNIFOLIA	SWEET PEPPERBUSH	3 GAL	CONT	24" MIN
	ITE VIR	22	ITEA VIRGINICA	VIRGINIA SWEETSPIRE	3 GAL	CONT	24" MIN
	LOB CRA	37	LOBELIA CARDINALIS 'ALBA'	WHITE CARDINAL FLOWER	1 GAL	CONT	18" MIN.

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING
GROUNDCOVERS							
	CYN DSE	96,847 SF	CYNODON DACTYLON (SEED)	BERMUDAGRASS	SEED	SEED	
	CYN DSO	24,036 SF	CYNODON DACTYLON (SOD)	BERMUDAGRASS	SOD	SOD	
ORNAMENTAL GRASSES							
	AND GER	62	ANDROPOGON GERARDII	BIG BLUESTEM	3 GAL.	CONT	24" o.c.
	JUN EFF	58	JUNCUS EFFUSUS	SOFT RUSH	1 GAL	CONT	24" o.c.
	SCH LIT	40	SCHIZACHYRIUM LITTORALE	COASTAL LITTLE BLUESTEM	1 GAL	CONT	24" o.c.
PERENNIALS							
	CON DSC	87	CONOCLINIUM DISSECTUM	MISTFLOWER	1 GAL	CONT	24" o.c.
	HYP MUT	71	HYPERICUM MUTILUM	DWARF ST. JOHNS WORT	3 GAL.	CONT	24" o.c.
	RUD FUL	51	RUDBECKIA FULGIDA	CONEFLOWER	1 GAL	CONT	24" o.c.

CONSTRUCTED WETLAND PLANT SCHEDULE - INUNDATION ZONE (3,116.8 SF/50 HERB. PLANTS/200 SF = 780 PLANTS REQ., 792 PROVIDED)

QTY	CODE	BOTANICAL NAME	COMMON NAME		SIZE	SPACING
TREES						
	TAX ASC	TAXODIUM ASCENDENS	POND CYPRESS	2" CAL.	B&B	

QTY	CODE	BOTANICAL NAME	COMMON NAME		SIZE	SPACING
HERBACEOUS/PERENNIALS						
132	CON DSC	CONOCLINIUM DISSECTUM	MISTFLOWER	CONT.	9" FOLIAGE HT. AT INSTALL	TRIANGULAR - MIN. 24" OC
132	IRS VCG	IRIS VIRGINICA 'CONTRABAND GIRL'	SOUTHERN BLUE FLAG IRIS	CONT.	9" FOLIAGE HT. AT INSTALL	TRIANGULAR - MIN. 24" OC
132	LUD ALT	LUDWIGIA ALTERNIFOLIA	BUSHY SEEDBOX	CONT.	9" FOLIAGE HT. AT INSTALL	TRIANGULAR - MIN. 24" OC
132	SAR CER	SAURURUS CERNUUS	LIZARD'S TAIL	CONT.	9" FOLIAGE HT. AT INSTALL	TRIANGULAR - MIN. 24" OC

QTY	CODE	BOTANICAL NAME	COMMON NAME		SIZE	CONTAINER
ORNAMENTAL GRASSES						
132	JUN EFF	JUNCUS EFFUSUS	SOFT RUSH	CONT.	24" MIN.\1 GAL MIN.	TRIANGULAR - MIN. 24" OC
132	SCH LIT	SCHIZACHYRIUM LITTORALE	COASTAL LITTLE BLUESTEM	CONT.	24" MIN.\1 GAL MIN.	TRIANGULAR - MIN. 24" OC

CONSTRUCTED WETLAND PLANT SCHEDULE - SHALLOW WATER (3,900.1 SF/50 HERB. PLANTS/200 SF = 976 PLANTS REQ., 990 PROVIDED)

QTY	CODE	BOTANICAL NAME	COMMON NAME		SIZE	SPACING
HERBACEOUS/PERENNIALS						
198	ASC INC	ASCLEPIAS INCARNATA	SWAMP MILKWEED	CONT.	9" FOLIAGE HT. AT INSTALL	TRIANGULAR - MIN. 24" OC
198	EUP FIS	EUPATORIUM FISTULOSUM	FALSE DAISY	CONT.	9" FOLIAGE HT. AT INSTALL	TRIANGULAR - MIN. 24" OC
198	ECL PRO	ECLIPTA PROSTRATA	HOLLOW JOE PYE WEED	CONT.	9" FOLIAGE HT. AT INSTALL	TRIANGULAR - MIN. 24" OC
198	PET VIR	PELTANDRA VIRGINICA	ARROW ARUM	CONT.	9" FOLIAGE HT. AT INSTALL	TRIANGULAR - MIN. 24" OC

QTY	CODE	BOTANICAL NAME	COMMON NAME		SIZE	CONTAINER
ORNAMENTAL GRASSES						
198	AND GER	ANDROPOGON GERARDII	BIG BLUESTEM	CONT.	1 GAL.	TRIANGULAR - MIN. 24" OC

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CONFORMED CONSTRUCTION DOCUMENTS
WHITEVILLE COMMUNITY SPACE
907 S MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

Signed by: NORTH CAROLINA LANDSCAPE ARCHITECTURE... 2069 JONATHAN A. BLASCO
12/18/2025

SCALE AS SHOWN

INITIAL PLAN DATE: 08/25/2025
REVISIONS:
-
-
-

WR JOB NUMBER 23-0695
DRN: JMD DGN: JMD CKD: JAB

LANDSCAPE NOTES & DETAILS

L2.00

J:\23\0695 Whiteville - Design Services for Community Space\CAD\Drawing Sets\Conformed Set\L3.XX LANDSCAPE DETAILS.dwg, Wednesday, August 6, 2025 3:43:29 PM, JDOLAN

Docusign Envelope ID: B0CEA885-3FB4-428E-B1F8-DA167BF69CC6

GENERAL NOTES

REGULATORY REQUIREMENTS

0-0. ALL WORK SHALL CONFORM TO:
- NORTH CAROLINA EXISTING BUILDNG CODE, 2018 EDITION AND CURRENT AMENDMENTS
- NORTH CAROLINA STATE BUILDING CODE, 2018 EDITION AND CURRENT AMENDMENTS
- RULES AND REGULATIONS OF THE *CITY OF WHITEVILLE, NORTH CAROLINA*
- RULES AND REGULATIONS OF PUBLIC UTILITIES
- AMERICANS WITH DISABILITIES ACT, 26 JULY 1991 AND ANSI A117.1 - 2017 WITH RESPECTIVE CURRENT AMENDMENTS
-

0-1. THE CODE COMPLIANCE SUMMARIES ARE GUIDES TO THE CONSTRUCTION CRITERIA DEVELOPED FOR THIS PROJECT. THEY ARE NOT INTENDED TO BE A COMPLETE LIST OF CODE REQUIREMENTS.
0-2. MAINTAIN INTEGRITY OF FIRE RESISTANCE RATING OF ALL RATED SHAFT ENCLOSURES AND RATED PARTITIONS BEHIND RECESSED WALL ACCESSORIES, INCLUDING FIRE EXTINGUISHER CABINETS, TOILET ACCESSORIES, ELECTRICAL JUNCTION BOXES, AND OTHER ITEMS WHERE THEY OCCUR.
0-3. PENETRATIONS OF PIPES, CONDUITS, SWITCHES, OUTLETS, AND OTHER ITEMS AT RATED ASSEMBLIES SHALL BE FIRE-STOPPED.

GENERAL REQUIREMENTS

1-0. REFER TO THE PROJECT MANUAL FOR COMPLETE GENERAL REQUIREMENTS AND CONDITIONS OF THE CONTRACT. THE PROJECT MANUAL SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES IN THE EVENT OF A CONFLICT.
1-1. THE GENERAL CONTRACTOR MUST COORDINATE ARCHITECTURAL DRAWINGS WITH STRUCTURAL AND PM&E DRAWINGS AND ALL OWNER'S VENDORS INCLUDING, BUT NOT LIMITED TO, TELEPHONE, AUDIO/VISUAL , SECURITY SYSTEMS AND RESTAURANT EQUIPMENT. NOTIFY ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.
1-2. THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS ARE RESPONSIBLE FOR REVIEWING AND COORDINATING THEIR WORK WITH ALL OF THE DRAWINGS PRIOR TO INSTALLATION. OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE DRAWINGS, PROJECT MANUAL, NOTES, AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BY THE GENERAL CONTRACTOR AND SHALL BE RESOLVED WITH THE ARCHITECT BEFORE PROCEEDING WITH THE WORK OR RELATED WORK.

DIMENSIONING REQUIREMENTS

2-0. DIMENSIONS ARE NOTED OR CAN BE DETERMINED FROM OTHER INFORMATION INCLUDED IN THE DRAWINGS. VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR OMISSIONS. DO NOT PROCEED WITH AFFECTED WORK OR RELATED WORK UNTIL THE VARIATIONS OR OMISSIONS HAVE BEEN RESOLVED BY THE ARCHITECT. DO NOT SCALE DRAWINGS. DRAWING SHEETS LESS THAN *24"x 36"* MAY HAVE BEEN REDUCED FROM THE ORIGINALS. *11"X17"* SETS ARE HALF-SIZED WHEN NOTED.
2-1. ALL DIMENSIONS ARE TO FINISHED FACE OF WALL UNLESS OTHERWISE NOTED.
2-2. WALLS SHOWN TO ALIGN ARE TO HAVE FINISH FACES ALIGN UNLESS OTHERWISE NOTED.
2-3. IF PROVIDED, REFER TO ENLARGED PLANS AND PLAN DETAILS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
2-4. LOCATIONS OF ALL DEVICES AND FIXTURES DIMENSIONED, NOTED OR OTHERWISE DESCRIBED, ARE EXACT. ALL NEW FRAMING MUST ACCOMMODATE THESE LOCATIONS.
2-5. ANY DIMENSIONS OF OR TYING IN TO EXISTING BUILDING COMPONENTS ARE TO BE FIELD-VERIFIED PRIOR TO COMMENCEMENT OF WORK. VERIFY ANY DISCREPANCIES W/ ARCHITECT PRIOR TO COMMENCEMENT OF WORK.

OTHER REQUIREMENTS

3-1. TYPICAL DETAILS SHOWN ON THE DRAWINGS SHALL BE INCORPORATED AT ALL APPROPRIATE LOCATIONS WHETHER OR NOT SPECIFICALLY REFERENCED AT EACH LOCATION.
3-2. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ANY REQUIRED DEMOLITION, TEMPORARY SUPPORT OF, AND/OR DAMAGE TO NEW OR EXISTING STRUCTURE DURING CONSTRUCTION.
3-3. THE GENERAL CONTRACTOR IS TO COORDINATE, PROVIDE, AND INSTALL CONCEALED BLOCKING FOR ALL WALL-MOUNTED ITEMS INCLUDING, BUT NOT LIMITED TO, HAND RAILS, EQUIPMENT, OWNER- AND/OR VENDOR-PROVIDED ITEMS, ETC.
3-4. NO EXPOSED CONDUIT, WIRING, OR PIPING IS PERMITTED WITHOUT ARCHITECT APPROVAL UNLESS SPECIFICALLY NOTED OTHERWISE. WHERE OPEN CEILING CONDITIONS EXIST, THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING SYSTEMS COORDINATION BETWEEN THE TRADES. COORDINATION DRAWINGS SHALL BE PROVIDED FOR THE ARCHITECT'S REVIEW. ALL CONFLICTS ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO INSTALLATION.
3-5. ALL FRAMING, SOUND ATTENUATION, AND GYP BOARD FOR NON-RATED SOUND-ATTENUATED WALLS SHALL CONTINUE TO THE UNDERSIDE OF DECK UNLESS SPECIFICALLY NOTED OTHERWISE. GYP BOARD SHALL BE SEALED TO DECK AT EACH FACE WITH JOINT COMPOUND, SEALANT, AND/OR EXPANDING FOAM (ACCEPTABLE ONLY IN CONCEALED CONDITIONS). ANY REQUIRED PIPE, DUCT, OR WIRING PENETRATIONS SHALL BE SEALED AS DESCRIBED ABOVE.
3-6. IN AREAS OF HARD CEILING, BUILDING SYSTEMS SHALL BE CONFIGURED TO MINIMIZE REQUIRED ABOVE-CEILING ACCESS. THE LOCATION OF ALL ACCESS DOORS MUST BE COORDINATED WITH AND APPROVED BY THE ARCHITECT PRIOR TO THE INSTALLATION OF ANY ABOVE-CEILING EQUIPMENT, DAMPERS, VALVES, JUNCTION BOXES, ETC. ACCESS DOORS SHALL BE PROVIDED AND INSTALLED FOR ANY WORK THAT REQUIRES ABOVE-CEILING ACCESS. ADDITIONALLY, ANY ACCESS DOORS OR PANELS REQUIRED IN WALLS MUST BE COORDINATED WITH AND APPROVED BY THE ARCHITECT PRIOR TO THE INSTALLATION OF ANY EQUIPMENT REQUIRING ACCESS.

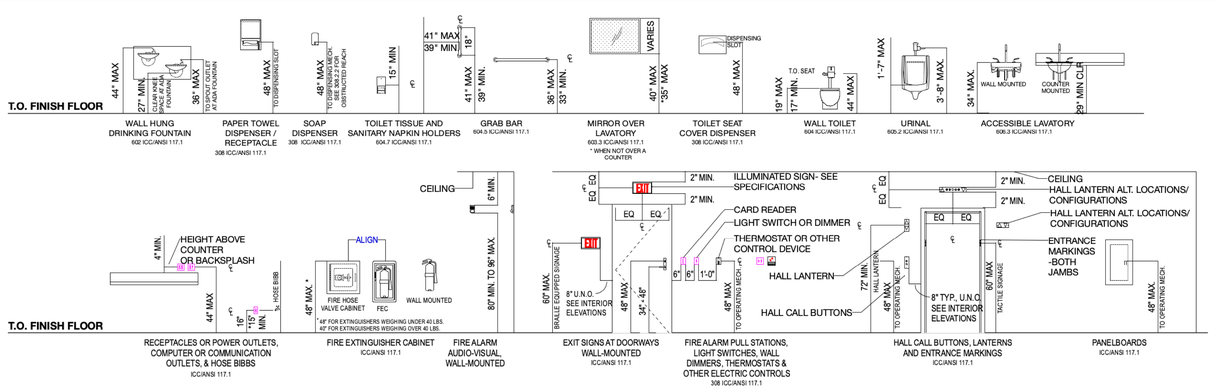
WALL TYPES

REFER TO SHEET A2.00 FOR WALL TYPES

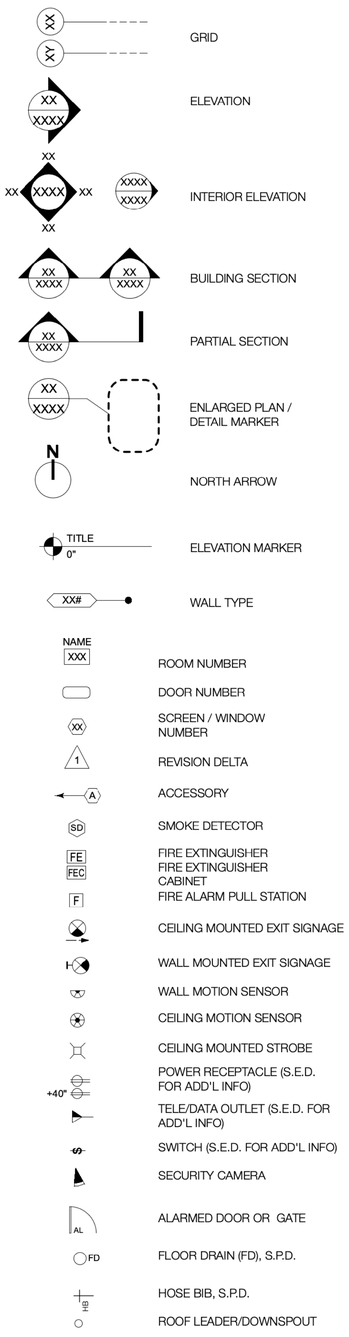
ABBREVIATIONS

&	AND
<	ANGLE
°	ANGLE IN DEGREES
@	AT
X,x	BY
Ø	DIAMETER
(E)	EXISTING
(N)	NEW
%	PERCENT
#	POUNDS OR NUMBER
ABV	ABOVE
ACC	ACCESSIBLE
ACM	ALUMINUM COMPOSITE MATERIAL
ACT	ACOUSTICAL CEILING TILE
AD	ACCESS DOOR, AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT
ADD'L	ADDITIONAL
ADJ	ADJACENT
ADMIN	ADMINISTRATION
AF	ACCESS FLOOR
AFF	ABOVE FINISH FLOOR
AGGR	AGGREGATE
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
AL	ALUMINUM
ANOD	ANODIZED
APPROX	APPROXIMATE(LY)
ATR	ABOVE TOP OF RAIL
AUX	AUXILIARY
A/V	AUDIO VISUAL
BD	BOARD
BIT	BITUMEN
BLDG	BUILDING
BLST	BALLAST
BLW	BELOW
BM	BEAM
BO	BOTTOM OF
BOF	BOTTOM OF FOOTING
BOL	BOLLARD
BOT	BOTTOM
BRKT	BRACKET
BTWN	BETWEEN
BUR	BUILT UP ROOF
CB	CATCH BASIN
CEM.	CEMENT(ITIOUS)
CI	CAST IRON
C.I.P.	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLK	CAULK(ING)
CLNG	CEILING
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPOSITE
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CPT	CARPET
CSJ	CONSTRUCTION JOINT
CTR	CENTER
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLITION
DET	DETAIL(S)
D.G.	DECOMPOSED GRANITE
D/I	DIRECT/INDIRECT
DIA	DIAMETER
DIM	DIMENSION
DIST	DISTANCE
DIV	DIVISION
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DSP	DRY STANDPIPE
DTL	DETAIL
DWG	DRAWING
DWR	DRAWER
E	EAST
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATION OR ELEVATOR
EO	EDGE OF
EQ	EQUAL/ EQUAL TO
EQP	EQUIPMENT
EQUIV	EQUIVALENT
ES	EXIT SIGN
EWC	ELECTRIC WATER COOLER
EXT	EXTERIOR
F	FIRE ALARM
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FFL	FINISH FLOOR LEVEL
FH	FIRE HYDRANT
FLR	FLOOR
FLUOR	FLUORESCENT
FIN	FINISH
F.O.	FACE OF
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOIC	FURNISHED BY OWNER/INSTALLED BY CONTRACTOR
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FR	FIRE RETARDANT
FRP	FIBERGLASS REINFORCED PLASTIC
FRPT	FIRE RETARDANT/PT
FSR	FASTENER FLAME SPREAD RATING
FT	FOOT, FEET
FTG	FOOTING
FURN	FURNITURE
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GLAZ	GLAZING
GOVT	GOVERNMENT
GR	GRANITE
GRD	GRADE
GSM	GALVANIZED SHEET METAL
GT	GROUT
GUT	GUTTER
GWB	GYPSUM BOARD
GYP BD	GYPSUM BOARD
H	HEIGHT
HB	HOSE BIBB
HC	HANDICAPPED, HOLLOW CORE
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HO	HOLD OPEN
HORIZ	HORIZONTAL
HR	HOUR
HSS	HOLLOW STRUCTURAL SECTION
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
ID	INSIDE DIAMETER
IFO	INSIDE FACE OF
INCAND	INCANDESCENT
INCL	INCLUDE(D), INCLUSIVE
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
IRR	IRRIGATION
KDAT	KILN DRIED AFTER TREATMENT
LAM	LAMINATE(D)
LAV	LAVATORY
LB	POUND
LD	LINEAR DIFFUSER
LDR	LEADER
LED	LIGHT EMITTING DIODE
LH	LEFT HAND
LIN	LINEAR
LO	LINE OF
LOC	LOCATION
MAINT	MAINTAIN, MAINTENANCE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL
N	NORTH
NA	NOT APPLICABLE
NF	NO FINISH
NFC	NO FINISH CEILING
N.I.C	NOT IN CONTRACT
NO.	NUMBER
NOM	NOMINAL
NPRN	NEOPRENE
NTS	NOT TO SCALE
o/	OVER
OAE	OR APPROVED EQUAL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFF	OFFICE
OFO	OUTSIDE FACE OF
OH	OPPOSITE HAND
OPP	OPPOSITE
OVFL	OVERFLOW
OVHD	OVERHEAD
OZ	OUNCE
PASS	PASSENGER
P/C	PRECAST
PERF	PERFORATED
PERP	PERPENDICULAR
PKG	PARKING
P/L	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLY	PLYWOOD
POL	POLISH(ED)
POT	PATH OF TRAVEL
PR	PAIR
PREFIN	PREFINISHED
PRELIM	PRELIMINARY
PRESS	PRESSURE
PROJ	PROJECT
PROP	PROPERTY
PROT	PROTECTION
PT	PRESSURE TREATED
PTD	PAINTED
PVC	POLYVINYL CHLORIDE
RAD	RADIUS
RCP	REFLECTED CEILING PLAN
RE	REFER TO
REINF	REINFORCE(D)
REQD	REQUIRED
RH	RIGHT HAND
RM	ROOM
R.O.	ROUGH OPENING
S	SOUTH
SB	SPLASH BLOCK
S.C.	SOLID CORE
S.C.D.	SEE CIVIL DRAWINGS
SCHED	SCHEDULE
SECT	SECTION
S.E.D.	SEE ELECTRICAL DRAWINGS
SIM	SIMILAR
SL	SLOPE
S.L.A.D.	SEE LANDSCAPE DRAWINGS
S.M.	SURFACE MOUNTED
S.M.D.	SEE MECHANCIAL DRAWINGS
S.P.D.	SEE PLUMBING DRAWINGS
SPECS	SPECIFICATIONS
S.S.	STAINLESS STEEL
S.S.D.	SEE STRUCTURAL DRAWINGS
STL	STEEL
STRUCT	STRUCTURE
THK	THICK
THRU	THROUGH
T.O.	TOP OF
T.O.F.	TOP OF FOOTING
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VER	VERIFY
VIF	VERIFY IN FIELD
w/	WITH
WC	WATER CLOSET
WD	WOOD

MOUNTING HEIGHTS



SYMBOLS



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PROVISION STUDIO
RALEIGH, NC 27604
www.provisionstudio.design

CONFORMED CONSTRUCTION DOCUMENTS

WHITEVILLE COMMUNITY SPACE

907 MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

Provision Studio, PLLC — 53749 — North Carolina — Registered Architectural Company — Raleigh, North Carolina

JOHN ROBERT ZELLWEGER — REGISTERED — SEAL — 17105 — ARCHITECT — NORTH CAROLINA

SCALE: 1 inch = 30 ft.

INITIAL PLAN DATE: 8/25/2025
REVISIONS:

WR JOB NUMBER 23-0695
DRN: DC/JZ DGN: DC/JZ CKD: DC

ABBREVIATIONS, SYMBOLS & MOUNTING HEIGHTS

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2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: Whiteville Community Park Bandshell
Address: 907 Madison Street, Whiteville, NC Zip Code 28472
Owner/Authorized Agent: Jon Zellweger Phone # (910) 740 - 5436 E-Mail jz@provisionstudio.design
Owned By: [X] City/County [ ] Private [ ] State
Code Enforcement Jurisdiction: [X] City [ ] County [ ] State

CONTACT:

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	Provision Studio	Jon Zellweger	11106	(910)740.5436	jz@provisionstudio.design
Civil	WithersRavenel	Jon Blasco		(919)817.5366	jblasco@withersravenel.com
Electrical	Sigma Engineered Sol.	Reginald Adams	19668	(919)840.9300	radams@sigmaes.co
Fire Alarm	n/a		( )		
Plumbing	Sigma Engineered Sol.	Elton Smith	034274	(919)840.9300	esmith@sigmaes.com
Mechanical	Sigma Engineered Sol.	Elton Smith	034274	(919)840.9300	esmith@sigmaes.com
Sprinkler- Standpipe	n/a		( )		
Structural	Lynch McAfee	Nick Sparks	063114	(864)222.1383	nsparks@lynchmcafee.com
Retaining Walls >5' High	n/a		( )		
Other			( )		

("Other" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: [X] New Building [ ] Addition [ ] Renovation
[ ] 1st Time Interior Completion
[ ] Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements
[ ] Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements

2018 NC EXISTING BUILDING CODE: EXISTING: [ ] Prescriptive [ ] Repair [ ] Chapter 14
Alteration: [ ] Level I [ ] Level II [ ] Level III
[ ] Historic Property [ ] Change of Use

CONSTRUCTED: (date) _____ **CURRENT OCCUPANCY(S)** (Ch. 3): _____
RENOVATED: (date) _____ **PROPOSED OCCUPANCY(S)**. (Ch. 3): _____
RISK CATEGORY (Table 1604.5): **Current:** [ ] I [ ] II [ ] III [ ] IV
Proposed: [X] I [ ] II [ ] III [ ] IV

BASIC BUILDING DATA
Construction Type: [ ] I-A [ ] II-A [ ] III-A [ ] IV [ ] V-A
(check all that apply) [ ] I-B [ ] II-B [ ] III-B [X] V-B
Sprinklers: [X] No [ ] Partial [ ] Yes [ ] NFPA 13 [ ] NFPA 13R [ ] NFPA 13D
Standpipes: [X] No [ ] Yes Class [ ] I [ ] II [ ] III [ ] Wet [ ] Dry
Fire District: [ ] No [X] Yes **Flood Hazard Area:** [ ] No [X] Yes
Special Inspections Required: [X] No [ ] Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

Gross Building Area Table

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3rd Floor		n/a	n/a
2nd Floor		n/a	n/a
Mezzanine		n/a	n/a
1st Floor		1,006sf	1,006sf
Basement		n/a	n/a
TOTAL		1,006sf	1,006sf

ALLOWABLE AREA

Primary Occupancy Classification(s):
Assembly [ ] A-1 [ ] A-2 [ ] A-3 [ ] A-4 [X] A-5
Business [ ]
Educational [ ]
Factory [ ] F-1 Moderate [ ] F-2 Low
Hazardous [ ] H-1 Detonate [ ] H-2 Deflagrate [ ] H-3 Combust [ ] H-4 Health [ ] H-5 HPM
Institutional [ ] I-1 Condition [ ] 1 [ ] 2
[ ] I-2 Condition [ ] 1 [ ] 2
[ ] I-3 Condition [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5
[ ] I-4
Mercantile [ ]
Residential [ ] R-1 [ ] R-2 [ ] R-3 [ ] R-4
Storage [ ] S-1 Moderate [ ] S-2 Low [ ] High-piled
[ ] Parking Garage [ ] Open [ ] Enclosed [ ] Repair Garage
Utility and Miscellaneous [ ]
Accessory Occupancy Classification(s): n/a
Incidental Uses (Table 509): n/a
Special Uses (Chapter 4 – List Code Section): n/a
Special Provisions: (Chapter 5 – List Code Section): n/a
Mixed Occupancy: [X] No [ ] Yes Separation: ____ Hr. Exception: _____

[ ] Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

[ ] Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

_____ + _____ + ... = _____ ≤ 1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[4] AREA	(C) AREA FOR FRONTAGE INCREASE[1,2]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
1	Stage / Bandshell	1,006sf	9,000sf	0	9,000sf

[1] Frontage area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = ___n/a___ (F)
b. Total Building Perimeter = ____-____ (P)
c. Ratio (F/P) = ____-____ (F/P)
d. W = Minimum width of public way = ____-____ (W)
e. Percent of frontage increase $I_f = 100[F/P - 0.25] \times W/30 =$ ____-____ (%)
[2] Unlimited area applicable under conditions of Section 507.
[3] Maximum Building Area = total number of stories in the building x D (maximum3 stories) (506.2).
[4] The maximum area of open parking garages must comply with Table 406.5.4.
[5] Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE[1]
Building Height in Feet (Table 504.3)[2]	40'0"	22'0"	n/a
Building Height in Stories (Table 504.4)[3]	2	1	n/a

[1] Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.
[2] The maximum height of air traffic control towers must comply with Table 412.3.1.
[3] The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/ REDUCTION) *	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses							
Bearing Walls							
Exterior							
North							
East							
West							
South							
Interior							
Nonbearing Walls and Partitions							
Exterior walls							
North							
East							
West							
South							
Interior walls and partitions							
Floor Construction including supporting beams and joists							
Floor Ceiling Assembly							
Columns Supporting Floors							
Roof Construction, including supporting beams and joists							
Roof Ceiling Assembly							
Columns Supporting Roof							
Shaft Enclosures - Exit							
Shaft Enclosures - Other							
Corridor Separation							
Occupancy/Fire Barrier Separation							
Party/Fire Wall Separation							
Smoke Barrier Separation							
Smoke Partition							
Tenant/Dwelling Unit/ Sleeping Unit Separation							
Incidental Use Separation							

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENING PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
n/a	n/a	n/a	n/a

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: [X] No [ ] Yes
Exit Signs: [X] No [ ] Yes
Fire Alarm: [X] No [ ] Yes
Smoke Detection Systems: [X] No [ ] Yes [ ] Partial _____
Carbon Monoxide Detection: [X] No [ ] Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: n/a

[ ] Fire and/or smoke rated wall locations (Chapter 7)
[ ] Assumed and real property line locations (if not on the site plan)
[ ] Exterior wall opening area with respect to distance to assumed property lines (705.8)
[ ] Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
[ ] Occupant loads for each area
[ ] Exit sign locations (1013)
[ ] Exit access travel distances (1017)
[ ] Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
[ ] Dead end lengths (1020.4)
[ ] Clear exit widths for each exit door
[ ] Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
[ ] Actual occupant load for each exit door
[ ] A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
[ ] Location of doors with panic hardware (1010.1.10)
[ ] Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
[ ] Location of doors with electromagnetic egress locks (1010.1.9.9)
[ ] Location of doors equipped with hold-open devices
[ ] Location of emergency escape windows (1030)
[ ] The square footage of each fire area (202)
[ ] The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
[ ] Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS
(SECTION 1107)

UNIT CLASSIFICATION	TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
N/A								

ACCESSIBLE PARKING
(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED		TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	96" SPACES	132" SPACES	
N/A					
TOTAL					

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE		WATER CLOSETS			URINALS	LAVATORIES			SHOWERS	DRINKING FOUNTAINS	
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX	/TUBS	REGULAR	ACCESSIBLE
SPACE	EXIST'G										
	NEW	0	0	1	0	0	0	1	0	0	0
	REQ'D	0	0	0	0	0	0	0	0	0	0

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)
FEMA Elevation Cartificate and NCDEQ site plan approvals

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: [ ] No [ ] Yes (The remainder of this section is not applicable)

Exempt Building: [ ] No [X] Yes (Provide code or statutory reference): **N.C.G.S. 143-138 (B10)** ENCLOSED PORTION OF THE BUILDING IS CLASSIFIED AS GROUP U OCCUPANCY, NO EDC PROVISIONS SHALL APPLY.

Climate Zone: [ ] 3A [X] 4A [ ] 5A

Method of Compliance: Energy Code [ ] Performance [ ] Prescriptive
ASHRAE 90.1 [ ] Performance [ ] Prescriptive
(If "Other" specify source here)_____

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)
Description of assembly: N/A
U-Value of total assembly: _____
R-Value of insulation: _____
Skylights in each assembly: _____
U-Value of skylight: _____
total square footage of skylights in each assembly: _____

Exterior Walls (each assembly)
Description of assembly: N/A
U-Value of total assembly: _____
R-Value of insulation: _____
Openings (windows or doors with glazing)
U-Value of assembly: _____
Solar heat gain coefficient: _____
projection factor: _____
Door R-Values: _____

Walls below grade (each assembly)
Description of assembly: N/A
U-Value of total assembly: _____
R-Value of insulation: _____

Floors over unconditioned space (each assembly)
Description of assembly: N/A
U-Value of total assembly: _____
R-Value of insulation: _____

Floors slab on grade
Description of assembly: N/A
U-Value of total assembly: _____
R-Value of insulation: _____
Horizontal/vertical requirement: _____
slab heated: _____

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Snow (I_s) _____ Seismic (I_E) _____

SEE STRUCTURAL SHEET S0.01 GENERAL NOTES - BANDSHELL

Live Loads: Roof _____ psf
Mezzanine _____ psf
Floor _____ psf

Ground Snow Load: _____ psf

Wind Load: Ultimate Wind Speed _____ mph (ASCE-7)
Exposure Category _____

SEISMIC DESIGN CATEGORY: [ ] A [ ] B [ ] C [ ] D
Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) [ ] I [ ] II [ ] III [ ] IV
Spectral Response Acceleration S_s_____ %g S_1_____ %g
Site Classification (ASCE 7) [ ] A [ ] B [ ] C [ ] D [ ] E [ ] F
Data Source: [ ] Field Test [ ] Presumptive [ ] Historical Data
Basic structural system [ ] Bearing Wall [ ] Dual w/Special Moment Frame
[ ] Building Frame [ ] Dual w/Intermediate R/C or Special Steel
[ ] Moment Frame [ ] Inverted Pendulum
Analysis Procedure: [ ] Simplified [ ] Equivalent Lateral Force [ ] Dynamic
Architectural, Mechanical, Components anchored? [ ] Yes [ ] No

LATERAL DESIGN CONTROL: Earthquake [ ] Wind [ ]

SOIL BEARING CAPACITIES:
Field Test (provsde copy of test report) _____ psf
Presumptive Bearing capacity _____ psf
Pile size, type, and capacity _____

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone 4A SEE MECHANICAL SHEET M0.02 FOR ADDITIONAL INFORMATION
winter dry bulb: 14°F
summer dry bulb: 94°F
summer wet bulb: 76°F
Interior design conditions
winter dry bulb: 70°F
summer dry bulb: 75°F
relative humidity: _____
Building heating load: 2,000 BTUh
Building cooling load: n/a
Mechanical Spacing Conditioning System
Unitary
description of unit: ELECTRIC UNIT HEATER
heating efficiency: 100%
cooling efficiency: n/a
size category of unit: 6,800 BTUh
Boiler
Size category. If oversized, state reason.: n/a
Chiller
Size category. If oversized, state reason.: n/a
List equipment efficiencies: _____

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

SEE ELECTRICAL SHEET E0.01 FOR ADDITIONAL INFORMATION

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code [ ] Performance [X] Prescriptive
ASHRAE 90.1 [ ] Performance [ ] Prescriptive

Lighting schedule (each fixture type)
lamp type required in fixture PER SCHEDULE
number of lamps in fixture PER SCHEDULE
ballast type used in the fixture PER SCHEDULE
number of ballasts in fixture PER SCHEDULE
total wattage per fixture PER SCHEDULE
total interior wattage specified vs. allowed (whole building or space by space) 7959W vs. 12396W
total exterior wattage specified vs. allowed 648W vs. 1000W

Additional Efficiency Package Options
(When using the 2018 NCECC; not required for ASHRAE 90.1)
[ ] C406.2 More Efficient HVAC Equipment Performance
[X] C406.3 Reduced Lighting Power Density
[ ] C406.4 Enhanced Digital Lighting Controls
[X] C406.5 On-Site Renewable Energy
[ ] C406.6 Dedicated Outdoor Air System
[ ] C406.7 Reduced Energy Use in Service Water Heating

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Provision Studio, PLLC — Registered Architectural Company — 53749 — North Carolina — Raleigh, North Carolina

JON ROBERT ZELLWEGER — Registered Seal — 11106 — Architect — North Carolina

0 15 30
SCALE: 1 inch = 30 ft.

INITIAL PLAN DATE: 8/25/2025
REVISIONS:

WR JOB NUMBER 23-0695
DRN: DC/JZ DGN: DC/JZ CKD: DC

CODE SUMMARY
Bandshell

A0.02

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ARCHITECTURAL PLAN LEGEND

W-X-XX — PARTITION TYPE

XX — DOOR TYPE - SEE SCHEDULE

27 SPACE — SPACE NUMBER AND NAME - SEE SCHEDULE

W-1 — 7 5/8" — 8"x16" CMU WALL, PAINT WHERE EXPOSED TO VIEW, REF STRUCTURAL DRAWINGS, TYP

W-2 — 1'-0" — 3/4" — 7 5/8" — 8"x16" CMU WALL w/ MODULAR BRICK VENEER, PAINT CMU WHERE EXPOSED TO VIEW, REF STRUCTURAL DRAWINGS, TYP

W-3-AS — 4 1/8" — (1) LAYER 5/8" GYPSUM WALL BOARD, 1-SIDE ONLY, PAINT o/ 3 1/2" WOOD STUD, BATT INSULATION BETWEEN STUDS - R-19

W-3 — 4 1/8" — (1) LAYER 5/8" GYPSUM WALL BOARD, 1-SIDE ONLY, PAINT o/ 3 1/2" WOOD STUD

W-4 — 4 1/2" — CERAMIC TILE o/ 5/8" TILE BACKER BOARD, 1-SIDE ONLY o/ WOOD STUD

FLOOR PLAN GENERAL NOTES

1. VERIFY PROVIDED AND CRITICAL DIMENSIONS IN FIELD PRIOR TO WORK COMMENCING.

2. WORK TO BE COORDINATED ACROSS ALL DISCIPLINES.

DOOR SCHEDULE

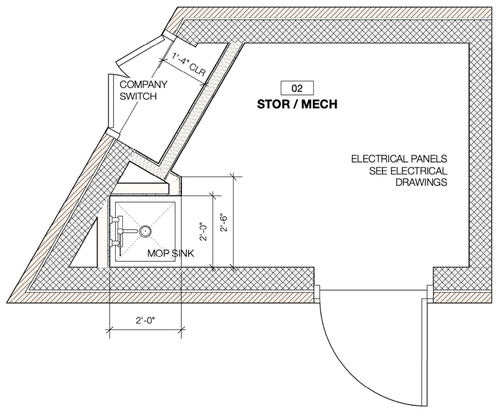
#		LOCATION	DOOR						FRAME					REMARKS
			SIZE			CONFIG	MATERIAL	TYPE	FINISH	MATERIAL	TYPE	HEAD	JAMB	SILL	
02	B	COMPANY SWITCH	3'0"	5'0"	1 3/4"	Swing	Custom	D1	PT	HM	F1	6/A5.00	5/A5.00	6/A5.00 SIM	FULL HM FRAME SURROUND AT DOORS / SILL @ 2'-0" AFF
02	A	STORAGE/MECHANICAL	3'0"	7'0"	1 3/4"	Swing	Solid	D2	PT	HM	F2	6/A5.00	5/A5.00	4/A5.00	
03		RESTROOM	3'0"	7'0"	1 3/4"	Swing	Solid	D2	PT	HM	F2	6/A5.00	5/A5.00	7/A5.00	

ROOM FINISH SCHEDULE

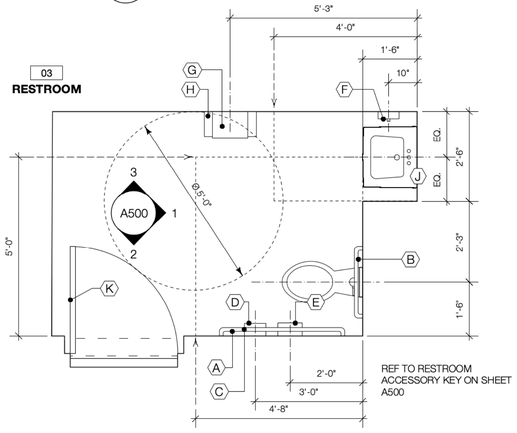
#	ROOM NAME	FLOOR		WALL				CEILING			REMARKS
		MATERIAL	BASE	NORTH	EAST	SOUTH	WEST	MATERIAL	FINISH	HEIGHT	
01	STAGE	CONC / SEAL	N/A	BRICK	-	-	-	WD DECK	STAIN	VARIES	FIBER CEMENT BOARD/PT FOR OVERHANG
02	STORAGE / MECHANICAL	CONC / SEAL	N/A	CMU/PT	CMU/PT	CMU/PT	CMU/PT	FRAMING/PLYWD	PTD	VARIES	
03	RESTROOM	CONC / EPOXY	8/A5.00	CT/PT	CMU/PT	CMU/PT	CMU/PT	FRAMING/PLYWD	PTD	VARIES	
04	PORCH	WOOD / STAIN	N/A	-	BRICK	-	-	OPEN FRAMING	STAIN	VARIES	FIBER CEMENT BOARD/PT FOR LOW OVERHANG
05	LOADING DOCK	CONC / SEAL	N/A	-	-	-	BRICK	OPEN	-	-	FIBER CEMENT BOARD/PT FOR LOW OVERHANG

FINISH NOTES

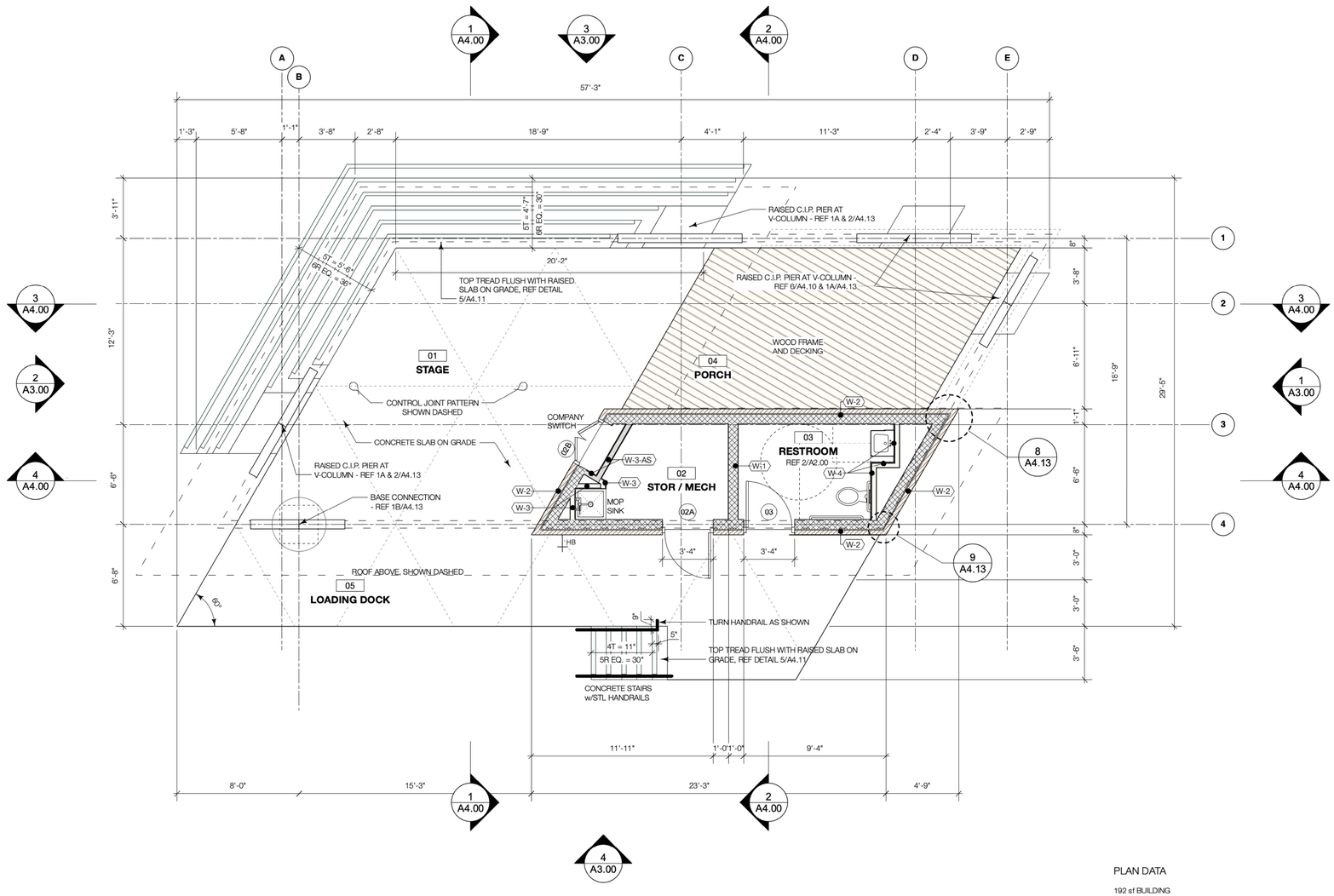
1. PAINT AND STAIN FINISH COLORS TO BE SELECTED BY OWNER & ARCHITECT - SEE SPECIFICATIONS FOR MORE INFORMATION
2. PREP SLAB FOR CONCRETE SEALER / DENSIFIER - SEE SPECIFICATIONS
3. EXPOSED STEEL OR WOOD TO RECEIVE A PROTECTIVE FINISH - SEE SPECIFICATIONS
4. PREP CMU WALLS FOR PAINTED FINISH - SEE SPECIFICATIONS
5. BROADCAST EPOXY FINISH WITH INTEGRAL COVE BASE - SEE SPECIFICATIONS



3 A2.00 **ENLARGED PLAN - Storage / Mechanical 02**
Scale: 1/2" = 1'-0"



2 A2.00 **ENLARGED PLAN - Restroom 03**
Scale: 1/2" = 1'-0"



1 A2.00 **FLOOR PLAN, Bandshell**
Scale: 1/4" = 1'-0"

PLAN DATA

192 sf BUILDING
337 sf STAGE
258 sf LOADING DOCK & STAIRS
219 sf PORCH

TOTAL = ~1006 sf

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Provision Studio, PLLC
53749
REGISTERED ARCHITECTURAL CORPORATION
NORTH CAROLINA
Raleigh, North Carolina

JOHN ROBERT ZELLWEGER
REGISTERED SEAL
17705
ARCHITECT
NORTH CAROLINA

SCALE: 1 inch = 30 ft.

INITIAL PLAN DATE:8/25/2025
REVISIONS:

WR JOB NUMBER 23-0695
DRN: DC/JZ DGN: DC/JZ CKD: DC

FLOOR PLAN
Bandshell

A2.00

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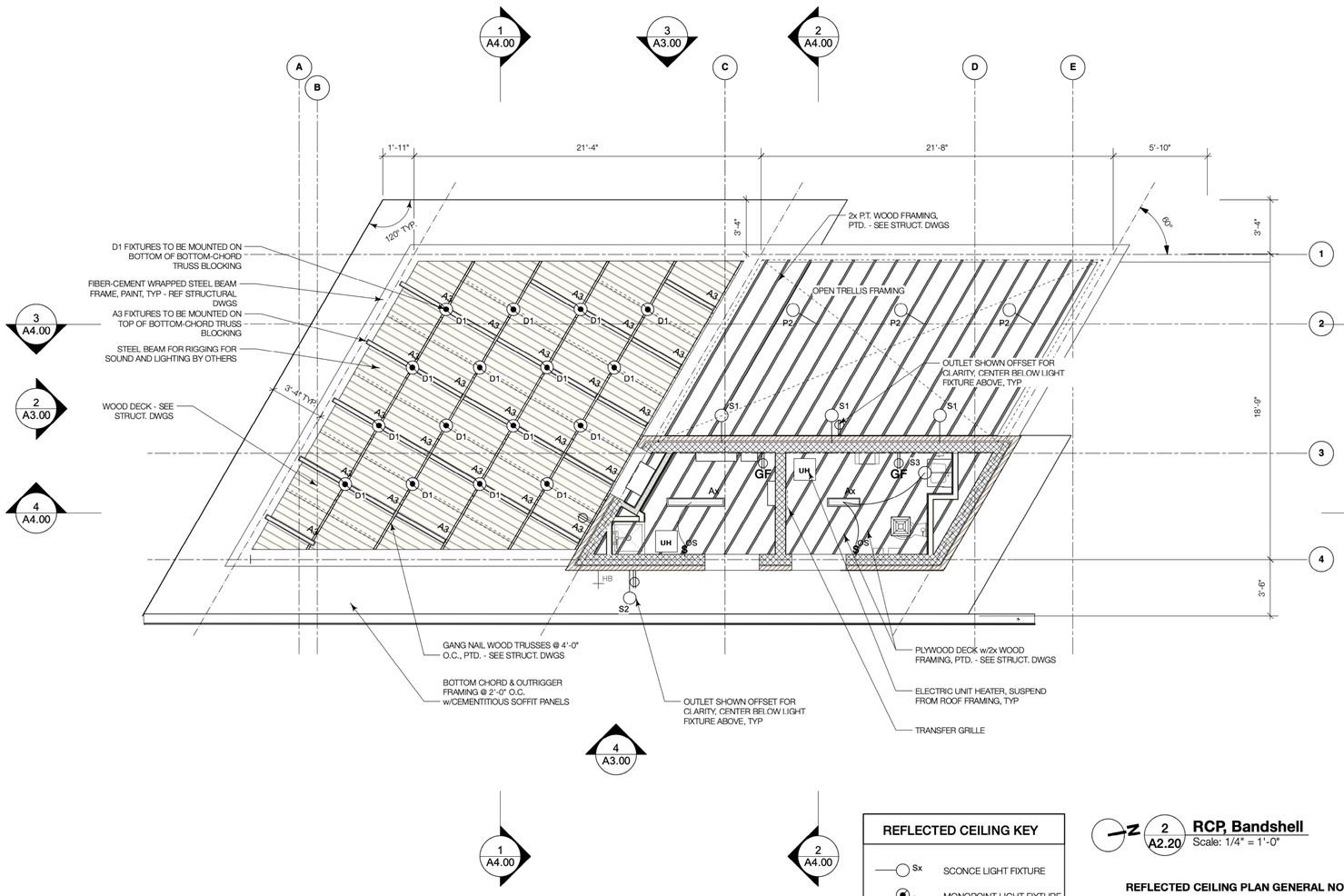

REFLECTED CEILING KEY

Sx	SCONCE LIGHT FIXTURE
Dx	MONOPOINT LIGHT FIXTURE
Ax	4'-0" LINEAR LED FIXTURE
Ax	2'-0" LINEAR LED FIXTURE
A3	LED LINEAR ROPE LIGHT
	EXHAUST FAN

2 A2.20 **RCP, Bandshell**
Scale: 1/4" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES

1. VERIFY PROVIDED AND CRITICAL DIMENSIONS IN FIELD PRIOR TO WORK COMMENCING.
2. WORK TO BE COORDINATED ACROSS ALL DISCIPLINES.
3. COORDINATE FINAL FIXTURE LOCATION WITH ARCHITECT - DO NOT SCALE OFF OF ARCHITECTURAL OR ENGINEERING DRAWINGS
4. ALL FIXTURES MOUNTED TO EXTERIOR MASONRY TO MOUNTED ON A RECESSED J-BOX, POWER FED FROM INSIDE.
5. COORDINATE CONDUIT ROUTING FOR ALL FIXTURES MOUNTED TO ROOF TRUSS ASSEMBLY ABOVE STAGE

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JOHN ROBERT ZELLWEGER — Registered Seal — 17705 — Architect — North Carolina

SCALE: 1 inch = 30 ft.

INITIAL PLAN DATE: 8/25/2025
REVISIONS:

WR JOB NUMBER	23-0695
DRN:DC/JZ	DGN:DC/JZ CKD: DC

RCP
Bandshell

A2.20

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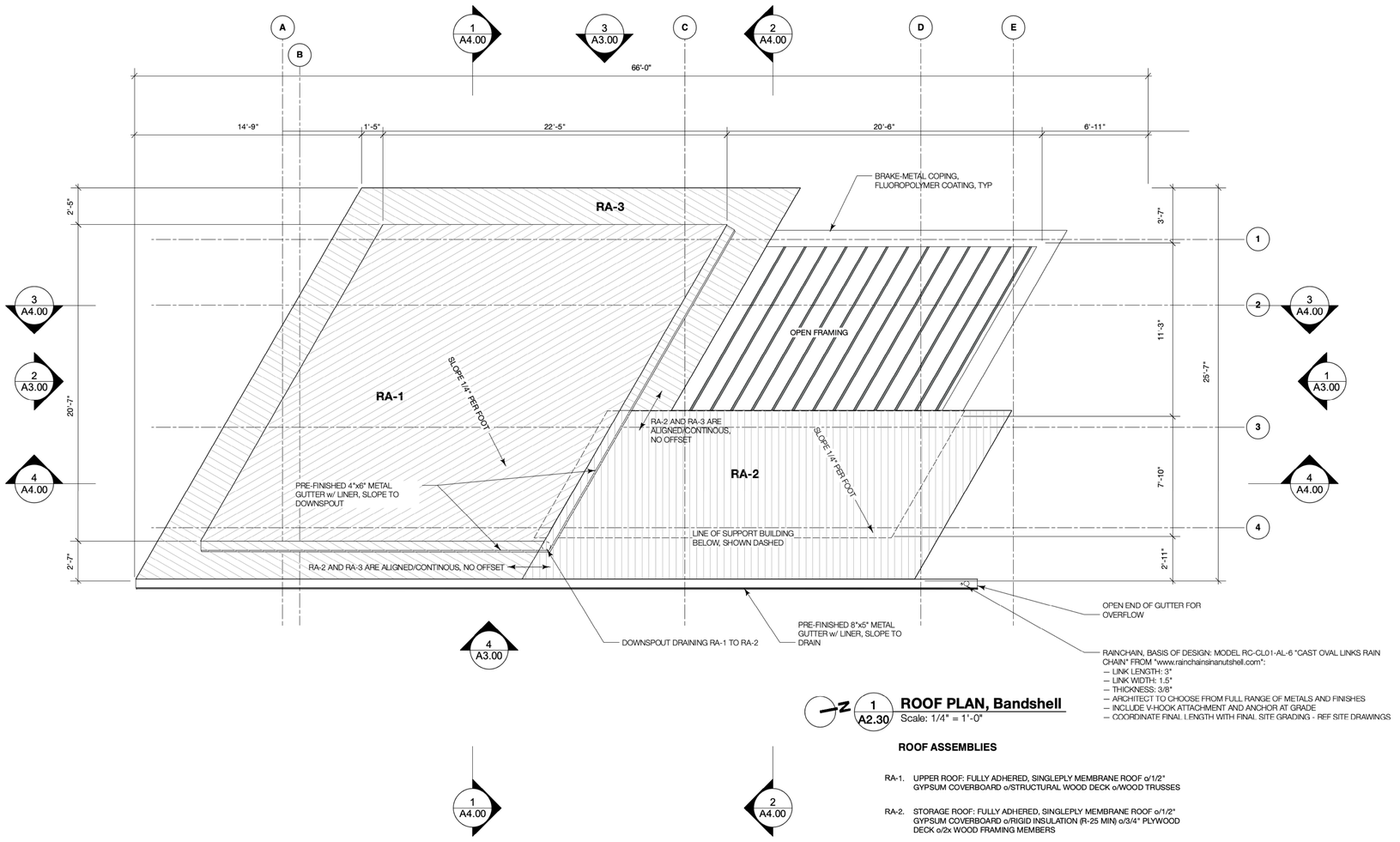

1 A2.30 ROOF PLAN, Bandshell

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

ROOF ASSEMBLIES

RA-1. UPPER ROOF: FULLY ADHERED, SINGLEPLY MEMBRANE ROOF o/1/2" GYPSUM COVERBOARD o/STRUCTURAL WOOD DECK o/WOOD TRUSSES

RA-2. STORAGE ROOF: FULLY ADHERED, SINGLEPLY MEMBRANE ROOF o/1/2" GYPSUM COVERBOARD o/RIGID INSULATION (R-25 MIN) o/3/4" PLYWOOD DECK o/2x WOOD FRAMING MEMBERS

RA-3. OUTRIGGER ROOF: FULLY ADHERED, SINGLEPLY MEMBRANE ROOF o/ 1/2" GYPSUM COVERBOARD o/3/4" PLYWOOD DECK o/2x WOOD FRAMING MEMBERS

ROOF GUTTER/DOWNSPOUT CALCULATION SUMMARY

Roof Area	Area	Slope	Semi-circular Gutter Size*	Gutter Size	Notes
RA-1	461sf	3:12	5"ø (19.63 sqin)	4"x6" (24 sqin)	4" Roof Leader
RA-2	280sf	3:12	7"ø (38.48 sqin)	8"x5" (40 sqin)	Continuous Gutter serves RA-2 and RA-3
RA-3	229sf	3:12	7"ø (38.48 sqin)	8"x5" (40 sqin)	Continuous Gutter serves RA-2 and RA-3
Total	970sf				

*Per NCSPC Table 1106.6

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JOHN ROBERT ZELLWEGER — Registered Seal — 31705 — Architect — North Carolina

0 15 30
SCALE: 1 inch = 30 ft.

INITIAL PLAN DATE: 8/25/2025
REVISIONS:

WR JOB NUMBER 23-0895
DRN: DC/JZ DGN: DC/JZ CKD: DC

ROOF PLAN
Bandshell

A2.30

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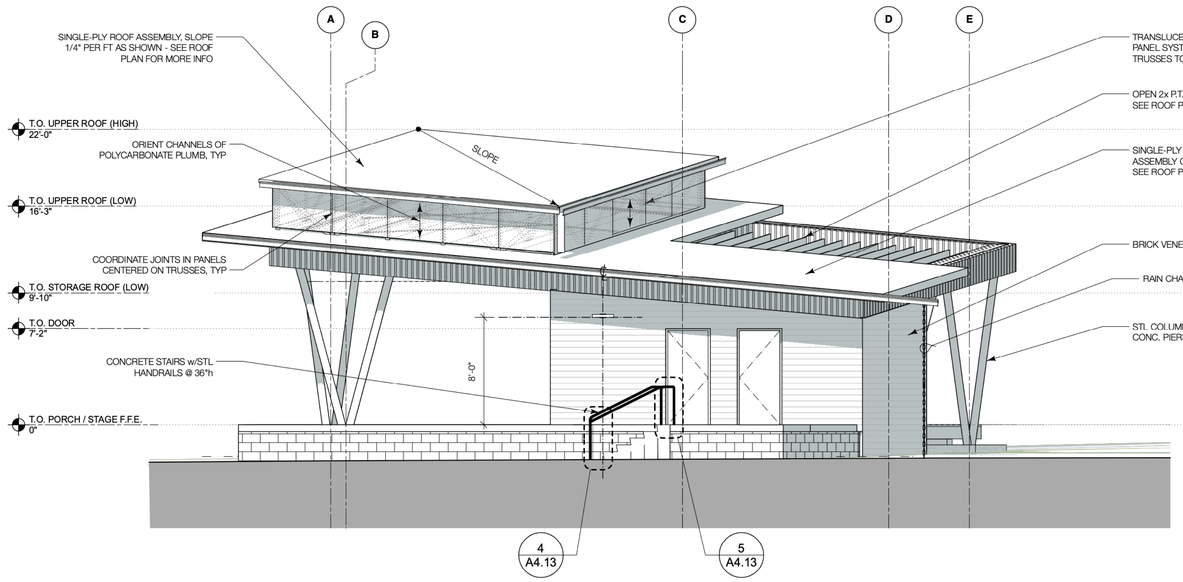
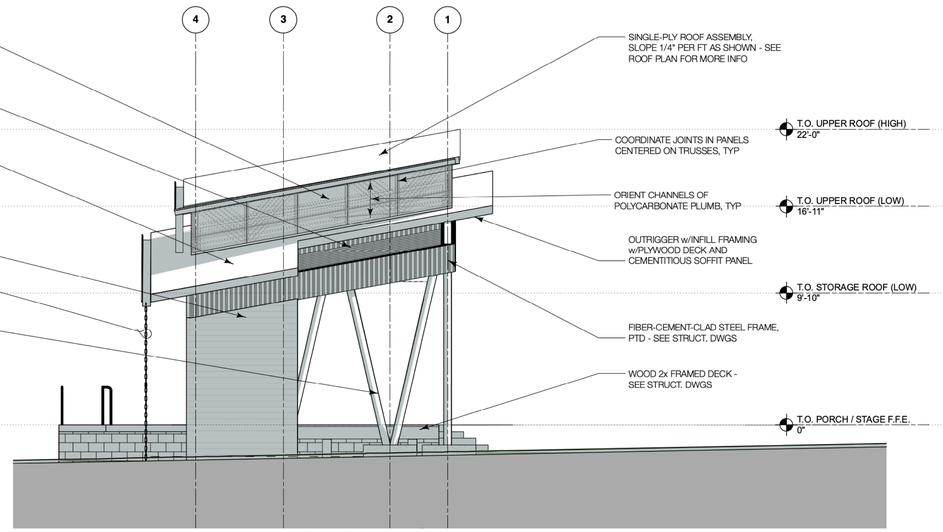
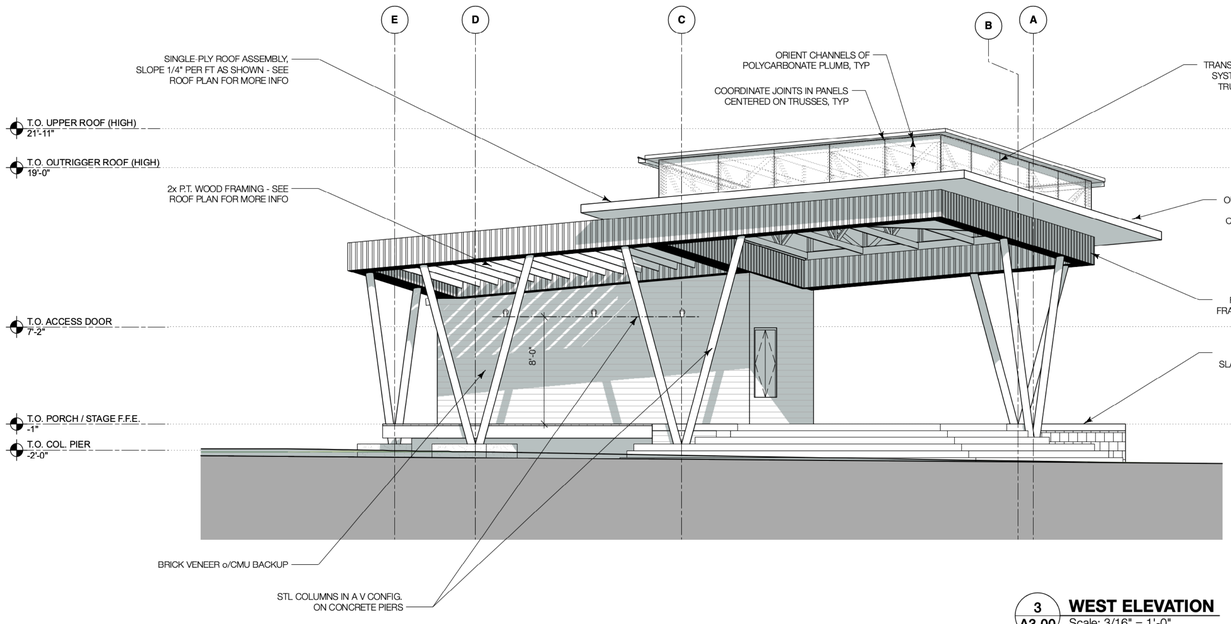


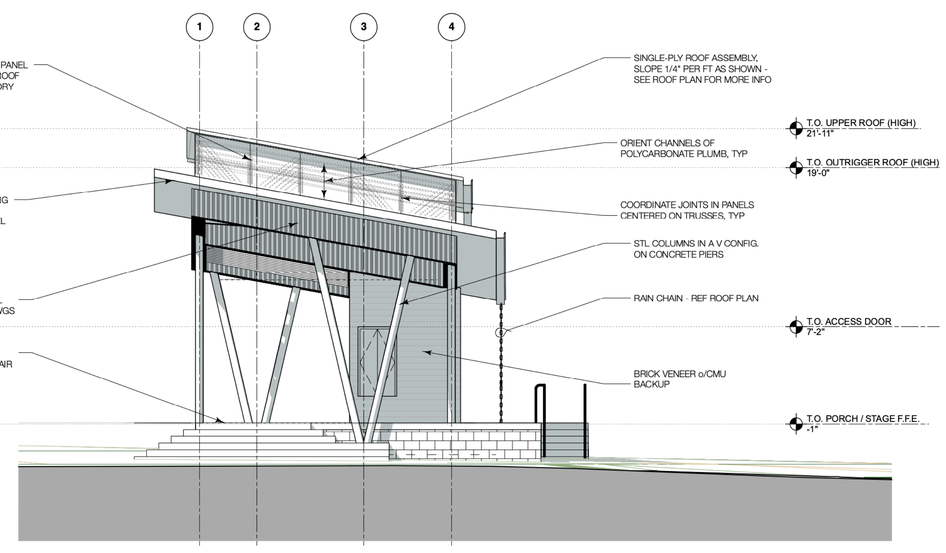
4 **A3.00** **EAST ELEVATION**
Scale: 3/16" = 1'-0"



1 **A3.00** **NORTH ELEVATION**
Scale: 3/16" = 1'-0"



3 **A3.00** **WEST ELEVATION**
Scale: 3/16" = 1'-0"



2 **A3.00** **SOUTH ELEVATION**
Scale: 3/16" = 1'-0"

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REGISTERED SEAL
23705
ARCHITECT
NORTH CAROLINA

0 15 30
SCALE: 1 inch = 30 ft.

INITIAL PLAN DATE: 8/25/2025
REVISIONS:

WR JOB NUMBER 23-0895
DRN: DC/JZ DGN: DC/JZ CKD: DC

ELEVATIONS
Bandshell

A3.00

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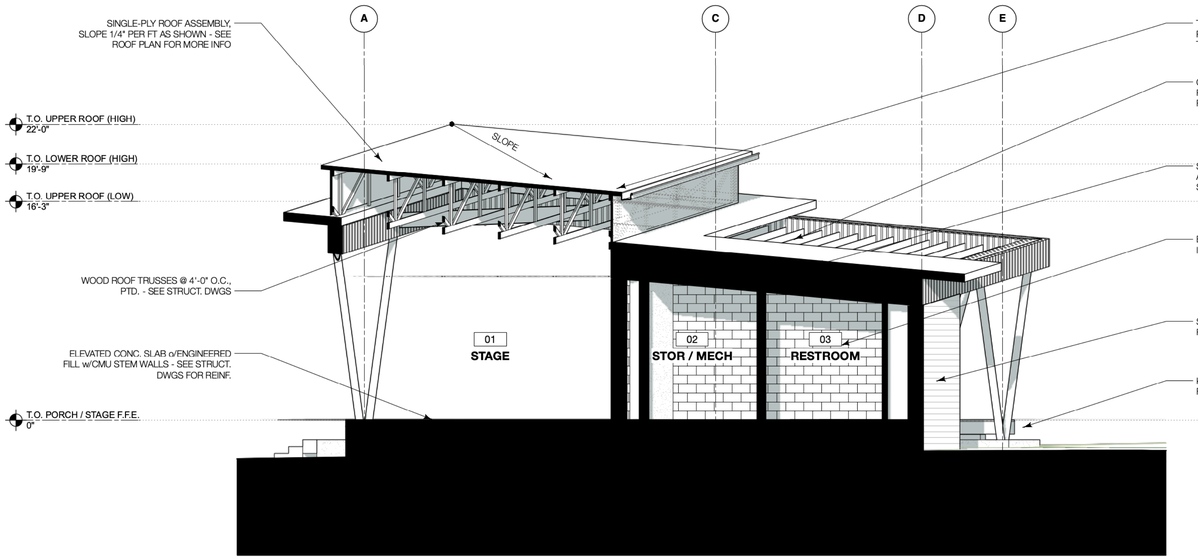
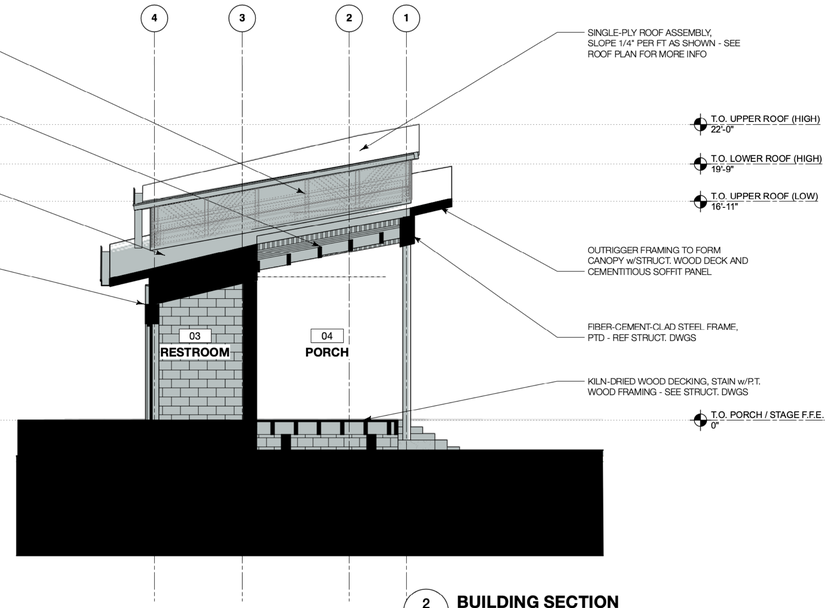
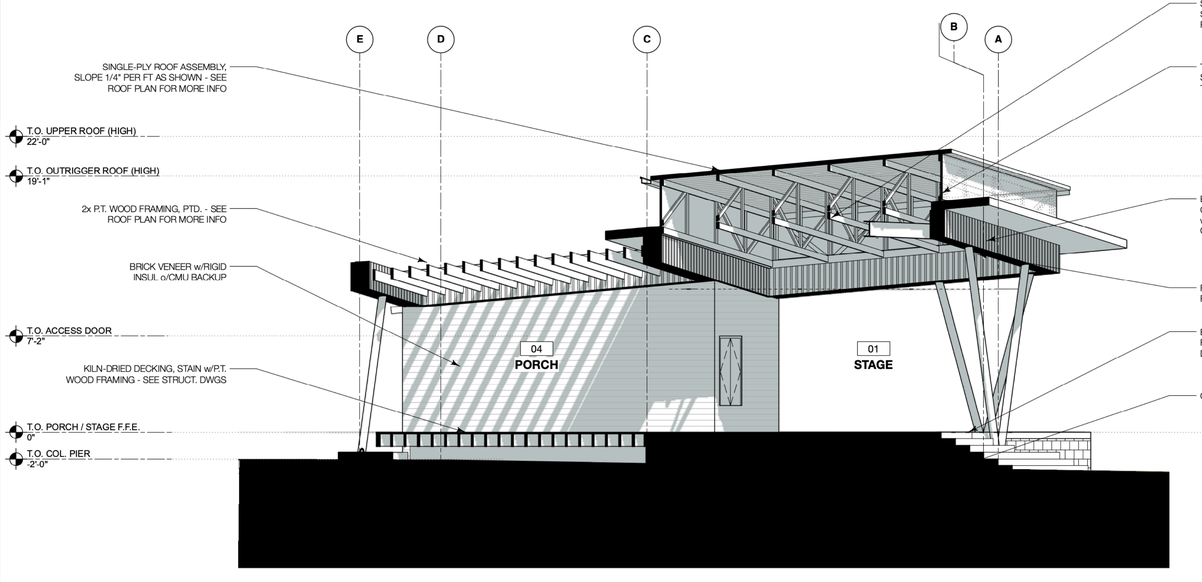


4 A4.00 **BUILDING SECTION**
Scale: 3/16" = 1'-0"



2 A4.00 **BUILDING SECTION**
Scale: 3/16" = 1'-0"



3 A4.00 **BUILDING SECTION**
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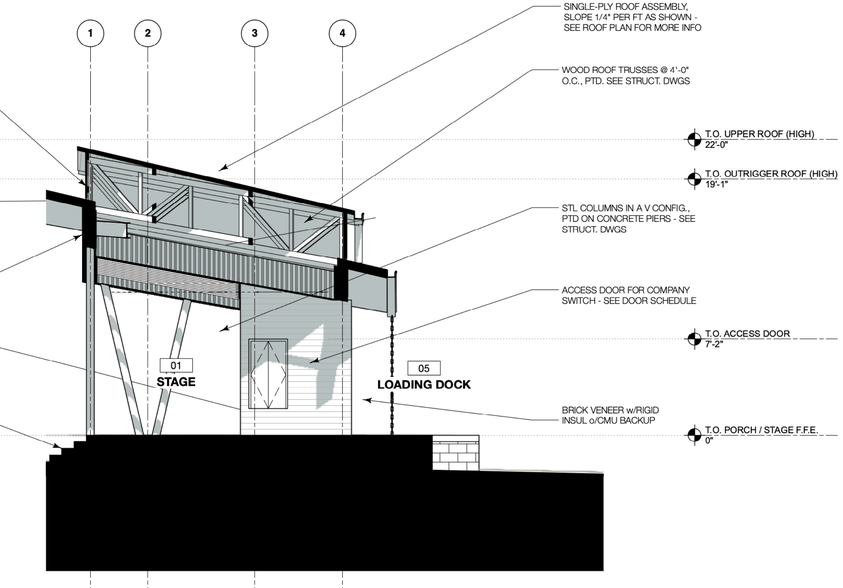

1 A4.00 **BUILDING SECTION**
Scale: 3/16" = 1'-0"

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Provision Studio, PLLC — Registered Architectural Corporation — 53749 — Raleigh, North Carolina

JOHN ROBERT ZELLWEGER — REGISTERED SEAL 17105 — ARCHITECT — NORTH CAROLINA

0 15 30
SCALE: 1 inch = 30 ft.

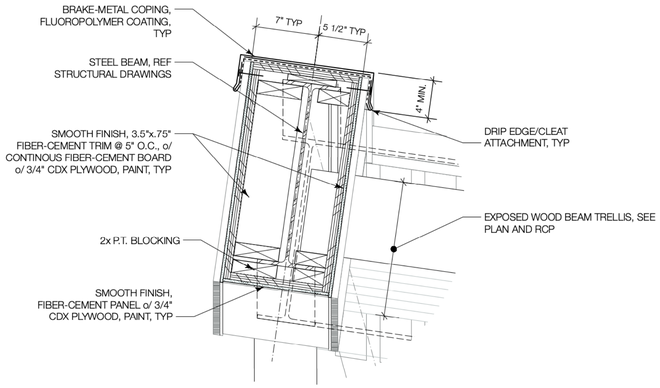
INITIAL PLAN DATE: 8/25/2025
REVISIONS:

WR JOB NUMBER 23-0695
DRN: DC/JZ DGN: DC/JZ CKD: DC

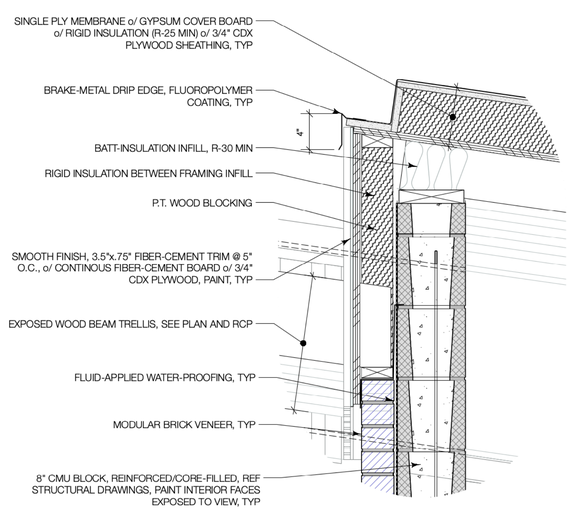
BUILDING SECTIONS
Bandshell

A4.00

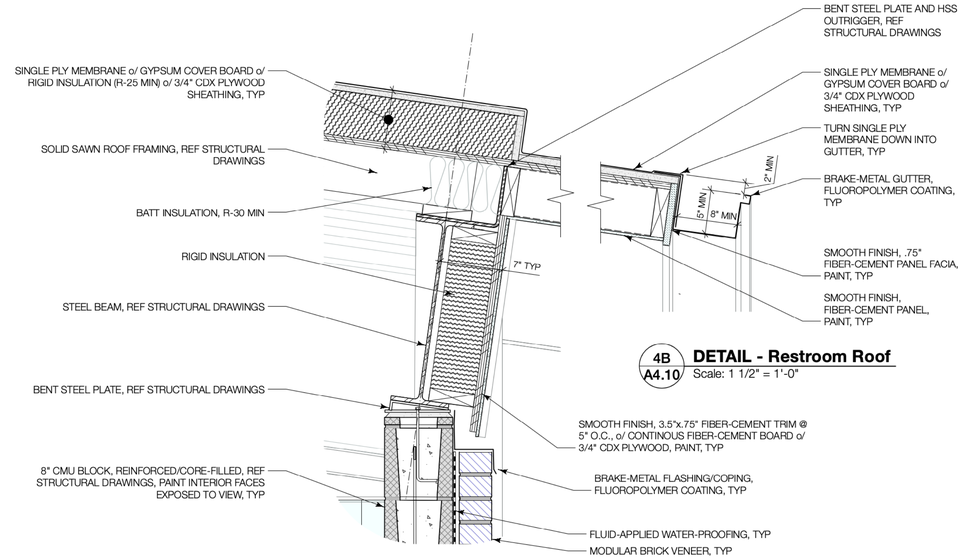
J:\23-0695-Whiteville - Design Services for Community Space\CAD_CUT\Arch (provision)\2024-04-19_TitleBlockWhitevilleCommunitySpace_TitleBlock.rvtp - Monday, June 13, 2022 7:57:48 AM - JDOLAN



8 A4.10 DETAIL - Perimeter Beam
Scale: 1 1/2" = 1'-0"

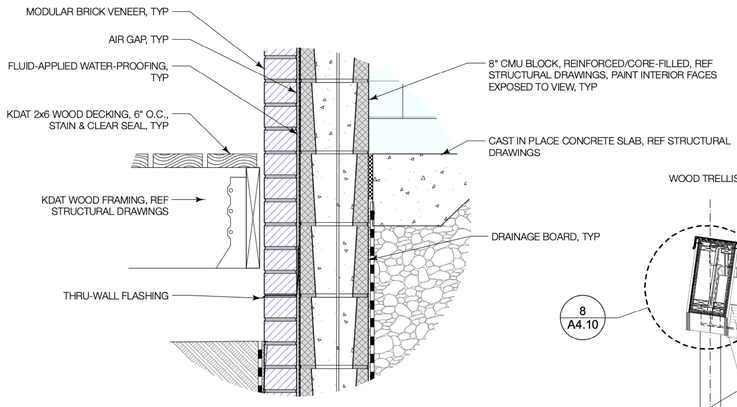


5 A4.10 DETAIL - Restroom Roof
Scale: 1 1/2" = 1'-0"

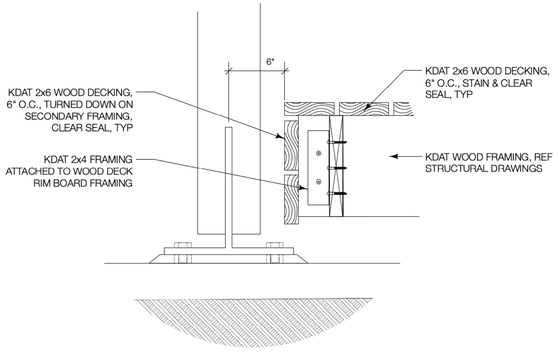


4B A4.10 DETAIL - Restroom Roof
Scale: 1 1/2" = 1'-0"

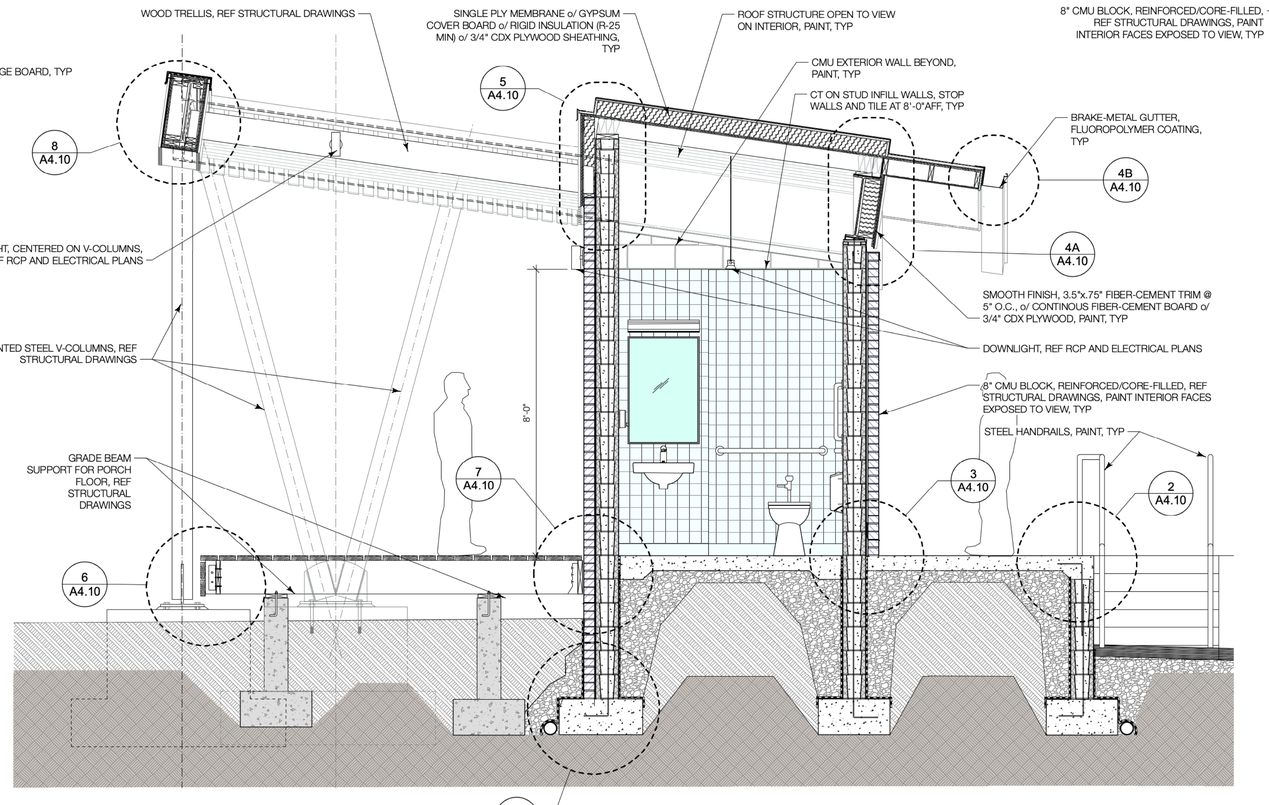
4A A4.10 DETAIL - Restroom Roof
Scale: 1 1/2" = 1'-0"



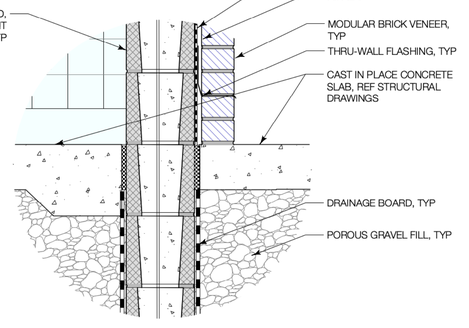
7 A4.10 DETAIL - Porch Floor
Scale: 1 1/2" = 1'-0"



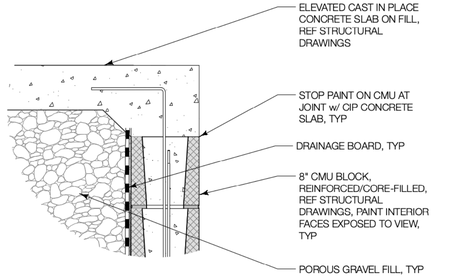
6 A4.10 DETAIL - Porch Floor / Column Base
Scale: 1 1/2" = 1'-0"



1 A4.10 ENLARGED SECTION
Scale: 1/2" = 1'-0"



3 A4.10 DETAIL - Restroom Wall
Scale: 1 1/2" = 1'-0"



2 A4.10 DETAIL - Slab at Foundation
Scale: 1 1/2" = 1'-0"

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Provision Studio, PLLC — Registered Architecture Company — 53749 — North Carolina — Raleigh, North Carolina

JOHN ROBERT ZELLWEGER — Registered Seal — 37105 — Architect — North Carolina

SCALE: 1 inch = 30 ft.

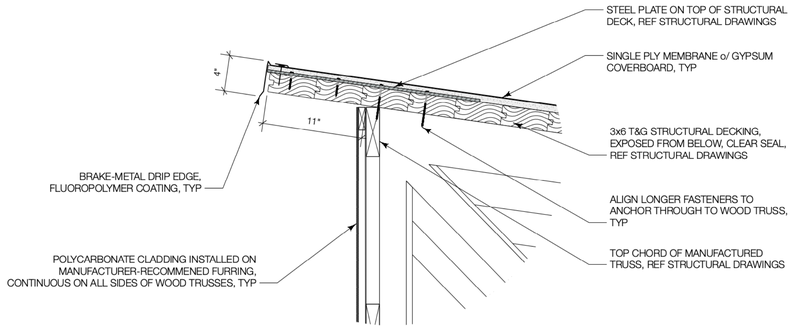
INITIAL PLAN DATE: 8/25/2025
REVISIONS:

WR JOB NUMBER 23-0695
DRN: DC/JZ DGN: DC/JZ CKD: DC

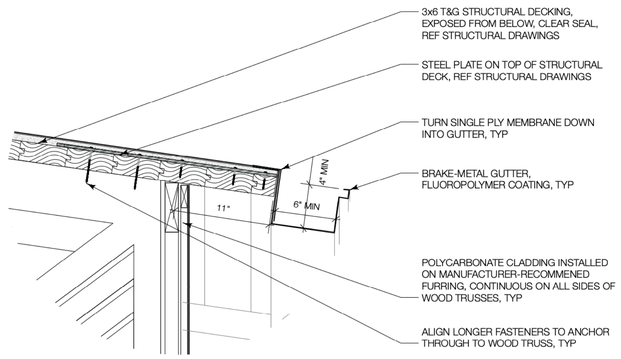
BUILDING SECTIONS
Bandshell

A4.10

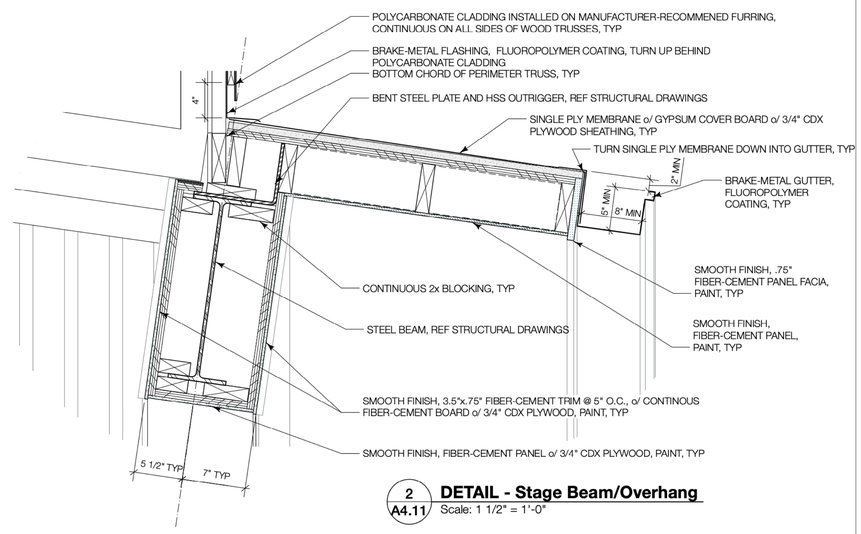
EST. 1960



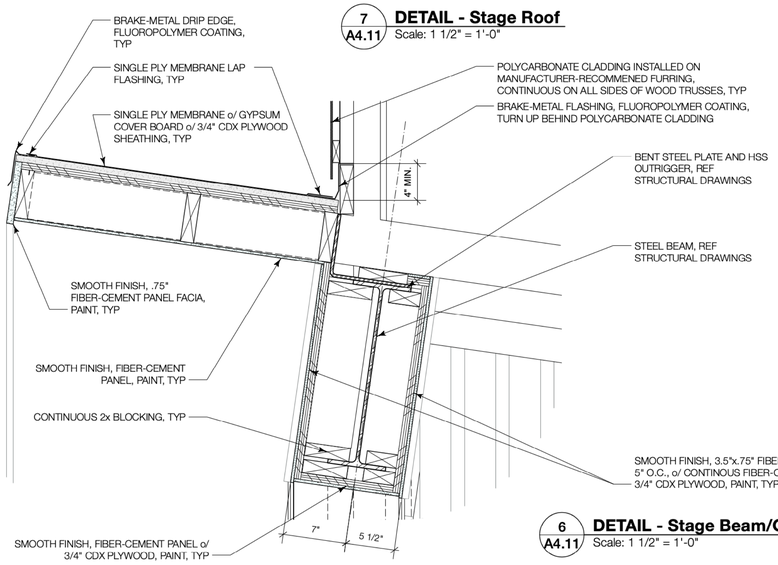
7 A4.11 DETAIL - Stage Roof
Scale: 1 1/2" = 1'-0"



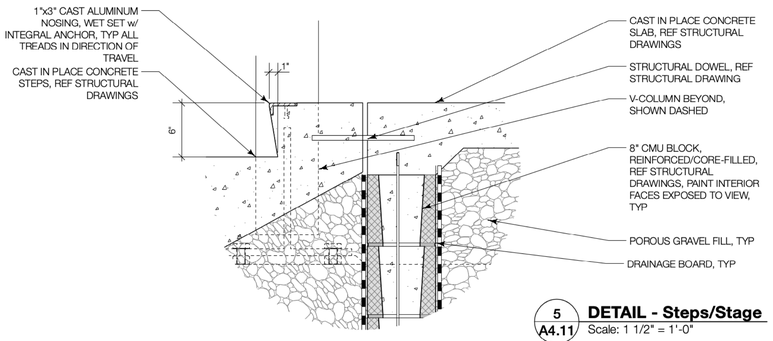
3 A4.11 DETAIL - Stage Roof/Gutter
Scale: 1 1/2" = 1'-0"



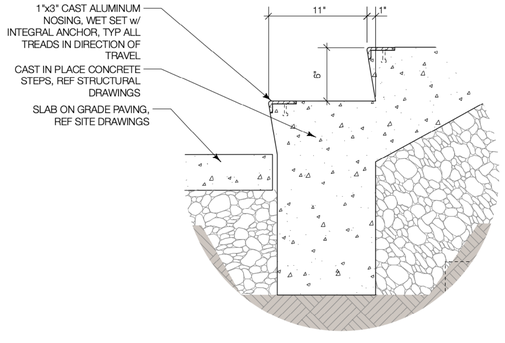
2 A4.11 DETAIL - Stage Beam/Overhang
Scale: 1 1/2" = 1'-0"



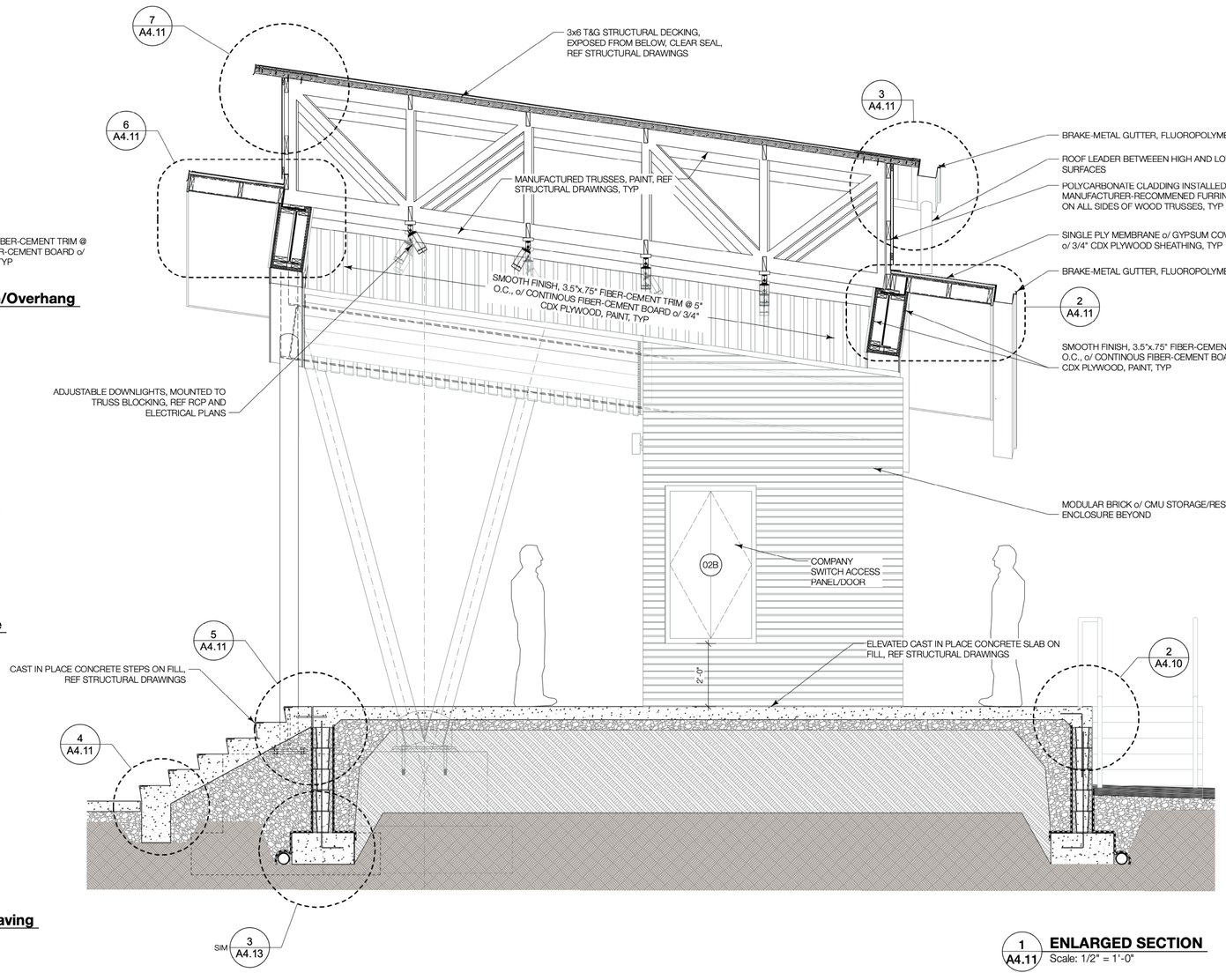
6 A4.11 DETAIL - Stage Beam/Overhang
Scale: 1 1/2" = 1'-0"



5 A4.11 DETAIL - Steps/Stage
Scale: 1 1/2" = 1'-0"



4 A4.11 DETAIL - Steps/Site Paving
Scale: 1 1/2" = 1'-0"



1 A4.11 ENLARGED SECTION
Scale: 1/2" = 1'-0"

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Registered Architecture Company
53749
Raleigh, North Carolina

JOHN ROBERT ZELLWEGER
REGISTERED SEAL
19705
ARCHITECT
NORTH CAROLINA

SCALE: 1 inch = 30 ft.

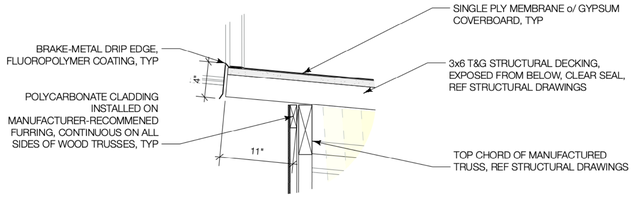
INITIAL PLAN DATE: 8/25/2025
REVISIONS:

WR JOB NUMBER 23-0695
DRN: DC/JZ DGN: DC/JZ CKD: DC

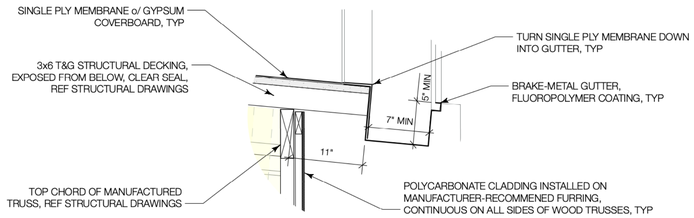
BUILDING SECTIONS
Bandshell

A4.11

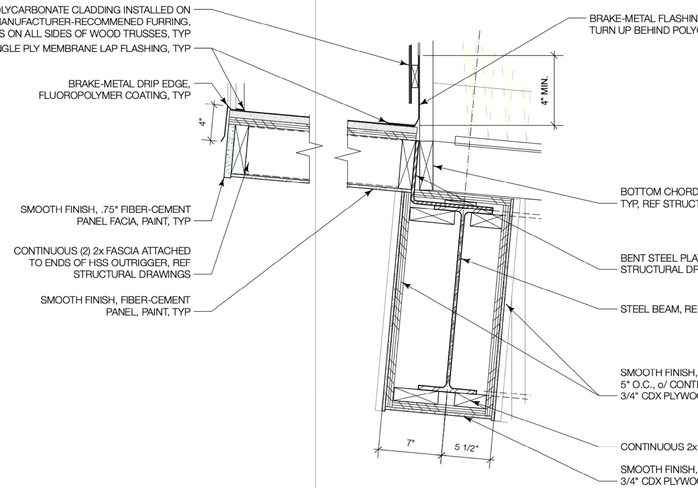
J:\23\0695 Whiteville - Design Services for Community Space\CAD_CUT\Arch (provision)\2024.04.25_TitleBlockWhitevilleCommunityPlans_TitleBlock.dwg- Monday, June 13, 2022 7:57:48 AM - JDOLAN



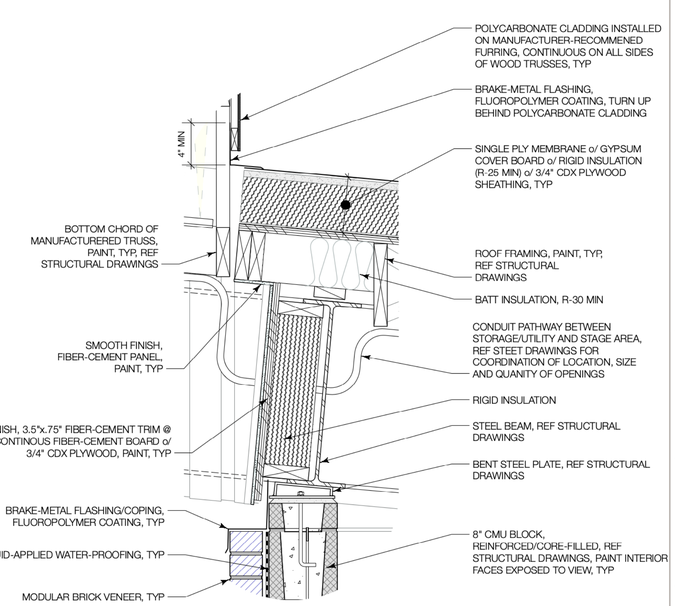
5 A4.12 **DETAIL - Stage Overhang**
Scale: 1 1/2" = 1'-0"



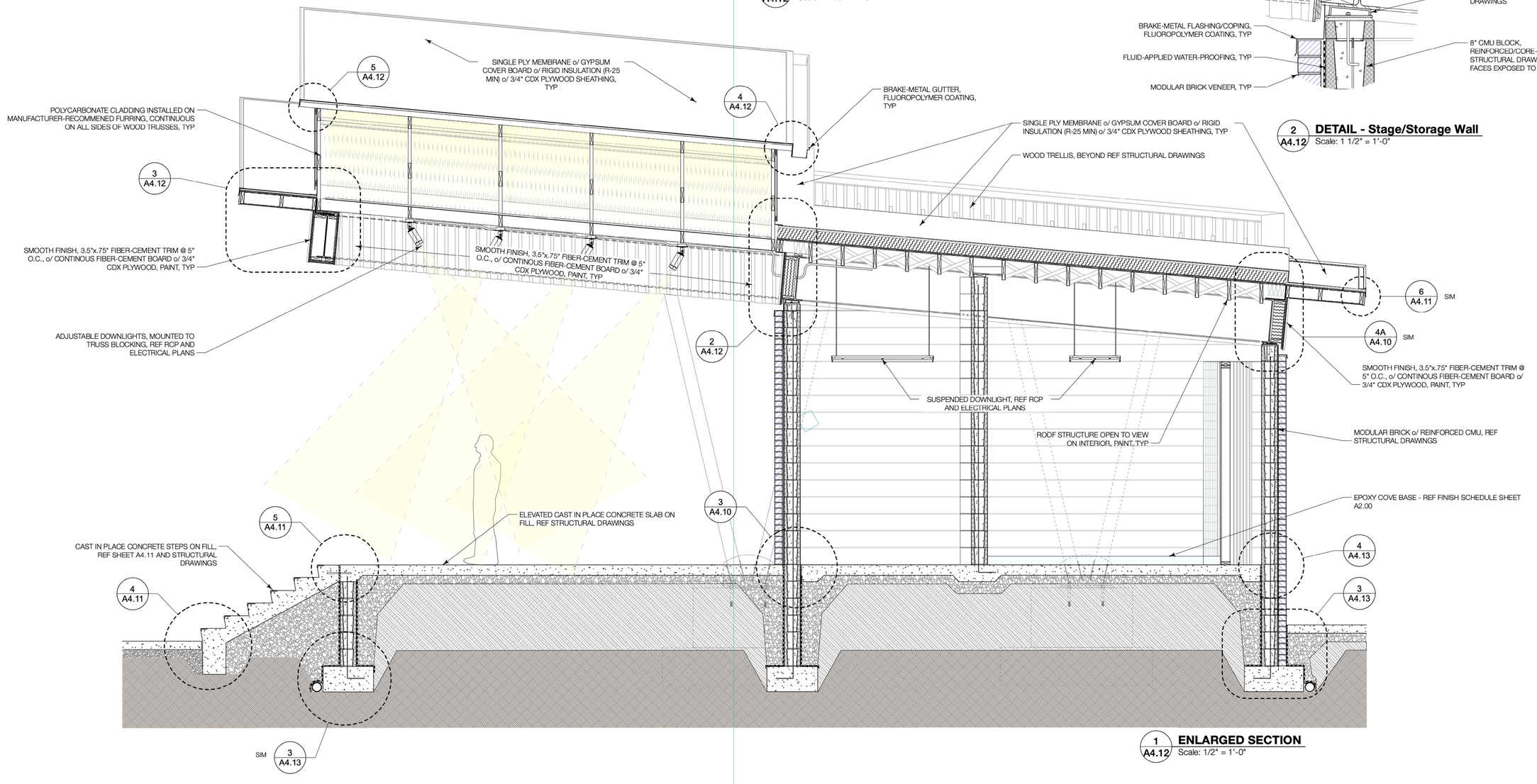
4 A4.12 **DETAIL - Stage Overhang**
Scale: 1 1/2" = 1'-0"



3 A4.12 **DETAIL - Stage Beam Overhang**
Scale: 1 1/2" = 1'-0"



2 A4.12 **DETAIL - Stage/Storage Wall**
Scale: 1 1/2" = 1'-0"



1 A4.12 **ENLARGED SECTION**
Scale: 1/2" = 1'-0"

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REGISTERED
SEAL
17705
ARCHITECT
NORTH CAROLINA

SCALE: 1 inch = 30 ft.

INITIAL PLAN DATE: 8/25/2025
REVISIONS:

WR JOB NUMBER 23-0695
DRN: DC/JZ DGN: DC/JZ CKD: DC

BUILDING SECTIONS
Bandshell

A4.12

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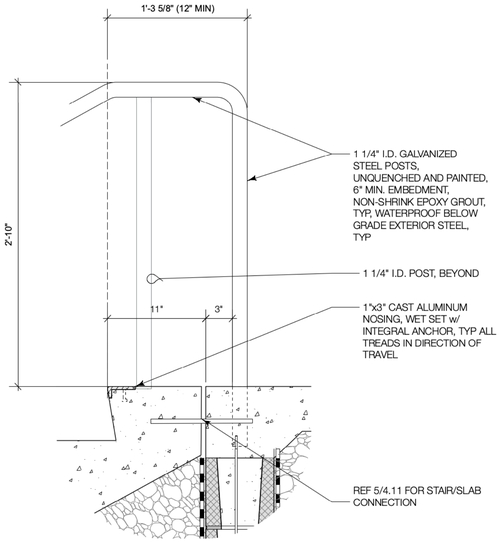
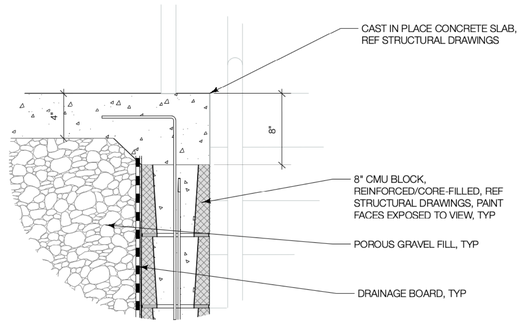
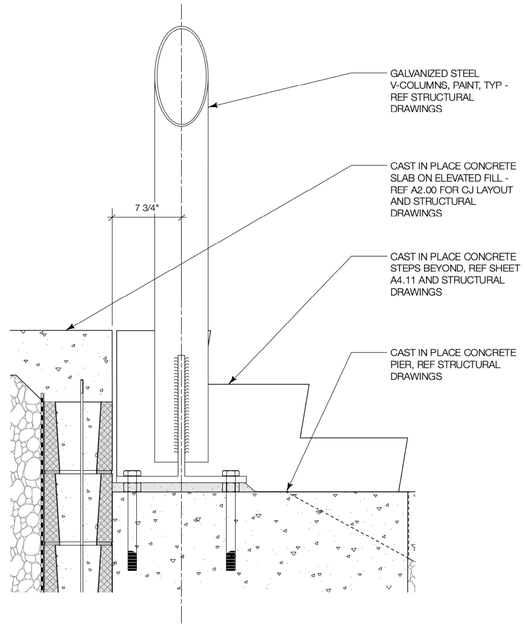


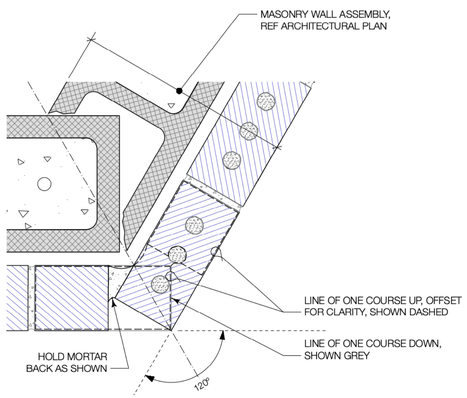
7 / A4.13 ENLARGED SECTION
Scale: 1 1/2" = 1'-0"



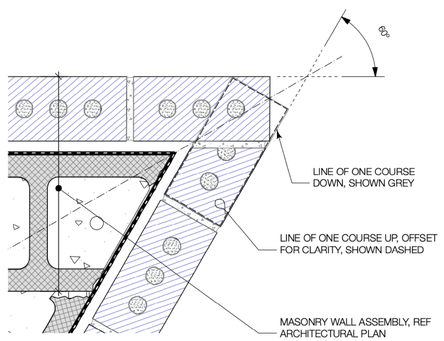
5 / A4.13 DETAIL - Elevated Slab Edge
Scale: 1 1/2" = 1'-0"



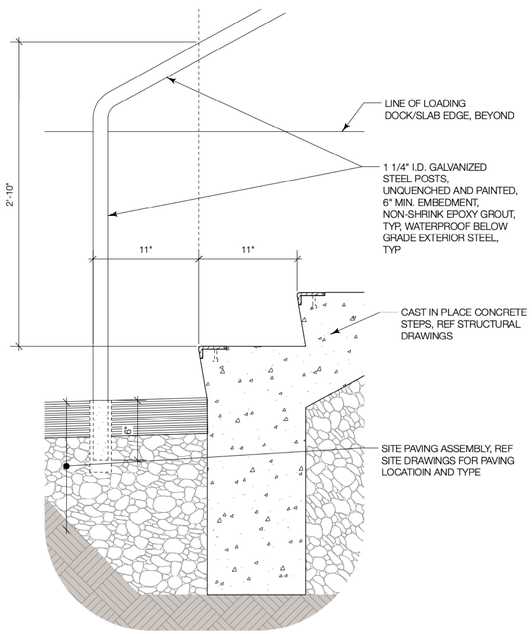
2 / A4.13 DETAIL - V-Column at Stage Edge
Scale: 1 1/2" = 1'-0"



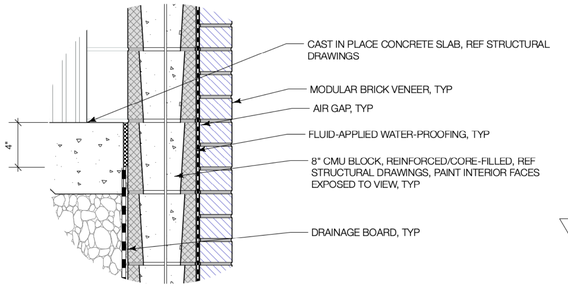
9 / A4.13 PLAN DETAIL - 120° Corner
Scale: 3" = 1'-0"



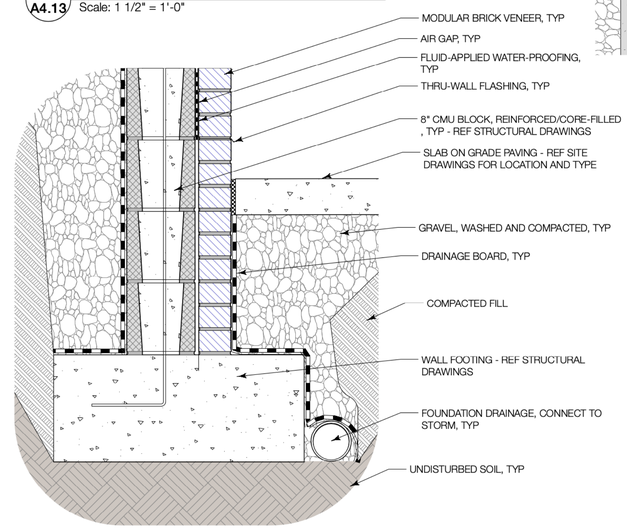
8 / A4.13 PLAN DETAIL - 60° Corner
Scale: 3" = 1'-0"



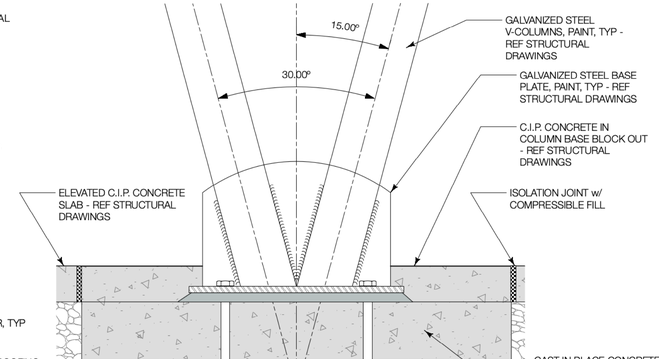
6 / A4.13 ENLARGED SECTION
Scale: 1 1/2" = 1'-0"



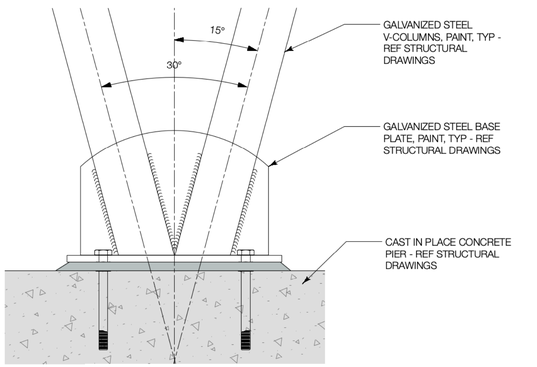
4 / A4.13 DETAIL - Interior Slab at Exterior Wall
Scale: 1 1/2" = 1'-0"



3 / A4.13 DETAIL - Masonry Wall Footing
Scale: 1 1/2" = 1'-0"



1B / A4.13 DETAIL - Typical Pier/Column
Scale: 1 1/2" = 1'-0"



1A / A4.13 DETAIL - Typical Pier/Column
Scale: 1 1/2" = 1'-0"

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0 15 30
SCALE: 1 inch = 30 ft.

INITIAL PLAN DATE: 8/25/2025
REVISIONS:

WR JOB NUMBER 23-0695
DRN: DC/JZ DGN: DC/JZ CKD: DC

BUILDING SECTIONS

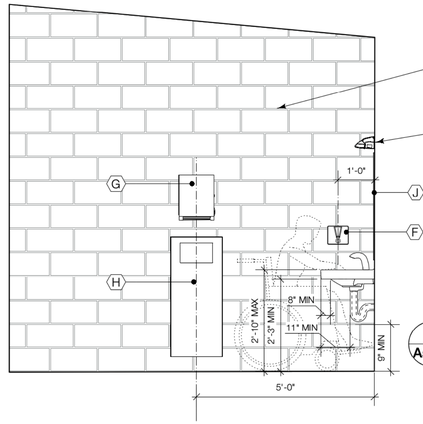
Bandshell

A4.13

A25\0695-Whiteville - Design Services for Community Space\CAD_OUT\Arch (provision)\2025-04-25_TitleBlockWhitevilleCommunitySpace_TitleBlock.dwg, Monday, June 15, 2026 7:57:18 AM, JDOLAN

RESTROOM ACCESSORIES

#	DESCRIPTION	BASIS OF DESIGN	MODEL	NOTES
A	GRAB BAR, 42"	BOBRICK	B-5906x42	STAINLESS, 33"-36" MOUNTING AFF
B	GRAB BAR, 36"	BOBRICK	B-5906x36	STAINLESS, 33"-36" MOUNTING AFF
C	GRAB BAR, 18" VERTICAL	BOBRICK	B-5906x18	STAINLESS, 33"-36" MOUNTING AFF
D	TOILET PAPER HOLDER	BOBRICK	B-4288	STAINLESS, T.O. UNIT = 28" MAX MOUNTING AFF
E	SANITARY NAPKIN DISPOSAL	BOBRICK	B-35139	STAINLESS, T.O. UNIT = 29" MAX MOUNTING AFF
F	SOAP DISPENSER	BOBRICK	818615	STAINLESS, T.O. UNIT = 49" MAX MOUNTING AFF
G	PAPER TOWEL DISPENSER	BOBRICK	B-2860	STAINLESS, T.O. UNIT = 63 1/4" MAX MOUNTING AFF
H	WASTE RECEPTACLE	BOBRICK	B 35649	STAINLESS, T.O. UNIT = 53 1/4" MAX MOUNTING AFF
J	MIRROR	BOBRICK	B-165 2436	24"x36", STEEL CHANNEL FRAME
K	COAT HOOK	BOBRICK	B-211	2 HOOKS (HI/LO) ON BACK OF DOOR



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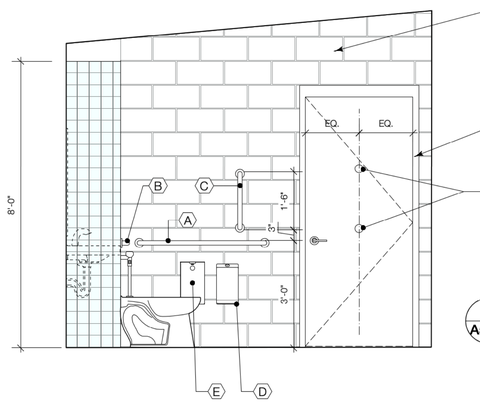

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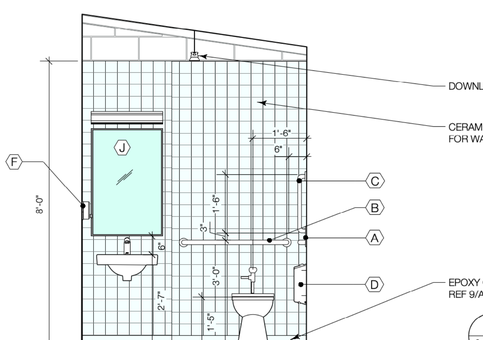
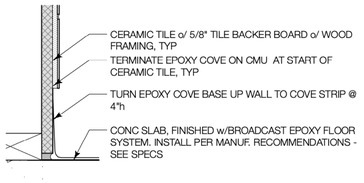
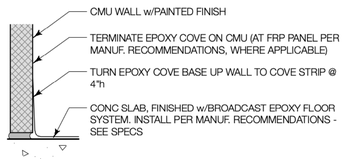


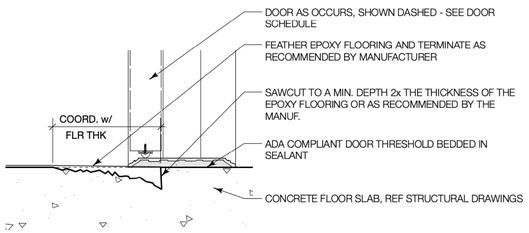
1 A5.00 ENLARGED SECTION
Scale: 1/2" = 1'-0"



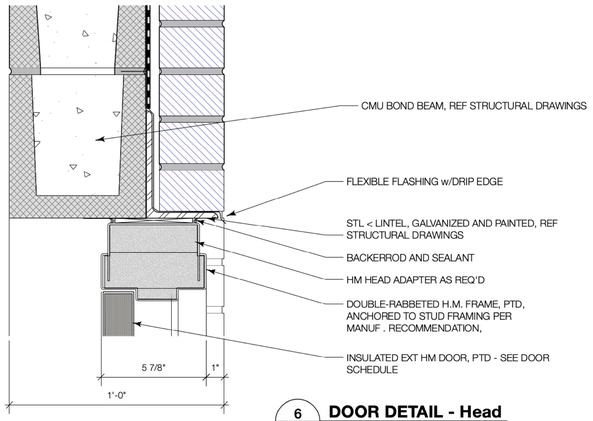
9 A5.00 BASE DETAIL, Epoxy Cove
Scale: 3" = 1'-0"



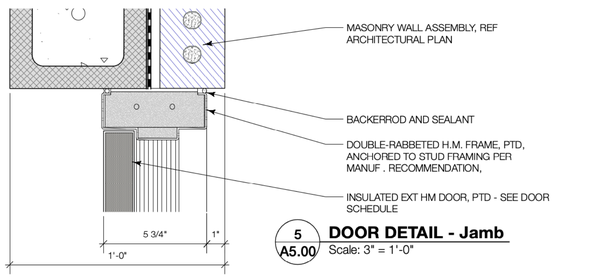
8 A5.00 BASE DETAIL, Epoxy Cove
Scale: 3" = 1'-0"



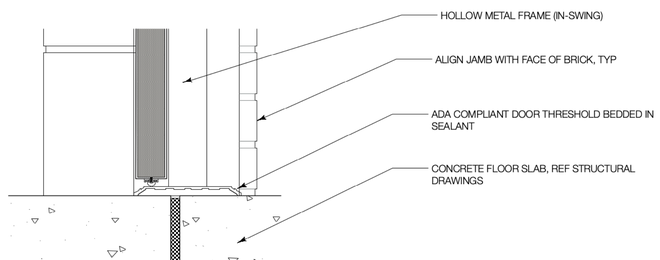
7 A5.00 DETAIL, Epoxy Threshold
Scale: 3" = 1'-0"



6 A5.00 DOOR DETAIL - Head
Scale: 3" = 1'-0"



5 A5.00 DOOR DETAIL - Jamb
Scale: 3" = 1'-0"



4 A5.00 DOOR DETAIL - Sill
Scale: 3" = 1'-0"

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CONFORMED CONSTRUCTION DOCUMENTS

WHITEVILLE COMMUNITY SPACE

907 MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

Provision Studio, PLLC
REGISTERED ARCHITECTURAL COMPANY
53749
NORTH CAROLINA
Raleigh, North Carolina

JOHN ROBERT ZELLWEGER
REGISTERED
SEAL
17705
ARCHITECT
NORTH CAROLINA

0 15 30
SCALE: 1 inch = 30 ft.

INITIAL PLAN DATE: 8/25/2025
REVISIONS:

WR JOB NUMBER 23-0695
DRN:DC/JZ DGN:DC/JZ CKD: DC

INT. ELEVATIONS
Head/Jamb/Sill Details
Bandshell

A5.00

JOB:0695-Whiteville - Design Services for Community Space\CAD_OUT\Arch (provision)\2024.04.15_TheBlock-WhitevilleCommunitySpace_TheBlock.dwg Monday, June 13, 2022 7:57:48 AM - JDOLAN

DRAWINGS LEGEND

GENERAL ANNOTATIONS

SECTIONS

SECTION/DETAIL NUMBER/LETTER
= SECTION/DETAIL MARK
SHEET NUMBER WHERE SECTION/DETAIL MARK IS DRAWN

SECTION/DETAIL NUMBER/LETTER
= SECTION/DETAIL MARK
SHEET NUMBER WHERE SECTION/DETAIL MARK IS DRAWN
SHEET NUMBER WHERE SECTION/DETAIL MARK IS CUT

COLUMNS

GRID = COLUMN GRID MARK

X = EXISTING COLUMN GRID MARK

GENERAL PLANS

X = PLAN KEY NOTE MARK

± = FIELD VERIFY

SL = DIRECTION OF SLOPE

= CHANGE IN ELEVATION

= CHANGE IN SLOPE

SHALLOW FOUNDATIONS

= PIPE CROSSING FOOTING

= SLAB-ON-GRADE JOINT

WFX = WALL FOOTING MARK

CFX = COLUMN FOOTING MARK

FLOOR AND ROOF FRAMING

RTU-X XXXX# = MECHANICAL UNIT SUPPORTED ABOVE FRAMING (WEIGHT IN POUNDS) - COORD W/ MECH DWGS

RTU-X XXXX# = MECHANICAL UNIT SUPPORTED BELOW FRAMING (WEIGHT IN POUNDS) - COORD W/ MECH DWGS

= FLOOR / ROOF OPENING

= WARP LINE OF ROOF DECK

= HORIZONTAL BRIDGING

= CROSS BRIDGING

ELEVATIONS

FOUNDATIONS

(-X'-X") = TOP OF FOOTING ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"

(-X'-X") = TOP OF PILE CAP / GRADE BEAM ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"

<-X'-X"> = TOP OF EXISITNG FOOTING ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"

X'-X" = TOP OF SLAB ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"

FLOORS AND ROOF

BOD = +X'-X" = BOTTOM OF DECK ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"

TOS = +X'-X" = TOP OF STEEL ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"

BOS = +X'-X" = BOTTOM OF STEEL ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"

TOM = +X'-X" = TOP OF MASONRY ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"

TBE = +X'-X" = TRUSS BEARING ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"

STEEL

CONNECTIONS

= MOMENT CONNECTION

= AXIAL CONNECTION

= FULL DEPTH STIFFENER CONNECTION

= JOIST BOTTOM CHORD EXTENSION

= BEAM BOTTOM FLANGE BRACE

= BEAM SPLICE

KB = KNUCKLED BEAM

CONCRETE

WALLS

= BEARING WALL EXTENDING ABOVE FLOOR / ROOF

= BEARING WALL TERMINATING BELOW FLOOR / ROOF

= EXTERIOR WALL TERMINATING BELOW FLOOR / ROOF

= CONCRETE SHEARWALL

= CONCRETE FIREWALL

W1 = WALL TYPE MARK

WOOD

WALLS

= BEARING WALL EXTENDING ABOVE FLOOR / ROOF

= BEARING WALL TERMINATING BELOW FLOOR / ROOF

= EXTERIOR WALL TERMINATING BELOW FLOOR / ROOF

= WOOD SHEARWALL

= HOLD-DOWN ANCHOR

MSP-A = MULTIPLE STUD PACK

INDICATES SIDE OF WALL TO BE SHEATHED
LENGTH OF SHEATHING
SW1 | X'-X" = SHEARWALL MARK
SHEARWALL TYPE - REFERENCE SCHEDULE

W1 = WALL TYPE MARK

MISC ANNOTATIONS

T-X = TRUSS MARK

COLD-FORMED METAL FRAMING

WALLS

= BEARING WALL EXTENDING ABOVE FLOOR / ROOF

= EXTERIOR WALL TERMINATING BELOW FLOOR / ROOF

= EXTERIOR WALL TERMINATING BELOW FLOOR / ROOF

= CFMF SHEARWALL

= HOLD-DOWN ANCHOR

MSP-A = MULTIPLE STUD PACK

INDICATES SIDE OF WALL TO BE SHEATHED
LENGTH OF SHEATHING
SW1 | X'-X" = SHEARWALL MARK
SHEARWALL TYPE - REFERENCE SCHEDULE

W1 = WALL TYPE MARK

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	KCJ	KEYED CONSTRUCTION JOINT
ARCH	ARCHITECT	Ld	REBAR TENSION DEVELOPMENT LENGTH
BD	BAR DIAMETER		
BF	BRACED FRAME	Ldc	REBAR COMPRESSION DEVELOPMENT LENGTH
BEJ	BUILDING EXPANSION JOINT		
BLDG	BUILDING	Ldh	HOOKED REBAR TENSION DEVELOPMENT LENGTH
BM	BEAM		
BOD	BOTTOM OF DECK	Ls	REBAR TENSION SPLICE LENGTH
BOS	BOTTOM OF STEEL		
BOT, B	BOTTOM	Lsc	REBAR COMPRESSION SPLICE LENGTH
BRG	BEARING		
BTWN	BETWEEN	L	LOW
C TO C	CENTER TO CENTER	LLH	LONG LEG HORIZONTAL
CFMF	COLD-FORMED METAL FRAMING	LLV	LONG LEG VERTICAL
		LSH	LONG SIDE HORIZONTAL
CJ	CONTROL JOINT	LSV	LONG SIDE VERTICAL
CL	CENTERLINE	LTWT	LIGHTWEIGHT
CLR	CLEAR	LWC	LIGHTWEIGHT CONCRETE
CMU	CONCRETE MASONRY UNIT	MAS	MASONRY
COL	COLUMN	MATL	MATERIAL
CONC	CONCRETE	MAX	MAXIMUM
CONN	CONNECTION	MECH	MECHANICAL
CONSTR	CONSTRUCTION	MF	MOMENT FRAME
CONT	CONTINUOUS	MFR	MANUFACTURER
COORD	COORDINATE	MID	MIDDLE
CTR	CENTER	MIN	MINIMUM
CTRD	CENTERED	MOD	MODIFY
DBA	DEFORMED BAR ANCHOR	MOS	MIDDEPTH OF SLAB
DBL	DOUBLE	NOM	NOMINAL
DC	DIAPHRAGM CHORD	NS	NEAR SIDE
DCJ	DOWELED CONSTRUCTION JOINT	NTS	NOT TO SCALE
		OC	ON CENTER
DIA, Ø	DIAMETER	OPH	OPPOSITE HAND
DIST	DISTANCE	OPNG	OPENING
DJ	DOUBLE JOIST	PAF	POWDER ACTUATED FASTENER
DWGS	DRAWINGS		
EA	EACH	PAR	PARALLEL
EF	EACH FACE	PC	PIECE
EJ	EXPANSION JOINT	PEMB	PRE-ENGINEERED METAL BUILDING
EL	ELEVATION		
ELEV	ELEVATOR	PEN	PENETRATE, PENETRATION
EMBED	EMBEDMENT	PERP	PERPENDICULAR
EOD	EDGE OF DECK	PL	PLATE
EOS	EDGE OF SLAB	PT	POST-TENSIONED (CONC) PRESSURE TREATED (WOOD)
EQ	EQUAL		
EW	EACH WAY	R	RADIUS
EXIST	EXISTING	REF	REFERENCE, REFER TO
EXP	EXPANSION	REINF	REINFORCE, REINFORCED, REINFORCING
EXT	EXTERIOR		
FD	FLOOR DRAIN	REQD	REQUIRED
FDN	FOUNDATION	REQMTS	REQUIREMENTS
FO	FACE OF	SCHED	SCHEDULE
FF EL	FINISHED FLOOR ELEVATION	SF	STEPPED FOOTING
		SGB	STEPPED GRADE BEAM
FIN	FINISH	SIM	SIMILAR
FIN FLR	FINISHED FLOOR	SJ	SAWED JOINT
FOB	FACE OF BUILDING	SL	SLOPE
FOC	FACE OF CONCRETE	SOG	SLAB-ON-GRADE
FOM	FACE OF MASONRY	SPF	SIDEPLATE FRAME
FOS	FACE OF SLAB/ STUD	STD	STANDARD
FRMG	FRAMING	STIFF	STIFFENER
FTG	FOOTING	TBE	TRUSS BEARING ELEVATION
FS	FAR SIDE	T&B	TOP & BOTTOM
FV, ±	FIELD VERIFY	T&G	TONGUE AND GROOVE
GALV	GALVANIZED	THK	THICKNESS
GC	GENERAL CONTRACTOR	TOC	TOP OF CONCRETE
GEN	GENERAL	TOF	TOP OF FOOTING
GR BM	GRADE BEAM	TOM	TOP OF MASONRY
H	HIGH	TOCP	TOP OF CONCRETE PEDESTAL
HK	HOOK	TOS	TOP OF STEEL
HORIZ	HORIZONTAL	TS	THICKENED SLAB
HSS	HOLLOW STRUCTURAL SECTION	TS/STR	THICKENED SLAB AT STAIR
		TYP	TYPICAL
HSA	HEADED STUD ANCHOR	UON	UNLESS OTHERWISE NOTED
HT	HEIGHT	VERT	VERTICAL
HVY	HEAVY	W/	WITH
INT	INTERIOR	WP	WORKING POINT
JBE	JOIST BEARING ELEVATION	WSP	WOOD STRUCTURAL PANEL(S)
JT	JOINT	WWR	WELDED WIRE REINFORCING
KCJ	KEYED CONSTRUCTION JOINT		

BANDSHEEL SHEET LIST

Sheet Number	Sheet Name
S0.00	COVER SHEET
S0.01	GENERAL NOTES - BANDSHELL
S0.02	GENERAL NOTES - BANDSHELL
S1.01	FOUNDATION PLAN - BANDSHELL
S1.02	SLAB PLAN - BANDSHELL
S1.03	FRAMING PLAN - BANDSHELL
S3.01	SECTIONS
S3.02	SECTIONS
S5.01	TYPICAL DETAILS
S5.02	TYPICAL DETAILS
S5.03	TYPICAL DETAILS

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WHITEVILLE COMMUNITY SPACE

907 S MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

NORTH CAROLINA
REGISTERED
SEAL
053114
ENGINEER
STEPHEN N. SPARKS

Stephen Sparks
8/20/2025

SCALE: 1 inch =

THESE DRAWINGS ARE RELEASED FOR THE FOLLOWING USE. ANY OTHER USE OF THESE DRAWINGS IS AT THE RISK OF THE CONTRACTOR OR OTHERS USING THESE DRAWINGS FOR THAT UNAUTHORIZED USE. LYNCH MYKINS IS NOT RESPONSIBLE FOR ADDITIONAL COSTS DUE TO CHANGES, COORDINATION OR ADDITIONAL SCOPE OF WORK REQUIRED DUE TO SUCH UNAUTHORIZED USE.

- [ ] PRELIMINARY BUDGET PRICING
- [ ] EARLY FOUNDATION PACKAGE
- [ ] MILL ORDER PACKAGE
- [ ] EARLY STEEL PACKAGE
- [ ] PERMIT SET
- [x] CONSTRUCTION SET

WR JOB NUMBER 23-0695
DRN: DGN: CKD:

COVER SHEET

S0.00

EST 1983

GENERAL NOTES:

1. THE STRUCTURAL DRAWINGS MUST BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS, AND THE SPECIFICATIONS. THE CONTRACTOR MUST VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES, AND ADDITIONAL ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.

2. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF THE NORTH CAROLINA STATE BUILDING CODE, 2018 EDITION.

3. THE CONTRACTOR MUST PROVIDE TEMPORARY SHORING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL PERMANENT SUPPORTS AND LATERAL BRACING ARE IN PLACE.

4. DISCREPANCIES WITHIN DRAWINGS, BETWEEN THE SPECIFICATIONS AND THE DRAWINGS, OR WITHIN THE SPECIFICATIONS, MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER DURING THE BIDDING PROCESS IN TIME TO PERMIT CLARIFICATION BY ADDENDUM. IF INCONSISTENCIES, DISCREPANCIES OR CONTRADICTIONS IN THE CONTRACT DOCUMENTS ARE DISCOVERED AFTER THE CLOSE OF BIDDING QUESTIONS, THE CONTRACTOR MUST BE DEEMED BY SUBMITTAL OF THEIR BID, TO HAVE BID THE MOST COSTLY AS TO LABOR, MATERIALS, DURATION, SEQUENCE AND METHOD OF CONSTRUCTION TO PROVIDE THE WORK.

5. THESE STRUCTURAL DRAWINGS ARE ISSUED ON THE DATE INDICATED FOR THE PURPOSE DESIGNATED. THESE DRAWINGS MUST NOT BE ISSUED OR RELEASED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN AUTHORIZATION OF THE STRUCTURAL ENGINEER OF RECORD.

6. DETAILS LABELED "TYPICAL DETAIL" WITHIN THE DOCUMENTS APPLY TO SITUATIONS ON THE PROJECT THAT MAY OCCUR THROUGHOUT THE PROJECT. SUCH DETAILS APPLY WHETHER OR NOT THE DETAIL IS SPECIFICALLY REFERENCED AT EACH INSTANCE. NOTIFY ENGINEER IF CLARIFICATIONS ARE REQUIRED REGARDING THE APPLICABILITY OF THE "TYPICAL DETAIL".

7. DESIGN CRITERIA:

CLASSIFICATION OF BUILDING
- RISK CATEGORY . . . II

SUPERIMPOSED ROOF DEAD LOADS - UNIFORM:
- WOOD DECKING . . . 5 PSF
- CEILING . . . 2 PSF

LIVE LOADS - UNIFORM:
- SLAB ON GRADE . . . 100 PSF
- ROOF . . . 20 PSF
- CLASSROOMS . . . 40 PSF
- OFFICES . . . 50 PSF
- COMMERCIAL, PUBLIC AREAS . . . 100 PSF

LIVE LOAD REDUCTION OF THE UNIFORMLY DISTRIBUTED FLOOR LIVE LOADS HAS BEEN UTILIZED WHERE PERMITTED BY CODE.

LIVE LOADS - CONCENTRATED:
- ROOFS . . . 300#

UNLESS OTHERWISE NOTED, CONCENTRATED LOADS ARE APPLIED UNIFORMLY OVER 2'-6" x 2'-6" AREA.

RAIN LOADS:
- RAIN INTENSITY (15 MINUTE) . . . 0.97 IN/HR

SNOW LOADS:
- GROUND SNOW LOAD (Pg) . . . 15 PSF
- FLAT ROOF LOAD (Pf) . . . 11.5 PSF
- IMPORTANCE FACTOR (Is) . . . 1.0
- THERMAL FACTOR (Ct) . . . 1.0
- EXPOSURE FACTOR (Ce) . . . 1.0
- DRIFT SURCHARGE (Pd) . . . REF PLAN

WIND LOADS:
- BASIC WIND SPEED (Vult) . . . 136 MPH
- ALLOWABLE STRESS DESIGN WIND SPEED (Vasd) . . . 105 MPH
- EXPOSURE CATEGORY . . . B
- INTERNAL PRESSURE COEFFICIENT . . . ±0.00
- COMPONENT AND CLADDING PRESSURES:
  - ROOF . . . 19.1 PSF

- ULTIMATE WIND BASE SHEARS (FOR MWFRS):
  - Vx . . . 3.75 KIPS
  - Vy . . . 10.75 KIPS

SEISMIC LOADS:
- SITE CLASSIFICATION . . . D
- SEISMIC DESIGN CATEGORY . . . C
- IMPORTANCE FACTOR (IE) . . . 1.0
- SPECTRAL RESPONSE ACCELERATIONS:
  - S_S . . . 0.308 S_1 . . . 0.121
  - S_{MS} . . . 0.478 S_{M1} . . . 0.281
  - S_{DS} . . . 0.319 S_{D1} . . . 0.187
- ANALYSIS PROCEDURE . . . EQUIVALENT LATERAL FORCE
- LATERAL FORCE RESISTING SYSTEM . . . INTERMEDIATE REINFORCED STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
- RESPONSE MODIFICATION COEFFICIENT (R) . . . 3.0
- SEISMIC RESPONSE COEFFICIENT (Cs) . . . 0.106
- ULTIMATE SEISMIC BASE SHEAR (V) . . . 7.5 KIPS

LATERAL DESIGN CONTROL
- CONTROLLING LATERAL LOADS . . . WIND

FOUNDATION NOTES:

1. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE [SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING REPORT PREPARED BY S&ME, DATED MAY 22, 2024.

2. FOUNDATIONS HAVE BEEN DESIGNED FOR A NET ALLOWABLE SOIL BEARING PRESSURE OF 2,000 PSF.

3. PRIOR TO PLACING FOUNDATION CONCRETE, ALL FOUNDATION EXCAVATIONS MUST BE INSPECTED BY THE OWNER'S GEOTECHNICAL TESTING AGENCY TO EXPLORE THE EXTENT OF LOOSE, SOFT, EXPANSIVE, OR OTHERWISE UNSATISFACTORY SOIL MATERIAL AND TO VERIFY DESIGN BEARING PRESSURE. DIRECTION FOR CORRECTIVE ACTION WILL BE PROVIDED BY THE OWNER'S GEOTECHNICAL TESTING AGENCY WHERE UNSATISFACTORY SOILS ARE PRESENT.

4. NO UNBALANCED BACKFILLING MUST BE DONE AGAINST MASONRY OR CONCRETE WALLS UNLESS WALLS ARE SECURELY BRACED AGAINST OVERTURNING, EITHER BY TEMPORARY CONSTRUCTION BRACING OR BY PERMANENT CONSTRUCTION.

5. CONTROL GROUNDWATER AND SURFACE RUNOFF THROUGHOUT THE CONSTRUCTION PROCESS. INUNDATION AND LONG TERM EXPOSURE OF BEARING SURFACES WHICH RESULT IN DETERIORATION OF BEARING MUST BE PREVENTED.

CAST-IN-PLACE CONCRETE NOTES:

1. CONCRETE MUST BE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301 AND 318.

2. CONCRETE MUST BE NORMAL WEIGHT AND MUST OBTAIN 28 DAY COMPRESSIVE STRENGTHS AS FOLLOWS:
   A. SLAB-ON-GRADE ..... 3,500 PSI
   B. FOUNDATIONS..... 3,000 PSI

3. REINFORCING MATERIALS MUST BE AS FOLLOWS:
   A. REINFORCING BARS - ASTM A615, GRADE 60, DEFORMED.
   B. WELDED REINFORCING BARS - ASTM A706, GRADE 60.
   C. WELDED WIRE REINFORCEMENT - ASTM A1064, WELDED STEEL WIRE REINFORCEMENT; PROVIDE SHEET TYPE, ROLL TYPE IS NOT ACCEPTABLE.

4. ALL REINFORCING STEEL AND EMBEDDED ITEMS SUCH AS ANCHOR RODS AND WELD PLATES MUST BE ACCURATELY PLACED AND ADEQUATELY TIED AND SUPPORTED BEFORE CONCRETE IS PLACED TO PREVENT DISPLACEMENT BEYOND PERMITTED TOLERANCES.

5. CONCRETE COVER TO REINFORCING STEEL MUST EQUAL THE FOLLOWING, UNLESS OTHERWISE NOTED:
   A. SURFACES AGAINST EARTH ..... 3"
   B. SURFACES NOT CAST AGAINST EARTH, BUT EXPOSED TO EARTH OR WEATHER IN THE FINAL CONDITION
      #5 AND SMALLER ..... 1 1/2"
      #6 AND LARGER ..... 2"

6. LAP CONTINUOUS REINFORCING STEEL 57 X BAR DIAMETER, TYPICAL UNLESS OTHERWISE NOTED.

CONCRETE MIX DESIGN NOTES:

1. MIX DESIGNS COMPRESSIVE STRENGTHS (f'c) BASED ON 28 DAY DESIGN STRENGTH, UNLESS OTHERWISE NOTED.

2. FOUNDATIONS (SPREAD FOOTINGS, MAT FOOTINGS):
   A. EXPOSURE CLASS = ACI 318 F0, S0, W0, C1
   B. MINIMUM COMPRESSIVE STRENGTH (f'c) = 3,000PSI
   C. MAXIMUM W/CM = 0.5
   D. BLENDED HYDRAULIC CEMENT = ASTM C595 TYPE 1L
   E. SLUMP = 5" MAX PLUS OR MINUS 1", OR 8" MAX, PLUS OR MINUS 1" FOR CONCRETE WITH A VERIFIED SLUMP OF 3" PLUS OR MINUS 1" BEFORE ADDING HIGH-RANGE WATER-REDUCING OR PLASTICIZING ADMIXURE
   F. AIR CONTENT = NO REQUIREMENTS
   G. AGGREGATE = NORMAL WEIGHT, ¾" NOMINAL
   H. LIMIT WATER-SOLUBLE, CHLORIDE-ION CONTENT IN HARDENED CONCRETE TO 0.30 PERCENT BY WEIGHT OF CEMENT

3. EXTERIOR SLAB-ON-GRADE:
   A. EXPOSURE CLASS = ACI 318 F0, S0, W0, C0
   B. MINIMUM COMPRESSIVE STRENGTH (f'c) = 3,500PSI
   C. MAXIMUM W/CM = 0.5
   D. BLENDED HYDRAULIC CEMENT = ASTM C595 TYPE 1L
   E. SLUMP = 5" MAX PLUS OR MINUS 1", OR 8" MAX, PLUS OR MINUS 1" FOR CONCRETE WITH A VERIFIED SLUMP OF 3" PLUS OR MINUS 1" BEFORE ADDING HIGH-RANGE WATER-REDUCING OR PLASTICIZING ADMIXURE
   F. AIR CONTENT = DO NOT ALLOW AIR CONTENT IN TROWEL FINISHED FLOORS TO EXCEED 3%
   G. AGGREGATE = NORMAL WEIGHT, ¾" NOMINAL
   H. LIMIT WATER-SOLUBLE, CHLORIDE-ION CONTENT IN HARDENED CONCRETE TO 1.00 [0.6] PERCENT BY WEIGHT OF CEMENT

CONCRETE MASONRY NOTES:

1. CONCRETE MASONRY MATERIALS AND CONSTRUCTION MUST CONFORM TO THE AMERICAN CONCRETE INSTITUTE (ACI) "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (TMS 402 / ACI 530 / ASCE 5) AND "SPECIFICATIONS FOR MASONRY STRUCTURES" (TMS 602 / ACI 530.1 / ASCE 6).

2. CONCRETE MASONRY UNITS MUST CONFORM TO ASTM C90 AND MUST BE MADE WITH [LIGHTWEIGHT] [NORMAL WEIGHT] AGGREGATE.

3. COMPRESSIVE STRENGTH OF MASONRY MUST BE DETERMINED BY THE UNIT STRENGTH METHOD AS SET FORTH IN ACI 530.1. THE NET AREA COMPRESSIVE STRENGTH OF MASONRY, f'm, MUST BE 2,000 PSI AT 28 DAYS.

4. MORTAR MUST BE TYPE 'M' OR 'S' AND MUST COMPLY WITH ASTM C270, PROPORTIONS OR PROPERTIES SPECIFICATION.

5. GROUT MUST COMPLY WITH EITHER THE PROPORTIONS OR PROPERTIES SPECIFICATION OF ASTM C476 AND AS FOLLOWS:
   A. PROPORTIONS SPECIFICATION: THIS MIX CANNOT CONTAIN ADMIXTURES. WATER MUST BE ADDED IN THE FIELD IN ORDER TO ACHIEVE A SLUMP OF 8-11 INCHES WHEN PLACED IN THE CONCRETE MASONRY UNITS. MORTAR, PEA-GRAVEL CONCRETE, OR "CHAT" MIXES ARE NOT ACCEPTABLE SUBSTITUTES FOR THE SPECIFIED GROUT.
   B. PROPERTIES SPECIFICATION: THIS MIX MUST BE PROPORTIONED TO OBTAIN A DOCUMENTED 28 DAY COMPRESSIVE STRENGTH OF 2,500 PSI, WITH 3/8" MAX AGGREGATE AND AN 8-11 INCH SLUMP WHEN PLACED IN THE CONCRETE MASONRY UNITS.

6. REINFORCING STEEL MUST COMPLY WITH ASTM A615, GRADE 60. SHOP FABRICATE REINFORCING BARS WHICH ARE SHOWN TO BE BENT OR HOOKED.

7. ALL BOND BEAMS, REINFORCED CELLS AND CELLS WITH EXPANSION BOLTS, EMBED PLATES OR OTHER ANCHORS AND ALL CELLS BELOW GRADE MUST BE GROUTED SOLID. GROUT PROCEDURE MUST COMPLY WITH ACI 530.1.

8. ALL CMU WALLS MUST BE REINFORCED CONTINUOUSLY FROM FOUNDATION TO TOP OF WALL. WHERE REINFORCING IS INTERRUPTED, OFFSET AND LAP ADDITIONAL BARS PER THE "TYPICAL OFFSET SPLICE AT MASONRY WALL DETAILS."

9. LAP ALL REINFORCING PER SCHEDULE BELOW, TYPICAL UNLESS OTHERWISE NOTED:

MASONRY LAP SCHEDULE

REINF SIZE	52 x BAR DIAMETER	72 x BAR DIAMETER
#4	26"	36"
#5	33"	45"
#6	39"	54"
#7	46"	63"
#8	52"	72"

10. PROVIDE ONE VERTICAL BAR EACH SIDE OF ALL OPENINGS AND CONTROL JOINTS, AND AT CORNERS AND INTERSECTIONS OF ALL MASONRY WALLS, BOTH BEARING AND NON-BEARING WALLS. SHOW CONTROL JOINT LOCATIONS ON THE REINFORCING STEEL SHOP DRAWINGS.

11. PROVIDE STANDARD 9 GAGE TRUSS TYPE HORIZONTAL JOINT REINFORCING IN CMU WALLS AT 16 INCHES ON-CENTER VERTICALLY AND AT 8 INCHES ON-CENTER VERTICALLY AT PARAPETS. ADDITIONALLY PROVIDE IN THE TWO JOINTS IMMEDIATELY ABOVE AND BELOW ALL OPENINGS, EXTENDING A MINIMUM OF 2 FEET BEYOND THE JAMB ON EACH SIDE OF THE OPENING, EXCEPT AT CONTROL JOINTS.

12. PLACE GROUT WITH POUR HEIGHT NOT EXCEEDING 5 FEET. CONSOLIDATE EACH POUR BY MECHANICAL VIBRATION. RECONSOLIDATE AFTER INITIAL WATER LOSS AND SETTLEMENT OCCUR.

13. GROUT POUR HEIGHT MAY BE INCREASED WHERE THE FOLLOWING CONDITIONS ARE MET:
   A. LIMIT POUR HEIGHT BASED ON A MINIMUM WIDTH OF GROUT SPACE IN ACCORDANCE WITH TABLE 7 OF ACI 530.1 / ASCE 6 / TMS 602.
   B. PLACE GROUT IN LIFTS NOT EXCEEDING THE LIMITATIONS SPECIFIED IN ACE 530.1/ASCE 6/TMS 602.
   C. CONSOLIDATE EACH POUR BY MECHANICAL VIBRATION. RECONSOLIDATE AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURED.
   D. FORM A GROUT KEY BETWEEN POURS ACCORDING TO ACI 530.1 / ASCE 6 / TMS 602.
   E. PROVIDE AN INSPECTION PORT (CLEANOUT) AT EACH CELL TO BE GROUTED AT THE BASE OF EACH POUR.
   F. SUBMIT SHOP DRAWINGS DETAILING THE PROPOSED GROUTING PROCEDURE ALONG WITH (3) REFERENCES OF PREVIOUS SUCCESSFUL PROJECTS.

14. MASONRY SHALL BE CONSTRUCTED IN RUNNING BOND PATTERN AND ALL CORNERS TO BE TIED BY MASONRY BOND.

15. SUBMITTALS FOR CONCRETE MASONRY MUST INCLUDE THE FOLLOWING:
   A. PRODUCT DATA/MATERIAL CERTIFICATES: SUBMIT DATA AND CERTIFICATES FOR MASONRY UNITS, CEMENTITOUS MATERIALS, MORTAR ADMIXTURES, PRE-BLENDED DRY MORTAR MIXES, REINFORCING BARS, JOINT REINFORCEMENT, ANCHORS, TIES, AND METAL ACCESSORIES.
   B. REINFORCEMENT SHOP DRAWINGS: SHOW ELEVATIONS OF REINFORCED WALLS. MUST COMPLY WITH ACI DETAILING MANUAL: DETAIL BENDING, LAP LENGTHS, AND PLACEMENT OF UNIT MASONRY REINFORCING BARS.
   C. MIX DESIGNS: SUBMIT MIX DESIGNS FOR EACH TYPE OF MORTAR AND GROUT AND INCLUDE DESCRIPTION OF TYPE AND PROPORTIONS OF INGREDIENTS. INCLUDE TEST REPORTS FOR GROUT MIXES ACCORDING TO ASTM C1019
   D. SHOP DRAWINGS MUST INDICATE THE DATE OF THE STRUCTURAL DRAWINGS THAT WERE USED IN PREPARATION.

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lynchmykins now IMEG
301 N WEST STREET, SUITE 105
RALEIGH, NC 27603
919.782.1633 www.imegcorp.com

CONFORMED CONSTRUCTION DOCUMENTS

WHITEVILLE COMMUNITY SPACE

907 S MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

NORTH CAROLINA PROFESSIONAL SEAL 053114 ENGINEER STEPHEN N. SPARKS
8/20/2025

SCALE: 1 inch =

WR JOB NUMBER 23-0695
DRN: DGN: CKD:

GENERAL NOTES - BANDSHELL

S0.01

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL MUST BE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 360.

2. STRUCTURAL STEEL FABRICATOR MUST PARTICIPATE IN THE AISC QUALITY CERTIFICATION PROGRAM AND BE A DESIGNATED AISC-CERTIFIED PLANT.

3. STRUCTURAL STEEL INSTALLER MUST PARTICIPATE IN THE AISC QUALITY CERTIFICATION PROGRAM AND BE A DESIGNATED AISC-CERTIFIED ERECTOR.

4. STRUCTURAL STEEL MUST COMPLY WITH THE FOLLOWING SPECIFICATIONS:
   A. STRUCTURAL STEEL SHAPES, PLATES AND BARS UNLESS OTHERWISE NOTED - ASTM A572, Fy = 50 KSI
   B. STRUCTURAL STEEL W-SHAPES - ASTM A992, Fy = 50 KSI
   C. HOLLOW STRUCTURAL SECTIONS (HSS):
      a. ROUND - ASTM A500, GRADE C, Fy = 46 KSI
   D. ANCHOR RODS - ASTM F1554, GRADE [36] [55]
   E. HIGH STRENGTH BOLTS - ASTM F3125, TYPE A325 (TYPICAL UON)
   F. FULLY PRETENSIONED BOLTS - ASTM F1852 (TWIST-OFF TYPE)
   G. WASHERS - ASTM F436
   H. NUTS - ASTM A563
   I. HEADED STUDS - ASTM A29, GRADE 1010 THROUGH 1020

5. UNLESS OTHERWISE NOTED, ALL REQUIRED DESIGN STRENGTHS AND REACTIONS INDICATED ARE BASED ON THE "LOADING COMBINATIONS USING STRENGTH DESIGN OR LOAD AND RESISTANCE FACTOR DESIGN" PER SECTION 1605.2 OF THE BUILDING CODE.

6. ALL STEEL CONNECTIONS AND MEMBER REINFORCEMENT MUST BE DESIGNED BY FABRICATOR'S QUALIFIED PROFESSIONAL ENGINEER FOR LOADS INDICATED ON THE DRAWINGS, PER OPTION 3B OF ANSI/AISC 303 AND COMPLETE THE FOLLOWING:

   A. SUBMIT STRUCTURAL CALCULATIONS SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE [VIRGINIA] [NORTH CAROLINA] RESPONSIBLE FOR THEIR PREPARATION.
   B. THE PROFESSIONAL ENGINEER RESPONSIBLE FOR CONNECTION DESIGN MUST REVIEW THE SHOP DRAWINGS PRIOR TO SUBMITTAL TO VERIFY THAT THE CONNECTIONS AS DETAILED ON THE SHOP DRAWINGS COMPLY WITH THE CONNECTION DESIGN REQUIREMENTS OF THE FINAL CALCULATIONS.
   C. A REVIEW LETTER, SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER RESPONSIBLE FOR CONNECTION DESIGN MUST BE PROVIDED WITH THE SHOP DRAWINGS AND CALCULATION SUBMITTAL STATING THAT THIS REVIEW AND VERIFICATION HAS BEEN COMPLETED.

7. HIGH STRENGTH BOLTS MAY BE TIGHTENED TO THE "SNUG TIGHT" CONDITION, UNLESS OTHERWISE NOTED.

8. BOLTED CONNECTIONS MAY USE NON-STANDARD HOLES, EXCEPT IN THE FOLLOWING LOCATIONS:

   A. AXIAL CONNECTIONS IDENTIFIED ON PLAN.
   B. ALL FRAMING CONNECTIONS AT BRACED FRAMES AND MOMENT FRAMES.
   C. CONNECTIONS IDENTIFIED ON PLAN WITH FULL DEPTH STIFFENER PLATES.

9. WELDING MUST BE IN ACCORDANCE WITH AWS D1.1, "STRUCTURAL WELDING CODE - STEEL." WELD ELECTRODES MUST BE E70XX LOW HYDROGEN. UNLESS OTHERWISE NOTED, PROVIDE CONTINUOUS FILLET WELDS WITH MINIMUM SIZE REQUIRED BY TABLE J2.4 AISC 360.

10. SHOP PRIME STEEL SURFACES, EXCEPT THE FOLLOWING:

    A. SURFACES EMBEDDED IN CONCRETE OR MORTAR. EXTEND PRIMING OF PARTIALLY EMBEDDED MEMBERS TO A DEPTH OF 2 INCHES.
    B. SURFACES TO BE WELDED.
    C. SURFACES TO RECEIVE SPRAYED FIRE-RESISTIVE MATERIALS.
    D. GALVANIZED SURFACES.
    E. SURFACES ENCLOSED IN INTERIOR CONSTRUCTION.

11. CLEAN ALL STEEL SURFACES TO BE PAINTED. REMOVE LOOSE RUST, MILL SCALE, SPATTER, SLAG, OR FLUX DEPOSITS. PREPARE SURFACES IN ACCORDANCE WITH SSPC-SP3 SPECIFICATION AND STANDARD.

12. HOT-DIP GALVANIZE AFTER FABRICATION THE FOLLOWING:

    A. ANGLES AND PLATES SUPPORTING MASONRY IN EXTERIOR WALLS.
    B. LINTELS AND LINTEL ASSEMBLIES SUPPORTING MASONRY IN EXTERIOR WALLS.
    C. ALL STEEL EXPOSED TO WEATHER IN THE FINAL CONSTRUCTION.
    D. ITEMS IDENTIFIED AS GALVANIZED ON ARCHITECTURAL OR STRUCTURAL DRAWINGS.
    E. GALVANIZED STEEL THAT IS ALSO SCHEDULED FOR PAINTING AS THE FINAL FINISH TO BE LEFT UNQUENCHED OR OTHERWISE PREPPED TO RECIEVE PAINT.

ROUGH CARPENTRY NOTES:

1. ROUGH CARPENTRY MUST BE IN ACCORDANCE WITH THE AMERICAN WOOD COUNCIL (AWC) "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION."

2. UNLESS OTHERWISE NOTED, USE 'COMMON' NAILS AND ALL NAILING MUST CONFORM TO THE "FASTENING SCHEDULE" TABLE 2304.10.1 OF THE BUILDING CODE.

3. WOOD FRAMING MEMBERS MUST COMPLY WITH PS 20 "AMERICAN SOFTWOOD LUMBER STANDARD" AND THE FOLLOWING REQUIREMENTS:
   A. MOISTURE CONTENT - SEASONED, WITH 15 PERCENT MAXIMUM MOISTURE CONTENT.
   B. GRADE - NO. 2, OR BETTER UNLESS OTHERWISE NOTED.
   C. SPECIES - SPRUCE-PINE-FIR UNDER NLGA RULES.

4. WOOD STRUCTURAL PANELS (WSP) MUST COMPLY WITH PS 1 "U.S. PRODUCT STANDARD FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD" FOR PLYWOOD CONSTRUCTION PANELS AND THE FOLLOWING REQUIREMENTS:
   A. ROOF SHEATHING: 9/16" INCH, APA RATED SHEATHING, EXTERIOR EXPOSURE DURABILITY CLASSIFICATION. PROVIDE TONGUE-AND-GROOVE EDGES OR USE "PLY-CLIPS" AT MID-SPAN BETWEEN EACH SUPPORT.

5. ALL WOOD FRAMING MEMBERS PERMANENTLY EXPOSED TO THE WEATHER AND ALL SILL PLATES IN CONTACT WITH CONCRETE MUST BE PRESERVATIVE-TREATED. REFER TO THE SPECIFICATIONS.

6. STEEL PLATE CONNECTORS MUST COMPLY WITH ASTM A 36 SPECIFICATIONS
   (Fy= 36 KSI). BOLTS CONNECTING WOOD MEMBERS MUST COMPLY WITH ASTM
   A307 COMMON STEEL BOLTS, AND MUST BE 1/2 INCH DIAMETER, UNLESS OTHERWISE NOTED.

7. METAL FRAMING ANCHORS, HOLD DOWNS, HURRICANE TIES, HANGERS, ETC. MUST COMPLY WITH ASTM A653 AND BE CAPABLE OF SUPPORTING THE REACTIONS SHOWN. WHERE PRODUCTS OF A SPECIFIC MANUFACTURER ARE SHOWN, EQUAL PRODUCTS OF ANOTHER MANUFACTURER MAY BE USED IF APPROVED.

8. UNLESS OTHERWISE NOTED, ATTACH BLOCKING AND NAILERS TO STEEL FRAMING USING 3/16 INCH DIAMETER POWDER ACTUATED FASTENERS AT 24 INCHES ON CENTER OR 1/2 INCH DIAMETER BOLTS AT 48 INCHES ON CENTER. STAGGER FASTENERS TO ALTERNATE SIDES OF BEAM WEB.

9. WHERE MULTIPLE FRAMING MEMBERS ARE INDICATED, SCAB CONTINGENT MEMBERS TOGETHER WITH 16d NAILS AT 12 INCHES ON CENTER, ALTERNATING AT 2 INCHES FROM EACH EDGE.

10. ALL CONNECTION HARDWARE IN CONTACT WITH PRESERVATIVE TREATED WOOD MUST BE HOT-DIP GALVANIZED COATED.

11. POWDER ACTUATED FASTENERS (PAF) MUST HAVE A MINIMUM ALLOWABLE CAPACITY INTO THE BASE MATERIAL AS FOLLOWS UNLESS OTHERWISE NOTED:
    A. STEEL: SHEAR = 600 LBS
       TENSION = 250 LBS
    B. CONCRETE: SHEAR = 260 LBS
       TENSION = 255 LBS

PREFABRICATED METAL-PLATE-CONNECTED WOOD TRUSS NOTES:

1. PREFABRICATED METAL-PLATE-CONNECTED WOOD TRUSSES MUST BE IN ACCORDANCE WITH THE AMERICAN FOREST AND PAPER ASSOCIATION (AF&PA) "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" AND THE TRUSS PLATE INSTITUTE (TPI) "NATIONAL DESIGN STANDARDS FOR METAL-PLATE-CONNECTED WOOD TRUSS CONSTRUCTION".

2. SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A [VIRGINIA] [NORTH CAROLINA] LICENSED PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN OF PREFABRICATED METAL-PLATE-CONNECTED WOOD TRUSSES. SHOP DRAWINGS MUST INCLUDE DESIGN LOADINGS AND REACTIONS APPLIED TO THE SUPPORTING STRUCTURE. INCLUDE ALL TRUSS SPLICE DETAILS AND TRUSS-TO-TRUSS CONNECTION DETAILS. SECONDARY BENDING STRESSES IN TRUSS TOP AND BOTTOM CHORDS DUE TO MEMBER LOADS MUST BE CONSIDERED IN THE DESIGN.

3. WOOD TRUSS FRAMING MEMBERS MUST COMPLY WITH PS 20 "AMERICAN SOFTWOOD LUMBER STANDARD" AND MUST BE SIZED BY THE MANUFACTURER FOR THE LOADS INDICATED.

4. METAL CONNECTOR PLATES MUST COMPLY WITH ASTM [A446] [A653], GRADE A WITH COATING AS SPECIFIED.

5. WOOD TRUSS DESIGN LOADS MUST BE AS INDICATED IN "GENERAL NOTES" AND AS FOLLOWS:
   A. TOP CHORD DEAD LOAD: 10 PSF
   B. WIND LOAD: WHEN CALCULATING NET UPLIFT REACTIONS, USE MAXIMUM RESISTING DEAD LOAD = 20 PSF ON TOP CHORD AND 20 PSF ON BOTTOM CHORD.
   C. BOTTOM CHORD DEAD LOAD: 10 PSF.

6. WHERE MULTIPLE TRUSSES ARE INDICATED, SCAB CONTINGENT TRUSS MEMBERS TOGETHER WITH 16d NAILS AT 12 INCHES ON CENTER.

7. IN ADDITION TO THE TRUSS BRACING SHOWN, THE CONTRACTOR MUST PROVIDE ALL TEMPORARY AND PERMANENT BRACING AS REQUIRED FOR SAFE ERECTION OF THE TRUSSES, OR AS RECOMMENDED BY THE MANUFACTURER. THE GUIDELINES SET FORTH IN THE TRUSS PLATE INSTITUTE PUBLICATION "BRACING WOOD TRUSSES, COMMENTARY AND RECOMMENDATIONS" MUST BE CONSIDERED AS MINIMUM REQUIREMENTS.

8. ALL CONNECTION HARDWARE FOR TRUSS-TO-TRUSS CONNECTIONS AND TRUSS TO SUPPORTING STRUCTURE CONNECTIONS MUST BE SUPPLIED BY THE MANUFACTURER.

9. FOR ADJACENT TRUSSES WHERE THE WEB CONFIGURATION IS CAPABLE OF CONTAINING A RECTANGLE 42 INCHES HIGH BY 24 INCHES WIDE OR GREATER BETWEEN TOP OF THE BOTTOM CHORD AND THE BOTTOM OF ANY OTHER TRUSS MEMBER, SUCH AREAS MUST HAVE THE BOTTOM CHORD DESIGNED FOR A LIVE LOAD OF 20 PSF IN ADDITION TO ANY OTHER LOADS SHOWN.

10. TRUSS DESIGNER TO COORDINATE BOTTOM AND TOP CHORD BRACING WITH ARCHITECTURAL DRAWINGS, REFER IN PARTICULAR TO RCP AND BUIDLING SECTIONS.

POST-INSTALLED ANCHOR NOTES:

1. ANCHORS TO BE POST-INSTALLED ONLY WHERE INDICATED ON CONSTRUCTION DOCUMENTS. ANY SUBSTITUTE OF CAST-IN ANCHOR TO POST-INSTALLED ANCHORS MUST BE SUBMITTED AS A REQUEST FOR DEVIATION TO THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION.

2. ALL POST INSTALLED ANCHORS INDICATED ON THE DRAWINGS ARE BY HILTI, INC, AND MUST BE CONSIDERED THE BASIS OF DESIGN PRODUCT. WHERE NOT EXPLICITLY INDICATED IN THE DRAWINGS, THE FOLLOWING ANCHORS/ADHESIVES MUST BE USED:
   A. ANCHORAGE TO CONCRETE
      1. ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
         a. HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) AND VC 20/40 VACUUM SYSTEM (VC 20-U OR VC40U) WITH STEEL THREADED ROD PER ICC ESR-3187.
      2. SCREW ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
         a. HILTI KWIK HUS EZ SCREW ANCHORS PER ICC ESR-3027.
   B. REBAR DOWELING INTO CONCRETE
      1. ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
         a. HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) AND VC 20/40 VACUUM SYSTEM (VC 20-U OR VC 40-U) WITH CONTINUOUSLY DEFORMED REBAR PER ICC ESR-3187.
   C. ANCHORAGE TO SOLID GROUTED MASONRY
      1. ADHESIVE ANCHORS USE:
         a. HILTI HIT-HY 270 MASONRY ADHESIVE ANCHORING SYSTEM (ICC PENDING).
         b. STEEL ANCHOR ELEMENT MUST BE HILTI HAS-E CONTINUOUSLY THREADED ROD.
      2. MECHANICAL ANCHORS USE:
         a. HILTI KWIK HUS EZ SCREW ANCHORS PER ICC ESR 3056.
   D. ANCHORAGE TO HOLLOW / MULTI-WYTHE MASONRY
      1. ADHESIVE ANCHORS USE:
         a. HILTI HIT-HY 270 MASONRY ADHESIVE ANCHORING SYSTEM PERICCESR-3342.
         b. STEEL ANCHOR ELEMENT MUST BE HILTI HAS-E CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR.
         c. THE APPROPRIATE SIZE SCREEN TUBE MUST BE USED PER ADHESIVE MANUFACTURER'S RECOMMENDATION.

3. ALTERNATE POST INSTALLED ANCHOR PRODUCTS MAY BE SUBMITTED TO THE ENGINEER FOR REVIEW AND POSSIBLE APPROVAL. ALL SUBSTITUTION REQUESTS MUST BE ACCOMPANIED BY AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE. ALTERNATE PRODUCTS MAY REQUIRE MODIFICATIONS TO ANCHOR DIAMETER, SPACING, AND EMBEDMENT.

4. INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.

5. THE CONTRACTOR MUST ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF ANCHOR INSTALLATION.

6. ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

7. EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR MUST LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS, BY FERROSCAN OR GPR.

8. ALL POST INSTALLED ANCHORS REQUIRE CONTINUOUS SPECIAL INSPECTIONS TO VERIFY INSTALLATION HAS BEEN PERFORMED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. REFERENCE THE STATEMENT AND SCHEDULE OF SPECIAL INSPECTIONS FOR ADDITIONAL INFORMATION.

9. ALL POST INSTALLED ANCHORS REQUIRE CONTINUOUS INSPECTIONS BY THE OWNER'S MATERIALS TESTING AGENCY TO VERIFY INSTALLATION HAS BEEN PERFORMED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.

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115 MacKenan Drive | Cary, NC 27511
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301 N WEST STREET, SUITE 105
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CONFORMED CONSTRUCTION DOCUMENTS

WHITEVILLE COMMUNITY SPACE

907 S MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

NORTH CAROLINA PROFESSIONAL SEAL 053114 ENGINEER STEPHEN N. SPARKS
8/20/2025

SCALE: 1 inch =

THESE DRAWINGS ARE RELEASED FOR THE FOLLOWING USE. ANY OTHER USE OF THESE DRAWINGS IS AT THE RISK OF THE CONTRACTOR OR OTHERS USING THESE DRAWINGS FOR THAT UNAUTHORIZED USE. LYNCH MYKINS IS NOT RESPONSIBLE FOR ADDITIONAL COSTS DUE TO CHANGES, COORDINATION OR ADDITIONAL SCOPE OF WORK REQUIRED DUE TO SUCH UNAUTHORIZED USE.

- [ ] PRELIMINARY BUDGET PRICING
- [ ] EARLY FOUNDATION PACKAGE
- [ ] MILL ORDER PACKAGE
- [ ] EARLY STEEL PACKAGE
- [ ] PERMIT SET
- [ ] CONSTRUCTION SET

WR JOB NUMBER 23-0695
DRN: DGN: CKD:

GENERAL NOTES - BANDSHELL

S0.02

EST 1983

KEY NOTES

100 8" CMU WALL REINFORCED WITH #5 AT 16" OC.
105 8" CONCRETE WALL. REF SECTIONS FOR REINFORCEMENT.
106 30"x30" CONCRETE PIER WITH (8) #7 VERTICAL BARS AND #3 TIES ATE 12" OC.

FOUNDATION PLAN NOTES

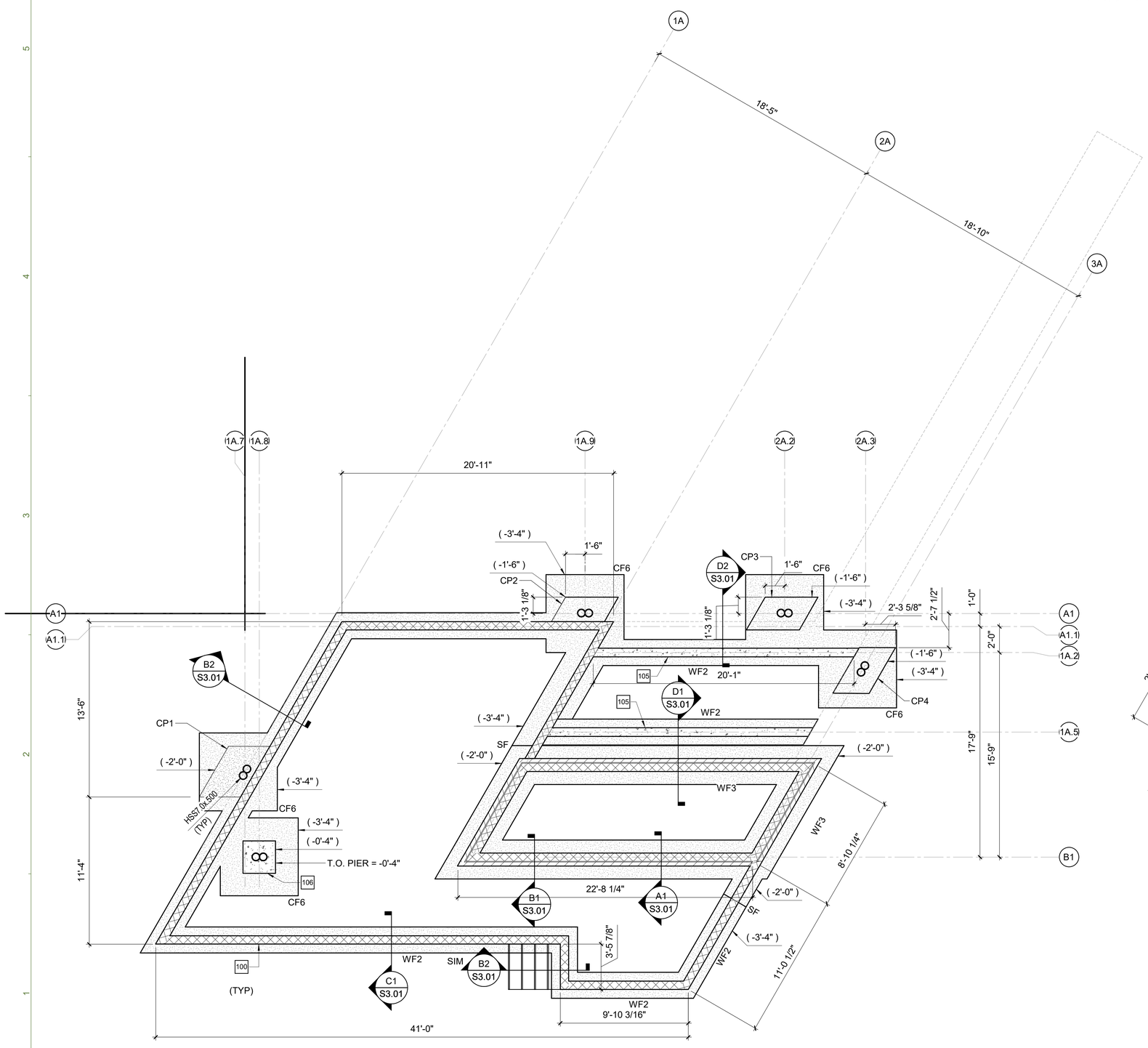
A. UNLESS OTHERWISE NOTED, ALL ELEVATIONS ARE BASED ON A FINISHED FIRST FLOOR REFERENCE OF 0'-0". FINISHED FLOOR ELEVATIONS AT EACH LEVEL ARE INDICATED ON SLAB PLANS. REFERENCE ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR MATERIALS.

B. TOP OF ALL FOOTINGS MUST BE AT ELEVATION -1'-4" UNLESS OTHERWISE NOTED.

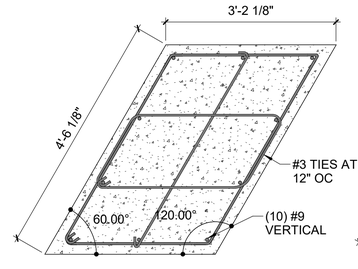
C. NOT ALL UTILITY LOCATIONS ARE SHOWN ON PLAN. THE CONTRACTOR MUST COORDINATE THE LOCATIONS, SIZES, AND INVERTS OF UTILITIES. AT LOCATIONS WHERE UTILITIES PASS BELOW THE TOP OF FOOTING ELEVATION, STEP THE TOP OF FOOTING DOWN ON EACH SIDE PER THE "TYPICAL STEPPED FOOTING DETAIL" AND SLEEVE THE UTILITY THROUGH THE FOUNDATION WALL. THE CONTRACTOR MAY, AT HIS/HER OPTION, SLEEVE THE UTILITY THROUGH THE FOUNDATION PER THE "TYPICAL PIPE SLEEVE AT WALL FOOTING DETAILS."

D. UNLESS OTHERWISE INDICATED, EXTEND WALL FOOTINGS A MINIMUM OF 6 INCHES BEYOND ENDS OF WALLS.

E. DIMENSIONS SHOWN ON FOUNDATION PLAN ARE TO COLUMN GRIDLINES AND OUTSIDE FACE OF FOUNDATION WALLS, UNLESS OTHERWISE NOTED.



1 FOUNDATION PLAN - BANDSHELL
1/4" = 1'-0"



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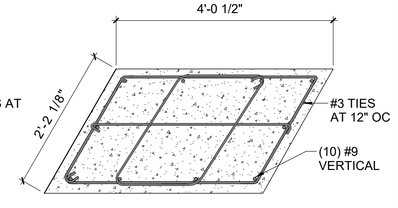

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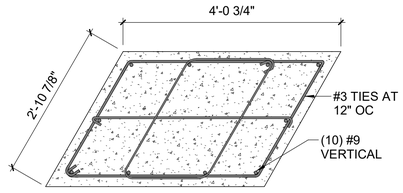

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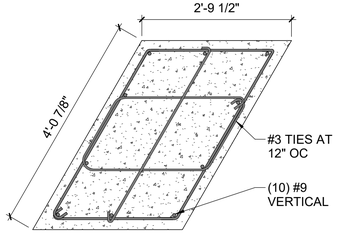

CP4

CONCRETE PIER DETAILS
NTS

COLUMN FOOTING SCHEDULE

MARK	SIZE LENGTH	SIZE WIDTH	SIZE DEPTH	REINFORCING BOTTOM	REINFORCING TOP	REMARKS
CF6	6' - 0"	6' - 0"	2'-0"	(7) #7 EW	(7) #7 EW	-

WALL FOOTING SCHEDULE

MARK	SIZE WIDTH	SIZE DEPTH	REINFORCING CONTINUOUS	REINFORCING TRANSVERSE	REMARKS
WF2	2' - 0"	1'-0"	(3) #5 BOT	#5 AT 12" OC BOT	-
WF3	3' - 0"	1'-0"	(4) #5 BOT	#5 AT 12" OC BOT	-

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115 MacKenan Drive | Cary, NC 27511
License #: F-1479 | t: 919.469.3340 | www.withersravenel.com
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lynchmykins now IMEG
301 N WEST STREET, SUITE 105
RALEIGH, NC 27603
919.702.1553 www.imegcorp.com

CONFORMED CONSTRUCTION DOCUMENTS

WHITEVILLE COMMUNITY SPACE

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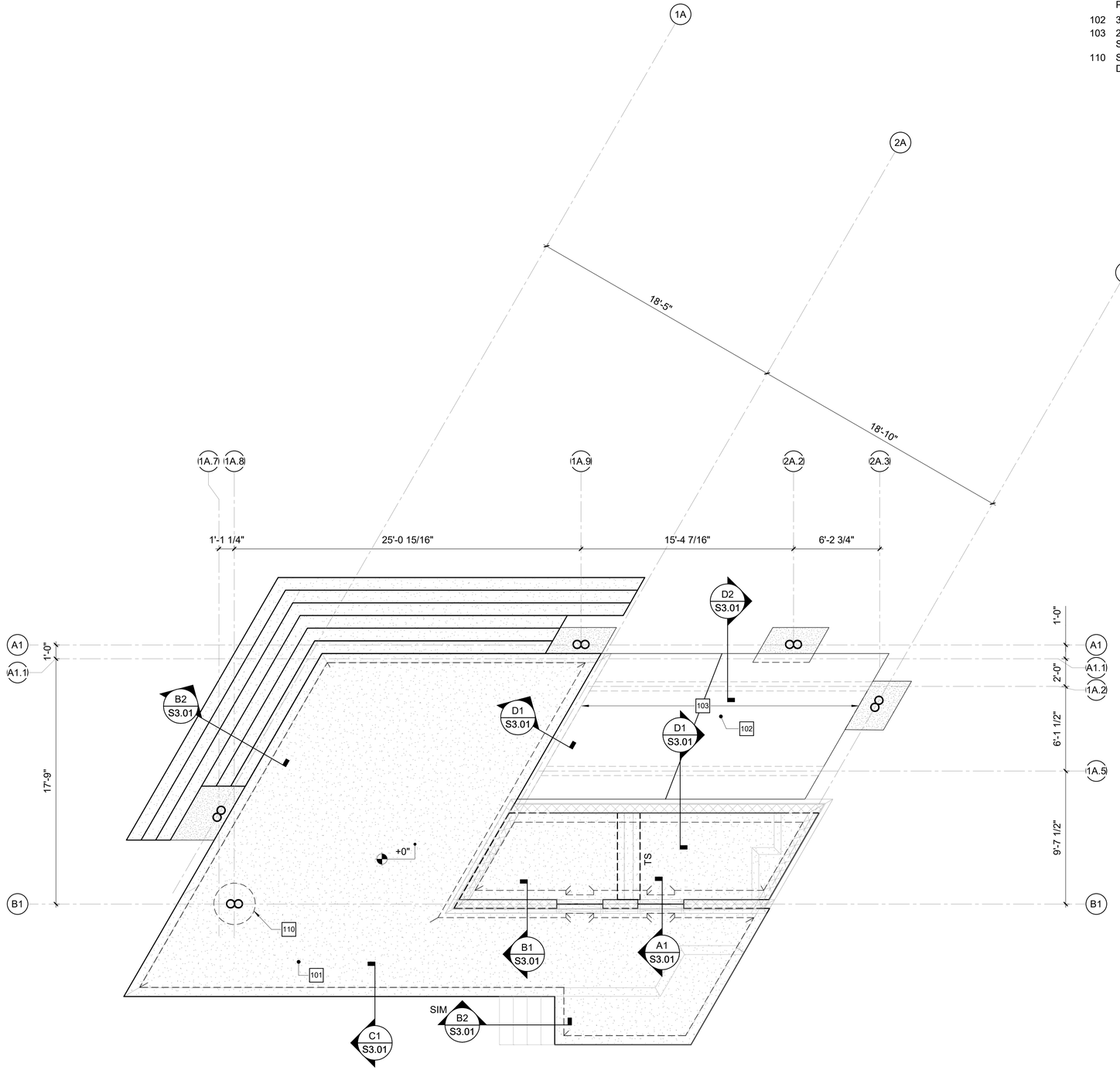
NORTH CAROLINA REGISTERED SEAL 053114 ENGINEER STEPHEN N. SPARKS
9/20/2025

SCALE: 1 inch =

WR JOB NUMBER 23-0605
DRN: DGN: CKD:

FOUNDATION PLAN - BANDSHELL

S1.01



KEY NOTES

101 4" CONCRETE SLAB-ON-GRADE OVER 4" DEPTH OF POROUS FILL UNLESS OTHERWISE INDICATED. REINFORCE SLAB EITH 6x6-W2.9xW2.9 WELDED WIRE REINFORCING PLACED 1" BELOW TOP OF SLAB. MAINTAIN REINFORCEMENT IN POSITION ON BOLSTERS, CHAIRS OR SPACERS DURING CONCRETE PLACEMENT.

102 3x6 TONGUE AND GROVE DECKING.

103 2x12 AT 12" OC. SPRUCE PINE FIR SOUTH #2 REF SECTIONS FOR BEAM ATTACHEMENTS.

110 SLAB CONTROL JOINTS REFERENCE ARCHITECTURAL DRAWINGS.

SLAB PLAN NOTES

A. UNLESS OTHERWISE NOTED, ALL ELEVATIONS ARE BASED ON A FINISHED FIRST FLOOR REFERENCE OF 0'-0". FINISHED FLOOR ELEVATIONS AT EACH LEVEL ARE INDICATED ON SLAB PLANS. REFERENCE ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR MATERIALS.

C. REFERENCE ARCHITECTURAL DRAWINGS FOR EXACT LIMITS OF SLAB DEPRESSIONS AND OMITTED SLABS.

D. FLOOR SINKS AND DRAINS ARE NOT SHOWN ON PLAN. REFERENCE PME DRAWINGS FOR LOCATIONS.

E. REFERENCE CIVIL AND LANDSCAPE DRAWINGS FOR EXTERIOR CONCRETE SLABS AND PAVING.

F. SLAB-ON-GRADE JOINTS MUST BE SAWED JOINTS OR KEYED CONSTRUCTION JOINTS, UNLESS OTHERWISE NOTED. CONTRACTOR MUST COORDINATE ALL SLAB JOINTS WITH JOINTS IN BONDED FLOOR FINISHES. REFERENCE ARCHITECTURAL DRAWINGS FOR FLOOR FINISH JOINT LOCATIONS.

G. PLACE (1) #4 x 3'-0" IN MIDDEPTH OF SLAB AT RE-ENTRANT CORNERS WHERE A SLAB JOINT DOES NOT occur.

1 SLAB PLAN - BANDSHELL
1/4" = 1'-0"

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907 S MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

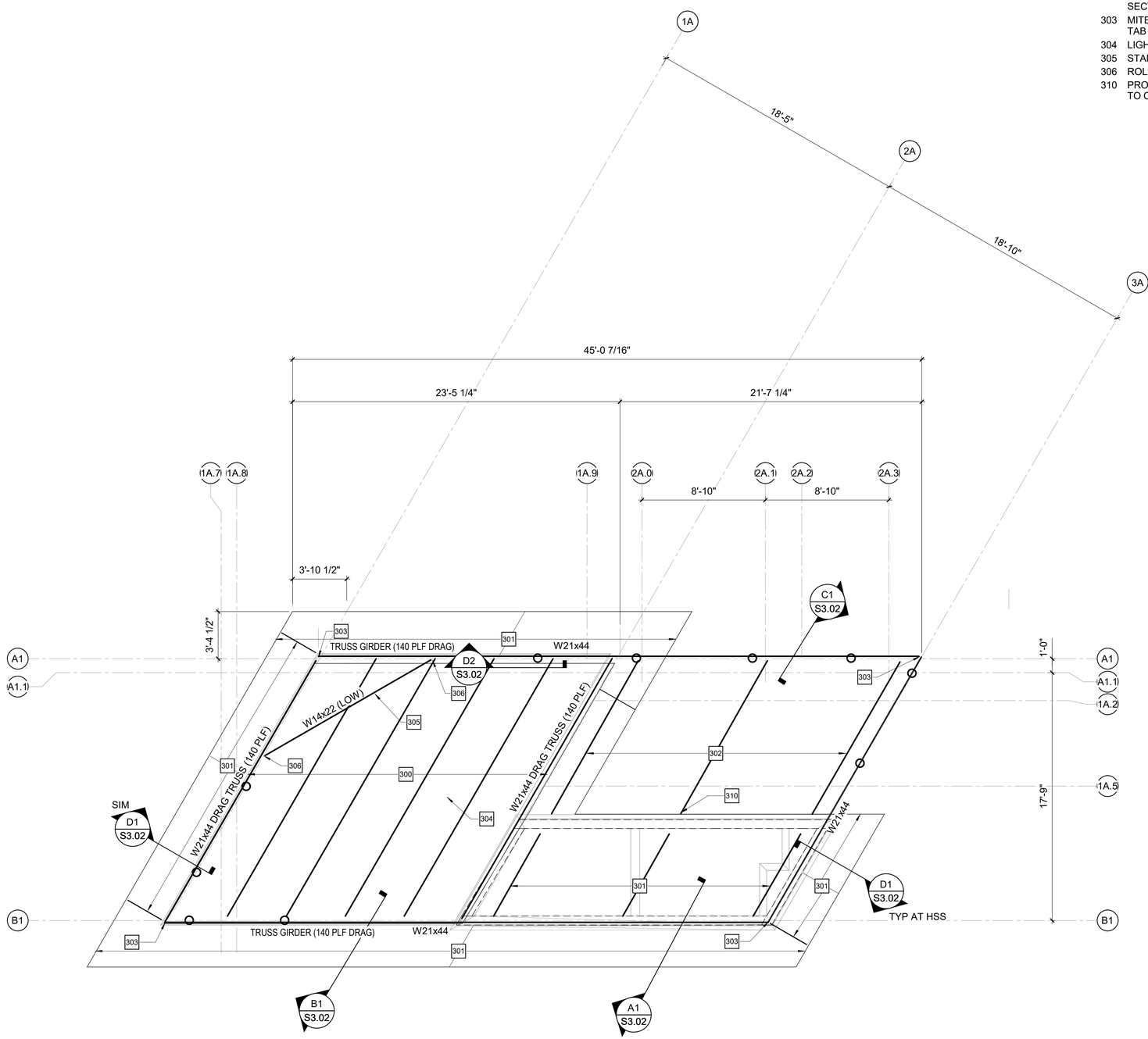
NORTH CAROLINA PROFESSIONAL SEAL 053114 ENGINEER STEPHEN N. SPARKS
8/20/2025

SCALE: 1 inch =

WR JOB NUMBER 23-0695
DRN: DGN: CKD:

SLAB PLAN - BANDSHELL

S1.02



KEY NOTES

300 PREFABRICATED WOOD ROOF TRUSS BY MANUFACTURER. TRUSSES AT 4'-0" OC

301 2x6 AT 16" OC. SPRUCE PINE FIR SOUTH #2 REF SECTIONS FOR BEAM ATTACHEMENTS.

302 2x10 AT 16" OC. SPRUCE PINE FIR SOUTH #2 REF SECTIONS FOR BEAM ATTACHMENTS.

303 MITER EACH EDGE AND PROVIDE STANDARD SHEAR TAB CONNECTION.

304 LIGHT MOUNTING BEAM.

305 STANDARD SHEAR TAB CONNECTION.

306 ROLLED L6x6x3/8 GALVANIZED AT ROOF OPENING.

310 PROVIDE FACE-MOUNT HANGERS HU210 AT RAFTER TO CMU WALL CONNECTION.

FRAMING PLAN NOTES

A. REFERENCE FOUNDATION PLAN AND ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.

B. TOP OF FINISHED FLOOR ELEVATION MUST BE AS NOTED ON SLAB PLANS.

C. AT STEEL ROOF FRAMING, BOTTOM OF DECK ELEVATIONS ARE SHOWN ON PLAN. INTERMEDIATE ELEVATIONS MUST BE STRAIGHT LINES BETWEEN GIVEN ELEVATIONS. INTERPOLATE AS REQUIRED FOR INTERMEDIATE BEARING ELEVATIONS, UNLESS OTHERWISE NOTED.

D. COORDINATE AND VERIFY ALL MEMBER LOCATIONS, DIMENSIONS, WEIGHTS, OPENING SIZES, AND CURB DIMENSIONS FOR ALL MECHANICAL EQUIPMENT WITH THE ACTUAL EQUIPMENT FURNISHED. INCLUDE THIS INFORMATION ON THE JOIST AND STRUCTURAL STEEL SHOP DRAWINGS.

E. PREFABRICATED WOOD TRUSSES AT [24"] ON-CENTER.

1 ROOF FRAMING PLAN - BANDSHELL
1/4" = 1'-0"

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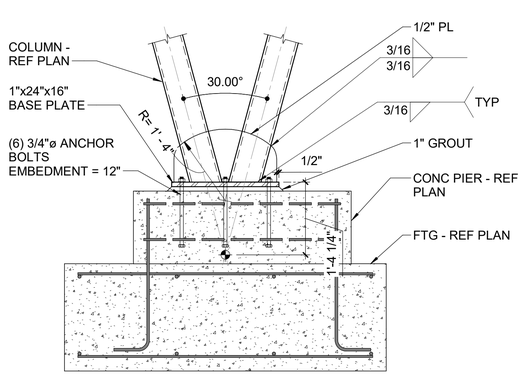
WR JOB NUMBER 23-0695
DRN: DGN: CKD:

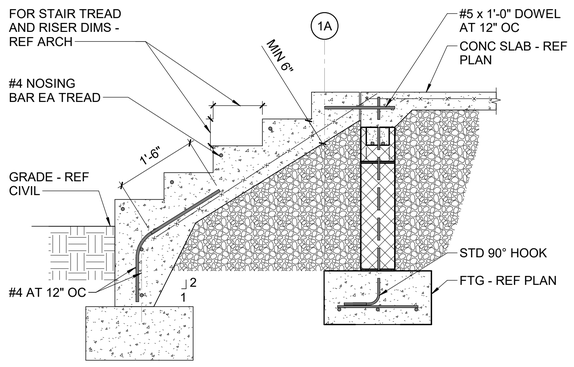
FRAMING PLAN - BANDSHELL

S1.03

EST 1983



A2 SECTION
3/4" = 1'-0"



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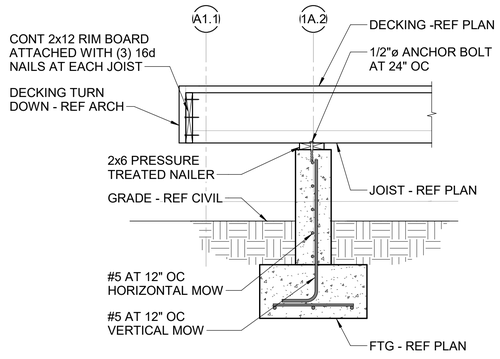

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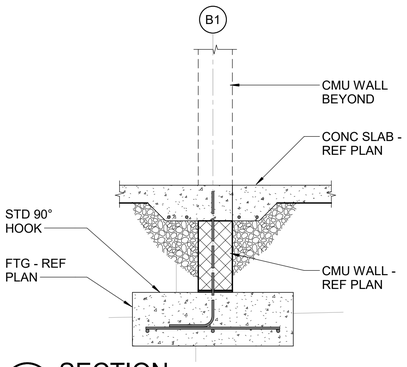

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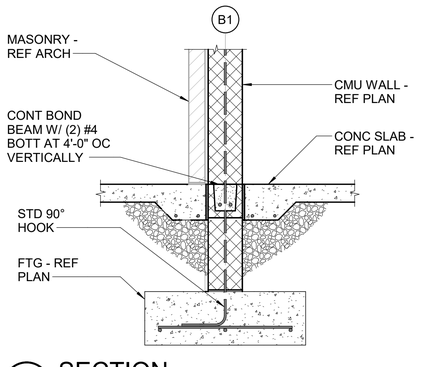

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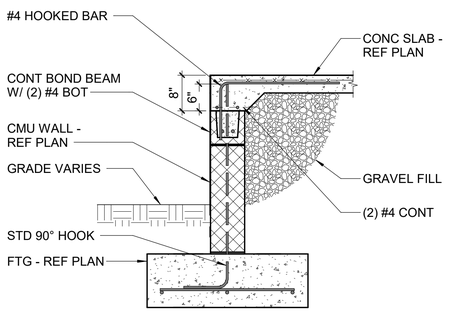

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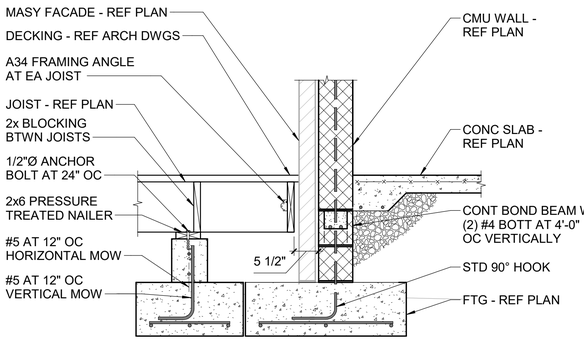

D1 SECTION
3/4" = 1'-0"

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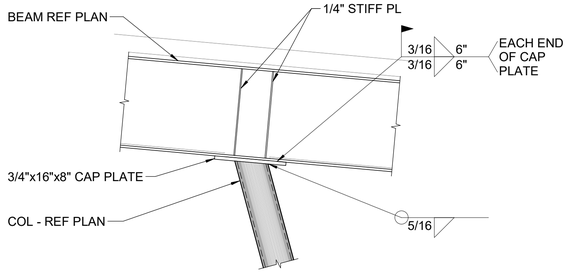
DRN: DGN: CKD:

SECTIONS

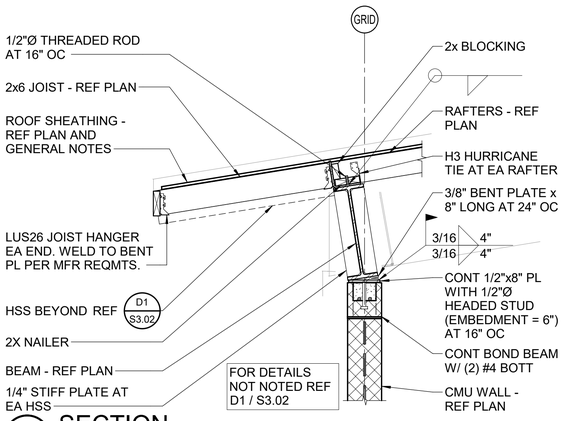
S3.01

EST. 1983



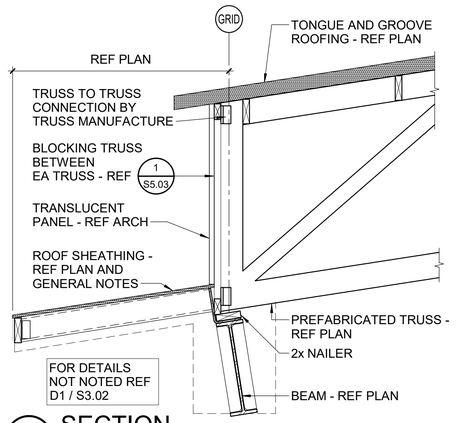
D2 TYPICAL COLUMN CAP PLATE CONNECTION DETAILS

3/4" = 1'-0"



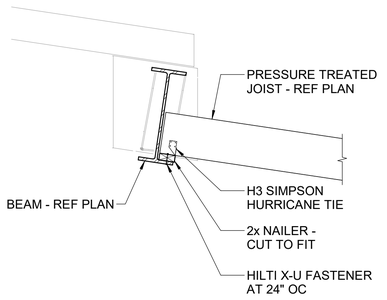
A1 SECTION

3/4" = 1'-0"



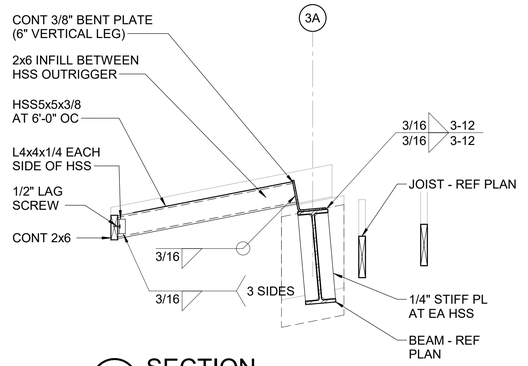
B1 SECTION

3/4" = 1'-0"



C1 SECTION

3/4" = 1'-0"



D1 SECTION

3/4" = 1'-0"

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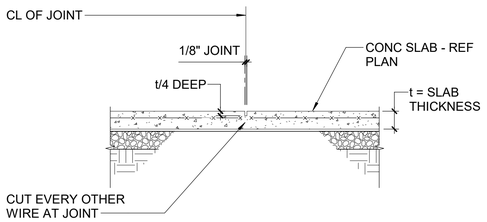
SOUTH CAROLINA SEAL 053114 ENGINEER STEPHEN N. SPRING
8/20/2025

SCALE: 1 inch =

WR JOB NUMBER	23-0695	
DRN:	DGN:	CKD:

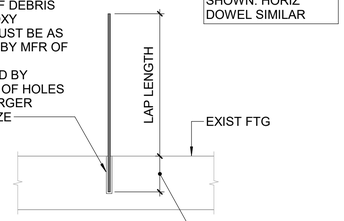
SECTIONS

S3.02



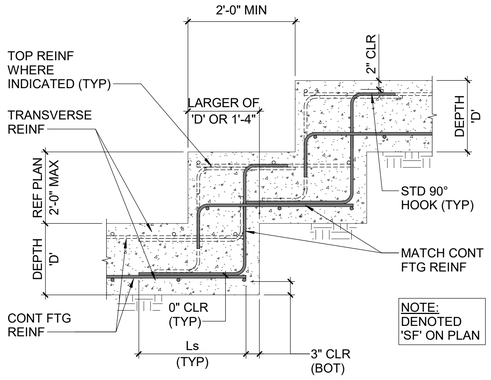
8 TYPICAL SAWED JOINT DETAIL
NTS

- DRILL HOLES INTO EXIST FTG TO RECEIVE DOWELS
- CLEAN HOLES THOROUGHLY OF DEBRIS AND FILL W/ EPOXY
- DIA OF HOLES MUST BE AS RECOMMENDED BY MFR OF EPOXY MATL
- IF NOT SPECIFIED BY EPOXY MFR, DIA OF HOLES MUST BE 1/8" LARGER THAN DOWEL SIZE



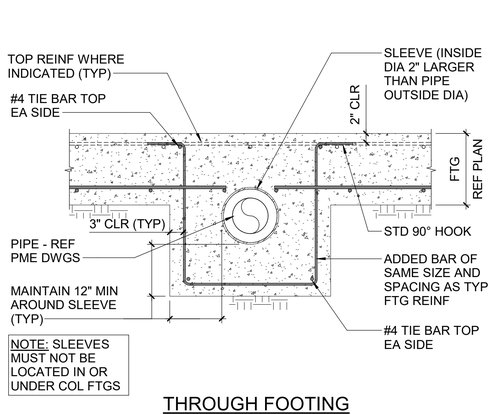
NOTE: VERT DOWEL SHOWN. HORIZ DOWEL SIMILAR

5 TYPICAL EPOXY DOWEL DETAIL
NTS



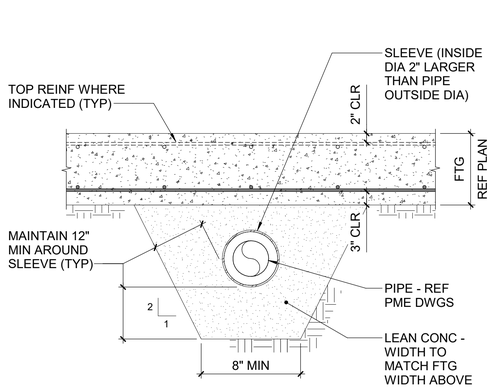
NOTE: DENOTED 'SF' ON PLAN

6 TYPICAL STEPPED WALL FOOTING DETAIL
NTS



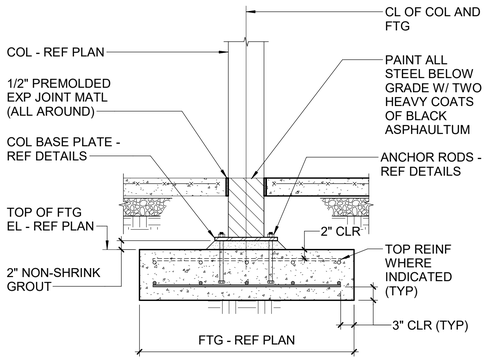
NOTE: SLEEVES MUST NOT BE LOCATED IN OR UNDER COL FTGS

THROUGH FOOTING

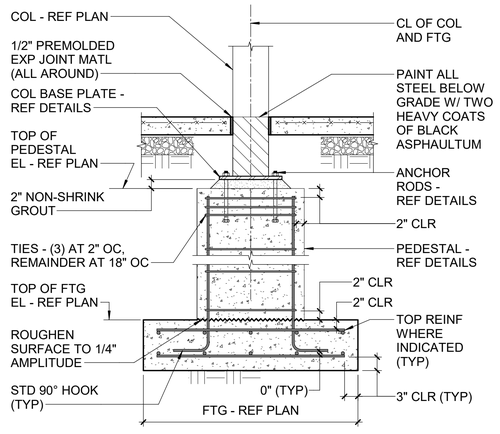


BELOW FOOTING

7 TYPICAL PIPE SLEEVE AT WALL FOOTING DETAILS
NTS



1 TYPICAL COLUMN & FOOTING DETAIL
NTS



2 TYPICAL COLUMN & FOOTING DETAIL
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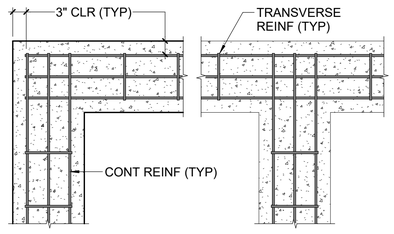
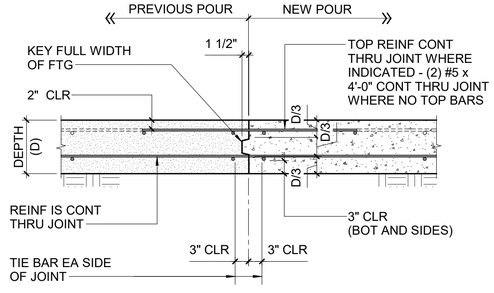


3 TYPICAL WALL FOOTING CORNER & INTERSECTION DETAILS
NTS



4 TYPICAL WALL FOOTING CONSTRUCTION JOINT DETAIL
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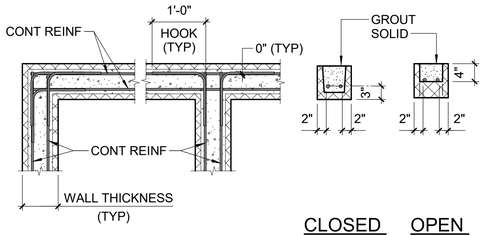
NORTH CAROLINA PROFESSIONAL SEAL 053114 ENGINEER STEPHEN N. SPARKS
8/20/2025

SCALE: 1 inch =

WR JOB NUMBER 23-0695
DRN: DGN: CKD:

TYPICAL DETAILS

S5.01

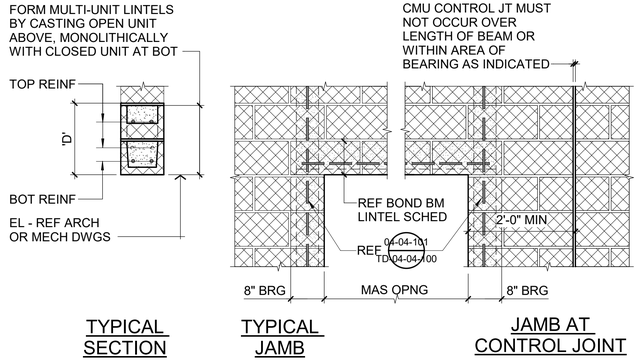


CORNER INTERSECTION CLOSED BOTTOM OPEN BOTTOM

6 TYPICAL BOND BEAM REINFORCING DETAILS
NTS

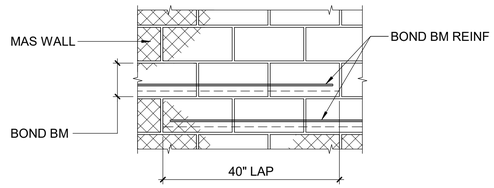
BOND BEAM LINTEL SCHEDULE				
CLEAR SPAN	DEPTH 'D'	REINFORCING		
		6" CMU	8"&10" CMU	12" CMU
0" TO 3'-4"	8"	(1) #4 BOT	(2) #4 BOT	(2) #5 BOT
3'-5" TO 5'-4"	8"	(1) #5 BOT	(2) #5 BOT	(2) #5 BOT
5'-5" TO 6'-8"	16"	(1) #5 BOT	(2) #5 BOT	(2) #5 BOT
6'-9" TO 8'-0"	16"	(1) #5 T&B	(2) #5 T&B	(2) #5 T&B

NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS; FOR DUCT OPENINGS REFER TO MECHANICAL DRAWINGS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR WIDTH OF LINTEL.
3. SCHEDULE APPLIES ONLY TO LINTELS NOT OTHERWISE SHOWN ON THE DRAWINGS.



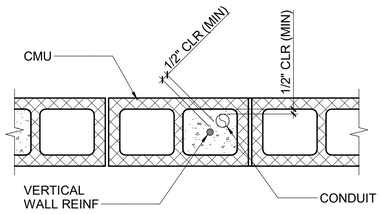
TYPICAL SECTION TYPICAL JAMB JAMB AT CONTROL JOINT

7 BOND BEAM LINTEL DETAILS
NTS



8 TYPICAL STEPPED BOND BEAM DETAIL
NTS

NOTES:
1. LOCATE CONDUIT IN UNREINFORCED CELLS TO EXTENT POSSIBLE.
2. DO NOT PLACE CONDUIT PASSING HORIZONTALLY THROUGH PLANE OF WALL WITHOUT WRITTEN APPROVAL.
3. CONDUIT SIZES GREATER THAN OR EQUAL TO 1 1/2" DIAMETER MUST BE PLACED IN UNREINFORCED CELLS.



PLAN

4 TYPICAL EMBEDDED CONDUIT IN MASONRY DETAIL
NTS

CONDUIT SIZE	AREA OF DISPLACEMENT (SINGLE CONDUIT)
1/2"Ø	0.196 in²
3/4"Ø	0.442 in²
1"Ø	0.785 in²
1 1/4"Ø	1.227 in²

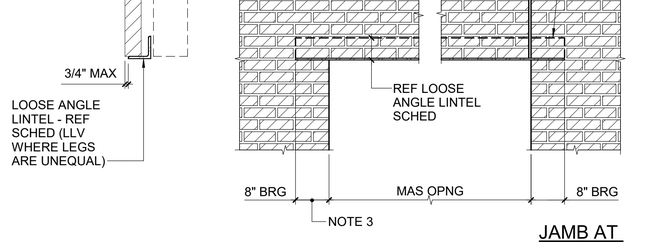
TOTAL DISPLACEMENT CALC
1/2"Ø + 3/4"Ø CONDUIT IN SAME CELL =
0.196 in² + 0.442 in² = 0.638 in²

NOMINAL CMU SIZE	MAXIMUM AREA OF GROUT DISPLACEMENT*
4"	0.284 in²
6"	0.456 in²
8"	0.646 in²
10"	0.884 in²
12"	1.132 in²
14"	1.380 in²
16"	1.628 in²

NOTE *: PER ACI 530.1

LOOSE ANGLE LINTEL SCHEDULE	
CLEAR SPAN	SIZE
0 TO 3'-4"	L4x4x1/4
3'-5" TO 5'-4"	L4x4x3/8
5'-5" TO 6'-8"	L6x4x3/8

NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS.
2. LINTEL SCHEDULE APPLIES ONLY TO LINTEL ANGLES NOT OTHERWISE DETAILED.
3. WHERE JAMBS BETWEEN ADJACENT OPENINGS IS 16" OR LESS, PROVIDE CONT ANGLES.

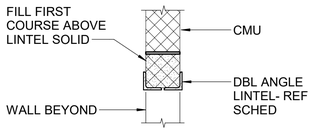


TYPICAL SECTION TYPICAL JAMB JAMB AT CONTROL JOINT

5 TYPICAL LOOSE ANGLE LINTELS IN BRICK WALLS
NTS

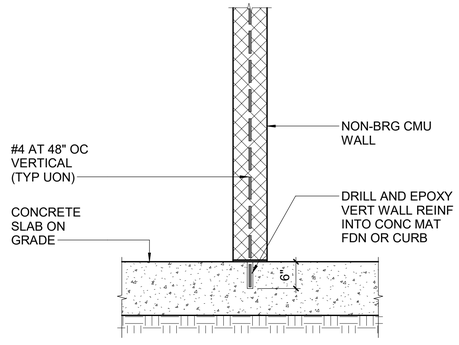
NOTES:
1. BEAR LINTELS 8" ON MASONRY EACH END.
2. AT THE CONTRACTOR'S OPTION, THE LINTELS SHOWN IN THE ALTERNATE LINTEL SCHEDULE MAY BE USED FOR MECHANICAL OPENINGS IN LIEU OF THE BOND BEAM LINTELS AT LOCATIONS WHERE THE HEAD OF THE OPENINGS ARE CONCEALED.
3. LOCATE OPENINGS AWAY FROM ALL JOIST/BEAM BEARINGS. REFER TO ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR EXACT LOCATION OF OPENINGS.

ALTERNATE LINTEL SCHEDULE	
CLEAR SPAN	LINTEL SIZE
0 TO 3'-4"	DBL L4x4x3/8
3'-5" TO 6'-0"	DBL L6x4x3/8 (LLV)



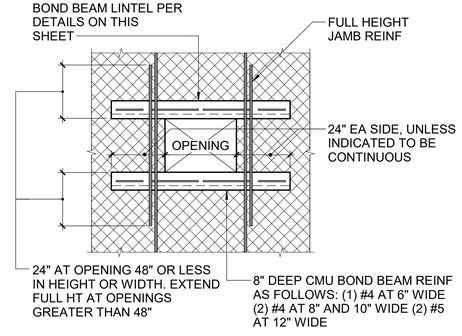
SECTION

1 ALTERNATE LINTEL SCHEDULE AND SECTION
NTS



BASE OF WALL AT FOUNDATION

2 TYPICAL NON-BEARING MASONRY PARTITION CONNECTION DETAILS
NTS



3 TYPICAL MASONRY REINFORCING AT WALL OPENING DETAIL
NTS

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CONFORMED CONSTRUCTION DOCUMENTS

WHITEVILLE COMMUNITY SPACE

907 S MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

NORTH CAROLINA PROFESSIONAL SEAL 053114 ENGINEER STEPHEN N. SPARKS
9/20/2025

SCALE: 1 inch =

WR JOB NUMBER 23-0695
DRN: DGN: CKD:

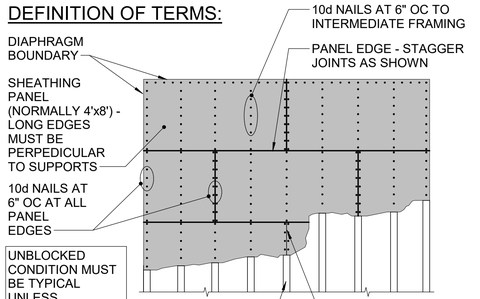
TYPICAL DETAILS

S5.02

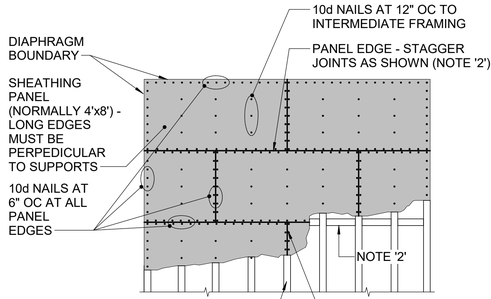
SHEATHING NOTES:
1. THE LATERAL LOADS ON THIS BUILDING ARE RESISTED BY A COMBINATION OF "DIAPHRAGM" ACTION OF THE FLOOR AND ROOF TO TRANSMITT LOADS IN THE HORIZONTAL PLANES, AND THE SHEARWALLS TO TRANSMIT LOADS IN THE VERTICAL PLANES.

2. ALL NON-SUPPORTED PANEL EDGES MUST BE BLOCKED WITH 2" NOMINAL OR WIDER FRAMING.

DEFINITION OF TERMS:

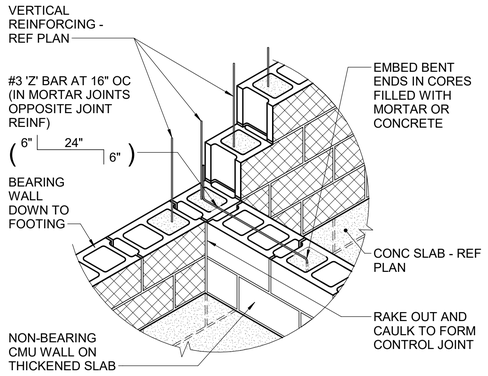


UNBLOCKED EDGES

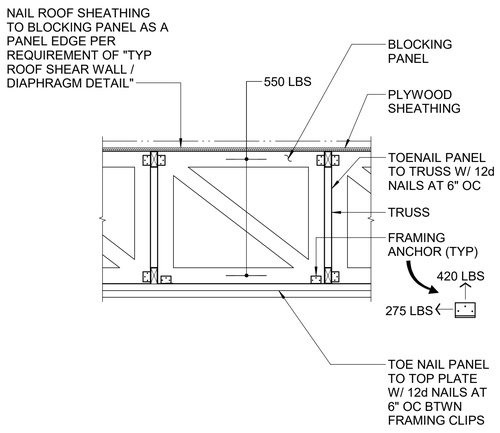


BLOCKED EDGES

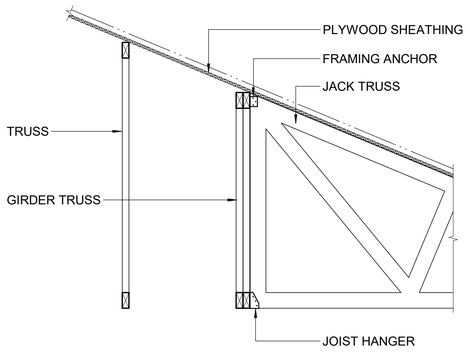
5 TYPICAL FLOOR/ROOF SHEATHING DETAILS
NTS



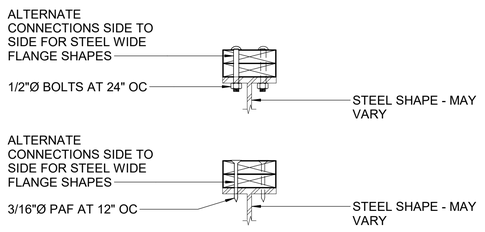
6 TYPICAL DETAIL AT INTERSECTION OF BEARING AND NON-BEARING CMU WALLS
NTS



1 TYPICAL BLOCKING PANEL DETAIL
NTS

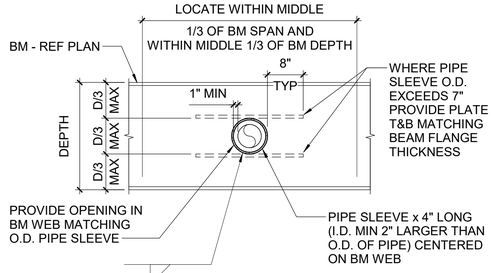


2 TYPICAL GIRDER TRUSS CONNECTION DETAIL
NTS



3 TYPICAL CONNECTION OF WOOD BLOCKING TO STEEL FRAMING DETAILS
NTS

NOTES:
1. CONTRACTOR TO SEND LOCATIONS OF PIPE PENETRATIONS TO STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
2. PENETRATIONS MUST BE SHOP CUT / PUNCHED.
3. DO NOT OVER CUT OPENING. EDGES OF OPENING MUST BE SMOOTH AND FREE OF BURS OR DEFECTS. GRIND SMOOTH AS REQUIRED.
4. CUTTING IN THE FIELD IS ONLY PERMITTED WITH PRIOR APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD. THERMAL CUTTING OF STEEL IN FIELD IS NOT PERMITTED UNDER ANY CIRCUMSTANCES.



4 TYPICAL BEAM PENETRATION DETAIL
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NORTH CAROLINA PROFESSIONAL SEAL 053114 ENGINEER STEPHEN N. SPARKS
8/20/2025

SCALE: 1 inch =

WR JOB NUMBER 23-0695
DRN: DGN: CKD:

TYPICAL DETAILS

S5.03

PLUMBING LEGEND

SYMBOL SCHEDULE

- DOMESTIC COLD WATER
- DOMESTIC HOT WATER SUPPLY
- DOMESTIC HOT WATER RETURN
- WASTE
- VENT
- PIPE ELBOW TURNS DOWN; UP
- PIPE TEES DOWN; UP
- PIPE CAP
- BALL VALVE
- CHECK VALVE
- CIRCUIT SETTER
- FCO — FLOOR CLEANOUT
- CO — END-OF-LINE CLEANOUT
- CLEANOUT AT FINISH WALL (WCO)

ABBREVIATIONS

AFC	ABOVE FINISH CEILING	HD	HUB DRAIN
AFF	ABOVE FINISH FLOOR	GCO	GRADE CLEANOUT
AFG	ABOVE FINISH GRADE	HWS	HOT WATER SUPPLY
AFH	ANTI-FREEZE HYDRANT	HWR	HOT WATER RETURN
AAV	AIR ADMITTANCE VALVE	IW	INDIRECT WASTE
BFF	BELOW FINISHED FLOOR	LAV	LAVATORY
CI	CAST IRON	TYP	TYPICAL
CO	CLEANOUT	UR	URINAL
CW	COLD WATER	V	VENT
DNT	DO NOT TAP	VTR	VENT THRU ROOF
EWC	ELECTRIC WATER COOLER	W	WASTE
(EX)	EXISTING	WC	WATER CLOSET
FCO	FLOOR CLEANOUT	WCO	WALL CLEANOUT
FD	FLOOR DRAIN	WHA	WATER HAMMER ARRESTOR
FDP	FLOOR DRAIN PARKING		
FPHB	FREEZE-PROOF HOSE BIBB	YCO	YARD CLEANOUT
GPH	GALLONS PER HOUR		
HB	HOSE BIBB		

- CONNECT TO EXISTING
- POINT OF DEMOLITION

GENERAL PLUMBING NOTES

1. NOT ALL SYMBOLS AND ABBREVIATIONS SHOWN ON THIS DRAWING MAY BE USED ON THIS PROJECT.
2. ALL PLUMBING WORK SHALL BE FURNISHED AND INSTALLED PER THE STATE OF NORTH CAROLINA BUILDING CODE: PLUMBING CODE 2018.
3. UNLESS OTHERWISE NOTED ON DRAWINGS, ALL 1½"-2½" SANITARY WASTE AND VENT PIPING SHALL BE RUN AT ¼" PER FT SLOPE. ALL 3"-6" SANITARY WASTE AND VENT PIPING SHALL BE RUN AT ⅛" PER FT SLOPE. ALL WASTE AND VENT PIPING 8" OR LARGER SHALL BE RUN AT 1/16" PER FT SLOPE. ALL STORM DRAINAGE PIPING SHALL BE RUN AT ⅛" PER FT SLOPE.
4. THE DESIGN/DETAIL/SCHEDULE SHOWN IS BASED ON (MANUFACTURER, MODEL) EQUIPMENT AND IS INTENDED ONLY TO SHOW THE GENERAL SIZE, CONFIGURATION, LOCATION, CONNECTIONS, AND/OR SUPPORT FOR EQUIPMENT OR SYSTEMS SPECIFIED WITH RELATION TO THE OTHER BUILDING SYSTEMS.
5. INSTALL ALL PIPING AT THE MAXIMUM ELEVATION POSSIBLE. PROVIDE ALL FITTINGS, TRANSITIONS AND MATERIALS REQUIRED TO ACHIEVE MAXIMUM ELEVATION. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO THE START OF WORK TO AVOID CONFLICTS.
6. CONTRACTOR SHALL FURNISH ALL DISCONNECTS REQUIRED FOR PLUMBING EQUIPMENT.
7. CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL MANUFACTURER SUBSTITUTIONS OF PLUMBING EQUIPMENT. SUBMIT A DESCRIPTION OF ANY/ALL CHANGES REQUIRED BY THE SUBSTITUTION, INCLUDING ELECTRICAL AND MECHANICAL CONNECTIONS, SIZES, WEIGHTS, AND CLEARANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL COST ASSOCIATED WITH THE SUBSTITUTION.
8. THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES AND REGULATIONS. THE CONTRACTOR SHALL INFORM THE ARCHITECT AND/OR ENGINEER OF ANY CONFLICTS AS SOON AS THEY ARE DETECTED.
9. INVERTS LISTED ARE MINIMUM EXPECTATIONS FOR COORDINATION SITE UTILITIES. IF ACTUAL INSTALL REQUIRES DEEPER INVERTS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH OTHER TRADES.
10. THESE DRAWINGS ARE NECESSARILY DIAGRAMMATIC IN NATURE. NOT ALL FITTINGS, OFFSETS, VENTS, OR DRAINS ARE SHOWN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING AND INCLUDE ALL FITTINGS, OFFSETS, VENTS, AND DRAINS AS REQUIRED TO PROVIDE A COMPLETE AND FUNCTIONING SYSTEM.
11. REFER TO SPECIFICATIONS FOR SEISMIC BRACING REQUIREMENTS ON ALL PLUMBING SYSTEMS.

GENERAL REQUIREMENTS: REFER TO PROJECT MANUAL FOR COMPLETE JOB SPECIFICATIONS

1.1 SUPPLY WATER PIPING SCHEDULE

A. Transition and special fittings with pressure ratings at least equal to piping rating may be used in applications below unless otherwise indicated.

B. Flanges and unions may be used for aboveground piping joints unless otherwise indicated.

C. Under-building-slab, domestic water, building service piping, NPS 3 and smaller, shall be the following:

1. Soft copper tube, ASTM B 88, Type K; wrought-copper solder-joint fittings; and brazed joints.
2. Concrete-lined DIP with integral flanges. "Mega Lug" - type fittings will not be accepted.

D. Aboveground domestic water piping, NPS 1" and smaller except for flush valves shall be the following:

1. Hard copper tube, ASTM B 88, Type L wrought-copper solder-joint fittings; and soldered joints.

E. Aboveground domestic water piping, NPS 1¼ " and larger and for all flush valves shall be the following:

1. Hard copper tube, ASTM B 88, Type M copper with brazed joints and fittings.

2.1 WASTE AND VENT PIPING APPLICATIONS

A. Special pipe fittings with pressure ratings at least equal to piping pressure ratings may be used in applications below, unless otherwise indicated.

B. Above ground Waste, Vent piping

1. No-Hub Schedule 40 Cast Iron.

C. Underground soil, waste, and vent piping NPS 5 (DN 125) and smaller shall be the following:

1. Schedule 40 PVC DWV.

3.1 INDOOR PIPING INSULATION SCHEDULE

A. Domestic Hot Water: Insulation shall be the following:

1. Mineral-Fiber, Preformed Pipe Insulation, Type I: 1 inch thick.
2. Exposed piping shall be painted. Color to be selected by Architect.
3. Provide pipe labels: Domestic Hot Water.

B. Domestic Cold Water (Potable): Insulation shall be the following:

1. Mineral-Fiber, Preformed Pipe Insulation, Type I: 1 inch thick.
2. Exposed piping shall be painted. Color to be selected by Architect.
3. Provide pipe labels: Domestic Cold Water.

3.2 INSULATION AND JACKETING

A. All exposed shall have two layers of canvas jacket, painted. Color to be selected by Architect.

3.3 PIPE HANGER AND SUPPORT INSTALLATION

A. Pipe Hanger Installation: Comply with MSS SP-69 and MSS SP-89. Install hangers, supports, clamps, and attachments as required to properly support piping from building structure.

B. Fastener System Installation:

1. Install powder-actuated fasteners in concrete after concrete is placed and completely cured. Use operators that are licensed by powder-actuated tool manufacturer. Install fasteners according to powder-actuated tool manufacturer's operating manual.
2. Install mechanical-expansion anchors in concrete after concrete is placed and completely cured. Install fasteners according to manufacturer's written instructions.

F. Install hangers and supports complete with necessary inserts, bolts, rods, nuts, washers, and other accessories.

G. Install hangers and supports to allow controlled thermal movement of piping systems, to permit freedom of movement between pipe anchors, and to facilitate action of expansion joints, expansion loops, expansion bends, and similar units.

H. Install building attachments within concrete slabs or attach to structural steel. Install additional attachments at concentrated loads, including valves, flanges, and strainers, and at changes in direction of piping. Install concrete inserts before concrete is placed; fasten inserts to forms and install reinforcing bars through openings at top of inserts.

I. Load Distribution: Install hangers and supports so piping live and dead loads and stresses from movement will not be transmitted to connected equipment.

J. Pipe Slopes: Install hangers and supports to provide indicated pipe slopes and so maximum pipe deflections allowed by ASME B31.9 (for building services piping) are not exceeded.

K. Insulated Piping: Comply with the following:

1. Attach clamps and spacers to piping.
   a. Piping Operating above Ambient Air Temperature: Clamp may project through insulation.
   b. Piping Operating below Ambient Air Temperature: Use thermal-hanger shield insert with clamp sized to match OD of insert.
   c. Do not exceed pipe stress limits according to ASME B31.9 for building services piping.
2. Install MSS SP-58, Type 39, protection saddles. Fill interior voids with insulation that matches adjoining insulation.
3. Install MSS SP-58, Type 40, protective shields on cold piping with vapor barrier. Shields shall span an arc of 180 degrees.
4. Shield Dimensions for Pipe: Not less than the following:
   a. NPS 1/4 to NPS 3-1/2: 12 inches long and 0.048 inch thick.
5. Insert Material: Length at least as long as protective shield.
6. Thermal-Hanger Shields: Install with insulation same thickness as piping insulation.

ESTIMATED BUILDING WATER DEMANDS

Load Values in Water Supply Fixture Units

FIXTURE TYPE	No.	Hot	Cold	Total	SUBTOTAL F.U.'s
WATER CLOSET (F.V.) Public	1		10	10	10
WATER CLOSET (F.V.) Private			6	6	
WATER CLOSET (F.T.)Public			5	5	
WATER CLOSET (F.T.)Private			2.2	2.2	
URINALS (F.V.)1"			10	10	
URINALS (F.V.)3/4"			5	5	
LAVATORY (PUBLIC)	1	1.5	1.5	2	2
LAVATORY (PRIVATE)		0.5	0.5	0.7	
SHOWER HEAD (PUBLIC)		3	3	4	
SHOWER HEAD (PRIVATE)		1	1	2	
BATH TUB(Private)		1	1	1.4	
BATH TUB(public)		3	3	4	
Custom Fixture					
COMMERCIAL SINK - 3 COMP.		3	3	4	
COMMERCIAL SINK - FOOD PREP		2.25	2.25	3.4	
COMMERCIAL SINK - 2 COMP		2	2	3	
COMMERCIAL SINK - 1 COMP		1.5	1.5	2	
HAND WASH SINK		1.5	1.5	2	
KITCHEN SINK(private)		1	1	1.4	
KITCHEN SINK(hotel-rest.)		3	3	4	
Custom Fixture					
DISHWASHER COMMERCIAL		6		6	
DISHWASHER - RESIDENTIAL		1.4		1.4	
WASHING MACHINE (Private-8lb)		1	1	1.4	
WASHING MACHINE (Public 8lb)		2.25	2.25	3	
WASHING MACHINE (Public 15lb)		3	3	4	
MOP SINK/Service sink	1	2.25	2.25	3	3
ELECTRIC WATER COOLER			0.25	0.25	
HOSE BIBB / WALL HYDRANT	2		2	2	4
		3.75			19
					TOTAL F.U.'s
Fixture Demand (GPM)	34				
Continuous Demands					
SERVICE LINE FLOW	34				
BUILDING LINE SIZE	1 1/2"				
CODE	NCPC2018				

SANITARY SERVICE CALCULATIONS

BUILDING D.F.U. DEMANDS

FIXTURE TYPE	No.	DFU VALUE	SUBTOTAL DFU
WATER CLOSET (F.V.) Public	1	4	4
WATER CLOSET (F.V.) Private		4	
WATER CLOSET (F.T.)		4	
URINALS (F.V.)		2	
LAVATORY (PUBLIC)	1	1	1
LAVATORY (PRIVATE)		1	
SHOWER HEAD (PUBLIC)		2	
SHOWER HEAD (PRIVATE)		2	
BATH TUB		2	
Custom Fixture			
COMMERCIAL SINK - 3 COMP.		3	
COMMERCIAL SINK - FOOD PREP		3	
COMMERCIAL SINK - 2 COMP		3	
COMMERCIAL SINK - 1 COMP		3	
HAND WASH SINK		2	
KITCHEN SINK		2	
Custom Fixture			
DISHWASHER COMMERCIAL		6	
DISHWASHER - RESIDENTIAL		2	
WASHING MACHINE (Private)		3	
WASHING MACHINE (Public)		2	
MOP SINK	1	2	2
FLOOR DRAINS	2	2	4
ELECTRIC WATER COOLER		0.5	
Waste calculated on Trap Sizing:			
TRAP < 1-1/4		1	
UP TO 1-1/2		2	
UP TO 2		3	
UP TO 2-1/2		4	
UP TO 3		5	
UP TO 4		6	

CODE	NCPC2018	**TOTAL DFU**	11
BUILDING SEWER SIZE	4	**SLOPE**	0.125
SLAB THICKNESS	4	**LENGTH**	
COVER (CLEAR)	3	**FALL**	1/8
MATERIAL THICKNESS	11	**DEPTH (FT)**	0.93

1 / M0.01 PLUMBING COVER SHEET - BAND SHELL

Sigma Engineered Solutions, PC
N.C. LICA-C-3490
9801 Kincey Avenue, Bldg 1
Suite 151
Huntersville, NC 28078
Ph. 919.840.8300
Fax 919.840.8350
www.sigmaes.com
Sigma Project # 2508

WithersRavenel
115 MacKenan Drive | Cary, NC 27511
License #: F-1479 | t: 919.469.3340 | www.withersravenel.com

CONFORMED CONSTRUCTION DOCUMENTS

WHITEVILLE COMMUNITY SPACE

907 S MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

Elton L. Smith — Digitally signed by Elton L. Smith, Date: 2025.08.19 08:57:57 -04'00'
SEAL 034274 ENGINEER ELTON L. SMITH

INITIAL PLAN DATE: 08/25/2025
REVISIONS:

WR JOB NUMBER 23-0695
DRN: DGN: CKD:

PLUMBING LEGEND AND NOTES

P0.01

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	FIXTURE				FAUCET					REMARKS	COMPLIES WITH ADA
		SPECIFICATION/DESCRIPTION	SAN	VENT	PICTURE	DESCRIPTION	COLD WATER	HOT WATER	FLOW RATE	PICTURE		
WC-1	WALL MOUNTED WATER CLOSET & FLUSHOMETER COMBO ADA COMPLIANT	SLOAN WETS-2023.1006 COMBO WHITE VITREOUS CHINA, PROVIDE HIGH EFFICIENCY ELONGATED BOWL WITH 2⅛" TRAPWAY, FLOOR MOUNTED, FLOOR OUTLET. PROVIDE COMPLETE WITH FLUSHOMETER AND SEAT.	4"	2"		SLOAN CROWN 111 FLUSHOMETER 1.6 GPF, NON-HOLD-OPEN HANDLE WITH SYNTHETIC RUBBER DIAPHRAGM.	1"	-	1.6 GPF	-	PROVIDE ANTI-MICROBIAL, HEAVY DUTY, OPEN FRONT SEAT, COLOR WHITE.	
LAV-1	WALL HUNG SINK	SLOAN SS-3106-STG WALL HUNG SINK, REAR DRAIN, BARRIER FREE, WITH SINGLE CENTERSET, WHITE VITREOUS CHINA, PROVIDE WITH REAR OVERFLOW AND CARRIER.	1½"	1¼"		ZURN ZG6950 "SERIO" SENSOR FAUCET WITH GEAR-DRIVEN CERAMIC CARTRIDGE. PROVIDE 0.5GPM VANDAL RESISTANT AERATOR, MATCHING STRAINER, AND BELOW DECK THERMOSTATIC MIXING VALVE.	½"	½"	0.5GPM		PROVIDE WITH KEYED ½" STOPS, AND P-TRAP w/CLEANOUT. PROVIDE WITH SLOAN THERMOSTATIC MIXING VALVE. SET TEMPERATURE TO 110° MAX. FAUCET SHALL BE COMPLETE WITH STANDARD HYDROPOWER MODULE WITH BATTERY BACKUP. PROVIDE COMPLETE WITH PVC TRAP AND SUPPLY WRAP KIT TO COMPLY WITH ADA.	
JS-1	JANITORS SINK	FIAT "BERKELEY" - MODEL2424 6" DEEP. 24"X24" TERRAZZO SERVICE BASIN. COMPLETE WITH STAINLESS STEEL STRAINER, HOSE, HOSE BRACKET, MOP HANGER, AND STAINLESS STEEL WALL GUARDS.	3"	2"		PROVIDE STERN WILLIAMS T-10-VB SERVICE SINK FAUCET WITH ADJUSTABLE TOP BRACE VACUUM BREAKER AND BUCKET HOOK.	½"	½"	1.6GPM		REFER TO ARCHITECTURAL PLANS FOR WALL FINISHED AT JANITOR'S SINK.	-
FD-1	FLOOR DRAIN	ZURN Z415B FLOOR DRAIN WITH ADJUSTABLE STRAINER. 6" ROUND NICKEL BRONZE STRAINER. PROVIDE WITH P-TRAP.	3"	1½"		-	-	-	-	-	REFER TO DRAWING DETAILS COORDINATE WITH GEN. CONSTR. WORK TO SET THE FLOOR DRAIN FLUSH WITH FIN. FLOOR ADJUSTED FOR FLOOR SLOPE REQUIRED.	-
HB-1	HOSE BIBB	INTERIOR DUTY, POLYCARBONATE WHEEL HANDLE AND LOOSE TEE KEY	-	-		WOODFORD 24 FINISH: POLISHED CHROME	¾"	-	-	-	COORDINATE MOUNTING HEIGHT WITH WITH OWNER. REMOVE HANDLE AND RETURN TO OWNER ALONG WITH LOOSE TEE KEY.	-
NFWH	NON-FREEZE WALL HYDRANT	FREEZELESS, BRASS	-	-		B65 FINISH: BRASS	¾"	-	-	-	COORDINATE MOUNTING HEIGHT WITH ARCHITECT.	-

ELECTRIC WATER HEATER SCHEDULE

MARK	LOCATION	SPECIFICATION/DESCRIPTION	GALLON CAPACITY	1ST HOUR RATING GALLONS	UEF	RECOVERY GAL./HR @ 90°	ELECTRICAL SERVICE			DIMENSIONS		REMARKS
							VOLTS	PHASE	WATTS	DIAMETER	HEIGHT	
EWH-1	JANITOR	AO SMITH PROLINE EJC-6	6	--	--	8	120	1	1650	14-1/4"	15-1/4"	PROVIDE COMPLETE WITH EXPANSION TANK AND P&T RELIEF VALVE. PROVIDE COMPLETE WITH WALL BRACKET. REFER TO MOUNTING DETAILS.
IWH-1	TOILET	CHRONOMITE ELECTRIC TANKLESS WATER HEATER MODEL #M-20L/120	--	--	--	0.4	120	1	2400	--	--	2-3/4" W X 9-5/8" D X 6-1/4" H POINT OF USE WATER HEATER. INSTALL PER MANUFACTURERS SPECIFICATIONS MOUNT IN SERVICEABLE LOCATION BELOW LAV-1. SET MAX. TEMP AT 110° F.

BACK FLOW PREVENTION SCHEDULE

MARK	LOCATION	SPECIFICATION/DESCRIPTION	SIZE	REMARKS
RPZ-1	JANITOR	WATTS LF009M2QT	1-1/2"	INSTALL PER MANUFACTURER AND LOCAL CODES, LEAD FREE DESIGN, P.C. MAY PROVIDE SEPARATE ITEMS TO MAKE SIMILAR ASSEMBLY THAT MUST INCLUDE A REDUCED PRESSURE ZONE ASSEMBLY WITH STRAINER. INSTALL 48" AFF.

1 M0.04 PLUMBING SCHEDULES - BAND SHELL

Sigma Engineered Solutions, PC
N.C. LICA-C-3490
9801 Kincey Avenue, Ste
Suite 151
Huntersville, NC 28078
Ph. 919.840.8300
Fax 919.840.8350
www.sigmaes.com
Sigma Project # 23056

WithersRavenel
115 MacKenan Drive | Cary, NC 27511
License # F-1479 | t: 919.469.3340 | www.withersravenel.com

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Elton L Smith

Digitally signed by Elton L Smith
Date: 2025.08.19 09:58:37 -04'00'

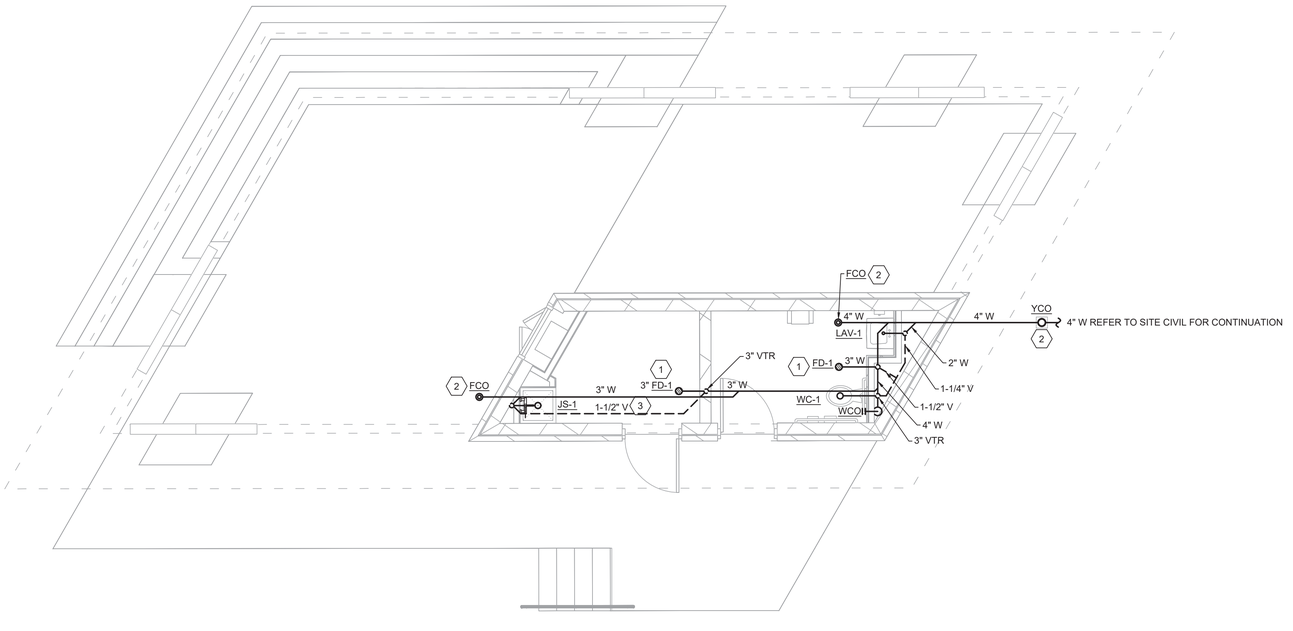
SEAL 034274 ENGINEER ELTON L SMITH

INITIAL PLAN DATE: 08/25/2025
REVISIONS:

WR JOB NUMBER 23-0695
DRN: DGN: CKD:

PLUMBING SCHEDULES

P0.04



1 P2.00 WASTE AND VENT NEW WORK PLAN - BAND SHELL

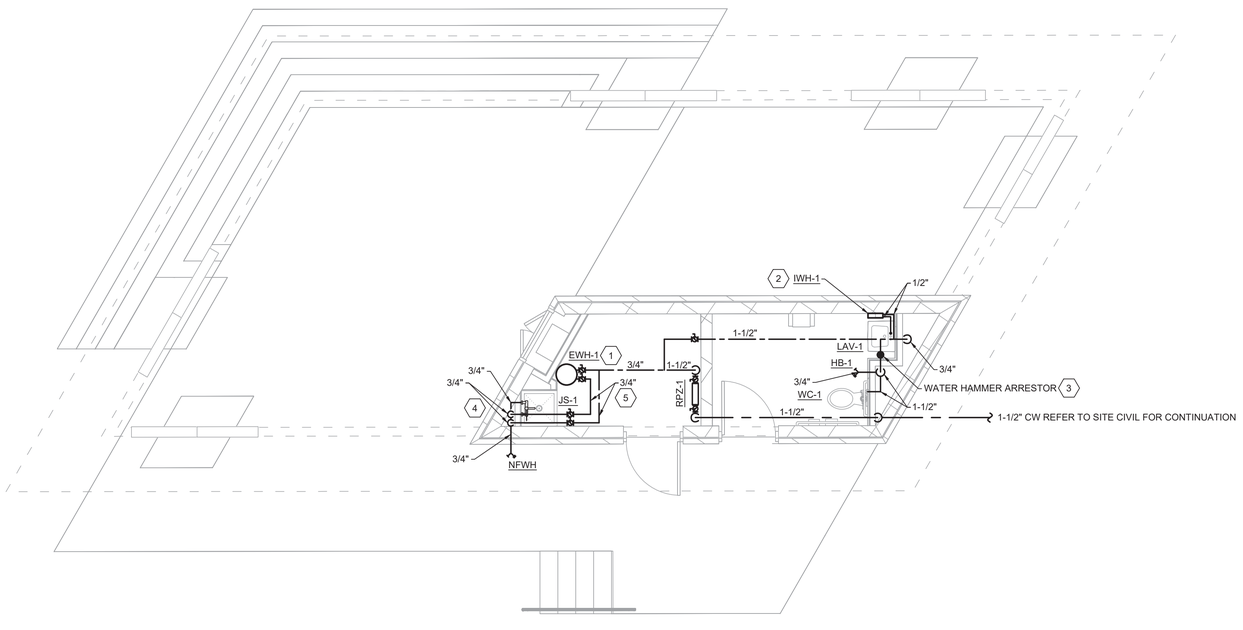
SCALE : 1/4" = 1'-0"

GENERAL NOTES :

1. DRAWINGS ARE DIAGRAMMATIC IN NATURE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE PIPE LOCATIONS WITH OTHER TRADES PRIOR TO BEGINNING WORK.
2. COORDINATE LOCATION AND MOUNTING HEIGHT OF ALL EQUIPMENT AND FIXTURES WITH ARCHITECTURAL DRAWINGS PRIOR TO BEGINNING WORK.

WASTE & VENT KEYED NOTES:

1. COORDINATE FLOOR DRAIN LOCATION AND FLOOR SLOPE WITH ARCHITECTURAL PLANS.
2. FLOOR AND YARD CLEANOUT COVER SHALL BE BRONZE CHECKERED SERVICE DUTY, FLUSH WITH FINISHED FLOOR.
3. COORDINATE JS-1 VENT WITH WATER HEATER AND MECHANICAL EQUIPMENT.



2 P2.00 WATER NEW WORK PLAN - BAND SHELL

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

WATER KEYED NOTES:

1. NEW WALL MOUNTED ELECTRIC WATER HEATER. REFER TO DETAIL FOR ADDITIONAL PIPING, ACCESSORIES, AND WALL BRACKET. INSTALL PER MANUFACTURERS WRITTEN INSTRUCTIONS.
2. NEW WALL MOUNTED POINT OF USE WATER HEATER BELOW LAVATORY. REFER TO DETAIL FOR ADDITIONAL PIPING AND ACCESSORIES. INSTALL PER MANUFACTURERS WRITTEN INSTRUCTIONS.
3. MOUNT WATER HAMMER ARRESTOR IN AN ACCESSIBLE LOCATION. SIZE PER DETAIL SHEET P500.
4. 3/4" HOT AND COLD DOMESTIC WATER SERVING HOSE BIBB AND JANITORS SINK TO BE ROUTED IN CHASE.
5. COORDINATE LOCATION OF HOT AND COLD DOMESTIC WATER WITH EXHAUST FAN. REFER TO MECHANICAL DRAWINGS FOR LOCATION. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR (DIV. 23).

Sigma Engineered Solutions, PC
NC: LCM-C-0490
9801 Kincey Avenue, Suite 101
Huntersville, NC 28078
Ph: 919.840.8300
Fax: 919.840.8301
www.sigmaes.com
Sigma Project # 23008

WithersRavenel
115 MacKenan Drive | Cary, NC 27511
License #: F-1479 | t: 919.469.3340 | www.withersravenel.com

CONFORMED CONSTRUCTION DOCUMENTS

WHITEVILLE COMMUNITY SPACE

907 S MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

Elton L. Smith

Digitally signed by Elton L. Smith
Date: 2025.08.19 09:58:51 -04'00'

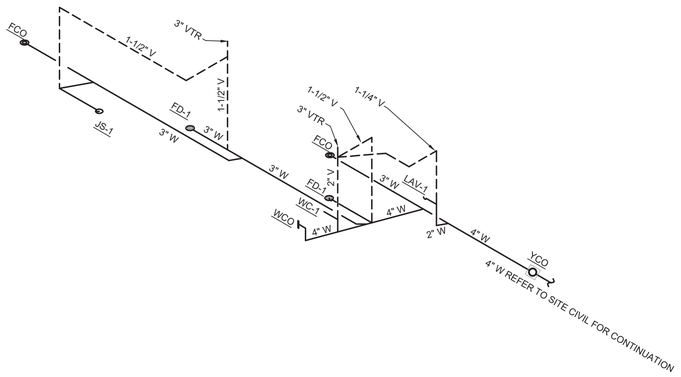
SEAL 034274 ENGINEER ELTON L. SMITH

INITIAL PLAN DATE: 08/25/2025
REVISIONS:

WR JOB NUMBER 23-0695
DRN: DGN: CKD:

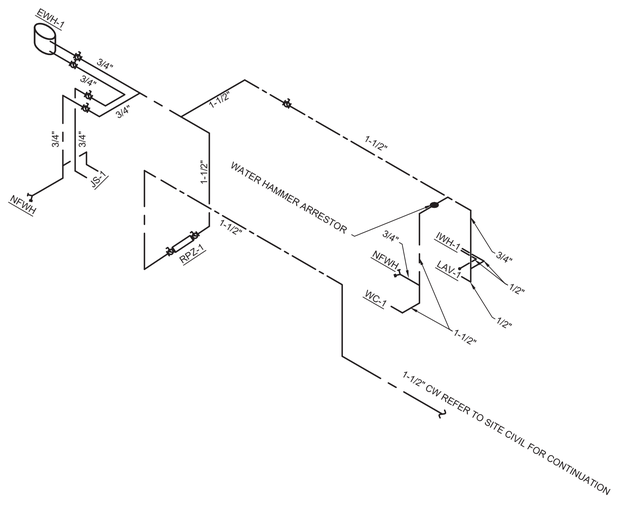
PLUMBING NEW WORK PLANS

P2.00



1 P4.00 WASTE AND VENT RISER DIAGRAM - BAND SHELL

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



2 P4.00 WATER RISER DIAGRAM - BAND SHELL

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

Sigma Engineered Solutions, PC
NC: C-0436 | SC: 2436
9801 Kincey Avenue, Suite 101
Huntersville, NC 28078
Ph. 919.840.8300
Fax. 919.840.8301
www.sigmaes.com
Sigma Project # 23008

WithersRavenel
115 MacKenan Drive | Cary, NC 27511
License #: F-1479 | t: 919.469.3340 | www.withersravenel.com

CONFORMED CONSTRUCTION DOCUMENTS

WHITEVILLE COMMUNITY SPACE

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Elton L Smith

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Date: 2025.08.19 09:59:13 -04'00'

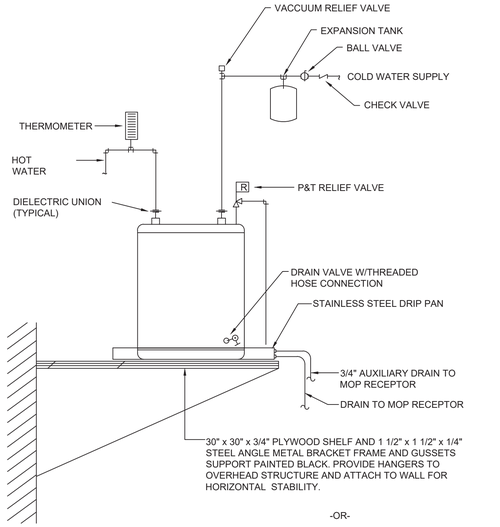
SEAL 034274 ENGINEER ELTON L SMITH

INITIAL PLAN DATE: 08/25/2025
REVISIONS:

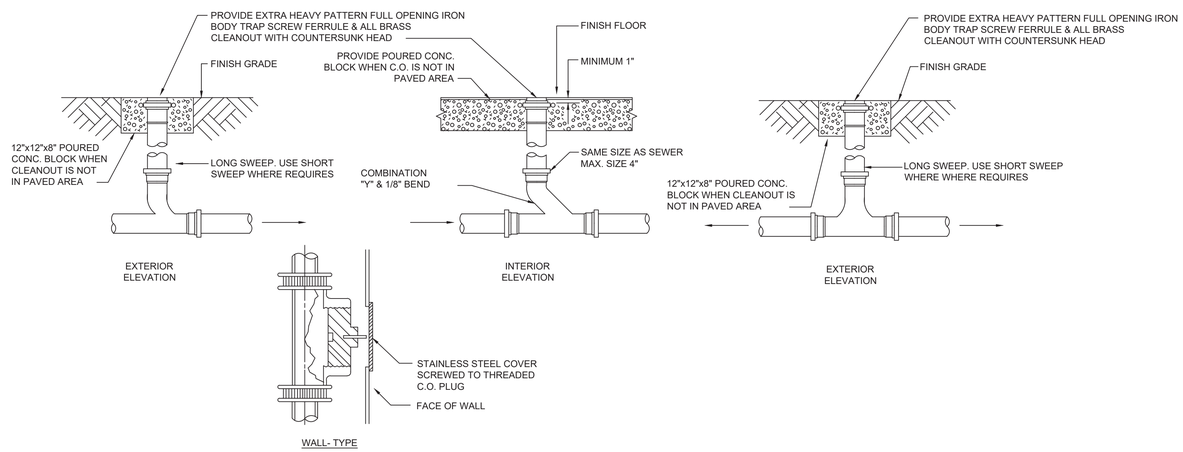
WR JOB NUMBER 23-0695
DRN: DGN: CKD:

PLUMBING RISER DIAGRAMS

P4.00



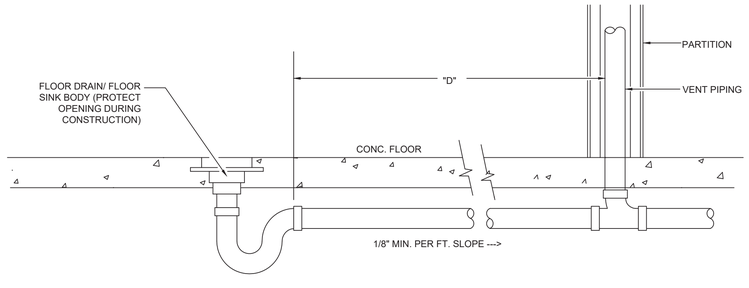
1 P5.00 **ELECTRIC WATER HEATER DETAIL**
Scale: NONE



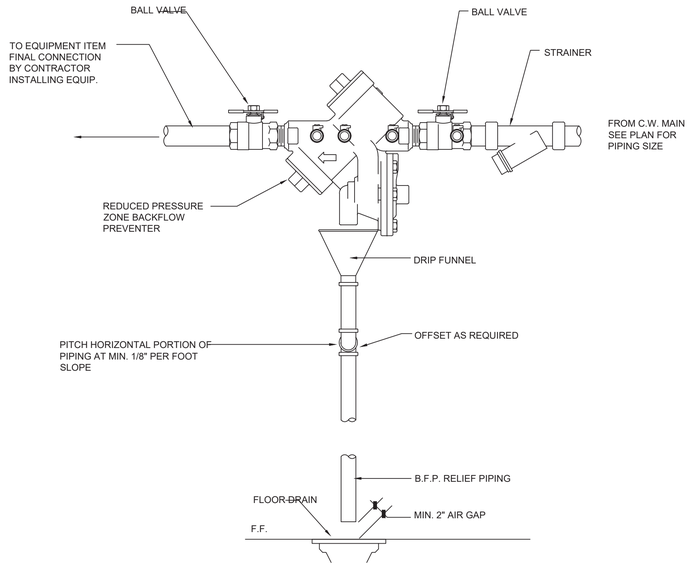
2 P5.00 **TYPICAL CLEANOUT DETAIL**
Scale: NONE

MAXIMUM TRAP TO VENT DISTANCES

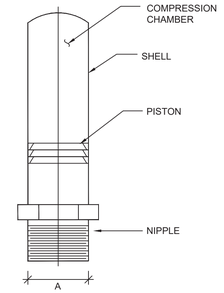
PIPE SIZE	DISTANCE(D)
2"	8'-0"
3"	10'-0"
4"	12'-0"



3 P5.00 **TYPICAL VENTING (FLOOR DRAIN) DETAIL**
Scale: NONE



4 P5.00 **R.P.Z. BACKFLOW PREVENTER DETAIL**
Scale: NONE



PLUMBING CONTRACTOR SHALL INSTALL SHOCK ARRESTOR ACCORDING TO THE NORTH CAROLINA STATE BUILDING CODE: PLUMBING CODE 2018. FLUSH VALVES SHALL BE CONSIDERED AS A QUICK CLOSING VALVE ALSO P.C. SHALL INSTALL IN AN UPRIGHT POSITION AND EITHER IN AN ACCESSIBLE PIPE CHASE OR ABOVE THE CEILING OUTSIDE THE PIPE CHASE. PROVIDE AN APPROVED TYPE CEILING ACCESS DOOR IF THE SHOCK ARRESTOR IS NOT ABOVE A LAY-IN CEILING.

JOSAM NO.	P.D.I. SIZE	FIXTURE UNIT RATING	A SIZE
75001-S	A	1-11	1/2
75002-S	B	12-32	3/4
75003-S	C	33-60	1
75004-S	D	61-113	1
75005-S	E	114-154	1
75006-S	F	155-330	1

5 P5.00 **WATER HAMMER ARRESTOR DETAIL**
Scale: NONE

Sigma Engineered Solutions, PC
N.C. LICA-C-3490
9801 Kincey Avenue, Suite 151
Huntersville, NC 28078
Ph: 919.840.8300
Fax: 919.840.8350
www.sigmaes.com
Sigma Project # 23056

WithersRavenel
115 MacKenan Drive | Cary, NC 27511
License #: F-1479 | t: 919.469.3340 | www.withersravenel.com

CONFORMED CONSTRUCTION DOCUMENTS
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SEAL 034274 ENGINEER ELTON L. SMITH

INITIAL PLAN DATE: 08/25/2025
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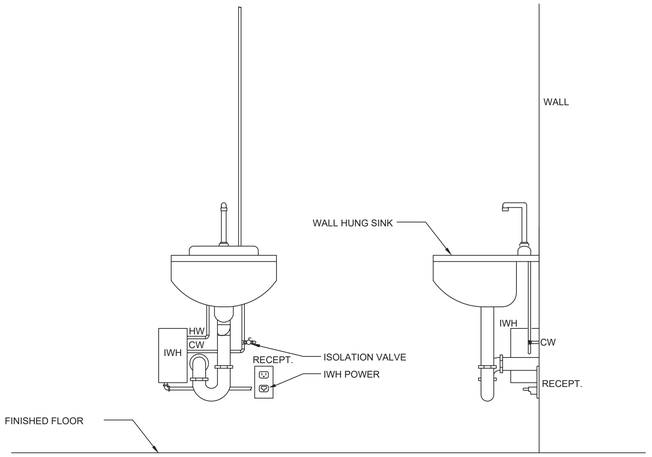
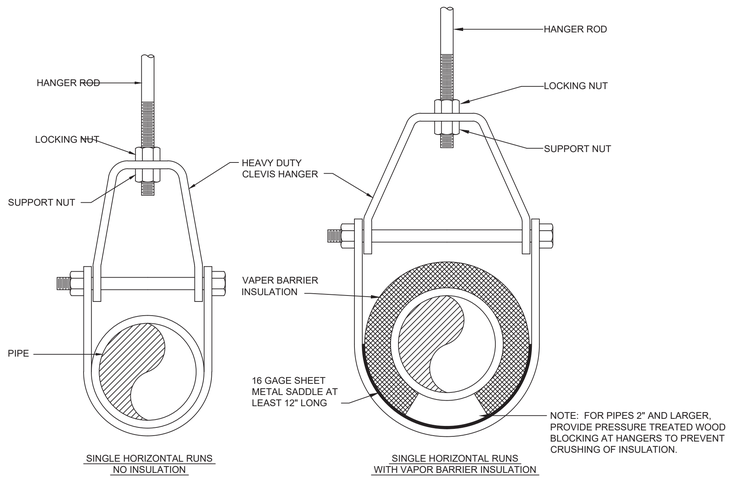
PLUMBING RISER DIAGRAMS

P5.00

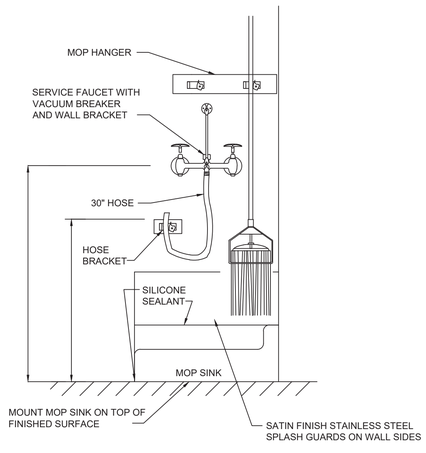


NOTE: COORDINATE ALL POWER REQUIREMENTS AND LOCATION WITH ELECTRICAL CONTRACTOR (DIV. 26).

1 / P5.01 **INSTANTANEOUS WATER HEATER DETAIL**
Scale: NONE



3 / P5.01 **CLEVIS HANGER DETAIL**
Scale: NONE



2 / P5.01 **MOP SINK DETAIL**
Scale: NONE

Sigma Engineered Solutions, PC
N.C. LICA-C-3490
9801 Kincey Avenue
Suite 101
Huntersville, NC 28078
Ph. 919.840.8300
Fax 919.840.8350
www.sigmaes.com
Sigma Project # 25108

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115 MacKenan Drive | Cary, NC 27511
License #: F-1479 | t: 919.469.3340 | www.withersravenel.com

CONFORMED CONSTRUCTION DOCUMENTS

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PLUMBING RISER DIAGRAMS

P5.01

MECHANICAL SYSTEMS ENERGY CODE COMPLIANCE

PRESCRIPTIVE: [X] ENERGY COST BUDGET: [ ]

THERMAL ZONE: 4A

EXTERIOR DESIGN CONDITIONS:

WINTER DRY BULB: 14°F
SUMMER DRY BULB: 94°F
SUMMER WET BULB: 76°F

INTERIOR DESIGN CONDITIONS:

WINTER DRY BULB: 70°F
SUMMER DRY BULB: 75°F

AREA HEAT LOAD: 5,570 BTUh

AREA COOLING LOAD: N/A

MECHANICAL CONDITIONING SYSTEM:

DESCRIPTION OF UNIT: ELECTRIC UNIT HEATER

HEATING EFFICIENCY: 100%
COOLING EFFICIENCY: N/A
HEATING OUTPUT: 6,800 BTUh
COOLING OUTPUT: N/A

BOILER OUTPUT: N/A

CHILLER TOTAL CAPACITY: N/A

DESIGNER STATEMENT:

TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT REQUIREMENTS OF THE NORTH CAROLINA STATE BUILDING CODE, 2018 ENERGY CONSERVATION CODE.

SIGNED:
NAME: ELTON L. SMITH, PE
TITLE MECHANICAL ENGINEER

MECHANICAL LEGEND

DUCTWORK SYMBOLS

DUCT DROP

DUCT RISE

SUPPLY OR MAKE-UP AIR

RETURN OR RELIEF AIR

EXHAUST AIR

MANUAL BALANCE DAMPER

FLEXIBLE DUCT

8"Ø

NOTES:
ALL DUCT DIMENSIONS SHOWN ARE IN INCHES
AND ARE SHEET METAL SIZES UNLESS OTHERWISE SHOWN.

21X12 RECTANGULAR DUCT
12"Ø ROUND DUCT

SIDEWALL DIFFUSER, GRILLE OR REGISTER

EXHAUST GRILLE OR REGISTER

SUPPLY GRILLE OR DIFFUSER

RETURN GRILLE OR REGISTER

DIFFUSER TYPE
GRILLE, REGISTER OR DIFFUSER DESIGNATION
CFM
(A) 200

AIRFLOW DIRECTION

MISCELLANEOUS SYMBOLS AND ABBREVIATIONS

(T) THERMOSTAT OR TEMPERATURE INDICATOR

DEVICES WITH OPERABLE CONTROLS SUCH AS THERMOSTATS SHALL BE MOUNTED BETWEEN 44" AND 48" A.F.F COMPLIANT WITH ADA HEIGHTS COORDINATE WITH OTHER DEVICES.

(#) REVISION NOTES

(#) SPECIFIC OR NEW WORK NOTES

CONNECT TO EXISTING

POINT OF DEMOLITION

SUBJECT OF DEMOLITION

MECHANICAL ABBREVIATIONS

AC	Air Conditioning
ACH	Air Changes per Hour
AEE	Association of Energy Engineers
AFD	Adjustable Frequency Drive
AFUE	Annual Fuel Efficiency Ratio
AHU	Air Handling Unit
BI	Backward Incline
BTU	British Thermal Unit
BTUH	Brtish Thermal Units / Hour
CAV	Constant Air Volume
CFC	ChloroFluoroCarbon
CC	Cooling Coil
CFM	Cubic Feet per Minute
COP	Coefficient Of Performance
CRAC	Computer Room Air Conditioner
CV	Constant Volume
DA	Discharge Air
DB	Dry Bulb
DH	Duct Heater
DN	Down
DP	Dew Point
DX	Direct Expansion
EAT	Entering Air Temperature
EC	Electrical Contratror (Div 26, 27 or 28)
ECM	Electronically Commutated Motor
EDH	Electric Duct Heater
EER	Energy Efficiency Ratio
EF	Exhaust Fan
EH	Electric Heater
EHC	Electric Heating Coil
ESP	External Static Pressure
ETR	Existing to Remain
EUH	Electric Unit Heater
EX	Existing
FC	Forward Curve
FCU	Fan Coil Unit
FLA	Full Load Amps
FPM	Feet Per Minute
FW	Feed Water
GC	General Contractor
GPM	Gallons Per Minute
GUI	Graphical User Interface
HCFC	Hydrochlorocfuorocarbon
HEPA	High Efficiency Particulate Arresting
HFC	HydroFluoroCarbon
HL	High Limit
HP	Horsepower
HR	Heat Recovery
HRU	Heat Recovery Unit
HRV	Heat Recovery Ventilator
HSPF	Heating Seasonal Performance Factor
HVAC	Heating Ventilation and Air Conditioning
HX	Heat Exchanger
I/O	Input Output
IAQ	Indoor Air Quality
IR	Infra-Red

LAT	Leaving Air Temperature
LL	Low Limit
LON	Local Operating Network
LP	Low Pressure
LRA	Locked Rotor Amps
LWBT	Leaving Wet Bulb Temperature
LWT	Leaving Water Temperature
M&V	Measurement and Verification
MA	Mixed Air
MAT	Mixed Air Temperature
MC	Mechanical Contratror (Div 23)
MCC	Motor Control Center
MUA	Make-up Air Unit
MVD	Manual Volume Damper
MZ	Multi-Zone
N/A	Not Applicable
NEMA	National Electrical Manufacturers Association
OA	Outside Air
OAT	Outside Air Temperature
OC	On Center
ODP	Open Drip Proof
PC	Plumbing Contratror (Div 22)
PH	Pre-Heat
PHC	Pre-heat Coil
PTAC	Packaged Terminal Air Conditioner
QTY	Quantity
RA	Return Air
REF	Refrigerant
RF	Return Fan
RH	Reheat
RH	Relative Humidity
RHC	Re-heat Coil
RPM	Revolutions Per Minute
RTD	Resistance Temperature Detector
RTU	Roof Top Unit
SA	Supply Air
SAT	Supply Air Temperature
SC	Shading Coefficient
SEER	Seasonal Energy Efficiency Ratio
SF	Supply Fan
SHFG	Solar Heat Gain Factor
TEV	Thermostatic Expansion Valve
TSP	Total Static Pressure
TXV	Thermostatic Expansion Valve
UC	Undercut
UH	Unit Heater
UV	UltraViolet
UV	Unit Ventilator
VAV	Variable Air Volume
VFD	Variable Frequency Drive
VSD	Variable Speed Drive
WB	Wet Bulb
WC	Water Column
XFER	Transfer

GENERAL 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 WITH THE STRUCTURE AND OTHER TRADES AND SHALL PROVIDE ADDITIONAL OFFSETS AND FITTINGS AS NECESSARY.
2. PRIOR TO BIDDING, THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL VISIT THE JOB SITE AND SHALL FAMILIARIZE THEMSELVES WITH ALL CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED AND SHALL INCLUDE IN THE BID ALL WORK REQUIRED FOR A COMPLETE JOB. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING FIELD CONDITIONS A MINIMUM OF FIVE DAYS PRIOR TO BID.
3. THE HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS SHALL COMPLY WITH THE 2018 NORTH CAROLINA MECHANICAL CODE AND NFPA 90A.
4. DUCT DIMENSIONS ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
5. 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 ENGINEER 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.
6. 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 STANDARDS. SHARP ANGLED TRANSITIONS OR OFFSETS WILL NOT BE ALLOWED. PROVIDE DUCT ACCESS DOORS AT LOCATIONS SPECIFIED.
7. INSTALL ALL DUCT MOUNTED DEVICES (DAMPERS, ACCESS DOORS, ETC.) AND PIPING SPECIALTIES IN EASILY ACCESSIBLE LOCATIONS. ADVISE THE ENGINEER IN ADVANCE OF INSTALLATION IF ACCESS WILL BE HINDERED SO AN ALTERNATE LOCATION CAN BE SELECTED.
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 CONTRACTING OFFICER 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. 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 SPECIFICATION SECTIONS FOR FURTHER INFORMATION. DO NOT BALANCE FOR DIVERSITY.
12. WHERE PIPING CONTAINING FLAMMABLE AND COMBUSTIBLE GAS IS TO BE REMOVED, PROCEDURE OF NCGC 406.7.1.1 ALONG WITH NFPA 54 7.2.7 AND 8.3.1 SHALL BE OBSERVED. THE LINE SHALL BE FIRST DISCONNECTED FROM ALL SOURCES OF GAS PRESSURE, VENTED TO THE OUTDOORS, AND THEN THOROUGHLY PURGED WITH AIR, WATER, OR INERT GAS BEFORE ANY CUTTING OR WELDING IS DONE.
13. THERMOSTATS AND SENSORS CONTAINING MERCURY SHALL BE DISPOSED IN ACCORDANCE WITH EPA RESOURCE CONSERVATION AND RECOVERY ACT (RCRA). CONTRACTOR SHALL REFER TO EPA WEBSITE FOR HANDLING PROCEDURES FOR DISPOSAL AND SPILL MANAGEMENT OF PRODUCTS CONTAINING MERCURY.
14. IN THE AREA OF WORK, ANY "OPEN" DUCTWORK INCLUDING INLET AND OUTLET REGISTERS AND DIFFUSERS SHALL BE COVERED WITH FILTRATING MATERIAL OR VISQUINE TO PROTECT INSIDE OF THE SYSTEM AGAINST DUST AND DEBRIS.
15. ANY DAMAGE OF EXTERIOR PIPE AND DUCT INSULATION CAUSED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED AND RESTORED AT NO EXTRA COST TO THE OWNER.

1 M0.01 MECHANICAL COVER SHEET - BAND SHELL

Sigma Engineered Solutions, PC
N.C. LICA-C-3490
9501 Arrowhead Rd.
Suite 101
Raleigh, NC 27615
Ph. 919.840.8300
fax 919.840.8301
www.sigmaes.com
Sigma Project # 2506

WithersRavenel
115 MacKenan Drive | Cary, NC 27511
License #: F-1479 | t: 919.469.3340 | www.withersravenel.com

CONFORMED CONSTRUCTION DOCUMENTS

WHITEVILLE COMMUNITY SPACE

907 S MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

Elton L Smith — Digitally signed by Elton L Smith, Date: 2025.08.19 10:56:13 -04'00'
SEAL 034274 ENGINEER ELTON L SMITH

INITIAL PLAN DATE: 08/25/2025
REVISIONS:

WR JOB NUMBER 23-0695
DRN: DGN: CKD:

MECHANICAL LEGENDS, AND NOTES

M0.01

EXHAUST FAN SCHEDULE

TAG	SERVICE	*MANUFACTURER/MODEL		MAX AIRFLOW	SP	TYPE	MOTOR	RPM	DRIVE	POWER	NOTES
EF-1	TOILET	GREENHECK	SP-A90-QD	75	0.25	CEILING	0.17 FLA	900	DIRECT	115/60/1	1, 2, 3
EF-2	JANITOR	GREENHECK	SP-A90-QD	75	0.25	CEILING	0.17 FLA	900	DIRECT	115/60/1	1, 2, 3

NOTES:
1. PROVIDE UNIT COMPLETE WITH BACKDRAFT DAMPER, GRILLE, VIBRATION ISOLATORS, FLEXIBLE DUCT CONNECTION, AND UNIT MOUNTED DISCONNECT.
2. PROVIDE ROOF VENT EQUAL TO FLASHCO EZ FLAPPER EXHAUST VENT WITH FLASHING. DISCHARGE VENT SHALL BE WHITE COMPLETE WITH FLASHING, BIRDSCREEN, AND BUILT-IN BACKDRAFT DAMPER. COORDINATE LOCATION WITH ARCHITECT.
3. INTERLOCK FAN OPERATION WITH LIGHTS. COORDINATE WITH ELECTRICAL CONTRACTOR (DIV. 26).

ELECTRIC UNIT HEATER SCHEDULE

TAG	SERVICE	*MANUFACTURER/MODEL		MOUNT	CFM	WATTS	VOLTS/PHASE	NOTES
UH-1	TOILET	MARLEY	F3472A1	SURFACE	600	2 KW	208/1	1
UH-2	JANITOR	MARLEY	F3472A1	SURFACE	600	2 KW	208/1	1

NOTES:
1. PROVIDE WITH FACTORY INSTALLED UNIT MOUNTED THERMOSTAT AND DISCONNECT.

GENERAL REQUIREMENTS: REFER TO PROJECT MANUAL FOR COMPLETE JOB SPECIFICATIONS

A. GENERAL REQUIREMENTS:

1. ALL WORK PERFORMED UNDER THIS DIVISION CONSISTS OF FURNISHING AND INSTALLING ALL MECHANICAL WORK INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREINAFTER. THE WORK PERFORMED UNDER THIS DIVISION INCLUDES THE SATISFACTORY COMPLETION OF HEATING, VENTILATING, AND AIR CONDITIONING WORK AS INDICATED IN THE CONTRACT DOCUMENTS.

2. ALL WORK TO BE PERFORMED UNDER THIS DIVISION SHALL BE IN COMPLIANCE WITH ALL APPLICABLE STATE AND LOCAL LAWS AND REGULATIONS GOVERNING STANDARDS OF DESIGN, CONSTRUCTION, WORKMANSHIP AND MATERIAL, INCLUDING BUT NOT LIMITED TO THE 2018 NORTH CAROLINA STATE BUILDING CODE AND 2018 NORTH CAROLINA STATE MECHANICAL CODE.

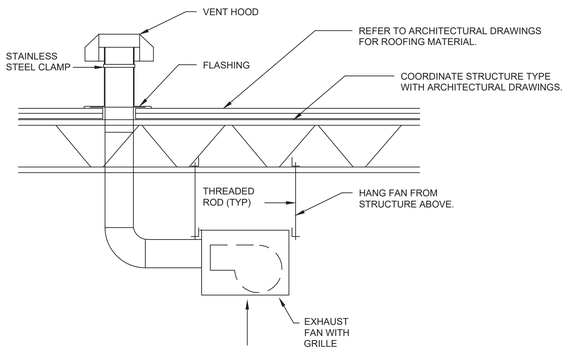
3. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND FEES REQUIRED FOR THE INSTALLATION OF HIS WORK.

B. BASIC MATERIALS AND METHODS:

1. CUTTING AND PATCHING: ALL CUTTING AND PATCHING INCIDENTAL TO AND REQUIRED FOR THE PROPER INSTALLATION OF THE WORK OF THIS DIVISION SHALL BE PERFORMED BY THE GENERAL CONTRACTOR AND SHALL NOT BE INCLUDED IN THE WORK OF THIS DIVISION.

C. SHOP FABRICATED DUCTWORK:

1. ALL DUCTWORK SHALL BE FABRICATED WITHIN THE GUIDELINES ESTABLISHED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC. (SMACNA) "HVAC DUCT CONSTRUCTION STANDARDS," 1995 EDITION. STANDARDS NOT CERTIFIED BY SMACNA ARE NOT ACCEPTABLE. ALL DUCT WORK SHALL BE FABRICATED TO WITHSTAND THE PRESSURE AND VELOCITY REQUIRED ON THIS PROJECT. ALL COMPONENTS, FASTENERS, SEALANTS, ADHESIVES, ETC. IN THE CONDITIONED AIR STREAM OR EXPOSED IN ACTIVE OR NON-ACTIVE PLENUMS SHALL CONFORM TO THE ASTM E84 STANDARD FOR FLAME/SMOKE/FIRE CONTRIBUTION OF 25/50/0. ALL DUCTWORK SHALL CONFORM TO UL STANDARD UL 181 FACTORY MADE AIR DUCT MATERIALS AND DUCT CONNECTORS, LATEST EDITION. SHOP FABRICATED DUCTWORK SHALL COMPLY WITH APPLICABLE SECTIONS. ALL SEALED DUCTWORK SHALL BE DONE IN ACCORDANCE WITH CLASS B AS A MINIMUM STANDARD.



NOTE: INSTALL EXHAUST VENT WITH FLASHING PER MANUFACTURERS WRITTEN INSTRUCTIONS.

2 M0.03 **EXHAUST FAN DETAIL**
Scale: NONE

1 M0.03 # MECHANICAL SCHEDULES & DETAILS - BAND SHELL

Sigma Engineered Solutions, PC
N.C. LICA-C-3490
9801 Capital Blvd, Suite 101
Raleigh, NC 27616
Ph. 919.840.8300
Fax 919.840.8350
www.sigmaes.com
Sigma Project # 23058

WithersRavenel
115 MacKenan Drive | Cary, NC 27511
License # F-1479 | t: 919.469.3340 | www.withersravenel.com

CONFORMED CONSTRUCTION DOCUMENTS

WHITEVILLE COMMUNITY SPACE

907 S MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

Elton L. Smith

Digitally signed by Elton L Smith
Date: 2025.08.19 09:56:41 -04'00'

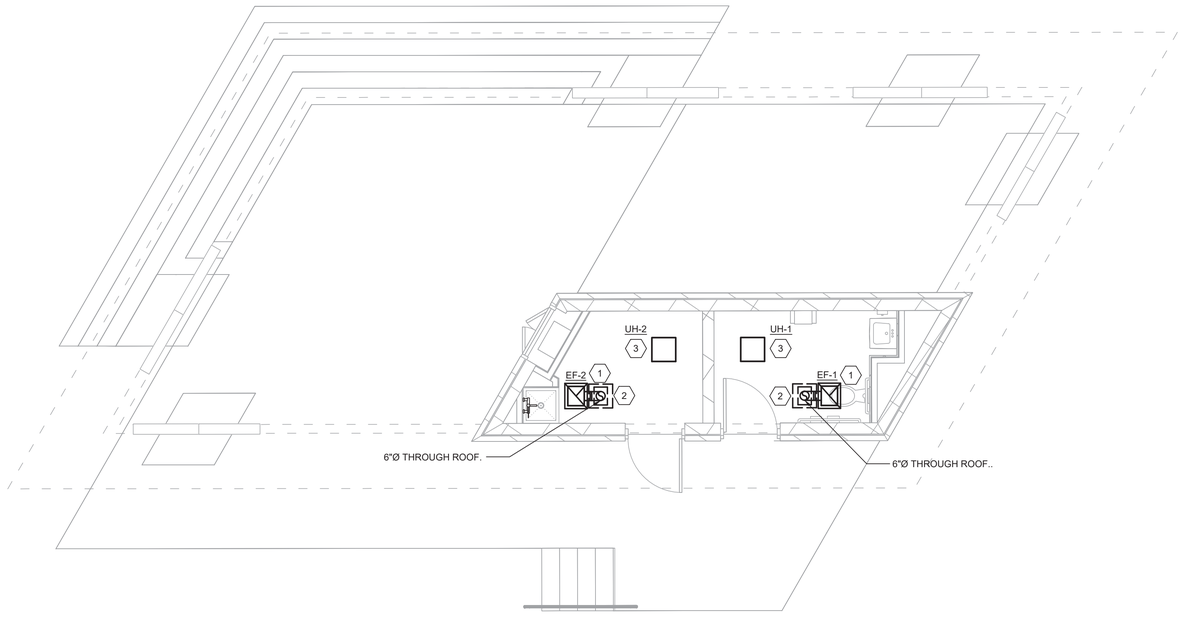
SEAL 034274 ENGINEER ELTON L. SMITH

INITIAL PLAN DATE: 08/25/2025
REVISIONS:

WR JOB NUMBER 23-0695
DRN: DGN: CKD:

MECHANICAL SCHEDULES, AND DETAILS

M0.03



1 M2.00 MECHANICAL NEW WORK PLAN - BAND SHELL
SCALE : 1/4" = 1'-0"

GENERAL NOTES :

1. DRAWINGS ARE DIAGRAMMATIC IN NATURE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE EQUIPMENT LOCATIONS WITH OTHER TRADES PRIOR TO BEGINNING WORK.
2. COORDINATE LOCATION AND MOUNTING HEIGHT OF ALL EQUIPMENT AND WALL PENETRATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO BEGINNING WORK.

KEYED NOTES:

1. INTERLOCK EXHAUST FAN WITH LIGHTS. COORDINATE WITH ELECTRICAL CONTRACTOR (DIV. 26). COORDINATE LOCATION OF EXHAUST FAN EF-2 WITH DOMESTIC HOT & COLD WATER, PLUMBING VENT, AND WATER HEATER. REFER TO PLUMBING DRAWINGS.
2. ROOF MOUNTED EXHAUST VENT. EQUAL TO FLASHCO EZ FLAPPER EXHAUST VENT WITH FLASHING AND BIRDSCREEN, WHITE. INSTALL PER MANUFACTURERS WRITTEN INSTRUCTIONS. CONFIRM MEMBRANE ROOF TYPE PRIOR TO ORDERING.
3. SURFACE MOUNTED CEILING HEATER WITH INTEGRAL DISCONNECT AND THERMOSTAT.

Sigma Engineered Solutions, PC
N.C. LICA C-2490
9801 Kincey Avenue, Bldg. 1
Suite 151
Huntersville, NC 28078
Ph. 919.840.8300
Fax 919.840.8301
www.sigmaes.com
Sigma Project # 23508

WithersRavenel
115 MacKenan Drive | Cary, NC 27511
License #: F-1479 | t: 919.469.3340 | www.withersravenel.com

CONFORMED CONSTRUCTION DOCUMENTS

WHITEVILLE COMMUNITY SPACE

907 S MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

Elton L. Smith
Digitally signed by Elton L Smith
Date: 2025.08.19 09:57:04 -04'00'
SEAL 034274 ENGINEER ELTON L SMITH

INITIAL PLAN DATE: 08/25/2025
REVISIONS:

WR JOB NUMBER 23-0695
DRN: DGN: CKD:

MECHANICAL NEW WORK PLAN

M2.00

Docusign Envelope ID: 2B3F6B11-9712-4C18-82E9-5A6092D30DD0

LIGHTING SYMBOLS

WALL OR CEILING MTD EXIT SIGN WITH SELF CONTAINED BATTERY BACK-UP, SINGLE FACE. ARROW WHEN USED INDICATES DIRECTION.

WALL OR CEILING MTD EXIT SIGN WITH SELF CONTAINED BATTERY BACK-UP, DOUBLE FACE. ARROW WHEN USED INDICATES DIRECTION.

SUSPENDED OR SURFACE MTD LED LIGHTING FIXTURE AND OUTLET, LETTER INDICATES FIXTURE TYPE; NUMBER INDICATES CIRCUIT

SUSPENDED OR SURFACE MTD LED LIGHTING FIXTURE LETTER DESIGNATES FIXTURE TYPE AND NUMBER INDICATES CIRCUIT INSTALLED WITH EMERGENCY DRIVER ON NITE-LITE CIRCUIT

CEILING MTD OR LAY-IN TYPE LED LIGHTING FIXTURE AND OUTLET, LETTER INDICATES FIXTURE TYPE; NUMBER INDICATES CIRCUIT

CEILING MTD OR LAY-IN LED LIGHTING FIXTURE LETTER DESIGNATES FIXTURE TYPE AND NUMBER INDICATES CIRCUIT INSTALLED WITH EMERGENCY DRIVER ON NITE-LITE CIRCUIT

CEILING MTD OR LAY-IN TYPE LED LIGHTING FIXTURE AND OUTLET, LETTER INDICATES FIXTURE TYPE; NUMBER INDICATES CIRCUIT

CEILING MTD OR LAY-IN LED LIGHTING FIXTURE LETTER DESIGNATES FIXTURE TYPE AND NUMBER INDICATES CIRCUIT INSTALLED WITH EMERGENCY DRIVER ON NITE-LITE CIRCUIT

CEILING/PENDENT MTD/RECESSED LIGHTING FIXTURE AND OUTLET, LETTER DESIGNATES FIXTURE TYPE AND NUMBER INDICATES CIRCUIT

CEILING/PENDENT MTD/RECESSED LIGHTING FIXTURE LETTER DESIGNATES FIXTURE TYPE AND NUMBER INDICATES CIRCUIT INSTALLED WITH EMERGENCY DRIVER ON NITE-LITE CIRCUIT

SURFACE MOUNTED WALL LUMINAIRE
OUTLET, LETTER INDICATES FIXTURE TYPE; NUMBER INDICATES CIRCUIT

SURFACE MOUNTED WALL LUMINAIRE LETTER DESIGNATES FIXTURE TYPE AND NUMBER INDICATES CIRCUIT CONNECTED TO REMOTE EMERGENCY INVERTER

EMERGENCY WALL BATTERY PACK UNIT PER THE SCHEDULE. LETTER NEXT TO FIXTURE ON PLANS INDICATES FIXTURE TYPE. CONNECT UNSWITCHED TO INDICATED BRANCH CIRCUIT.

EMERGENCY CEILING BATTERY PACK UNIT PER THE SCHEDULE. LETTER NEXT TO FIXTURE ON PLANS INDICATES FIXTURE TYPE. CONNECT UNSWITCHED TO INDICATED BRANCH CIRCUIT.

NOTE TO ALL LIGHTING:

X/Y-SUBSCRIPTS @ LIGHTING FIXTURES:

1. X-REPRESENTS OCCUPANCY SENSOR THAT CONTROLS FIXTURE.
2. Y-REPRESENTS SWITCH THAT CONTROLS FIXTURE.
3. WHEN NO SUBSCRIPT IS SHOWN, LOCAL OCC SENSOR AND SWITCH CONTROLS FIXTURE.

S_{OR} DIGITAL TIMER SWITCH-INTERMATIC EI235 OR EQUAL

S_{DT} DIGITAL TIMER SWITCH-INTERMATIC ST01 OR EQUAL

S FLUSH MTD TOGGLE SWITCH, S.P.S.T., 20A, 120/277V

S_3 FLUSH MTD 3-WAY TOGGLE SWITCH, 20A, 120/277V

S_4 FLUSH MTD 4-WAY TOGGLE SWITCH, 20A, 120/277V

S_D FLUSH MTD 0-10V LED DIMMER SWITCH

S_{OS} SWITCH TYPE OCCUPANCY SENSOR WITH BUILT-IN OVERRIDE SWITCH

S_L SURFACE MTD TOGGLE SWITCH, S.P.S.T., 20A, 120/277V W/LOCKABLE COVER PLATE

S_a S_b LOWER CASE SUBSCRIPT INDICATE WHICH LIGHTS THE SWITCH IS TO BE CONNECTED TO.

(OSC) DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR:
A/V DESIGNATES SENSOR PROVIDED AS PART OF DIMMING OR A/V PACKAGE
U/H DESIGNATES ULTRA-SONIC DEVICE RATED FOR HALLWAY INSTALL

(OSW) WALL MOUNTED OCCUPANCY SENSOR

NOTE ON OCC SENSORS: SENSORS SHALL PROVIDE COVERAGE TO 1000 SF AND SWITCH LOAD OFF AFTER 20 MIN.

(PC) PHOTOCELL

LC LIGHTING CONTACTOR

POWER SYMBOLS

OUTLET BOX WITH BLANK COVER - LOCATE AS REQUIRED TO FOR EQUIPMENT SERVED.

FLUSH MTD DUPLEX RECEPTACLE AND OUTLET, 20A, 125V, 3W

FLUSH MTD QUADRUPLEX RECEPTACLE AND OUTLET, 20A, 125V, 3W

FLUSH MOUNTED QUADRUPLEX RECEPTACLE AND OUTLET 20A, 125V, 3W, INSTALLED 4" ABOVE BACKSPLASH OR COUNTER IF NO BACKSPLASH EXISTS.

FLUSH MOUNTED QUADRUPLEX RECEPTACLE AND OUTLET 20A, 125V, 3W, INSTALLED 4" ABOVE BACKSPLASH OR COUNTER IF NO BACKSPLASH EXISTS.

FLOOR BOX. BOX TO BE FLUSH MOUNTED IN CONCRETE FLOORS.

NOTE TO ALL RECEPTACLES/JUNCTION BOXES:

1. SUBSCRIPT EWC INDICATES GROUND FAULT TYPE RECEPTACLE FOR ELECTRIC WATER COOLER.
2. SUBSCRIPT WP INDICATES GROUND FAULT TYPE RECEPTACLE WITH STEEL LOCKABLE CLOSED WEATHERPROOF COVER.
3. SUBSCRIPT GFI INDICATES GROUND FAULT TYPE RECEPTACLE.
4. SUBSCRIPT VEN INDICATES GROUND FAULT TYPE RECEPTACLE FOR VENDING MACHINE.
5. SUBSCRIPT TV INDICATES RECEPTACLE FOR TV MOUNTED IN BRACKET.
6. SUBSCRIPT SL INDICATES SHORELINE INSTALLATION PER DETAILS.
7. SUBSCRIPT USB INDICATES COMBINATION 20A OUTLET AND USB PORT.
8. SUBSCRIPT HD INDICATES HAND DRYER CONNECTION.
9. SUBSCRIPT MF INDICATED GFI RECEPTACLE MOUNTED BELOW SINK FOR ELECTRIC METERED FAUCET CONNECTION.
10. SUBSCRIPT DW INDICATES DISHWASHER CONNECTION. PROVIDE WITH 120 VOLT 20 AMPERE SWITCH ABOVE COUNTER FOR DISCONNECT.
11. SUBSCRIPT CR INDICATES 120 V POWER FOR CARD READER.
12. SUBSCRIPT HB INDICATES 120 V POWER CONNECTION FOR HOT BOX CONNECTION.
13. SUBSCRIPT GS INDICATES 120 V POWER CONNECTION FOR WAKE COUNTY GROUND SIGN CONNECTION.
14. SUBSCRIPT FP INDICATES 120 V POWER CONNECTION FOR FLAG POLE LIGHTING CONNECTION.
15. SUBSCRIPT MR INDICATES 120 VOLT POWER CONNECTION FOR MOTORIZED HVAC REGISTER.
16. SUBSCRIPT OHD INDICATES OVERHEAD DOOR CONTROLS PER DETAILS.

TELE/COMM OUTLET 4" SQ. BOX WITH 1"C TO J-HOOKS.

TELE/COMM OUTLET 4" SQ. BOX WITH 1"C TO J-HOOKS. MOUNT 4" ABOVE BACKSPLASH OR AS NOTED.

J-HOOKS PER DRAWINGS AND PROJECT MANUAL.

NOTE TO ALL TELECOM OUTLETS:

1. SUBSCRIPT WAP DESIGNATES WIRELESS ACCESS POINT MOUNTED IN CEILING OR ON WALL AT 84" AFF.
2. SUBSCRIPT FA DESIGNATES CONNECTION FOR FIRE ALARM DIAL OUT.
3. SUBSCRIPT EL DESIGNATES CONNECTION FOR ELEVATOR PHONES.
4. SUBSCRIPT W DESIGNATES WALL MOUNTED PHONE MOUNTED AT 48" AFF.
5. SUBSCRIPT DC DESIGNATES DOOR COUNTER CONNECTION.
6. SUBSCRIPT SEC DESIGNATES CONNECTION FROM DROP .
7. SUBSCRIPT ER DESIGNATES EMERGENCY RESPONSE PHONE WITH DEDICATED LINE.
8. SUBSCRIPT AV DESIGNATES 1"C TO ABOVE CEILING FOR AV CONNECTION.
9. SCADA INDICATES 1" CONDUIT TO SCADA SYSTEM FOR CONNECTION TO NETWORK
10. PV INDICATES 1" CONDUIT TO INVERTERS FOR CONNECTION TO NETWORK.
11. ECP INDICATES 1" CONDUIT FROM BAY EXHAUST CONTROL PANEL TO NETWORK.

HC HANDICAPPED DOOR OPERATOR

DISCONNECT SWITCH-PROVIDE 30A, NON-FUSED U.O.N.

NF / 30 NON-FUSED DISCONNECT SWITCH. NUMBER OF POLES AND VOLTAGE PER CIRCUIT FED.

20 / 30 30 AMP FUSED DISCONNECT SWITCH, FUSED AT 20 AMP. NUMBER OF POLES AND VOLTAGE PER CIRCUIT FED.

WP WEATHERPROOF NEMA 3R DISCONNECT SWITCH. NUMBER OF POLES AND VOLTAGE PER CIRCUIT FED.

4X NEMA 4X SS DISCONNECT SWITCH. NUMBER OF POLES AND VOLTAGE PER CIRCUIT FED.

FVNR COMBINATION DISCONNECT SWITCH AND MAGNETIC MOTOR STARTER OR VFD (IF MARKED VFD)

S_M MANUAL MOTOR STARTER SWITCH WITHOUT OVERLOAD HEATERS

1 A.C. MOTOR, NUMERAL INDICATES HP
"F" INDICATES FRACTIONAL HP

PANEL BOARD, FLUSH MOUNTED

PANEL BOARD, SURFACE MOUNTED

CONCEALED RACEWAY. INDICATES HOMERUN TO PANEL IN 3/4" CONDUIT-WIRE PER PANEL SCHEDULES.

ELECTRICAL SYMBOL NOTES

1. SYMBOLS AND ABBREVIATIONS MAY NOT ALL BE UTILIZED FOR THIS PROJECT.
2. SYMBOLS NOT LISTED IN THIS ELECTRICAL SYMBOL LEGEND ARE IDENTIFIED ON THE DRAWINGS WHERE THEY OCCUR.
3. MOUNTING HEIGHT GIVEN IN THE ELECTRICAL SPECIFICATIONS IS TO THE CENTERLINE OF THE DEVICE AND SHALL BE FOLLOWED UNLESS OTHERWISE NOTED.

ABBREVIATIONS

A	AMPERE, AMMETER
AFF	ABOVE FINISHED FLOOR
AIC	AMPERES INTERRUPTING CAPACITY
AHU	AIR HANDLING UNIT
ATS	AUTOMATIC TRANSFER SWITCH
AV,A/V	AUDIO-VISUAL
BDA	BI-DIRECTIONAL ANTENNA SYSTEM
BFG	BELOW FINISHED GRADE
C/CON.	CONDUIT
CATV	CABLE (COMMUNITY) ANTENNA TELEVISION
CU	COPPER
DISC	DISCONNECT
D.W.	DOMESTIC WATER
EC	ELECTRICAL CONTRACTOR
ECB	ENCLOSED CIRCUIT BREAKER
EGC	EQUIPMENT GROUNDING CONDUCTOR
EVCS	ELECTRIC VEHICLE CHARGING STATION
EWC	ELECTRIC WATER COOLER
E	EXISTING
FA, F/A	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
F.P.	FIRE PROTECTION
GEC	GROUNDING ELECTRODE CONDUCTOR
G,GND	GROUND
GC	GENERAL CONTRACTOR
GF,GFI	GROUND FAULT INTERRUPTER
HH	HANDHOLE
HP	HORSEPOWER
IG, ISG	ISOLATED GROUND
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERES
KW	KILOWATTS
LC	LIGHTING CONTACTOR
LTG	LIGHTING
LV	LOW VOLTAGE
MB	MAIN BREAKER
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MH	MANHOLE
MLO	MAIN LUGS ONLY
MT./MNT.	MOUNTING
NF	NON FUSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
P	POLE, PHASE
PB	PULL BOX
PC	PLUMBING CONTRACTOR
P/BD, PNL	PANELBOARD
PR	PAIR
PV	PHOTO-VOLTAIC
SN	SOLID NEUTRAL
SW	SWITCH
SWBD	SWITCHBOARD
T/C	TELECOM
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLT
WP	WEATHERPROOF
XFMR	TRANSFORMER

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY-BANDSHELL

ELECTRICAL SYSTEM AND EQUIPMENT

METHOD OF COMPLIANCE: ENERGY CODE ☐ PERFORMANCE ☒ PRESCRIPTIVE
ASHRAE 90.1 ☐ PERFORMANCE ☐ PRESCRIPTIVE

LIGHTING SCHEDULE

LAMP TYPE REQUIRED IN FIXTURE	PER SCHEDULE
NUMBER OF LAMPS IN FIXTURE	PER SCHEDULE
BALLAST TYPE USED IN THE FIXTURE	PER SCHEDULE
NUMBER OF BALLASTS IN FIXTURE	PER SCHEDULE
TOTAL WATTAGE PER FIXTURE	PER SCHEDULE
TOTAL INTERIOR WATTAGE SPECIFIED VS ALLOWED	840W vs 1800W
TOTAL EXTERIOR WATTAGE SPECIFIED VS ALLOWED	200W vs 500W

ADDITIONAL EFFICIENCY PACKAGE OPTIONS
(WHEN USING THE 2018 NCECC; NOT REQUIRED FOR ASHRAE 90.1)

- ☐ C406.2 MORE EFFICIENT HVAC EQUIPMENT PERFORMANCE
- ☒ C406.3 REDUCED LIGHTING POWER DENSITY
- ☐ C406.4 ENHANCED DIGITAL LIGHTING CONTROLS
- ☐ C406.5 ON-SITE RENEWABLE ENERGY
- ☐ C406.6 DEDICATED OUTDOOR AIR SYSTEM
- ☐ C406.7 REDUCED ENERGY USE IN SERVICE WATER HEATING

DESIGNER STATEMENT:
TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENT OF THE NORTH CAROLINA STATE BUILDING CODE

SIGNED: Reggie Adams
NAME: REGGIE ADAMS P.E.
TITLE: ELECTRICAL ENGINEER

Sigma Engineered Solutions, PC
N.C. LIC# C-3490
3904 Falls of Neuse Rd.
Suite 101
Raleigh, NC 27609
Ph: 919.840.0800
Fax: 919.840.0900
www.sigmaes.com
Sigma Project # 23058

WithersRavenel
115 MacKenan Drive | Cary, NC 27511
License #: F-1479 | t: 919.469.3340 | www.withersravenel.com

CONFORMED CONSTRUCTION DOCUMENTS

WHITEVILLE COMMUNITY SPACE

907 S MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

DocuSigned by: Reggie Adams
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19658 REGINALD D. ADAMS
8/18/2025

INITIAL PLAN DATE: 08/25/2025
REVISIONS:

WR JOB NUMBER 23-0695
DRN: DGN: CKD:

ELECTRICAL LEGENDS & SCHEDULES

E0.00

Docusign Envelope ID: 2B3F6B11-9712-4C18-82E9-5A6092D30DD0

GENERAL NOTES

1. NOT ALL NOTES ARE NECESSARILY APPLICABLE FOR THIS PROJECT. COORDINATE WITH DESIGNER WHERE APPLICABILITY IS IN QUESTION.
2. ALL WORK ON THIS PROJECT SHALL CONFORM TO THE 2020 NEC, ALL LOCAL AND STATE CODES, STATE BUILDING CODE AND REQUIREMENTS BY THE AUTHORITY HAVING JURISDICTION.
3. SYMBOLS AND ABBREVIATIONS MAY NOT ALL BE UTILIZED FOR THIS PROJECT.
4. UNLESS OTHERWISE INDICATED THE CONTRACTOR, IS RESPONSIBLE FOR ALL CUTTING, CORE- DRILLING AND PATCHING REQUIRED TO INSTALL ELECTRICAL RELATED WORK.
5. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ELECTRICAL RELATED WORK WITH OTHER TRADES. THE CONTRACTOR IS CAUTIONED THAT IT IS TOTALLY HIS RESPONSIBILITY TO COORDINATE HANGERS AND SUPPORTS WITH OTHER TRADES. ADDITIONAL REQUIRED HANGERS & SUPPORTS MUST BE IN PLACE PRIOR TO APPLICATION OF FIRE PROOFING MATERIAL. ANY DAMAGE INCURRED ON FIRE PROOFING MATERIAL DUE TO INSTALLATION OF ELECTRICAL HANGERS WILL BE REPAIRED BY FIRE PROOFING SUB-CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
6. UTILITIES SERVING AREAS OF THIS PROJECT STILL OCCUPIED BY THE OWNER DURING DEMOLITION AND NEW CONSTRUCTION SHALL BE MAINTAINED UNTIL THE OWNER VACATES THE AREA. UNLESS OTHERWISE NOTED.
7. ALL SHUTDOWNS WILL BE COORDINATED AND APPROVED THROUGH THE OWNER'S PROJECT MANAGER AND THE BUILDING MANAGER AND WILL REQUIRE ADVANCE NOTICE OF 10 WORKING DAYS EXCLUDING WEEKEND. THIS TIME LENGTH MAY BE LONGER OR SHORTER FOR SOME SHUTDOWNS AT THE OWNER'S DISCRETION. THE SCHEDULING OF SUCH SHUTDOWNS MAY TAKE TWO WEEKS OR MORE AND THE CONTRACTOR MUST BE PREPARED TO WORK SECOND OR THIRD SHIFT, SATURDAY OR SUNDAY AS NECESSARY TO PERFORM THE WORK. FURTHERMORE, IN SOME CASES AN ALTERNATE POWER SOURCE MAY BE REQUIRED, THE CONTRACTOR MUST BE PREPARED TO MAKE TAPS, INSTALL CIRCUIT BREAKERS, ETC., WHILE EXISTING EQUIPMENT IS ENERGIZED. ALL SHUTDOWNS WILL BE INITIATED AND CONTROLLED BY OWNER.
8. VISIT THE SITE PRIOR TO BID DATE AND EXAMINE ALL AREAS TO BE DEMOLISHED AND RENOVATED. THOROUGHLY FAMILIARIZE YOURSELF WITH EXISTING CONDITIONS. NO EXTRA COMPENSATION WILL BE GIVEN FOR FAILURE TO THOROUGHLY EXAMINE EXISTING CONDITIONS TO DETERMINE THE EXACT SCOPE OF DEMOLITION WORK. "KEYED" NOTES ON THE DEMOLITION DRAWINGS ARE PROVIDED TO ASSIST BIDDERS TO DETERMINE THE SCOPE OF DEMOLITION WORK.
9. EXISTING AREAS WHETHER WITHIN OR WITHOUT THE "GENERAL LIMITS OF CONSTRUCTION", SHALL BE REPAIRED WHERE ANY DAMAGE HAS OCCURRED DUE TO CONSTRUCTION BY THE CONTRACTOR.
10. ALL AREAS OUTSIDE THE PROJECT LIMITS IN WHICH WORK MUST TAKE PLACE WILL BE CLEANED AND RETURNED TO NORMAL (INCLUSIVE OF CEILING TILE REPLACEMENT) AT THE END OF EACH DAY. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE EACH DAY BEFORE LEAVING THE CONTRACT PROJECT LIMITS REGARDING THE CLEANLINESS OF THE AREA IN WHICH WORK TOOK PLACE OUT SIDE OF THE PROJECT LIMITS.
11. WHERE WORK IS TAKING PLACE OUTSIDE THE PROJECT LIMITS CANNOT ALLOW A RETURN TO NORMAL APPEARANCE OF WALLS, CEILING, ETC., AT THE END OF EACH DAY DUE TO ITS EXTENSIVE NATURE; THE CONTRACTOR SHALL ERECT A BLACK PLASTIC CURTAIN AROUND HIS WORK. SUCH A CURTAIN SHALL REMAIN IN PLACE UNTIL THE WORK IS COMPLETE. SUCH CURTAINS WILL HAVE CAUTIONARY SIGNS AFFIXED INDICATING CONSTRUCTION ACTIVITY WITHIN.
12. PROVIDE 4" HIGH CONCRETE HOUSEKEEPING PADS WITH CHAMFERED EDGES UNDER ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT.
13. DO NOT MOUNT ANY WALL RECEPTACLES OR TELEPHONE/COMPUTER OUTLETS BACK TO BACK.
14. USE 3/4" DEEP MUD RINGS ON BOXES IN 5/8" DRYWALL SO FACE OF RING IS FLUSH WITH FACE OF DRYWALL. PROVIDE CADDY #RLC ADAPTER ON ALL OUTLETS WHERE DRYWALL IS CUT IN EXCESS OF 1/8" LARGER THAN MUD RING OR WHERE THE DEVICE "EARS" ARE NOT SUPPORTED BY THE DRYWALL.
15. 20A BRANCH CIRCUIT WIRE SIZING SHALL BE IN ACCORD WITH THE FOLLOWING TABLE:

VOLTS	DISTANCE	(FIRST DEVICE)	REMAINDER OF CIRCUIT
120/208	0' - 50'	#12	#12
	50' - 100'	#10	#12
	100' - 150'	# 8	#10

16. THE ELECTRICAL CONTRACTOR SHALL VERIFY LOCATION OF LIGHTS, ETC. IN MECHANICAL ROOMS WITH MECHANICAL CONTRACTOR BEFORE ROUGH-IN TO AVOID CONFLICT WITH DUCT WORK.
17. ALL CONDUCTORS SHALL BE COPPER WITH A MINIMUM SIZE OF #12 AWG EXCEPT FOR FIRE ALARM.
18. ALL BRANCH CIRCUIT BREAKERS SHALL BE 20A, 1P, WITH 2 #12 AWG 1#12 GND IN 3/4" MINIMUM CONDUIT, UNLESS OTHERWISE NOTED. EXTERIOR CONDUIT OR UNDERGROUND/SLAB CONDUIT SHALL BE 1"C MINIMUM.
19. ALL WIRING LUGS THROUGHOUT THE PROJECT, INCLUDING BUT NOT LIMITED TO BREAKERS, PANELBOARD/SWITCHBOARD LUGS, SAFETY SWITCH LUGS, AND TRANSFORMER LUGS, SHALL BE RATED FOR USE WITH 75 DEGREE CONDUCTORS SIZED IN ACCORDANCE WITH NEC TABLE 310-16.
20. ALL RACEWAYS SHALL BE METAL UNLESS SPECIFICALLY NOTED OR APPROVED OTHERWISE. ANY RACEWAY IN POURED CONCRETE SHALL BE RIGID METAL (HEAVY WALL). REFER TO SPECIFICATIONS FOR ALL OTHERS.
21. CONTRACTOR SHALL MINIMIZE NUMBER OF HOME RUN CONDUITS. CONTRACTOR MAY COMBINE UP TO THREE CIRCUITS PER HOME RUN IN A SINGLE CONDUIT; WHERE MORE THAN THREE (3) CONDUCTORS ARE PROVIDED PER RACEWAY MINIMUM CONDUIT SIZE SHALL BE 3/4".
22. IN GENERAL ALL ELECTRICAL CONDUIT WILL BE RUN AT THE ELEVATION JUST BELOW THE BOTTOM OF THE STRUCTURAL BEAMS. THE CONTRACTOR SHALL OFFSET THE ELECTRICAL CONDUIT TO AVOID INTERFERENCE WITH ANY DUCTWORK, SPRINKLER OR MECHANICAL PIPING. THE CONTRACTOR SHALL COORDINATE HIS CONDUIT AND RACEWAY LOCATIONS WITH ALL OTHER TRADES BEFORE INSTALLATION.
23. THE ROUTING FOR THE RACEWAY SHOWN ON THE DWGS. IS DIAGRAMMATIC ONLY, BASED ON CURSORY FIELD SURVEY BY DESIGNER. CONTRACTOR IS CAUTIONED THAT SPACE ABOVE CLG. IS VERY CONGESTED WITH EXISTING MECHANICAL, ELECTRICAL & PLUMBING ITEMS, AND WORK SPACE IS LIMITED. CONTRACTOR IS REQUIRED TO VISIT THE SITE PRIOR TO BID DATE AND LOOK ABOVE THE CLG. OF THE PROPOSED ROUTING TO FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS. PROVIDE ANY AND ALL ADDITIONAL JB'S, OFFSETS, CONDUITS AND FITTINGS AS REQUIRED TO AVOID ANY EXIST. OBSTRUCTIONS ALONG THE PROPOSED ROUTING. ANY SHUTDOWNS CAUSED BY RELOCATING EXISTING EQUIPMENT SHALL BE COORDINATED WITH OWNER. FAILURE TO EXAMINE EXISTING CONDITIONS AND COORDINATE THE EXACT CONDUIT ROUTING WILL NOT EXCUSE CONTRACTOR FROM PERFORMING ALL DUTIES NECESSARY TO COMPLETE THE WORK. DO NOT ROUTE CONDUIT IN A MANNER THAT WILL BLOCK ACCESS TO EXISTING ITEMS AS JUNCTION BOXES, VALVES, FILTERS OR SERVICE ACCESS TO EQUIPMENT.
24. ELECTRICAL PLANS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL ALIGN FIXTURES, FIRE ALARM DETECTORS, CEILING DIFFUSERS, ETC. AS REQUIRED TO PROVIDE A PATTERN OF UNIFORMITY. AT NO TIME SHALL A SMOKE DETECTOR BE LOCATED WITHIN 3'-0" OF A SUPPLY OR RETURN GRILLE.
25. WIRE AND CIRCUIT BREAKERS ARE SIZED FOR SPECIFIC EQUIPMENT. BEFORE ORDERING WIRE, BREAKERS AND CONDUIT FOR THIS PROJECT, THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OTHER CONTRACTORS ON THE JOB AND SHALL VERIFY THE ELECTRICAL DATA FOR EQUIPMENT WHICH WILL ACTUALLY BE INSTALLED BY THE OTHER CONTRACTORS AND RECOMPUTE WIRE AND BREAKER SIZES IF REQUIRED TO COMPLY WITH THE N.E.C.
26. REFER TO MECHANICAL DRAWINGS AND COORDINATE VERTICAL RUNS OF WIRE AND CONDUIT WITH MECHANICAL PIPING. COORDINATE WITH MECHANICAL CONTRACTORS. (NOTE: STACK RUNS OF CONDUIT AND PROVIDE OFFSETS AS NECESSARY.)
27. LABEL ALL CONDUITS TERMINATING IN THE CEILING CAVITIES.
28. LIGHTING & POWER PANELS ARE DESIGNED AROUND SQUARE "D" "NQOD" WITH A MAXIMUM DEPTH OF 5 3/4" AND WIDTH OF 20".
29. THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS, JUNCTION BOXES AND DISCONNECT SWITCHES SHALL BE REVIEWED AND COORDINATED WITH CASEWORK DRAWINGS AND ACTUAL EQUIPMENT LOCATION, PRIOR TO INSTALLATION. ANY DIFFERENCES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
30. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL CEILING TYPES AND FINISHES BEFORE PURCHASE OF ANY LIGHT FIXTURES SO THAT THE PROPER TRIM WILL BE PROVIDED FOR THE CEILING TO BE INSTALLED. ANY DIFFERENCES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
31. EACH CONTRACTOR SHALL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED BY HIM AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES OR PER APPROVAL OF THE ENGINEER. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE REPLACED AT THE REQUEST OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
32. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS. DO NOT SCALE THESE DRAWINGS.
33. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THE PROJECT, PRIOR TO THE INSTALLATION OF HIS EQUIPMENT, SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND TO ALLOW FOR OPTIMUM MAINTENANCE AND WORKING SPACE. PROVIDE COORDINATION DRAWINGS TO THE ENGINEER FOR APPROVAL. ANY REWORK THAT NEEDS TO BE DONE DO TO CONFLICTS BETWEEN TRADES SHALL BE DONE AT THIS CONTRACTORS EXPENSE.
34. ALL LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE SUSPENDED CEILING SYSTEM. REFER TO THE SPECIFICATIONS FOR MORE DETAILED INFORMATION.
35. WHERE ELECTRICAL EQUIPMENT PENETRATES EXTERIOR WALLS OR THE ROOF, THEY SHALL BE PROPERLY SEALED WITH METHODS APPROVED BY THE ENGINEER. SUBMIT DETAIL OF PROPOSED WORK.
36. IN ALL AREAS WHERE THE FIRE RATED WALLS, FLOORS AND CEILINGS ARE INSTALLED OR ARE EXISTING, ALL PENETRATIONS OF ELECTRICAL CONDUITS OR OTHER RELATED ELECTRICAL MATERIALS SHALL BE PROPERLY SEALED WITH APPROVED FIRE RATED MATERIALS TO MAINTAIN THE RATINGS OF THE BUILDING CONSTRUCTION.
37. ALL FUSES, DISCONNECT SWITCHES AND BREAKER SIZES, SHOWN FOR MECHANICAL EQUIPMENT, SHALL BE VERIFIED BEFORE THE PURCHASE OR INSTALLATION OF SAID EQUIPMENT, WITH THE EQUIPMENT SUPPLIER AND MECHANICAL CONTRACTOR.
38. UPON COMPLETION OF WORK ALL KEYS TO ELECTRICAL POWER PANELS SHALL BE TURNED OVER TO THE OWNER AND A SIGNED RECEIPT SHALL BE OBTAINED.
39. ALL MULTIWIRE BRANCH CIRCUITS NEED TO HAVE SEPARATE NEUTRAL CONDUCTORS TO COMPLY WITH NEC 2020 ARTICLE 210.4. NO SHARED NEUTRAL CONDUCTORS PERMITTED ON THIS PROJECT.
41. ANY RECEPTACLE WITH-IN 6'-0" OF A SINK SHALL BE A GROUND FAULT TYPE (GFI) RECEPTACLE.
42. ALL WORK ON THIS PROJECT SHALL BE INSTALLED IN COMPLIANCE WITH ANSI A117.1, ADA STANDARDS FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURE NAME	MANUFACTURE CATALOG MUNBER	LAMPS	NO. OF BALLASTS	INPUT WATTS	VOLT	REMARKS
A1	48" LED PENDANT.	LITHONIA	ZL1F-L48-3000LM-MDD-120-35K-80CRI-E7W-FTBD	LED	LED DRIVER	30	UNV	PROVIDE WITH 90 MIN BATTERY.
A3	LED TAPE LIGHT	JUNO	JFX-24-300LM-PER DRAWINGS-30K-90CRI-DL-SLCH	LED	LED DRIVER	3.4/LF	120	PROVIDE WITH SYSTEM WITH 60 WATT DRIVER PER DIMMING SWITCH SHOWN ON PLAN
D1	LED FLOOD LIGHT	HYDREL	SAF1-LED-P3-80CRI-30K-MVOLT-30DEG-CWL-KN-AMHM-ZT-FTBD	LED	LED DRIVER	18	UNV	
P2	WALL MOUNTED SCONCE	MP LIGHTING	L722-8-N-F-N-F-FTBD	LED	LED DRIVER	9	UNV	XXXX
S1a	WALL MOUNTED SCONCE	MP LIGHTING	L723-W30H-N-C-CTBD	LED	LED DRIVER	9	UNV	XXXX
S2a	WALL MOUNTED EMERGENCY SCONCE	EXITONIX	NF5-WB-10L-WM-FTBD-SEC120	LED	LED DRIVER	10	UNV	
S3	WALL MOUNTED VANITY LIGHT	ACUITY	HPW324-MVOLT-LED30-1U1D-FW	LED	LED DRIVER	24	UNV	

NOTES:
PD=PER DRAWINGS
AR=AS REQUIRED
TBD=MOUNTING OR OTHER OPTION TO BE DECIDED BASED ON FIELD CONDITIONS
FTBD=FINISH TO BE DECIDED FROM MANUFACTURER'S STANDARD COLOR PALLETTE

1 / E0.02 Fixture Schedule, Bandshell
Scale: NONE

Sigma Engineered Solutions, PC
N.C. LIC# C-3490
5909 Falls of Neuse Rd.
Suite 101
Raleigh, NC 27609
Ph: 919.840.8800
Fax: 919.840.8900
www.sigmaes.com
Sigma Project # 23058

WithersRavenel
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License #: F-1479 | t: 919.469.3340 | www.withersravenel.com

CONFORMED CONSTRUCTION DOCUMENTS

WHITEVILLE COMMUNITY SPACE

907 S MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

DocuSigned by: Reginald Adams
NORTH CAROLINA PROFESSIONAL SEAL 19658 ENGINEER REGINALD D. ADAMS
8/18/2025

INITIAL PLAN DATE: 08/25/2025
REVISIONS:

WR JOB NUMBER 23-0695
DRN: DGN: CKD:

ELECTRICAL NOTES & SCHEDULES

E0.02

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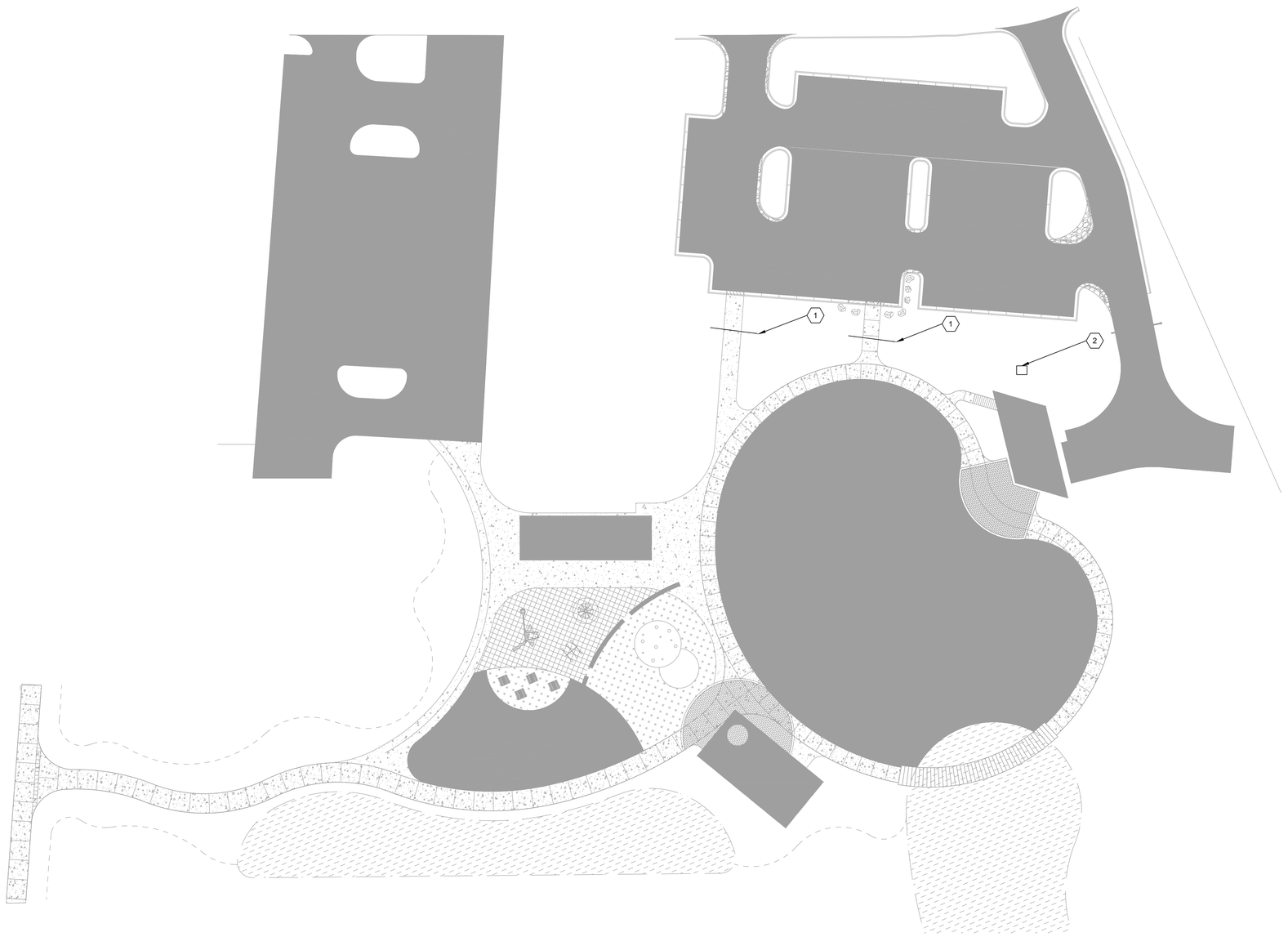

1 E1.00 ELECTRICAL SITE PLAN
Scale: 1" = 20'-0"

KEYED NOTES:

1. PROVIDE TWO (2) 4" SLEEVES AT 36" BELOW GRADE FOR USE BY UTILITY.
2. BANDSHELL UTILITY TRANSFORMER.

Sigma Engineered Solutions, PC
N.C. LBR C-3490
3904 Hillsborough Rd
Suite 101
Durham, NC 27705
Ph: 919.943.0800
Fax: 919.943.0900
www.sigmaes.com
Sigma Project #: 2308

WithersRavenel
115 MacKenan Drive | Cary, NC 27511
License #: F-1479 | t: 919.469.3340 | www.withersravenel.com

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907 S MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

DocuSigned by:
Mr. Reginald D. Adams
61D9B8B4A4A1402...

NORTH CAROLINA PROFESSIONAL SEAL 19658 ENGINEER REGINALD D. ADAMS
8/18/2025

SCALE: 1 inch = 20'-0"

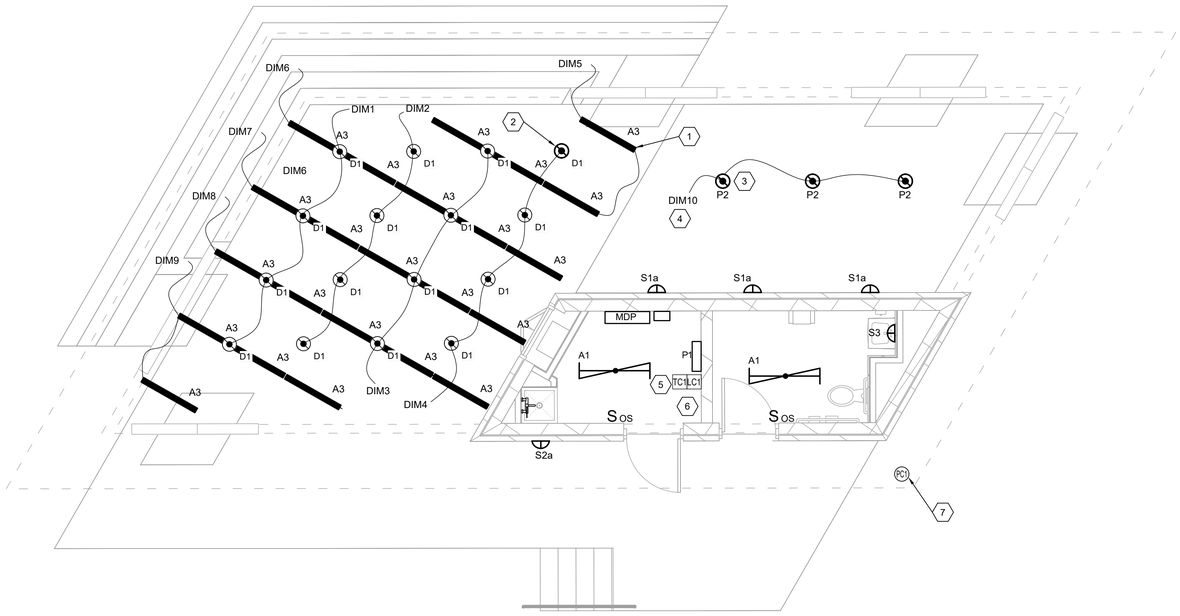
INITIAL PLAN DATE: 08/25/2025
REVISIONS:

WR JOB NUMBER 23-0695
DRN: DGN: CKD:

ELECTRICAL SITE PLAN

E1.00

Docusign Envelope ID: 2B3F6B11-9712-4C18-82E9-5A6092D30DD0



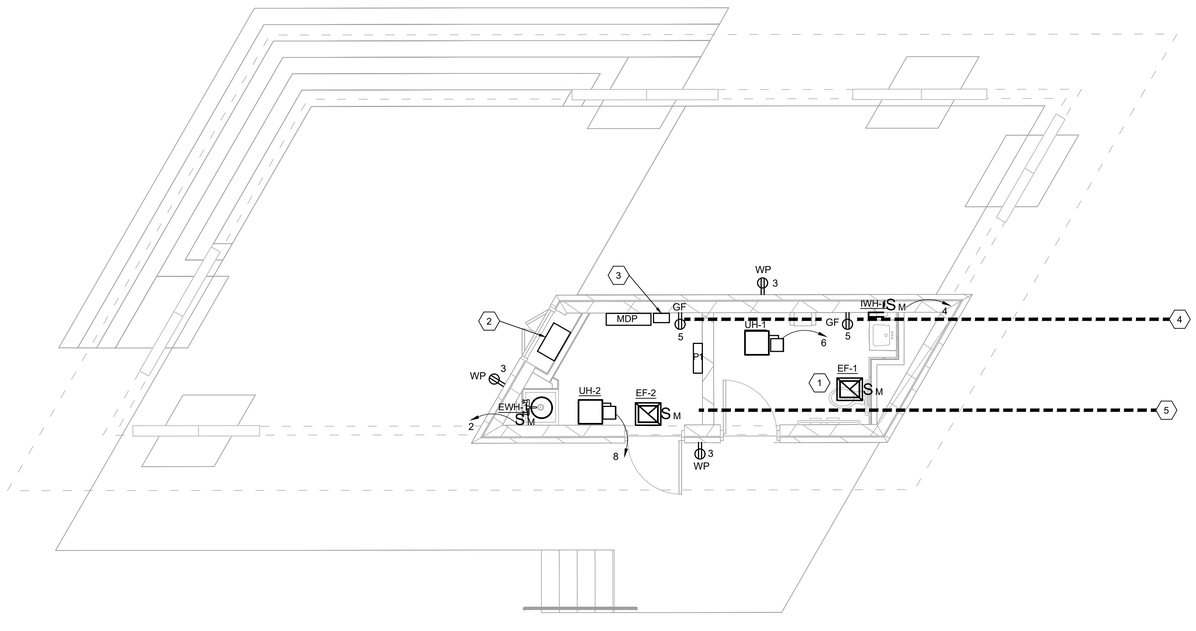
1 E2.00 LTG. PLAN, Bandshell
Scale: 1/4" = 1'-0"

GENERAL NOTES :

1. REFER TO SHEET E002 FOR FIXTURE SCHEDULE.
2. REFER TO SHEET E400 FOR POWER RISERS AND PANEL SCHEDULES WIRE AND CONDUIT SIZES ARE NOTED ON THE SCHEDULES..
3. ALL DEVICES, EQUIPMENT, ETC ARE CIRCUITED TO PANEL "P1" UON.

KEYED NOTES:

1. TYPE "A3" FIXTURE TO BE PROVIDED ON TOP OF TRUSS CORD. REFERENCE A-SERIES DRAWINGS FOR ADDITIONAL INFORMATION. TYPICAL.
2. TYPE "D1" TO BE PROVIDED ON BOTTOM OF TRUSS CORD. REFERENCE A-SERIES DRAWINGS FOR ADDITIONAL INFORMATION. TYPICAL.
3. TYPE "P2" TO BE PROVIDED ON STRUCTURE. REFERENCE A-SERIES DRAWINGS FOR ADDITIONAL INFORMATION. TYPICAL.
4. PROVIDE WIRING FROM FIXTURES AS SHOWN TO DIMMERS NOTED BELOW. TYPICAL OF ALL WIRING SHOWN TO DIMMERS (DIM) DIM1-DIM7.
5. PROVIDE LIGHTING CONTACTOR AND TIME CLOCK PER DETAIL SHEET E400.
6. PROVIDE TEN (10) DIMMER SWITCHES THIS LOCATION FOR EXTERIOR LIGHTING. PROVIDE DIMMERS COMPATIBLE WITH FIXTURE DRIVERS. PROVIDE REMOTE LOW VOLTAGE DRIVERS FOR TYPE "A3" FIXTURES ABOVE DIMMERS.
7. PROVIDE 120V PHOTOCELL AND TIE INTO CONTROL SCHEMATIC PER E400.



2 E2.00 POWER PLAN, Bandshell
Scale: 1/4" = 1'-0"

GENERAL NOTES :

1. REFER TO SHEET E002 FOR FIXTURE SCHEDULE.
2. REFER TO SHEET E400 FOR POWER RISERS AND PANEL SCHEDULES WIRE AND CONDUIT SIZES ARE NOTED ON THE SCHEDULES..
3. ALL DEVICES, EQUIPMENT, ETC ARE CIRCUITED TO PANEL "P1" UON.

KEYED NOTES:

1. WIRE EF-1 AND EF-2 THRU LIGHTING CONTROL.
2. 400 AMPERE 208Y/120 VOLT COMPANY SWITCH.
3. PROVIDE SURGE SUPPRESSION AT MDP.
4. SERVICE LATERAL TO UTILITY TRANSFORMER.
5. PROVIDE 2-4"C TO 10'-0" OUTSIDE OF BUILDING AND CAP BOTH ENDS. EXTEND CONDUIT INSIDE THE BUILDING TO 6" AFF.

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WithersRavenel
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CONFORMED CONSTRUCTION DOCUMENTS

WHITEVILLE COMMUNITY SPACE

907 S MADISON ST | WHITEVILLE, NC 28472 | COLUMBUS COUNTY

DocuSigned by:
Mr. Reginald D. Adams
NORTH CAROLINA PROFESSIONAL SEAL 19658 ENGINEER REGINALD D. ADAMS
8/18/2025

SCALE: 1 inch = 4'-0"

INITIAL PLAN DATE: 08/25/2025
REVISIONS:

WR JOB NUMBER 23-0695
DRN: DGN: CKD:

ELECTRICAL NEW WORK PLANS

E2.00

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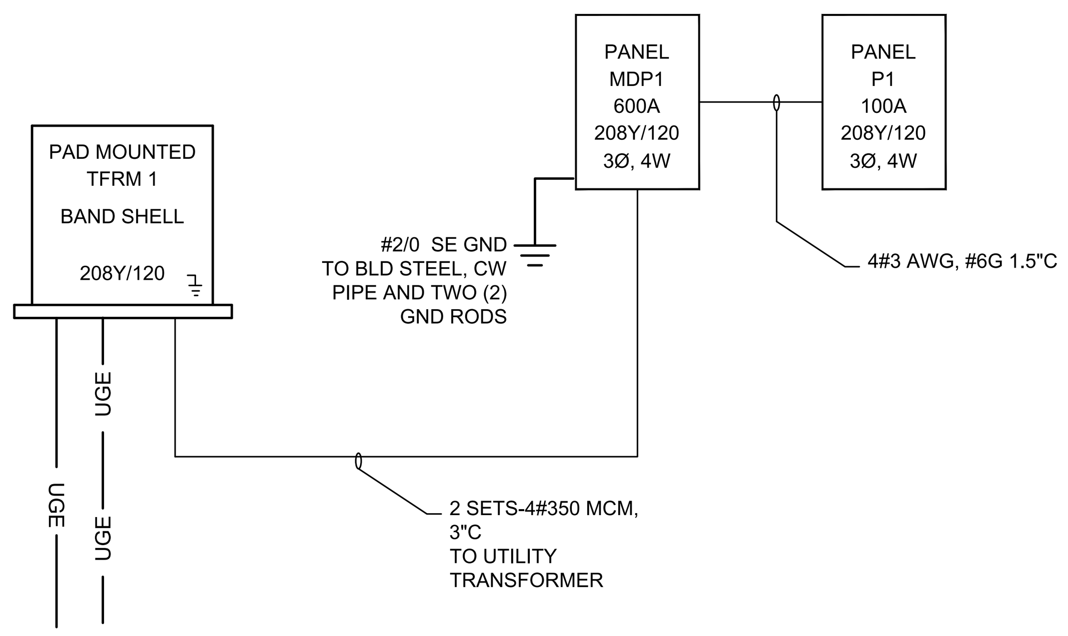
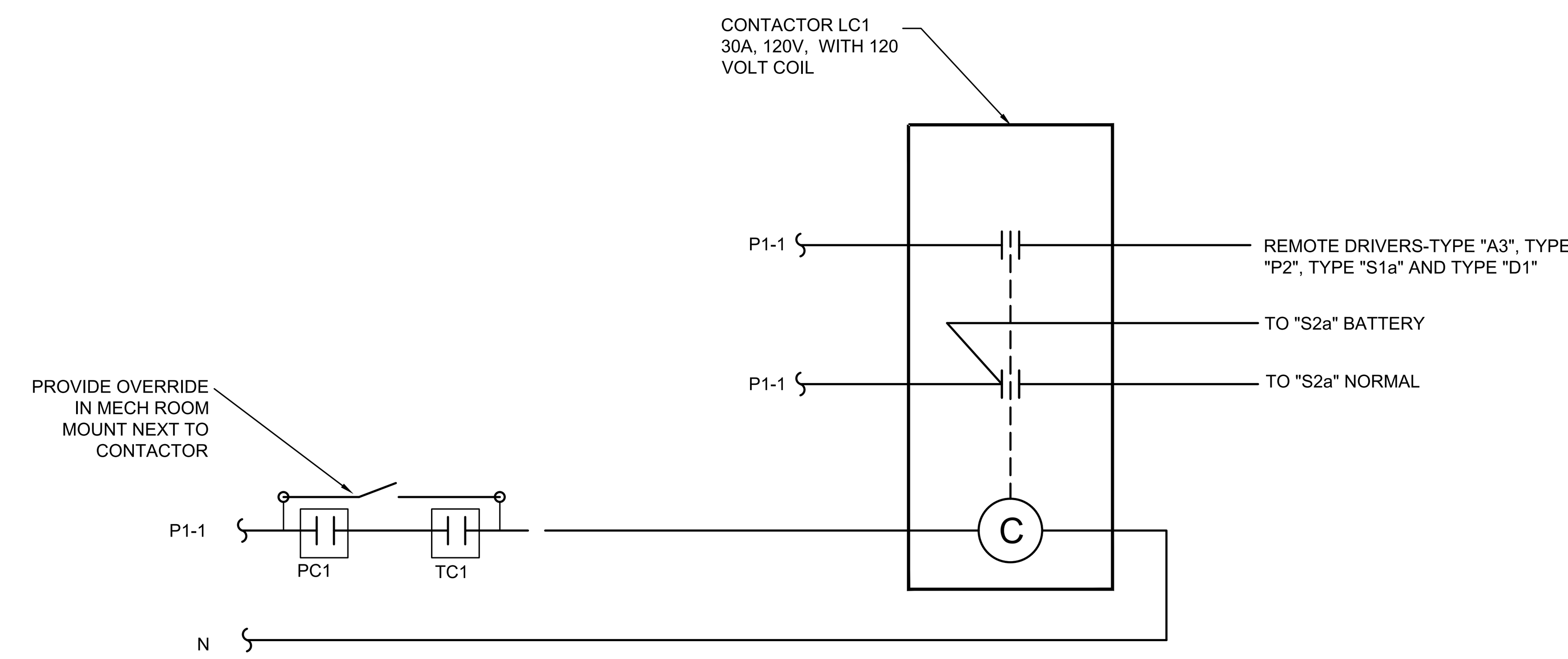


1 / E4.00 Power Riser, Bandshell
Scale: NONE



2 / E4.00 LIGHTING CONTROL, Bandshell
Scale: NONE

PANEL "MDP1"
SE RATED

PANEL TYPE: I-LINE | BUS SIZE: 600A | VOLTAGE: 208Y/120
MLO: MCB | MOUNTING: SURFACE | MINIMUM AIC: 35,000

CKT	LOAD SERVED	TRIP	POLE	WIRE	GND	CONDUIT	kVA	kVA PER PHASE A	B	C	kVA	CONDUIT	GND	WIRE	POLE	TRIP	LOAD SERVED	CKT
1								0.00										2
3									0.00									4
5										0.00								6
7								0.00										8
9									0.00									10
11										0.00								12
13								0.00										14
15									0.00									16
17										0.00								18
19								0.00										20
21									0.00									22
23										0.00								24
25								0.00										26
27									0.00									28
29										0.00								30
31	COMPANY SWITCH	400	3	REFER TO RISER			38.40	38.40										32
33							38.40		38.40									34
35							38.40			38.40								36
37	PANEL P1	100	3	REFER TO RISER			5.40	5.40						#8				38
39							5.40		5.40			3/4"	#10	#8	3	50	TVSS	40
41							5.40			5.40				#8				42
								43.80	43.80	43.80								

	CONNECTED LOAD (KVA)	DF	DEMAND LOAD (KVA)
LIGHTING	0.80	125%	1.00
FIRST 10K RECEPTS	0.90	100%	0.90
REMAINDER RECEPT	0.00	50%	0.00
LARGEST MOTOR	0.00	125%	0.00
MOTOR	0.00	100%	0.00
ELEVATOR	0.00	100%	0.00
KITCHEN	0.00	65%	0.00
COMPANY SWITCH	115.20	125%	144.00
MISC	8.00	100%	8.00
TOTAL (KVA)	124.90		153.90
TOTAL AMPS	347		427

NOTES
L-PROVIDE WITH LOCK OUT CLIP
PL-PROVIDE WITH PADLOCKABLE BREAKER
G-GFCI PROTECTED
A-AFCI PROTECTED
GF-GFPE PROTECTED
S- SHUNT TRIP
H-HACR BREAKER
*-PHASE/NEUTRAL

PANEL "P1"

PANEL TYPE: NQOD | BUS SIZE: 100A | VOLTAGE: 208Y/120
MCB or MLO: MLO | MOUNTING: SURFACE | MINIMUM AIC: 22,000

CKT	LOAD SERVED	TRIP	POLE	WIRE	GND	CONDUIT	kVA	kVA PER PHASE A	B	C	kVA	CONDUIT	GND	WIRE	POLE	TRIP	LOAD SERVED	CKT
1	LIGHTING	20	1	#10*	#10	3/4"	0.80	2.40			1.60	3/4"	#10	#10*	1	20	WH-1	2
3	INTERIOR RECEPTACLES	20	1	#10*	#10	3/4"	0.54		2.94		2.40	3/4"	#10	#10*	1	20	IWH-1	4
5	EXTERIOR RECEPTACLES	20	1	#10*	#10	3/4"	0.36			1.36	1.00	3#12, #12G 3/4"C			1	20	UH-1	6
7		20	1					1.00			1.00							8
9		20	1						1.00		1.00	3#12, #12G 3/4"C			1	20	UH-1	10
11		20	1							1.00	1.00							12
13		20	1					0.00										14
15		20	1						0.00									16
17		20	1							0.00								18
19		20	1					0.00										20
21		20	1						0.00									22
23		20	1							0.00								24
25		20	1					0.00										26
27		20	1						0.00									28
29		20	1							0.00								30

[redacted]

TOTALS:	3.40	3.94	2.36

	CONNECTED LOAD (KVA)	DF	DEMAND LOAD (KVA)
LIGHTING	0.80	125%	1.00
FIRST 10K RECEPTS	0.90	100%	0.90
REMAINDER RECEPT	0.00	50%	0.00
LARGEST MOTOR		125%	0.00
MOTOR		100%	0.00
ELEVATOR		100%	0.00
KITCHEN		65%	0.00
EVCS		125%	0.00
MISC	8.00	100%	8.00
TOTAL (KVA)	9.70		9.90
TOTAL AMPS	27		27

NOTES
L-PROVIDE WITH LOCK OUT CLIP
PL-PROVIDE WITH PADLOCKABLE BREAKER
G-GFCI PROTECTED
A-AFCI PROTECTED
GF-GFPE PROTECTED
S- SHUNT TRIP
*-PHASE/NEUTRAL

3 / E4.00 Panel Schedules, Bandshell
Scale: NONE

Sigma Engineered Solutions, PC
N.C. LIC# C-2490
5909 Falls of Neuse Rd.
Suite 101
Raleigh, NC 27609
Ph: 919.840.9300
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WithersRavenel
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CONFORMED CONSTRUCTION DOCUMENTS
WHITEVILLE
COMMUNITY SPACE
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DocuSigned by:
Mr. Reginald D. Adams
61D76000BFA242E
NORTH CAROLINA PROFESSIONAL SEAL 19658 ENGINEER REGINALD D. ADAMS
8/18/2025

INITIAL PLAN DATE: 08/25/2025
REVISIONS:

WR JOB NUMBER 23-0695
DRN: DGN: CKD:

ELECTRICAL RISER, DETAILS AND SCHEDULES

E4.00

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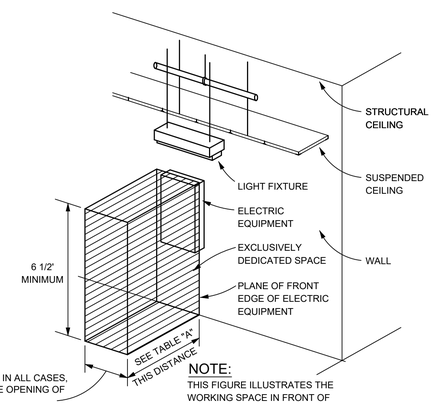
TABLE "A" WORKING CLEARANCES				
NOMINAL VOLTAGE TO GROUND	CONDITION: 1	2	3	
	MINIMUM CLEAR DISTANCE (FEET)			
0-150	3	3	3	
151-600	3	3.5	4	

WHERE THE "CONDITIONS" ARE AS FOLLOWS:

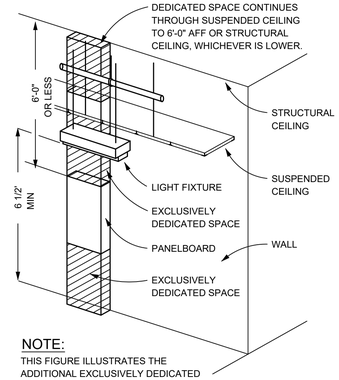
1. EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR OTHER INSULATING MATERIALS. INSULATED WIRE OR INSULATED BUSBARS OPERATING AT NOT OVER 300 VOLTS SHALL NOT BE CONSIDERED LIVE PARTS.
2. EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE. CONCRETE, BRICK, OR TILE WALLS SHALL BE CONSIDERED AS GROUNDED.
3. EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.

NOTE:
DEDICATED SPACE CONTINUES THROUGH SUSPENDED CEILING TO A HEIGHT OF 6FT ABOVE THE EQUIPMENT OR TO THE STRUCTURE CEILING, WHICH EVER IS LOWER.



WIDTH OF EQUIPMENT OR 30", WHICHEVER IS GREATER. IN ALL CASES, THE WORK SPACE SHALL PERMIT AT LEAST A 90 DEGREE OPENING OF EQUIPMENT DOORS OR HINGED PANELS.

NOTE:
THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF ELECTRIC EQUIPMENT REQUIRED BY SECTION 110.26 OF THE NATIONAL ELECTRICAL CODE.



NOTE:
THIS FIGURE ILLUSTRATES THE ADDITIONAL EXCLUSIVELY DEDICATED SPACE REQUIRED OVER AND UNDER PANELBOARDS FOR CABLES, RACEWAYS, ETC. TO AND FROM PANELBOARDS REQUIRED BY SECTION 110.26 OF THE NATIONAL ELECTRICAL CODE.

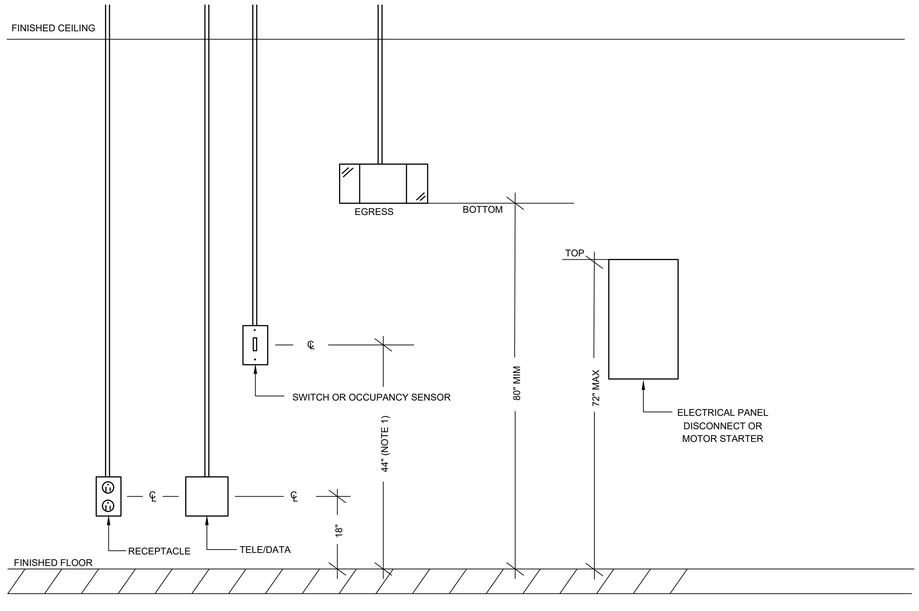
ALL ELECTRIC EQUIPMENT

PANELBOARDS

NOTE:
THIS INCLUDES BUT IS NOT LIMITED TO PANELBOARDS, SAFETY SWITCHES, MOTOR STARTERS, JUNCTION BOXES AND OTHER ELECTRIC EQUIPMENT.

NOTE:
NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THROUGH THE DEDICATED SPACES SHOWN ABOVE.

1 / E5.00 NEC CLEARANCE DETAIL
Scale: NONE



NOTE:
1. IF MOUNTED TO ADJACENT SECURITY DEVICES SUCH AS CARD READERS, ALIGN WITH THOSE DEVICES.

2 / E5.00 MT. HEIGHTS DETAIL
Scale: NONE

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N.C. LIC# C-3490
3904 Faber Street, Suite 101
York, SC 29745
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8/18/2025

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DETAILS

E5.00