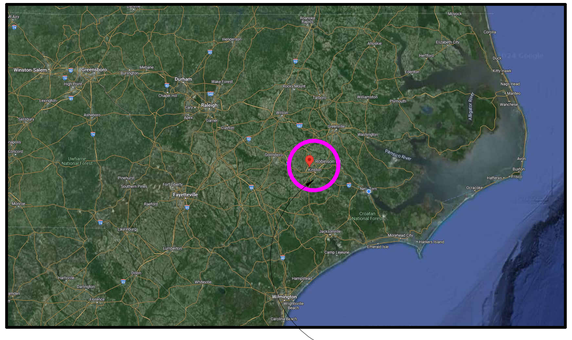
NC Forest Service County Office for Lenior County

DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES

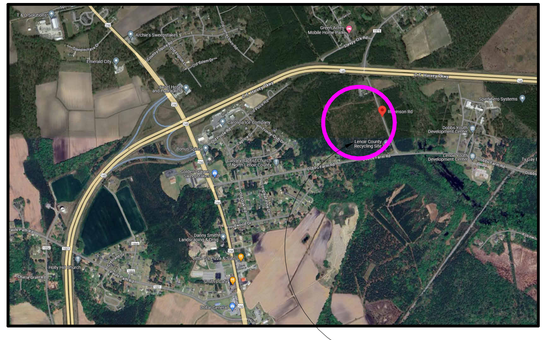
SCO# 23-26839-01A

VICINITY MAP



PROJECT LOCATION,
LENOIR COUNTY, NC

LOCATION MAP



PROJECT SITE

LIST OF SHEETS

GENERAL PROJECT NOTES

1. ALL MATERIALS MUST BE NEW PROVIDED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED AS EXISTING OR AS PROVIDED BY THE OWNER.

2. ALL WOOD BLOCKING AND MISCELLANEOUS STEEL SHOWN IN DETAILS AND SECTIONS MUST BE CONTINUOUS UNLESS SPECIFICALLY NOTED OTHERWISE.

3. VERIFY ALL FIELD CONDITIONS AND DIMENSIONS PRIOR TO PROCEEDING WITH THE WORK. DIMENSIONS FOR EXISTING WORK ARE INDICATED AS "±". ALL DISCREPANCIES MUST BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT IN WRITING.

4. DIMENSIONS INDICATED FOR NEW WORK ARE TO FACE OF STUD, FACE OF MASONRY OR FACE OF EXISTING SURFACES UNLESS OTHERWISE NOTED.

5. STUDY AND COMPARE THE CONTRACT DOCUMENTS WITH EACH OTHER, AND AT ONCE, REPORT TO THE ARCHITECT ANY ERRORS AND INCONSISTENCIES OR OMISSIONS DISCOVERED. ANY CONSTRUCTION ACTIVITY PERFORMED KNOWING IT INVOLVES A RECOGNIZED ERROR, INCONSISTENCY OR OMISSION IN THE CONTRACT DOCUMENTS WITHOUT SUCH NOTICE TO THE ARCHITECT, THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR SUCH PERFORMANCE AND WILL BEAR THE AMOUNT OF THE COST OF THE CONSTRUCTION.

GOVERNING REGULATIONS

BUILDING CODE:
NORTH CAROLINA STATE BUILDING CODE (2018)

ACCESSIBILITY CODE:
ACCESSIBLE AND USABLE BUILDINGS & FACILITIES- ICC A117.1 2009

MECHANICAL CODE:
NORTH CAROLINA STATE MECHANICAL CODE (2018)

ELECTRICAL CODE:
NFPA 70, NATIONAL ELECTRIC CODE

PLUMBING CODE:
NORTH CAROLINA STATE PLUMBING CODE (2018)

FIRE PREVENTION & LIFE SAFETY CODE:
NORTH CAROLINA STATE FIRE PREVENTION CODE (2018)

WALKER the GROUP ARCHITECTURE
incorporated
PO BOX 541, NEW BERN, NC 28563
252-636-8778

Christopher B. Walker
REGISTERED
SEAL
15616
09/12/25
ARCHITECT
NORTH CAROLINA

New NC Forest Service County Office for Lenior County

Robinson Rd, NCSR 1574
Lenior County, NC 28504

Bid Documents
SCO# 23-26839-01A

Revisions
No. Date

Project Number
2318.NCFS

Date
09/12/25

Drawn
TRA

Checked
CBW

Scale
AS NOTED

Drawing Title
TITLE SHEETS, SHEET LIST & LOCATION MAPS

Sheet Number
1 Of 47

Drawing Number
GI001

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

Name of Project: New Forest Service County Office at Lenior County

Address: Robinson Rd, NCSR 1574 Lenior County, NC — Zip Code: 28504

Owner or Authorized Agent: Chris Walker — Phone # : 252-636-8778 — Email : chris@wgarc.com

Owned By: [ ] City/County [ ] Private [X] State

Code Enforcement Jurisdiction: [ ] City _____ [X] County Lenior County [X] State

CONTACT

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	EMAIL
Architectural	The Walker Group Architecture, Inc.	Chris Walker	15616	252-636-8778	chris@wgarc.com
Civil					
Electrical	Entech Engineering	Derrick Ham	31466	919-778-9064	dham@entech-pme.com
Fire Alarm					
Plumbing	Entech Engineering	Derrick Ham	31466	919-778-9064	dham@entech-pme.com
Mechanical	Entech Engineering	Derrick Ham	31466	919-778-9064	dham@entech-pme.com
Sprinkler-Standpipe					
Structural	Larion Engineering	Shannon Weaver	028643	910-376-5582	sweaver@larion.net
Retaining Walls > 5' High					
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

2015 NC EXISTING BUILDING CODE:
- [ ] Prescriptive [ ] Repair [ ] Chapter 14
- [ ] 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):** (B) Business

RISK CATEGORY: (Table 1604.5) Current: [ ] I [ ] II [ ] III [ ] IV Proposed: [ ] I [X] II [ ] III [ ] IV

BASIC BUILDING DATA

Construction Type: (Check all that apply) [ ] I-A [ ] I-B [ ] II-A [ ] II-B [ ] III-A [ ] III-B [ ] IV [ ] V-A [X] V-B

Sprinkler: [X] No [ ] Partial [ ] Yes [ ] NFPA 13 [ ] NFPA 13R [ ] NFPA 13D

Standpipes: [X] No [ ] Yes Class [ ] I [ ] II [ ] III [ ] Wet [ ] Dry

Fire District: [X] No [ ] Yes **Flood Hazard Area:** [X] No [ ] 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)	SUBTOTAL
3rd Floor			
2nd Floor			
Mezzanine			
1st Floor		1200 SF	1200 SF
Basement			
TOTAL		1200 SF	1200 SF

ALLOWABLE AREA

Primary Occupancy Classifications(s):

Assembly [ ] A-1 [ ] A-2 [ ] A-3 [ ] A-4 [ ] A-5
Business [X]
Educational [ ]
Factory [ ] F-1 Moderate [ ] F-1 Low
Hazardous [ ] H-1 Detonate [ ] H-2 Deflagrate [ ] H-3 Combust [ ] H-4 Health [ ] H-5 HPM
Institutional [ ] I-1 Condition 1 [ ] 2 [ ] I-1 Condition 2 [ ] I-2 Condition 1 [ ] 2 [ ] I-2 Condition 2 [ ] I-3 Condition 1 [ ] 2 [ ] I-3 Condition 2 [ ] 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 & Miscellaneous [ ]

Accessory Occupancy Classifications(s): _____

Incidental Uses (Table 509): _____

Special Uses (Chapter 4- List Code Sections): _____

Special Provisions (Chapter 5- List Code Sections): _____

Mixed Occupancy: [X] No [ ] Yes Separation 0 Hr. Exception: _____

[X] 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 (302.3.2) - 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.

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

$$\frac{\quad}{\quad} + \frac{\quad}{\quad} = \quad \leq 1.00$$

STORY NO.	DESCRIP. & USE	(A) BLDG. AREA PER STORY (ACTUAL)	(B) TABLE 506.2 AREA	(C) AREA FOR FRONTAGE INCREASE[1]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
1st Floor	Business	1200 SF	9000 SF	6750 SF	15,750 SF

[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 = 141' (F)
b. Total Building Perimeter = 141' (P)
c. Ratio (F/P) = 1 (F/P)
d. W = Minimum width of public way = 30' (W)
e. Percent of frontage increase I = 100 [F/P-0.25] x W/30 = 75 (%)

[2] Unlimited area applicable under conditions of Section 507.
[3] Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
[4] The maximum area of 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 PLAN	CODE REFERENCE[1]
Building Height in Feet (Table 504.3)[3]	40'	20'-10"	503
Building Height in Stories (Table 504.4)	1	1	503

[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

Life Safety Plan Sheet #, if Provided G1003

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/_____ REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural Frame including columns, girders, trusses							
Bearing walls							
Exterior							
North							
East							
West							
South							
Interior							
Nonbearing walls and partitions							
Exterior							
North							
East							
West							
South							
Interior							
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							
Fire Area Separation							
Smoke Barrier Separation							
Smoke Partition							
Tenant/Dwell. Unit/ Sleeping Unit Separation							
Incidental Use Separation							

PERCENTAGE OF WALL OPENING CALCULATIONS

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

LIFE SAFETY SYSTEM REQUIREMENTS

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

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet # G1003

- [ ] 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)
- [X] Occupancy Use for each area as it relates to occupant load calculations (Table 1004.1.2)
- [X] Occupant loads for each area
- [X] Exit access travel distances (1017)
- [X] Common path of travel distances (Tables 1006.2.1 and 1006.3.2(1))
- [X] Dead-end lengths (1020.4)
- [X] Clear exit widths for each exit door
- [X] Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
- [X] 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
- [X] 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)

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

ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	
TOTAL	4	6			2	2

PLUMBING FIXTURE REQUIREMENT (TABLE 2902.1) TOTAL BUILDING OCCUPANCY- 8 OCCUPANTS

USE		WATERCLOSETS			URINALS	LAVATORIES			SHOWERS/ TUBS	DRINKING FOUNTAINS	
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
SPACE	EXISTING										
	NEW			1				1			1
	REQUIRED			1				1			1

SPECIAL APPROVALS

Special Approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

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)

Excempt Building: [X] No [ ] Yes (Provide code or statutory reference): _____

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

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

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly): METAL ROOF, VAPOR BARRIER, 1/2" SHEATHING, WOOD TRUSSES, R-38 BATT INSULATION,
Description of assembly: GYPSUM BOARD CEILING
U-Value of total assembly: 0.04
R-Value of insulation: 38
Skylights in each assembly: N/A
U-Value of skylight
Total square footage of skylights in each assembly

Exterior Walls (each assembly): FIBER CEMENT SIDING, VAPOR BARRIER, 2X6 WOD DSTUDS AT 16" O.C., R-20 BATT INSULATION,
Description of assembly: 5/8" GYPSUM BOARD.
U-Value of total assembly: 0.056
R-Value of insulation 20
Openings (windows or doors with glazing)
U-Value of assembly: 0.60
Solar heat gain coefficient: 0.25
Projection factor: 0.15
Door R-Values: 1.3

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: LVT FLOORING, 3/4" FLOOR SHEATHING, 2X10 FLOOR JOISTS, R-30 BATT INSULATION
U-Value of total assembly 0.03
R-Value of insulation 30

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

STRUCTURAL DESIGN

DESIGN LOADS:

Importance Factors: Snow (I_s) 1.0; Seismic (I_E) 1.0

Live Loads: Roof 20 psf; Mezzanine _____ psf; Floor 50/100 psf

Ground Snow Load: 10 psf

Wind Load: Ultimate Wind Speed 130 mph (ASCE-7-10); Exposure Catgory C

SEISMIC DESIGN CATEGORY: [X] A [ ] B [ ] C [ ] D
Provide the following Seismic Design Paramaters:
Occupancy Category (Table 1604.5) [ ] I [X] II [ ] III [ ] IV
Spectral Response Acceleration S_s 0.106G %g S_1 0.052G %g
Site Classification (ASCE 7) [ ] A [ ] B [ ] C [X] D [ ] E [ ] F
Date Source: [ ] Field Test [ ] Presumptive [ ] Historical Data
Basic Structural System: [ ] Bearing Wall [ ] Building Frame [ ] Moment Frame [ ] Dual w/Special Moment Frame [ ] Dual w/Intermediate R/C or Special Steel [ ] Inverted Pendulum
Analysis Procedure: [ ] Simplified [X] Equivalent Lateral Force [ ] Dynamic
Architectural,Mechanical,Components anchored? [ ] Yes [ ] No

LATERAL DESIGN CONTROL: [ ] Earthquake [X] Wind

SOIL BEARING CAPACITY:
Field Test (provide copy of test report) 2000 psf
Presumtive Bearing capacity _____ psf
Pile size, type and capacity _____

MECHANICAL DESIGN

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
winter dry bulb 24° F
summer dry bulb 83° F

Interior Design Conditions
winter dry bulb 74° F
summer dry bulb 75° F
relative humidity 50%

Building Heating Load - MBH

Building Cooling Load 3 TONS

Mechanical Spacing Conditioning System
Unitary
description of unit SPLIT SYSTEM HEAT PUMP
heating efficiency 80%
cooling efficiency 19 SEER
size category of unit
Boiler
size category. If oversized, state reason.
Chiller
size category. If oversized, state reason.

List Equipment efficiencies SEE MECHANICAL SCHEDULES

ELECTRICAL DESIGN (SEE ELECTRICAL DRAWINGS)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

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

Lighting Schedule (each fixture type)
lamp type required in fixture
number of lamps in fixture
ballast type used in fixture
number of ballast in fixture
total wattage per fixture
total interior wattage specified vs. allowed (whole building or space by space)
total exterior wattage specified vs. allowed

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

WALKER the GROUP ARCHITECTURE
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Christopher B. Walker REGISTERED SEAL 15616 09/12/25 ARCHITECT NORTH CAROLINA

New NC Forest Service County Office for Lenior County

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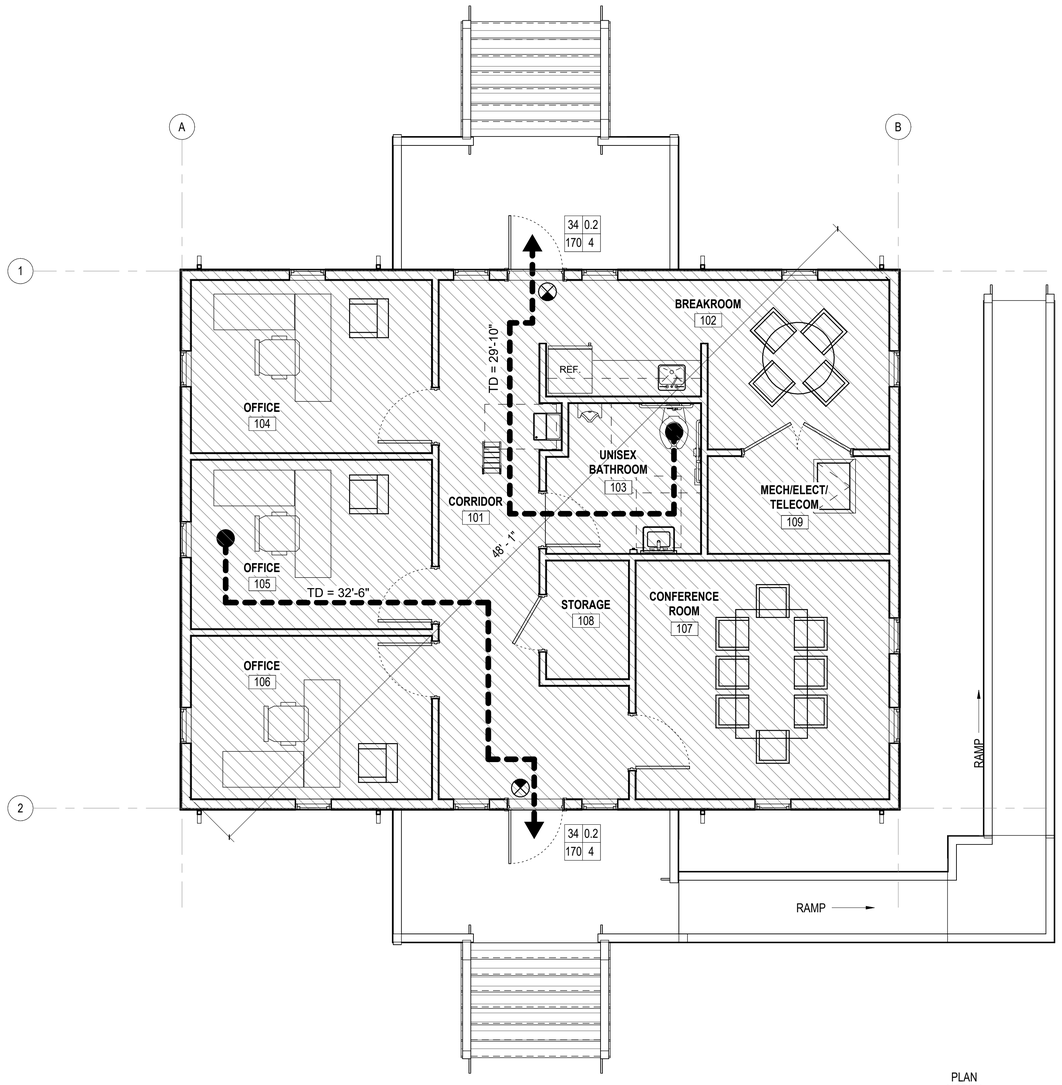
SCO# 23-26839-01A

Revisions
No. Date

Project Number 2318.NCFS
Date 09/12/25
Drawn Author
Checked Checker
Scale AS NOTED
Drawing Title

CODE ANALYSIS

Sheet Number 2 Of 47
Drawing Number G1002



LIFE SAFETY PLAN

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

PLAN NORTH

LIFE SAFETY PLAN LEGEND

SYMBOL	DESCRIPTION
CPT = X'-XX"	COMMON PATH OF TRAVEL
TD = X'-XX"	TRAVEL DISTANCE
W | P C | A	W: NET EXIT WIDTH (INCHES) C: CAPACITY (PEOPLE) P: EXIT WIDTH PER PERSON A: ACTUAL EGRESS (PEOPLE)
OCCUPANCY, TYPE A - ASSEMBLY B - BUSINESS S - STORAGE 1200 SF | B | 100 | 12	ROOM / ZONE AREA OCCUPANCY, ALLOWABLE AREA PER OCCUPANT OCCUPANCY LOAD (PEOPLE)
	(B) BUSINESS, 1200SF /150 = 8 TOTAL OCCUPANTS

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LIFE SAFETY PLAN

Sheet Number 3 Of 47
Drawing Number GI003

GENERAL CONSTRUCTION NOTES:

1. CONSTRUCTION OPERATIONS SHALL BE COMPLETED IN COMPLIANCE WITH ALL STATE AND FEDERAL REGULATIONS AND AS SPECIFIED.
2. THE PLANS DEPICT THE GENERAL INTENT OF CONSTRUCTION. THE CONTRACTOR SHALL PROTECT ALL EXISTING FEATURES THAT ARE NOT SLATED FOR DEMOLITION. ANY ITEM DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO ITS ORIGINAL CONDITION OR REPLACED WITH NEW.
3. DIMENSIONS AND CONDITIONS SHOWN ARE APPROXIMATE AND ARE ACCURATE AS OF THE TIME OF SITE INSPECTION. THE CONTRACTOR SHALL CONFIRM TO HIS OWN SATISFACTION SITE CONDITIONS INCLUDING A VERIFICATION OF CONDITIONS SHOWN AND NOT SHOWN.
4. PRIOR TO STARTING CONSTRUCTION ON ANY STRUCTURES OR UTILITIES, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS OF ANY STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL DEVELOP A PLAN OF CONSTRUCTION THAT ENSURES ALL ACTIVITIES ARE COMPLETED IN A SAFE MANNER. PROVIDE ANY TEMPORARY SHORING, SHEETING OR SUPPORT REQUIRED TO COMPLETE WORK IN A SAFE MANNER.
5. ALL EXCAVATIONS CREATED BY CONSTRUCTION ACTIVITIES SHALL BE BACKFILLED WITH COMMON FILL, SHALL BE GRADED TO CREATE POSITIVE DRAINAGE, AND SHALL BE VEGETATED IN ACCORDANCE WITH THE PROJECT VEGETATION PLAN. GRAVEL AND PAVED SURFACES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
6. ALL EROSION CONTROL FEATURES SHOWN SHALL BE INSTALLED PRIOR TO CONSTRUCTION ACTIVITIES STARTING.
7. THE CONTRACTOR SHALL MINIMIZE DUST GENERATED FROM CONSTRUCTION ACTIVITIES BY WET METHODS OR OTHER APPROVED METHODS.
8. WHERE ROADS, SIDEWALKS, ETC ARE INDICATED TO BE CUT AND PATCHED, EACH SHALL BE REMOVED AND REPLACED ALONG NEAT SAWCUT LINES, AND TO THE NEAREST JOINT WHERE IT EXISTS.
9. ANY FILL MATERIAL REQUIRED TO ESTABLISH THE FINISH GRADES SHOWN SHALL BE OBTAINED FROM A PROPERLY PERMITTED BORROW PIT. ANY EXCESS SOIL MATERIAL GENERATED FROM CONSTRUCTION ACTIVITIES SHALL BE DISPOSED OF OFF OF THE PROPERTY.

UTILITY CONSTRUCTION NOTES:

1. THE LOCATION AND DEPTHS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL SECURE THE SERVICES OF A PROFESSIONAL UTILITY LOCATE CONTRACTOR TO MARK ALL EXISTING UTILITIES IN THE AREA OF WORK. UTILITY MARKINGS SHALL BE MAINTAINED FOR THE DURATION OF DEMOLITION ACTIVITIES.
2. EXISTING UTILITIES SHALL NOT BE INTERRUPTED WITHOUT THE APPROVAL OF THE OWNER.
3. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE, TO ORIGINAL CONDITION, ANY UTILITIES DAMAGED DURING CONSTRUCTION ACTIVITIES FROM THE CONTRACTOR'S OPERATIONS.
4. ALL COSTS ASSOCIATED WITH LOCATING, DISCONNECTING ABANDONING AND CAPPING OF UTILITY LINES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL ELECTRICAL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.

HAZARDOUS AND OTHER MATERIAL SPECIAL HANDLING NOTES:

1. THE CONTRACTOR SHALL REMOVE AND LEGALLY DISPOSE OF ALL CONSTRUCTION WASTE AND EXCESS MATERIAL OFF OF THE PROPERTY. THE CONTRACTOR SHALL COMPLY WITH ALL STATE, LOCAL AND FEDERAL HAULING AND DISPOSAL REGULATIONS.
2. BURNING ON THE PROPERTY IS NOT PERMITTED.

CIVIL LEGEND

EXISTING	DESCRIPTION	NEW
	WATER VALVE	
CO	SANITARY SEWER CLEANOUT	CO
TPED	COMMUNICATIONS PEDESTAL	
	UTILITY POLE/POLE WITH LIGHT	
	GUY WIRE	
S	SANITARY SEWER (GRAVITY)	S
D	STORM SEWER	D
W	WATER	W
OHE	OVERHEAD ELECTRICAL	
UGE	UNDERGROUND ELECTRICAL	UGE
UGC	UNDERGROUND COMMUNICATIONS	
G	UNDERGROUND GAS	
	FENCE	
	CONCRETE	
	ASPHALT	
	GRAVEL	
	SILT FENCE	SLT
	SURVEY CONTROL POINT	
5.00	SPOT ELEVATIONS	XX.XX
	SIGN	
	DEMOLITION ITEMS	

ABBREVIATIONS

APPROX.	APPROXIMATE/APPROXIMATELY
CJ	CONTRACTION JOINT
CL, C/L	CENTER LINE
CF	CUBIC FEET
CONT.	CONTINUOUS
CMP	CORRUGATED METAL PIPE
CONC.	CONCRETE
CPP	CORRUGATED PLASTIC PIPE
CUMM.	CUMULATIVE
DIA, ø	DIAMETER
DI	(STORM DRAIN) DROP INLET
DMH	DRAINAGE MANHOLE
EL=, ELEV	ELEVATION
E:	EASTING
ELEC.	ELECTRIC; ELECTRICAL
ETC.	ET CETERA
EX., EXIST.	EXISTING
FES	FLARED END SECTION
FH	FIRE HYDRANT
HVAC	HEATING, VENTILATION AND AIR CONDITIONING (EQUIPMENT)
INV	INVERT
LF	LINEAR FOOT/FEET
MAG	MAG NAIL (CONTROL)
MAX	MAXIMUM
MIN	MINIMUM
N:	NORTHING
NO./#	NUMBER
PIV	POST INDICATOR VALVE
PVC	POLYVINYL CHLORIDE (PIPE)
RCP	REINFORCED CONCRETE PIPE
SMH	SANITARY SEWER MANHOLE
SF	SQUARE FOOT/FEET
SLT	SILT FENCE
SQ.	SQUARE
TBM	TEMPORARY BENCHMARK
TYP.	TYPICAL
VOL.	VOLUME
WWF	WELDED WIRE FABRIC
&	AND
@	AT
±	PLUS OR MINUS
%	PERCENT
=	EQUALS

EROSION CONTROL NOTES:

SCHEDULE OF EROSION AND SEDIMENTATION CONTROL ACTIVITIES

1. INSTALL SILT FENCING, GRAVEL CONTROL ENTRANCE AND CHECK DAMS AS INDICATED.
2. COMPLETE SITE CONSTRUCTION AS INDICATED.
3. FINE GRADE SITE AS INDICATED.
4. STABILIZE AND VEGETATE ALL AREAS NOT TO BE FURTHER DISTURBED BY CONSTRUCTION ACTIVITIES PER THE VEGETATION PLAN AND STATED TIME CONSTRAINTS.
5. INSTALL SOD TO ESTABLISH FINAL VEGETATION.
6. ADDITIONAL MISCELLANEOUS EROSION CONTROL MEASURES MAY BE REQUIRED WHEN DEEMED NECESSARY BY THE CONTRACTING OFFICER OR CONTRACTOR.
7. REMOVE SILT FENCING ONCE VEGETATION IS 95% ESTABLISHED MINIMUM.

MAINTENANCE PLAN

1. ALL EROSION AND SEDIMENTATION CONTROL DEVICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL EVENT BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL DEVICES IN THE OPERATIONAL CONDITIONS INTENDED.
2. ALL AREAS WILL BE FERTILIZED, VEGETATED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATION PLAN IN ORDER TO ESTABLISH AND MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER. ANY SEDIMENT TRACKED ONTO THE ADJACENT ASPHALT ROAD SHALL BE REMOVED ON A DAILY BASIS.
3. SEDIMENT SHALL BE REMOVED FROM BEHIND SILT FENCING PRIOR TO THE SEDIMENT ACCUMULATING TO A MAXIMUM DEPTH OF SIX INCHES.

SPECIAL SEEDING NOTE:

TEMPORARY: ALL DENUDED AREAS WILL, WITHIN 7 DAYS OF STOPPING GRADING ACTIVITIES AT ANY PHASE OF CONSTRUCTION, BE PLANTED AND PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION.

PERMANENT: ALL DENUDED AREAS WILL, WITHIN 7 DAYS OF COMPLETION OF CONSTRUCTION, BE PROVIDED PERMANENT GROUND COVER.

EROSION CONTROL SYMBOL LEGEND:

SLT — · · · — SLT = SILT FENCE, SEE DETAIL A, SHEET CG501

= GRAVEL CONTROL ENTRANCE, SEE DETAIL B, SHEET CG501

= CHECK DAM, SEE DETAIL C, SHEET CG501

= INLET/OUTLET PROTECTION, SEE DETAIL D, SHEET CG501

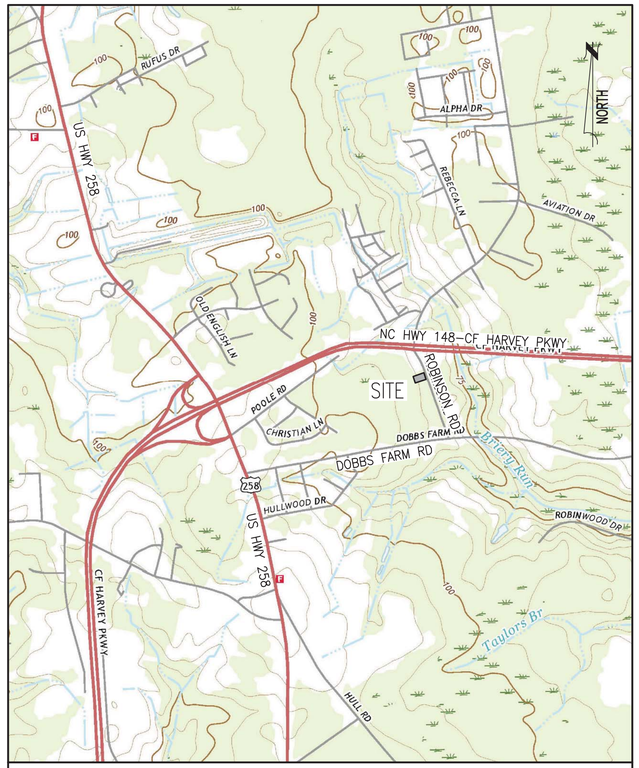
TOTAL LIMITS OF DISTURBANCE
218,131 SF, 5.01 ACRES

NOTE:
ALL FILL MATERIAL NEEDED TO EXECUTE THIS PROJECT SHALL BE OBTAINED FROM AN NCDEQ NCDEMLR PERMITTED BORROW PIT.

NOTE:
NO WETLANDS OR SURFACE WATERS EXIST WITHIN THE LIMITS OF CONSTRUCTION.

THE PROJECT DRAINS TO BRIERY RUN
SURFACE WATER CLASSIFICATION: C,Sw,NSW
STREAM INDEX: 27-81-1

THE PROJECT SITE IS NOT LOCATED IN ANY SPECIAL FLOOD HAZARD AREAS OR FUTURE CONDITIONS FLOOD HAZARD AREAS, AS SHOWN ON FEMA MAP NUMBER 3720450700K, PANEL 4507 EFFECTIVE APRIL 16, 2013.



VICINITY MAP NOT TO SCALE

A CIVIL NOTES, LEGEND AND ABBREVIATIONS
SCALE: 1" = 40'

TN
PN

WALKER the GROUP ARCHITECTURE incorporated
PO BOX 541, NEW BERN, NC 28563
252-636-6778

Digitally signed by John K Avellis
NORTH CAROLINA PROFESSIONAL SEAL 15738 ENGINEER JOHN K. AVELLIS
09-12-2025

New NC Forest Service County Office for Lenoir County

ROBINSON RD, NCSR 1574
LENOIR COUNTY, NC 28504

BID DOCUMENTS
SCO# 23-26839-01A

Revisions
No. Date

Project Number **2318.NCFS**
Date **09-12-25**
Drawn **MSP**
Checked **JKA**
Scale **AS NOTED**
Drawing Title

CIVIL NOTES, LEGEND AND ABBREVIATIONS

Sheet Number **4** of **47**
Drawing Number **C-001**

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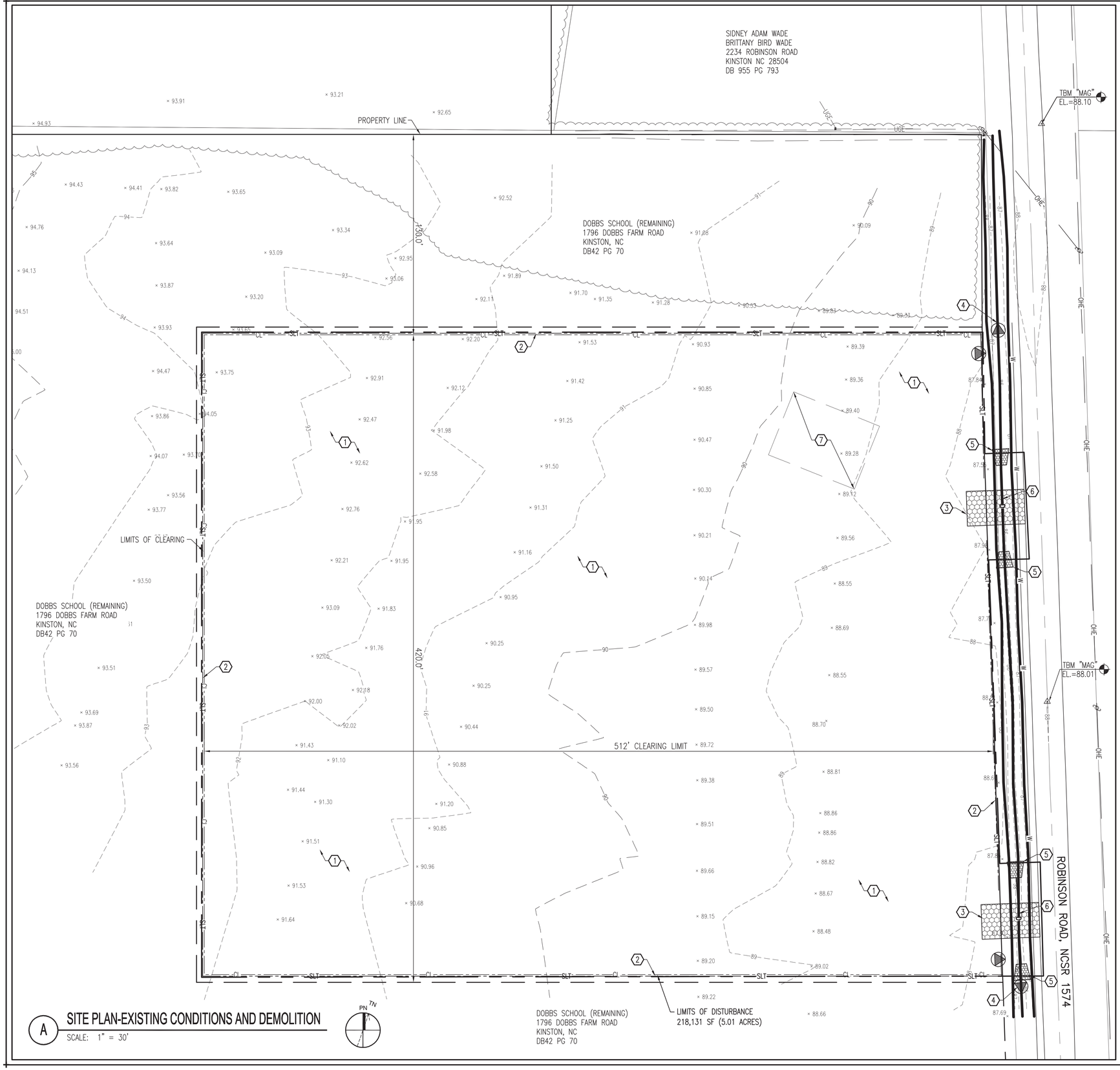
A/E PROJECT #23053



A SITE PLAN-EXISTING CONDITIONS AND DEMOLITION

SCALE: 1" = 30'

GENERAL CONSTRUCTION NOTES:

1. THE LOCATION AND DEPTHS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCANNING THE AREA OF WORK TO IDENTIFY TO HIS OWN SATISFACTION THE EXTENT OF UTILITIES PRESENT INCLUDING THE UTILITIES INDICATED TO BE PRESENT, THOSE NOT SHOWN, AND THOSE SHOWN TO BE IN A DIFFERENT LOCATION.
2. PHYSICAL SITE FEATURES OUTSIDE THE AREA OF WORK OR THOSE FEATURES NOT RELEVANT TO THE WORK BEING PERFORMED ARE NOT SHOWN FOR CLARITY.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC FLOW DURING THE COURSE OF CONSTRUCTION. THE CONTRACTOR SHALL DEVELOP A TRAFFIC CONTROL PLAN TO BE SUBMITTED TO THE PROJECT CIVIL ENGINEER FOR APPROVAL PRIOR TO STARTING CONSTRUCTION.
4. ALL EXISTING VEGETATED AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED IN ACCORDANCE WITH THE PROJECT VEGETATION PLAN, SEE DETAIL E, SHEET CG501.
5. GRADE EVENLY BETWEEN ALL SPOT ELEVATIONS SHOWN.

DEMOLITION WORK:

1. CLEAR AND GRUB TO EXTENTS SHOWN.
2. INSTALL SILT FENCE – SEE DETAIL A, SHEET CG501.
3. INSTALL GRAVEL CONTROL ENTRANCE. SEE DETAIL B, SHEET CG501.
4. INSTALL CHECK DAM. SEE DETAIL C, SHEET CG501.
5. INSTALL INLET/OUTLET PROTECTION. SEE DETAIL D, SHEET CG501.
6. INSTALL 40LF 18" RCP & (2) FLARED END SECTIONS.
7. SEPTIC DISPOSAL AREA – CLEAR AND GRUB THIS AREA IN STRICT ACCORDANCE WITH LENOIR COUNTY HEALTH DEPARTMENT REQUIREMENTS. CONTRACTOR TO MEET WITH HEALTH DEPARTMENT REPRESENTATIVE ON SITE TO DISCUSS PRIOR TO INITIATING CLEARING AND GRUBBING ACTIVITIES.

30 0 15 30 60

GRAPHIC SCALE: 1" = 30'

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WALKER the GROUP ARCHITECTURE incorporated
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09-12-2025

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Revisions

No.	Date

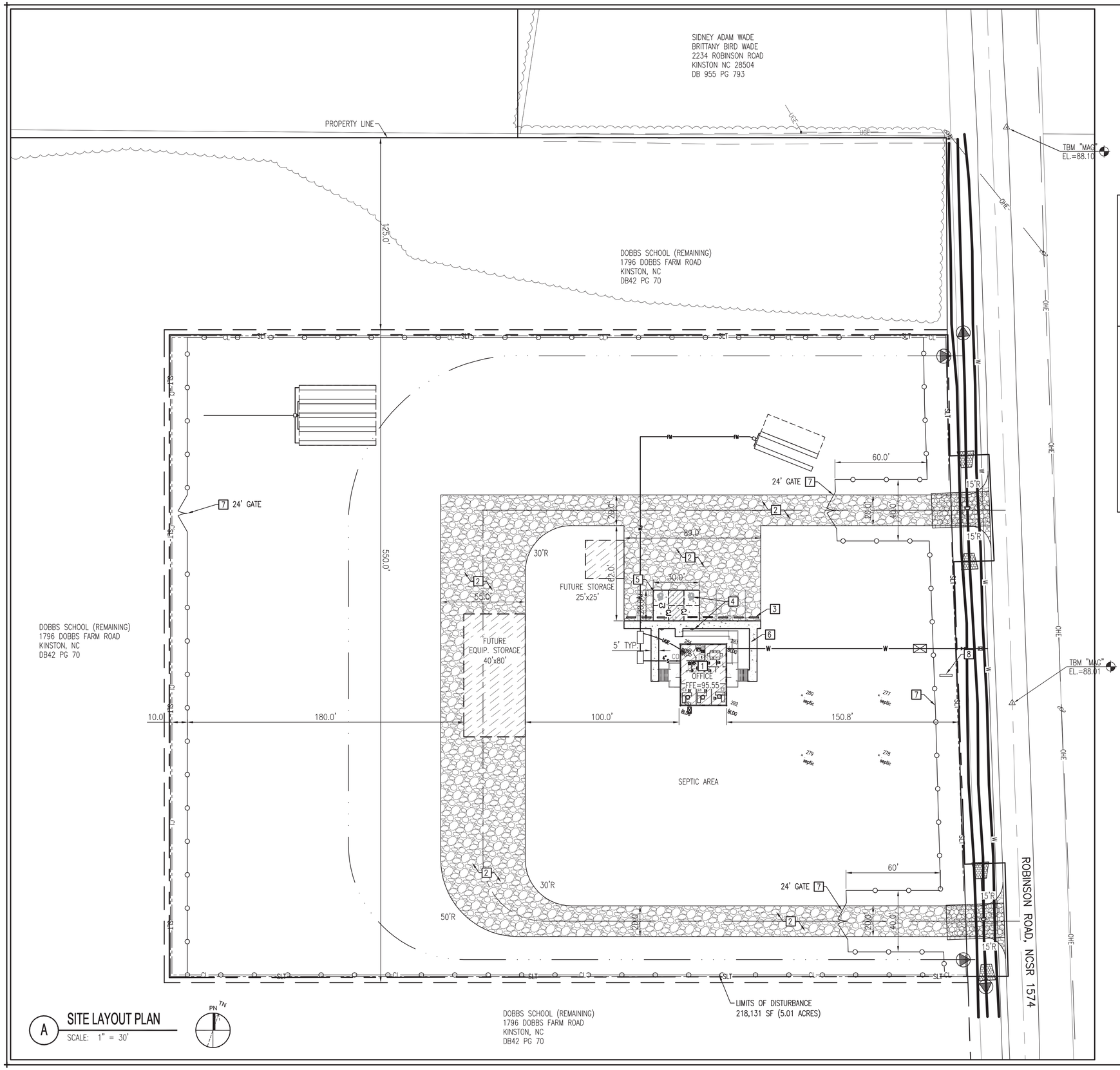
Project Number: **2318.NCFS**
Date: **09-12-25**
Drawn: **MSP**
Checked: **JKA**
Scale: **AS NOTED**

Drawing Title

Site Plan-Existing Conditons and Demolition

Sheet Number: **5** or **47**

Drawing Number: **C-100**



A SITE LAYOUT PLAN
SCALE: 1" = 30'

GENERAL CONSTRUCTION NOTES:

1. THE LOCATION AND DEPTHS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCANNING THE AREA OF WORK TO IDENTIFY TO HIS OWN SATISFACTION THE EXTENT OF UTILITIES PRESENT INCLUDING THE UTILITIES INDICATED TO BE PRESENT, THOSE NOT SHOWN, AND THOSE SHOWN TO BE IN A DIFFERENT LOCATION.
2. PHYSICAL SITE FEATURES OUTSIDE THE AREA OF WORK OR THOSE FEATURES NOT RELEVANT TO THE WORK BEING PERFORMED ARE NOT SHOWN FOR CLARITY.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC FLOW DURING THE COURSE OF CONSTRUCTION. THE CONTRACTOR SHALL DEVELOP A TRAFFIC CONTROL PLAN TO BE SUBMITTED TO THE PROJECT CIVIL ENGINEER FOR APPROVAL PRIOR TO STARTING CONSTRUCTION.
4. ALL EXISTING VEGETATED AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED IN ACCORDANCE WITH THE PROJECT VEGETATION PLAN, SEE DETAIL E, SHEET CG501.
5. GRADE EVENLY BETWEEN ALL SPOT ELEVATIONS SHOWN.

WORK ITEMS:

1. NEW BUILDING – SEE ARCHITECTURAL PLANS.
2. GRAVEL SURFACING – SEE DETAIL A, SHEET CS501.
3. CONCRETE WHEEL STOP (TYP OF 8) – SEE DETAIL B, SHEET CS501.
4. ACCESSIBLE MARKINGS AND SIGNAGE – SEE DETAIL C, SHEET CS501.
5. CONCRETE APRON – SEE DETAIL D, SHEET CS501.
6. CONCRETE SIDEWALK – SEE DETAIL F, SHEET CS501.
7. SECURITY FENCE AND GATES – SEE DETAIL A, SHEET CS502.
8. FORESTRY SIGNAGE – SEE ARCHITECTURAL PLANS.

GRAPHIC SCALE: 1" = 30'

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09-12-2025

New NC Forest Service County Office for Lenoir County

ROBINSON RD, NCSR 1574
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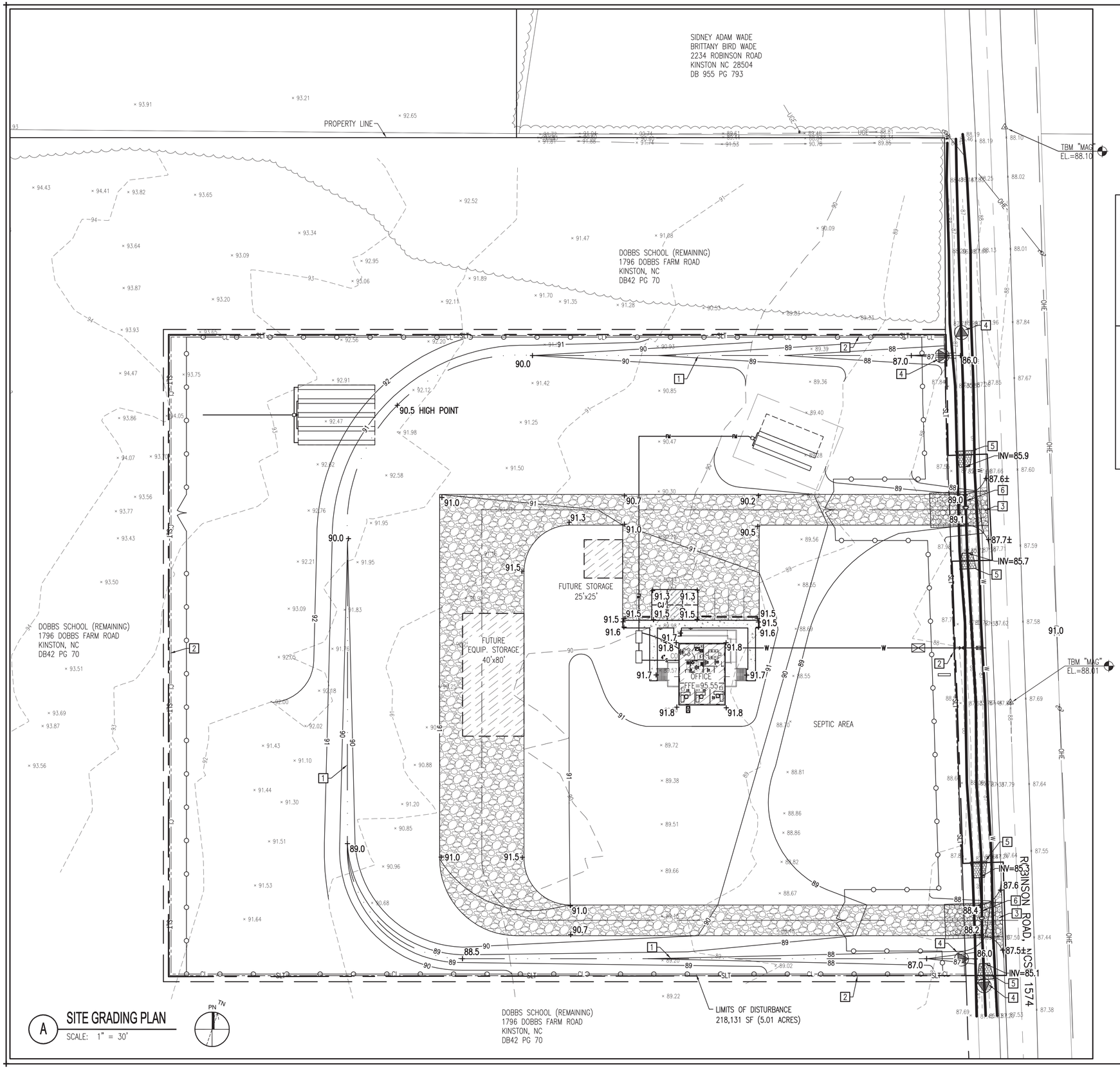
No.	Date

Project Number: **2318.NCFS**
Date: **09-12-25**
Drawn: **MSP**
Checked: **JKA**
Scale: **AS NOTED**
Drawing Title: **Site Layout Plan**

Sheet Number: **6** of **47**
Drawing Number: **C-101**



A SITE GRADING PLAN
SCALE: 1" = 30'

GRAPHIC SCALE: 1" = 30'

GENERAL CONSTRUCTION NOTES:

1. THE LOCATION AND DEPTHS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCANNING THE AREA OF WORK TO IDENTIFY TO HIS OWN SATISFACTION THE EXTENT OF UTILITIES PRESENT INCLUDING THE UTILITIES INDICATED TO BE PRESENT, THOSE NOT SHOWN, AND THOSE SHOWN TO BE IN A DIFFERENT LOCATION.
2. PHYSICAL SITE FEATURES OUTSIDE THE AREA OF WORK OR THOSE FEATURES NOT RELEVANT TO THE WORK BEING PERFORMED ARE NOT SHOWN FOR CLARITY.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC FLOW DURING THE COURSE OF CONSTRUCTION. THE CONTRACTOR SHALL DEVELOP A TRAFFIC CONTROL PLAN TO BE SUBMITTED TO THE PROJECT CIVIL ENGINEER FOR APPROVAL PRIOR TO STARTING CONSTRUCTION.
4. ALL EXISTING VEGETATED AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED IN ACCORDANCE WITH THE PROJECT VEGETATION PLAN, SEE DETAIL E, SHEET CG501.
5. GRADE EVENLY BETWEEN ALL SPOT ELEVATIONS SHOWN.

WORK ITEMS:

1. CONSTRUCT SWALE – SEE DETAIL F, SHEET CG501.
2. INSTALL SILT FENCE – SEE DETAIL A, SHEET CG501.
3. INSTALL GRAVEL CONTROL ENTRANCE. SEE DETAIL B, SHEET CG501.
4. INSTALL CHECK DAM. SEE DETAIL C, SHEET CG501.
5. INSTALL INLET/OUTLET PROTECTION. SEE DETAIL D, SHEET CG501.
6. INSTALL 40LF 18" RCP & (2) FLARED END SECTIONS.

WALKER the GROUP ARCHITECTURE incorporated
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09-12-25

Drawn
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Scale
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Drawing Title
Site Grading Plan

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LICENSE NO. C-0706
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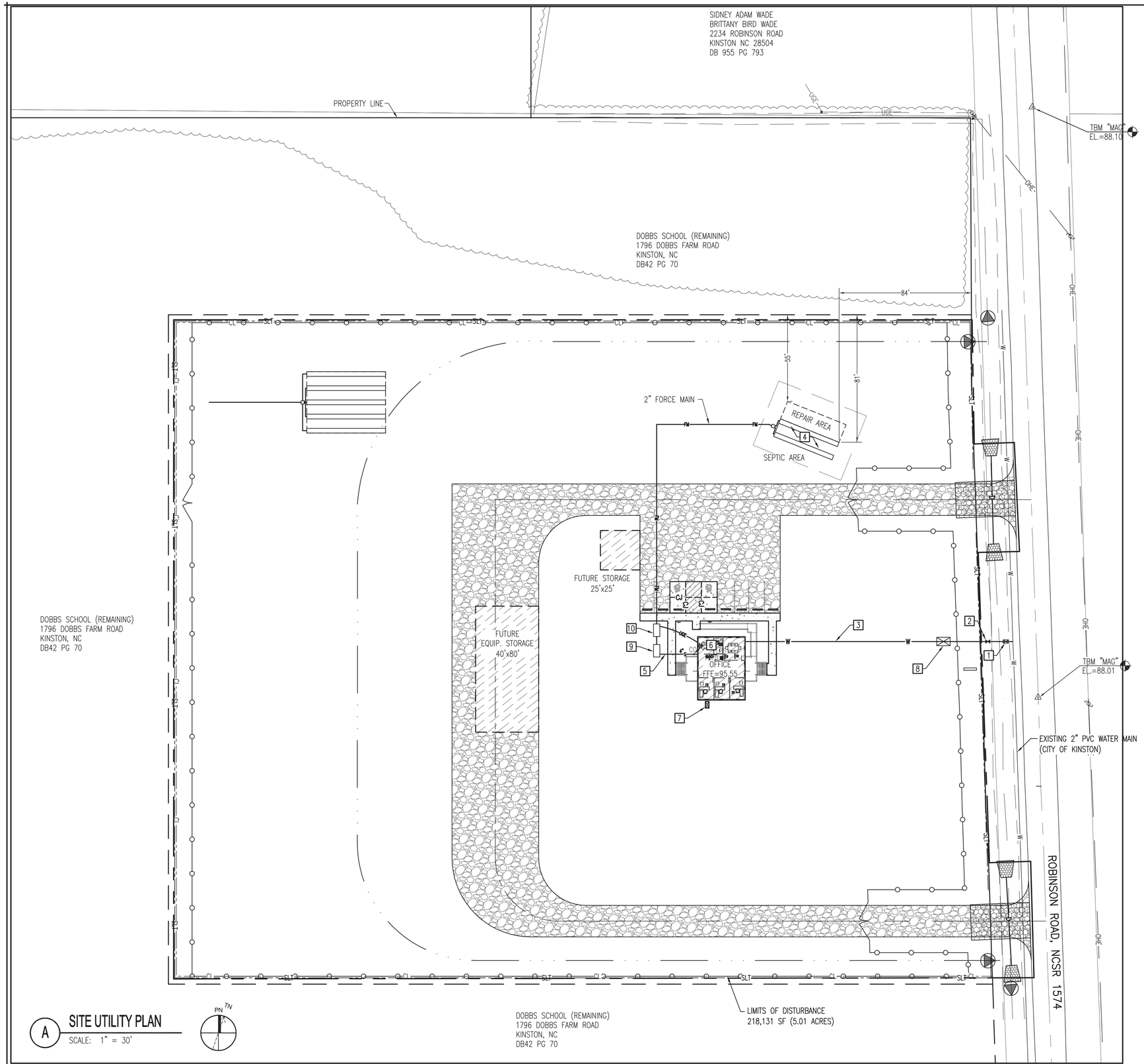
Sheet Number
7 of **47**

Drawing Number
C-102



A **SITE UTILITY PLAN**
SCALE: 1" = 30'

PN 7N

30 0 15 30 60
GRAPHIC SCALE: 1" = 30'

GENERAL CONSTRUCTION NOTES:

1. THE LOCATION AND DEPTHS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCANNING THE AREA OF WORK TO IDENTIFY TO HIS OWN SATISFACTION THE EXTENT OF UTILITIES PRESENT INCLUDING THE UTILITIES INDICATED TO BE PRESENT, THOSE NOT SHOWN, AND THOSE SHOWN TO BE IN A DIFFERENT LOCATION.
2. PHYSICAL SITE FEATURES OUTSIDE THE AREA OF WORK OR THOSE FEATURES NOT RELEVANT TO THE WORK BEING PERFORMED ARE NOT SHOWN FOR CLARITY.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC FLOW DURING THE COURSE OF CONSTRUCTION. THE CONTRACTOR SHALL DEVELOP A TRAFFIC CONTROL PLAN TO BE SUBMITTED TO THE PROJECT CIVIL ENGINEER FOR APPROVAL PRIOR TO STARTING CONSTRUCTION.
4. ALL EXISTING VEGETATED AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED IN ACCORDANCE WITH THE PROJECT VEGETATION PLAN, SEE DETAIL E, SHEET CG501.
5. GRADE EVENLY BETWEEN ALL SPOT ELEVATIONS SHOWN.

WORK ITEMS:

1. NEW 1" WATER SERVICE CONNECTION – BY CITY OF KINSTON, CONTRACTOR TO COORDINATE. SEE NOTES THIS SHEET.
2. NEW 1" VALVE – SEE DETAIL A, SHEET CU501.
3. NEW 1" PVC WATER SERVICE. PROVIDE MINIMUM 30" BURY.
4. NEW SEPTIC SYSTEM – PER LENOIR COUNTY ENVIRONMENTAL HEALTH DEPARTMENT SEPTIC PERMIT. SEE DETAIL C, SHEET CU501.
5. 4" PVC SEWER SERVICE – SEE PLUMBING PLANS FOR CONTINUATION.
6. SEWER CLEANOUT – SEE DETAIL B, SHEET CU501.
7. HVAC UNIT ON HOUSEKEEPING PAD, SEE MECHANICAL PLANS.
8. BACKFLOW PREVENTER AND ENCLOSURE, SEE DETAIL ON PLUMBING PLANS.
9. 1000 GALLON NCDEH APPROVED CONCRETE SEPTIC TANK.
10. 1000 GALLON NCDEH APPROVED CONCRETE PUMP TANK.

WATER SERVICE APPLICATION PROCESS: (TO BE COMPLETED BY CONTRACTOR)

1. CONTACT THE CITY OF KINSTON WATER DEPARTMENT, MR JIMMY GARVEY @ 252-939-3299, JIMMY.GARVEY@KINSTONNC.GOV AND REQUEST A TAP LETTER FROM THE CITY OF KINSTON.
2. UPON RECEIPT OF TAP LETTER, PAY APPLICABLE FEES FOR NEW SERVICE ($750 FOR 1-INCH TAP AND $25 SERVICE CONNECTION FEE).
3. UPON PAYMENT OF FEES, A WORK ORDER WILL BE DEVELOPED TO INITIATE SERVICE INSTALLATION BY THE WATER DEPARTMENT. THE TYPICAL TIME PERIOD FOR METER INSTALLATION IS 30-45 DAYS FROM RECEIPT OF PAYMENT.

SEPTIC SYSTEM CONSTRUCTION

1. THE SEPTIC SYSTEM SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LENOIR COUNTY HEALTH DEPARTMENT PERMIT ISSUED FOR THE PROJECT.
2. THE CONTRACTOR SHALL COORDINATE ALL SEPTIC SYSTEM CONSTRUCTION WITH THE LENOIR COUNTY HEALTH DEPARTMENT INCLUDING SCHEDULING AND ATTENDING ALL INTERMITTENT AND FINAL INSPECTIONS OF THE SEPTIC SYSTEMS.
3. POINT OF CONTACT: LUKE BAIRD
   LENOIR COUNTY HEALTH DEPARTMENT
   252-526-4248

WALKER the GROUP ARCHITECTURE incorporated
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2526366778

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09-12-2025

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Scale **AS NOTED**
Drawing Title

Site Utility Plan

Sheet Number **8** of **47**
Drawing Number **C-103**

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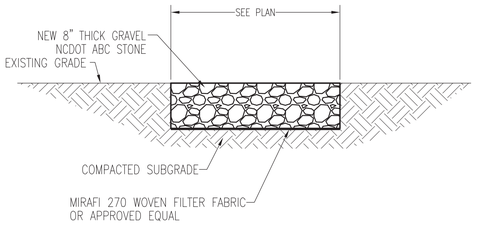
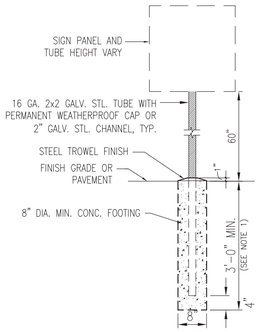
LICENSE NO. C-0706
A/E PROJECT #23053

ALL SIGNAGE TO CONFORM TO US DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009 EDITION (OR CURRENT IF NEWER).

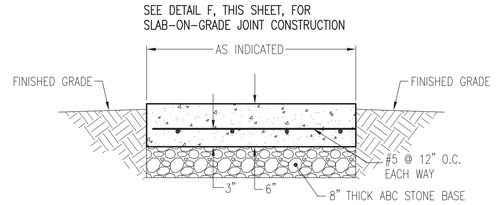


A GRAVEL SURFACING
NOT TO SCALE



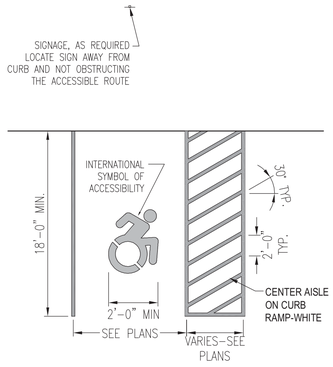
SIGN MOUNTING

PAVEMENT MARKING

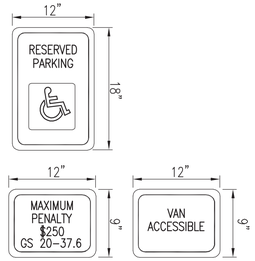


CJ = CONTRACTION JOINT, SEE DETAIL E, THIS SHEET.
EJ = EXPANSION JOINT, SEE DETAIL E, THIS SHEET.

D CONCRETE APRON
SCALE: NTS



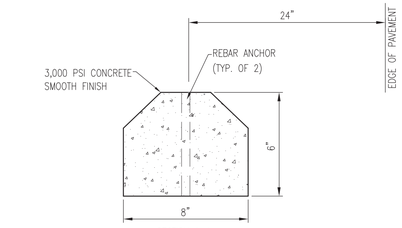
HANDICAP SPACE DESIGNATION



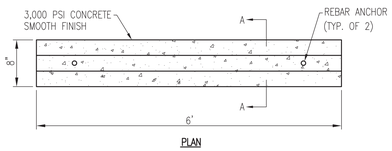
NOTES:
1. COLORS
   BACKGROUND: WHITE
   LEGEND AND BORDER: GREEN
   WHITE SYMBOL ON BLUE BACKGROUND
2. MOUNT THE SIGN 60" ABOVE GRADE.

TYPE A – HANDICAP PARKING SIGNAGE

C ACCESSIBLE MARKINGS AND SIGNAGE
NOT TO SCALE

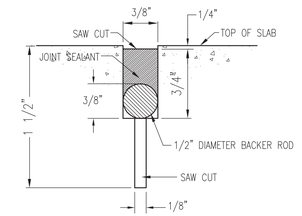


SECTION A-A

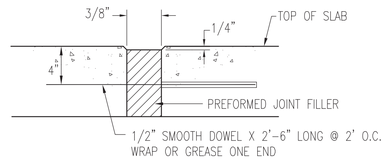


PLAN

B CONCRETE WHEEL STOP
NOT TO SCALE



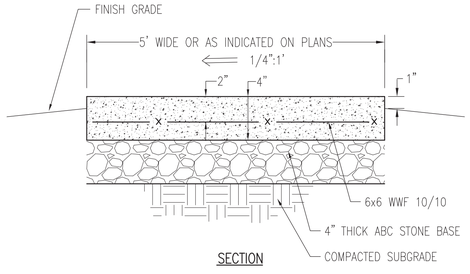
TYPICAL SLAB-ON-GRADE JOINT (CJ)



EXPANSION JOINT (EJ)

LEGEND:
CJ=CONTRACTION JOINT
EJ=EXPANSION JOINT

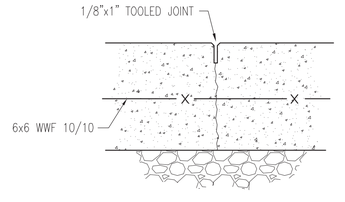
E SLAB-ON-GRADE JOINTS
NOT TO SCALE



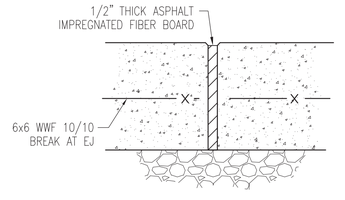
SECTION

NOTES:
1. PROVIDE EXPANSION JOINTS ALONG ALL EXISTING STRUCTURES AND WALKS AND AT 20' INTERVALS ALONG STRAIGHT SECTIONS OF WALK.
2. PROVIDE TOOLED CONTRACTION JOINTS AT 6'-0" INTERVALS AND AT ALL CHANGES IN DIRECTION OF WALK. TOOLED CONTRACTION JOINTS MUST BE 1/8" WIDE X 1" DEEP.
3. SUBGRADE MUST BE WETTED IMMEDIATELY PRIOR TO PLACING CONCRETE, OR PROVIDE POLYETHYLENE SHEETING ON GROUND SURFACE BELOW CONCRETE.
4. PROVIDE FLOATED SURFACE WITH LIGHT BROOM FINISH.
5. PROTECT WORK IN PLACE FROM VANDALISM, GRAFFITI, ETC... UNTIL CONCRETE IS SUFFICIENTLY DRY.

F CONCRETE SIDEWALK
NOT TO SCALE



CONTRACTION JOINT (CJ)



EXPANSION JOINT (EJ)

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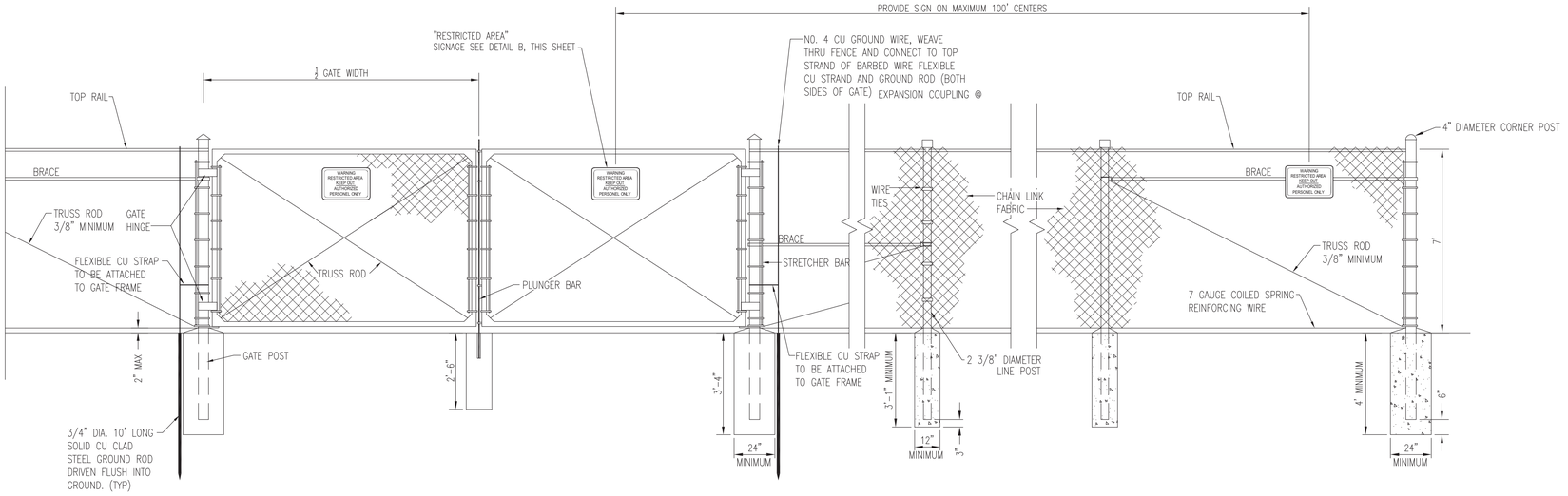
Scale **AS NOTED**
Drawing Title

DETAILS

Sheet Number **9** of **47**
Drawing Number **CS501**

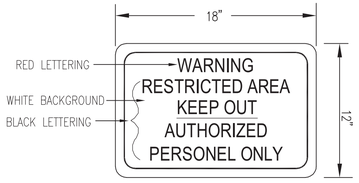


FENCE NOTES:

1. CONCRETE FOOTINGS AT CORNER, LINE AND GATE POSTS SHALL BE SIZED TO WITHSTAND LATERAL WIND LOADS ON THE FENCE SYSTEM. PROVIDE FOOTING DIMENSIONS AND SUPPORTING CALCULATIONS AS A PART OF THE SUBMITTAL PACKAGE.
2. ALL FENCE SEGMENTS SHALL HAVE AT LEAST ONE GROUNDING POINT. GROUNDING POINTS SHALL NOT EXCEED 1,000 FOOT SPACING.
3. GATES SHALL HAVE HEAVY DUTY HINGES AND LOCKING DEVICES.
4. ALL HINGES FASTENERS SHALL BE WELDED OR PEENED TO PREVENT REMOVAL.
5. CAP TOPS SHALL HAVE SET SCREWS OR RIVETS TO PREVENT REMOVAL.
6. ALL GALVANIZED AREAS DISTURBED DURING INSTALLATION SHALL BE CLEANED AND PRIMED WITH (2) COATS OF POWDERED ZINC PRIMER. ZINC-RICH COMPOUND FOR REPAIRS SHALL BE 95% METALLIC ZINC, BY WEIGHT IN DRIED FILM; INSTALL AT LEAST TWO COATS, 4 MILS MIN. TOTAL THICKNESS.

A CHAIN LINK FENCE

NOT TO SCALE



RESTRICTED AREA SIGNAGE

NOTES:

1. MOUNT SIGN ON FENCE ON EACH FACE OF FENCE AND ON EACH GATE LEAF, ALL FACING TO THE UNPROTECTED SIDE OF THE FENCE.
2. MOUNT BOTOM OF SIGN AT 60" ABOVE FINISH GRADE.
3. MOUNT SIGN VISIBLE FROM AN OUTSIDE-IN APPROACH.
4. SIGN BOARD SHALL BE ALUMINUM.

SIGN MOUNTING BRACKET

B SIGNAGE

NOT TO SCALE

WALKER the GROUP ARCHITECTURE incorporated
PO BOX 541, NEW BERN, NC 28563
2526366778

Digitally signed by John K Avellis

NORTH CAROLINA PROFESSIONAL SEAL 15738 ENGINEER JOHN K. AVELLIS

09-12-2025

New NC Forest Service County Office for Lenoir County

ROBINSON RD, NCSR 1574
LENOIR COUNTY, NC 28504

BID DOCUMENTS
SCO# 23-26839-01A

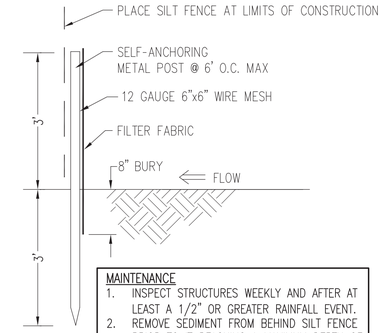
Revisions

No.	Date

Project Number **2318.NCFS**
Date **09-12-25**
Drawn **MSP**
Checked **JKA**
Scale **AS NOTED**
Drawing Title

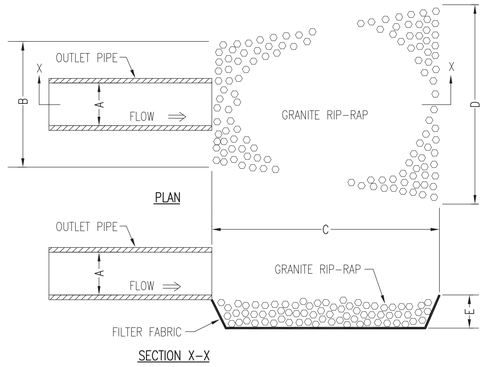
DETAILS

Sheet Number **10** Of **47**
Drawing Number **CS502**



MAINTENANCE
1. INSPECT STRUCTURES WEEKLY AND AFTER AT LEAST A 1/2" OR GREATER RAINFALL EVENT.
2. REMOVE SEDIMENT FROM BEHIND SILT FENCE PRIOR TO IT REACHING A MAXIMUM DEPTH OF SIX (6) INCHES.

A SILT FENCE
NOT TO SCALE

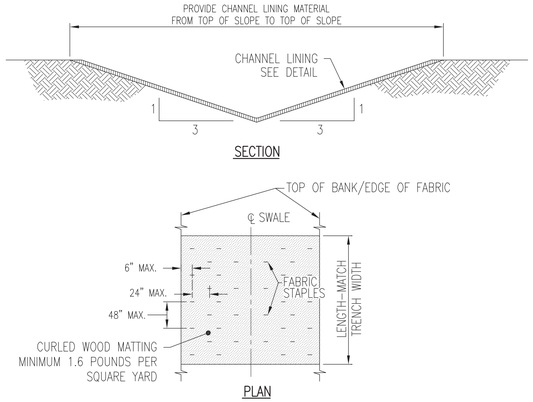


SECTION X–X

A	B	C	D	E	MIN. RIP RAP SIZE	MAX. RIP RAP SIZE
18"	6'	10'	12'	18"	6"	9"

MAINTENANCE:
1. INSPECT STRUCTURES AT LEAST WEEKLY AND AFTER ANY RAINFALL EVENT GREATER THAN ONE-HALF INCH.
2. IMMEDIATELY MAKE ALL NEEDED REPAIRS.

D INLET/OUTLET PROTECTION
NOT TO SCALE



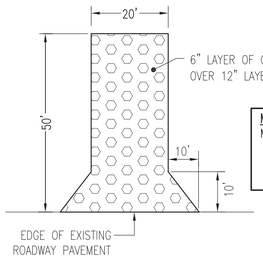
SECTION

PLAN

NOTES:
1. INSTALL MATTING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS
2. PREPARE, SEED AND FERTILIZE SWALE PRIOR TO MATTING INSTALLATION.
3. APPLY MATTING IN DIRECTION OF WATER FLOW.
4. PLACE MATTING IN CONTACT WITH SOIL.
5. BUTT ROLLS OF MATTING WITH 6" OVERLAP.
6. U-STAPLES SHOULD HAVE 6" MIN. LENGTH AND 1" MIN. CROWN.

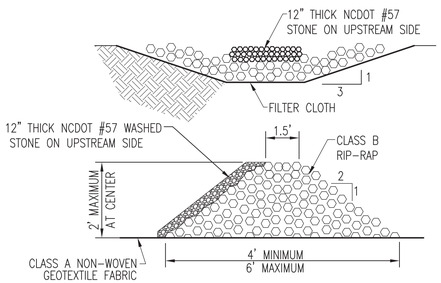
CHANNEL LINING

F LINED SWALE
NOT TO SCALE



MAINTENANCE
MAINTAIN ENTRANCE CONDITION. THIS MAY REQUIRE OF STONE.

B GRAVEL CONTROL ENTRANCE
NOT TO SCALE



MAINTENANCE
1. CONSTRUCT CHECK DAM OF RIP-RAP STONE PLACED IN ACCORDANCE WITH DETAIL.
2. SEDIMENT BEHIND THE CHECK DAM MUST BE REMOVED PRIOR TO THE LEVEL REACHING WITHIN 6" OF THE CENTERLINE CREST OF THE DAM.
3. SHOULD SCOUR DEVELOP AT THE DOWNSTREAM END, IT MUST BE REPAIRED IMMEDIATELY.

C CHECK DAM
NOT TO SCALE

TEMPORARY VEGETATIVE SEEDING
(PRIOR TO ESTABLISHING PERMANENT VEGETATION)

AFTER COMPLETION OF GRADING ACTIVITIES AND THE CONSTRUCTION OF SWALES, ALL EXPOSED AREAS SHALL BE SEEDED TO THE FOLLOWING SPECIFICATIONS:

SEED BED

LIME	1-1/2 TON PER ACRE
FERTILIZER	1/2-TON PER ACRE

SEED

RYE GRAIN	50 LBS PER ACRE
TALL FESCUE	100 LBS PER ACRE

SUPPLEMENTAL SEED

MAY THROUGH AUGUST:

CENTIPEDE	5 LBS PER ACRE

PROCEDURE

STRAW MULCH SHALL BE APPLIED AT A RATE WHICH WILL INSURE APPROXIMATELY 75% COVERAGE OF THE SEEDED AREA. THE STRAW AND SOWN SEED WILL BE LIGHTLY DISCED INTO THE BED TO GIVE IT FURTHER RESISTANCE TO BLOWING AND WASHING. THE CONTRACTOR SHALL GUARANTEE A FULL STAND OF GRASS OVER THE ENTIRE DISTURBED AREA. IF NECESSARY THE CONTRACTOR WILL WET DOWN THE AREAS TO ASSIST IN SEED GERMINATION OR AID IN GROWTH IN TIMES OF EXCESSIVELY DRY WEATHER. A STAND OF GRASS WILL BE CONSIDERED ACCEPTABLE WHEN THE ENTIRE STAND OF GRASS IS AT LEAST FOUR INCHES HIGH AND HAS ACHIEVED AT LEAST 95% COVERAGE OF DISTURBED AREAS. RESEEDING WILL BE REQUIRED AS NECESSARY BY THE CONTRACTOR TO OBTAIN THE SPECIFIED STAND OF GRASS.

PERMANENT VEGETATION

ALL DISTURBED AREAS NOT COVERED WITH BUILDINGS, PAVEMENTS, OR OTHER IMPERMEABLE SURFACES SHALL BE SODDED WITH CENTIPEDE SOLID SOD AS THE FINAL/PERMANENT VEGETATION.

REFERENCE SPECIFICATION SECTION 02 82 30 "RE-ESTABLISHING VEGETATION" FOR SPECIFIC SOD INSTALLATION AND SOD BED PREPARATION REQUIREMENTS.

SPECIAL SEEDING NOTE:

ALL DENUDED AREAS WILL, WITHIN 7 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING OR CEASING OF GRADING ACTIVITIES, BE PLANTED AND PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION.

ALL DENUDED AREAS WILL, WITHIN 7 DAYS OF COMPLETION OF CONSTRUCTION, BE PROVIDED PERMANENT GROUND COVER.

E VEGETATION PLAN
NOT TO SCALE

WALKER the GROUP ARCHITECTURE incorporated
PO BOX 541, NEW BERN, NC 28563
2526366778

Digitally signed by John K Avellis

NORTH CAROLINA REGISTERED PROFESSIONAL SEAL 15738 ENGINEER JOHN K. AVELLIS

09-12-2025

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Erosion Control Details

Sheet Number **11** or **47**

Drawing Number

CG501

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' 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

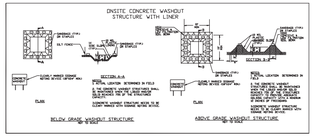
1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled, 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.



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.

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.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

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

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 or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un-attended days (and 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 of 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 a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 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 a stream 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, and 2. Records of the 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 an 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

Item to Document	Documentation 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 or if 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.

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 Timeframes (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 causes, 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.

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.

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

A EROSION CONTROL NOTES
NOT TO SCALE

NOTE:

1. THE INFORMATION CONTAINED ON THIS SHEET PERTAINS TO THE IMPLEMENTATION AND EXECUTION OF THE EROSION CONTROL REQUIREMENTS FOR THIS PROJECT.

CONTRACTOR SITE INSPECTION REQUIREMENTS:

THE NPDES CONSTRUCTION PERMIT REQUIRES EROSION CONTROL DEVICES AND STORM WATER OUTFALLS BE INSPECTED WEEKLY (EVERY 7 CALENDAR DAYS) AND WITHIN 24 HRS OF A .5 INCH RAIN EVENT. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT THESE INSPECTIONS AND MAINTAIN RECORDS UNTIL THE AREA HAS STABILIZED, EVIDENT BY 95% VEGETATIVE GROWTH FOR AREAS PROVIDED SEEDING. TO FACILITATE RAINFALL MONITORING A RAIN GAUGE IS REQUIRED TO BE ON SITE. ADDITIONALLY THE CONTRACTOR IS RESPONSIBLE FOR CONDUCTING "SELF INSPECTIONS" INDICATING THE DATE BMPS ARE INSTALLED AND STABILIZATION MEASURES (SEEDING/MULCHING OR SOD) ARE INITIATED. THE "SELF INSPECTION" REPORTS WILL BE MAINTAINED ALONG WITH THE "NPDES" INSPECTION REPORTS. ONCE STABILIZATION HAS BEEN ACCOMPLISHED INSPECTION RECORDS ARE TO BE FORWARDED TO EAD AND ALL TEMPORARY EROSION/SEDIMENTATION CONTROL DEVICES REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING COMPLIANCE WITH ALL PERMITS AND PLANS, ANY CHANGES WILL BE APPROVED BY THE STATE PRIOR TO EXECUTION. A COPY OF THE EROSION AND SEDIMENTATION CONTROL PLAN, LETTER OF APPROVAL, AND NPDES CONSTRUCTION PERMIT WILL BE MAINTAINED BY THE CONTRACTOR AT THE ONSITE OFFICE. IF SOIL IS REMOVED FROM OR BROUGHT ONSITE, THE APPLICABLE SOLID WASTE MANAGEMENT PERMIT NUMBER, EROSION SEDIMENTATION PERMIT NUMBER OR MINE PERMIT NUMBER WILL BE DISCLOSED.

EROSION CONTROL NOTES:

SCHEDULE OF EROSION AND SEDIMENTATION CONTROL ACTIVITIES

1. INSTALL SILT FENCING, GRAVEL CONTROL ENTRANCE AND CHECK DAMS AND INLET/OUTLET PROTECTION AS INDICATED.
2. COMPLETE SITE CONSTRUCTION AS INDICATED.
3. FINE GRADE SITE AS INDICATED.
4. STABILIZE AND VEGETATE ALL AREAS NOT TO BE FURTHER DISTURBED BY CONSTRUCTION ACTIVITIES PER THE VEGETATION PLAN AND STATED TIME CONSTRAINTS.
5. INSTALL SOD TO ESTABLISH FINAL VEGETATION.
6. ADDITIONAL MISCELLANEOUS EROSION CONTROL MEASURES MAY BE REQUIRED WHEN DEEMED NECESSARY BY THE CONTRACTING OFFICER OR CONTRACTOR.
7. REMOVE SILT FENCING AND CHECK DAMS ONCE VEGETATION IS 95% ESTABLISHED MINIMUM.

MAINTENANCE PLAN

1. ALL EROSION AND SEDIMENTATION CONTROL DEVICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL EVENT BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL DEVICES IN THE OPERATIONAL CONDITIONS INTENDED.
2. ALL AREAS WILL BE FERTILIZED, VEGETATED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATION PLAN IN ORDER TO ESTABLISH AND MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER. ANY SEDIMENT TRACKED ONTO THE ADJACENT ASPHALT ROAD SHALL BE REMOVED ON A DAILY BASIS.
3. SEDIMENT SHALL BE REMOVED FROM BEHIND SILT FENCING AND CHECK DAMS PRIOR TO THE SEDIMENT ACCUMULATING TO A MAXIMUM DEPTH OF SIX INCHES.

SPECIAL SEEDING NOTE:

TEMPORARY: ALL DENUDED AREAS WILL, WITHIN 7 DAYS OF STOPPING GRADING ACTIVITIES AT ANY PHASE OF CONSTRUCTION, BE PLANTED AND PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION.

PERMANENT: ALL DENUDED AREAS WILL, WITHIN 7 DAYS OF COMPLETION OF CONSTRUCTION, BE PROVIDED PERMANENT GROUND COVER.

NOTE:

1. ALL FILL MATERIAL NEEDED TO EXECUTE THIS PROJECT MUST BE OBTAINED FROM A PROPERLY PERMITTED COMMERCIAL BORROW PIT AT THE CONTRACTOR'S OWN EXPENSE.
2. NO WETLAND AREAS ARE LOCATED WITHIN THE PROJECT LIMITS OF DISTURBANCE.
3. NO SURFACE WATERS ARE LOCATED WITHIN THE LIMITS OF DISTURBANCE.

WALKER the GROUP ARCHITECTURE incorporated
PO BOX 541, NEW BERN, NC 28563
2826366778

Digitally signed by John K Avetis

NORTH CAROLINA PROFESSIONAL SEAL 15738 ENGINEER JOHN K. AVETIS

09-12-2025

New NC Forest Service County Office for Lenoir County

ROBINSON RD, NCSR 1574
LENOIR COUNTY, NC 28504

BID DOCUMENTS
SCO# 23-26839-01A

Revisions

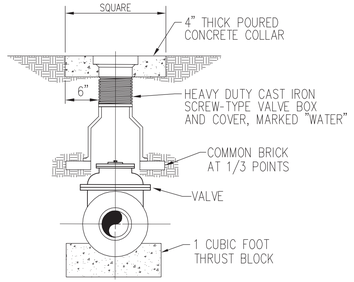
No.	Date

Project Number **2318.NCFS**
Date **09-12-25**
Drawn **MSP**
Checked **JKA**
Scale **AS NOTED**
Drawing Title

Erosion Control Notes

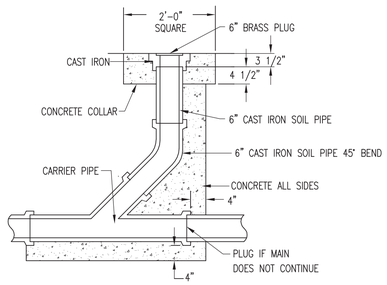
Sheet Number **12** of **47**
Drawing Number

CG502



A VALVE AND VALVE BOX

SCALE: NTS



B CLEANOUT

SCALE: NTS

CONSTRUCTION AUTHORIZATION

Lenoir County Health Department
110 S Queen St.
Kinston, NC 28501
Phone: (252) 526-4248

For Office Use Only
CDP File Number: 418985 - 1
PIN Number:
Evaluated for: NEW
PERMIT VALID UNTIL: 02/25/2030

Applicant:	NCDA- North Carolina Forest Service	Property Owner:	Dobbs School (State of North Carolina)
Address:	1001 Mail Service Center	Address:	1321 Mail Service Center
City:	Raleigh	City:	Raleigh
State/ZIP:	NC 27699	State/ZIP:	NC 27699
Phone #:		Phone #:	

Property Location & Site Information

Address:	2208 Robinson Road
Road #:	Kinston, NC 28504
Township:	
Structure:	OTHER
# of Bedrooms:	
# of People:	
Water Supply:	PUBLIC

Subdivision: Phase: Lot:

Directions: 1796 Dobbs Farm Road, Kinston NC 28504

System Specifications

Usable Soil Depth:	24	Minimum Trench Depth:	Inches
Saprolite System:	No	Maximum Trench Depth:	12 Inches
Design Flow:	120	Minimum Soil Cover:	6 Inches "natural Ground Level"
Soil Application Rate:	.5	Maximum Soil Cover:	Inches "natural Ground Level"
System Classification/Description:		Distribution Type:	PRESSURE MANIFOLD
TYPE III B. SYSTEM W/SINGLE EFFLUENT PUMP		Septic Tank:	1000 Gallons
Proposed System:	CONVENTIONAL	Pump Required:	Yes
Nitrification Field:	240 Sq. Ft.	Pump Tank:	1000 Gallons
No. Drain Lines:	2	Grease Trap:	Gallons
Total Trench Length:	40 ft	Septic Tank Installer Grade Level Required:	
Trench Spacing:	9Feet O.C.		
Trench Width:	3Feet		
Aggregate Depth:	12 inches		

The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements.

Permit Conditions: System area and repair area shall be protected from vehicular traffic.

This Authorization for Wastewater System Construction shall be valid for a person equal to the period of validity of the Improvement Permit, not to exceed five years, and may be issued at the same time the Improvement Permit issued (NCGS 130A-336(b)). If the installation has not been completed during the period of validity of the Construction Permit, the information submitted in the application for a permit or Construction Authorization is found to have been incorrect, falsified or changed, or the site is altered, the permit or Construction Authorization shall become invalid, and may be suspended or revoked (per rule .0204(b)(1)). The person owning or controlling the system shall be responsible for assuring compliance with the laws, rules, and permit conditions regarding system location, installation, operation, maintenance, monitoring, reporting and repair (per rule .0301(a)).

Authorized State Agent: 2500 - Baird, Luke
Authorized State Agent Signature: L. Baird, REHS
Date of Issue: 02/25/2025
Owner/Applicant Signature:

Page 1 of 1

IMPROVEMENT PERMIT

Lenoir County Health Department
110 S Queen St.
Kinston, NC 28501
Phone: (252) 526-4248

For Office Use Only
CDP File Number: 418985 - 1
County ID Number:
Evaluated for: NEW
PERMIT VALID UNTIL: 02/25/2030

*NOTE TO INSPECTIONS DIVISION: Building Permits cannot be issued with only an Improvement Permit.

Applicant:	NCDA- North Carolina Forest Service	Property Owner:	Dobbs School (State of North Carolina)
Address:	1001 Mail Service Center	Address:	1321 Mail Service Center
City:	Raleigh	City:	Raleigh
State/Zip:	NC 27699	State/Zip:	NC 27699
Phone #:		Phone #:	

Property Location & Site Information

Address:	2208 Robinson Road
	Kinston, NC 28504
Road #:	
Township:	
Structure:	OTHER
# of Bedrooms:	# of People:
Water Supply:	PUBLIC

Subdivision: Block/Phase: Lot:

Directions: 1796 Dobbs Farm Road, Kinston NC 28504

Initial System		System Specifications		
Usable Soil Depth:	24	Minimum Trench Depth:		Inches
Saprolite System?:	No	Maximum Trench Depth:	12	Inches
Design Flow:	120	Fill Depth:		Inches
Soil Group:	II	Septic Tank:	1000	Gallons
Soil Application Rate:	.5	Pump Required:	Yes	
System Classification/Description:		Pump Tank:	1000	Gallons
TYPE III B. SYSTEM W/SINGLE EFFLUENT PUMP		Proposed System:	CONVENTIONAL	
Repair System Required:	Yes			

Repair System:				
Usable Soil Depth:	24	Minimum Trench Depth		Inches
Soil Application Rate:	.5	Maximum Trench Depth:	12	Inches
System Classification/Description:		Fill Depth:		Inches
TYPE III B. SYSTEM W/SINGLE EFFLUENT PUMP		Pump Required:	Yes	
Proposed System:	CONVENTIONAL	Pump Tank:		Gallons

No grading or construction activity is allowed in areas designated for system and repair without approval of Health Department.

Site Modifications

The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements.

Permit Conditions: System area and repair area shall be protected from vehicular traffic.

The Department and Local Health Department may impose conditions on the issuance and may revoke the permits for failure of the system to satisfy the conditions, the rules, or this article. This permit is subject to revocation if the site plan, plat, or intended use changes (NCGS 130A-335 (f)). The person owning or controlling the system shall be responsible for assuring compliance with the laws, rules, and permit conditions regarding system location, installation, operation, maintenance, monitoring, reporting, and repair (per rule .0301(a)).

Authorized State Agent: 2500 - Baird, Luke
Authorized State Agent Signature: L. Baird, REHS
Date of Issue: 02/25/2025
Owner/Applicant Signature:

Page 1 of 1

C SEPTIC SYSTEM PERMIT

SCALE: NTS

Lenoir County Health Department
110 S Queen St.
Pump Manifold System

Applicant: NCDA- North Carolina Forest Service File #: 418985 - 1

Location: 2208 Robinson Road Date: 02/25/2025
Kinston, NC 28504

PUMP MANIFOLD SYSTEM REQUIREMENTS

The pressure manifold pump system permitted for this site shall consist of the following:

1000 gallon capacity septic tank
1000 gallon capacity pump tank

- A water tight riser to extend a minimum of 6 inches above finished ground surface, covered with a water tight lid to afford easy access to the pump and fittings.

Force Main (supply line):

- Schedule 40 2 inch diameter, approximately 126 linear feet.

Manifold:

- Schedule 40 3 inch diameter, 12 linear feet in length, with a turnup at the ends high enough to adjust the pressure head of the system.

Lateral Connections:

- Schedule 40 .5 inch diameter, with a .5 inch diameter orifice. The lateral connections shall provide a two foot separation between the manifold and the beginning of the trench.

System Requirements:

- The system shall consist of 2 nitrification trenches 40 feet in length each, installed

12 inches below the natural ground surface or below top of required fill on permit.

Pump Requirements:

- A UL listed or equivalent submersible effluent pump capable of handling at least one-half inch solids and designed to meet the discharge rate of 17.42 gpm and a total dynamic head(TDH) of 14.4 feet.
- The drawdown of the system shall be 3 inches and the pump run time shall be 2 minutes.
- Sealed mercury control floats to regulate pump cycles and high water alarm. The floats shall be attached to a "float tree" which is separate from the pressure piping inside the tank, and is removable to facilitate maintenance of the system.
- The alarm system shall be audible and visible to the system user and in a weatherproof enclosure if installed outdoors (NEMA 4X panel) . The alarm and the pump shall be wired on separate electrical circuits. For systems with only one pump, a minimum of two separate circuits shall be provided to the control panel. The panel shall also allow for manual operation of the pump and a method to test the alarm.
- Electrical connections and components for pump shall be inspected by the County Building Inspections Department prior to final approval of installation. Contact the building inspections to ensure proper elevation of electrical components.
- Electrical power must be provided to the pump at the time of inspection in order to check proper functioning of the system prior to the issuance of an operation permit
- The control panel must also be equipped with an elapsed time meter and an event counter.

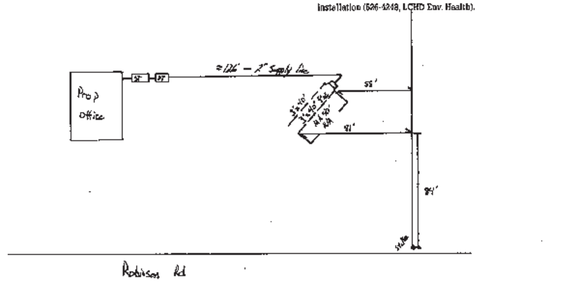
Addendum to Permit # 418985
Page 3 of 3

Plot Plan

Owner: NCDA-NC Forestry Service
Address: 2208 Robinson Road
Location: Just before 2234 Robinson Rd

ADDITIONAL PERMIT CONDITIONS:

1) Do not park or drive on adj part of system or repair area.
2) Nitrification trench aggregate shall be covered with straw or other approved materials prior to final cover/backfilling.
3) Do not install system under wet conditions.
4) Tank Location shall be altered to accommodate system/home/etc..
5) Raise sidewalls/trench bottoms as needed.
6) ≥ 6" soil cover (Grpll) over entire system and 5' beyond
7) In order to achieve "Gravity Flow," plumbing shall accommodate the septic system, otherwise, a Pump System shall be required.
8) Water lines shall be located ≥ 10' from system or repair area.
9) Septic systems shall be ≥ 10' from any proposed or existing property lines, unless otherwise stated.
10) House location/foundations shall have a 5' minimum setback from septic system/repair area.
11) Adhere to minimum set back requirements/requests as stated under GS 130A-ART 11 of NC Laws and Rules for Sewage Treatment and Disposal Systems..
12) Any Questions/changes on system/location, call LCHD prior to installation (526-4248, LCHD Env. Health).



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PO BOX 541, NEW BERN, NC 28563
2626366778

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NORTH CAROLINA PROFESSIONAL SEAL 15738 ENGINEER JOHN K. AVOLIS
09-12-2025

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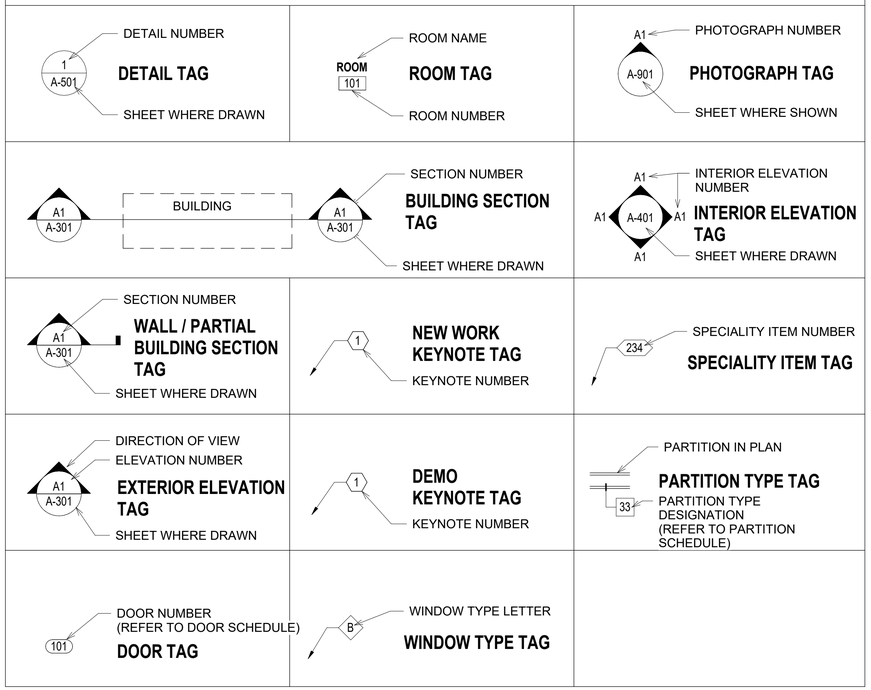
Drawing Title:

UTILITY DETAILS

Sheet Number: 13 of 47
Drawing Number: CU501

ARCHITECTURAL SYMBOLS



MATERIALS LEGEND

SECTION		ELEVATION	
	WOOD - ROUGH		EIFS - PAINTED
	WOOD BLOCKING		CMU - PAINTED
	PLYWOOD		CMU - PAINTED - ACCENT
	CONCRETE MASONRY UNIT		GLAZED BLOCK
	BRICK		GLAZING
	CAST-IN-PLACE CONCRETE		SPANDREL GLAZING / STEEL PANEL
	STEEL		CONCRETE FOUNDATION
	ALUMINUM		
	GYPSUM BOARD		
	BATT/LOOSE FILL INSULATION		
	RIGID INSULATION		
	SAND / MORTAR / PLASTER		
	EARTH / COMPACT FILL		
	POROUS FILL / GRAVEL		
	ACOUSTICAL TILE CEILING		
	CERAMIC TILE		
	FINISHED WOOD		

ARCHITECTURAL ABBREVIATIONS

AB	ANCHOR BOLT
ACS PNL	ACCESS PANEL
ADJ	ADJUST
ALT	ALTERNATE, ALTITUDE
ALUM	ALUMINUM
ANOD	ANODIZED
APPROX	APPROXIMATE
ARCH	ARCHITECT
ASPH	ASPHALT
ATC	ACOUSTICAL TILE CEILING
BD	BOARD
BLDG	BUILDING
BLW	BELOW
BM	BEAM
BOS	BOTTOM OF SLAB / STEEL
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT
BTWN	BETWEEN
C TO C	CENTER TO CENTER
CAB	CABINET
CEM	CEMENT
CER	CERAMIC
CI	CAST IRON
CIP	CAST IRON PIPE
CJ	CONTROL / CONSTRUCTION JOINT
CLG	CEILING
CLG REG	CEILING REGISTER
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CND	CONDUIT
CNDS	CONDENSATE
CNSTR	CONSTRUCTION
CNTR	CNTR
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECT
CONT	CONTINUE / CONTINUOUS
CORR	CORRIDOR
CPT	CARPET / COMMON PATH OF TRAVEL
CT	CERAMIC TILE
CTR	CENTER
D	DEPTH / DEEP
DEG	DEGREE
DEMO	DEMOLITION
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DR	DRAIN
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING
E	EAST
EA	EACH
EIFS	EXTERIOR INSULATION & FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC / ELECTRICAL
EPDM	ETHLENE PROPYLENE DIEN MONOMER
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION / EXPOSED / EXPAND
EXT	EXTERIOR
FD	FLOOR DRAIN
FDTN	FOUNDATION
FF	FINISH FACE
FG	FIGURE
FHC	FIRE HOUSE CABINET
FIN FLR	FINISHED FLOOR
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUB / FACE OF SLAB
FR	FRAME / FIRE RATING / FIRE RESISTANT
FT	FOOT, FEET
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GFCI	GOVERNMENT FURNISHED CONTRACTOR INSTALLED
GL	GLASS / GROUND LEVEL
GR	GROSS
GSU	GLAZED STRUCTURAL UNIT
GYP	GYPSUM
H	HIGH
HB	HOSE BIB
HDW	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HT	HEIGHT
HVY	HEAVY
ID	INSIDE DIAMETER
INSUL	INSULATION / INSULATED
INT	INTERIOR
J-BOX	JUNCTION BOX
JAN	JANITOR CLOSET
LAV	LAVATORY
LB	POUND
LT	LIGHT
MACH	MACHINE
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MFG	MANUFACTURING
MIN	MINIMUM / MINUTE
MISC	MISCELLANEOUS
ML	MATCH LINE
MO	MASONRY OPENING / MOTOR OPERATED
MTD	MOUNTED
MTG	MOUNTING / MEETING
MTL	METAL
MWP	MEMBRANE WATERPROOFING
N	NORTH
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
SF	SQUARE FOOT
SH	SHINGLES / SINGLE HUNG
SIM	SIMILAR
SPC	SUSPENDED PLASTER CEILING
SPEC	SPECIFICATION
SQ	SQUARE
STD	STANDARD
STOR	STORAGE
STR	STRAIGHT STRIKE / STRINGERS
SUSP	SUSPENDED
T&B	TOP AND BOTTOM
TEL	TELEPHONE
THRES	THRESHOLD
THRU	THROUGH
TOS	TOP OF SLAB / STEEL
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLT
VAR	VARIATION
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VENT	VENTILATION / VENTILATOR
VERT	VERTICAL
VEST	VESTIBULE
VS	VENT STACK
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W	WASTE / WATT / WEST / WIDE
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET / WALL COVERING
WD	WOOD
WH	WATER HEATER
WP	WATERPROOFING / WEATHERPROOF / WORKING POINT
WSCT	WAINSCOT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
XRMR	TRANSFORMER

GENERAL SHEET NOTES

1. ALL MATERIALS MUST BE NEW AND PROVIDED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED AS EXISTING OR AS PROVIDED BY THE OWNER.
2. ALL WOOD BLOCKING AND MISCELLANEOUS STEEL SHOWN IN DETAILS AND SECTIONS MUST BE CONTINUOUS UNLESS SPECIFICALLY NOTED OTHERWISE.
3. VERIFY ALL FIELD CONDITIONS AND DIMENSIONS PRIOR TO PROCEEDING WITH THE WORK. ALL DISCREPANCIES MUST BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT IN WRITING.
4. DIMENSIONS INDICATED FOR NEW WORK ARE TO FACE OF STUD, FACE OF MASONRY OR FACE OF EXISTING SURFACES UNLESS OTHERWISE NOTED.
5. STUDY AND COMPARE THE CONTRACT DOCUMENTS WITH EACH OTHER, AND AT ONCE, REPORT TO THE ARCHITECT ANY ERRORS AND INCONSISTENCIES OR OMISSIONS DISCOVERED. ANY CONSTRUCTION ACTIVITY PERFORMED KNOWING IT INVOLVES A RECOGNIZED ERROR, INCONSISTENCY OR OMISSION IN THE CONTRACT DOCUMENTS WITHOUT SUCH NOTICE TO THE ARCHITECT, THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR SUCH PERFORMANCE AND WILL BEAR THE AMOUNT OF THE COST OF THE CONSTRUCTION.

WALKER the GROUP ARCHITECTURE
incorporated
PO BOX 541, NEW BERN, NC 28563
252-636-8778

Christopher B. Walker
REGISTERED
SEAL
15616
09/12/25
ARCHITECT
NORTH CAROLINA

New NC Forest Service County Office for Lenior County

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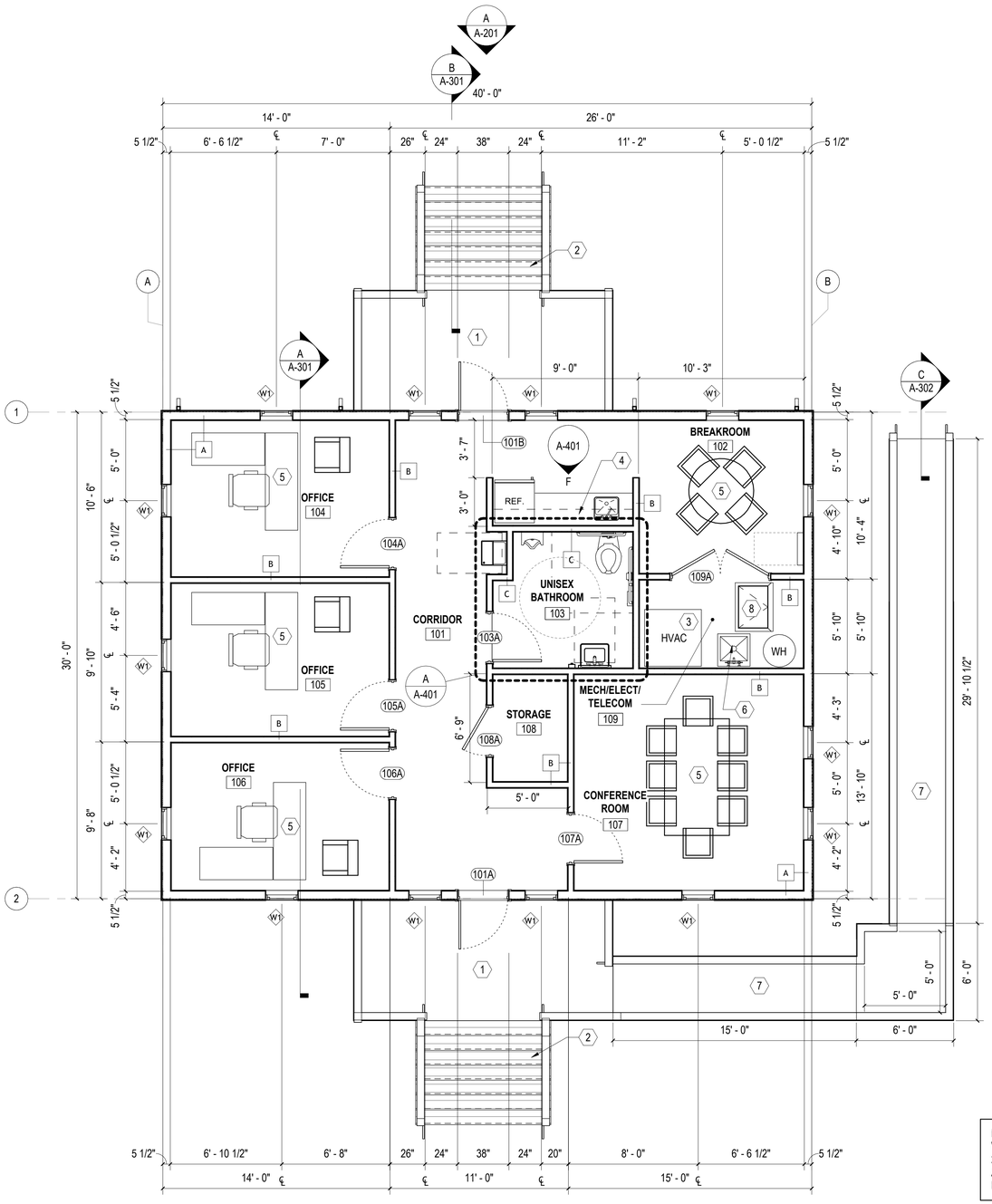


NOTE:
WOOD RAMP AND STAIRS MUST MEET ICC A117.1 2009 REQUIRMENTS. CONTRACTOR TO FACTOR APPROXIMATELY 1'-0" OF ELEVATION DIFFERENCE BETWEEN DRAWINGS AND FIELD CONDITIONS.

FLOOR PLAN

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

PLAN NORTH

GENERAL SHEET NOTES

1. SEE CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL NOTES.
2. SEE SCHEDULES FOR WALL TYPES, DOOR/FRAME/WINDOW TYPES AND SIZES, AND FLOOR/WALL/CEILING FINISHES.

NEW WORK KEYNOTES

MARK	DESCRIPTION
1	COMPOSITE DECKING OVER P.T. 2x10 WOOD JOISTS AT 16" O.C., SEE SHEET A-104 AND DETAIL B/A-301 FOR ADDITIONAL NOTES.
2	PRESSURE TREATED WOOD FRAMED STAIRS WITH COMPOSITE DECKING. DECK CONSTRUCTION BASED ON 100 PSF LIVE LOAD MINIMUM. SEE DETAIL B/A-301.
3	HVAC UNIT, SEE MECHANICAL.
4	WOOD CASEWORK WITH SOLID SURFACE COUNTERTOP AND BACKSPLASH. SEE DETAIL A/A-501.
5	FURNITURE BY OWNER.
6	FLOOR MOUNTED MOP SINK, SEE PLUMBING.
7	PRESSURE TREATED WOOD FRAMED RAMP WITH COMPOSITE DECKING. DECK CONSTRUCTION BASED ON 100 PSF LIVE LOAD MINIMUM. SEE A-104 FOR MORE INFORMATION.
8	CRAWL SPACE ACCESS DOOR. 2'-6" x 2'-6". SEE STRUCTURAL, SEE DETAIL D/A-501.

FINISH SCHEDULE

NUMBER	NAME	FLOOR	BASE	WALLS	CEILING	COMMENTS
101	CORRIDOR	LVT	1X4 WD	GYP.BD. PAINT	GYP.BD. PAINT	-
102	BREAKROOM	LVT	1X4 WD	GYP.BD. PAINT	GYP.BD. PAINT	-
103	UNISEX BATHROOM	TILE	TILE	GYP.BD/ W.TILE	GYP.BD. PAINT	SEE WALL TYPE C
104	OFFICE	LVT	1X4 WD	GYP.BD. PAINT	GYP.BD. PAINT	-
105	OFFICE	LVT	1X4 WD	GYP.BD. PAINT	GYP.BD. PAINT	-
106	OFFICE	LVT	1X4 WD	GYP.BD. PAINT	GYP.BD. PAINT	-
107	CONFERENCE ROOM	LVT	1X4 WD	GYP.BD. PAINT	GYP.BD. PAINT	-
108	STORAGE	LVT	1X4 WD	GYP.BD. PAINT	GYP.BD. PAINT	-
109	MECH/ELECT/ TELECOM	LVT	1X4 WD	GYP.BD. PAINT	GYP.BD. PAINT	-

TILE - PORCELAIN TILE
W.TILE - PORCELAIN WALL TILE WITH METAL EDGE TRIM. 5' HEIGHT, PAINTED GYPSUM BOARD ABOVE.
LVT - LUXURY VINYL TILE FLOORING
GYP.BD - GYPSUM BOARD
WD - PAINTED WOOD BASE

WALL TYPES LEGEND

MARK	NOTES
A	FIBER CEMENT LAP SIDING, VAPOR BARRIER, 1/2" CDX SHEATHING, 2x6 WOOD STUDS @ 16" O.C., R-20 FIBERGLASS BATT INSULATION, 5/8" GYPSUM BOARD. TAPE, TEXTURE, AND PAINT.
B	2x4 STUD AT 16" O.C. WITH 5/8" GYPSUM BOARD EACH SIDE. TYPICAL FOR INTERIOR WALLS. TAPE, TEXTURE AND PAINT.
C	2x4 STUD AT 16" O.C. WITH 5/8" GYPSUM BOARD ON ONE SIDE. 5/8" CEMENT BOARD AND PORCELAIN WALL TILE WITH METAL EDGE TRIM AT 5'-0" A.F.F., PAINTED GYPSUM BOARD ABOVE. TAPE, TEXTURE, AND PAINT.

GRAPHIC SCALE(S)

1/4" =1'-0" 0' 2' 4' 8'

WALKER the GROUP ARCHITECTURE incorporated
PO BOX 541, NEW BERN, NC 28563
252-636-8778

Christopher B. Walker REGISTERED SEAL 15616 09/12/25 ARCHITECT NORTH CAROLINA

New NC Forest Service County Office for Lenior County

Robinson Rd, NCSR 1574
Lenior County, NC 28504

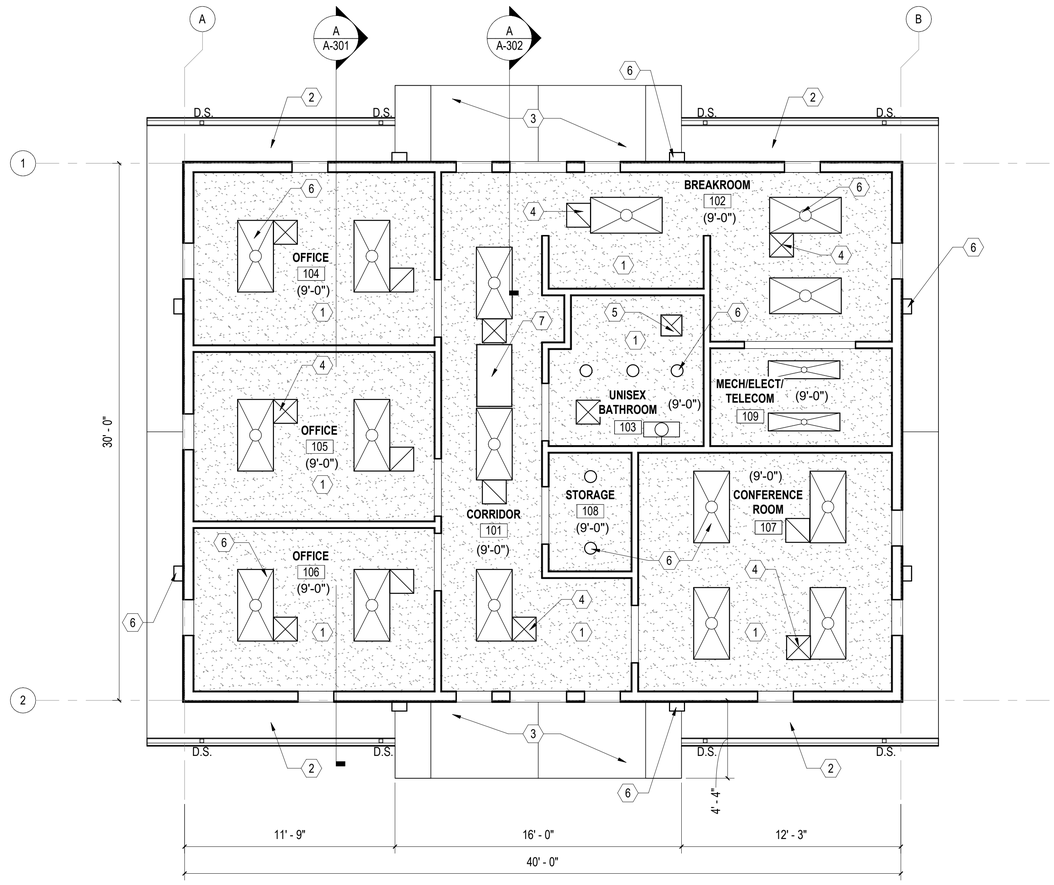
Bid Documents
SCO# 23-26839-01A

Revisions
No. Date

Project Number 2318.NCFS
Date 09/12/25
Drawn Author
Checked Checker
Scale AS NOTED
Drawing Title

FLOOR PLAN

Sheet Number 15 Of 47
Drawing Number A-101



REFLECTED CEILING PLAN

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

PLAN NORTH

GENERAL SHEET NOTES

1. SEE CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL NOTES.
2. SEE SCHEDULES FOR WALL TYPES, DOOR/FRAME/WINDOW TYPES AND SIZES, AND FLOOR/WALL/CEILING FINISHES.

(#) NEW WORK KEYNOTES

MARK	DESCRIPTION
1	1/2" GYPSUM BOARD CEILING ATTACHED TO BOTTOM OF WOOD TRUSSES. FINISH AND PAINT. GYPSUM BOARD IS TYPICAL THROUGHOUT BUILDING.
2	VENTED FIBER CEMENT SOFFIT. SEE WALL SECTION B/A-302.
3	FIBER CEMENT SOFFIT AND TRIM ATTACHED TO UNDERSIDE OF ROOF TRUSSES.
4	HVAC DIFFUSER, SEE MECHANICAL FOR ADDITIONAL NOTES. SEE CEILING LEGEND.
5	EXHAUST FAN, SEE MECHANICAL FOR ADDITIONAL NOTES. SEE CEILING LEGEND.
6	LIGHT FIXTURE, SEE ELECTRICAL FOR ADDITIONAL NOTES. SEE CEILING LEGEND.
7	PULL DOWN ATTIC ACCESS WITH LADDER, INSTALL PER MANUFACTURERS INSTRUCTIONS, SEE DETAIL C/A-501.

REFLECTED CEILING PLAN LEGEND

SYMBOL	DESCRIPTION
	GYPSUM BOARD CEILING.
	LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.
	CEILING DIFFUSER. REFER TO MECHANICAL DRAWINGS.
	CEILING EXHAUST. REFER TO MECHANICAL DRAWINGS.
(X'-X")	FINISHED CEILING HEIGHT ABOVE FINISHED FLOOR.

GRAPHIC SCALE(S)

1/4" =1'-0" 0' 2' 4' 8'

WALKER the GROUP ARCHITECTURE incorporated
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252-636-8778

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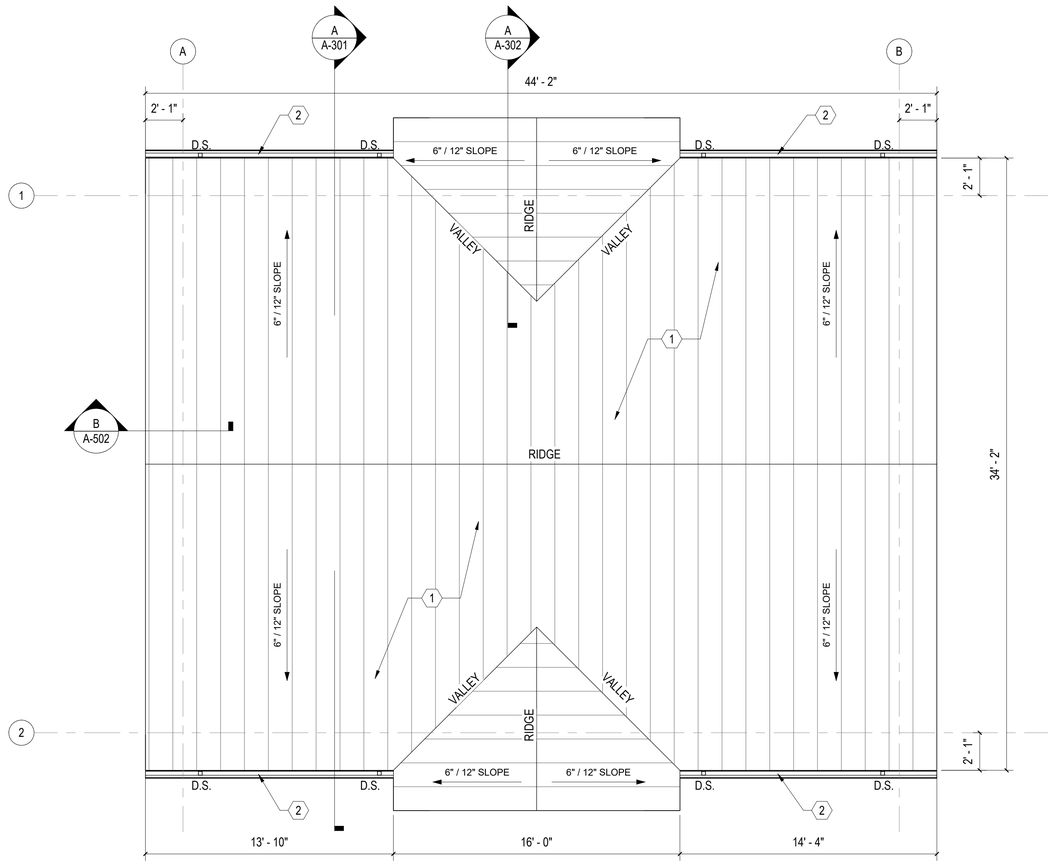
No.	Date

Project Number: 2318.NCFS
Date: 09/12/25
Drawn: Author
Checked: Checker
Scale: AS NOTED
Drawing Title: REFLECTED CEILING PLAN

Sheet Number: 16 Of 47
Drawing Number: A-102



ROOF PLAN

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

PLAN NORTH

GENERAL SHEET NOTES

1. SEE CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL NOTES.
2. SEE SCHEDULES FOR WALL TYPES, DOOR/FRAME/WINDOW TYPES AND SIZES, AND FLOOR/WALL/CEILING FINISHES.

(#) NEW WORK KEYNOTES

MARK	DESCRIPTION
1	PROVIDE STANDING SEAM METAL ROOF OVER VAPOR BARRIER, 1/2" PLYWOOD SHEATHING AND ROOF TRUSSES. SEE STRUCTURAL.
2	5" ALUMINUM GUTTER WITH 4"x4" DOWNSPOUTS. DOWNSPOUTS ARE INDICATED ON ROOF PLAN AS (D.S.). INSTALL PER MANUFACTURERS INSTRUCTIONS. PROVIDE CONCRETE SPLASH BLOCKS AT DOWNSPOUTS.

GRAPHIC SCALE(S)

1/4" =1'-0" 0' 2' 4' 8'

WALKER the GROUP ARCHITECTURE incorporated
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252-636-8778

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Project Number 2318.NCFS
Date 09/12/25
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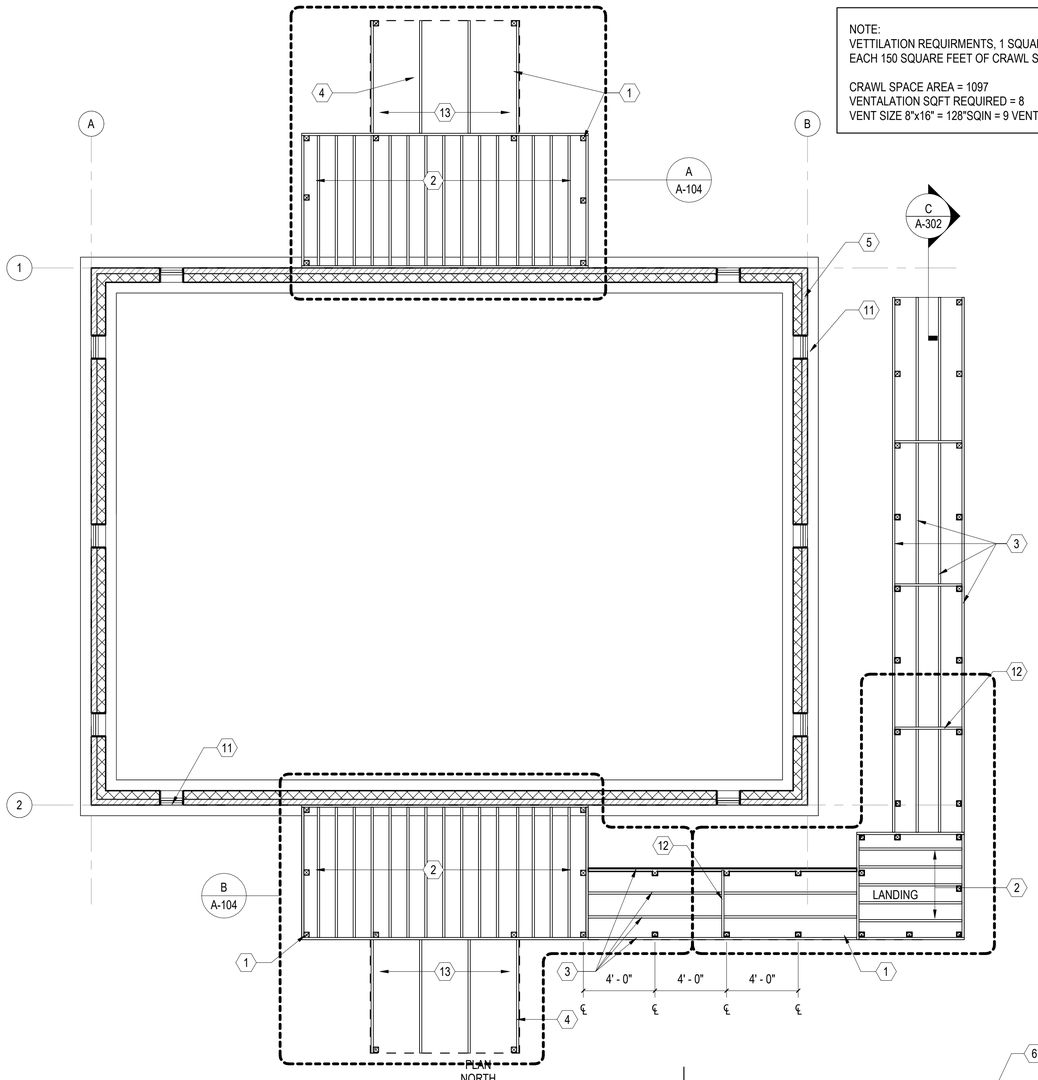
Checked Checker
Scale AS NOTED
Drawing Title

ROOF PLAN

Sheet Number 17 Of 47
Drawing Number A-103

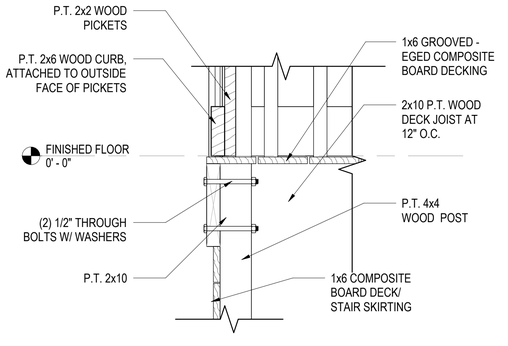
NOTE:
VETTILATION REQUIRMENTS, 1 SQUARE FOOT FOR EACH 150 SQUARE FEET OF CRAWL SPACE AREA

CRAWL SPACE AREA = 1097
VENTALATION SQFT REQUIRED = 8
VENT SIZE 8"x16" = 128"SQIN = 9 VENTS REQUIRED



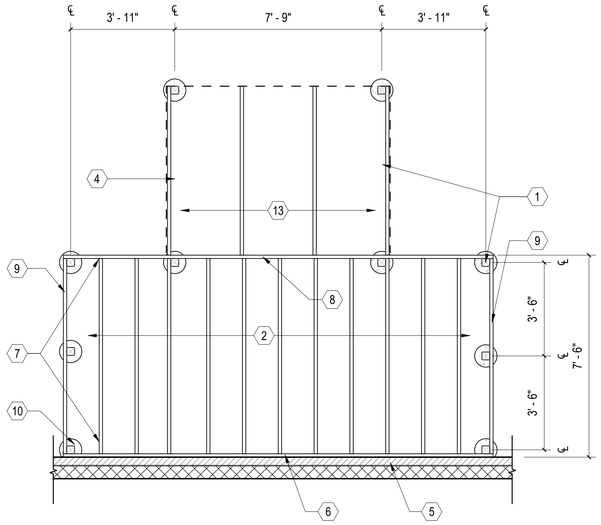
FRAMING PLAN

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



C EDGE BEAM TO COLUMN SECTION

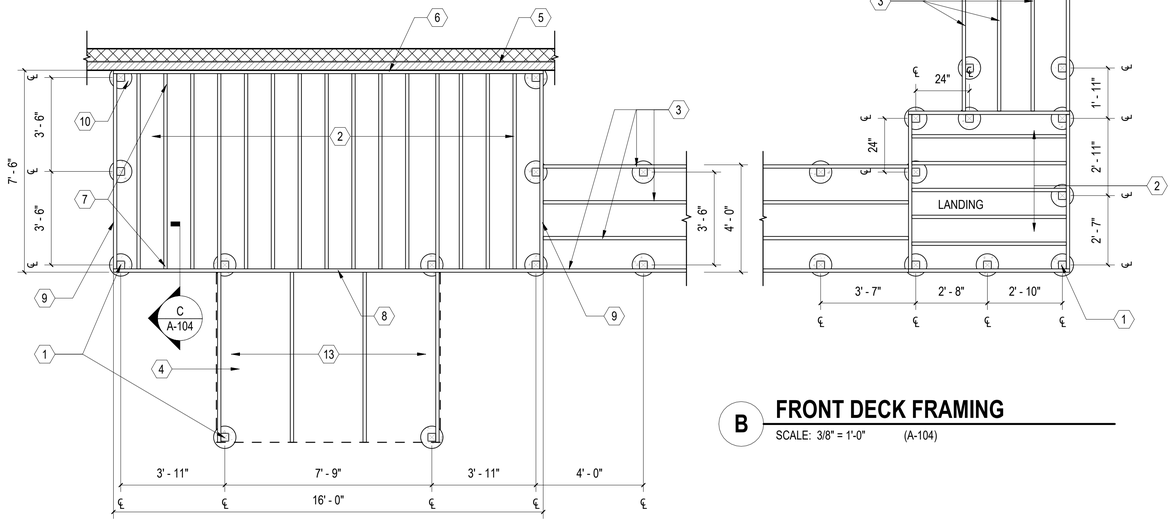
SCALE: 1 1/2" = 1'-0" (A-104)



A REAR DECK FRAMING

SCALE: 3/8" = 1'-0" (A-104)

NOTE:
WOOD RAMP AND STAIRS MUST MEET ICC A117.1 2009 REQUIRMENTS. CONTRACTOR TO FACTOR APPROXIMATELY 1'-0" OF ELEVATION DIFFERENCE BETWEEN DRAWINGS AND FIELD CONDITIONS.



B FRONT DECK FRAMING

SCALE: 3/8" = 1'-0" (A-104)

GENERAL SHEET NOTES

1. SEE CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL NOTES.
2. SEE SCHEDULES FOR WALL TYPES, DOOR/FRAME/WINDOW TYPES AND SIZES, AND FLOOR/WALL/CEILING FINISHES.

(#) NEW WORK KEYNOTES

MARK	DESCRIPTION
1	P.T. 4x4 WOOD RAILING POST. TYPICAL AT ALL EXTERIOR RAILING LOCATIONS.
2	TYPICAL P.T. 2x10 WOOD JOIST @ 12" O.C.
3	P.T. 2x10 WOOD RAMP STRINGERS. RAMP CONSTRUCTION BASED ON 100 PSF LIVE LOAD MINIMUM.
4	PRESSURE TREATED WOOD FRAMED STAIRS WITH COMPOSITE DECKING. DECK CONSTRUCTION BASED ON 100 PSF LIVE LOAD MINIMUM. SEE DETAIL B/A-301.
5	BRICK AND CMU FOUNDATION. SEE STRUCTURAL.
6	P.T. 2x10 WOOD LEDGER. BOLTED TO RIM BAND WITH 1/2" ANCHOR BOLTS AT 12" O.C..
7	FACE-MOUNTED JOIST HANGERS W/ SDS SCREWS. TYPICAL AT ALL JOIST.
8	P.T. 2x10 WOOD RIM JOIST/BEAM. SEE DETAIL C/A-104.
9	P.T. 2x10 WOOD OUTER JOIST. SEE DETAIL C/A-104.
10	3000 PSI CONCRETE COLUMN FOOTING. SEE DETAIL B/A-301 FOR MORE INFORMATION. TYPICAL.
11	ALUMINUM CRAWL SPACE VENT, 8" x 16". SEE DETAIL B/A-501.
12	P.T. 2x10 RAMP LEDGER. STRINGERS TO BE ATTACHED WITH FACE-MOUNTED JOIST HANGERS W/ SDS SCREWS.
13	P.T. 2x12 STAIR STRINGERS.

GRAPHIC SCALE(S)

1 1/2" =1'-0" 0' 4" 8" 1'-4"

3/8" =1'-0" 0' 2' 4' 6'

1/4" =1'-0" 0' 2' 4' 8'

WALKER the GROUP ARCHITECTURE
incorporated
PO BOX 541, NEW BERN, NC 28563
252-636-8778

Christopher B. Walker REGISTERED SEAL 15616 09/12/25 ARCHITECT NORTH CAROLINA

New NC Forest Service County Office for Lenior County

Robinson Rd, NCSR 1574
Lenior County, NC 28504

Bid Documents
SCO# 23-26839-01A

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No. Date

Project Number 2318.NCFS
Date 09/12/25
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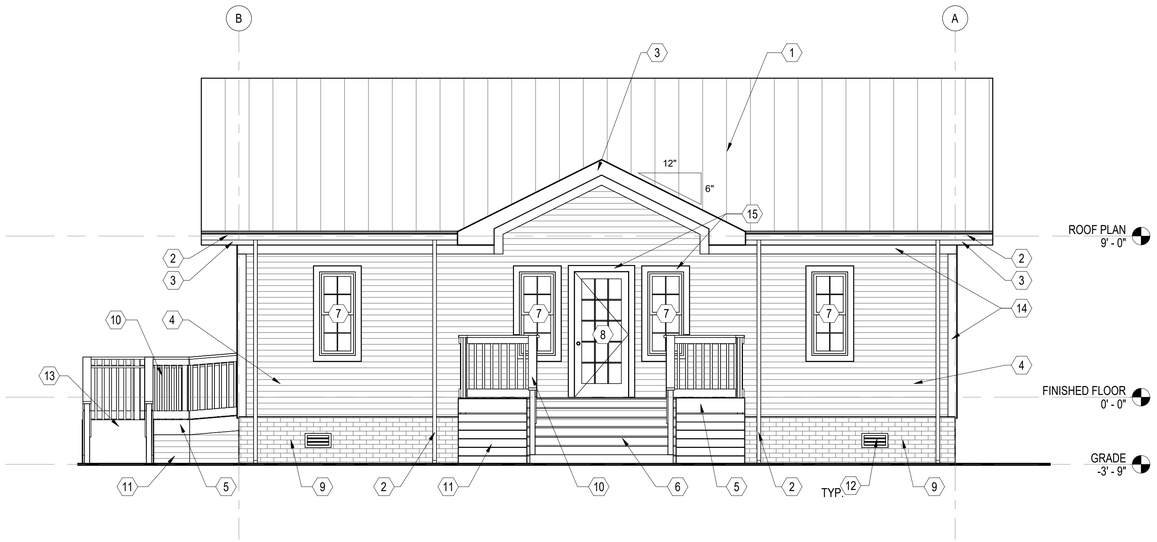
Scale AS NOTED
Drawing Title

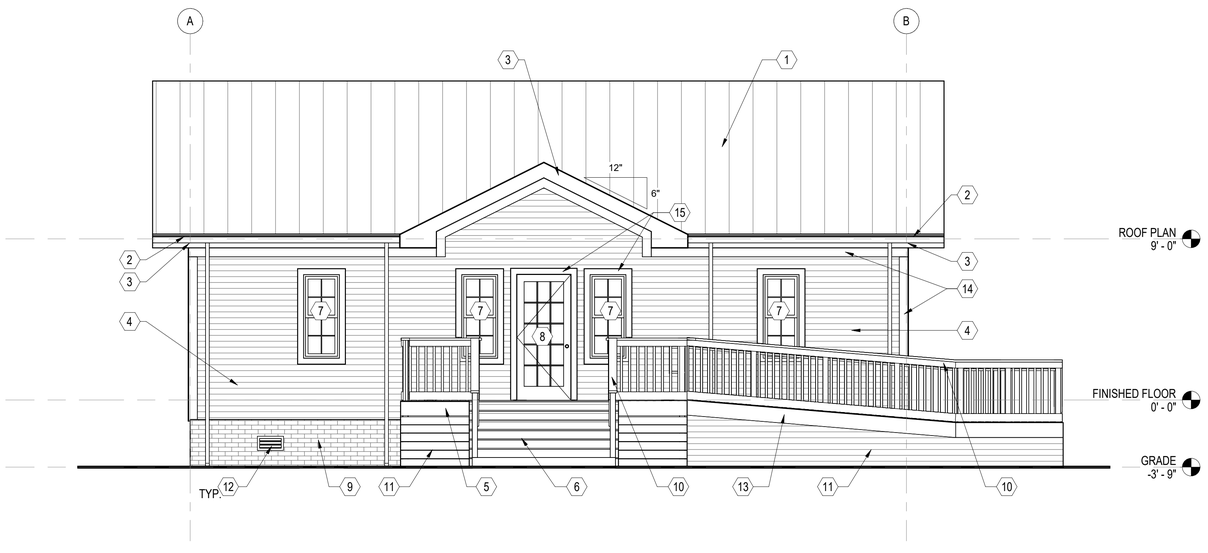
DECK FRAMING PLAN

Sheet Number 18 Of 47
Drawing Number A-104



A NORTH ELEVATION

SCALE: 1/4" = 1'-0" (A-101)



B SOUTH ELEVATION

SCALE: 1/4" = 1'-0" (A-101)

GENERAL SHEET NOTES

1. SEE CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL NOTES.
2. SEE SCHEDULES FOR WALL TYPES, DOOR/FRAME/WINDOW TYPES AND SIZES, AND FLOOR/WALL/CEILING FINISHES.

(#) NEW WORK KEYNOTES

MARK	DESCRIPTION
1	STANDING SEAM METAL ROOF OVER VAPOR BARRIER, 1/2" PLYWOOD SHEATHING AND ROOF TRUSSES. SEE STRUCTURAL.
2	5" ALUMINUM GUTTER WITH 4"x4" DOWNSPOUTS. DOWNSPOUTS ARE INDICATED ON ROOF PLAN AS (D.S.). INSTALL PER MANUFACTURERS INSTRUCTIONS. PROVIDE CONCRETE SPLASH BLOCKS AT DOWNSPOUTS.
3	FIBER CEMENT FASCIA BOARD.
4	FIBER CEMENT LAP SIDING.
5	COMPOSITE DECKING OVER P.T. 2x10 WOOD JOISTS AT 16" O.C., SEE SHEET A-104 AND DETAIL B/A-301 FOR ADDITIONAL NOTES.
6	PRESSURE TREATED WOOD FRAMED STAIRS WITH COMPOSITE DECKING. DECK CONSTRUCTION BASED ON 100 PSF LIVE LOAD MINIMUM. SEE DETAIL B/A-301.
7	ALUMINUM WINDOW. SEE WINDOW SCHEDULE.
8	HOLLOW METAL DOOR, FRAME, AND HARDWARE. SEE DOOR SCHEDULE.
9	BRICK AND CMU FOUNDATION. SEE STRUCTURAL.
10	P.T. WOOD GAURDRAIL AND 1 1/2" ALUMINUM HANDRAIL ATTACHED TO DECK, RAMP, AND STAIRS. SEE DETAILS B/A-301 & C/A-302.
11	1x6 COMPOSITE BOARD DECK/RAMP SKIRTING.
12	ALUMINUM CRAWL SPACE VENT, 8" x 16". SEE DETAIL B/A-501.
13	PRESSURE TREARTED WOOD FRAMED RAMP WITH COMPOSITE DECKING. DECK CONSTRUCTION BASED ON 100 PSF LIVE LOAD MINIMUM. SEE A-104 FOR MORE INFORMATION.
14	3/4" x 6" FIBER CEMENT TRIM BOARD. TYPICAL AT ALL CORNERS, EAVES AND RAKES.
15	3/4" x 4" FIBER CEMENT TRIM BOARD. TYPICAL AT ALL EXTERIOR WINDOWS AND DOORS.

GRAPHIC SCALE(S)

1/4" =1'-0"

0' 2' 4' 8'

WALKER the GROUP ARCHITECTURE incorporated
PO BOX 541, NEW BERN, NC 28563
252-636-8778

Christopher B. Walker REGISTERED SEAL 15616 09/12/25 ARCHITECT NORTH CAROLINA

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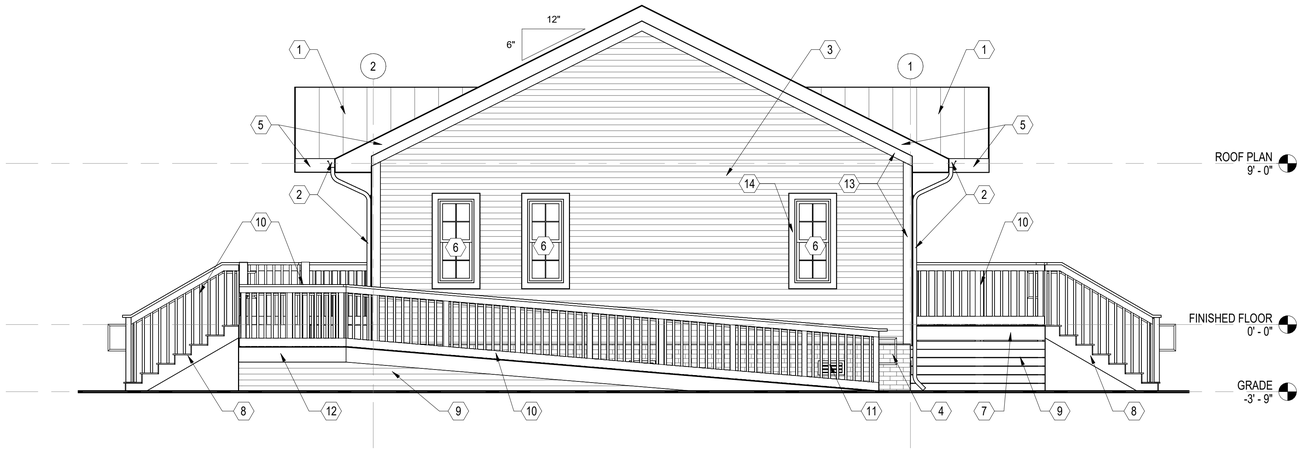
Drawing Title

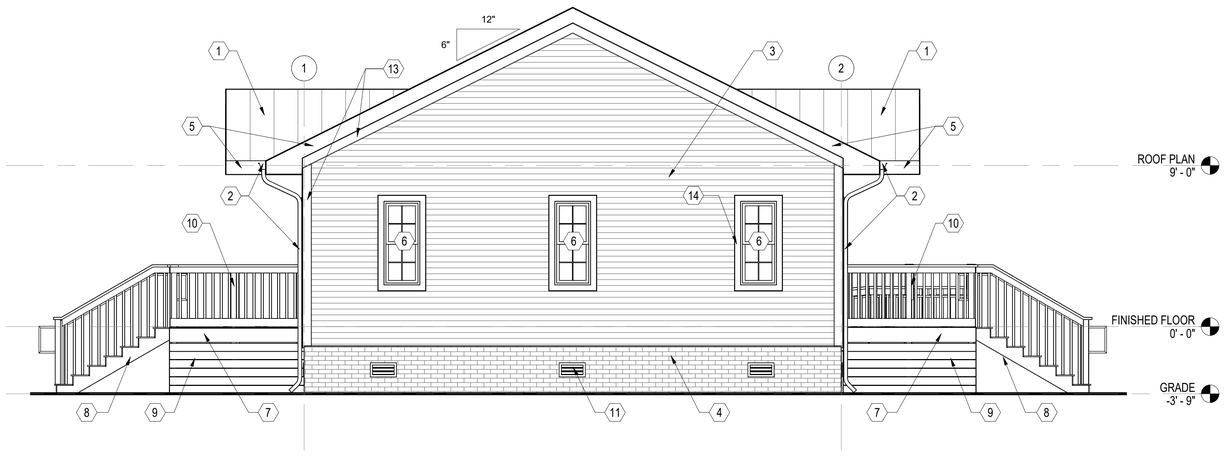
EXTERIOR ELEVATIONS

Sheet Number 19 Of 47
Drawing Number A-201



A EAST ELEVATION

SCALE: 1/4" = 1'-0" (A-101)



2 WEST ELEVATION

SCALE: 1/4" = 1'-0" (A-101)

GENERAL SHEET NOTES

1. SEE CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL NOTES.
2. SEE SCHEDULES FOR WALL TYPES, DOOR/FRAME/WINDOW TYPES AND SIZES, AND FLOOR/WALL/CEILING FINISHES.

(#) NEW WORK KEYNOTES

MARK	DESCRIPTION
1	PROVIDE STANDING SEAM METAL ROOF OVER VAPOR BARRIER, 1/2" PLYWOOD SHEATHING AND ROOF TRUSSES. SEE STRUCTURAL.
2	5" ALUMINUM GUTTER WITH 4"x4" DOWNSPOUTS. DOWNSPOUTS ARE INDICATED ON ROOF PLAN AS (D.S.). INSTALL PER MANUFACTURERS INSTRUCTIONS. PROVIDE CONCRETE SPLASH BLOCKS AT DOWNSPOUTS.
3	FIBER CEMENT LAP SIDING.
4	BRICK AND CMU FOUNDATION. SEE STRUCTURAL.
5	FIBER CEMENT FASCIA BOARD.
6	ALUMINUM WINDOW. SEE WINDOW SCHEDULE.
7	COMPOSITE DECKING OVER P.T. 2x10 WOOD JOISTS AT 16" O.C., SEE SHEET A-104 AND DETAIL B/A-301 FOR ADDITIONAL NOTES.
8	PRESSURE TREATED WOOD FRAMED STAIRS WITH COMPOSITE DECKING. DECK CONSTRUCTION BASED ON 100 PSF LIVE LOAD MINIMUM. SEE DETAIL B/A-301.
9	1x6 COMPOSITE BOARD DECK/RAMP SKIRTING.
10	P.T. WOOD GAURDRAIL AND 1 1/2" ALUMINUM HANDRAIL ATTACHED TO DECK, RAMP, AND STAIRS. SEE DETAILS B/A-301 & C/A-302.
11	ALUMINUM CRAWL SPACE VENT, 8" x 16". SEE DETAIL B/A-501.
12	PRESSURE TREARTED WOOD FRAMED RAMP WITH COMPOSITE DECKING. DECK CONSTRUCTION BASED ON 100 PSF LIVE LOAD MINIMUM. SEE A-104 FOR MORE INFORMATION.
13	3/4" x 6" FIBER CEMENT TRIM BOARD. TYPICAL AT ALL CORNERS, EAVES AND RAKES.
14	3/4" x 4" FIBER CEMENT TRIM BOARD. TYPICAL AT ALL EXTERIOR WINDOWS AND DOORS.

GRAPHIC SCALE(S)

1/4" =1'-0" 0' 2' 4' 8'

WALKER the GROUP ARCHITECTURE incorporated
PO BOX 541, NEW BERN, NC 28563
252-636-8778

Christopher B. Walker REGISTERED SEAL 15616 09/12/25 ARCHITECT NORTH CAROLINA

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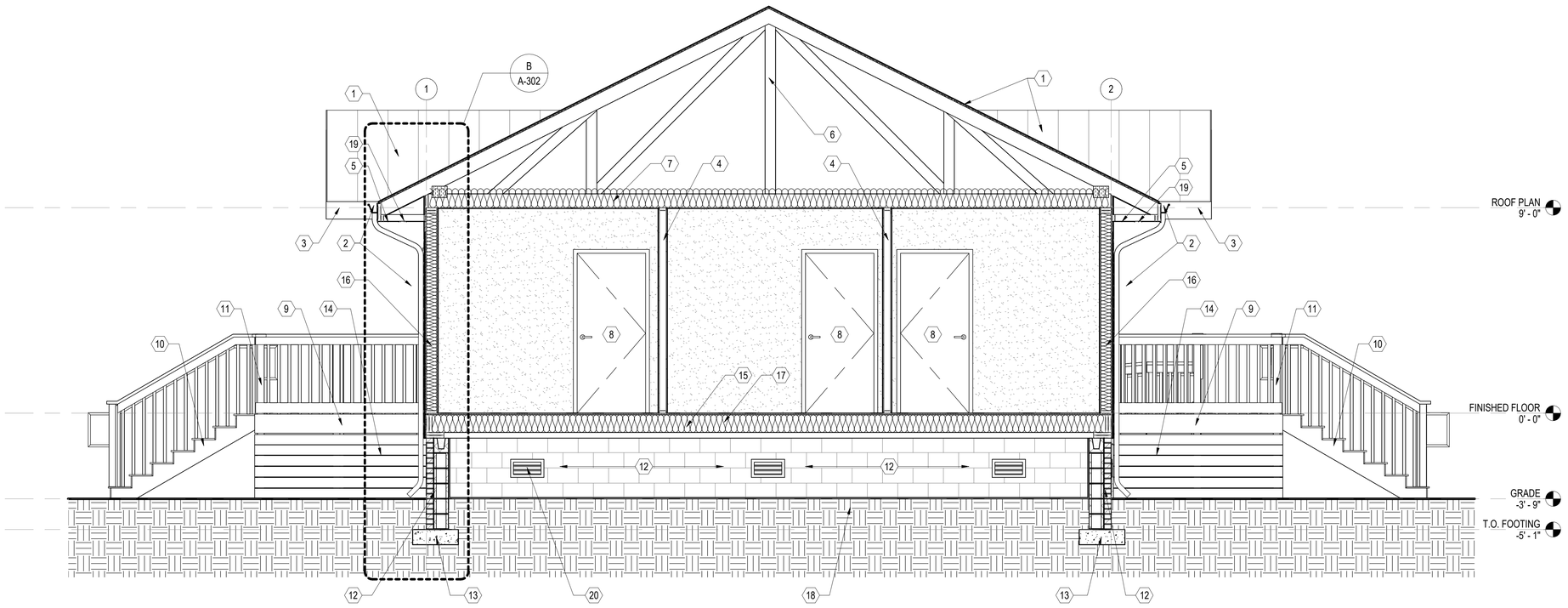
Drawing Title

EXTERIOR ELEVATIONS

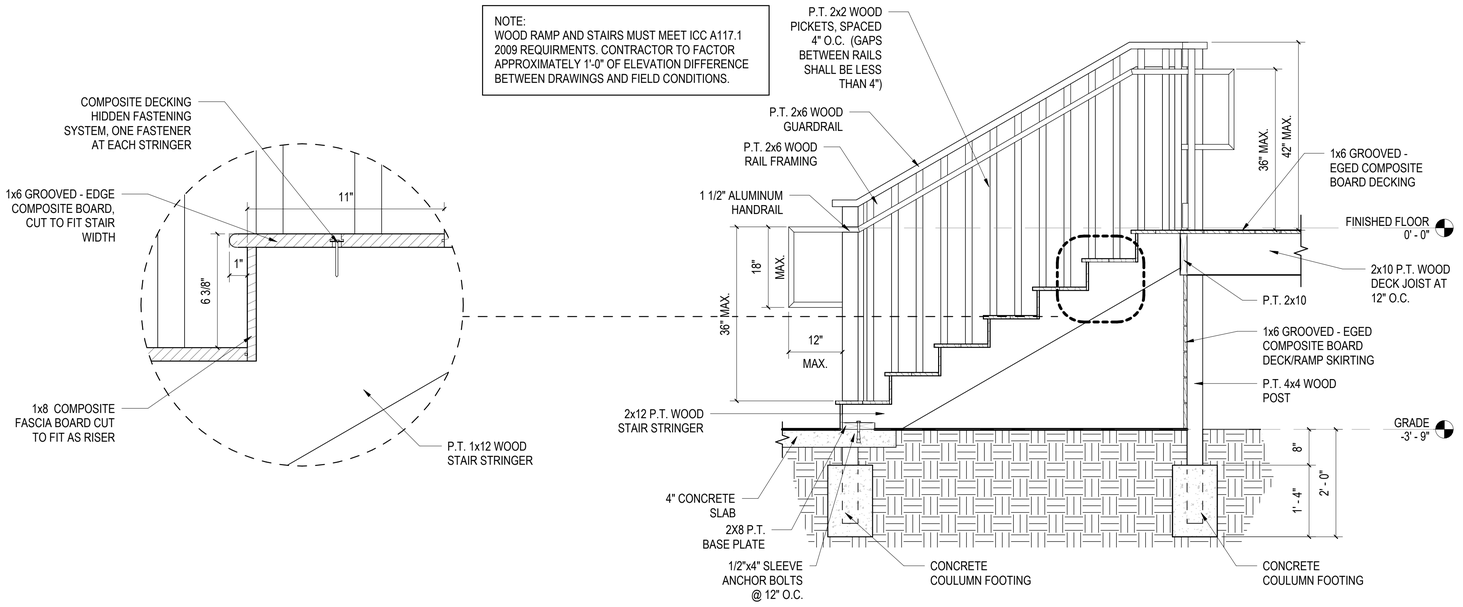
Sheet Number 20 Of 47
Drawing Number A-202



A NORTH/SOUTH BUILDING SECTION

SCALE: 3/8" = 1'-0" (A-101)

NOTE:
WOOD RAMP AND STAIRS MUST MEET ICC A117.1 2009 REQUIRMENTS. CONTRACTOR TO FACTOR APPROXIMATELY 1'-0" OF ELEVATION DIFFERENCE BETWEEN DRAWINGS AND FIELD CONDITIONS.



B STAIR SECTION

SCALE: 3/4" = 1'-0" (A-101)

GENERAL SHEET NOTES

1. SEE CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL NOTES.
2. SEE SCHEDULES FOR WALL TYPES, DOOR/FRAME/WINDOW TYPES AND SIZES, AND FLOOR/WALL/CEILING FINISHES.

(#) NEW WORK KEYNOTES

MARK	DESCRIPTION
1	PROVIDE STANDING SEAM METAL ROOF OVER VAPOR BARRIER, 1/2" PLYWOOD SHEATHING AND ROOF TRUSSES. SEE STRUCTURAL.
2	5" ALUMINUM GUTTER WITH 4"x4" DOWNSPOUTS. DOWNSPOUTS ARE INDICATED ON ROOF PLAN AS (D.S.). INSTALL PER MANUFACTURERS INSTRUCTIONS. PROVIDE CONCRETE SPLASH BLOCKS AT DOWNSPOUTS.
3	FIBER CEMENT FASCIA BOARD.
4	WOOD STUD AND GYPSUM BOARD PARTITION TO UNDERSIDE OF TRUSSES. FINISH AND PAINT. SEE WALL SCHEDULE.
5	FIBER CEMENT SOFFIT.
6	WOOD TRUSSES, SEE STRUCTURAL FOR ADDITIONAL INFORMATION.
7	R-38 BATT INSULATION.
8	HOLLOW METAL FRAME, WOOD DOOR, AND HARDWARE. SEE DOOR SCHEDULE.
9	COMPOSITE DECKING OVER P.T. 2x10 WOOD JOISTS AT 16" O.C., SEE SHEET A-104 AND DETAIL B/A-301 FOR ADDITIONAL NOTES.
10	PRESSURE TREATED WOOD FRAMED STAIRS WITH COMPOSITE DECKING. DECK CONSTRUCTION BASED ON 100 PSF LIVE LOAD MINIMUM. SEE DETAIL B/A-301.
11	P.T. WOOD GAURDRAIL AND 1 1/2" ALUMINUM HANDRAIL ATTACHED TO DECK, RAMP, AND STAIRS. SEE DETAILS B/A-301 & C/A-302.
12	BRICK AND CMU FOUNDATION. SEE STRUCTURAL.
13	CONTINUOUS CONCRETE FOOTING, SEE STRUCTURAL FOR ADDITIONAL NOTES.
14	1x6 COMPOSITE BOARD DECK/RAMP SKIRTING.
15	3/4" DRYGUARD OSB SUB-FLOOR OVER 2x10 FLOOR JOIST AT 16" O.C., SEE STRUCTURAL FOR ADDITIONAL NOTES.
16	R-20 BATT INSULLATION.
17	R-30 BATT INSULATION.
18	6 MIL VAPOR BARRIER.
19	CONTINUOUS 4" SOFFIT VENT.
20	ALUMINUM CRAWL SPACE VENT, 8" x 16". SEE DETAIL B/A-501.

GRAPHIC SCALE(S)

3/4" =1'-0" 0' 1' 2' 3'

3/8" =1'-0" 0' 2' 4' 6'

WALKER the GROUP ARCHITECTURE incorporated
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Christopher B. Walker REGISTERED SEAL 15616 09/12/25 ARCHITECT NORTH CAROLINA

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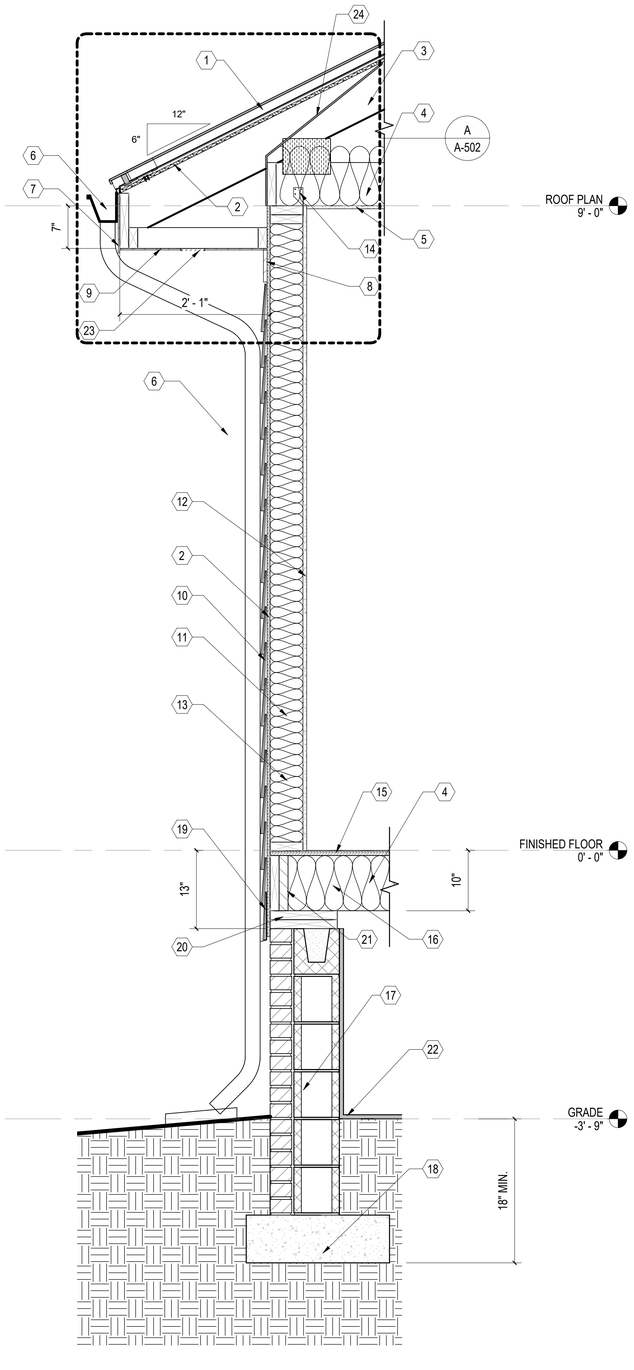
Scale AS NOTED
Drawing Title

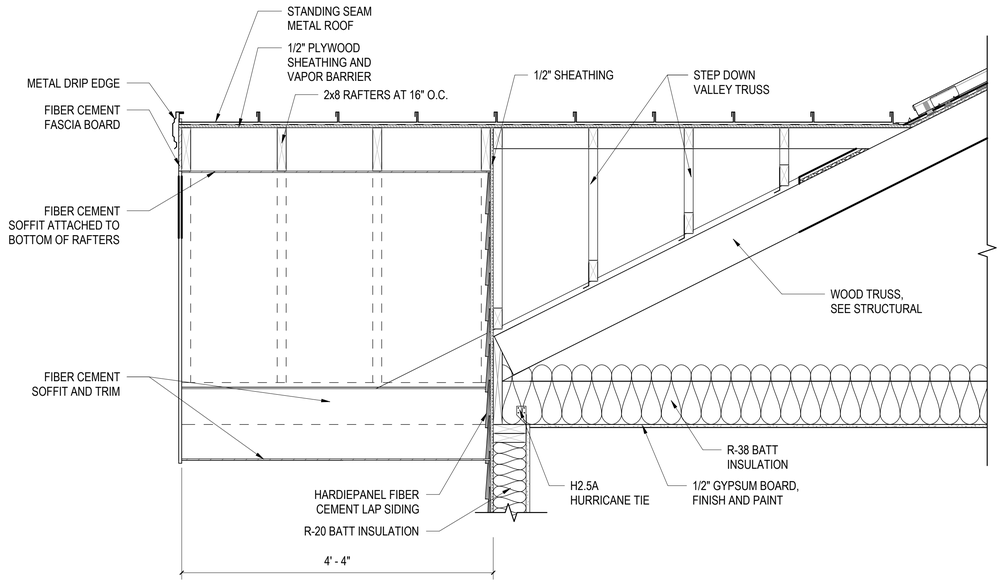
BUILDING SECTION

Sheet Number 21 Of 47
Drawing Number A-301



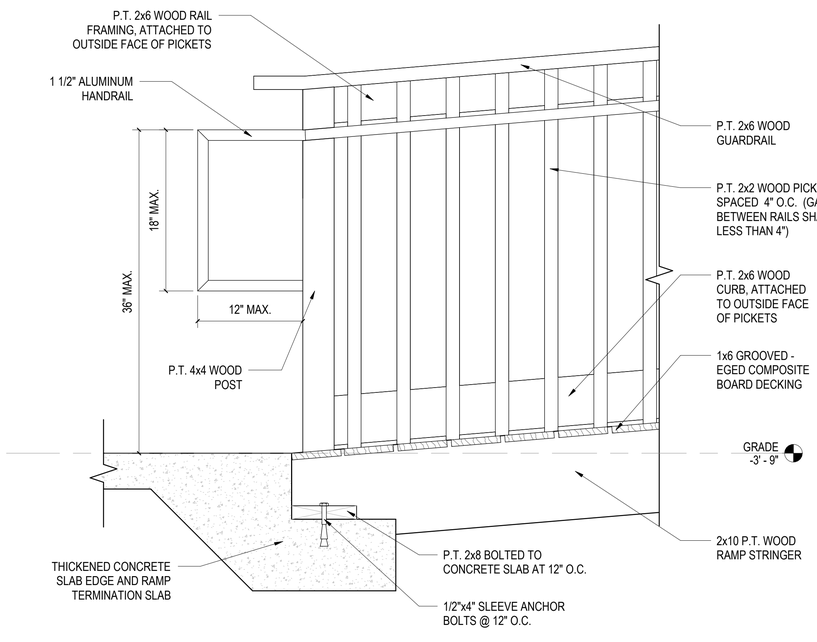
B WALL SECTION

SCALE: 1" = 1'-0" (A-301)



A SECTION AT ENTRY

SCALE: 1" = 1'-0" (A-102)



C RAMP TERMINATION SECTION

SCALE: 1 1/2" = 1'-0" (A-101)

GENERAL SHEET NOTES

1. SEE CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL NOTES.
2. SEE SCHEDULES FOR WALL TYPES, DOOR/FRAME/WINDOW TYPES AND SIZES, AND FLOOR/WALL/CEILING FINISHES.

NEW WORK KEYNOTES

MARK	DESCRIPTION
1	STANDING SEAM METAL ROOF.
2	1/2" PLYWOOD SHEATHING AND VAPOR BARRIER.
3	WOOD TRUSSES, SEE STRUCTURAL FOR ADDITIONAL NOTES.
4	R-38 BATT INSULATION.
5	1/2" CEILING GYPSUM BOARD ATTACHED TO BOTTOM OF ROOF TRUSSES. TAPE, TEXTURE AND PAINT.
6	5" ALUMINUM GUTTER WITH 4"x4" DOWNSPOUTS. DOWNSPOUTS ARE INDICATED ON ROOF PLAN AS (D.S.). INSTALL PER MANUFACTURERS INSTRUCTIONS. PROVIDE CONCRETE SPLASH BLOCKS AT DOWNSPOUTS.
7	FIBER CEMENT FASCIA BOARD.
8	3/4" x 6" FIBER CEMENT TRIM BOARD. TYPICAL AT ALL CORNERS, EAVES AND RAKES.
9	FIBER CEMENT SOFFIT.
10	FIBER CEMENT LAP SIDING.
11	2x6 WOOD STUDS AT 16" O.C.
12	1/2" GYPSUM BOARD, TAPE, TEXTURE, AND PAINT.
13	R-20 BATT INSULATION.
14	H2.5A HURRICANE TIE.
15	3/4" DRYGUARD OSB SUB-FLOOR.
16	2x10 WOOD FLOOR JOISTS AT 16" O.C., SEE STRUCTURAL FOR ADDITIONAL NOTES.
17	BRICK AND CMU FOUNDATION. SEE STRUCTURAL.
18	CONTINUOUS CONCRETE FOOTING, SEE STRUCTURAL FOR ADDITIONAL NOTES.
19	CONTINUOUS 24GA. METAL FLASHING WITH DRIP EDGE, 1/4" GAP DO NOT CAILK.
20	P.T. BOTTOM AND SILL PLATES, SEE SCTURCTURAL.
21	1-1/2" RIGID INSULATION AT RIM JOISTS, TYPICAL.
22	6 MIL VAPOR BARRIER.
23	CONTINUOUS 4" SOFFIT VENT.
24	PVC SOFFIT BAFFLE.

GRAPHIC SCALE(S)

1 1/2" =1'-0" 0' 4" 8" 1'-4"

1" =1'-0" 0' 6" 1' 2'

WALKER the GROUP ARCHITECTURE incorporated
PO BOX 541, NEW BERN, NC 28563
252-636-8778

Christopher B. Walker REGISTERED SEAL 15616 09/12/25 ARCHITECT NORTH CAROLINA

New NC Forest Service County Office for Lenior County

Robinson Rd, NCSR 1574
Lenior County, NC 28504

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SCO# 23-26839-01A

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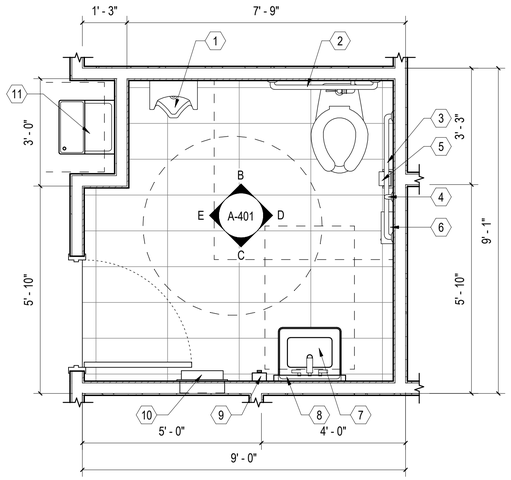
No. Date

Project Number 2318.NCFS
Date 09/12/25
Drawn Author
Checked Checker
Scale AS NOTED
Drawing Title

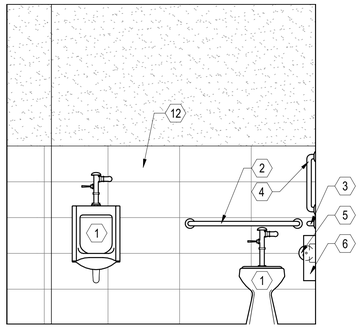
WALL SECTIONS

Sheet Number 22 Of 47
Drawing Number A-302



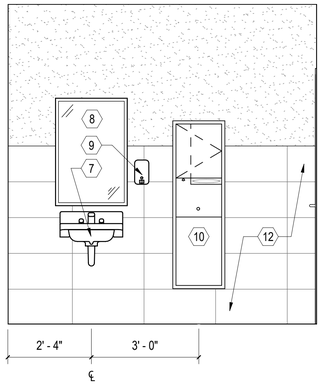
A ENLARGED BATHROOM PLAN

SCALE: 1/2" = 1'-0" (A-101)



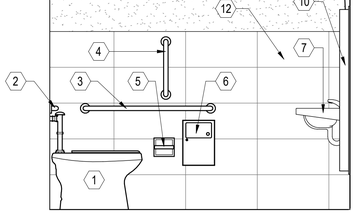
B INTERIOR NORTH ELEVATION

SCALE: 1/2" = 1'-0" (A-401)



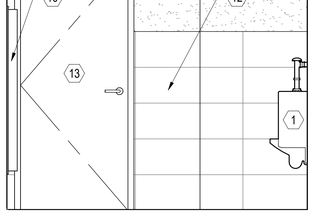
C INTERIOR SOUTH ELEVATION

SCALE: 1/2" = 1'-0" (A-401)



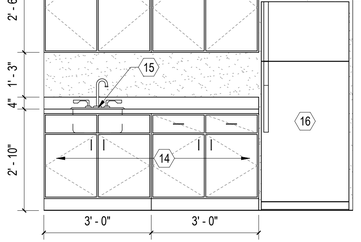
D INTERIOR EAST ELEVATION

SCALE: 1/2" = 1'-0" (A-401)



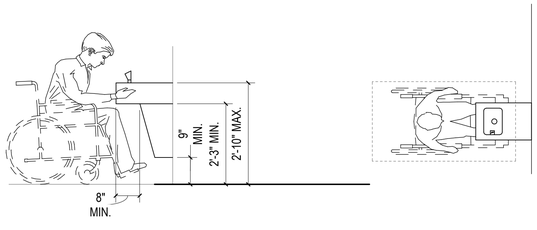
E INTERIOR WEST ELEVATION

SCALE: 1/2" = 1'-0" (A-401)



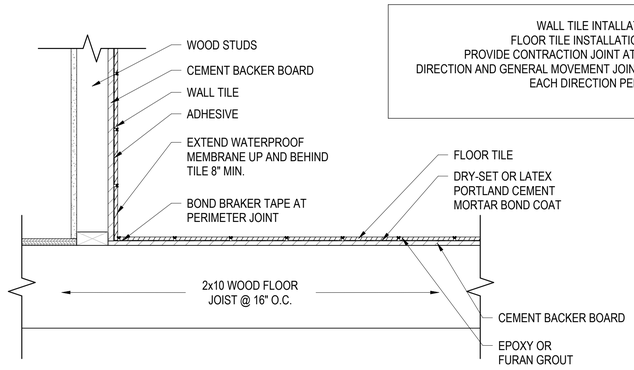
F CASEWORK ELEVATION

SCALE: 1/2" = 1'-0" (A-101)



G WATER COOLER DETAIL

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



WALL TILE INTALLATION: TCNA W223
FLOOR TILE INSTALLATION: TCNA F115-03
PROVIDE CONTRACTION JOINT AT 12' O.C. IN EACH DIRECTION AND GENERAL MOVEMENT JOINTS AT 24" O.C. IN EACH DIRECTION PER TCNA EJ171-03.

H PORCELAIN TILE INSTALLATION

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

GENERAL SHEET NOTES

1. SEE CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL NOTES.
2. SEE SCHEDULES FOR WALL TYPES, DOOR/FRAME/WINDOW TYPES AND SIZES, AND FLOOR/WALL/CEILING FINISHES.

(#) NEW WORK KEYNOTES

MARK	DESCRIPTION
1	FLOOR MOUNTED ADA TOILET/URINAL. CENTERLINE OF TOILET SHALL BE 18" FROM ADJACENT SIDEWALL. SEE PLUMBING.
2	36" GRAB BAR, 33" - 36" ABOVE FINISHED FLOOR TO CENTER, 6" MAXIMUM FROM CONER.
3	42" GRAB BAR, 33" - 36" ABOVE FINISHED FLOOR TO CENTER, 12" MAXIMUM FROM CONER.
4	18" GRAB BAR, BOTTOM OF BAR AT 39" * 41" ABOVE FINISHED FLOOR WITH CENTER 39" - 41" FROM REAR WALL.
5	TOILET TISSUE DISPENSER, MINIMUM 19" ABOVE FINISHED FLOOR, MAXIMUM 36" FROM REAR WALL.
6	SANITARY NAPKIN DISPOSAL, MINIMUM 15" ABOVE FINISHED FLOOR, MAXIMUM 50" FROM REAR WALL.
7	WALL MOUNTED SINK WITH LEVER ACTION FAUCET. MOUNT RIM AT 34" ABOVE FINISHED FLOOR, MAXIMUM. SEE PLUMBING.
8	24"x36" ADA TILT MIRROR WITH STAINLESS STEEL FRAME. MOUNT WITH BOTTOM OF MIRROR AT 40" ABOVE FINISHED FLOOR.
9	WALL MOUNTED SOAP DISPENSER. MOUNT DISPENSER SPOUT AT 48" ABOVE FINISHED FLOOR MAXIMUM.
10	RECESSED PAPER TOWEL/WASTE COMBO. WALL MOUNT TOWEL DISPENSER AT MAXIMUM 48" ABOVE FINISHED FLOOR.
11	ACCESSIBLE WATER FOUNTAIN, SEE DETAIL G/A-401.
12	5'-0" WALL TILE WAINSCOT WITH METAL EDGE TRIM, SEE FINISH SCHEDULE.
13	HOLLOW METAL FRAME, WOOD DOOR, AND HARDWARE. SEE DOOR SCHEDULE.
14	WOOD FINISH BASE AND UPPER CABINETS WITH SOLID SURFACE COUNTERTOPS AND 4" BACKSPLASH. SEE DETAIL A/A-501 FOR ADDITIONAL INFORMATION.
15	PLUMBING FIXTURE, SEE PLUMBING.
16	APPLIANCES BY OWNER.

GRAPHIC SCALE(S)

1 1/2" =1'-0" 0' 4" 8" 1'-4"

1/2" =1'-0" 0' 1' 2' 4'

WALKER the GROUP ARCHITECTURE incorporated
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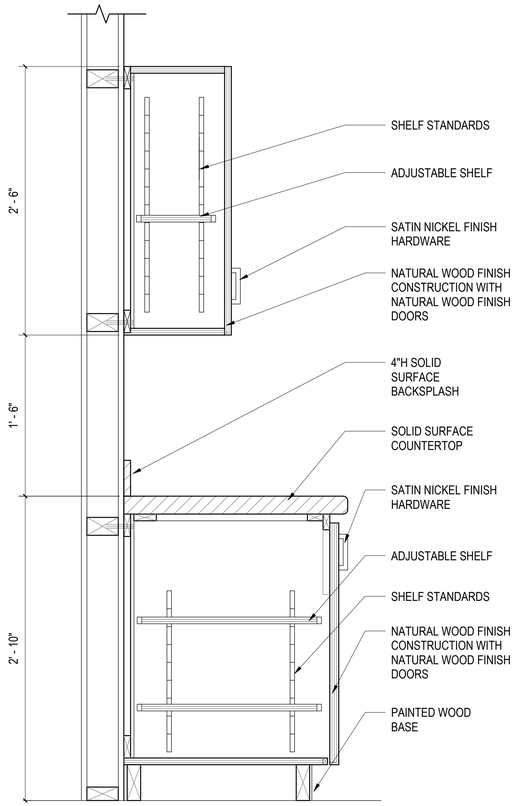
Drawing Title

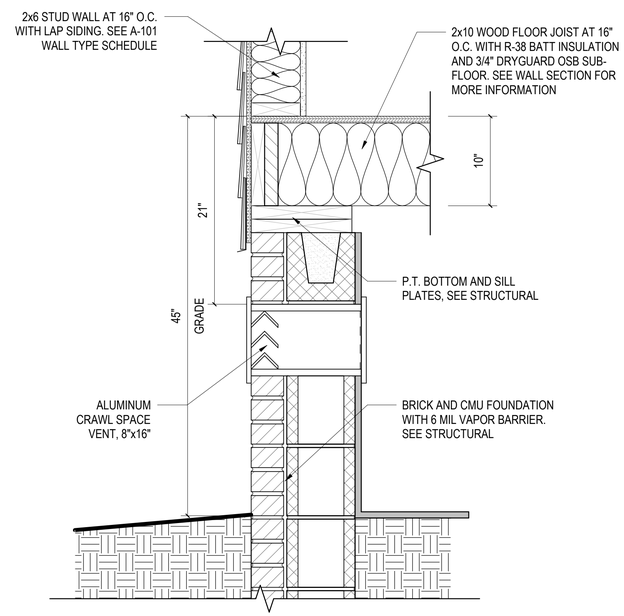
ENLARGED PLAN & DETAILS

Sheet Number 23 Of 47
Drawing Number A-401



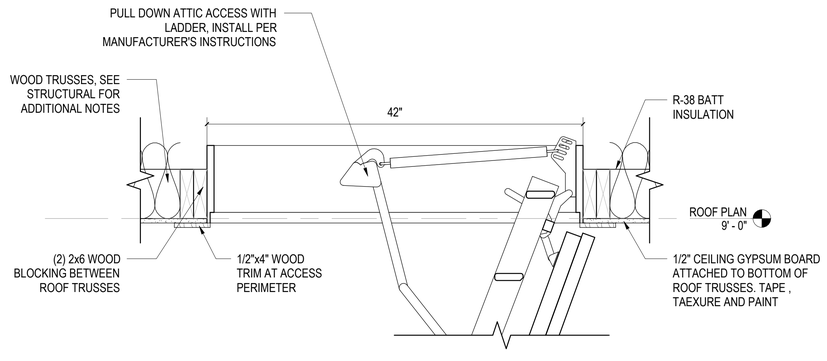
A TYPICAL CASEWORK SECTION

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



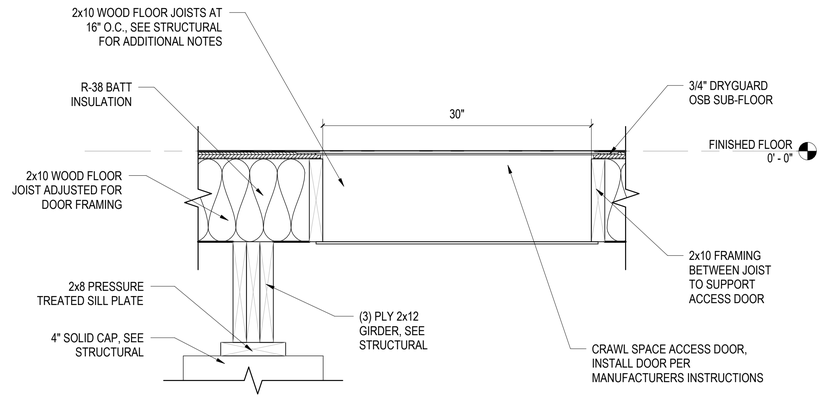
B CRAWL SPACE VENT DETAIL

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



C ATTIC ACCESS DETAIL

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



D CRAWL SPACE ACCESS DOOR DETAIL

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

1 1/2" =1'-0"

0' 4" 8" 1'-4"

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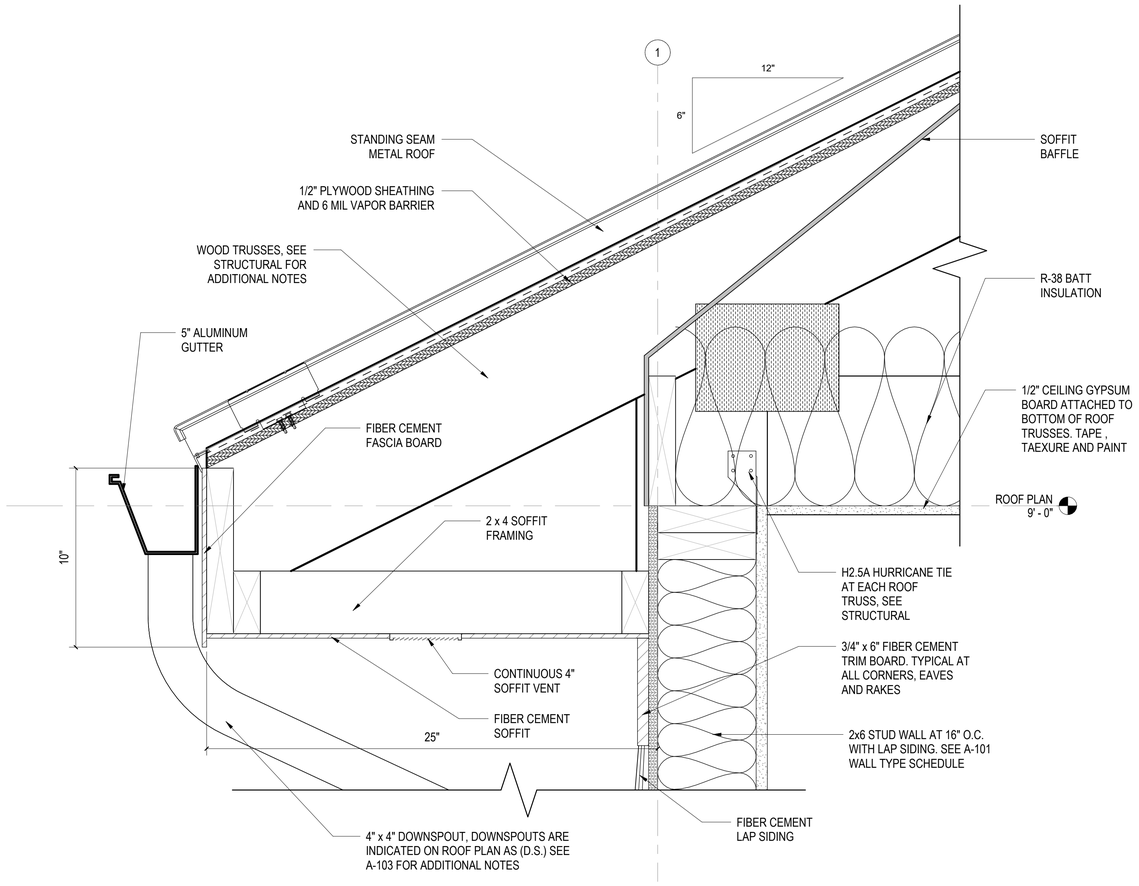
Drawing Title

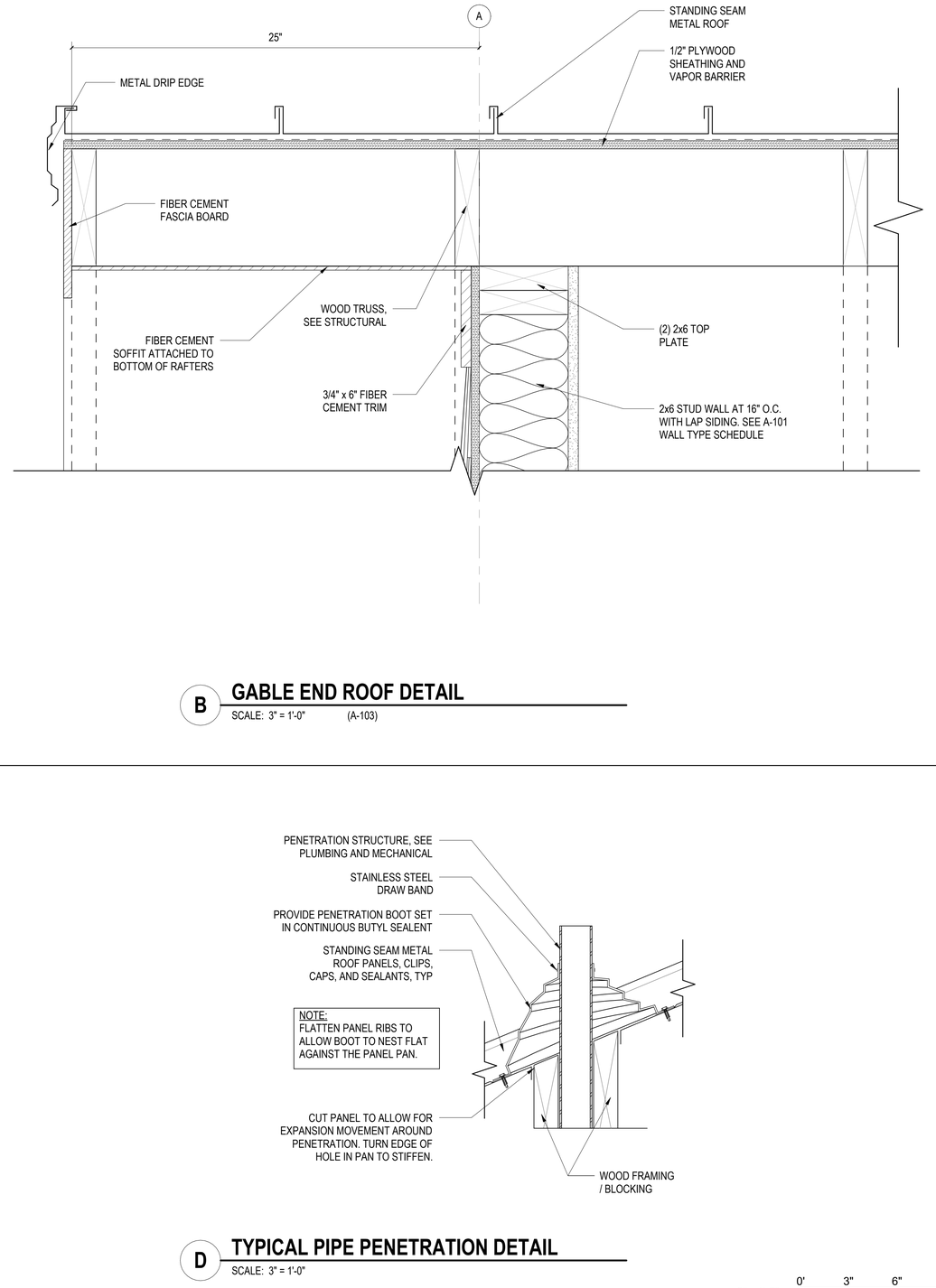
DETAILS

Sheet Number 24 Of 47
Drawing Number A-501



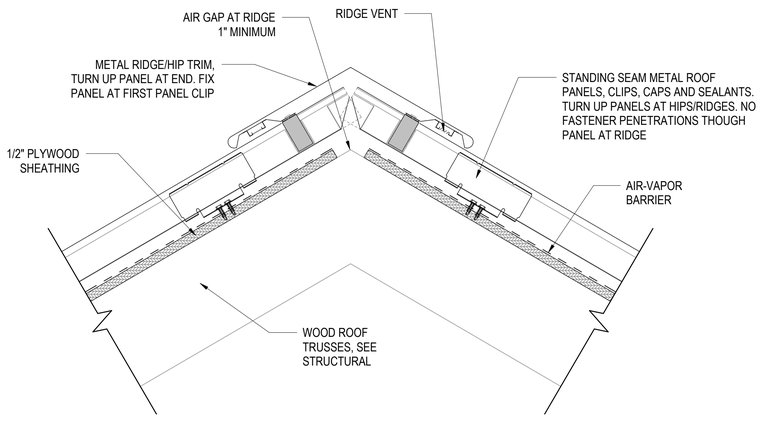
A EAVE END ROOF DETAIL

SCALE: 3" = 1'-0" (A-302)



B GABLE END ROOF DETAIL

SCALE: 3" = 1'-0" (A-103)



C ROOF RIDGE DETAIL

SCALE: 3" = 1'-0"

D TYPICAL PIPE PENETRATION DETAIL

SCALE: 3" = 1'-0"

3" =1'-0" 0' 3" 6" 9"

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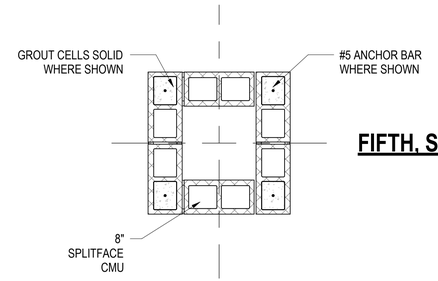
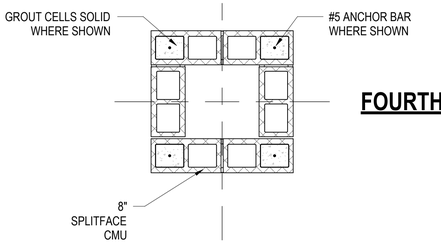
Drawing Title

DETAILS

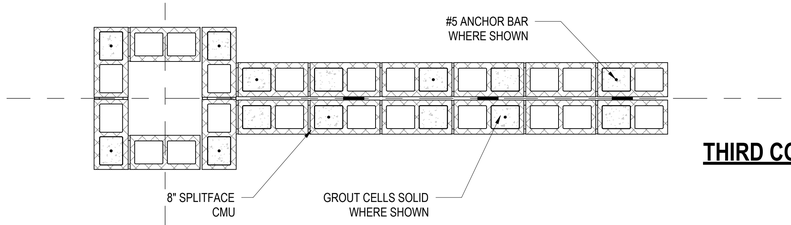
Sheet Number 25 Of 47
Drawing Number A-502



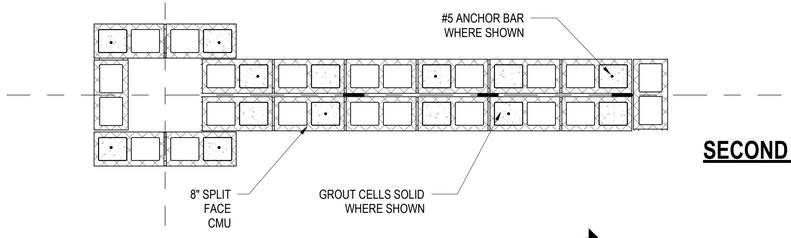
FIFTH, SEVENTH, NINTH COURSE



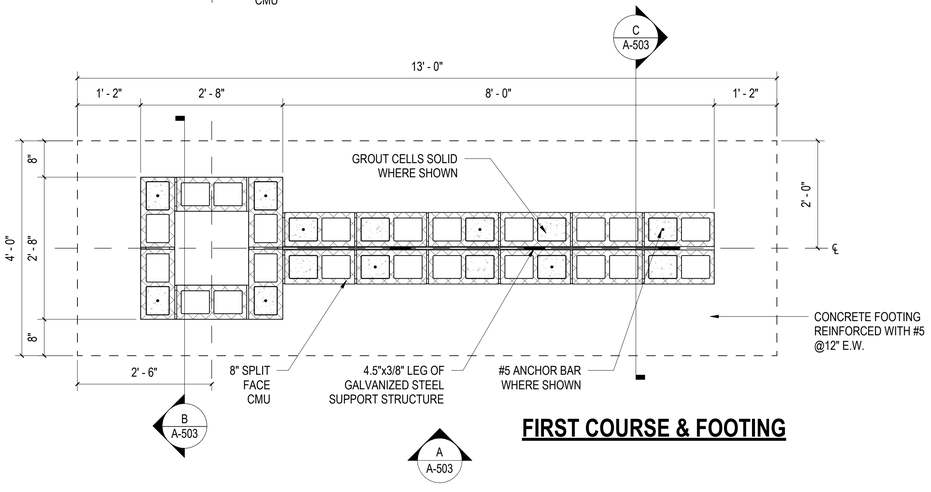
FOURTH, SIXTH, EIGHTH COURSE



THIRD COURSE



SECOND COURSE

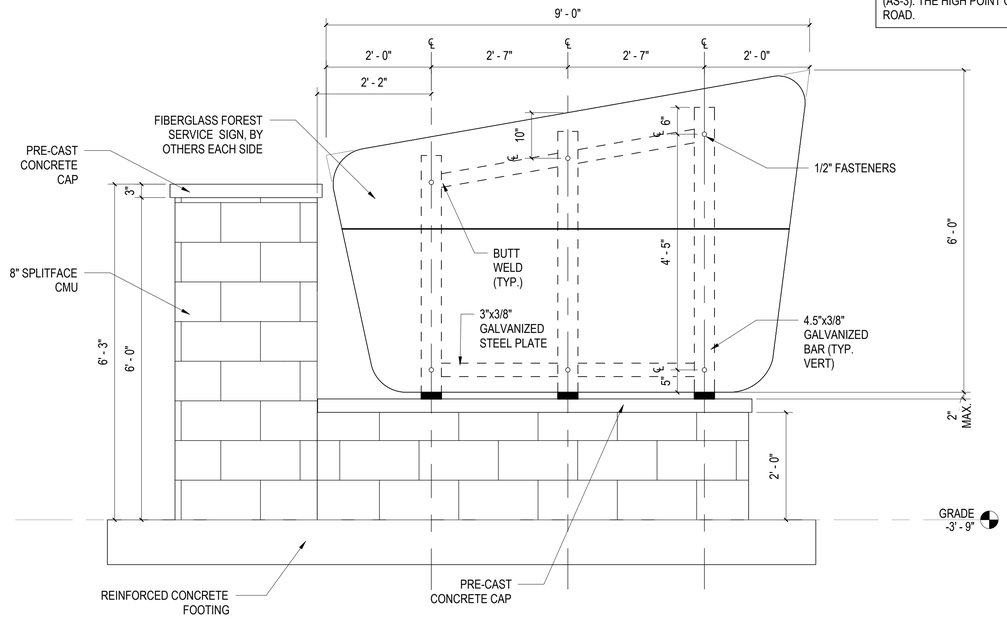


FIRST COURSE & FOOTING

SIGNAGE CMU COURSING PLAN

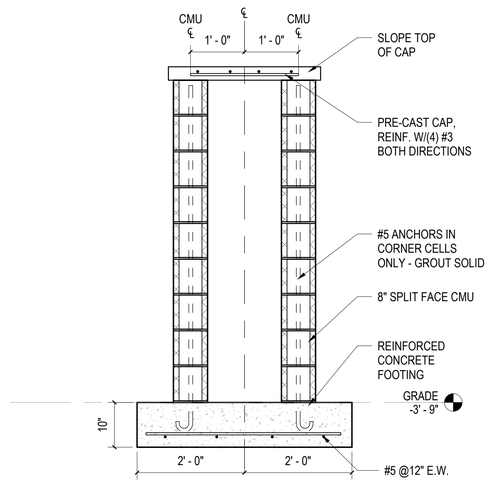
SCALE: 3/4" = 1'-0"

NOTE: SITE SIGN IS BASED ON NCFS ADMINISTRATIVE SITE SIGN (AS-3). THE HIGH POINT OF SIGN SHALL ALWAYS FACE THE ROAD.



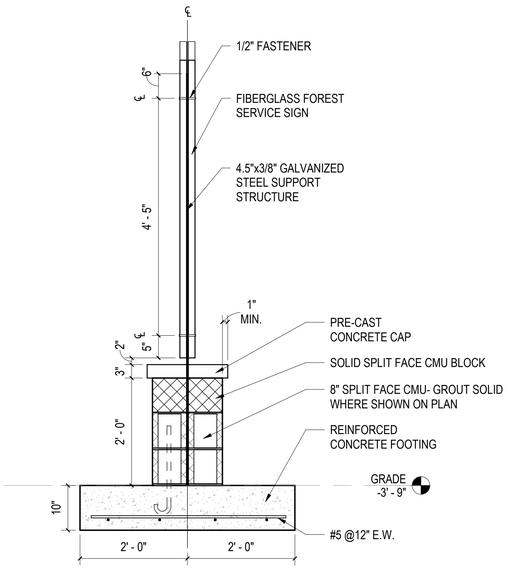
A SIGN SOUTH ELEVATION

SCALE: 3/4" = 1'-0" (A-102)



B SIGN HIGH WALL SECTION

SCALE: 3/4" = 1'-0" (A-102)



C SIGN LOW WALL SECTION

SCALE: 3/4" = 1'-0" (A-102)

3/4" =1'-0"

0' 1' 2' 3'

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252-636-8778

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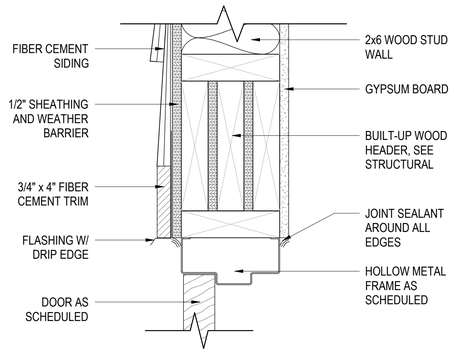
Scale: AS NOTED
Drawing Title:

SIGNAGE DETAILS

Sheet Number: 26 Of 47
Drawing Number: A-503



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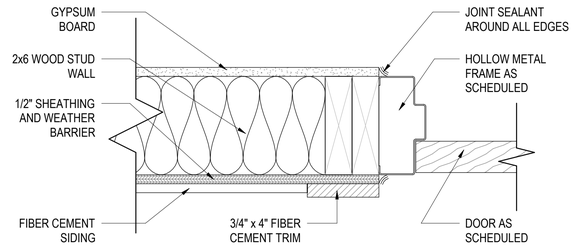
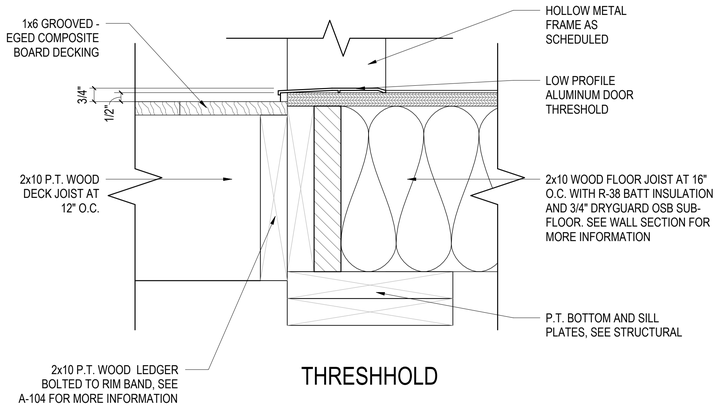


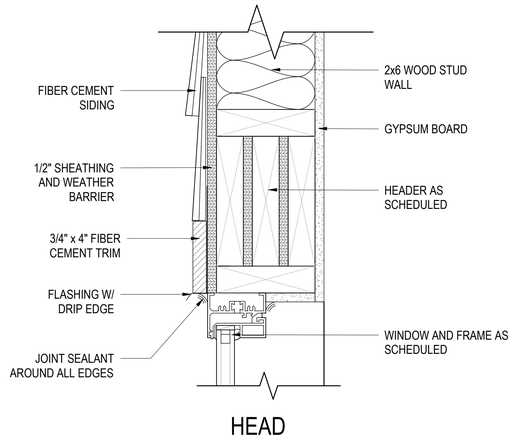
JAMB



THRESHHOLD

A DOOR DETAIL @ EXTERIOR WOOD STUD WALL W/ LAP SIDING

SCALE: 3" = 1'-0"



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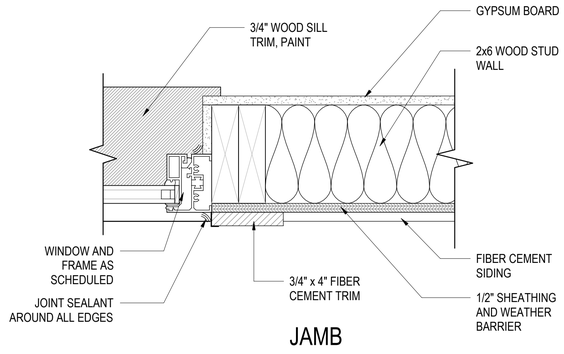

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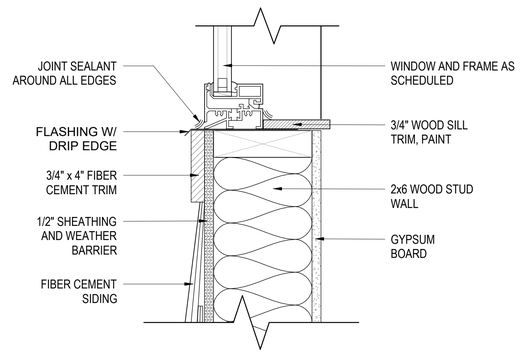


SILL

B WINDOW DETAIL @ EXTERIOR WOOD STUD WALL W/ LAP SIDING

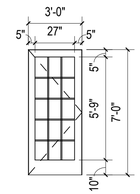
SCALE: 3" = 1'-0"

DOOR SCHEDULE

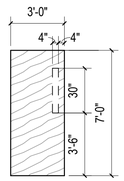
DOOR NO.	TYPE	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR MATERIAL	FRAME TYPE	FRAME MATERIAL	DETAILS HEAD	DETAILS JAMB	HARDWARE SET NO.	REMARKS
101A	A	3' - 0"	7' - 0"	S.GLASS	F1	HM	A/A-601	A/A-601		
101B	A	3' - 0"	7' - 0"	S.GLASS	F1	HM	A/A-601	A/A-601		
103A	B	3' - 0"	7' - 0"	WD	F1	HM	C/A-601	C/A-601		
104A	B	3' - 0"	7' - 0"	WD	F1	HM	C/A-601	C/A-601		PROVIDE 4"x30" SAFETY GLASS VISION PANEL
105A	B	3' - 0"	7' - 0"	WD	F1	HM	C/A-601	C/A-601		PROVIDE 4"x30" SAFETY GLASS VISION PANEL
106A	B	3' - 0"	7' - 0"	WD	F1	HM	C/A-601	C/A-601		PROVIDE 4"x30" SAFETY GLASS VISION PANEL
107A	B	3' - 0"	7' - 0"	WD	F1	HM	C/A-601	C/A-601		
108A	B	3' - 0"	7' - 0"	WD	F1	HM	C/A-601	C/A-601		
109A	B	6' - 0"	7' - 0"	WD	F2	HM	C/A-601	C/A-601		

NOTES:
S.GLASS - SAFETY GLASS, WD - WOOD, HM - HOLLOW METAL

DOOR TYPES NOTE: SEE FLOOR PLAN FOR SWING DIRECTION.

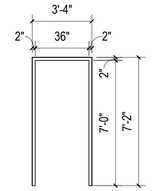


A

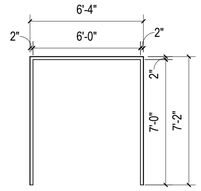


B

FRAME TYPES



F1

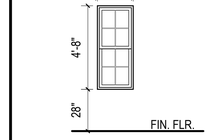


F2

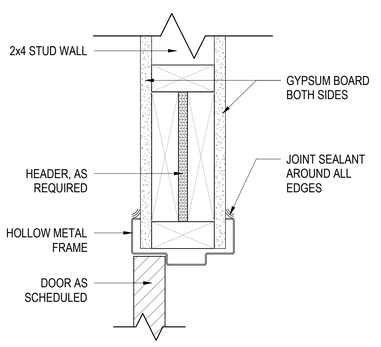
WINDOW SCHEDULE

MARK	WIDTH	HEIGHT	MATRIAL	FINISH	GLAZING	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	COMMENTS
W1	2' - 0"	4' - 8"	ALUM	ANODIZED	1" INSUL.	B/A-601	B/A-601	C/A-601	

WINDOW TYPES



W1



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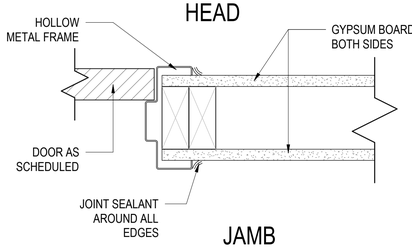

JAMB

C DOOR DETAIL @ INTERIOR WOOD STUD WALL

SCALE: 3" = 1'-0"

WALKER the GROUP ARCHITECTURE incorporated
PO BOX 541, NEW BERN, NC 28563
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Drawing Title

SCHEDULES & DETAILS

Sheet Number 27 Of 47
Drawing Number A-601

STRUCTURAL GENERAL NOTES

GENERAL NOTES

1) ALL WORK SHALL BE PERFORMED PER THE REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODES.
2) ALL DETAILS AND SECTIONS ARE TYPICAL AND APPLY WHEREVER SIMILAR CONDITIONS EXIST UNLESS NOTED OTHERWISE.
3) FIELD VERIFY ALL DIMENSIONS AND FIELD CONDITIONS PRIOR TO MOBILIZATION AND/OR FABRICATION.
4) SEE ARCHITECTURAL DRAWINGS FOR CEILING ELEVATIONS.
5) FIELD VERIFY REQUIREMENTS OF ALL TRADES FOR PENETRATIONS, SLEEVES, INSERTS, HANGERS, CHASES, ANCHORS, ETC.
6) NO PIPES, CONDUITS, ETC. WILL BE PLACED IN A STRUCTURAL COMPONENT UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE ENGINEER OF RECORD.
7) ALL WOOD CONNECTIONS SHALL COMPLY WITH TABLE 2304.10.1 OF THE NORTH CAROLINA BUILDING CODE UNLESS NOTED OTHERWISE.
8) ALL METAL CONNECTORS USED WITH PRESSURE TREATED WOOD SHALL BE STAINLESS STEEL, HOT-DIP GALVANIZED OR ZMAX GALVANIZED.
9) ALL FASTENERS, TIE DOWNS, ETC. ARE TO BE INSTALLED AS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
10) UNDERGROUND UTILITIES ARE TO BE LOCATED PRIOR TO ANY EXCAVATION ACTIVITIES.

DESIGN CRITERIA

ALLOWABLE SOIL BEARING .....2000 PSF
SEE GEOTECH REPORT PROVIDED BY HIGHLANDS ENVIRONMENTAL SOLUTIONS, INC. DATED JUNE 17, 2024

DEAD LOADS

FIRST FLOOR.....10 PSF
ROOF.....10 PSF

LIVE LOADS

FIRST FLOOR OFFICE AREAS.....50 PSF
FIRST FLOOR ENTRY AND HALL.....100 PSF
FIRST FLOOR STORAGE.....125 PSF
ALL OTHER AREAS.....50 PSF
ROOF.....20 PSF
GROUND SNOW LOAD (Pg).....10 PSF

WIND DESIGN CRITERIA

ULTIMATE DESIGN WIND SPEED (Vult).....130 MPH
NOMINAL DESIGN WIND SPEED (Vnom).....101 MPH
WIND EXPOSURE CATEGORY.....C
RISK CATEGORY.....II
IMPORTANCE FACTOR (IW).....1.0
WIND BASE SHEAR (ULTIMATE).....V=20.3K
COMPONENT & CLADDING.....SEE TABLE THIS SHEET

SEISMIC DESIGN CRITERIA

0.2 SECOND SPECTRAL RESPONSE (Ss).....0.106g
1 SECOND SPECTRAL RESPONSE (St).....0.052g
DESIGN SPECTRAL RESPONSE ACCELERATION (SDS).....0.113
DESIGN SPECTRAL RESPONSE ACCELERATION (SD1).....0.084
SEISMIC DESIGN CATEGORY.....B
SEISMIC SITE CLASS.....D
RISK CATEGORY.....II
IMPORTANCE FACTOR (Ie).....1.0
SEISMIC RESPONSE COEFFICIENT (Cs).....0.017
RESPONSE MODIFICATION COEFFICIENT (R).....6.5
BASIC SEISMIC FORCE RESISTING SYSTEM.....LIGHT FRAME (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE
ANALYSIS PROCEDURE.....EQUIVALENT LATERAL FORCE
SEISMIC BASE SHEAR .....V=10.8K

DELEGATED DESIGN BY OTHERS

1) ROOF TRUSSES, OVERBUILT ROOF TRUSSES, OUTLOOKERS, CANTILEVER TRUSSES ARE TO BE DESIGNED BY OTHERS.
2) ROOF TRUSS TIE DOWNS ARE TO BE DESIGNED BY OTHERS WITH A MINIMUM OF (3) ALTERNATIVE SUPPLIERS CITED.

FOUNDATIONS

1) SITE PREPARATION SHALL BE CONDUCTED UNDER THE DIRECTION OF A LICENSED GEOTECHNICAL ENGINEER AND AS PER THE RECOMMENDATIONS STATED IN THE GEOTECHNICAL REPORT PROVIDED BY HIGHLANDS ENVIRONMENTAL SOLUTIONS DATED JUNE 17, 2024.
2) FOUNDATIONS ARE DESIGNED BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 2,000 PSF.
3) A LICENSED GEOTECHNICAL ENGINEER SHALL VERIFY CONDITION AND ADEQUACY OF ALL SUB GRADES, FILLS, AND BACK FILLS PRIOR TO PLACEMENT OF FOUNDATIONS FILLS, BACK FILLS, ETC
4) ALL FOOTINGS SHALL BEAR ON STRUCTURAL COMPACTED FILL OR ON UNDISTURBED, EXISTING SOILS IF ALLOWED BY THE GEOTECHNICAL ENGINEER.
5) COORDINATE FOUNDATION WORK WITH EXISTING UTILITIES.
6) ANY ABANDONED FOOTINGS OR UTILITIES THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.
7) CONTRACTOR IS TO PROVIDE FOR DEWATERING OF FOUNDATIONS FROM SURFACE, GROUND, AND/OR WATER SEEPAGE.

CONCRETE AND MASONRY

1) ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE AMERICAN CONCRETE INSTITUTE SPECIFICATIONS FOR STRUCTURAL CONCRETE.
2) ALL STRUCTURAL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS UNLESS NOTED OTHERWISE.
3) MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE IN ACCORDANCE WITH ACI 318 AND SHALL BE 3" FOR CONCRETE PLACED AGAINST EARTH AND 2" FOR ALL OTHER CONCRETE UNLESS NOTED OTHERWISE.
4) REINFORCING SHALL CONFORM TO ASTM A615 GRADE 60 FOR #4 BARS AND LARGER.
5) ALL REINFORCEMENT SHALL BE CONTINUOUS WITH CLASS B LAP SPLICES, UNLESS OTHERWISE NOTED.
6) DO NOT PLACE CONCRETE FOOTINGS OVER FROZEN SOIL OR IN EXCAVATIONS SUBJECTED TO STANDING WATER.
7) PLACE FOUNDATION CONCRETE THE SAME DAY AS EXCAVATIONS OR AS SOON AS PRACTICALLY POSSIBLE THEREAFTER.
8) ADDITIONAL WATER IS NOT TO BE ADDED TO CONCRETE AT THE JOB SITE. REQUEST A SUPERPLASTICIZER TO BE ADDED TO THE MIX DESIGN IF A MORE WORKABLE MIX IS NECESSARY.
9) THREADED ROD SHALL BE ASTM A307 GRADE A OR BETTER.
10) ALL MASONRY SHALL CONFORM TO ACI 530 AND THE NORTH CAROLINA BUILDING CODE, LATEST EDITIONS.
11) MASONRY SHALL BE INSTALLED IN A RUNNING BOND PATTERN.
12) CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90.
13) CONCRETE MASONRY MINIMUM COMPRESSIVE STRENGTH IS TO BE F'm = 2,000 PSI AT 28 DAYS.
14) GROUT USED FOR FILLING CELLS AND BOND BEAMS SHALL COMPLY WITH ASTM C476 AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AT 28 DAYS IN ACCORDANCE WITH ASTM C476.
15) MORTAR JOINT THICKNESS SHALL NOT EXCEED $\frac{5}{8}$".
16) STRUCTURAL BRICK SHALL CONFORM TO ASTM C62.
17) BRICK SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 1500 PSI.
18) MORTAR SHALL BE TYPE S AND CONFORM TO ASTM C270.
19) CONCRETE AND MASONRY SHALL BE ALLOWED TO PROPERLY CURE PRIOR TO LOADING.

FRAMING

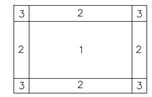
1) ALL NAILS USED IN PRESSURE TREATED WOOD SHALL BE DOUBLE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
2) BEAMS AND HEADERS SHALL BE SOUTHERN YELLOW PINE #2 GRADE OR BETTER.
3) ALL PLYWOOD SHALL BE APA RATED.
4) STUDS ARE TO BE DOUBLED AT ALL ANGLES, CORNERS, OPENINGS.
5) ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.
6) SEE ARCHITECTURALS FOR ADDITIONAL NOTES AND DETAILS.

COMPONENT & CLADDING LOAD CRITERIA

COMPONENT AND CLADDING LOAD CRITERIA (PSF)

COMPONENT AREA	ROOF ZONE 1		ROOF ZONE 2		ROOF ZONE 3		WALL ZONE 4		WALL ZONE 5	
	PRESSURE	SUCTION	PRESSURE	SUCTION	PRESSURE	SUCTION	PRESSURE	SUCTION	PRESSURE	SUCTION
10 SF	22.4	−52.5	22.4	−83.8	22.4	−97.7	36.9	−40.0	36.9	−49.4
20 SF	20.1	−52.5	20.1	−73.4	20.1	−82.3	35.2	−38.3	35.2	−46.1
50 SF	17.2	−45.1	17.2	−45.1	17.2	−61.9	33.0	−36.1	33.0	−41.7
100 SF	16.0	−39.5	16.0	−49.2	16.0	−61.9	31.4	−34.5	31.4	−38.3

WALLS



ROOF

WALKER the GROUP ARCHITECTURE incorporated
PO BOX 541, NEW BERN, NC 28563
252-636-8778 252-636-8992(FAX)

New NC Forest Service County Office for Lenoir County

NCSR 1574 Robinson Rd Kinston, NC 28504

NORTH CAROLINA PROFESSIONAL 028643 09/12/25 ENGINEER SHANNON D. WEAVER

Bid Documents

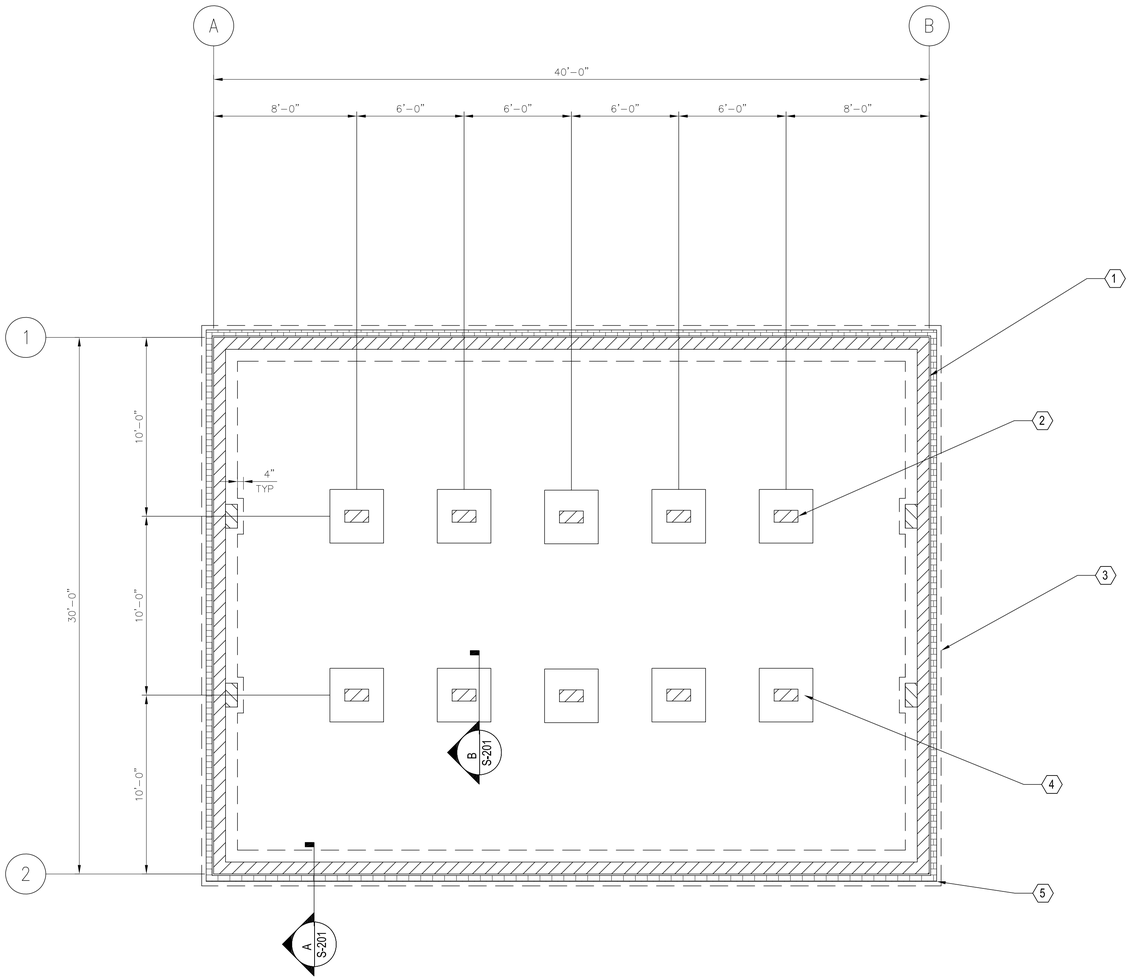
SCO # 23-26839-01A

Revisions
No. Date

Project Number 2318.NCFS
Date 09/12/25
Drawn SDW
Checked SDW
Scale

Drawing Title
STRUCTURAL GENERAL NOTES

Sheet Number 28 of 47
Drawing Number S-001



FOUNDATION PLAN

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

PLAN NORTH

GENERAL SHEET NOTES

1. SEE SHEET S-001 FOR ADDITIONAL STRUCTURAL NOTES.
2. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

(#) NEW WORK KEYNOTES

MARK	DESCRIPTION
1	8" CMU STEM WALL (TYP)
2	8"X16" CMU PIER, GROUT FILLED (TYP)
3	8"X24" CONTINUOUS CONCRETE FOOTING WITH (2) #5 REBAR (TYP)
4	3'X3'X10" CONCRETE FOOTING (TYP)
5	BRICK VENEER (TYP)

GRAPHIC SCALE(S)

1/4" =1'-0" 0' 2' 4' 8'

WALKER the GROUP ARCHITECTURE incorporated
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Bid Documents

SCO # 23-26839-01A

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No.	Date

Project Number 2318.NCFS
Date 09/12/25
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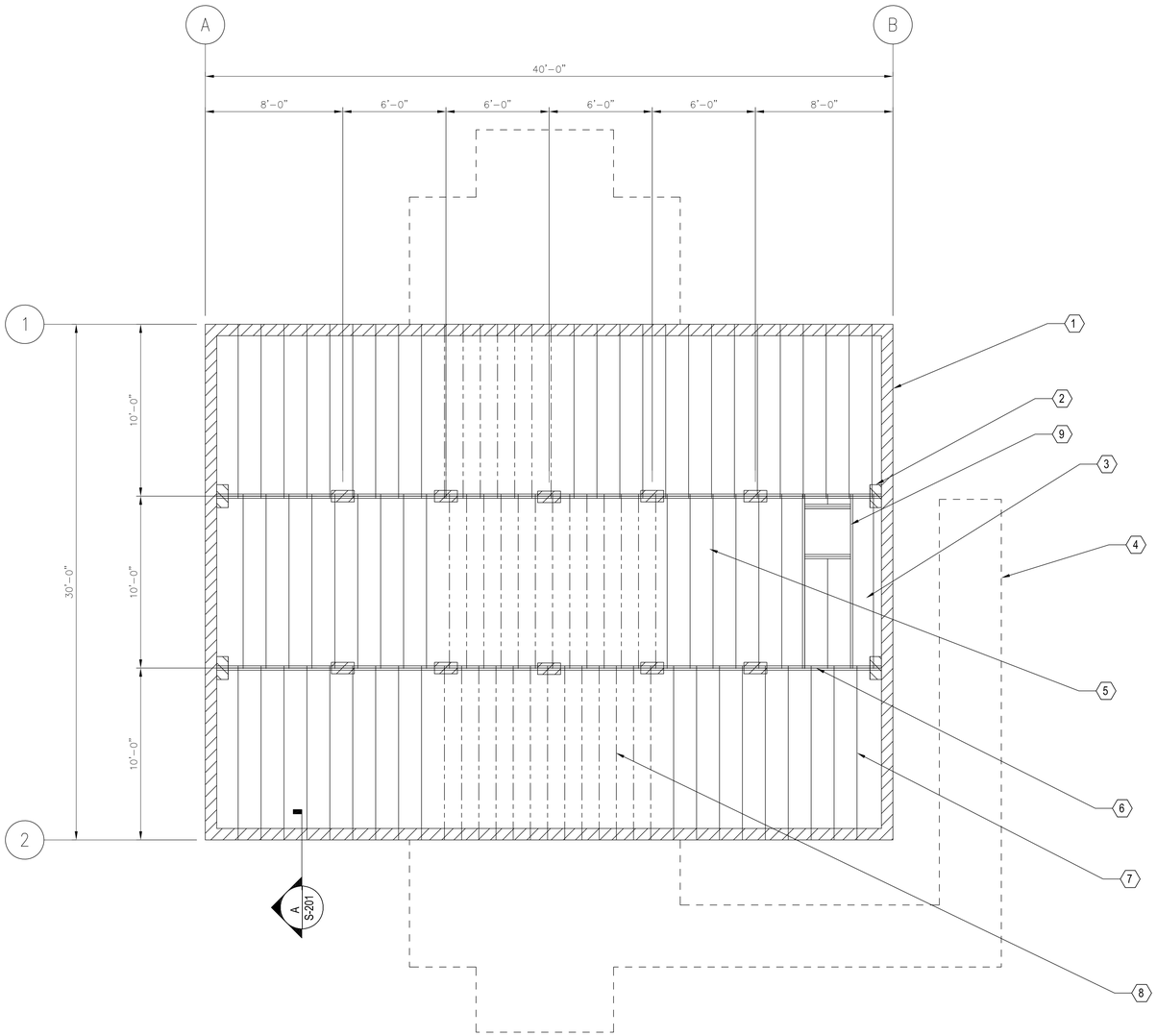
Scale AS NOTED
Drawing Title FOUNDATION PLAN

Sheet Number 29 Of 47
Drawing Number S-101



FIRST FLOOR FRAMING PLAN

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

PLAN NORTH

GENERAL SHEET NOTES

1. SEE SHEET S-001 FOR ADDITIONAL STRUCTURAL NOTES.
2. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

(#) NEW WORK KEYNOTES

MARK	DESCRIPTION
1	8" CMU STEM WALL (TYP)
2	8"X16" CMU PIER BELOW (TYP)
3	INSTALL 2X BLOCKING AT INTERIOR PARTITION WALLS PERPENDICULAR TO JOISTS (TYP)
4	SEE ARCHITECTURAL FOR PORCHES, RAMPS, ETC. (TYP)
5	PARTITION WALLS PARALLEL TO JOISTS ARE TO BE SUPPORTED BY DOUBLED JOISTS (TYP)
6	(3) PLY 2X12 GIRDER (TYP)
7	2X10 JOISTS @ 16" O.C. FOR AREAS WITH LIVE LOAD AT 50 PSF (TYP - UNLESS OTHERWISE NOTED)
8	2X10 JOISTS @ 12" O.C. SHOWN DASHED (PIER TO PIER) FOR AREAS WITH LIVE LOAD AT 100 PSF (TYP)
9	(2) 2X10 JOISTS WITH (2) 2X10 HEADERS AT THE CRAWLSPACE OPENING (32"X32"). SUPPORT HEADER WITH HANGERS AT THE DOUBLED JOIST. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS ON CRAWLSPACE ACCESS DOOR.

GRAPHIC SCALE(S)

1/4" =1'-0" 0' 2' 4' 8'

WALKER the GROUP ARCHITECTURE incorporated
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NORTH CAROLINA PROFESSIONAL 028643 09/12/25 ENGINEER SHANNON D. WEAVER

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SCO # 23-26839-01A

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No.	Date

Project Number 2318.NCFS
Date 09/12/25
Drawn SDW
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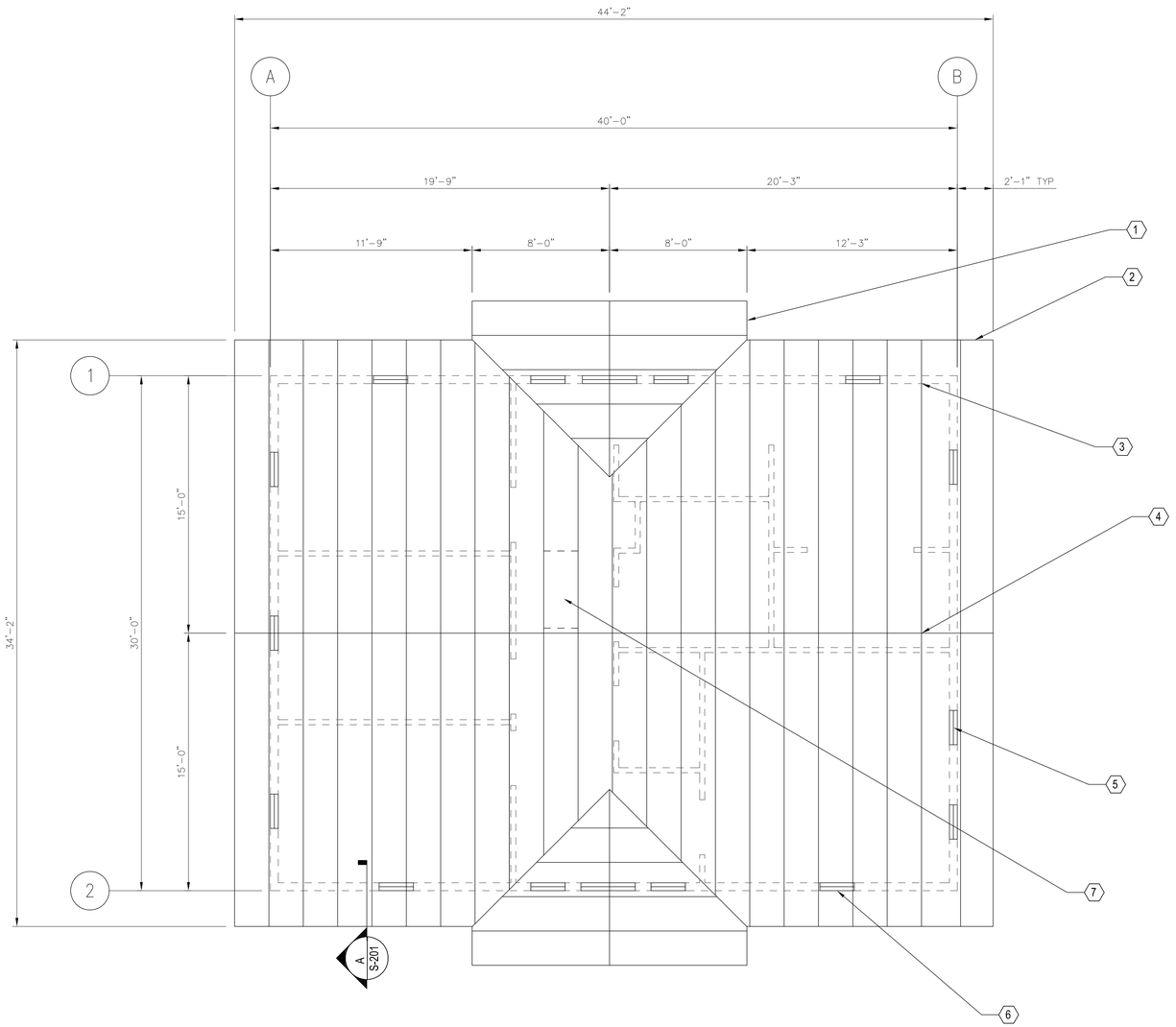
Scale AS NOTED
Drawing Title FIRST FLOOR FRAMING PLAN

Sheet Number 30 of 47
Drawing Number S-102



ROOF FRAMING PLAN

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

PLAN NORTH

GENERAL SHEET NOTES

1. SEE SHEET S-001 FOR ADDITIONAL STRUCTURAL NOTES.
2. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

(#) NEW WORK KEYNOTES

MARK	DESCRIPTION
1	OVERBUILT ROOF TRUSSES/CANTILEVERED TRUSS DESIGN BY OTHERS (TYP)
2	OVERHANG OUTLOOKER FRAMING DESIGN BY OTHERS (TYP)
3	ROOF TIE DOWNS AS SPECIFIED BY THE TRUSS MANUFACTURER; MINIMUM OF (3) ALTERNATIVE SUPPLIERS CITED (TYP)
4	ROOF TRUSS BY OTHERS (TYP)
5	GABLE END HEADERS: (3) PLY 2X6 HEADER (1) 2X6 JACK EACH END (1) KING EACH END (TYP - 6 LOCATIONS)
6	(3) PLY 2X6 HEADER (2) 2X6 JACKS EACH END (2) KINGS EACH END (TYP - UNLESS OTHERWISE NOTED)
7	ROOF TRUSSES ARE TO BE DESIGNED TO ACCOMMODATE A PULL DOWN ATTIC ACCESS; SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS.

GRAPHIC SCALE(S)

1/4" =1'-0" 0' 2' 4' 8'

WALKER the GROUP ARCHITECTURE incorporated
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New NC Forest Service County Office for Lenoir County

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NORTH CAROLINA PROFESSIONAL 028643 ENGINEER SHANNON D. WEAVER 09/12/25

Bid Documents

SCO # 23-26839-01A

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No.	Date

Project Number 2318.NCFS
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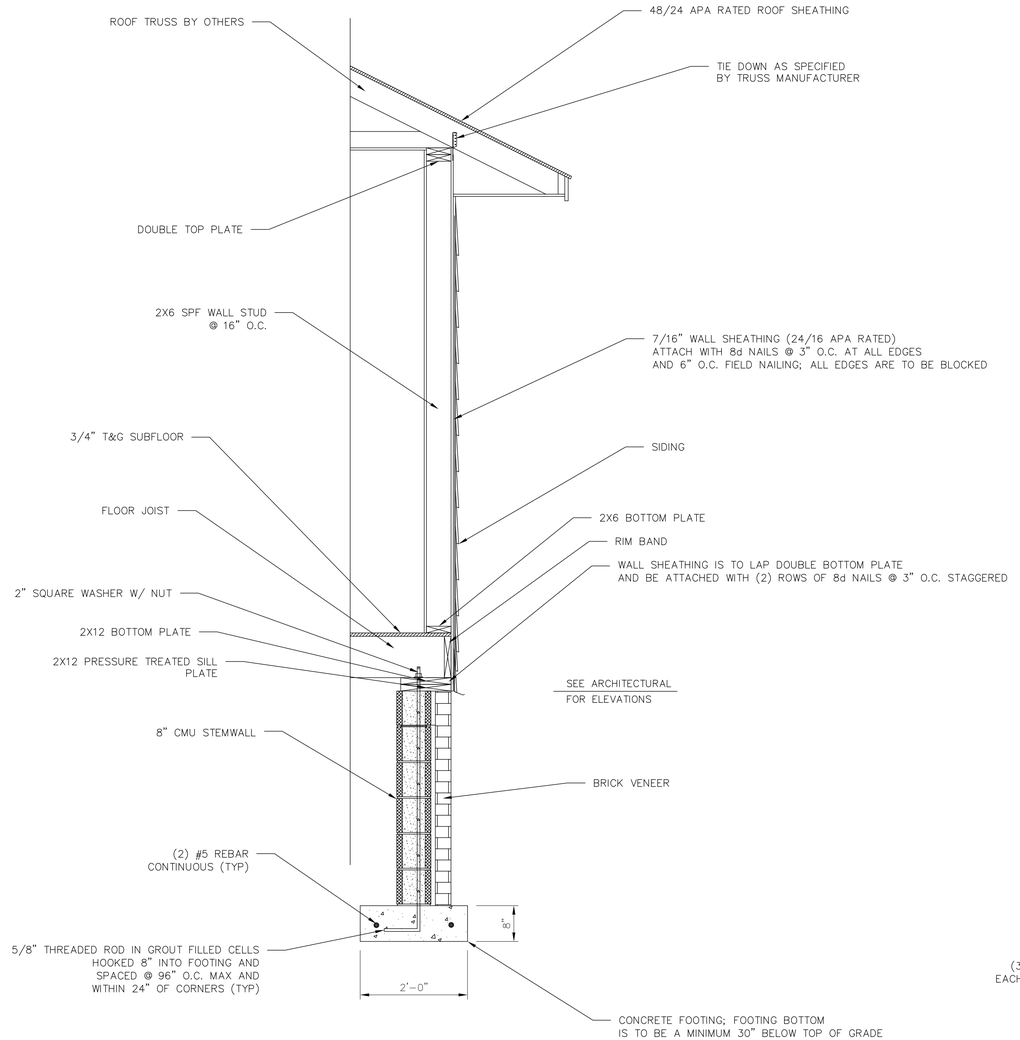
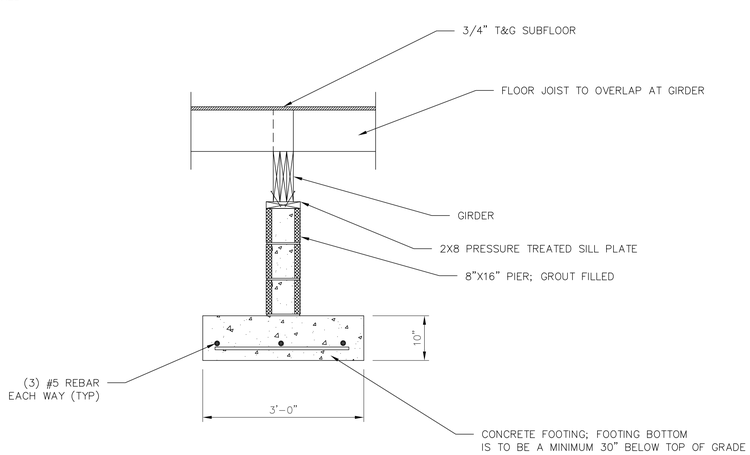
Scale AS NOTED
Drawing Title ROOF FRAMING PLAN

Sheet Number 31 of 47
Drawing Number S-103



A TYPICAL WALL SECTION
SCALE: 3/4" = 1'-0" (S-101)



B TYPICAL FOOTING SECTION
SCALE: 3/4" = 1'-0" (S-101)

GENERAL SHEET NOTES

1. SEE SHEET S-001 FOR ADDITIONAL STRUCTURAL NOTES.
2. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

GRAPHIC SCALE(S)

3/4" =1'-0" 0' 1' 2' 3'

WALKER the GROUP ARCHITECTURE incorporated
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SCO # 23-26839-01A

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No.	Date

Project Number 2318.NCFS
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Checked SDW
Scale AS NOTED
Drawing Title

TYPICAL SECTIONS

Sheet Number 32 of 47
Drawing Number S-201

PLUMBING LEGEND		
SYMBOL	ABBR	DESCRIPTION
	CW	COLD WATER LINE
	HW	HOT WATER LINE
	HWR	HOT WATER RETURN LINE
	W	SOIL OR WASTE LINE
	VT	VENT LINE
	AAV	AIR ADMITTANCE VALVE
	VTR	VENT THRU ROOF
	WCO	WALL CLEANOUT
	FCO	FLOOR CLEANOUT
	COG	CLEANOUT ON GRADE
	FD	ROUND FLOOR DRAIN
	HB	HOSE BIB/HYDRANT
	FHB	FROSTPROOF HOSE BIB/HYDRANT
	WHA	WATER ARRESTOR (PDI SIZE "A")
	–	GATE VALVE
	–	BALL VALVE
	BFP	BACKFLOW PREVENTER
	–	UNION
	–	CONCENTRIC REDUCER
	RP	RECIRCULATION PUMP
	–	FLOW DIRECTION ARROW
	–	FIXTURE MARK (SEE SCHEDULE)
	G.C.	GENERAL CONTRACTOR
	P.C.	PLUMBING CONTRACTOR
	M.C.	MECHANICAL CONTRACTOR
	E.C.	ELECTRICAL CONTRACTOR
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
	BFG	BELOW FINISHED GRADE

PLUMBING NOTES:

1. PLUMBING PLANS ARE INTENDED TO PROVIDE INFORMATION FOR INSTALLATION OF A COMPLETE PLUMBING SYSTEM. PROVIDE ALL ESSENTIAL LABOR, MATERIALS & DEVICES REQUIRED TO PRODUCE A COMPLETE AND OPERATING SYSTEM.
2. CONTRACTOR SHALL REVIEW & BECOME FAMILIAR WITH THE WORK OF ALL TRADES FOR PURPOSES OF COORDINATION AND ROUTING. CONTRACTOR SHALL PROVIDE REQUIRED PLANNING, COORDINATION AND SEQUENCING OF PLUMBING INSTALLATION WITH BUILDING COMPONENTS AND OTHER TRADES. THE EXACT LOCATION AND DETAILS OF EQUIPMENT MAY REQUIRE DEVIATIONS FROM PLANS AS THEY ARE DIAGRAMMATIC. DRAWINGS ALLOW FOR SHOWING SYMBOLS AND MULTIPLE PIPES TO PRINT CLEARLY. MATERIALS SHALL BE INSTALLED THAT ALLOW FOR EASY ACCESS, MAINTENANCE, AND OVERALL GOOD QUALITY OF WORK.
3. ALL WORK SHALL COMPLY WITH 2018 NC PLUMBING CODE & ADA CODES, AS WELL AS FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS/GUIDELINES. WORKMANSHIP SHALL MEET OR EXCEED INDUSTRY STANDARDS.
4. BEFORE SUBMITTING SHOP DRAWINGS TO ENGINEER FOR REVIEW, CONTRACTOR SHALL REVIEW AND COORDINATE SUBMITTALS (SHOP DRAWINGS) WITH OTHER SUBMITTALS AND WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. BY APPROVAL AND SUBMITTAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS TO THE ENGINEER, THE CONTRACTOR REPRESENTS THAT IT HAS DETERMINED AND VERIFIED AND CHECKED THE INFORMATION WITHIN THE SUBMITTAL WITH THE REQUIREMENTS OF THE WORK AND THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR AND SHALL DETERMINE AND VERIFY ALL FIELD MEASUREMENTS, QUANTITIES, DIMENSIONS, AND INSTALLATION REQUIREMENTS. PROVIDE WRITTEN NOTICE ON SUBMITTAL OF ANY DEVIATIONS. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR DEVIATIONS FROM CONTRACT DOCUMENTS REQUIREMENTS BY THE ARCHITECT'S APPROVAL OF SHOP DRAWINGS OR OTHER SUBMITTALS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ENGINEER IN WRITING OF SUCH DEVIATION AT THE TIME OF THE SUBMITTAL AND SUCH DEVIATION HAS BEEN APPROVED IN WRITING.
5. THE CITED EXAMPLES OF PRODUCTS ARE USED ONLY TO DENOTE THE QUALITY STANDARD OF PRODUCT DESIRED AND THEY DO NOT RESTRICT BIDDERS TO A SPECIFIC BRAND, MAKE, MANUFACTURER OR SPECIFIC NAME; THAT THEY ARE USED ONLY TO SET FORTH AND CONVEY TO BIDDERS THE GENERAL STYLE, TYPE, CHARACTER AND QUALITY OF PRODUCT DESIRED; AND THAT EQUIVALENT PRODUCTS WILL BE ACCEPTABLE.
6. PROTECT ALL NEW MATERIALS FROM THE WEATHER IN STORAGE TRAILERS OR PROVIDE SUITABLE COVERING.
7. COORDINATE CONNECTION OF PLUMBING SYSTEMS WITH SITE UTILITIES AND SERVICES. P.C. SHALL EXTEND WATER SUPPLY LINE 5–FEET OUTSIDE OF BUILDING AND EXTEND BUILDING DRAIN 10–FEET OUTSIDE OF BUILDING & PROVIDE 2–WAY CLEANOUT.
8. COORDINATE VENT THRU ROOF (VTR) LOCATIONS WITH OUTSIDE AIR INTAKES OF HVAC UNITS TO MAINTAIN A MINIMUM CLEARANCE OF 20 FEET. VTR SHALL BE LOCATED ON REAR OF PITCHED ROOF BUILDINGS.
9. CONTRACTOR SHALL COORDINATE LOCATION & TYPE OF VTR BOOTS WITH G.C.. CONTRACTOR SHALL FURNISH & INSTALL THE REQUIRED BOOTS. G.C. SHALL ENGAGE ROOFING CONTRACTOR TO ASSURE WEATHER–TIGHTNESS OF INSTALLATION. ANY EXPOSED PVC PIPING SHALL BE PAINTED WITH 2–COATS OF LATEX PAINT – COLOR SELECTED BY ARCHITECT.
10. COORDINATE INSTALLATION OF PLUMBING LINES WITH WALLS SO THAT ALL LINES ARE PLACED WITHIN WALLS DURING WALL CONSTRUCTION. CUTTING AND PATCHING OF WALLS IN PLACE IS NOT PERMITTED.
11. DRAIN, WASTE & VENT (DWV) PIPING SHALL BE ASTM D 2665, SOLID–WALL, SCHEDULE 40 PVC WITH SOLVENT–WELDED SOCKET TYPE FITTINGS (FOAM CORE PIPING IS NOT ACCEPTABLE). INSTALL PVC PIPE AND FITTINGS IN STRICT ACCORDANCE WITH THE INSTALLATION RECOMMENDATIONS OF THE PIPE AND FITTINGS MANUFACTURER, APPENDIX X1 OF ASTM D2265 AND FOR BURIED PIPE ASTM D2321. SUCH INSTRUCTIONS SHALL INCLUDE BUT ARE NOT LIMITED TO CUTTING, SOLVENT CEMENTING AND PRIMING, JOINTS, CONNECTIONS, TRANSITIONS, ALIGNMENT AND GRADE, TRENCHING, BEDDING, BACKFILL AND COMPACTION, SUPPORTS AND SPACING AND ALLOWANCE FOR THERMAL EXPANSION.
12. ABOVE GRADE/SLAB WATER PIPING SHALL BE ASTM B 88, HARD DRAWN, TYPE L COPPER WITH SOLDERED, BRAZED WROUGHT–COPPER FITTINGS OR VIEGA PROPRESS FITTINGS.
13. BELOW GRADE/SLAB WATER PIPING (INSIDE OF BUILDING) SHALL BE ASTM B 88, SOFT ANNEALED, TYPE K COPPER WITH SOLDERED OR BRAZED WROUGHT–COPPER FITTINGS. MINIMIZE JOINTS BELOW SLAB.
14. DOMESTIC WATER SERVICE PIPING: (SEE SITE PLANS).
15. PC SHALL PROVIDE WATER SERVICE PRESSURE REDUCING VALVE (PRV) IF SERVICE PRESSURE IS FOUND TO BE GREATER THAN 60 PSI. PRV SHALL BE HIGH CAPACITY TYPE. SEE DETAIL FOR LOCATION. (SET INITIAL PRESSURE AT 60 PSI).
16. WATER PIPE & FITTINGS AND LEAD FREE SOLDER & FLUX SHALL BE IN ACCORDANCE WITH NC PLUMBING CODE SECTION 605.
17. INDIVIDUAL SUPPLY AND DRAIN CONNECTIONS SIZES ARE NOT INDICATED ON PLANS FOR CLARITY. SIZE EACH TO SUIT RESPECTIVE FIXTURE.
18. WATER PIPING ON OUTSIDE WALLS AND IN CEILING SHALL BE LOCATED BETWEEN BUILDING INSULATION AND CONDITIONED SPACE.
19. PROVIDE SHUTOFF VALVES AT EACH MAIN BRANCH LINE. VALVES SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION. PROVIDE CEILING ACCESS DOORS WHERE REQUIRED TO ACCESS SERVICEABLE VALVES LOCATED ABOVE GYPBOARD CEILINGS.
20. UNLESS NOTED OTHERWISE ALL VALVES SHALL BE FULL PORT BRONZE OR BRASS BALL VALVES WITH THREADED OR SWEAT CONNECTIONS AS APPLICABLE TO THE CONNECTING PIPING.
21. PROTECT COPPER PIPING FROM DIRECT CONTACT WITH MASONRY OR DISSIMILAR METAL. HANGERS, SUPPORTS, ANCHORS AND CLIPS SHALL BE COPPER PLATED OR PROVIDED WITH ELECTROLYTIC ISOLATION MATERIAL ON COPPER PIPING. ALL OTHER HANGERS AND SUPPORTS SHALL BE PAINTED OR GALVANIZED. PIPING PASSING THROUGH CONCRETE/MASONRY WALLS OR FLOORS SHALL BE PROTECTED AGAINST EXTERNAL CORROSION BY PROTECTIVE SHEATHING OR WRAPPING.
22. INSTALL SCHEDULE 80 PVC OR DUCTILE IRON PIPE SLEEVE TWO SIZES LARGER AT PENETRATIONS THROUGH OR UNDER FOOTINGS OR FOUNDATION WALLS. SEAL SLEEVE TIGHT TO FOUNDATION WALL.
23. PROVIDE MECHANICAL WATER HAMMER ARRESTORS AS SHOWN ON PLANS, WATER RISER, OR AS REQUIRED BY SYSTEM.
24. PROVIDE INSULATION EQUAL TO MCGUIRE PROWRAP ON P–TRAP ASSEMBLIES AND HOT & COLD WATER PIPING FOR LAVATORIES WITH EXPOSED PIPING.
25. VERIFY FINAL LOCATIONS FOR ROUGH–INS WITH FIELD MEASUREMENTS AND WITH THE REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE CONNECTED.
26. INSTALL PLUMBING FIXTURES AND EQUIPMENT LEVEL & PLUMB. ROUTE PIPING PARALLEL & PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS. INSTALL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE & REPAIR IN ACCORDANCE WITH MFG'S WRITTEN INSTALLATION INSTRUCTIONS AS WELL AS SPECIFIC INSTRUCTIONS ON PLANS.
27. ALL FIXTURES & EXPOSED SURFACES SHALL BE WASHED & CLEANED AND PAINTED SURFACES SHALL BE TOUCHED UP TO MATCH FACTORY APPLIED FINISHES.
28. DWV AND WATER DISTRIBUTION PIPING SHALL BE TESTED IN ACCORDANCE WITH NC PLUMBING CODE SECTION 312.
29. POTABLE WATER PIPING SHALL BE PURGED AND DISINFECTED. FLUSH SYSTEM WITH CLEAN, POTABLE WATER. ISOLATE AND FILL SYSTEM WITH WATER/CHLORINE SOLUTION WITH AT LEAST 200 PPM OF CHLORINE. ALLOW TO STAND FOR THREE HOURS. FLUSH SYSTEM WITH CLEAN, POTABLE WATER UNTIL CHLORINE SOLUTION IS REMOVED. SUBMIT WATER SAMPLE REPORT TO AUTHORITY HAVING JURISDICTION.
30. GUARANTEE ALL EQUIPMENT, MATERIALS AND INSTALLATION FREE OF DEFECTS FOR A PERIOD OF 1–YEAR AFTER RECEIVING CERTIFICATE OF OCCUPANCY.

WALKER GROUP ARCHITECTURE

EnTech ENGINEERING
P.O. BOX 11527 NC LIC #: C–1132
GOLDSBORO, NC 27532
TEL: (919) 778–9064

PROJECT NO. 224007 | PROJECT MGR. D. HAM | DRAWN BY D. HILL

NORTH CAROLINA PROFESSIONAL SEAL 31466 ENGINEER JAMES D. HAM
9/12/25

New NC Forest Service County Office for Lenoir County

2208 ROBINSON ROAD KINSTON, NC 28504

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SCO# 23-26839-01A

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No. Date

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Drawing Title

PLUMBING NOTES & LEGEND

Sheet Number 1 Of 6

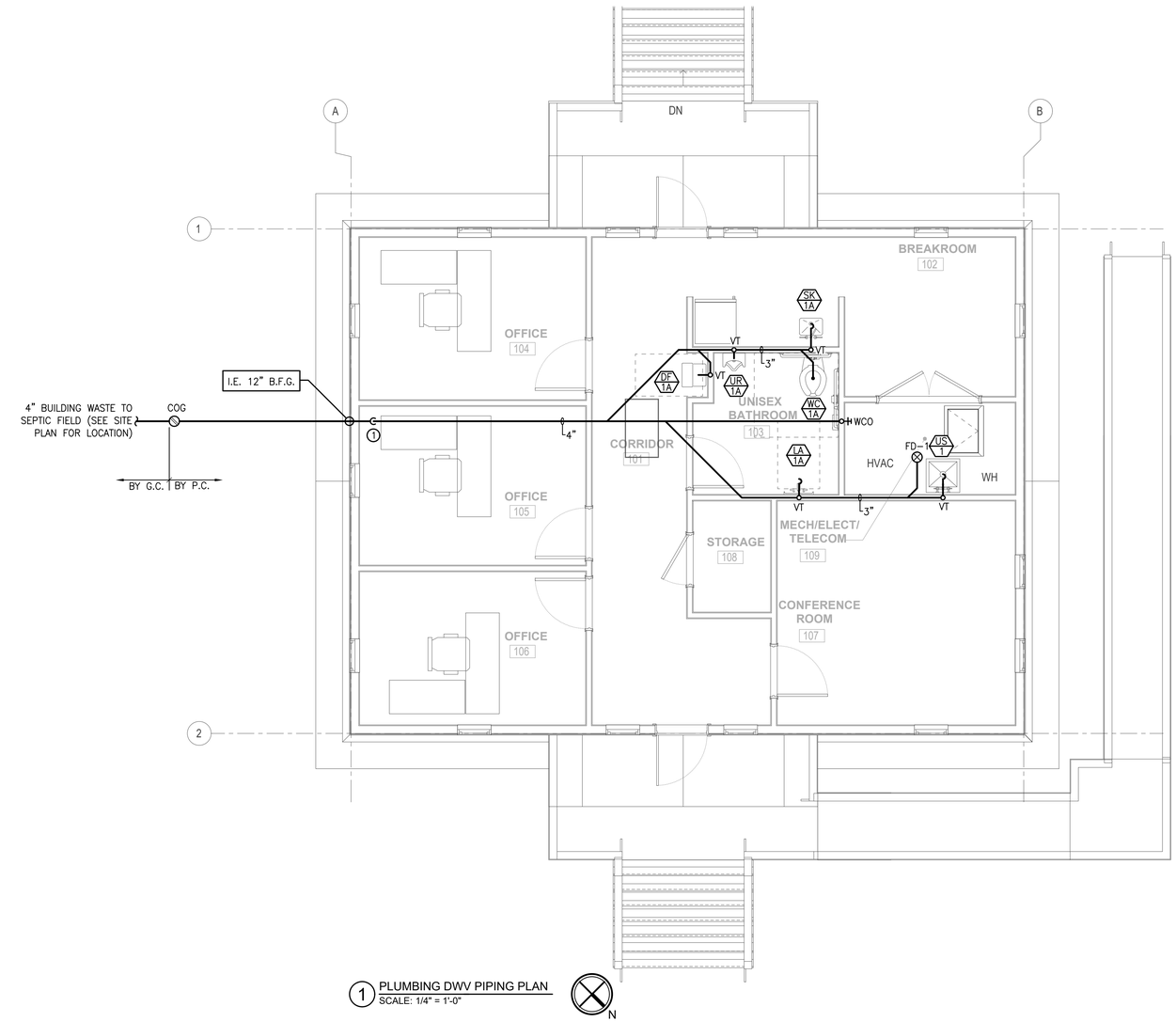
Drawing Number P-001

GENERAL NOTE:

1. ALL DRAIN & WATER PIPING SHALL BE LOCATED IN CRAWL SPACE.

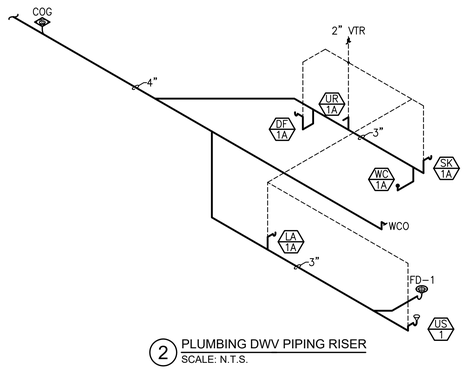
INSTALLATION KEYED NOTES "#":

1. PROVIDE 90 DEGREE FITTINGS SUCH THAT DRAIN PIPE IS A MINIMUM OF 12" BELOW GRADE AT THE FOUNDATION WALL. PIPE SHALL BE SLEEVED AT THE EXTERIOR WALL.



1 PLUMBING DWV PIPING PLAN
SCALE: 1/4" = 1'-0"

N



2 PLUMBING DWV PIPING RISER
SCALE: N.T.S.

WALKER GROUP ARCHITECTURE
incorporated
PO BOX 541, NEW BERN, NC 28563
252-636-8778

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PLUMBING PLANS

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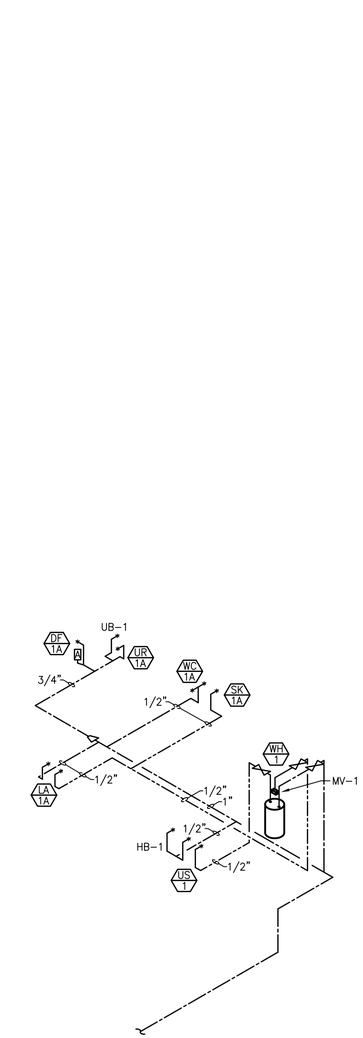
2 Of 6

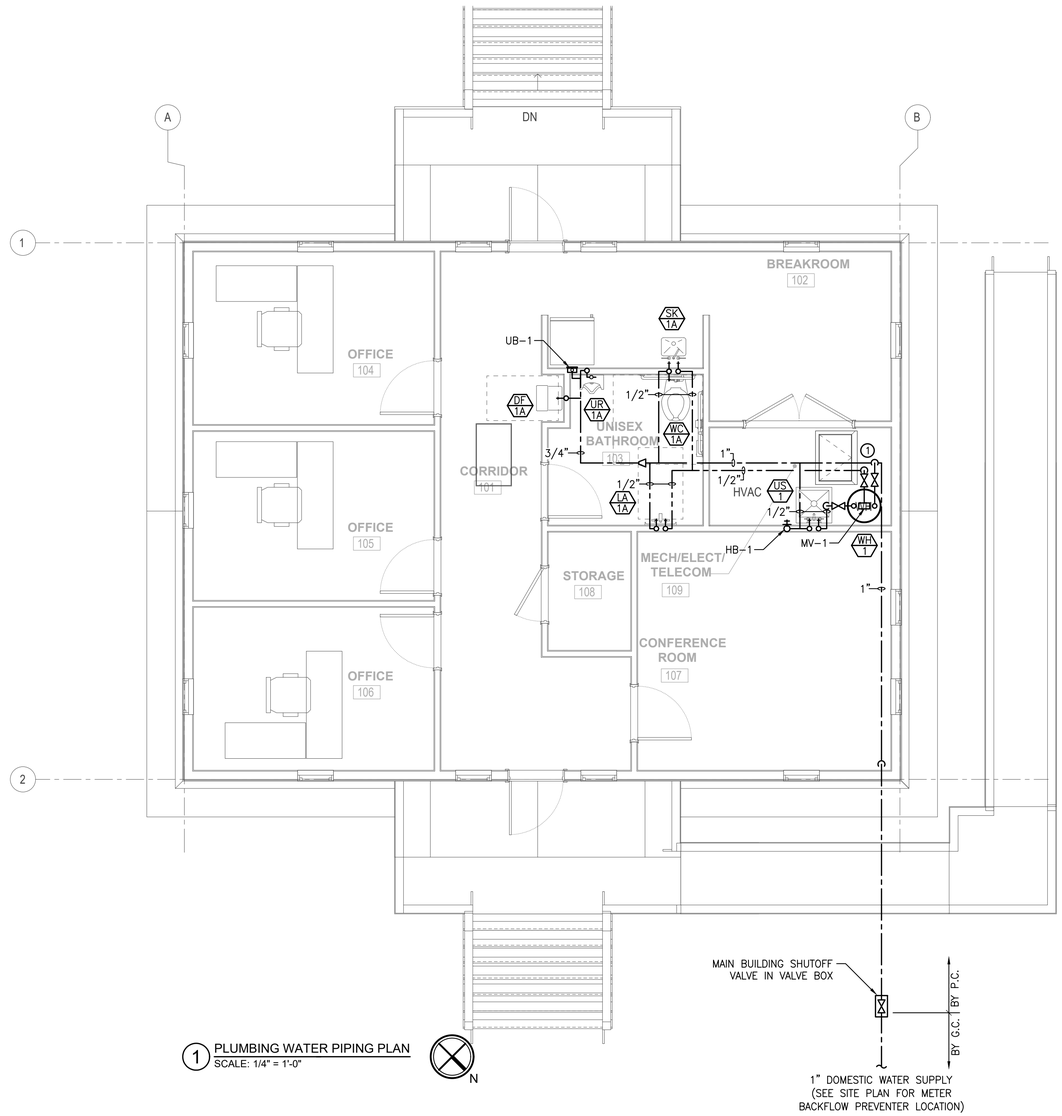
Drawing Number
P-101

INSTALLATION KEYED NOTES "#":

1. DOMESTIC HOT AND COLD WATER SHUTOFF VALVE LOCATED ABOVE WATER HEATER, NOT WITHIN CEILING.



2 PLUMBING WATER PIPING RISER
SCALE: N.T.S.



1 PLUMBING WATER PIPING PLAN
SCALE: 1/4" = 1'-0"

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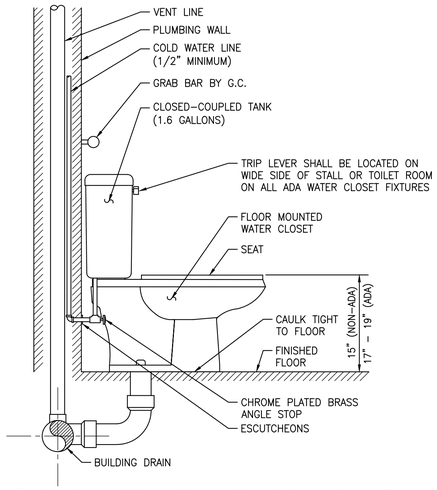
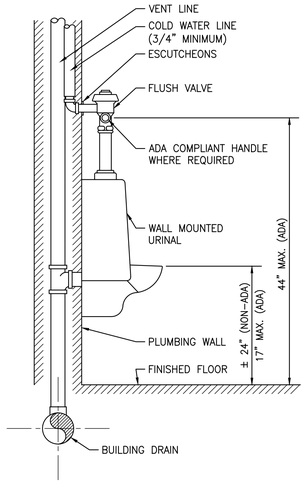
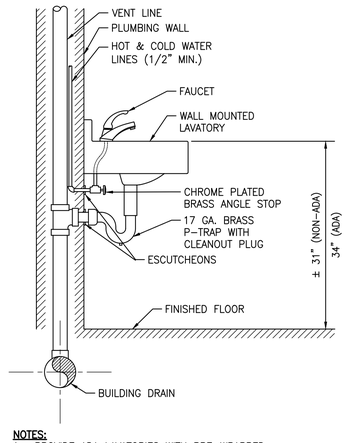


1 FLOOR MOUNTED WATER CLOSET WITH FLUSH TANK DETAIL
SCALE: N.T.S.

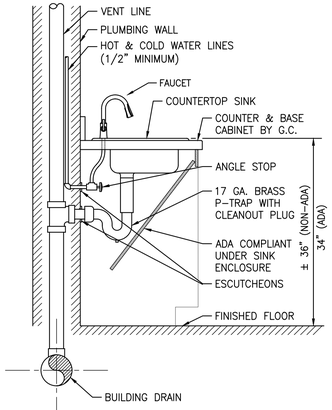


2 WALL MOUNTED URINAL DETAIL
SCALE: N.T.S.



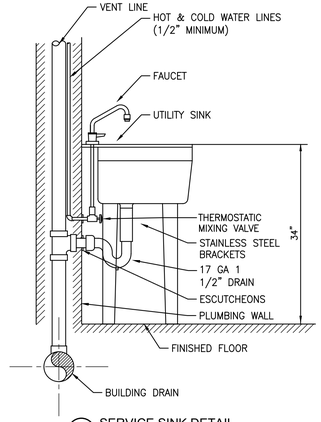
NOTES:
1. PROVIDE ADA LAVATORIES WITH PRE-WRAPPED ANTI-MICROBIAL MOLDED CLOSED CELL VINYL ON EXPOSED HOT & COLD WATER AND DRAIN LINES.
2. WATER SUPPLY INLETS AND RISERS SHALL BE BRASS OR COPPER (CHROME PLATED WHERE EXPOSED TO VIEW).

3 WALL MOUNTED LAVATORY DETAIL
SCALE: N.T.S.

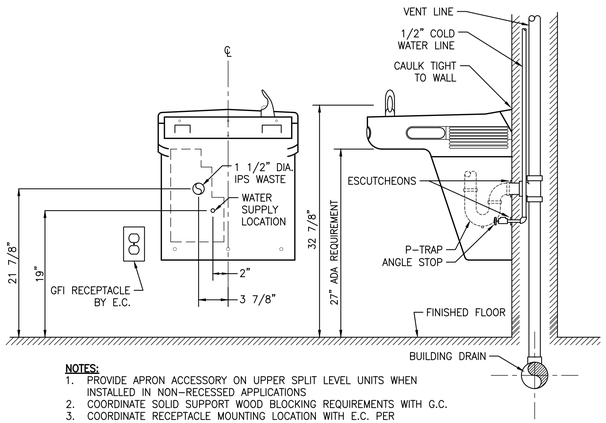


NOTES:
1. G.C. SHALL PROVIDE ADA COMPLIANT UNDERSPACE SINK PROTECTIVE ENCLOSURES FOR ALL ADA SINKS.
2. WATER SUPPLY INLETS AND RISERS SHALL BE BRASS OR COPPER (CHROME PLATED WHERE EXPOSED TO VIEW.)

4 COUNTERTOP MOUNTED SINK DETAIL
SCALE: N.T.S.

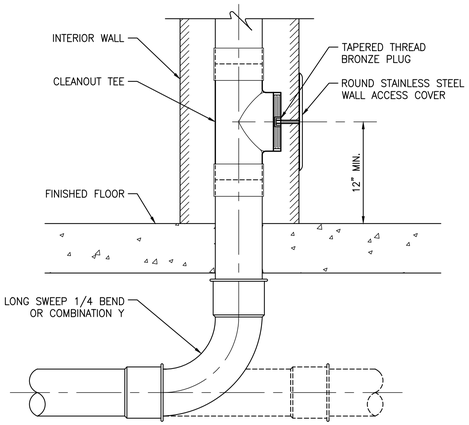


5 SERVICE SINK DETAIL
SCALE: N.T.S.

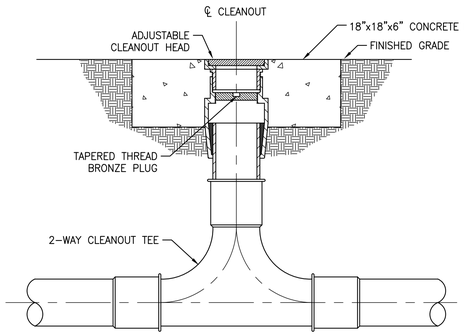


NOTES:
1. PROVIDE APRON ACCESSORY ON UPPER SPLIT LEVEL UNITS WHEN INSTALLED IN NON-RECESSED APPLICATIONS
2. COORDINATE SOLID SUPPORT WOOD BLOCKING REQUIREMENTS WITH G.C.
3. COORDINATE RECEPTACLE MOUNTING LOCATION WITH E.C. PER INSTALLATION INSTRUCTIONS.

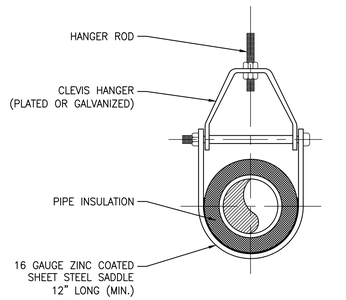
6 WALL MOUNTED ELECTRIC WATER COOLER DETAIL
SCALE: N.T.S.



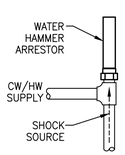
7 WALL CLEANOUT WITH SWEEP BEND OR COMBINATION Y DETAIL
SCALE: N.T.S.



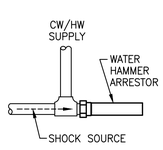
8 CLEANOUT ON GRADE WITH 2-WAY TEE DETAIL
SCALE: N.T.S.



9 CLEVIS PIPE HANGER DETAIL
SCALE: N.T.S.



VERTICAL INSTALLATION



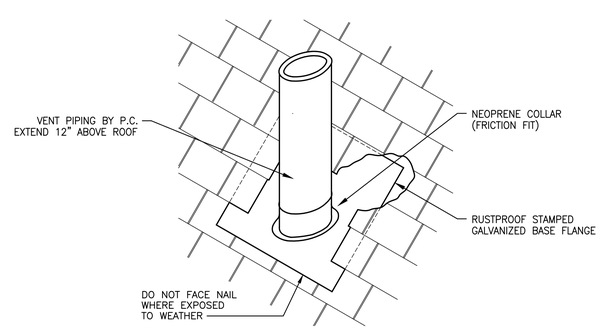
HORIZONTAL INSTALLATION

WATER HAMMER SIZING TABLE		
SIZE	**FIXTURE UNITS**	***PDI UNITS**
1/2"	1-11	A
3/4"	12-32	B
1"	33-60	C
1 1/4"	61-113	D
1 1/2"	114-154	E
2"	155-330	F

***PLUMBING & DRAINAGE INSTITUTE STANDARD PDI-WH201.**

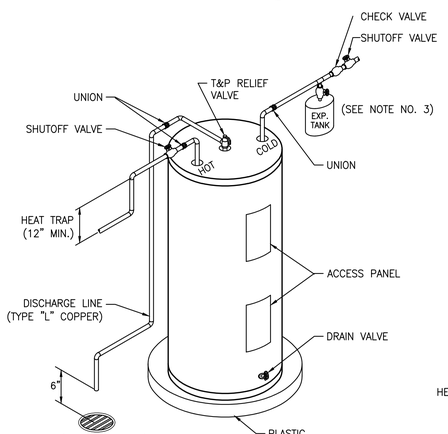
NOTE: SEE PLANS FOR LOCATIONS OF WATER HAMMER ARRESTORS.

10 WATER HAMMER ARRESTOR DETAIL
SCALE: N.T.S.



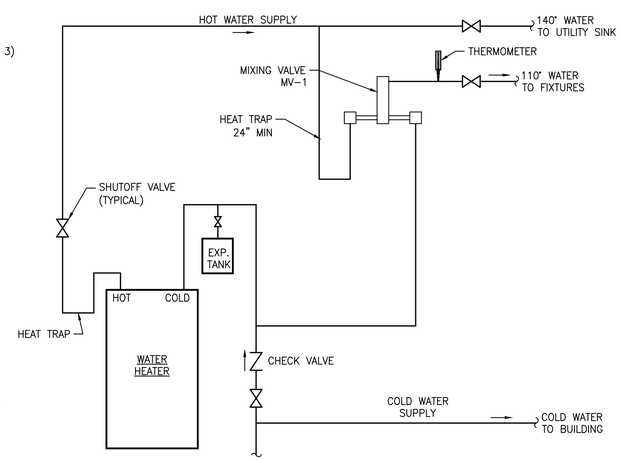
NOTES:
1. BASE AND COLLAR SHALL BE PROVIDED BY P.C.
2. P.C. SHALL COORDINATE WITH ROOFING SUBCONTRACTOR.
3. EXPOSED PIPING SHALL BE PAINTED WITH 2-COATS OF ENAMEL PAINT - COLOR SELECTED BY ARCHITECT.

11 VENT THRU ROOF (SHINGLE) DETAIL
SCALE: N.T.S.



NOTES:
1. DISCHARGE LINE FROM RELIEF VALVE SHALL BE PIPED FULL-SIZE TO DRAIN
2. - TERMINATE 6 INCHES ABOVE UTILITY SINK OR FLOOR DRAIN.
3. DISCHARGE LINE SHALL BE CLAMPED OR OTHERWISE SUPPORTED IN ACCORDANCE WITH NCPC TABLE 308.5 OR SUPPORT WITHIN 12 INCHES OF DISCHARGE.
4. PROVIDE PRE-CHARGED DIAPHRAGM EXPANSION TANK ON SYSTEMS HAVING CHECK VALVES OR BACKFLOW PREVENTERS ON SUPPLY WATER LINE. TANK SHALL BE 5 GALLON CAPACITY U.N.O. IN SPECIALTIES SCHEDULE AND APPROVED FOR POTABLE WATER SYSTEMS.

12 FLOOR MOUNTED ELECTRIC WATER HEATER DETAIL
SCALE: N.T.S.



13 WATER HEATER MIXING VALVE DIAGRAM
SCALE: N.T.S.

WALKER GROUP ARCHITECTURE

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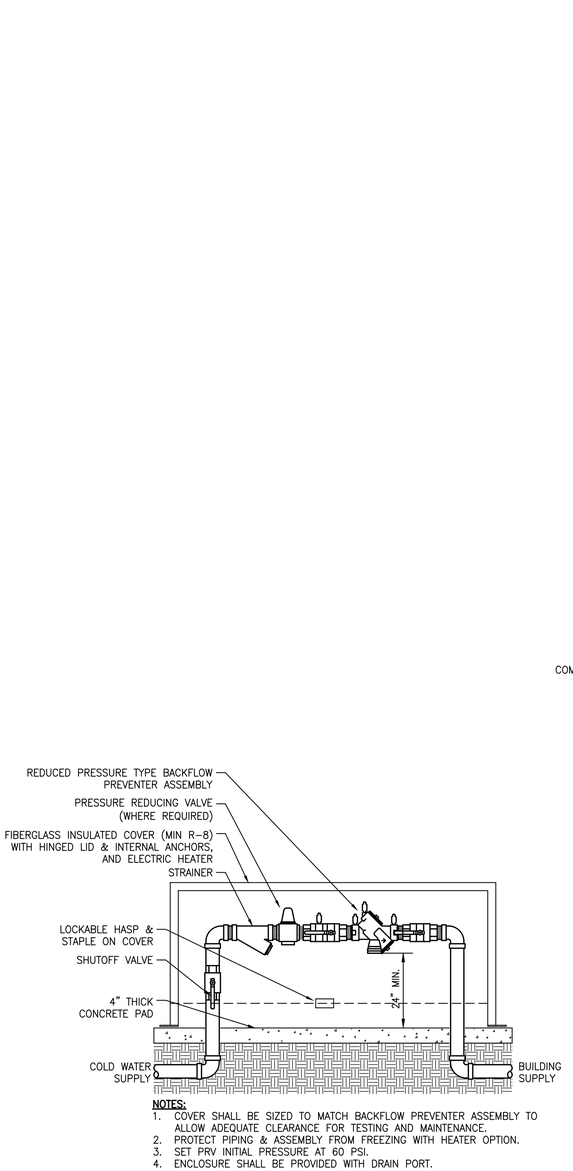
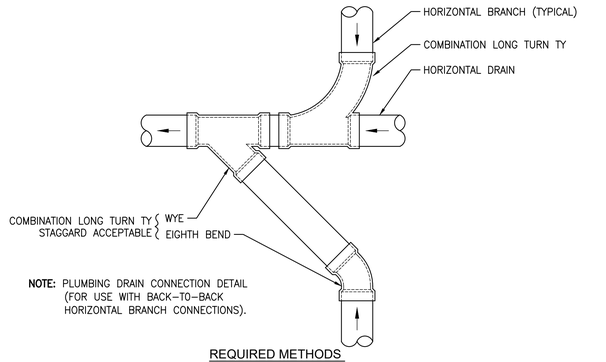


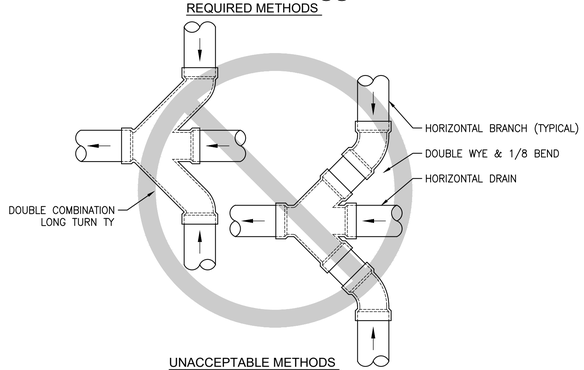
NOTES:
1. COVER SHALL BE SIZED TO MATCH BACKFLOW PREVENTER ASSEMBLY TO ALLOW ADEQUATE CLEARANCE FOR TESTING AND MAINTENANCE.
2. PROTECT PIPING & ASSEMBLY FROM FREEZING WITH HEATER OPTION.
3. SET PRV INITIAL PRESSURE AT 60 PSI.
4. ENCLOSURE SHALL BE PROVIDED WITH DRAIN PORT.

1 RPZ BACKFLOW PREVENTER DETAIL
SCALE: N.T.S.



NOTE: PLUMBING DRAIN CONNECTION DETAIL (FOR USE WITH BACK-TO-BACK HORIZONTAL BRANCH CONNECTIONS).

REQUIRED METHODS

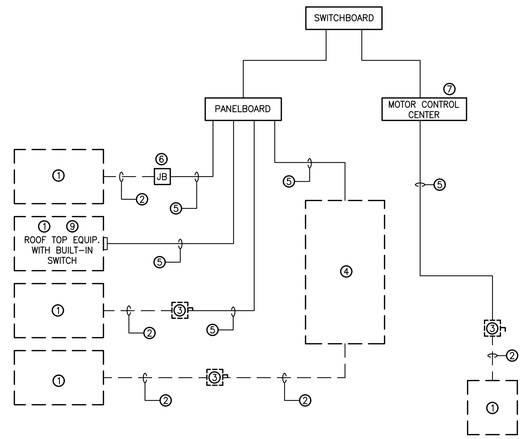


UNACCEPTABLE METHODS

2 HORIZONTAL DRAIN CONNECTION DETAIL
SCALE: N.T.S.

ELECTRICAL NOTES:

1. EQUIPMENT OF TRADES OTHER THAN ELECTRICAL.
2. CONDUIT AND WIRING BY HVAC, PLUMBING CONTRACTOR, OR OTHER TRADES.
3. IF AN ADDITIONAL DISCONNECT IS REQUIRED BY NEC, IT SHALL BE PROVIDED AND INSTALLED BY THE EQUIPMENT CONTRACTOR.
4. A COMBINATION STARTER OR VFD MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER, LOCATE ADJACENT TO EQUIPMENT.
5. FEEDER CIRCUIT WIRING AND CONDUIT IN ELECTRICAL WORK, SEE PANELBOARD SCHEDULES FOR WIRE AND BREAKER SIZES.
6. JUNCTION BOX MAY BE SHOWN ON ELECTRICAL PLANS FOR SOME EQUIPMENT. IF NO STARTER OR DISCONNECT IS SUPPLIED, A JUNCTION BOX SHALL BE INSTALLED ADJACENT TO EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LINE SIDE WIRING TO THE JUNCTION BOX. LOAD SIDE WIRING WILL BE PROVIDED BY MECHANICAL CONTRACTOR OR OTHER TRADES.
7. PROJECTS UTILIZING AN MCC, THE STARTER, CB OR VFD IN THE MCC ARE PROVIDED BY THE ELECTRICAL CONTRACTOR.
8. IN ALL CASES THE EQUIPMENT CONTRACTOR SHALL MAKE FINAL CONNECTIONS, START UP, AND TEST EQUIPMENT.
9. IF THE ROOF TOP FAN IS NOT PROVIDED WITH BUILT IN SWITCH, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A DISCONNECT SWITCH.
10. IN A SINGLE PRIME CONTRACT, IT IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR TO COORDINATE BETWEEN THE ELECTRICAL AND THE OTHER TRADES.



3 ELECTRICAL COORDINATION
SCALE: N.T.S.

WALKER GROUP ARCHITECTURE

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EQUAL MANUFACTURERS

DESCRIPTION	SPECIFIED MANUFACTURER	ACCEPTABLE SUBSTITUTIONS
WATER CLOSETS	AMERICAN STANDARD	CRANE, KOHLER, MANSFIELD
URINALS	AMERICAN STANDARD	CRANE, KOHLER, ELJER
FLUSH VALVES	SLOAN	ZURN
LAVATORIES	AMERICAN STANDARD	CRANE, KOHLER
STAINLESS STEEL SINKS	JUST	ELKAY, KOHLER, MOEN
MOP SINKS	FIAT	ACORN, STERN WILLIAMS
DRINKING FOUNTAINS	OASIS	ACORN, ELKAY, SUNROCK, HAWS
FAUCETS	DELTA	BRADLEY, CHICAGO, KOHLER, MOEN
WATER HEATERS	STATE	RHEEM, A.O. SMITH, CEC
DRAINS & CLEANOUTS	ZURN	JOSAM, JR SMITH

NOTE: SPECIFIED PRODUCTS INDICATE QUALITY AND OPTIONS REQUIRED FOR THIS PROJECT. EQUAL PRODUCTS/MANUFACTURERS ARE ACCEPTABLE.

PLUMBING FIXTURE SCHEDULE

FIX. NO.	DESCRIPTION	CW	HW	DRAIN	FAUCETS, VALVES & ACCESSORIES	NOTES
WC-1A	WATER CLOSET TANK TYPE, FLOOR MOUNTED, ELONGATED LOW-CONSUMPTION (1.6 GPF) FULLY GLAZED 2 1/8 MIN. BALL PASS TRAPWAY MEETS ASME A112.19.2M & 19.6M ADA (+/-17" RIM HEIGHT)	1/2"		3"	FIXTURE BY: AMERICAN STANDARD, SLOAN OR KOHLER SEAT: SELF-SUSTAINING WITH OPEN FRONT LESS COVER MATERIAL: VITREOUS CHINA COLOR: WHITE	TANK SHALL HAVE RIGHT HAND OR LEFT HAND TRIP LEVER AS REQUIRED TO MEET ADA (SEE DETAIL)
UR-1A	URINAL MANUAL FLUSH VALVE TYPE, WALL MOUNTED, WASHOUT ULTRA LOW-CONSUMPTION (0.5 GPF) MEETS ASME A112.19.2M & 19.6M ADA & NON-ADA APPLICATIONS	3/4"		1 1/2"	FIXTURE BY: AMERICAN STANDARD, SLOAN, KOHLER MANUAL FLUSH VALVE: EQUAL TO SLOAN REGAL 186-0.5-SF SUPPORT: EQUAL TO ZURN Z1222 MATERIAL: VITREOUS CHINA COLOR: WHITE	REFER TO ARCHITECTURAL DWGS FOR SPECIFIC MOUNTING HEIGHTS
LA-1A	WALL HUNG LAVATORY WHITE 20"X18" WITH BACK & SIDE SPLASH SHIELDS CHROME SINGLE LEVER FAUCET (0.5 GPM AERATOR) MEETS ASME A112.19.2M ADA & NON-ADA APPLICATIONS	3/8"	3/8"	1 1/4"	FIXTURE BY: AMERICAN STANDARD MURRO 0954.004EC (4" CENTERSET), SLOAN OR KOHLER FAUCET: EQUAL TO DELTA 523LF-HGMHDF (4" CENTERSET) STRAINER: MCGUIRE 155A MATERIAL: VITREOUS CHINA SINK AND KNEE SHROUD WALL CARRIER: ZURN Z1231 OR Z1231-D SHROUD: AMERICAN STANDARD 0059.020EC (VITREOUS CHINA)	- REFER TO ARCHITECTURAL DWGS FOR SPECIFIC MOUNTING HEIGHTS - PROVIDE WITH 3/8" BRAIDED STAINLESS LAVATORY RISERS (MCGUIRE SSLAV)
SK-1A	SINGLE BOWL SINK (22" X 21" X 5.5") 18 GAUGE TYPE 304, 18-8 STAINLESS STEEL SOUND DEADENING COATING SIDES AND BOTTOM SINGLE LEVER FAUCET WITH SPRAYER (1.5 GPM AERATOR) ADA COMPLIANT	1/2"	1/2"	1 1/2"	FIXTURE BY: ELKAY, JUST, KOHLER OR MOEN FAUCET: EQUAL TO DELTA 400LF-HDF STRAINER: MCGUIRE 151A RISER: 3/8" BRAIDED STAINLESS (MCGUIRE SSLAV)	LISTED SIZES INDICATE SIDE TO SIDE DIMENSION X FRONT TO BACK DIMENSION X DEPTH PROVIDE WITH REAR DRAIN
DF-1A	ELECTRIC WATER COOLER SINGLE LEVEL, WALL MOUNT ADA COMPLIANT	3/8"		1 1/4"	EQUAL TO ELKAY EZS8 BUBBLER: FLEXI-GUARD ANTI-MICROBIAL SAFETY TYPE CABINET FINISH: LIGHT GRAY GRANITE VINYL CLAD ELECTRICAL: 4 AMPS @ 120V/1PH SUPPORT: ZURN Z1225 WITH DURA-COAT	
US-1	MOP SINK FLOOR MOUNTED LAUNDRY TUB (23"Wx22"Lx14"D) WHITE MOLDED-STONE	1/2"	1/2"	1 1/2"	EQUAL TO FIAT FL-1 FAUCET: A-1 (DECK TYPE)	

PLUMBING SPECIALTIES SCHEDULE

MARK	DESCRIPTION	MANF.	REFERENCE MODEL NO.	NOTES
FCO	ADJUSTABLE FLOOR CLEANOUT WITH BRONZE PLUG	MIFAB	C1220-1-34B-P	SEE PLANS FOR SIZES, NICKEL BRONZE TOP
COG	CLEANOUT ON GRADE WITH BRONZE PLUG	MIFAB	C1220-1-34B-P	SEE PLANS FOR SIZES, NICKEL BRONZE TOP
WCO	WALL CLEANOUT WITH BRONZE PLUG & S.S. COVER	MIFAB	C1430-RD	SEE PLANS FOR SIZES
FD-1	AREA FLOOR DRAIN	MIFAB	F1100-C-5"-1-6-P (5" ROUND STRAINER)	
WHA	WATER HAMMER ARRESTOR	PPP	SWA (PDI SIZE)	
UB-1	UTILITY BOX - ICE MAKER	DATEY	39152	INCLUDES WATER HAMMER ARRESTOR
PMV-1	POINT-OF-USE MIXING VALVE (SETPOINT: 110°F)	BRADLEY	S59-4000BY (ASSE 1070 & COLD SIDE BYPASS)	3 GPM @ 15 PSI PRESSURE DROP
MV-1	THERMOSTATIC MIXING VALVE (SETPOINT: 110°F)	LEONARD	270-LF-SW-DT (1/2" INLET/OUTLET)	7.5 GPM @ 20 PSI PRESSURE DROP
EXP	WATER HEATER EXPANSION TANK	A.O. SMITH	PMC-2 (2 GALLON)	
PRV	HIGH CAPACITY WATER PRESSURE REDUCING VALVE	WATTS	LF223S	SET PRESSURE AT 60 PSI
BFP-1	BACKFLOW PREVENTER (RPZ) - DOMESTIC WATER	WATTS	LF009M2QT-S-1"	PROVIDED WITH HEATED ENCLOSURE
FHB-1	FREEZELESS WALL FAUCET WITH BACKFLOW PROTECTION	WOODFORD	27	PROVIDE WITH METAL HANDLE (ASSE 1052)
HB-1	WALL FAUCET WITH ANTI-SIPHON PROTECTION (ASSE 1011)	WOODFORD	24 (CHROME)	PROVIDE WITH POLYCARBONATE HANDLE

ELECTRIC WATER HEATER SCHEDULE

MARK	SIZE	GPH	TEMP. RISE	KW	VOLT/PH	FLA	CW CONN.	HW CONN.	MANF.	REF. MODEL	OPERATING WEIGHT	SIZE HTxDIA
WH-1	30 GAL	23.0	80°F	4.5	208V/1ø	22.0	3/4"	3/4"	A.O. SMITH	DEL-30	350 LBS	31"x22"ø

NOTES:
1. SET OUTLET WATER TEMPERATURE AT 140°F.
2. PROVIDE WITH 3-YEAR TANK WARRANTY AND 1-YEAR PARTS WARRANTY.

LOAD/DEMAND TABLE

FIXTURE TYPE	QTY.	DRAIN FIXTURE UNITS		WATER SUPPLY FIXTURE UNITS				
		DRAIN	TOTAL	COLD	HOT	CW & HW	HOT TOTAL	SUPPLY TOTAL
WATER CLOSET (TANK)	1	4.0	4.0	5.0		5.0		5.0
URINAL (3/4" INLET)	1	2.0	2.0	5.0		5.0		5.0
LAVATORY (SMALL P.O.)	1	1.0	1.0	1.5	1.5	2.0	1.50	2.00
DRINKING FOUNTAIN	1	0.5	0.5	0.25		0.25		0.25
LAUNDRY TUB	1	2.0	2.0	1.5	1.5	2.0	1.50	2.00
KITCHEN SINK	1	2.0	2.0	1.5	1.5	2.0	1.50	2.00
TOTAL LOAD (FIXTURE UNITS)			11.50	TOTAL LOAD (FIXTURE UNITS)			4.50	16.25
				TOTAL DEMAND (GPM)			8.5	18.5
MINIMUM LINE SIZE			3"	MINIMUM LINE SIZE			3/4"	1"
APPLIED LINE SIZE			4"	APPLIED LINE SIZE			3/4"	1"

NOTES:
1. LINE SIZES SHOWN FOR TYPE "L" COPPER. PEX SIZES WILL INCREASE FROM PLAN SIZES.

PLUMBING PIPING INSULATION TABLE

SERVICE	LOCATION	MATERIAL TYPE	JACKET TYPE	PIPE SIZE	THICKNESS	REMARKS
DOMESTIC WATER	BUILDING ENVELOPE	PREFORMED GLASS FIBER	ASJ	COLD 1/2" OR LESS COLD 3/4" - 3" HOT 1 1/2" OR LESS HOT > 1 1/2" HW RECIRCULATION	1/2" 1" 1" 1.5" 1"	-

NOTES:
1. ALL PIPE HANGERS AND SUPPORTS ON COLD PIPING SHALL BE OF CLEVIS TYPE ON OUTSIDE OF INSULATION TO MAINTAIN VAPOR BARRIER.

WALKER GROUP ARCHITECTURE

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No.	Date

Project Number **23-26839-01** | Date **9/12/25**
Drawn | Checked

Scale **AS NOTED**

Drawing Title
PLUMBING SCHEDULES

Sheet Number 6 Of 6

Drawing Number
P-301

MECHANICAL NOTES:

1. MECHANICAL PLANS ARE INTENDED TO PROVIDE INFORMATION FOR INSTALLATION OF A COMPLETE OPERATING MECHANICAL SYSTEM. PROVIDE ALL ESSENTIAL LABOR, MATERIALS & DEVICES REQUIRED TO PRODUCE A COMPLETE AND OPERATING SYSTEM.

2. CONTRACTOR SHALL REVIEW & BECOME FAMILIAR WITH THE WORK OF ALL TRADES FOR PURPOSES OF COORDINATION AND ROUTING. CONTRACTOR SHALL PROVIDE REQUIRED PLANNING, COORDINATION AND SEQUENCING OF HVAC INSTALLATION WITH BUILDING COMPONENTS AND OTHER TRADES. THE EXACT LOCATION AND DETAILS OF EQUIPMENT MAY REQUIRE DEVIATIONS FROM PLANS AS THEY ARE DIAGRAMMATIC.

3. ALL WORK SHALL COMPLY WITH 2018 NC MECHANICAL CODE, LOCAL ORDINANCES, AS WELL AS FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS/GUIDELINES. WORKMANSHIP SHALL MEET OR EXCEED INDUSTRY STANDARDS.

4. PROVIDE PRODUCT SUBMITTALS FOR ALL EQUIPMENT INCLUDING EFFICIENCY, PERFORMANCE DATA, DIMENSIONAL DATA, FINISHES, ELECTRICAL REQUIREMENTS ETC. EQUIPMENT SHALL MEET THE PERFORMANCE, QUALITY AND INTENT OF SCHEDULED EQUIPMENT AND INCLUDE ALL OPTIONS AS LISTED IN SCHEDULES.

4. BEFORE SUBMITTING SHOP DRAWINGS TO ENGINEER FOR REVIEW, CONTRACTOR SHALL REVIEW AND COORDINATE SUBMITTALS (SHOP DRAWINGS) WITH OTHER SUBMITTALS AND WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. BY APPROVAL AND SUBMITTAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS TO THE ENGINEER, THE CONTRACTOR REPRESENTS THAT IT HAS DETERMINED AND VERIFIED AND CHECKED THE INFORMATION WITHIN THE SUBMITTAL WITH THE REQUIREMENTS OF THE WORK AND THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR AND SHALL DETERMINE AND VERIFY ALL FIELD MEASUREMENTS, QUANTITIES, DIMENSIONS, AND INSTALLATION REQUIREMENTS. PROVIDE WRITTEN NOTICE ON SUBMITTAL OF ANY DEVIATIONS. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR DEVIATIONS FROM CONTRACT DOCUMENTS REQUIREMENTS BY THE ARCHITECT'S APPROVAL OF SHOP DRAWINGS OR OTHER SUBMITTALS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ENGINEER IN WRITING OF SUCH DEVIATION AT THE TIME OF THE SUBMITTAL AND SUCH DEVIATION HAS BEEN APPROVED IN WRITING.

5. COORDINATE ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT WITH THE ELECTRICAL SUBCONTRACTOR. WHERE ELECTRICAL REQUIREMENTS OF EQUIPMENT PROVIDED DIFFERS FROM THE SCHEDULED EQUIPMENT THAT REQUIRE COST RELATED CHANGES IN THE ELECTRICAL, CONTACT THE ENGINEER.

6. THE CITED EXAMPLES OF PRODUCTS ARE USED ONLY TO DENOTE THE QUALITY STANDARD OF PRODUCT DESIRED AND THEY DO NOT RESTRICT BIDDERS TO A SPECIFIC BRAND, MAKE, MANUFACTURER OR SPECIFIC NAME; THAT THEY ARE USED ONLY TO SET FORTH AND CONVEY TO BIDDERS THE GENERAL STYLE, TYPE, CHARACTER AND QUALITY OF PRODUCT DESIRED; AND THAT EQUIVALENT PRODUCTS WILL BE ACCEPTABLE.

7. PROTECT ALL NEW MATERIALS FROM THE WEATHER IN STORAGE TRAILERS OR PROVIDE SUITABLE COVERING.

8. POWER WIRING, DISCONNECTS & STARTERS NOT FURNISHED WITH HVAC EQUIPMENT AND FINAL CONNECTIONS SHALL BE BY THE E.C.

9. CONTROL WIRING, RELAYS AND INTERLOCKING DEVICES SHALL BE PROVIDED BY THE M.C.

10. TEMPERATURE CONTROLS FOR EACH HEATING–COOLING SYSTEM SHALL CONSIST OF AN ELECTRONIC PROGRAMMABLE HEATING–COOLING THERMOSTAT WITH HEAT–OFF–COOL–AUTO SYSTEM SWITCH & AUTO–ON FAN SWITCH. MOUNT THERMOSTATS 48–INCHES A.F.F.

11. INSTALL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE & REPAIR IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AS WELL AS SPECIFIC INSTRUCTIONS ON PLANS. PROVIDE CLEARANCE AS RECOMMENDED BY THE MANUFACTURER

12. PROVIDE CONCRETE HOUSEKEEPING PADS FOR ALL GROUND & FLOOR MOUNTED EQUIPMENT. UNLESS NOTED OTHERWISE ALL PADS SHALL BE 4" THICK & 4" LARGER THAN EQUIPMENT ON ALL SIDES. PADS SHALL BE 3000 PSI CONCRETE WITH #4 REBAR 6" ON CENTER BOTH DIRECTIONS.

13. EQUIPMENT SHALL NOT BE USED FOR TEMPORARY HEATING AND COOLING AND SHALL NOT BE RUN EXCEPT FOR TESTING AND BALANCING UNTIL THE BUILDING IS DRIED IN, CLEAN AND ALL FINISHING WITHIN THE SPACE IS COMPLETE. OPERATING THE SYSTEM PRIOR TO HAVING A CLEAN BUILDING WILL REQUIRE THE SYSTEMS TO BE CLEANED TO LIKE NEW CONDITION.

14. CONTRACTOR SHALL BALANCE AIR SYSTEM OUTLETS TO QUANTITIES INDICATED WITHIN ±10% AS NOTED ON PLANS IN ACCORDANCE WITH PROCEDURES CONTAINED IN AABC OR SMACNA, AND PROVIDE CERTIFIED TYPE WRITTEN TAB REPORT WITH O&M MANUALS. SUPPLY, RETURN, AND EXHAUST FANS SHALL BE PLUS 10% OR MINUS 0%. AIR FLOW AND STATIC PRESSURE SHALL BE MEASURED AND RECORDED FOR ALL OUTLETS. TAB FIELD SUPERVISOR AND TECHNICIAN SHALL BE CERTIFIED BY AABC. REPORT ANY DEFICIENCIES DISCOVERED BEFORE OR DURING TAB PROCEDURES. VERIFY LEAKAGE AND PRESSURE TEST HAVE BEEN SATISFACTORILY COMPLETED.

15. ALL EQUIPMENT & SYSTEMS SHALL BE WASHED, MECHANICAL AREAS CLEANED AND PAINTED SURFACES TOUCHED UP TO MATCH FACTORY APPLIED FINISHES. AIR HANDLERS SHALL BE VACUUMED AND WIPED CLEAN ON THE INSIDE PRIOR TO TURNING THE PROJECT OVER TO THE OWNER. ENTIRE SYSTEMS INCLUDING DUCTWORK THAT HAVE NOT BEEN ADEQUATELY PROTECTED DURING INSTALLATION WILL REQUIRE ADDITIONAL CLEANING AT THE END OF THE PROJECT.

16. CONTRACTOR SHALL COVER EACH RETURN OPENING LOCATION & EACH AIR HANDLER FILTER RACK WITH MERV 8 PLEATED FILTER MEDIA BEFORE STARTUP OF MECHANICAL SYSTEMS. CONTRACTOR SHALL ALSO INSTALL A NEW SET OF MERV 8 PLEATED FILTERS AT EACH PERMANENT FILTER LOCATION BEFORE TURNING BUILDING OVER TO OWNER.

17. CONTRACTOR SHALL PROVIDE BUILDING OWNER WITH A COMPLETE OPERATING & MAINTENANCE MANUAL AS REQUIRED BY THE NC ENERGY CODE 503.2.9.2 INCLUDING EQUIPMENT BASIC DATA, CONTROL INFORMATION, ROUTINE MAINTENANCE ACTIONS AND SERVICE AGENCIES NAME, PHONE NUMBER & ADDRESS.

18. GUARANTEE ALL EQUIPMENT, MATERIALS AND INSTALLATION FREE OF DEFECTS FOR A PERIOD OF 1–YEAR AFTER RECEIVING CERTIFICATE OF OCCUPANCY. EXTENDED GUARANTEES ON EQUIPMENT SHALL BE AS PUBLISHED ON MANUFACTURER'S EXTENDED WARRANTIES.

DUCT SYSTEMS:

1. FABRICATE AND INSTALL DUCT PER SMACNA STANDARDS FOR 3–INCH WC UPSTREAM OF AIR TERMINALS AND 2–INCH WC FOR ALL OTHER DUCTWORK. FOR INTERIOR LOCATIONS, USE GALVANIZED METAL MINIMUM G–60 (26 GAUGE MINIMUM). SEAL ALL LONGITUDINAL AND TRAVERSE JOINTS AS REQUIRED BY CURRENT SMACNA AND ENERGY CODE STANDARDS FOR MINIMUM OF WC INDICATED ABOVE

2. WHERE RECTANGULAR DUCT IS INDICATED, RADIUS ELBOWS & TEES SHALL HAVE CENTERLINE RADIUS OF 1.5 X DUCT WIDTH. SQUARE ELBOWS SHALL INCLUDE TURNING VANES. ALL DUCT JOINTS, SEAMS & BRANCH TAKEOFFS SHALL BE SEALED AIR–TIGHT WITH DUCT SEALANT EQUAL TO HARDCAST IRON–GRIP. ROLLED FORM FLANGE TYPE JOINTS WITH GASKETS BOLTED CORNERS AND CLIPS MAY BE USED PROVIDING AN AIR TIGHT SEAL AND RE–INFORCING.

3. PRIOR TO FABRICATION, MECHANICAL CONTRACTOR SHALL FIELD VERIFY STRUCTURAL OBSTRUCTIONS & CEILING SPACE LIMITATIONS AND MAKE NECESSARY DUCT MODIFICATIONS INCLUDING CHANGING OF ASPECT RATIOS, ADDING OFFSETS, AND SHIFTING LOCATIONS. PROTECT DUCT BY STORING IN A CLEAN AND DRY ENVIRONMENT PRIOR TO INSTALLATION. COVER ENDS OF EXPOSED WORK AT THE END OF EVERY SHIFT.

4. FLEX DUCT SHALL BE FACTORY INSULATED, HAVE ACOUSTICAL INNER CORE AND HAVE METALIZED VAPOR BARRIER. SEAL FLEX TO HARD CONNECTIONS WITH MASTIC. BOTH ENDS SHALL BE SECURED WITH NYLON BANDS AND METALIZED DUCT TAPE PER MFG'S RECOMMENDATIONS AND IN ACCORDANCE WITH U.L. 181B. BEND RADIUS SHALL NOT BE LESS THAN ONE DUCT DIAMETER. PROVIDE "FLEXFLOW ELBOW" SUPPORT BY THERMAFLEX, OR EQUAL, AT EACH DIFFUSER. SUSPEND FLEXIBLE DUCTS WITH BANDS 1–1/2 INCHES WIDE OR WIDER AND SPACED A MAXIMUM OF 48 INCHES APART. MAXIMUM CENTERLINE SAG BETWEEN SUPPORTS SHALL NOT EXCEED 1/2 INCH PER 12 INCHES. DO NOT BEND DUCTS ACROSS SHARP CORNERS. AVOID CONTACT WITH METAL FIXTURES, CEILING GRIDS, WATER LINES, PIPES, OR CONDUITS.

5. RIGID ROUND AND RECTANGULAR DUCT SHALL BE EXTERNALLY INSULATED WITH 3/4 LB. DENSITY FIBERGLASS BLANKET WITH FSK VAPOR BARRIER. STAPLE AND SEAL ALL JOINTS WITH 3–INCH WIDE METALIZED DUCT TAPE EQUAL TO SHURFLEX SF–683.

6. PROVIDE 1/2–INCH, 1.5 LB. DENSITY ACOUSTICAL LINER AT EACH A/C UNIT SUPPLY AND RETURN CONNECTION FOR SOUND ATTENUATION. TERMINATE LINER AT 10–FT. FROM UNIT, AT FIRST ELBOW OR AS NOTED ON PLANS. LINER SHALL BE INSTALLED WITH PINS & ADHESIVE AS RECOMMENDED BY MFG. & SMACNA. DUCT SIZES ON PLANS ARE METAL DIMENSIONS AND INCLUDE ALLOWANCES FOR LINER. DUCT SHALL BE WRAPPED WITH INSULATION IN ADDITION TO ACOUSTICAL LINER.

7. INSULATE & SEAL ALL GRILLE & DIFFUSER NECKS TO MAINTAIN VAPOR BARRIER AND ELIMINATE CONDENSATION. PROVIDE SUPPLY DIFFUSERS WITH EITHER MOLDED FIBERGLASS BACK INSULATION OR A SEPARATE INSULATION BLANKET.

PIPE SYSTEMS:

1. PROVIDE SUBMITTALS FOR ALL PIPING SYSTEMS INCLUDING PIPE, FITTINGS, VALVES, HANGERS, BUILDING ATTACHMENTS, ETC.

2. ALL PIPING SHALL BE SUPPORTED & SECURED WITH SUITABLE HANGERS, STRAPS OR PIPE STANDS. SUPPORT WITH NO DROOPS OR SAGS. ALL HANGERS AND ATTACHMENTS SHALL BE PLATED, GALVANIZED OR PAINTED. PROVIDE ISOLATION ON PIPING OF DISSIMILAR MATERIALS.

3. CONDENSATE TRAPS FOR ALL AC UNITS SHALL BE SIZED AS RECOMMENDED BY UNIT MANUFACTURER'S. CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC ROUTED TO DRYWELL OR STORM DRAIN. INSULATE WITH FLEXIBLE ELASTOMERIC INSULATION. SEAL ALL JOINTS AND SEAMS TO PREVENT CONDENSATION.

4. REFRIGERANT PIPING SHALL BE TYPE ACR COPPER WITH SILVER SOLDERED JOINTS. INSTALL PER EQUIPMENT INSTALLATION INSTRUCTIONS. INSULATION SHALL BE FLEXIBLE ELASTOMERIC INSULATION. SEAL ALL JOINTS AND SEAMS TO PREVENT CONDENSATION. PROTECT EXTERIOR INSULATION FROM SOLAR DETERIORATION WITH UV COATING. ROUTE REFRIGERANT PIPING ABOVE CEILINGS AND WITHIN DUCT CHASES. PIPING TO PENETRATE ROOF ADJACENT TO CONDENSING UNIT.

HVAC LEGEND

24x12	RIGID RECTANGULAR DUCT
8"ø	RIGID ROUND DUCT
6"ø	FLEXIBLE DUCT
	90° ELBOW WITH TURNING VANES
	FLEXIBLE CONNECTION
MVD	MANUAL VOLUME DAMPER
	LAY–IN SUPPLY DIFFUSER
	LAY–IN RETURN/EXHAUST GRILLE
	ROOF CAP, INTAKE
	ROOF CAP, EXHAUST
	CEILING EXHAUST FAN
T	WALL T–STAT/SENSOR
B 200	AIR DISTRIBUTION MARK "B", 200 CFM
	EQUIPMENT MARK (SEE SCHEDULES)
	FLOW DIRECTION ARROW
----C-----	CONDENSATE PIPING
	REFRIGERANT PIPING
	UNION
	REDUCER

ABBREVIATIONS:

G.C.	GENERAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
ECM	ELECTRONICALLY COMMUTATED MICROPROCESSOR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
UNO	UNLESS NOTED OTHERWISE
BOD	BOTTOM OF DUCT
TOD	TOP OF DUCT

MECHANICAL ENERGY SUMMARY
MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE:

NC ENERGY CODE (2018) PRESCRIPTIVE ☒ PERFORMANCE ☐

ASHRAE 90.1 (2016) PRESCRIPTIVE ☐ PERFORMANCE ☐

THERMAL ZONE 4A

EXTERIOR DESIGN CONDITIONS

WINTER DRY BULB	24 °F
SUMMER DRY BULB	93 °F

INTERIOR DESIGN CONDITIONS

WINTER DRY BULB	74°F
SUMMER DRY BULB	75°F
RELATIVE HUMIDITY	50%

BUILDING HEATING LOAD 20.5 MBH

BUILDING COOLING LOAD 3 TONS

MECHANICAL CONDITIONING SYSTEM

UNITARY

DESCRIPTION OF UNIT	SPLIT SYSTEM HEAT PUMP
HEATING EFFICIENCY	8.5 HSPF
COOLING EFFICIENCY	15 SEER
HEAT OUTPUT OF UNIT	41 MBH
COOLING OUTPUT OF UNIT	3 TONS

LIST EQUIPMENT EFFICIENCIES SEE MECHANICAL SCHEDULES

WALKER GROUP ARCHITECTURE

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PROJECT NO. 224007 | PROJECT MGR. D. HAM | DRAWN BY D. HILL

NORTH CAROLINA PROFESSIONAL SEAL 31466 ENGINEER JAMES D. HAM 9/12/25

New NC Forest Service County Office for Lenoir County

2208 ROBINSON ROAD KINSTON, NC 28504

Bid Documents

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No.	Date

Project Number 23-26839-01 | Date 9/12/25

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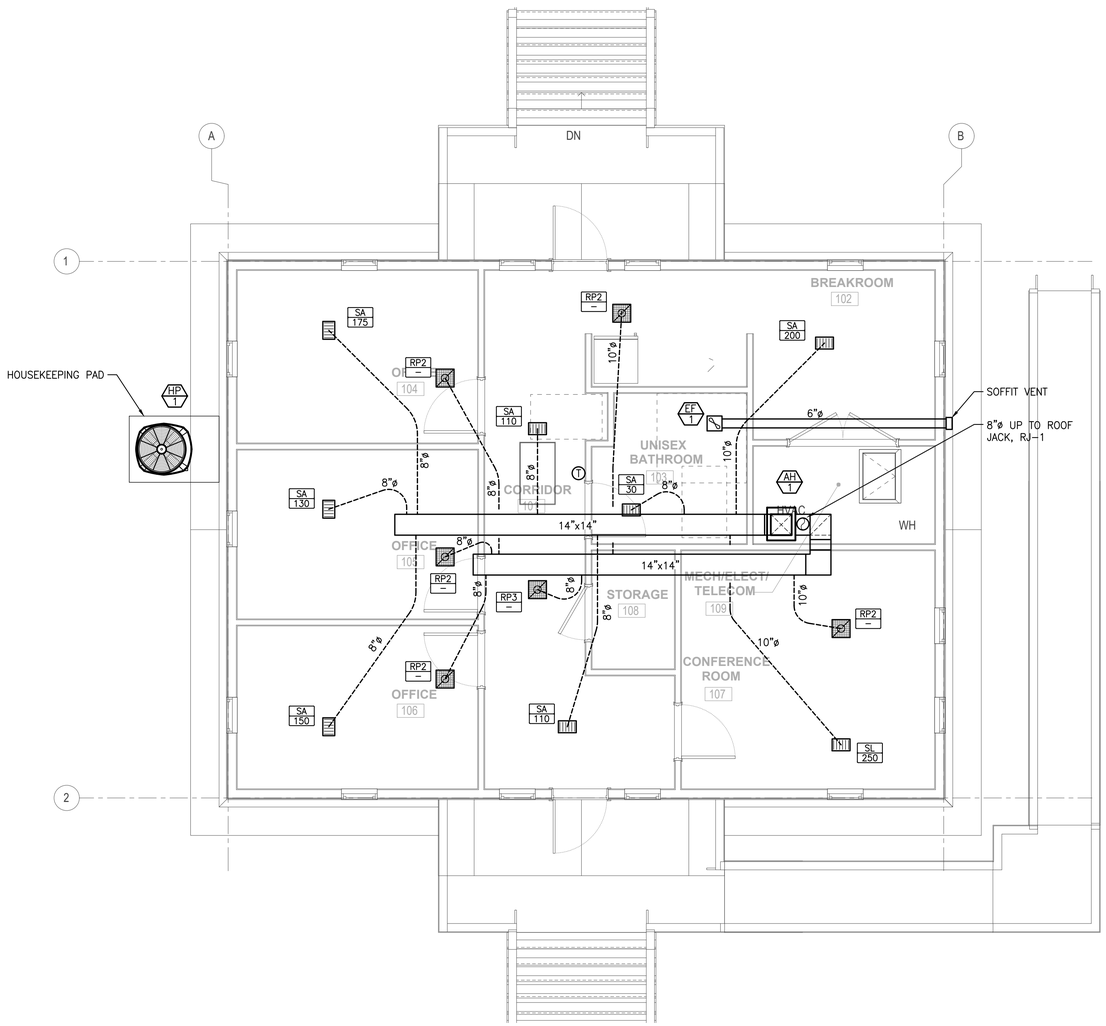
Scale AS NOTED

Drawing Title

MECHANICAL NOTES & LEGEND

Sheet Number 1 Of 4

Drawing Number M-001



1 MECHANICAL DUCT AND EQUIPMENT PLAN
SCALE: 1/4" = 1'-0"

N

GENERAL NOTE:

1. IT IS RECOMMENDED THE HVAC SYSTEM BE OPERATED ABOVE 68 DEGREES DURING COOLING TO MINIMIZE HUMIDITY WITHIN THE SPACE. THE THERMOSTAT SETTING FOR FAN OPERATION SHALL BE SET TO "AUTO".

Ventilation Sizing Summary Based on ASHRAE 62.1-2016
for Constant Volume Systems serving multiple spaces

Air Handler 1										
Space Name	Mult	Req SA	Area	Cfm/SF	People	OA cfm	Air Dist	OA	Breath Zone	Vent Eff
		Cfm	SF			/person	Effect	cfm	OA	
Bathroom	1	10	76	0	0	0.0	0.8	0	0	1.109
Break Rm 102	1	208	164	0.06	2	5.0	0.8	25	20	0.990
Conference 107	1	355	201	0.06	8	5.0	0.8	65	52	0.925
Corridor	1	216	218	0.06	0	0.0	0.8	16	13	1.033
Mech Rm 109	1	29	62	0.06	0	5.0	0.8	5	4	0.950
Office 104	1	134	141	0.06	1	5.0	0.8	17	13	0.983
Office 105	1	98	137	0.06	1	5.0	0.8	17	13	0.939
Office 106	1	137	133	0.06	1	5.0	0.8	16	13	0.991
Storage 108	1	13	35	0.06	0	5.0	0.8	3	2	0.909
		1200							130	0.909
							OA Required for unit			144
							OA CFM Provided			150

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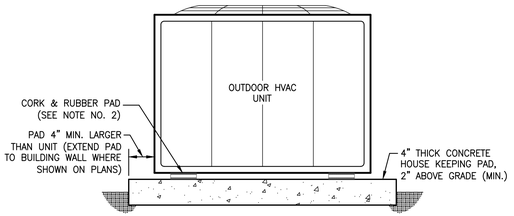
Drawing Title
MECHANICAL PLANS

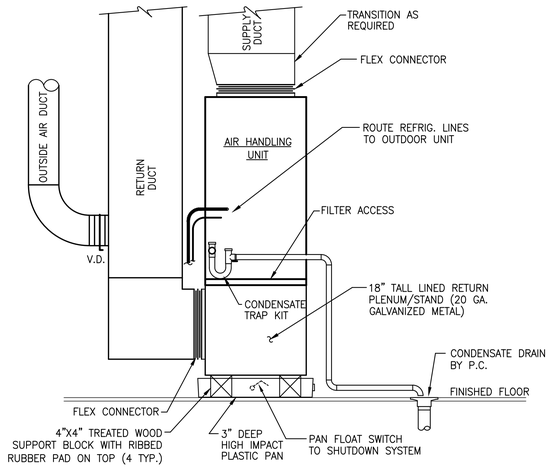
Sheet Number
2 Of 4

Drawing Number
M-101



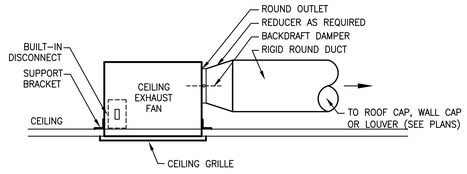
NOTES:
1. MAINTAIN EQUIPMENT MFG'S. RECOMMENDED CLEARANCES AND A MINIMUM OF 6" BEYOND SPLASH LINE OF ROOF OVERHANG.
2. CORK & RUBBER PADS ARE NOT REQUIRED WHEN UNITS HAVE INTEGRAL PLASTIC BASES.

1 OUTDOOR HVAC UNIT DETAIL
SCALE: N.T.S.



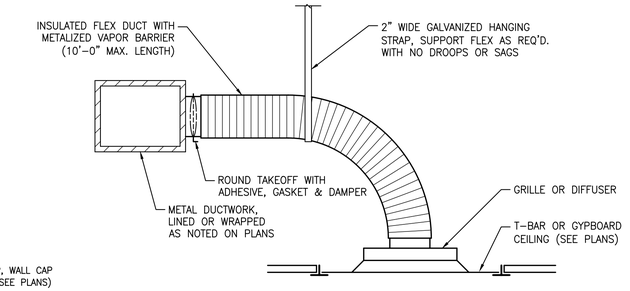
NOTES:
1. CONDENSATE TRAP KIT SHALL BE EQUAL TO EZ-TRAP EZT-113B

2 VERTICAL MOUNTED AIR HANDLING UNIT DETAIL
SCALE: N.T.S.



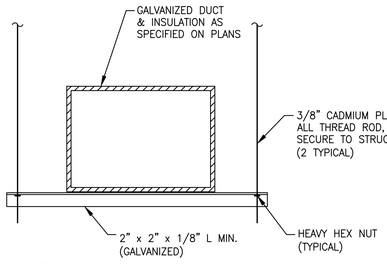
NOTE: E.C. SHALL PROVIDE GFCI BRANCH PROTECTED CIRCUIT WHEN LOCATED ABOVE TUB/SHOWER.

3 CEILING MOUNTED EXHAUST FAN DETAIL
SCALE: N.T.S.



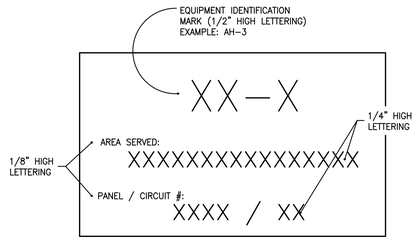
NOTES:
1. SECURE ENDS OF FLEX WITH NYLON BANDS AND 3" WIDE METALIZED DUCT TAPE.
2. INSULATE & SEAL ALL GRILLE & DIFFUSER NECKS TO MAINTAIN VAPOR BARRIER AND ELIMINATE CONDENSATE.

4 AIR DISTRIBUTION DETAIL
SCALE: N.T.S.



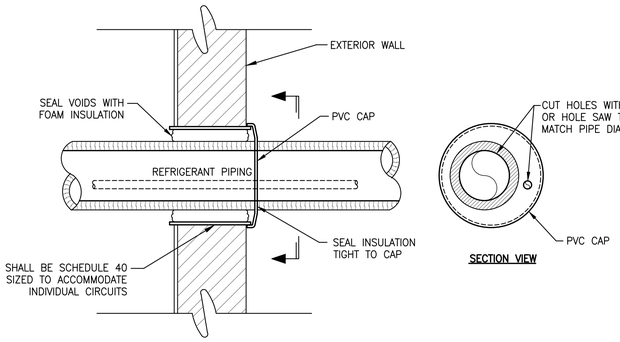
NOTES:
1. CONTRACTOR SHALL VERIFY ALLOWABLE LOAD FOR EACH TRAPEZE HANGER PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
2. CONTRACTOR MAY SUBSTITUTE STRAP HANGERS ON DUCTS LESS THAN 36" WIDE.

5 TRAPEZE HANGER DETAIL
SCALE: N.T.S.



NOTES:
1. PROVIDE LABEL FOR OUTDOOR UNITS, AIR HANDLERS AND WALL FANS.
2. EQUIPMENT LABELS SHALL BE 3"x5" PHENOLIC ENGRAVING STOCK WITH WHITE SURFACE AND BLACK LETTERING.
3. LAY-IN CEILING TILES BELOW AIR HANDLER SHALL HAVE AIR HANDLER ID'S. LABELS SHALL BE PRINTED IN BLACK WITH LABEL MAKER.

6 EQUIPMENT IDENTIFICATION LABELS DETAIL
SCALE: N.T.S.

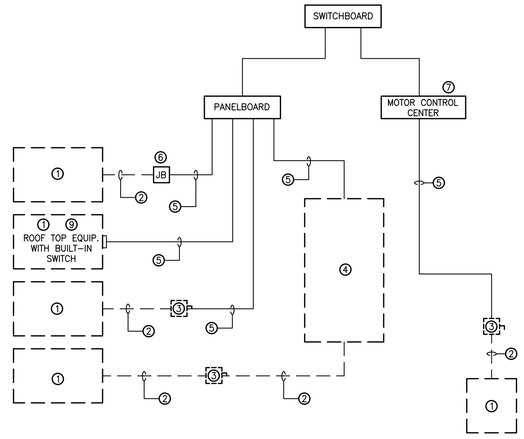


NOTE: SEAL ALL OPENINGS WITH CLEAR SILICON CAULKING WITH UV PROTECTION.

7 REFRIGERANT PIPE PENETRATION (EXTERIOR WALL) DETAIL
SCALE: N.T.S.

ELECTRICAL NOTES:

1. EQUIPMENT OF TRADES OTHER THAN ELECTRICAL.
2. CONDUIT AND WIRING BY HVAC, PLUMBING CONTRACTOR, OR OTHER TRADES.
3. IF AN ADDITIONAL DISCONNECT IS REQUIRED BY NEC, IT SHALL BE PROVIDED AND INSTALLED BY THE EQUIPMENT CONTRACTOR.
4. A COMBINATION STARTER OR VFD MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER, LOCATE ADJACENT TO EQUIPMENT.
5. FEEDER CIRCUIT WIRING AND CONDUIT IN ELECTRICAL WORK, SEE PANELBOARD SCHEDULES FOR WIRE AND BREAKER SIZES.
6. JUNCTION BOX MAY BE SHOWN ON ELECTRICAL PLANS FOR SOME EQUIPMENT. IF NO STARTER OR DISCONNECT IS SUPPLIED, A JUNCTION BOX SHALL BE INSTALLED ADJACENT TO EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LINE SIDE WIRING TO THE JUNCTION BOX. LOAD SIDE WIRING WILL BE PROVIDED BY MECHANICAL CONTRACTOR OR OTHER TRADES.
7. PROJECTS UTILIZING AN MCC, THE STARTER, CB OR VFD IN THE MCC ARE PROVIDED BY THE ELECTRICAL CONTRACTOR.
8. IN ALL CASES THE EQUIPMENT CONTRACTOR SHALL MAKE FINAL CONNECTIONS, START UP, AND TEST EQUIPMENT.
9. IF THE ROOF TOP FAN IS NOT PROVIDED WITH BUILT IN SWITCH, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A DISCONNECT SWITCH.
10. IN A SINGLE PRIME CONTRACT, IT IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR TO COORDINATE BETWEEN THE ELECTRICAL AND THE OTHER TRADES.



8 ELECTRICAL COORDINATION
SCALE: N.T.S.

WALKER GROUP ARCHITECTURE

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PROJECT NO. 224007 | PROJECT MGR. D. HAM | DRAWN BY D. HILL

NORTH CAROLINA PROFESSIONAL SEAL 31466 ENGINEER JAMES D. HAM 9/12/25

New NC Forest Service County Office for Lenoir County

2208 ROBINSON ROAD KINSTON, NC 28504

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MECHANICAL DETAILS

Sheet Number 3 Of 4
Drawing Number M-201

HEAT PUMP (INDOOR UNIT) SCHEDULE

MARK	SUPPLY FAN				NOMINAL COOLING CAPACITY			AUX. HEAT	VOLT/PH	FLA	MCA	MOCP	REF. MANF.	REF. MODEL	WEIGHT
	SA CFM	OA CFM	EXT SP	MTR HP	EAT(DB/WB)	TOT CAP	SEN CAP	@ 208V							
AH-1	1200	150	0.5"	1/2	76°/65°	35.4 MBH	27.8 MBH	5.8 KW	208/1ø	24	30	30A	TRANE	GAM5A0B36	144 LBS.

NOTES:
1. PROVIDE THE FOLLOWING OPTIONS AND ACCESSORIES:
   - SINGLE POINT WIRING CONNECTION
   - TXV MATCHING CONDENSER CAPACITY
   - 7-DAY PROGRAMMABLE THERMOSTAT WITH LOCKOUT FUNCTION
   - ECM FAN MOTORS

HEAT PUMP (OUTDOOR UNIT) SCHEDULE

MARK	EAT(DB)	NOM CAP	VOLT/PH	FLA	MCA	MOCP	MIN. SEER	HSPF	REF. MANF.	REF. MODEL	WEIGHT
HP-1	95°	3.0 TONS	208/1ø	14	18	30A	15.0 SEER	8.5	TRANE	4TWR5036	230 LBS.

NOTES:
1. PROVIDE THE FOLLOWING OPTIONS AND ACCESSORIES:
   - 5 YEAR COMPRESSOR WARRANTY
   - COMPRESSOR ANTI SHORT CYCLE DELAY
   - CRANKCASE HEATERS
   - HIGH AND LOW PRESSURE SWITCHES
   - OUTDOOR THERMOSTAT
   - LOW AMBIENT CONTROL TO 55°
   - LOW AMBIENT CONTROL TO 30° OPTION
   - SPECIALTIES FOR LONG-LINE APPLICATION
   - EXTREME CONDITION MOUNT KIT
2. M.C. SHALL COORDINATE PRODUCT SPECIFIC ELECTRICAL REQUIREMENTS WITH E.C..

EXHAUST FAN SCHEDULE

MARK	TYPE	CFM	ESP	WATTS	VOLT/PH	REF. MANF.	REF. MODEL	*SONES	WEIGHT	NOTES	CONTROL
EF-1	CEILING	70	0.25"	17	120/1ø	GREENHECK	SP-A90	0.4	12 LBS	1,2	A

NOTES:
1. PROVIDE WITH ROOF CAP AS SHOWN ON PLANS.
2. PROVIDE WITH BACKDRAFT DAMPER.
* SONE LEVELS SHALL NOT EXCEED LEVELS LISTED IN SCHEDULE.
   ESP - STATIC PRESSURE EXTERNAL TO THE FAN ASSEMBLY
   TSP - TOTAL STATIC PRESSURE INCLUDING FAN ACCESSORIES

CONTROL TYPE DESCRIPTION:
A. INTERLOCK WITH ROOM LIGHTING CONTROL BY EC.

ROOF CAP SCHEDULE

MARK	USAGE	CFM RANGE	SP DROP	SIZE	MATERIAL	REF. MANF.	REF. MODEL	NOTES
RJ-1	INTAKE	0-220	0.06"	6"x9"	STEEL	GREENHECK	RJ-6X9	1

NOTES:
1. PROVIDE WITH BIRDSCREEN & FLASHING FLANGE.

MECHANICAL PIPING INSULATION TABLE

SERVICE	LOCATION	MATERIAL TYPE	JACKET TYPE	PIPE SIZE	THICKNESS	REMARKS
REFRIGERATION SUCTION PIPING	BUILDING ENVELOPE	CLOSED CELL ELASTOMERIC	NONE	ALL	3/4"	SEAL ALL JOINTS & SEAMS TO PREVENT CONDENSATION
	UNCONDITIONED SPACE	CLOSED CELL ELASTOMERIC	NONE	ALL	1 1/2"	SEAL ALL JOINTS & SEAMS TO PREVENT CONDENSATION
	EXTERIOR	CLOSED CELL ELASTOMERIC	NONE	ALL	1 1/2"	PROVIDE WITH WHITE UV PROTECTIVE COATING
A/C CONDENSATE PIPING	BUILDING ENVELOPE	CLOSED CELL ELASTOMERIC	NONE	ALL	3/4"	-
	VENTILATED ATTIC OR CRAWLSPACE	CLOSED CELL ELASTOMERIC	NONE	ALL	3/4"	(NONE REQUIRED FOR EXTERIOR)

NOTES: ALL PIPE HANGERS AND SUPPORTS ON COLD PIPING SHALL BE OF CLEVIS TYPE ON OUTSIDE OF INSULATION TO MAINTAIN VAPOR BARRIER.

MECHANICAL DUCT INSULATION TABLE

SERVICE	LOCATION	MATERIAL TYPE	JACKET TYPE	R-VALUE	THICKNESS	REMARKS
RIGID METAL SUPPLY DUCT	BUILDING ENVELOPE	FIBERGLASS BLANKET	FSK	R-6.0	2.2"	R-VALUE BASED ON NOMINAL RATING AS INSTALLED
	VENTILATED ATTIC OR CRAWLSPACE	FIBERGLASS BLANKET	FSK	R-8.0	3"	R-VALUE BASED ON NOMINAL RATING AS INSTALLED
	EXPOSED	FIBERGLASS DUCT LINER	-	R-4.0	1"	SUPPLY DUCTS INDICATED AS LINED
RIGID METAL RETURN DUCT	CONDITIONED SPACE	(NONE REQUIRED)				
	BUILDING ENVELOPE	FIBERGLASS BLANKET	FSK	R-6.0	2.2"	R-VALUE BASED ON NOMINAL RATING AS INSTALLED
	VENTILATED ATTIC OR CRAWLSPACE	FIBERGLASS BLANKET	FSK	R-8.0	3"	R-VALUE BASED ON NOMINAL RATING AS INSTALLED
EXHAUST DUCT	ALL	(NONE REQUIRED)				
FLEXIBLE SUPPLY DUCT	BUILDING ENVELOPE	FIBERGLASS	REINFORCED METALIZED PROTECTIVE BARRIER	R-6.0	2"	
	VENTILATED ATTIC OR CRAWLSPACE	FIBERGLASS	REINFORCED METALIZED PROTECTIVE BARRIER	R-8.0	2 1/2"	
FLEXIBLE RETURN DUCT	BUILDING ENVELOPE	FIBERGLASS	REINFORCED METALIZED PROTECTIVE BARRIER	R-6.0	2"	
	VENTILATED ATTIC OR CRAWLSPACE	FIBERGLASS	REINFORCED METALIZED PROTECTIVE BARRIER	R-8.0	2 1/2"	

AIR DISTRIBUTION SCHEDULE

MARK	TYPE	MNT.	SIZE	NECK	PATTERN	MAT'L	FINISH	REMARKS
SA	CEILING REGISTER WITH ADJUSTABLE MULTI-SHUTTER DAMPER	SURF	12"x8"	6"x6"x6"ø	4-WAY	ALUM.	WHITE	FLUSH FACE SNAP IN CORE MOUNTED IN 2x2 PANEL
SL	LOUVERED FACE SUPPLY DIFFUSER	SURF	15"x15"	12"x12"x10"ø	4-WAY	ALUM.	WHITE	SURFACE MOUNTED BEVELED BORDER
RP1	RETURN PERFORATED FACE	SURF	12"X12"	6"x6"x6"ø	-	ALUM.	WHITE	BLACK BACK PAN
RP2	RETURN PERFORATED FACE	SURF	12"X12"	9"x9"x8"ø	-	ALUM.	WHITE	BLACK BACK PAN
RP3	RETURN PERFORATED FACE	SURF	15"x15"	12"x12"x10"ø	-	ALUM.	WHITE	BLACK BACK PAN

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MECHANICAL SCHEDULES

Sheet Number 4 Of 4
Drawing Number

M-301

ELECTRICAL LEGEND

SYM.	DESCRIPTION	REF. MODEL NO.	REMARKS
J	JUNCTION BOX	–	DOUBLE GANG UNO
T S	THERMOSTAT OR SENSOR JUNCTION BOX	–	MOUNT 48" TOD AFF UNO
	NON–FUSED DISCONNECT	–	–
	FUSED DISCONNECT	–	–
OS	CEILING OCCUPANCY SENSOR DUAL TECHNOLOGY (LINE VOLTAGE – 800W)	WATTSTOPPER DT–355	CONTRACTOR SHALL VERIFY COVERAGE OF SENSORS
$OS	WALL SWITCH WITH OCCUPANCY SENSOR (PASSIVE INFRARED)	WATTSTOPPER PW–103, OR EQUAL	MULTI–WAY CONTROL UP TO FOUR SWITCH LOCATIONS
$D,OS	DIMMING WALL SWITCH WITH OCC SENSOR (0–10VDC DIMMING & DUAL TECH)	WATTSTOPPER DW–311	MULTI–WAY CONTROL UP TO FOUR SWITCH LOCATIONS
$	SWITCH	HUBBELL CSB120x	–
$D	0–10V DIMMER SWITCH	HUBBELL PSD710–UNV	STAND ALONE CONTROL
$M	MANUAL MOTOR SWITCH	SIEMENS MMS	MOUNT AS REQUIRED
*	EMERGENCY LIGHT	–	SOLID FILL HATCHING
	RECEPTACLE	HUBBELL HBL5352x	HBL5362C2x FOR CONTROLLED RECEPTACLE
WR	WEATHER RESISTANT	HUBBELL HBL5362xWR	–
GFI	GROUND FAULT RECEPTACLE	HUBBELL GFRST20x	SELF TESTING PER UL 943
WR GFI	GROUND FAULT, WEATHER RESIST RECEPT.	HUBBELL GFTWRST20x W/"IN USE" COVER	SELF TESTING PER UL 943
	DATA/PHONE OUTLET	–	DOUBLE GANG UNO

NOTES:
1. STANDARD MOUNTING HEIGHTS OF DEVICES SHALL BE AS LISTED IN LEGEND. SPECIFIC MOUNTING HEIGHT OF A DEVICE MAY VARY AS NOTED ON PLANS.
2. E.C. SHALL COORDINATE COLOR SELECTION OF DEVICES AND COVERPLATES WITH ARCHITECT, OWNER AND/OR G.C.
3. PROVIDE EQUIPMENT SHOWN BY HUBBELL, PASS & SEYMOUR, COOPER WIRING DEVICES, OR EQUAL PRODUCT.
4. PROVIDE LOW VOLTAGE OCCUPANCY SENSORS WITH POWER PACKS AS REQUIRED.

ABBREVIATIONS:

G.C.	GENERAL CONTRACTOR	AFG	ABOVE FINISHED GRADE
P.C.	PLUMBING CONTRACTOR	UNO	UNLESS NOTED OTHERWISE
M.C.	MECHANICAL CONTRACTOR	℄	CENTERLINE OF DEVICE
E.C.	ELECTRICAL CONTRACTOR	BOD	BOTTOM OF DEVICE
AFF	ABOVE FINISHED FLOOR	TOD	TOP OF DEVICE

ELECTRICAL ENERGY SUMMARY
ELECTRICAL SYSTEMS AND EQUIPMENT:

METHOD OF COMPLIANCE:

NC ENERGY CODE 2018: ☒ PRESCRIPTIVE ☐ PERFORMANCE ~~(C101.2 EXEPT #2)~~

ASHRAE 90.1 2016: ☐ PRESCRIPTIVE ☐ PERFORMANCE

LIGHTING SCHEDULE

LAMP TYPE REQUIRED IN FIXTURE	SEE LIGHTING SCHEDULE ON PLANS
NUMBER OF LAMPS IN FIXTURE	SEE LIGHTING SCHEDULE ON PLANS
BALLAST TYPE USED IN THE FIXTURE	SEE LIGHTING SCHEDULE ON PLANS
NUMBER OF BALLASTS IN THE FIXTURE	SEE LIGHTING SCHEDULE ON PLANS
TOTAL WATTAGE PER FIXTURE	SEE LIGHTING SCHEDULE ON PLANS
TOTAL INTERIOR WATTAGE SPEC. VS ALLOWED	798 WATTS SPEC. VS 1495 WATTS ALLOWED
☒ WHOLE BLDG ☐ SPACE BY SPACE	
TOTAL EXTERIOR WATTAGE SPEC. VS ALLOWED	152 WATTS SPEC. VS. 806 WATTS ALLOWED
ZONE: 3 ALLOWANCE: 750 WATTS	

ADDITIONAL PRESCRIPTIVE COMPLIANCE
(WHEN USING THE 2018 NCECC; NOT REQUIRED FOR ASHRAE 90.1)

- ☐ C406.2.1 MORE EFFICIENT MECHANICAL EQUIPMENT
- ☒ C406.2.2 REDUCED LIGHTING POWER DENSITY
- ☐ C406.2.3 ENHANCED LIGHTING CONTROLS
- ☐ C406.2.4 ON–SITE SUPPLY OF RENEWABLE ENERGY
- ☐ C406.2.5 PROVISION OF A DEDICATED OUTDOOR AIR SYSTEM
- ☐ C406.2.6 HIGH–EFFICIENCY SERVICE WATER HEATING

LIGHT FIXTURE SCHEDULE

MARK	DESCRIPTION	REF MANF	MODEL NUMBER FOR FIXTURE REFERENCE QUALITY AND APPEARANCE	SOURCE	LED LUMENS	COLOR TEMP	CRI	FIXTURE INPUT WATTS	VOLTS	MULTI–VOLT INPUT	DIMMING TO 10%	BATTERY BACK–UP	BATTERY BACK–UP – 1400 LUMENS	ELECTRONIC BALLAST	DAMP LOCATION LISTED	WET LOCATION LISTED	STANDARD COLOR SELECTED BY ARCH.	CUSTOM COLOR SELECTED BY ARCH.	REMARKS
A	2x4 LED FLAT PANEL (SURFACE KIT)	LITHONIA	CPX 2X4 AL08 80CRI SWW7 SWL MVOLT 2X4SMKSH	LED	3700	40K	80	25	120	●	●								
A1	2x4 LED FLAT PANEL (SURFACE KIT) (EMERGENCY)	LITHONIA	CPX 2X4 AL08 80CRI SWW7 SWL MVOLT E10WLCP 2X4SMKSH	LED	3700	40K	80	25	120	●	●		●						
B	2x4 LED FLAT PANEL (SURFACE KIT)	LITHONIA	CPX 2X4 AL08 80CRI SWW7 SWL MVOLT 2X4SMKSH	LED	5000	40K	80	35	120	●	●								
C	1x4 LED FLAT PANEL (SURFACE KIT)	LITHONIA	CPX 1X4 AL07 80CRI SWW7 SWL MVOLT 1X4SMKSH	LED	4000	40K	80	30	120	●	●								
C1	1x4 LED FLAT PANEL (SURFACE KIT) (EMERGENCY)	LITHONIA	CPX 1X4 AL07 80CRI SWW7 SWL MVOLT E10WLCP 1X4SMKSH	LED	3700	40K	80	30	120	●	●		●						
F	DECORATIVE VANITY LED	LITHONIA	FMVTSL 24IN MVOLT 30K 90CRI BN	LED	1363	30K	90	18	120	●	●							●	
EXIT	EXIT LIGHT	LITHONIA	LQM LED R	LED	–	–	–	5	120			●			●				
	EXTERIOR LIGHTS																		
XA	EXTERIOR WALL PACK	LITHONIA	WDGE2 LED P2 40K 80CRI TFTM MVOLT	LED	2000	40K	80	19	120	●		●			●	●			
XA1	EXTERIOR WALL PACK (EMERGENCY)	LITHONIA	WDGE2 LED P2 40K 80CRI TFTM MVOLT E10WH	LED	2000	40K	80	19	120	●		●			●	●			

1. NO EQUALS WILL BE ACCEPTED FOR TYPE A AND A1 FIXTURES. SELECTED FIXTURE MATCHES OTHERS ON THIRD FLOOR.
2. EQUAL FIXTURES BY HUBBELL, MARK, KENALL, OR COLUMBIA ARE ACCEPTED, BUT NOT LIMITED TO.

ELECTRICAL NOTES:

1. ELECTRICAL PLANS ARE INTENDED TO PROVIDE INFORMATION FOR INSTALLATION OF A COMPLETE ELECTRICAL SYSTEM. PROVIDE ALL ESSENTIAL LABOR, MATERIALS & DEVICES REQUIRED TO PRODUCE A QUALITY END PRODUCT. THIS INCLUDES ALL REQUIRED CONTROL WIRING OR WIRING CALLED FOR BY THE MANUFACTURER. INSTALLATION SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS.
2. CONTRACTOR SHALL REVIEW & BECOME FAMILIAR WITH THE WORK OF ALL TRADES FOR PURPOSES OF COORDINATION AND ROUTING. CONTRACTOR SHALL PROVIDE REQUIRED PLANNING, COORDINATION AND SEQUENCING OF ELECTRICAL INSTALLATION WITH BUILDING COMPONENTS AND OTHER TRADES.
3. ALL WORK SHALL COMPLY WITH THE 2020 VERSION OF THE NATIONAL ELECTRICAL CODE (NEC). WORKMANSHIP SHALL MEET OR EXCEED INDUSTRY STANDARDS.
4. BEFORE SUBMITTING SHOP DRAWINGS TO ENGINEER FOR REVIEW, CONTRACTOR SHALL REVIEW AND COORDINATE SUBMITTALS (SHOP DRAWINGS) WITH OTHER SUBMITTALS AND WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. BY APPROVAL AND SUBMITTAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS TO THE ENGINEER, THE CONTRACTOR REPRESENTS THAT IT HAS DETERMINED AND VERIFIED AND CHECKED THE INFORMATION WITHIN THE SUBMITTAL WITH THE REQUIREMENTS OF THE WORK AND THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR AND SHALL DETERMINE AND VERIFY ALL FIELD MEASUREMENTS, QUANTITIES, DIMENSIONS, AND INSTALLATION REQUIREMENTS. PROVIDE WRITTEN NOTICE ON SUBMITTAL OF ANY DEVIATIONS. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR DEVIATIONS FROM CONTRACT DOCUMENTS REQUIREMENTS BY THE ARCHITECT'S APPROVAL OF SHOP DRAWINGS OR OTHER SUBMITTALS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ENGINEER IN WRITING OF SUCH DEVIATION AT THE TIME OF THE SUBMITTAL AND SUCH DEVIATION HAS BEEN APPROVED IN WRITING.
5. THE ELECTRICAL CONTRACTOR SHALL NOTIFY THE STATE ELECTRICAL INSPECTORS IN THE STATE CONSTRUCTION OFFICE TO SCHEDULE REQUIRED INSPECTIONS BETWEEN MONDAY TO FRIDAY (NO WEEKEND INSPECTIONS WILL BE PERFORMED). NO WORK WILL BE COVERED UP UNTIL AFTER INSPECTION HAS BEEN COMPLETED AND APPROVED BY AUTHORIZED SCO INSPECTOR.
6. THE CITED EXAMPLES OF PRODUCTS ARE USED ONLY TO DENOTE THE QUALITY STANDARD OF PRODUCT DESIRED AND THEY DO NOT RESTRICT BIDDERS TO A SPECIFIC BRAND, MAKE, MANUFACTURER OR SPECIFIC NAME; THAT THEY ARE USED ONLY TO SET FORTH AND CONVEY TO BIDDERS THE GENERAL STYLE, TYPE, CHARACTER AND QUALITY OF PRODUCT DESIRED; AND THAT EQUIVALENT PRODUCTS WILL BE ACCEPTABLE.
7. PROTECT ALL NEW MATERIALS FROM THE WEATHER IN STORAGE TRAILERS OR PROVIDE SUITABLE COVERING.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LINE SIDE WIRING AND TERMINATIONS TO JUNCTION BOX, VFD, STARTER, DISCONNECT OR TROUGH FOR EQUIPMENT PROVIDED UNDER OTHER TRADES. LOAD SIDE WIRING AND TERMINATIONS BY OTHERS UNLESS EQUIPMENT BEING FED PROVIDED BY E.C. POWER WIRING TO CONTROL DEVICES SHALL BE PROVIDE BY E.C.. ALL WIRING FOR CONTROLS AND INSTRUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR INSTALLING THE DEVICE. FOR EQUIPMENT WITH BUILT IN DISCONNECTS, E.C. SHALL PROVIDE WIRING AND TERMINATIONS TO EQUIPMENT MOUNTED DISCONNECT.
9. ALL WIRING, DEVICES AND OTHER LIKE MATERIALS SHALL BE LISTED AND LABELED BY A THIRD–PARTY TESTING AGENCY. THIRD PARTY AGENCIES SHALL BE ONE OF THOSE ACCREDITED BY THE NCBCC (NORTH CAROLINA BUILDING CODE COUNCIL) TO LABEL ELECTRICAL AND MECHANICAL EQUIPMENT AND MARKED FOR INTENDED USE. ALL MATERIALS SHALL MEET THE NEC FOR THE INTENDED USE AND INSTALLED IN ACCORDANCE WITH THE NEC. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES, AND EQUIPMENT TO BE EVALUATED FOR SAFETY AND SUITABILITY FOR INTENDED USE. CURRENT LIST OF NCBCC ACCREDITED NRTL AGENCIES SHALL BE OBTAINED FROM THE DEPARTMENT OF INSURANCE WEBSITE.
10. PROVIDE THHN/THWN COPPER WIRE (UL 83 LISTED). PROVIDE A MINIMUM WIRE SIZE OF #12. ALL WIRE #8 AWG AND LARGER SHALL BE STRANDED, #10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS AND CONDUIT ON PLANS AND SCHEDULES REFLECT AMPACITIES PER NEC TABLE 310.16 75C RATING. CONTRACTOR SHALL VERIFY ALL TERMINATIONS, LUGS, ETC. ARE RATED FOR USE PER NEC 110.14(C). OTHERWISE PROVIDE CONDUCTOR AND CONDUIT SIZED PER LOWEST TEMPERATURE RATING OF ANY TERMINATION WITHIN A CIRCUIT. A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED FOR ALL CIRCUITS. ALL EQUIPMENT FEEDERS SHALL BE RUN CONTINUOUS FROM THE BREAKER TO THE DISCONNECT SWITCH; SPLICES ARE NOT ALLOWED.
11. COLOR CODING OF WIRE SHALL BE AS FOLLOWS:

208/120V	PHASE A	BLACK
	PHASE B	RED
	PHASE C	BLUE
	NEUTRAL	WHITE
	EQ. GROUND	GREEN

12. PROVIDE LABELS ON ALL RECEPTACLES IDENTIFYING PANEL AND CIRCUIT NUMBER. LABELS SHALL BE BRADY CLEAR POLYESTER 1"W X 0.375"H OR PANDUIT EQUAL, WITH BLACK LETTERING. MARK ALL JUNCTION BOXES ABOVE CEILING INDICATING PANEL AND CIRCUIT NUMBER USING PERMANENT MARKER. PROVIDE PHENOLIC LABEL ON EXTERIOR BOXES WITH EQUIPMENT DESCRIPTION, AND PANEL AND CIRCUIT NUMBER. BOXES SHALL NOT BE INSTALLED IN AN INACCESSIBLE LOCATION.
13. PROVIDE MINIMUM 3/4" CONDUIT FOR ALL WIRING. ALL RACEWAYS SHALL BE INSTALLED WITHIN WALLS, INCLUDING BLOCK, UNLESS NOTED OTHERWISE. FLEXIBLE METAL CONDUIT WITH A MAXIMUM LENGTH OF 6' MAY BE USED FOR THE CONNECTION OF LIGHT FIXTURES TO JUNCTION BOXES. EMT OR RIGID SHALL BE USED WHERE EXPOSED TO PHYSICAL DAMAGE. CONDUIT ABOVE GRADE SHALL BE STEEL. CONDUIT BELOW GRADE MAY BE PVC CHANGING TO STEEL IN THE ELBOW TURNING UP. EMT SHALL NOT BE USED IN DIRECT CONTACT WITH THE EARTH, WHERE EXPOSED TO SEVERE PHYSICAL DAMAGE, OR ANY OUTDOOR LOCATION. FITTINGS ON EMT CONDUIT SHALL BE COMPRESSION TYPE. FITTINGS ON IMC OR RGS SHALL BE THREADED. MOTOR CONNECTIONS SHALL BE MADE WITH FMC, MIN. 18" LONG AND MAX 36". USE PVC JACKETED FLEXIBLE LIQUID TIGHT CONDUIT TYPE UA FOR CONNECTIONS IN WET LOCATIONS. EXPOSED CONDUIT IN FINISHED ROOMS SHALL BE SUPPORTED TO WALL SURFACE WITH APPROVED PIPE STRAPS OR CLAMPS. IMC AND RGS SHALL TERMINATE WITH EITHER A DOUBLE LOCKNUT/BUSHING SET, OR A THREADED HUB. SEAL SERVICE RACEWAYS ENTERING A BUILDING FROM AN UNDERGROUND SYSTEM PER NEC 230.8 AND 300.5(G). WHERE CONCENTRIC, ECCENTRIC OR OVER–SIZED KNOCKOUTS ARE ENCOUNTERED, A GROUNDING–TYPE INSULATED BUSHING SHALL BE PROVIDED AND JUMPER SIZED PER NEC TABLE 250–122 AND LUGGED TO THE BOX. ALL CONDUITS SHALL BE PROVIDED WITH INSULATED THROAT. EMT CONDUIT PROVIDED BELOW ROOF DECK SHALL BE INSTALLED 1–1/2 INCHES AWAY FROM THE DECK TO AVOID SCREWS PENETRATING THE EMT CONDUIT DURING RE–ROOFING. ALL EMPTY RACEWAYS SHALL BE PROVIDED WITH PULL STRING. LOCATE JUNCTION AND PULL BOXES SUCH THAT THEY REMAIN ACCESSIBLE AFTER ALL CONSTRUCTION WORK IS COMPLETE.
14. PROVIDE ONE–INCH CONDUITS EXTENDING TO ATTIC FOR ALL TELEPHONE AND DATA OUTLETS SHOWN ON PLANS. PROVIDE PROTECTIVE BUSHINGS ON ENDS OF CONDUIT. SEE PLAN DETAILS FOR CABLE REQUIREMENTS AT EACH LOCATION. PROVIDE 12 INCH SERVICE LOOP ABOVE EACH OUTLET.
15. PROVIDE 3/4–INCH EMPTY CONDUITS TERMINATING ABOVE THE CEILING FOR ALL HVAC THERMOSTATS. JUNCTION BOXES SHALL MATCH ORIENTATION OF THERMOSTATS PROVIDED BY M.C.. MOUNT JUNCTION BOXES 48–INCHES A.F.F. UNLESS NOTED OTHERWISE. PROVIDE PROTECTIVE BUSHINGS ON ENDS OF CONDUIT.
16. PANELBOARDS FOR SERVICE ENTRANCE SHALL BE SERVICE ENTRANCE RATED. PROVIDE NEMA 3R PANELBOARDS WHERE LOCATED OUTSIDE. PROVIDE COPPER NEUTRAL AND GROUNDING BARS IN ALL PANELBOARDS UNLESS NOTED OTHERWISE (ALUMINUM IS NOT ALLOWED). GROUND ALL SERVICE ENTRANCE PANELS AND RACEWAYS (BONDING BUSHINGS) IN ACCORDANCE WITH THE NEC. PROVIDE BOLT–IN BREAKERS UNLESS NOTED OTHERWISE. PROVIDE A MINIMUM OF THREE SPARE 3/4" CONDUITS TO ABOVE CEILING FOR ALL FLUSH MOUNTED PANELBOARDS. PANELS SHALL BE FULLY RATED FOR SHORT CIRCUIT CURRENT, SERIES RATINGS ARE NOT ALLOWED. IF PANEL FEEDER SUPPLY LOCATION IS NOT EVIDENT, PROVIDE LABEL ON PANEL STATING, "POWER SUPPLY FOR PANEL "XX" ORIGINATES AT "XX"." PANEL TRIMS SHALL BE HINGED OR DOOR–IN–DOOR TO ALLOW ACCESS TO WIRING WITHOUT REMOVING TRIM.
17. PROVIDE MACHINE TYPED PANEL SCHEDULES IN EACH PANEL INDICATING THE SPECIFIC LOAD DESCRIPTION FOR EACH BREAKER PER NEC 408.4 (GENERAL DESCRIPTIONS SUCH AS "RECEPTACLE" ARE NOT ALLOWED. INDICATE ROOM NUMBERS FOR EACH LOAD.) LABEL PANELS ON PANEL FACE WITH PHENOLIC LABELS INDICATING PANEL NUMBER OR LETTER DESIGNATION, VOLTAGE, CURRENT RATING AND PHASE. PROVIDE ALL PANELBOARDS, SWITCHBOARDS, CONTROL PANELS, ETC. WITH WARNING SIGN FOR POTENTIAL ELECTRIC ARC FLASH HAZARDS PER NEC 110.16. PROVIDE PHENOLIC LABEL FOR SUB–PANELS DENOTING POWER SOURCE PER NEC 408.4(B) READING "FED FROM PANEL "–".
18. GROUND RODS SHALL BE COPPER CLAD STEEL, DIAMETER OF 3/4" x 10' LENGTH MINIMUM. SPACE RODS SUCH THAT THERE IS A MINIMUM OF 10 FEET SPACING BETWEEN RODS. DRIVE RODS 6 INCHES BELOW GRADE. PROVIDE A MINIMUM OF ONE TEST WELL AT A GROUND ROD. CONNECTIONS TO RODS SHALL BE BY EXOTHERMIC WELDS OR COMPRESSION CONNECTORS. GROUNDING TO BUILDING STEEL FOR SERVICE CONNECTION AND ANY SEPARATELY DERIVED SYSTEM SHALL BE BY EXOTHERMIC WELD.
19. PROVIDE HEAVY DUTY FUSED AND NON–FUSED DISCONNECT SWITCHES AS INDICATED ON PLANS. DISCONNECTS LOCATED OUTSIDE SHALL BE NEMA–3R. PROVIDE REJECTION CLIPS IN FUSED DISCONNECTS. LABEL DISCONNECT WITH PHENOLIC LABEL INDICATING PANEL AND CIRCUIT NUMBER FEEDING EQUIPMENT.
20. PROVIDE LIGHTING AS SCHEDULED IN THE FIXTURE SCHEDULE OR OTHERWISE NOTED ON PLANS. LIGHTING INSTALLED IN SUSPENDED CEILINGS SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING GRID SYSTEM WITH #12 WIRE. SECURE FIXTURES TO CEILING FRAMING MEMBER BY MECHANICAL MEANS PER NEC 410.36. LIGHTING CIRCUITS SHALL NOT SHARE NEUTRALS. LED FIXTURES SHALL CONTAIN COMPONENTS THAT ARE MODULAR IN DESIGN AND EASILY REPLACEABLE/UPGRADABLE. COORDINATE LOCATION OF EXTERIOR FIXTURES WITH ARCHITECTURAL ELEVATION DRAWINGS. THE E.C. SHALL BE RESPONSIBLE FOR ENSURING ALL COMPONENTS (FIXTURES, LED DRIVERS, AND CONTROLS) ARE FULLY COMPATIBLE PRIOR TO ORDERING. PROVIDE ALL REQUIRE MOUNTING HARDWARE, CONNECTORS, AND FIXTURE OPTIONS TO PROVIDE A COMPLETE AND OPERATIONAL INSTALLATION.
21. FIXTURE WHIPS TO DIMMABLE LED DRIVERS SHALL BE A MAXIMUM OF 6–FEET LONG, PRE–MANUFACTURED WITH CONTROL WIRING INTERNAL TO THE FMC MEETING BOTH UL AND NEC REQUIREMENTS. THE CONTROL WIRING SHALL MEET NEC SECTION 300.3(C)(1) AND 725.136. CLASS 2 OR 3 CIRCUITS SHALL BE 16/2 PVC JACKETED WITH GRAY AND PURPLE STRANDED CONDUCTORS.
22. PROVIDE EMERGENCY AND EXIT LIGHTS AS SHOWN ON PLANS. PER NFPA 101 SECTION 7.10.1.9. POWER SHALL BE PROVIDED FROM LIGHTING CIRCUITS ON THE UNSWITCHED LEG OF THE CIRCUIT SUCH THAT POWER TO THE EMERGENCY AND EXIT LIGHTS IS NOT DISCONNECTED WHEN NORMAL LIGHTING IS OFF. EXTERIOR EMERGENCY LIGHTS SHALL BE WIRED SUCH THAT PHOTOCELL AND/OR TIME CLOCK OPERATION DOES NOT DISCONNECT POWER TO BATTERIES. EMERGENCY UNIT EQUIPMENT AND BATTERIES SHALL BE UL924 LISTED FOR 90 MINUTES. BATTERIES SHALL BE TESTED PER NEC 700.12(A).
23. OCCUPANCY SENSORS IN RESTROOMS AND CORRIDORS SHALL BE ULTRASONIC ONLY. SENSOR LOCATIONS ARE APPROXIMATE; REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS. ULTRASONIC SENSORS SHALL NOT BE LOCATED CLOSER THAN 4 FEET FROM AIR SUPPLY/RETURN REGISTERS. VERIFY ALL COVERAGE AREAS OF SENSORS AS THEY VARY BETWEEN MANUFACTURERS. ALL REQUIRED POWER PACKS AND OTHER ACCESSORIES SHALL BE PROVIDED FOR A COMPLETE OPERATIONAL SYSTEM. INSTALL CONTROL DEVICES/POWER PACKS IN ACCESSIBLE J–BOX. OCCUPANCY SENSOR DEVICES INDICATED ON THE PLANS SHOW THE INTENT FOR LIGHTING CONTROL AND MINIMUM DEVICE REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE OCCUPANCY SENSOR MANUFACTURER TO DETERMINE PROPER TECHNOLOGY AND PLACEMENT OF THE SENSORS. ADDITIONAL SENSOR DEVICES MAY BE REQUIRED BEYOND THOSE SHOWN ON THE PLANS TO PROVIDE COMPLETE COVERAGE OF THE SPACE, WHICH SHALL BE PROVIDED AT NO COST TO THE OWNER.
19. RECEPTACLES SHALL BE FEDERAL SPECIFICATION GRADE, 20 AMP, 120V, AND MOUNTED VERTICALLY UNLESS NOTED OTHERWISE. RECEPTACLES MOUNTED OVER COUNTERS, BACK–SPLASHES, ETC. SHALL BE MOUNTED HORIZONTALLY.
20. RECEPTACLES WITHIN 6 FT. OF THE EDGE OF SINKS & LAVATORIES SHALL BE GROUND FAULT CIRCUIT–INTERRUPTING. ALL KITCHEN RECEPTACLES, INDOOR WET LOCATIONS, LOCKER ROOMS WITH SHOWERS, GARAGES, SERVICE BAYS AND THOSE RECEPTACLES FEEDING VENDING MACHINES AND WATER COOLERS SHALL BE PROVIDED WITH GROUND FAULT CIRCUIT–INTERRUPTER PROTECTION.
21. RECEPTACLES INSTALLED OUTSIDE OR IN WET LOCATIONS SHALL BE LISTED AS WEATHER–RESISTANT TYPE AND HAVE GROUND FAULT CIRCUIT–INTERRUPTER PROTECTION. PROVIDE WITH "IN USE", CAST ALUMINUM WEATHERPROOF COVERS IDENTIFIED AS "EXTRA DUTY" PER NEC 406.9(B).
22. WALL SWITCHES SHALL BE SINGLE POLE, 20 AMP, 120/277V.
23. PROVIDE STANDARD SIZE WALL PLATES FOR ALL DEVICES AND BLANK WALL PLATES FOR JUNCTION BOXES. WALL PLATES SHALL BE HIGH IMPACT, SMOOTH NYLON, COLOR TO MATCH DEVICE.
24. ALL ELECTRICAL COMPONENTS AND FIXTURES SHALL BE CLEANED & POLISHED. PAINTED SURFACES SHALL BE TOUCHED UP TO MATCH FACTORY APPLIED FINISHES.
25. GUARANTEE ALL EQUIPMENT, MATERIALS AND INSTALLATION FREE OF DEFECTS FOR A PERIOD OF 1–YEAR AFTER RECEIVING CERTIFICATE OF OCCUPANCY.

WALKER the GROUP ARCHITECTURE

EnTech ENGINEERING
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PROJECT NO. 224007 | PROJECT MGR. D. HAM | DRAWN BY D. HILL

NORTH CAROLINA PROFESSIONAL SEAL 31466 ENGINEER JAMES D. HAM 9/12/25

New NC Forest Service County Office for Lenoir County

2208 ROBINSON ROAD KINSTON, NC 28504

Bid Documents
SCO# 23-26839-01A

Revisions | No. | Date

Project Number 23-26839-01 | Date 9/12/25
Drawn | Checked

Scale: AS NOTED

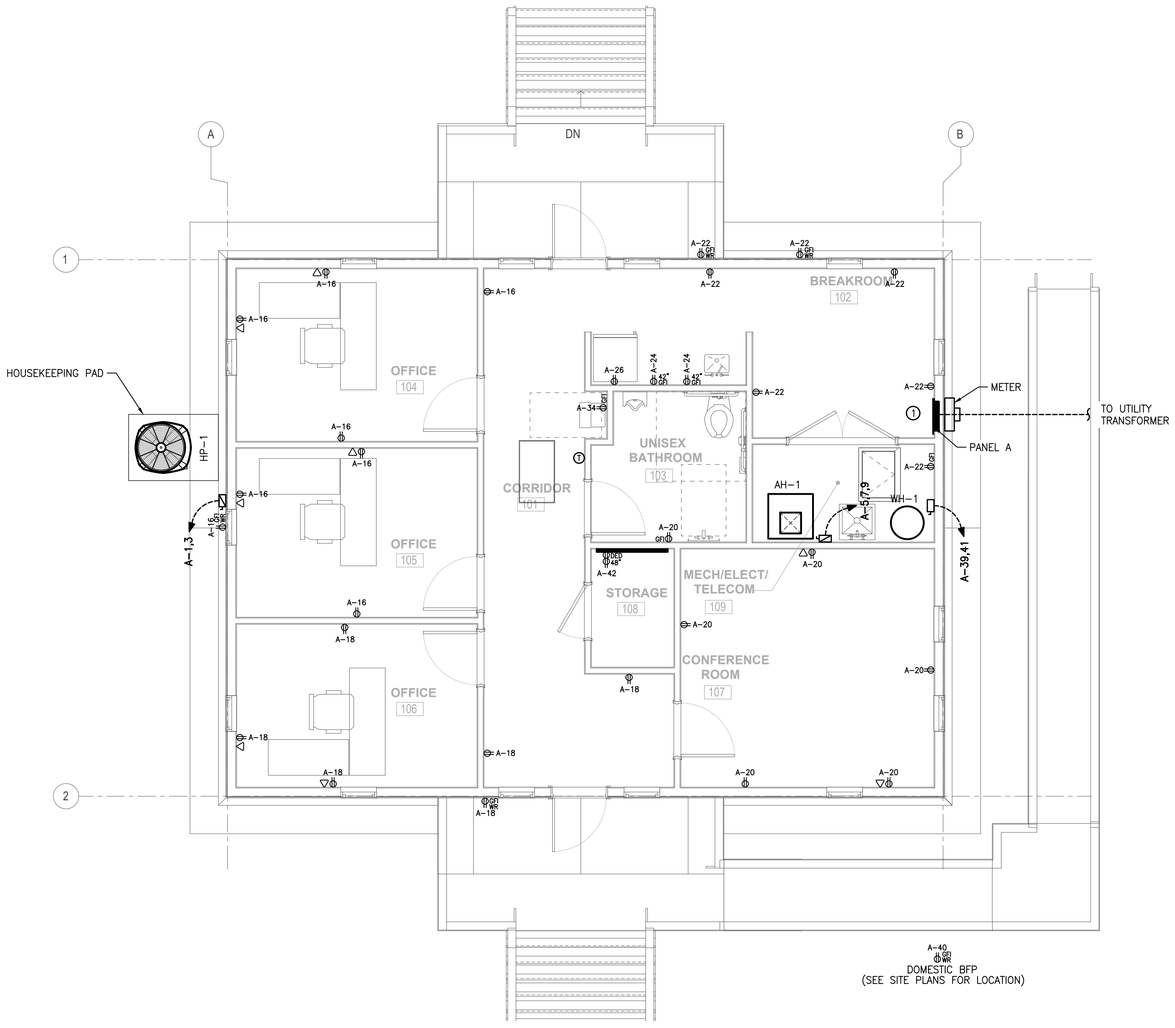
Drawing Title: **ELECTRICAL NOTES**

Sheet Number: 1 Of 5

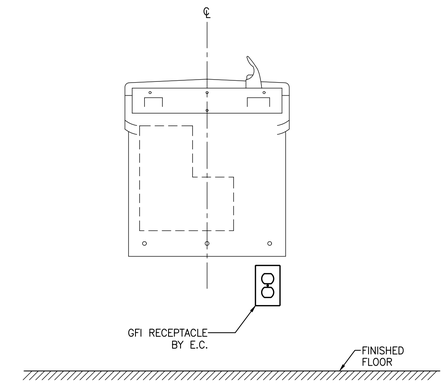
Drawing Number: **E-001**

INSTALLATION KEYED NOTES "Ⓐ":

1. PROVIDE (2) 1" CONDUITS STUBBED OUT BEYOND HANDICAP RAMP FOR FUTURE POLE BARN AND SHED. CAP CONDUITS UNDERGROUND.



1 ELECTRICAL POWER AND RECEPTACLE PLAN
SCALE: 1/4" = 1'-0"



NOTE: COORDINATE SPECIFIC RECEPTACLE MOUNTING LOCATION WITH P.C. PER SHOP DRAWING INSTALLATION INSTRUCTIONS.

2 ELECTRIC WATER COOLER INSTALLATION
SCALE: N.T.S.

WALKER THE GROUP ARCHITECTURE

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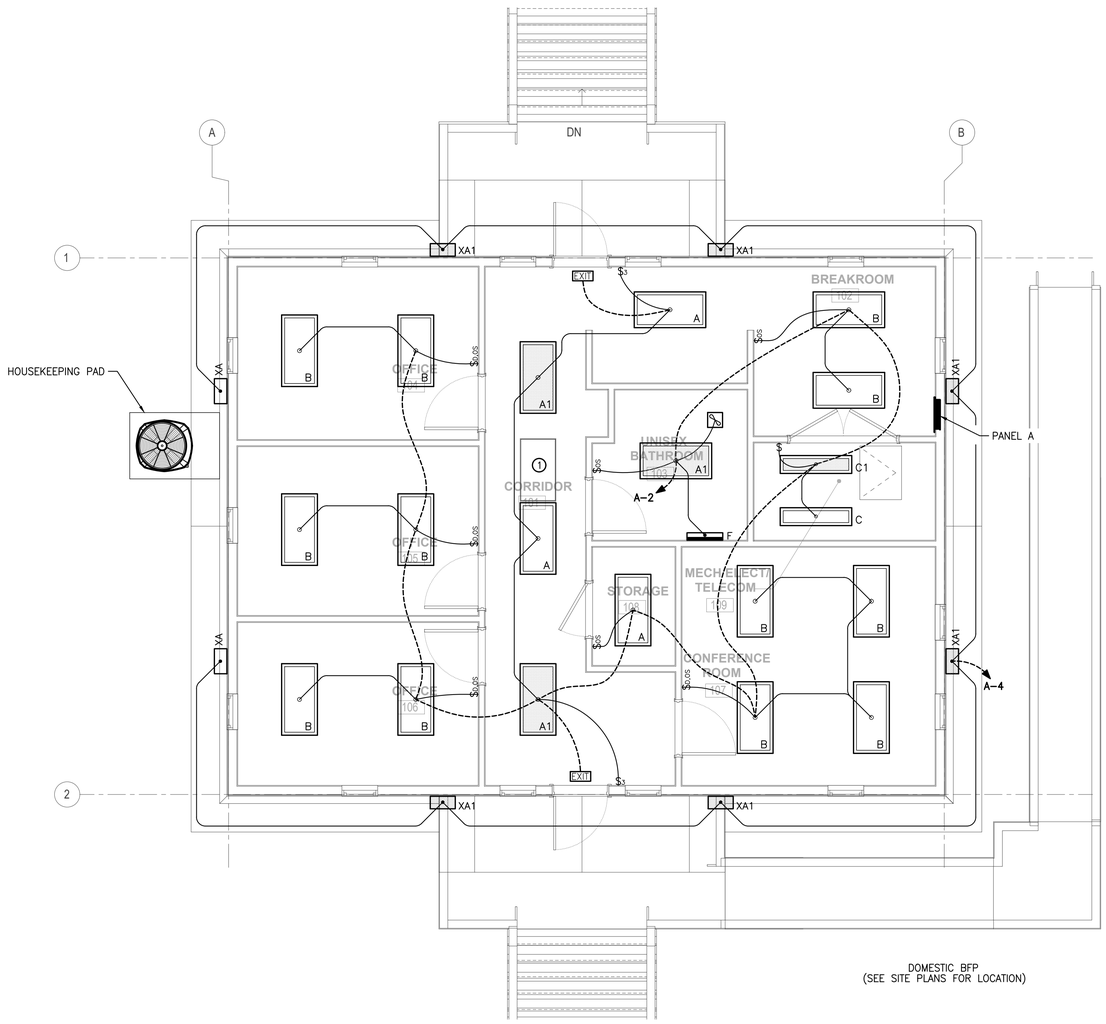
Drawing Title
ELECTRICAL PLANS

Sheet Number
2 Of 5

Drawing Number
E-101

INSTALLATION KEYED NOTES "Ⓝ":

1. PROVIDE WALL SWITCH AT BASE OF ATTIC STAIRS. PROVIDE (2) 4FT LED STRIP LIGHTS IN ATTIC. COORDINATE LOCATION WITH PLATFORMS AND HVAC DUCTS.



1 ELECTRICAL POWER AND LIGHTING PLAN
SCALE: 1/4" = 1'-0"

N

WALKER GROUP ARCHITECTURE

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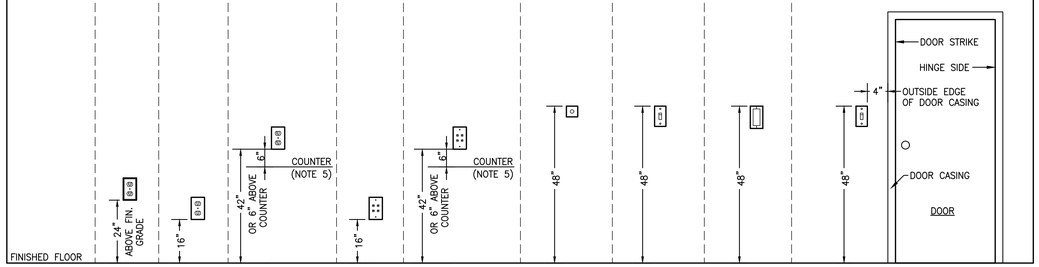
Drawing Title
ELECTRICAL PLANS

Sheet Number
3 Of 5

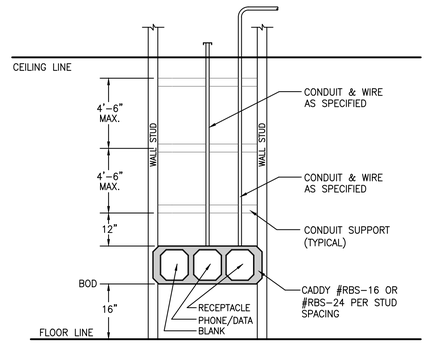
Drawing Number
E-102

DEVICE DESCRIPTION	EXTERIOR RECEPTACLE	DUPLEX RECEPTACLE	ABOVE COUNTER RECEPTACLE	PHONE/DATA	ABOVE COUNTER PHONE/DATA	ALL OTHER WALL MOUNTED CONTROL DEVICES	EXHAUST FAN WALL SWITCH/SPEED CONTROL	HVAC THERMOSTAT OR SENSOR	LIGHT SWITCH OR OTHER LIGHTING CONTROL DEVICE	LIGHT SWITCHES AND OTHER LIGHTING CONTROL DEVICES SHALL ALWAYS BE LOCATED ON THE STRIKE SIDE OF THE DOORWAY. (VERIFY DOOR SWINGS PRIOR TO ROUGH-IN)
EXAMPLES OF DEVICE SYMBOLS	WP GFI						$ / $_{SC}$	T OR S	$	



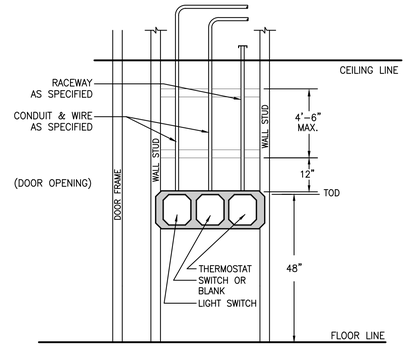
NOTES:
1. **THIS DETAIL IS GENERIC TO ADDRESS MOUNTING HEIGHTS OF WALL MOUNTED DEVICES.**
2. **ALL DEVICES MAY NOT APPLY TO THIS PROJECT.**
3. **ALL MOUNTING HEIGHTS ARE TYPICAL UNLESS OTHERWISE NOTED ON PLANS.**
4. **REFERENCE ELECTRICAL LEGEND FOR MORE SPECIFIC DEVICES TYPES.**
5. **VERIFY COUNTER AND BACKSPLASH HEIGHTS PRIOR TO ROUGH-IN.**

1 DEVICE MOUNTING HEIGHTS
SCALE: N.T.S.

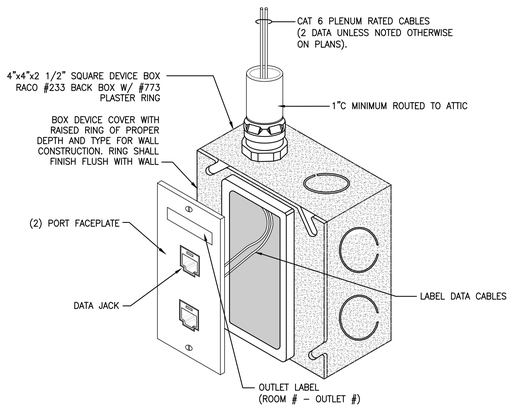


NOTES: 1. UTILIZE BRACKET WHEN INSTALLING MORE THAN ONE BOX.
2. SEE PLANS FOR LOCATIONS & SPECIFIC QUANTITIES.

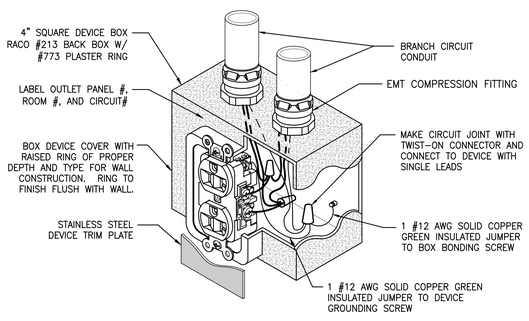
2 TYPICAL DEVICE MOUNTING
SCALE: N.T.S.



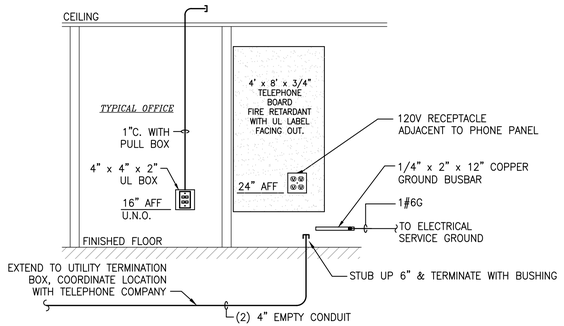
NOTES: 1. UTILIZE BRACKET WHEN INSTALLING MORE THAN ONE BOX.
2. SEE PLANS FOR LOCATIONS & SPECIFIC QUANTITIES.
3. LIGHT SWITCHES SHALL BE MOUNTED WITHIN 4" OF DOOR FRAME. USE SAME WIDTH IN ALL LOCATIONS. COORDINATE ADDITIONAL FRAMING WITH G.C. TO MAKE SPACING THE SAME IN ALL ROOMS OF SIMILAR TYPE.



3 DUPLEX DATA OUTLET
SCALE: N.T.S.

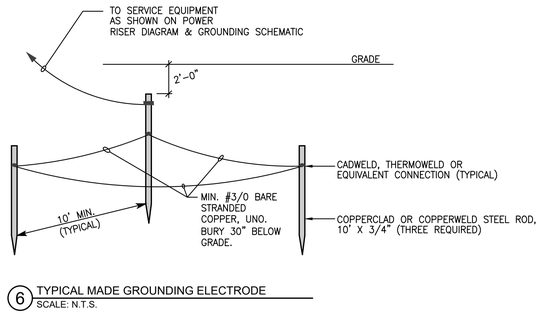


4 RECEPTACLE GROUNDING DIAGRAM
SCALE: N.T.S.

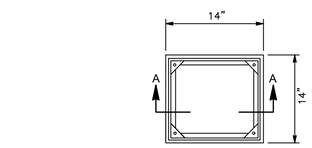


NOTES: 1. PROVIDE QUANTITY OF PLYWOOD SHEETS TO COVER WALLS AS SHOWN ON PLAN SHEET.
2. IF PROVIDING FIRE RETARDANT PLYWOOD, SHEETING DOES NOT REQUIRE PAINTING, OTHERWISE USE FIRE RATED INTUMESCENT PAINT. INSTALL SHEETING SUCH THAT FIRE LABEL FACES OUT.

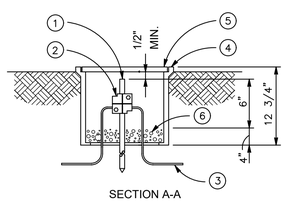
5 TELEPHONE SYSTEM DIAGRAM
SCALE: N.T.S.



6 TYPICAL MADE GROUNDING ELECTRODE
SCALE: N.T.S.



TOP VIEW (COVER REMOVED)



SECTION A-A

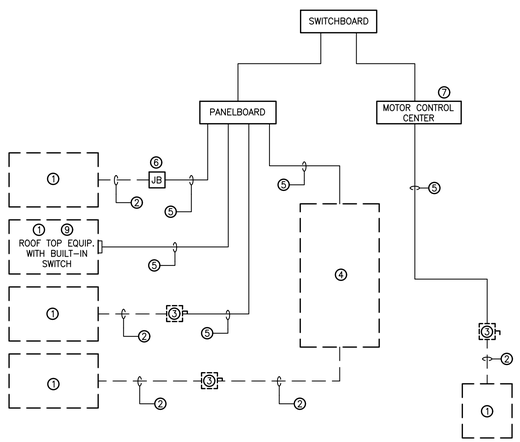
MATERIAL LIST

1. GROUND ROD
2. GROUND CLAMP
3. GROUNDING CONDUCTOR #1/0 COPPER
4. POLYMER CONCRETE FIBERGLASS REINFORCED BOX
5. COVER FOR ABOVE BOX
6. GRAVEL OR CRUSHED STONE

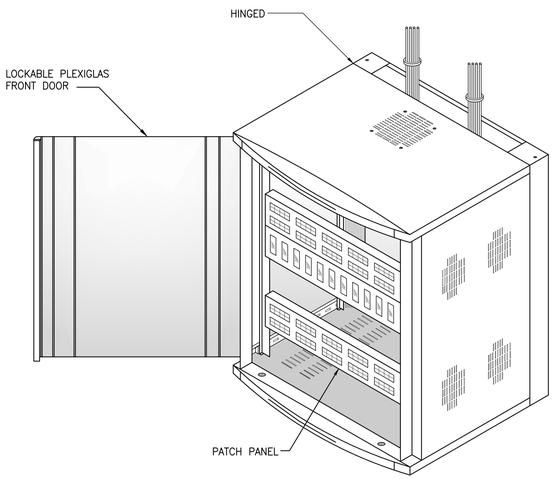
7 GROUND ROD TEST WELL
SCALE: N.T.S.

ELECTRICAL NOTES:

1. EQUIPMENT OF TRADES OTHER THAN ELECTRICAL.
2. CONDUIT AND WIRING BY HVAC, PLUMBING CONTRACTOR, OR OTHER TRADES.
3. IF AN ADDITIONAL DISCONNECT IS REQUIRED BY NEC, IT SHALL BE PROVIDED AND INSTALLED BY THE EQUIPMENT CONTRACTOR.
4. A COMBINATION STARTER OR VFD MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER, LOCATE ADJACENT TO EQUIPMENT.
5. FEEDER CIRCUIT WIRING AND CONDUIT IN ELECTRICAL WORK, SEE PANELBOARD SCHEDULES FOR WIRE AND BREAKER SIZES.
6. JUNCTION BOX MAY BE SHOWN ON ELECTRICAL PLANS FOR SOME EQUIPMENT. IF NO STARTER OR DISCONNECT IS SUPPLIED, A JUNCTION BOX SHALL BE INSTALLED ADJACENT TO EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LINE SIDE WIRING TO THE JUNCTION BOX. LOAD SIDE WIRING WILL BE PROVIDED BY MECHANICAL CONTRACTOR OR OTHER TRADES.
7. PROJECTS UTILIZING AN MCC, THE STARTER, CB OR VFD IN THE MCC ARE PROVIDED BY THE ELECTRICAL CONTRACTOR.
8. IN ALL CASES THE EQUIPMENT CONTRACTOR SHALL MAKE FINAL CONNECTIONS, START UP, AND TEST EQUIPMENT.
9. IF THE ROOF TOP FAN IS NOT PROVIDED WITH BUILT IN SWITCH, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A DISCONNECT SWITCH.
10. IN A SINGLE PRIME CONTRACT, IT IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR TO COORDINATE BETWEEN THE ELECTRICAL AND THE OTHER TRADES.



8 ELECTRICAL COORDINATION
SCALE: N.T.S.



NOTES:
1. CABINET, PATCH PANELS, AND WIRE MANAGEMENT SHALL BE PROVIDED BY E.C.
2. PROVIDE PATCH PANEL QUANTITY TO MATCH DATA CABLE QUANTITY PLUS 25%, MINIMUM.
3. SWITCHES & POWER SUPPLIES SHALL BE PROVIDED BY OWNER.
4. LABEL CABLES AND PATCH PANELS FRONT & REAR WITH OWNER'S STANDARD LABELING.
5. PROVIDE LABELING, TESTING AND MAPPING OF ALL CABLES. SUBMIT REPORT TO OWNER.
6. CABINET SHALL BE PROVIDED WITH THE FOLLOWING:
   - 6.1. HEAVY DUTY, FIELD REVERSIBLE DOUBLE HINGES FOR ACCESS FROM EITHER SIDE.
   - 6.2. FULLY WELDED, 16GA STEEL CONSTRUCTION.
   - 6.3. GROUNDING AND BONDING PROVISIONS.
   - 6.4. ADJUSTABLE RACK ANGLES FOR 19" EQUIPMENT.
   - 6.5. BLACK POWDER COAT.

9 WALL MOUNT CABINET
SCALE: N.T.S.

WALKER THE GROUP ARCHITECTURE

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Drawing Title
ELECTRICAL DETAILS

Sheet Number 4 Of 5

Drawing Number
E-201

SERVICE LOAD SUMMARY

OCCUPANCY TYPE – OFFICE			BUILDING AREA – 1,150 SQUARE FEET		
CONTINUOUS LOAD DESCRIPTION	LOAD (KVA)	NEC REFERENCE	DEMAND FACTOR	NEC REFERENCE	LOAD (KVA)
INDOOR LIGHTING	1.5	TABLE 220.12	100%	TABLE 220.42	1.5
OUTDOOR LIGHTING	0.2	--	100%	--	0.2
AIR HANDLER FANS (SPLIT SYSTEMS)	1.0	ARTICLE 440	100%	--	1.0
AIR HANDLER ELECTRIC HEAT	7.2	422.12	100%	--	7.2
HVAC OUTDOOR UNIT	3.1	ARTICLE 440	100%	--	3.1
WATER HEATERS	4.5	422.13	100%	--	4.5
FUTURE POLE BARN AND SHED	10.0	422.13	100%	--	10.0
SUBTOTAL CONTINUOUS LOADS					27.5
				230.42 A 1	x 125%
				CONT. LOAD TOTAL	34.4
NON CONTINUOUS LOAD DESCRIPTION					
RECEPTACLES UP TO 10 KVA	5.4	220.14 1	100% OF 1st 10 KVA		5.4
RECEPTACLES OVER 10 KVA	0.0	220.14 1	50% ABOVE 10 KVA		0.0
MISC. LOADS	3.0	--	NONCONTINUOUS LOAD x 100%		3.0
MISC. LOADS	0.0	--	NONCONTINUOUS LOAD x 100%		0.0
SUBTOTAL NON-CONTINUOUS LOADS					8.4
TOTAL CONTINUOUS AND NON CONTINUOUS LOADS					42.8

FAULT CURRENT @ TRANSFORMER SECONDARY TERMINALS		SERVICE LOAD	
$\frac{45 \text{ KVA (X-FORMER)}}{0.208 \times \sqrt{3} \times 1.5\%Z}$	= 8,300 AMPS	$\frac{43 \text{ KVA}}{0.208 \times \sqrt{3}}$	= 120 AMPS

NOTE: CONTRACTOR SHALL PROVIDE LABEL AT THE SERVICE EQUIPMENT INDICATING THE AVAILABLE FAULT CURRENT PER NEC 110.24. ENGINEER WILL PROVIDE CONTRACTOR LABEL DATA FOR FAULT CURRENT AFTER RECEIVING THE FOLLOWING: FINAL UTILITY TRANSFORMER SIZE AND IMPEDANCE VALUE (%Z), SERVICE CONDUCTOR LENGTH, QUANTITY PER PHASE, AND CONDUCTOR MATERIAL (COPPER OR ALUMINUM).

PANELBOARD SCHEDULE

PANEL A	SURFACE MOUNTED				SERVICE ENTRANCE RATED				200 AMP (FEEDER SIZE)				3ø, 4 WIRE
MAIN BREAKER	BOTTOM FEED				10K AIC				120/208 VOLT				BOLT ON BREAKER
NEMA 1	COPPER BUS								200 AMP (BUS RATING)				SURGE PROTECTION
LOAD SERVED	WIRE SIZE	CONDUIT SIZE	LOAD (AMPS) A	B	C	CKT NO.	PHASE A B C	CKT NO.	LOAD (AMPS) A	B	C	CONDUIT SIZE	WIRE SIZE	LOAD SERVED
HP-1	2#10 & 1#10G	3/4"	15			1	30	2	7			3/4"	2#12 & 1#12G	LIGHTS
				15		3	20	4		1		3/4"	2#12 & 1#12G	EXTERIOR LIGHTS (2)
AH-1	3#10 & 1#10G	3/4"			24	5	30	6			–	–	–	SPARE
			24			7	20	8	–			–	–	SPARE
SPARE	–	–		–		9	20	10		–		–	–	SPARE
SPARE	–	–			–	11	20	12			–	–	–	SPARE
SPARE	–	–	–			13	20	14	–			–	–	SPARE
SPARE	–	–		–		15	20	16		12		3/4"	2#12 & 1#12G	OFFICE 104,105 RECPT
SPARE	–	–			–	17	20	18			9	3/4"	2#12 & 1#12G	OFFICE 106 RECPT
SPARE	–	–	–			19	20	20	9			3/4"	2#12 & 1#12G	CONF 107 RECPT
SPARE	–	–		–		21	20	22		11		3/4"	2#12 & 1#12G	BREAKROOM RECPT
SPARE	–	–			–	23	20	24			3	3/4"	2#12 & 1#12G	BREAKROOM RECPT
SPARE	–	–	–			25	60	26	6			3/4"	2#12 & 1#12G	REFRIGERATOR (1)
FUTURE POLE BARN	–	–		–		27	20	28		–		–	–	SPARE
					–	29	30	30			–	–	–	SPARE
FUTURE STORAGE BARN	–	–	–			31	20	32	–			–	–	SPARE
				–		33	20	34		4		3/4"	2#12 & 1#12G	WATER COOLER
SPARE	–	–			–	35	20	36			–	–	–	SPARE
SPARE	–	–	–			37	30	38	–			–	–	SPARE
WH-1	2#10 & 1#10G	3/4"		22		39	20	40		12		1"	2#8 & 1#8G	DOMESTIC BFP
					22	41		42			2	3/4"	2#12 & 1#12G	PHONEBOARD

COORDINATE HVAC BREAKERS AND WIRE SIZES WITH HVAC SUBMITTALS
COORDINATE BREAKERS AND WIRE SIZES FOR OWNER FURNISHED EQUIPMENT WITH SUBMITTALS
PROVIDE SEPARATE NEUTRALS FOR ALL CIRCUITS.

1. PROVIDE WITH CLASS "A" (5mA) GFCI BREAKER (UL 943).
2. WIRE THROUGH PHOTOCELL.

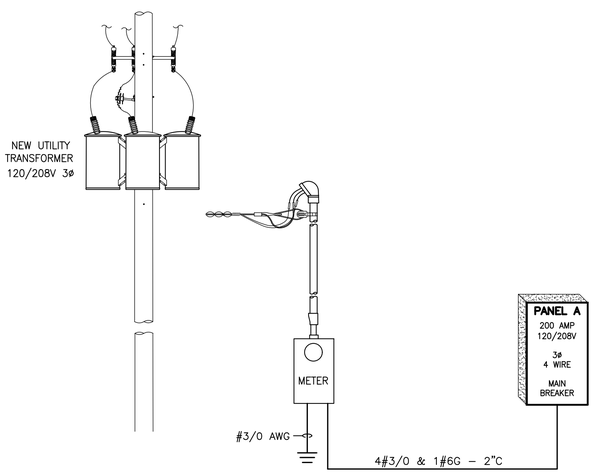
SURGE PROTECTION NOTES:

1. SURGE SUPPRESSION SHALL BE RATED AS FOLLOWS:
   - FACTORY INSTALLED AS AN INTEGRAL PART OF INDICATED PANELBOARDS, COMPLYING WITH UL 1449, 5TH EDITION, SPD TYPE 2
   - MINIMUM SINGLE-PULSE SURGE CURRENT WITH STAND RATING PER PHASE SHALL NOT BE LESS THAN 250kA FOR SERVICE ENTRANCE PANELS AND 150kA FOR SUB-PANELS. THE PEAK SURGE CURRENT RATING SHALL BE THE ARITHMETIC SUM OF THE RATINGS OF THE INDIVIDUAL MOVS IN A GIVEN MODE.
   - LET-THROUGH VOLTAGES BASED ON IEEE TEST WAVES SHALL BE CAT C1 (6KV, 3KA) 400V FOR 208V PANEL AND 800V FOR 480V PANELS.
   - PROTECTION MODES AND UL1449VPR SHALL BE: 700V LINE TO NEUTRAL, 700V LINE TO GROUND, 600V NEUTRAL TO GROUND, & 1000V LINE TO LINE.
   - SHORT CIRCUIT CURRENT RATING GREATER THAN PANELBOARD
   - INOMINAL RATING OF 20KA.

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
INDOOR LIGHTING	= 0.8	100%	= 0.8
OUTDOOR LIGHTING	= 0.1	100%	= 0.1
RECEPTACLES (1ST 10 KVA)	= 5.3	100%	= 5.3
RECEPTACLES (ABV 10 KVA)	=	50%	=
HVAC	= 8.1	100%	= 8.1
HVAC (NON-COINCIDENTAL)	=	0%	=
WATER HEATERS	= 4.6	100%	= 4.6
DEDICATED RECP/EQUIP	= 1.4	100%	= 1.4
TOTALS:	= 20.4 KVA		= 20.4 KVA

MINIMUM PANEL SIZE: 20 KVA X 125% = 25 KVA (71 AMPS)

GROSS PHASE TOTALS (AMPS) A = 61 B = 75 C = 60



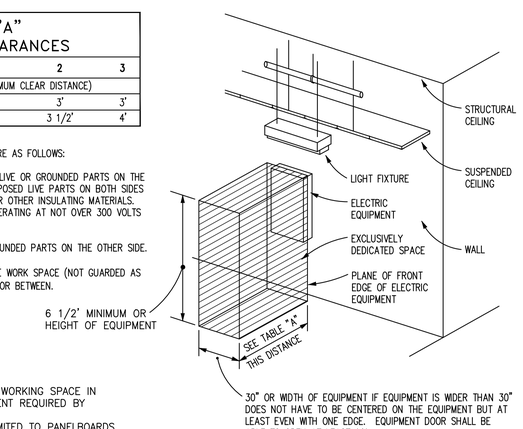
1 ELECTRICAL PANEL RISER
SCALE: N.T.S.

TABLE "A" WORKING CLEARANCES

VOLTAGE TO GROUND	CONDITION: 1	2	3
(NOMINAL)	(MINIMUM CLEAR DISTANCE)		
0-150	3'	3'	3'
151-600	3'	3 1/2'	4'

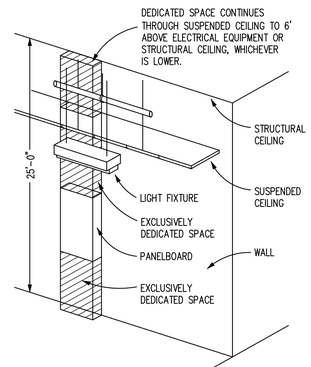
WHERE THE "CONDITIONS" ARE AS FOLLOWS:

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.
3. EXPOSED LIFE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.



NOTES:
1. THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF ELECTRICAL EQUIPMENT REQUIRED BY NEC SECTION 110-26.
2. THIS INCLUDES BUT IS NOT LIMITED TO PANELBOARDS, SAFETY SWITCHES, MOTOR STARTERS, JUNCTION BOXES AND OTHER ELECTRICAL EQUIPMENT.

ALL ELECTRIC EQUIPMENT



NOTES:
1. THIS FIGURE ILLUSTRATES THE ADDITIONAL EXCLUSIVELY DEDICATED SPACE REQUIRED OVER AND UNDER PANELBOARDS FOR CABLES, RACEWAYS, ETC. TO AND FROM PANELBOARDS REQUIRED BY NEC SECTION 110-26.
2. NO PIPING DUCTWORK 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. FOR EXCEPTIONS SEE NEC SECTION 110-26f.

PANELBOARDS

2 DEDICATED WORKING SPACE REQUIREMENTS
SCALE: N.T.S.

WALKER the GROUP ARCHITECTURE

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PROJECT NO. 224007 | PROJECT MGR. D. HAM | DRAWN BY D. HILL

NORTH CAROLINA PROFESSIONAL SEAL 31466 ENGINEER JAMES D. HAM 9/12/25

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Project Number 23-26839-01 | Date 9/12/25
Drawn | Checked

Scale: AS NOTED

Drawing Title: **ELECTRICAL SCHEDULES**

Sheet Number: 5 Of 5

Drawing Number: E-301