NC Forest Service County Office for Jones County

DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES SCO# 23-26839-01B



VICINITY MAP



PROJECT LOCATION, JONES COUNTY, NC

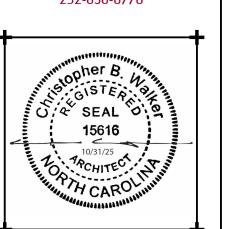
LOCATION MAP



PROJECT SITE

LIST OF SHEETS

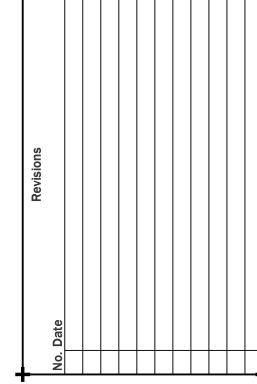
GI001 GI002 GI003 C-001 C-100 C-101	TITLE SHEETS, SHEET LIST & LOCATION MAPS CODE ANALYSIS LIFE SAFETY PLAN
GI002 GI003 C-001 C-100	CODE ANALYSIS LIFE SAFETY PLAN
GI002 GI003 C-001 C-100	CODE ANALYSIS LIFE SAFETY PLAN
GI003 C-001 C-100	LIFE SAFETY PLAN
C-001 C-100	
C-100	CIVIL NOTES I FOEND AND ADDREVIATIONS
C-100	TOME MOTEC LECEND AND ADDDEMATIONS
	CIVIL NOTES, LEGEND AND ABBREVIATIONS
C-101	SITE PLAN-EXISTING CONDITIONS AND DEMOLITION
	SITE LAYOUT PLAN
C-102	SITE GRADING PLAN
C-103	SITE UTILITY PLAN
CS501	DETAILS
CS502	DETAILS
CG501	EROSION CONTROL DETAIL
CG502	EROSION CONTROL NOTES
CU501	UTILITY DETAILS
	·
A-001	ARCHITECTURAL NOTES & SYMBOLS
A-101	FLOOR PLAN
A-102	REFLECTED CEILING PLAN
A-103	ROOF PLAN
A-104	DECK FRAMING PLAN
	EXTERIOR ELEVATIONS
	EXTERIOR ELEVATIONS
	BUILDING SECTION
	WALL SECTIONS
	ENLARGED PLAN & DETAILS
	DETAILS
	DETAILS
	SIGNAGE DETAILS
A-601	SCHEDULES & DETAILS
	STRUCTURAL GENERAL NOTES
	FOUNDATION PLAN
	FIRST FLOOR FRAMING PLAN
S-103	ROOF FRAMING PLAN
S-201	TYPICAL SECTIONS
P-001	PLUMBING NOTES & LEGEND
P-101	PLUMBING PLANS
P-102	PLUMBING PLANS
P-201	PLUMBING DETAILS
P-202	PLUMBING DETAILS
P-301	PLUMBING SCHEDULES
M-001	MECHANICAL NOTES & LEGEND
M-101	MECHANICAL PLANS
	MECHANICAL DETAILS
	MECHANICAL SCHEDULES
111 00 1	
F_001	ELECTRICAL NOTES
	ELECTRICAL NOTES ELECTRICAL PLANS
	ELECTRICAL PLANS ELECTRICAL PLANS
	ELECTRICAL DETAILS ELECTRICAL SCHEDULES
	CS501 CS502 CG501 CG502 CU501 A-001 A-101 A-102 A-103 A-104 A-201 A-202 A-301 A-302 A-401 A-501 A-502 A-503 A-601 S-001 S-101 S-102 S-103 S-201 P-001 P-101 P-102 P-201 P-202 P-301



New NC Forest Service County Office for Jones County

NC Highway 58 S Jones County, NC 28585

ISSUED FOR CONSTRUCTION SCO# 23-26839-01B



2318.NCFS

TRA

Scale
AS NOTED

Drawing Title TITLE SHEETS,

Date 10/31/25

SHEET LIST & **LOCATION MAPS**

ADDITIVE BID ALTERNATES

BID ALTERNATE 01:
PROVIDE OWNER PREFERRED COMPLETE SEPTIC SYSTEM. SEE CIVIL DRAWINGS.

BID ALTERNATE 02:
PROVIDE SOD IN ALL AREAS OF DISTURBANCE PER THE CIVIL DRAWINGS. BASE BID SHALL BE TO PROVIDE SEED AND ESTABLISH GRASS PER THE CIVIL

GOVERNING REGULATIONS

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)

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)

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

Code Enforcemen	ized Agent: Ch	City/County	Phone # : 25	Private	Email : chris@ v	x State
	nt Jurisdiction:	City		X County	Jones County	X State
CONTACT						
DESIGNER F Architectural Th	IRM ne Walker Group A	Architecture, Inc.	NAME Chris Walker	LICENSE # 	TELEPHONE # 252-636-8778	EMAIL chris@wgarc.com
Civil Electrical	ntech Engineering	Į.	Derrick Ham	31466	919-778-9064	dham@entech-pme.com
Fire Alarm Plumbing	ntech Engineering	1	Derrick Ham	31466	919-778-9064	dham@entech-pme.com
Sprinkler-Standp			Derrick Ham	31466	919-778-9064	dham@entech-pme.com
Retaining Walls	arion Engineering > 5' High	1	Shannon Weaver	028643	910-376-5582	sweaver@larion.net
Other ("Other" should in	nclude firms an	d individuals such	as truss, precast, pre-	engineered, inter	rior designers, etc.)	
2018 NC BUILD CODE:	ING	X New Bu	ъ <u> </u>		vation	
		Shell/C	e Interior Completion ore - Contact the loca		sdiction for possible	<u>additi</u> onal
		Phased	res and requirements Construction- Shell/C			isdiction for
2015 NC EXIST	ING	possible	e additional procedure Prescriptiv	Ċ		4
BUILDING CO	DE:		Level I	Level	II Level III	
CONCED	HCTED (1.4		Historic Pr		Change of	
CONSTR RENOVA)			S): (Ch.3): (B) Busi	
RISK CATEGO		,	rrent: I I	п 🔲 п	☐ IV	
	<u>.</u>	Prop	osed: X	п пп	☐ IV	
BASIC BUILDI						
Construction Ty (Check all that a		I-A	II-A	III-A	☐ IV	V-A V-B
		I-B	II-B	III-B		X V-B
Sprinkler:	X No	Partial	Yes	NFPA 13	NFPA 13R	NFPA 13D
Standpipes:	X No		Class I	п Піп	Wet Dr	
Fire District:	X No	Yes	Flood	Hazard Area:	X No Ye	s
Special Inspection Required:	ons	X No	Yes (Contact the local procedures and to		isdiction for addition	al
			Gross Buildin	g Area Table		
FLOOR 3rd Floor	EX	KISTING (SQ.FT)	N	EW (SQ.FT)		SUBTOTAL
2nd Floor						
Mezzanine 1st Floor			1	200 SF		1200 SF
Basement TOTAL				200 SF		1200 SF
			ALLOWAB	LE AREA		
Primary Occupa	ncy Classifica	tions(s):				
Assembly	A-1	A-2	A-3	A-4	A-5	
	X					
Business Education	al					
		Ioderate F-1	Low			
Education Factory Hazardou	F-1 M	Detonate H-2	2 Deflagrate H-3	Combust	H-4 Health	Н-5 НРМ
Education Factory	F-1 M s H-1 D nal I-1 Co			Combust	H-4 Health	Н-5 НРМ
Education Factory Hazardou	F-1 M F-1 M I-1 C I-2 C	Detonate H-2	2 Deflagrate H-3	Combust	H-4 Health	Н-5 НРМ
Education Factory Hazardou Institution	F-1 M S H-1 C al I-1 C I-2 C I-3 C I-4	Detonate H-2 ondition 1 ondition 1	P. Deflagrate H-3	Combust	H-4 Health	Н-5 НРМ
Education Factory Hazardou	F-1 M s H-1 E nal I-1 Cc I-2 Cc I-3 Cc I-4	Detonate H-2 ondition 1 ondition 1	P. Deflagrate H-3 2 2 2 2	Combust	H-4 Health	Н-5 НРМ
Education Factory Hazardou Institution Mercantil	F-1 M S H-1 C I-1 C I-2 C I-3 C I-4 E I R-1 S-1 M	Detonate H-2 condition 1 condition 1 condition 1 condition 1 condition 1 condition S-2 condition S-2	P. Deflagrate H-3 2 2 2 2 2 3 R-4 Low High	n-Piled		Н-5 НРМ
Education Factory Hazardou Institution Mercantil Residentia	F-1 M S H-1 C I-1 C I-2 C I-3 C I-4 E I R-1 S-1 M	Detonate H-2 condition 1 condition 1 condition 1 condition 1	P. Deflagrate H-3 2 2 2 2 2 3 R-4 Low High			H-5 HPM
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	ALLOWABLE	SHOWN ON PLAN	CODE REFERENCE ¹
Building Height in Feet (Table 504.3 ²)	40'	20'-10"	503
Building Height in Stories (Table 504.4)	1	1	503

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

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE	RATING		DETAIL	DESIGN #	DESIGN # FOR	DESIGN
D	PARATION ISTANCE (FEET)	REQ'D	PROVIDED (W/ REDUCTION)	# AND SHEET #	FOR RATED ASSEMBLY	RATED PENETRATION	# 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	n						
Fire Area Separation							
Smoke Barrier Separation							
Smoke Partition							
Tenant/Dwell. Unit/ Sleeping Un	it 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 PLAN (%)

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	
Carbon Monoxide Detection:	X No	Yes

LIFE SAFETY PLAN REQUIREMENTS

```
Life Safety Plan Sheet # Gl003
        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)
            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
         Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
        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	TOTAL # OF P.	ARKING SPACES	# OF ACCESS	TOTAL #		
PARKING AREA	REQUIRED	PROVIDED	REGULAR WITH	VAN SPAC	ES WITH	ACCESSIBLE PROVIDED
			5' ACCESS AISLE	132" ACCESS AISLE	8' ACCESS AISLE	
TOTAL	4	6			2	2

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

	USE	WA	TERCLOS	SETS	URINALS		AVATOR		SHOWERS	DRINKING	FOUNTAINS
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX	/ TUBS	REGULAR	ACCESSIBLE
SPACE	EXISTING										
	NEW			1				1			1
	REQUIRED			1				1			1

SPECIAL APPROVALS

```
(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
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
                                           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
U-Value of total assembly
0,04

Description of assembly
0,04
                     R-Value of insulation
                    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 WOO DSTUDS AT 16" O.C., R-20 BATT INSULATION,
                   Description of assembly:
U-Value of total assembly:
0.056
R-Value of insulation
Openings (windows or doors with glazing)
U-Value of assembly:
0.60
Solar heat gain coefficient:
0.25
Projection factor:
0.45
                             Projection factor:
Door R-Values:
        Walls below grade (each assembly)
Description of assembly:
U-Value of total assembly:
                    R-Value of insulation
        Floors over unconditioned space (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation

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

STRUCTURAL DESIGN

DESIGN LOADS:

```
Live Loads:

        Mezzanine
        psf

        Floor
        50/100
        psf

                      Ultimate Wind Speed 130 mph (ASCE-7-10)
                      Exposure Catgory C
                                                  В
                                                               __ C ____ D
SEISMIC DESIGN CATEGORY:
Provide the following Seismic Design Paramaters:
     Occupancy Category (Table 1604.5)
                                     S_S <u>0.106G</u> \%_g S_1 <u>0.052G</u> \%_g
     Spectral Response Acceleration
                                     \square A \square B \square C \blacksquare D \square E \square F
     Site Classification (ASCE 7)
     Date Source:
                                       Field Test Presumptive Historical Data
                                      Bearing Wall
                                                                 Dual w/Special Moment Frame
     Basic Structural System
                                       Building Frame
                                                                  Dual w/Intermediate R/C or Special Steel
                                       Moment Frame
                                                                 Inverted Pendulum
     Analysis Procedure: Simplified X Equivalent Lateral Force Dynamic
     Architectural, Mechanical, Components anchored? Yes No
LATERAL DESIGN CONTROL:
SOIL BEARING CAPACITY:
     Field Test (provide copy of test report)
     Presumtive Bearing capacity
     Pile size, type and capacity
```

MECHANICAL DESIGN

```
MECHANICAL SUMMARY
MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
        Thermal Zone
            winter dry bulb summer dry bulb 93° 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
            description of unit heating efficiency cooling efficiency size category of unit Boiler

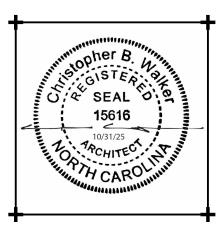
SPLIT SYSTEM HEAT PUMP
80%
19 SEER
            size category. If oversized, state reason.
Chiller
             size category. If oversized, state reason.
       List Equipment efficiencies SEE MECHANICAL SCHEDULES
```

ELECTRICAL DESIGN (SEE ELECTRICAL DRAWINGS)

```
ELECTRICAL SUMMARY
ELECTRICAL SYSTEM AND EQUIPMENT
                               Energy Code Prescriptive Performance
        Method of
        Compliance:
                               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
```



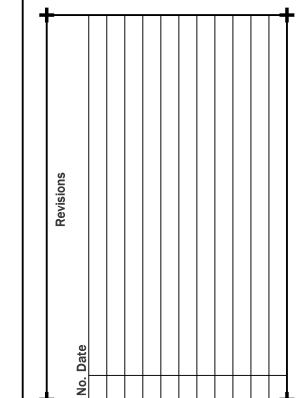
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New NC Forest Service County Office for Jones County

NC Highway 58 S Jones County, NC 28585

ISSUED FOR CONSTRUCTION SCO# 23-26839-01B



Project Number 2318.NCFS Drawn

Author

Scale **AS NOTED Drawing Title**

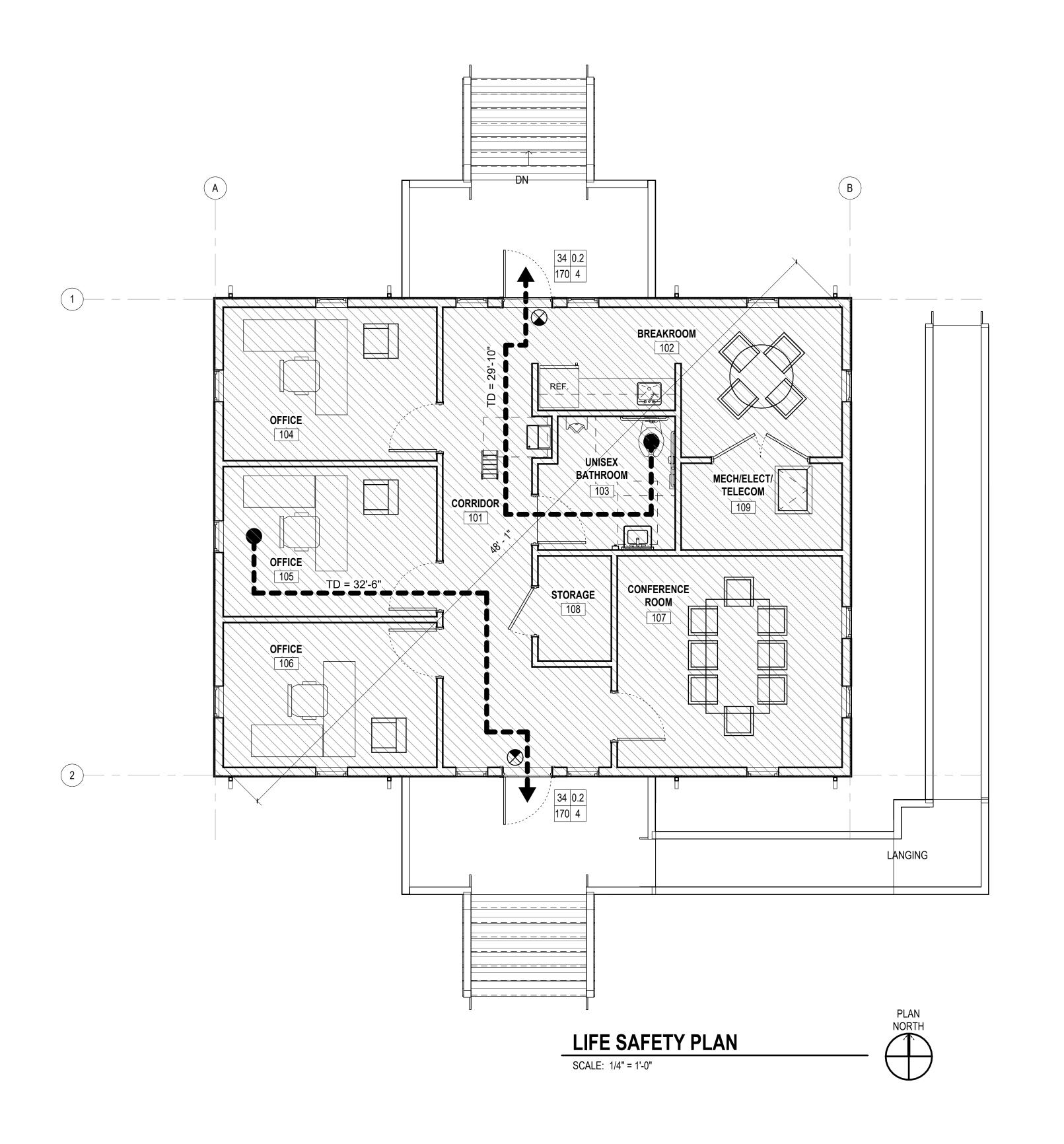
CODE ANALYSIS

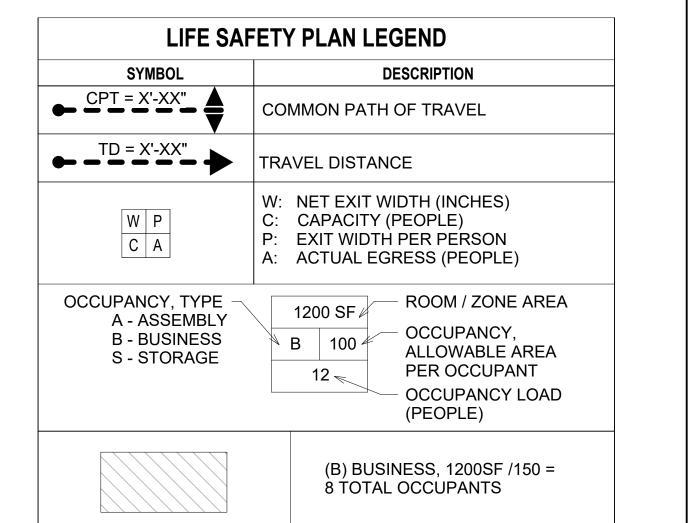
10/31/25

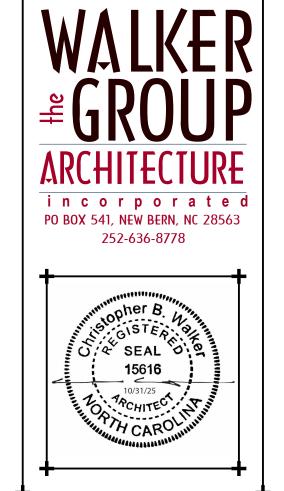
Checked

Checker

Sheet Number 2 **Of** 47



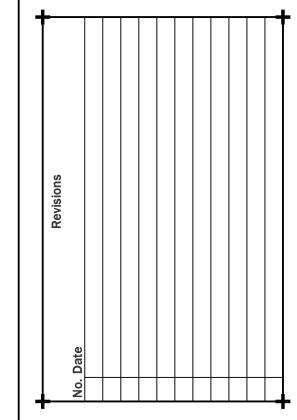




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Project Number 2318.NCFS

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Scale
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LIFE SAFETY PLAN

Date 10/31/25

Checked Checker

Sheet Number

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.
- BURNING ON THE PROPERTY IS NOT PERMITTED.

	CIVIL LEGEND		AB	BREVIATIONS
EXISTING	DESCRIPTION	NEW	APPROX.	APPROXIMATE/APPROXIMATELY
○ CO TPED ☑ Ⅱ ○ CO TPED ☑ Ⅲ ○ ○ ○ ◆ — — — — — — — — — — — — — — — — — —	WATER VALVE SANITARY SEWER CLEANOUT COMMUNICATIONS PEDESTAL UTILITY POLE/POLE WITH LIGHT FIRE HYDRANT GUY WIRE SANITARY SEWER (GRAVITY) STORM SEWER WATER OVERHEAD ELECTRICAL UNDERGROUND ELECTRICAL UNDERGROUND COMMUNICATIONS UNDERGROUND GAS FENCE CONCRETE ASPHALT GRAVEL	> CO	CJ CL, C/L CF CONT. CMP CONC. CPP CUMM. DIA, Ø DI DMH EL=, ELEV E: ELEC. ETC. EX., EXIST. FES FH HVAC	CONTRACTION JOINT CENTER LINE CUBIC FEET CONTINUOUS CORRUGATED METAL PIPE CONCRETE CORRUGATED PLASTIC PIPE CUMULATIVE DIAMETER (STORM DRAIN) DROP INLET DRAINAGE MANHOLE ELEVATION EASTING ELECTRIC; ELECTRICAL ET CETERA
	SILT FENCE	—···— SLT —···—	INV	INVERT
▲ × 5.00 	SURVEY CONTROL POINT SPOT ELEVATIONS SIGN	+ XX.XX	LF MAG MAX MIN N:	LINEAR FOOT/FEET MAG NAIL (CONTROL) MAXIMUM MINIMUM NORTHING
	DEMOLITION ITEMS		NO./# PIV PVC RCP SMH SF SLT SQ. TBM TYP.	NUMBER POST INDICATOR VALVE POLYVINYL CHLORIDE (PIPE) REINFORCED CONCRETE PIPE SANITARY SEWER MANHOLE SQUARE FOOT/FEET SILT FENCE SQUARE TEMPORARY BENCHMARK TYPICAL

EROSION CONTROL NOTES:

SCHEDULE OF EROSION AND SEDIMENTATION CONTROL ACTIVITIES

- INSTALL SILT FENCING, GRAVEL CONTROL ENTRANCE AND CHECK DAMS AS INDICATED.
 COMPLETE SITE CONSTRUCTION AS INDICATED.
 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.

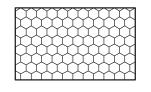
SPECIAL SEEDING NOTE:

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 169,838 SF, 3.90 ACRES

OTF:

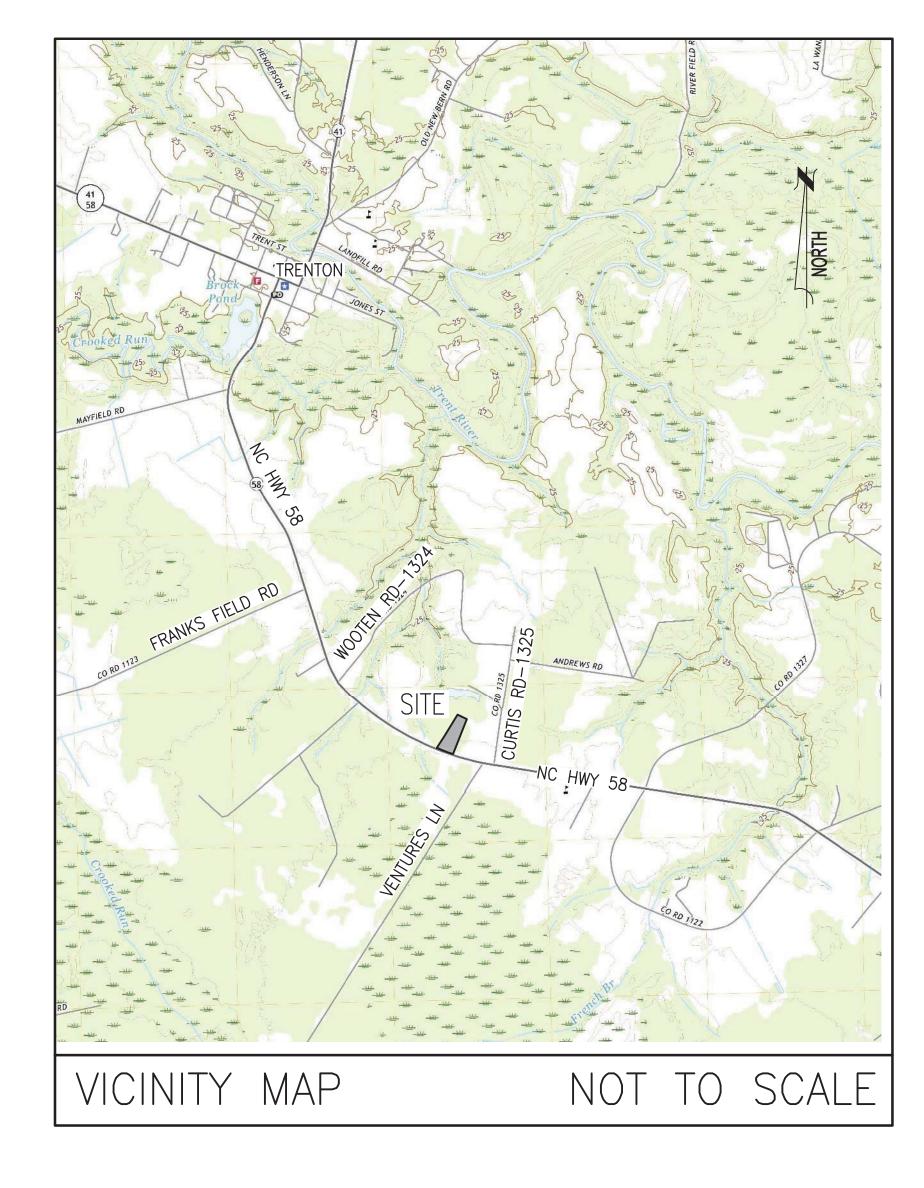
ALL FILL MATERIAL NEEDED TO EXECUTE THIS PROJECT SHALL BE OBTAINED FROM AN NCDEQ NCDEMLR PERMITTED BORROW PIT.

NOTE:

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

THE PROJECT DRAINS TO CROOKED RUN SURFACE WATER CLASSIFICATION: C,Sw,NSW STREAM INDEX: 27-101-18

THE PROJECT SITE IS NOT LOCATED IN ANY SPECIAL FLOOD HAZARD AREAS OR FUTURE CONDITIONS FLOOD HAZARD AREAS, AS SHOWN ON FEMA MAP NUMBER 3720449700J, PANEL 4497 EFFECTIVE JULY 2, 2024.



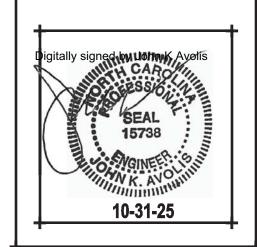
WALKER
GROUP

GROUP

ARCHITECTURE

in corporated

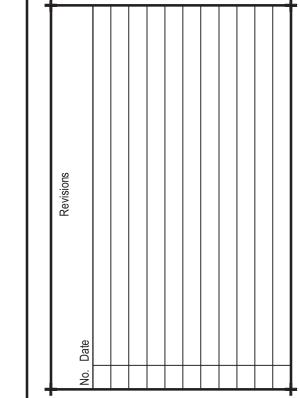
POBOX541, NEW BERN, NC 28563
2526368778



New NC Forest Service County Office for Jones County

NC HIGHWAY 58 S JONES COUNTY, NC 28585

ISSUED FOR CONSTRUCTION SCO# 23-26839-01B



Project Number **2318.NCFS**

Drawn **MSP**

SP ale Date **10-31-25**

Checked **JKA**

Scale
AS NOTED
Drawing Title

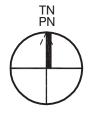
CIVIL NOTES, LEGEND AND ABBREVIATIONS

Sheet Number 4 Of 47

Drawing Number

CIVIL NOTES, LEGEND AND ABBREVIATIONS

SCALE: 1" = 40



WWF

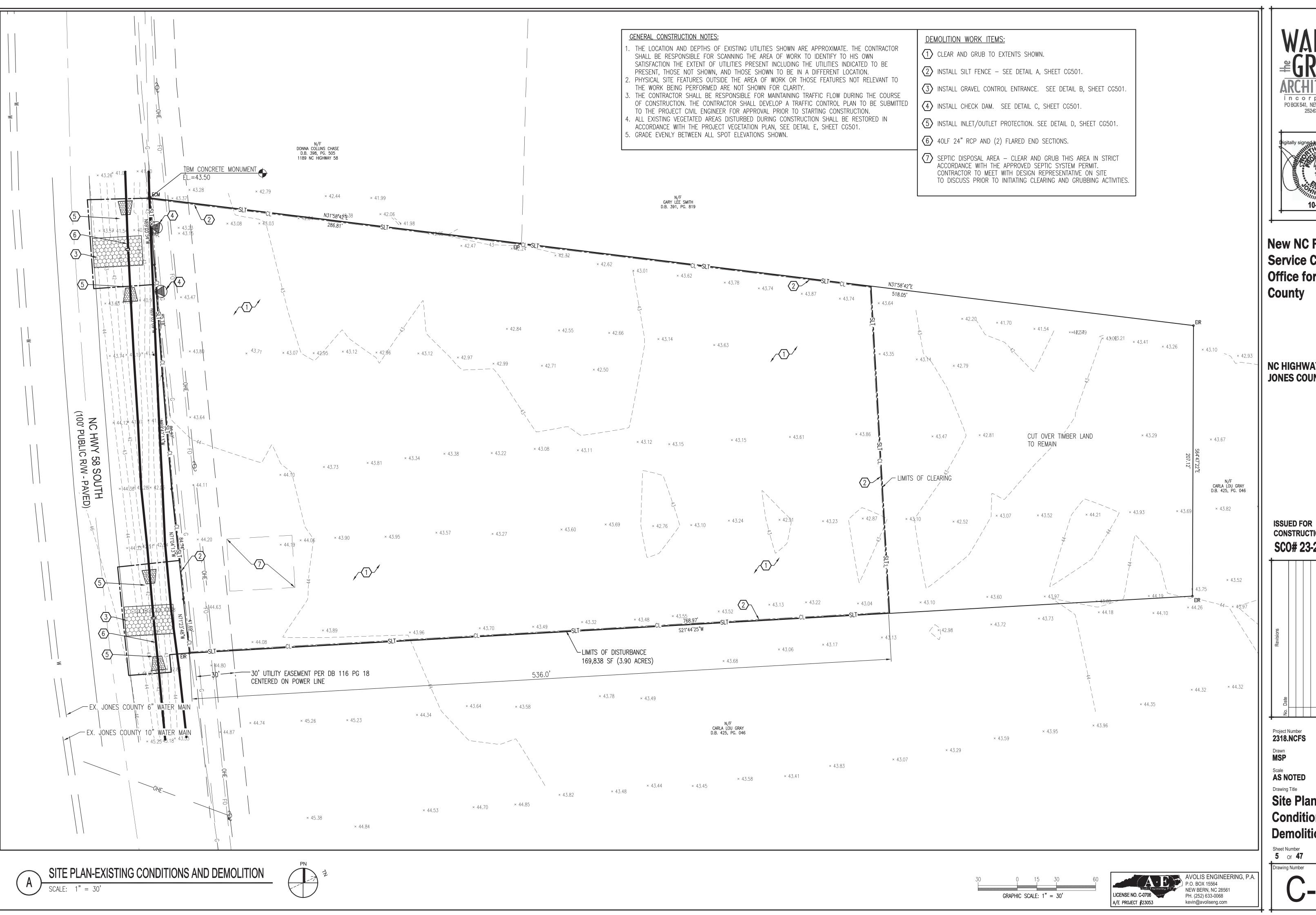
VOLUME WELDED WIRE FABRIC

PLUS OR MINUS

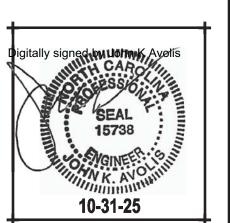
AND

PERCENT EQUALS

AVOLIS ENGINEERING, P.A.
P.O. BOX 15564
NEW BERN, NC 28561
PH. (252) 633-0068
kevin@avoliseng.com



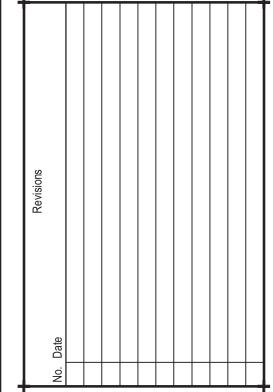
incorporated POBOX 541, NEW BERN, NC 28563 2526368778



New NC Forest Service County Office for Jones

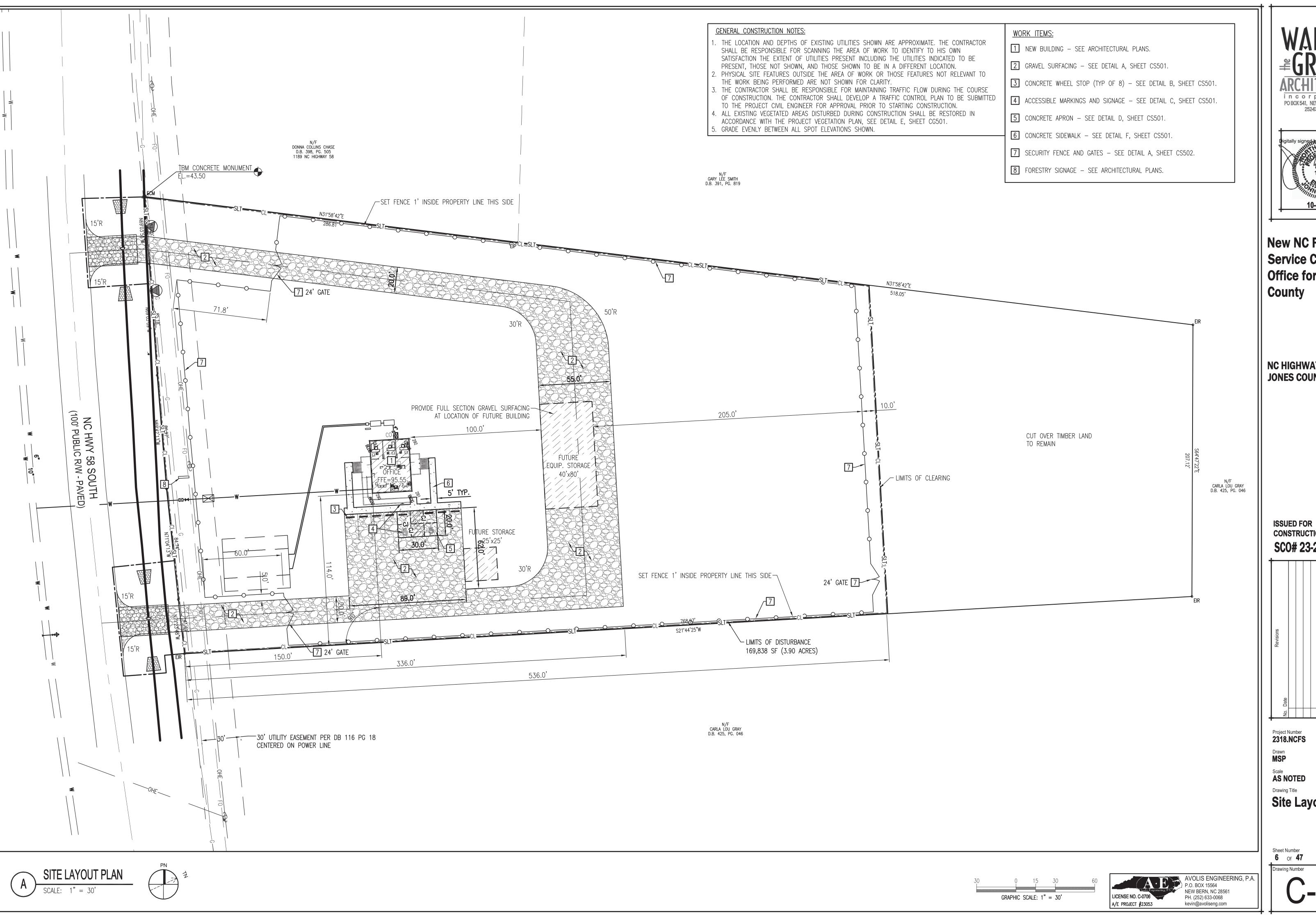
NC HIGHWAY 58 S **JONES COUNTY, NC 28585**

CONSTRUCTION SCO# 23-26839-01B

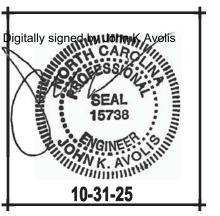


Date **10-31-25** Checked **JKA**

Site Plan - Existing **Conditions and Demolition**



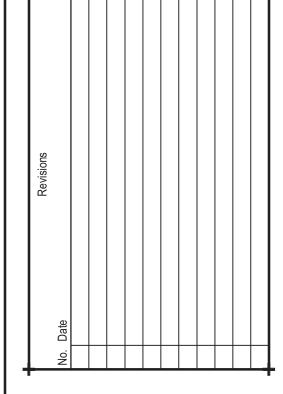
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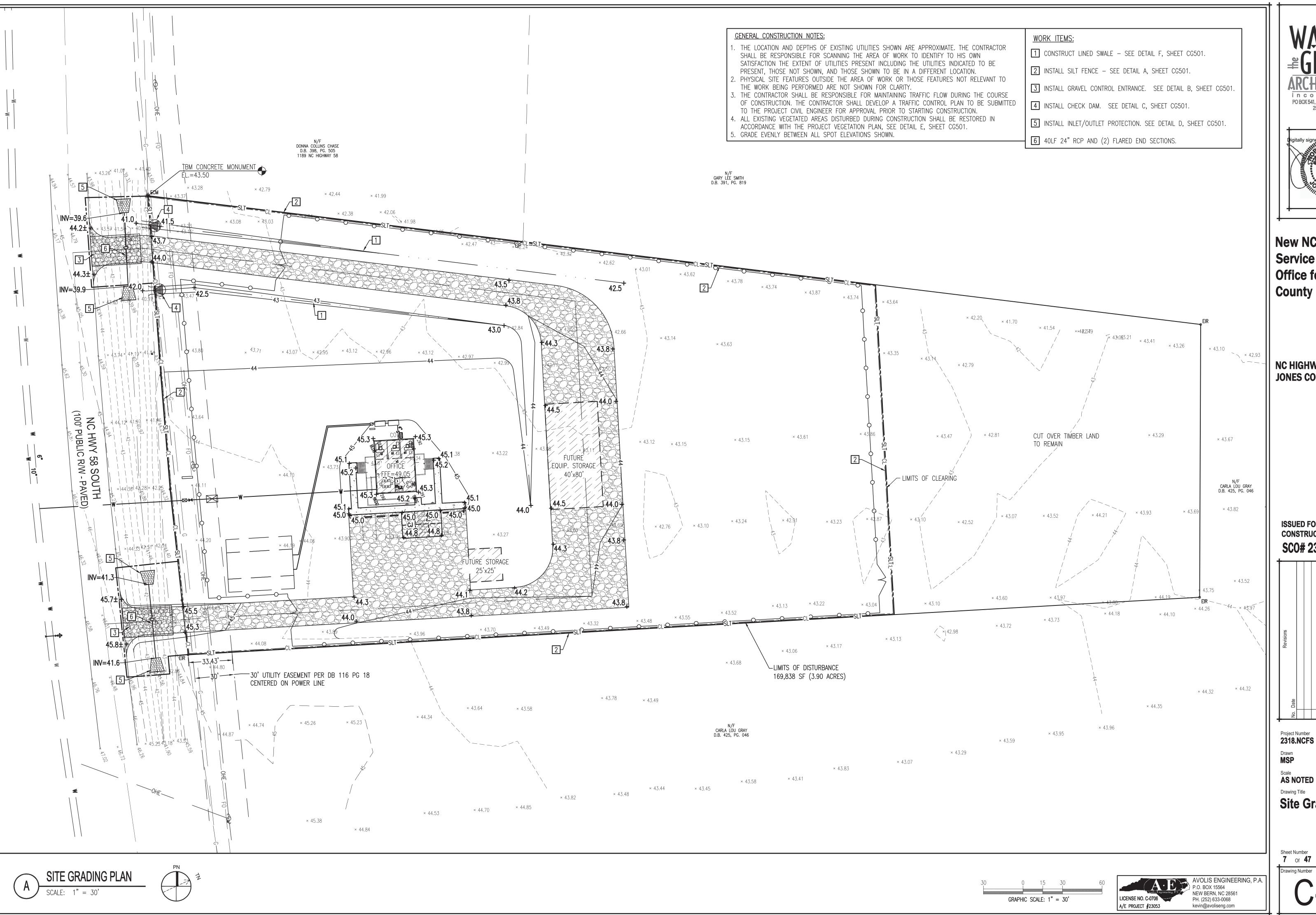
CONSTRUCTION SCO# 23-26839-01B



Date **10-31-25** Checked **JKA**

Site Layout Plan

Sheet Number 6 Of 47



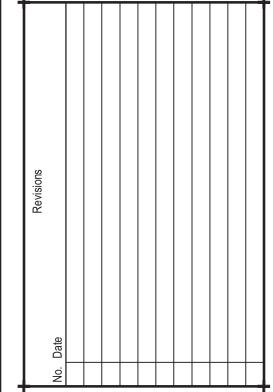
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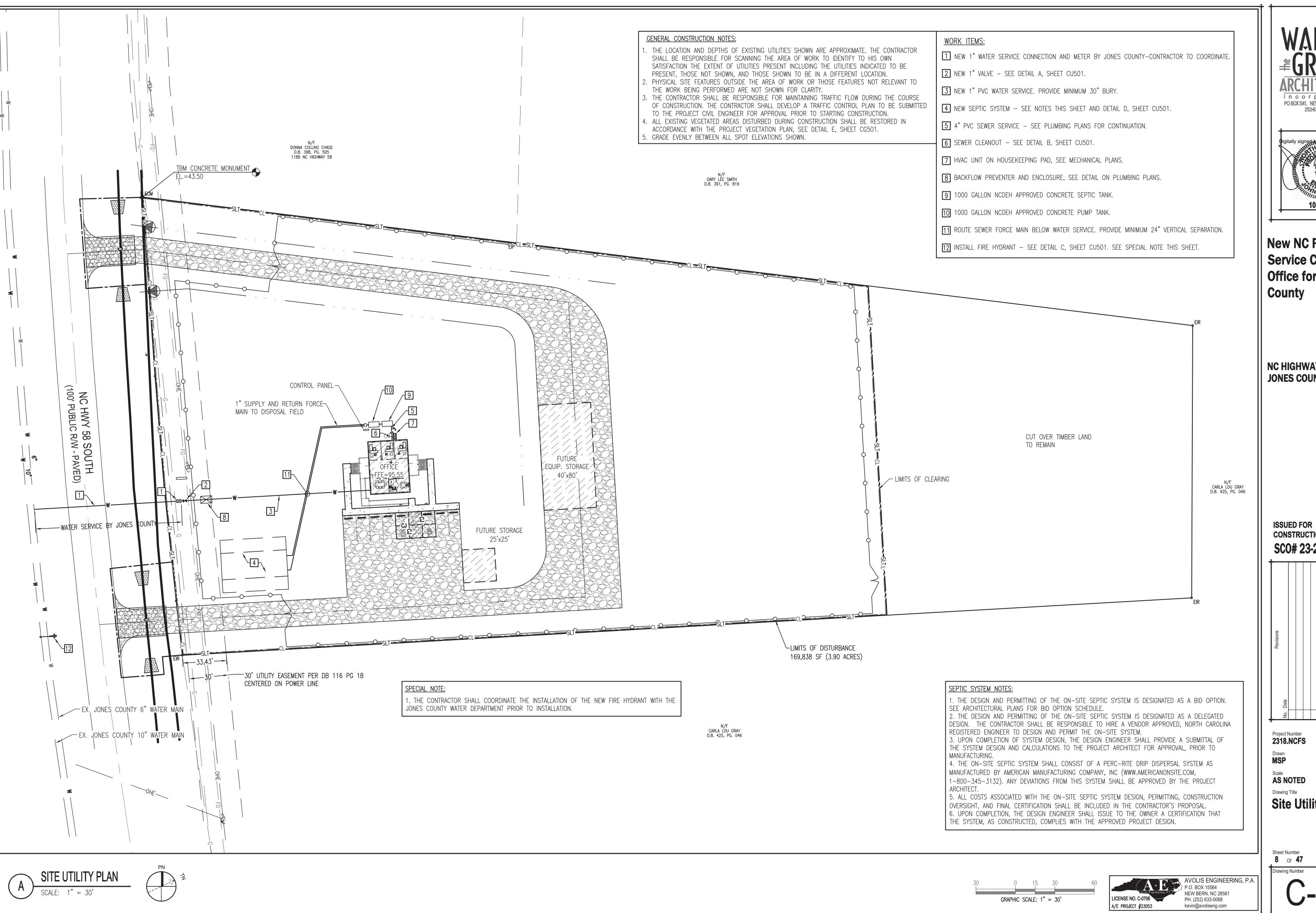
10-31-25

NC HIGHWAY 58 S **JONES COUNTY, NC 28585**

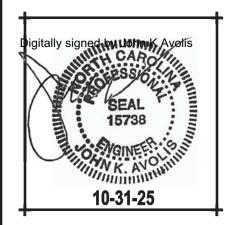
ISSUED FOR CONSTRUCTION SCO# 23-26839-01B



Site Grading Plan



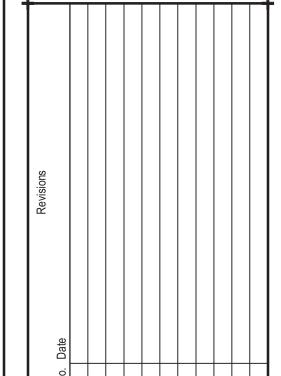
incorporated POBOX 541, NEW BERN, NC 28563



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NC HIGHWAY 58 S **JONES COUNTY, NC 28585**

CONSTRUCTION SCO# 23-26839-01B



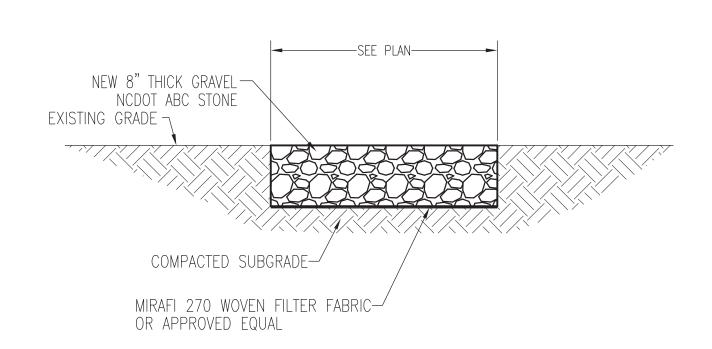
2318.NCFS

Date **10-31-25**

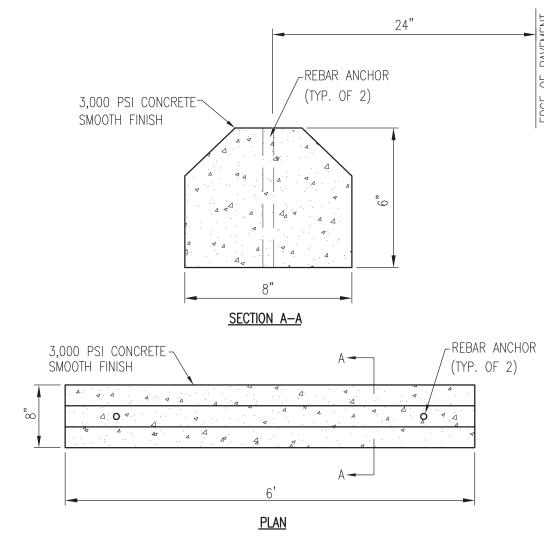
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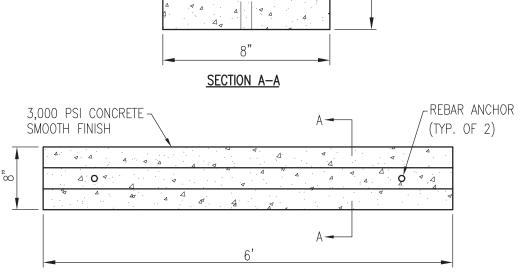
Site Utility Plan

8 of **47**



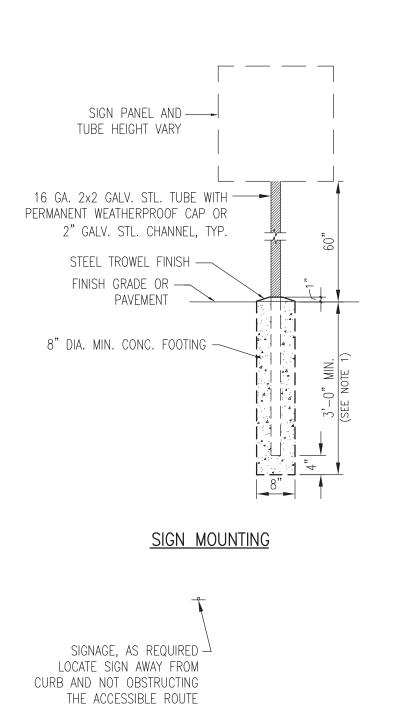






CONCRETE WHEEL STOP

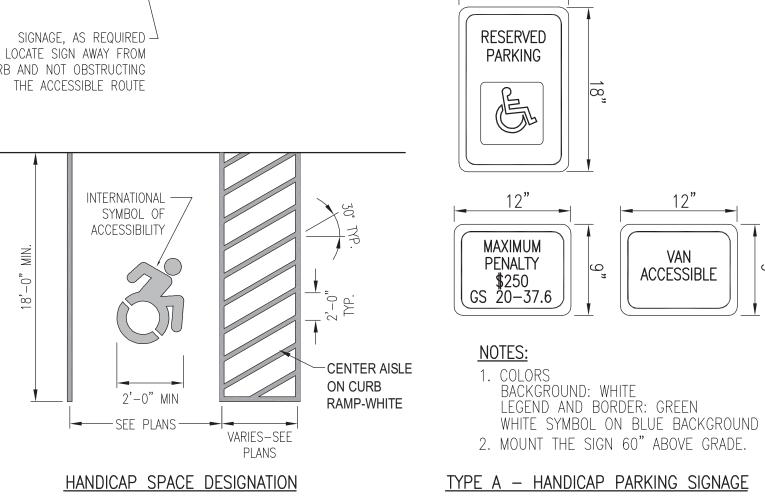
NOT TO SCALE



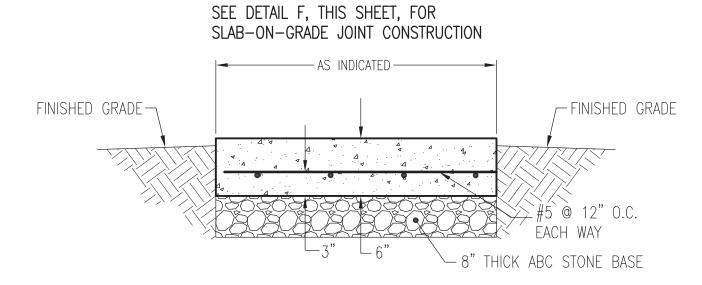
ALL SIGNAGE TO CONFORM TO US DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009 EDITION (OR CURRENT IF NEWER).



PAVEMENT MARKING

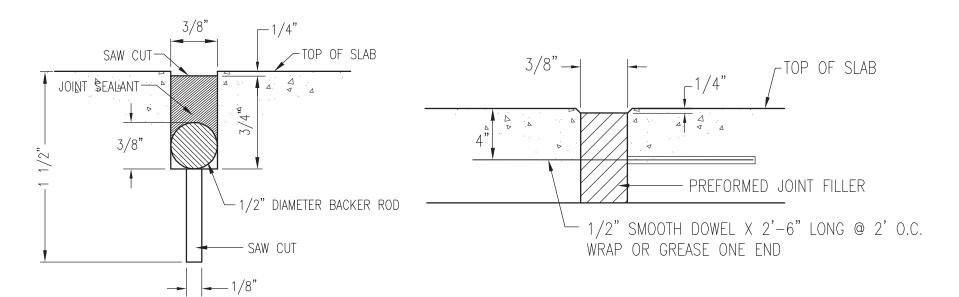


ACCESSIBLE MARKINGS AND SIGNAGE NOT TO SCALE



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

CONCRETE APRON

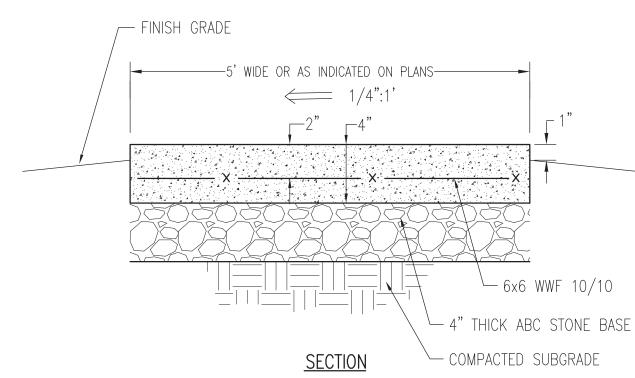


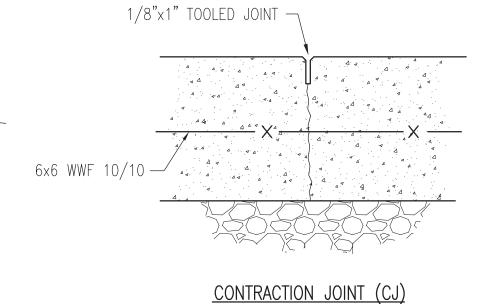
TYPICAL SLAB-ON-GRADE JOINT (CJ)

EXPANSION JOINT (EJ)

LEGEND: CJ=CONTRACTION JOINT EJ=EXPANSION JOINT

SLAB-ON-GRADE JOINTS





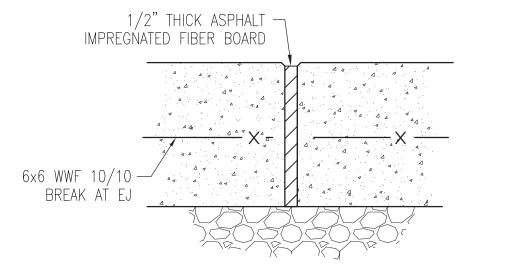
1. PROVIDE EXPANSION JOINTS ALONG ALL EXISTING STRUCTURES AND WALKS AND AT 20' INTERVALS ALONG STRAIGHT SECTIONS OF WALK.

- 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.

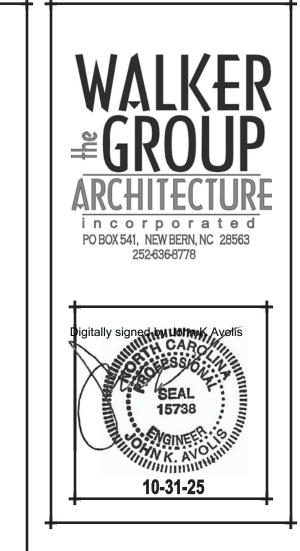
NOTES:

5. PROTECT WORK IN PLACE FROM VANDALISM, GRAFFITI, ETC... UNTIL





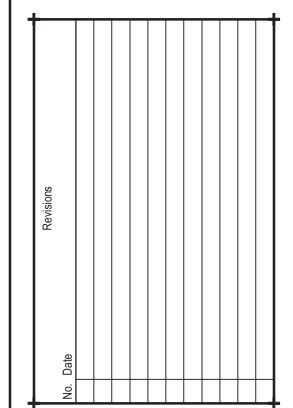
EXPANSION JOINT (EJ)



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NC HIGHWAY 58 S **JONES COUNTY, NC 28585**

ISSUED FOR CONSTRUCTION SCO# 23-26839-01B



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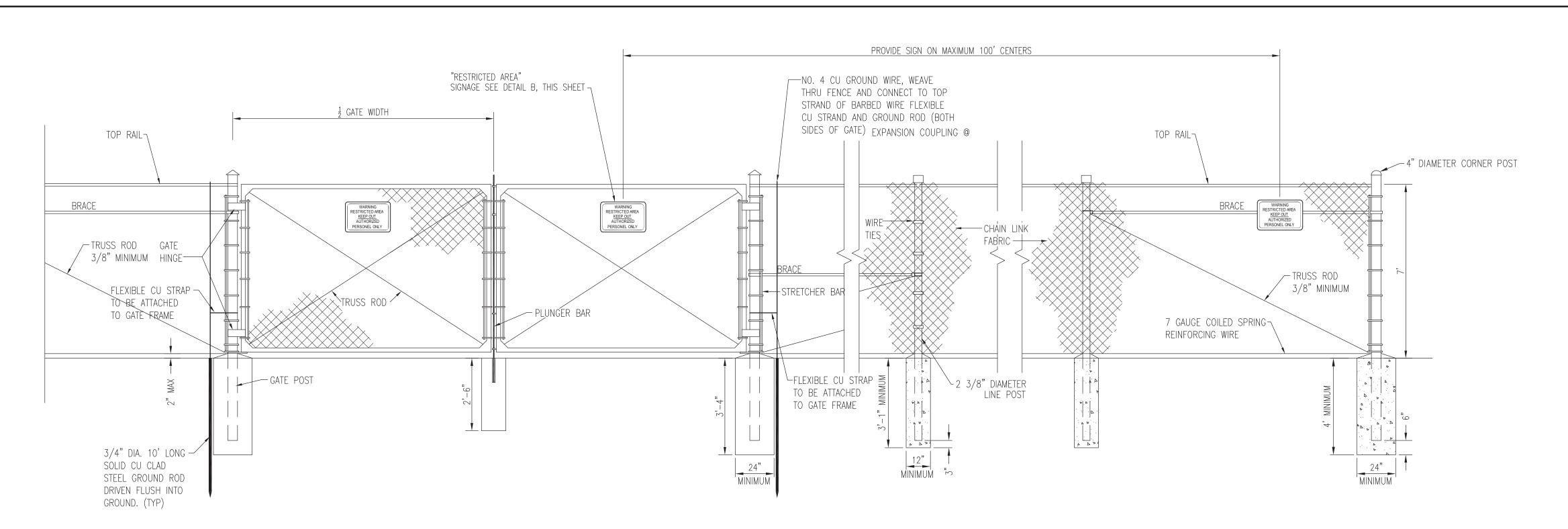
Project Number 2318.NCFS

Drawn MSP

Scale AS NOTED Drawing Title

DETAILS

Sheet Number 9 of **47**

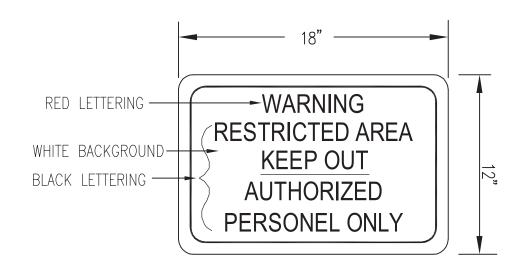


FENCE NOTES:

- 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.

CHAIN LINK FENCE





RESTRICTED AREA SIGNAGE

NOTES:

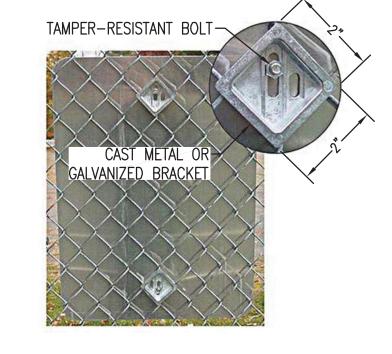
1. MOUNT SIGN ON FENCE ON EACH FACE OF FENCE AND ON EACH GATE LEAF, ALL FACING TO THE UNPROTECTED SIDE OF

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



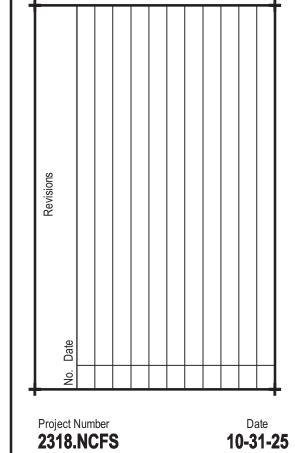
NOT TO SCALE



Service County Office for Jones County

NC HIGHWAY 58 S **JONES COUNTY, NC 28585**

ISSUED FOR CONSTRUCTION SCO# 23-26839-01B



Checked **JKA**

Project Number **2318.NCFS**

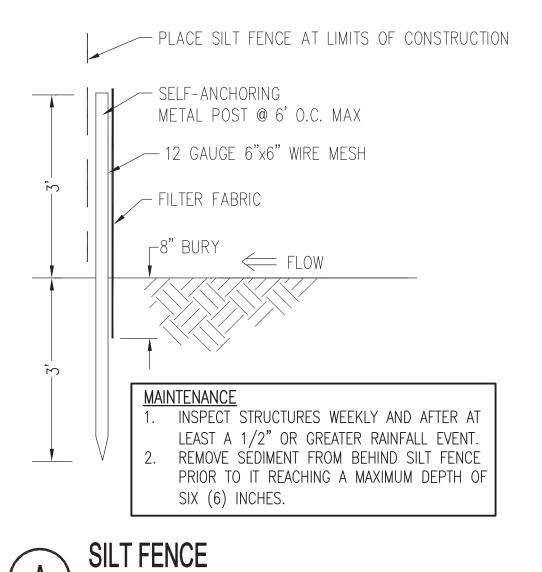
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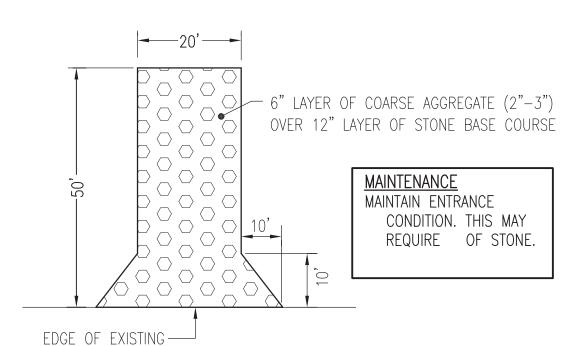
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Drawing Title

DETAILS

Sheet Number 10 Of 47

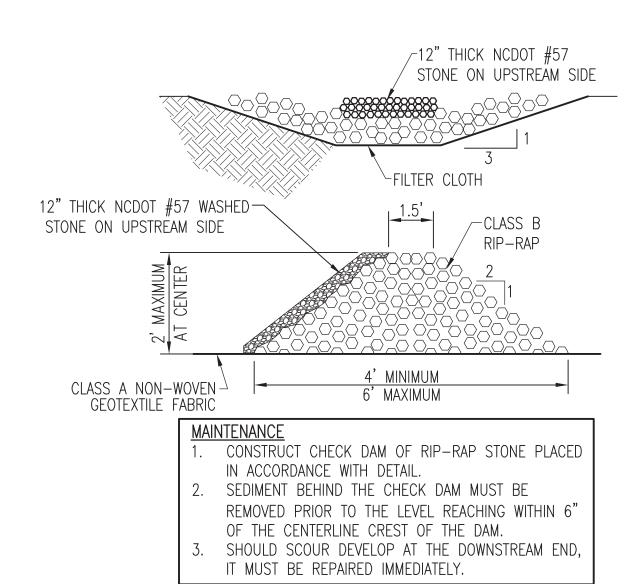




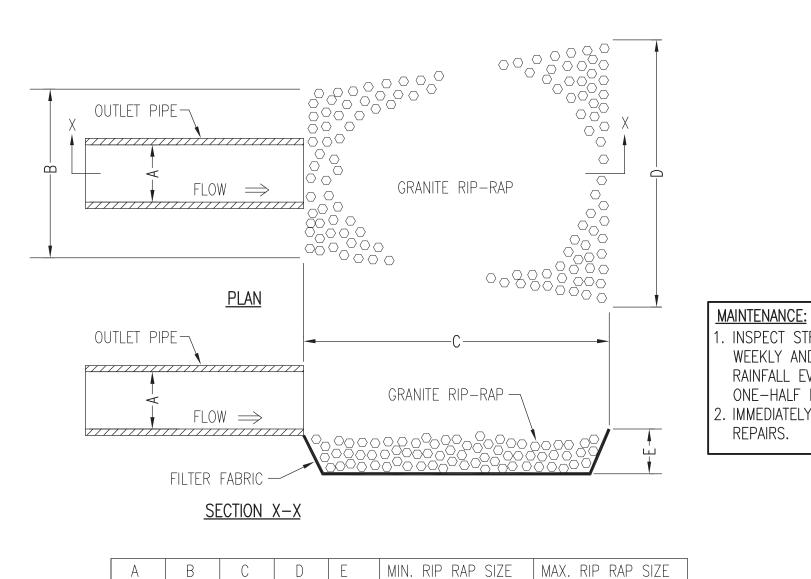
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ROADWAY PAVEMENT







. INSPECT STRUCTURES AT LEAST

RAINFALL EVENT GREATER THAN

. IMMEDIATELY MAKE ALL NEEDED

WEEKLY AND AFTER ANY

ONE-HALF INCH.

REPAIRS.



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:

5 LBS PER ACRE CENTIPEDE

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.

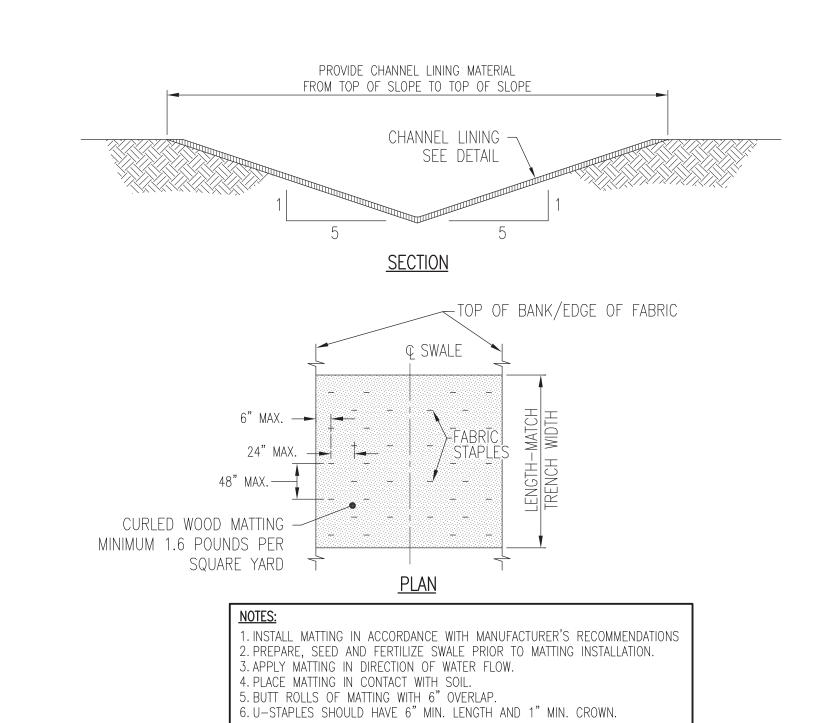
REFERENCE SPECIFICATION SECTION 02 82 30 "RE-ESTABLISHING VEGETATION" FOR SPECIFIC SOD INSTALLATION AND SOD BED PREPARATION REQUIREMENTS.

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.

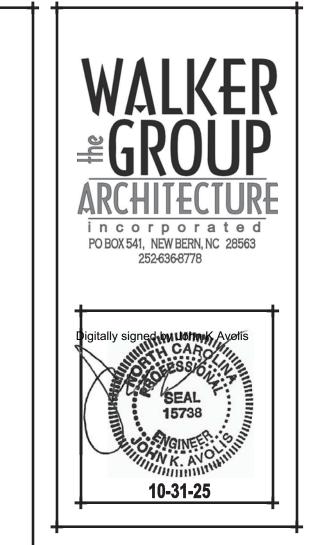
ALL DENUDED AREAS WILL, WITHIN 7 DAYS OF COMPLETION OF CONSTRUCTION, BE PROVIDED PERMANENT GROUND COVER.





CHANNEL LINING

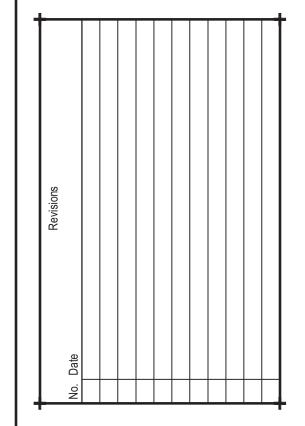




New NC Forest Service County Office for Jones County

NC HIGHWAY 58 S **JONES COUNTY, NC 28585**

ISSUED FOR CONSTRUCTION SCO# 23-26839-01B



Date **10-31-25**

Checked **JKA**

Project Number 2318.NCFS

Drawn MSP

Scale AS NOTED

Drawing Title

Erosion Control Details

Sheet Number **11** Of **47**

THE NCG01 CONSTRUCTION GENERAL PERMI

lementing the details and specifications on this plan sheet will result in the construct ctivity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The ermittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet

Required Ground Stabilization Timeframes

may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Si	te 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 Paris Lake Watershed -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zone -10 days for Falls Lake Watershed unless there is zero slope

GROUND STABILIZATION SPECIFICATION tabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the

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.

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

rubs or other permanent plantings covere • 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 Select flocculants that are appropriate for the soils being exposed during

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

EQUIPMENT AND VEHICLE MAINTENANCE

Maintain vehicles and equipment to prevent discharge of fluids. Provide drip pans under any stored equipment.

- Identify leaks and repair as soon as feasible, or remove leaking equipment from the Collect all spent fluids, store in separate containers and properly dispose as
- hazardous waste (recycle when possible). Remove leaking vehicles and construction equipment from service until the problem has been corrected.

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 Never bury or burn waste. Place litter and debris in approved waste containers.

- Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
- Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available. 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.

Cover waste containers at the end of each workday and before storm events or

- provide secondary containment. Repair or replace damaged waste containers. Anchor all lightweight items in waste containers during times of high winds. Empty waste containers as needed to prevent overflow. Clean up immediately if
- containers overflow. Dispose waste off-site at an approved disposal facility. On business days, clean up and dispose of waste in designated waste containers.

- PAINT AND OTHER LIQUID WASTE Do not dump paint and other liquid waste into storm drains, streams or wetlands. . Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area. 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.

- 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.
- Provide staking or anchoring of portable toilets during periods of high winds or in high 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

EARTHEN STOCKPILE MANAGEMEN

with properly operating unit.

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

Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stocknile. . Provide stable stone access point when feasible

Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is define as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

CONCRETE NOTING DEVICE (18"X24" MIN.) CLEARLY MARKED SIGNAGE NOTING DEVICE (18'X24' MIN.) 2. THE CONCRETE VASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/DR SDLID REACHES 75% OF THE STRUCTURES 3.CONORETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE. 3.CONCRETE VASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE. ABOVE GRADE WASHOUT STRUCTURE NOT TO SCALE BELDW GRADE WASHOUT STRUCTURE CONCRETE WASHOUTS

Do not discharge concrete or cement slurry from the site.

Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility. 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. 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. 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. 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. 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.

Install at least one sign directing concrete trucks to the washout within the project

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.

limits. Post signage on the washout itself to identify this location.

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 Store and apply herbicides, pesticides and rodenticides in accordance with label

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 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 . Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE Create designated hazardous waste collection areas on-site.

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

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 holiday periods, and no individual-day rainfall information available, record the cumulative rain measurement for those attended days (and this will determine if a site inspection needed). Days on which no rainfall occurred shall be recorded "zero." The permittee may use another rain-monitoring devapproved 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	Identification of the measures inspected, Date and time of the inspection, Name of the person performing the inspection, Indication of whether the measures were operating properly, Description of maintenance needs for the measure, 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	Identification of the discharge outfalls inspected, Date and time of the inspection, Name of the person performing the inspection, Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, Indication of visible sediment leaving the site, 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 recor of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has I the site limits, 2. Description, evidence, and date of corrective actions taken, and 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 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, a 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this pern
(6) Ground stabilization measures	After each phase of grading	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). 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.

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING . E&SC Plan Documentatio

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

NOTE: The rain inspection resets the required 7 calendar day inspection requirement. of three years after project completion and made available upon request. [40 CFR 122.41]

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

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

ediment 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, f) 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
- 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

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).
- (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
- 2. Reporting Timeframes and Other Requirements

CFR 122.41(I)(7)

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

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

Occurrence Reporting Timeframes (After Discovery) and Other Requirements (a) Visible sediment • 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.

reported to the Department's Environmental Emergency Center personnel at (800)

		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 compliant with the federal or state impaired-waters conditions.
	(b) Oil spills and	• Within 24 hours, an oral or electronic notification. The notification
	release of	shall include information about the date, time, nature, volume and
	hazardous	location of the spill or release.
	substances per Item	
	1(b)-(c) above	
	(c) Anticipated	 A report at least ten days before the date of the bypass, if possible.
	bypasses [40 CFR	The report shall include an evaluation of the anticipated quality and
_	122.41(m)(3)]	effect of the bypass.
-	(d) Unanticipated	• Within 24 hours, an oral or electronic notification.
	bypasses [40 CFR	• Within 7 calendar days, a report that includes an evaluation of the
	122.41(m)(3)]	quality and effect of the bypass.
	(e) Noncompliance	• Within 24 hours, an oral or electronic notification.
1	with the conditions	• Within 7 calendar days, a report that contains a description of the
.	of this permit that	noncompliance, and its causes; the period of noncompliance,
	may endanger	including exact dates and times, and if the noncompliance has not
- 1	1 1	,

EFFECTIVE: 04/01/19

been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and

Division staff may waive the requirement for a written report on a

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

- . INSTALL SILT FENCING, GRAVEL CONTROL ENTRANCE AND CHECK DAMS AND INLET/OUTLET PROTECTION AS INDICATED.
- . COMPLETE SITE CONSTRUCTION AS INDICATED.
- 3. FINE GRADE SITE AS INDICATED.
- 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.
- . ADDITIONAL MISCELLANEOUS EROSION CONTROL MEASURES MAY BE REQUIRED WHEN DEEMED NECESSARY BY THE CONTRACTING OFFICER OR CONTRACTOR.
- REMOVE SILT FENCING AND CHECK DAMS ONCE VEGETATION IS 95% ESTABLISHED MINIMUM.

MAINTENANCE PLAN

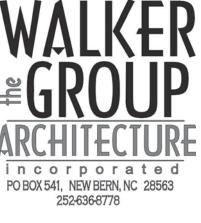
- . ALL EROSION AND SEDIMENTATION CONTROL DEVICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL EVENT BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL DEVICES IN THE OPERATIONAL CONDITIONS INTENDED.
- . ALL AREAS 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.
- 5. SEDIMENT SHALL BE REMOVED FROM BEHIND SILT FENCING AND CHECK DAMS PRIOR TO THE SEDIMENT ACCUMULATING TO A MAXIMUM DEPTH OF SIX INCHES.

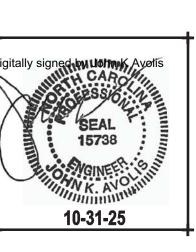
SPECIAL SEEDING NOTE:

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.

. 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.

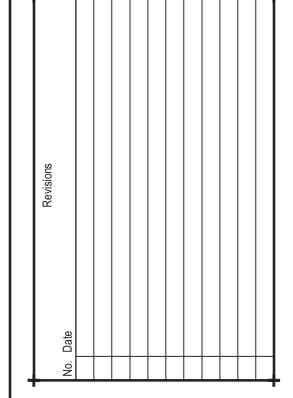




New NC Forest Service County Office for Jones County

NC HIGHWAY 58 S **JONES COUNTY, NC 28585**

ISSUED FOR CONSTRUCTION SCO# 23-26839-01B



10-31-25

Project Number 2318.NCFS

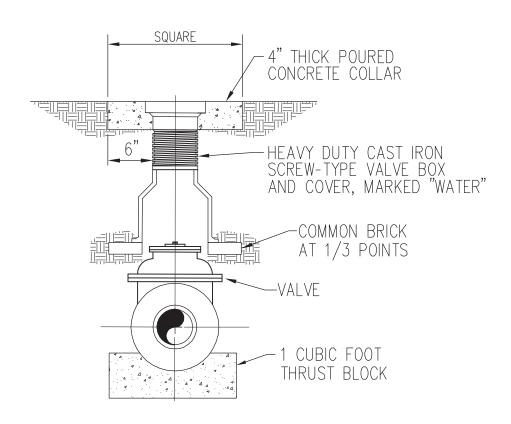
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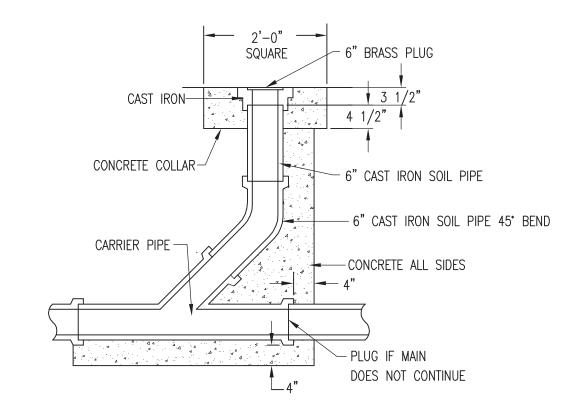
Erosion Control Notes

Sheet Number **12** Of **47**

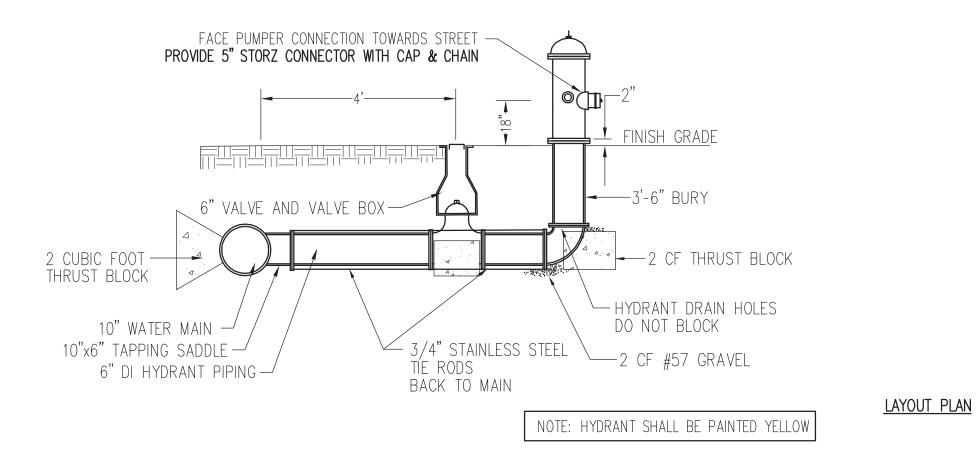




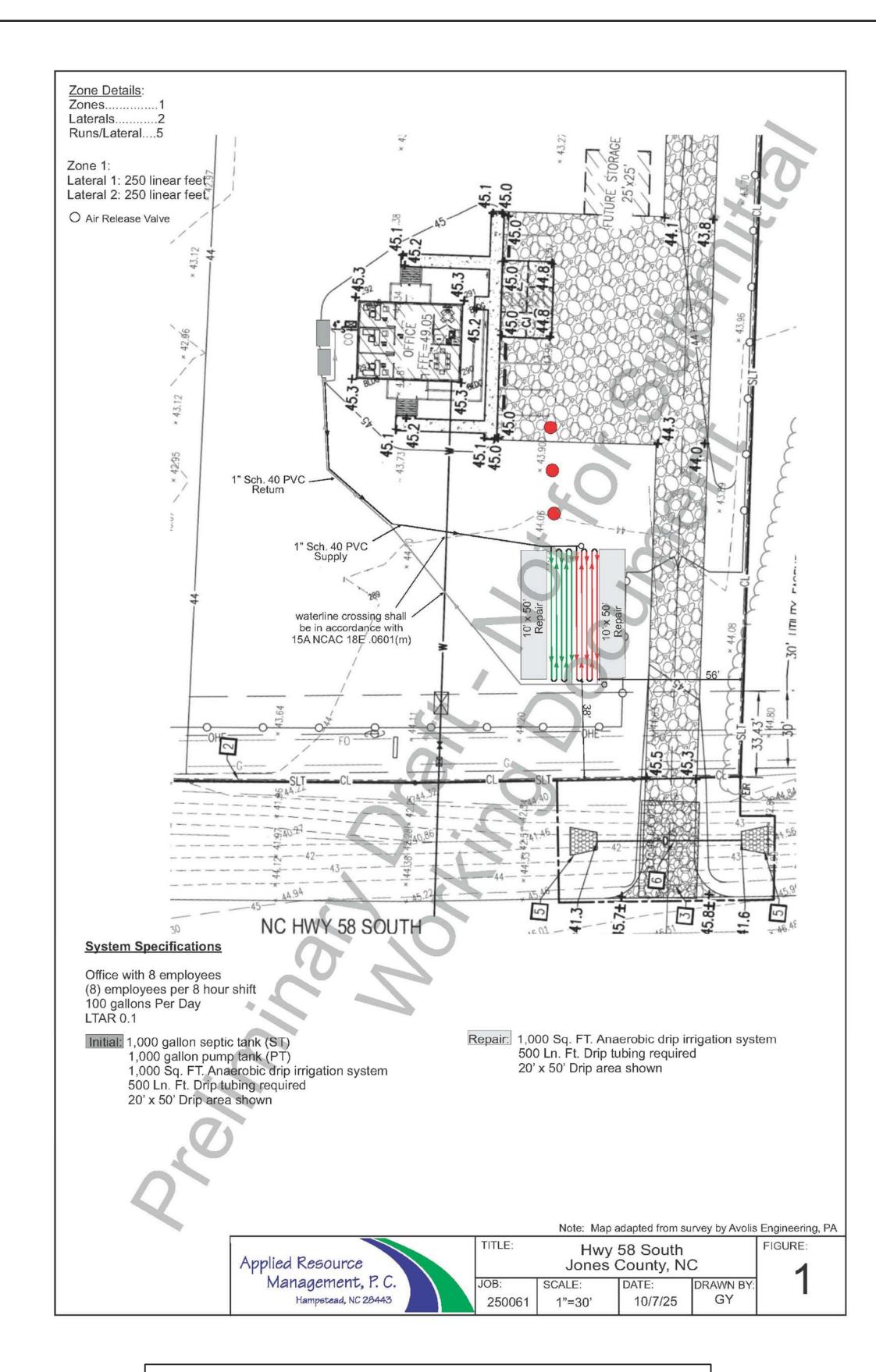












SEPTIC SYSTEM NOTES:

I. THE DESIGN AND PERMITTING OF THE ON-SITE SEPTIC SYSTEM IS DESIGNATED AS A BID OPTION. SEE ARCHITECTURAL PLANS FOR BID OPTION SCHEDULE.

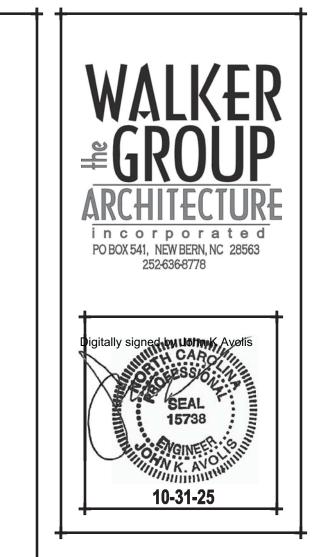
2. THE DESIGN AND PERMITTING OF THE ON-SITE SEPTIC SYSTEM IS DESIGNATED AS A DELEGATED DESIGN. THE CONTRACTOR SHALL BE RESPONSIBLE TO HIRE A VENDOR APPROVED, NORTH CAROLINA REGISTERED ENGINEER TO DESIGN AND PERMIT THE ON-SITE SYSTEM. 3. UPON COMPLETION OF SYSTEM DESIGN, THE DESIGN ENGINEER SHALL PROVIDE A SUBMITTAL OF

THE SYSTEM DESIGN AND CALCULATIONS TO THE PROJECT ARCHITECT FOR APPROVAL, PRIOR TO MANUFACTURING.

4. THE ON-SITE SEPTIC SYSTEM SHALL CONSIST OF A PERC-RITE DRIP DISPERSAL SYSTEM AS MANUFACTURED BY AMERICAN MANUFACTURING COMPANY, INC (WWW.AMERICANONSITE.COM, 1-800-345-3132). ANY DEVIATIONS FROM THIS SYSTEM SHALL BE APPROVED BY THE PROJECT ARCHITECT.

5. ALL COSTS ASSOCIATED WITH THE ON-SITE SEPTIC SYSTEM DESIGN, PERMITTING, CONSTRUCTION OVERSIGHT, AND FINAL CERTIFICATION SHALL BE INCLUDED IN THE CONTRACTOR'S PROPOSAL. 6. UPON COMPLETION, THE DESIGN ENGINEER SHALL ISSUE TO THE OWNER A CERTIFICATION THAT THE SYSTEM, AS CONSTRUCTED, COMPLIES WITH THE APPROVED PROJECT DESIGN.

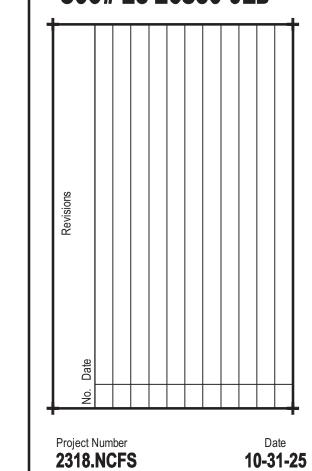
SEPTIC SYSTEM PRELIMINARY LAYOUT



New NC Forest Service County Office for Jones County

NC HIGHWAY 58 S **JONES COUNTY, NC 28585**

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Project Number 2318.NCFS

Drawn MSP

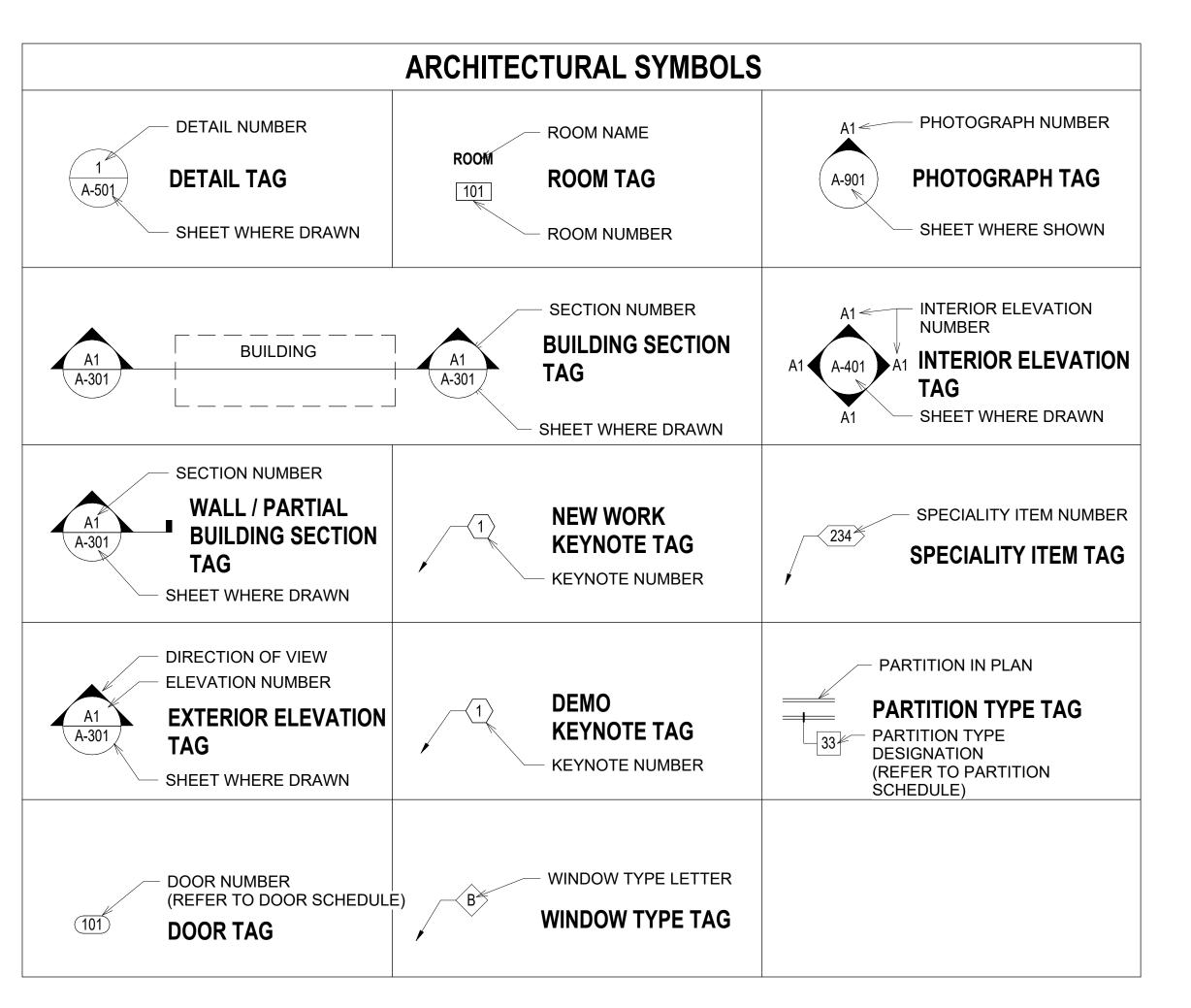
Scale AS NOTED

Drawing Title

Details

Sheet Number **13** of **47**

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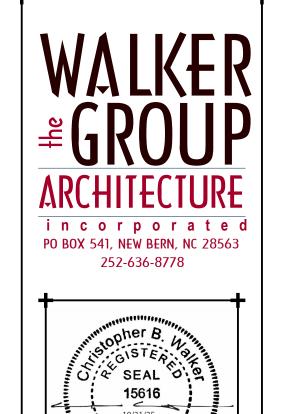
	MATERIALS LEGEND							
	SECTION	ELEVATION						
	WOOD - ROUGH		EIFS - PAINTED					
	WOOD BLOCKING		CMU - PAINTED					
	PLYWOOD		CMU - PAINTED - ACCENT					
	CONCRETE MASONRY UNIT		GLAZED BLOCK					
	BRICK	<i>"</i>	GLAZING					
	CAST-IN-PLACE CONCRETE		SPANDREL GLAZING / STEEL PANEL					
	STEEL	4 4 4	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	CPT	CARPET / COMMON PATH OF TRAVEL	GA	GAUGE	SF	SQUARE FOOT
ACS PNL	ACCESS PANEL	CT	CERAMIC TILE	GALV	GALVANIZED	SH	SHINGLES / SINGLE HUNG
ADJ	ADJUST	CTR	CENTER	GFCI	GOVERNMENT FURNISHED CONTRACTOR	SIM	SIMILAR
ALT	ALTERNATE, ALTITUDE	D	DEPTH / DEEP		INSTALLED	SPC	SUSPENDED PLASTER CEILING
ALUM	ALUMINUM	DEG	DEGREE	GL	GLASS / GROUND LEVEL	SPEC	SPECIFICATION
ANOD	ANODIZED	DEMO	DEMOLITION	GR	GROSS	SQ	SQUARE
APPROX	APPROXIMATE	DET	DETAIL	GSU	GLAZED STRUCTURAL UNIT	STD	STANDARD
ARCH	ARCHITECT	DIA	DIAMETER	GYP	GYPSUM	STOR	STORAGE
ASPH	ASPHALT	DIM	DIMENSION	Н	HIGH	STR	STRAIGHT STRIKE / STRINGERS
ATC	ACOUSTICAL TILE CEILING	DR	DRAIN	HB	HOSE BIB	SUSP	SUSPENDED
BD	BOARD	DS	DOWNSPOUT	HDW	HARDWARE	T&B	TOP AND BOTTOM
BLDG	BUILDING	DW	DISHWASHER	HM	HOLLOW METAL	TEL	TELEPHONE
BLW	BELOW	DWG	DRAWING	HORIZ	HORIZONTAL	THRES	THRESHOLD
BM	BEAM	E	EAST	HT	HEIGHT	THRU	THROUGH
BOS	BOTTOM OF SLAB / STEEL	EA	EACH	HVY	HEAVY	TOS	TOP OF SLAB / STEEL
BOT	BOTTOM	EIFS	EXTERIOR INSULATION & FINISH SYSTEM	ID	INSIDE DIAMETER	TYP	TYPICAL
BRG	BEARING	EJ	EXPANSION JOINT	INSUL	INSULATION / INSULATED	UON	UNLESS OTHERWISE NOTED
BSMT	BASEMENT	EL	ELEVATION	INT	INTERIOR	V	VOLT
BTWN	BETWEEN	ELEC	ELECTRIC / ELECTRICAL	J-BOX	JUNCTION BOX	VAR	VARIATION
СТОС	CENTER TO CENTER	EPDM	ETHLENE PROPYLENE DIEN MONOMER	JAN	JANITOR CLOSET	VB	VINYL BASE
CAB	CABINET	EQ	EQUAL	LAV	LAVATORY	VCT	VINYL COMPOSITION TILE
CEM	CEMENT	EQUIP	EQUIPMENT	LB	POUND	VENT	VENTILATION / VENTILATOR
CER	CERAMIC	EW	EACH WAY	LT	LIGHT	VERT	VERTICAL
CI	CAST IRON	EWC	ELECTRIC WATER COOLER	MACH	MACHINE	VEST	VESTIBULE
CIP	CAST IRON PIPE	EXH	EXHAUST	MATL	MATERIAL	VS	VENT STACK
CJ	CONTROL / CONSTRUCTION JOINT	EXIST	EXISTING	MAX	MAXIMUM	VTR	VENT THROUGH ROOF
CLG	CEILING	EXP	EXPANSION / EXPOSED / EXPAND	MECH	MECHANICAL	VWC	VINYL WALL COVERING
	CEILING REGISTER	EXT	EXTERIOR	MFG	MANUFACTURING	W	WASTE / WATT / WEST / WIDE
CLR	CLEAR	FD	FLOOR DRAIN	MIN	MINIMUM / MINUTE	W/	WITH
CMU	CONCRETE MASONRY UNIT	FDTN	FOUNDATION	MISC	MISCELLANEOUS	W/O	WITHOUT
CND	CONDUIT	FF	FINISH FACE	ML	MATCH LINE	WC	WATER CLOSET / WALL COVERING
CNDS	CONDENSATE	FG	FIGURE	MO	MASONRY OPENING / MOTOR OPERATED	WD	WOOD
CNSTR	CONSTRUCTION	FHC	FIRE HOUSE CABINET	MTD	MOUNTED	WH	WATER HEATER
CNTR	CNTR		FINISHED FLOOR	MTG	MOUNTING / MEETING	WP	WATERPROOFING / WEATHERPROOF /
CO	CLEANOUT	FOF	FACE OF FINISH	MTL	METAL		WORKING POINT
COL	COLUMN	FOM	FACE OF MASONRY	MWP	MEMBRANE WATERPROOFING	WSCT	WAINSCOT
CONC	CONCRETE	FOS	FACE OF STUB / FACE OF SLAB	N	NORTH	WT	WEIGHT
CONN	CONNECT	FR	FRAME / FIRE RATING / FIRE RESISTANT	NIC	NOT IN CONTRACT	WWF	WELDED WIRE FABRIC
CONT	CONTINUE / CONTINUOUS	FT	FOOT, FEET	NO	NUMBER	XRMR	TRANSFORMER
CORR	CORRIDOR	FTG	FOOTING	NOM	NOMINAL		

GENERAL SHEET NOTES

- ALL MATERIALS MUST BE NEW AND PROVIDED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED AS EXISTING OR AS PROVIDED BY THE
- ALL WOOD BLOCKING AND MISCELLANEOUS STEEL SHOWN IN DETAILS AND SECTIONS MUST BE CONTINUOUS UNLESS SPECIFICALLY NOTED OTHERWISE.
- 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.
- DIMENSIONS INDICATED FOR NEW WORK ARE TO FACE OF STUD, FACE OF MASONRY OR FACE OF EXISTING SURFACES UNLESS OTHERWISE NOTED.
- 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.

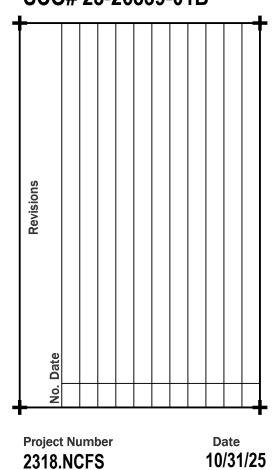


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10/31/25 PCHITECT

NC Highway 58 S Jones County, NC 28585

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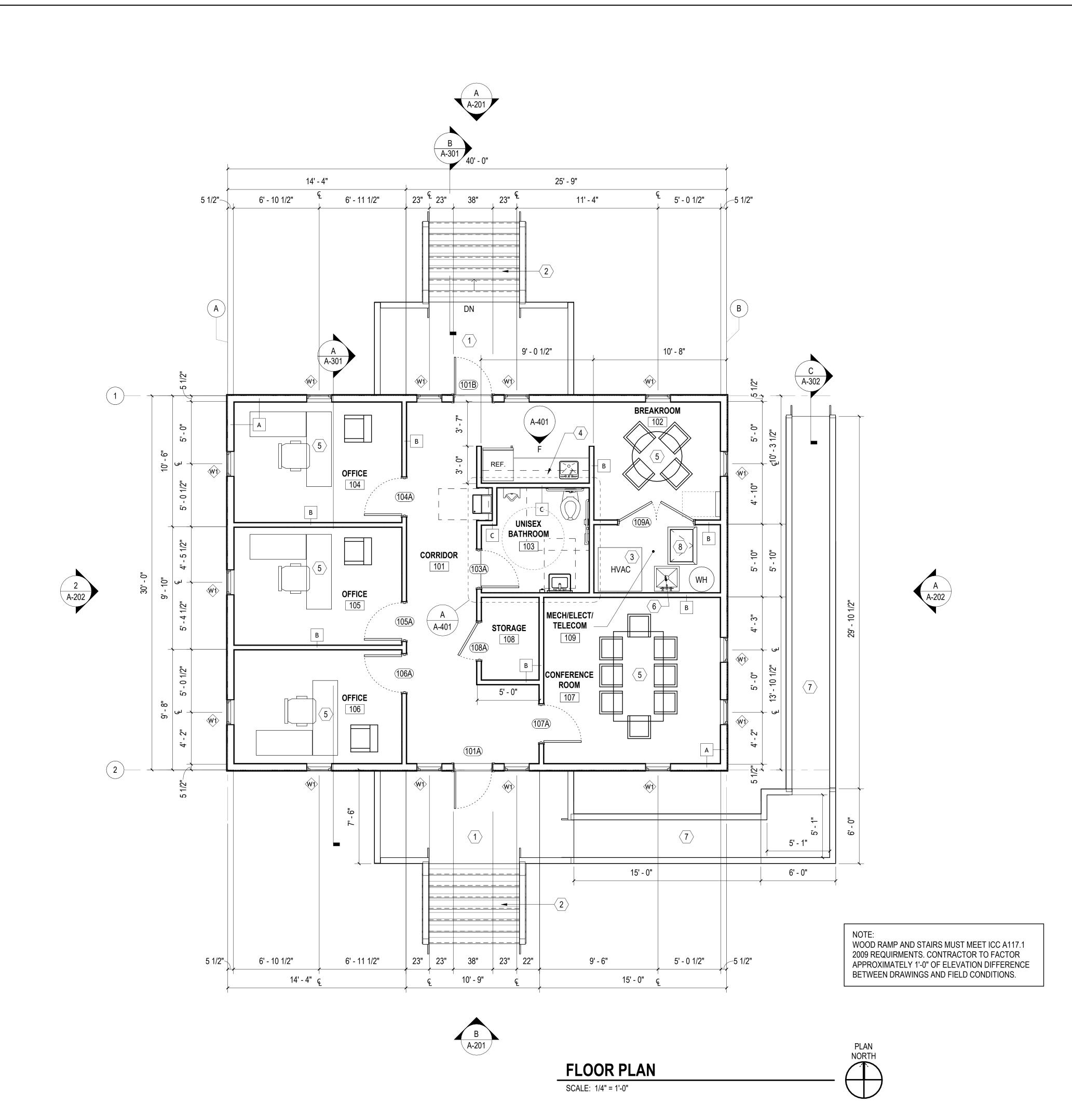
Project Number 2318.NCFS

Author

Scale
AS NOTED **Drawing Title**

ARCHITECTURAL NOTES & SYMBOLS

Checked Checker



- 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

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

FINISH SCHEDULE

RUB GYP.BD.

RUB

LVT RUB GYP.BD.

TILE TILE

LVT RUB

LVT RUB

NAME | FLOOR | BASE | WALLS | CEILING | COMMENTS

PAINT

GYP.BD.

PAINT

GYP.BD/

GYP.BD. PAINT

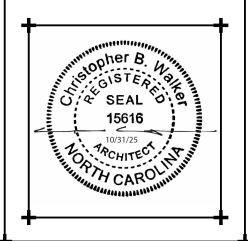
PAINT

GYP.BD.

PAINT

W.TILE

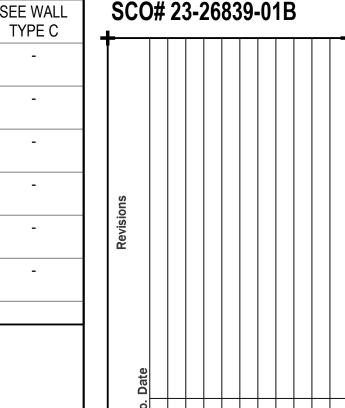
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NC Highway 58 S Jones County, NC 28585

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LVT RUB GYP.BD. PAINT PAINT RUB GYP.BD.

PAINT

PAINT

PAINT

GYP.BD.

PAINT

PAINT

PAINT

PAINT

PAINT

TILE - PORCELAIN TILE W.TILE - PORCELAIN WALL TILE WITH METAL EDGE TRIM. 5' HEIGHT, PAINTED GYPSUM BOARD ABOVE.

LVT

MECH/ELECT LVT RUB

LVT

LVT

BREAKROOM

STORAGE

/ TELECOM

LVT - LUXURY VINYL TILE FLOORING

GYP.BD - GYPSUM BOARD

Total area: 9

RUB - RUBBER BASE

WALL TYPES LEGEND

MARK	NOTES
	FIBER CEMENT LAP SIDING, VAPOR BARRIER, 1/2" CDX SHEATHING, 2x6 WOOD STUDS @ 16" O.C., R-20 FIBERGLASS BATT INSULATION, 1/2" GYPSUM BOARD. TAPE, TEXTURE, AND PAINT.
В	2x4 STUD AT 16" O.C. WITH 1/2" GYPSUM BOARD EACH SIDE. TYPICAL

FOR INTERIOR WALLS. TAPE, TEXTURE AND PAINT. 2x4 STUD AT 16" O.C. WITH 1/2" GYPSUM BOARD ON ONE SIDE. 1/2" CEMENT BOARD AND PORCELAIN WALL TILE WITH METAL EDGE TRIM AT 5'-0" A.F.F., PAINTED GYPSUM BOARD ABOVE. TAPE, TEXTURE, AND

GRAPHIC SCALE(S)

FLOOR PLAN

10/31/25

Checked

Checker

Sheet Number 15 **Of** 47

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2318.NCFS

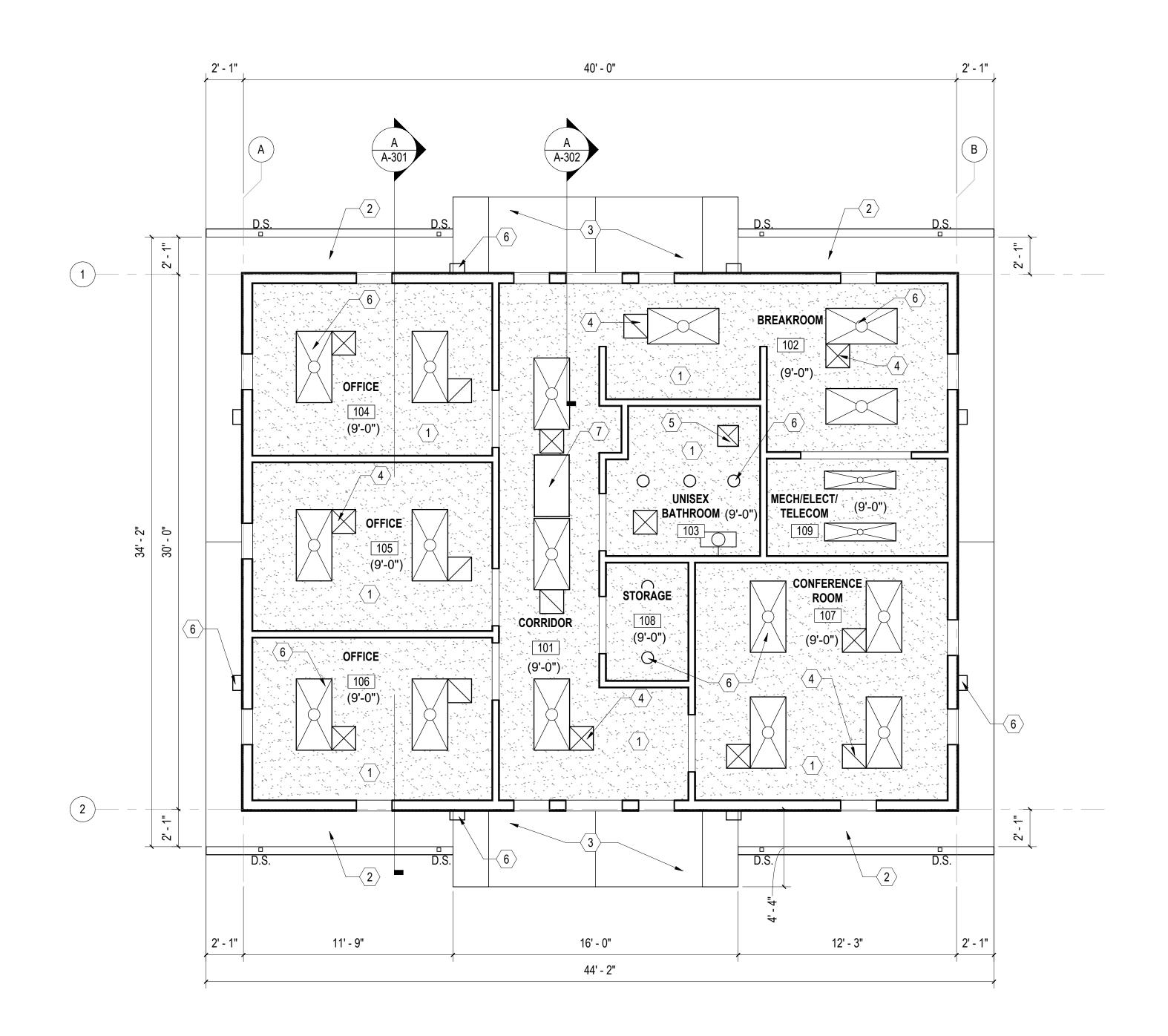
AS NOTED

Drawing Title

Drawn

Scale

Author



REFLECTED CEILING PLAN

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



GENERAL SHEET NOTES

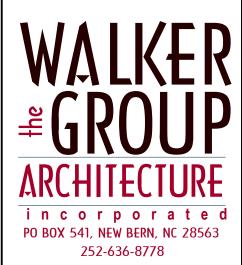
- 1. SEE CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL NOTES.
- 2. SEE SCHEDULES FOR WALL TYPES, DOOR/FRAME/WINDOW TYPES AND SIZES, AND FLOOR/WALL/CEILING FINISHES.

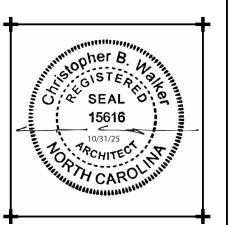
NEW WORK KEYNOTES

MARK DESCRIPTION

- 1/2" 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.
- 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.
- PULL DOWN ATTIC ACCESS WITH LADDER, INSTALL PER MANUFACTURERS INSTRUCTIONS, SEE DETAIL C/A-501.

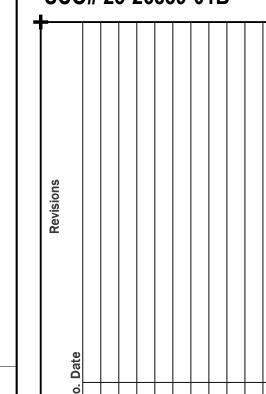




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REFLECTED CEILING PLAN LEGEND

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)

0' 2' 4' 8'

AS NOTED
Drawing Title

REFLECTED

Date 10/31/25

Checked Checker

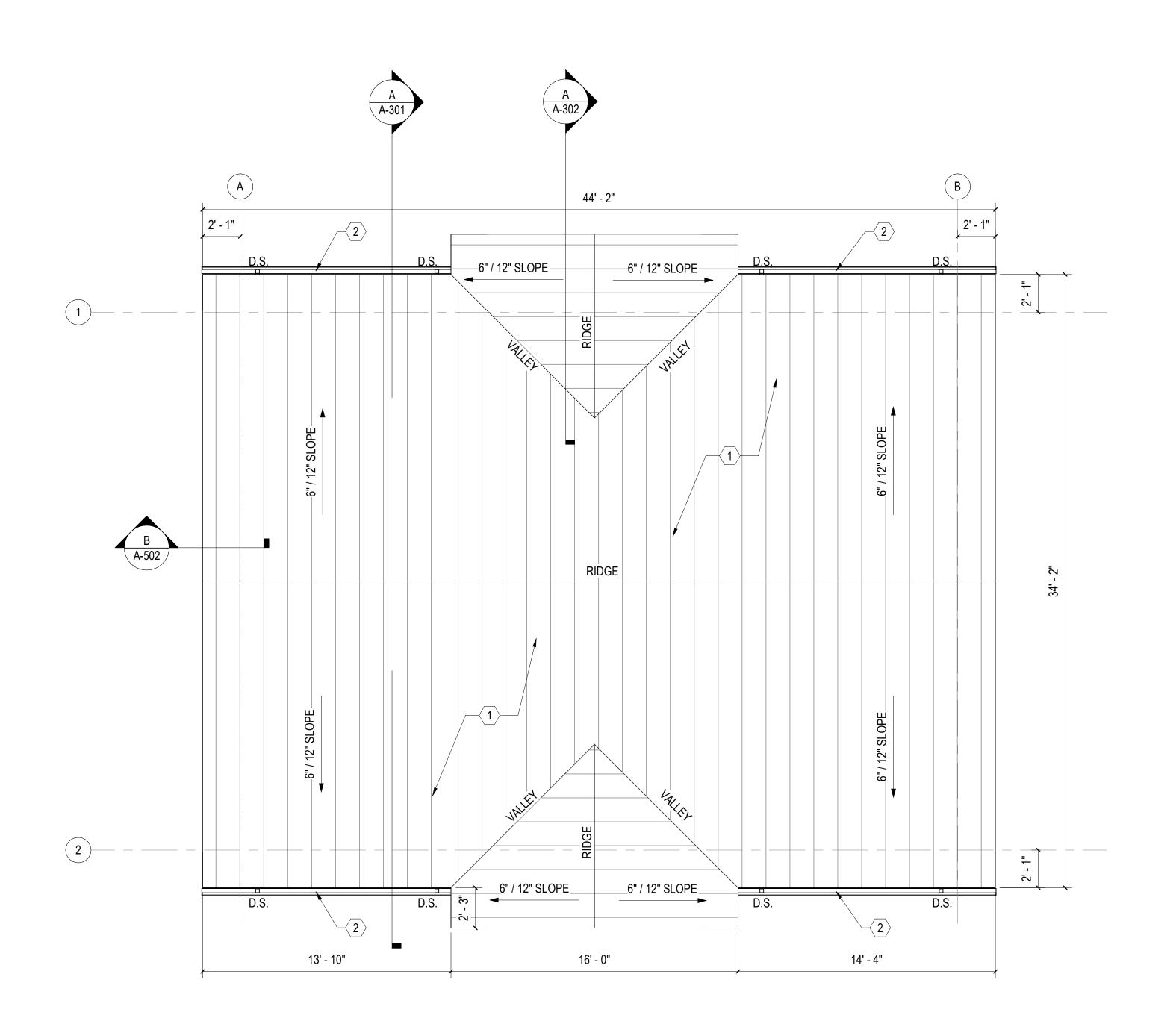
CEILING PLAN

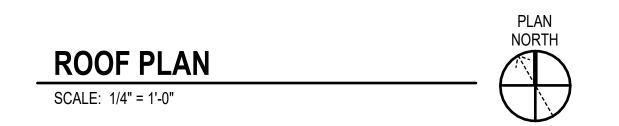
Sheet Number 16 Of 47

Project Number 2318.NCFS

Drawn **Author**

A-102



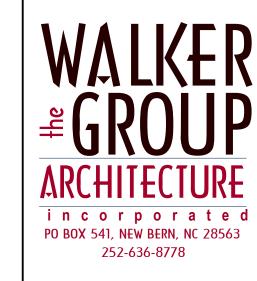


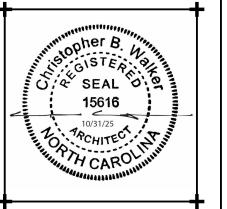
- 1. SEE CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL NOTES.
- 2. SEE SCHEDULES FOR WALL TYPES, DOOR/FRAME/WINDOW TYPES AND SIZES, AND FLOOR/WALL/CEILING FINISHES.

NEW WORK KEYNOTES

MARK DESCRIPTION

- PROVIDE STANDING SEAM METAL ROOF OVER VAPOR BARRIER, 1/2" PLYWOOD SHEATHING AND ROOF TRUSSES. SEE STRUCTURAL.
- 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.

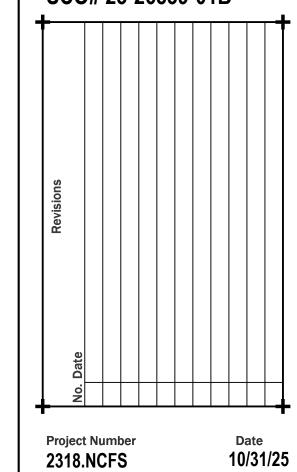




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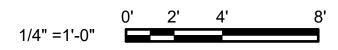
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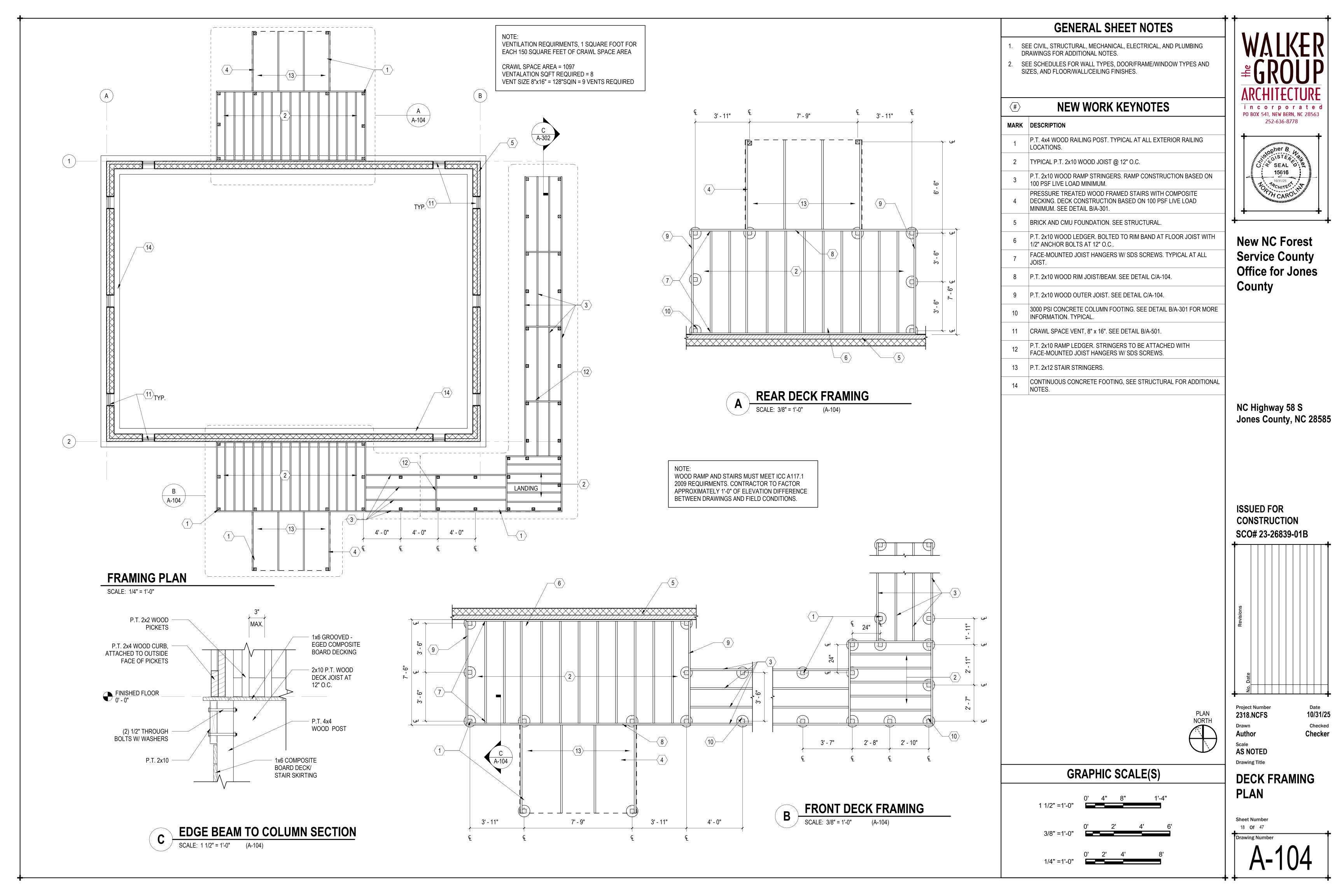
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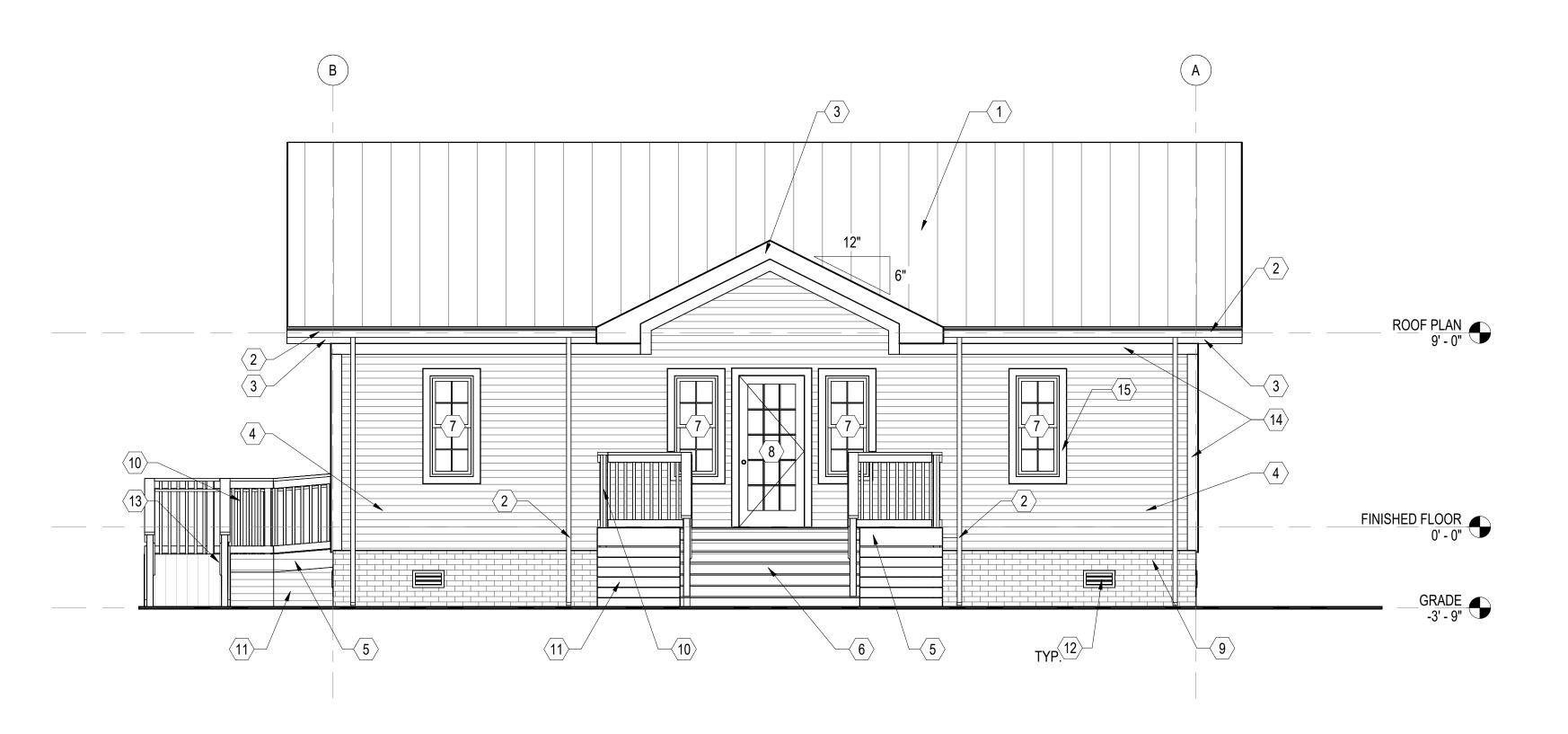
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ROOF PLAN

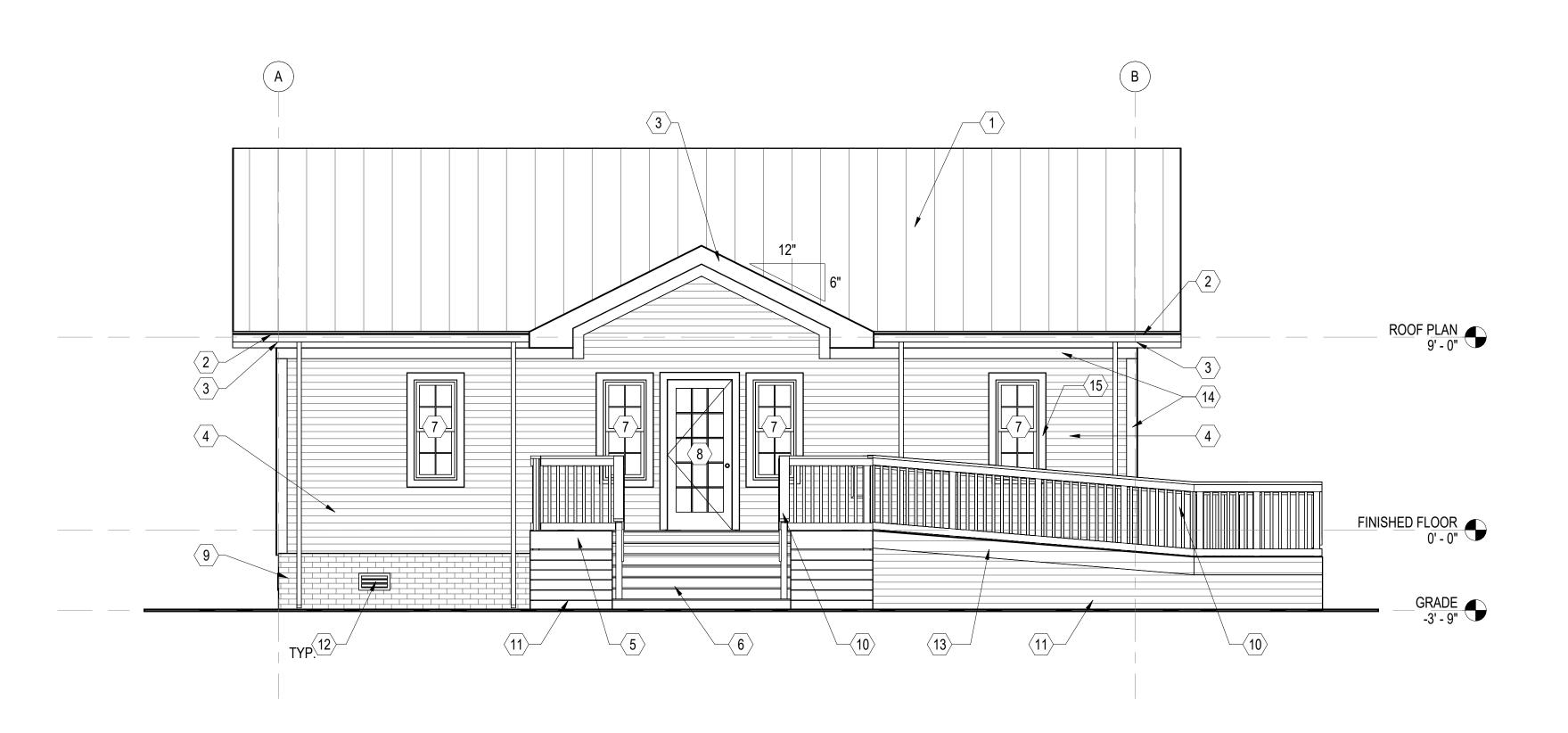
Sheet Number











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

- STANDING SEAM METAL ROOF OVER VAPOR BARRIER, 1/2" PLYWOOD SHEATHING AND ROOF TRUSSES. SEE STRUCTURAL.
- 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.
- FIBER CEMENT FASCIA BOARD.
- 4 FIBER CEMENT LAP SIDING.
- 5 COMPOSITE DECKING OVER P.T. 2x10 WOOD JOISTS AT 12" O.C., SEE SHEET A-104 AND DETAIL B/A-301 FOR ADDITIONAL NOTES.
- 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.
- HOLLOW METAL DOOR, FRAME, AND HARDWARE. SEE DOOR SCHEDULE.
- BRICK AND CMU FOUNDATION. SEE STRUCTURAL.
- P.T. WOOD GAURDRAIL AND 1 1/2" ALUMINUM HANDRAIL ATTACHED TO DECK, RAMP, AND STAIRS. SEE DEATAILS 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.
- PRESSURE TREARTED WOOD FRAMED RAMP WITH COMPOSITE

 DECKING. DECK CONSTRUCTION BASED ON 100 PSF LIVE LOAD

 MINIMUM. SEE A-104 FOR MORE INFORMATION.
- 3/4" x 6" FIBER CEMENT TRIM BOARD. TYPICAL AT ALL CORNERS EAVES
- 3/4" x 4" FIBER CEMENT TRIM BOARD. TYPICAL AT ALL EXTERIOR WINDOWS AND DOORS.

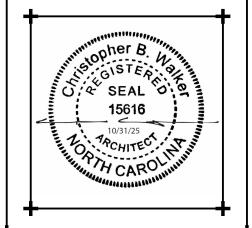
WALKER

GROUP

ARCHITECTURE

in c o r p o r a t e d

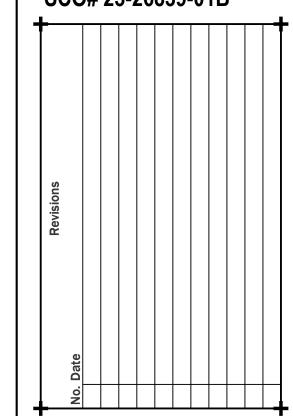
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252-636-8778



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NC Highway 58 S Jones County, NC 28585

ISSUED FOR CONSTRUCTION SCO# 23-26839-01B



Date 10/31/25

Checked Checker

Project Number 2318.NCFS

Drawn
Author

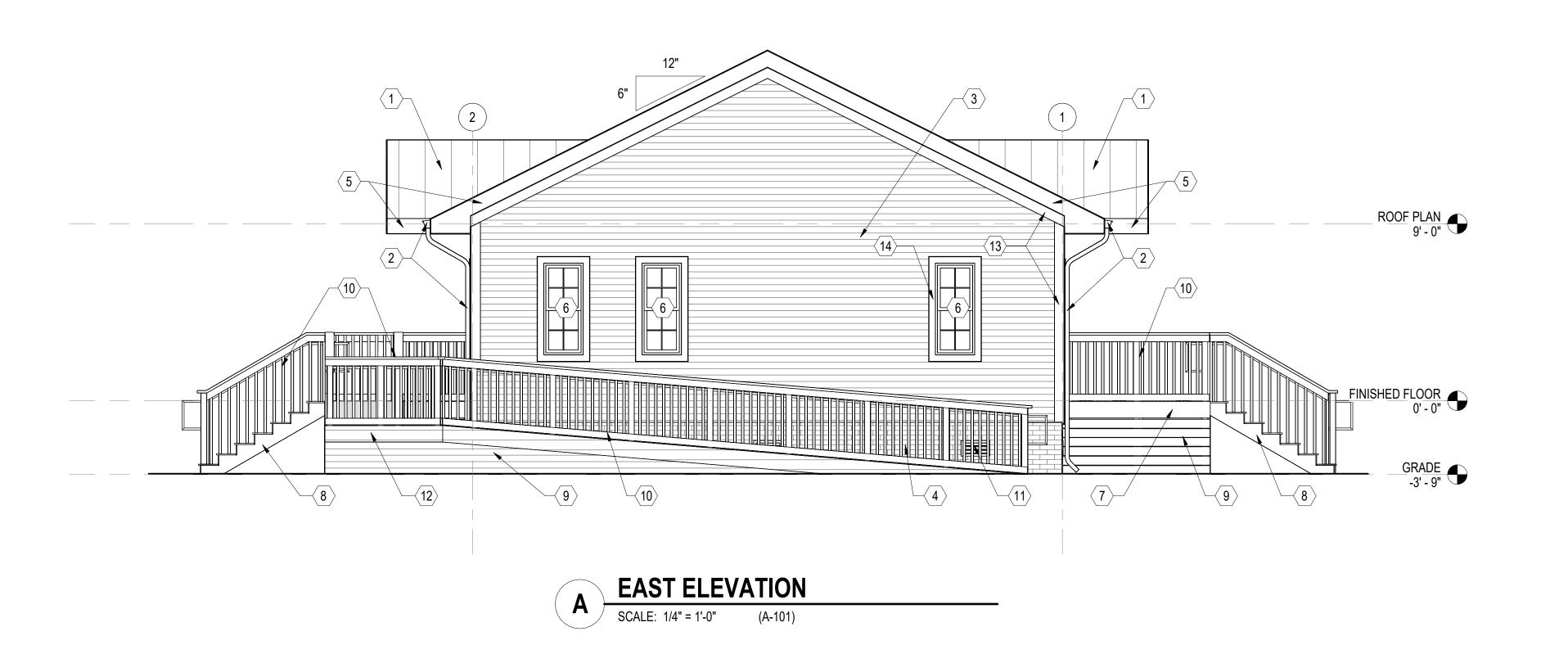
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Drawing Title

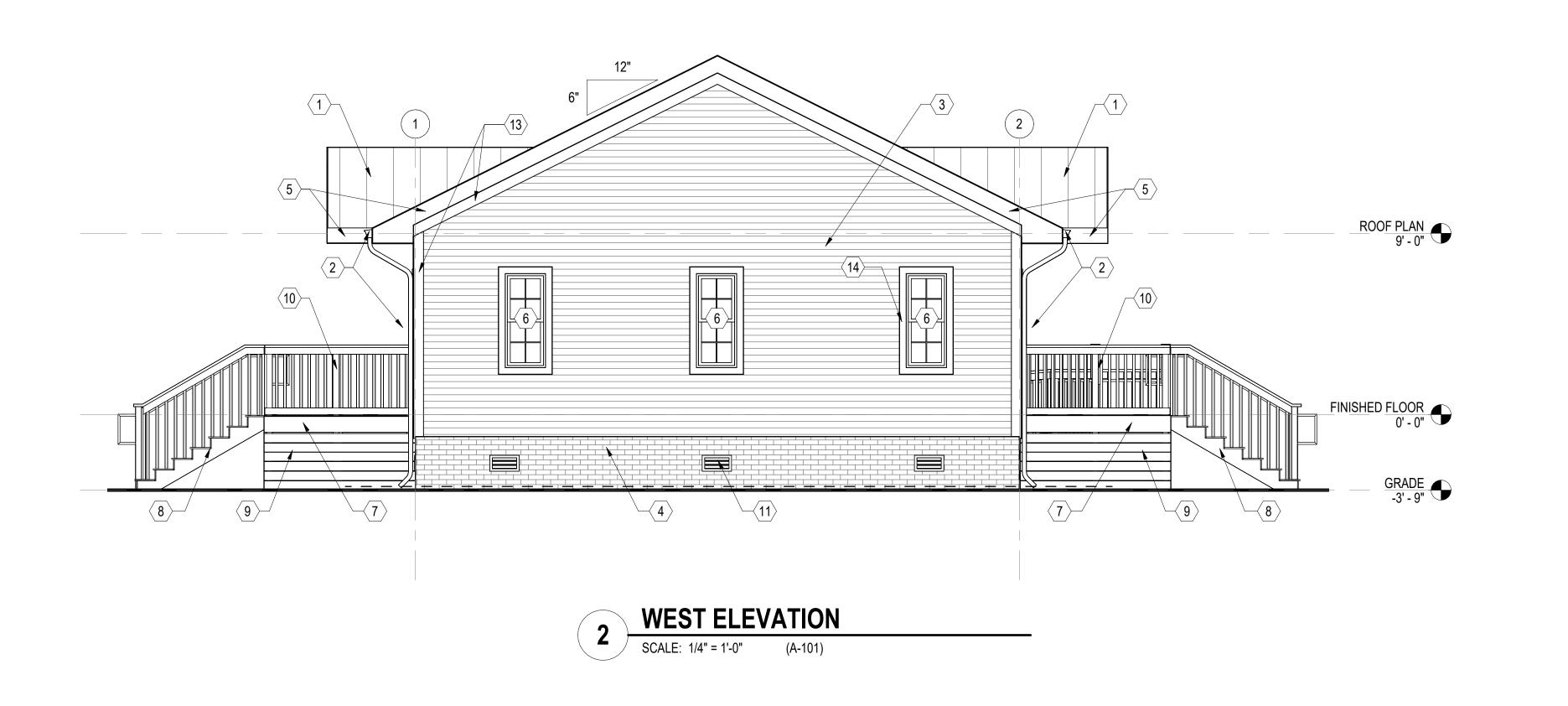
EXTERIOR ELEVATIONS

Sheet Number

Drawing Number

0' 2' 4'





- 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.

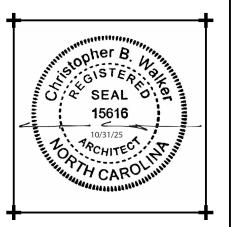
NEW WORK KEYNOTES

MARK DESCRIPTION

- PROVIDE STANDING SEAM METAL ROOF OVER VAPOR BARRIER, 1/2" PLYWOOD SHEATHING AND ROOF TRUSSES. SEE STRUCTURAL.
- 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.
- FIBER CEMENT LAP SIDING.
- 4 BRICK AND CMU FOUNDATION. SEE STRUCTURAL.
- FIBER CEMENT FASCIA BOARD.
- 6 ALUMINUM WINDOW. SEE WINDOW SCHEDULE.
- 7 COMPOSITE DECKING OVER P.T. 2x10 WOOD JOISTS AT 12" O.C., SEE SHEET A-104 AND DETAIL B/A-301 FOR ADDITIONAL NOTES.
- 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.
- P.T. WOOD GAURDRAIL AND 1 1/2" ALUMINUM HANDRAIL ATTACHED TO DECK, RAMP, AND STAIRS. SEE DEATAILS B/A-301 & C/A-302.
- 1 ALUMINUM CRAWL SPACE VENT, 8" x 16". SEE DETAIL B/A-501.
- PRESSURE TREARTED WOOD FRAMED RAMP WITH COMPOSITE DECKING. DECK CONSTRUCTION BASED ON 100 PSF LIVE LOAD MINIMUM. SEE A-104 FOR MORE INFORMATION.
- 3/4" x 6" FIBER CEMENT TRIM BOARD. TYPICAL AT ALL CORNERS EAVES AND RAKES.
- 3/4" x 4" FIBER CEMENT TRIM BOARD. TYPICAL AT ALL EXTERIOR WINDOWS AND DOORS.

WALKER
GROUP
ARCHITECTURE

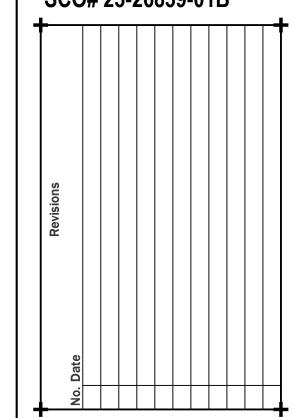
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Project Number 2318.NCFS

Drawn Author

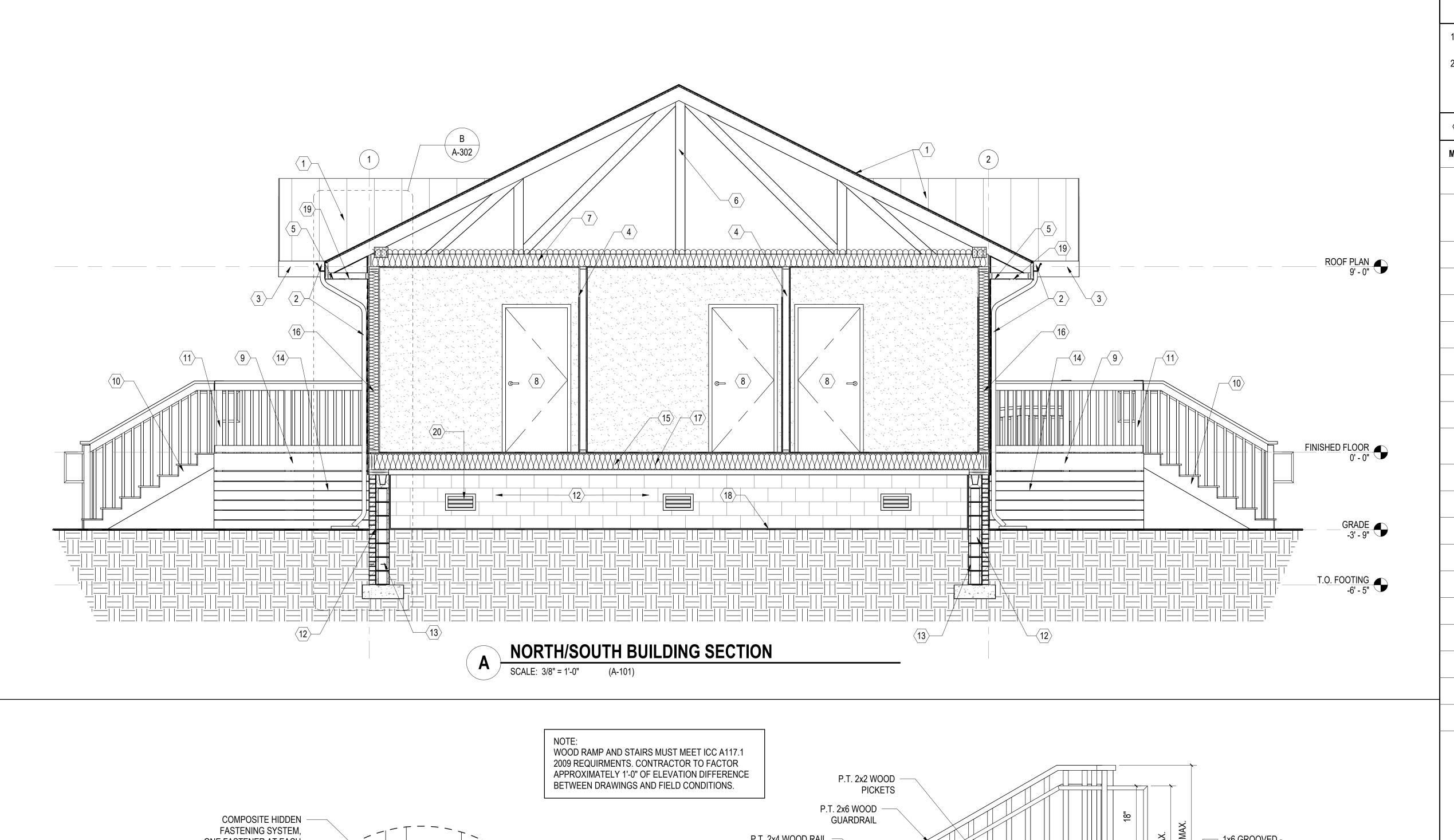
Scale
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Drawing Title

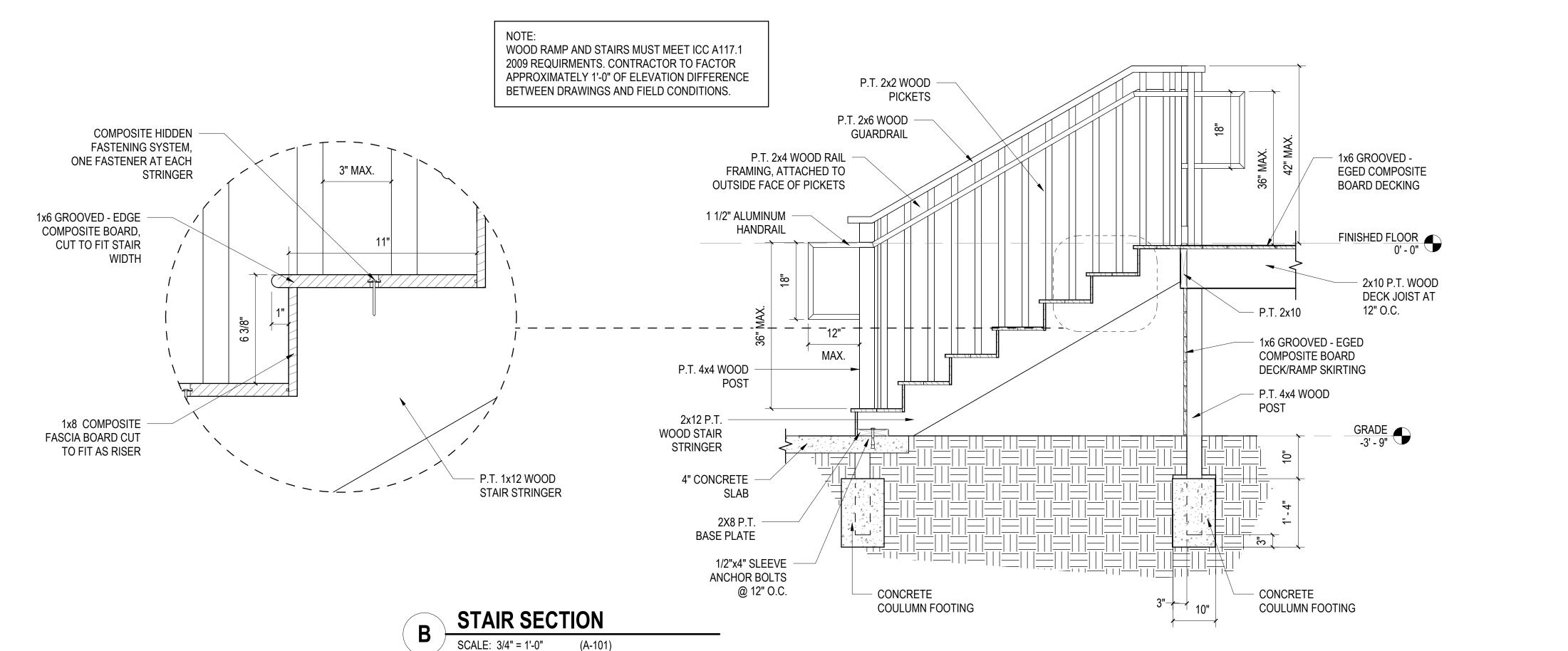
EXTERIOR ELEVATIONS

Sheet Number 20 Of 47

Drawing Number

0' 2' 4' 8'





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

NEW WORK KEYNOTES

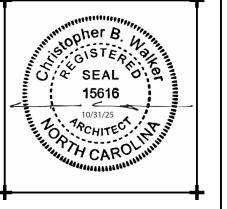
MARK DESCRIPTION

- PROVIDE STANDING SEAM METAL ROOF OVER VAPOR BARRIER, 1/2" PLYWOOD SHEATHING AND ROOF TRUSSES. SEE STRUCTURAL
- 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.
- FIBER CEMENT FASCIA BOARD.
- WOOD STUD AND GYPSUM BOARD PARTITION TO UNDERSIDE OF TRUSSES. FINISH AND PAINT. SEE WALL SCHEDULE.
- FIBER CEMENT SOFFIT.
- WOOD TRUSSES, SEE STRUCTURAL FOR ADDITIONAL INFORMATION.
- R-38 BATT INSULATION.
- HOLLOW METAL FRAME, WOOD DOOR, AND HARDWARE. SEE DOOR
- COMPOSITE DECKING OVER P.T. 2x10 WOOD JOISTS AT 12" O.C., SEE SHEET A-104 AND DETAIL B/A-301 FOR ADDITIONAL NOTES
- PRESSURE TREATED WOOD FRAMED STAIRS WITH COMPOSITE DECKING. DECK CONSTRUCTION BASED ON 100 PSF LIVE LOAD MINIMUM. SEE DETAIL B/A-301.
- P.T. WOOD GAURDRAIL AND 1 1/2" ALUMINUM HANDRAIL ATTACHED TO DECK, RAMP, AND STAIRS. SEE DEATAILS B/A-301 & C/A-302.
- 12 BRICK AND CMU FOUNDATION. SEE STRUCTURAL.
- CONTINUOUS CONCRETE FOOTING, SEE STRUCTURAL FOR ADDITIONAL
- 1x6 COMPOSITE BOARD DECK/RAMP SKIRTING.
- 3/4" DRYGUARD OSB SUB-FLOOR OVER 2x10 FLOOR JOIST AT 16" O.C., SEE STRUCTURAL FOR ADDITIONAL NOTES.
- R-20 BATT INSULLATION.
- 17 R-30 BATT INSULATION.
- 18 6 MIL VAPOR BARRIER.

CONTINUOUS 4" SOFFIT VENT.

ALUMINUM CRAWL SPACE VENT, 8" x 16". SEE DETAIL B/A-501.

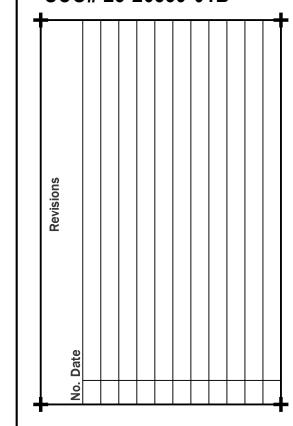
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Project Number 2318.NCFS

Drawn **Author**

Scale **AS NOTED Drawing Title**

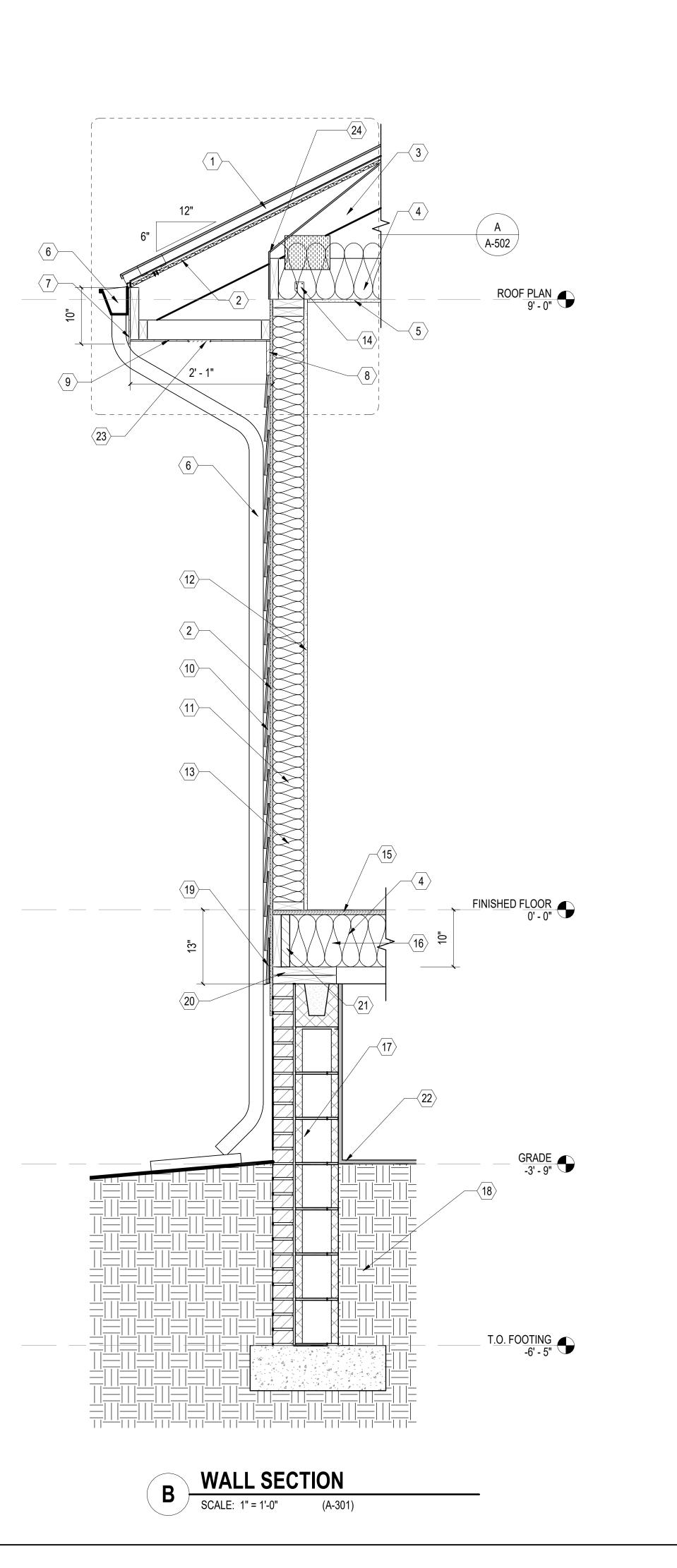
Date 10/31/25

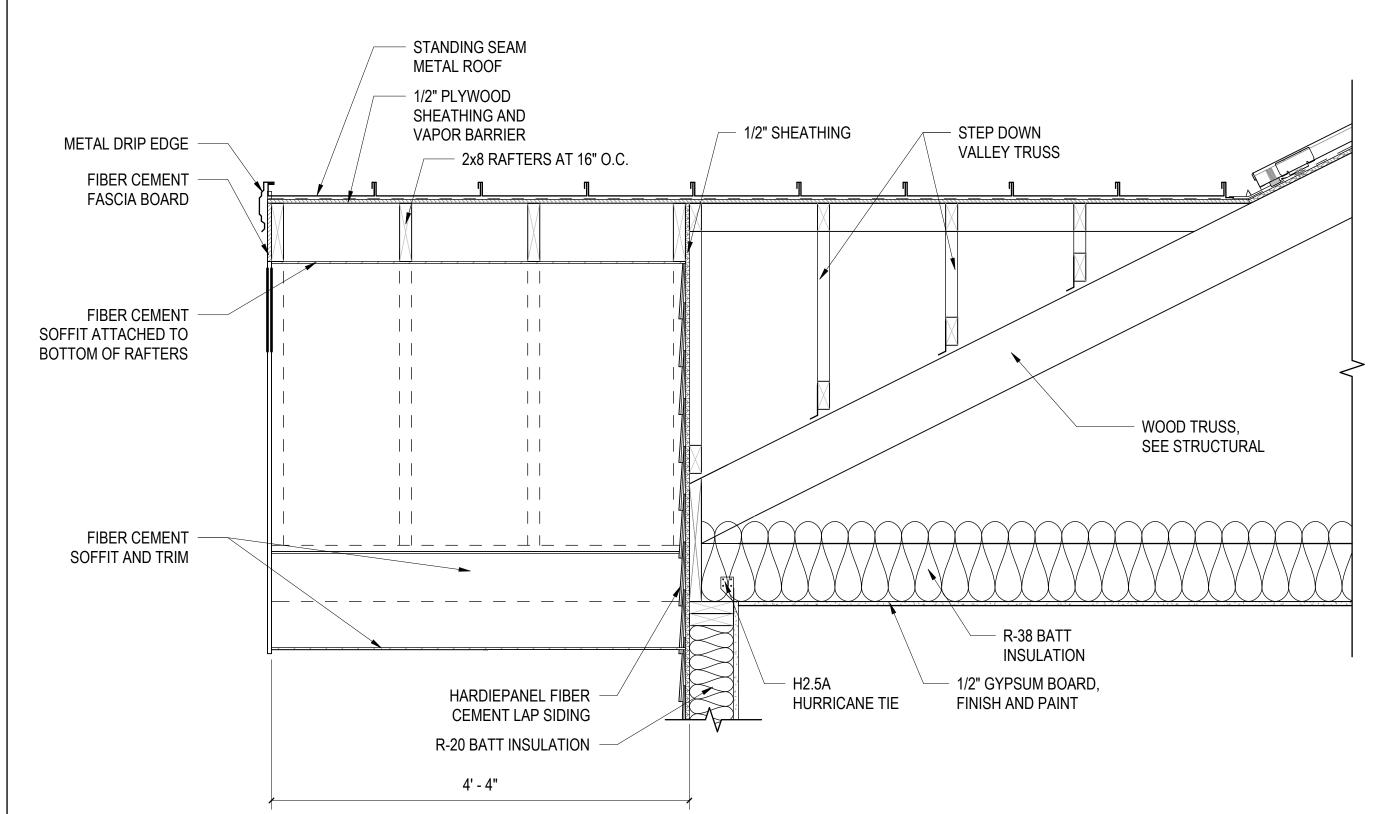
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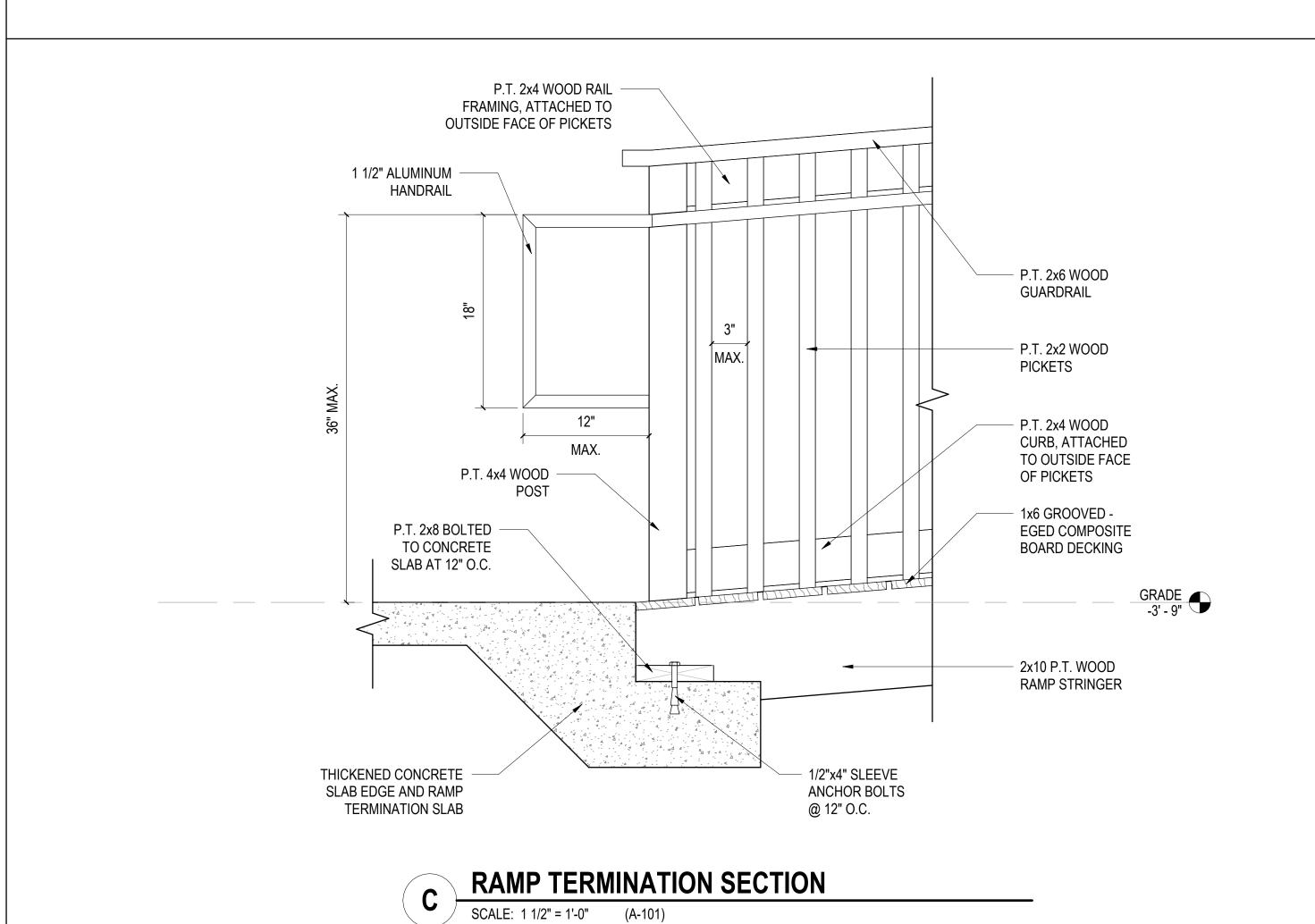
BUILDING SECTION

Sheet Number 21 **Of** 47









- 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.
- 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.
- 2x10 WOOD FLOOR JOISTS AT 16" O.C., SEE STRUCTURAL FOR
- ADDITIONAL NOTES.
- 17 BRICK AND CMU FOUNDATION. SEE STRUCTURAL.
- 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.

ARCHITECTURE

in c o r p o r a t e d

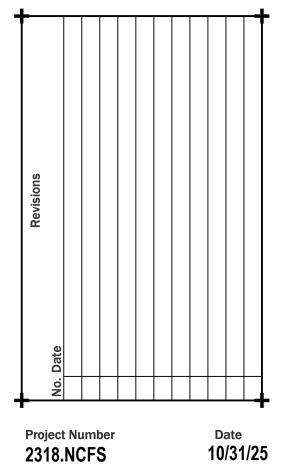
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Scale

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Drawing Title

WALL SECTIONS

Checked

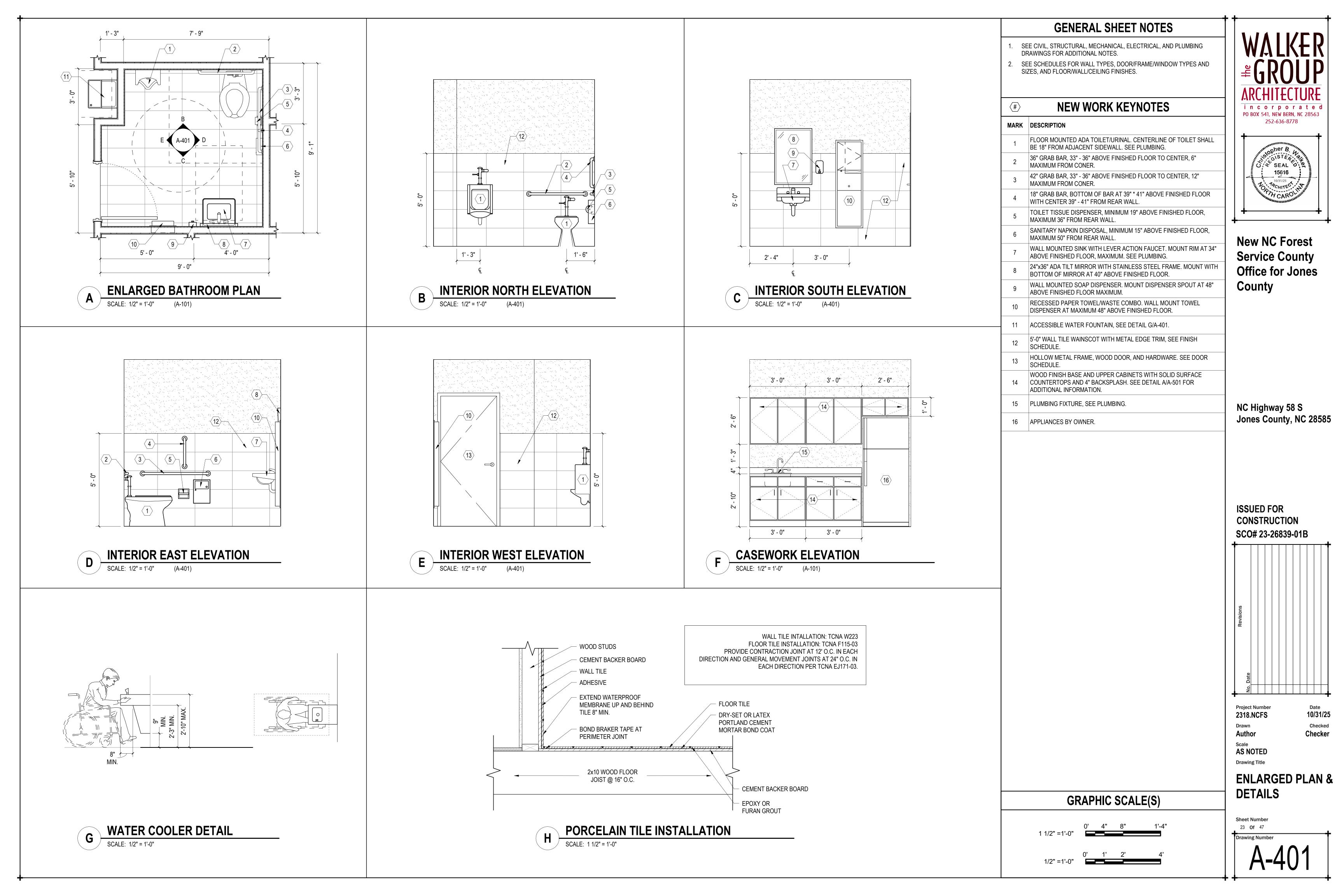
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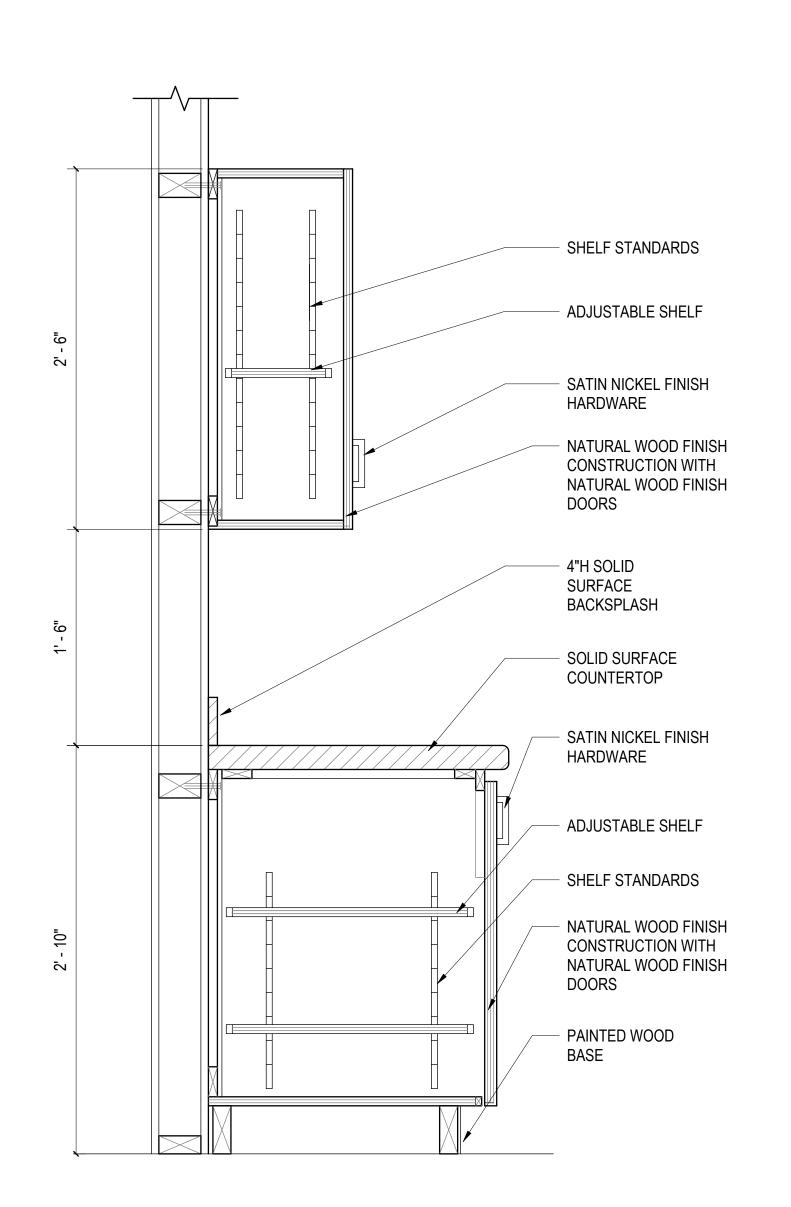
GRAPHIC SCALE(S)

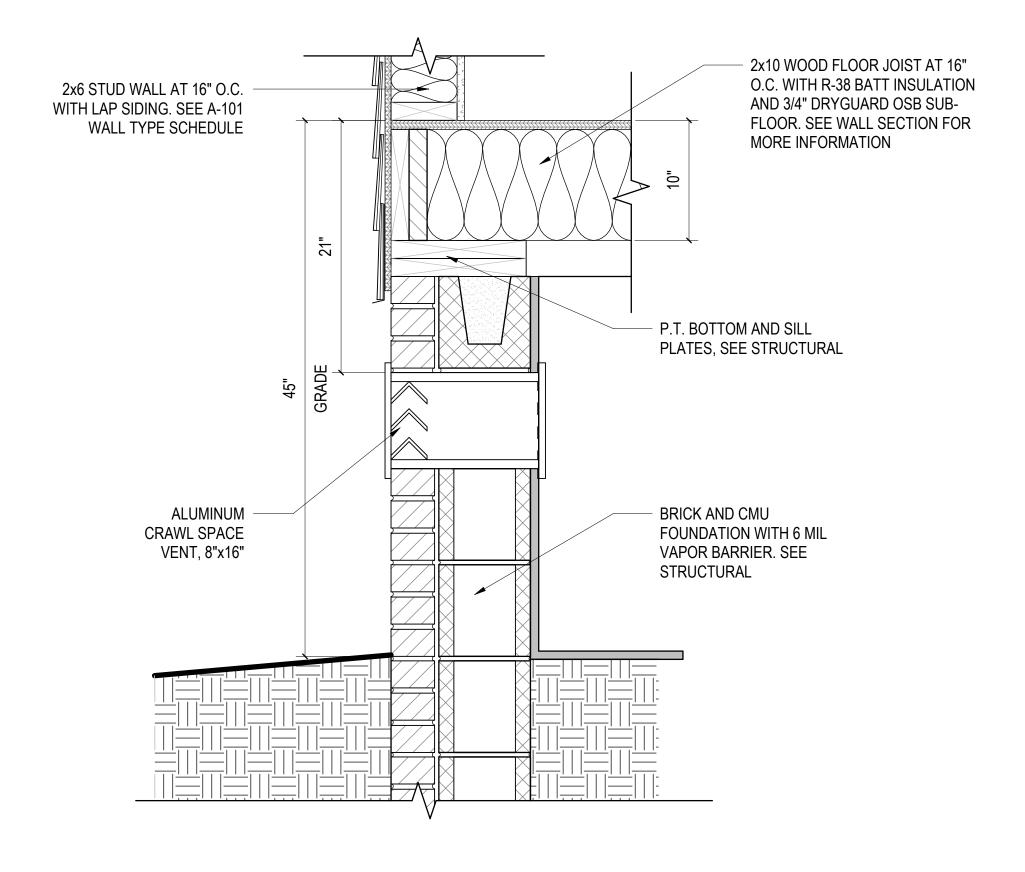
Sheet Number
22 Of 47

Drawing Number

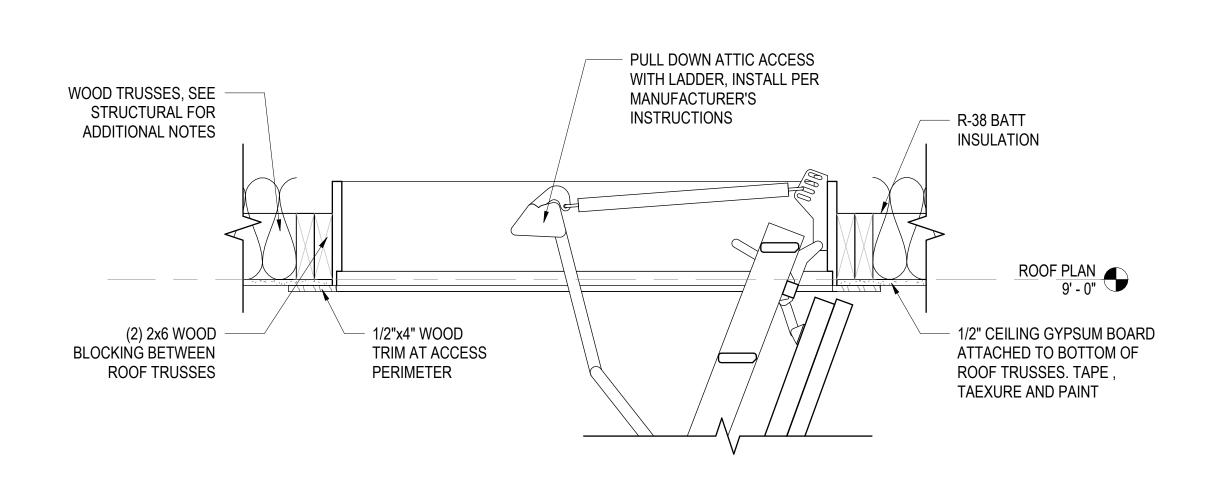
A 3 0







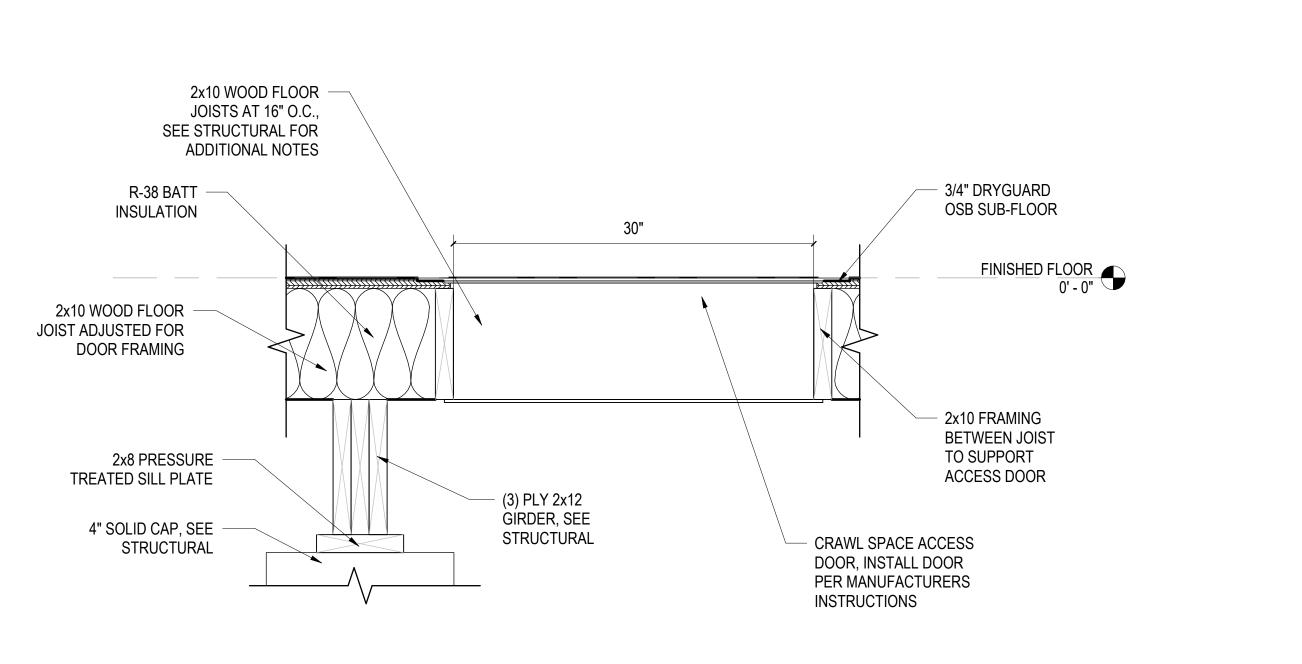
B CRAWL SPACE VENT DETAIL SCALE: 1 1/2" = 1'-0"



A TYPICAL CASEWORK SECTION

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





CRAWL SPACE ACCESS DOOR DETAIL

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

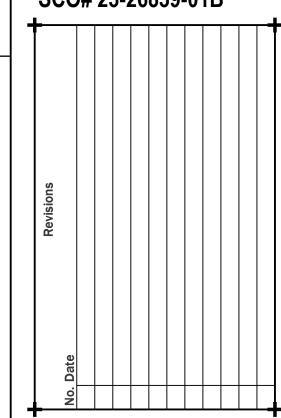
0' 4" 8" 1'-4" 1 1/2" =1'-0"

i n c o r p o r a t e d PO BOX 541, NEW BERN, NC 28563 252-636-8778 O SEAL OF

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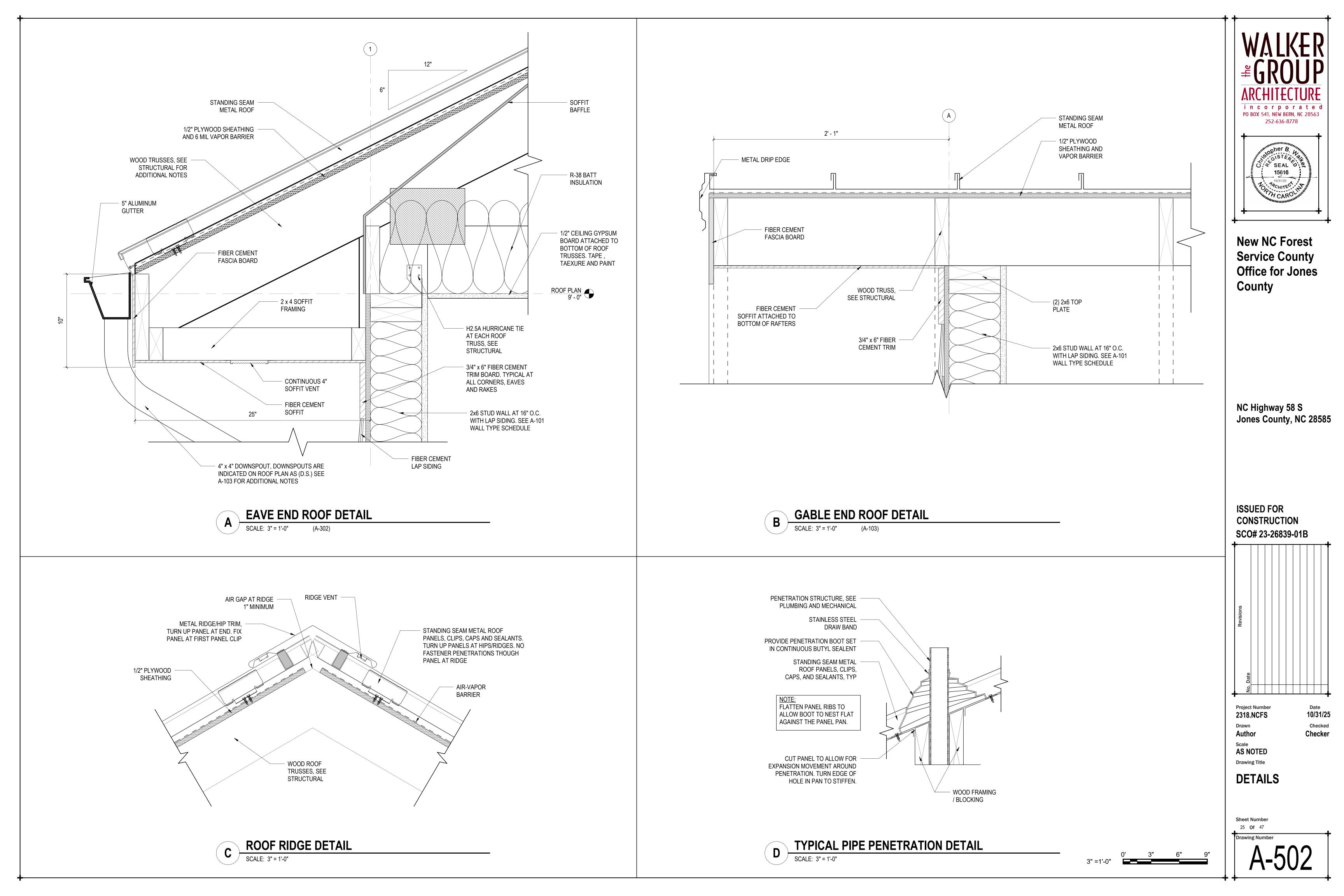
Project Number 2318.NCFS Drawn

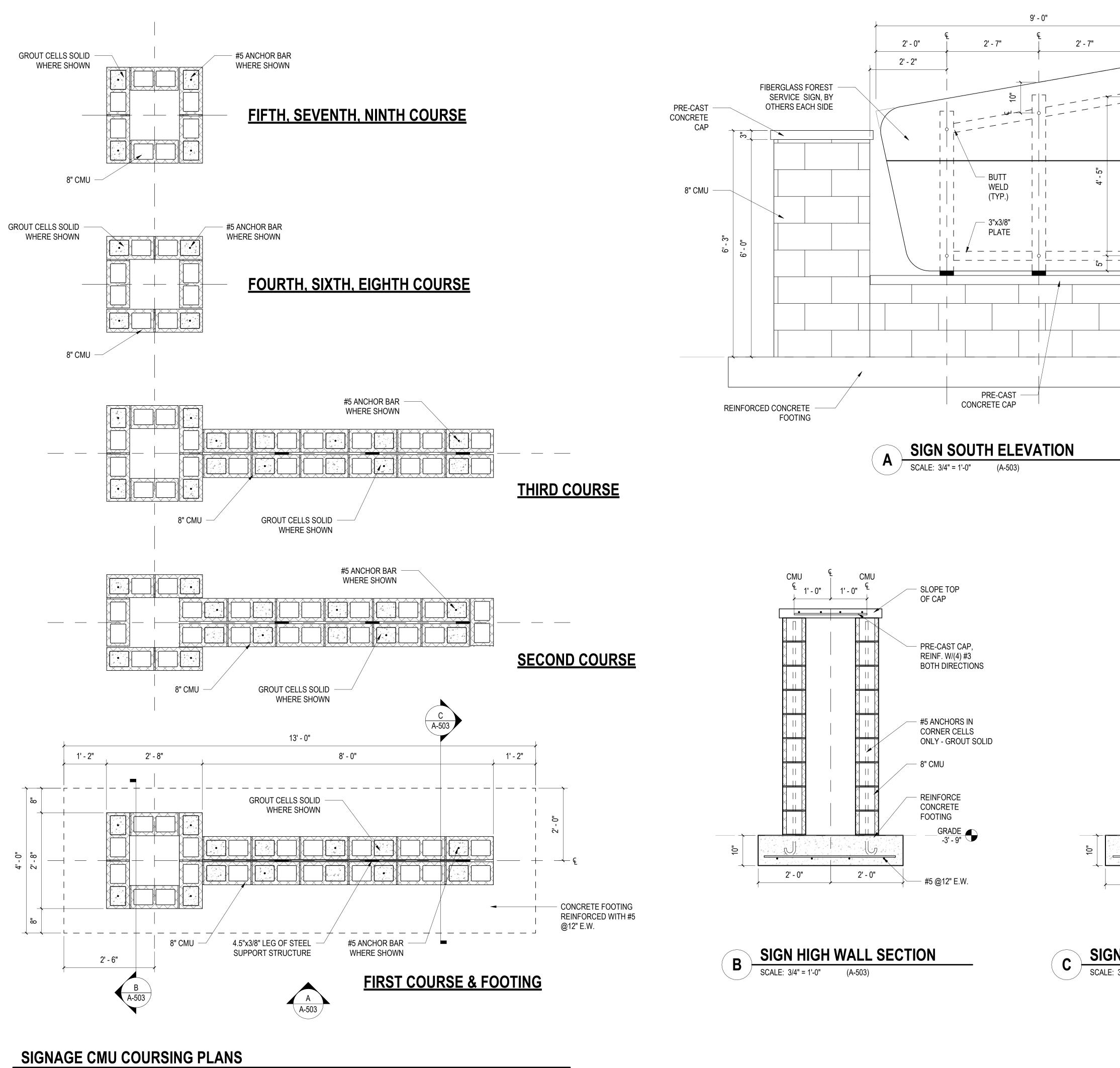
Author Scale

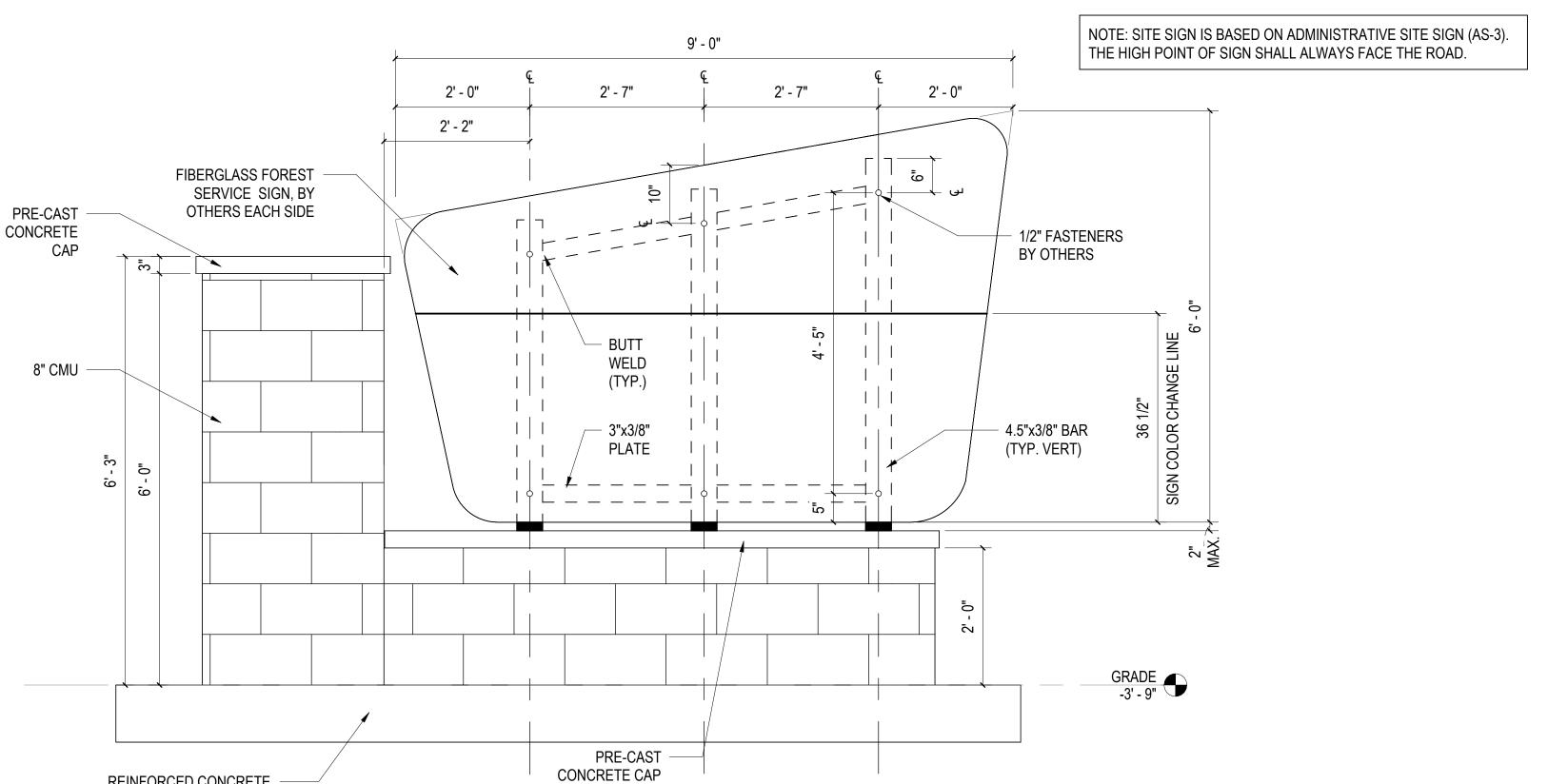
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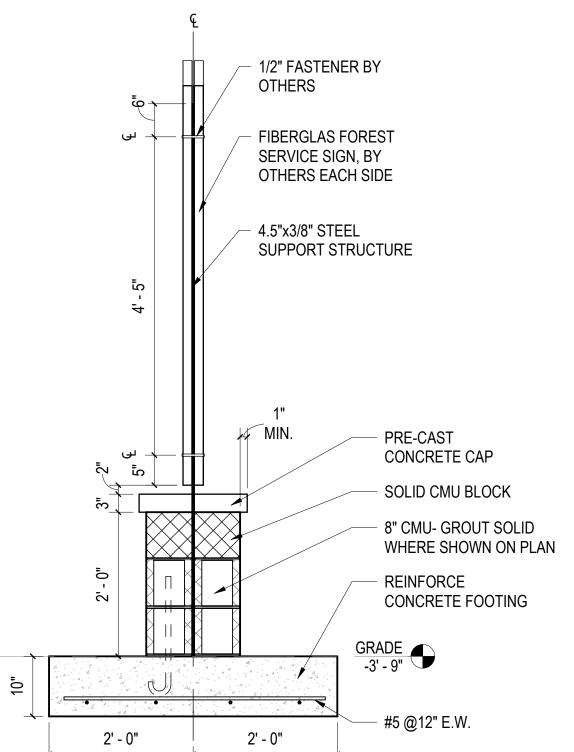
DETAILS

Sheet Number 24 **Of** 47









SIGN LOW WALL SECTION

SCALE: 3/4" = 1'-0" (A-503)

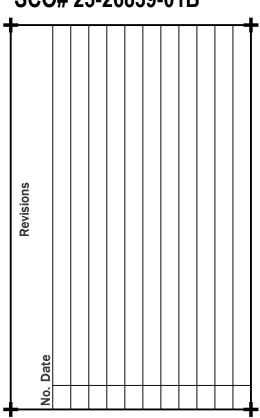
SCALE: 3/4" = 1'-0"

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Project Number 2318.NCFS Drawn

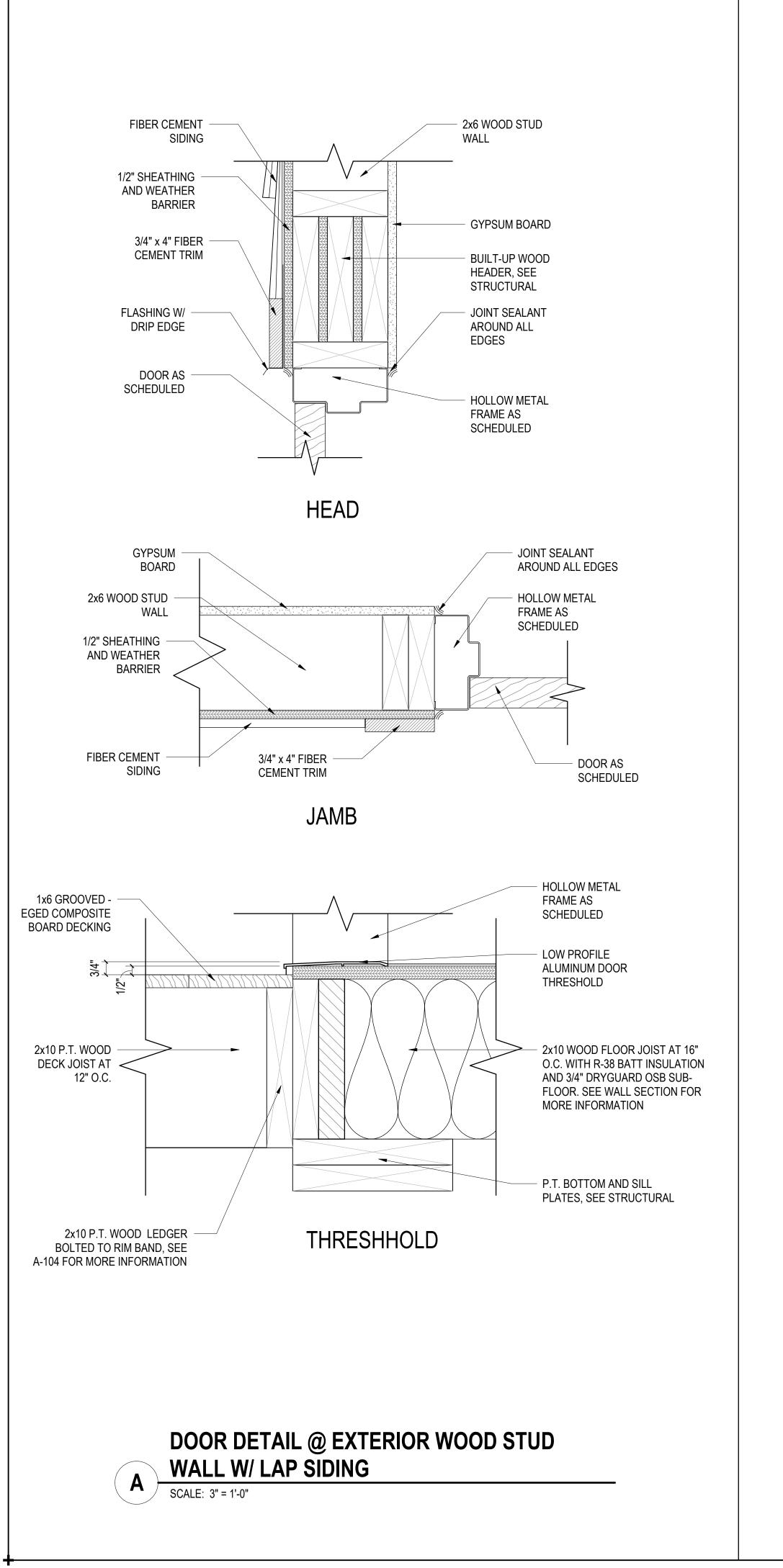
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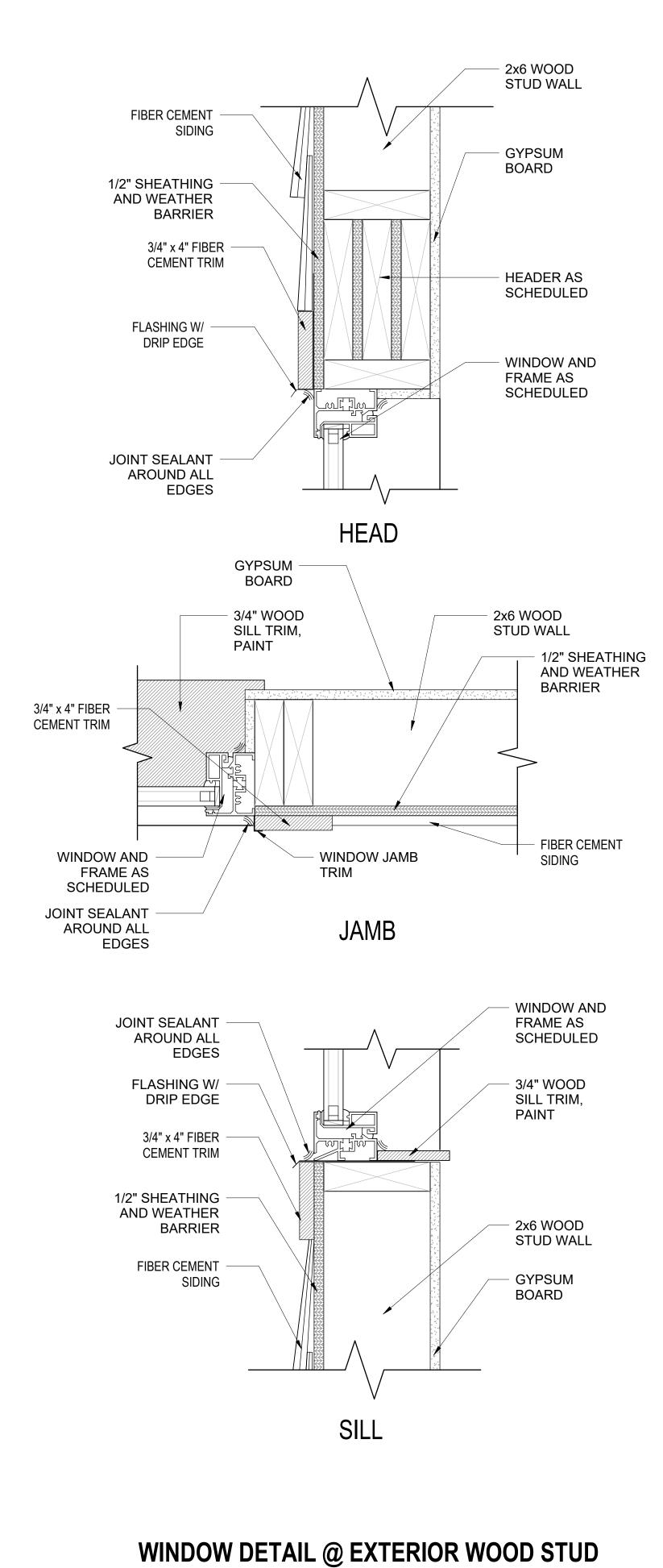
AS NOTED **Drawing Title**

Sheet Number

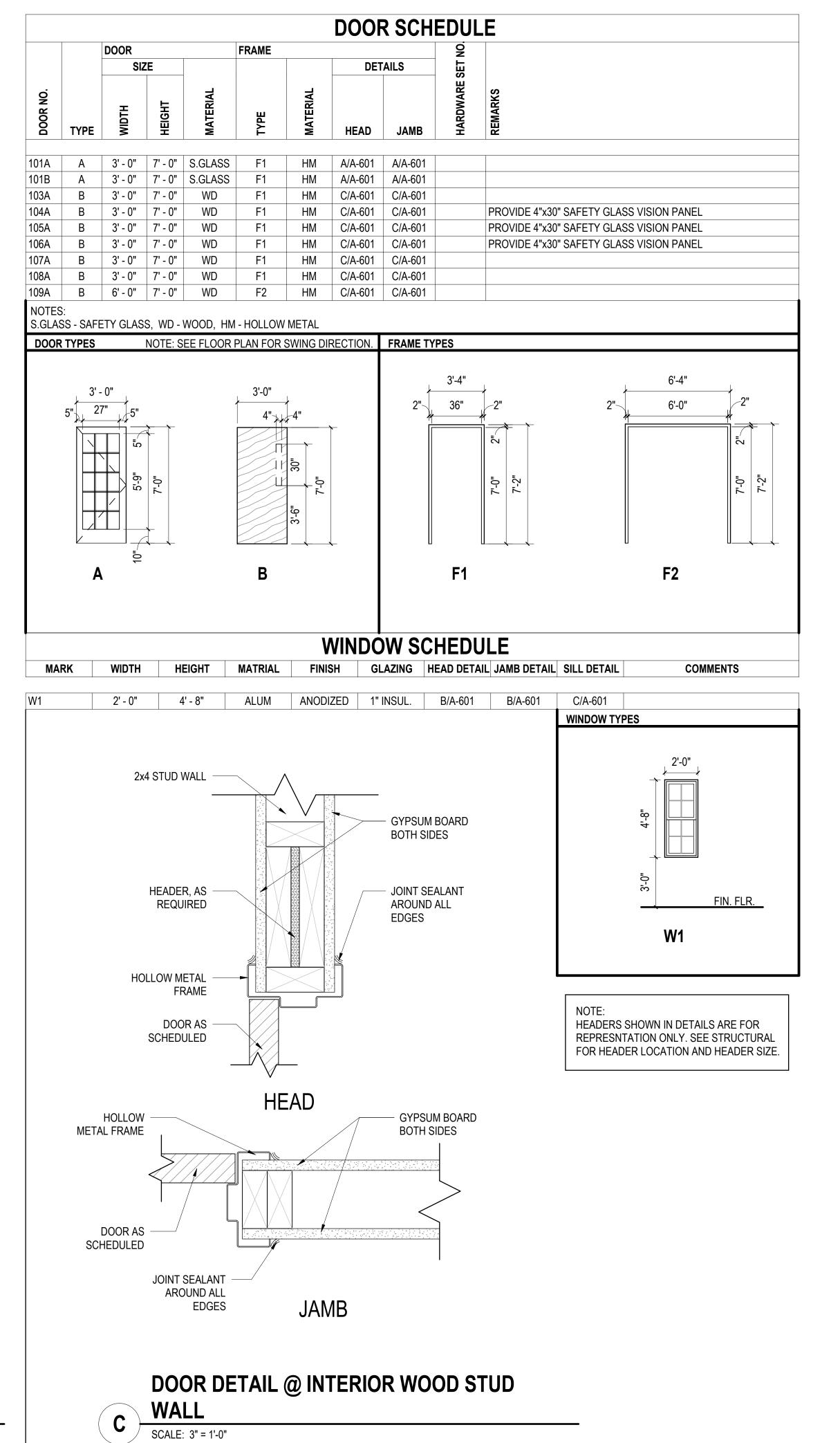
SIGNAGE DETAILS

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WALL W/ LAP SIDING



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Project Number

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Drawing Title

DETAILS

Sheet Number

27 **Of** 47

SCHEDULES &

Drawn

Author

CONSTRUCTION

SCO# 23-26839-01B

Date 10/31/25

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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
- 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 .. SEE GEOTECH REPORT PROVIDED BY HIGHLANDS ENVIRONMENTAL SOLUTIONS, INC. DATED JUNE 23, 2024 DEAD LOADS

..10 PSF

..10 PSF

ROOF	
LIVE LOADS	6

FIRST FLOOR.

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)	133 MPH
NOMINAL DESIGN WIND SPEED (Vnom)	103 MPH
WIND EXPOSURE CATEGORY	C
RISK CATEGORY	II
IMPORTANCE FACTOR (IW)	1.0
WIND BASE SHEAR (ULTIMATE)	V=21.2K
COMPONENT & CLADDING	SEE TABLE THIS SHEET

SEISMIC DESIGN CRITERIA
0.2 SECOND SPECTRAL RESPONSE (Ss)
RISK CATEGORYII IMPORTANCE FACTOR (le)1.0
SEISMIC RESPONSE COEFFICIENT (Cs)
BASIC SEISMIC FORCE RESISTING SYSTEMLIGHT FRAME (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE ANALYSIS PROCEDUREEQUIVALENT LATERAL FORCE
SEISMIC BASE SHEARV=10.7K

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 23, 2024.
- 2) FOUNDATIONS ARE DESIGNED BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 1,500 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.
- 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

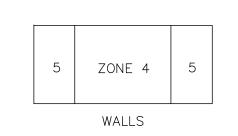
- 1) ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE AMERICAN CONCRETE INSTITUTE SPECIFICATIONS FOR STRUCTURAL CONCRETE.
- 2) ALL STRUCTURAL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS UNLESS NOTED OTHERWISE.
- 3) MINIMUM CONCRETE COVER FOR REINFORCING 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 5/8".
- 16) STRUCTURAL BRICK SHALL CONFORM TO ASTM C62.
- 17) BRICK SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 1500
- 18) MORTAR SHALL BE TYPE S AND CONFORM TO ASTM C270.
- 19) CONCRETE AND MASONRY SHALL BE ALLOWED TO PROPERLY CURE PRIOR TO LOADING.

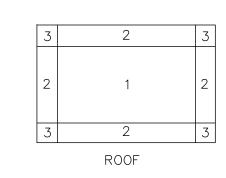
FRAMING

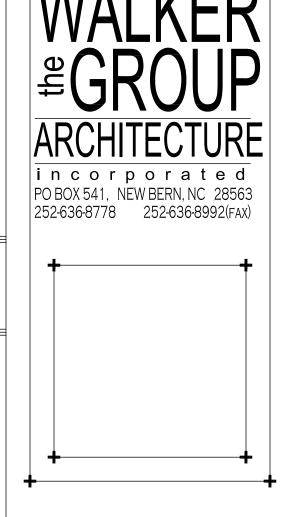
- 1) ALL NAILS USED IN PRESSURE TREATED WOOD SHALL BE DOUBLE HOT-DIPPED GALVANIZED OR STAINLESS STEEL
- BEAMS AND HEADERS SHALL BE SOUTHERN YELLOW PINE #2 GRADE OR BETTER.
- ALL PLYWOOD SHALL BE APA RATED.
- STUDS ARE TO BE DOUBLED AT ALL ANGLES, CORNERS, OPENINGS.
- ALL WOOD IN CONTACT WITH CONCRETE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

COMPONENT & CLADDING LOAD CRITERIA

COMPONENT AND CLADDING LOAD CRITERIA (PSF)										
COMPONENT	DMPONENT ROOF ZONE 1			ROOF ZONE 2 ROO		ROOF ZONE 3		WALL ZONE 4		NE 5
AREA	PRESSURE	SUCTION	PRESSURE	SUCTION	PRESSURE	SUCTION	PRESSURE	SUCTION	PRESSURE	SUCTION
10 SF	23.4	-55.0	23.4	-87.7	23.4	-102.3	38.6	-41.9	38.6	-51.7
20 SF	21.1	-55.0	21.1	-76.8	21.1	-86.1	36.9	-40.1	36.9	-48.2
50 SF	18.0	-47.2	18.0	-47.2	18.0	-64.8	34.6	-37.8	34.6	-43.6
100 SF	16.0	-41.3	16.0	-51.5	16.0	-64.8	32.8	-36.1	32.8	-40.1

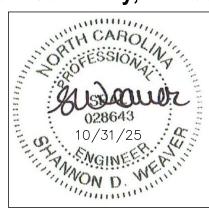






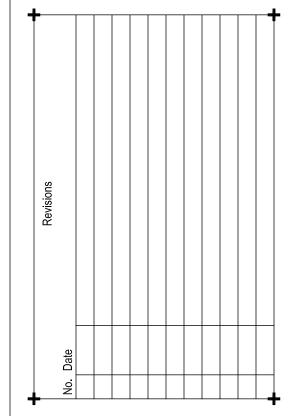
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112 QUEENS CREEK RD. SWANSBORO, NC 28584 910.376.5582 SWEAVER@LARION.NET

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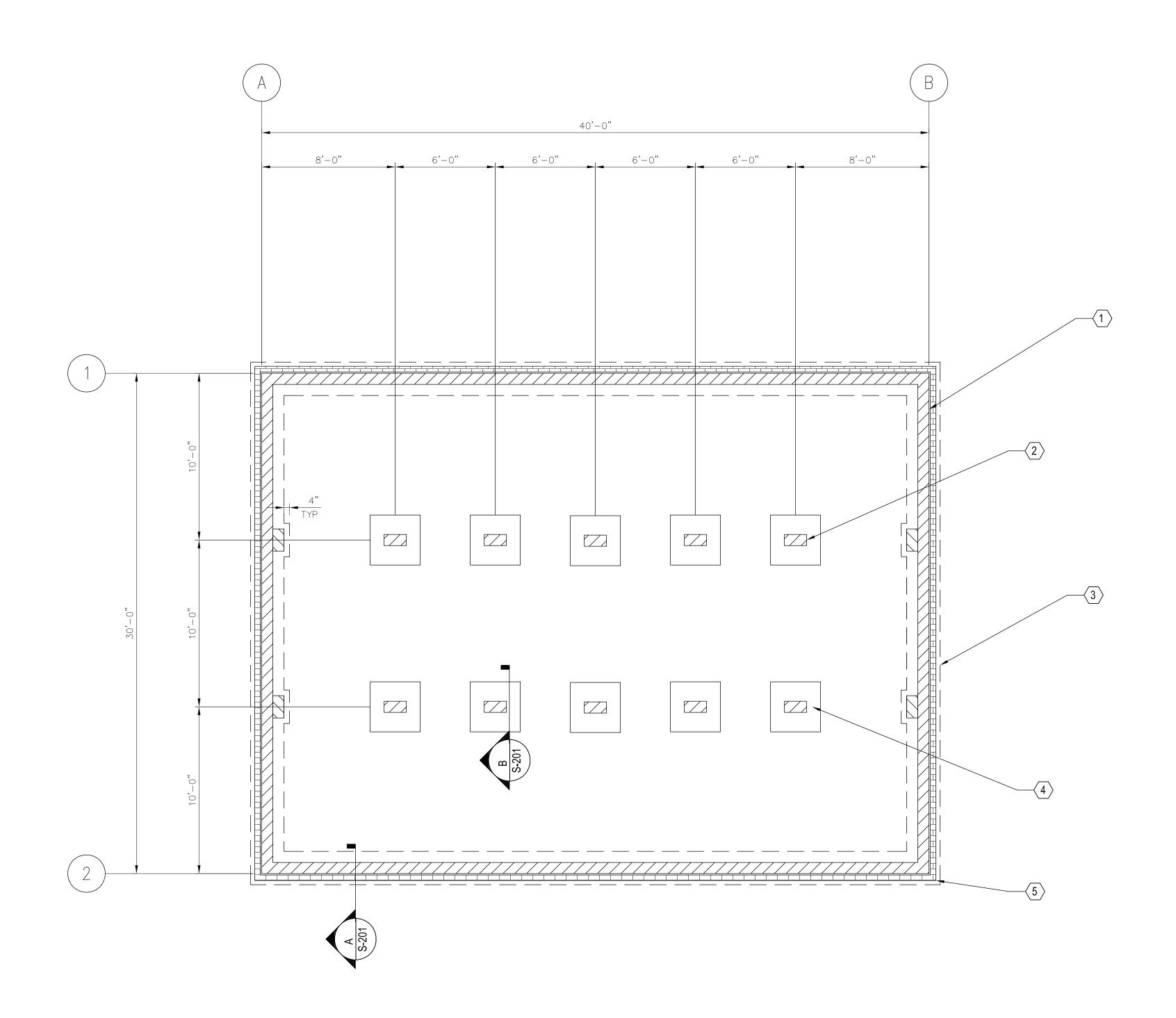
10/31/25

Project Number 2318.NCFS

Drawing Title

STRUCTURAL **GENERAL** NOTES

Sheet Number 28 of 47



FOUNDATION PLAN

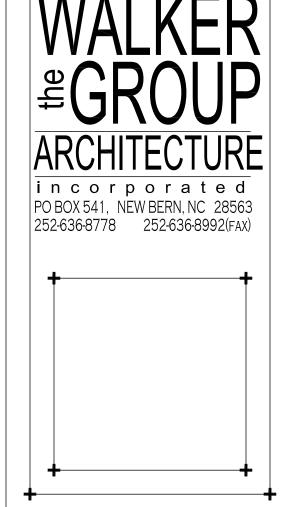
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GENERAL SHEET NOTES

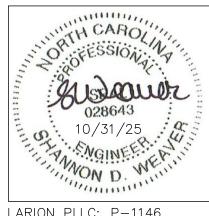
- 1. SEE SHEET S-001 FOR ADDITIONAL STRUCTURAL NOTES.
- 2. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

(#)	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)



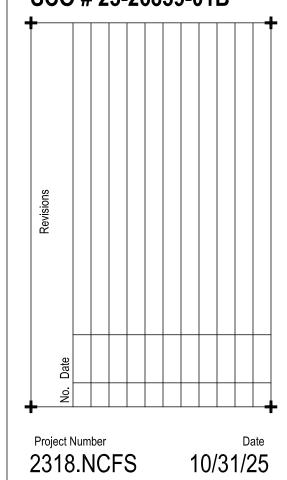
New NC Forest Service County Office for Jones County

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LARION PLLC: P-1146
112 QUEENS CREEK RD.
SUITE 4
SWANSBORO, NC 28584
910.376.5582
SWEAVER@LARION.NET

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Checked SDW

Project Number 2318.NCFS Drawn SDW

AS NOTED

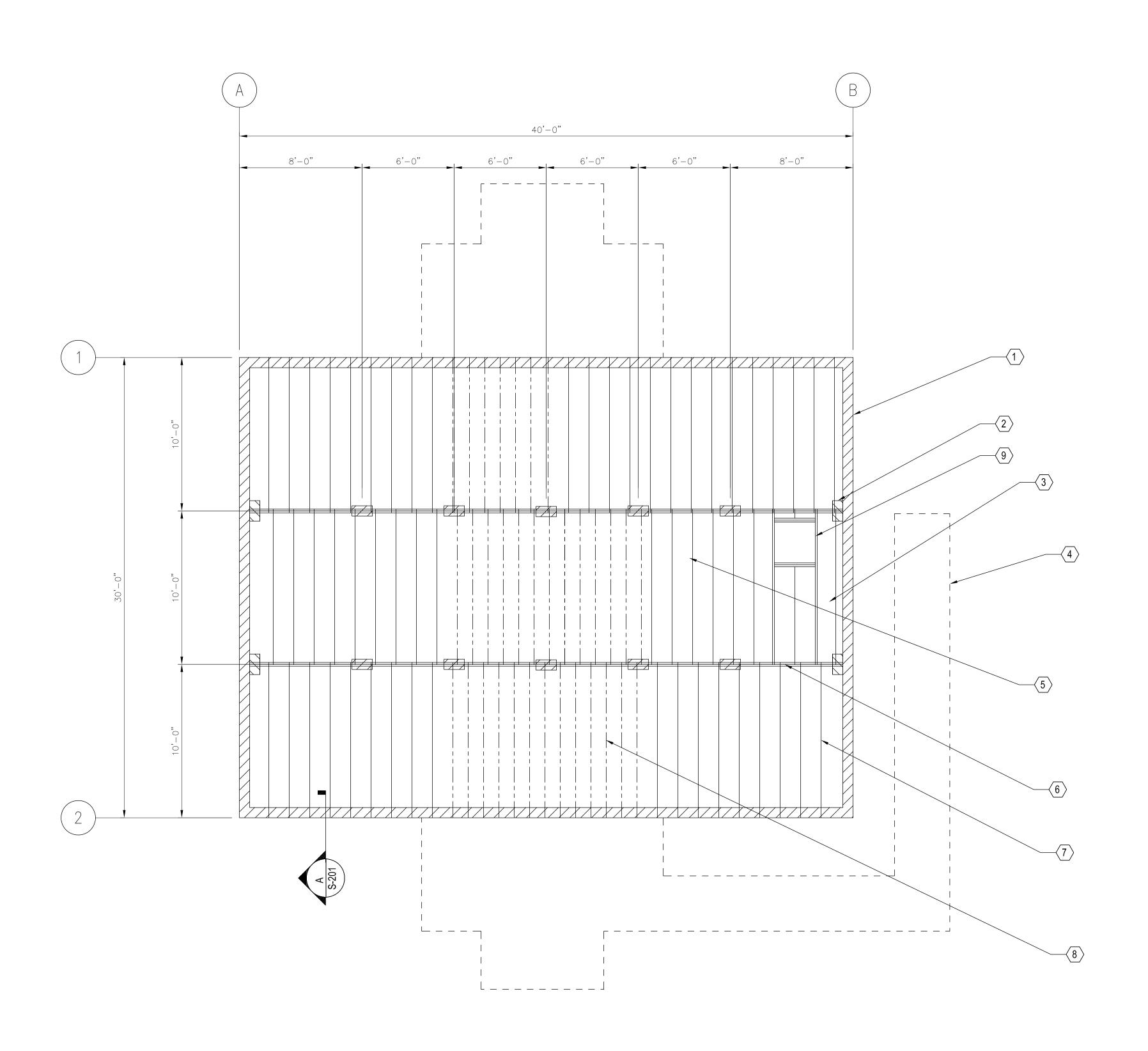
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Sheet Number 29 Of 37

Drawing Number

GRAPHIC SCALE(S)

1/4" =1'-0"



FIRST FLOOR FRAMING PLAN

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



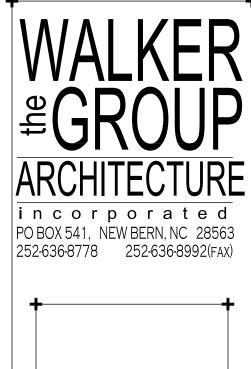
GENERAL SHEET NOTES

- 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

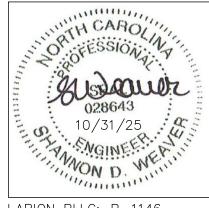
ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS

ON CRAWLSPACE ACCESS DOOR.



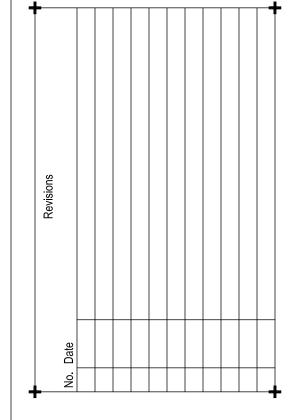
New NC Forest Service County Office for Jones County

NC Highway 58 S Jones County, NC 28585



LARION PLLC: P-1146
112 QUEENS CREEK RD.
SUITE 4
SWANSBORO, NC 28584
910.376.5582
SWEAVER@LARION.NET

ISSUED FOR CONSTRUCTION SCO # 23-26839-01B



10/31/25

Checked SDW

Project Number
2318.NCFS
Drawn
SDW

SDW
Scale
AS NOTED

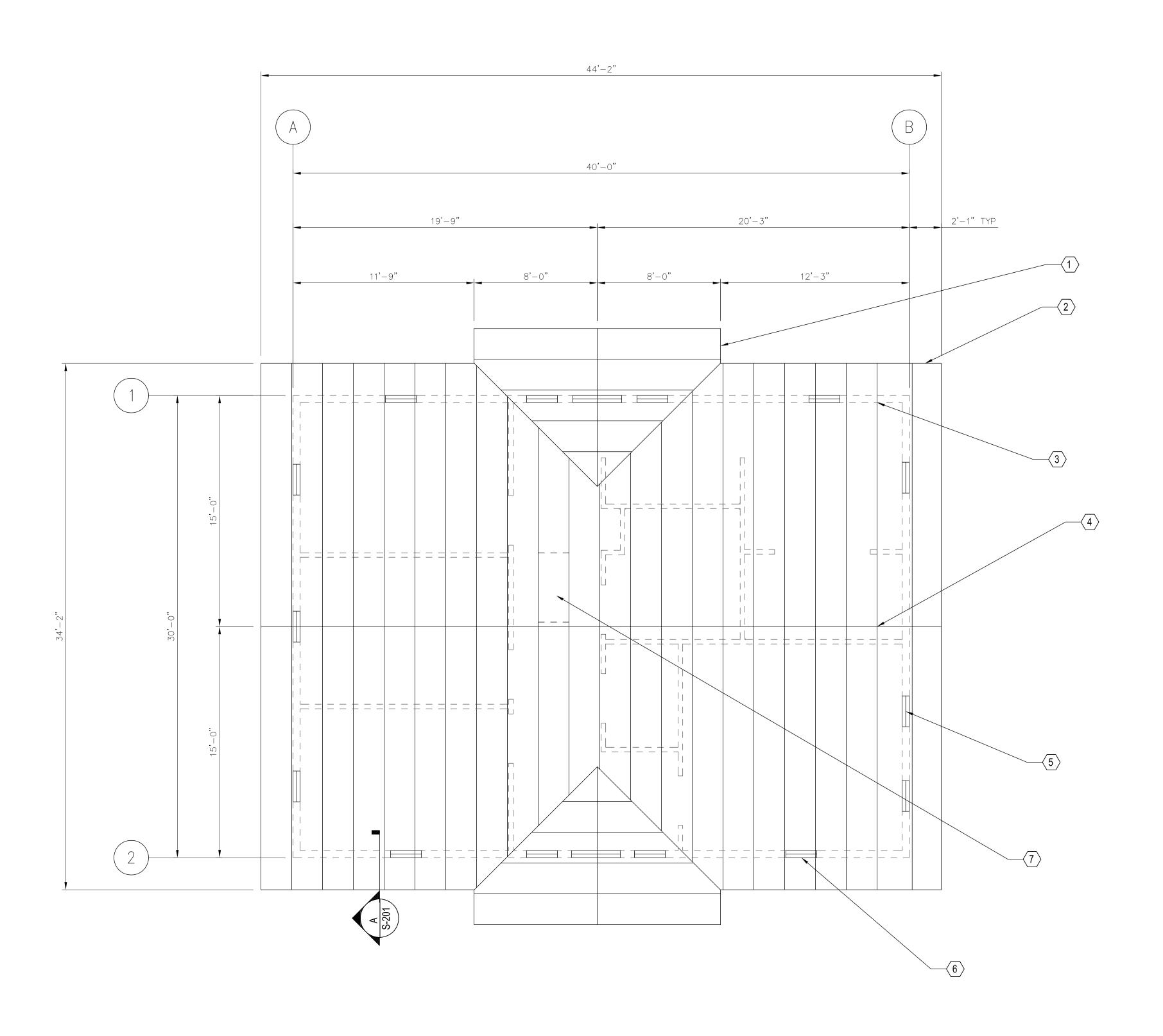
FIRST FLOOR
FRAMING PLAN

Sheet Number 30 of 47

Drawing Number
S-102

GRAPHIC SCALE(S)

1/4" =1'-0"



ROOF FRAMING PLAN SCALE: 1/4" = 1'-0"



GENERAL SHEET NOTES

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

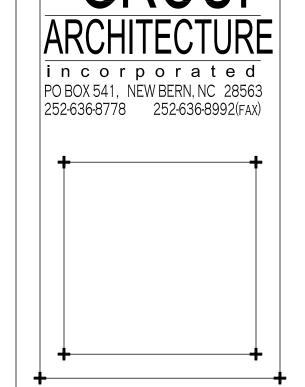
NEW WORK KEYNOTES

MARK DESCRIPTION OVERBUILT ROOF TRUSSES/CANTILEVERED TRUSS DESIGN BY OTHERS (TYP) OVERHANG OUTLOOKER FRAMING DESIGN BY OTHERS ROOF TIE DOWNS AS SPECIFIED BY THE TRUSS MANUFACTURER; MINIMUM OF (3) ALTERNATIVE SUPPLIERS CITED (TYP) 4 POOE TRUSS BY OTHERS (TVD)

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)

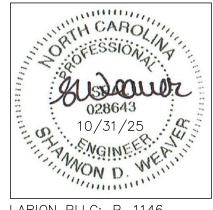
ROOF TRUSSES ARE TO BE DESIGNED TO

ACCOMMODATE A PULL DOWN ATTIC ACCESS; SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS.



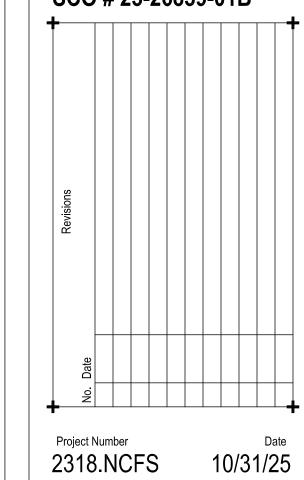
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ISSUED FOR CONSTRUCTION SCO # 23-26839-01B



Project Number 2318.NCFS Drawn SDW

AS NOTED

Drawing Title ROOF FRAMING PLAN

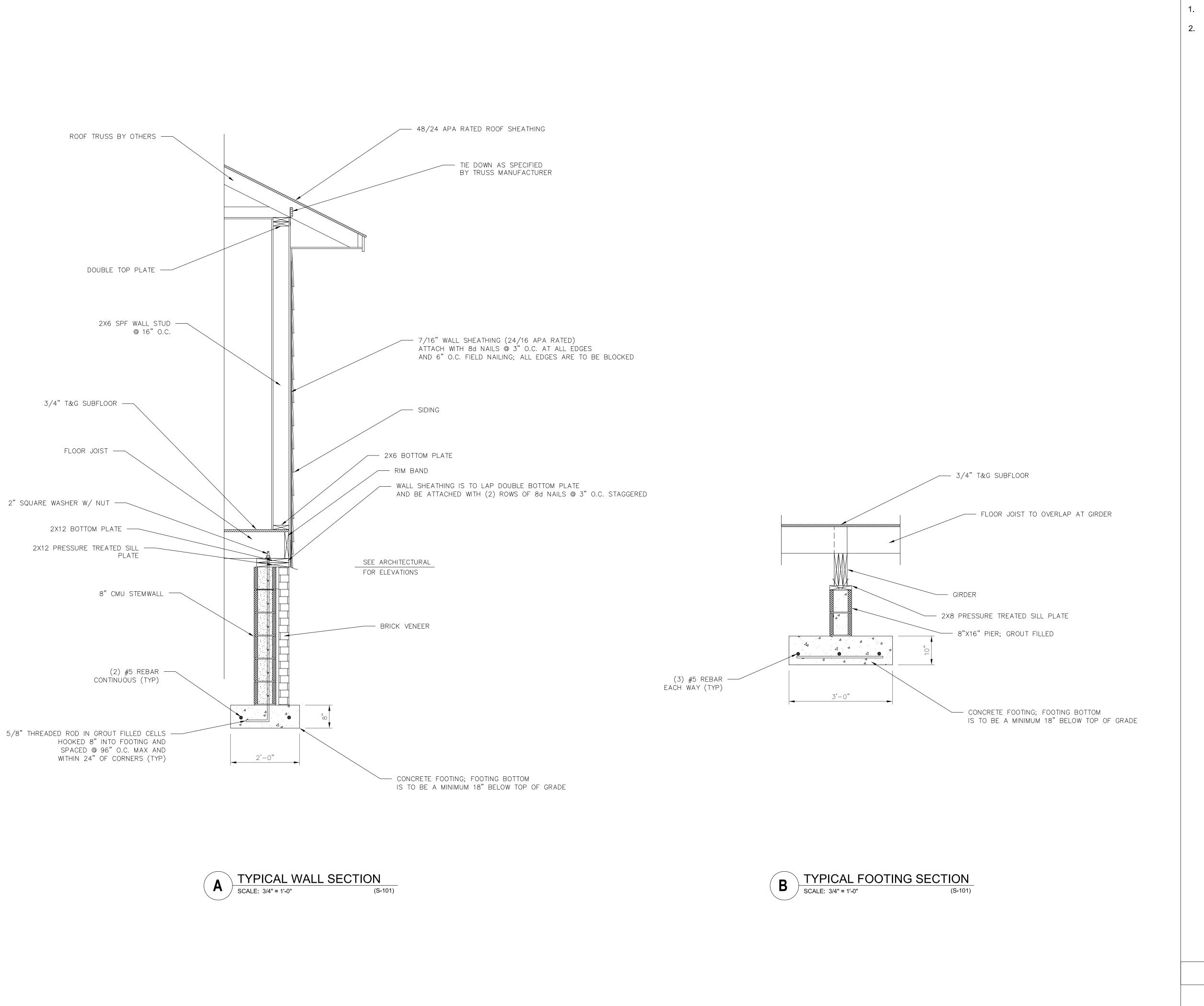
Checked SDW

Sheet Number 31 Of 47

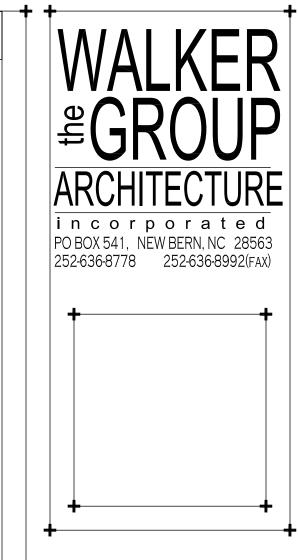
Drawing Number

GRAPHIC SCALE(S)

1/4" =1'-0"

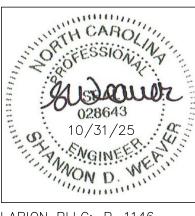


- 1. SEE SHEET S-001 FOR ADDITIONAL STRUCTURAL NOTES.
- 2. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.



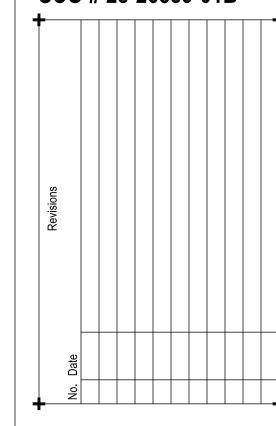
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ISSUED FOR CONSTRUCTION SCO # 23-26839-01B



Project Number 2318.NCFS

Drawn SDW Scale

AS NOTED Drawing Title

TYPICAL SECTIONS

10/31/25

Checked SDW

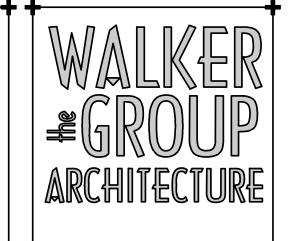
Sheet Number 32 Of 47 Drawing Number

C EnTech	PLUMBII	NG 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
Ö	AAV	AIR ADMITTANCE VALVE
عالًا	VTR	VENT THRU ROOF
 	wco	WALL CLEANOUT
\otimes	FCO	FLOOR CLEANOUT
	COG	CLEANOUT ON GRADE
\otimes	FD	ROUND FLOOR DRAIN
++	НВ	HOSE BIB/HYDRANT
++	FHB	FROSTPROOF HOSE BIB/HYDRANT
Ą	WHA	WATER ARRESTOR (PDI SIZE "A")
── ₩	_	GATE VALVE
——-ф——	_	BALL VALVE
	BFP	BACKFLOW PREVENTER
	_	UNION
─	_	CONCENTRIC REDUCER
——	RP	RECIRCULATION PUMP
	_	FLOW DIRECTION ARROW
\longleftrightarrow	_	FIXTURE MARK (SEE SCHEDULE)
	G.C.	GENERAL CONTRACTOR
	P.C.	PLUMBING CONTRACTOR
	M.C. E.C.	MECHANICAL CONTRACTOR 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.





TEL: (919) 778-9064

PROJECT NO. PROJECT MGR. DRAWN BY

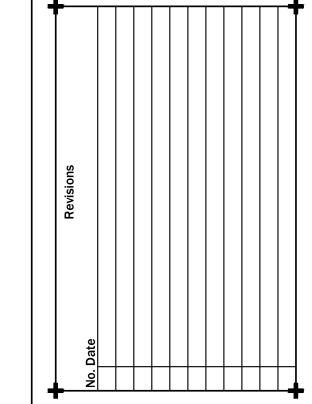
GOLDSBORO, NC 27532



New NC Forest Service County Office for Jones County

NC HIGHWAY 58 S JONES COUNTY, NC 28585

ISSUED FOR CONSTRUCTION SCO# 23-26839-01B



Project Number 2318.NCFS

2318.NGF Drawn

Scale
AS NOTED
Drawing Title

PLUMBING NOTES & LEGEND

10/31/25

Checked

Sheet Number
1 Of 6

Drawing Number

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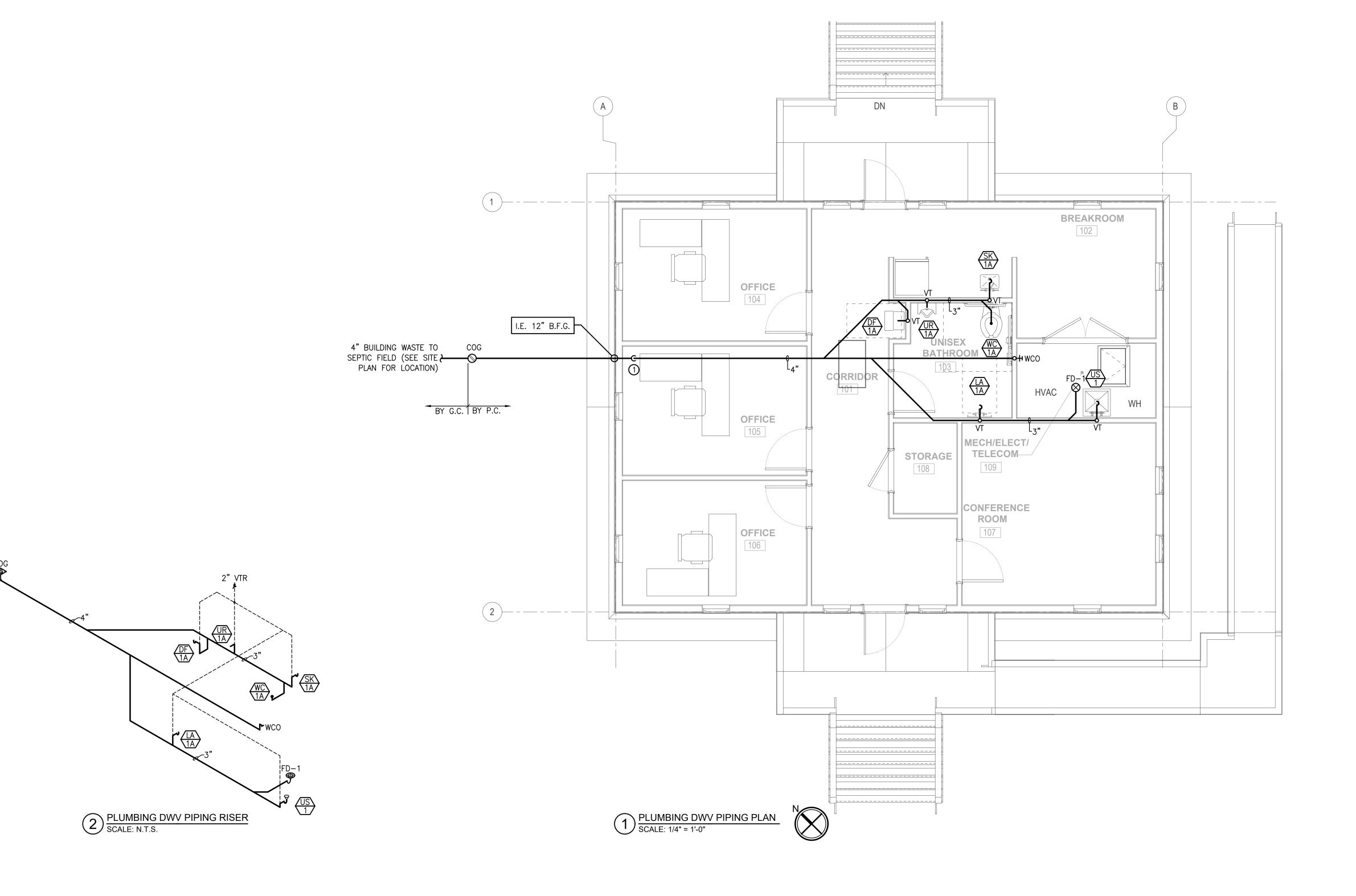
C

GENERAL NOTE:

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.







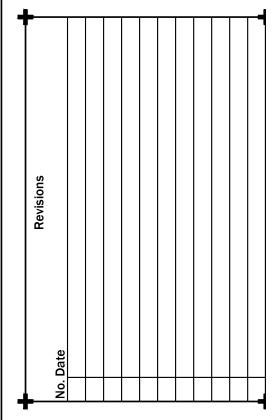
PROJECT NO. PROJECT MGR. DRAWN BY D. HAM D. HILL



New NC Forest Service County Office for Jones County

NC HIGHWAY 58 S JONES COUNTY, NC 28585

ISSUED FOR CONSTRUCTION SCO# 23-26839-01B



Date 10/31/25

Project Number 2318.NCFS

Scale
AS NOTED Drawing Title

PLUMBING PLANS

Sheet Number

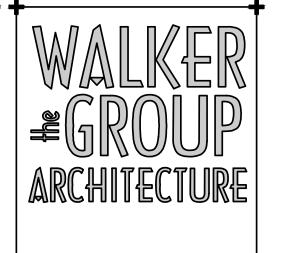
INSTALLATION KEYED NOTES " # ": DOMESTIC HOT AND COLD WATER SHUTOFF VALVE LOCATED ABOVE WATER HEATER, NOT WITHIN CEILING. DN BREAKROOM 102 OFFICE STORAGE 108 MECH/ELECT/ TELECOM 109 CONFERENCE ROOM OFFICE 106

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

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

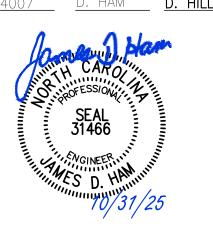
MAIN BUILDING SHUTOFF — VALVE IN VALVE BOX

1" DOMESTIC WATER SUPPLY
(SEE SITE PLAN FOR METER
BACKFLOW PREVENTER LOCATION)





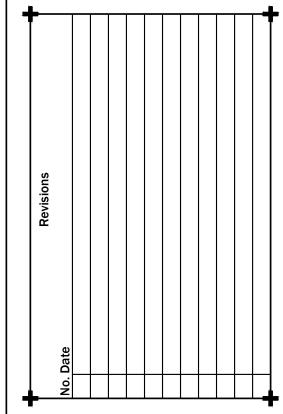
PROJECT NO. PROJECT MGR. DRAWN BY D. HAM D. HILL



New NC Forest Service County Office for Jones County

NC HIGHWAY 58 S **JONES COUNTY, NC** 28585

ISSUED FOR CONSTRUCTION SCO# 23-26839-01B



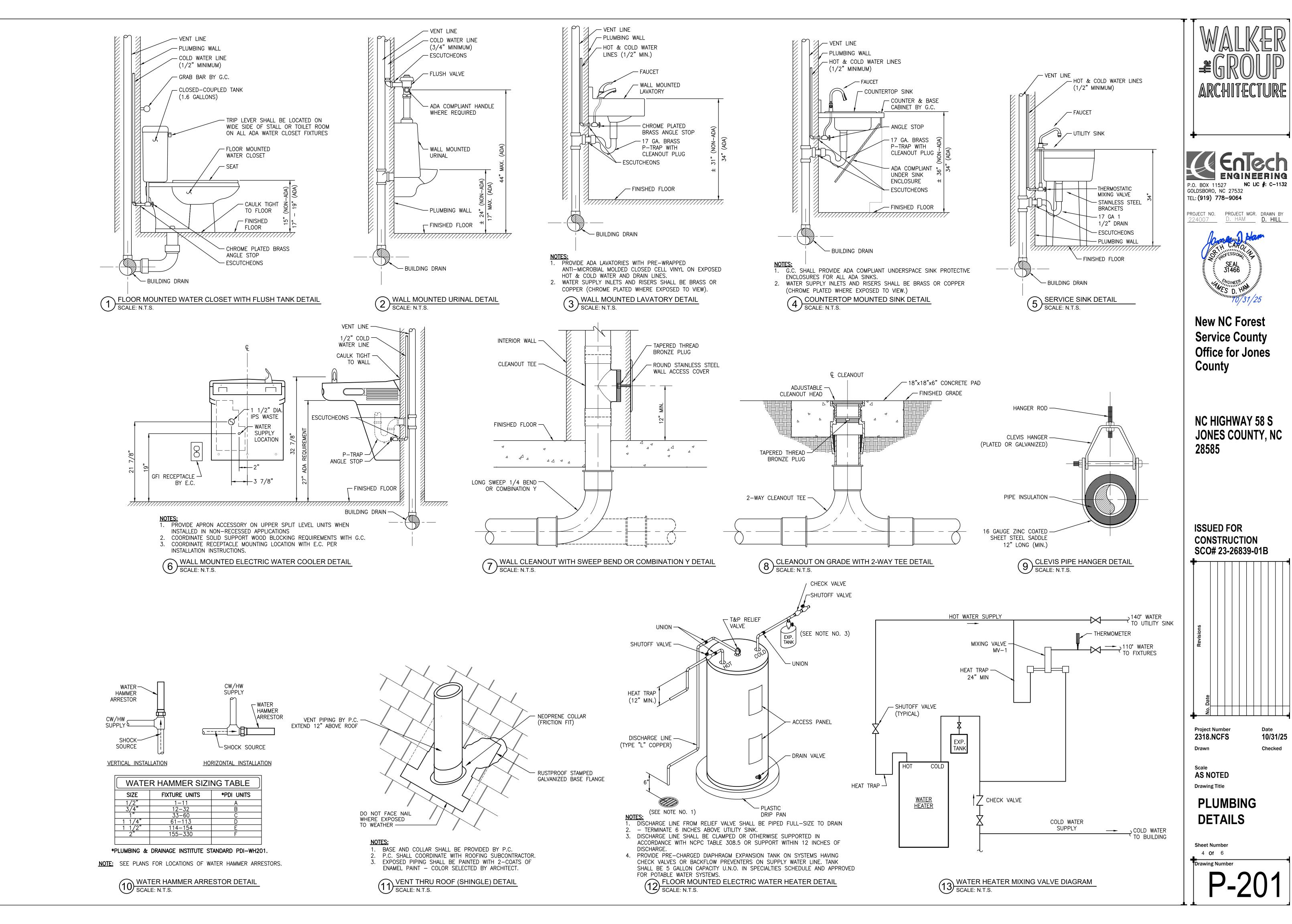
Project Number 2318.NCFS

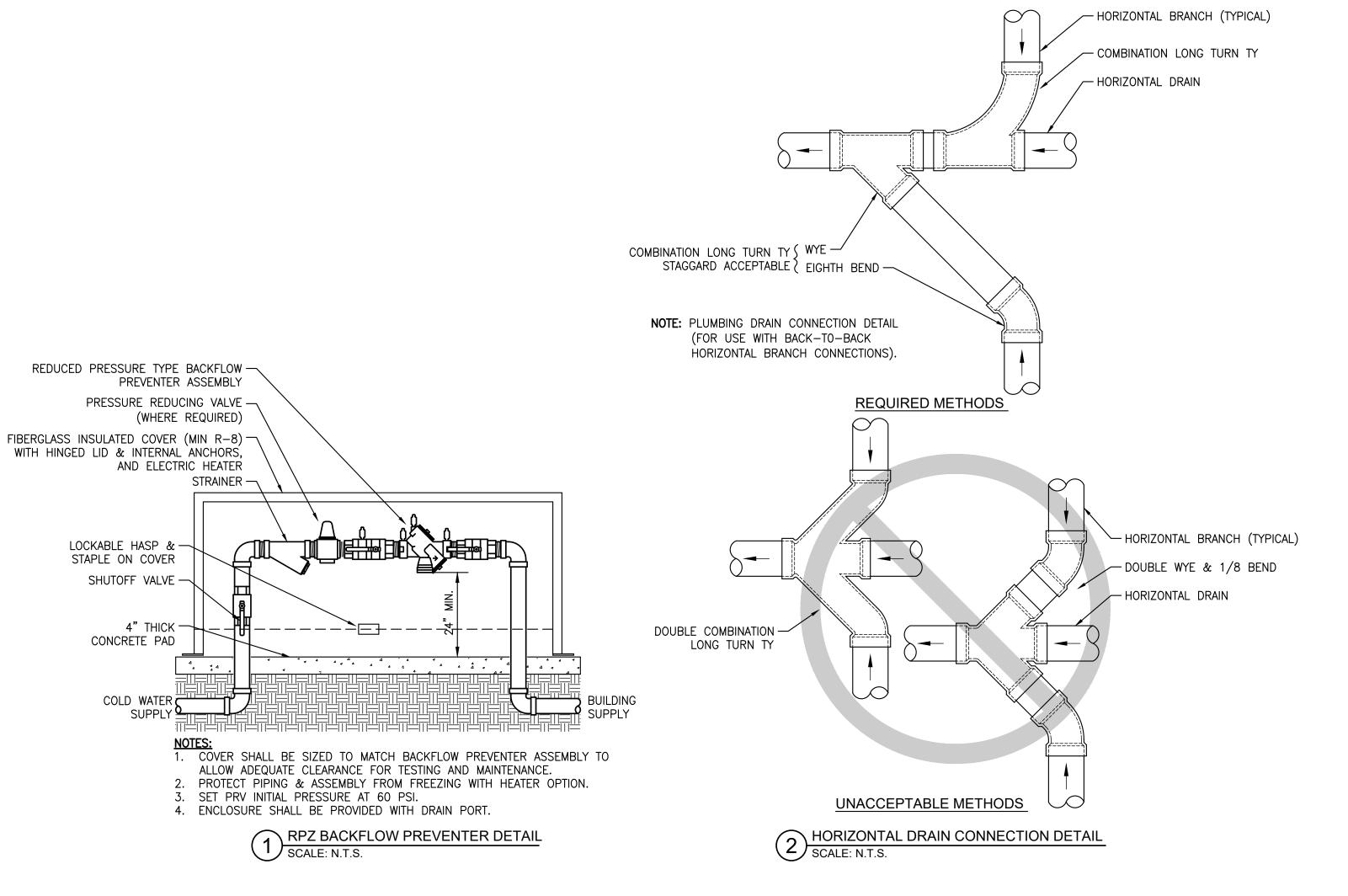
Date **10/31/25**

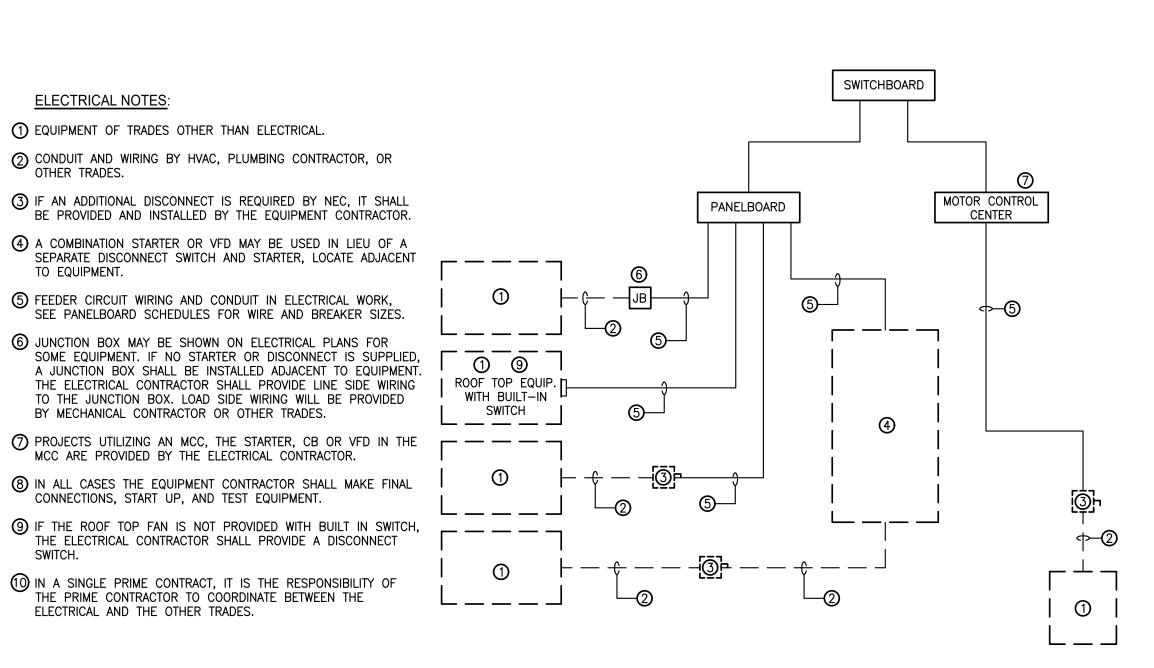
Checked

Scale
AS NOTED Drawing Title

PLUMBING PLANS







3 ELECTRICAL COORDINATION SCALE: N.T.S.

ELECTRICAL NOTES:

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

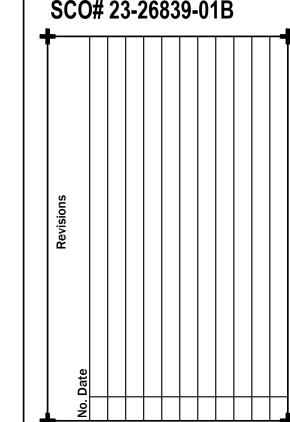
PROJECT NO. PROJECT MGR. DRAWN BY D. HILL



New NC Forest Service County Office for Jones County

NC HIGHWAY 58 S JONES COUNTY, NC 28585

ISSUED FOR CONSTRUCTION SCO# 23-26839-01B



Project Number 2318.NCFS Drawn

10/31/25 Checked

AS NOTED Drawing Title

PLUMBING DETAILS

Sheet Number 5 **O**f 6

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.

CENTEC	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	SERVICE SINK (24"Wx20"Lx13"D) SINGLE MODLED STONE BOWL WITH BAKED ENAMEL STEEL LEGS, DECK MOUNTED FACET	1/2"	1/2"	1 1/2"	EQUAL TO FIAT TSB3001 MATERIAL: MOLDED STONE COLOR: WHITE					

(C)	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	OATEY	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	FREEZLESS 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					

(CE	ELECTRIC WATER HEATER SCHEDULE										
MARK	SIZE	GPH	TEMP. RISE	KW	VOLT/PH	FLA	CW CONN.	HW CONN.	MANF.	REF. MODEL	OPERATING SIZE HTxDI
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											
FIVTURE TYPE	OTY	DRAIN FIXT	URE UNITS		WATE	R SUPPLY FIXTU	JRE UNITS				
FIXTURE TYPE	QTY.	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	104D (EI	NATIOE TIVILO)	11.50		TOTAL LOAD (I	4.50	16.25				
TOTAL LOAD (FIXTURE UNITS)			11.50		TOTAL	8.5	18.5				
	MINIM	UM LINE SIZE	3"		MINII	MUM LINE SIZE	3/4"	1"			
	APPL	IED LINE SIZE	4"		APP	LIED LINE SIZE	3/4"	1"			

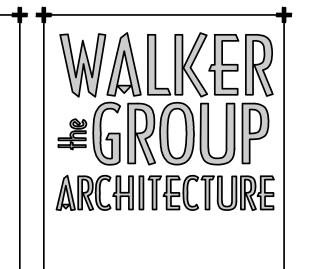
NOTES:

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

C ENTOCH EMAINEERING	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.





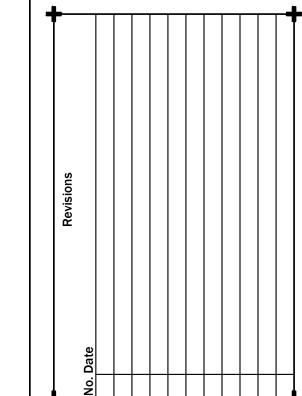
PROJECT NO. 224007 PROJECT MGR. DRAWN BY D. HILL



New NC Forest Service County Office for Jones County

NC HIGHWAY 58 S **JONES COUNTY, NC** 28585

ISSUED FOR CONSTRUCTION SCO# 23-26839-01B



Date 10/31/25

Project Number 2318.NCFS

Scale
AS NOTED **Drawing Title**

PLUMBING SCHEDULES

Sheet Number 6 **O**f 6

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 0&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
- 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.

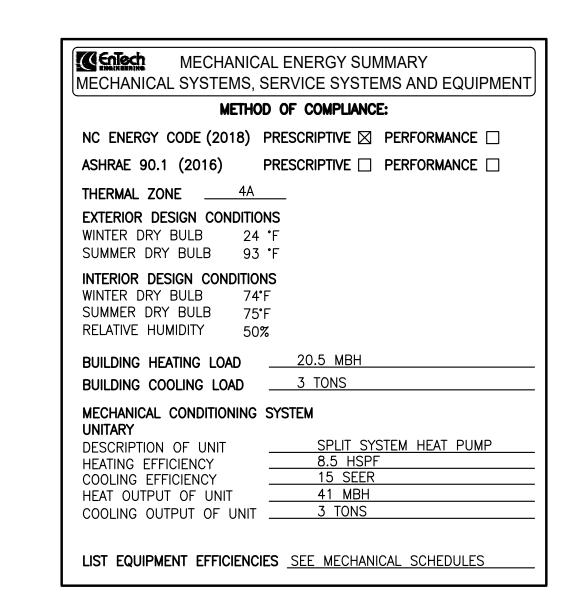
DUCT SYSTEMS:

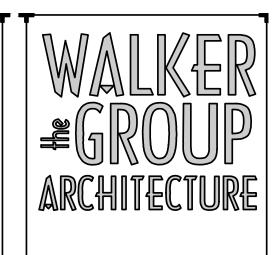
- 1. FABRICATE AND INSTALL DUCT PER SMACNA STANDARDS FOR 3-INCH WC UPSTREAM OF AIR TERMINALS AND 2-INCH WC FOR ALL OTHER DUCTWORK. FOR INTERIOR LOCATIONS, USE GALVANIZED METAL MINIMUM G-60 (26 GAUGE MINIMUM). SEAL ALL LONGITUDINAL AND TRAVERSE JOINTS AS REQUIRED BY CURRENT SMACNA AND ENERGY CODE STANDARDS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

(CENTECH	HVAC LEGEND
<u> </u>	RIGID RECTANGULAR DUCT
<u> 8"ø</u>	RIGID ROUND DUCT
۶ -	FLEXIBLE DUCT
	90° ELBOW WITH TURNING VANES
	FLEXIBLE CONNECTION
/ J _{VD}	MANUAL VOLUME DAMPER
	LAY-IN SUPPLY DIFFUSER
Ø	LAY-IN RETURN/EXHAUST GRILLE
	ROOF CAP, INTAKE
	ROOF CAP, EXHAUST
8	CEILING EXHAUST FAN
$\overline{\bigcirc}$	WALL T-STAT/SENSOR
B 200	AIR DISTRIBUTION MARK "B", 200 CFM
$\overline{\bigcirc}$	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







GOLDSBORO, NC 27532
TEL: (919) 778–9064

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D. HAM D. HILL

CARO

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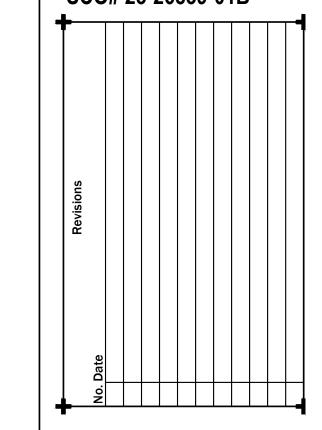
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New NC Forest Service County Office for Jones County

NC HIGHWAY 58 S JONES COUNTY, NC 28585

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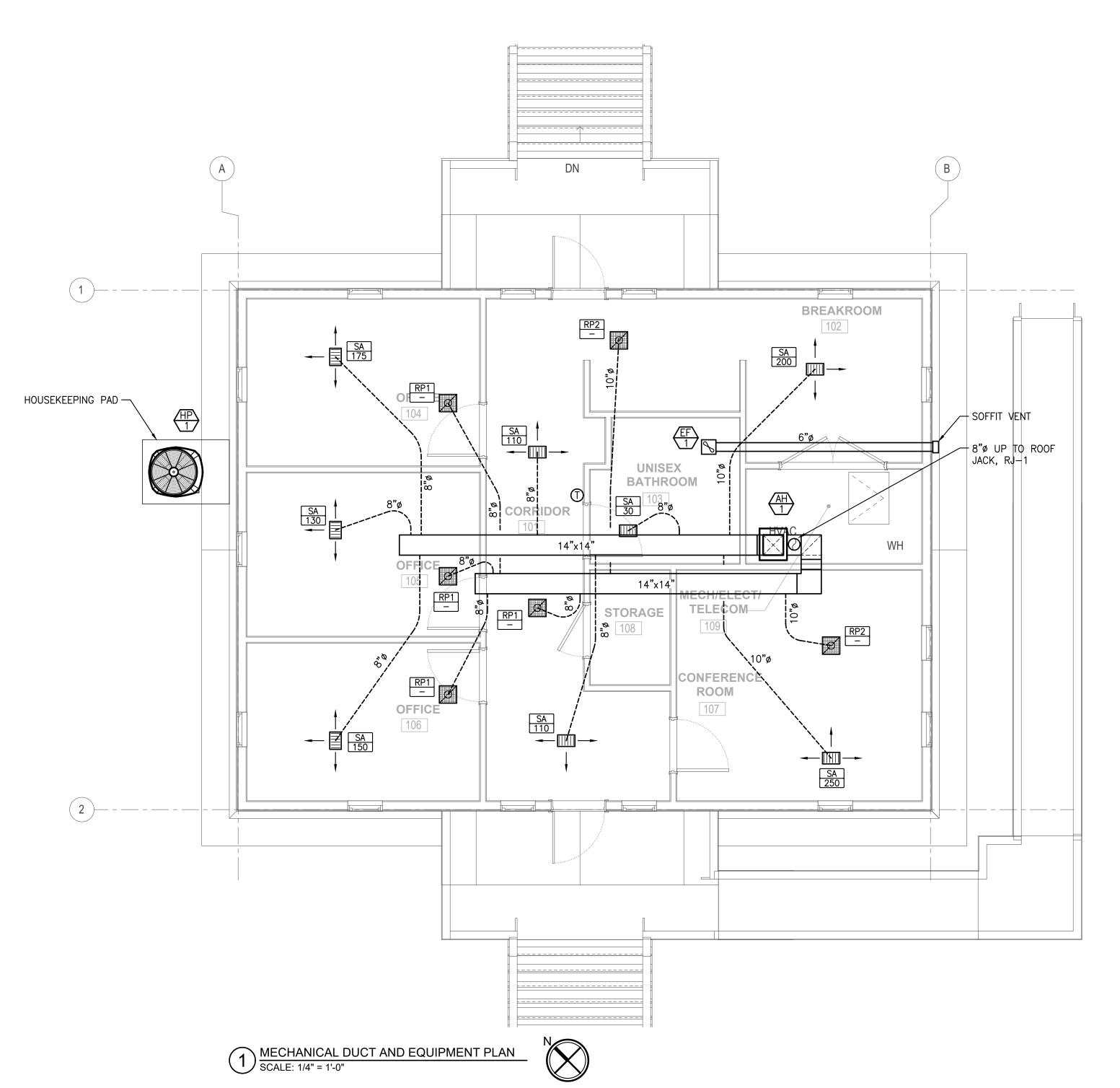
MECHANICAL
NOTES & LEGEND

10/31/25

Checked

Sheet Number

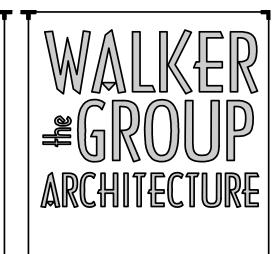
1 Of 4
Drawing Number



GENERAL NOTE:

 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".

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	0.993
Storage 108	1	13	35	0.06	0	5.0	0.8	3	2	0.909
		1200							130	0.90
							OA Requ	red for	unit	14
							OA CFM			150





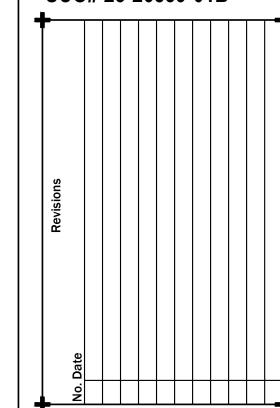
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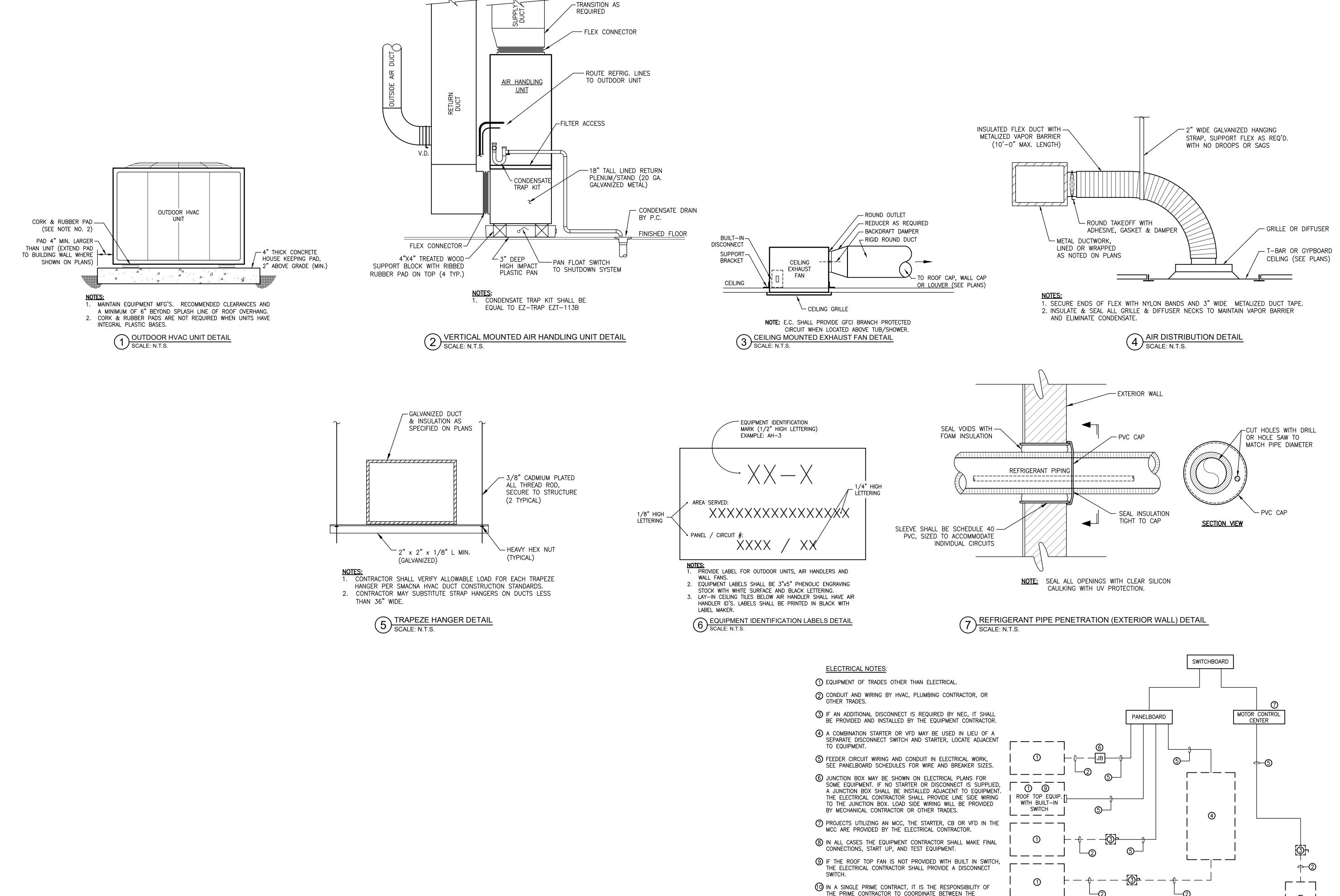
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Drawing Title

MECHANICAL PLANS

Sheet Number
2 Of 4

M-101



ELECTRICAL AND THE OTHER TRADES.

8 ELECTRICAL COORDINATION SCALE: N.T.S.

P.O. BOX 11527 NC LIC #: C-1132 GOLDSBORO, NC 27532

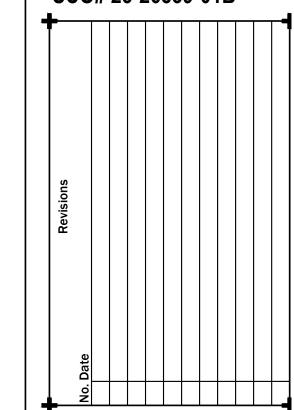
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MECHANICAL DETAILS

10/31/25

Checked

Sheet Number 3 **Of** 4

1

CE	Tech				Н	EAT F	PUM	1P (IN	NDO:	OR UNIT) S	SCHEDU	LE					
MARK	SUPPLY FAN				NOMINAL COOLING CAPACITY			AUX. HEAT	VOLT /DU			MOCD	DEE MANE	DEE MODEL	WEIGHT		
	SA CFM	OA CFM	EXT SP	MTR HP	EAT(DB/WB)	TOT C	CAP	SEN	CAP	@ 208V	VOLI/PH	FLA	MCA	MUCP	KEF. MANF.	REF. MODEL	WEIGHT
AH-1	1200	150	0.5"	1/2	76°/65°	35.4 N	ивн	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

- STATE OF THE FOLLOWING OPTIONS AND ACCESSORIES:

- TXV MATCHING CONDENSER CAPACITY
- 7-DAY PROGRAMMABLE THERMOSTAT WITH LOCKOUT FUNCTION
- ECM FAN MOTORS

(CE	NTech		HEAT	PUM	1P (O	UTDC	OR L	JNIT) \$	SCHE	DULE		
MARK	EAT(DB)	NOM CAP	VOLT/PH	FLA	MCA	МОСР	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

- SPECIALTIES FOR LONG-LINE APPLICATION
 EXTREME CONDITION MOUNT KIT
 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											CONTROL
FF-1	CFILING	70	0.25"	17	120/1ø	GREENHECK	SP-A90	0.4	12 LBS	1.2	Α

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.

(CE	ROOF CAP SCHEDULE											
MARK	MARK USAGE CFM RANGE SP DROP SIZE MATERIAL REF. MANF. REF. MODEL NOTES											
R.I_1	INITAKE	0-220	0.06"	6"∨0"	STEEL	CREENHECK	R.I_6Y9	1				

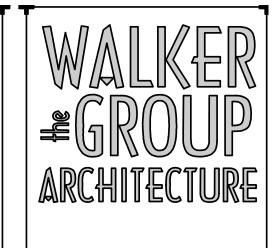
NOTES:
1. PROVIDE WITH BIRDSCREEN & FLASHING FLANGE.

ENGINEERING		MECHANICAL	PIPING INSULATION T	ABLE		
SERVICE	LOCATION	MATERIAL TYPE	JACKET TYPE	PIPE SIZE	THICKNESS	REMARKS
	BUILDING ENVELOPE	CLOSED CELL ELASTOMERIC	I NICINIE		3/4"	SEAL ALL JOINTS & SEAMS TO PREVENT CONDENSATION
REFRIGERATION SUCTION PIPING	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 DIDING	BUILDING ENVELOPE	CLOSED CELL ELASTOMERIC	NONE	ALL	3/4"	-
A/C CONDENSATE PIPING	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 D	UCT INSULATION TABL	.E		
SERVICE	LOCATION	MATERIAL TYPE	JACKET TYPE	R-VALUE	THICKNESS	REMARKS
	BUILDING ENVELOPE	FIBERGLASS BLANKET	FSK	R-6.0	2.2"	R-VALUE BASED ON NOMINAL RATING AS INSTALLED
RIGID METAL SUPPLY DUCT	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
	CONDITIONED SPACE	(NONE REQUIRED)				
RIGID METAL RETURN 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
EXHAUST DUCT	ALL	(NONE REQUIRED)				
FLEXIBLE SUPPLY DUCT	BUILDING ENVELOPE	FIBERGLASS	REINFORCED METALIZED PROTECTIVE BARRIER	R-6.0	2"	
FLEXIBLE SUPPLY DUCT	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"	
ILLAIDLE RETURN DUCT	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	MANF.	MODEL	REMARKS	
SA	CEILING REGISTER WITH ADJUSTABLE MULTI-SHUTTER DAMPER	SURF	12"x8"	-	3-WAY	ALUM.	WHITE	H&C	683	-	
RP1	RETURN PERFORATED FACE		12"X12"		_	ALUM.	WHITE			BLACK BACK PAN	
RP2	RETURN PERFORATED FACE	SURF	15"x15"	12"x12"x10"ø	_	ALUM.	WHITE			BLACK BACK PAN	
									·		





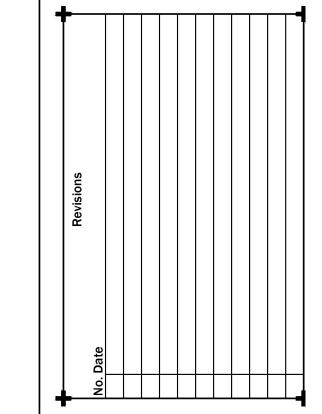
PROJECT NO. PROJECT MGR. DRAWN BY 224007 D. HAM D. HILL



New NC Forest Service County Office for Jones County

NC HIGHWAY 58 S **JONES COUNTY, NC** 28585

ISSUED FOR CONSTRUCTION SCO# 23-26839-01B



Date 10/31/25

2318.NCFS

Scale
AS NOTED

Drawing Title MECHANICAL SCHEDULES

	d ELECTRIC	CAL 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	_	_
Z	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
Ф	RECEPTACLE	HUBBELL HBL5352x	HBL5362C2x FOR CONTROLLED RECEPTACLE
\bigcup_{WR}	WEATHER RESISTANT	HUBBELL HBL5362xWR	_
∯ _{GFI}	GROUND FAULT RECEPTACLE	HUBBELL GFRST20x	SELF TESTING PER UL 943
₩R GFI	GROUND FAULT, WEATHER RESIST RECEPT.	HUBBELL GFTWRST20x W/'IN USE" COVER	SELF TESTING PER UL 943
∇	DATA/PHONE OUTLET	_	DOUBLE GANG UNO

- 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
- 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	Œ.	CENTERLINE OF DEVICE
E.C.	ELECTRICAL CONTRACTOR	BOD	BOTTOM OF DEVICE
AFF	ABOVE FINISHED FLOOR	TOD	TOP OF DEVICE

ELECTRICAL ENERGY SUMMARY (EnTech **ELECTRICAL SYSTEMS AND EQUIPMENT:** METHOD OF COMPLIANCE: NC ENERGY CODE 2018: ☐ PERFORMANCE (C101.2 EXEPT #2) □ PRESCRIPTIVE

ASHRAE 90.1 2016: ☐ PRESCRIPTIVE ☐ PERFORMANCE

LIGHTING SCHEDULE

LAMP TYPE REQUIRED IN FIXTURE SEE LIGHTING SCHEDULE ON PLANS NUMBER OF LAMPS IN FIXTURE SCHEDULE ON PLANS BALLAST TYPE USED IN THE FIXTURE E LIGHTING SCHEDULE ON PLANS NUMBER OF BALLASTS IN THE FIXTURE EE LIGHTING SCHEDULE ON PLANS TOTAL WATTAGE PER FIXTURE SCHEDULE ON PLANS

☐ SPACE BY SPACE TOTAL EXTERIOR WATTAGE SPEC. VS ALLOWED <u>152 WATTS SPEC. VS. 806 WATTS ALLOWED</u>

TOTAL INTERIOR WATTAGE SPEC. VS ALLOWED 798 WATTS SPEC. VS 1495 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

														E SE	
C EnTec	<u>h</u>		LIGHT FIX	TURE SCHEE	ULE							ALCY OF CHILL	Ski (VI)		
MARK	DESCRIPTION	REF MANF	MODEL NUMBER FOR FIXTURE REFERENCE QUALITY AND APPEARANCE	SOURCE	LED LUMENS	COLOR TEMP	CRI	FIXTURE INPUT WATTS	VOLTS	/N	Rel , &	Stilly Office Of	8 / No / S	MONTOS ON	REMARKS
Α	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	•	• •				
В	2x4 LED FLAT PANEL (SURFACE KIT)	LITHONIA	CPX 2X4 AL08 80CRI SWW7 SWL MVOLT 2X4SMKSH	LED	5000	40K	80	35	120	•	•				
С	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. FOUAL 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
- SUBMITTALS FROM THE CONTRACTOR SHALL INCLUDE ALL FACTORY CONSTRUCTION DRAWINGS, FACTORY ASSEMBLY DRAWINGS, AND INSTALLATION DRAWINGS FOR EQUIPMENT (I.E. LUMINAIRES, ETC.). PROJECT CONSTRUCTION SCHEDULE SHALL ALLOW SUFFICIENT TIME FOR DESIGN TEAM REVIEW AND APPROVAL BEFORE ORDERING EQUIPMENT. THE CONTRACTOR SHALL MAINTAIN THE FACTORY DRAWING PACKAGES ON THE CONSTRUCTION SITE FOR ELECTRICAL INSPECTOR USE AND FOR VERIFICATION OF INSTALLATION
- 6. 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
- 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.
- 8. PROTECT ALL NEW MATERIALS FROM THE WEATHER IN STORAGE TRAILERS OR PROVIDE SUITABLE COVERING.
- 9. 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.
- 10. 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.
- 11. 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.
- 12. COLOR CODING OF WIRE SHALL BE AS FOLLOWS:

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

- 13. 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.
- 14. 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.

- 15. 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
- 16. 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.
- 17. 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.
- 18. 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 "-".
- 19. 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.
- 20. 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.
- 21. 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.
- 22. 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.
- 23. 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).
- 24. 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.



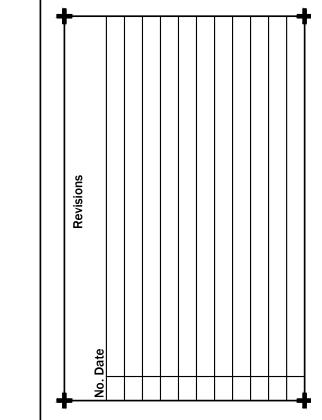




New NC Forest Service County Office for Jones County

NC HIGHWAY 58 S JONES COUNTY, NO

ISSUED FOR CONSTRUCTION SCO# 23-26839-01B



Project Number 2318.NCFS

Drawn

AS NOTED

Drawing Title

ELECTRICA

10/31/25

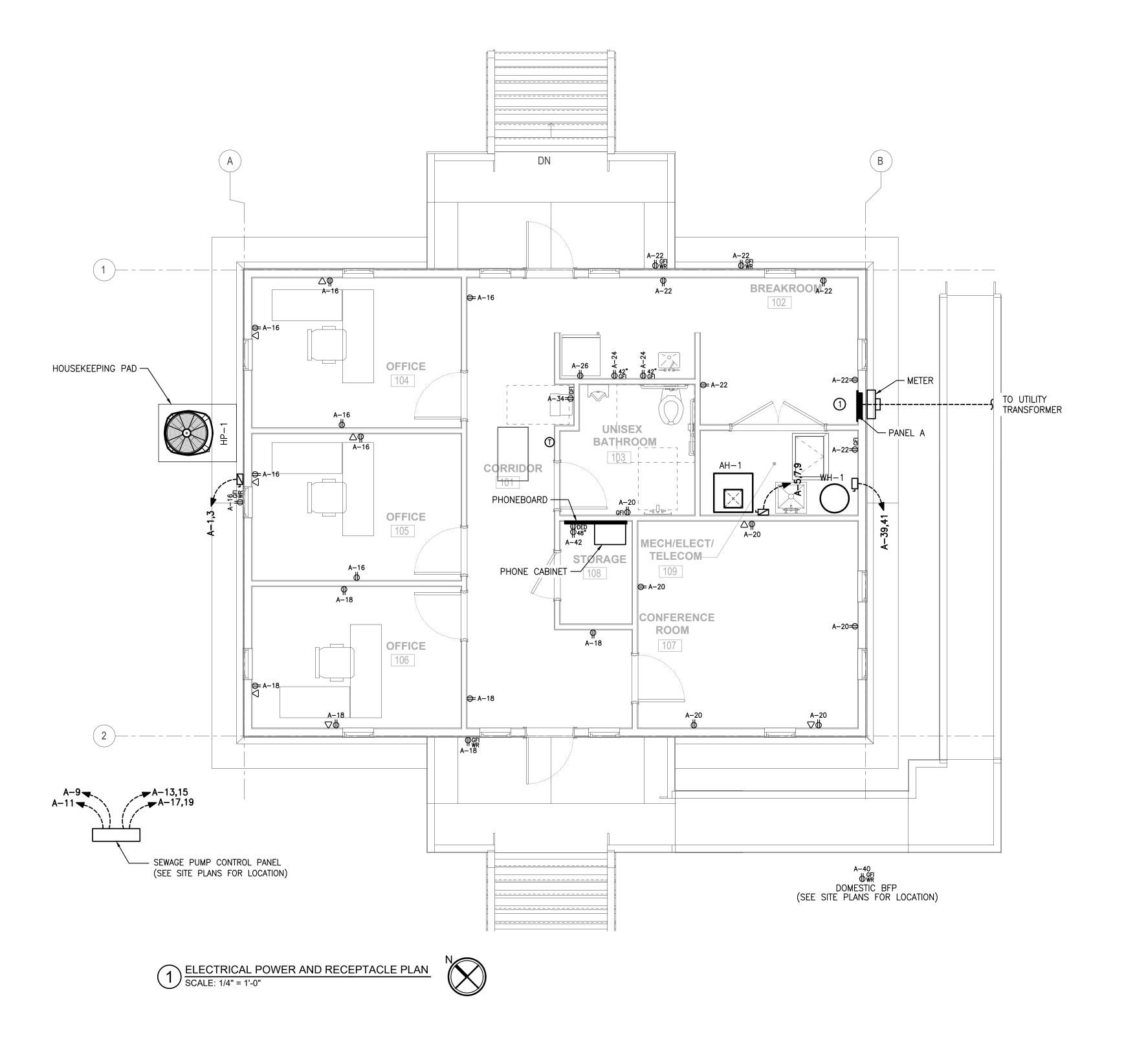
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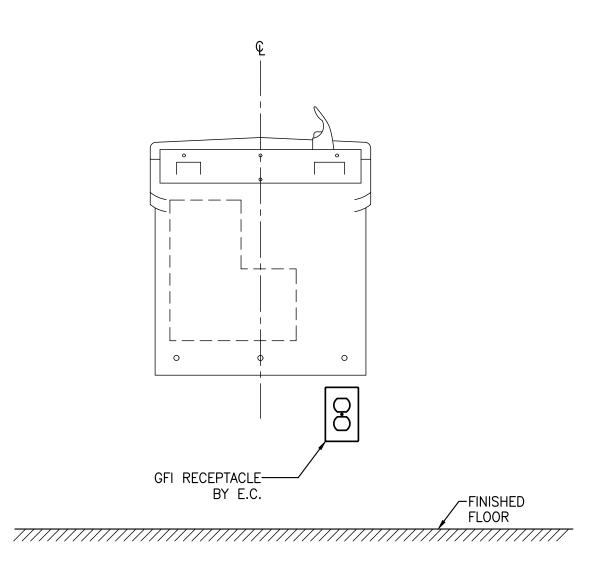
Sheet Number

1 **O**f 5 Drawing Number

INSTALLATION KEYED NOTES " # ":

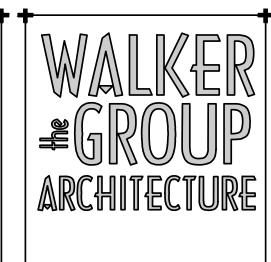
PROVIDE (2) 1" CONDUITS STUBBED OUT BEYOND HANDICAP RAMP FOR FUTURE POLE BARN AND SHED. CAP CONDUITS UNDERGROUND.





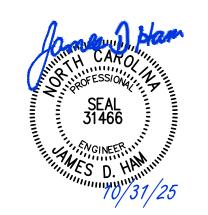
NOTE: COORDINATE SPECIFIC RECEPTACLE MOUNTING LOCATION WITH P.C. PER SHOP DRAWING INSTALLATION INSTRUCTIONS.

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





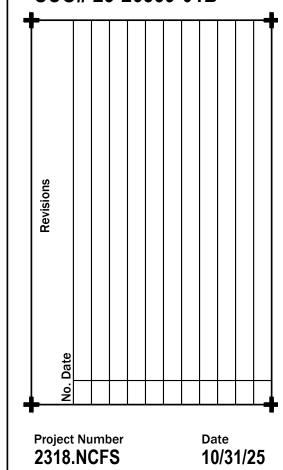
PROJECT NO. PROJECT MGR. DRAWN BY D. HILL



New NC Forest Service County Office for Jones County

NC HIGHWAY 58 S JONES COUNTY, NC 28585

ISSUED FOR CONSTRUCTION SCO# 23-26839-01B



Checked

2318.NCFS Drawn

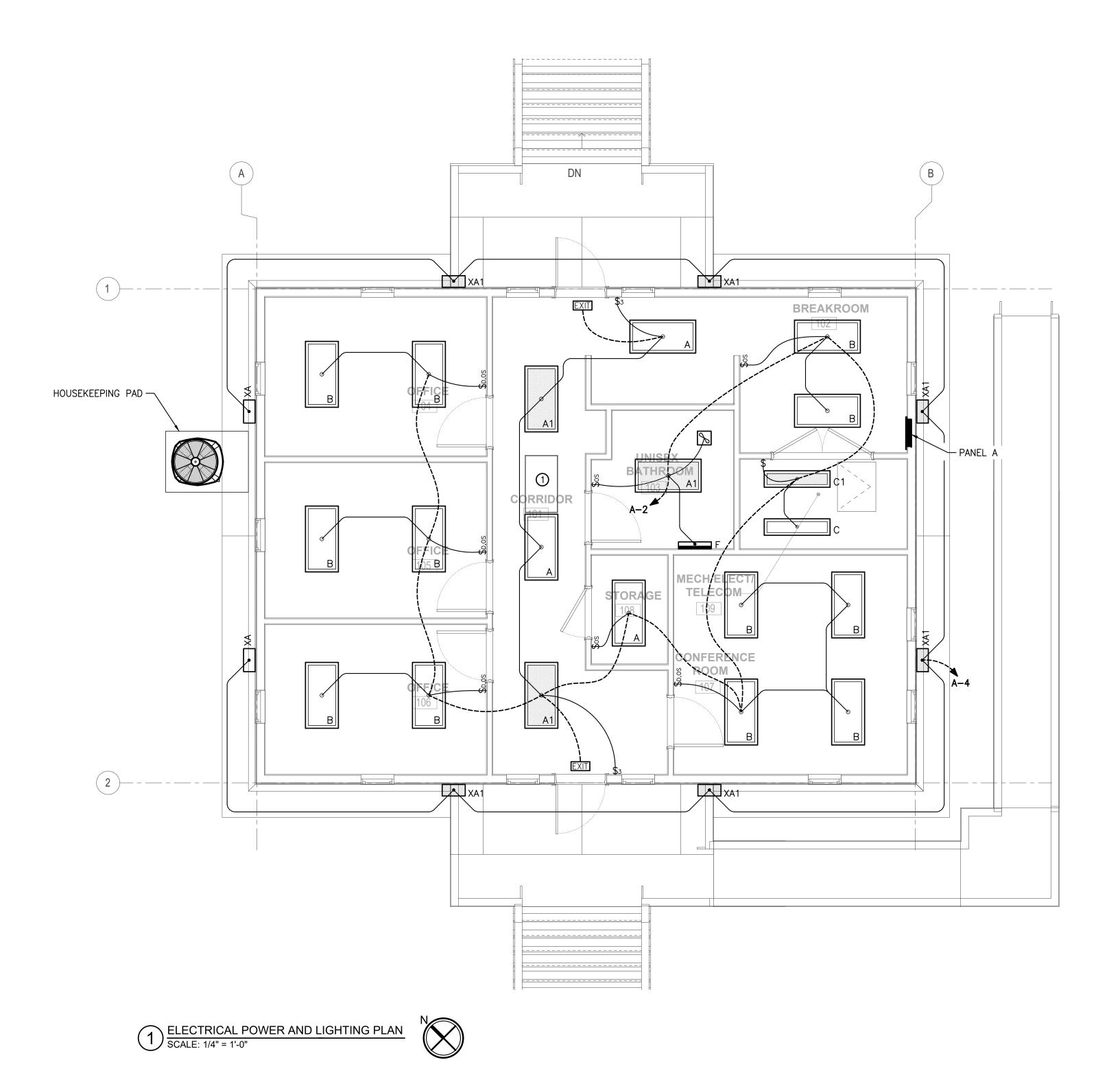
AS NOTED Drawing Title

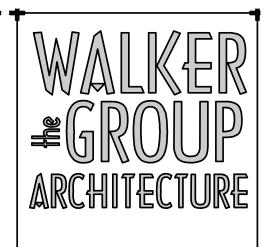
ELECTRICAL PLANS

Sheet Number 2 **O**f 5

INSTALLATION KEYED NOTES " (#) ":

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







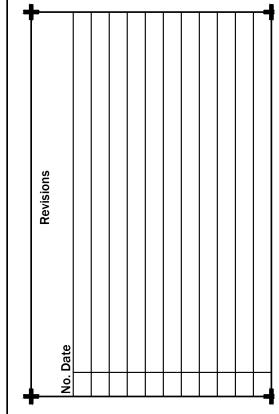
PROJECT NO. PROJECT MGR. DRAWN BY 224007 D. HAM D. HILL



New NC Forest Service County Office for Jones County

NC HIGHWAY 58 S JONES COUNTY, NC 28585

ISSUED FOR CONSTRUCTION SCO# 23-26839-01B



Date 10/31/25

Project Number 2318.NCFS

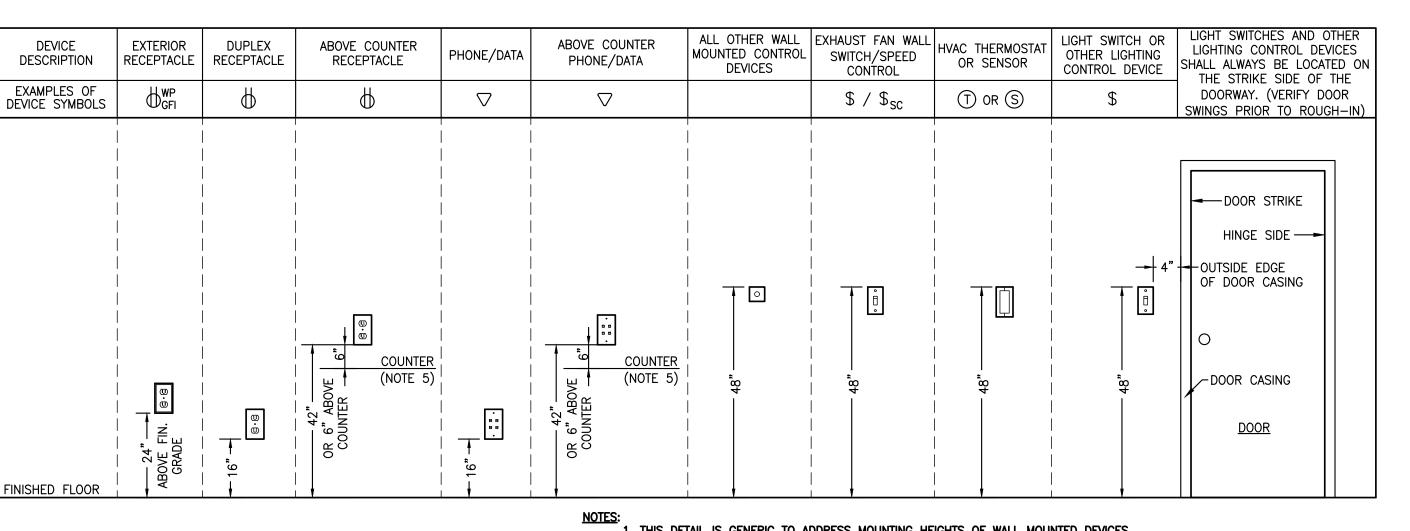
Scale

Scale
AS NOTED
Drawing Title

ELECTRICAL PLANS

Sheet Numb

F-102



4" SQUARE DEVICE BOX —

#773 PLASTER RING

RACO #213 BACK BOX W/

LABEL OUTLET PANEL #,

ROOM #, AND CIRCUIT#

BOX DEVICE COVER WITH -

STAINLESS STEEL -

DEVICE TRIM PLATE

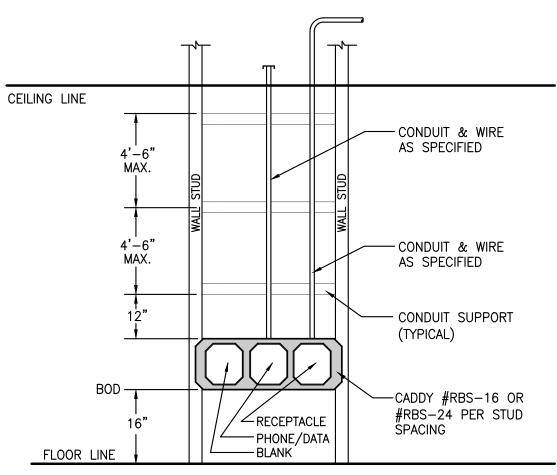
RAISED RING OF PROPER

DEPTH AND TYPE FOR WALL CONSTRUCTION. RING TO

FINISH FLUSH WITH WALL

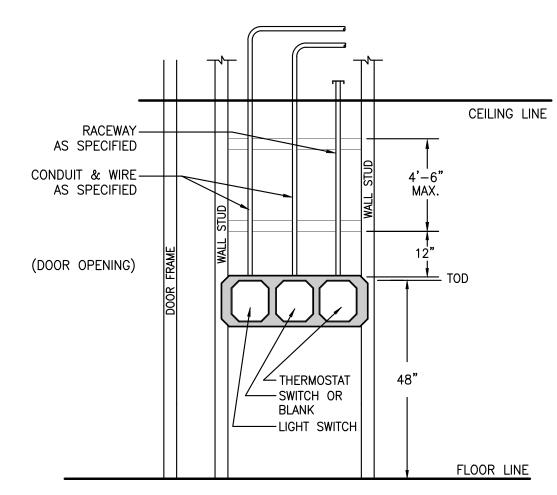
1. THIS DETAIL IS GENERIC TO ADDRESS MOUNTING HEIGHTS OF WALL MOUNTED DEVICES. 2. ALL DEVICES MAY NOT APPLY TO THIS PROJECT. 3. ALL MOUNTING HEIGHTS ARE TYPICAL UNLESS OTHERWISE NOTED ON PLANS. 4. REFERENCE ELECTRICAL LEGEND FOR MORE SPECIFIC DEVICES TYPES. 5. VERIFY COUNTER AND BACKSPLASH HEIGHTS PRIOR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

RECEPTACLE GROUNDING DIAGRAM SCALE: N.T.S.



NOTES: 1. UTILIZE BRACKET WHEN INSTALLING MORE THAN ONE BOX.

2. SEE PLANS FOR LOCATIONS & SPECIFIC QUANTITIES.



NOTES: 1. UTILIZE BRACKET WHEN INSTALLING MORE THAN ONE BOX.

2. SEE PLANS FOR LOCATIONS & SPECIFIC QUANTITIES.

RISER DIAGRAM & GROUNDING SCHEMATIC

_ MIN. #3/0 BARE

COPPER, UNO.

BURY 30" BELOW

STRANDED

GRADE.

— TO SERVICE EQUIPMENT AS SHOWN ON POWER

TYPICAL MADE GROUNDING ELECTRODE

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.

- CADWELD, THERMOWELD OR EQUIVALENT CONNECTION (TYPICAL)

10' X 3/4" (THREE REQUIRED)

-COPPERCLAD OR COPPERWELD STEEL ROD,

D. HAM

P.O. BOX 11527 NC LIC #: C-1132

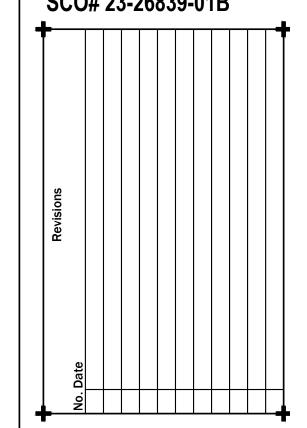
GOLDSBORO, NC 27532

TEL: **(919)** 778-9064

Office for Jones County

NC HIGHWAY 58 S JONES COUNTY, NC

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2318.NCFS

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Drawing Title

ELECTRICAL DETAILS

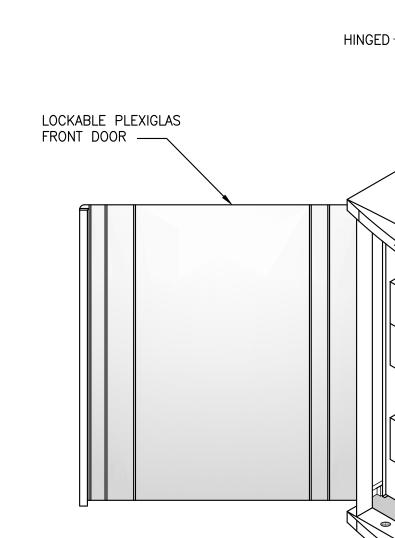
Sheet Number

Drawing Number

4' x 8' x 3/4" TELEPHONÉ BOARD FIRE RETARDANT TYPICAL OFFICE - 120V RECEPTACLE WITH UL LABEL ADJACENT TO PHONE PANEL 1"C. WITH -PULL BOX -1/4" x 2" x 12" COPPER 4" x 4" x 2" ¬ UL BOX GROUND BUSBAR 24" AFF | @ @ | 16" AFF <u>U.N.O.</u> →TO ELECTRICAL SERVICE GROUND FINISHED FLOOR ////////////// EXTEND TO UTILITY TERMINATION STUB UP 6" & TERMINATE WITH BUSHING BOX, COORDINATE LOCATION WITH TELEPHONE COMPANY —

TYPICAL DEVICE MOUNTING SCALE: N.T.S.

PAINTING, OTHERWISE USE FIRE RATED INTUMESCENT PAINT. INSTALL



SCALE: N.T.S.

①

1. CABINET SHALL BE 24" (12U) HIGH AND 18" DEEP.

7.4. ADJUSTABLE RACK ANGLES FOR 19" EQUIPMENT.

PATCH PANEL-

CABINET, PATCH PANELS, AND WIRE MANAGEMENT SHALL BE PROVIDED BY E.C. PROVIDE PATCH PANEL QUANTITY TO MATCH DATA CABLE QUANTITY PLUS 25%, MINIMUM.

4. SWITCHES & POWER SUPPLIES SHALL BE PROVIDED BY OWNER. 5. LABEL CABLES AND PATCH PANELS FRONT & REAR WITH OWNER'S STANDARD LABELING. PROVIDE LABELING, TESTING AND MAPPING OF ALL CABLES. SUBMIT REPORT TO OWNER. 7. CABINET SHALL BE PROVIDED WITH THE FOLLOWING:

7.1. HEAVY DUTY, FIELD REVERSIBLE DOUBLE HINGES FOR ACCESS FROM EITHER SIDE. 7.2. FULLY WELDED, 16GA STEEL CONSTRUCTION. 7.3. GROUNDING AND BONDING PROVISIONS.

WALL MOUNT CABINET SCALE: N.T.S.

7.5. BLACK POWDER COAT.



- 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.

BRANCH CIRCUIT

SINGLE LEADS

#12 AWG SOLID COPPER GREEN

INSULATED JUMPER TO DEVICE

GROUNDING SCREW

- EMT COMPRESSION FITTING

MAKE CIRCUIT JOINT WITH

CONNECT TO DEVICE WITH

TWIST-ON CONNECTOR AND

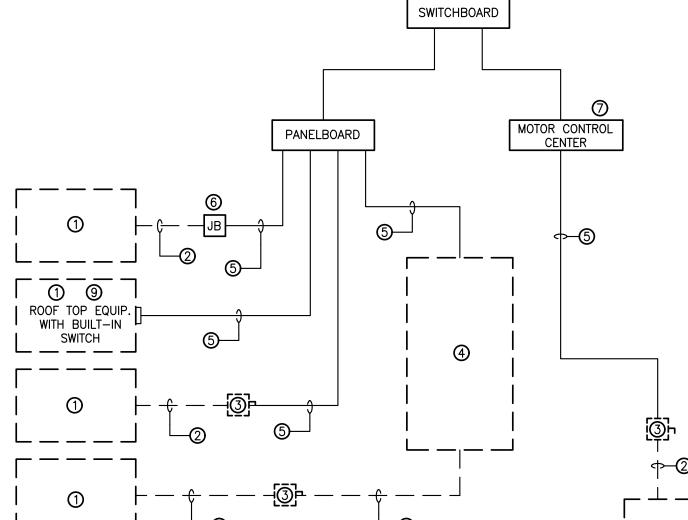
1 #12 AWG SOLID COPPER

GREEN INSULATED JUMPER

TO BOX BONDING SCREW

CONDUIT

- 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.
- 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
- (10) IN A SINGLE PRIME CONTRACT, IT IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR TO COORDINATE BETWEEN THE



SECTION A-A

MATERIAL LIST

TOP VIEW (COVER REMOVED)

1 GROUND ROD 4 POLYMER CONCRETE FIBERGLASS 2 GROUND CLAMP

(3) GROUNDING CONDUCTOR

GROUND ROD TEST WELL

#1/0 COPPER

SCALE: N.T.S.

DEVICE MOUNTING HEIGHTS
SCALE: N.T.S.

4"x4"x2 1/2" SQUARE DEVICE BOX -

RACO #233 BACK BOX W/ #773

BOX DEVICE COVER WITH

RAISED RING OF PROPER

FINISH FLUSH WITH WALL —

DEPTH AND TYPE FOR WALL

DATA JACK -

(2) PORT FACEPLATE —

CONSTRUCTION. RING SHALL

PLASTÉR "RING

— CAT 6 PLENUM RATED CABLES

ON PLANS).

(ROOM # - OUTLET #)

DUPLEX DATA OUTLET SCALE: N.T.S.

(2 DATA UNLESS NOTED OTHERWISE

— 1"C MINIMUM ROUTED TO ATTIC

- LABEL DATA CABLES

REINFORCED BOX 5 COVER FOR ABOVE BOX

6 GRAVEL OR CRUSHED STONE

(8) SCALE: N.T.S.

L(2) 4" EMPTY CONDUIT

NOTES: 1. PROVIDE QUANTITY OF PLYWOOD SHEETS TO COVER WALLS AS SHOWN ON

2. IF PROVIDING FIRE RETARDANT PLYWOOD, SHEETING DOES NOT REQUIRE SHEETING SUCH THAT FIRE LABEL FACES OUT.

TELEPHONE SYSTEM DIAGRAM
SCALE: N.T.S.

(8) IN ALL CASES THE EQUIPMENT CONTRACTOR SHALL MAKE FINAL

ELECTRICAL AND THE OTHER TRADES.

ELECTRICAL COORDINATION

New NC Forest Service County

SCO# 23-26839-01B

Project Number

Drawn

AS NOTED

4 **O**f 5

		SERVICE LOAD	SUMMARY		
OCCUPANCY TYPI	E - 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
SEWAGE PUMPS (NON-CONCURRENT)	1.8	430	100%		1.8
FUTURE POLE BARN AND SHED	10.0	422.13	100%		10.0
SUBTOTAL CONTINUOUS LOADS		1		230.42 A 1	29.3 x 125%
NON CONTINUOUS LOAD DESCRIPTION				CONT. LOAD TOTAL	36.6
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 CONTINUOU	S LOADS				45.0
FAULT CURRENT @ TRANSFORMER	SECONDARY TERMI	NALS	SEI	RVICE LOAD	
$\frac{45 \text{ KVA } (X-\text{FORMER})}{0.208 \times \sqrt{3} \times 1.5\%Z} =$	8,300 AMPS	5	45 KVA 0.208 X √3	=	= 125 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).

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

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

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

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

COORDINATE HVAC BREAKERS AND WIRE SIZES WITH HVAC SUBMITTALS

SURGE PROTECTION NOTES:

- 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.

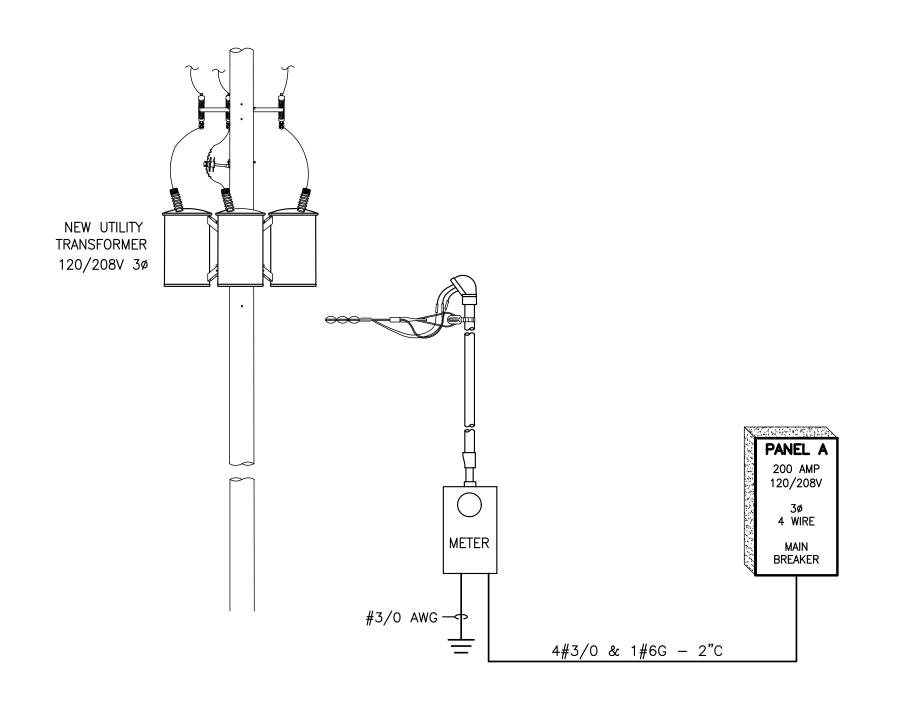
 SHORT CIRCUIT CURRENT RATING GREATER THAN PANELBOARD

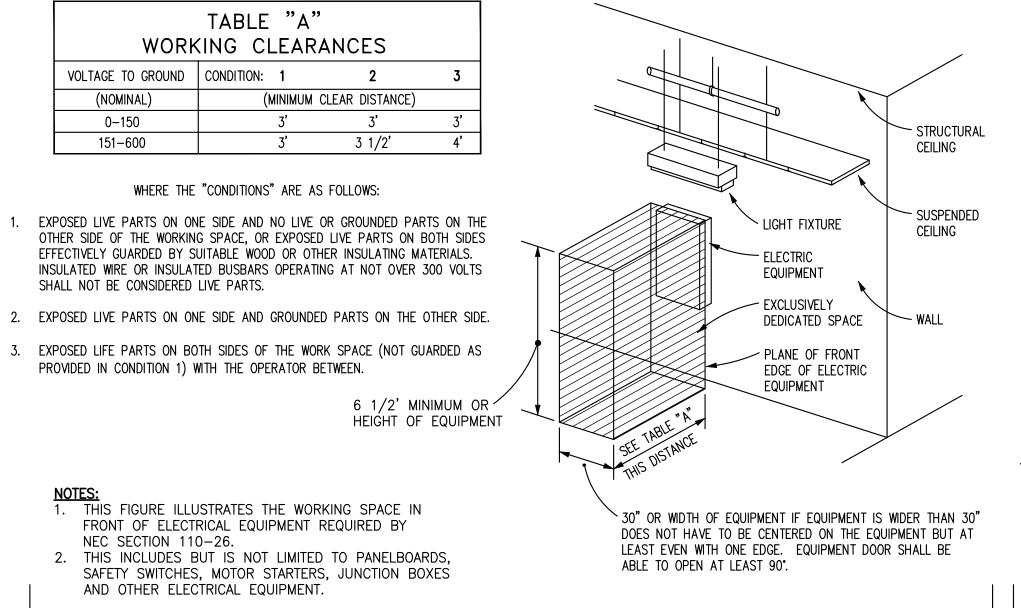
 INOMINAL RATING OF 20KA.

_	CONNE LOAD		DEMAND FACTOR	DEMAND LOAD (KVA)
INDOOR LIGHTING OUTDOOR LIGHTING RECEPTACLES (1ST 10 I RECEPTACLES (ABV 10 I HVAC HVAC (NON-COINCIDENT/ WATER HEATERS DEDICATED RECP/EQUIP	= KVA)= KVA)= = AL) =	0.8 0.1 5.3 	100% 100% 100% 50% 100% 0% 100%	= 0.8 = 0.1 = 5.3 = = 8.1 = = 4.6 = 3.2
TOTALS:	=	22.2 KVA	\	= 22.2 k

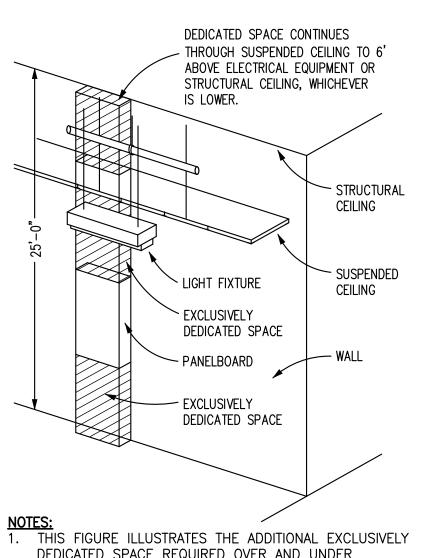
MINIMUM PANEL SIZE: 22 KVA X 125% = 28 KVA (78 AMPS)

GROSS PHASE TOTALS (AMPS) A = 75 B = 84 C = 69





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.

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.

<u>PANELBOARDS</u> -

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

PROJECT NO PROJECT MGR DRAWN BY

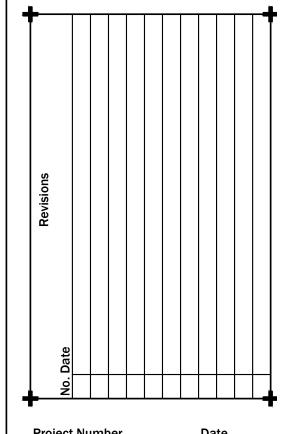
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ELECTRICAL SCHEDULES

Sheet Number 5 Of 5