NCDOT- CURRITUCK COUNTY REST AREA

SCO# : 26-31654-01A

5330 CARATOKE HWY
POPULAR BRANCH, NORTH CAROLINA 27965

OWNER

State of North Carolina
Department of Transportation
1321 Mail Service Center
Raleigh, NC 27699

DESIGN PROFESSIONALS

ARCHITECT
W. S. Architects, PA
3305 Durham Dr.
Suite 109
Raleigh, NC 27603
(919) 779-9797
Corp. Cert. 549

GINGER S. SUMMER REGISTERED ARCHITECT 11075 NORTH CAROLINA RALEIGH, NC

STRUCTURAL
Mark R. Blankinship
120 St. Mary's Street
Raleigh, NC 27605
(919)-833-0495
Firm Lic. No. 15887

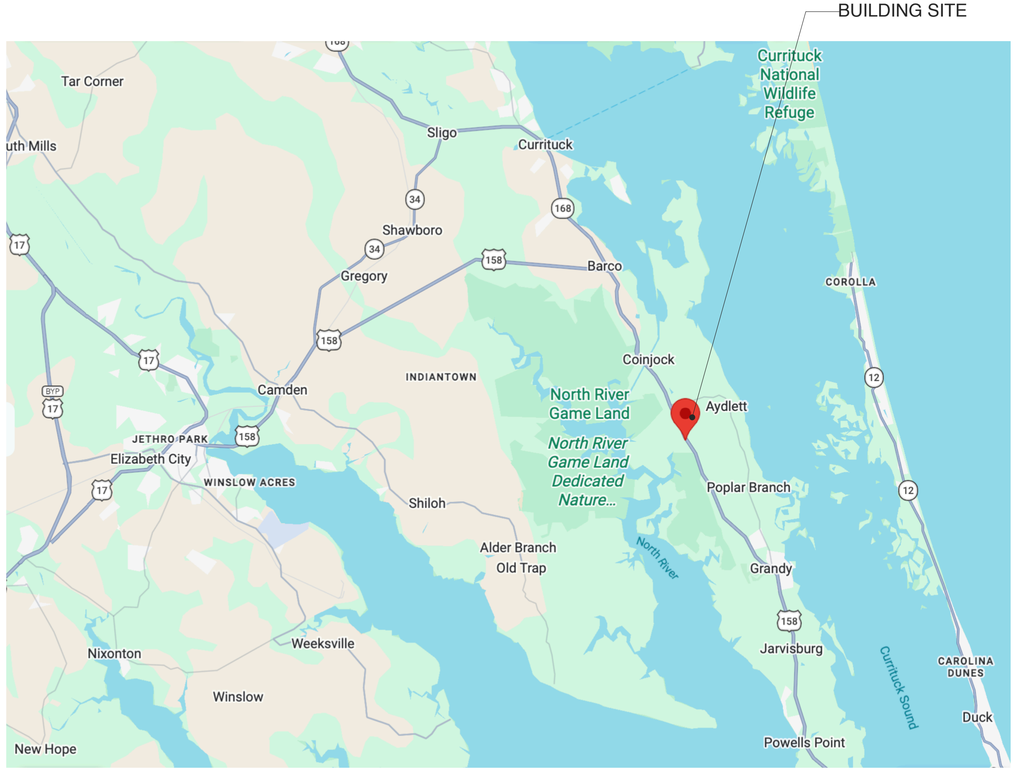
NORTH CAROLINA PROFESSIONAL SEAL PE046123 ENGINEER MARK R. BLANKINSHIP

PLUMB. MECH. & ELECT.
Burke Design Group
3305 Durham Dr.
Suite 109
Raleigh, NC 27603
(919) 771-1916
Corp. Lic. No. C-2652

NORTH CAROLINA PROFESSIONAL SEAL 22038 ENGINEER BENJAMIN BURKE

DRAWING INDEX

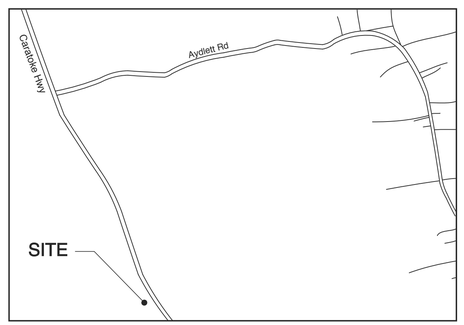
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OVERALL VICINITY
SCALE: NTS

SCOPE OF WORK:

RENOVATION & ADDITION TO EXIST. REST AREA.



1 ENLARGED LOCATION
SCALE: NTS

WEEKS SUMMER ARCHITECTS

W. S. ARCHITECTS, PA
3305-109 Durham Drive
Raleigh, North Carolina 27603
919.779.9797
www.wsarchitectspa.com

W. S. ARCHITECTS, PA REGISTERED ARCHITECTURAL CORPORATION CERT. NO. 50549 NORTH CAROLINA RALEIGH, NC

GINGER S. SUMMER REGISTERED ARCHITECT 11075 NORTH CAROLINA RALEIGH, NC
DocuSigned by: Ginger S. Summer
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10/27/2026

BID DOCUMENTS
10.27.26

SC0# 26-31654-01A

PROJECT TITLE
CURRITUCK COUNTY REST AREA
5330 CARATOKE HWY US 158
POPULAR BRANCH, NORTH CAROLINA

PROJECT NO.
2404A

DRAWING TITLE
COVER SHEET

SHEET 1 OF 15

G0.0

PLOT DATE 10/27/26
REVISION ---

This original sheet is 24" x 36"; other dimensions indicate it has been altered.

CURRITUCK COUNTY REST AREA
5330 CARATOKE HWY
POPULAR BRANCH, NORTH CAROLINA 27965

SCOPE OF WORK:

RENOVATION & ADDITION TO EXIST. REST AREA

NC DEPT. OF INSURANCE 2018 APPENDIX B

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 & 2-FAMILY DWELLINGS AND TOWNHOUSES)
(REPRODUCE THE FOLLOWING DATAON THE BUILDING PLANS SHEET 1 OR 2)

NC

Name Of Project:	CURRITUCK REST AREA & VISTOR CENTER RENOVATION
Address:	5330 CARATOKE HWY US 158 POPULAR BRANCH, NORTH CAROLINA
Zip Code:	27965
Owner Or Authorized Agent:	W. S. Architects, PA — Phone: (919) 779-9797 — E-mail ginger@wsarchitectspa.com
Owned By:	[ ] City/County [ ] Private [X] State
Code Enforcement Jurisdiction:	[ ] Town [ ] County [X] State

LEAD DESIGN PROFESSIONAL: W. S. ARCHITECTS, PA

Designer	FIRM	NAME	LIC. #	TELEPHONE	E-MAIL
Architectural:	W. S. Architects	Ginger S. Summer	11075	(919) 779-9797	ginger@wsarchitectspa.com
Civil	---	---	---	---	---
Electrical:	Burke Design Group	Benjamin E. Burke	22038	(919) 771-1916	benburke@nc.rr.com
Fire Alarm:	---	---	---	---	---
Plumbing:	Burke Design Group	Benjamin E. Burke	22038	(919) 771-1916	benburke@nc.rr.com
Mechanical:	Burke Design Group	Benjamin E. Burke	22038	(919) 771-1916	benburke@nc.rr.com
Sprinkler-Standpipe:	---	---	---	---	---
Structural:	Lysaght & Associates	Mark R. Blankinship	---	(919) 833-0495	markb@lysaghtassociates.com
Retaining Walls >5' High:	---	---	---	---	---
Other:	---	---	---	---	---

2018 NC BUILDING CODE: [ ] New Building [ ] Shell/Core [ ] 1st Time Interior Completions
[X] Addition [ ] Phased Construction - Shell Core
2018 NC **EXISTING BUILDING CODE:** [ ] Prescriptive [ ] Alteration Level I [ ] Historic Property
[ ] Repair [X] Alteration Level II [ ] Change of Use
[ ] Chapter 14 [ ] Alteration Level III

CONSTRUCTED: (date) 1990 CURRENT OCCUPANCY(S) (Ch. 3): B
RENOVATED: (date) _____ PROPOSED OCCUPANCY(S) (Ch. 3): B
OCCUPANCY CATEGORY (Table 1604.5): Current: II Proposed:II

BASIC BUILDING DATA

CONSTRUCTION TYPE: [ ] I-A [ ] II-A [ ] III-A [ ] IV [ ] V-A
[ ] I-B [ ] II-B [ ] III-B [X] V-B
SPRINKLERS: [X] NO [ ] PARTIAL [ ] NFPA 13 [ ] NFPA 13R [ ] NFPA 13D
STANDPIPES: [X] NO CLASS [ ] [ ] II [ ] III [ ] WET [ ] DRY
PRIMARY FIRE DISTRICT: [X] NO [ ] YES **FLOOD HAZARD AREA:** [X] NO [ ] YES
SPECIAL INSPECTIONS REQUIRED: [X] NO [ ] YES

GROSS BUILDING AREA

	EXISTING (SF)	NEW (SF)	SUB-TOTAL	TENANT
3RD FLOOR	---	---	---	---
2ND FLOOR	---	---	---	---
MEZZANINE	---	---	---	---
1ST FLOOR	1,241	578	1,819	---
BASEMENT	---	---	---	---
TOTAL	1,241	578	1,819	---

ALLOWABLE AREA:

PRIMARY OCCUPANCY:

[ ] ASSEMBLY [ ] A-1 [ ] A-2 [ ] A-3 [ ] A-4 [ ] A-5
[X] BUSINESS
[ ] EDUCATIONAL
[ ] FACTORY [ ] F-1 Moderate [ ] F-2 Low
[ ] HIGH-HAZARD [ ] H-1 Detonate [ ] H-2 Deflagrate [ ] H-3 Combust [ ] H-4 Health [ ] H-5 HPM
[ ] INSTITUTIONAL [ ] I-1 [ ] I-2 [ ] I-3 [ ] I-4
I-1 Condition [ ] 1 [ ] 2
I-2 Condition [ ] 1 [ ] 2
I-3 Condition [ ] 1 [ ]2 [ ] 3 [ ] 4 [ ] 5
[ ] MERCANTILE
[ ] RESIDENTIAL [ ] R-1 [ ] R-2 [ ] R-3 [ ] R-4
[ ] STORAGE [ ] S-1 Moderate [ ] S-2 Low [ ] HIGH-PILED
[ ] PARKING GARAGE [ ] OPEN [ ] ENCLOSED [ ] REPAIR GARAGE
[ ]UTILITY & MISCELLANEOUS

ACCESSORY OCCUPANCY CLASSIFICATION(S): _____
INCIDENTAL USES (Table 509): _____
This separation is not exempt as a Non-Separated Use (see exceptions).
SPECIAL USES (Chapter 4 - List Code Sections): _____
SPECIAL PROVISIONS (Chapter 5 - List Code Sections): _____
MIXED OCCUPANCY: Separation: Exception: _____

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

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

STORY NO.	DESCR'N AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2.4 AREA	(C) AREA FOR OPEN SPACE INCREASE 1,5	(D) ALLOWABLE AREA OR UNLIMITED 2,3
1	B	1,819	9,000	6,750	15,750
---	---	---	---	---	---
---	---	---	---	---	---

1. Frontage Area Increases From Section 506.2 Are Competed Thus:
   A. Perimeter Which Fronts A Public Way Or Open Space Having 20 Ft Min. Width = 176' (F).
   B. Total Building Perimeter = 176' (P).
   C. Ratio (F/P) = 1 (F/P).
   D. W= Minimum Width Of Public Way = 30 (W)
2. Unlimited area applicable under conditions of Section 507.
3. Max. Building Area = Total No. Of Stories In The Building X D (maximum 3 stories) (506.2).
4. The Maximum Area Of Open Parking Garages Must Comply With 406.5.4. The Maximum Area Of Air Traffic Control Towers Must Comply With 412.3.1.
5. Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE (TABLES 504.3 & 504.4)	SHOWN ON PLANS	CODE REFERENCE
BUILDING HEIGHT IN FEET	40 (FT)	19 (FT)	---
BUILDING HEIGHT IN STORIES	1 (STORIES ABOVE GRADE PLANE)	1 (STORIES)	---

1. Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

NC DEPT. OF INSURANCE
2018 APPENDIX B BUILDING CODE SUMMARY CONTINUED

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEP'N DIST. (FT)	RATING REQ'D	RATING PROV'D (W/ _____* REDUCTION)	DETAIL # AND SHEET #	DES. # FOR RATED ASS'Y	DES. # FOR RATED PENET'N	DES. # FOR RATED JOINTS
STRUCTURAL FRAME, INCLUDING COLUMNS GIRDERS, TRUSSES	≥ 30'	0	0	---	---	---	---
BEARING WALLS EXTERIOR							
NORTH	---	---	---	---	---	---	---
EAST	---	---	---	---	---	---	---
WEST	---	---	---	---	---	---	---
SOUTH	---	---	---	---	---	---	---
INTERIOR	---	---	---	---	---	---	---
NONBEARING WALLS AND PARTITIONS EXTERIOR							
NORTH	≥ 30'	0	0	---	---	---	---
EAST	≥ 30'	0	0	---	---	---	---
WEST	≥ 30'	0	0	---	---	---	---
SOUTH	≥ 30'	0	0	---	---	---	---
INTERIOR WALL & PARTITIONS		0	0	---	---	---	---
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS		---	---	---	---	---	---
FLOOR CEILING ASSEMBLY		---	---	---	---	---	---
COLUMNS SUPPORTING FLOORS		---	---	---	---	---	---
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS							
ROOF CEILING ASSEMBLY		0	0	---	---	---	---
COLUMNS SUPPORTING ROOF		---	---	---	---	---	---
SHAFTS ENCLOSURES-EXIT		---	---	---	---	---	---
SHAFTS ENCLOSURES-OTHER		---	---	---	---	---	---
CORRIDOR SEPARATION		---	---	---	---	---	---
OCCUPANCY/FIRE BARRIER SEPARATION		---	---	---	---	---	---
PARTY/FIRE WALL SEPARATION		---	---	---	---	---	---
SMOKE BARRIER SEPARATION		---	---	---	---	---	---
SMOKE PARTITION		---	---	---	---	---	---
TENANT/DWELLING UNIT/SLEEPING UNIT SEPARATION		---	---	---	---	---	---
INCIDENTAL USE SEPARATION		---	---	---	---	---	---

*INDICATE SECTION NO. PERMITTING REDUCTION

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
> 30'-0"	---	NO LIMIT	---
> 30'-0"	---	NO LIMIT	---
> 30'-0"	---	NO LIMIT	---
> 30'-0"	---	NO LIMIT	---

LIFE SAFETY SYSTEM REQUIREMENTS

EMERGENCY LIGHTING: [X] YES [ ] NO SMOKE DETECTION SYSTEMS: [ ] YES [X] NO
EXIT SIGNS: [X] YES [ ] NO PANIC HARDWARE: [ ] YES [X] NO
FIRE ALARM: [ ] YES [X] NO

LIFE SAFETY PLAN REQUIREMENTS SHEET NUMBER A1

[ ] FIRE AND/OR SMOKE RATED WALL LOCATIONS (CHAPTER 7)
[ ] ASSUMED AND REAL PROPERTY LINE LOCATIONS (IF NOT ON 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 CALCULATION (TABLE 1004.1.2)
[X] OCCUPANT LOADS FOR EACH AREA
[X] EXIT ACCESS TRAVEL DISTANCES (1017)
[X] COMMON PATH OF TRAVEL DISTANCES (1006.2.1 & 1006.3.2(1))
[ ] DEAD END LENGTHS (1020.4)
[X] CLEAR EXIT WIDTHS FOR EACH EXIT DOOR
[X] MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.3)
[X] ACTUAL OCCUPANT LOAD FOR EACH DOOR
[ ] A SEPARATE SCHEMATIC PLAN INDICATING WHERE FIRE RATED FLOOR/CEILING AND/OR ROOF STRUCTURE IS PROVIDED FOR PURPOSES OF OCCUPANCY SEPARATION
[ ] LOCATION OF DOORS WITH PANIC HARDWARE (1010.1.10)
[ ] LOCATION OF DOORS WITH DELAYED EGRESS LOCKS AND THE AMOUNT OF THE 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 ON TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING THE ITEMS ABOVE

ACCESSIBLE DWELLING UNITS (SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQ'D	ACCESSIBLE UNITS PROV'D	TYPE A UNITS REQ'D	TYPE A UNITS PROV'D	TYPE B UNITS REQ'D	TYPE B UNITS PROV'D	TOTAL ACCESSIBLE UNITS PROV'D
---	---	---	---	---	---	---	---

ACCESSIBLE PARKING (SECTION 1106) **EXISTING TO REMAIN**

LOT OR PARKING AREA	TOTAL # OF SPACES REQ'D	TOTAL # OF SPACES PROVID'D	# OF ACCESSIBLE SPACES PROVIDED REG. WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	TOTAL # ACCESSIBLE PROVIDED
---	---	---	---	---	---	---
---	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---

PLUMBING FIXTURE REQUIREMENT (TABLE 403.1)

19 OCCUPANTS

USE		WATERCLOSETS MALE	WATERCLOSETS FEMALE	WATERCLOSETS UNISEX	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	LAVATORIES UNISEX	SHOWERS/ TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBLE
SPACE	EXIST'G	3	6	0	3	4	4	0	---	1	1
	NEW	---	---	2	---	---	---	0	---	---	---
	REQ'D	1	2	---	---	---	---	2	---	---	---

SPECIAL APPROVALS

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

NC DEPT. OF INSURANCE
2018 APPENDIX B BUILDING CODE SUMMARY CONTINUED

ENERGY SUMMARY

ENERGY REQUIREMENTS: THERMAL ENVELOPE EXIST. TO REMAIN ADDITION INFO. BELOW
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 cost for the proposed design.

Existing building envelope complies with code:_____

Exempt Building: _____ Provide code or statutory refrence:

Climate Zone: ---

Method of Compliance: _____
(If "Other" specify source here)_____

THERMAL ENVELOPE **(Prescriptive method only)**

Roof/ceiling Assembly (each assembly)
Description of assembly: ATTIC WOOD FRAMING
U-Value of total assembly: ---
R-Value of insulation: R38
Skylights in each assembly
U-Value of skylight: na
Total square footage of skylights in each assembly : na

Exterior Walls (each assembly)
Description of assembly: WALLS ABOVE GRADE WOOD FRAMED
U-Value of total assembly: ---
R-Value of insulation: R13 + R3.8c
Openings (windows or doors with glazing)
U-Value of assembly 0.32
Solar heat gain coefficient 0.33
Projection factor 0.3
Door R-Values full lite 0.77 U-factor

Walls below grade (each assembly)
Description of assembly: na
U-Value of total assembly: na
R-Value of insulation: na

Floors over unconditioned space (each assembly)
Description of assembly: na
U-Value of total assembly: na
R-Value of insulation: na

Floors slab on grade
Description of assembly: SLAB ON GRADE
U-Value of total assembly: ---
R-Value of insulation: ---
Horizontal/Vertical requirement: ---
Slab heated : NO

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

DESIGN LOADS:

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

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

Ground Snow Load: _____ psf

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

SEISMIC DESIGN CATEGORY: [ ] A [X] B [ ] C [ ] D
Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) [ ] I [X] II [ ] III [ ] IV
Spectral Response Acceleration S_S 0.118 %g S_1 0.06 %g
Site Classification (ASCE 7) [ ] A [X] B [ ] C [ ] D [ ] E [ ] F
Data Source: [ ] Field Test [X] Presumptive [ ] Historical Data
Basic structural system [ ] Bearing Wall [ ] Dual w/Special Moment Frame
[ ] Building Frame [ ] Dual w/Intermediate R/C or Special Steel
[ ] Moment Frame [ ] Inverted Pendulum
Analysis Procedure: [ ] Simplified [ ] Equavalent Lateral Force [ ] Dynamic
Architectural, Mechanical, Components anchored? [ ] Yes [X] No

LATERAL DESIGN CONTROL: Earthquake [ ] Wind [ ]

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

FIRE-FLOW REQUIREMENTS
(Appendix B of the 2018 NCFC)

AREA LESS THAN 3,600 SF WITHOUT AUTO. SPRINKLER SYSTEM REQUIRES 1,000 gpm FOR 1 HOUR.

SEE FIRE DEPT. LETTER FOR ALTERNATE METHOD.

APPENDIX B

2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)
ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance

Energy Code: Prescriptive [X] Energy Cost Budget [ ]
ASHRAE 90.1: Prescriptive [ ] Energy Cost Budget [ ]

Lighting Schedule

lamp type required in fixture — See Light Fixture Schedule
number of lamps in fixture
ballast type used in fixture
ballast factor in fixture
total wattage in fixture
total interior wattage specified vs. allowed 5214VA / 5568VA
total exterior wattage specified vs. allowed 742VA / 750VA

Additional Prescriptive Compliance

[ ] 506.2.1 More Efficient Mechanical Equipment
[ ] 506.2.2 Reduced Lighting Power Density
[ ] 506.2.3 Energy Recovery Ventilation Systems
[ ] 506.2.4 Higher Efficiency Service Water Heater
[ ] 506.2.5 On-Site Supply of Renewable Energy
[ ] 506.2.6 automatic Daylighting Control System

APPENDIX B

2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)
MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEM AND EQUIPMENT

Thermal Zone 4A
winter dry bulb 26F
summer dry bulb 92F

Interior Design Conditions
winter dry bulb 72F
summer dry bulb 75F
relative humidity 50%

Building Heating Load 62,300 BTU/hr

Building Cooling Load 59,900 BTU/hr

Mechanical Spacing Conditioning System
Unitary – The tenant space is served the following systems:
(1) 5 ton split system heat pump with 1000 cfm ERV
Boiler – Not applicable to this project.
Chiller – Not applicable to this project.

Equipment efficiencies
Efficiencies and outputs are listed on equipment schedules – See drawings.

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919.779.9797
www.wsarchitectspa.com

GINGER S. SUMMER — REGISTERED ARCHITECT — 11075 — NORTH CAROLINA — RALEIGH, NC
Documents by
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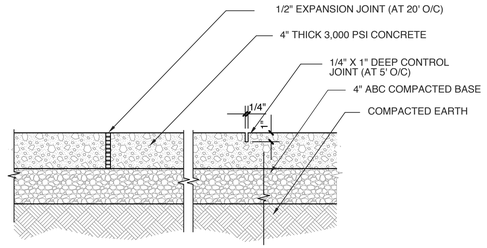
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APPENDIX B-CODE

SHEET 2 OF 15

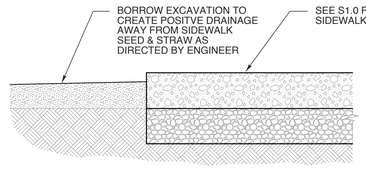
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PLOT DATE 10/27/26
REVISION 00/00/21

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4 CONCRETE WALK DETAILS
SCALE: 1 1/2" = 1'-0"



5 CONCRETE WALK DETAILS
SCALE: 1 1/2" = 1'-0"

THE SITE WILL BE CLOSED TO THE PUBLIC DURING CONSTRUCTION. THE GC IS RESPONSIBLE FOR SECURING ITEMS LEFT ON SITE. IF NEEDED A STORAGE UNIT MAY BE PLACED ONSITE FOR SECURE STORAGE. THE LOCATION SHALL BE DETERMINED BY THE ENGINEER.

NOTES:
-EXIST. CONC. SIDEWALK TO BE SAW CUT AND SECTIONS COMPLETELY REMOVED AS NEEDED TO PERFORM UNDERGROUND WORK.
-NEW SIDEWALK TO BE FLUSH WITH EXISTING AND SLOPED TO DRAIN AS TO NOT CREATE ANY AREAS OF POOLING. MAX CROSS SLOPE = 1/4"/FT.
-NEW SIDEWALK TO MAINTAIN HANDICAP ACCESSIBILITY STANDARDS.

KEYED NOTES

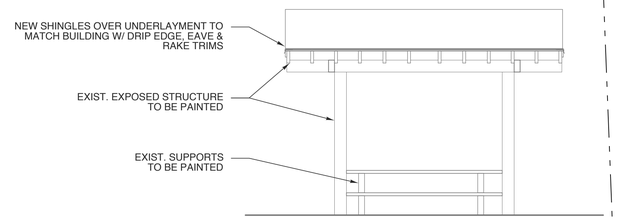
1. CLEAN AND REPAINT ALL LIGHT POLES TYP.
2. NEW FLAG POLE LIGHT SEE ELECTRICAL

VERIFY LOCATION OF ALL EXISTING PICNIC SHELTERS AND LIGHT POLES ON SITE.

LEGEND

- PICNIC TABLE
- COVERED PICNIC TABLE
- SHORTER LIGHT POLE
- TALLER LIGHT POLE
- EXIST. FLAG POLE
- EXIST. 1/4" GATE VALVE
- (M) WATER METER

THERE ARE SEVERAL EXISTING SHELTERS ON SITE. ALL TO RECIEVE PAINT AND SHINGLES AS SEEN ON DETAIL BELOW.



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

2 Not used
SCALE: 1/4" = 1'-0"

1 SITE PLAN
SCALE: 1" = 20'

20' 16' 12' 8' 4' 0 20'

WEEKS SUMMER ARCHITECTS

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www.wsarchitectspa.com

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PROJECT TITLE
CURRITUCK COUNTY REST AREA
5330 US 158 CARATOKE HWY
POPULAR BRANCH, NORTH CAROLINA

PROJECT NO.
2404A

DRAWING TITLE
SITE PLAN

SHEET 3 OF 15

G0.2

PLOT DATE 10/27/26
REVISION ---

This original sheet is 24" x 36"; other dimensions indicate it has been altered.

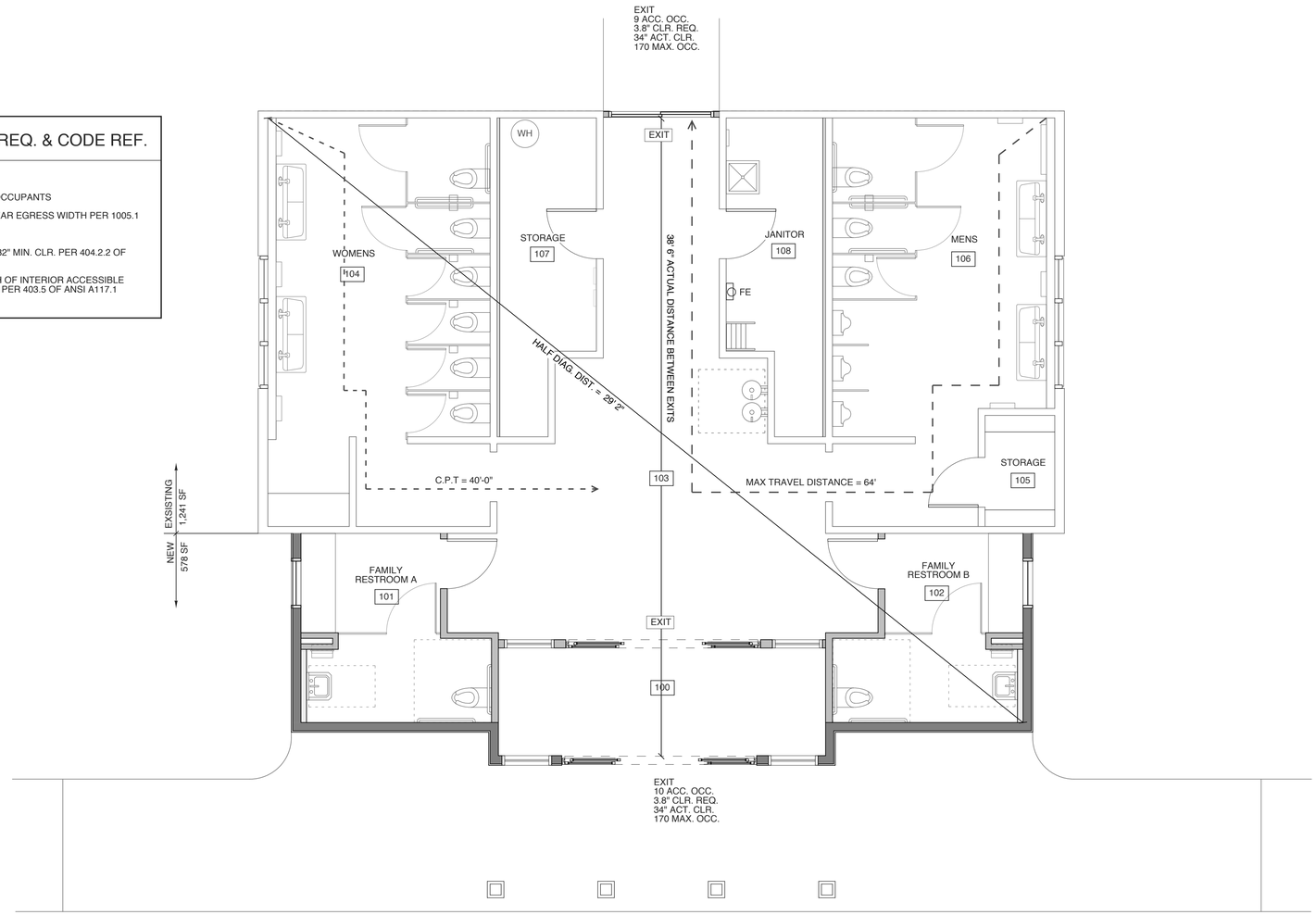
EGRESS REQ. & CODE REF.

REST AREA
USE: BUSINESS
1813 SF/100 = 19 OCCUPANTS

19 x 0.2" = 3.8" CLEAR EGRESS WIDTH PER 1005.1 OF NCSBC

DOORS TO HAVE 32" MIN. CLR. PER 404.2.2 OF ANSI A117.1

THE CLEAR WIDTH OF INTERIOR ACCESSIBLE ROUTE IS 36" MIN. PER 403.5 OF ANSI A117.1



1 LIFE SAFETY PLAN
SCALE: 1/4" = 1'-0"

5' 4' 3' 2' 1' 0 5'

WALL LEGEND

- NEW EXT. WALL
- NEW EXT. WALL TO BE FURRED OUT
- NEW INTERIOR WALL
- EXIST. EXT. WALL TO REMAIN
- EXIST. FURRED OUT EXT. WALL TO REMAIN
- EXIST. EXT. WALL TO REMAIN TO BE FURRED OUT

LEGEND

- EGRESS PATH
- C.P.T. COMMON PATH OF TRAVEL
- FE — ABC FIRE EXTINGUISHER IN PARTIALLY RECESSED CABINET HANDLE OF EXT. 48" AFF MAX VERIFY LOC. W/ FIRE MARSHALL

WEEKS SUMMER ARCHITECTS

W. S. ARCHITECTS, PA
3305-109 Durham Drive
Raleigh, North Carolina 27603
919.779.9797
www.wsarchitectspa.com

GINGER S. SUMMER
REGISTERED ARCHITECT
11075
NORTH CAROLINA
RALEIGH, NC
Document signed by:
Ginger S. Summer
E9D2834566 2C422...
10/27/2026

BID DOCUMENTS
10.27.26

SC0# 26-31654-01A

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5330 CARATOKE HWY US 158
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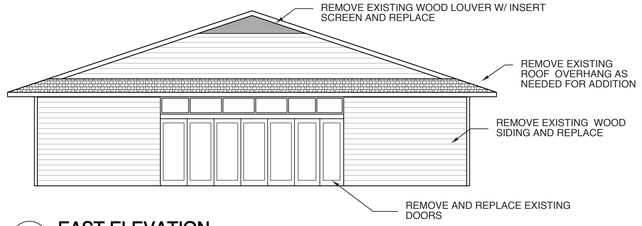
DRAWING TITLE
LIFE SAFETY PLAN

SHEET 4 OF 15

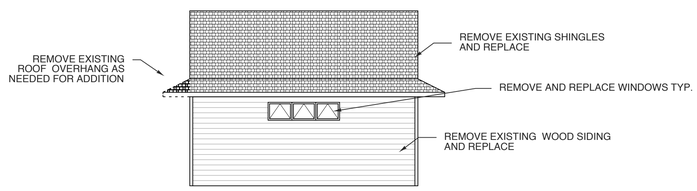
A1

PLOT DATE 10/27/26
REVISION 00/00/00

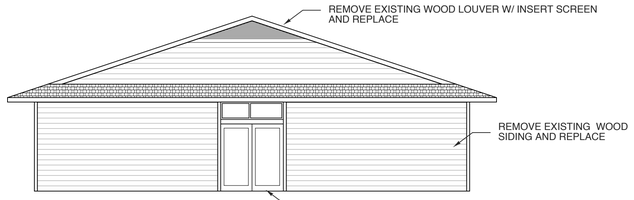
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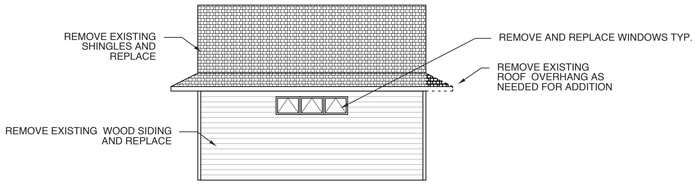
1 **EAST ELEVATION**
SCALE: 1/8" = 1'-0"



2 **NORTH ELEVATION**
SCALE: 1/8" = 1'-0"



3 **WEST ELEVATION**
SCALE: 1/8" = 1'-0"



4 **SOUTH ELEVATION**
SCALE: 1/8" = 1'-0"

DEMOLITION & CONSTRUCTION NOTES

ALL MATERIALS SHALL BE NEW AND OF QUANTITY SPECIFIED, EXCEPT WHERE RECLAIMED MATERIAL IS INDICATED FOR USE. WORKMANSHIP SHALL AT ALL TIMES BE OF A GRADE ACCEPTED AS THE BEST PRACTICE OF THE PARTICULAR TRADE INVOLVED, AND AS STIPULATED IN WRITTEN STANDARDS OF RECOGNISED ORGANIZATIONS OR INSTITUTES OF THE RESPECTIVE TRADES EXCEPT AS EXCEEDED OR QUALIFIED BY THE SPECIFICATIONS.

ITEMS RESULTING FROM THE DEMOLITION AND ITEMS WHICH ARE NOT TO BE RETURNED TO THE OWNER AS NOTED IN THE CONTRACT DOCUMENTS, SHALL BE REMOVED FROM THE SITE, AS THE WORK PROGRESSES, AND DISPOSED OF IN A LEGAL MANER. .

THE CONTRACTOR SHALL REVIEW EACH PHASE OF THE WORK PRIOR TO PROCEEDING WITH THE WORK AND SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES IN THE CONTRACT DOCUMENTS THAT WILL RESULT IN CHANGES TO THE WORK.

THE EXISTING STRUCTURE SHALL NOT BE ALTERED EXCEPT AS INDICATED IN THE CONTRACT DOCUMENTS. DO NOT CUT, NOTCH, BLOCK OR RELOCATE STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER OR ARCHITECT.

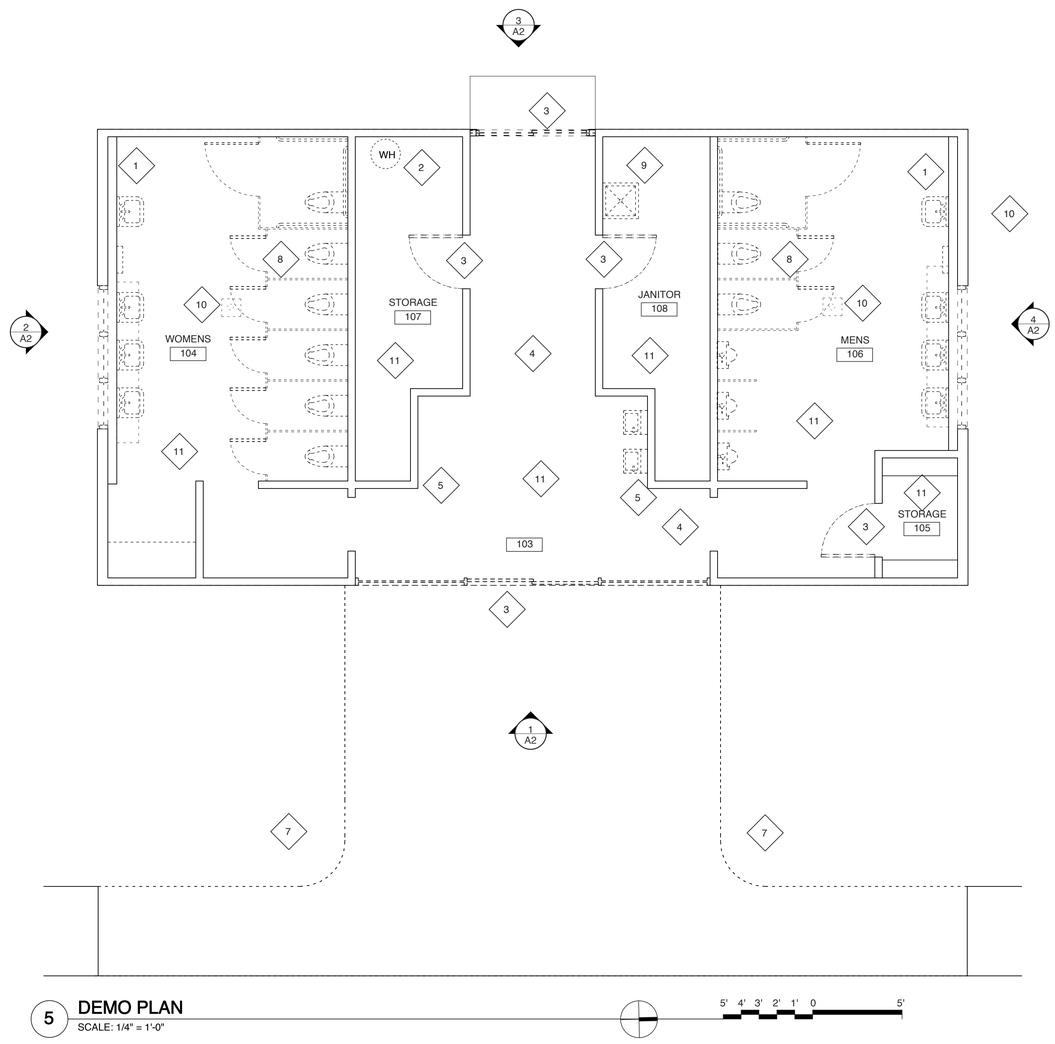
AREA OUTSIDE OF AREA OF WORK TO REMAIN CLEAR AND CLEAN OF DEBRIS, EQUIPMENT ETC. AT ALL TIMES..

THE SITE WILL BE CLOSED TO VISITORS WHILE UNDER CONSTRUCTION.

IF CONSTRUCTION REQUIRES AN INTERRUPTION OF SERVICES TO THE BUILDING, THE OWNER AND ARCHITECT SHALL BE NOTIFIED AND AN APPROPRIATE TIMING WILL BE AGREED UPON.

KEYED NOTES

1	REMOVE TILE FROM WALLS TYP-REMOVE AND REPLACE EXIST. SUBSTRATE
2	WATER HEATER TO BE REMOVED AND REPLACED WITH LIKE - SEE PLUMBING
3	REMOVE AND REPLACE EXIST. DOOR
4	REPLACE EXIST. WALL DISPLAY(S)-TYP
5	PROTECT EXIST. WALLS-TYP.
7	DEMO SIDEWALK AS NEEDED, SEE SITE PLAN FOR EXIST. WATER LINE AS TO NOT DAMAGE
8	REMOVE ALL FIXTURES SEE PLUMBING FOR DETAILS
9	REPLACE MOP SINK - SEE PLUMBING
10	REMOVE AND REPLACE CONCRETE AS NEEDED
11	REMOVE BOTH LAYERS OF TILE INCLUDING MUD BED REPAIR SLAB AS NEEDED



5 **DEMO PLAN**
SCALE: 1/4" = 1'-0"

5' 4' 3' 2' 1' 0 5'

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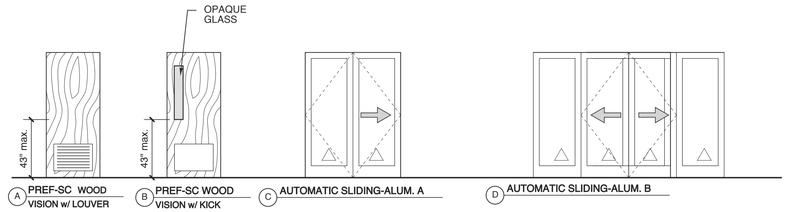
DRAWING TITLE
DEMO PLAN & ELEV

SHEET 5 OF 15

A2

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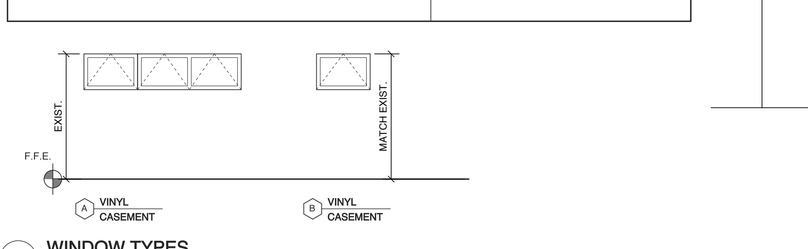


2 DOOR TYPES

△ INDICATES TEMPERED GLASS

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

TO COORDINATE WITH EC ON MULLION MNTD. EMERGENCY LIGHTS



3 DOOR FRAME TYPES

△ INDICATES TEMPERED GLASS

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

DOOR SCHEDULE

	DOOR			FRAME			
MARK	SIZE	MAT'L	TYPE	MAT'L	TYPE	HDWR SET NO.	REMARKS
1	3'-0" x 7'-0"	SC WOOD	A	HOLLOW MTL.	A	3	NEW THRESHOLDS
2	3'-0" x 7'-0"	SC WOOD	A	HOLLOW MTL.	A	3	NEW THRESHOLDS
3	3'-0" x 7'-0"	SC WOOD	A	HOLLOW MTL.	A	3	---
4	3'-0" x 7'-0"	SC WOOD	B	HOLLOW MTL.	A	2	---
5	3'-0" x 7'-0"	SC WOOD	B	HOLLOW MTL.	A	2	---
6	6'-0" x 7'-0"	ALUM.	C	ALUM.	B	1	---
7	11'-0" X 7'-0"	ALUM	D	ALUM.	C	1	EQUAL SIZE SIDE LITES
8	11'-0" X 7'-0"	ALUM	D	ALUM.	C	1	EQUAL SIZE SIDE LITES

NOTES:

- COORDINATE KEYING OF HARDWARE WITH OWNER
- DOOR HANDLES TO BE LEVER HANDLE
- ALL DOORS TO MEET NCSBC SECTION 1609.1.2
- HARWARE & KICK PLATE FINISHES TO MATCH HANDLESETS
- STOREFRONT BASIS OF DESIGN KAWNEER TRIFAB 601T. FINISH TO MATCH EXISTING.
- SEE ENERGY REPORT ON COVER SHEET FOR REQUIRED THERMAL VALUES.

HARDWARE SETS

1. AUTOMATIC SLIDING W/EMERGENCY BREAK AWAY OPERATION
2. PASSAGE W/CLOSER
3. STOREROOM HARDWARE WITH CLOSER, ELECTRONIC KEYPAD

SEE SPEC FOR MORE INFORMATION

4 WINDOW TYPES

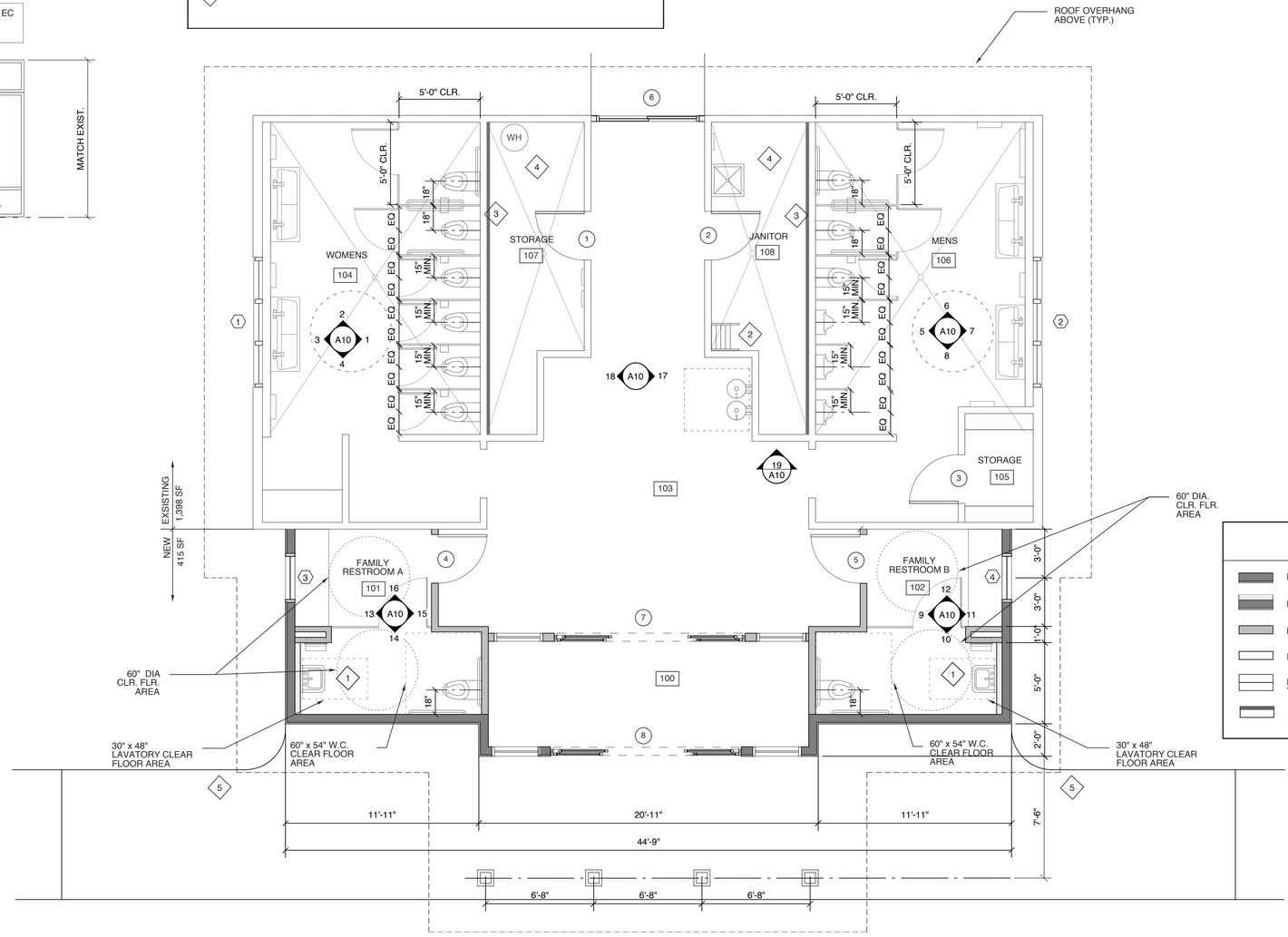
SCALE: 1/4" = 1'-0"

WINDOW SCHEDULE

	WINDOW			FRAME		
MARK	SIZE	MAT'L	TYPE	TYPE	DETAILS	REMARKS
1	6'-0" x 2'-0"	1" INSUL. GLASS PANELS	A	VINYL CLAD WOOD	---	INSTALL AT EXIST. HEIGHT
2	6'-0" X 2'-0"	1" INSUL. GLASS PANELS	A	VINYL CLAD WOOD	---	INSTALL AT EXIST. HEIGHT
3	3'-0" X 2'-0"	1" INSUL. GLASS PANELS	B	VINYL CLAD WOOD	---	---
4	3'-0" X 2'-0"	1" INSUL. GLASS PANELS	B	VINYL CLAD WOOD	---	---

KEYED NOTES

1. FUR OUT WALL TO ACCOMMODATE PIPING AS NEEDED
2. SHIPS LADDER FOR ATTIC ACCESS
3. SISTER EXIST. 2X4 WALL FRAMING WHERE DAMAGED W/2X6 STUDS. FUR OUT REMAINING WALL TO BE FLUSH. REPAIR AND REPLACE SHEATHING
4. REPLACE DRYWALL
5. REPLACE SIDEWALK AS NEEDED TO TIE INTO ADDITION SEE DETAIL 4/A0.1 AND 5/A0.1



1 FLOOR PLAN

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

5' 4' 3' 2' 1' 0 5'

WALL LEGEND

- NEW EXT. WALL
- NEW EXT. WALL TO BE FURRED OUT
- NEW INTERIOR WALL
- EXIST. EXT. WALL TO REMAIN
- EXIST. FURRED OUT EXT. WALL TO REMAIN
- EXIST. WALL TO REMAIN TO BE FURRED OUT

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DRAWING TITLE
FLOOR PLAN

SHEET 6 OF 15

A3

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ROOM FINISH SCHEDULE

MARK	ROOM NAME	FLOOR	BASE	WALL				WAINSCOT	CEILING	REMARKS / NOTES
				N	E	S	W		MATERIAL	
100	AIRLOCK	POR. TILE	POR. TILE	PAINT EXIST.				---	PTD GYP BD.	---
101	FAMILY RESTROOM A	POR. TILE	POR. TILE	POR. TILE				---	PTD GYP BD.	---
102	FAMILY RESTROOM B	POR. TILE	POR. TILE	POR. TILE				---	PTD GYP BD.	---
103	ENTRYWAY	POR. TILE	---	FIBER CEMENT PTD.				---	SEE RCP	MATCH EXIST. SIDING ON WALLS
104	WOMENS	POR. TILE	POR. TILE	POR. TILE				---	REPAIR CRACKS PAINT EXIST.	---
105	MENS	POR. TILE	POR. TILE	POR. TILE				---	REPAIR CRACKS PAINT EXIST.	---
106	STORAGE	POR. TILE	POR. TILE	PAINT				---	REPAIR CRACKS PAINT EXIST.	USE SCHLUTER FOR WALL BASE TRANSITION SEE NOTE IN TILE LEGEND
107	STORAGE	POR. TILE	POR. TILE	PAINT				---	REPAIR CRACKS PAINT EXIST.	USE SCHLUTER FOR WALL BASE TRANSITION SEE NOTE IN TILE LEGEND
108	JANITOR	POR. TILE	POR. TILE	PAINT				---	REPAIR CRACKS PAINT EXIST.	USE SCHLUTER FOR WALL BASE TRANSITION SEE NOTE IN TILE LEGEND

TILE NOTES

1. WALL TILE TO BE APPLIED TO CEMENT BOARD AS RECOMMENDED BY MANUFACTURER
2. GROUT JOINTS TO BE 1/8".
3. ALL GROUT TO BE EPOXY. CLEAN RESIDUE IN SMALL AREAS CLEAN SUCH THAT NO HAZE TO REMAIN.
4. CAULK ALL INSIDE CORNERS AT TILE
5. MAINTAIN EXIST. CONTROL JTS. IN TILE.
6. STAGGER TILE PATTERN AT 1/3 TILE LENGTH.
7. PLAN LAYOUT TO MINIMIZE TILES LESS THAN 1" LAYOUT ON PLAN FOR REFERENCE ONLY
8. LIPPAGE TOLERANCE IS 1/32". KEEP TO MINIMUM. USE LEVELING SYSTEM AS SPEC'ED.

TOILET ACCESSORY SCHEDULE

MARK	ITEM	MOUNT	MARK	ITEM	MOUNT
A	SURFACE-MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER (B-4288)	28" MIN. 48" MAX. A.F.S.	H	RECESSED FOLDED PAPER TOWEL DISP. AND WASTE RECEPTACLE (B-43944)	RE: ELEV.
B	AUTOMATIC LIQUID SOAP DISPENSER (AIKE BRUSHED STEEL AK1206)	42" MAX. A.F.S.	J	WELDED FRAME MIRROR (B-2908-1828)	RE: ELEV.
C	36" HORIZONTAL GRAB BAR (B-6806.99 X 36)	33"-36" A.F.S.	K	WELDED FRAME MIRROR (B-2908-1860)	RE: ELEV.
D	42" HORIZONTAL GRAB BAR (B-6806.99 X 42)	33"-36" A.F.S.	L	AUTOMATIC HAND DRYER EXCEL THIN AIR TA-SB	48" A.F.S.
E	18" VERTICAL GRAB BAR (B-6806.99 X 18)	RE: ELEV.	M	SS MOP & BROOM HOLDER (B-223 X 24)	60"-72" A.F.S.
F	NOT USED	25"-30" A.F.S.	N	HORZ. STAINLESS STEEL BABY CHANGING STATION- WALL MTD. (KOALA KARE KB110-SSWM)	28"-34" A.F.S.
G	PARTITION MOUNTED SANITARY NAPKIN DISPOSAL (B-4354)	25"-30" A.F.S.			

MANUFACTURER: BOBRICK WASHROOM EQUIPMENT U.N.O. OR APPROVED EQUAL-SEE SPECIFICATION
FINISH: SATIN STAINLESS STEEL

NOTE: GC TO INSTALL BLOCKING FOR ALL TOILET ACCESSORIES AND TOILET PARTITIONS AS REQ'D

SIGNAGE LEGEND

- (A) WOMEN-1 PC. MILLED ALUM PER 2/A3
- (B) MEN-1 PC. MILLED ALUM PER 3/A3
- (C) FAMILY-1 PC. MILLED ALUM PER 1/A3
- (D) WOMEN-INDIVIDUAL LETTERS (6")
- (E) MEN-INDIVIDUAL LETTERS (6")
- (F) JANITOR-1 PC. MILLED ALUM PER 8/A3
- (G) ELECTRICAL-1 PC. MILLED ALUM SIM TO 6/A3
- (H) NO SMOKING-1 PC. MILLED ALUM SIM TO 6/A3

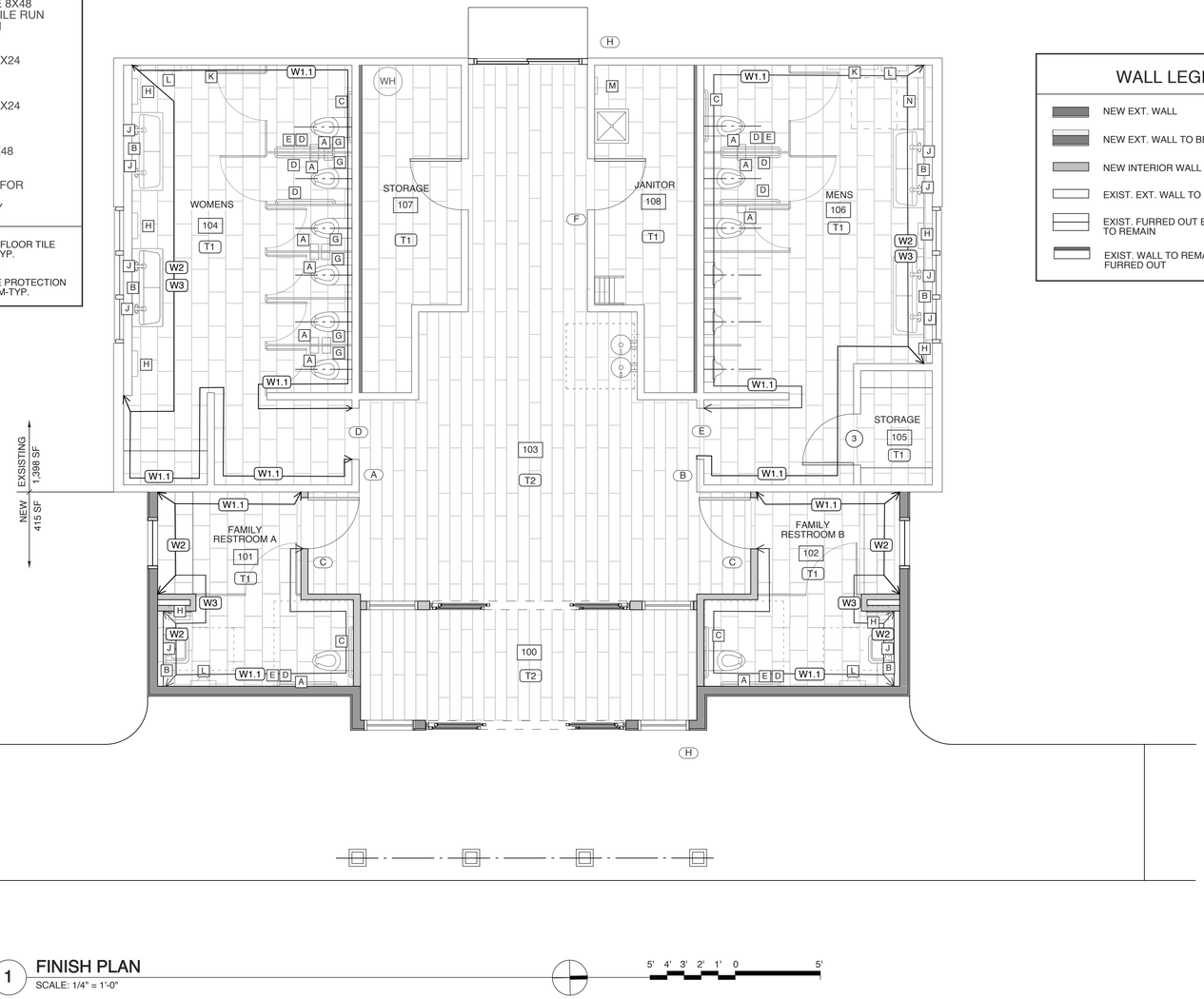
NOTE: VERIFY LOCATION IN FIELD

TILE LEGEND

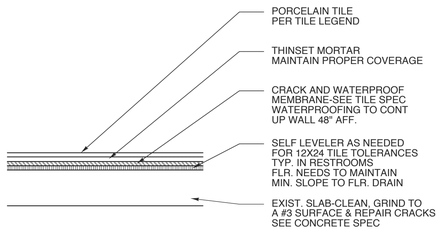
- T1 FLOOR A
  URBAN 2.0, LAVA GREY NATURAL 24X48
  w/6X12 COVE BASE, 1/3 STAGGER PATTERN
- T2 FLOOR B
  TAPESTRY WOOD, SMOKE MATTE 8X48
  w/SCHLUTER AND HORIZONTAL TILE RUN
  ON WALL, 1/3 STAGGER PATTERN
- W1.1 TYP. WALL
  LUSTRE, CREPUSCOLO PEARL 12X24
  POLISHED
- W1.2 TYP. WALL
  LUSTRE, CREPUSCOLO PEARL 24X24
  POLISHED
- W2 TYP. WALL (WET WALL)
  ROCA LM MARBLE NOUVEAU, 48X48
  POLISHED AT SINK
- W3 ACCENT TILE: (SEE FINISH PLAN FOR LOCATIONS)
  COVENTRY OCEAN, 3X16 GLOSSY

COVE TRANSITION WHERE WALL TILE/PANELS MEET FLOOR TILE EQUAL TO SCHLUTER DILEX-AHK SATIN ALUMINUM-TYP.

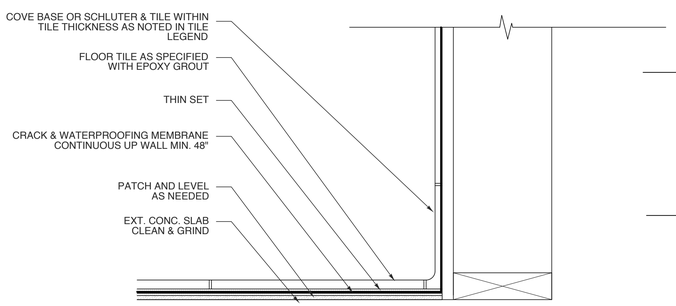
WHERE WALL TILE DOES NOT EXTEND TO CEILING, A QUARTER-ROUND TRANSITION TO BE USED AS EDGE PROTECTION EQUAL TO SCHLUTER RONDOEC-DB SATIN ALUMINUM-TYP.



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



3 SLAB REPAIR/PREP
SCALE: NTS



2 FLOOR TILE DETAIL
SCALE: 3" = 1'-0"

WALL LEGEND

- NEW EXT. WALL
- NEW EXT. WALL TO BE FURRED OUT
- NEW INTERIOR WALL
- EXIST. EXT. WALL TO REMAIN
- EXIST. FURRED OUT EXT. WALL TO REMAIN
- EXIST. WALL TO REMAIN TO BE FURRED OUT

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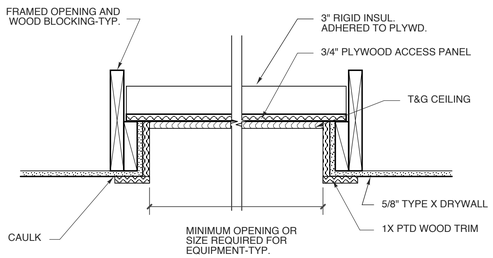
DRAWING TITLE
FINISH FLOOR PLAN

SHEET 7 OF 15

A4

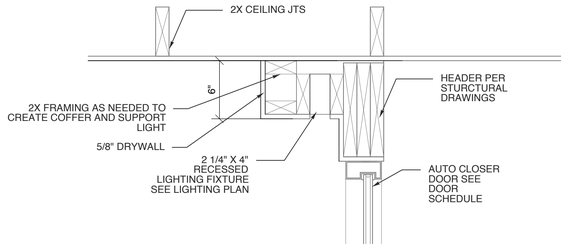
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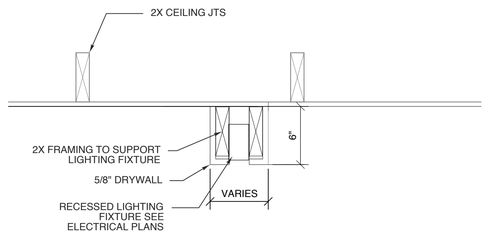
5 ACCESS DOOR DETAIL

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



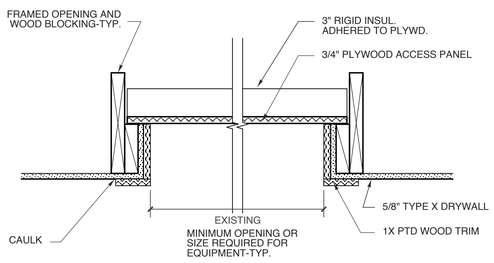
4 COFFER CEILING DETAIL

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



3 COFFER CEILING DETAIL

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



2 ACCESS DOOR DETAIL

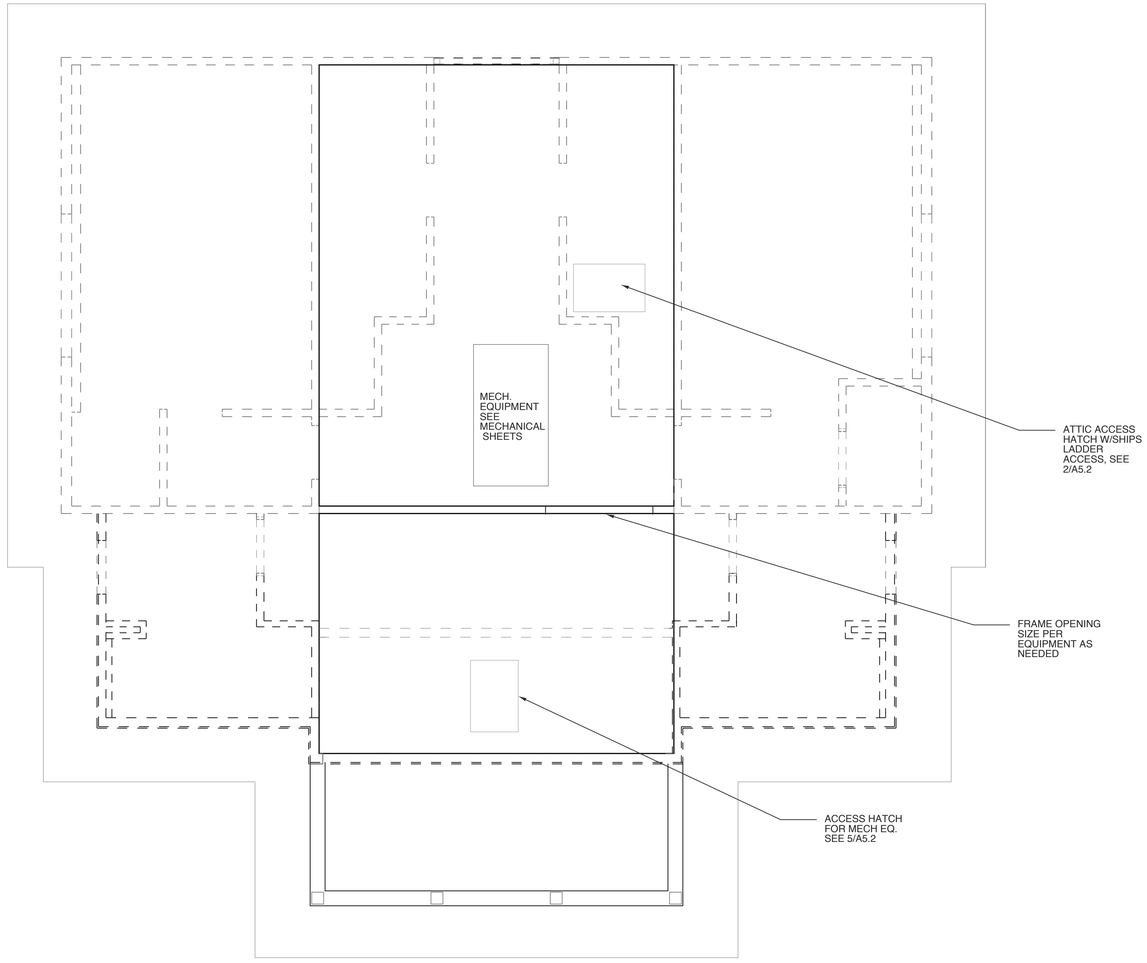
SCALE: 1 1/2" = 1'-0"

ATTIC VENTILATION

1,986 SF OF ATTIC AREA

1,986/300 = 662 SF FREE VENT. AREA REQ'D

50 PERCENT OF THE REQUIRED VENTILATING AREA PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3 FEET ABOVE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION PROVIDED BY THE EAVE OR CORNICE VENTS.



1 ATTIC PLAN

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

5' 4' 3' 2' 1' 0 5'

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SHEET 9 OF 15

A5.2

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ROOF DRAINAGE LEGEND

3" x 4" VERTICAL LEADER

6" EAVE GUTTER @ 1:16 SLOPE

ALL ROOF PENETRATIONS TO BE PAINTED TO MATCH ROOF.

PIPE DOWNSPOUTS AWAY FROM BUILDING DAYLIGHT AT LANDSCAPE BED EDGE-TYP

ROOF DRAINAGE CALCULATIONS

PER 2018 NC PLUMBING CODE

TABLE 1106.2 (2) RECTANGULAR VERTICAL LEADERS

3X4 @ 4"/HR 3,300 SF MAX AREA

TABLE 1106.6 SIZE OF SEMI-CIRCULAR ROOF GUTTERS

6" DIA. @4"/HR 690 SF MAX AREA

@ 1/16: 12 (1/2%) SLOPE

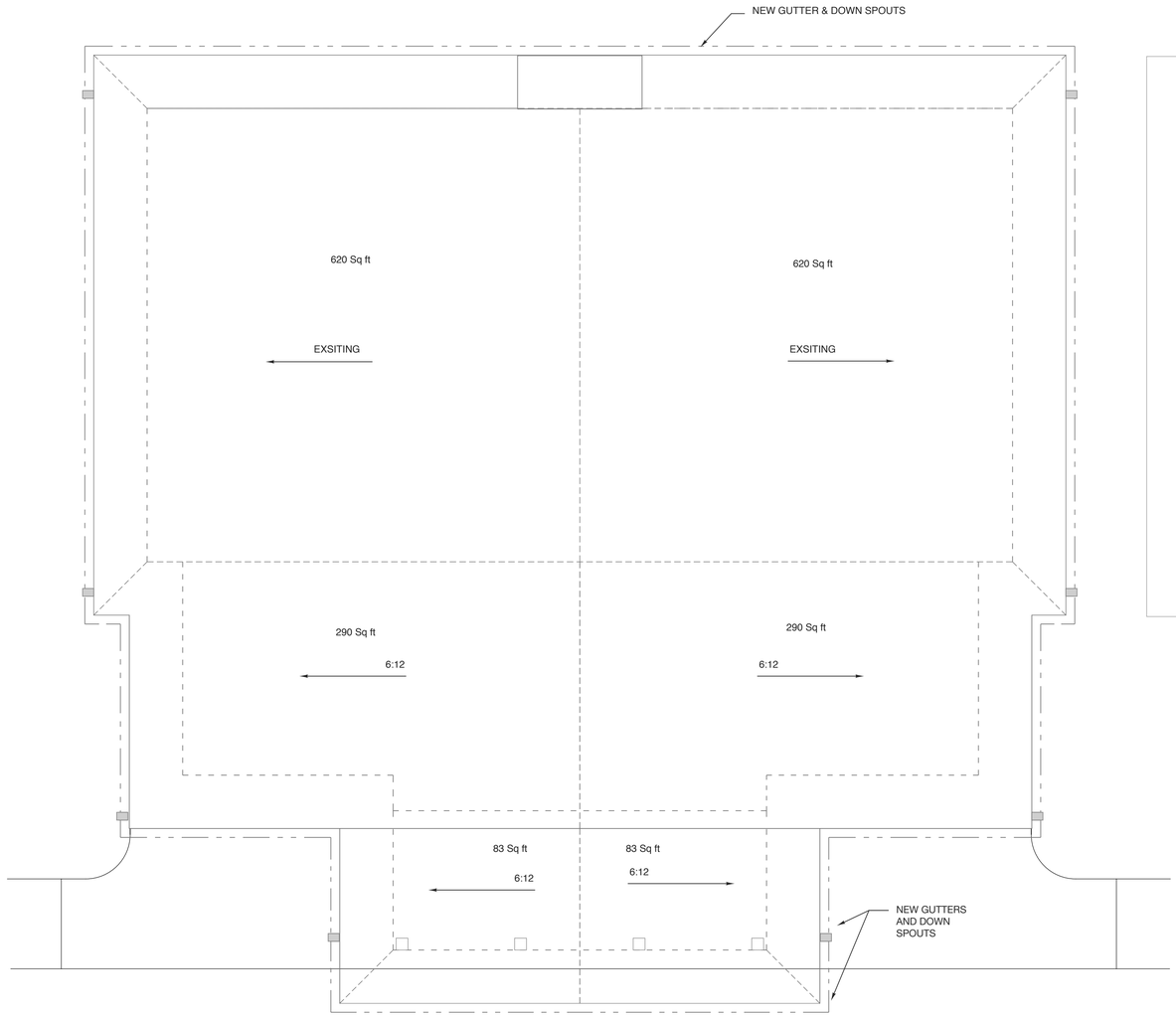
KEYED NOTES

1. EXIST. ATTIC ACCESS ENLARGE AS REQUIRED FOR SHIPS LADDER
2. SHIPS LADDER FOR ATTIC ACCESS
3. EXIST. T&G TO BE PAINTED
4. NEW SOFFIT
5. NEW T&G TO BE PAINTED
6. 32"x48" ATTIC ACCESS HATCH FOR FUTURE EQUIP. REPLACEMNT PURPOSES, CONFRIM SIZE PER EQUIPMENT
7. EMR LT MULLION MTD COORDINATE W/ELECTRICAL
8. PATH/REPAIR EXIST. CEILING AS NEEDED.

GENERAL

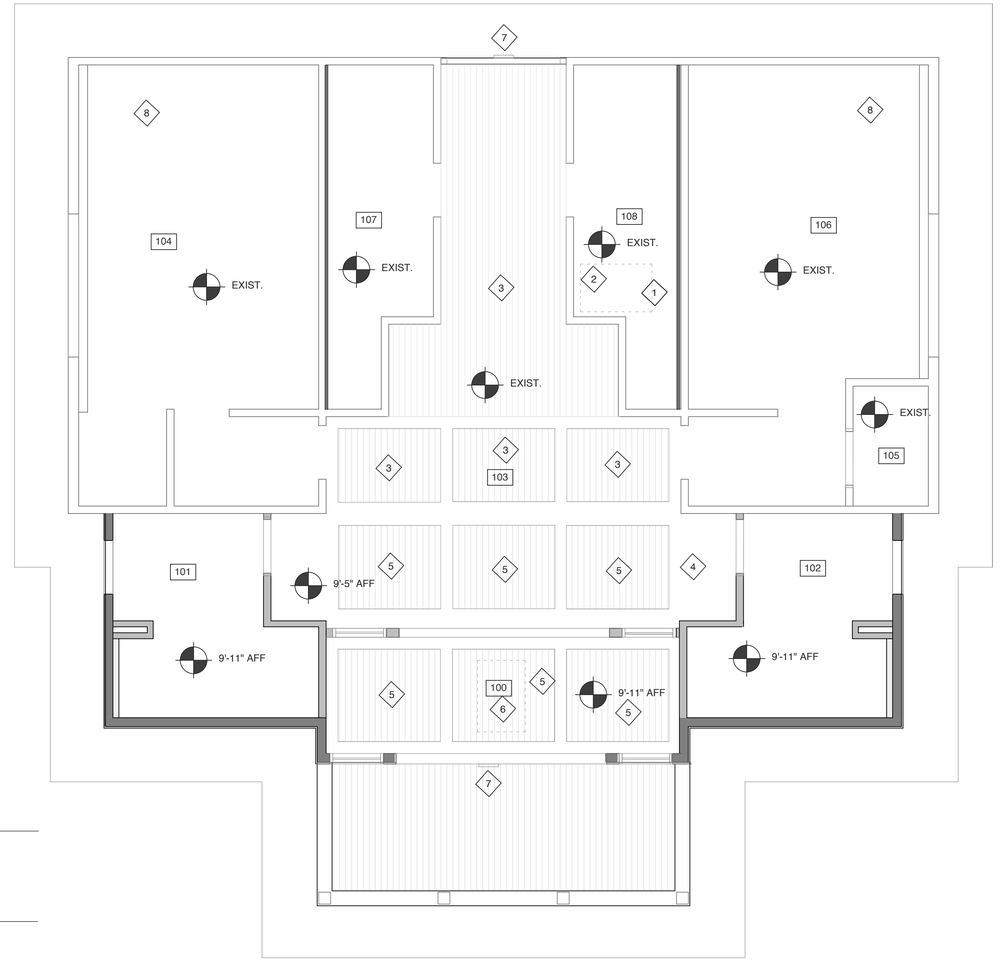
REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR LIGHTING AND HVAC

ALL VENTS AND LIHTING FIXTURES TO BE REMOVED/REPLACED AS NEEDED PER ELECTRICAL AND MECHANICAL DRAWINGS. REPAIR ANY HOLES IN CEILING FROM RELOCATION OF VENTS, LIGHTING FIXTURES, ETC.



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

5' 4' 3' 2' 1' 0 5'



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

5' 4' 3' 2' 1' 0 5'

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Raleigh, North Carolina 27603
919.779.9797
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E6028345662C422...
10/27/2026

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10.27.26

SC0# 26-31654-01A

PROJECT TITLE

CURRITUCK COUNTY REST AREA

5330 CARATOKE HWY US 158
POPULAR BRANCH, NC

PROJECT NO.
2404a

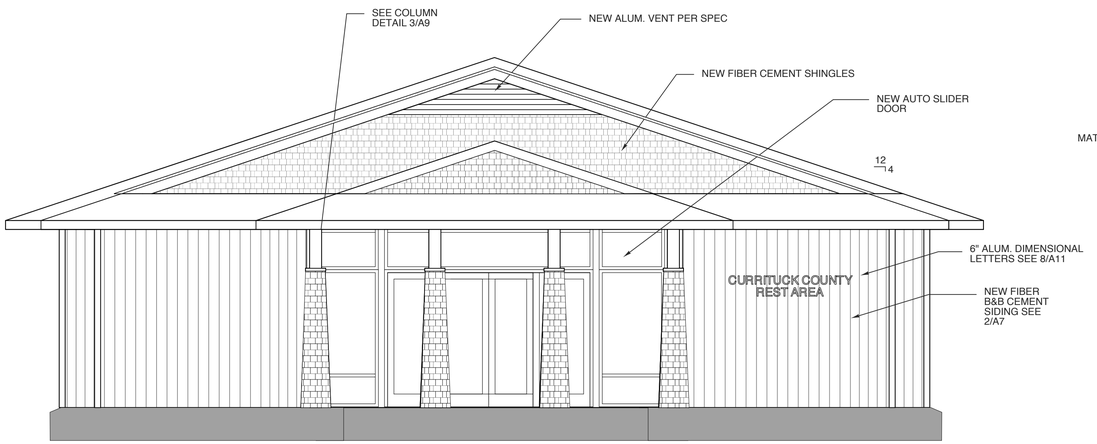
DRAWING TITLE
ROOF PLAN & RCP

SHEET 8 OF 15

A5.1

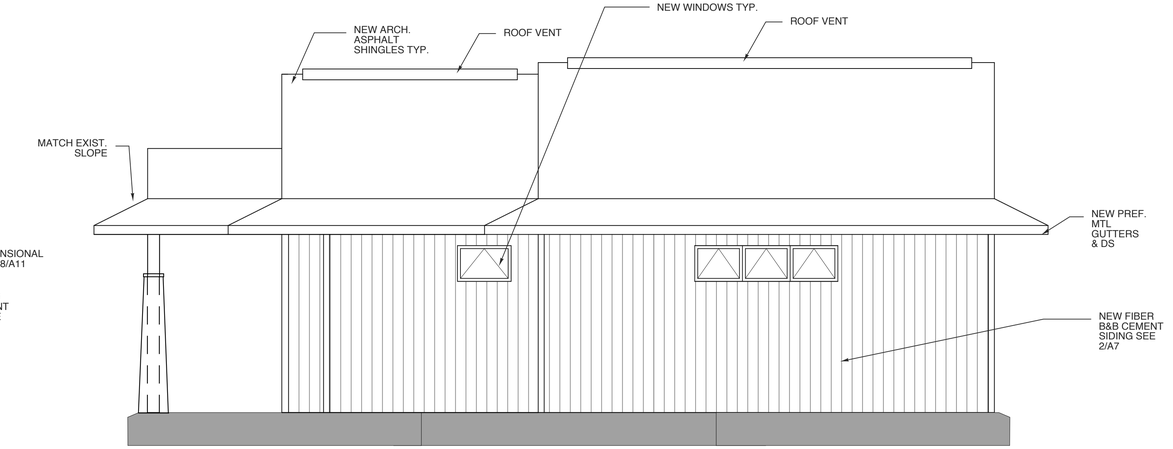
PLOT DATE 10/27/26
REVISION 00/00/00

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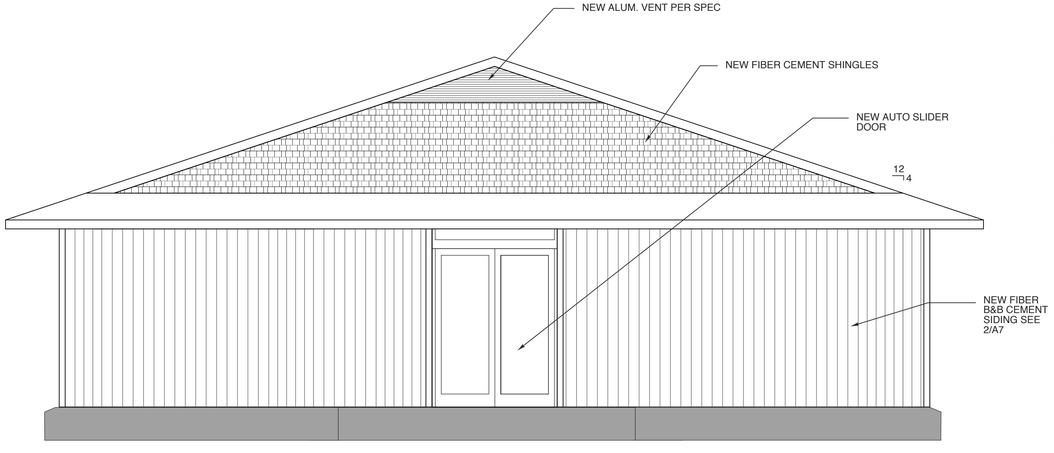
1 EAST ELEVATION
SCALE: 1/4" = 1'-0"

5' 0 1' 2' 3' 4' 5'



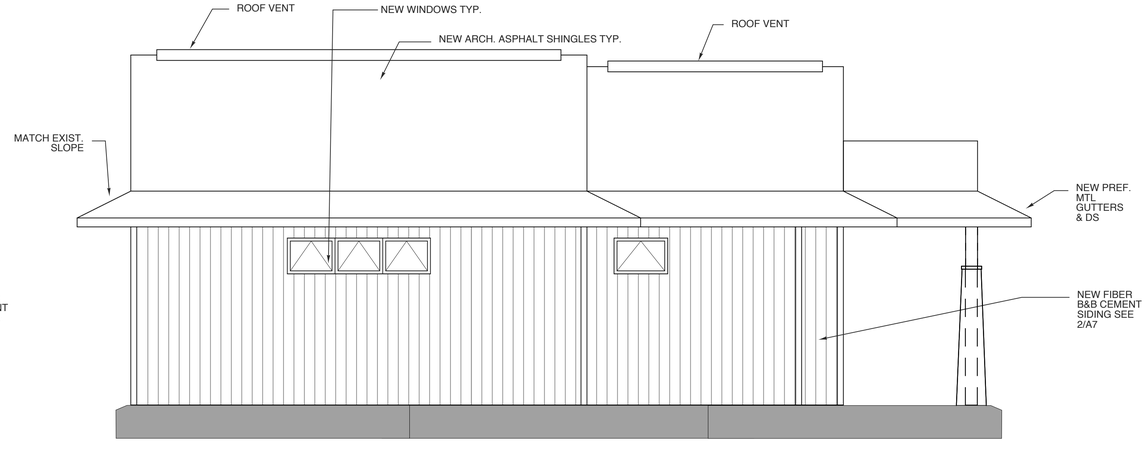
2 NORTH ELEVATION
SCALE: 1/4" = 1'-0"

5' 0 1' 2' 3' 4' 5'



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

5' 0 1' 2' 3' 4' 5'



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

5' 0 1' 2' 3' 4' 5'

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RALEIGH, NC

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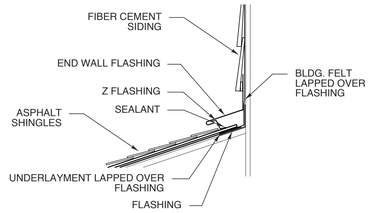
DRAWING TITLE
EXT. ELEVATIONS

SHEET 10 OF 15

A6

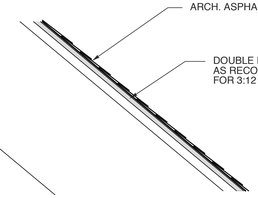
PLOT DATE 10/27/26
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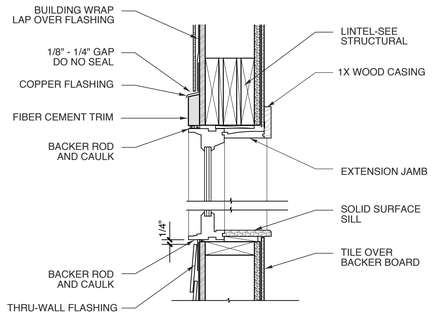


ALL ELEMENTS TO BE INSTALLED PER MANF. REQ.

5 FLASHING @ transition
SCALE: 1 1/2" = 1'-0"

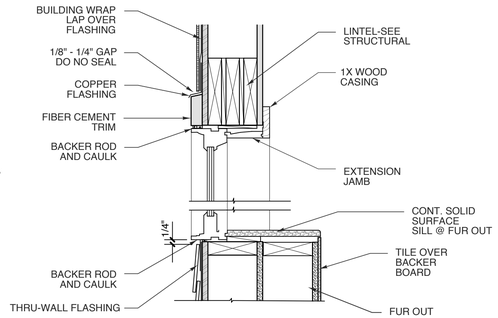


4 TYPICAL SHINGLE ROOF
SCALE: 1 1/2" = 1'-0"



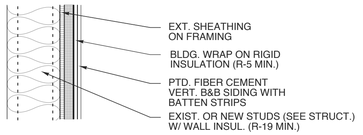
HEAD/SILL AT TILE

3 WINDOW DETAILS
SCALE: 1-1/2" = 1'-0"

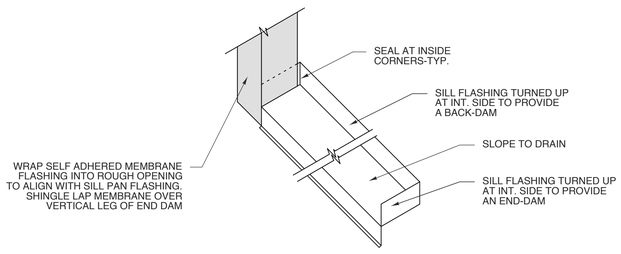


HEAD/SILL AT FUR OUT

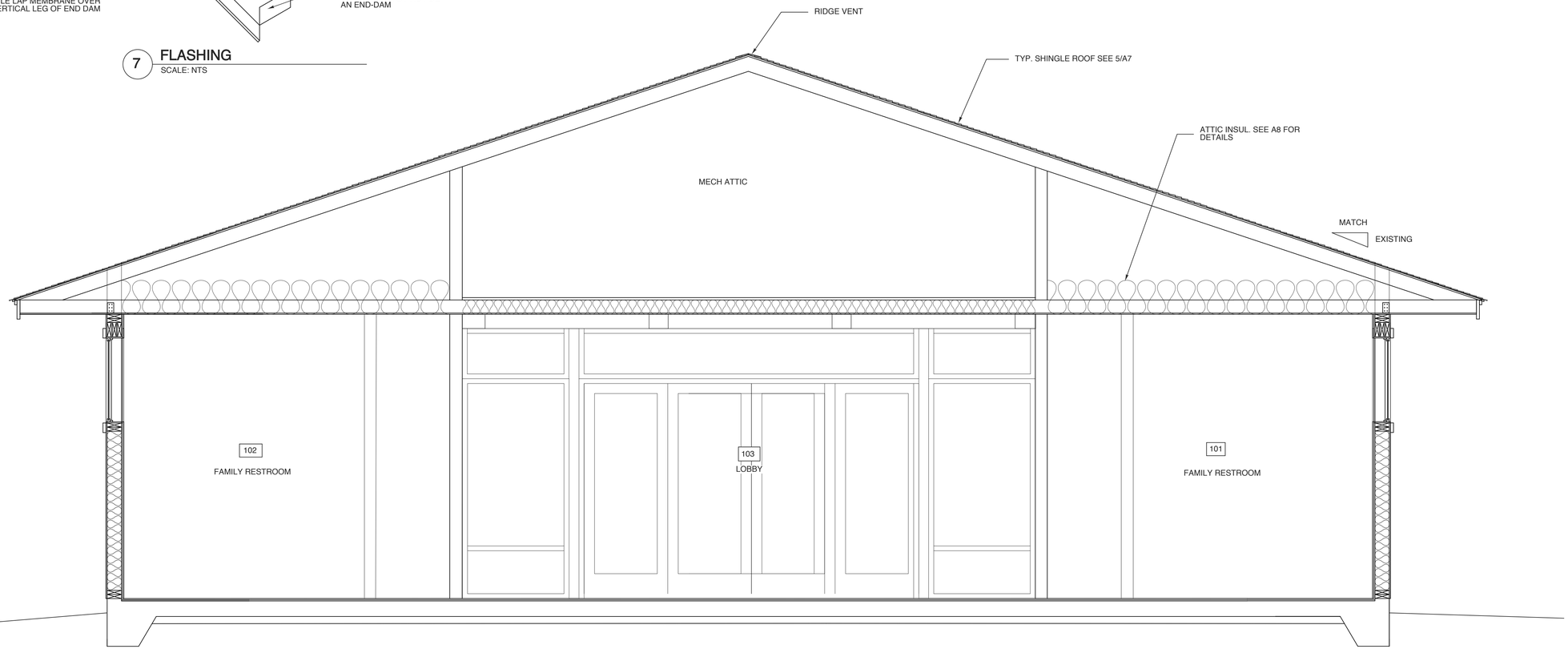
2 WINDOW DETAILS
SCALE: 1-1/2" = 1'-0"



6 TYP. B&B SIDING
SCALE: 1 1/2" = 1'-0"



7 FLASHING
SCALE: NTS



SEE STRUCTURAL FOR FOUNDATION AND FRAMING INFORMATION TYP.

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

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SC0# 26-31654-01A

PROJECT TITLE
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5330 CARATOKE HWY US 158
POPULAR BRANCH, NC

PROJECT NO.
2404a

DRAWING TITLE
BLDG SECTION & DETAILS

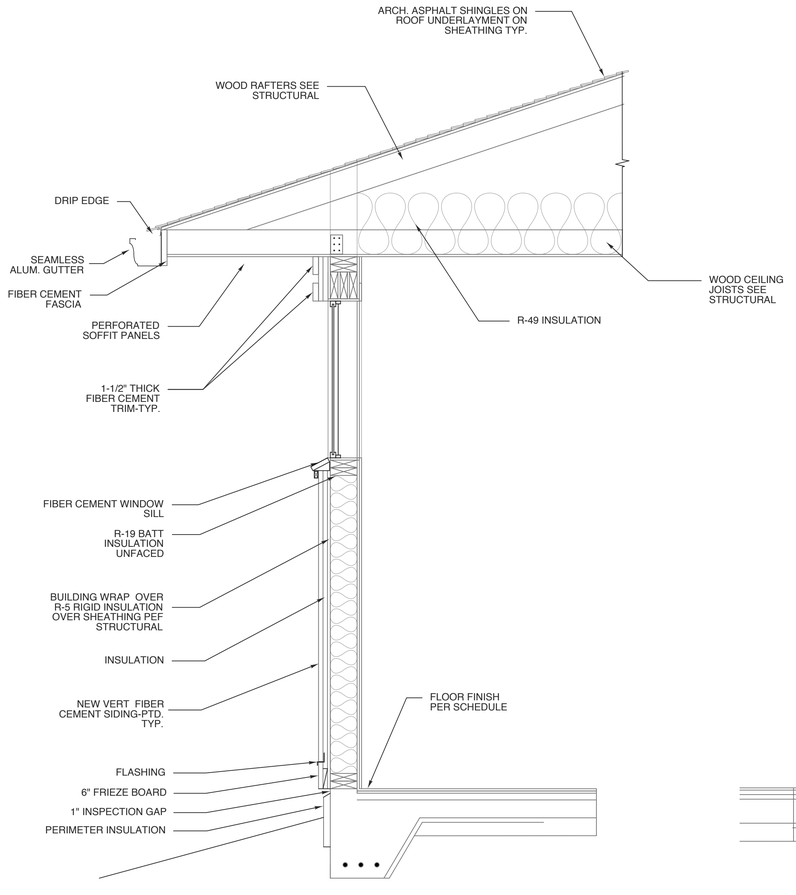
SHEET 11 OF 15

A7

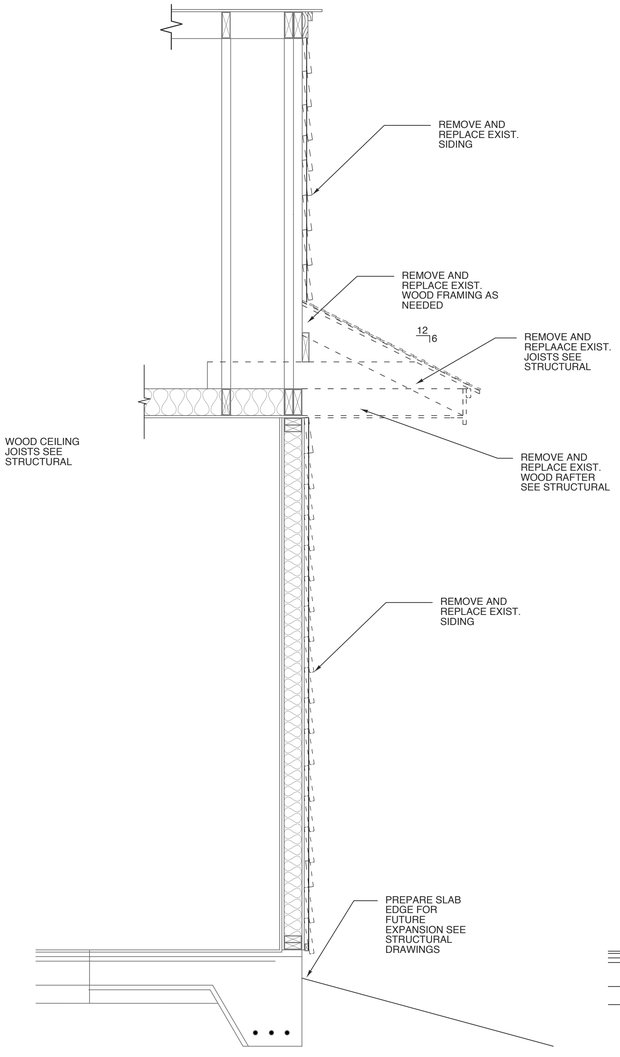
PLOT DATE	10/27/26
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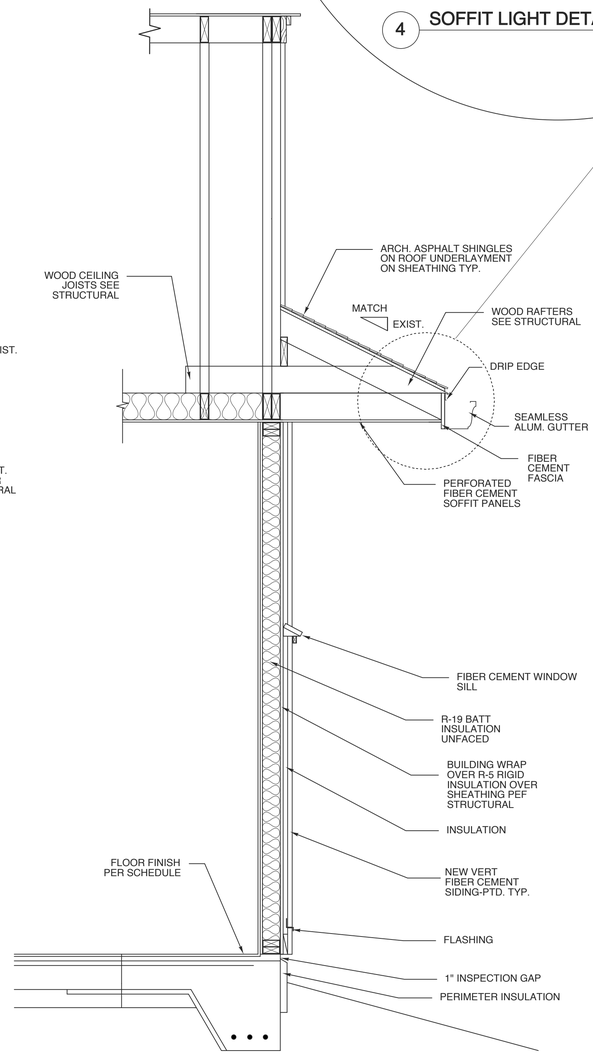
SEE STRUCTRAL DRAWINGS FOR FOUNDATION & FRAMING INFORMATION



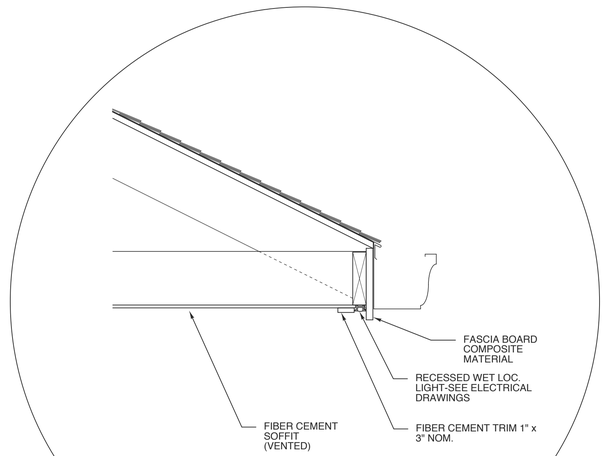
1 NEW WALL SECTION
SCALE: 3/4" = 1'-0"



2 TYP. DEMO WALL SECTION
SCALE: 3/4" = 1'-0"



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



4 SOFFIT LIGHT DETAIL

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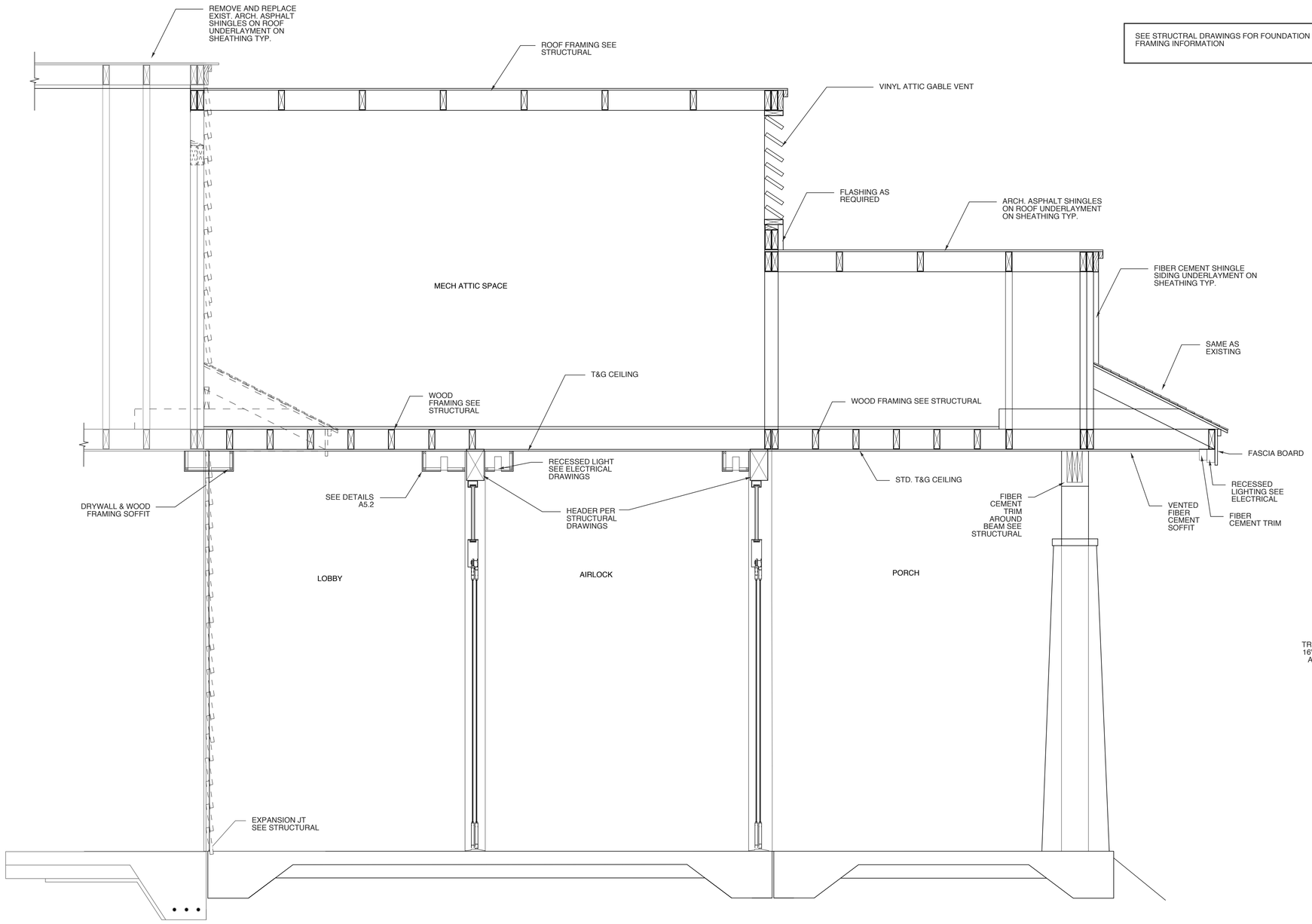
DRAWING TITLE
WALL SECTIONS

SHEET 12 OF 15

A8

PLOT DATE 10/27/26
REVISION ---

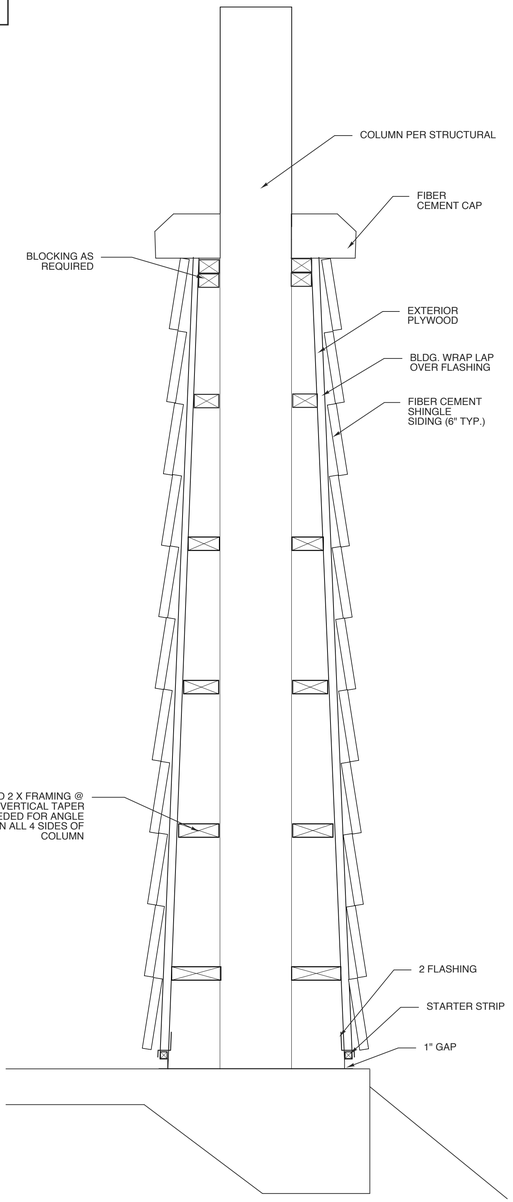
This original sheet is 24" x 36"; other dimensions indicate it has been altered.



SEE STRUCTRAL DRAWINGS FOR FOUNDATION & FRAMING INFORMATION

1 WALL SECTION

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



3 COLUMN DETAIL

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

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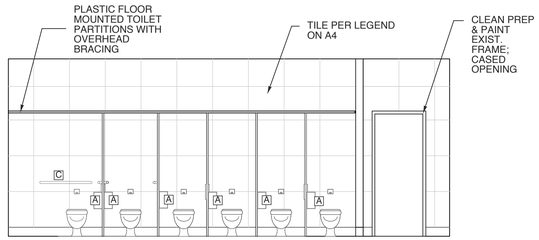
DRAWING TITLE
WALL SECTIONS

SHEET 13 OF 15

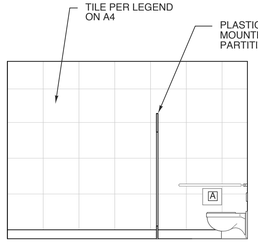
A9

PLOT DATE 10/27/26
REVISION ---

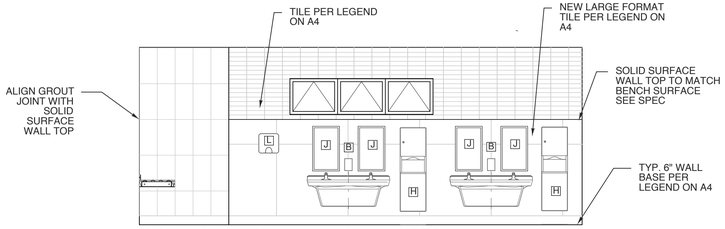
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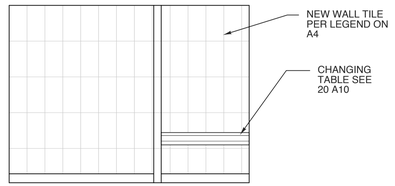
1 WOMENS ELEVATION RM.104
SCALE: 1/4" = 1'-0"



2 WOMENS ELEVATION RM.104
SCALE: 1/4" = 1'-0"

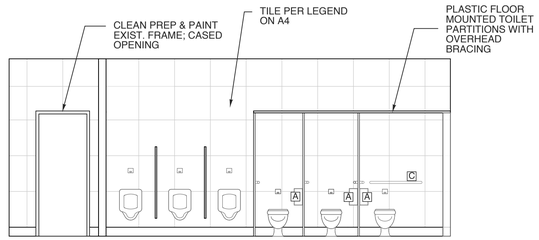


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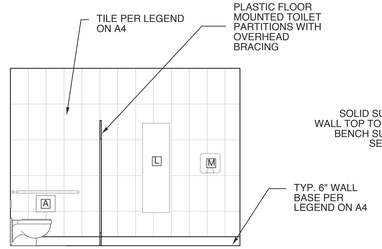


4 WOMENS ELEVATION RM. 104
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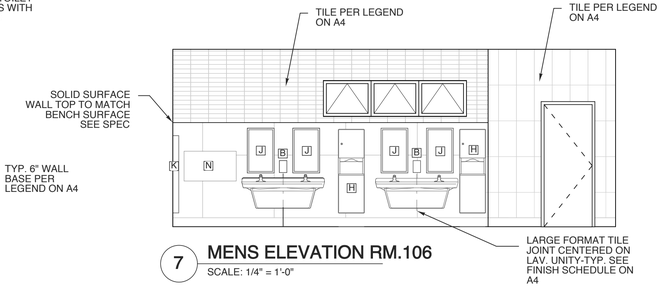
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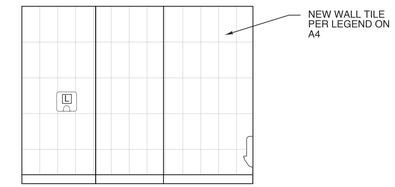
5 MENS ELEVATION RM.106
SCALE: 1/4" = 1'-0"



6 MENS ELEVATION RM.106
SCALE: 1/4" = 1'-0"

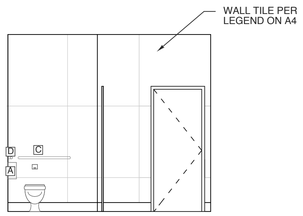


7 MENS ELEVATION RM.106
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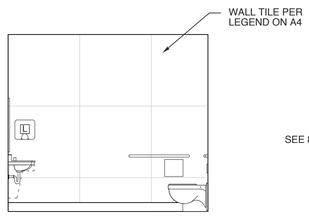


8 MENS ELEVATION RM.106
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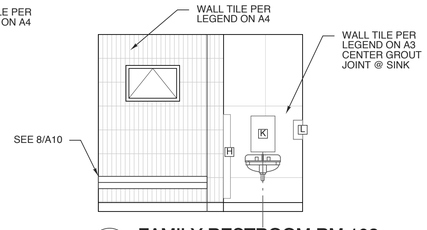
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11075
NORTH CAROLINA
RALEIGH, NC
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DN: E=GSUMMER@WSARCHITECTSPA.COM, C=US, O=W. S. ARCHITECTS, PA, CN=Ginger S. Summer
Date: 2026.10.27 14:32:42 -04'00'
10/27/2026



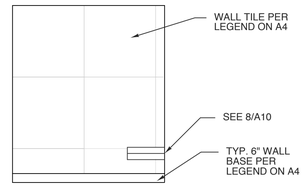
9 FAMILY RESTROOM RM.102
SCALE: 1/4" = 1'-0"



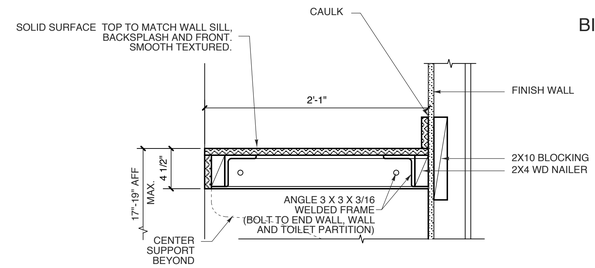
10 FAMILY RESTROOM RM.102
SCALE: 1/4" = 1'-0"



11 FAMILY RESTROOM RM.102
SCALE: 1/4" = 1'-0"

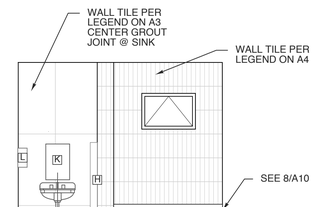


12 FAMILY RESTROOM RM.102
SCALE: 1/4" = 1'-0"

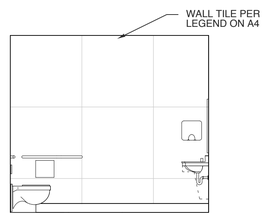


8 BENCH (FAMILY RM.)
SCALE: 1 1/2" = 1'-0"

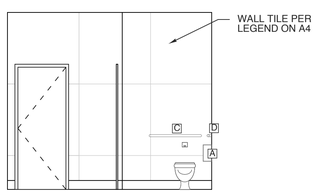
BID DOCUMENTS
10.27.26



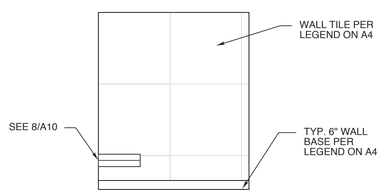
13 FAMILY RESTROOM RM.101
SCALE: 1/4" = 1'-0"



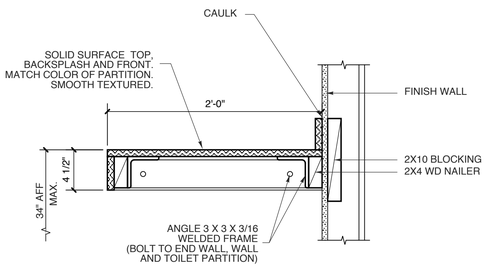
14 FAMILY RESTROOM RM.101
SCALE: 1/4" = 1'-0"



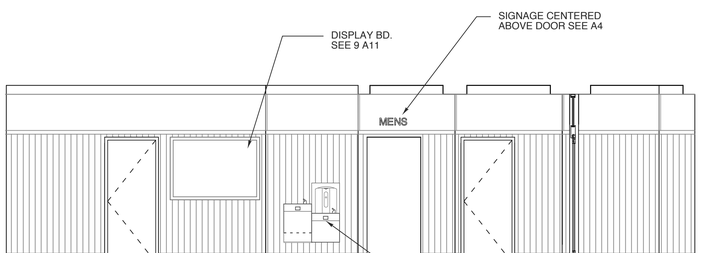
15 FAMILY RESTROOM RM.101
SCALE: 1/4" = 1'-0"



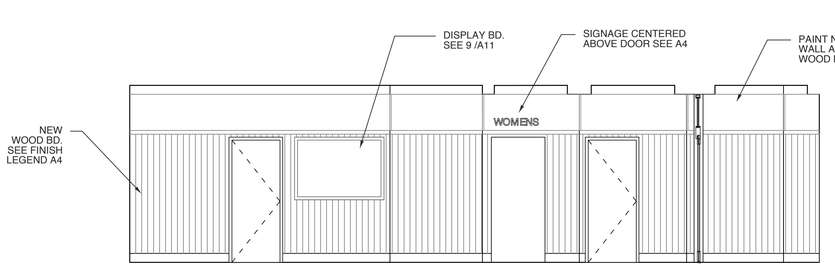
16 FAMILY RESTROOM RM.101
SCALE: 1/4" = 1'-0"



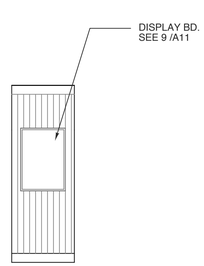
20 BUILT-IN TABLE (RESTROOM)
SCALE: 1 1/2" = 1'-0"



17 HALL-WAY ELEVATION
SCALE: 1/4" = 1'-0"



18 HALL-WAY ELEVATION OPPOSITE SIDE
SCALE: 1/4" = 1'-0"



19 ELEV @ TOILET ENTRANCE
SCALE: 1/4" = 1'-0"

SC0# 26-31654-01A

PROJECT TITLE
CURRITUCK COUNTY REST AREA
5330 CARATOKE HWY US 158
POPULAR BRANCH, NC

PROJECT NO.
2404A

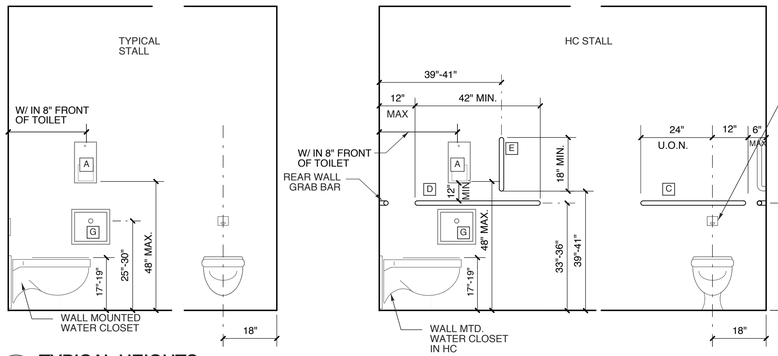
DRAWING TITLE
INTERIOR ELEVATIONS

SHEET 14 OF 15

A10

PLOT DATE 10/27/26
REVISION ---

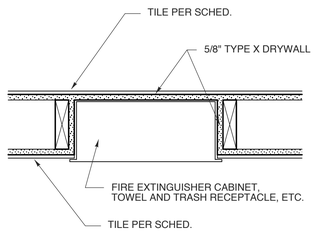
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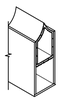
17 TYPICAL HEIGHTS

16 TYPICAL HEIGHTS

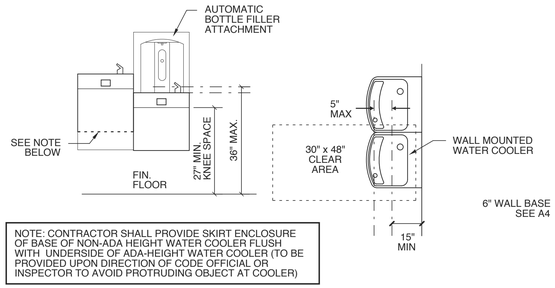
15 LAV. SECTION
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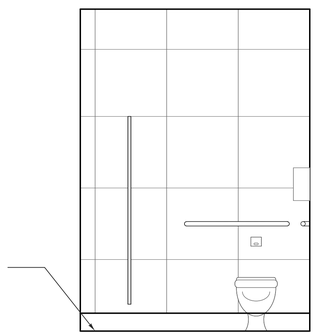
14 WALL MOUNTED ACCESSORIES
SCALE: 1 1/2"= 1'-0"



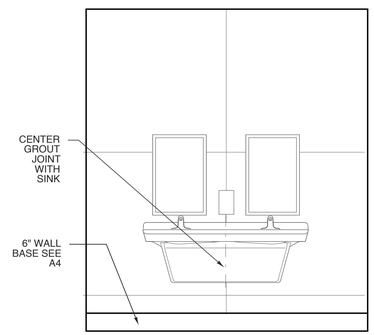
13 ANTI-GRIP HEADRAIL
SCALE: NTS



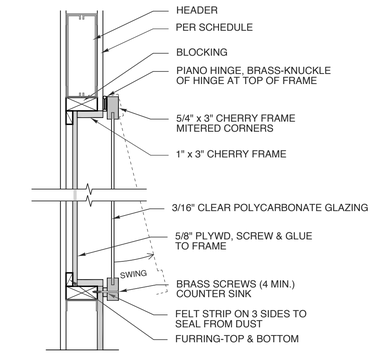
12 ACCESSIBLE WATER COOLER - FORWARD APPROACH
SCALE: NTS



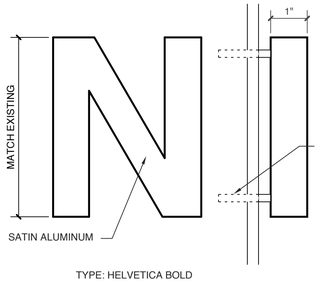
11 W. C. ELEV. TILE
SCALE: 1/2"= 1'-0"



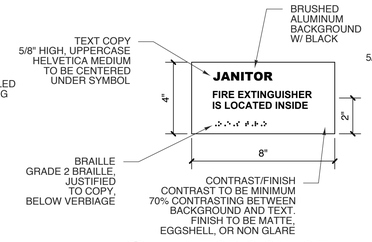
10 LAV. ELEV. PANELS
SCALE: 1/2"= 1'-0"



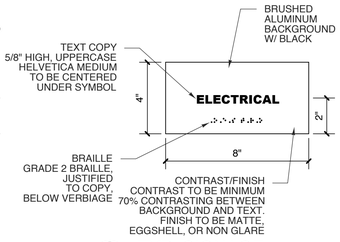
9 DISPLAY DETAIL
SCALE: 1 1/2"= 1'-0"



8 DIM. LETTERS
SCALE: 3" = 1'-0"



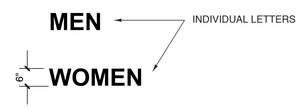
7 JANITOR SIGNAGE
SCALE: 3" = 1'-0"



6 TYP. SIGNAGE
SCALE: 3" = 1'-0"

SIGNAGE NOTES

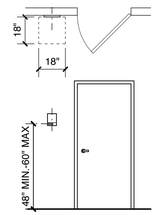
1. SIGNS TO BE CAST ALUMINUM
2. RAISED METAL BEAD BRAILE
3. BLACK SILK SCREENED LETTERING HELVETICA BOLD FONT. 3/8" TEXT HT.
4. INDIVIDUAL METAL LETTERS TO BE 1/4" THICK MILLED BRUSHED ALUMINUM PLATE
5. SIGNAGE SHALL COMPLY WITH ICC A117.1-2009, CH. 7
6. BOTTOM OF SIGN TO BE PER 4/A3



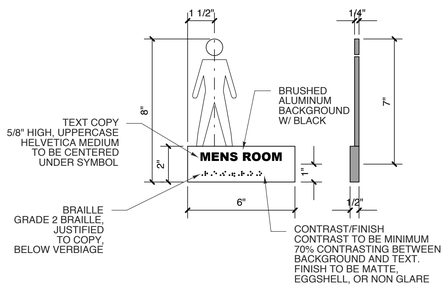
SIGNAGE NOTES

1. SIGNS TO BE CAST ALUMINUM
2. INDIVIDUAL METAL LETTERS TO BE 1/4" THICK MILLED BRUSHED ALUMINUM PLATE
3. MOUNTED OVER OPENING TO DUAL RESTROOMS

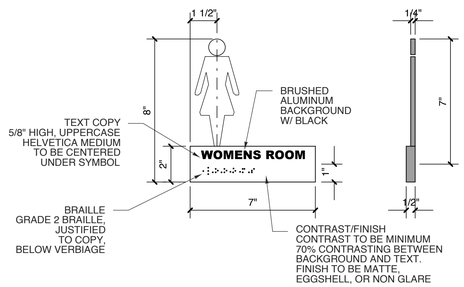
5 INT. INDIV. LETTERS
SCALE: 3" = 1'-0"



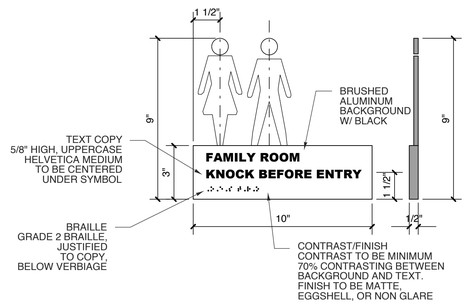
4 SIGNAGE PLACEMENT
SCALE: 1/4" = 1'-0"



3 MEN'S ROOM SIGNAGE
SCALE: 3" = 1'-0"



2 WOMEN'S ROOM SIGNAGE
SCALE: 3" = 1'-0"



1 FAMILY ROOM SIGNAGE
SCALE: 3" = 1'-0"

WEEKS SUMMER ARCHITECTS

W. S. ARCHITECTS, PA
3305-109 Durham Drive
Raleigh, North Carolina 27603
919.779.9797
www.wsarchitectspa.com

GINGER S. SUMMER
REGISTERED ARCHITECT
11075
NORTH CAROLINA
RALEIGH, NC
Digitally signed by Ginger S. Summer
DN: E9D2834562C422...
10/27/2026

BID DOCUMENTS
10.27.26

SC0# 26-31654-01A

PROJECT TITLE
CURRITUCK COUNTY REST AREA
5330 CARATOKE HWY US 158
POPULAR BRANCH, NC

PROJECT NO.
2404a

DRAWING TITLE
DETAILS

SHEET 15 OF 15

A11

PLOT DATE 10/27/26
REVISION 00/00/00

This original sheet is 22" x 34"; other dimensions indicate it has been altered.

GENERAL STRUCTURAL NOTES

GENERAL

THESE DRAWINGS, AS INSTRUMENTS OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF LYSAGHT & ASSOCIATES, P.A., FOR USE SOLELY WITH THIS PROJECT AND SHALL NOT BE REPRODUCED FOR OTHER PURPOSES.

THE PROFESSIONAL ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS IS THE PROJECT STRUCTURAL ENGINEER-OF-RECORD (SER) WHO BEARS LEGAL RESPONSIBILITY FOR THE PERFORMANCE OF THE STRUCTURAL FRAMING RELATING TO PUBLIC HEALTH, SAFETY, AND WELFARE. NO OTHER PARTY, WHETHER OR NOT A PROFESSIONAL ENGINEER, MAY COMPLETE, CORRECT, REVISE, DELETE, OR ADD TO THESE CONSTRUCTION DOCUMENTS OR PERFORM INSPECTIONS OF THE WORK WITHOUT THE WRITTEN PERMISSION OF THE SER.

USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH JOB SPECIFICATIONS, AND OTHER DRAWINGS.

SECTIONS AND DETAILS SHOWN SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.

ALL NON-STRUCTURAL ELEMENTS INDICATED ON THE STRUCTURAL DRAWINGS HAVE BEEN SHOWN IN GENERAL RELATIONSHIP TO THE STRUCTURAL ELEMENTS. THEY SHALL NOT BE ASSUMED TO BE ACCURATE AND REFERENCE MUST BE MADE TO THE APPROPRIATE CONSULTANT(S) PLANS AND SPECIFICATIONS.

CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD AND TAKE ALL NECESSARY FIELD MEASUREMENTS.

CONTRACTOR SHALL TAKE SUCH ACTION AS NECESSARY TO PREVENT MOVEMENT OF OR DAMAGE TO THE ADJACENT STRUCTURE DURING CONSTRUCTION.

THE STRUCTURE SHOWN ON THESE DRAWINGS IS STRUCTURALLY SOUND ONLY IN ITS COMPLETED FORM. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BRACING TO STABILIZE THE BUILDING DURING CONSTRUCTION.

WHENEVER EXISTING CONSTRUCTION IS RENOVATED, THERE IS LIKELY SOME COSMETIC DEFECTS DUE TO THE AGE OF THE BUILDING THAT WILL NOT BE CORRECTED DURING THE RENOVATION. THESE DEFECTS INCLUDE SAGGING FLOORS, MINOR CRACKS IN MASONRY WALLS, CRACKS IN SHEETROCK OR PLASTER THAT IS LEFT IN PLACE, ETC. THIS IS TO BE EXPECTED BY THE OWNER, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

SCOPE OF STRUCTURAL ENGINEERING SERVICES

LYSAGHT & ASSOCIATES, P.A. HAS PERFORMED THE STRUCTURAL DESIGN AND PREPARED THE STRUCTURAL WORKING DRAWINGS FOR THIS PROJECT. "CONSTRUCTION REVIEW" SERVICES ARE ALSO A PART OF OUR CONTRACT WHICH INCLUDE REVIEW OF SHOP DRAWINGS AND SUBMITTALS AND A MAXIMUM OF (3) SITE VISITS.

PORTIONS OF THE STRUCTURAL DESIGN (AS NOTED ON THE DRAWINGS AND IN THESE NOTES) ARE THE RESPONSIBILITY OF THE MATERIAL SUPPLIERS. SHOP DRAWINGS FOR EACH OF THE STRUCTURAL COMPONENTS MUST BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION AND ERECTION.

THE STRUCTURAL ENGINEER IS RESPONSIBLE FOR THE DESIGN OF THE PRIMARY STRUCTURAL SYSTEM, EXCEPT FOR THE COMPONENTS NOTED ABOVE. RESPONSIBILITY FOR ANY SECONDARY STRUCTURAL AND NON-STRUCTURAL SYSTEMS NOT SHOWN ON THE STRUCTURAL PLANS RESTS WITH SOMEONE OTHER THAN THE STRUCTURAL ENGINEER.

FLAT ROOFS MUST HAVE CONTROLLED DRAINAGE PROVISIONS AND SHALL BE EQUIPPED WITH A SECONDARY DRAINAGE SYSTEM AT A HIGHER ELEVATION WHICH PREVENTS PONDING ON THE ROOF ABOVE THAT ELEVATION. THE SECONDARY DRAINAGE MUST BE SET SO THAT A 4" MAXIMUM DEPTH OF WATER WILL POND ON THE ROOF DURING THE DESIGN RAINSTORM. THE DESIGN OF THE ROOF DRAINAGE, SECONDARY DRAINAGE AND/OR OVERFLOW SCUPPERS IS BEYOND THE SCOPE OF THE STRUCTURAL ENGINEER'S SERVICES.

THE STRUCTURAL ENGINEER HAS NOT DONE A SUBSURFACE INVESTIGATION (HE IS NOT A SOILS SPECIALIST). THE FOUNDATION DESIGN IS BASED UPON AN ASSUMED ALLOWABLE BEARING PRESSURE AS SHOWN IN THE "FOUNDATION" STRUCTURAL NOTES. THIS ALLOWABLE BEARING PRESSURE MUST BE VERIFIED BY THE CONTRACTOR OR OWNER. IF PROBLEMS ARE ENCOUNTERED, A SOILS ENGINEER SHOULD BE RETAINED TO EVALUATE THE CONDITIONS AND RECOMMEND THE APPROPRIATE FOUNDATION SYSTEM.

THE STRUCTURAL ENGINEER HAS NOT DESIGNED THE STRUCTURAL SLAB CONSTRUCTION FOR CONCENTRATED LOADS DUE TO VEHICULAR OR FORKLIFT TRAFFIC. THE SLAB IS DESIGNED FOR UNIFORM LOADING AS NOTED IN THE "DESIGN LOADS" PORTION OF THE STRUCTURAL NOTES AND CONCENTRATED LOADS IN ACCORDANCE WITH REQUIREMENTS OF THE BUILDING CODE.

THE STRUCTURAL ENGINEER HAS NOT DESIGNED THE STRUCTURE FOR SPECIFIC VIBRATION LIMITS. VIBRATION LIMITATIONS ARE BASED ON STANDARD ENGINEERING PRACTICES AND PAST EXPERIENCE WITH SIMILAR CONSTRUCTION.

THE STRUCTURAL ENGINEER HAS NOT DESIGNED THE STRUCTURE TO SUPPORT DYNAMIC LOADS FROM VIBRATING MACHINERY OR EQUIPMENT. ALL VIBRATING EQUIPMENT AND MACHINERY MUST BE ISOLATED FROM THE STRUCTURE.

THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK; NOR WILL HE BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

FIELD MEASUREMENTS AND THE VERIFICATION OF FIELD DIMENSIONS ARE NOT PART OF THE STRUCTURAL ENGINEER'S RESPONSIBILITY. THE CONTRACTOR MUST CHECK ALL (ASSUMED) EXISTING CONDITIONS SHOWN ON THESE DRAWINGS FOR ACCURACY AND NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES.

ABBREVIATIONS

AB	ANCHOR BOLT	NTS	NOT TO SCALE
AFF	ABOVE FINISH FLOOR	O.C.	ON CENTER
B/B	BACK TO BACK	P.A.F.	PONDER-ACTUATED FASTENER
BCX	BOTTOM CHORD EXTENSION	P.T.	PRESSURE-TREATED
C/C	CENTER TO CENTER	SER	STRUCT. ENGINEER OF RECORD
CJ	CONTROL / CONSTR. JOINT IN SLAB	S.P.F.	SPRUCE-PINE-FIR
DJ	DOUBLE JOIST	S.Y.P.	SOUTHERN YELLOW PINE
EJ	EXPANSION JOINT	T.O.F.	TOP OF FOOTING
EOS	EDGE OF SLAB	T.O.S.	TOP OF STEEL
E.W.	EACH WAY	T.O.J.	TOP OF JOIST
JBE	JOIST BEARING ELEVATION	U.N.O.	UNLESS NOTED OTHERWISE
MCJ	MASONRY CONTROL JOINT	W.W.F.	WELDED WIRE FABRIC

CODE

NORTH CAROLINA STATE BUILDING CODE - 2018 EDITION (IBC 2015)
STRUCTURAL LOADING PER ASCE 7-2016

BLDG RISK CATEGORY (NCSBC TABLE 1604.5) II

DESIGN LOADS

ROOF DEAD LOAD	15	PSF
ROOF LIVE LOAD	20	PSF
MECHANICAL PLATFORM LIVE LOAD	60	PSF
FLOOR DEAD LOAD	50	PSF
FLOOR LIVE LOAD (Uniform)	100	PSF
FLOOR LIVE LOAD (Concentrated)	2000 LBS	
SNOW LOAD DATA :		
GROUND SNOW LOAD	10	PSF
SNOW EXPOSURE FACTOR	1.0	
SNOW LOAD IMPORTANCE FACTOR	1.0	
THERMAL FACTOR	1.1	
FLAT ROOF SNOW LOAD	10	PSF
ROOF SLOPE FACTOR	1.0	
PITCHED ROOF SNOW LOAD	10	PSF
WIND LOAD DATA :		
ULTIMATE DESIGN WIND SPEED, Vult	128	MPH
WIND EXPOSURE	B	
INTERNAL PRESSURE COEFFICIENTS	+0.18, -0.18	
WIND PRESSURE FOR COMPONENTS / CLADDING	PER ASCE 7-16	
SEISMIC LOAD DATA :		
SEISMIC IMPORTANCE FACTOR	1	1.00
MAPPED SPECTRAL RESPONSE ACCELERATION	Ss	.072
MAPPED SPECTRAL RESPONSE ACCELERATION	S1	0.038
SITE CLASS		D
SEISMIC DESIGN CATEGORY		A
BASIC STRUCTURAL SYSTEM	Bearing Wall System	
LATERAL DESIGN CONTROL	WIND	

FOUNDATIONS

ALL FOOTINGS SHALL REST ON SOIL CAPABLE OF SAFELY SUPPORTING 2,000 PSF. CONTACT STRUCTURAL ENGINEER IF UNSATISFACTORY SUBSURFACE CONDITIONS ARE ENCOUNTERED.

FOOTINGS SHALL BE CARRIED TO A LOWER ELEVATION THAN THOSE INDICATED ON THESE DRAWINGS IF NECESSARY TO REACH FIRM UNDISTURBED SOIL, AND SHALL BE COORDINATED WITH GEOTECHNICAL REPORT, IF REPORT IS PROVIDED FOR PROJECT. ANY INFORMATION IN THE GEOTECHNICAL REPORT SHALL CONTROL.

THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 16" BELOW FINISHED GRADE UNLESS NOTED OTHERWISE.

SLAB ON GRADE SHALL BE FOUNDED ON STABLE NATURAL SOIL OR CONTROLLED COMPACTED FILL. UNLESS NOTED OTHERWISE IN GEOTECHNICAL REPORT, THE MINIMUM BEARING CAPACITY OF THE SUBGRADE SHALL BE 2,000 PSF.

ALL FILL SHALL BE PLACED IN 8" MAXIMUM LOOSE LIFTS AND SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D-698 (STANDARD PROCTOR METHOD). THIS REQUIREMENT SHOULD BE INCREASED TO 98 PERCENT OF ASTM D-698 IN THE FINAL FOOT BENEATH FOOTINGS, FLOOR SLABS, AND PAVEMENTS.

CONCRETE

CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED IN ACCORDANCE WITH ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", AND ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE". ANY ADMIXTURES MUST BE APPROVED BY THE STRUCTURAL ENGINEER.

ADMIXTURES CONTAINING CHLORIDE SALTS ARE NOT PERMITTED.

MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE SHALL BE:

FOOTINGS	3000 PSI
SLABS ON GRADE	4,000 PSI

USE NORMAL WEIGHT CONCRETE FOR FOOTINGS AND SLABS ON GRADE. SEE SLAB ON GRADE NOTES FOR ADDITIONAL REQUIREMENTS.

CONCRETE EXPOSED TO EXTERIOR CONDITIONS SHALL BE AIR-ENTRAINED WITH A TOTAL AIR CONTENT OF 6 PERCENT (+/- 1.5%).

SLAB-ON-GRADE CONSTRUCTION

PLACE FLOOR SLAB ON A WELL COMPACTED BASE. THE SUBGRADE SHALL BE GRANULAR, NON-EXPANSIVE SOIL (THAT IS, WITHOUT CLAY), WHICH HAS BEEN COMPACTED TO AT LEAST 95%, EXCEPT 98% FOR FINAL FOOT, AND VERIFIED BY ON-SITE TESTING.

TYPICAL SLAB ON GRADE SHALL BE 4" THICK, NORMAL WEIGHT CONCRETE. REINFORCE SLAB ON GRADE WITH WELDED WIRE FABRIC (W.W.F.) PER DETAILS IN SHEETS, NOT ROLLS. PLACE W.W.F. 1.5" BELOW TOP OF SLAB, TO LIMIT THE RISK OF BEING CUT BY THE SAW JOINTS, WHICH ARE USUALLY 1/4 THE DEPTH OF THE SLAB.

CONCRETE STRENGTH SHALL BE THE STRENGTH, AS NOTED IN GENERAL NOTES, AT 28 DAYS. GENERAL CONTRACTOR SHALL USE WATER REDUCING ADMIXTURES TO REDUCE WATER, IF NECESSARY, TO INCREASE WORKABILITY AND DECREASE SHRINKAGE CRACKS.

USE 6% AIR ENTRAINMENT ON EXTERIOR SLABS. DO NOT USE AIR ENTRAINMENT ON INTERIOR SLABS (3% MAXIMUM AIR ENTRAINMENT).

CRACK CONTROL JOINTS SHALL BE PLACED IN SLABS ON GRADE AT A MAXIMUM SPACING OF 12'-0" O.C. FOR 4" THICK SLAB, UNLESS NOTED OTHERWISE. THESE CONTROL JOINTS SHALL BE BY THE GENERAL CONTRACTOR, IN ACCORDANCE WITH ACI 318. ACI STANDARD PRACTICE IS TO PLACE JOINTS 4 - 8 HOURS AFTER CONCRETE POUR.

LIGHTLY DAMPEN THE SUB-GRADE BEFORE PLACING CONCRETE TO PREVENT THE SUB-GRADE FROM ABSORBING WATER FROM CONCRETE MIX. APPLY WATER AT NEARLY THE SAME RATE IT SOAKS INTO THE SUB-GRADE SURFACE.

STEEL TROWEL THE CONCRETE TO A SHINY FINISH WHICH RESULTS IN A HARD, DENSE SURFACE. SEE ARCHITECTURAL SPECIFICATIONS FOR ALL FINISH REQUIREMENTS.

DURING HOT WEATHER, USE A FOG SPRAY TO KEEP THE SURFACE DAMP BEFORE APPLYING CURING COMPOUND.

START CURING AS SOON AS THE FINISHERS ARE DONE. APPLY THE CURING COMPOUND IN TWO COATS AT RIGHT ANGLES TO EACH OTHER AND NOT MORE THAN 300 SQUARE FEET PER GALLON, ABOUT 15 MINUTES APART.

REINFORCING STEEL

ALL DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE LATEST "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315.

REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60. CLEAR CONCRETE COVER OVER BARS SHALL BE 3" FOR FOOTINGS.

PROVIDE CORNER BARS AT ALL FOOTING STEPS AND CORNERS. BARS SHALL BE A MINIMUM OF 2'-6" LONG AND SHALL HAVE THE SAME SIZE AND SPACING AS HORIZONTAL REINFORCING.

LAP ALL SPLICES IN CAST-IN-PLACE CONCRETE AS SPECIFICALLY CALLED FOR, BUT AT LEAST 50 BAR DIAMETERS.

PROVIDE DOWELS IN WALL FOOTINGS EQUIVALENT IN SIZE AND NUMBER TO VERTICAL STEEL EXTENDING 24 BAR DIAMETERS INTO FOOTING (UNLESS A HOOKED BAR IS PROVIDED) AND 12 BAR DIAMETERS INTO WALL, UNLESS NOTED OTHERWISE.

SUBMIT SHOP DRAWINGS TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION.

SOLID WOOD FRAMING, HEADERS AND PLYWOOD

ALL SOLID WOOD FRAMING SHALL COMPLY WITH THE NATIONAL FOREST PRODUCTS ASSOCIATION "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION."

ALL SOLID FRAMING SHALL BE SPRUCE-PINE-FIR #1 (NLGA grading rules) UNLESS NOTED OTHERWISE ON THE PLANS.

PLYWOOD SHALL CONFORM TO THE AMERICAN PLYWOOD ASSOCIATION "PLYWOOD DESIGN SPECIFICATION." PLYWOOD SHALL BE CDX (INT). PLYWOOD CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APA "DESIGN/CONSTRUCTION GUIDE - RESIDENTIAL AND COMMERCIAL".

ALL MEMBERS SHALL BE FRAMED, ANCHORED, TIED AND BRACED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE AND THE NORTH CAROLINA STATE BUILDING CODE.

WHEN WOOD JOISTS ARE CLOSER THAN 18", OR WOOD GIRDERS ARE CLOSER THAN 12", TO EXPOSED GROUND IN THE CRAWLSPACE, THEY SHALL BE PRESERVATIVE TREATED.

ALL JOINTS OF SOLID WOOD GIRDERS AND THE OUTSIDE MEMBERS OF BUILT-UP GIRDERS SHALL BE MADE OVER PIER OR COLUMN SUPPORTS.

MICROLLAM HEADERS (LVL'S) ARE MANUFACTURED BY Weyerhauser iLevel Trus Joist. (THE CONTRACTOR MAY SUBSTITUTE EQUIVALENT HEADERS IF PROPERLY DESIGNED BY THE MANUFACTURER.) MICRO=LAM HEADERS ARE ALWAYS DOUBLED AND MUST BE NAILED TOGETHER WITH 2 ROWS OF 10d NAILS @ 12" O.C. STAGGERED. PROVIDE CONTINUOUS LATERAL SUPPORT FOR TOP OF HEADER.

BUILT-UP STUD COLUMNS MUST BE SECURELY BOLTED AND NAILED TOGETHER TO ACT AS A COMPOSITE MEMBER. MAXIMUM BOLT SPACING IS 3'-0" WITH BOLTS AT BOTH ENDS.

WOOD SILLS SHALL BE ATTACHED TO CONTINUOUS FOUNDATION WALLS WITH 1/2" DIAMTER BOLTS SPACED NOT MORE THAN 6' APART AND WHICH ARE EMBEDDED AT LEAST 6" IN CONCRETE OR 15" IN MASONRY UNITS. ALTERNATE ATTACHMENT SYSTEMS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.

2 X 4 STUDS SPACED AT 12" O.C. SHALL BE USED FOR THE FIRST FLOOR OF THREE STORY BUILDINGS.

THE HEIGHT OF STUD BEARING WALLS IS LIMITED TO 10' BETWEEN LATERAL BRACING UNLESS NOTED OTHERWISE BY STRUCTURAL ENGINEER.

ALL WOOD IN CONTACT WITH MASONRY OR EXPOSED TO THE WEATHER SHALL BE PRESSURE PRESERVATIVE TREATED TO THE RETENTIONS REQUIRED BY SECTION 2303 OF THE BUILDING CODE.

NAIL SIZES SPECIFIED ON PLANS AND DETAILS ARE "STANDARD COMMON NAILS".

ALL WOOD FRAMING SHALL BE FASTENED IN ACCORDANCE WITH TABLE 2304.10.1 OF THE BUILDING CODE.

SIMPSON HANGER SCHEDULE

SIZE	HANGER	ALLOW. LOAD
2 X 6	LUS26, LUC26Z	710#
(2) 2 X 6	HU26-2, HUC26-2	1190#
(3) 2 X 6	HU26-3, HUC26-3	1190#
2 X 10	LUS210, LUC210Z	1150#
(2) 2 X 10	HU210-2, HUC210-2	2085#
(3) 2 X 10	HU210-3, HUC210-3	2085#
5 1/4 X 9 1/4 LVL	HGUS5.5/10, HUCQ610-SDS	5635#, 4680#

NOTES

1. LOAD VALUES SHOWN IN THE TABLE ABOVE DO NOT INCLUDE THE LOAD DURATION FACTOR. DO NOT USE CONCEALED HANGERS EXCEPT WHERE SPECIFICALLY CALLED OUT ON DRAWINGS

2. USE HANGER PER SCHEDULE ABOVE UNLESS SPECIFIED DIFFERENTLY ON FRAMING PLAN. ALL FLUSH WOOD/WOOD CONNECTIONS SHALL BE MADE WITH HANGERS. OTHER HANGERS MAY BE SUBSTITUTED FOR THOSE SHOWN IF DESIGN VALUES ARE EQUAL TO OR GREATER THAN THOSE IN THE TABLE.

3. INSTALL HANGERS PER MANUFACTURER'S SPECIFICATIONS.

4. USE STAINLESS STEEL HANGERS IF EXPOSED TO THE ELEMENTS OR IN CONTACT WITH TREATED WOOD. (GALVANIZED HANGERS MAY BE USED IN LIEU OF STAINLESS STEEL IF SPECIFICALLY RECOMMENDED BY SIMPSON AND THE TREATING COMPANY.)

6. AT SPECIAL CONDITIONS - SKEWED, PITCHED, ETC. - CONTRACTOR SHALL SELECT HANGER WITH AN ALLOWABLE LOAD GREATER THAN REACTION SHOWN IN SCHEDULE FOR FACE MOUNTED (NOT CONCEALED) HANGER.

WEEKS SUMMER ARCHITECTS

W. S. ARCHITECTS, PA
3305-109 Durham Drive
Raleigh, North Carolina
27603
919.779.9797
www.wsarchitectspa.com

LYSAGHT & ASSOCIATES structural engineers
120 St.Mary's Street
Raleigh, NC 27605
919.833.0495
LysaghtAssociates.com
Firm No. C-0621

NORTH CAROLINA PROFESSIONAL SEAL PE046123 ENGINEER MARK R. BLANKINSHIP

10/27/26

PROJECT TITLE
CURRITUCK COUNTY REST AREA
5330 US 158
POPULAR BRANCH, NORTH CAROLINA

PROJECT NO. 2204a
LA PROJECT NO. 15303

DRAWING TITLE
GENERAL STRUCTURAL NOTES

SHEET 01 OF 05

S1.0

PLOT DATE 10/27/26
REVISION -

This sheet is 24" x 36"
Filename: LA 15303 - Currituck City Rest Stop.dwg

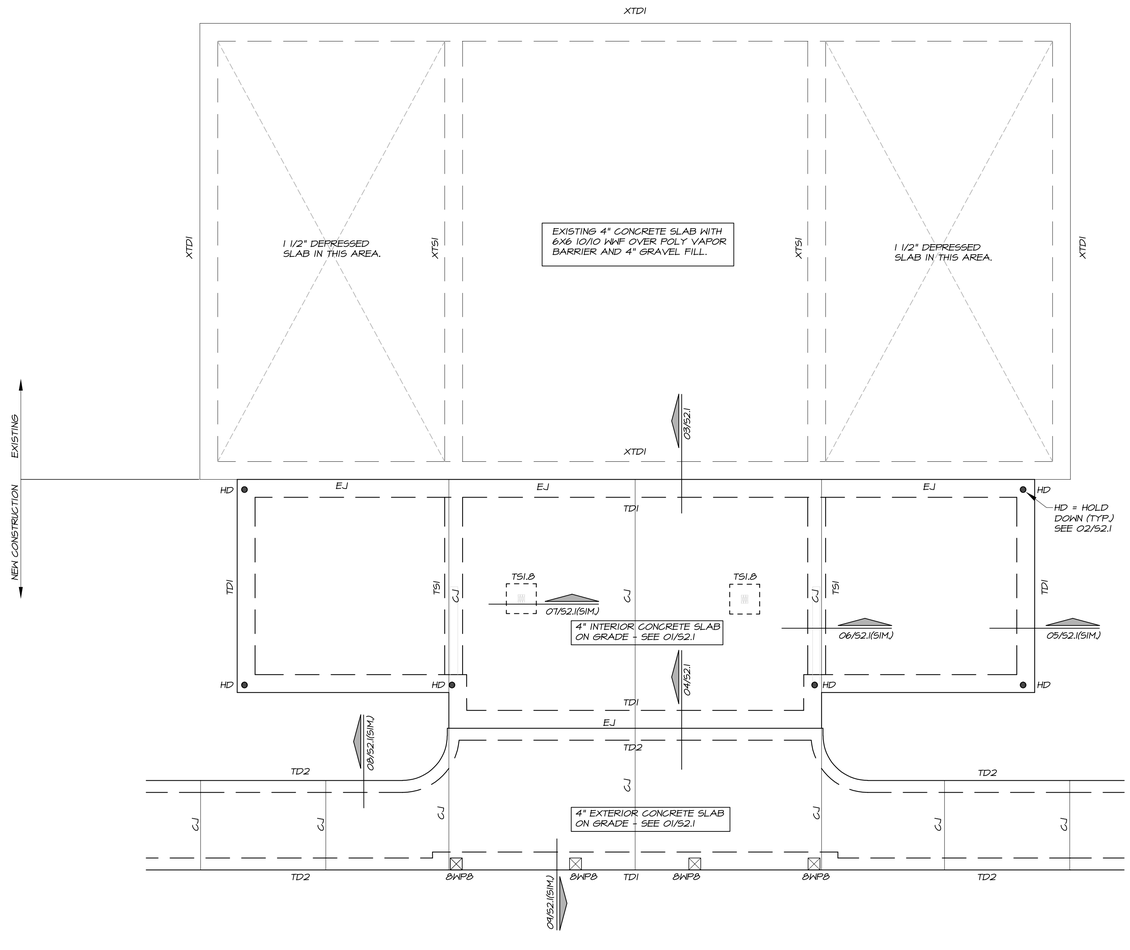
FOOTING SCHEDULE			
MK#	SIZE	REINFORCING	NOTES
XTDI	12" WIDE X 1'-8" DEEP	(3) #5'S CONT.	EXISTING TURNDOWN
XTSI	12" WIDE X 12" DEEP	(3) #5'S CONT.	EXISTING THICKENED SLAB
TDI	12" WIDE X 1'-8" DEEP	(3) #5'S CONT.	TURNDOWN
TD2	8" WIDE X 1'-0" DEEP	(2) #5'S CONT.	SIDEWALK TURNDOWN
TSI	12" WIDE X 12" DEEP	(3) #5'S CONT.	THICKENED SLAB
TSI.8	1'-8" X 1'-8" X 12" DEEP	(4) #5'S EACH WAY	THICKENED SLAB @ STUD COLUMNS

NOTES

1. REINFORCING TO BE LOCATED 3" CLEAR FROM BOTTOM OF FOOTING. SEE DETAILS ON S2.1

FOUNDATION PLAN NOTES

1. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN ON THIS PLAN.
2. ALL EXTERIOR STUD WALLS SHALL BE SHEATHED WITH 1/2" APA RATED PLYWOOD SHEATHING OR 7/16" OSB TO RESIST LATERAL LOADS ON THE STRUCTURE. PLYWOOD SHALL BE ATTACHED WITH 8d NAILS AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. ALL EDGES OF PLYWOOD WALL SHEATHING SHALL BE BLOCKED. SHEAR WALL NAILING PATTERN IS 4" O.C. AT EDGES AND 8" O.C. AT INTERMEDIATE SUPPORTS. SEE PLAN FOR LOCATION OF SHEAR WALLS (SW)
3. SLOPE EXTERIOR SLABS AWAY FROM BUILDING FOUNDATION WALLS FOR DRAINAGE.
4. HD = ● HOLD DOWN. ALL EXTERIOR WALLS ARE SHEAR WALLS. SEE PLAN FOR HOLD DOWN LOCATIONS AND 02/S2.1 FOR HOLD DOWN DETAIL.
5. SEE PLAN FOR CONTROL JOINTS (C.J) AND EXPANSION JOINTS (E.J). COORDINATE FINAL LOCATION OF CONTROL JOINTS WITH MINIMUM SPACING NOTES ON S1.0 AND ARCHITECTURAL PLANS.



01 FOUNDATION PLAN
1/4" SCALE

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W. S. ARCHITECTS, PA
3305-109 Durham Drive
Raleigh, North Carolina
27603
919.779.9797
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LYSAGHT & ASSOCIATES structural engineers
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10/27/26

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5330 US 158
POPULAR BRANCH, NORTH CAROLINA

PROJECT NO. 2204a
LA PROJECT NO. 15303

DRAWING TITLE
FOUNDATION PLAN

SHEET 02 OF 05

S1.1

PLOT DATE 10/27/26
REVISION -

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STUD COLUMN SCHEDULE

2 X 4 STUD WALLS			2 X 6 STUD WALLS		
MK#	SIZE	NOTES	MK#	SIZE	NOTES
4SC2	(2) 2 X 4	1, 2	6SC2	(2) 2 X 6	1, 2
4SC3	(3) 2 X 4	1, 2	6SC3	(3) 2 X 6	1, 2
4SC4	(4) 2 X 4	1, 2	6SC4	(4) 2 X 6	1, 2

NOTES

1. BUILT-UP STUD COLUMNS SHALL BE SECURELY NAILED TOGETHER TO ACT AS A COMPOSITE MEMBER. USE (2) 12d NAILS FOR EACH STUD AT 10" O.C.

2. SEE HEADER SCHEDULE FOR JACK AND KING STUDS REQUIRED AT EACH END OF HEADER.

WOOD COLUMN SCHEDULE

MK#	SIZE	NOTES
4WP4	PT 4 X 4	1, 2
8WP8	PT 8 X 8	1, 2

NOTES

1. WOOD COLUMNS SHALL BE PRESERVATIVE TREATED.
2. SIZES ARE NOMINAL

WOOD HEADER SCHEDULE

MK#	WOOD SIZE	MAX SPAN	NOTES
H1	(3) 2 X 8	6'-0"	1,2

NOTES

1. PROVIDE ONE STUD UNDER AND TWO FULL HEIGHT STUDS BEYOND EACH END OF H1 AND H2.

2. USE #2 GRADE S-P-F FOR SOLID HEADERS. SIZES SHOWN ARE NOMINAL.

3. CONTACT STRUCTURAL ENGINEER FOR WIDER OPENINGS.

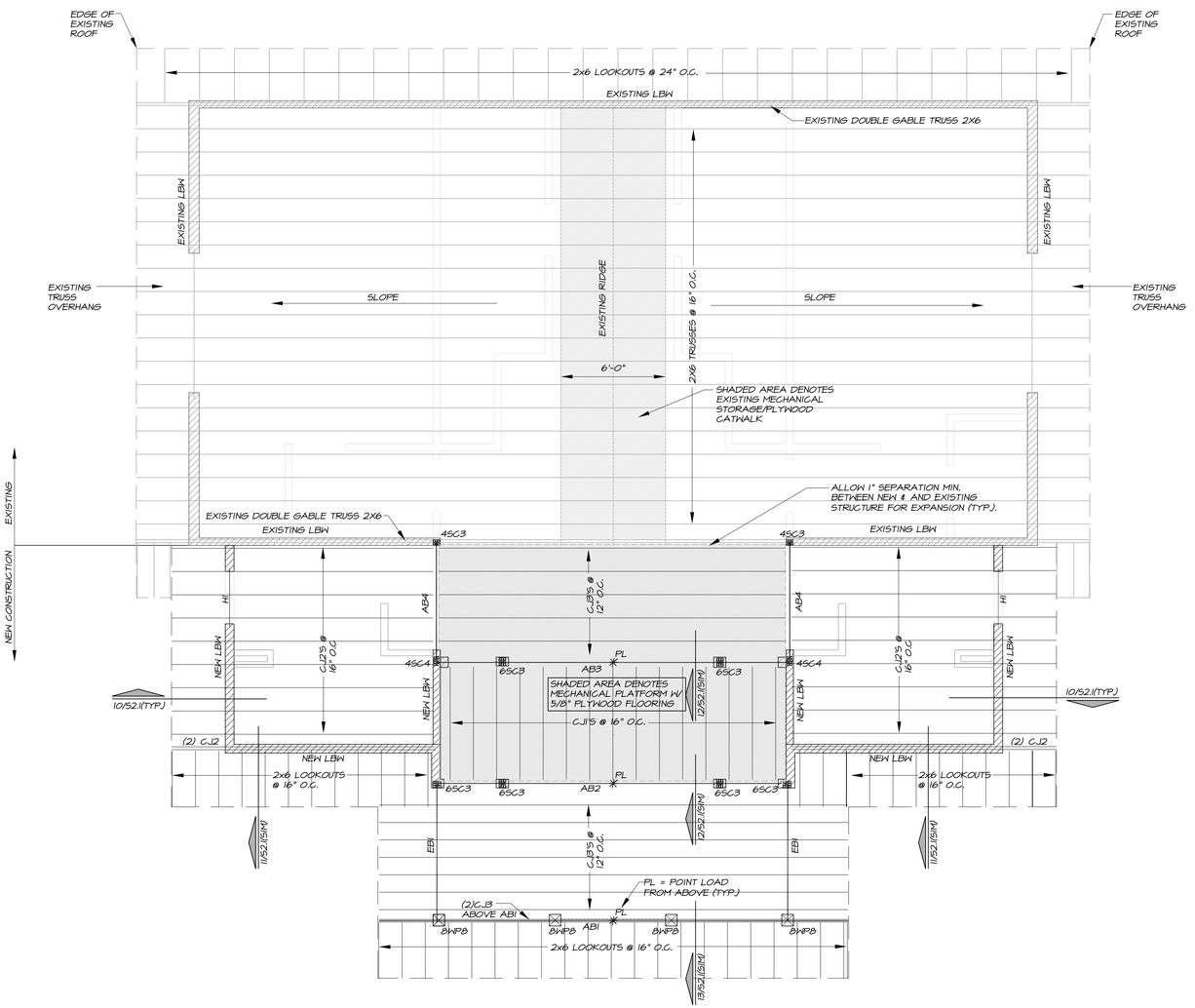
4. USE THIS SCHEDULE FOR 2X6 WALLS. WHERE THERE ARE 2X4 WALLS, USE THE SAME SCHEDULE, BUT (2) 2X'S FOR EACH HEADER.

CEILING/ATTIC FRAMING SCHEDULE

MK#	SIZE	MATERIAL	GRADE	RXN SMALL	RXN LARGE	NOTE
CJ1	3.50" x 9.25"	LVL	-	0.9	0.9	2
CJ2	2 X 6	SPF	No.1/No.2	0.2	0.5	1
CJ3	1.75" X 5.5"	LVL	-	0.1	0.1	2
AB1	(3) 2 X 10	SPF	No.1/No.2	1.9	1.9	1
AB2	5.25" X 9.25"	LVL	-	3.5	3.5	2
AB3	5.25" X 9.25"	LVL	-	3.1	3.1	2
AB4	3.50" X 9.25"	LVL	-	3.7	3.7	2
EB1	(2) 2 X 10	SPF	No.1/No.2	0.6	0.6	2

NOTES

1. SIZES ARE NOMINAL
2. SIZES ARE ACTUAL FOR LVL'S. (IE. 5.25" = 3 PLY LVL)
3. SANDWICH 1/2 PLYWOOD BETWEEN 2X10'S FOR KNEE WALL BEARING WIDTH



SEE S1.2 -ROOF FRAMING PLAN FOR REFERENCE

01 CEILING/ATTIC FRAMING PLAN

1/4" SCALE

WEEKS SUMMER ARCHITECTS

W. S. ARCHITECTS, PA
3305-109 Durham Drive
Raleigh, North Carolina
27603
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LYSAGHT & ASSOCIATES structural engineers
120 St.Mary's Street
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919.833.0495
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NORTH CAROLINA PROFESSIONAL SEAL PE046123 ENGINEER MARK R. BLANTINGHAM

10/27/26

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5330 US 158
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PROJECT NO. 2204a
LA PROJECT NO. 15303

DRAWING TITLE
CEILING/ATTIC FRAMING PLAN

SHEET 03 OF 05

S1.2

PLOT DATE 10/27/26
REVISION -

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STUD COLUMN SCHEDULE					
2 X 4 STUD WALLS			2 X 6 STUD WALLS		
MK#	SIZE	NOTES	MK#	SIZE	NOTES
4SC2	(2) 2 X 4	1, 2	6SC2	(2) 2 X 6	1, 2
4SC3	(3) 2 X 4	1, 2	6SC3	(3) 2 X 6	1, 2
4SC4	(4) 2 X 4	1, 2	6SC4	(4) 2 X 6	1, 2

NOTES

1. BUILT-UP STUD COLUMNS SHALL BE SECURELY NAILED TOGETHER TO ACT AS A COMPOSITE MEMBER. USE (2) 12d NAILS FOR EACH STUD AT 10" O.C.

2. SEE HEADER SCHEDULE FOR JACK AND KING STUDS REQUIRED AT EACH END OF HEADER.

WOOD HEADER SCHEDULE			
MK#	WOOD SIZE	MAX SPAN	NOTES
H1	(3) 2 X 8	6'-0"	1,2

NOTES

1. PROVIDE ONE STUD UNDER AND TWO FULL HEIGHT STUDS BEYOND EACH END OF H1 AND H2.

2. USE #2 GRADE S-P-F FOR SOLID HEADERS. SIZES SHOWN ARE NOMINAL.

3. CONTACT STRUCTURAL ENGINEER FOR WIDER OPENINGS.

4. USE THIS SCHEDULE FOR 2X6 WALLS. WHERE THERE ARE 2X4 WALLS, USE THE SAME SCHEDULE, BUT (2) 2X'S FOR EACH HEADER.

ROOF FRAMING SCHEDULE						
MK#	SIZE	MATERIAL	GRADE	RXN SMALL	RXN LARGE	NOTE
RJ1	2 X 6	SPF	No.1/No.2	0.2	0.5	1, 2
RB1	(2) 2 X 8	SPF	No.1/No.2	1.2	1.2	1, 2
RB2	(2) 2 X 8	SPF	No.1/No.2	1.3	1.3	1, 2

NOTES

1. SIZES ARE NOMINAL
2. SEE SCHEDULE ON S1.2 FOR ATTIC (AB) AND EAVE (EB) BEAMS

WOOD ROOF FRAMING PLAN NOTES

1. USE APA RATED ROOF SHEATHING. 40/20, 5/8" MINIMUM THICKNESS. USE 8d NAILS AT 6" OC ALONG THE PANEL EDGES AND 12" OC ALONG INTERMEDIATE SUPPORTS. PANELS MUST BE CONTINUOUS OVER TWO OR MORE TRUSSES WITH THE LONG DIMENSION (STRENGTH AXIS) ACROSS THE TRUSSES.

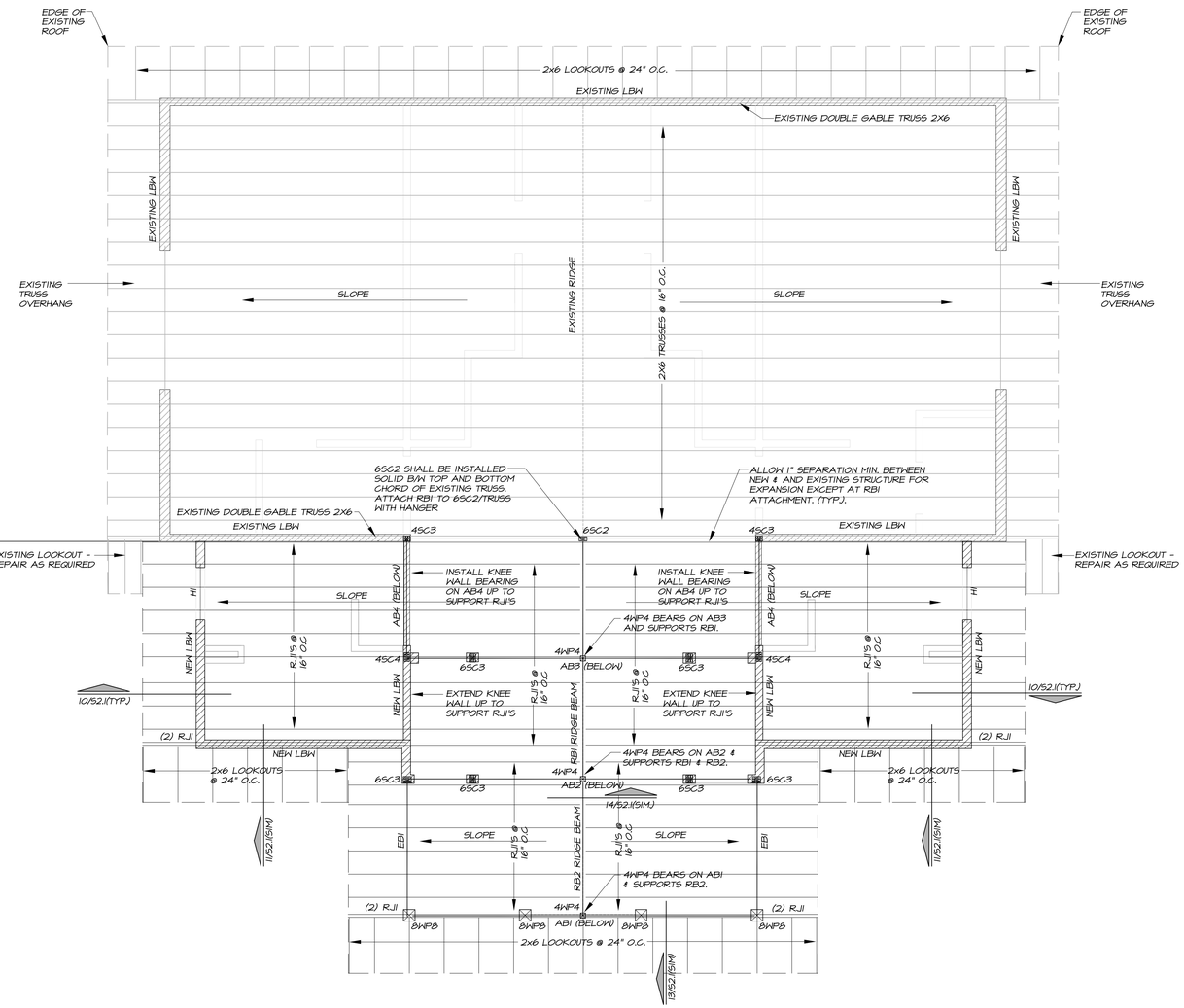
2. COORDINATE OPENINGS IN THE ROOF FRAMING WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS. OPENINGS LARGER THAN 6" SHALL BE FRAMED ON ALL SIDES WITH 2 X 4 HEADERS.

3. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS NOT SHOWN ON THIS PLAN.

WOOD COLUMN SCHEDULE		
MK#	SIZE	NOTES
4WP4	PT 4 X 4	1, 2
8WP8	PT 8 X 8	1, 2

NOTES

1. WOOD COLUMNS SHALL BE PRESERVATIVE TREATED.
2. SIZES ARE NOMINAL



SEE S1.3 - CEILING/ATTIC PLAN FOR FRAMING BELOW

01 ROOF FRAMING PLAN

1/4" SCALE

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W. S. ARCHITECTS, PA
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27603
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PROJECT TITLE
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PROJECT NO. 2204a
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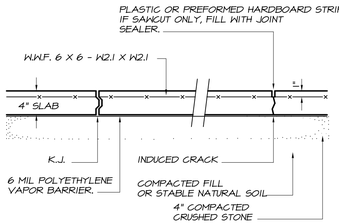
DRAWING TITLE
ROOF FRAMING PLAN

SHEET 04 OF 05

S1.3

PLOT DATE 10/27/26
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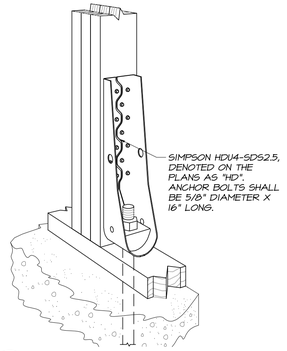
NOTES:

USE A KEYED CONSTRUCTION JOINT (K.J.) BETWEEN POURS.

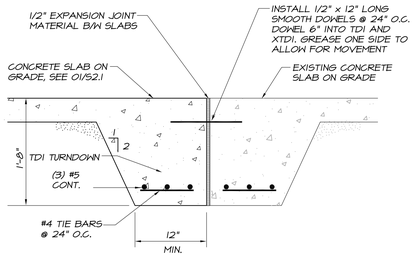
SLAB IS DESIGNED FOR COMMERCIAL OCCUPANCY WITH A MAXIMUM LIVE LOAD OF 100 PSF AND NO LARGE CONCENTRATED LOADS.

USE 4,000 PSI CONCRETE FOR SLABS

01 TYPICAL SLAB ON GRADE — NO SCALE



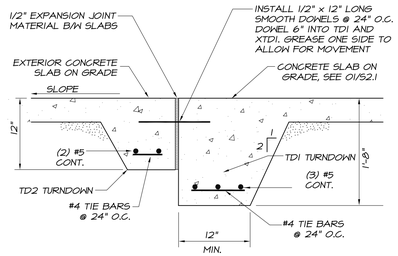
02 TYPICAL HOLD DOWN DETAIL — NO SCALE



NOTE: SEE ARCHITECTURAL PLANS FOR NON-STRUCTURAL ITEMS SUCH AS INSULATION, THRESHOLDS, ETC.

BOTTOM OF FOOTINGS SHALL BE 12" MINIMUM BELOW FINISH GRADE.

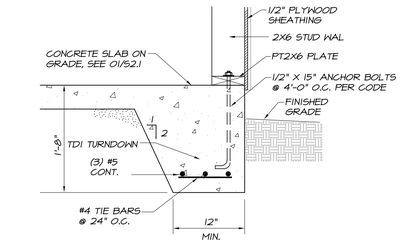
03 TD1XTD1 AT ADDITION — NO SCALE



NOTE: SEE ARCHITECTURAL PLANS FOR NON-STRUCTURAL ITEMS SUCH AS INSULATION, THRESHOLDS, ETC.

BOTTOM OF FOOTINGS SHALL BE 12" MINIMUM BELOW FINISH GRADE.

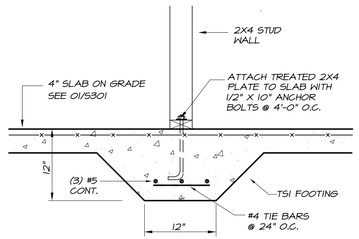
04 TD1/TD2 AT ENTRY — NO SCALE



NOTE: SEE ARCHITECTURAL PLANS FOR NON-STRUCTURAL ITEMS SUCH AS INSULATION, THRESHOLDS, ETC.

BOTTOM OF FOOTING SHALL BE 12" MINIMUM BELOW FINISH GRADE.

05 TD1 TURNDOWN — NO SCALE

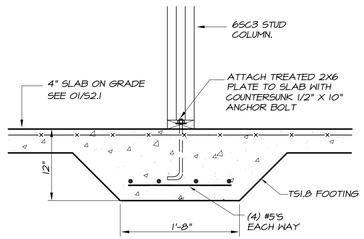


NOTES

THE TS1 MUST REST ON FIRM UNDISTURBED, OR COMPACTED, SOIL.

SEE FOUNDATION PLAN FOR THICKENED SLAB SIZE AND REINFORCING.

06 TS1 THICKENED SLAB — NO SCALE

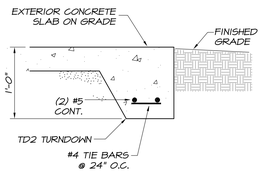


NOTES

THE TS1.8 MUST REST ON FIRM UNDISTURBED, OR COMPACTED, SOIL.

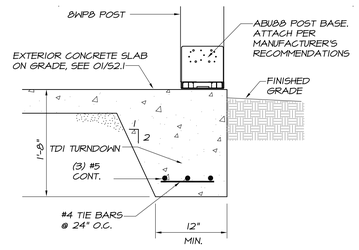
SEE FOUNDATION PLAN FOR THICKENED SLAB SIZE AND REINFORCING.

07 TS1.8 THICKENED SLAB — NO SCALE



NOTE: SEE ARCHITECTURAL PLANS FOR NON-STRUCTURAL ITEMS SUCH AS INSULATION, THRESHOLDS, ETC.

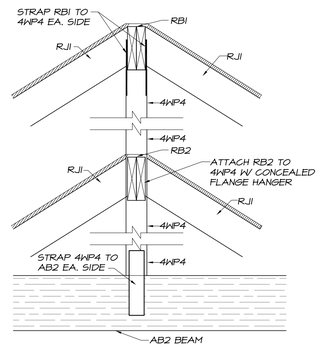
08 TD2 EXTERIOR TURNDOWN — NO SCALE



NOTE: SEE ARCHITECTURAL PLANS FOR NON-STRUCTURAL ITEMS SUCH AS INSULATION, THRESHOLDS, ETC.

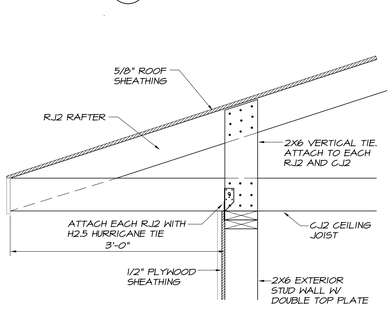
BOTTOM OF FOOTINGS SHALL BE 12" MINIMUM BELOW FINISH GRADE.

09 TD1 TURNDOWN @ BWP8 — NO SCALE



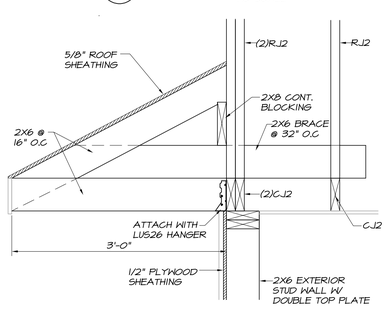
NOTE: SEE ARCHITECTURAL PLANS FOR NON-STRUCTURAL ITEMS SUCH AS INSULATION, ROOFING, FLASHING, ETC.

14 RB1 TO 4WP4 ATTACHMENT — NO SCALE



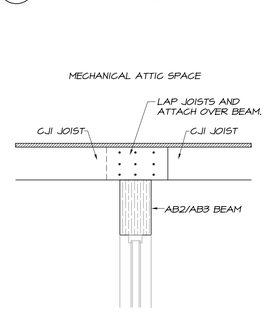
NOTE: SEE ARCHITECTURAL PLANS FOR NON-STRUCTURAL ITEMS SUCH AS INSULATION, FLASHING, ROOFING, ETC.

10 CJ2/RJ2 ROOF OVERHANG — NO SCALE



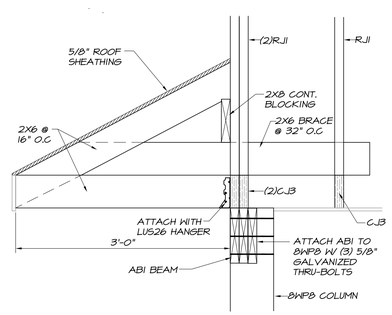
NOTE: SEE ARCHITECTURAL PLANS FOR NON-STRUCTURAL ITEMS SUCH AS INSULATION, FLASHING, ROOFING, ETC.

11 LOOKOUT FRAMING — NO SCALE



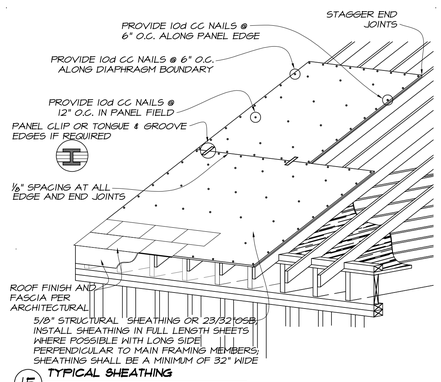
NOTE: SEE ARCHITECTURAL PLANS FOR NON-STRUCTURAL ITEMS SUCH AS INSULATION, DOORS, FLASHING, ETC.

12 ATTIC JOIST/ATTIC BEAM ATTACHMENT — NO SCALE

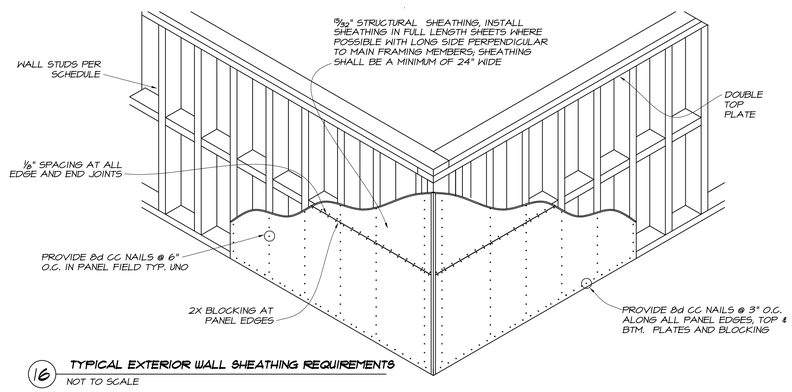


NOTE: SEE ARCHITECTURAL PLANS FOR NON-STRUCTURAL ITEMS SUCH AS INSULATION, DOORS, FLASHING, ETC.

13 ABI/BWP ATTACHMENT AT PORCH — NO SCALE



15 TYPICAL SHEATHING REQUIREMENTS — NO SCALE



16 TYPICAL EXTERIOR WALL SHEATHING REQUIREMENTS — NOT TO SCALE

WEEKS SUMMER ARCHITECTS

W. S. ARCHITECTS, PA
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DRAWING TITLE
STRUCTURAL DETAILS

SHEET 04 OF 05

S2.1

PLOT DATE 10/27/26
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Filename: LA 15303 - Currituck City Rest Stop.dwg

Docusign Envelope ID: 94A397C6-5A2B-8F40-824D-7A24EB69B6C5

GENERAL NOTES – PLUMBING

1. PRE-PLAN ALL WORK PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY PART OF THE WORK DESCRIBED BY THIS DRAWING.

2. IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS WITH EXISTING FIELD CONDITIONS OR THE WORK OF OTHER TRADES.

3. RESOLVE ALL CONFLICTS PRIOR TO INCURRING ANY MATERIAL OR LABOR EXPENSES.

4. COMPLY WITH THE MANUFACTURER'S TECHNICAL INSTRUCTIONS WHEN INSTALLING PLUMBING FIXTURES, MATERIALS, AND DEVICES.

5. LOCATE FIXTURES AND EQUIPMENT GENERALLY AS SHOWN ON THE PLANS; HOWEVER, COORDINATE LOCATIONS WITH ACTUAL FIELD CONDITIONS TO PRESERVE ALL CODE-REQUIRED AND MANUFACTURER-REQUESTED SERVICE CLEARANCES.

6. COORDINATE ROUTING OF ALL PIPING WITH BUILDING STRUCTURE AND WITH THE WORK OF OTHER TRADES. OFFSET VENT PIPING AROUND BEAMS AND JOISTS AS NECESSARY.

7. ALL HANDICAP FIXTURES AND INSTALLATION OF HANDICAP FIXTURES SHALL CONFORM TO ADA REQUIREMENTS.

8. AT EXTERIOR WALL, INSTALL WATER PIPING ON HEATED SIDE OF WALL INSULATION.

9. PROVIDE WATER HAMMER ARRESTORS AT THE END OF EACH COLD AND HOT WATER BRANCH RISER IF REQUIRED. SIZE ARRESTOR APPROPRIATELY.

10. PROVIDE CONCRETE RING FOR ANY/ALL EXTERIOR CLEAN-OUTS.

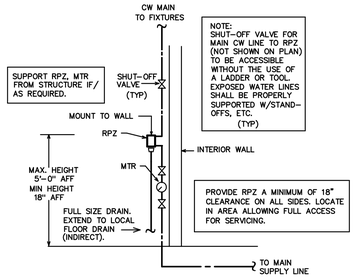
11. REVIEW SITE PLAN FOR UTILITIES AND ORIENTATION AND VERIFY EXISTING CONDITIONS AS NEEDED PRIOR TO START OF WORK.

12. G.C. TO PROVIDE ANY/ALL ROOF PENETRATIONS.

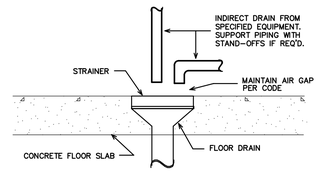
13. VERIFY/PROVIDE HOT WATER STORAGE (EWH) TEMPERATURE AT 140 DEGREES (F). PROVIDE/VERIFY HIGH TEMPERATURE HOT WATER (HTHW) AT 125 DEGREES (MAX.) F, PROVIDE/VERIFY LOW TEMPERATURE HOT WATER (LTHW), AT 110 DEGREES (MAX.) F, TO ALL LAVATORY FAUCETS.

14. PROVIDE ASSE 1070 THERMOSTATIC MIXING VALVE (TMV) FOR EACH LAVATORY FAUCET FOR LTHW OUTFLOW (ONLY), TMV'S MAY BE INTEGRATED WITH FIXTURE/FAUCET OR LOCATE TMV'S IN A MAINTENANCE (ONLY) ACCESSIBLE AREA BELOW LAV, ABOVE CEILING, OR AS REQUIRED. PROVIDE ASSE 1017 TMV WHERE REQUIRED. PROVIDE LOCKABLE ACCESS DOORS IF/WHERE REQUIRED– COORDINATE W/ARCHITECT, OWNER.

15. PROVIDE CLEANOUTS AS REQUIRED BY CODE, MAX. 100 FT APART FOR 4" DRAIN. VERIFY LOCATIONS, COVERS, ETC. WITH OWNER AND ARCHITECT. WALL CLEANOUTS SHALL BE A MIN. 12" A.F.F. FROM THE BOTTOM OF COVER PLATES UNLESS OTHERWISE DIRECTED.

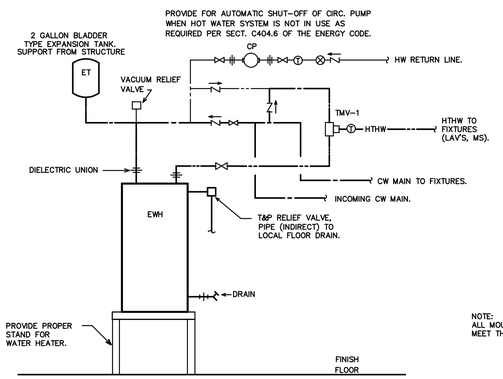


1 RPZ MOUNTING DETAIL
SCALE: NOT TO SCALE



2 INDIRECT CONNECTION DETAIL
SCALE: NOT TO SCALE

GENERAL LAYOUT SHOWN. VERIFY REQUIREMENTS WITH MFR, COORDINATE WITH MFR, EXISTING CONDITIONS, ETC.



NOTE:
WATER HEATERS, PIPING, AND PIPING APPURTENANCES PROVIDED BY P.C. WATER HEATER SUPPORTS BY P.C.

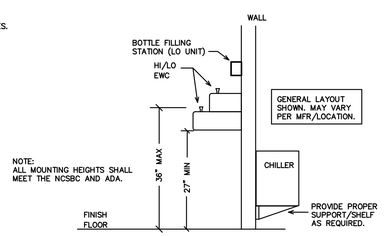
3 EWH DETAIL
SCALE: NOT TO SCALE

LOAD SUMMARY– PLUMBING

WASTE DEMAND (FU)	WATER DEMAND (FU)	WATER DEMAND (GPM)
88.0	148.5	78.7

SYMBOL LEGEND – PLUMBING

SYMBOL	DESCRIPTION (U.O.N.)
	SANITARY WASTE PIPING (W)
	VENT PIPING (V)
G	NATURAL GAS PIPING (G)
	COLD WATER PIPING (CW)
	HOT WATER PIPING (HW)
HTHW	HIGH TEMP. HW PIPING (HTHW) 125 DEG. F
LTHW	LOW TEMP. HW PIPING (LTHW) 110 DEG. F
HWR	HW RETURN PIPING (HWR)
	CHECK VALVE
	BALANCING VALVE
	CIRCULATION PUMP
	SHUT-OFF VALVE
	DIELECTRIC UNION
COFF	CLEANOUT FINISH FLOOR
WCO/HCO	WALL/HORIZONTAL CLEANOUT
COFG	CLEANOUT FINISH GRADE–PROVIDE FLUSH CONCRETE COLLAR AND BRONZE COVER
	VENT THRU ROOF (VTR)
	FREEZE PROOF, HOSE BIBB (FPHB/HB)
A.F.F.	ABOVE FINISHED FLOOR
U.O.N.	UNLESS OTHERWISE NOTED
T	THERMOMETER/TEMPERATURE GAUGE (T) MOUNT IN READABLE ORIENTATION
TMV	THERMOSTATIC MIXING VALVE (TMV)



NOTE:
ALL MOUNTING HEIGHTS SHALL MEET THE NCSBC AND ADA.

4 EWC DETAIL
SCALE: NOT TO SCALE

PLUMBING FIXTURE SCHEDULE *

MARK	DESCRIPTION	ALTERNATE MANUFACTURER/MODEL	ALTERNATE MANUFACTURER/MODEL
CP	CIRCULATING PUMP BELL & GOSSET, SERIES NBF-22 IN-LINE CIRCULATOR PUMP, 1/12 HP, 115 VAC, FLA=0.8 1 Ph., 3/4" CONN., WITH A MAXIMUM OF 22 GPM AND 15' TDH. PUMP TO BE ALL BRONZE CONSTRUCTION, COORDINATE WITH ELEC. CONTRACTOR FOR POWER FEED. PROVIDE DISCONNECT SWITCH, AQUASTAT CONTROL, THERMOMETER/TEMPERATURE GAUGES.	TACO MODEL #110.	ARMSTRONG MODEL #S-25.
EWC	ELECTRIC WATER COOLER W/SENSOR BOTTLE FILLER (HI-LO ADA, HIGH UNIT CANE SKIRT) HAWS ADA COMPLIANT CHILLED VANDAL-RESISTANT FOUNTAIN AND MOTION-ACTIVATED BOTTLE FILLER, MODEL H1119.8P. PROVIDE CANE SKIRT. PROVIDE CHILLER, WATER FILTER/KIT, ALL REQUIRED OPTIONS/ COMPONENTS, VERIFY MODEL FOR HI/LO LOCATIONS (1-LOW/ADA HEIGHT, 1-HIGH) AND FACE PLATE CONFIG. (PER CHILLER LOCATION)– COORDINATE W/ARCH. FOR HI/LO LOCATIONS AND MOUNTING HEIGHTS.	ELKAY MODEL #LZVRSM-EDPFVM217D1LK, PROVIDE REMOTE CHILLER.	OASIS MODEL #MBCREBQ. STNLS. STL. ACCESSORY APRON.
EWH	ELECTRIC WATER HEATER AO SMITH WATER HEATER MODEL #DEN-52, 50 GALLONS, 4500 WATTS, 240 VOLTS, 1 PHASE, NON-SIMULTANEOUS DUAL ELEMENTS, 3/4" INLET/OUTLET, AO SMITH MODEL #PMC-2 EXPANSION TANK. PROVIDE STAND AS REQUIRED, VERIFY WITH OWNER, ARCHITECT. VERIFY INSTALLATION CLEARANCES PRIOR TO BID/ORDERING.	BRADFORD WHITE #LD-50R3-3. AMTROL ST-5-C EXPANSION TANK.	STATE #PCE-52-20RT. STATE ETC-2X EXPANSION TANK.
FD	FLOOR DRAIN ZURN MODEL ZN415 WITH HEEL-PROOF TYPE 'S' STRAINER, CAST IRON WITH VAANDAL-PROOF OPTION NICKEL BRONZE TOP, 5" SQUARE STRAINER– VERIFY TOP SIZE W/ARCHITECT, 3" PIPE CONNECTION.	JOSAM #30000-S.	JAY R. SMITH #2005-S.
FPHB	RECESSED HOSE BIBB ENCASED IN FLUSH-TO-WALL BOX ZURN Z-1320-C, 3/4" WALL HYDRANT WITH VANDAL RESISTANT VACUUM BREAKER. ENCASED WITH KEY LOCK.	WATTS #HY-725.	JAY R. SMITH #5509QT.
HB	HOSE BIBB WOODFORD MODEL 24 ANTI-SIPHON HOSE BIBB W/VACUUM BREAKER. VERIFY OUTLET CONNECTION SIZE, MOUNTING LOCATION.	ZURN #Z1341XL.	PRIER #C-158.
HBR	RECESSED HOSE BIBB ENCASED IN FLUSH-TO-WALL BOX ZURN Z-1330-C, 3/4" WALL HYDRANT WITH VANDAL RESISTANT VACUUM BREAKER. ENCASED WITH KEY LOCK.	WATTS #HY-330.	JAY R. SMITH #5572.
L1	LAVATORY (ACCESSIBLE, WALL HUNG) AMERICAN STANDARD "LUCERNE" # 0356.421 WHITE WITH CONCEALED ARM CARRIER AND DRAIN ASSEMBLY (7723.018). ADA COMPLIANT. FURNISH WITH SLOAN OPTIMA EAF-275 SOLAR POWERED SENSOR FAUCET WITH ASSE 1070 INTEGRATED THERMOSTATIC MIXER, AERATED 0.5 GPM, VERIFY FINISH, OPTIONS WITH ARCHITECT.	KOHLER GREENWICH #K-2032 WITH HYDROTEK 7000SLE SOLAR SENSOR FAUCET.	ELJER MURRAY II #051-0244 WITH TOTO TEL3GS10 SOLAR SENSOR FAUCET.
L2	TWO STATION LAVATORY (ACCESSIBLE) WILLOUGHBY MODEL WAW-2322-DMF TWO STATION LAVATORY. ADA COMPLIANT. PROVIDE TWO DRAINS W/GRID STRAINERS, VERIFY COLOR, ALL OPTIONS (FAUCET HOLE DRILLING, ETC.) WITH ARCHITECT. PROVIDE SLOAN EAF-275 SOLAR SENSOR FAUCETS (2 PER STATION UNIT) WITH ASSE 1070 INTEGRATED THERMOSTATIC MIXER, AERATED 0.5 GPM, VERIFY FINISH, ALL OPTIONS WITH ARCHITECT.	SLOAN SLOANSTONE #ELS-72000 WITH HYDROTEK 7000SLE SOLAR SENSOR FAUCET.	BRADLEY EXPRESS #ELX-2 WITH TOTO TEL3GS10 SOLAR SENSOR FAUCETS.
MS	TERRAZZO MOP SINK BASIN W/FAUCET (VERIFY FLANGE REQUIREMENT/LOCATION) BASIN– FLORESTONE MODEL 81, 24" X 24" X 6" TERRAZZO MOP RECEPTOR, 3" DRAIN SIZE– VERIFY MATCHES EXISTING CONNECTION SIZE. INTEGRAL DRAIN MAY REQUIRE A MINIMUM 6" DIAMETER X 1 1/2" DEEP RECESS IN SUBFLOOR. LEVEL AS NEEDED, USE WEDGE-LOCK SEAL PER MFR'S INSTRUCTIONS. USE WATER TO CHECK FOR PROPER DRAINAGE UPON CONNECTION TO EXISTING PIPING AND PRIOR TO WALL FINISHING. VERIFY SIZE PRIOR TO ORDERING. PROVIDE NEW WALL SPLASHGUARDS IF REQUIRED PER ARCH. FAUCET– SPEAKMAN MODEL MR-371 FAUCET WITH VACUUM BREAKER. PROVIDE 5' HOSE WITH HANGER BRACKET AND MOP HANGER IF REQUIRED, VERIFY WITH OWNER AND ARCHITECT.	ZURN Z1996-24 BASIN WITH Z1996-24-SF FAUCET	MUSTEE 63M BASIN WITH 63.600A FAUCET.
MTR	2" DOMECTIC WATER METER– BRONZE CONSTRUCTION NEPTUNE T-10 LEAD-FREE WATER METER, DIRECT READ. MOUNT IN READABLE ORIENTATION. PROVIDE PROPER INSTALLATION– ISOLATION SHUT-OFF VALVES, ETC.	BADGER M25 SERIES.	CARLON JL SERIES.
RPZ	2" REDUCED PRESSURE BACKFLOW PREVENTER WATTS MODEL #LF009M2QT 2" REDUCED PRESSURE BACKFLOW PREVENTER WITH STRAINER, BRONZE CONSTRUCTION. PROVIDE PROPER INSTALLATION– ISOLATION SHUT-OFF VALVES, ETC.	ZURN #375.	FEBCO #860.
TMV-1	THERMOSTATIC MIXING VALVE #1 (ASSE 1017) WATTS SERIES LFMMV MIXING VALVE WITH CHECK VALVES. INSTALL IN MAINTENANCE ACCESSIBLE LOCATION AS REQUIRED. SET HW OUTFLOW TO SPECIFIED TEMPERATURE FOR HTHW- 125 DEG. F (MAX.).	TACO 5000 SERIES.	LEONARD TM SERIES.
TMV-2 ◊	THERMOSTATIC MIXING VALVE #2 (ASSE 1070) WATTS LFUSG-B 'LEAD FREE' GUARDIAN. INSTALL IN MAINTENANCE ACCESSIBLE ONLY LOCATION BELOW LAV/SINK OR AS REQUIRED. SET HW OUTFLOW TO SPECIFIED TEMPERATURE FOR LTHW- 110 DEG. F (MAX.).	TACO 5120 SERIES.	LEONARD LF170 SERIES.
UR **	URINAL (HIGH EFFICIENCY) AMERICAN STANDARD "DECORUM" #6043.001EC, 0.125 GPF, VITREOUS CHINA, 3/4" BACK SPUD. PROVIDE SLOAN #195-0.125-ES-S-OR AC POWERED SENSOR FLUSH VALVE W/MANUAL OVERRIDE, ADA COMPLIANT. PROVIDE VANDAL-RESISTANT STAINLESS STEEL STRAINER #7381755-200.0020A. INSTALL AT PROPER MOUNTING HEIGHT FOR ADA AND NON-ADA LOCATIONS, COORDINATE WITH ARCHITECT. PROVIDE ZURN #Z1222 CARRIER WITH OPTIONS AS REQUIRED, VERIFY CARRIER COMPATABILITY WITH EXISTING CONDITIONS, REPLACE PIPING AS NEEDED.	KOHLER DEXTER K-5452-ER WITH HYDROTEK H8-D1B-0125 FLUSH VALVE. WATTS CA-321 CARRIER.	TOTO #105UVG WITH AMERICAN STANDARD SELECTRONIC #6062.301.007 FLUSH VALVE. JAY R. SMITH 0637 CARRIER.
WC1 **	WATER CLOSET (FLOOR MOUNT TOP SPUD) AMERICAN STANDARD "MADERA FLOWISE" #3461.001, ELONGATED BOWL, 1.28 GPF, VITREOUS CHINA, AND 1-1/2" TOP SPUD, ADA COMPLIANT. PROVIDE OPEN FRONT SEAT, AND SENSOR W/ MANUAL OVERRIDE FLUSH VALVE EQUAL TO SLOAN OPTIMA 111-1.28-ES-S (AC POWERED) FLUSH VALVE.	ZURN #Z5665 FIXTURE. ZURN #ZEMS6000IS FLUSH VALVE.	KOHLER HIGHCREST #K-4302 FIXTURE. HYDROTEK H8-128 VALVE.
WC2 **	WATER CLOSET (FLOOR MOUNT REAR OUTLET W/BACK SPUD) AMERICAN STANDARD "PRIOLO FLOWISE" #3697.001, ELONGATED BOWL, 1.28 GPF, VITREOUS CHINA, WITH 1-1/2" BACK SPUD. ADA COMPLIANT. PROVIDE OPEN FRONT SEAT. PROVIDE SLOAN OPTIMA MODEL #140-1.28-ES-S (AC POWERED) SENSOR FLUSH VALVE WITH MANUAL OVERRIDE. PROVIDE ZURN #Z1202-N4-FMBO FIXTURE CARRIER WITH VANDAL-PROOF TRIM. VERIFY CARRIER COMPATABILITY WITH EXISTING CONDITIONS, REPLACE PIPING AS NEEDED.	ZURN Z5647-BWL FIXTURE, ZURN #ZEMS6152AV-HET, 1.28 GPF VALVE. WATTS ISCA-121-BF CARRIER.	SLOAN ST-2539-LR FIXTURE, HYDROTEK H-8CB-128, 1.28 GPF VALVE. JAY R. SMITH 0675 CARRIER.
WC3 **	WATER CLOSET (WALL MOUNT BACK SPUD) W/HEAVY DUTY RATED (500 LB.) FIXTURE CARRIER AMERICAN STANDARD "AFWALL FLOWISE" #3353.101, ELONGATED BOWL, 1.28 GPF, ADA COMPLIANT, VITREOUS CHINA, AND 1-1/2" BACK SPUD. PROVIDE OPEN FRONT SEAT. PROVIDE SLOAN OPTIMA MODEL #152-1.28-ES-S (AC POWERED) SENSOR FLUSH VALVE WITH MANUAL OVERRIDE. PROVIDE ZURN #Z1204-N4-X , 4" ADJUSTABLE VERTICAL NO HUB FIXTURE CARRIER, W/HEAVY-DUTY 500 LB. REAR ANCHOR, VANDAL-PROOF TRIM. VERIFY CARRIER COMPATABILITY WITH EXISTING CONDITIONS, REPLACE PIPING AS NEEDED.	ZURN #Z5617 FIXTURE. ZURN #ZEMS6140AV FLUSH VALVE. WATTS ISCA-121 CARRIER.	KOHLER KINGSTON #K-4329 FIXTURE. HYDROTEK H-8000C-CB FLUSH VALVE. JAY R. SMITH 230Y CARRIER.

* OR APPROVED EQUAL. VERIFY ALL NEW FIXTURE REPLACEMENTS PROPERLY COVER ANY EXISTING/REUSED OPENINGS, MOUNTING LOCATIONS, ETC. VERIFY FINAL FINISHES AND REQUIREMENTS W/ARCHITECT, AND BLDG. OWNER.

** VERIFY FLUSH VALVE SENSOR WALL PLATE COVERS ANY NEW OR EXISTING TILE/OPENINGS IN WALL FOR EACH UNIT. COORDINATE W/EXISTING CONDITIONS, ARCHITECT, G.C., BLDG. OWNER. PROVIDE FINAL FINISHES AS REQUIRED.

◊ NOT REQUIRED FOR FAUCET MODELS WITH INTEGRATED ASSE 1070 MIXING VALVES INCLUDED.

WEEKS SUMMER ARCHITECTS

W. S. ARCHITECTS, PA
3305-109 Durham Drive
Raleigh, North Carolina 27603
919.779.9797
www.wsarchitectspa.com

ENGINEER
BURKE DESIGN GROUP, PA
CONSULTING ENGINEERS
3305-109 Durham Drive
Raleigh, North Carolina 27603
919.771.1916 fax: 919.779.0826
email: ben@bdg-nc.com
Corp. License # C-2652

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 22038 BENJAMIN E. BURKE
DocuSigned by: C6570119B0F3405...
10/28/2026

SCO#: 26-31654-01A

PROJECT TITLE
CURRITUCK CTY REST AREA
5330 HWY 158
POPULAR BRANCH, NORTH CAROLINA

PROJECT NO.
2204a

DRAWING TITLE
PLUMBING SPECIFICATIONS

P1

PLOT DATE 10/27/2026

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KEY NOTES FOR SHEET P2

1. WATER CLOSET TO BE REMOVED.
2. LAVATORY TO BE REMOVED.
3. URINAL TO BE REMOVED.
4. ELECTRIC WATER HEATER TO BE REMOVED. ALL RELATED COMPONENTS– TEMPERING VALVE, EXPANSION TANK (ETC., SYSTEM COMPONENTS NOT SHOWN) TO BE REMOVED.
5. SERVICE SINK TO BE REMOVED.
6. HI/LO ELEC. WATER COOLER TO BE REMOVED.
7. WATER COOLER CHILLER TO BE REMOVED.
8. EXISTING BLDG. CW METER TO BE REMOVED– ALL WATER PIPING DOWNSTREAM OF METER TO BE REMOVED, PROVIDE NEW PIPING PER WATER PLAN– SEE SHEET P4.
9. EXISTING ROUND FLOOR DRAIN STRAINER TO BE REMOVED (REPLACED WITH NEW– SEE P3).
10. YARD HYDRANT TO REMAIN.

NOTE:
ANY EXISTING INFORMATION SHOWN ON THIS SHEET IS FROM FIELD INVESTIGATION. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION. THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES NOTED.

THE SCOPE OF DEMOLITION IS AS FOLLOWS–
REMOVE ALL EXISTING ABOVE GRADE PLUMBING (DWV/WATER) PIPING/COMPONENTS AS REQUIRED– NEW PIPING FOR ALL NEW FIXTURES WILL REPLACE ALL EXISTING PIPING/SYSTEMS. COORDINATE W/ARCHITECT, OWNER, NEW PLANS. REMOVE EXISTING FIXTURES IN WORK AREA AS SHOWN. PROVIDE CLEANOUTS ON UNUSED DRAIN LINES AT FINAL FINISHES AND AS REQUIRED TO PREVENT DEAD–ENDS PER CODE. REMOVE ALL UNUSED DWV, CW & HW LINES/STUB–OUTS, ETC., CAP LINES BEHIND FINAL FINISHES IF NECESSARY. REMOVE AND REPLACE ALL CONCRETE, WALL BOARD AND CEILINGS AS REQUIRED TO LOCATE EXISTING LINES/INSTALL NEW LINES. COORDINATE WITH NEW PLANS FOR ANY LINES TO BE REUSED. ALL REQUIRED PLUMBING DEMO ITEMS MAY NOT BE INDICATED, VERIFY ITEMS TO BE REMOVED.

IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO LOCATE ANY AND ALL EXISTING BUILDING SYSTEMS IN CONCRETE, FLOORS, WALLS, CEILINGS, ETC., PRIOR TO START OF WORK, THAT MAY BE ENCOUNTERED DURING CONSTRUCTION TO DETERMINE METHODS REQUIRED TO AVOID AND/OR MAINTAIN EXISTING SYSTEMS OPERATION. COORDINATE WITH BLDG. OWNER, ARCH., G.C.
THE PLUMBING CONTRACTOR SHALL LOCATE, TRACE, AND INSPECT FOR PROPER DRAINAGE AND CONDITION, ANY/ALL EXISTING BUILDING DRAINAGE LINES AND SYSTEMS (SANITARY, GREASE, ETC.) THAT ARE TO BE UTILIZED BY THE OCCUPANT/NEW CONNECTIONS PER DESIGN DRAWINGS THROUGH USE OF CAMERA, DYES, AND/OR ANY MEANS NECESSARY– PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL REMEDY ANY ISSUES IN ORDER TO ENSURE A PROPER FUNCTIONING, CODE COMPLIANT SYSTEM, WHICH INCLUDES BUT IS NOT LIMITED TO, JETTING OF LINES, REMOVAL OF DEBRIS, REPLACEMENT OF ANY IMPROPER OR DAMAGED PIPING. VERIFY AVAILABLE DEPTH/INVERT REQUIREMENTS, FLOW DIRECTION OF EXISTING LINES, PROVIDE DOCUMENTATION TO THE ENGINEER FOR REVIEW. THE EXISTING AND NEW DRAINAGE SYSTEMS/CONNECTIONS SHALL BE TESTED FOR PROPER OPERATION UPON COMPLETION OF WORK. ALL ISSUES AND SOLUTION OPTIONS ARE TO BE COORDINATED WITH THE DRAINAGE SYSTEM/BUILDING OWNER, G.C., ARCHITECT, AND ENGINEER. PROVIDE AS–BUILT DRAWINGS FOR ENGINEER REVIEW.
COORDINATE WORK WITH BUILDING OWNER SO AS NOT TO IMPACT OPERATION OF ANY ADJACENT SPACES/LEVELS. NIGHT AND WEEKEND WORK MAY BE REQUIRED.

EXISTING TO REMAIN U.O.N.

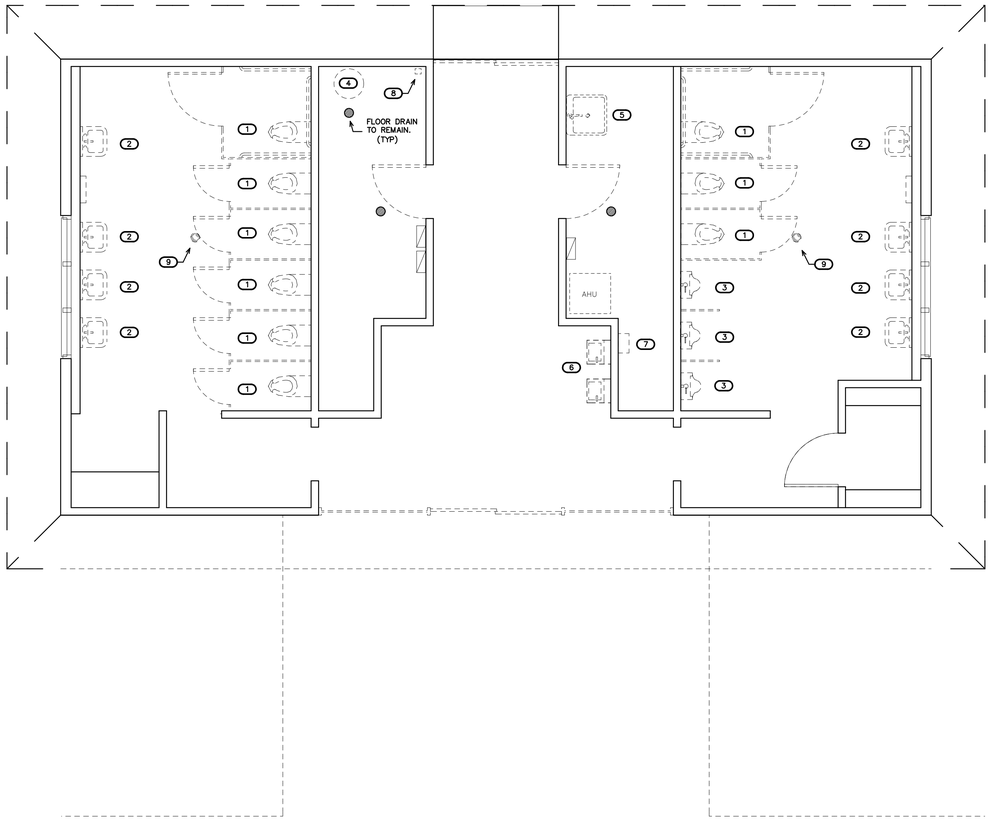
TO BE REMOVED

NOTE:
ALL PLUMBING FIXTURES (PIPING, ETC.) TO REMAIN OR TO BE REMOVED MAY NOT BE SHOWN. COORDINATE WITH DEMO/NEW PLANS, FIELD CONDITIONS. VERIFY ITEMS/LINES TO BE REMOVED. SALVAGE ALL PLUMBING FIXTURES DEMO'D AND TURN OVER TO THE OWNER. COORDINATE WITH OWNER, ARCHITECT, FOR ANY ITEMS TO BE RELOCATED, REPLACE UNUSABLE ITEMS, ETC., IF/AS REQUIRED.

NOTE:
ALL EXISTING FLOOR DRAINS TO REMAIN MAY NOT BE SHOWN. VERIFY LOCATIONS. REPAIR/REPLACE ITEMS (GRATES, ENTIRE UNITS, ETC.) IF REQUIRED, COORDINATE WITH OWNER AND ARCHITECT.

NOTE:
EXISTING FLOOR DRAIN STRAINER GRATES (ROUND) ARE TO BE REPLACED WITH SQUARE GRATES WHERE NOTED. COORDINATE WITH WITH EXISTING UNITS, PROVIDE NEW FLOOR DRAIN UNIT ASSEMBLIES/ MODELS IF/AS REQUIRED. VERIFY GRATES TO BE REPLACED AND COORDINATE NEW GRATES W/ARCH.

EXISTING YARD HYDRANT (APPROXIMATE LOCATION).



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

5' 0 1' 2' 3' 4' 5'
GRAPHIC SCALE 1/4" = 1' - 0"

NORTH

WEEKS SUMMER ARCHITECTS

W. S. ARCHITECTS, PA
3305-109 Durham Drive
Raleigh, North Carolina 27603
919.779.9797
www.wsarchitectspa.com

ENGINEER
BURKE DESIGN GROUP, PA
CONSULTING ENGINEERS
3305-109 Durham Drive
Raleigh, North Carolina 27603
919.771.1916 fax: 919.779.0826
email: ben@bdg-nc.com
Corp. License # C-2652

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 22038 BENJAMIN E. BURKE

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10/28/2026

SCO#: 26–31654–01A

PROJECT TITLE
CURRITUCK CTY
REST AREA
5330 HWY 158
POPULAR BRANCH, NORTH CAROLINA

PROJECT NO.
2204a

DRAWING TITLE
DEMO PLAN

P2

PLOT DATE 10/27/2026

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KEY NOTES FOR SHEET P3

1. CONNECT TO EXISTING 4" (MIN.) SANITARY WASTE MAIN IN AREA. VERIFY LOCATION. REMOVE/REPLACE PIPING, CONCRETE, ETC., AND PROVIDE NEW PIPING AS NEEDED.
2. CONNECT TO EXISTING 3" (MIN.) SANITARY WASTE MAIN IN AREA. VERIFY LOCATION. REMOVE/REPLACE PIPING, CONCRETE, ETC., AND PROVIDE NEW PIPING AS NEEDED.
3. CONNECT TO EXISTING 2" (MIN.) SANITARY WASTE MAIN IN AREA. VERIFY LOCATION. REMOVE/REPLACE PIPING, CONCRETE, ETC., AND PROVIDE NEW PIPING AS NEEDED.
4. 1-1/2" VENT FOR WET VENTING OF FD.
5. DROP 2" W TO CONNECT TO EXISTING 3" SANITARY WASTE MAIN IN AREA. VERIFY LOCATION. REMOVE/REPLACE PIPING, CONCRETE, ETC., AND PROVIDE NEW PIPING AS NEEDED. PROVIDE WCO (NOT SHOWN).
6. REPLACE ROUND STRAINER TOP OF EXISTING FLOOR DRAIN WITH SQUARE STRAINER, ADA COMPLIANT. REPLACE ENTIRE FLOOR DRAIN UNIT IF/AS REQUIRED. COORDINATE NEW STRAINER (OR UNIT) W/ARCHITECT, EXISTING FLOOR SLOPES, EXISTING OR NEW FLOORING. REMOVE/REPLACE CONCRETE, ETC. AS REQ'D.
7. PROVIDE EXTERIOR CLEANOUT ON EXISTING WASTE MAIN IF/AS REQUIRED. VERIFY LOCATION, COORDINATE W/OWNER, ARCH.

NOTE:
PROVIDE COFF FOR ANY EXISTING COFG TO BE DESIGNATED IN AN INTERIOR AREA DUE TO NEW CONSTRUCTION/EXPANSION.

NOTE:
THE EXISTING INFORMATION SHOWN ON THIS SHEET IS FROM FIELD INVESTIGATION AND PREVIOUS PERMIT DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION. THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES NOTED.

REMOVE AND REPLACE ALL CONCRETE, ASPHALT, WALL MATERIAL, CEILINGS, ETC., AS REQUIRED TO LOCATE EXISTING LINES AND INSTALL NEW LINES. ALL EXISTING DWV LINES, ETC., MAY NOT BE SHOWN.

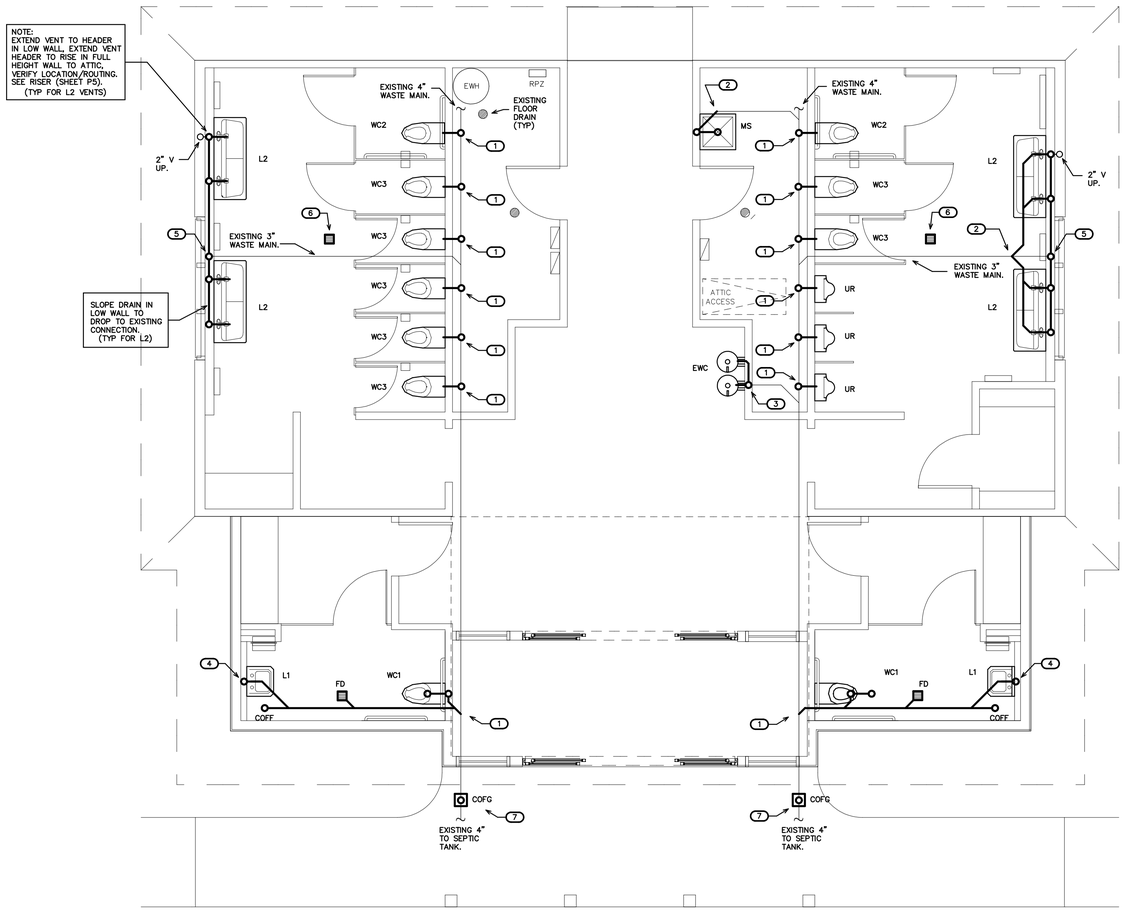
IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO LOCATE ANY AND ALL EXISTING BUILDING SYSTEMS IN CONCRETE, FLOORS, WALLS, CEILINGS, ETC., PRIOR TO START OF WORK, THAT MAY BE ENCOUNTERED DURING CONSTRUCTION TO DETERMINE METHODS REQUIRED TO AVOID AND/OR MAINTAIN EXISTING SYSTEMS OPERATION. COORDINATE WITH BLDG. OWNER, ARCH., G.C. COORDINATE ROUTING OF ALL NEW ABOVE GRADE PIPING WITH ARCHITECT, OWNER, G.C., ALL TRADES.

THE PLUMBING CONTRACTOR SHALL LOCATE, TRACE, AND INSPECT FOR PROPER DRAINAGE AND CONDITION, ANY/ALL EXISTING BUILDING DRAINAGE LINES AND SYSTEMS (SANITARY, GREASE, ETC.) THAT ARE TO BE UTILIZED BY THE OCCUPANT/NEW CONNECTIONS PER DESIGN DRAWINGS THROUGH USE OF CAMERA, DYES, AND/OR ANY MEANS NECESSARY– PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL REMEDY ANY ISSUES IN ORDER TO ENSURE A PROPER FUNCTIONING, CODE COMPLIANT SYSTEM, WHICH INCLUDES BUT IS NOT LIMITED TO, JETTING OF LINES, REMOVAL OF DEBRIS, REPLACEMENT OF ANY IMPROPER OR DAMAGED PIPING. VERIFY AVAILABLE DEPTH/INVERT REQUIREMENTS, FLOW DIRECTION OF EXISTING LINES. PROVIDE DOCUMENTATION TO THE ENGINEER FOR REVIEW. THE EXISTING AND NEW DRAINAGE SYSTEMS/CONNECTIONS SHALL BE TESTED FOR PROPER OPERATION UPON COMPLETION OF WORK. ALL ISSUES AND SOLUTION OPTIONS ARE TO BE COORDINATED WITH THE DRAINAGE SYSTEM/BUILDING OWNER, G.C., ARCHITECT, AND ENGINEER. PROVIDE AS–BUILT DRAWINGS FOR ENGINEER REVIEW.

COORDINATE WORK WITH BUILDING OWNER SO AS NOT TO IMPACT OPERATION OF ANY ADJACENT SPACES/LEVELS. NIGHT AND WEEKEND WORK MAY BE REQUIRED.

NOTE:
EXISTING FLOOR DRAIN STRAINER GRATES (ROUND) ARE TO BE REPLACED WITH SQUARE GRATES WHERE NOTED. COORDINATE WITH WITH EXISTING UNITS, PROVIDE NEW FLOOR DRAIN UNIT ASSEMBLIES/ MODELS IF/AS REQUIRED. VERIFY GRATES TO BE REPLACED AND COORDINATE NEW GRATES W/ARCH.

NOTE:
VERIFY LOCATION OF NEW FLOOR DRAINS WITH OWNER, ARCHITECT. (TYP)



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

5' 0 1' 2' 3' 4' 5'
GRAPHIC SCALE 1/4" = 1' - 0"

NORTH

WEEKS SUMMER ARCHITECTS

W. S. ARCHITECTS, PA
3305-109 Durham Drive
Raleigh, North Carolina 27603
919.779.9797
www.wsarchitectspa.com

ENGINEER
BURKE DESIGN GROUP, PA
CONSULTING ENGINEERS
3305-109 Durham Drive
Raleigh, North Carolina 27603
919.771.1916 fax: 919.779.0826
email: ben@bdg-nc.com
Corp. License # C-2652

NORTH CAROLINA PROFESSIONAL SEAL 22038 ENGINEER BENJAMIN E BURKE
DocuSigned by:
C8378189DF3405...
10/28/2026

SCO#: 26–31654–01A

PROJECT TITLE
CURRITUCK CTY REST AREA
5330 HWY 158
POPULAR BRANCH, NORTH CAROLINA

PROJECT NO.
2204a

DRAWING TITLE
DWV PLAN

P3

PLOT DATE 10/27/2026

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KEY NOTES FOR SHEET P4

1. CONNECT TO EXISTING INCOMING 2" CW MAIN. PROVIDE MAIN SHUT-OFF VALVE (NOT SHOWN) A.F.F., BEFORE NEW 2" METER AND 2" RPZ. ALL UNITS/COMPONENTS, PIPING, ETC., SHOWN FOR CLARITY- VERIFY LOCATIONS.

   NOTE: INSTALL WATER METER TO BE 54" A.F.F. IN A PROPER READABLE ORIENTATION, WITHIN VIEW OF STAFF. VERIFY LOCATION, COORDINATE WITH ARCHITECT, OWNER, G.C.

2. PROVIDE ASSE 1070 TMV-2 AT LAVATORY FOR 110 DEG. F (MAX) LTHW ONLY TO SENSOR FAUCET, LOCATE TMV (NOT SHOWN) IN A PROPER MAINTENANCE ACCESSIBLE AREA BELOW FIXTURE, OR AS REQUIRED. PROVIDE TMV FOR EACH FAUCET IN L2 AS REQUIRED. TMV-2 UNIT ADDITION NOT REQUIRED IF ASSE 1070 MIXING VALVE FOR LTHW IS PROVIDED WITH FAUCET MODEL.

3. PROVIDE WALL-MOUNTED HOSE BIBB (HB) ABOVE MOP SINK FOR CONNECTION OF CLEANING CHEMICAL DISPENSING UNIT. VERIFY MOUNTING HEIGHT/LOCATION, COORDINATE WITH EQUIPMENT, ARCHITECT, AND OWNER.

4. CW CONTINUATION TO EWH, TMV-1 NOT SHOWN FOR CLARITY. SEE ENLARGED PLAN AND EWH DETAIL (P1).

5. HTHW CONTINUATION TO EWH, TMV-1 NOT SHOWN FOR CLARITY. SEE ENLARGED PLAN AND EWH DETAIL (P1).

6. HWR CONTINUATION TO EWH, TMV-1 NOT SHOWN FOR CLARITY. SEE ENLARGED PLAN AND EWH DETAIL (P1).

7. RISE TO RUN ABOVE CEILING. VERIFY LOCATION- SHOWN ON PLAN FOR CLARITY. SEE SHEET P1 DETAIL.

8. CONNECT CW TO EWH. PROVIDE EXPANSION TANK (ET) AND SHUT-OFF VALVE AS REQUIRED- NOT SHOWN FOR CLARITY. VERIFY LOCATIONS, SEE DETAIL ON SHEET P1.

NOTE:
THE EXISTING INFORMATION SHOWN ON THIS SHEET IS FROM FIELD INVESTIGATION. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION. THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES NOTED.

REMOVE AND REPLACE ALL CONCRETE, ASPHALT, WALL MATERIAL, CEILINGS, ETC., AS REQUIRED TO LOCATE EXISTING LINES AND INSTALL NEW LINES.

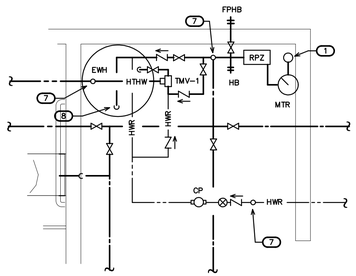
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COORDINATE WORK WITH BUILDING OWNER SO AS NOT TO IMPACT OPERATION OF ANY ADJACENT SPACES/LEVELS. NIGHT AND WEEKEND WORK MAY BE REQUIRED.

NOTE:
PROPERLY PROTECT/INSULATE ALL PIPING IN UNCONDITIONED AREAS. VERIFY ROUTING OF WATER LINES W/ARCH. ALL LINES, VALVES, CP, ETC., SHOWN FOR CLARITY- VERIFY LOCATIONS OF ALL COMPONENTS, COORDINATE WITH ALL TRADES. ALL COMPONENTS MAY NOT BE SHOWN. (TYP)

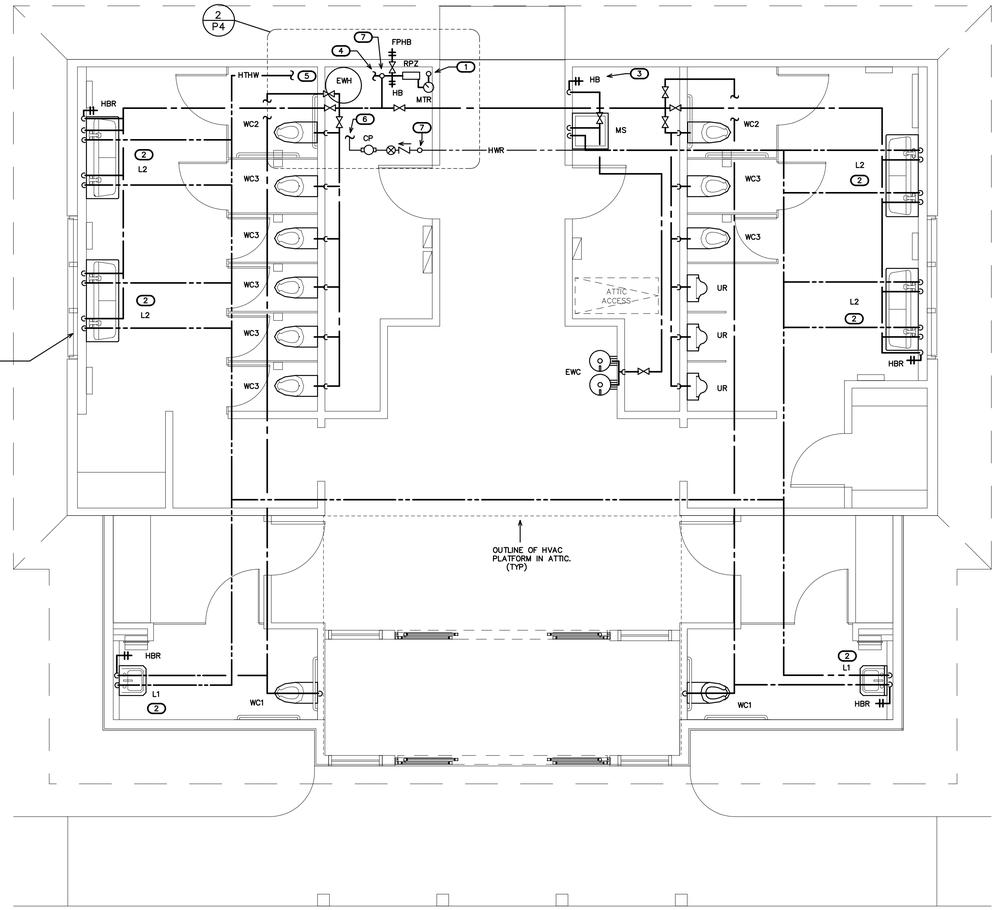
VERIFY THE QUANTITY AND MOUNTING LOCATION OF HB, HBR, FPHB W/OWNER, ARCH. (TYP)

NOTE:
COORDINATE ROUTING OF ALL WATER PIPING, LOCATION OF ALL COMPONENTS WITH ARCH., OWNER, ALL TRADES, NEW AND EXISTING STRUCTURE, ETC.



2 ENLARGED WATER PLAN
SCALE: 1/2" = 1'-0"

NOTE:
WATER LINE DROPS SHOWN FOR CLARITY. DROP LINES TO L2 IN FULL HEIGHT WALL. AVOID WINDOWS, ETC., ROUTE CONCEALED/AS REQUIRED IN LOW WALL TO FIXTURE. (TYP FOR L2 CONNECTIONS)



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

5' 0 1' 2' 3' 4' 5'
GRAPHIC SCALE 1/4" = 1' - 0"

NORTH

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W. S. ARCHITECTS, PA
3305-109 Durham Drive
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ENGINEER
BURKE DESIGN GROUP, PA
CONSULTING ENGINEERS
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919.771.1916 fax: 919.779.0826
email: ben@bdg-nc.com
Corp. License # C-2652

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 22038 BENJAMIN E. BURKE

Docusigned by:
C937E1FB80F34D5...
10/28/2026

SCO#: 26-31654-01A

PROJECT TITLE
CURRITUCK CTY
REST AREA
5330 HWY 158
POPULAR BRANCH, NORTH CAROLINA

PROJECT NO.
2204a

DRAWING TITLE
WATER PLAN

P4

PLOT DATE 10/27/2026

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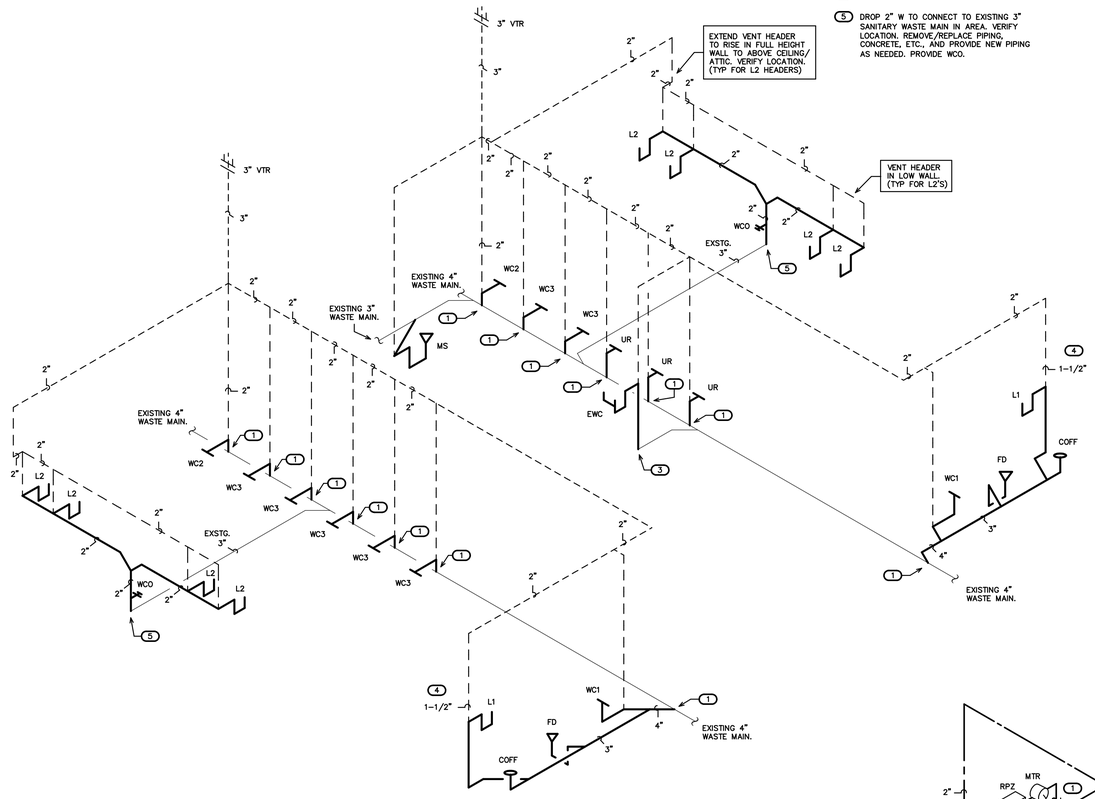
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NOTE:
PROVIDE PROPER VENT THRU ROOF (VTR). RUN HORIZONTALLY AS REQUIRED TO MAINTAIN 10'-0" CLEARANCE FROM ANY INTAKES. PROPERLY FLASH ANY ROOF PENETRATION. VERIFY STACK ROUTING/ TERMINATION LOCATION, COORDINATE WITH ARCH., OWNER, G.C. (TYP)

KEY NOTES FOR DWV RISER

1. CONNECT TO EXISTING 4" (MIN.) SANITARY WASTE MAIN IN AREA. VERIFY LOCATION.
2. CONNECT TO EXISTING 3" (MIN.) SANITARY WASTE MAIN IN AREA. VERIFY LOCATION.
3. CONNECT TO EXISTING 2" (MIN.) SANITARY WASTE MAIN IN AREA. VERIFY LOCATION.
4. 1-1/2" VENT FOR WET VENTING OF FD.
5. DROP 2" W TO CONNECT TO EXISTING 3" SANITARY WASTE MAIN IN AREA. VERIFY LOCATION. REMOVE/REPLACE PIPING, CONCRETE, ETC., AND PROVIDE NEW PIPING AS NEEDED. PROVIDE WCO.



2 DWV RISER
SCALE: NOT TO SCALE

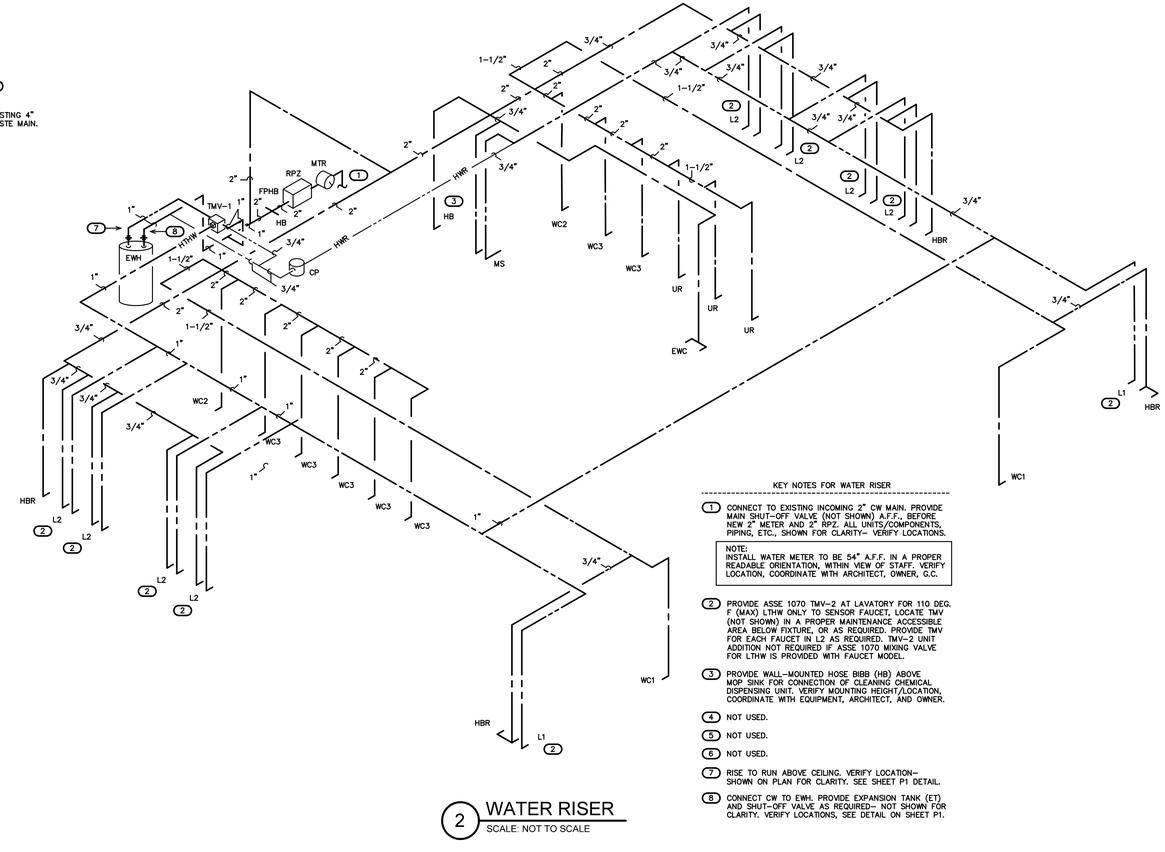
DWV/WATER RISER NOTES:
REPRESENTATIVE SIZES ARE GIVEN FOR EACH TYPE OF FIXTURE. SEE PIPE SIZING SCHEDULE.
MINIMUM 2" DRAIN LINE SIZE UNDER SLAB.
MAINTAIN PIPE SIZES SHOWN UNTIL LARGER SIZE IS REACHED.
PIPE SIZES ARE MINIMUMS FOR INDIVIDUAL FIXTURES U.O.N.

(VERIFY ALL EQUIPMENT REQUIREMENTS PRIOR TO ROUGH-IN)

PIPE SIZING SCHEDULE

FIXTURE TYPE	DRAIN	VENT	CW	HW
(EWC) ELECTRIC WATER COOLER	1 1/4"	1 1/4"	1/2"*	–
(FD) FLOOR DRAIN	3"	1 1/2"	–	–
(FPHB) FREEZE PROOF HOSE BIBB	–	–	1/2"*	–
(HB/HBR) HOSE BIBB	–	–	1/2"	–
(L) LAVATORY/LAV STATION	1 1/2"	1 1/4"	1/2"	1/2"
(MS) MOP SINK	3"	1 1/2"	1/2"	1/2"
(UR) URINAL	2"	1 1/4"	3/4"	–
(WC) FLUSH VALVE WATER CLOSET	3"	1 1/2"	1"	–

* PROVIDE BACKFLOW PREVENTER PER NCSBC-PLUMBING SECT. 608.3, EX: ASSE 1024 (WATTS SERIES 7 OR EQUAL) ASSE 1022 (WATTS SERIES SD-3 EQUAL) ETC., WHERE REQUIRED IF NOT AN INTEGRAL PART OF THE EQUIPMENT.



KEY NOTES FOR WATER RISER

1. CONNECT TO EXISTING INCOMING 2" CW MAIN. PROVIDE MAIN SHUT-OFF VALVE (NOT SHOWN) A.F.F., BEFORE NEW 2" METER AND 2" RPZ. ALL UNITS/COMPONENTS, PIPING, ETC., SHOWN FOR CLARITY- VERIFY LOCATIONS.

NOTE:
INSTALL WATER METER TO BE 54" A.F.F. IN A PROPER READABLE ORIENTATION, WITHIN VIEW OF STAFF. VERIFY LOCATION, COORDINATE WITH ARCHITECT, OWNER, G.C.

2. PROVIDE ASSE 1070 TMV-2 AT LAVATORY FOR 110 DEG. F (MAX) LTHW ONLY TO SENSOR FAUCET, LOCATE TMV (NOT SHOWN) IN A PROPER MAINTENANCE ACCESSIBLE AREA BELOW FIXTURE, OR AS REQUIRED. PROVIDE TMV FOR EACH FAUCET IN L2 AS REQUIRED. TMV-2 UNIT ADDITION NOT REQUIRED IF ASSE 1070 MIXING VALVE FOR LTHW IS PROVIDED WITH FAUCET MODEL.
3. PROVIDE WALL-MOUNTED HOSE BIBB (HB) ABOVE MOP SINK FOR CONNECTION OF CLEANING CHEMICAL DISPENSING UNIT. VERIFY MOUNTING HEIGHT/LOCATION, COORDINATE WITH EQUIPMENT, ARCHITECT, AND OWNER.
4. NOT USED.
5. NOT USED.
6. NOT USED.
7. RISE TO RUN ABOVE CEILING. VERIFY LOCATION- SHOWN ON PLAN FOR CLARITY. SEE SHEET P1 DETAIL.
8. CONNECT CW TO EWH. PROVIDE EXPANSION TANK (ET) AND SHUT-OFF VALVE AS REQUIRED- NOT SHOWN FOR CLARITY. VERIFY LOCATIONS, SEE DETAIL ON SHEET P1.

2 WATER RISER
SCALE: NOT TO SCALE

WEEKS SUMMER ARCHITECTS

W. S. ARCHITECTS, PA
3305-109 Durham Drive
Raleigh, North Carolina 27603
919.779.9797
www.wsarchitectspa.com

ENGINEER
BURKE DESIGN GROUP, PA
CONSULTING ENGINEERS
3305-109 Durham Drive
Raleigh, North Carolina 27603
919.771.1916 fax: 919.779.0826
email: ben@bdg-nc.com
Corp. License # C-2652

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 22038 BENJAMIN E. BURKE
DocuSigned by: 10/28/2026

SCO#: 26-31654-01A

PROJECT TITLE
CURRITUCK CTY
REST AREA
5330 HWY 158
POPULAR BRANCH, NORTH CAROLINA

PROJECT NO.
2204a

DRAWING TITLE
RISERS

P5

PLOT DATE 10/27/2026

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ENERGY RECOVERY UNIT SCHEDULE

		THERMAL PERFORMANCE													
		FANS / MOTORS						DESIGN CONDITIONS				ERV OUTLET CONDITIONS		ENERGY RECOVERY (THERMAL) CAPACITY		
EQUIP. NUMBER	MODEL NO.	FLOW	STATIC PRESSURE (EXTERNAL)	FAN MOTORS FAN MOTORS	VOLTS/ PHASE/ HZ	MCA	MOCP	OUTSIDE AIR TEMP(F) & HUMIDITY (DB) / (WB OR RH)		ROOM AIR TEMP (F) & HUMIDITY (DB) / (WB OR RH)		LEAVING AIR TEMP(F) & HUMIDITY (DB) / (WB)		COOLING CAPACITY (MBH / TON)	HEATING CAPACITY (MBH)	NOTES:
								SUMMER	WINTER	SUMMER	WINTER	SUMMER	WINTER	TOTAL	TOTAL	
ERV-1	GREENHECK ECV-10H-VG-F	1000 CFM	0.40 IN ½ 0	(2) FOR FANS	115V 1 PH. 60 HZ	25.9	35	95F / 78F	19F / 15.5	75F / 50%	72F / 50%	82.8F / 71.8F	48.6F / 40F	28.35 / 2.26	32.45	ALL

NOTES:

1. FLOW & LOADS BASED ON ARI-1060 PERFORMANCE & CERTIFIED CORE.
2. NOT USED.
3. VENTILATION TYPE: STATIC PLATE, HEAT & HUMIDITY TRANSFER.
4. INCLUDE INTEGRAL DISPOSABLE FILTERS (OUTSIDE AND ROOM AIR) WITH MERV8 OR BETTER RATING.
5. INCLUDE SINGLE POINT ELECTRICAL POWER CONNECTION.
6. HOUSING SHALL BE GALVANIZED, .20 GAUGE (OR THICKER) STEEL WITH LAPPED CORNERS.
7. OR EQUALS BY RENEWAIRE, OR RUSKIN.
8. SERVICE ACCESS DOORS SHALL BE GASKETED & PROVIDE ACCESS FOR MAINTENANCE OF ALL COMPONENTS.
9. INCLUDE INSULATION ON ALL CASE WALLS & DOORS.
10. INCLUDE THERMALLY PROTECTED MOTORS WITH STARTERS.
11. UL LISTED 1995
12. PROVIDE WITH FUSED DISCONNECT SWITCH.

Currituck County Rest Area M1

HVAC EQUIPMENT SCHEDULE

HVAC SYSTEM #1	
AHU #1 DIRECT EXPANSION FAN COIL UNIT	* TRANE MODEL #5TEM606AV41, 4 WAY, MULTIPOISE FAN COIL UNIT. 9.6 KW HEATER. NOMINAL CAPACITY = 60,000 BTUH. 2000 CFM NOMINAL. PROVIDE HARD SHUT-OFF TXV VALVE. 5 TON NOMINAL. PROVIDE PROGRAMMABLE THERMOSTAT AND FILTER RACK WITH HINGED DOOR. 3/4HP, 6.8A MOTOR FLA, 40A HEAT FLA, 240V, 1 PH, 59A MCA, 60A MOCP AHU & HEAT.
HP #1 OUTDOOR HEAT PUMP UNIT	* TRANE MODEL #5TWR5060A1, 5 TON OUTDOOR HEAT PUMP UNIT, 15 SEER, PROVIDE CYCLE PROTECTOR, LOW PRESSURE SWITCH, CRANKCASE HEATER, 240 VOLT, 1 PHASE. COMP 22.3A RLA, FAN 2.8A FLA, OUTDOOR HEAT PUMP 33A MCA, 50A MOCP.

* OR APPROVED EQUAL

Currituck County Rest Area M1

EXHAUST FAN SCHEDULE

EXHAUST FAN #1&2 (EF-1&2)	* GREENHECK MODEL# SP-A125 EXHAUST FAN, 109 CFM @ 1/4" SP, 1010 RPM, 0.19 AMPS, 120V, 0.6 SONES. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE SWITCH AND WIRE THE UNIT. THE HVAC CONTRACTOR SHALL PROVIDE UNIT, 6" RIGID DUCT TO ROOF CAP. LOCATE EXHAUST TERMINATION A MINIMUM OF 10'-0" FROM ANY INTAKES.

* OR APPROVED EQUAL

NOTE: RUN EXHAUST DUCTS HORIZONTALLY AS REQUIRED TO MAINTAIN 10'-0" MINIMUM SEPARATION FROM ANY INTAKES.

AIR DISTRIBUTION SCHEDULE

MARK	* MANUFACTURER	MODEL NO.	** NECK SIZE	FACE SIZE	MATERIAL	SERVICE	NOTES
A	CARNES	RADMH	10" x 10"	12" X 12"	ALUMINUM	SUPPLY	SURFACE MOUNTED, ANODIZED ALUMINUM FINISH, 4-WAY BLOW
B	CARNES	RADMH	12" X 12"	14" X 14"	ALUMINUM	SUPPLY	SURFACE MOUNTED, ANODIZED ALUMINUM FINISH, 4-WAY BLOW
C	CARNES	RADMH	14" X 14"	16" X 16"	ALUMINUM	SUPPLY	SURFACE MOUNTED, ANODIZED ALUMINUM FINISH, 4-WAY BLOW
RA	CARNES	RNRMH	22" X 22"	24" X 24"	ALUMINUM	RETURN	SURFACE MOUNTED, ANODIZED ALUMINUM FINISH
EA	CARNES	RNRMH	12" X 12"	14" X 14"	ALUMINUM	EXHAUST	SURFACE MOUNTED, ANODIZED ALUMINUM FINISH

* OR APPROVED EQUAL BY TITUS OR PRICE

** PROVIDE RECTANGULAR TO ROUND DUCT TRANSITION ON GRILLE / DIFFUSER WHERE NEEDED.

NATURAL ANODIZED ALUMINUM FINISH. PROVIDE CUT SHEETS TO OWNER/ARCH. PRIOR TO ORDERING.

FLEXIBLE DUCTWORK SIZES

MAXIMUM CFM'S

SIZES	SUPPLY	RETURN
6"	100	100
8"	175	175
10"	250	250
12"	400	350
14"	550	500
16"	NA	900

(CHANGE OUT EXISTING FLEX DUCTS AND COLLARS AS REQUIRED TO GET NEW CFM'S SHOWN)

FLEXIBLE DUCTWORK NOTES

1) INSTALL FLEXIBLE DUCTWORK RUNS AS STRAIGHT AS POSSIBLE.
2) DO NOT ALLOW FLEXIBLE DUCT TO SAG BETWEEN SUPPORTS.
3) DO NOT STRETCH A SHORT SECTION TO FIT A SLIGHTLY LONGER SECTION. THIS DISTORTS THE DUCT SHAPE AND IMPEDES AIR FLOW.
4) DO NOT CRUSH DUCTWORK TO FIT IN A SPACE SMALLER THAN ITS ORIGINAL OUTSIDE DIAMETER. MAXIMUM ALLOWABLE DEFORMATION IS 15% OF ORIGINAL VOLUME.
5) USE RIGID 90 DEGREE ELBOWS AT ANY LOCATION WHERE THE DUCTWORK BECOMES DISTORTED.
6) EXTREME CARE SHALL BE TAKEN TO ELIMINATE ANY REDUCTION IN FLOW WITHIN THE FLEXIBLE DUCTS. THE MECH. CONTRACTOR WILL BE REQUIRED TO REPLACE THE FLEXIBLE DUCT WITH RIGID IF PROPER FLOW IS NOT OBTAINED.
7) SIZE ALL FLEXIBLE DUCT SO AS NOT TO EXCEED MAXIMUM CFM'S GIVEN IN TABLE.

GENERAL NOTES – MECHANICAL

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE AND ALL LOCAL AND OTHER APPLICABLE CODES.
2. ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR (MC).
3. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN. THE MC SHALL COORDINATE ALL OF HIS WORK WITH THE GENERAL CONTRACTOR (GC) AND OTHER TRADES.
4. THE LOCATION OF ALL DUCT, PIPING AND EQUIPMENT SHALL BE ADJUSTED TO ACCOMMODATE ANTICIPATED OR ENCOUNTERED INTERFERENCES.
5. THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS REFER TO THE ARCHITECTURAL PLANS.
6. THE MC SHALL BE RESPONSIBLE FOR ALL ELECTRICAL STARTERS INTERLOCKS, CONTROL WIRING CONDUIT AND POWER WIRING FROM DISCONNECTS TO HIS EQUIPMENT, USING A LICENSED ELECTRICIAN.
7. THE MC SHALL USE FIRE DAMPERS FOR PROTECTION OF THE OPENING IN ACCORDANCE WITH STATE AND LOCAL CODES IN ALL LOCATIONS WHERE PENETRATIONS OF RATED WALLS AND FLOORS OCCUR. SEE ARCHITECTURAL PLANS FOR RATED WALL AND FLOOR LOCATIONS. PROVIDE ACCESS DOORS AT ALL DAMPER LOCATIONS. LOCATE DOORS FOR EASY ACCESS.
8. INSTALL FLEXIBLE CONNECTORS ON SUPPLY AND RETURN DUCTWORK AHU. ALL MECHANICAL EQUIPMENT SHALL OPERATE FREE OF OBJECTIONAL NOISE AND VIBRATION.
9. INSTALL TURNING VANES IN SUPPLY DUCTS AT ALL ELBOWS AND SPLITTER DAMPERS. PROVIDE BALANCING DAMPERS IN ALL DUCTS WHERE SHOWN OR REQUIRED FOR SYSTEM BALANCING.
10. DUCT DIMENSIONS ARE SHOWN INSIDE CLEAR.
11. THE MC SHALL KEEP THE PREMISES CLEAR OF DEBRIS FROM HIS WORK DURING CONSTRUCTION AND LEAVE THE AREA AND BUILDING CLEAN AT THE COMPLETION OF HIS WORK. HE SHALL ALSO LEAVE CLEAN ALL EXPOSED EQUIPMENT IN HIS CONTRACT.
12. PROVIDE ALL REQUIRED ROOF PENETRATIONS FOR THE INSTALLATION OF THE NEW EQUIPMENT. ALL FLASHINGS ARE BY THE MECHANICAL CONTRACTOR. ALL ROOFING WORK SHALL BE DONE BY A LICENSED ROOFING CONTRACTOR SO AS TO MAINTAIN ORIGINAL WARRANTY.
13. THE M.C. SHALL COORDINATE WITH AND PROVIDE EQUIPMENT SPEC. SHEETS TO THE GENERAL AND ELECTRICAL CONTRACTORS FOR REVIEW PRIOR TO ORDERING EQUIPMENT.
14. PROPERLY SUPPORT ALL DUCT WORK, AND EQUIP FROM STRUCTURE. PROVIDE ALL STRUCTURAL SUPPORTS FOR THE LOADS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
15. THESE DRAWINGS FOLLOW THE 2018 NC MECHANICAL CODE AND ALL WORK SHALL BE DONE WITHIN THE GUIDELINES SET THEREIN.

LEGEND – MECHANICAL

- 12 X 8 — RECTANGULAR DUCTWORK. INSIDE CLEAR DIMENSION INDICATED (WIDTH X HEIGHT)
- FLEXIBLE DUCTWORK
- 12" DIA. — ROUND GALVANIZED STEEL DUCT INSIDE CLEAR DIMENSION INDICATED.
- T — WALL MOUNTED THERMOSTAT WITH REMOTE DUCT MOUNTED TEMPERATURE SENSOR MOUNT AT 48" AFF
- TS — RETURN AIR DUCT MOUNTED TEMPERATURE SENSOR
- X / XXX — GRILLE TYPE / MIN. CFM
- SUPPLY DIFFUSER
- RETURN GRILLE
- EXHAUST GRILLE
- ITEMS TO BE REMOVED

OA SCHEDULE OUTDOOR VENTILATION AIR PROVIDED PER TABLE 403.3 NCSBC MECHANICAL CODE.

APPLICATION	SQUARE FOOTAGE (SF)	AREA OUTDOOR AIR FLOW RATE (CFM/SF)	PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	OCCUPANCY DENSITY RATE (# PEOPLE/ 1000SF)	OCCUPNCY (# PEOPLE)	AREA OUTDOOR AIR FLOW (CFM)	PEOPLE OUTDOOR AIR FLOW (CFM)	TOTAL (CFM)
CORRIDOR	565	0.06	–	–	–	39	–	39
TOTAL REQUIRED								39

OUTDOOR AIR PROVIDED FROM EACH HVAC UNIT	
HVAC UNIT	OUTDOOR AIR (CFM)
ERV-1	1000 CFM
TOTAL PROVIDED	1000 CFM *

APPLICATION	CFM
TOILETS	70 CFM/FLUSHING FIXTURE

14 FLUSHING FIXTURE X 50 CFM CONTINUOUS = 700 CFM

1000 CFM EXHAUST PROVIDED BY ERV-1, & 218 CFM INTERMITTENT FROM TWO EXHAUST FANS.

* OUTSIDE AIR QUANTITY PROVIDED FOR MAKE-UP AIR FOR TOILET EXHAUST AND BUILDING PRESSURIZATION.

APPENDIX B

2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)
MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEM AND EQUIPMENT

Thermal Zone 4A

winter dry bulb 26F
summer dry bulb 92F

Interior Design Conditions

winter dry bulb 72F
summer dry bulb 75F
relative humidity 50%

Building Heating Load 62,300 BTU/hr

Building Cooling Load 59,900 BTU/hr

Mechanical Spacing Conditioning System

Unitary – The tenant space is served the following systems:
(1) 5 ton split system heat pump with 1000 cfm ERV

Boiler – Not applicable to this project.

Chiller – Not applicable to this project.

Equipment efficiencies

Efficiencies and outputs are listed on equipment schedules – See drawings.

WEEKS SUMMER ARCHITECTS

W. S. ARCHITECTS, PA
3305-109 Durham Drive
Raleigh, North Carolina 27603
919.779.9797
www.wsarchitectspa.com

ENGINEER
BURKE DESIGN GROUP, PA
CONSULTING ENGINEERS
3305-109 Durham Drive
Raleigh, North Carolina 27603
919.771.1916 fax: 919.779.0826
email: ben@bdg-nc.com
Corp. License # C-2652

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 22038 BENJAMIN E. BURKE

DocuSigned by: C937A1EB90F3405...
10/28/2026

SCO#: 26-31654-01A

PROJECT TITLE
CURRITUCK CTY REST AREA
5330 HWY 158
POPULAR BRANCH, NORTH CAROLINA

PROJECT NO.
2204a

DRAWING TITLE
HVAC SCHEDULES

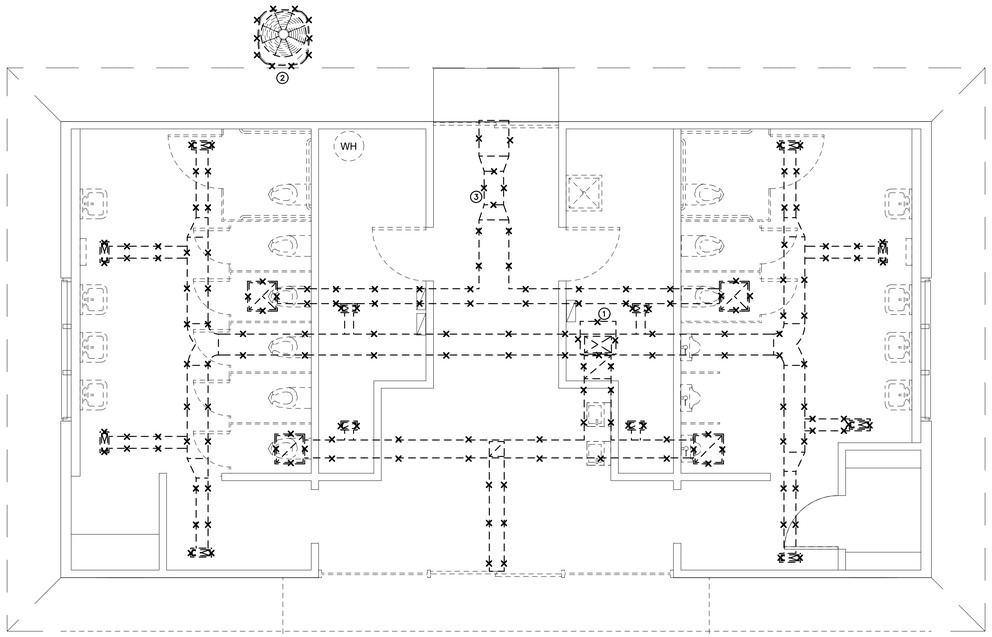
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1 HVAC DEMO PLAN
SCALE: 1/4" = 1'-0"

DEMOLITION NOTES:

1. REMOVE ALL EXISTING SUPPLY, RETURN, AND EXHAUST DUCTWORK.
2. REMOVE ALL EXISTING SUPPLY, RETURN, AND EXHAUST GRILLES AND DIFFUSERS.
3. REMOVE EXISTING AIR HANDLING UNIT, AND OUTDOOR HEAT PUMP UNIT AND ALL ASSOCIATED CONTROLS, PIPING, AND WIRING.
4. ALL REMOVED REFRIGERANT SHALL BE PROPERLY RECOVERED AND TURNED OVER TO AN EPA CERTIFIED RECLAIM FACILITY PER 2018 NCMC SECT.-1102.2.2.

KEY NOTES FOR SHEET M2

1. REMOVE EXISTING AIR HANDLING UNIT AND ALL ASSOCIATED PIPING, CONTROLS, AND WIRING.
2. REMOVE EXISTING OUTDOOR HEAT PUMP AND ALL ASSOCIATED CONTROLS, AND WIRING.
3. REMOVE EXISTING EXHAUST FAN AND ALL ASSOCIATED CONTROLS, WIRING.

5' 0 1' 2' 3' 4' 5'
GRAPHIC SCALE 1/4" = 1' - 0"

NORTH

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W. S. ARCHITECTS, PA
3305-109 Durham Drive
Raleigh, North Carolina 27603
919.779.9797
www.wsarchitectspa.com

ENGINEER
BURKE DESIGN GROUP, PA
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3305-109 Durham Drive
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NORTH CAROLINA PROFESSIONAL SEAL 22038 ENGINEER BENJAMIN E. BURKE

Docusigned by:
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PROJECT TITLE
CURRITUCK CTY
REST AREA
5330 HWY 158
POPULAR BRANCH, NORTH CAROLINA

PROJECT NO.
2204a

DRAWING TITLE
HVAC DEMO PLAN

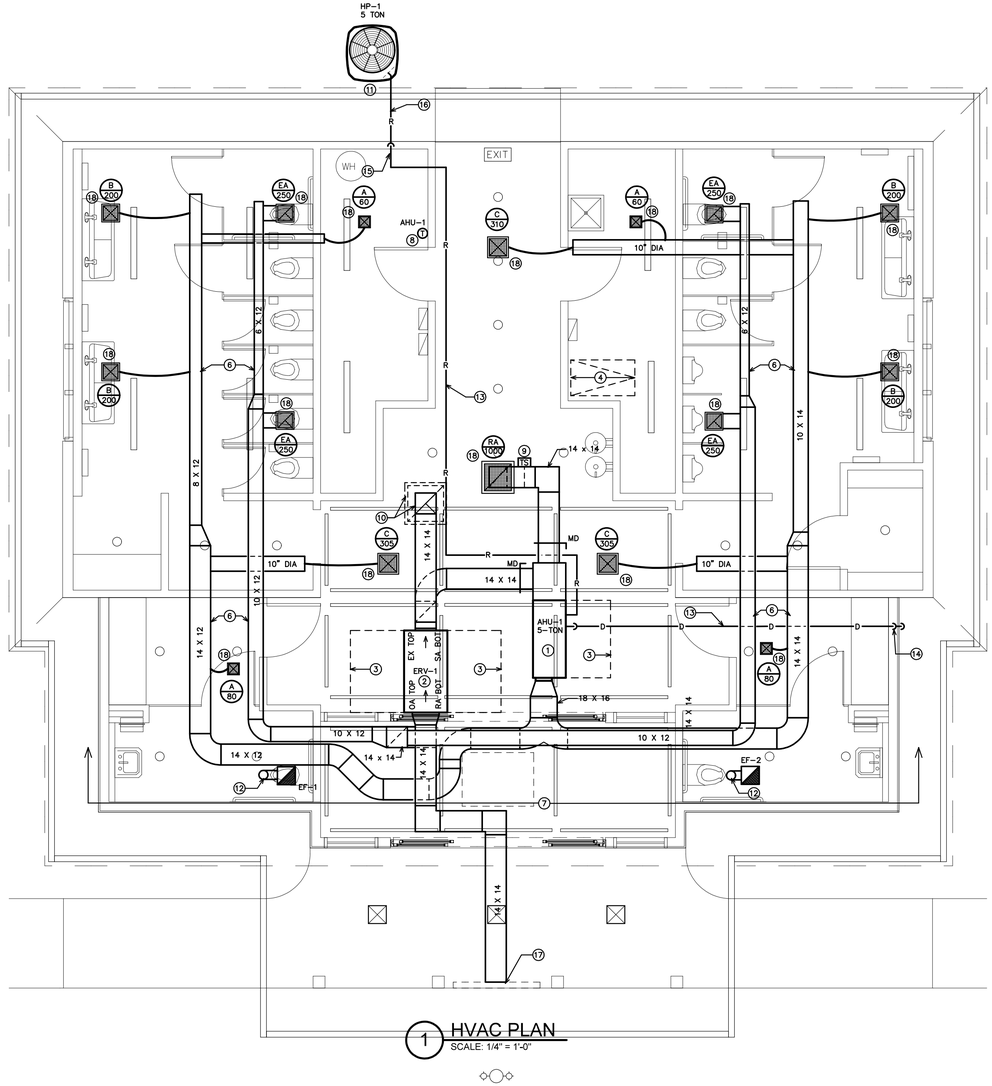
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1 HVAC PLAN
SCALE: 1/4" = 1'-0"

KEY NOTES FOR 1/M3

1. NEW HORIZONTAL AIR HANDLING UNIT MOUNTED ON FLOOR IN ATTIC SPACE. (175Lbs Approx.) SEE DETAIL 2/M4. ATTIC FLOORING BY GENERAL CONTRACTOR.
2. NEW ENERGY RECOVERY UNIT MOUNTED ON ATTIC FLOOR. (485lbs Approx.) SEE DETAIL 3/M4.
3. DASHED LINE INDICATES SERVICE CLEARANCE FOR UNIT.
4. ATTIC ACCESS HATCH WITH LADDER FOR MAINTENANCE OF EQUIPMENT IN ATTIC.
5. ATTIC ACCESS PANEL FOR ERV AND AHU INSTALLATION AND FUTURE REMOVAL FROM ATTIC. ACCESS PANEL IS BY GENERAL CONTRACTOR.
6. RUN DUCTWORK IN ATTIC SPACE THROUGH WEBS OF AND PERPENDICULAR TO ROOF TRUSSES. COORDINATE EXACT LOCATION OF DUCTS IN ATTIC WITH LOCATION OF TRUSS WEBS.
7. SEE BUILDING SECTION 1/M4 FOR FOR VIEW OF WORK IN THE MECHANICAL ATTIC AREA.
8. NEW WALL MOUNTED THERMOSTAT WITH REMOTE DUCT MOUNTED THERMOSTAT. MOUNT AT 48" AFF. VERIFY EXACT LOCATION WITH OWNER.
9. RETURN DUCT MOUNTED REMOTE TEMPERATURE SENSOR FOR THERMOSTAT.
10. NEW 14" X 14" EXHAUST AIR DUCT UP TO NEW ROOF MOUNTED EXHAUST HOOD. DISCHARGE SHALL BE EQUAL TO CARNES MODEL GE, 16" X 16" THROAT SIZE. TRANSITION FROM 14" X 14" DUCT TO 16" X 16" THROAT.
11. NEW OUTDOOR HEAT PUMP MOUNTED ON 4" THICK CONCRETE PAD. PROVIDE ALL MANUFACTURER'S REQUIRED CLEARANCES AROUND UNIT.
12. 6" DIA. RIGID STEEL DUCT UP TO NEW ROOF MOUNTED EXHAUST DISCHARGE CAP. EXHAUST DISCHARGE SHALL BE 10'-0" MIN. FROM ANY OUTSIDE AIR INTAKE.
13. RUN PIPING IN ATTIC SPACE UNLESS OTHERWISE NOTED. (TYPICAL).
14. RUN CONDENSATE PIPING DOWN CONCEALED IN WALL AND STUB OUT AT 6" AFF WITH ELBOW TURNED DOWN IN PLANTED AREA.
15. RUN REFRIGERANT PIPING DOWN TIGHT AGAINST WALL.
16. COVER ALL EXTERIOR REFRIGERANT PIPING INSULATION WITH FACTORY MADE PVC PIPE COVERING AND FITTINGS.
17. RUN NEW OUTSIDE AIR DUCT TO BACK OF GABLE END VENT LOUVER. LOUVER IS BY GENERAL CONTRACTOR.
18. NEW SURFACE MOUNTED NATURAL ANODIZED ALUMINUM SQUARE GRILLES AND DIFFUSERS. SEE SCHEDULE ON SHEET M1 FOR ADDITIONAL INFORMATION.(TYP)

5' 0 1' 2' 3' 4' 5'
GRAPHIC SCALE 1/4" = 1' - 0"

NORTH

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W. S. ARCHITECTS, PA
3305-109 Durham Drive
Raleigh, North Carolina 27603
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ENGINEER
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3305-109 Durham Drive
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919.771.1916 fax: 919.779.0826
email: ben@bdg-nc.com
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NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 22038 BENJAMIN E. BURKE

DocuSigned by:
C937E1EB0F3ADS...
10/28/2026

SCO#: 26-31654-01A

PROJECT TITLE
CURRITUCK CTY
REST AREA
5330 HWY 158
POPULAR BRANCH, NORTH CAROLINA

PROJECT NO.
2204a

DRAWING TITLE
HVAC PLAN

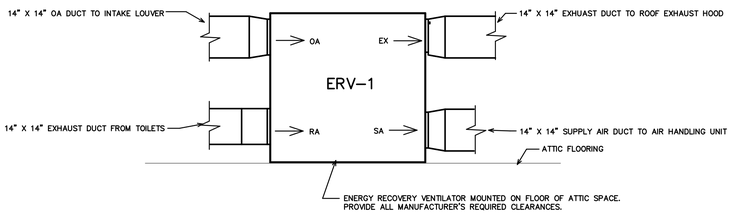
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PLOT DATE 10/27/2026

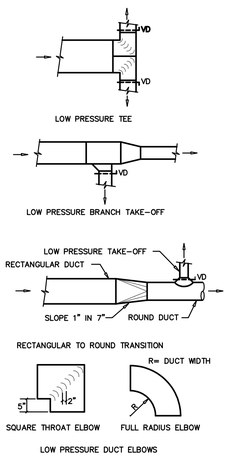
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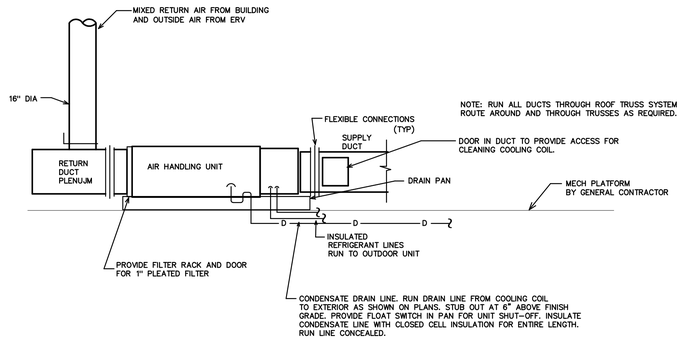
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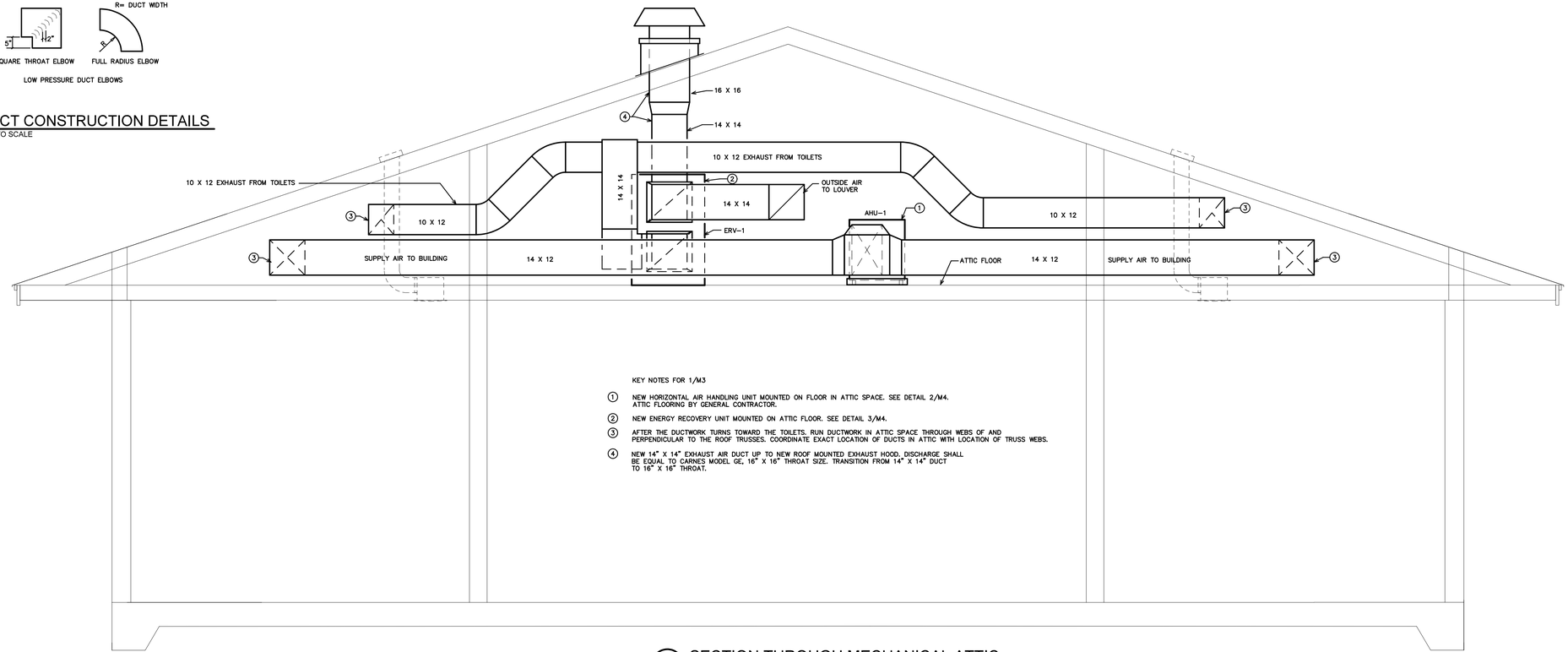
3 ENERGY RECOVERY UNIT DUCT CONNECTION DETAIL
NOT TO SCALE



4 DUCT CONSTRUCTION DETAILS
NOT TO SCALE



2 HORIZONTAL AIR HANDLING UNIT DETAIL
NOT TO SCALE



KEY NOTES FOR 1/M3

1. NEW HORIZONTAL AIR HANDLING UNIT MOUNTED ON FLOOR IN ATTIC SPACE. SEE DETAIL 2/M4. ATTIC FLOORING BY GENERAL CONTRACTOR.
2. NEW ENERGY RECOVERY UNIT MOUNTED ON ATTIC FLOOR. SEE DETAIL 3/M4.
3. AFTER THE DUCTWORK TURNS TOWARD THE TOILETS. RUN DUCTWORK IN ATTIC SPACE THROUGH WEBS OF AND PERPENDICULAR TO THE ROOF TRUSSES. COORDINATE EXACT LOCATION OF DUCTS IN ATTIC WITH LOCATION OF TRUSS WEBS.
4. NEW 14" X 14" EXHAUST AIR DUCT UP TO NEW ROOF MOUNTED EXHAUST HOOD. DISCHARGE SHALL BE EQUAL TO CARNES MODEL GE, 16" X 16" THROAT SIZE. TRANSITION FROM 14" X 14" DUCT TO 16" X 16" THROAT.

1 SECTION THROUGH MECHANICAL ATTIC
SCALE: 1/2" = 1'-0"

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www.wsarchitectspa.com

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CONSULTING ENGINEERS
3305-109 Durham Drive
Raleigh, North Carolina 27603
919.771.1916 fax: 919.779.0826
email: ben@bdg-nc.com
Corp. License # C-2652

NORTH CAROLINA PROFESSIONAL SEAL 22038 ENGINEER BENJAMIN E. BURKE
Docusigned by:
10/28/2026

SCO#: 26-31654-01A

PROJECT TITLE
CURRITUCK CTY REST AREA
5330 HWY 158
POPULAR BRANCH, NORTH CAROLINA

PROJECT NO.
2204a

DRAWING TITLE
HVAC DETAILS

M4

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DIVISION 26 – ELECTRICAL

PART 1 – GENERAL

1.1 DESCRIPTION OF THE WORK

A. Work under this section includes, but is not necessarily limited to, furnishing and installing the following:
   1. Lighting and power distribution system.
   2. Provide lighting fixtures per light fixture schedule with lamps to match.
   3. Wiring devices, boxes, cover plates, etc.
   4. Source of power for all items of equipment.
   5. Grounding.
   6. Other requirements and/or systems where shown.

B. All work shall be complete and items, equipment, etc., shall be electrically connected for proper and correct operation.

C. All work under this contract shall be installed in accordance with the latest edition of the following codes and standards insofar as they apply:
1. The 2020 National Electrical Code.
   2. The National Electrical Safety Code.
   3. Underwriter's Laboratories, Inc., Standards and approved listings or other approved 3rd party listing agency.
   4. Electrical Testing Labatories standards.
   5. 2018 North Carolina State Building Code.
   6. 2018 North Carolina State Energy Code.

D. The Electrical Contractor shall be licensed in the State of North Carolina and have all local licenses required for the work.

E. Local permits are not required. All work must be inspected by the Office of State Construction state electrical inspector and the Engineer of Record. Provide certificate of inspection and approval from the state electrical inspector prior to the final inspection. The electrical contractor is responsible for contacting the state electrical inspector for all required inspections. All scheduling shall be Monday through Friday unless otherwise exempted by SCO

F. All work shall be done by skilled mechanics and shall present a neat, trim, workmanlike condition when complete.

1.2 INTENT

A. The intent of these specifications and the accompanying drawings is to convey as reasonably as possible the requirements for a complete job ready for the building to operate. The Electrical Contractor shall take this into consideration and include in his base bid allowance for contingencies as will allow him to provide minor pieces of equipment and labor not specifically indicated but required for the job to operate properly, at no additional cost to the Owner.

1.3 COORDINATION

A. Coordinate work with other contractors. Notify Architect of apparent conflicts early to expedite construction. If structural damage appears imminent, stop work and notify Architect for a decision before resuming operations.

B. Locations shown are approximate. The drawings do not give exact details as to elevations and locations of various pipes, fittings, ducts, conduit, etc., and do not show all offsets and other installation details which may be required. Coordinate all locations with architect before any rough-in.

1.4 SHOP DRAWINGS

A. Shop drawings shall be submitted for panels and service equipment, lighting, wiring devices, and cover plates. These may consist of the manufacturer's standard catalog or tear sheets and shall have the exact items being offered clearly identified.

PART 2 – PRODUCTS AND MATERIALS

2.1 GENERAL

A. All material shall be new and shall bear the manufacturer's name, trade name, and be third party acceptable to NCDOI listed and labeled where such standard has been established for the particular material. Materials shall be the standard products of manufacturer regularly engaged in the manufacturer of the required type of equipment and the manufacturer's latest approved design. Listed and labeled as defined by NFPA 70, Article 100, by a third-party testing agency. Third party agencies shall be one of those accredited by the NCBCC (North Carolina Code Council) to label electrical mechanical equipment and marked for intended use.
   1. Boxes installed in concealed locations shall be set flush with the finished surfaces.
   2. Provide rated boxes in all fire barriers & walls installed per code.

2.2 CONDUCTORS

A. Conductors shall be color coded, sizes #4 and larger may be color taped on the job. Color coding shall comply with 2017 NEC.

120/240V, 1 phase	208/120V, 3 phase
Phase A– Black	Phase A– Black
Phase B– Red	Phase B– Red
Neutral– White	Chase C– Blue
Ground– Green	Neutral– White
	Ground– Green

480/277V, 3 phase
Phase A– Brown
Phase B– Orange
Chase C– Yellow
Neutral– Natural Gray
Ground– Green

B. Conductors shall be manufactured by Dodge, Southwire, Daycon Systems or approved equal. Conductors shall meet the latest requirements of NEMA and IPCEA and shall be third party acceptable to NCDOI approved.

C. Conductors shall be spliced and taped as follows:
   1. Size #10 and #12, use Ideal "Wing Nuts" or T&B "Piggy" connectors. Connectors shall be rated for 150 degrees C for use in recessed lighting fixtures.
   2. Size #8 and larger shall be solderless screw and screw-clamping type, smoothly covered and shaped with rubber gum type with final cover vinyl plastic electrical type. In lieu of rubber gum and vinyl plastic type, factory fabricated approved preformed insulating covers may be used. All connectors shall be UL approved.
   3. No split-bolt type connectors may be used.

D. All branch wire and connections shall be copper and sized per National Electric Code with a minimum size of #12.

E. All conductors shall be continuous without splice between junction, outlet, device boxes, etc. No splicing will be permitted in panelboard cabinets, safety switches, etc.

F. All wiring in mechanical spaces shall be plenum rated.

G. Provide GFI protection within 6'–0" of any sink.

H. Multi–wire branch circuits are not allowed per SCO Guidelines

2.3 PANELBOARDS, SAFETY SWITCHES

A. Panelboards shall comply with NEMA Standard PB 1 – Latest Edition and as manufactured by Square D or ITE–Siemens. All panel boards must have copper busses and bolt–in breakers.

B. Safety switches shall be heavy duty type, size and rating as required for lead service. Safety switches shall be fused or unfused as shown and/or as required. Safety switches serving motor loads shall be horsepower rated for load served.

2.4 WIRING DEVICES

A. Wiring devices shall be federal specification by Bryant, Leviton, Cooper or approved equal. With matching cover. All exterior devices require "extra–duty" rated weatherproof while in use covers. Color by Architect.

B. Wiring devices installed under a Kitchen Hood shall have stainless steel covers.

C. Wiring devices installed over counters shall comply with ANSI A117.1.

2.7 CONDUIT

A. PVC conduit will be allowed under slab. Provide rigid turn–ups.

B. All exposed conduit shall be rigid steel where exposed to the elements, located less than 8'–0" above grade or where exposed to hazardous conditions.

C. EMT conduit, above slab, concealed or exposed above 8'–0" shall be used through out the project.

D. Metallic sheathed "MC"cable should not be used for this project, without designer authorization. MC cable is allowed for light whips 6'–0" or less and where concealed with–in existing construction to minimize demolition work. If used, MC cable shall be 1/2" with minimum #12 AWG copper wire and green insulated copper ground.

PART 3 – EXECUTION

3.1 CIRCUIT GROUNDING

A. All circuits shall contain an insulated, green, copper grounding conductor, sized in accordance with Table 250–122 of the NEC. Grounding conductors shall be connected to equipment grounding bus in panelboard and securely attached and grounded to the device or enclosure at the other end.

3.2 GROUNDING TYPE CONVENIENCE OUTLETS AND SWITCHES

A. Outlets and switches shall be solidly grounded to equipment grounding system with a green colored insulated conductor. Electrical connections shall be continuous from equipment ground bus in panelboard to the hex nut on the convenience outlet or switch.

3.3 MOTORS

A. All motors shall be connected to conduit system with short length (minimum length 24" and maximum length 36") of flexible liquidtight conduit.

3.4 EQUIPMENT LABELING

A. Provide permanent penolic plastic name plates for all panelboards, safety switches, wiring troughs, etc., for identification of equipment controlled, services, etc. Nameplates shall be securely and permanently attached to equipment with stainless steel screws. Nameplates shall include the name of the equipment and where it is fed from.
Color Coding– Color Coding–
Blue surface with white core– 120/240v equipment
Black surface with white core– 277/480v equipment
Bright red surface with white core– fire alarm systems
Dark red surface with white core– security systems
Green surface with white core– "emergency" systems
Orange surface with white core– telephone systems
Brown surface with white core– data systems
White surface with black core– paging systems
Purple surface with white core– TV systems

B. All switch plates, receptacle plates and outlet covers shall be labeled with machine printed vinyl labels identifying the circuit(s) within.

C. All empty conduit runs shall be identified and indicated where they terminate.

D. Provide typewritten directory in each panelboard to clearly identify each circuit, service, etc.

3.5 JUNCTION AND/OR PULL BOXES

A. Boxes shall be installed where necessary to avoid excessive runs and/or too many bends between outlets.

3.6 PULL WIRE

A. Leave pull wire in each empty conduit run.

3.7 GROUNDING

A. All grounding shall be in accordance with Article 250 of the NEC. In addition, the following requirements shall be met:
   1. Grounding conductors shall be installed as to permit the shortest and most direct path from equipment to ground. All connections to grounding conductors shall be accessible.
   2. Equipment ground continuity shall be maintained through flexible metal conduit.
   3. All wiring devices equipped with grounding connection shall be solidly grounded to ground system with grounding conductors.
   4. The frame of all lighting fixtures shall be securely grounded to the equipment ground system with grounding conductors.
   5. All equipment enclosures, and non–current–carrying metallic parts of electrical equipment, raceway systems, etc., shall be effectively and adequately bonded to ground.
   6. All equipment enclosures, and non–current–carrying metallic parts of electrical equipment, raceway systems, etc., shall be effectively and adequately bonded to ground.
   7. The raceway system shall not be relied on for ground continuity A green grounding conductor, properly sized per NEC table 250–122, shall be run in all power raceways.
   8. Provide ground resistance testing for all service grounds upon completion of grounding & bonding system per 2020 SCO guidelines 26 08 00 B

3.8 ELECTRICAL WORK IN CONNECTION WITH OTHER WORK

A. The trade(s) furnishing equipment will provide disconnect switches, motor starters, and make final equipment connections. ELECTRICAL CONTRACTOR will make line side connections to disconnect switches or motor starters.

3.9 CLEAN UP

A. During construction, keep the site clean of debris. Upon completion, and before final inspection, clean up the premises to remove all evidence of work. In addition upon completion of construction leave equipment clean.

3.10 GUARANTEE

A. Guarantee all materials and labor included in the electrical work for a period of one year from date of final acceptance by the Owner. Any part or parts of the work or equipment which prove to be defective during the guarantee period shall be replaced at no additional cost to the Owner.

GENERAL NOTES

1 ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES HAVING JURISDICTION.

2 ALL BRANCH CIRCUIT CONDUCTORS TO BE COPPER (SERVICE CONDUCTORS MAY BE ALUMINUM WITH SAME AMPACITY AS COPPER CONDUCTORS. RE–SIZE CONDUCTERS AND CONDUIT PER NEC.)

3 ALL CIRCUITS TO BE 2 #12, 1 #12 GND IN 1/2" EMT CONDUIT AS A MINIMUM. PROVIDE WIRING FOR LARGER CIRCUITS AS REQUIRED BY NEC. RIGID CONDUIT IS REQUIRED WHERE EXPOSED BELOW 8'–0" A.F.F.

4 ALL EMPTY CONDUIT RUNS IN EXCESS OF 10 FEET SHALL BE PROVIDED WITH A PULL WIRE OR FISH TAPE/CORD.

5 CONTRACTOR SHALL VERIFY THAT ALL DOOR SWINGS ARE CORRECT BEFORE INSTALLING LIGHT SWITCH OUTLETS.

6 ALL BRANCH CIRCUIT CONDUCTORS FROM THE PANEL TO THE FIRST OUTLET SHALL BE INCREASED TO THE NEXT LARGER SIZE WHERE THE LENGTH OF THE HOME RUN EXCEEDS 120 FEET ON 120V AND 208V CIRCUITS.

7 THE CORRECT NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL CIRCUITS, ONLY THOSE WHERE CLARIFICATION IS NECESSARY. THE ELECTICAL CONTRACTOR SHALL PROVIDE ALL WIRES NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM WHETHER INDICATED ON DRAWINGS OR NOT.

8 THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTLY PHASING THE CIRCUITS IN THE PANELBOARDS.

9 THE ELECTRICAL CONTRACTOR SHALL VERIFY THE TYPE OF CEILING SYSTEM WITH THE GENERAL CONTRACTOR TO INSURE THAT ALL LIGHTING FIXTURES ARE COMPATIBLE WITH THE CEILING SYSTEM BEING INSTALLED. LIGHTING FIXTURES SHOULD NOT BE ORDERED UNTIL TYPE OF CEILING HAS BEEN VERIFIED.

10 ELECTRICAL REQUIREMENTS INDICATED ON DRAWINGS MAY DIFFER FROM ACTUAL EQUIPMENT FURNISHED. IF FURNISHED EQUIPMENT DIFFERS FROM RATINGS ON DRAWINGS CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER FOR APPROPRIATE ACTION TO BE TAKEN.

11 IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE EXACT BREAKER REQUIREMENTS FOR ALL EQUIPMENT PRIOR TO ORDERING PANEL. ADJUST BREAKER AND WIRE SIZES AS REQUIRED.

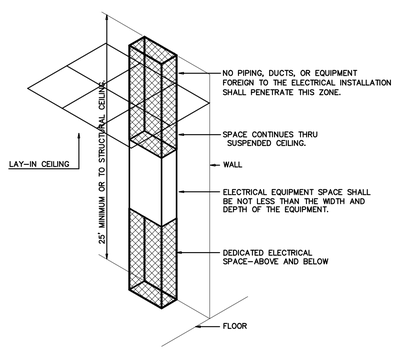
12 PROVIDE BOXES, JACKS, WIRING AND CONDUIT FROM LOCATIONS SHOWN TO MTP LOCATION. VERIFY EXACT REQUIREMENTS WITH OWNER.

13 ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DISCONNECTS FOR MECHANICAL & PLUMBING EQUIPMENT. DISCONNECTS SHALL BE PER MANUFACTURES RECOMMENDATIONS AND FUSED PER NAME PLATE. PROVIDE NEMA 3R ENCLOSURES ON EXTERIOR. COORDINATE FUSE SIZES.

14 THE EC SHALL MEET WITH THE ARCHITECT AND TENANT PRIOR TO INSTALLING OUTLET BOXES TO VERIFY LOCATIONS AND MOUNTING HEIGHTS OF RECEPTACLES AND TELEPHONE OUTLETS.

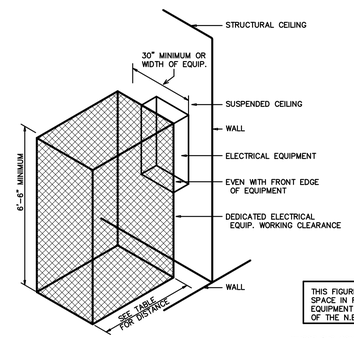
ELECTRICAL LEGEND

X / O_X / X	LIGHT FIXTURE: LETTER DENOTES FIXTURE TYPE (REFER TO LIGHTING PLAN AND FIXTURE SCHEDULE). NL = NIGHT LIGHT (NOT SWITCHED/ALWAYS ON)
U WP/GFI	DUPLEX RECEPTACLE – 120V; MOUNT 18" TO CENTER AFF UNLESS NOTED OTHERWISE; 'WP' INDICATES WEATHER PROOF, 'GFI' INDICATES GROUND FAULT CURRENT INTERRUPT PROTECTED. 'U' INDICATES RECEPTACLE WITH (2) USB PORTS.
	QUADRAPLEX RECEPTACLE – 120V
	FLOOR OR CEILING OUTLET (AS NOTED) – 120V
	SPECIAL PURPOSE RECEPTACLE – REFER TO POWER PLAN AND PANEL SCHEDULE
S	LIGHT SWITCH
S_M	SWITCH WITH INTEGRAL PIR/US MOTION SENSOR FOR AUTOMATIC SHUT–OFF WITH UP TO 2 HOUR ADJUSTABLE DELAY.
S_D	DIMMABLE LIGHT SWITCH
(S)	MOTOR RATED SWITCH
(J)	JUNCTION BOX
	TELE/DATA OUTLET – PROVIDE JUNCTION BOX WITH CONDUIT BACK TO MTP. PROVIDE (1) TELEPHONE JACK AND (1) CAT 5 DATA JACK
	SINGLE–POLE HOMERUN TO PANELBOARD
	TWO–POLE OR 3–POLE HOMERUN TO PANELBOARD
EXIT	EXIT LIGHT
	EMERGENCY EGRESS FIXTURE
PC	PHOTOCELL (LED COMPLIANT)
	BRANCH CIRCUIT WIRING
	SWITCH LEG
	GROUND CONNECTION
PANEL A	DISTRIBUTION PANELBOARD
	HEAVY DUTY DISCONNECTING MEANS AS REQUIRED BY CODE



ELECTRICAL EQUIPMENT DEDICATED SPACE
PER ARTICLE 110.26.F.1 OF N.E.C.

1 DEDICATED SPACE
SCALE: NTS



ELECTRICAL EQUIPMENT WORKING CLEARANCE
PER ARTICLE 110–26 OF N.E.C.

WORKING CLEARANCES			
VOLTAGE TO GROUND NOMINAL	MIN. CLEAR DISTANCE IN FEET		
CONDITION:	1	2	3
0–150	3	3	3
151–600	3	3–1/2	4

THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF THE ELECTRICAL EQUIPMENT REQUIRED BY SECTION 110–16 OF THE N.E.C.

WHERE THE CONDITIONS ARE AS FOLLOWS:

1 EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR INSULATED BUSBARS OPERATING AT NOT OVER 300V SHALL NOT BE CONSIDERED LIVE PARTS.

2 EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.

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

2 ELECTRICAL CLEARANCES
SCALE: NTS

APPENDIX B

2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)
ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance

Energy Code:	Prescriptive	[X]	Energy Cost Budget	[ ]
ASHRAE 90.1:	Prescriptive	[ ]	Energy Cost Budget	[ ]

Lighting Schedule

lamp type required in fixture
number of lamps in fixture
ballast type used in fixture
number of ballasts in fixture
total wattage in fixture — See Light Fixture Schedule
total interior wattage specified vs. allowed — 5214VA / 5568VA
total exterior wattage specified vs. allowed — 742VA / 750VA

Additional Prescriptive Compliance

- [ ] 506.2.1 More Efficient Mechanical Equipment
- [X] 506.2.2 Reduced Lighting Power Density
- [ ] 506.2.3 Energy Recovery Ventilation Systems
- [ ] 506.2.4 Higher Efficiency Service Water Heater
- [ ] 506.2.5 On–Site Supply of Renewable Energy
- [ ] 506.2.6 automatic Daylighting Control System

WEEKS SUMMER ARCHITECTS

W. S. ARCHITECTS, PA
3305-109 Durham Drive
Raleigh, North Carolina 27603
919.779.9797
www.wsarchitectspa.com

ENGINEER
BURKE DESIGN GROUP, PA
CONSULTING ENGINEERS
3305-109 Durham Drive
Raleigh, North Carolina 27603
919.771.1916 fax: 919.779.0826
email: ben@bdg-nc.com
Corp. License # C-2652

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 22038 BENJAMIN E. BURKE
DocuSigned by: 10/28/2026
10/28/2026

SCO#: 26–31654–01A

PROJECT TITLE
CURRITUCK CTY REST AREA
5330 HWY 158
POPULAR BRANCH, NORTH CAROLINA

PROJECT NO.
2204a

DRAWING TITLE
ELECTRICAL NOTES

E1

PLOT DATE 10/27/2026

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Currituck County Rest Area E2

WALL LEGEND

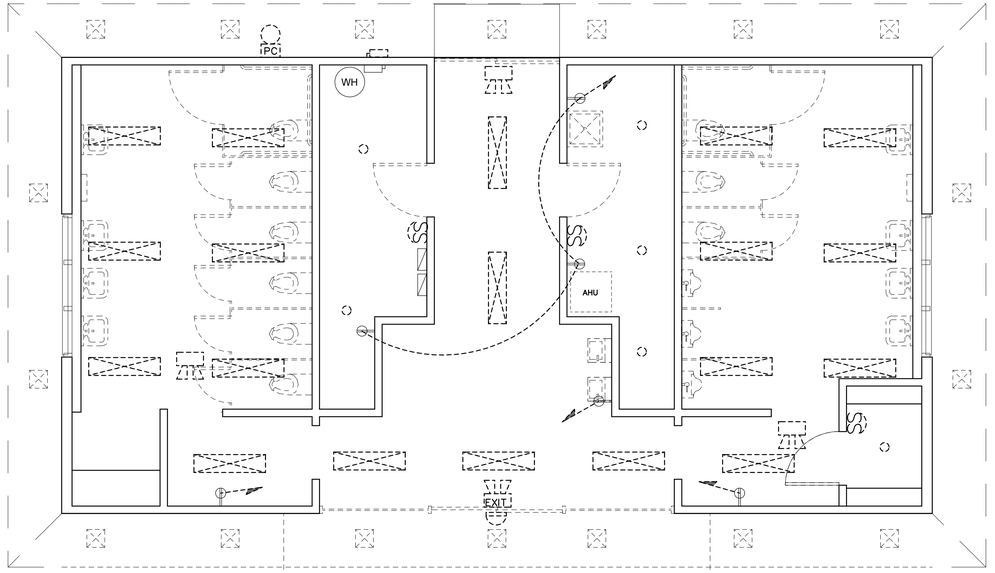
EXISTING WALL TO REMAIN

EXISTING WALL TO BE REMOVED

NOTE:
THE INFORMATION SHOWN ON THIS DRAWING IS FROM A FIELD INVESTIGATION.
THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION.
THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES NOTED.

THE SCOPE OF DEMOLITION IS AS FOLLOWS–

REMOVE ALL LIGHTING/DEVICES AND CIRCUITS BACK TO THE PANEL UNLESS OTHERWISE NOTED.
ALL LIGHTS NOTED AS REMAINING SHALL BE CLEANED AND RE–LAMPED.
REMOVE ALL DEMO'ED LIGHT FIXTURES AND PROPERLY DISPOSE OF ALL FIXTURES, BALLASTS, ETC.
REFEED ANY DEVICES REMAINING DOWN LINE FROM REMOVED DEVICE.
REMOVE ALL WIRING AND CONDUITS BACK TO CONCEALED JUNCTION POINT.



= EXISTING FIXTURE TO REMAIN

= EXISTING FIXTURE TO BE RELOCATED/REMOVED

1 DEMO ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

5' 0 1' 2' 3' 4' 5'
GRAPHIC SCALE 1/4" = 1' - 0"

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WEEKS SUMMER ARCHITECTS

W. S. ARCHITECTS, PA
3305-109 Durham Drive
Raleigh, North Carolina 27603
919.779.9797
www.wsarchitectspa.com

ENGINEER
BURKE DESIGN GROUP, PA
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3305-109 Durham Drive
Raleigh, North Carolina 27603
919.771.1916 fax: 919.779.0826
email: ben@bdg-nc.com
Corp. License # C-2652

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Docusigned by:
10/28/2026

SCO#: 26–31654–01A

PROJECT TITLE
CURRITUCK CTY REST AREA
5330 HWY 158
POPULAR BRANCH, NORTH CAROLINA

PROJECT NO.
2204a

DRAWING TITLE
DEMO PLAN

E2

PLOT DATE 10/27/2026

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Currituck County Rest Area S

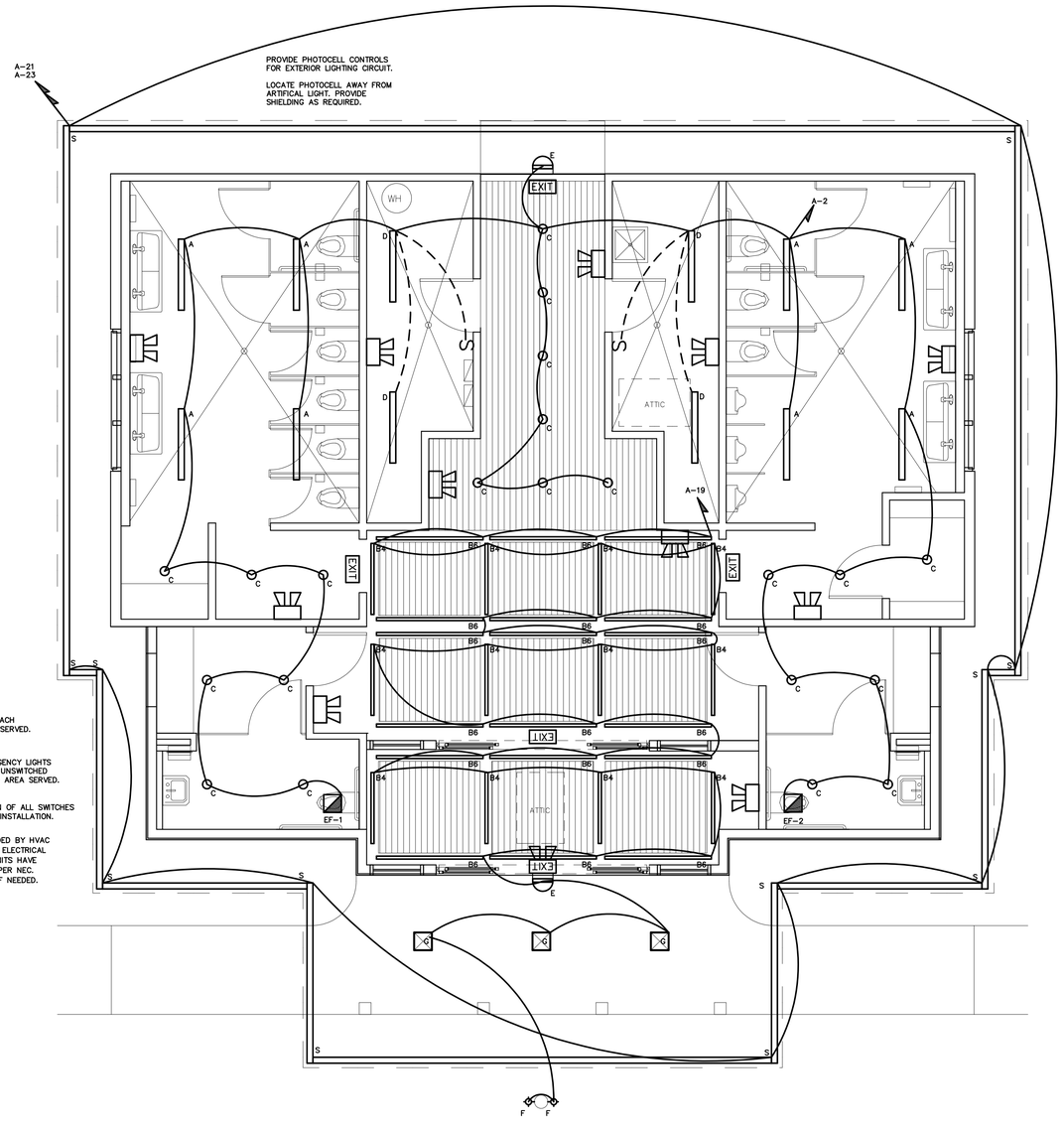
LIGHTING SCHEDULE *

MARK	MANUFACTURER	CATALOG NO.	VOLT.	LAMPS NO.	LAMPS TYPE	LAMPS W	BALLAST TYPE	W/ FIXTURE	REMARKS
A1	FINELITE	HP4-S-D-4-S-835-F-120	120	–	LED	–	–	36	4" WIDE 4' LED SURFACE MOUNT DECORATIVE STRIP LIGHT ** *
B4	FINELITE	HP2-S-D-4-S-835-F-120	120	–	LED	–	–	36	2" WIDE 4' LED SURFACE MOUNT DECORATIVE STRIP LIGHT ** *
B6	FINELITE	HP2-S-D-6-S-835-F-120	120	–	LED	–	–	54	2" WIDE 6' LED SURFACE MOUNT DECORATIVE STRIP LIGHT ** *
C	JUNO	JSF 5IN 07LM SWW5 90CRI MVOLT ZT	120	–	LED	–	–	10	SURFACE MOUNT LED PUCK DOWNLIGHT ** *
D	COLUMBIA	MPS4-35LW-CW-EDU	120	–	LED	–	–	27	4' LED STRIP FIXTURE *
E	EXITRONIX	NF5	120	–	LED	–	–	17	EXTERIOR NORMAL/EMERGENCY LIGHT FIXTURE W/ INTEGRAL PHOTOCELL *
F	KIM	EL700S3/12L4KUV1	120	–	LED	–	–	9	STANCHION MOUNT FLAGPOLE LIGHT, ANGLE ADJUSTED IN FIELD, WET LOCATION *
G	JUNO	JSFSQ 14IN 18M SWW5 90 CRI MVOLT WH	120	–	LED	–	–	28	14" SQUARE LED FIXTURE, WET LOCATION ** *
S	ALCON	12100-8-R-CR-HD-LP-35K-BZ	120	–	LED	–	–	8W/FT	1" WIDE RECESSED LED STRIP, WET LOCATION, VERIFY RUN LENGTH PRIOR TO BID ** *
EXIT	EXITRONIX	902EX-U	120	–	LED	–	–	2	LED EXIT SIGN, COLOR BY ARCH *
EXIT	EXITRONIX	P900C-RG-S-WH-G2	120	–	LED	–	–	4	COMBINATION EMERGENCY LIGHT *
	EXITRONIX	NF2	120	–	LED	–	–	10	EMERGENCY LIGHT, BATTERY BACKUP, BATTERY DIAGNOSTICS, COLOR BY ARCH *

* OTHER APPROVED BRANDS ARE LEVITON, ULINE, COOPER, PRESCOLITE, AND MULE. PROVIDE CUT SHEETS FOR OWNER APPROVAL PRIOR TO ORDERING FIXTURES. CATALOG NUMBERS ARE FOR REFERENCE ONLY, ACTUAL NUMBERS MAY VARY.

** REMOTE DRIVER, PLACE IN UTILITY ATTIC IN ACCESSIBLE LOCATION FOR SERVICE

THE EMERGENCY LIGHTS AND EXIT SIGNS MUST HAVE INTEGRAL BATTERIES, CHARGERS AND TEST SWITCHES.



NOTE:
PROVIDE LABELING ON EACH SWITCH NOTING CIRCUIT SERVED.

TIE ALL EXIT AND EMERGENCY LIGHTS TO NEAREST AVAILABLE UNSWITCHED LIGHTING CIRCUIT IN THE AREA SERVED.

VERIFY HEIGHT/LOCATION OF ALL SWITCHES AND DEVICES PRIOR TO INSTALLATION.

EXHAUST FAN(S) PROVIDED BY HVAC CONTRACTOR. WIRED BY ELECTRICAL CONTRACTOR. VERIFY UNITS HAVE DISCONNECTING MEANS PER NEC. PROVIDE DISCONNECTS IF NEEDED.

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

5' 0 1' 2' 3' 4' 5'
GRAPHIC SCALE 1/4" = 1' - 0"

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WEEKS SUMMER ARCHITECTS

W. S. ARCHITECTS, PA
3305-109 Durham Drive
Raleigh, North Carolina 27603
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919.771.1916 fax: 919.779.0826
email: ben@bdg-nc.com
Corp. License # C-2652

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 22038 BENJAMIN E. BURKE

DocuSigned by:
C937E1F880F3405...
10/28/2026

SCO#: 26-31654-01A

PROJECT TITLE
CURRITUCK CTY REST AREA
5330 HWY 158
POPULAR BRANCH, NORTH CAROLINA

PROJECT NO.
2204a

DRAWING TITLE
LIGHTING PLAN

E3

PLOT DATE 10/27/2026

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Currituck County Rest Area EV

LIGHTING SCHEDULE *

MARK	MANUFACTURER	CATALOG NO.	VOLT.	LAMPS NO.	LAMPS TYPE	LAMPS W	BALLAST TYPE	W/ FIXTURE	REMARKS
A1	FINELITE	HP4-S-D-4-S-835-F-120	120	–	LED	–	–	36	4" WIDE 4' LED SURFACE MOUNT DECORATIVE STRIP LIGHT ** *
B4	FINELITE	HP2-S-D-4-S-835-F-120	120	–	LED	–	–	36	2" WIDE 4' LED SURFACE MOUNT DECORATIVE STRIP LIGHT ** *
B6	FINELITE	HP2-S-D-6-S-835-F-120	120	–	LED	–	–	54	2" WIDE 6' LED SURFACE MOUNT DECORATIVE STRIP LIGHT ** *
C	JUNO	JSF 5IN 07LM SWW5 90CRI MVOLT ZT	120	–	LED	–	–	10	SURFACE MOUNT LED PUCK DOWNLIGHT ** *
D	COLUMBIA	MPS4-35LW-CW-EDU	120	–	LED	–	–	27	4' LED STRIP FIXTURE *
E	EXITRONIX	NF5	120	–	LED	–	–	17	EXTERIOR NORMAL/EMERGENCY LIGHT FIXTURE W/ INTEGRAL PHOTOCELL *
G	JUNO	JSFSQ 14IN 18M SWW5 90 CRI MVOLT WH	120	–	LED	–	–	28	14" SQUARE LED FIXTURE, WET LOCATION ** *
S	ALCON	12100-8-R-CR-HD-LP-35K-BZ	120	–	LED	–	–	8W/FT	1" WIDE RECESSED LED STRIP, WET LOCATION, VERIFY RUN LENGTH PRIOR TO BID ** *
EXIT	EXITRONIX	902EX-U	120	–	LED	–	–	2	LED EXIT SIGN, COLOR BY ARCH *
EXIT	EXITRONIX	P900C-RG-S-WH-G2	120	–	LED	–	–	4	COMBINATION EMERGENCY LIGHT *
	EXITRONIX	NF2	120	–	LED	–	–	10	EMERGENCY LIGHT, BATTERY BACKUP, BATTERY DIAGNOSTICS, COLOR BY ARCH *

* OTHER APPROVED BRANDS ARE LEVITON, ULINE, COOPER, PRESCOLITE, AND MULE. PROVIDE CUT SHEETS FOR OWNER APPROVAL PRIOR TO ORDERING FIXTURES. CATALOG NUMBERS ARE FOR REFERENCE ONLY, ACTUAL NUMBERS MAY VARY.

** REMOTE DRIVER, PLACE IN UTILITY ATTIC IN ACCESSIBLE LOCATION FOR SERVICE

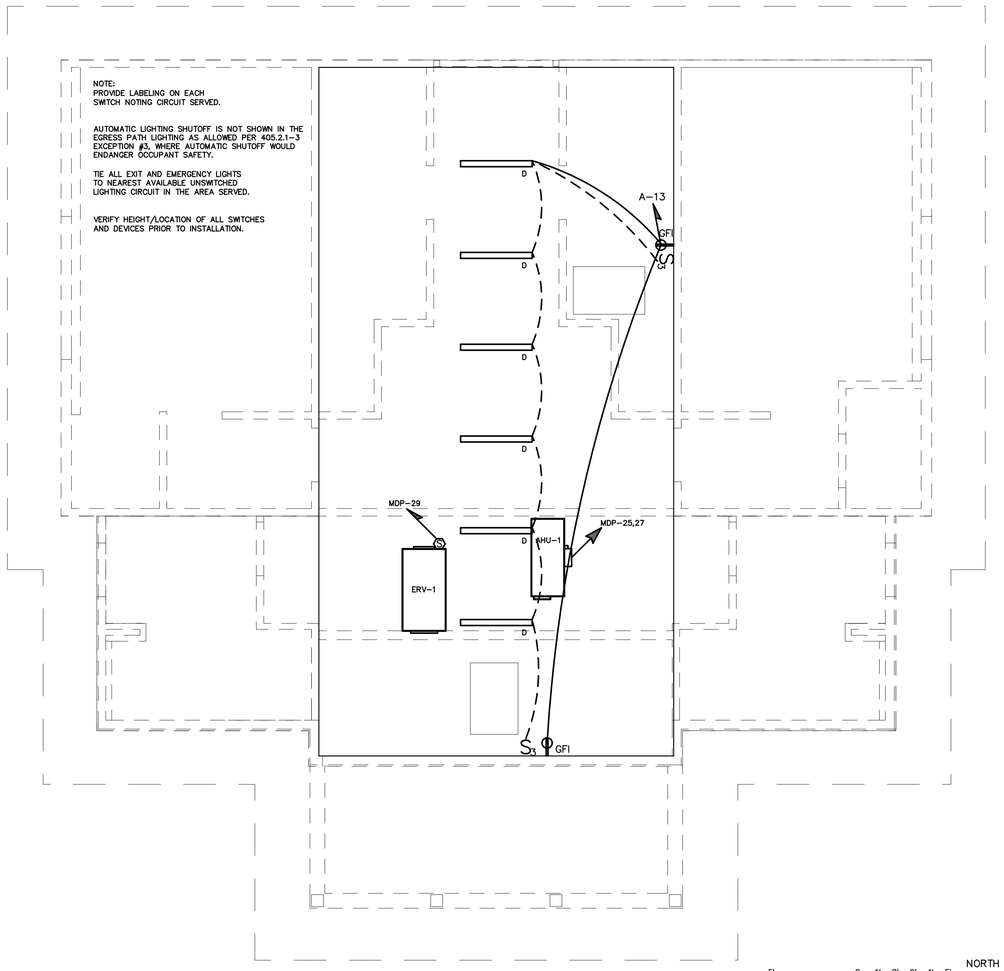
THE EMERGENCY LIGHTS AND EXIT SIGNS MUST HAVE INTEGRAL BATTERIES, CHARGERS AND TEST SWITCHES.

NOTE:
PROVIDE LABELING ON EACH SWITCH NOTING CIRCUIT SERVED.

AUTOMATIC LIGHTING SHUTOFF IS NOT SHOWN IN THE EGRESS PATH LIGHTING AS ALLOWED PER 405.2.1-3 EXCEPTION #3, WHERE AUTOMATIC SHUTOFF WOULD ENDANGER OCCUPANT SAFETY.

TIE ALL EXIT AND EMERGENCY LIGHTS TO NEAREST AVAILABLE UNSWITCHED LIGHTING CIRCUIT IN THE AREA SERVED.

VERIFY HEIGHT/LOCATION OF ALL SWITCHES AND DEVICES PRIOR TO INSTALLATION.



1 ATTIC ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

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

WEEKS SUMMER ARCHITECTS

W. S. ARCHITECTS, PA
3305-109 Durham Drive
Raleigh, North Carolina 27603
919.779.9797
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3305-109 Durham Drive
Raleigh, North Carolina 27603
919.771.1916 fax: 919.779.0826
email: ben@bdg-nc.com
Corp. License # C-2652

NORTH CAROLINA PROFESSIONAL SEAL 22038 ENGINEER BENJAMIN E. BURKE

DocuSigned by:
10/28/2026

SCO#: 26-31654-01A

PROJECT TITLE
CURRITUCK CTY
REST AREA
5330 US 158
POPULAR BRANCH, NORTH CAROLINA

PROJECT NO.
2204a

DRAWING TITLE
ATTIC ELEC. PLAN

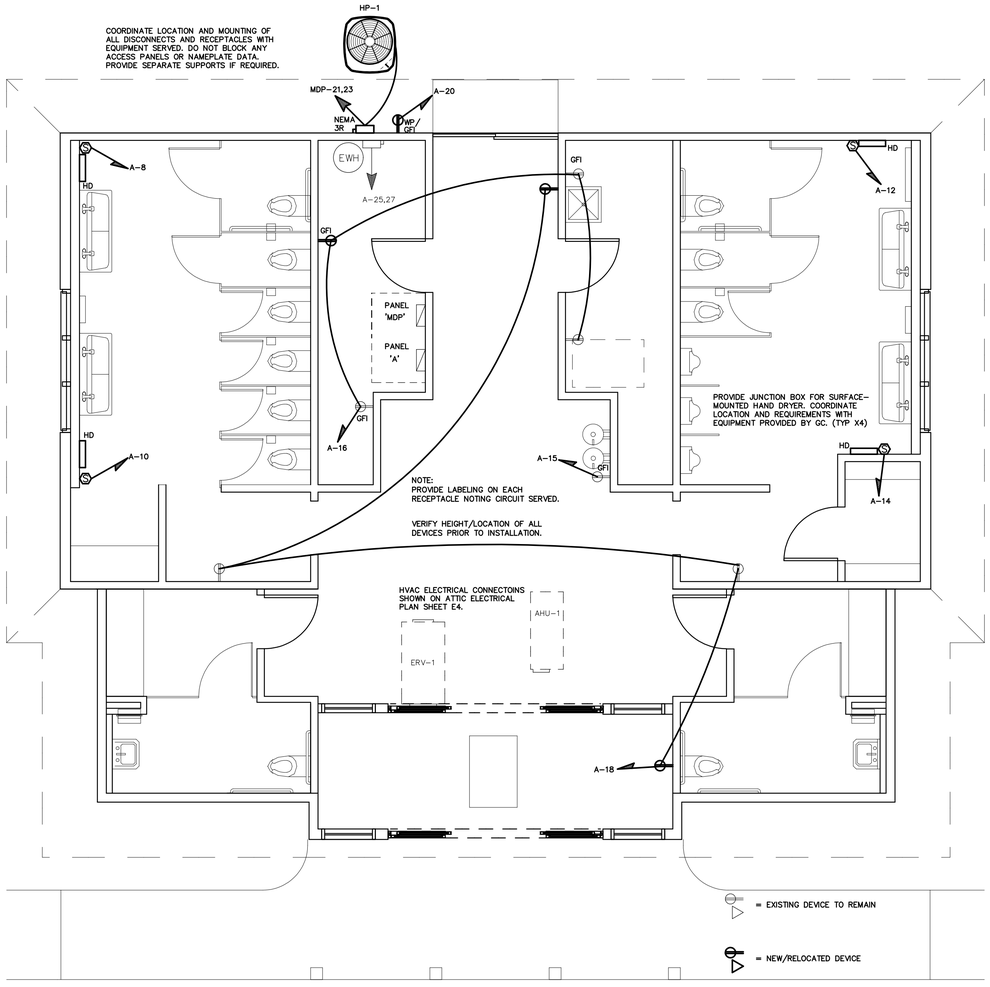
E4

PLOT DATE 10/27/2026

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

5' 0 1' 2' 3' 4' 5'
GRAPHIC SCALE 1/4" = 1' - 0"

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W. S. ARCHITECTS, PA
3305-109 Durham Drive
Raleigh, North Carolina 27603
919.779.9797
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ENGINEER
BURKE DESIGN GROUP, PA
CONSULTING ENGINEERS
3305-109 Durham Drive
Raleigh, North Carolina 27603
919.771.1916 fax: 919.779.0826
email: ben@bdg-nc.com
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C2076197B0F3403...
10/28/2026

SCO#: 26-31654-01A

PROJECT TITLE
CURRITUCK CTY
REST AREA
5330 US 158
POPULAR BRANCH, NORTH CAROLINA

PROJECT NO.
2204a

DRAWING TITLE
POWER PLAN

E5

PLOT DATE 10/27/2026

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Currituck County Rest Area E6

EXIS. PANEL 'MDP'

MAKE: SQUARE D | TYPE: NQOB | RATING: 120/240 1 PHASE 3 WIRE | MOUNTING: SURFACE | MINIMUM AIC: VERIFY | 300A MAIN CIRCUIT BREAKER | EQUIPMENT GROUND BUS ☒YES ☐NO | SERVICE ENTRY RATED ☐YES ☒NO

LOAD SERVICE	CKT BRKR	WATTS PER PHASE A	WATTS PER PHASE B	CKT NO	NEUTRAL A B	CKT NO	WATTS PER PHASE A	WATTS PER PHASE B	CKT BRKR	LOAD SERVICE
SPACE		---		1		2	---			SPACE
SPACE			---	3		4		---		SPACE
SPACE		---		5		6	---			SPACE
SPACE			---	7		8		---		SPACE
SPACE		---		9		10	---			SPACE
SPACE			---	11		12		---		SPACE
SPACE		---		13		14	---			SPACE
SPACE			---	15		16		---		SPACE
SPARE	20A	---		17		18	---			SPACE
.			---	19		20		---		SPACE
A/C UNIT	50A	---		21		22	---		100A	WATER CHLORINATOR
.			---	23		24		---		.
FURNACE	150A	---		25		26	---		150A	PANEL 'A'
.			---	27		28		---		.
SPACE		---		29		30	---			SPACE
NOTES	SUB-TOTALS 'B'	---	---		300A BUS		---	---		SUB-TOTALS 'A'
					300A LUGS		---	---		SUB-TOTALS 'B'
					300A FEED		---	---		GRAND TOTAL
					VERIFY SIZE		--A	--A		AMPS/PHASE

TOTAL CONNECTED LOAD

Currituck County Rest Area E6

REVISED PANEL 'MDP'

MAKE: SQUARE D | TYPE: NQOB | RATING: 120/240 1 PHASE 3 WIRE | MOUNTING: SURFACE | MINIMUM AIC: VERIFY | 300A MAIN CIRCUIT BREAKER | EQUIPMENT GROUND BUS ☒YES ☐NO | SERVICE ENTRY RATED ☐YES ☒NO

LOAD SERVICE	CKT BRKR	WATTS PER PHASE A	WATTS PER PHASE B	CKT NO	NEUTRAL A B	CKT NO	WATTS PER PHASE A	WATTS PER PHASE B	CKT BRKR	LOAD SERVICE
SPACE		---		1		2	---			SPACE
SPACE			---	3		4		---		SPACE
SPACE		---		5		6	---			SPACE
SPACE			---	7		8		---		SPACE
SPACE		---		9		10	---			SPACE
SPACE			---	11		12		---		SPACE
SPACE		---		13		14	---			SPACE
SPACE			---	15		16		---		SPACE
SPARE	20A	---		17		18	---			SPACE
.			---	19		20		---		SPACE
HP-1	50A	3012		21		22	7800		100A	WATER CHLORINATOR
.			3012	23		24		7800		.
AHU-1	60A	5616		25		26	10304		150A	PANEL 'A'
.			5616	27		28		11536		.
ERV-1	35A	3108		29		30	---			SPACE
NOTES	SUB-TOTALS 'B'	11736	8628		300A BUS		18104	19336		SUB-TOTALS 'A'
EXISTING CIRCUIT/BREAKER TO REMAIN					300A LUGS		11736	8628		SUB-TOTALS 'B'
NEW/ REVISED CIRCIUT/BREAKER					300A FEED		29840	27964		GRAND TOTAL
					VERIFY SIZE		249A	233A		AMPS/PHASE

TOTAL CONNECTED LOAD

NEC ALLOWABLE DEMAND FACTORS

1. DEMAND FACTORS PER NEC 220
2. LARGEST OF: NEC TABLE 220.12 OR CONNECTED LOAD
3. NEC TABLE 220.56
4. NEC 220.51
5. NEC 220.43A, 200 VA/LINEAR FT
6. NON-COINCIDENT LOADS, LARGEST OF THE TWO LOADS IS COUNTED

DIVERSIFIED LOAD SUMMARY

LOAD TYPE		DEMAND FACTOR①	A	B	TOTAL DIVERSIFIED LOAD
GENERAL LIGHTING	②	125%	3418	3748	7166
TRACK LIGHTING		125%	---	---	---
GENERAL USE	≤10KVA/BOOK	100%	720	900	1620
RECEPTACLES	>10KVA/BOOK	125%	---	---	---
MOTORS AND EQUIPMENT	LARGEST	125%	3885	3345	7230
	ALL OTHERS	100%	5328	2652	7980
WATER HEATERS		125%	2813	2813	5626
KITCHEN EQUIPMENT	③	100%	---	---	---
FIX. ELEC. SPACE HEAT.	④	100%	4800	4800	9600
SHOW WINDOW LIGHTS	⑤	125%	---	---	---
SIGN		125%	---	---	---
MISC		100%	10900	11688	22588
PHASE (TOTAL VA)			31864	29946	61810
		TOTAL AMPS	266A	250A	VOLT AMPS / VOLTS = 258A TOTAL AMPS

Currituck County Rest Area E6

EXIS. PANEL 'A'

FED FROM: PANEL MDP

MAKE: SQUARE D | TYPE: NQOB | RATING: 120/240 1 PHASE 3 WIRE | MOUNTING: SURFACE | MINIMUM AIC: VERIFY | 150A MAIN CIRCUIT BREAKER | EQUIPMENT GROUND BUS ☒YES ☐NO | SERVICE ENTRY RATED ☐YES ☒NO

LOAD SERVICE	CKT BRKR	WATTS PER PHASE A	WATTS PER PHASE B	CKT NO	NEUTRAL A B	CKT NO	WATTS PER PHASE A	WATTS PER PHASE B	CKT BRKR	LOAD SERVICE
ROADWAY LIGHTING	20A	---		1		2	---		20A	OUTSIDE BLG. LIGHTS
ROADWAY LIGHTING	20A		---	3		4		---	20A	EX. FAN
ROADWAY LIGHTING	20A	---		5		6	---		20A	WOMENS RESTROOM LIGHTS
ROADWAY LIGHTING	20A		---	7		8		---	20A	MENS RESTROOM LIGHTS
ROADWAY LIGHTING	20A	---		9		10	---		20A	UTILITY ROOM LIGHTS
ROADWAY LIGHTING	20A		---	11		12		---	20A	SPARE
ATTIC LIGHTS	20A	---		13		14	---		20A	SPARE
SPARE	20A		---	15		16		---	20A	UTILITY ROOM REC.
ROADWAY LIGHTING CONTROL	20A	---		17		18	---		20A	TOILET REC.
SPARE	20A		---	19		20		---	20A	SPARE
SPARE	20A	---		21		22	---		20A	DOOR OPENER DOUBLE DOOR
.			---	23		24		---		.
EWH	30A	---		25		26	---		30A	DOOR OPENER SINGLE BACK DOOR
.			---	27		28		---		.
NOTES	SUB-TOTALS 'B'	---	---		150A BUS		---	---		SUB-TOTALS 'A'
					150A LUGS		---	---		SUB-TOTALS 'B'
					150A FEED		---	---		GRAND TOTAL
					VERIFY SIZE		--A	--A		AMPS/PHASE

TOTAL CONNECTED LOAD

Currituck County Rest Area E6

REVISED PANEL 'A'

FED FROM: PANEL MDP

MAKE: SQUARE D | TYPE: NQOB | RATING: 120/240 1 PHASE 3 WIRE | MOUNTING: SURFACE | MINIMUM AIC: VERIFY | 150A MAIN CIRCUIT BREAKER | EQUIPMENT GROUND BUS ☒YES ☐NO | SERVICE ENTRY RATED ☐YES ☒NO

LOAD SERVICE	CKT BRKR	WATTS PER PHASE A	WATTS PER PHASE B	CKT NO	NEUTRAL A B	CKT NO	WATTS PER PHASE A	WATTS PER PHASE B	CKT BRKR	LOAD SERVICE
ROADWAY LIGHTING	20A	250		1		2	978		20A	LTS- RESTROOMS
ROADWAY LIGHTING	20A		250	3		4		---	20A	SPARE
ROADWAY LIGHTING	20A	250		5		6	---		20A	SPARE
ROADWAY LIGHTING	20A		250	7		8		750	20A	HAND DRYER WOMENS
ROADWAY LIGHTING	20A	250		9		10	750		20A	HAND DRYER WOMENS
ROADWAY LIGHTING	20A		250	11		12		750	20A	HAND DRYER MENS
ATTIC LIGHTS	20A	162		13		14	750		20A	HAND DRYER MENS
EWC	20A		888	15		16		720	20A	UTILITY ROOM REC.
ROADWAY LIGHTING CONTROL	20A	100		17		18	720		20A	REC- GENERAL
LTS- COMMON AREA	20A		1404	19		20		180	20A	REC- EXTERIOR
LTS- EXTERIOR	20A	844		21		22	1000		20A	DOOR OPENER DOUBLE DOOR
LTS- EXTERIOR	20A		844	23		24		1000		.
EWH	30A	2250		25		26	2000		30A	DOOR OPENER SINGLE BACK DOOR
.			2250	27		28		2000		.
NOTES	SUB-TOTALS 'B'	4106	6136		150A BUS		6198	5400		SUB-TOTALS 'A'
EXISTING CIRCUIT/BREAKER TO REMAIN					150A LUGS		4106	6136		SUB-TOTALS 'B'
NEW/ REVISED CIRCIUT/BREAKER					150A FEED		10304	11536		GRAND TOTAL
					VERIFY SIZE		86A	96A		AMPS/PHASE

TOTAL CONNECTED LOAD

NEC ALLOWABLE DEMAND FACTORS

1. DEMAND FACTORS PER NEC 220
2. LARGEST OF: NEC TABLE 220.12 OR CONNECTED LOAD
3. NEC TABLE 220.56
4. NEC 220.51
5. NEC 220.43A, 200 VA/LINEAR FT
6. NON-COINCIDENT LOADS, LARGEST OF THE TWO LOADS IS COUNTED

DIVERSIFIED LOAD SUMMARY

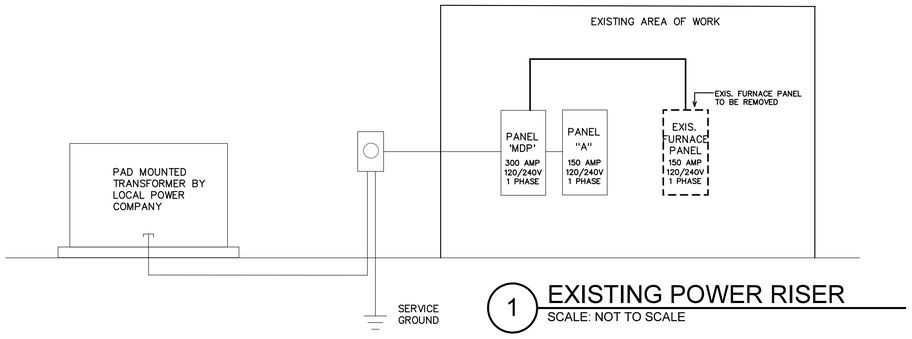
LOAD TYPE		DEMAND FACTOR①	A	B	TOTAL DIVERSIFIED LOAD
GENERAL LIGHTING	②	125%	3418	3748	7166
TRACK LIGHTING		125%	---	---	---
GENERAL USE	≤10KVA/BOOK	100%	720	900	1620
RECEPTACLES	>10KVA/BOOK	125%	---	---	---
MOTORS AND EQUIPMENT	LARGEST	125%	938	938	1876
	ALL OTHERS	100%	750	750	1500
WATER HEATERS		125%	2813	2813	5626
KITCHEN EQUIPMENT	③	100%	---	---	---
FIX. ELEC. SPACE HEAT.	④	100%	---	---	---
SHOW WINDOW LIGHTS	⑤	125%	---	---	---
SIGN		125%	---	---	---
MISC		100%	3100	3888	6988
PHASE (TOTAL VA)			11739	13037	24776
		TOTAL AMPS	98A	109A	VOLT AMPS / VOLTS = 103A TOTAL AMPS

EQUIPMENT WIRING SCHEDULE

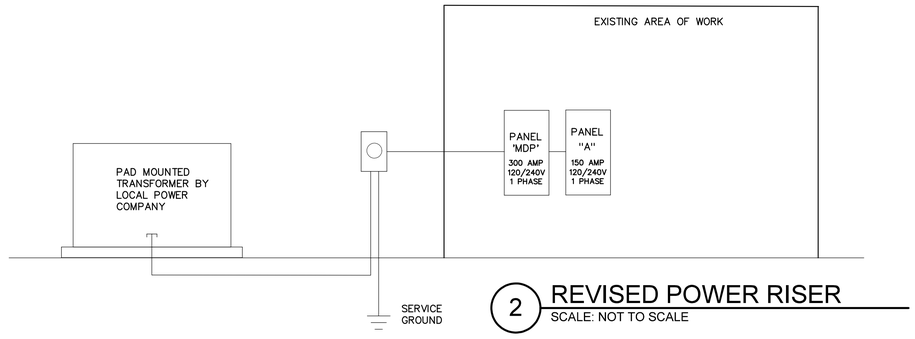
Currituck County Rest Area E6

EQUIPMENT	MCA	MOCP	VOLTS	PH	WIRE SIZE
AHU-1	59A	60A	240V	1	2-#6, 1-#10 GND IN 3/4" CONDUIT
HP-1	33A	50A	240V	1	2-#8, 1-#10 GND IN 3/4" CONDUIT
ERV-1	25.9A	35A	120V	1	2-#8, 1-#10 GND IN 3/4" CONDUIT
EWH	(4.5KW)	30A	240V	1	2-#10, 1-#10 GND IN 3/4" CONDUIT

NOTE:
THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT ELECTRICAL REQUIREMENTS PRIOR TO ROUGH-IN AND RELEASING GEAR. ADJUST BREAKER, WIRE SIZES, ETC. AS REQUIRED.



1 EXISTING POWER RISER
SCALE: NOT TO SCALE



2 REVISED POWER RISER
SCALE: NOT TO SCALE

WEEKS SUMMER ARCHITECTS

W. S. ARCHITECTS, PA
3305-109 Durham Drive
Raleigh, North Carolina 27603
919.779.9797
www.wsarchitectspa.com

ENGINEER
BURKE DESIGN GROUP, PA
CONSULTING ENGINEERS
3305-109 Durham Drive
Raleigh, North Carolina 27603
919.771.1916 fax: 919.779.0826
email: ben@bdg-nc.com
Corp. License # C-2652

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10/28/2026

SCO#: 26-31654-01A

PROJECT TITLE
CURRITUCK CTY REST AREA
5330 US 158
POPULAR BRANCH, NORTH CAROLINA

PROJECT NO.
2204a

DRAWING TITLE
ELECTRICAL PANELS/ RISER

E6

PLOT DATE 10/27/2026

This original sheet is 24" x 36"; other dimensions indicate it has been altered.

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