

CARTERET COUNTY REST AREA

3409 ARENDELL ST MOREHEAD CITY, NORTH CAROLINA

WEEKS
TURNER
ARCHITECTURE

WEEKS TURNER ARCHITECTURE, PA
3305-109 Durham Drive
Raleigh, North Carolina 27603
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DocuSigned by:
Ginger S. Anderson
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8/11/2017

NC DEPT. OF INSURANCE 2012 APPENDIX B BUILDING CODE SUMMARY

NC

Name Of Project: **CARTERET COUNTY REST AREA**
Address: 3409 ARENDELL ST, MOREHEAD CITY, NC
Proposed Use: RESTROOM BUILDING
Owner Or Authorized Agent: Weeks Turner Architecture Phone: (919) 779-9797 E-mail: ganderson@weeksturner.com
Owned By: Raleigh, NC City/County Private [X] State [] County [] City [] State [X]
Code Enforcement Jurisdiction: [] City [] County [X] State

LEAD DESIGN PROFESSIONAL: WEEKS TURNER ARCHITECTURE, PA

DESIGNER FIRM NAME LIC. # TELEPHONE E-MAIL
Architectural: Weeks Turner Architecture Ginger S. Anderson 11075 (919) 779-9797 ganderson@weeksturner.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: --- --- --- --- --- --- --- --- --- ---
Retaining Walls > 5' High: --- --- --- --- --- --- --- --- --- ---
Other: --- --- --- --- --- --- --- --- --- ---

2012 EDITION OF NC CODE FOR: [] New Construction [] Addition [] Upfit
EXISTING: [] Reconstruction [X] Alteration [] Repair
CONSTRUCTED ORIGINAL USE RESTROOMS
RENOVATED CURRENT USE RESTROOMS PROPOSED USE RESTROOMS

BUILDING DATA

CONSTRUCTION TYPE: [] I-A [] II-A [] III-A [] IV [] V-A [] I-B [] II-B [] III-B [] X-V-B
MIXED CONSTRUCTION: [X] NO [] YES TYPES: ---
SPRINKLERS: [X] NO [] PARTIAL [] YES [] NFPA 13 [] NFPA 13R [] NFPA 13D
STANDPIPES: [X] NO [] YES CLASS [] [] II [] III [] WET [] DRY
FIRE DISTRICT: [X] NO [] YES FLOOD HAZARD AREA: [X] NO [] YES
BUILDING HEIGHT: 22 ft. median roof NUMBER OF STORIES: 1
MEZZANINE: [X] NO [] YES

GROSS BUILDING AREA	EXISTING (SF)	PORCH (SF)	TOTAL	NEW
3RD FLOOR	---	---	---	---
2ND FLOOR	---	---	---	---
MEZZANINE	150	---	150	---
1ST FLOOR	3,608 htd.	1,519	5,177	0
BASEMENT	---	---	---	---
TOTAL	3,608 htd.	1,519	5,327	0 SF

ALLOWABLE AREA:

PRIMARY OCCUPANCY: [] ASSEMBLY [] A-1 [] A-2 [] A-3 [] A-4 [] A-5 [X] BUSINESS [] EDUCATIONAL [] FACTORY-INDUSTRIAL [] 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-5 CONDITION [] I-1 [] I-2 [] I-3 [] I-4 [] I-5

[] MERCANTILE [] RESIDENTIAL [] R-1 [] R-2 [] R-3 [] R-4 [] STORAGE [] S-1 Moderate [] S-2 Low [] HIGH-PILED [] UTILITY AND MISC [] PARKING GARAGE [] OPEN [] ENCLOSED [] REPAIR

SECONDARY OCCUPANCY: STORAGE (S-1) LESS THAN 10%

SPECIAL OCCUPANCY: [] 402 [] 403 [] 404 [] 405 [] 406 [] 407 [] 408 [] 409 [] 410 [] 411 [] 412 [] 413 [] 414 [] 415 [] 416 [] 417 [] 418 [] 419 [] 420 [] 421

SPECIAL PROVISIONS: [] 508.2 [] 508.3 [] 508.4 [] 508.5 [] 508.6 [] 508.7 [] 508.8

MIXED OCCUPANCY: [] NO [X] YES SEPARATION: --- HR. EXCEPTION: ---

[] Incidental Use Separation (508.2)
This separation is not exempt as a Non-Separated Use (see exceptions)

[X] Non-separated Mixed Occupancy (508.3.2)
The Required Type Of Construction For The Building Shall Be Determined By Applying The Height And Area Limitations For Each Of The Applicable Occupancies To The Entire Building. The Most Restrictive Type Of Construction, So Determined, Shall Apply To The Entire Building

[] Separated Mixed Occupancy (508.3.3) - See Below For Area Calc.
For Each Story, The Area Of The Occupancy Shall Be Such That The Sum Of The Ratios Of The Actual Floor Area Of Each Use Divided By The Allowable Floor Area For Each Use Shall Not Exceed 1.

ACTUAL AREA OF OCCUPANCY A + ACTUAL AREA OF OCCUPANCY B <= 1 ALLOWABLE AREA OF OCCUPANCY A ALLOWABLE AREA OF OCCUPANCY B

STORY NO.	DESCR'N AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 503s AREA	(C) AREA FOR OPEN SPACE INCREASE 1	(D) AREA FOR SPRINKLER INCREASE 2	(E) ALLOWABLE AREA OR UNLIMITED 3	(F) MAXIMUM BUILDING AREA 4
1	BUSINESS	3593 sf	9,000	6,750	---	15,750	31,500
1	STORAGE	---	9,000	6,750	---	15,750	15,750
---	---	---	---	---	---	---	---

1. Open Space Area Increases From Section 506.2 Are Computed Thus:
A. Perimeter Which Fronts A Public Way Or Open Space Having 20 Ft Min. Width = 198 (F).
B. Total Building Perimeter = 198 (F).
C. Ratio (F/P) = 1
D. W = Minimum Width Of Public Way = 30 (W).
E. Percent Of Frontage Increase If = 100 [F/P - 0.25] X W/30 = 75 (%).

2. The Sprinkler Increase Per Section 506.3.5 As Follows:
A. Multi-story Building Is = 200 %
B. Single Story Building Is = 300 %

3. Unlimited Area Applicable Under Conditions Of Sections Group B, F, M, S, A-4 (507); Group A Motion Picture (507.9); Malls (402.6); And H-2 Aircraft Paint Hangers (507.7)

4. Max. Building Area = Total No. Of Stories In The Building X E But Not Greater Than 3 X E. (506.4)

5. The Maximum Area Of Parking Garages Must Comply With 406.3.5. The Maximum Area Of Air Traffic Control Towers Must Comply With 412.1.2.

ALLOWABLE HEIGHT

TYPE OF CONSTRUCTION: TYPE VB

ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
BUILDING HEIGHT IN FEET	40 (FT)	--- (H +20')	22 (FT)
BUILDING HEIGHT IN STORIES	1 (STORIES)	--- (STORIES + 1)	1 (STORIES)

NC DEPT. OF INSURANCE 2012 APPENDIX B BUILDING CODE SUMMARY

CONTINUED

BUILDING ELEMENT	FIRE SEPN DIST. (FT)	RATING REQ'D	RATING PROV'D AND (W/----" REDUCTION)	DETAIL # AND SHEET #	DES. # FOR RATED ASSY	DES. # FOR RATED PENETN	DES. # FOR RATED JOINTS
STRUCTURAL FRAME, INCLUDING COLUMNS GIRDERS, TRUSSES BEARING WALLS	---	0	---	---	---	---	---
EXTERIOR NORTH	MORE THAN 30'	0	---	---	---	---	---
EAST	MORE THAN 30'	0	---	---	---	---	---
WEST	MORE THAN 30'	0	---	---	---	---	---
SOUTH	MORE THAN 30'	0	---	---	---	---	---
INTERIOR NONBEARING WALLS AND PARTITIONS	---	---	---	---	---	---	---
EXTERIOR NORTH	---	---	---	---	---	---	---
EAST	---	---	---	---	---	---	---
WEST	---	---	---	---	---	---	---
SOUTH	---	---	---	---	---	---	---
INTERIOR WALL & PARTITIONS	---	---	---	---	---	---	---
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	---	---	---	---	---	---	---
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	---	0	---	---	---	---	---
SHAFTS ENCLOSURES-EXIT SHAFTS ENCLOSURES-OTHER	---	---	---	---	---	---	---
CORRIDOR SEPARATION OCCUPANCY SEPARATION PARTY/FIRE WALL SEPARATION SMOKE BARRIER SEPARATION	---	---	---	---	---	---	---
TENANT SEPARATION INCIDENTAL USE SEPARATION	---	---	---	---	---	---	---
*INDICATE SECTION NO. PERMITTING REDUCTION							

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

Life Safety Plan Sheet #: A0.2

[] Fire and/or smoke rated wall locations (Chapter 7)
[] Assumed and real property line locations
[] Exterior wall opening area with respect to distance to assumed property lines (705.8)
[] Existing structures within 30 feet of the proposed building
[] Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.1)
[X] Occupant loads for each area
[] Exit access travel distances (1016)
[] Common path of travel distances (1014.3 & 1028.8)
[] Dead end lengths (1018.4)
[X] Clear exit widths for each exit door
[X] Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.1)
[X] Actual occupant load for each exit door
[] A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancyseparation
[] Location of doors with panic hardware (1008.1.10)
[] Location of doors with delayed egress locks and the amount of delay (1008.1.9.7)
[] Location of doors with electromagnetic egress locks (1008.1.9.8)
[] Location of doors equipped with hold-open devices
[] Location of emergency escape windows (1029)
[] The square footage of each fire area (902)
[] The square footage of each smoke compartment (407.4)
[] Note any code exceptions or table notes that may have been utilized regarding the items above

DESIGN LOADS: EXISTING TO REMAIN - NO CHANGES TO STRUCTURE

BUILDING OCCUPANCY CATEGORY II

ROOF DEAD LOAD --- PSF
ROOF LIVE LOAD --- PSF
CEILING DEAD LOAD --- PSF
CEILING LIVE LOAD (Maint. Access - NO storage) --- PSF
FLOOR LIVE LOAD (Uniform) --- PSF
FLOOR LIVE LOAD (Concentrated) --- LBS

SNOW LOAD DATA:
GROUND SNOW LOAD --- PSF
SNOW EXPOSURE FACTOR ---q
SNOW LOAD IMPORTANCE FACTOR ---
THERMAL FACTOR ---
FLAT ROOF SNOW LOAD --- PSF
ROOF SLOPE FACTOR ---
PITCHED ROOF SNOW LOAD ---

WIND LOAD DATA:
DESIGN WIND SPEED (ASCE 7-05) --- MPH
WIND IMPORTANCE FACTOR ---q
WIND EXPOSURE ---PSF
INTERNAL PRESSURE COEFFICIENTS --- FT
NBL BUILDING:
WIND BASE SHEAR (x-x DIRECTION) --- KIPS
WIND BASE SHEAR (y-y DIRECTION) --- KIPS
CORNER ZONE BOUNDARY DIST. "a" FOR C/C WIND --- FT

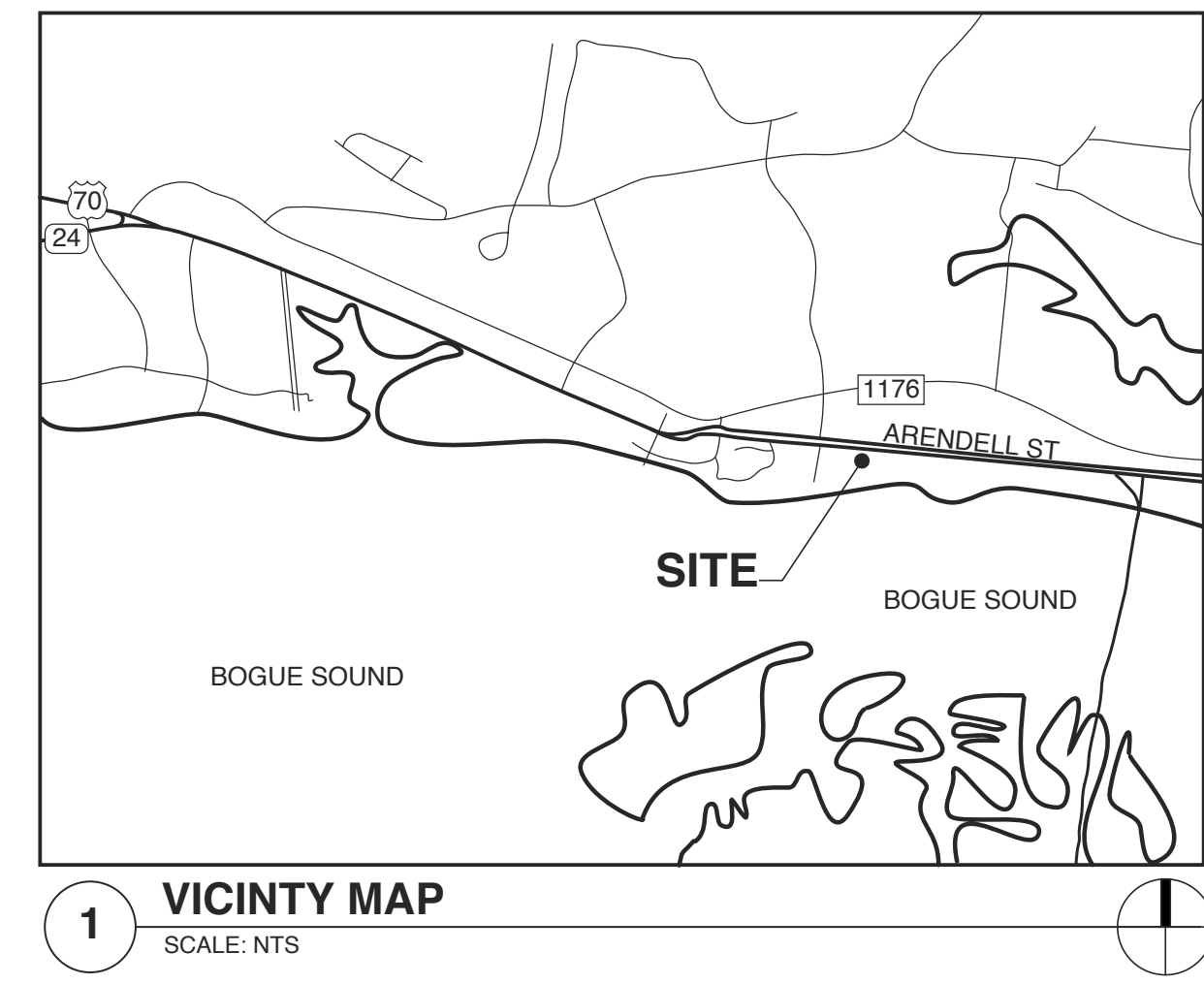
PLUMBING FIXTURE REQUIREMENT

USE: BUSINESS 5,327 SF/100 = 54 PEOPLE

	WATERCLOSETS	LAVATORIES	FAMILY	DRINKING FOUNTAINS			
	MALE	FEMALE	URINALS MALE	FEMALE	RESTROOM	REGULAR	ACCESSIBLE
REQUIRED	2	2	---	1	1	---	1
PROVIDED	4	6	2	4	4	1	1

ACCESSIBLE PARKING EXISTING PARKING TO REMAIN

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



1 VICINITY MAP
SCALE: NTS

GENERAL NOTES

I: FOR THIS PROJECT:

A) THE ARCHITECTS SCOPE OF WORK DOES INCLUDE CONSTRUCTION OBSERVATION.

THE CONTRACTOR IS IN CHARGE OF THE WORK AND COMPLIANCE WITH THESE CONSTRUCTION DOCUMENTS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE ARCHITECT WILL BEAR NO RESPONSIBILITY FOR FAILURE OF THE CONTRACTOR TO FULLY COMPLY WITH ALL CONSTRUCTION DOCUMENTS.

USE OF THESE CONTRACT DOCUMENTS WILL CONSTITUTE AGREEMENT BY THE CONTRACTOR TO THESE CONDITIONS.

B) "THE GENERAL CONDITIONS OF THE CONTRACT FOR THE CONSTRUCTION OF THE BUILDINGS" OF THE AMERICAN INSTITUTE OF ARCHITECTS DOCUMENT A-201, LATEST EDITION, ARE HEREBY MADE PART OF THE CONTRACT DOCUMENTS. IN THE EVENT OF A CONFLICT, THESE GENERAL NOTES AND CONTRACT SUPERSEDE "AIA DOCUMENT A-201".

II: ALL WORK UNDER THIS CONTRACT SHALL:

A) CONFORM TO STATE, LOCAL AND NATIONAL CODES AND ORDINANCES AS ARE APPLICABLE TO THE WORK INCLUDING BUT NOT LIMITED TO THE NORTH CAROLINA STATE BUILDING CODE, THE AMERICANS WITH DISABILITIES ACT (ADA), NATIONAL ELECTRIC CODES, ASTM SPECIFICATIONS, AND OSHA SAFETY REGULATIONS.

B) COMPLY WITH ALL LAWS, ORDINANCES, CODES, RULES AND REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION (EPA), THE COST OF ALL REQUIRED INSPECTIONS AND PERMITS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

III: UNLESS OTHERWISE DIRECTED BY THE ARCHITECT, THE CONTRACTOR SHALL:

A) SUPPLY AND PAY FOR ALL LABOR, TRANSPORTATION, MATERIALS, TOOLS, APPARATUS, LIGHTS, POWER, HEAT, SANITARY FACILITIES, WATER, SCAFFOLDING, AND INCIDENTALS NECESSARY FOR THE COMPLETION OF HIS WORK.

B) INSTALL, MAINTAIN AND REMOVE ALL EQUIPMENT, OTHER UTENSILS OR THINGS USED FOR THE CONSTRUCTION PRIOR TO TURNING OVER THE PROJECT. IF SUCH ITEMS ARE LEFT AFTER COMPLETION OF THE PROJECT, THEY SHALL BECOME PROPERTY OF THE OWNER. THE OWNER MAY PROMPTLY DISPOSE OF SUCH ITEMS, AND WILL NOT BE SUBJECT TO CLAIMS OF THE CONTRACTOR RESULTING FROM SUCH DISPOSITION.

C) CONSTRUCT IN THE BEST AND PROFESSIONAL MANNER, A COMPLETE JOB AND EVERYTHING INCIDENTAL THERETO, AS SHOWN OR REASONABLY IMPLIED FROM THE PLANS, ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

D) VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO PROCEEDING WITH THE WORK AND NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES DISCOVERED OR LACK OF REQUIRED INFORMATION. IF THE CONTRACTOR OBSERVES THE CONTRACT DOCUMENTS TO BE CONTRARY TO GOVERNING LAWS, ORDINANCES, CODES, RULES AND REGULATIONS OR OTHERWISE QUESTIONABLE CONDITIONS, HE SHALL PROMPTLY NOTIFY THE ARCHITECT IN WRITING FOR INSTRUCTIONS PRIOR TO PROCEEDING WITH THE WORK. DO NOT SCALE DRAWINGS.

E) KEEP THE BUILDING AND SURROUNDING AREA REASONABLY FREE FROM RUBBISH AT ALL TIMES. AT A MINIMUM, DEBRIS SHALL BE REMOVED FROM THE SITE ON A WEEKLY BASIS OR AS DIRECTED BY PROJECT EXPEDITOR.

F) LOCATE ALL EXISTING UTILITIES. THE CONTRACTOR MAY NOT INTERFERE WITH ADJACENT UTILITIES UNLESS PRIOR NOTICE AND PERMISSION IS RECEIVED FROM THOSE WHO MAY AS A RESULT OF THIS INTERFERENCE BE AFFECTED.

G) PRIOR TO ANY WORK, CALL "NC ONE CALL CENTER" @ 800-632-4949 AND OTHER LOCATING SERVICES AS TO CONFIRM LOCATION OF UTILITIES.

H) PRIOR TO FINAL INSPECTION AND ACCEPTANCE OF THE BUILDING, EACH CONTRACTOR SHALL CLEAN HIS PORTION OF THE WORK, INCLUDING GLASS, HARDWARE FIXTURES, MASONRY, TILE AND MARBLE (USING NO ACID), CLEAN AND WAX ALL FLOORS AS SPECIFIED, AND COMPLETELY PREPARE THE BUILDING FOR USE BY THE OWNER.

I) FILE WITH THE OWNER, CURRENT INSURANCE CERTIFICATIONS IN THE AMOUNTS REQUESTED BY THE OWNER FOR BUILDER'S RISK, WORKMEN'S COMPENSATION, COMPREHENSIVE GENERAL LIABILITY, BODILY INJURY AND PROPERTY DAMAGE. THIS INSURANCE SHALL COVER THE OWNER AND THE ARCHITECT OF ANY AND ALL COSTS, CLAIMS, SUITS AND JUDGEMENTS FOR PROPERTY DAMAGE AND PERSONAL INJURY (INCLUDING GENERAL) ARISING OUT OF THE CONTRACTOR'S ACTIONS.

J) PROVIDE ALL NECESSARY SAFETY MEASURES FOR THE PROTECTION OF ALL PERSONS OF THE WORK, INCLUDING THE REQUIREMENTS OF THE A.G.C. ACCIDENT PREVENTION MANUAL IN CONSTRUCTION AS AMENDED, AND SHALL FULLY COMPLY WITH ALL STATE LAWS OR REGULATIONS AND NORTH CAROLINA STATE BUILDING CODE REQUIREMENTS TO PREVENT ACCIDENT OR INJURY TO PERSONS ON OR ABOUT THE LOCATION OF THE WORK.

K) CLEARLY MARK OR POST SIGNS, WARNING OF HAZARDS EXISTING, AND BARRICADE EXCAVATIONS, ELEVATOR SHAFTS, STAIRWELLS AND SIMILAR HAZARDS. PROTECT AGAINST DAMAGE OR INJURY RESULTING FROM FALLING MATERIALS AND MAINTAIN ALL PROTECTIVE DEVICES AND SIGNS THROUGHOUT THE PROGRESS OF THE WORK

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A1.2	REV. FLOOR PLAN
A1.3	RCP & ROOF PLAN
A1.4	FINISH PLAN
A1.5	INT. ELEVATIONS & DETAILS
A1.6	DETAILS
A1.7	TILE FLOOR, KEY PLAN, NOTES
A1.8	TILE WALL ELEVATIONS
A1.9	TILE LEGENDS
A1.10	TILE DETAIL ELEVATIONS
A1.11	ARTWORK TILE ALT. 1
A1.12	ARTWORK TILE ALT. 2 & 3
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A3	SECTIONS
A4	SCHEDULES & DETAILS
A5	STORAGE SHED

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E2	EXISTING LIGHTING PLAN
E3	REVISED LIGHTING PLAN
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E5	REVISED POWER PLAN
E6	PANEL SCHEDULES/SERVICE RISER
E7	LIGHTING CONTROL DETAILS

ENERGY SUMMARY

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

THERMAL ENVELOPE

Method of Compliance:
[] Prescriptive --- % Glazed Wall Area
[] Performance [] Energy Cost Budget

Roof/Ceiling Assembly (each assembly)
Description of assembly REPLACE WHERE EXPOSED DURING CONSTRUCTION WITH R-38 batt insulation at attic floor
U-Value of total assembly
R-Value of insulation
Skylights in each assembly
U-Value of skylight
Total square footage of skylights in each assembly

Exterior Walls (each assembly)
Description of assembly existing R-19 batt insulation, replace in kind as needed
U-Value of total assembly
R-Value of insulation
Openings (windows or doors with glazing)
U-Value of assembly 0.32
Shading coefficient 0.33
Projection factor 0.40
Low-e required, if applicable
Door R-Values

Walls adjacent to unconditioned space (each assembly)
Description of assembly na
U-Value of total assembly
R-Value of insulation
Openings (windows or doors with glazing)
U-Value of assembly
Low-e required, if applicable
Door R-Values

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

Floors over unconditioned space (each assembly)
Description of assembly 2x10s, new R-30 batt insulation
U-Value of total assembly
R-Value of insulation

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

STATE ID#: 17-17533-01A
WBS ELEMENT: 51213.031

PROJECT TITLE
CARTERET COUNTY REST AREA
3409 ARENDELL STREET
MOREHEAD CITY, NORTH CAROLINA

PROJECT NO.
1604a

DRAWING TITLE
COVER SHEET

SHEET 1 OF 19

A0.1

PLOT DATE 8/11/17
ISSUE DATE 8/10/17

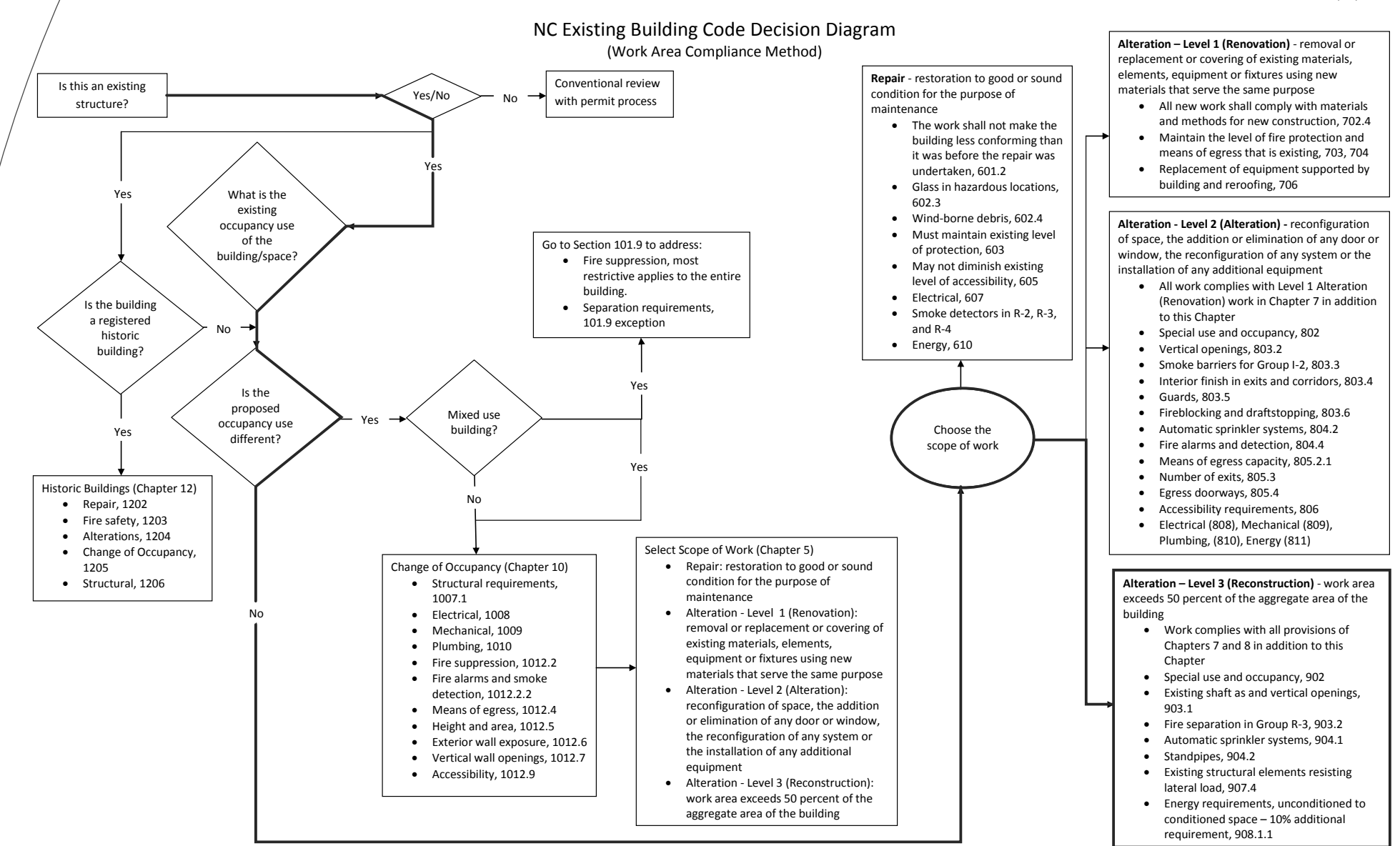
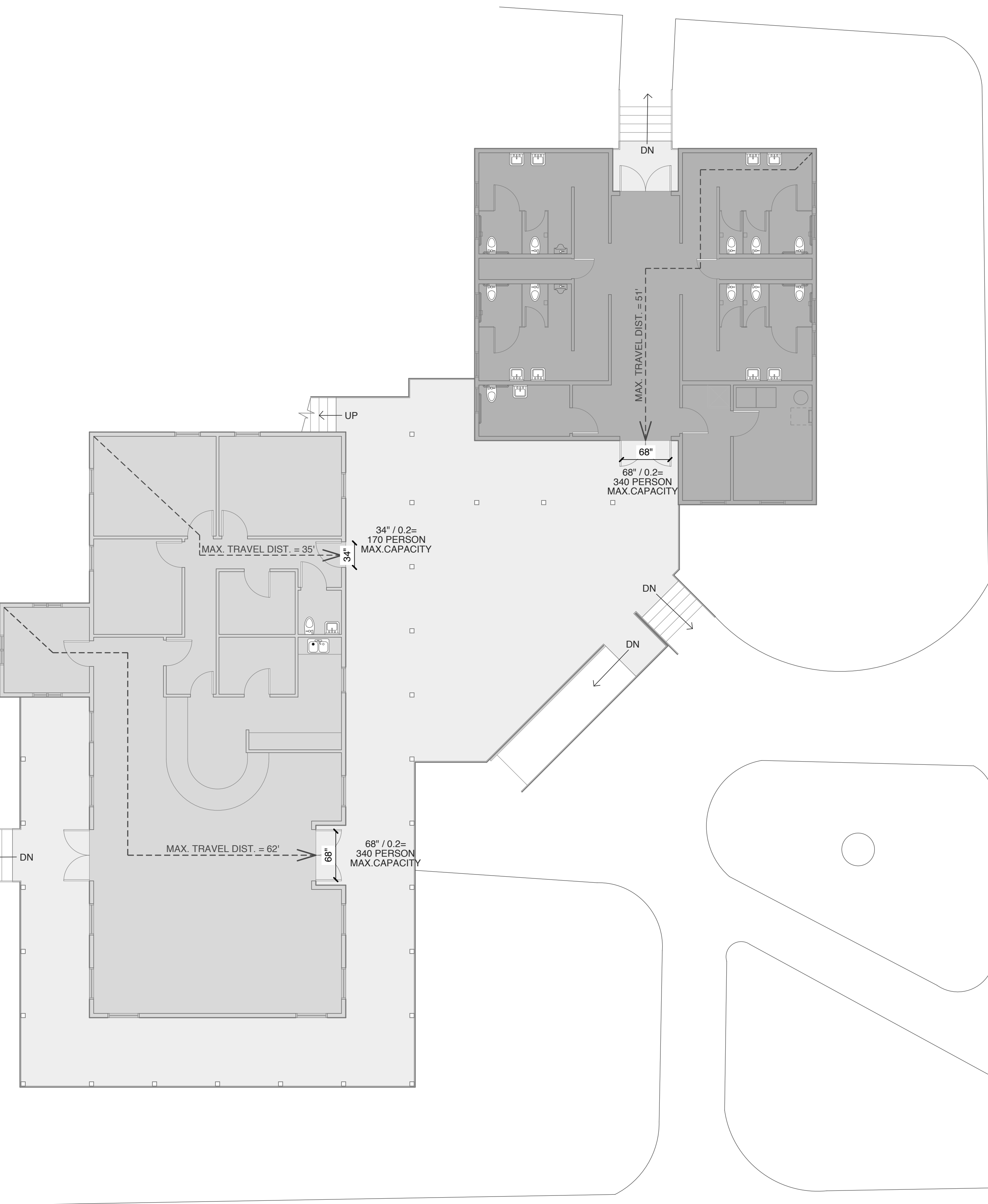
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AREAS	
1,449 SF	EXISTING REST AREA
2,144 SF	EXISTING VISITOR CENTER
2,339 SF	EXISTING PORCH AREA
5,932 SF	TOTAL AREA

EGRESS REQ. & CODE REF.	
REST AREA USE: BUSINESS 1,449 SF/100 = 15 PEOPLE	
VISITOR CENTER USE: BUSINESS 2,144 SF/100 = 22 PEOPLE	
20 x 0.2' = 4.0' CLEAR EGRESS WIDTH PER 1005.1 OF NCSBC	
SINGLE EXIT PER TABLE 1015.1 (LESS THAN 49 PERSONS) & 1014.3 (LESS THAN 100 FT. EGRESS TRAVEL) 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	



3/11/15

STATE ID#: 17-17533-01A
WBS ELEMENT: 51213.031

PROJECT TITLE
**CARTER COUNTY
REST AREA**
3409 ARENDELL STREET
MOREHEAD CITY, NORTH CAROLINA

PROJECT NO.
1604a
DRAWING TITLE
LIFE SAFETY PLAN

SHEET 2 OF 19

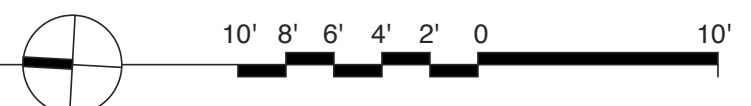
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PLOT DATE 8/11/17
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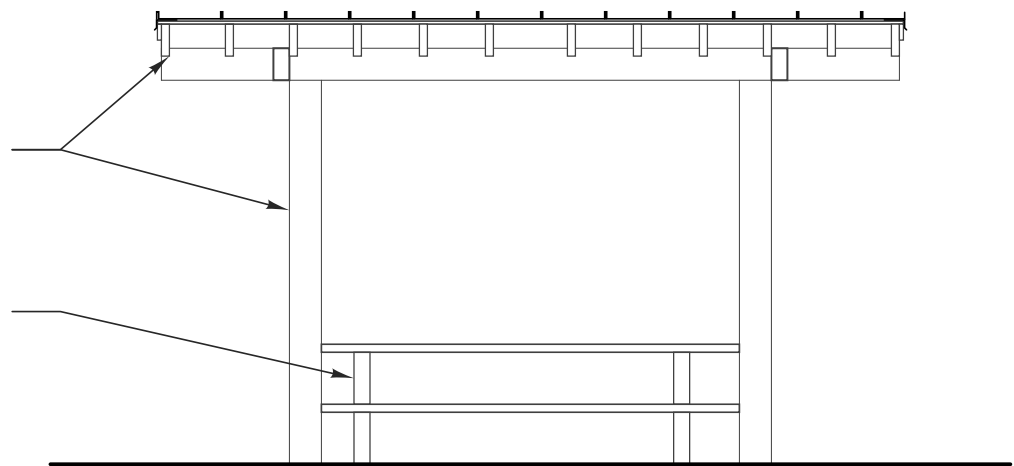
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1 LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"



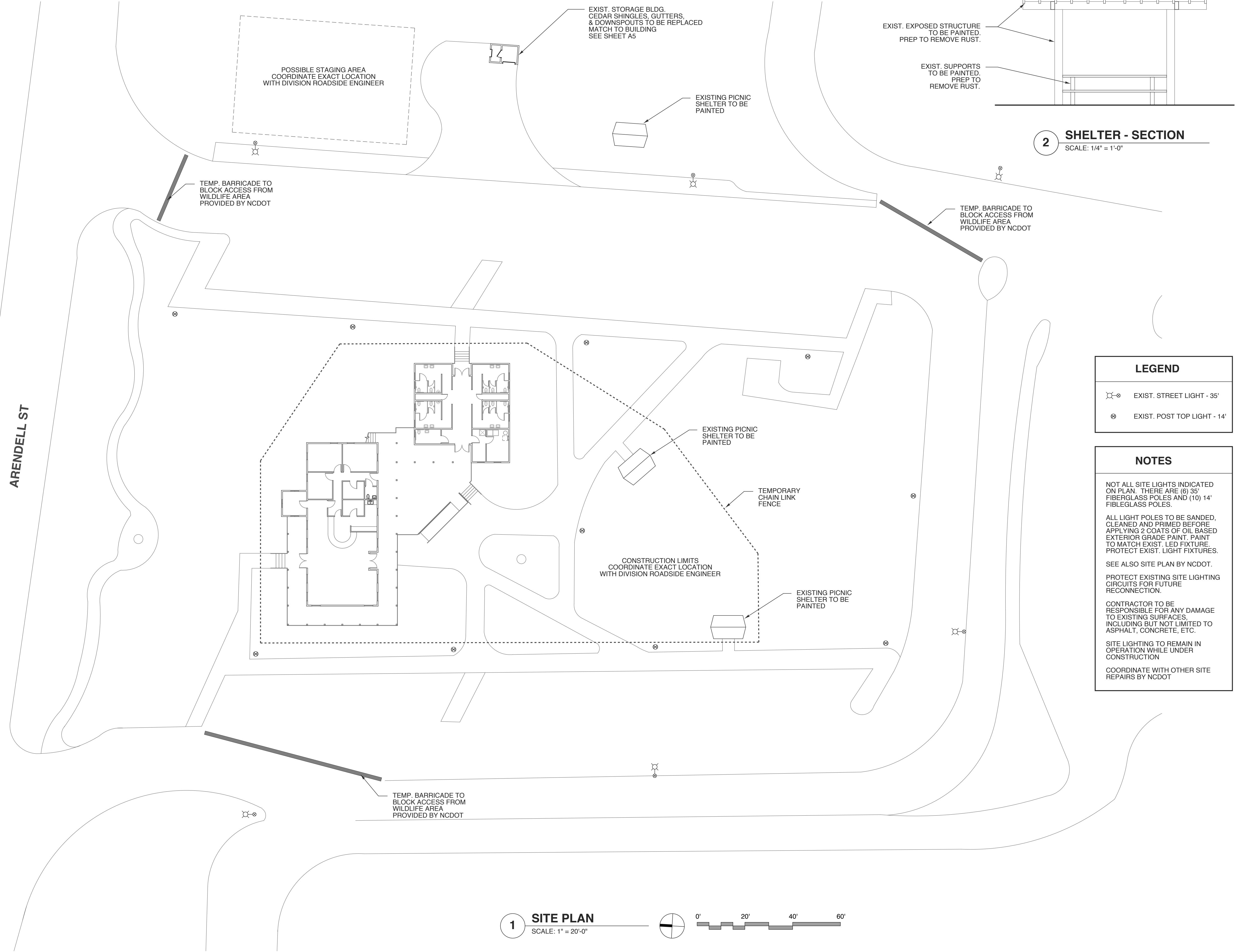


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2 SHELTER - SECTION
SCALE: 1/4" = 1'-0"

ARENDELL ST



1 SITE PLAN
SCALE: 1" = 20'-0"

LEGEND	
	EXIST. STREET LIGHT - 35'
	EXIST. POST TOP LIGHT - 14'

NOTES

NOT ALL SITE LIGHTS INDICATED ON PLAN. THERE ARE (6) 35' FIBERGLASS POLES AND (10) 14' FIBERGLASS POLES.

ALL LIGHT POLES TO BE SANDED, CLEANED AND PRIMED BEFORE APPLYING 2 COATS OF OIL BASED EXTERIOR GRADE PAINT. PAINT TO MATCH EXIST. LED FIXTURE. PROTECT EXIST. LIGHT FIXTURES.

SEE ALSO SITE PLAN BY NCDOT.

PROTECT EXISTING SITE LIGHTING CIRCUITS FOR FUTURE RECONNECTION.

CONTRACTOR TO BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING SURFACES, INCLUDING BUT NOT LIMITED TO ASPHALT, CONCRETE, ETC.

SITE LIGHTING TO REMAIN IN OPERATION WHILE UNDER CONSTRUCTION

COORDINATE WITH OTHER SITE REPAIRS BY NCDOT

STATE ID#: 17-17533-01A
WBS ELEMENT: 51213.031

PROJECT TITLE
**CARTERET COUNTY
REST AREA**
3409 ARENDELL STREET
MOREHEAD CITY, NORTH CAROLINA

PROJECT NO.
1604a
DRAWING TITLE
SITE PLAN

SHEET 3 OF 19

A0.3

PLOT DATE 8/11/17
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NOTES

- REPLACE EXISTING WINDOWS WITH HIGH WIND RESISTANT PICTURE WINDOWS
- REPLACE CEDAR SHAKE SIDING WITH FIBER CEMENT SHAKES
- REFLASH DORMERS AS NEEDED
- REPLACE GUTTERS AND DOWNSPOUTS. NEW GUTTERS TO BE SEAMLESS
- REPLACE ALL DECKING, RAILS, & PICKETS WITH COMPOSITE PRODUCT LAYOUT TO REMAIN THE SAME
- EXISTING EXTERIOR POST TO REMAIN
- NEW PORCH AND SOFFIT LIGHTS (T&G CEILING TO REMAIN)
- REPLACE EXTERIOR DOORS, INCLUDING HC PUSH BUTTON OPERATOR
- REMOVE ALL FIRE ALARM AND SPRINKLER COMPONENTS AND REPAIR FINISHED BEHIND
- NEW REST AREA HVAC WITH REVISED INTAKE & EXHAUST
- NEW LED LIGHTING
- NEW INTERIOR FINISHES
- INSULATED CHASE IN CRAWL FOR PIPING TO PREVENT FREEZING
- NEW PLUMBING FIXTURES
- ADDED WATER FOUNTAIN

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.

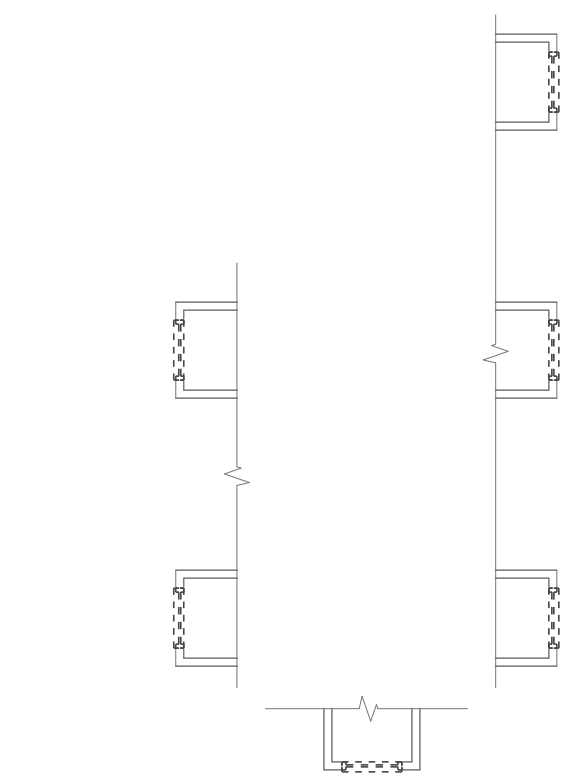
ITEMS RESULTING FROM THE DEMOLITION AND ITEMS WHICH ARE NOT TO BE RETURNED TO THE OWNER AS NOTED HEREIN, SHALL BE REMOVED FROM THE SITE, AS THE WORK PROGRESSES, AND DISPOSED OF IN A LEGAL MANNER.

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.

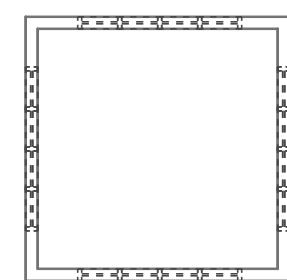
AREA OUTSIDE OF AREA OF WORK TO REMAIN CLEAR AND CLEAN OF DEBRIS, EQUIPMENT ETC. AT ALL TIMES..

WALL LEGEND

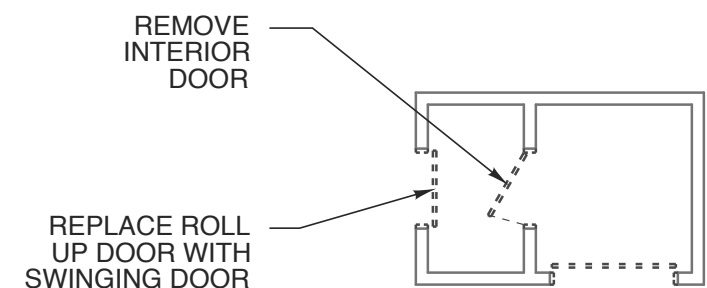
	EXIST. EXTERIOR WALL TO REMAIN
	EXIST. INTERIOR WALL TO REMAIN
	EXIST. 1 HR. RATED WALL TO REMAIN
	TO BE REMOVED



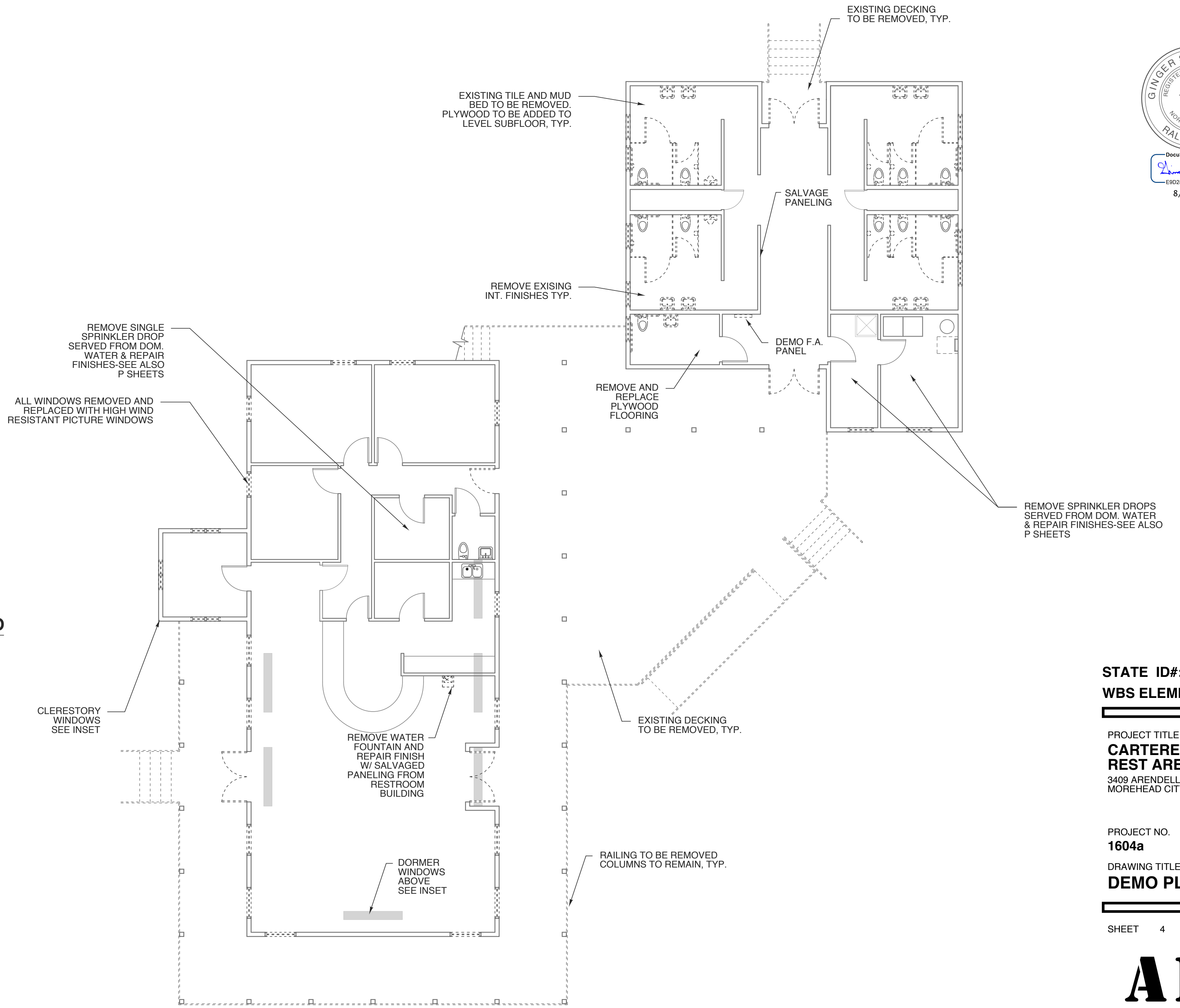
4 DORMER WINDOWS-DEMO
SCALE: 1/8" = 1'-0"



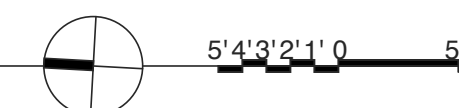
3 CLERESTORY WINDOWS-DEMO
SCALE: 1/8" = 1'-0"



2 STORAGE-DEMO
SCALE: 1/8" = 1'-0"



1 EXISTING FLOOR PLAN-DEMO
SCALE: 1/8" = 1'-0"



STATE ID#: 17-17533-01A
WBS ELEMENT: 51213.031

PROJECT TITLE
**CARTERET COUNTY
REST AREA**
3409 ARENDELL STREET
MOREHEAD CITY, NORTH CAROLINA

PROJECT NO.
1604a
DRAWING TITLE
DEMO PLAN

SHEET 4 OF 19

A1.1

PLOT DATE 8/11/17
ISSUE DATE 8/10/17

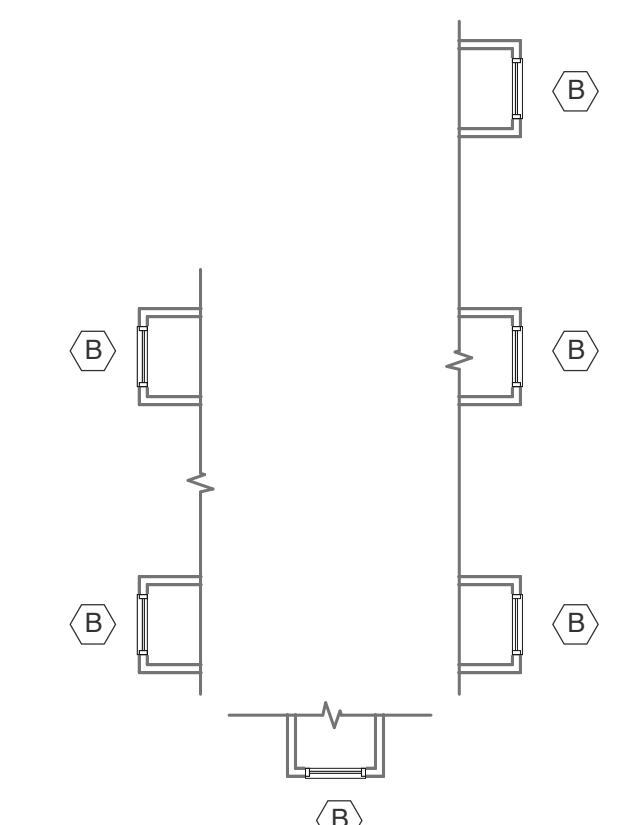
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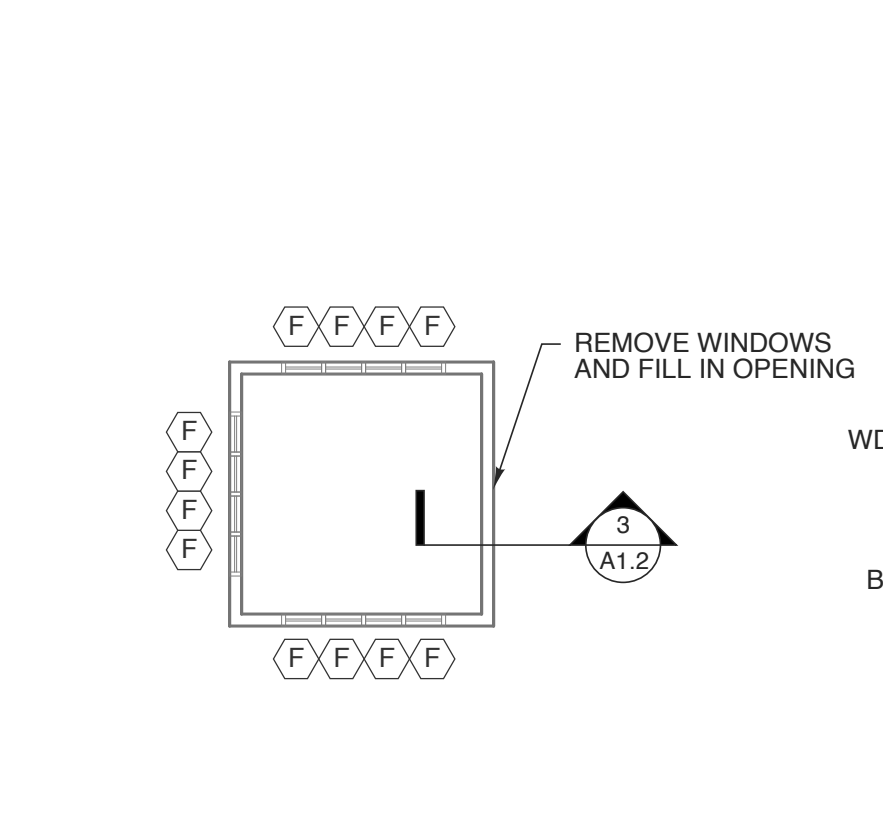
WALL LEGEND	
	EXIST. EXTERIOR WALL TO REMAIN
	EXIST. INTERIOR WALL TO REMAIN
	EXIST. 1 HR. RATED WALL TO REMAIN
	NEW INTERIOR WALL

- NOTES**
1. CONTRACTOR TO SUPPLY ALL BLOCKING NEEDED TO SUPPORT REQUIRED RESTROOM ITEMS UNLESS OTHERWISE NOTED OR STATED PER MANF.
 2. VERIFY ALL ROUGH OPENING DIMENSIONS WITH MANUFACTURERS REQUIREMENTS
 3. SEE SHEETS A1.4 FOR MORE REQ. CLEARANCES

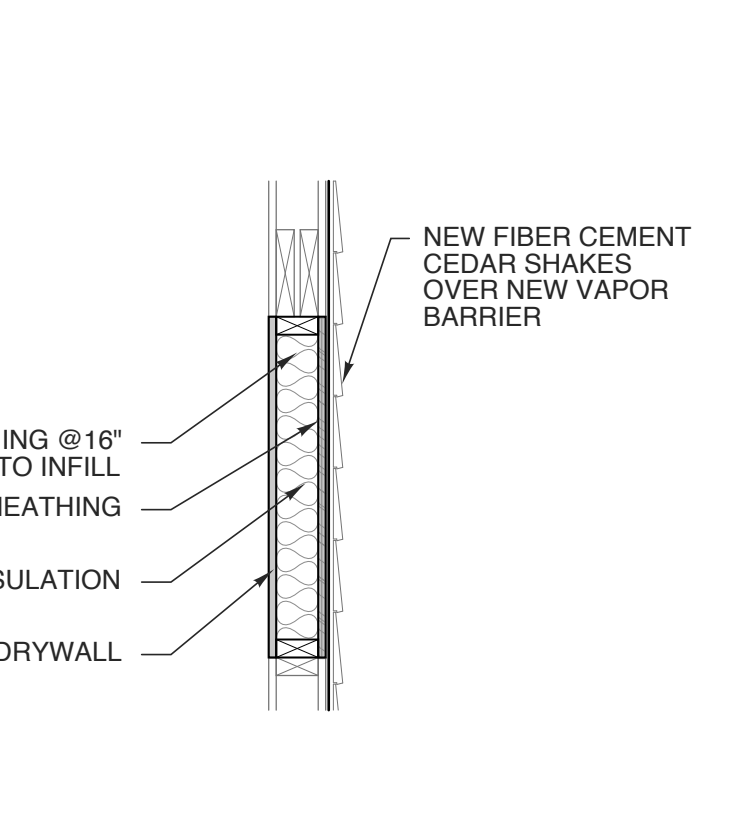
FE ABC FIRE EXTINGUISHER IN SEMI-RECESSED CABINET NOT LOCKABLE -GLASS DOOR WITH STAINLESS STEEL TRIM; HANDLE 48" AFF MAX VERIFY LOCATION WITH FIRE MARSHALL



5 DORMER WINDOWS
SCALE: 1/8" = 1'-0"



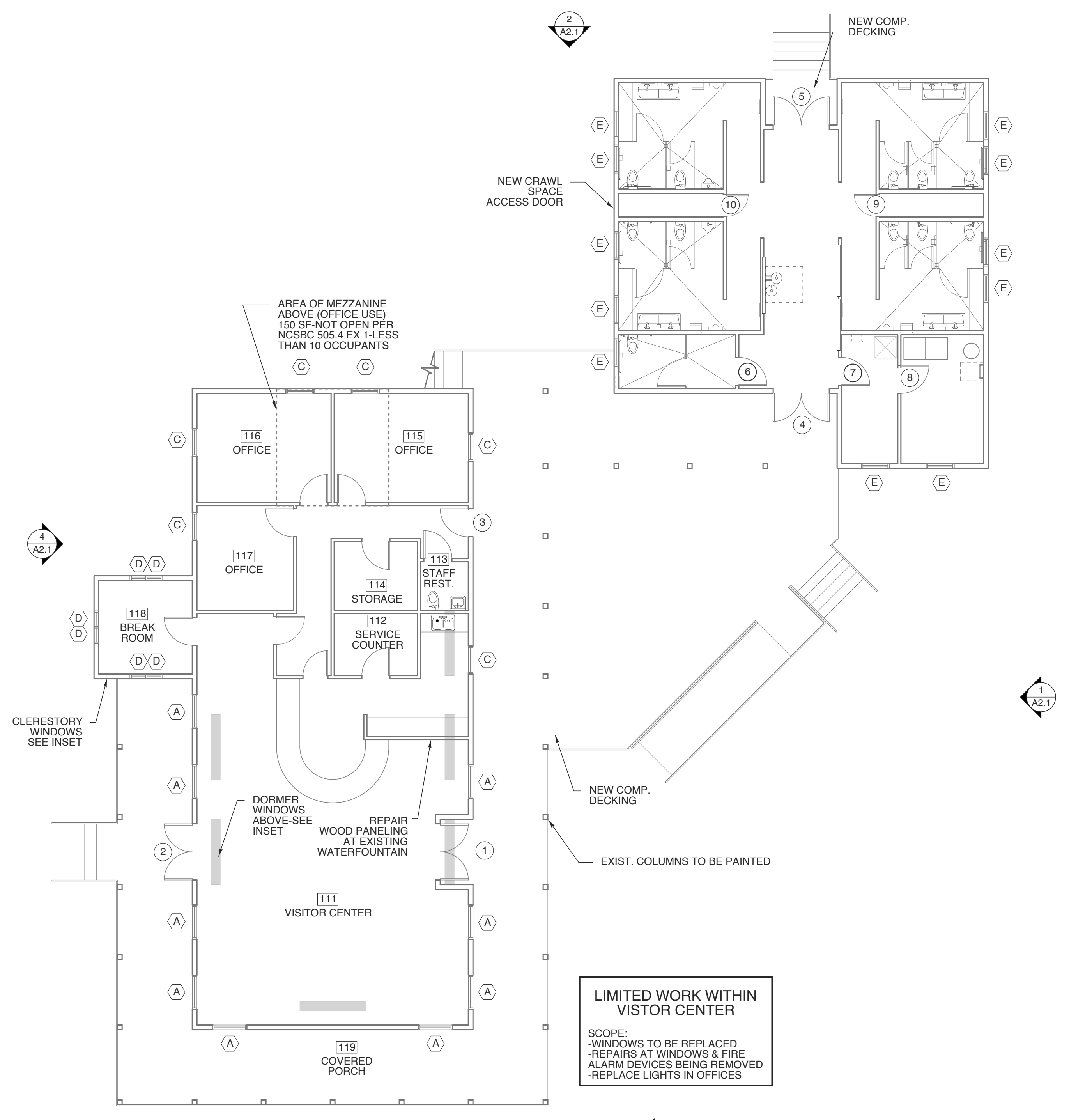
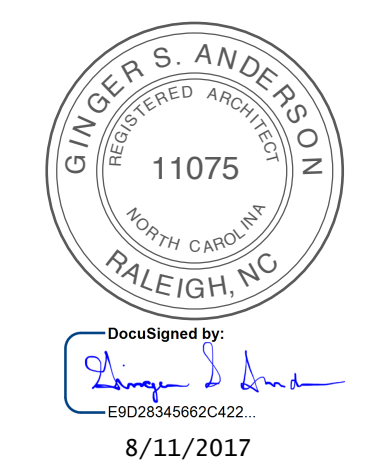
4 CLERESTORY WINDOWS
SCALE: 1/8" = 1'-0"



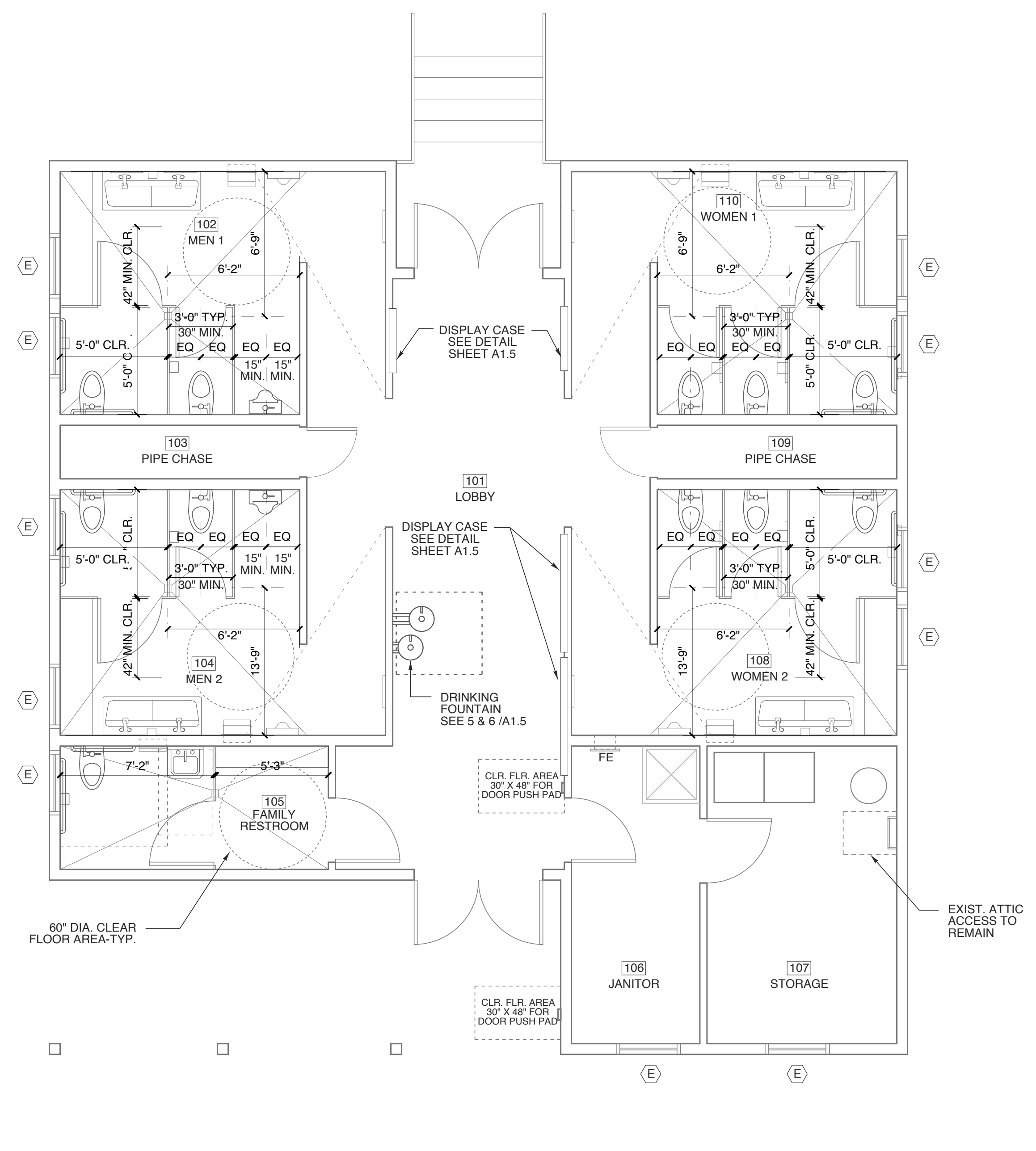
3 DETAIL
SCALE: 3/4" = 1'-0"

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Raleigh, North Carolina 27603
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1 REVISED FLOOR PLAN
SCALE: 1/8" = 1'-0"



2 ENLARGED REST AREA REVISED FLOOR PLAN
SCALE: 1/4" = 1'-0"

STATE ID#: 17-17533-01A
WBS ELEMENT: 51213.031

PROJECT TITLE
CARTERET COUNTY REST AREA
3409 ARENDELL STREET
MOREHEAD CITY, NORTH CAROLINA

PROJECT NO.
1604a
DRAWING TITLE
REV. FLOOR PLAN

SHEET 5 OF 19

A1.2

PLOT DATE 8/11/17
ISSUE DATE 8/10/17

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ROOF DRAINAGE CALCULATIONS
PER 2012 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

ROOF DRAINAGE LEGEND

- 3" x 4" VERTICAL LEADER
- 6" EAVE GUTTER @ 1:16 SLOPE

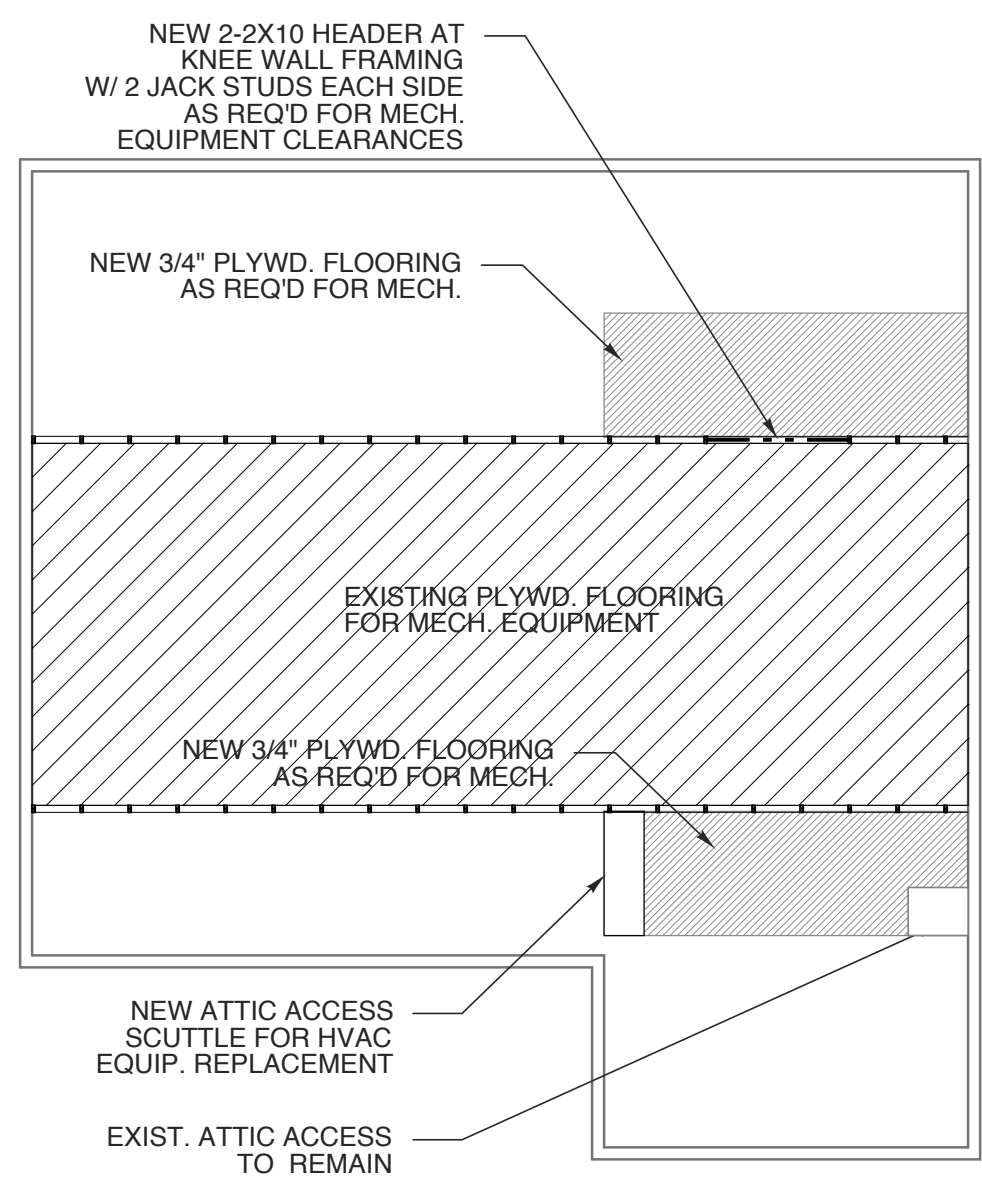
ALL ROOF PENETRATIONS TO BE PAINTED TO MATCH ROOF.

ATTIC VENTILATION

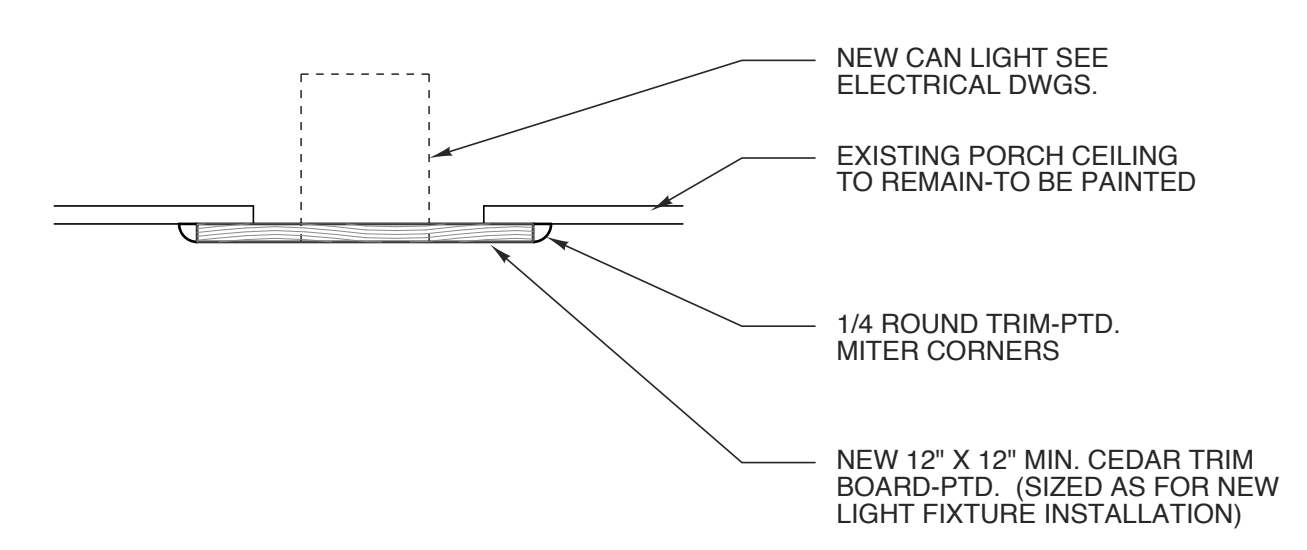
1449 SF EXISTING ATTIC AREA (REST AREA)
2144 SF EXISTING ATTIC AREA (VISITOR CENTER)
2239 SF EXISTING ATTIC AREA (PORCH)

1449/300 = 4.8 SF FREE VENT. AREA REQ'D
2144/300 = 7.1 SF FREE VENT. AREA REQ'D
2239/300 = 7.5 SF FREE VENT. AREA REQ'D

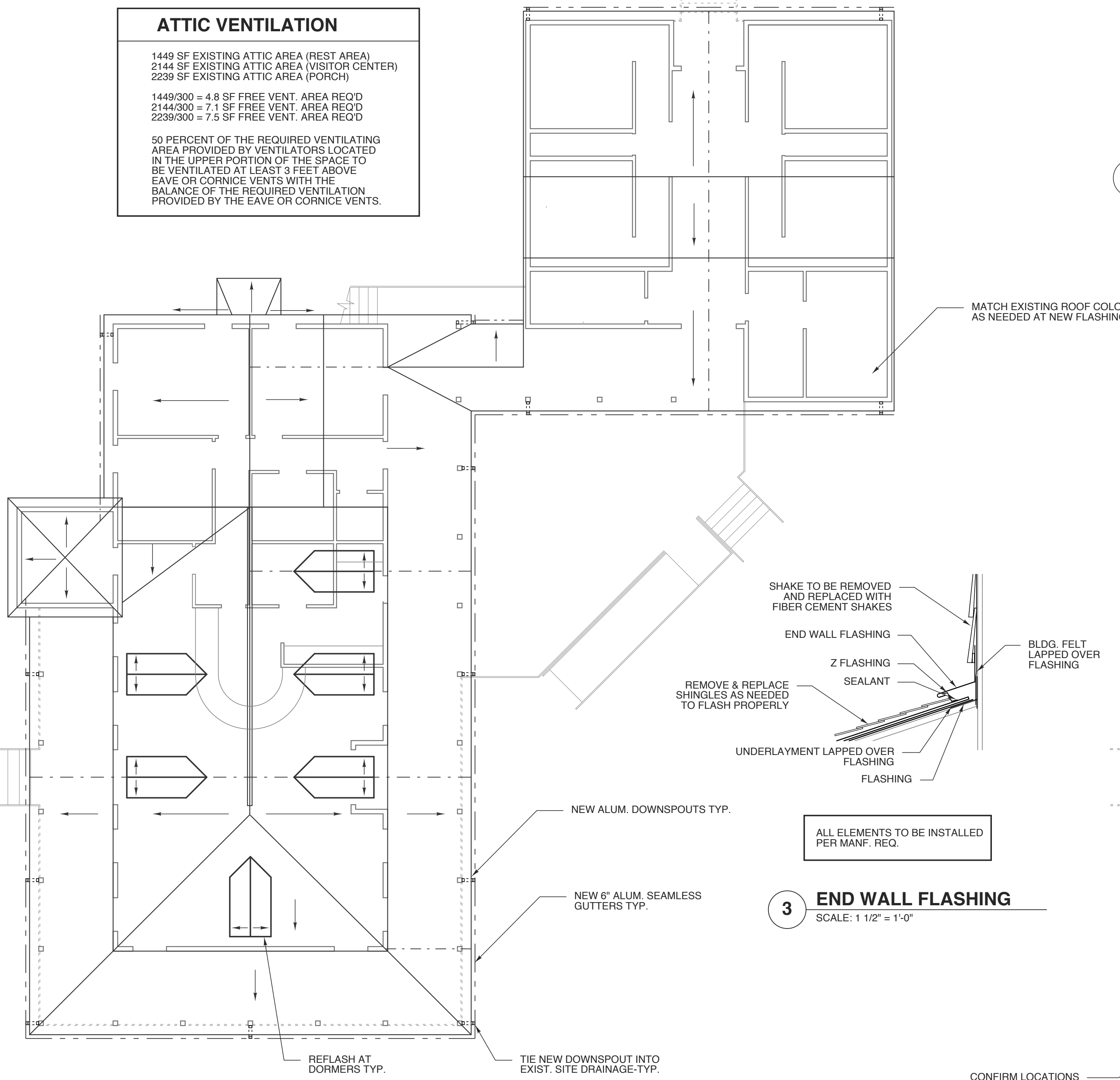
50 PERCENT OF THE REQUIRED VENTILATING AREA PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3 FEET ABOVE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION PROVIDED BY THE EAVE OR CORNICE VENTS.



5 ATTIC PLAN
SCALE: 1/8" = 1'-0"

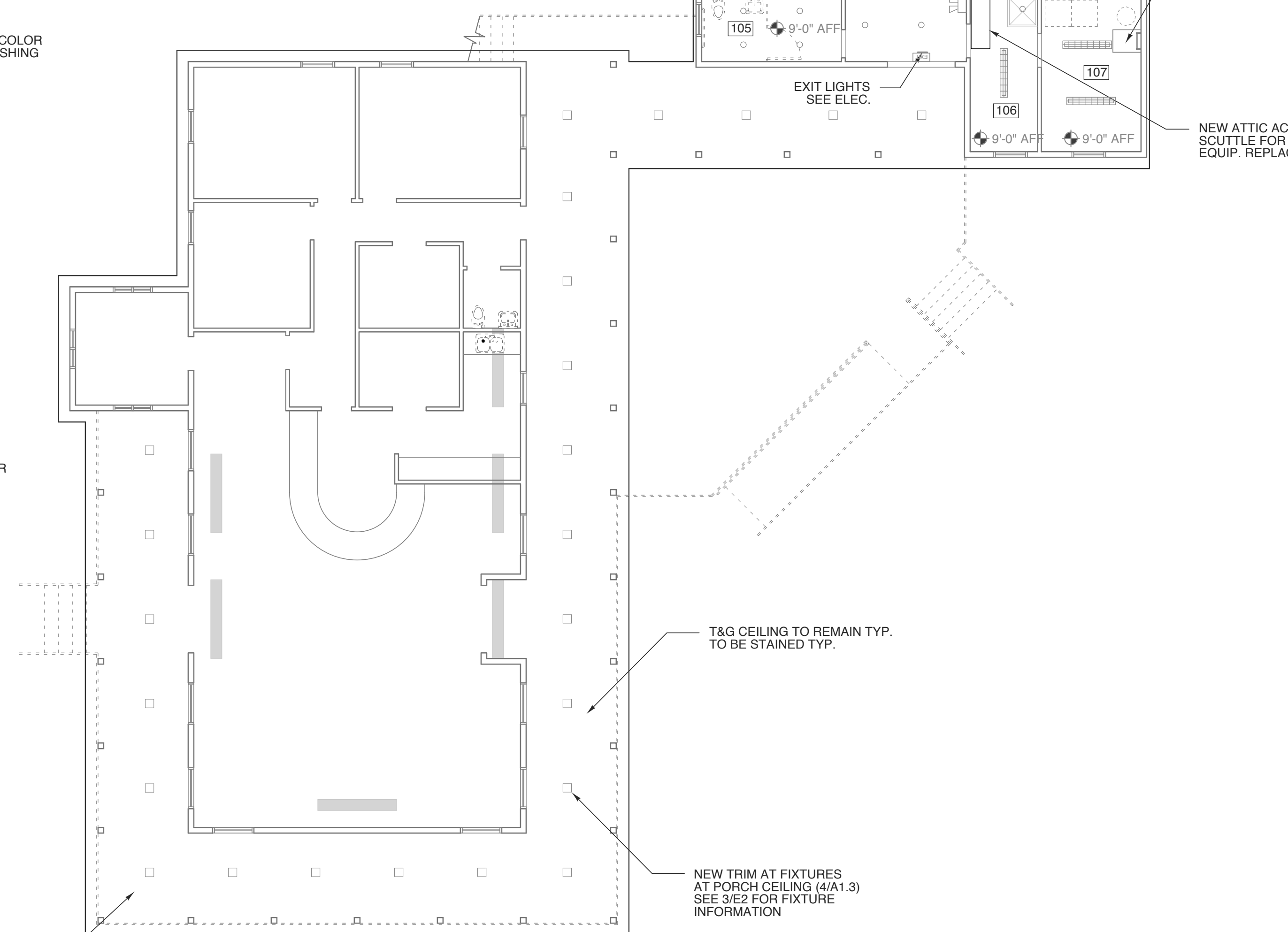
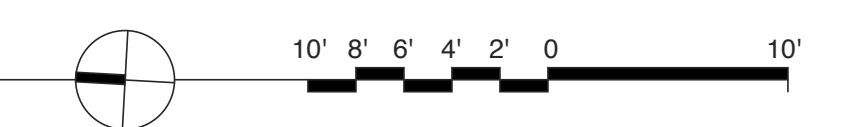


4 PORCH LIGHT TRIM
SCALE: 1 1/2" = 1'-0"

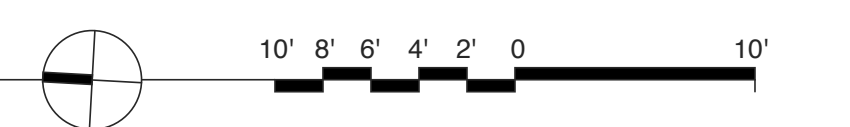


3 END WALL FLASHING
SCALE: 1 1/2" = 1'-0"

2 ROOF PLAN
SCALE: 1/8" = 1'-0"



1 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



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Ginger S. Anderson
8/11/2017

STATE ID#: 17-17533-01A
WBS ELEMENT: 51213.031

PROJECT TITLE
CARTERET COUNTY REST AREA
3409 ARENDELL STREET
MOREHEAD CITY, NORTH CAROLINA

PROJECT NO.
1604a
DRAWING TITLE
RCP & ROOF PLAN

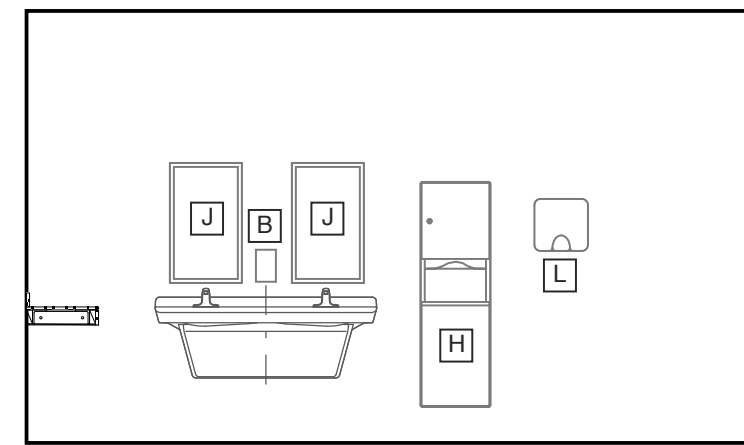
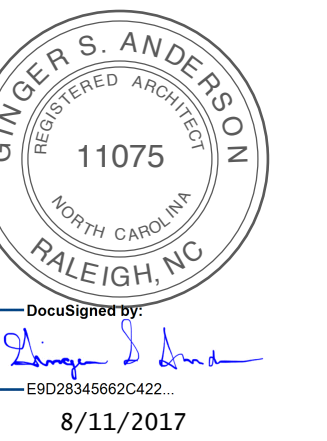
SHEET 6 OF 19

A1.3

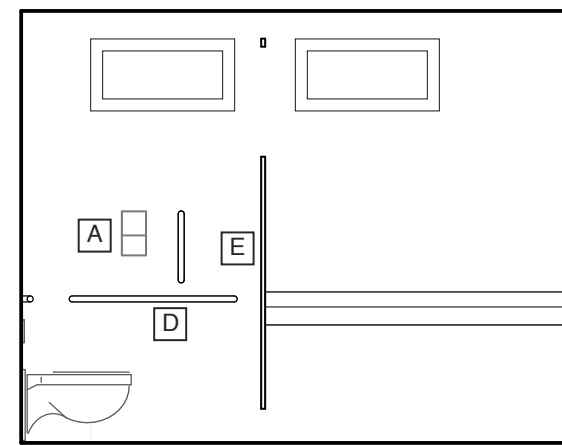
PLOT DATE 8/11/17
ISSUE DATE 8/10/17

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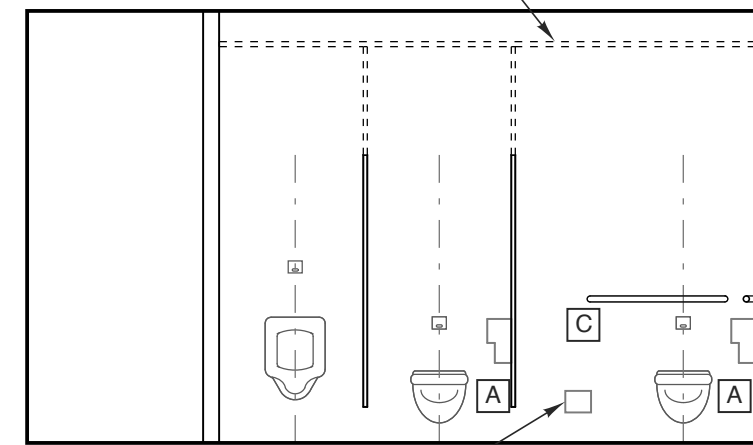
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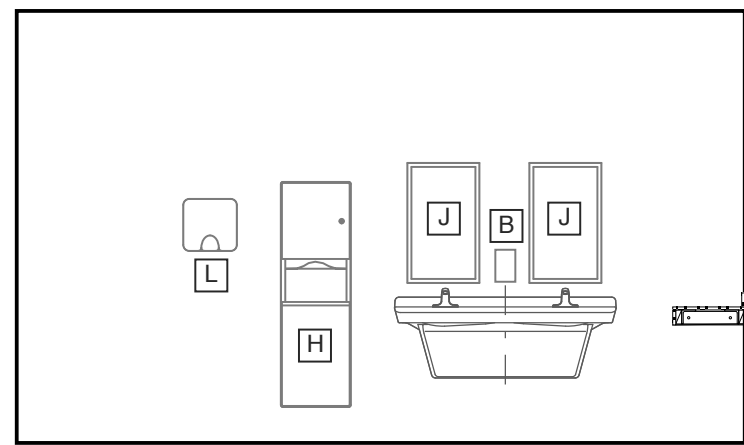
13 ELEV.-MEN 1
SCALE: 1/4" = 1'-0"



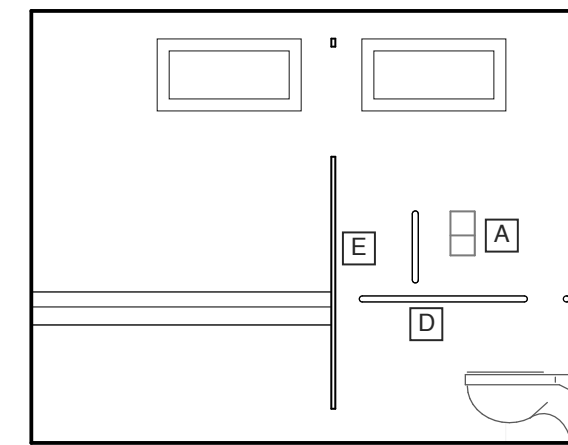
12 ELEV.-MEN 1
SCALE: 1/4" = 1'-0"



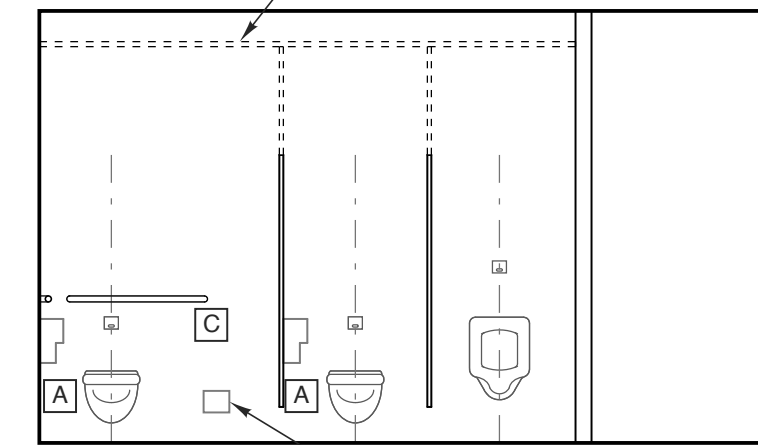
11 ELEV.-MEN 1
SCALE: 1/4" = 1'-0"



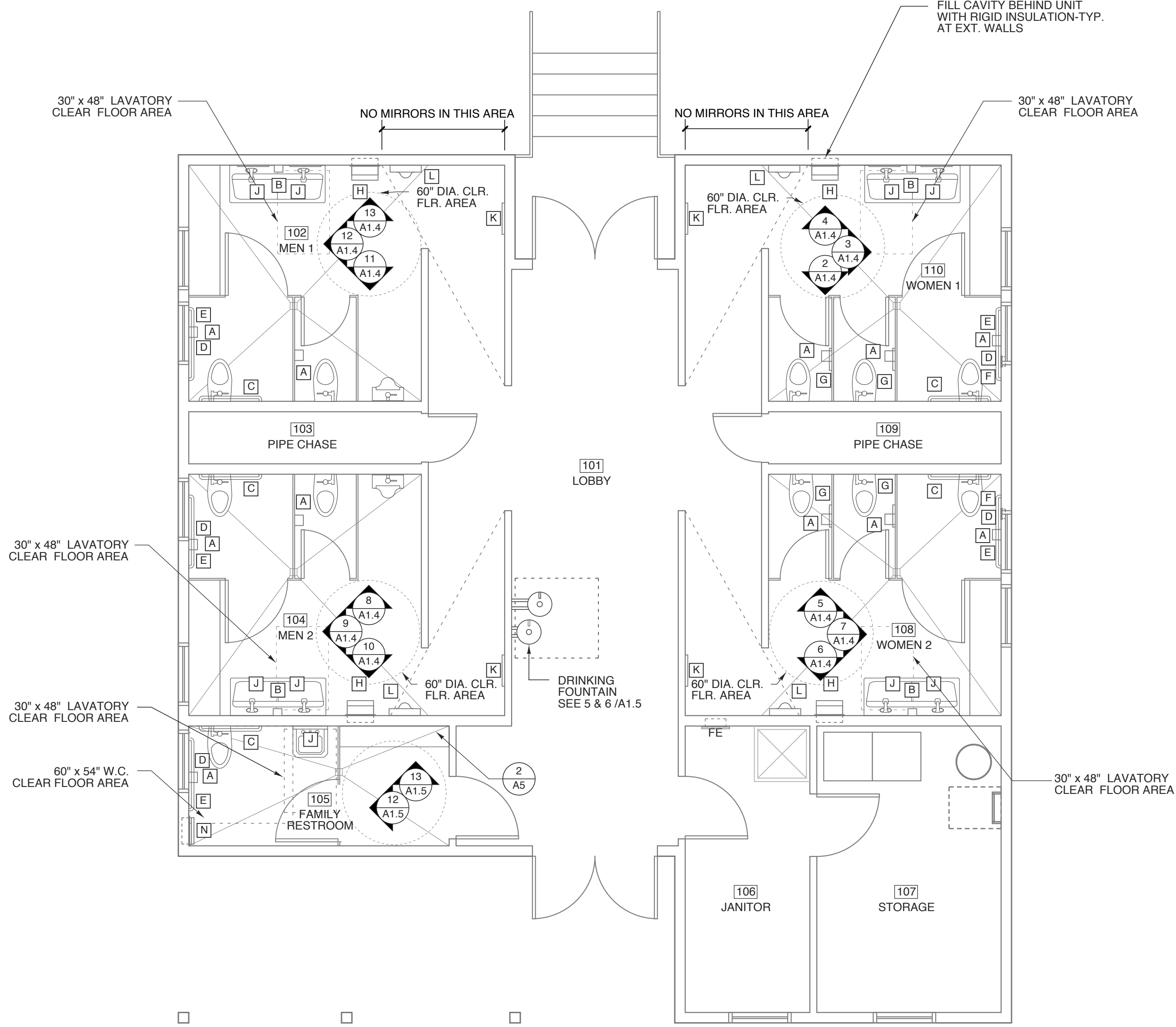
10 ELEV.-MEN 2
SCALE: 1/4" = 1'-0"



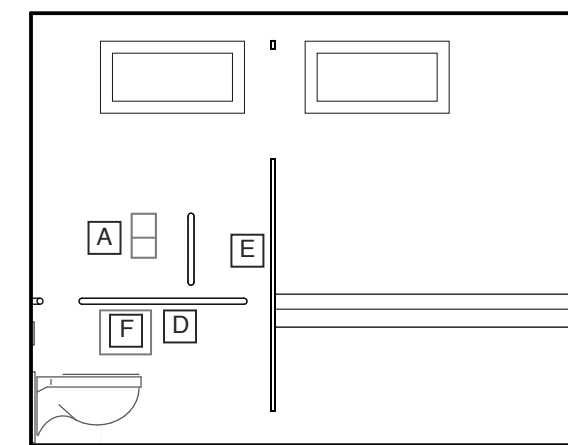
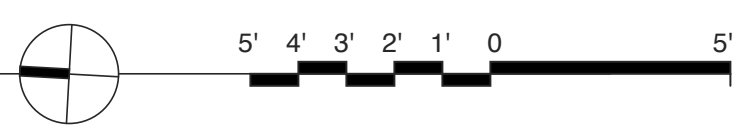
9 ELEV.-MEN 2
SCALE: 1/4" = 1'-0"



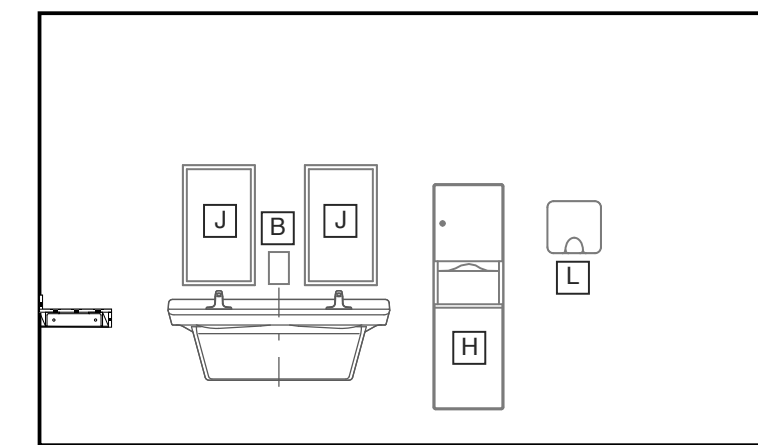
8 ELEV.-MEN 2
SCALE: 1/4" = 1'-0"



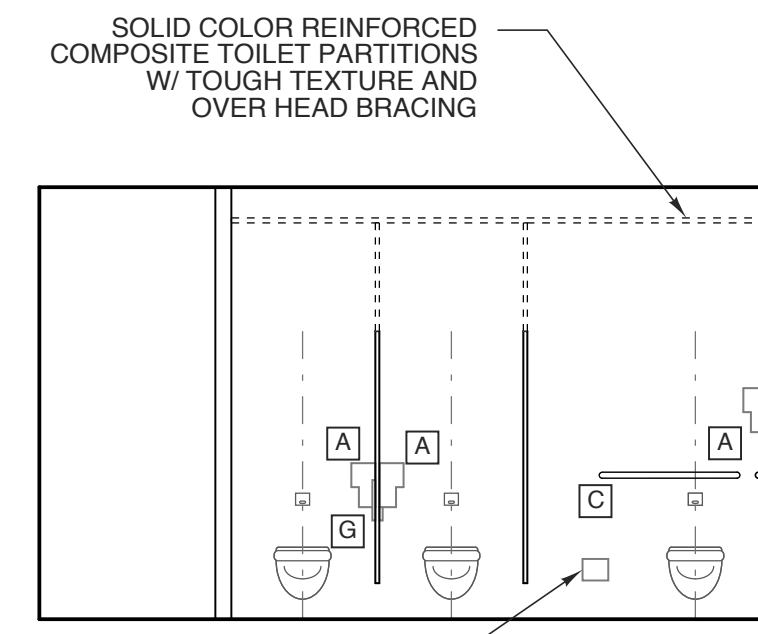
1 FINISH PLAN
SCALE: 1/4" = 1'-0"



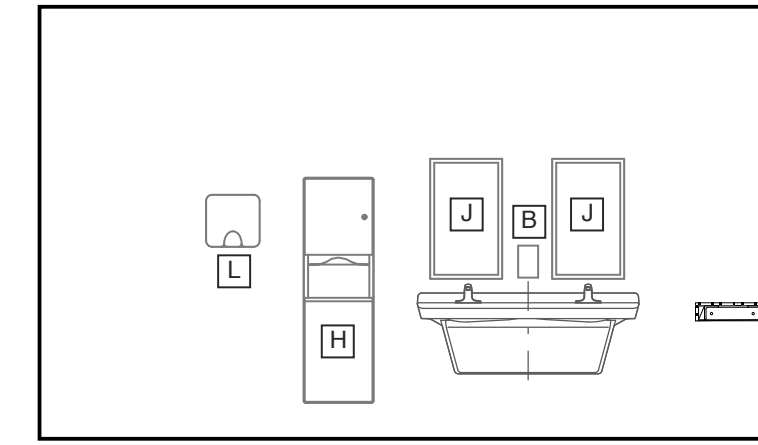
7 ELEV.-WOMEN 2
SCALE: 1/4" = 1'-0"



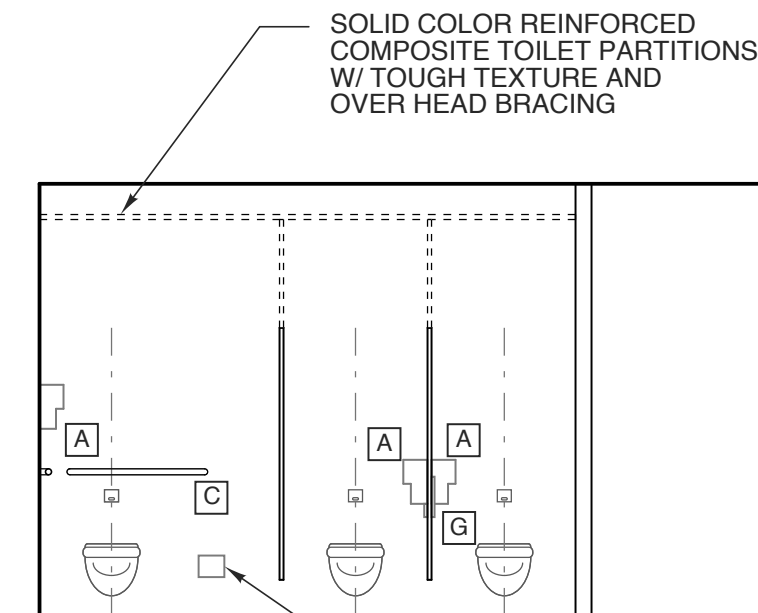
6 ELEV.-WOMEN 2
SCALE: 1/4" = 1'-0"



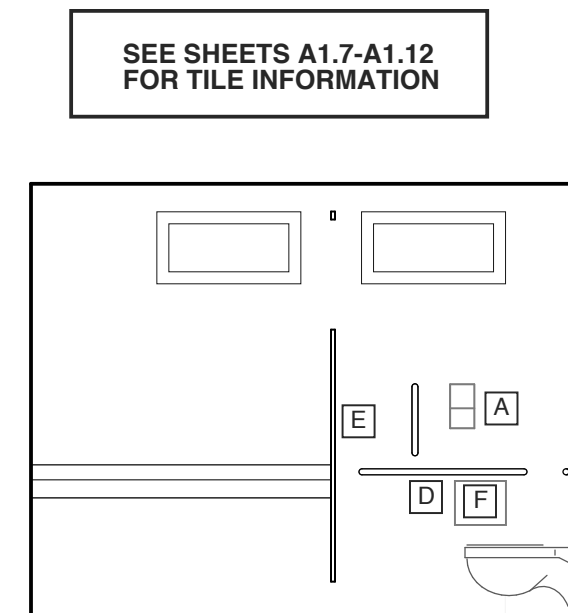
5 ELEV.-WOMEN 2
SCALE: 1/4" = 1'-0"



4 ELEV.-WOMEN 1
SCALE: 1/4" = 1'-0"



2 ELEV.-WOMEN 1
SCALE: 1/4" = 1'-0"



3 ELEV.-WOMEN 1
SCALE: 1/4" = 1'-0"

SEE SHEETS A1.7-A1.12 FOR TILE INFORMATION

STATE ID#: 17-17533-01A
WBS ELEMENT: 51213.031

PROJECT TITLE
**CARTERET COUNTY
REST AREA**
3409 ARENDELL STREET
MOREHEAD CITY, NORTH CAROLINA

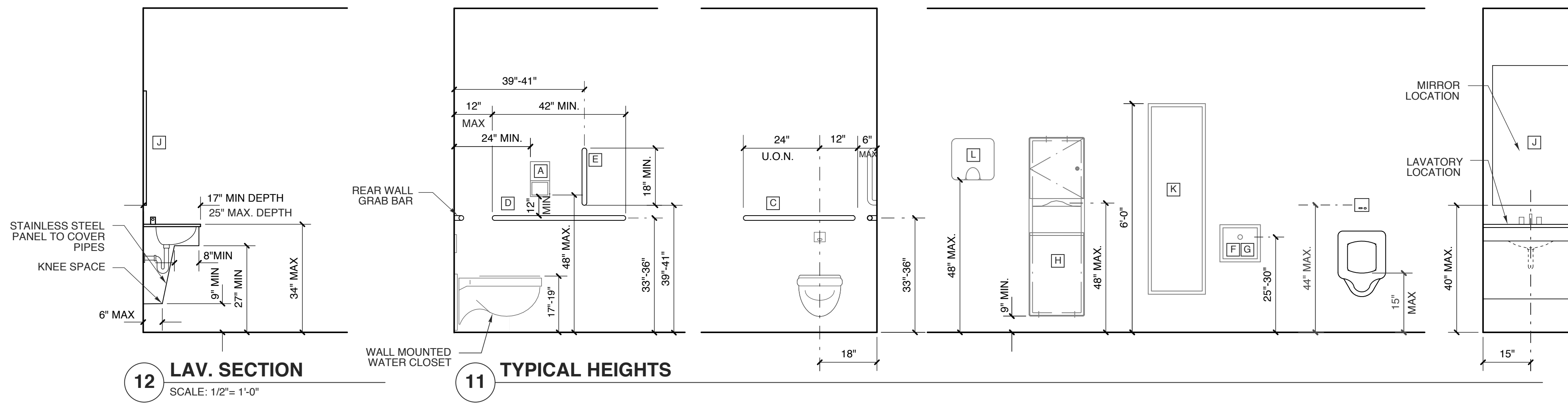
PROJECT NO.
1604a
DRAWING TITLE
FINISH PLAN

SHEET 7 OF 19

A1.4

PLOT DATE 8/11/17
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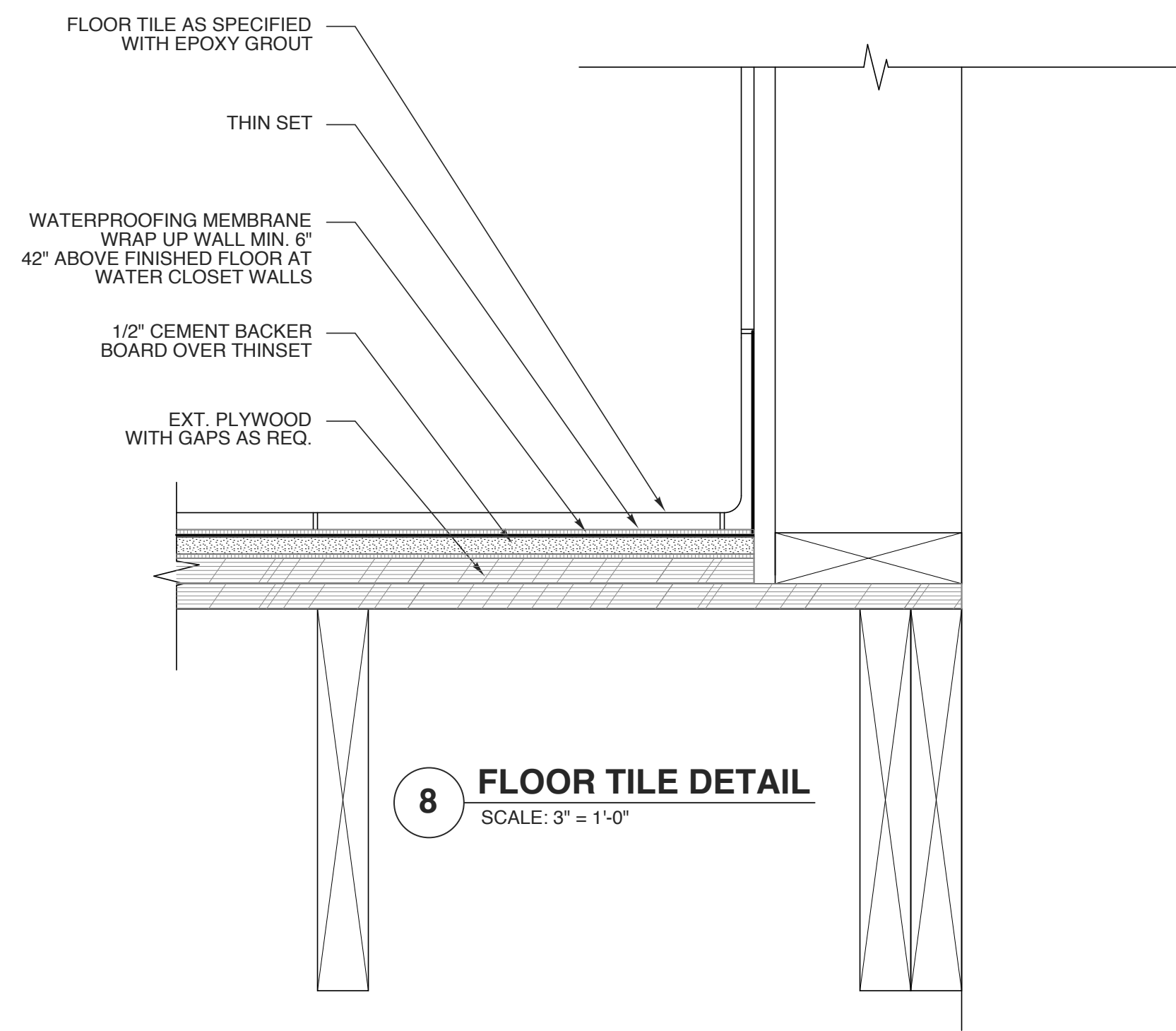


TOILET ACCESSORY SCHEDULE					
MARK	ITEM	MOUNT	MARK	ITEM	MOUNT
A	SURFACE-MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER (B-4288)	28" MIN. 48" MAX. A.F.S.	H	RECESSED FOLDED PAPER TOWEL DISP. AND WASTE RECEPTACLE (B-43944)	RE: ELEV.
B	AUTOMATIC HANDS FREE LIQUID SOAP DISPENSER (AJW U135 EA)	42" MAX. A.F.S.	J	WELDED FRAME MIRROR (B-2908-1830)	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 QUIET & VANDAL RESIST. (BRADEX 2902-28)	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	RECESSED SANITARY NAPKIN DISPOSAL (B-4353) WITH FIRE RATED ENCLOSURE (1HR)	25"-30" A.F.S.	N	RECESSED FOLDED PAPER TOWEL DISP. AND WASTE RECEPTACLE (B-4369)	RE: ELEV.
G	PARTITION MOUNTED SANITARY NAPKIN DISPOSAL (B-4354)	25"-30" A.F.S.			

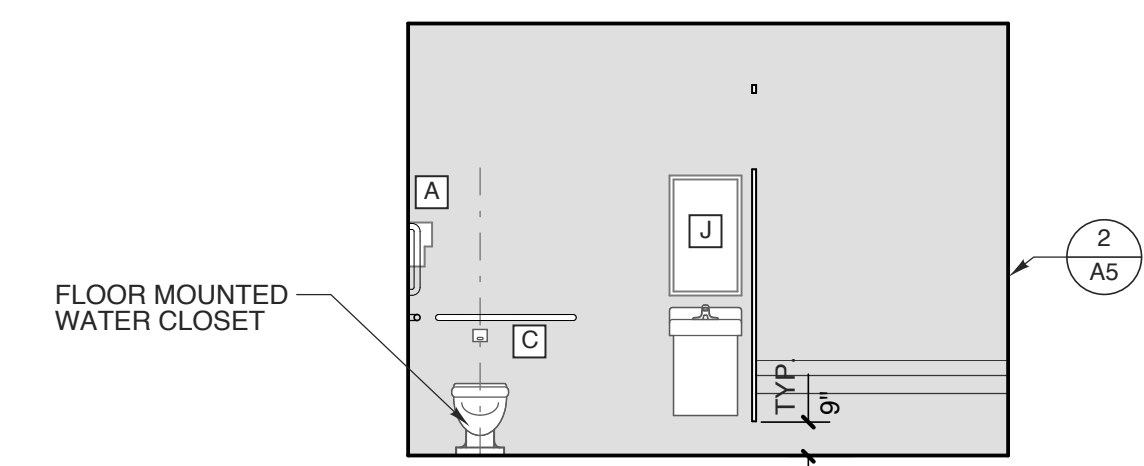
MANUFACTURER: BOBRICK WASHROOM EQUIPMENT U.N.O. OR APPROVED EQUAL-SEE SPECIFICATION
FINISH: SATIN STAINLESS STEEL
NOTE: GC TO INSTALL BLOCKING FOR ALL TOILET ACCESSORIES AND TOILET PARTITIONS AS REQ'D

11 TYPICAL HEIGHTS
SCALE: 1/2" = 1'-0"

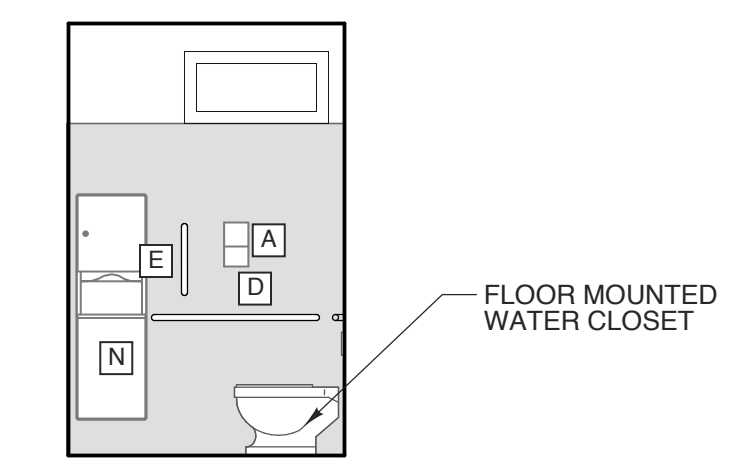
12 LAV. SECTION
SCALE: 1/2" = 1'-0"



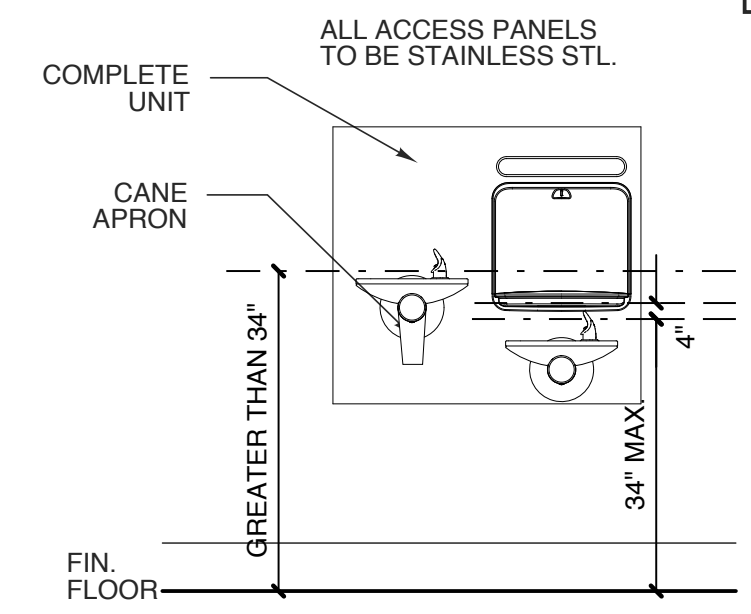
8 FLOOR TILE DETAIL
SCALE: 3" = 1'-0"



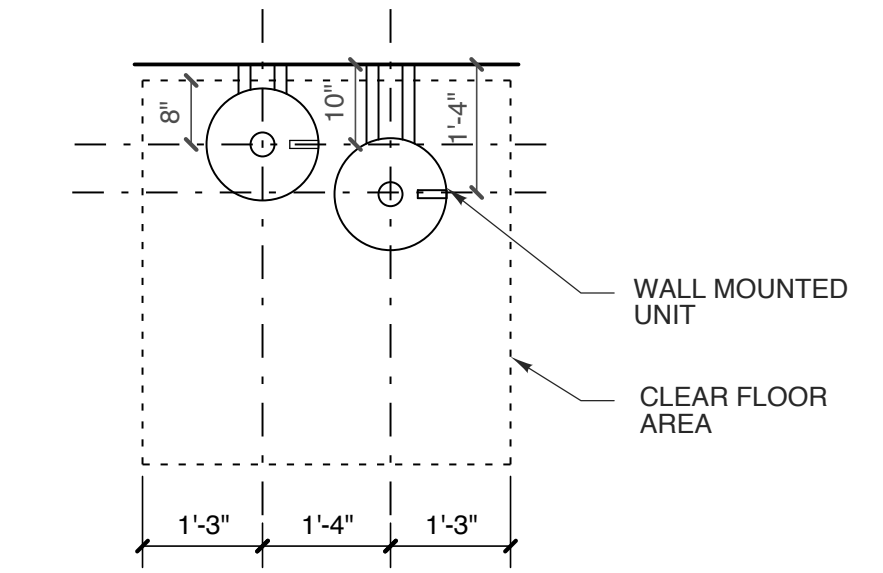
10 ELEV.-FAMILY
SCALE: 1/4" = 1'-0"



9 ELEV.-FAMILY
SCALE: 1/4" = 1'-0"



6 HC DF ELEVATION
SCALE: 1/2" = 1'-0"

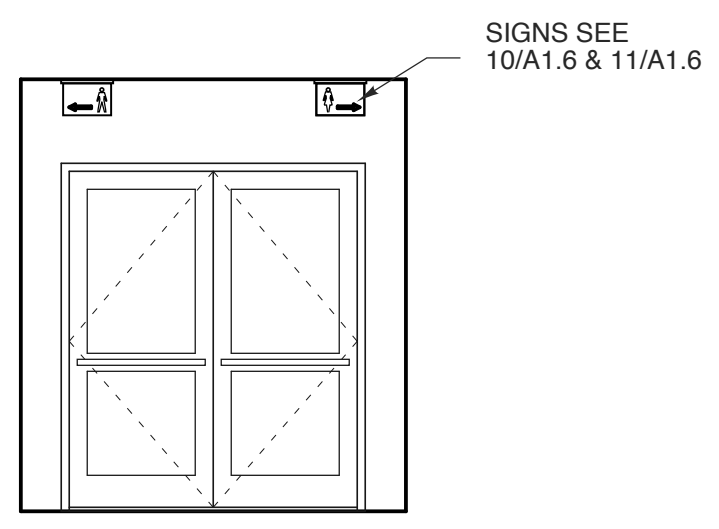


5 HC DF PLAN
SCALE: 1/2" = 1'-0"

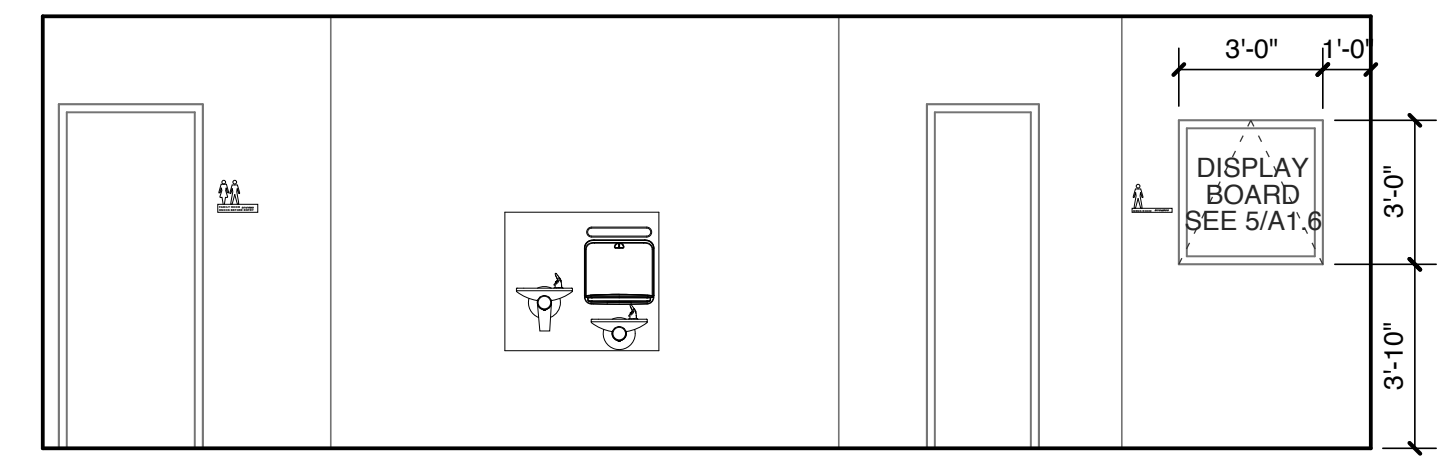
7 ANTI-GRIP HEADRAIL
SCALE: NTS

SEE SHEETS A1.7-A1.12 FOR TILE INFORMATION

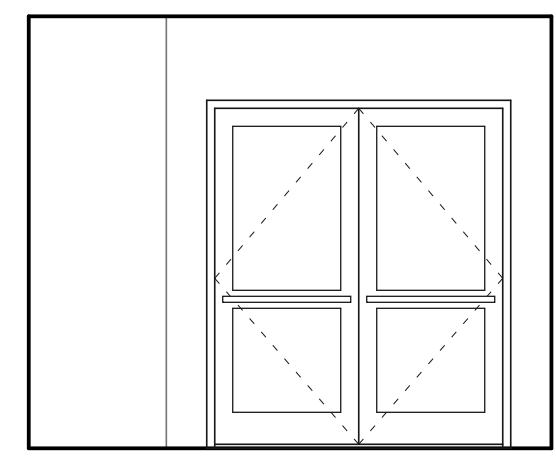
SEE SHEETS A1.7-A1.12 FOR TILE INFORMATION



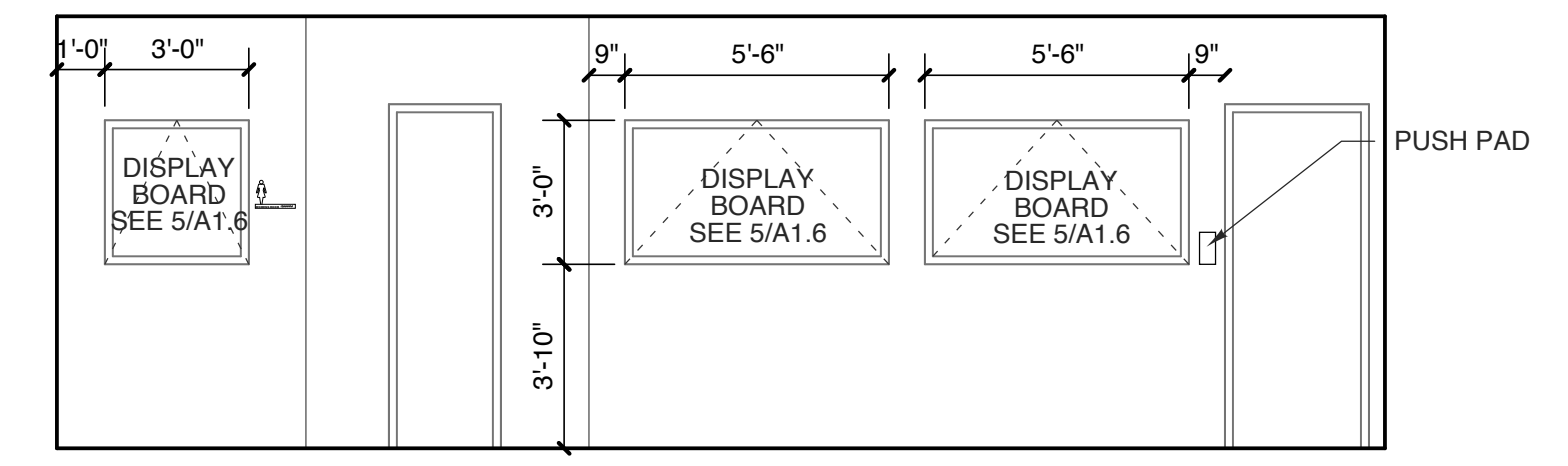
4 ELEV.-LOBBY
SCALE: 1/4" = 1'-0"



3 ELEV.-LOBBY-LOOKING TOWARD MEN
SCALE: 1/4" = 1'-0"



2 ELEV.-LOBBY
SCALE: 1/4" = 1'-0"



1 ELEV.-LOBBY-LOOKING TOWARD WOMEN
SCALE: 1/4" = 1'-0"

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8/11/2017

STATE ID#: 17-17533-01A
WBS ELEMENT: 51213.031

PROJECT TITLE
**CARTERET COUNTY
REST AREA**
3409 ARENDELL STREET
MOREHEAD CITY, NORTH CAROLINA

PROJECT NO.
1604b
DRAWING TITLE
INT. ELEV. & DETAILS

SHEET 8 OF 19

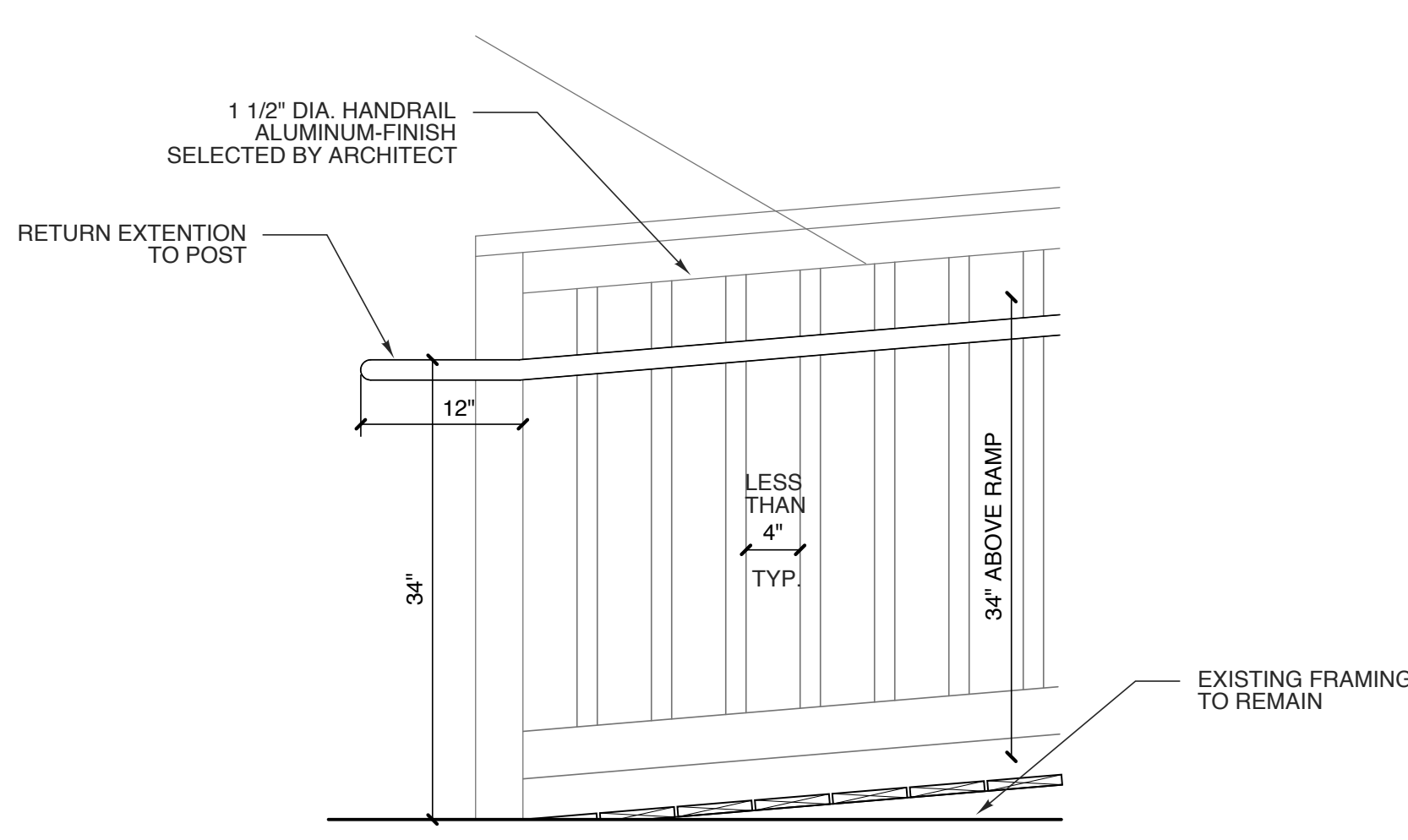
A1.5

PLOT DATE 8/11/17
ISSUE DATE 8/10/17

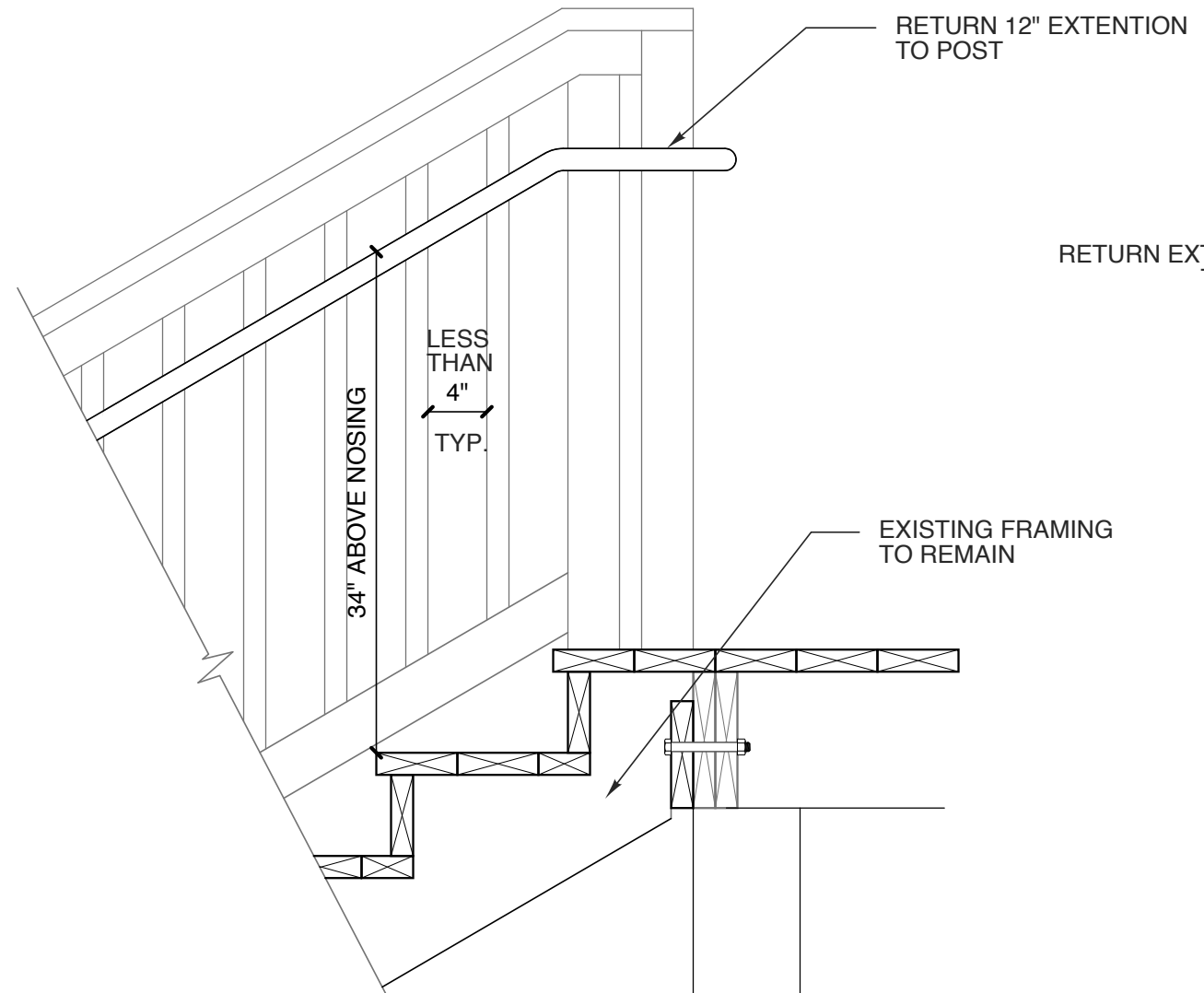
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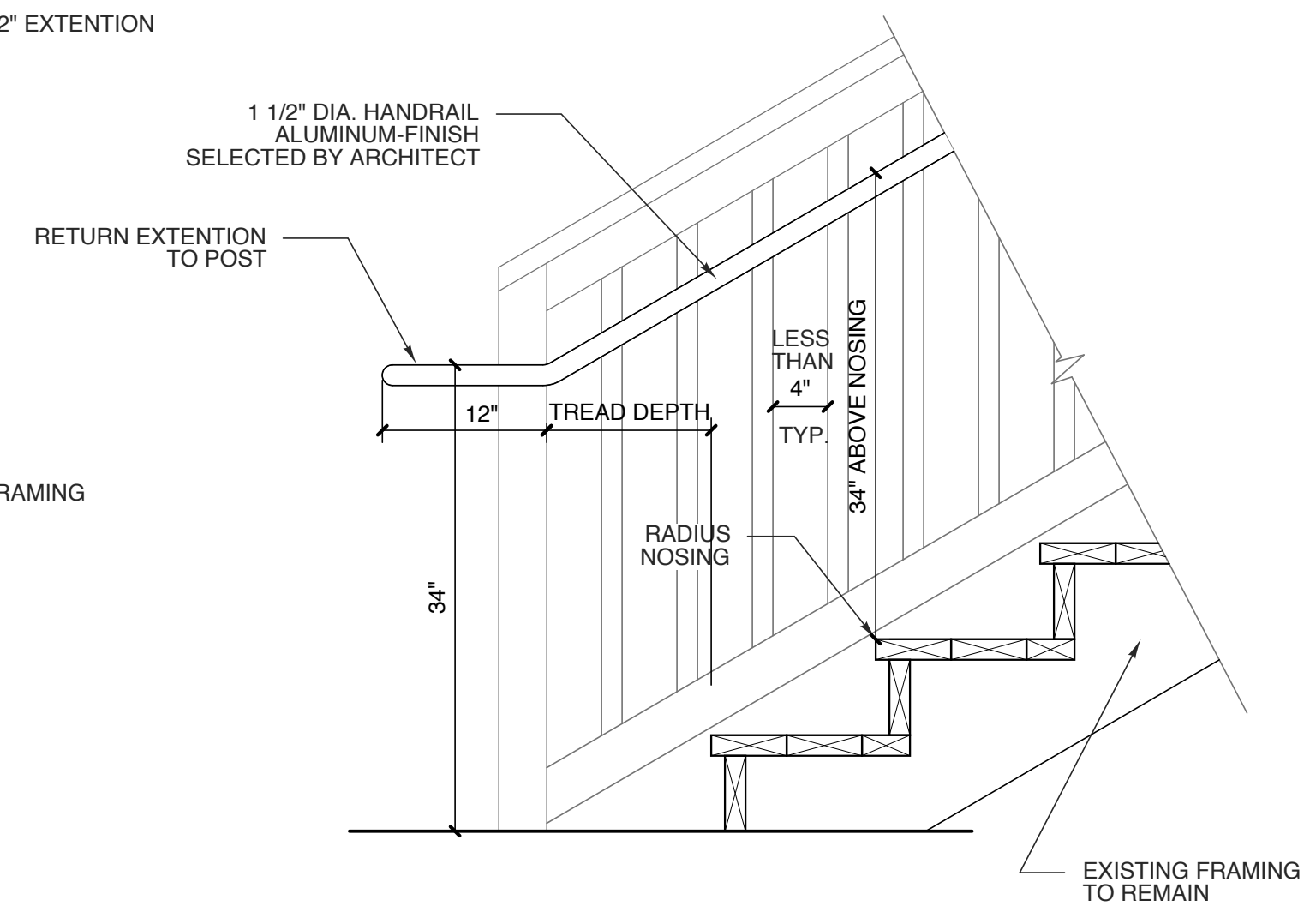
DocuSigned by:
Ginger S. Anderson
8/11/2017



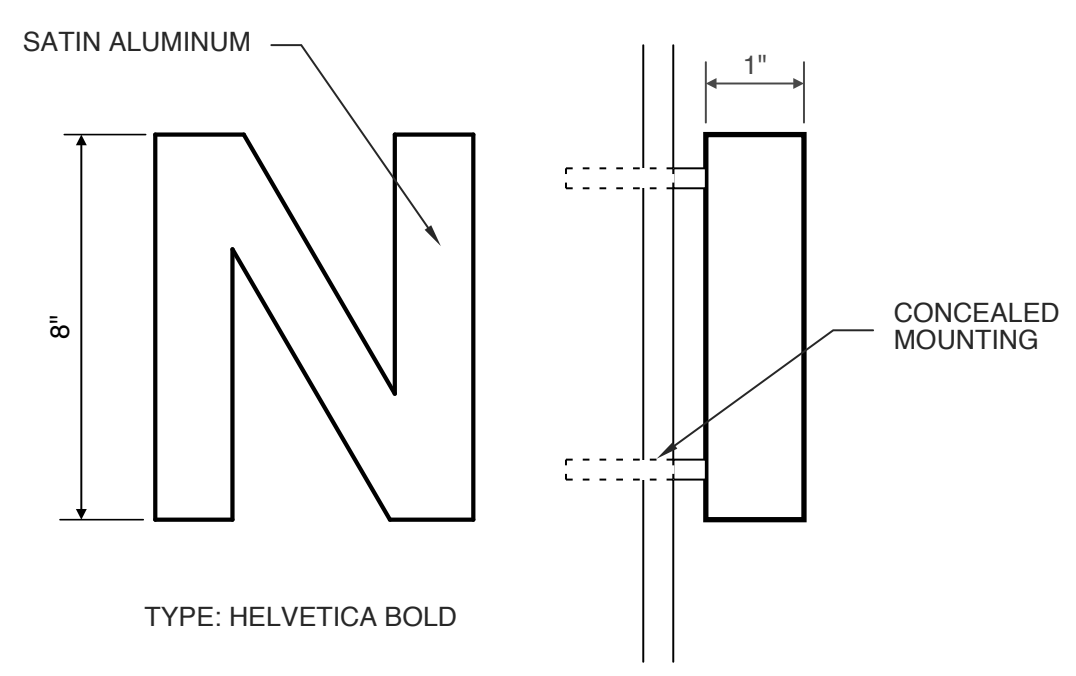
17 HANDRAIL DETAIL @ RAMP
SCALE: 1" = 1'-0"



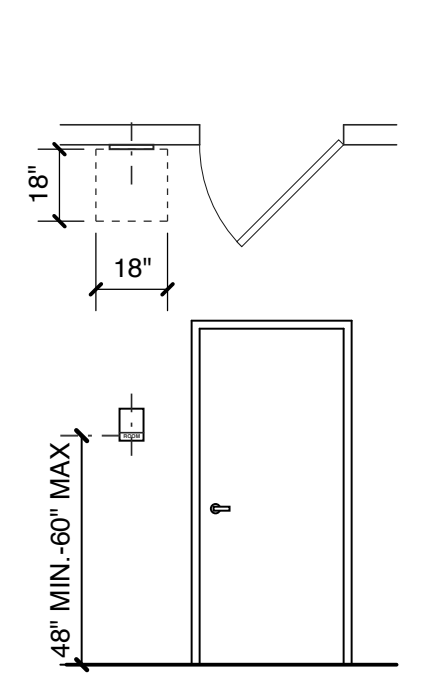
16 HANDRAIL DETAIL @ STAIR OR RAMP
SCALE: 1" = 1'-0"



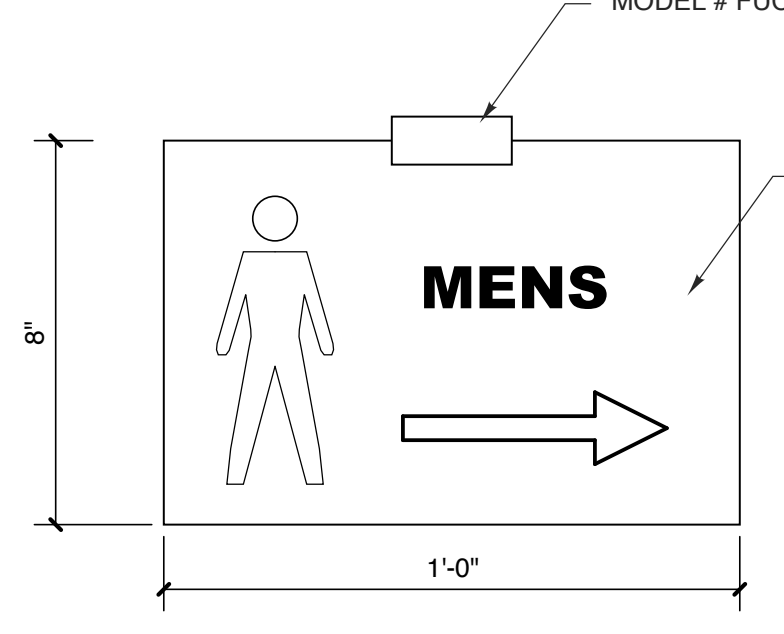
15 HANDRAIL DETAIL @ STAIR
SCALE: 1" = 1'-0"



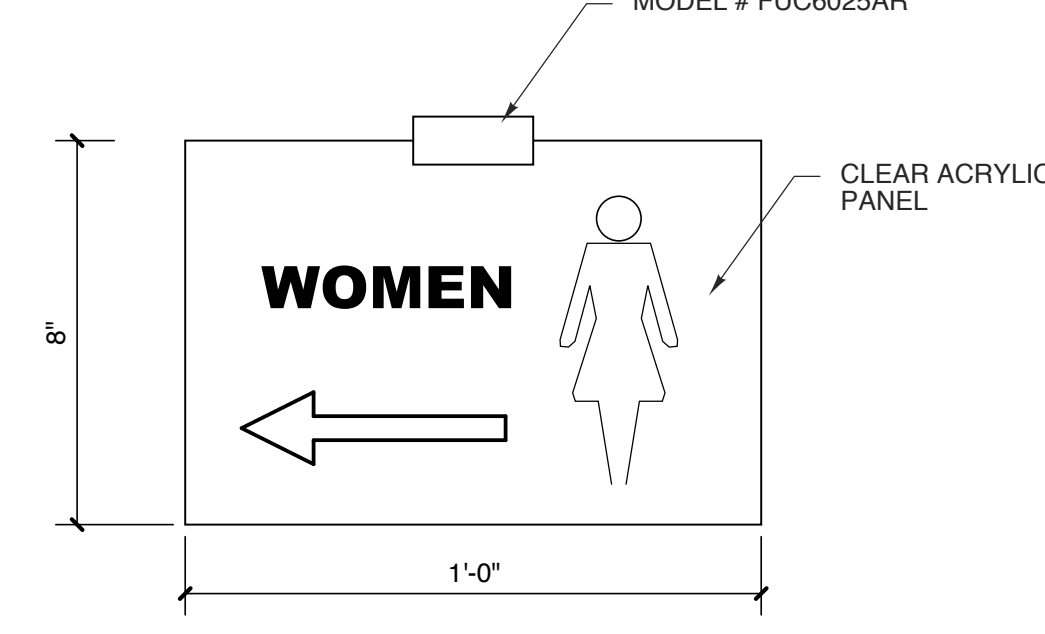
14 DIMENSIONAL LETTER
SCALE: 3" = 1'-0"



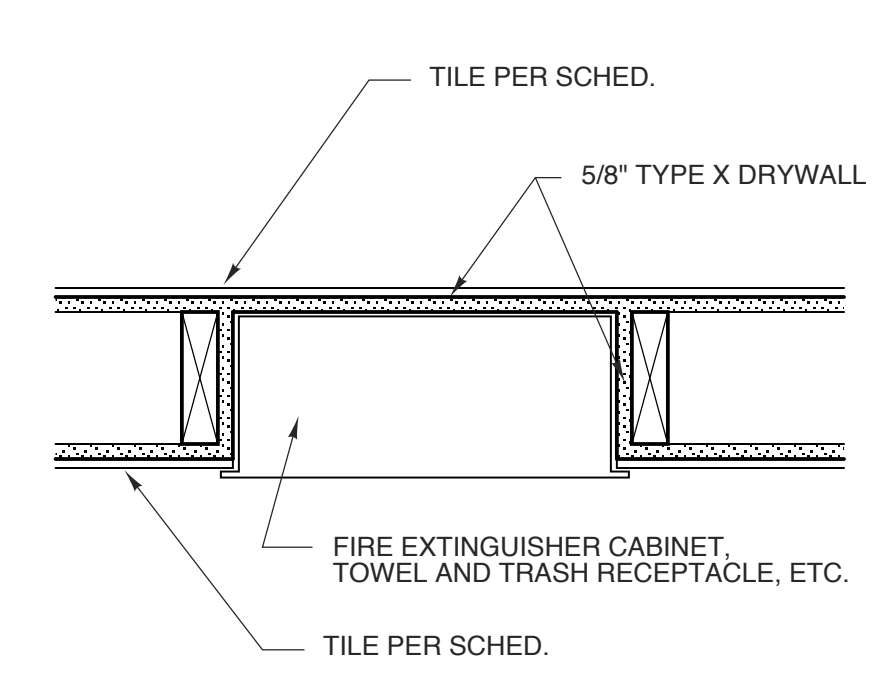
13 SIGNAGE PLACEMENT
SCALE: 1/4" = 1'-0"



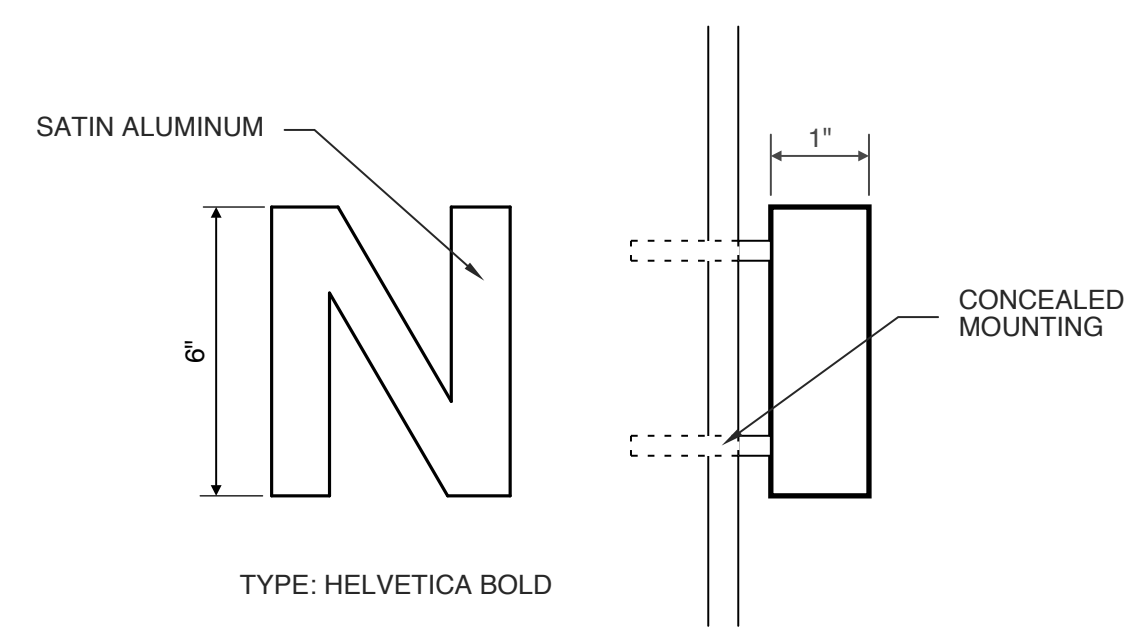
12 CEILING MOUNTED SIGN
SCALE: 3" = 1'-0"



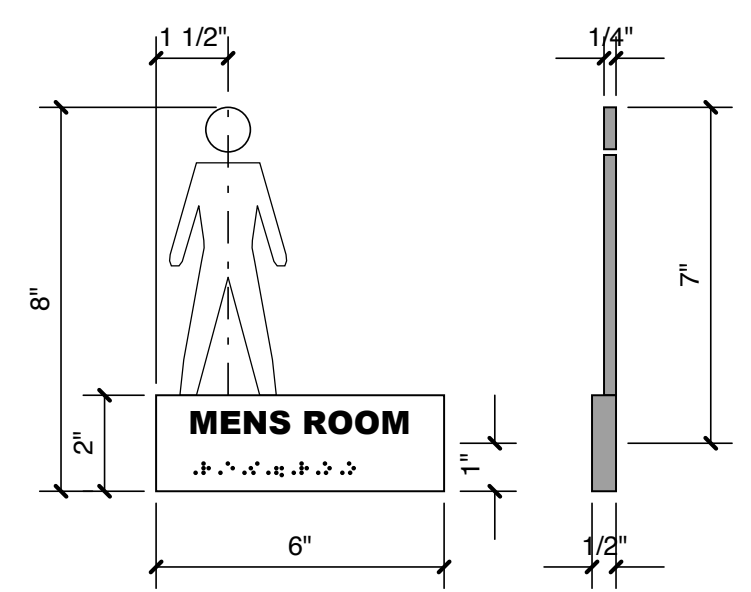
11 CEILING MOUNTED SIGN
SCALE: 3" = 1'-0"



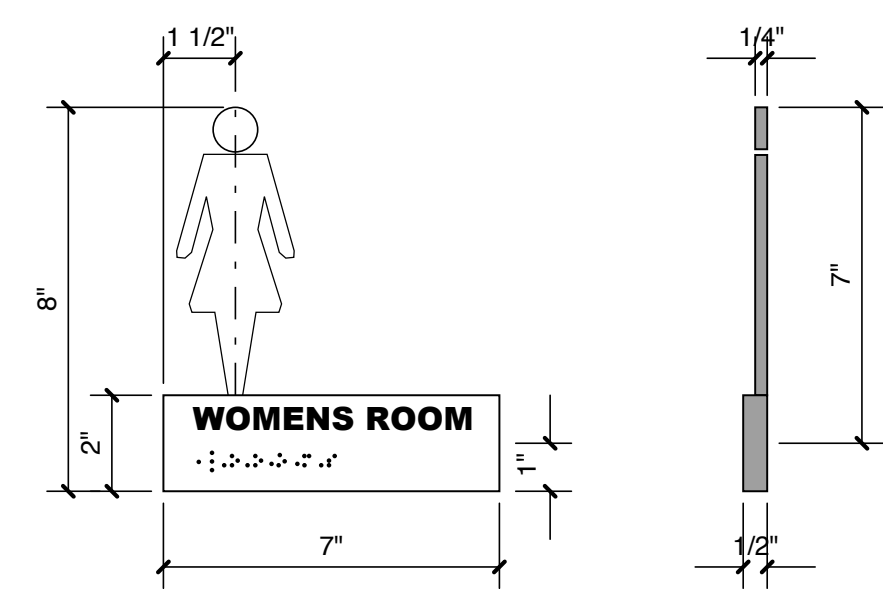
10 WALL MOUNTED ACCESSORIES
SCALE: 1 1/2" = 1'-0"



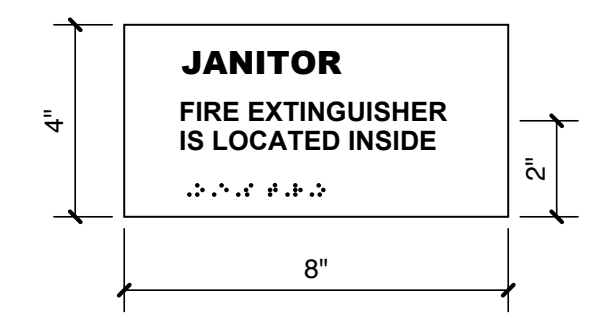
9 DIMENSIONAL LETTER
SCALE: 3" = 1'-0"



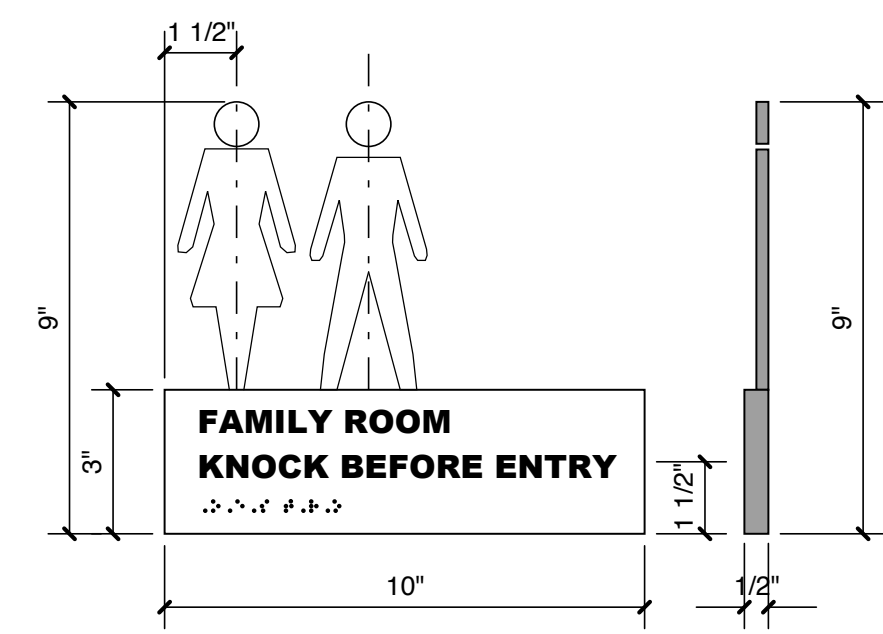
8 MEN'S ROOM SIGNAGE
SCALE: 3" = 1'-0"



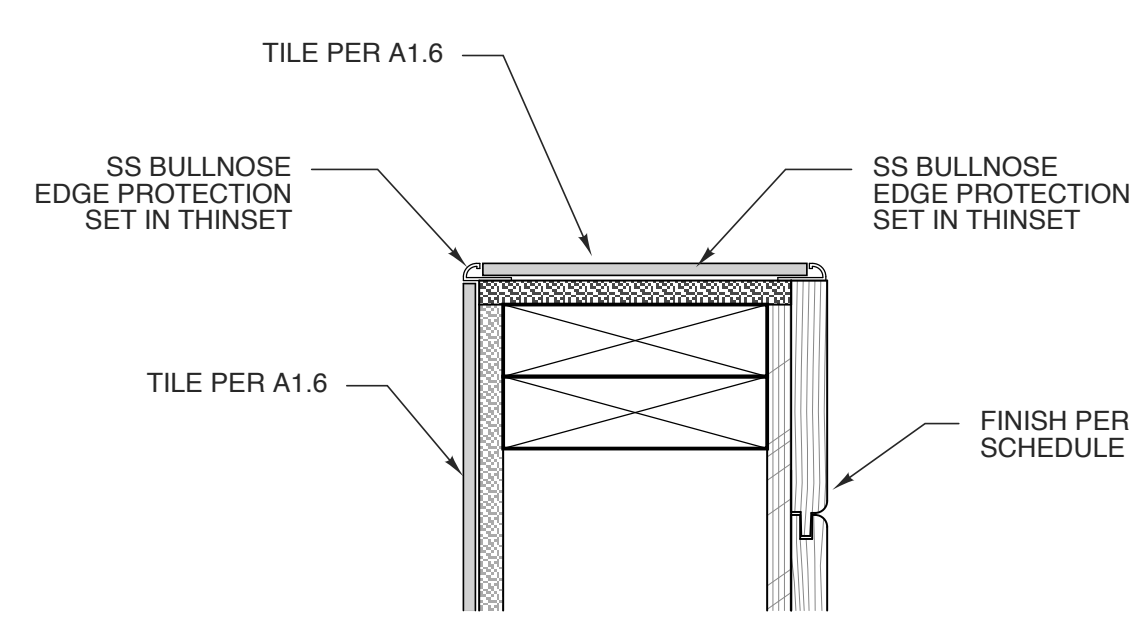
7 WOMEN'S ROOM SIGNAGE
SCALE: 3" = 1'-0"



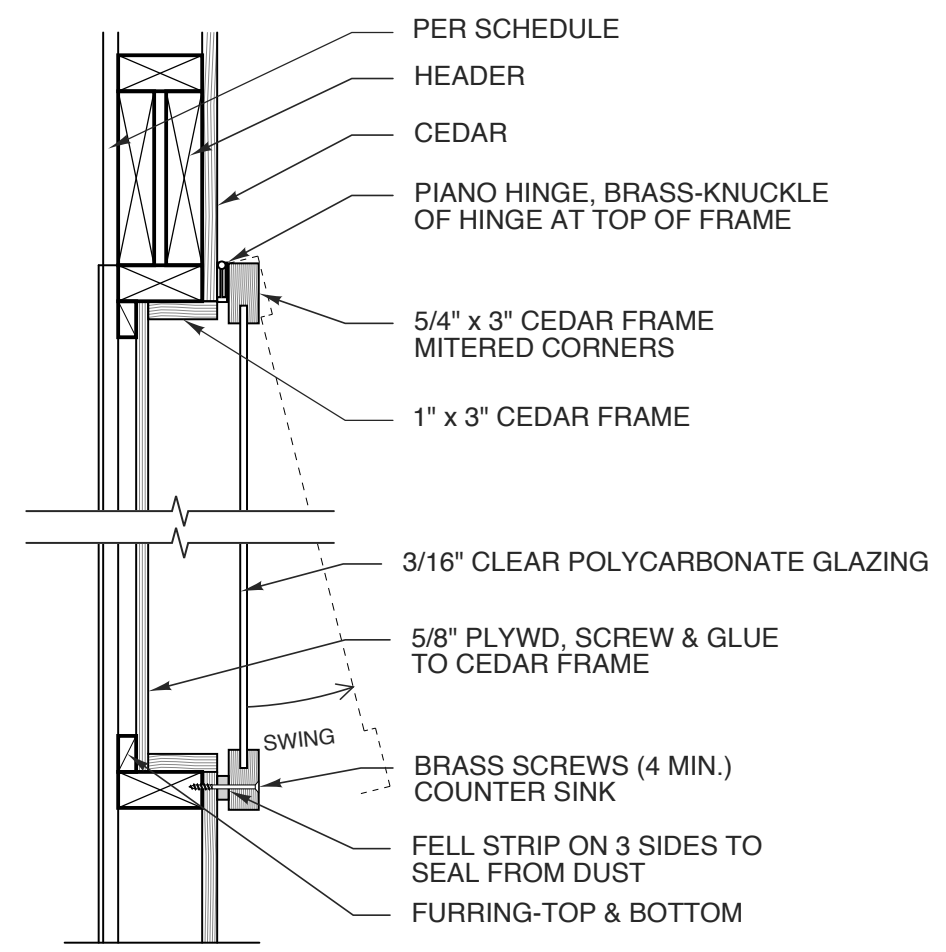
6 JANITOR SIGNAGE
SCALE: 3" = 1'-0"



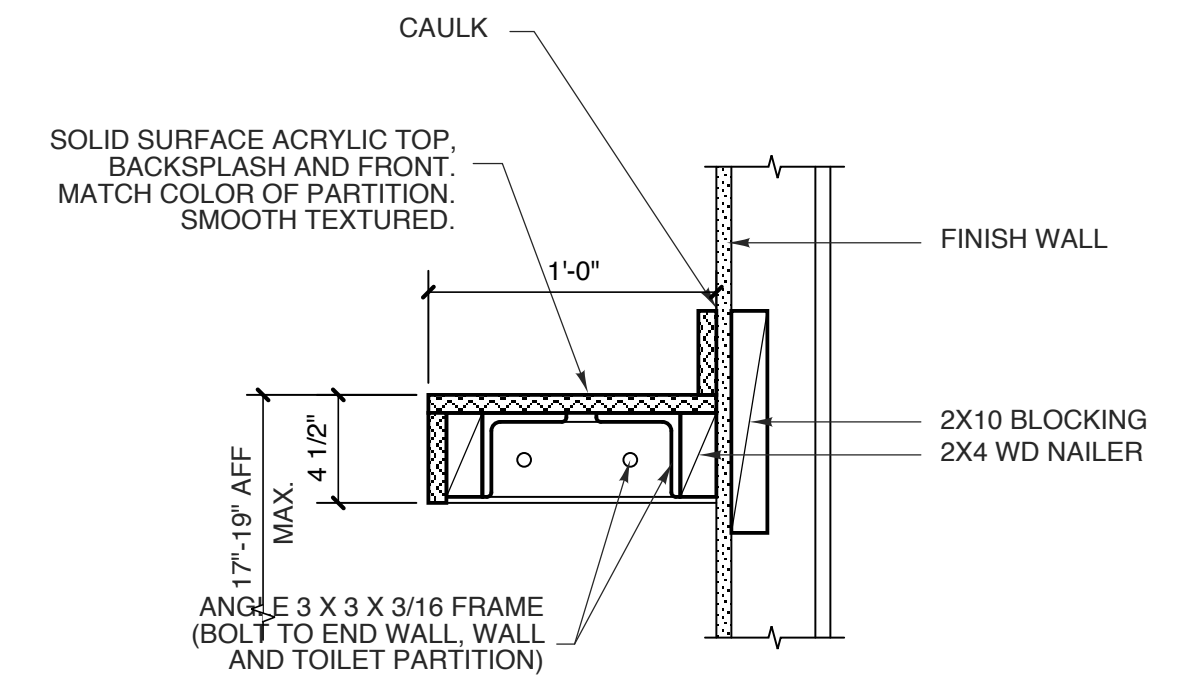
5 FAMILY ROOM SIGNAGE
SCALE: 3" = 1'-0"



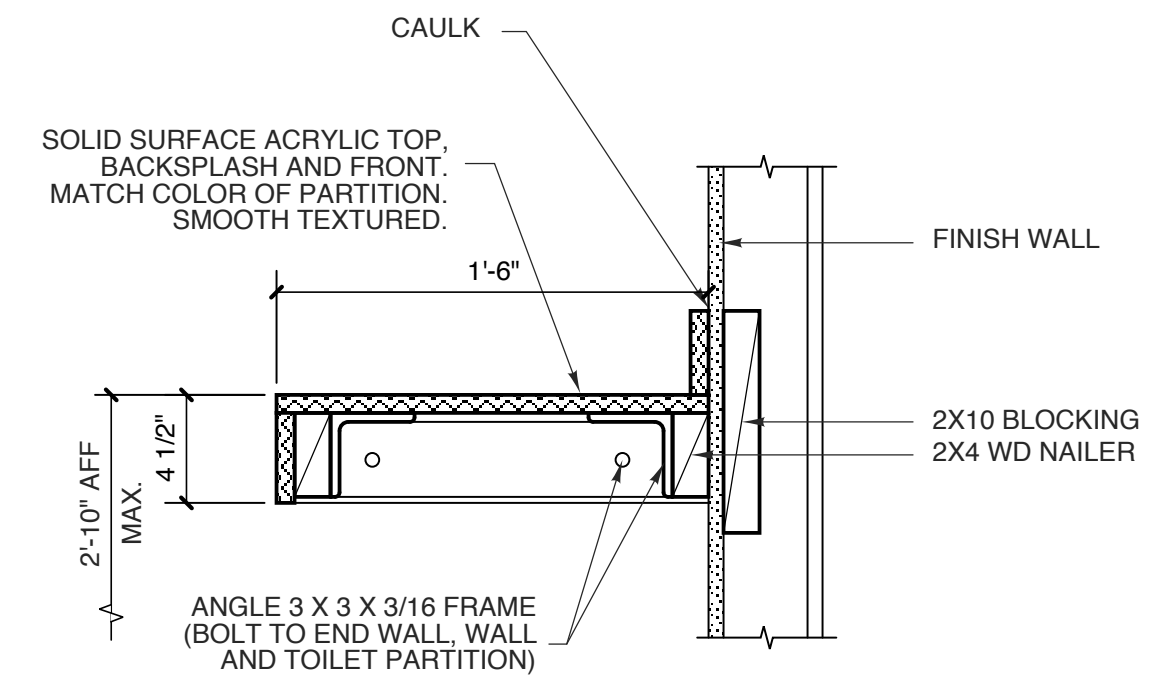
4 OUTSIDE CORNER/END WALL
SCALE: 3" = 1'-0"



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



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



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

STATE ID#: 17-17533-01A
WBS ELEMENT: 51213.031

PROJECT TITLE
**CARTERET COUNTY
REST AREA**
3409 ARENDELL STREET
MOREHEAD CITY, NORTH CAROLINA

PROJECT NO.
1604a
DRAWING TITLE
DETAILS

SHEET 12 OF 13

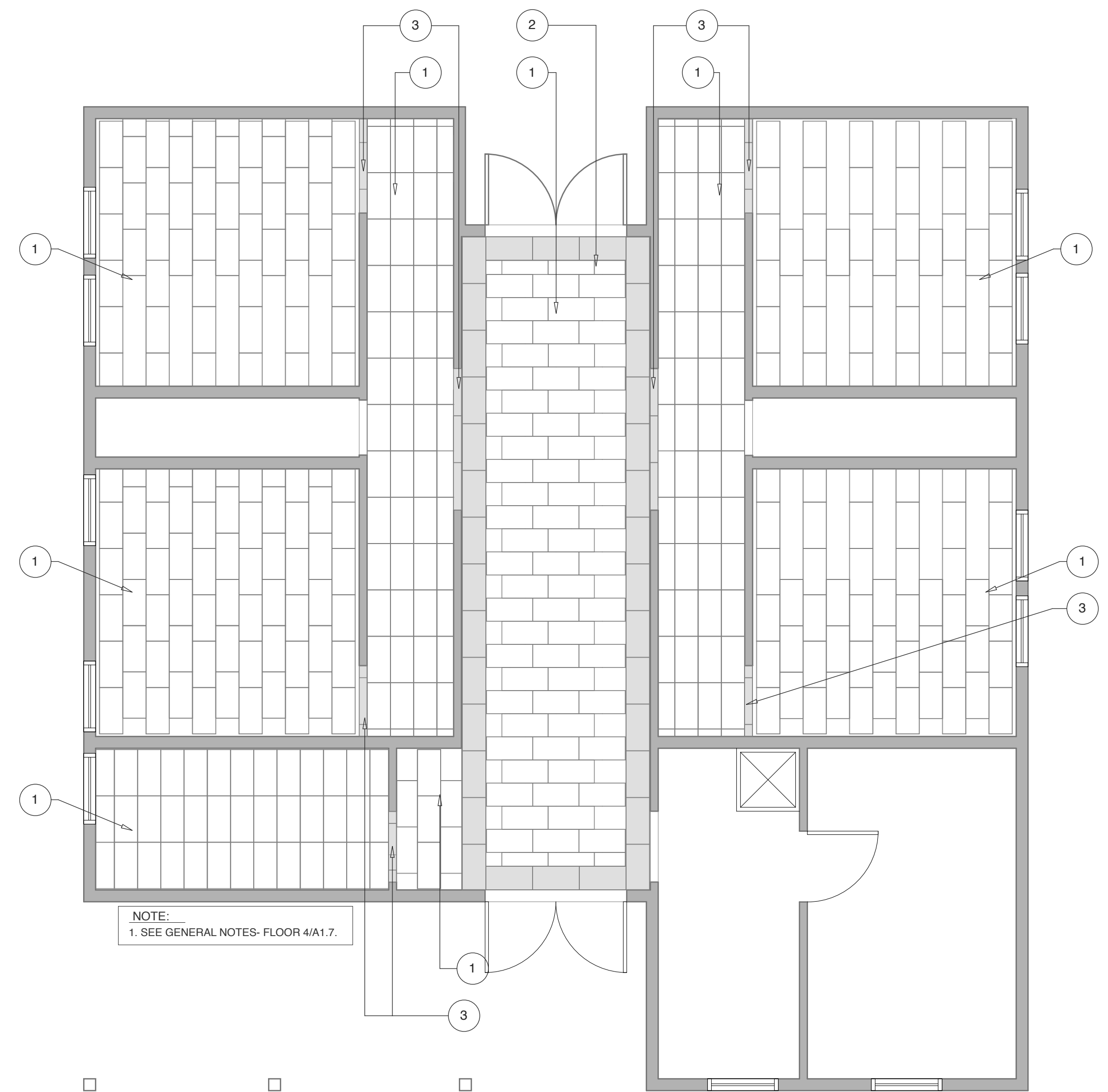
A1.6

PLOT DATE 8/11/17
ISSUE DATE 8/10/17

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DocuSigned by:
Ginger S. Anderson
E9028345062C422
8/11/2017



NOTE:
1. SEE GENERAL NOTES- FLOOR 4/A1.7.

2 FLOOR TILE PATTERN
A1.7 SCALE: NTS

LEGEND- TILE:		
LOCATION	MANUFACTURER	PRODUCT LINE/NAME
FIELD:	DALTILE	RIVER MARBLE, 12"X 24" SANDY FLATS RM91- UNPOLISHED
BORDER:	DALTILE	PLAZA NOVA, 12"X 24" BROWN VISION PN96
ACCENT:	DALTILE	PLAZA NOVA, 4"X 24" BROWN VISION PN96

5 LEGEND- TILE
A1.7 SCALE: 1/4" = 1'-0"

FLOOR TILE IDENTIFICATION NUMBER	
1	FIELD TILE
2	BORDER
3	ACCENT

7 LEGEND- TILE
A1.7 SCALE: 1/4" = 1'-0"

LEGEND- GROUT:		
LOCATION	MANUFACTURER	PRODUCT LINE/NAME
FIELD:	CUSTOM BUILDING PRODUCTS	# 92 ADMIRAL BLUE
BORDER:	CUSTOM BUILDING PRODUCTS	# 92 ADMIRAL BLUE
ACCENT:	CUSTOM BUILDING PRODUCTS	# 92 ADMIRAL BLUE

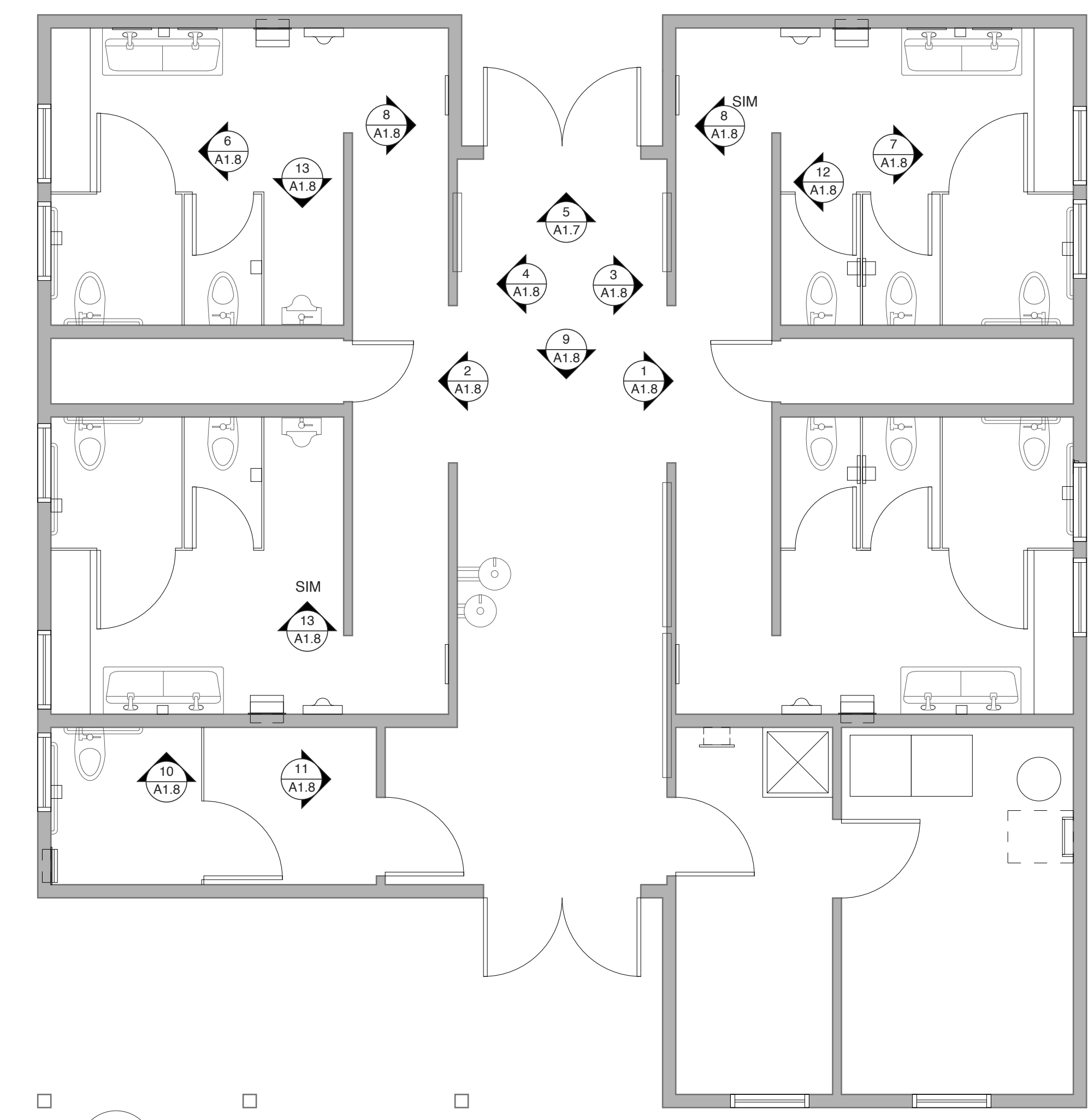
6 LEGEND- GROUT
A1.7 SCALE: 1/4" = 1'-0"

- GENERAL NOTES- WALL:**
1. THE GC SHALL BE RESPONSIBLE FOR FIELD VERIFICATION ALL DIMENSIONS.
 2. FOR TILE, SEE LEGENDS 1- 13/A1.9.
 3. FOR GROUT, SEE LEGEND 15/A1.9.
 4. FOR PAINT AND STAIN, SEE LEGEND 16/A1.9.
 5. FOR OUTSIDE CORNER WALL, SEE LEGEND 14/A1.9.
 6. FOR LAVATORY/ WATER (WATERCLOST/ URINAL)/ WATER FOUNTAIN WALLS, CENTER TILE ON FIXTURE. COORDINATE WITH GC AND PLUMBER THE CENTER OF THE FIXTURE.
 7. FOR LAVATORY/ WATER WALLS (MEN 1, MEN 2, WOMEN 1, WOMEN 2) FIELD TILE SHALL BE RUN HORIZONTALLY (STACKED) AND IS 3/8" THICKNESS ADJOINING ACCENT TILE AND SHALL BE RUN VERTICALLY AND IS 1/4" THICKNESS. CONTRACTOR IS REQUIRED TO INSTALL THE ACCENT TILE TO A FLUSH LEVEL WITH FIELD TILE.
 8. FOR WATER WALLS (MEN 1, MEN 2, WOMEN 1, WOMEN 2), CUT ACCENT TILE 60" WIDE INTO 24" WIDE AND CENTER ON EACH FIXTURE.
 9. FOR FIELD WALL (FAMILY ROOM), FIELD TILE SHALL BE RUN VERTICALLY (STACKED) AND CENTER ON EACH FIXTURE.
 10. FOR LARGE SIZE TILE (20" AND LARGER), SEE MANUFACTURER RECOMMENDATION.
 11. FOR RECTANGULAR INSTALLATION, SEE MANUFACTURER RECOMMENDATION.
 12. FOR GROUT JOINT, SEE MANUFACTURER RECOMMENDATION.
 13. ALIGN VERTICAL TILE JOINTS IN LOBBY.
 14. ALIGN HORIZONTAL TILE JOINTS IN FAMILY.
 15. FOR ALTERNATE PIPE CHASE WALL (WOMEN & MEN), SEE ART WORK WALL ALTERNATE- 1 ELEV. 1/A1.11. SEE GENERAL NOTES- WALL NOTE 18.
 16. FOR ALTERNATE DISPLAY CASE- 2 WALL, SEE ART WORK WALL ALTERNATE- 2 ELEV. 1/A1.12. SEE GENERAL NOTES- WALL NOTE 18.
 17. FOR ALTERNATE WATER FOUNTAIN WALL, SEE ART WORK WALL ALTERNATE- 3 ELEV. 4/A1.12. SEE GENERAL NOTES- WALL NOTE 18.
 18. ALL ART WALLS TO BE WATER JET CUT AND INSTALLED BY A COMPANY WITH EXPERIENCE IN THIS CUTTING METHOD. MOCK-UPS TO BE PROVIDED AND APPROVED BY DESIGNER PRIOR TO WORK. ANY SUBSTITUTION TO BE SUBMITTED FOR APPROVAL 10 DAYS PRIOR TO BIDDING.

3 GENERAL NOTES- WALL
A1.7 SCALE: 1/4" = 1'-0"

- GENERAL NOTES- FLOOR:**
1. THE GC SHALL BE RESPONSIBLE FOR FIELD VERIFICATION ALL DIMENSIONS.
 2. FOR TILE, SEE LEGEND 5/A1.7.
 3. FOR GROUT, SEE LEGEND 6/A1.7.
 4. FOR IDENTIFICATION NUMBER, SEE 7/A1.7.
 5. FOR STAGGERED INSTALLATION, SEE MANUFACTURE RECOMMENDATION.
 6. FOR GROUT JOINT, SEE MANUFACTURER RECOMMENDATION.
 7. TILE INSTALLER TO DISTRIBUTE TILE EVENLY ACROSS THE TILED AREA AVOIDING SMALL TILE.

4 GENERAL NOTES- FLOOR
A1.7 SCALE: 1/4" = 1'-0"



1 KEY PLAN
A1.7 NTS

STATE ID#: 17-17533-01A
WBS ELEMENT: 51213.031

PROJECT TITLE
**CARTER COUNTY
REST AREA**
3409 ARENDELL STREET
MOREHEAD CITY, NORTH CAROLINA

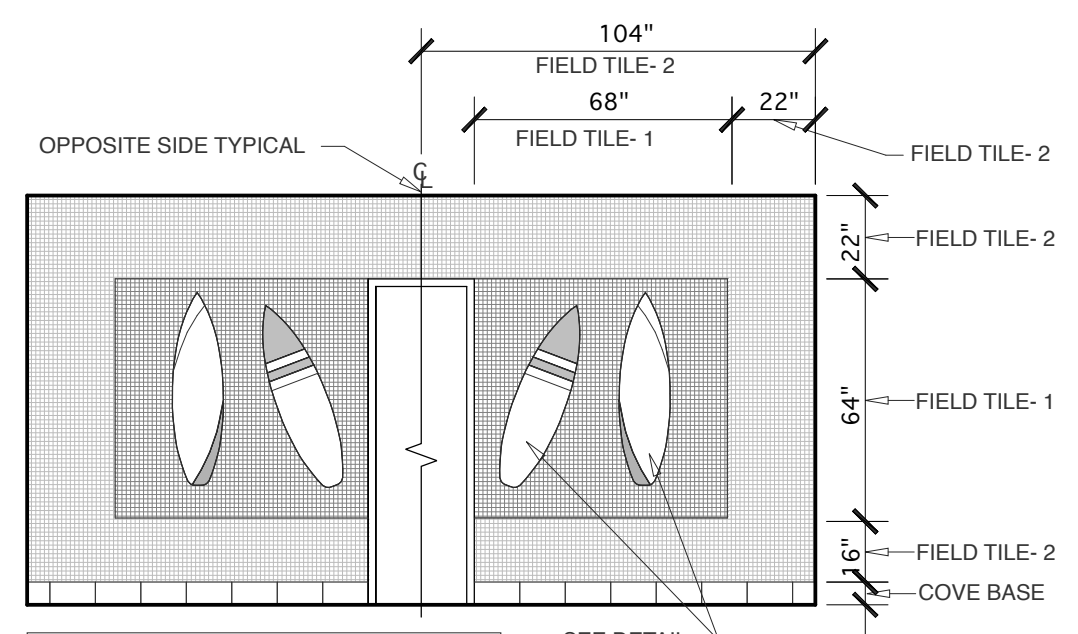
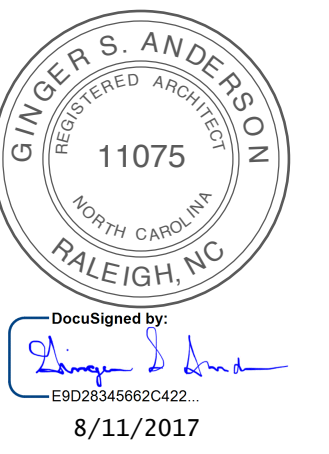
PROJECT NO.
1604a
DRAWING TITLE
TILE LAYOUT

SHEET 10 OF 19

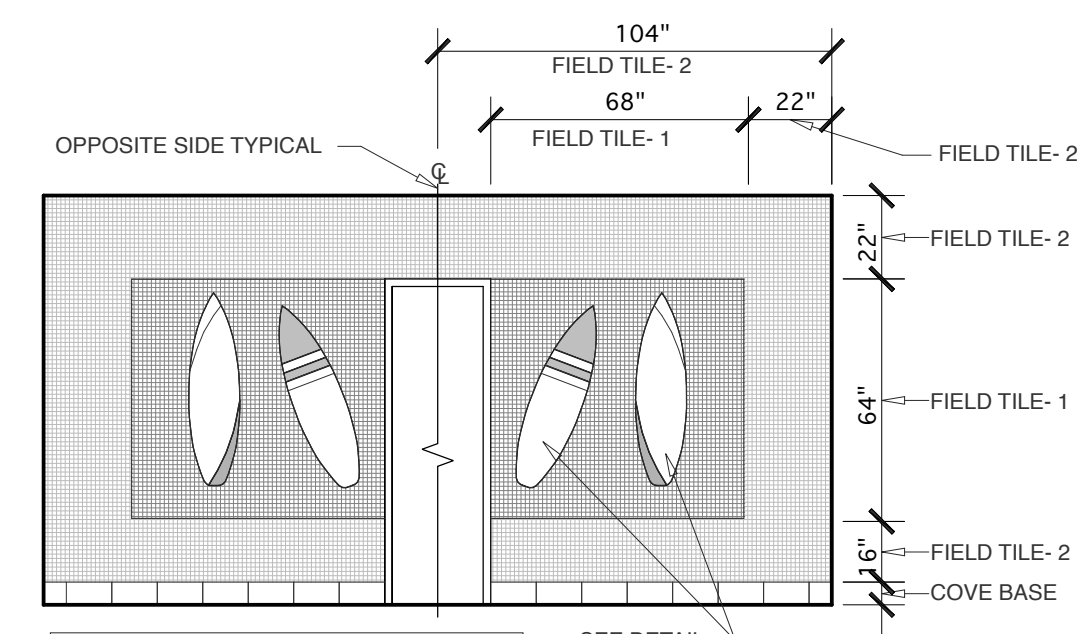
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PLOT DATE 8/11/17
ISSUE DATE 8/10/17

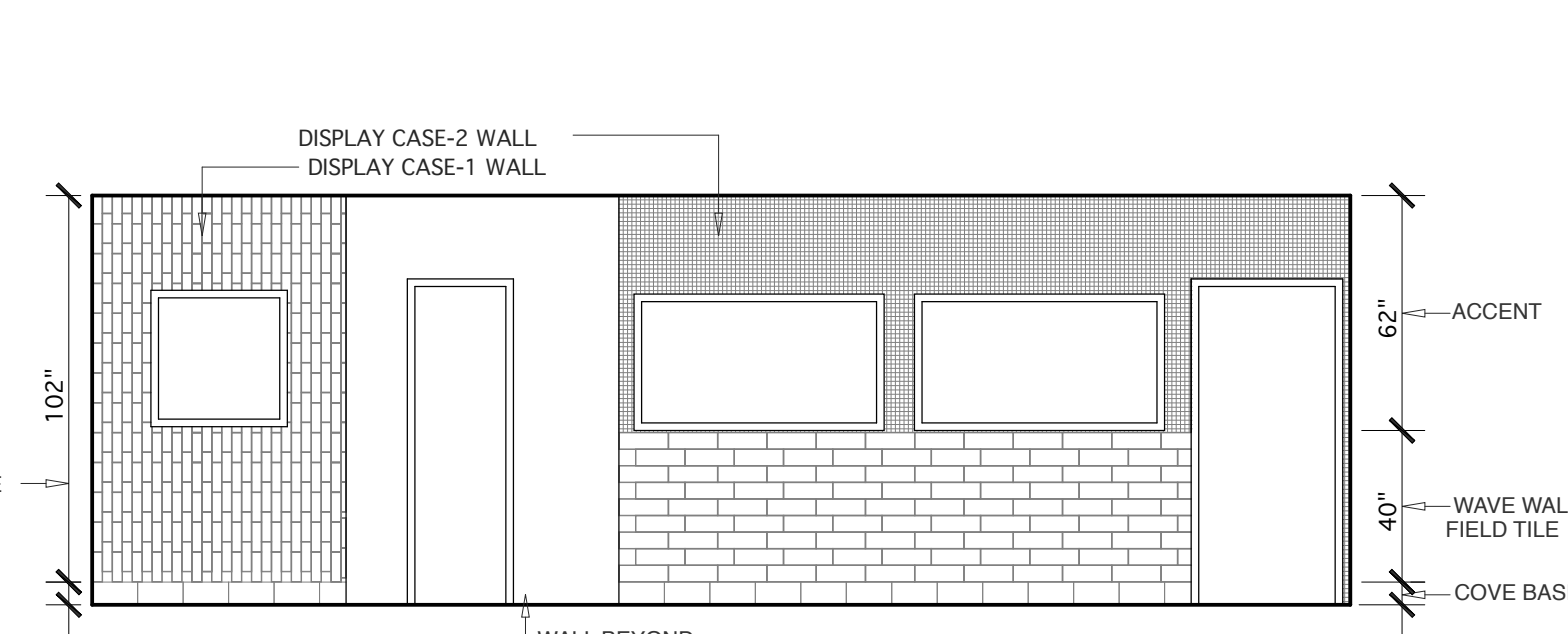
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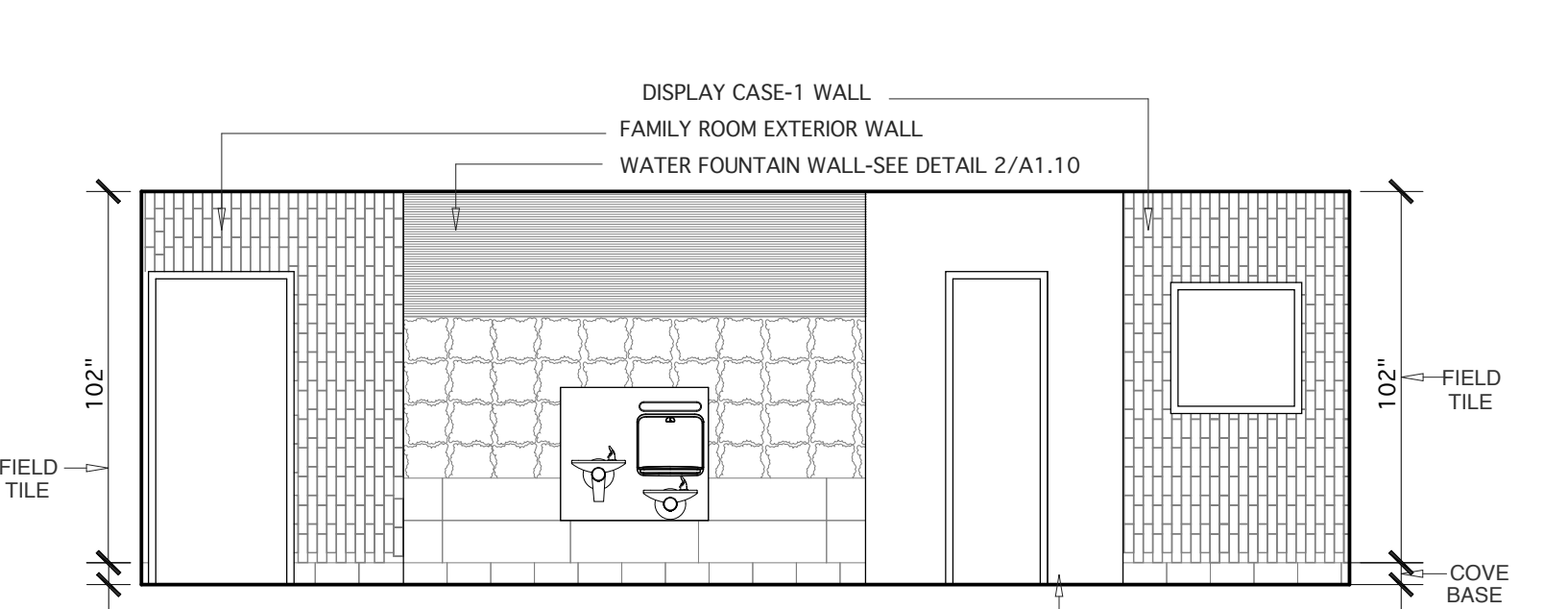
1 ELEV- PIPE CHASE WALL- WOMEN
A1.8 SCALE: 1/4" = 1'-0"



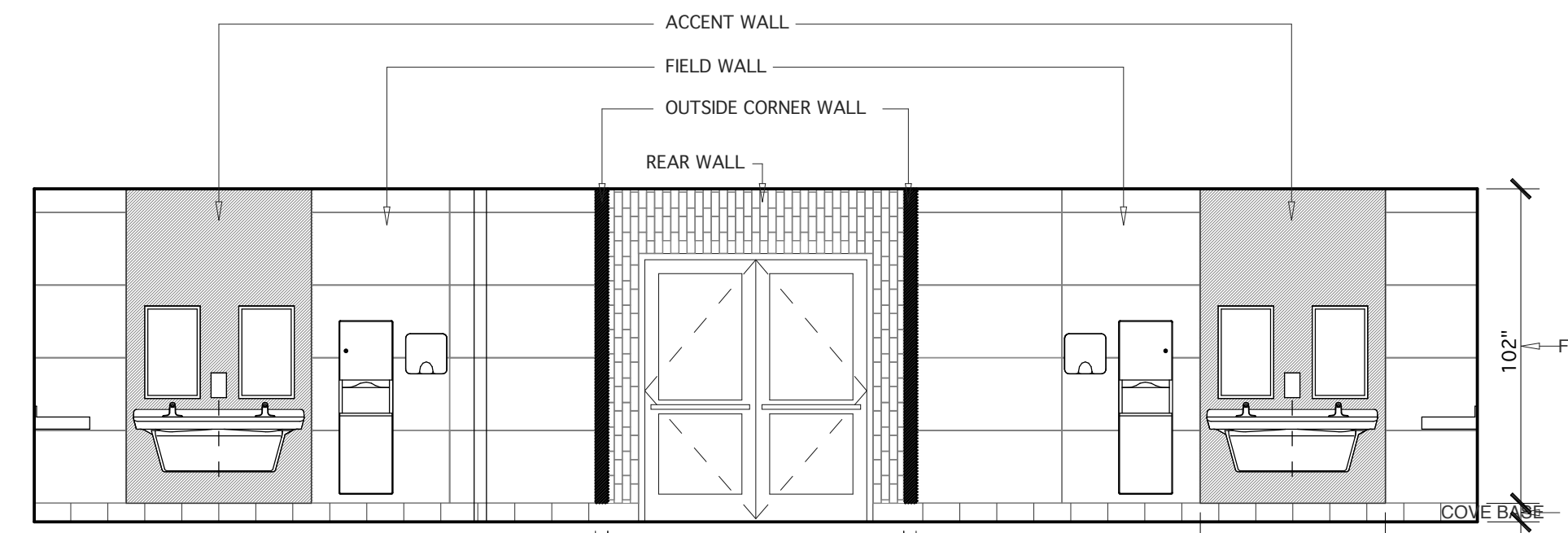
2 ELEV- PIPE CHASE WALL- MEN
A1.8 SCALE: 1/4" = 1'-0"



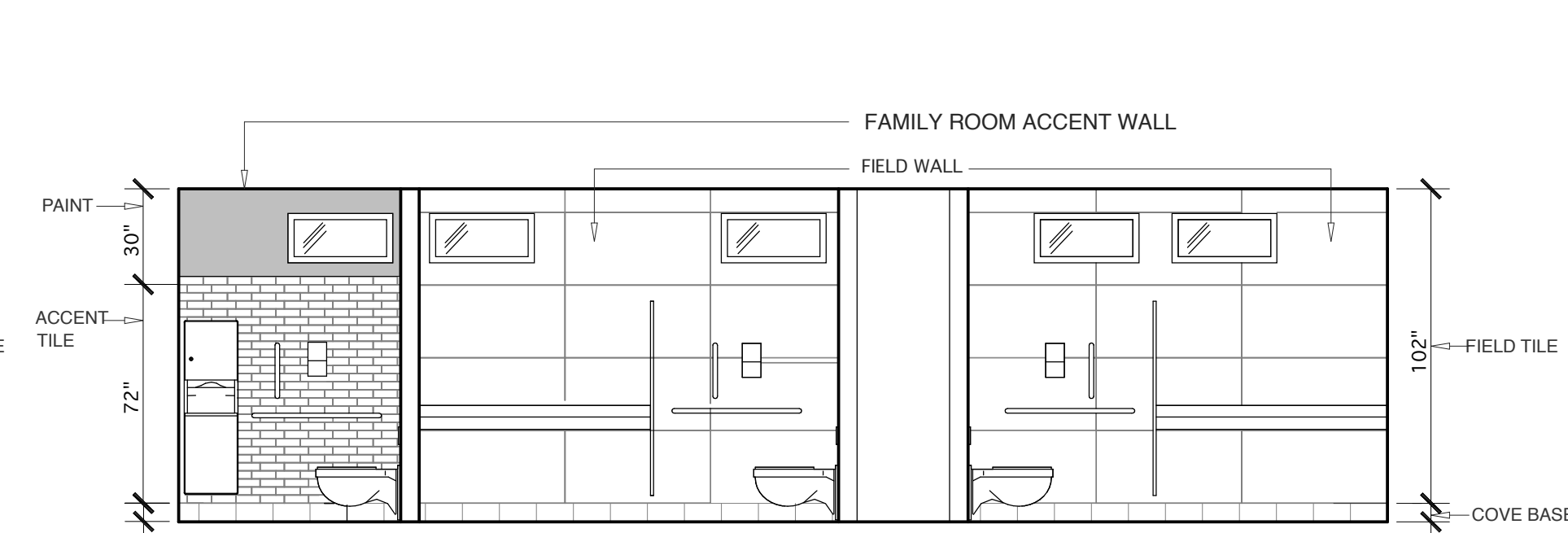
3 ELEV- LOBBY- LOOKING TOWARD WOMEN
A1.8 SCALE: 1/4" = 1'-0"



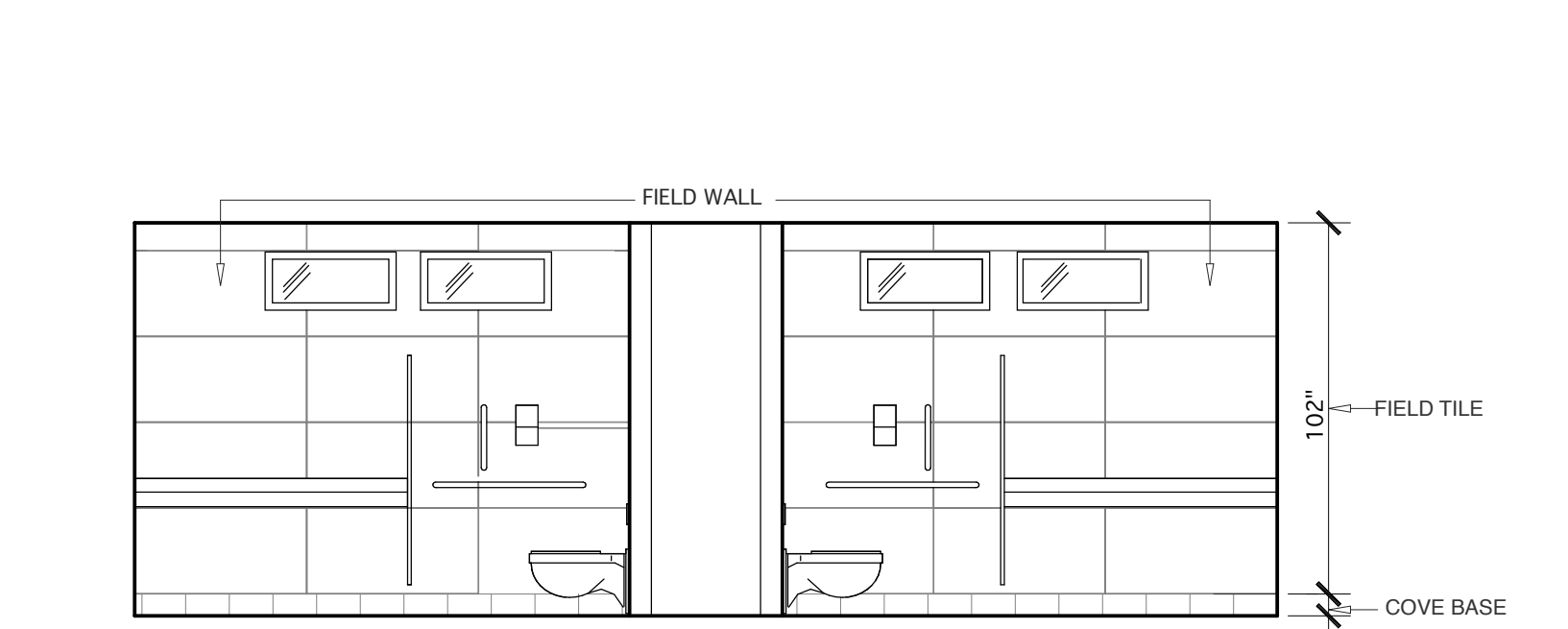
4 ELEV- LOBBY- LOOKING TOWARD MEN
A1.8 SCALE: 1/4" = 1'-0"



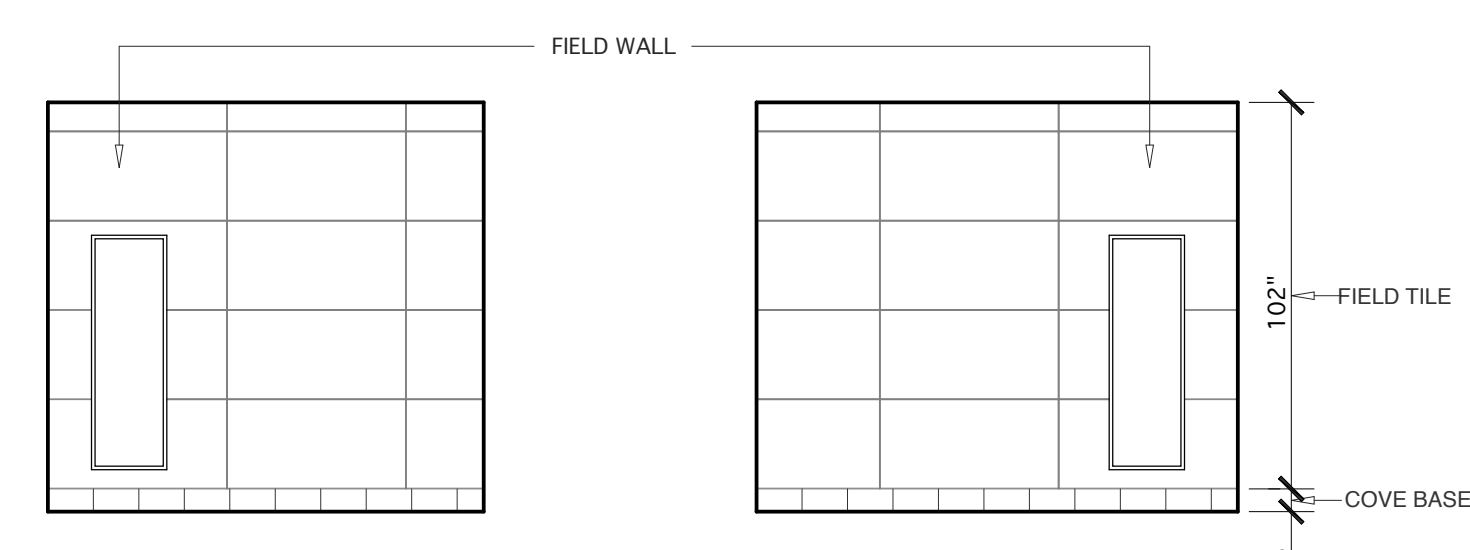
5 ELEV- LOBBY REAR WALL/ WOMEN & MEN FIXTURE WALL
A1.8 SCALE: 1/4" = 1'-0"



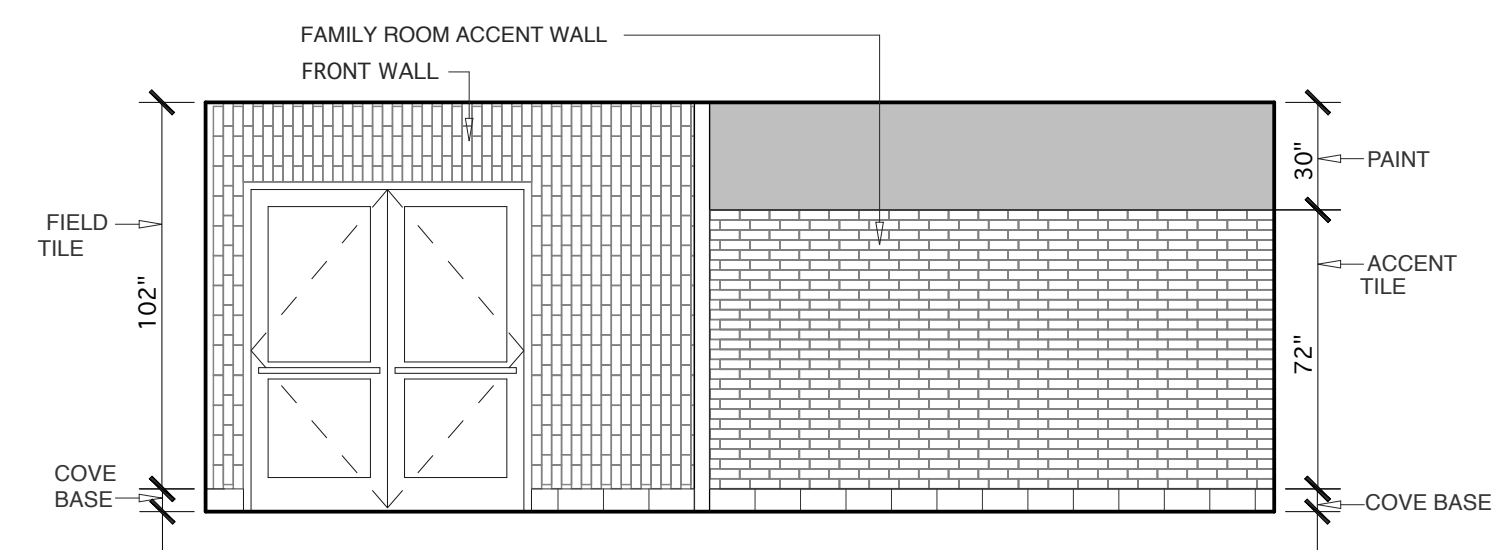
6 ELEV- FAMILY/ MEN- WINDOW WALL
A1.8 SCALE: 1/4" = 1'-0"



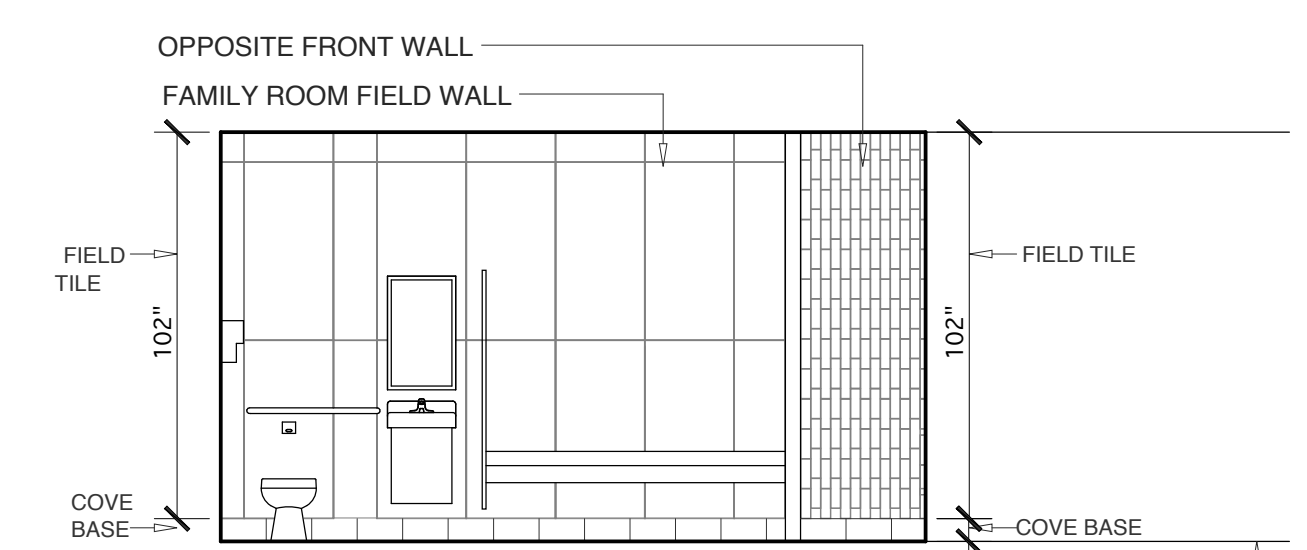
7 ELEV. WOMEN- WINDOW WALL
A1.8 SCALE: 1/4" = 1'-0"



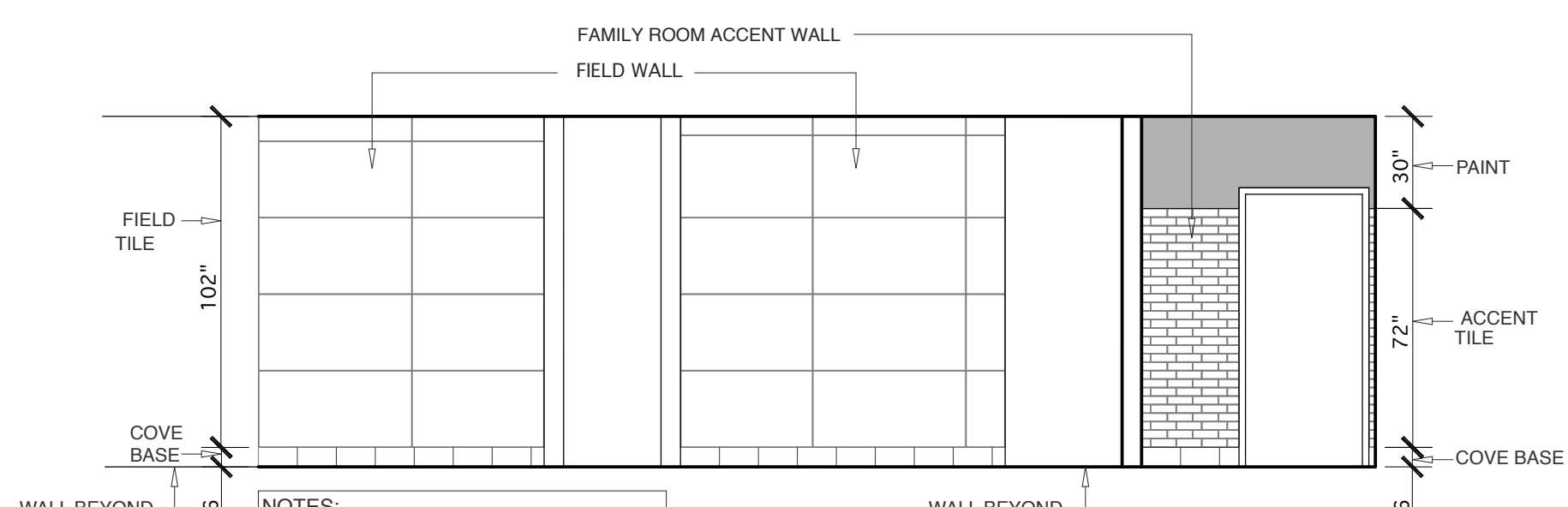
8 ELEV- MIRROR WALL/ SIMILAR (WOMEN & MEN)
A1.8 SCALE: 1/4" = 1'-0"



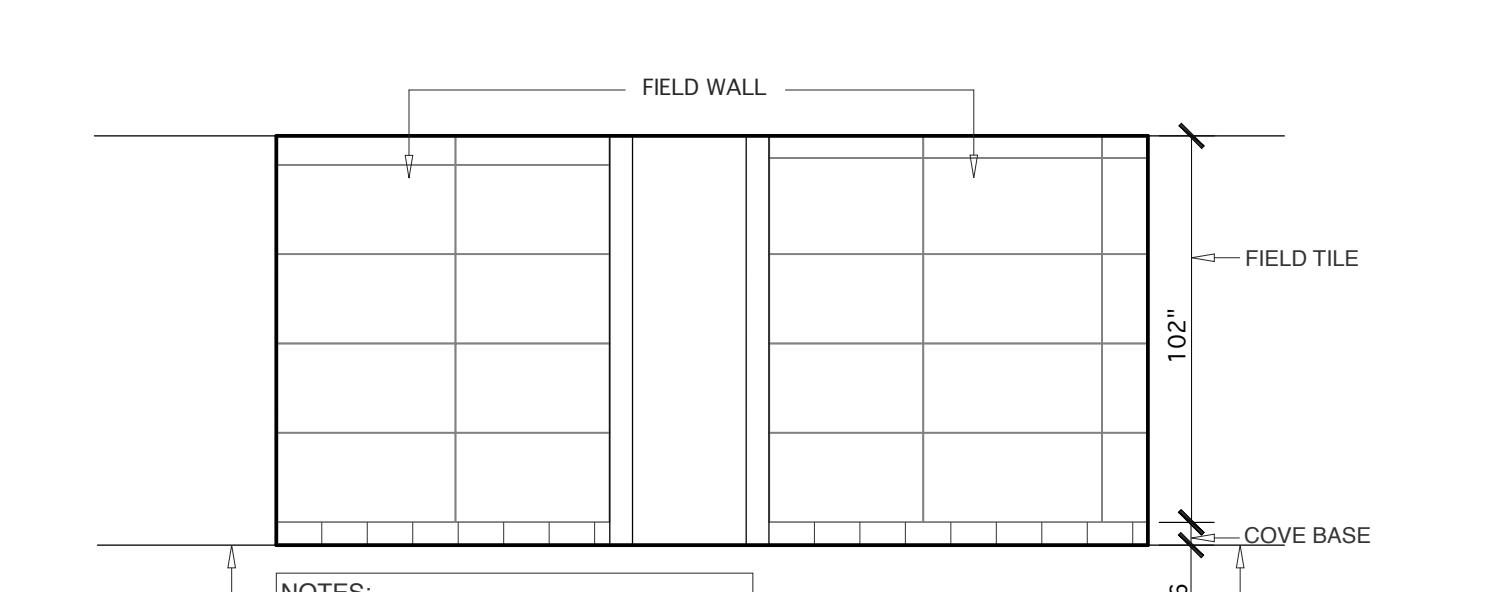
9 ELEV- LOBBY FRONT WALL/ FAMILY WALL
A1.8 SCALE: 1/4" = 1'-0"



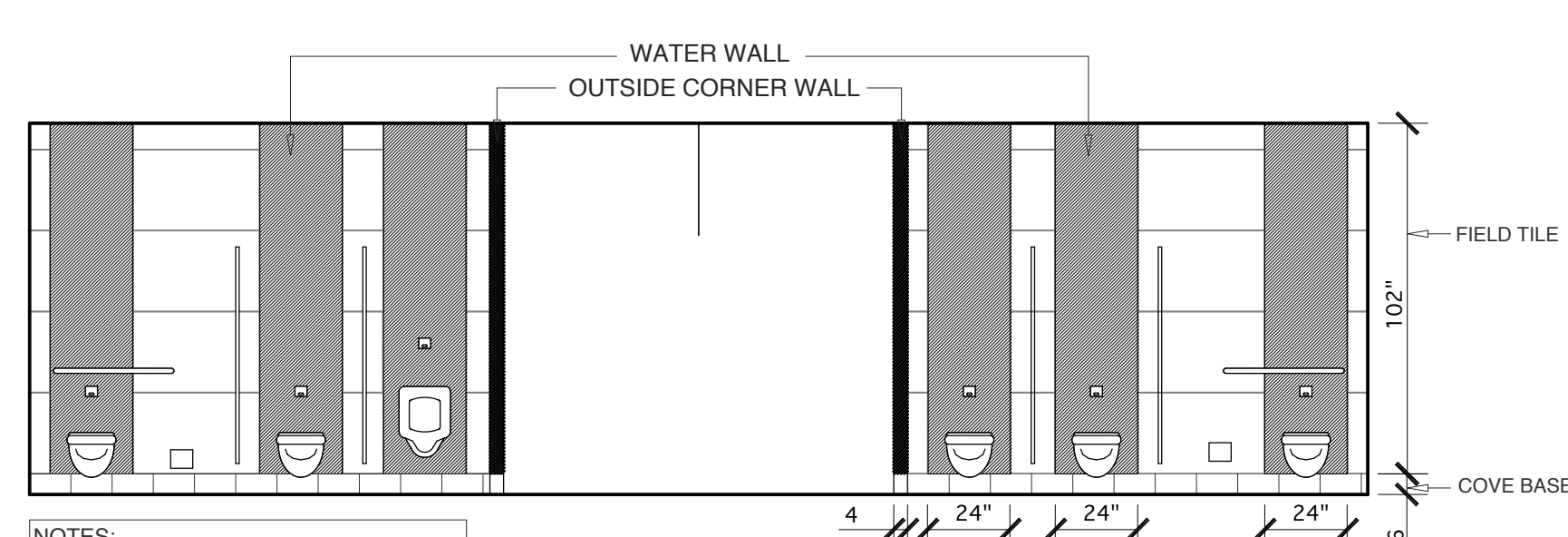
10 ELEV- FAMILY WATER WALL/ LOBBY WALL
A1.8 SCALE: 1/4" = 1'-0"



11 ELEV- FAMILY DOOR WALL/ MEN WALL
A1.8 SCALE: 1/4" = 1'-0"



12 ELEV- WOMEN WALL
A1.8 SCALE: 1/4" = 1'-0"



13 ELEV- MEN & WOMEN- WATER WALL
A1.8 SCALE: 1/4" = 1'-0"

STATE ID#: 17-17533-01A
WBS ELEMENT: 51213.031

PROJECT TITLE
**CARTERET COUNTY
REST AREA**
3409 ARENDELL STREET
MOREHEAD CITY, NORTH CAROLINA

PROJECT NO.
1604a
DRAWING TITLE
TILE WALL ELEV

SHEET 11 OF 19

A1.8

PLOT DATE 8/11/17
ISSUE DATE 8/10/17

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LEGEND- TILE:		
LOCATION	MANUFACTURER	PRODUCT LINE/NAME
PIPE CHASE WALL- WOMEN: COVE BASE:	DALTILE	PLAZA NOVA: 6"X 12" BROWN VISION PN96
FIELD TILE- 1:	DALTILE	JEWEL TIDE: 5/8" SUNSET PATH JT08- RANDOM MOSAIC (MESH-MOUNTED ON A 12"X 12" SHEET)
FIELD TILE- 2:	DALTILE	JEWEL TIDE: 5/8" SPARKLING SAND JT01- RANDOM MOSAIC (MESH-MOUNTED ON A 12"X 12" SHEET)
ACCENT- 1:	AMERICAN OLEAN	UNGLAZED CERAMIC MOSAICS: 1" ANTIQUE ROSE A11- ROUNDED CORNER BRICKWORK
ACCENT- 2:	AMERICAN OLEAN	UNGLAZED CERAMIC MOSAICS: 1" BIMIJI BLUE SPECKLED A85- ROUNDED CORNER BRICKWORK
ACCENT- 3:	AMERICAN OLEAN	UNGLAZED CERAMIC MOSAICS: 1" ICE WHITE A25- ROUNDED CORNER BRICKWORK

1
A1.9 LEGEND- PIPE CHASE WALL- WOMEN

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

LEGEND- TILE:		
LOCATION	MANUFACTURER	PRODUCT LINE/NAME
_DISPLAY CASE-2 WALL: COVE BASE:	DALTILE	PLAZA NOVA: 6"X 12" BROWN VISION PN96
WAVE WALL FIELD TILE:	DALTILE	MODERN DIMENSIONS: 4-1/4"X 12-3/4" WATERFALL
ACCENT:	DALTILE	UPTOWN GLASS; (PEARL METRO & EXOTIC): 1"X 1" PEARL BLUE UP15- MESH-MOUNTED ON A 12"X 12" SHEET
DISPLAY CASE-1 WALL: COVE BASE:	DALTILE	PLAZA NOVA: 6"X 12" BROWN VISION PN96
FIELD TILE:	DALTILE	GLASS HORIZONS: 2-1/2"X 7-3/4" SKY BLUE GH03

3
A1.9 LEGEND- LOBBY- LOOKING TOWARD WOMEN

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

LEGEND- TILE:		
LOCATION	MANUFACTURER	PRODUCT LINE/NAME
FIELD WALL: COVE BASE:	DALTILE	PLAZA NOVA: 6"X 12" BROWN VISION PN96
FIELD TILE:	DALTILE	FORMULA: 24"X 48" THEOREM IVORY FM93- POLISHED
FAMILY ROOM ACCENT WALL: COVE BASE:	DALTILE	PLAZA NOVA: 6"X 12" BROWN VISION PN96
ACCENT TILE:	DALTILE	COLORWAVE: 3"X 6" ICE WHITE CW01

6
A1.9 LEGEND- FAMILY/ MEN- WINDOW WALL

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

LEGEND- TILE:		
LOCATION	MANUFACTURER	PRODUCT LINE/NAME
FRONT WALL: COVE BASE:	DALTILE	PLAZA NOVA: 6"X 12" BROWN VISION PN96
FIELD TILE:	DALTILE	GLASS HORIZONS: 2-1/2"X 7-3/4" SKY BLUE GH03
FAMILY ROOM ACCENT WALL: COVE BASE:	DALTILE	PLAZA NOVA: 6"X 12" BROWN VISION PN96
ACCENT TILE:	DALTILE	COLORWAVE: 3"X 6" ICE WHITE CW01

9
A1.9 LEGEND- LOBBY FRONT WALL/FAMILY WALL

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

LEGEND- TILE:		
LOCATION	MANUFACTURER	PRODUCT LINE/NAME
FIELD WALL: COVE BASE:	DALTILE	PLAZA NOVA: 6"X 12" BROWN VISION PN96
FIELD TILE:	DALTILE	FORMULA: 24"X 48" THEOREM IVORY FM93- POLISHED

12
A1.9 LEGEND WOMEN WALL

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

LEGEND- GROUT:		
LOCATION	MANUFACTURER	PRODUCT LINE/NAME
WALL:	CUSTOM BUILDING PRODUCTS	# 10 ANTIQUE WHITE
COVE BASE:	CUSTOM BUILDING PRODUCTS	# 92 ADMIRAL BLUE
COVE BASE CORNER:	CUSTOM BUILDING PRODUCTS	# 92 ADMIRAL BLUE

15
A1.9 LEGEND- GROUT

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

LEGEND- TILE:		
LOCATION	MANUFACTURER	PRODUCT LINE/NAME
PIPE CHASE WALL-MEN: COVE BASE:	DALTILE	PLAZA NOVA: 6"X 12" BROWN VISION PN96
FIELD TILE- 1:	DALTILE	JEWEL TIDE: 5/8" SUNSET PATH JT08- RANDOM MOSAIC (MESH-MOUNTED ON A 12"X 12" SHEET)
FIELD TILE- 2:	DALTILE	JEWEL TIDE: 5/8" SPARKLING SAND JT01- RANDOM MOSAIC (MESH-MOUNTED ON A 12"X 12" SHEET)
ACCENT- 1:	AMERICAN OLEAN	UNGLAZED CERAMIC MOSAICS: 1" PEACOCK BLUE A08- ROUNDED CORNER BRICKWORK
ACCENT- 2:	AMERICAN OLEAN	UNGLAZED CERAMIC MOSAICS: 1" BIMIJI BLUE SPECKLED A85- ROUNDED CORNER BRICKWORK
ACCENT- 3:	AMERICAN OLEAN	UNGLAZED CERAMIC MOSAICS: 1" ICE WHITE A25- ROUNDED CORNER BRICKWORK

2
A1.9 LEGEND- PIPE CHASE WALL- MEN

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

LEGEND- TILE:		
LOCATION	MANUFACTURER	PRODUCT LINE/NAME
WATER FOUNTAIN WALL: COVE BASE:	DALTILE	PLAZA NOVA: 6"X 12" BROWN VISION PN96
FIELD TILE:	DALTILE	RIVER MARBLE: 12"X 36" SANDY FLATS RM91- POLISHED
ACCENT-1:	DALTILE	FASHION ACCENTS: 12"X 12" BROWN PEBBLE F018- DECORATIVE ACCENT
ACCENT-2:	DALTILE	REFLECTIONS IN GLASS TILE: 1"X 6" BLUE LAGOON- GLOSSY/ MATT FINISH- MESH-MOUNTED
FAMILY ROOM EXTERIOR WALL: COVE BASE:	DALTILE	PLAZA NOVA: 6"X 12" BROWN VISION PN96
FIELD TILE:	DALTILE	GLASS HORIZONS: 2-1/2"X 7-3/4" SKY BLUE GH03
DISPLAY CASE-1 WALL: COVE BASE:	DALTILE	PLAZA NOVA: 6"X 12" BROWN VISION PN96
FIELD TILE:	DALTILE	GLASS HORIZONS: 2-1/2"X 7-3/4" SKY BLUE GH03

4
A1.9 LEGEND- LOBBY- LOOKING TOWARD MEN

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

LEGEND- TILE:		
LOCATION	MANUFACTURER	PRODUCT LINE/NAME
FIELD WALL: COVE BASE:	DALTILE	PLAZA NOVA: 6"X 12" BROWN VISION PN96
FIELD TILE:	DALTILE	FORMULA: 24"X 48" THEOREM IVORY FM93- POLISHED

7
A1.9 LEGEND- WOMEN- WINDOW WALL

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

LEGEND- TILE:		
LOCATION	MANUFACTURER	PRODUCT LINE/NAME
FAMILY ROOM FIELD WALL: COVE BASE:	DALTILE	PLAZA NOVA: 6"X 12" BROWN VISION PN96
FIELD TILE:	DALTILE	FORMULA: 24"X 48" THEOREM IVORY FM93- POLISHED
OPPOSITE FRONT WALL: COVE BASE:	DALTILE	PLAZA NOVA: 6"X 12" BROWN VISION PN96
COVE BASE OUTCORNER:	DALTILE	PLAZA NOVA: 1"X 6" BROWN VISION PN96
FIELD TILE:	DALTILE	GLASS HORIZONS: 2-1/2"X 7-3/4" SKY BLUE GH03

10
A1.9 LEGEND- FAMILY WATER WALL/LOBBY WALL

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

LEGEND- TILE:		
LOCATION	MANUFACTURER	PRODUCT LINE/NAME
WATER WALL: COVE BASE:	DALTILE	PLAZA NOVA: 6"X 12" BROWN VISION PN96
FIELD TILE- 1:	STONEPEAK	PLANE: 60"X 120" TRUE WHITE USP12060094- POLISHED
FIELD WALL: COVE BASE:	DALTILE	PLAZA NOVA: 6"X 12" BROWN VISION PN96
FIELD TILE:	DALTILE	FORMULA: 24"X 48" THEOREM IVORY FM93- POLISHED
OUTSIDE CORNER WALL: COVE BASE:	DALTILE	PLAZA NOVA: 6"X 12" BROWN VISION PN96
ACCENT TILE:	STONEPEAK	PLANE: 60"X 120" TRUE WHITE USP12060094- POLISHED

13
A1.9 LEGEND- MEN & WOMEN- WATER WALL

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

LEGEND- TILE:		
LOCATION	MANUFACTURER	PRODUCT LINE/NAME
ACCENT WALL: COVE BASE:	DALTILE	PLAZA NOVA: 6"X 12" BROWN VISION PN96
ACCENT TILE:	STONEPEAK	PLANE: 60"X 120" TRUE WHITE USP12060094- POLISHED
FIELD WALL: COVE BASE:	DALTILE	PLAZA NOVA: 6"X 12" BROWN VISION PN96
FIELD TILE:	DALTILE	FORMULA: 24"X 48" THEOREM IVORY FM93- POLISHED
OUTSIDE CORNER WALL: COVE BASE:	DALTILE	PLAZA NOVA: 6"X 12" BROWN VISION PN96
ACCENT TILE:	STONEPEAK	PLANE: 60"X 120" TRUE WHITE USP12060094- POLISHED
REAR WALL: COVE BASE:	DALTILE	PLAZA NOVA: 6"X 12" BROWN VISION PN96
FIELD TILE:	DALTILE	GLASS HORIZONS: 2-1/2"X 7-3/4" SKY BLUE GH03

5
A1.9 LEGEND- LOBBY REAR WALL/ WOMEN & MEN FIXTURE WALL

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

LEGEND- TILE:		
LOCATION	MANUFACTURER	PRODUCT LINE/NAME
FIELD WALL: COVE BASE:	DALTILE	PLAZA NOVA: 6"X 12" BROWN VISION PN96
FIELD TILE:	DALTILE	FORMULA: 24"X 48" THEOREM IVORY FM93- POLISHED

8
A1.9 LEGEND- MIRROR WALL-SIMILAR (WOMEN & MEN)

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

LEGEND- TILE:		
LOCATION	MANUFACTURER	PRODUCT LINE/NAME
FIELD WALL: COVE BASE:	DALTILE	PLAZA NOVA: 6"X 12" BROWN VISION PN96
FIELD TILE:	DALTILE	FORMULA: 24"X 48" THEOREM IVORY FM93- POLISHED
FAMILY ROOM ACCENT WALL: COVE BASE:	DALTILE	PLAZA NOVA: 6"X 12" BROWN VISION PN96
ACCENT TILE:	DALTILE	COLORWAVE: 3"X 6" ICE WHITE CW01

11
A1.9 LEGEND- FAMILY DOOR WALL/MEN WALL

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

LEGEND- ACCESSORIES:		
LOCATION	MANUFACTURER	PRODUCT LINE/NAME
OUTSIDE CORNER WALL: EDGE- PROTECTION PROFILE:	SCHLUTER	RONDEC- STAINLESS STEEL
COVE BASE OUTER CORNER:	DALTILE	PLAZA NOVA: 1"X 6" BROWN VISION PN96

14
A1.9 LEGEND- OUTSIDE CORNER WALL

SCALE:

LEGEND- PAINT/ STAIN:		
LOCATION	MANUFACTURER	PRODUCT LINE/NAME
GYPSUM WALL: FAMILY ROOM	SHERWIN WILLIAMS	WATERSCAPE SW 6470
CEILING:	SHERWIN WILLIAMS	WATERSCAPE SW 6470
FRAME (H.M.): DISPLAY CASE- 2 / FAMILY: PIPE CHASE WALL:	SHERWIN WILLIAMS SHERWIN WILLIAMS	ROMAN COLUMN SW 7562- GLOSS FINISH DRESS BLUES SW 9176
DOOR (WOOD): DISPLAY CASE- 2 / FAMILY WALLS: PIPECHASE WALL	MINWAX MINWAX	WHITE WASH PICKLING NAVY BLUE

16
A1.9 LEGEND- PAINT/ STAIN

SCALE:

**WEEKS
TURNER
ARCHITECTURE**

WEEKS TURNER ARCHITECTURE, PA
3305-109 Durham Drive
Raleigh, North Carolina 27603
919.779.9797 fax: 919.779.0826
www.weeksturner.com



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Ginger S. Anderson
E9028345682C422
8/11/2017

STATE ID#: 17-17533-01A
WBS ELEMENT: 51213.031

PROJECT TITLE
**CARTERET COUNTY
REST AREA**
3409 ARENDELL STREET
MOREHEAD CITY, NORTH CAROLINA

PROJECT NO.
1604a

DRAWING TITLE
TILE LEGENDS

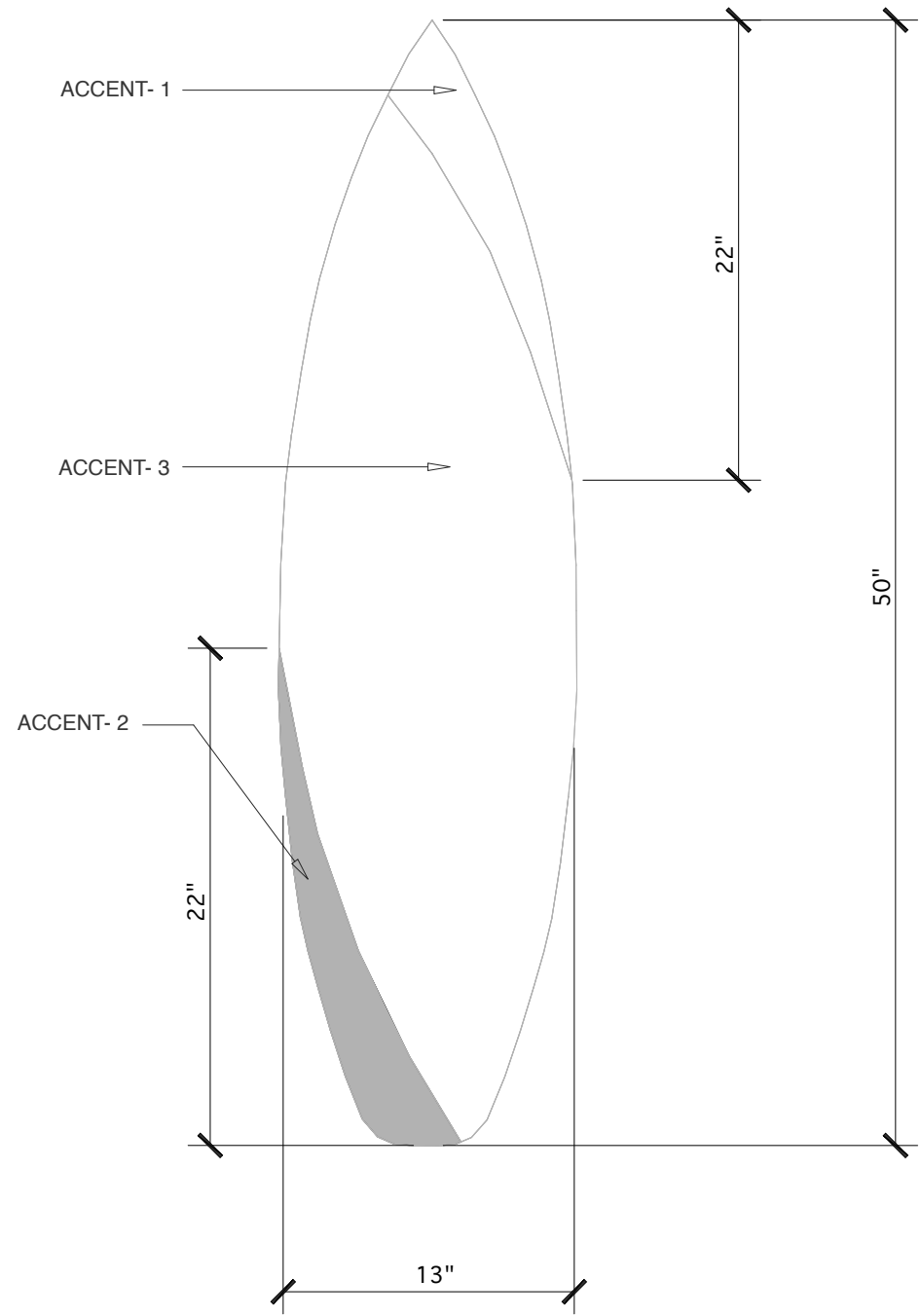
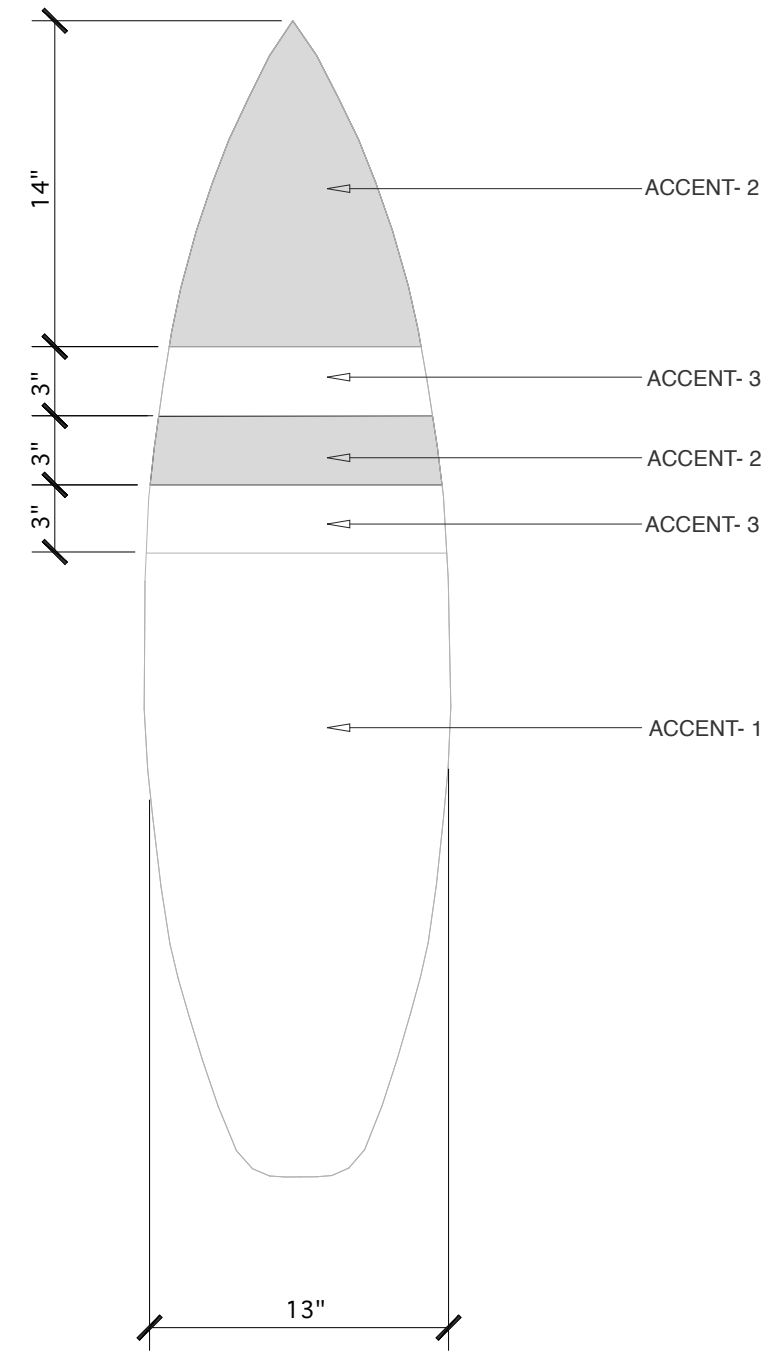
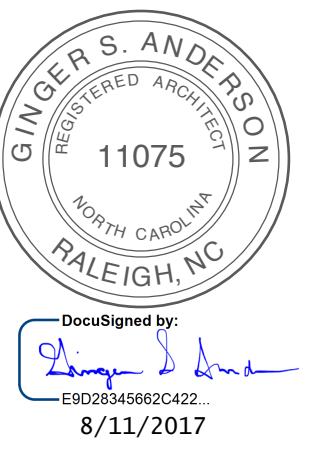
SHEET 12 OF 19

A1.9

PLOT DATE 8/11/17
ISSUE DATE 8/10/17

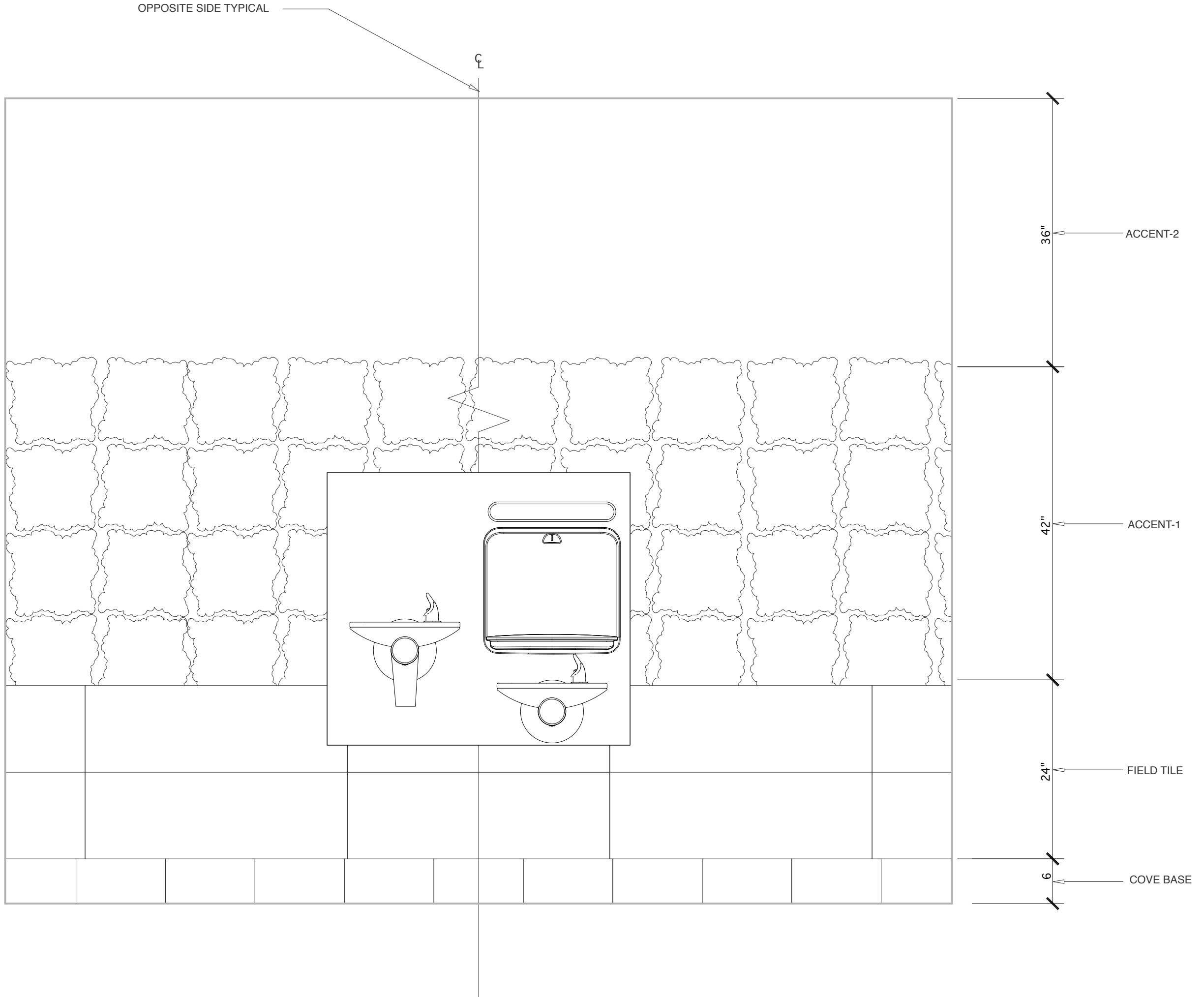
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NOTE:
REFER TO LEGEND 1/A1.9 & 2/A1.9 TO DETERMINE COLOR FOR SPECIFIC GENDER BATHROOM.

1
A1.10 DETAIL- PIPE CHASE WALL- WOMEN/ MEN
SCALE: 1 1/2" = 1'-0"



2
A1.10 DETAIL- WATER FOUNTAIN WALL
SCALE: 1" = 1'-0"

STATE ID#: 17-17533-01A
WBS ELEMENT: 51213.031

PROJECT TITLE
**CARTERET COUNTY
REST AREA**
3409 ARENDELL STREET
MOREHEAD CITY, NORTH CAROLINA

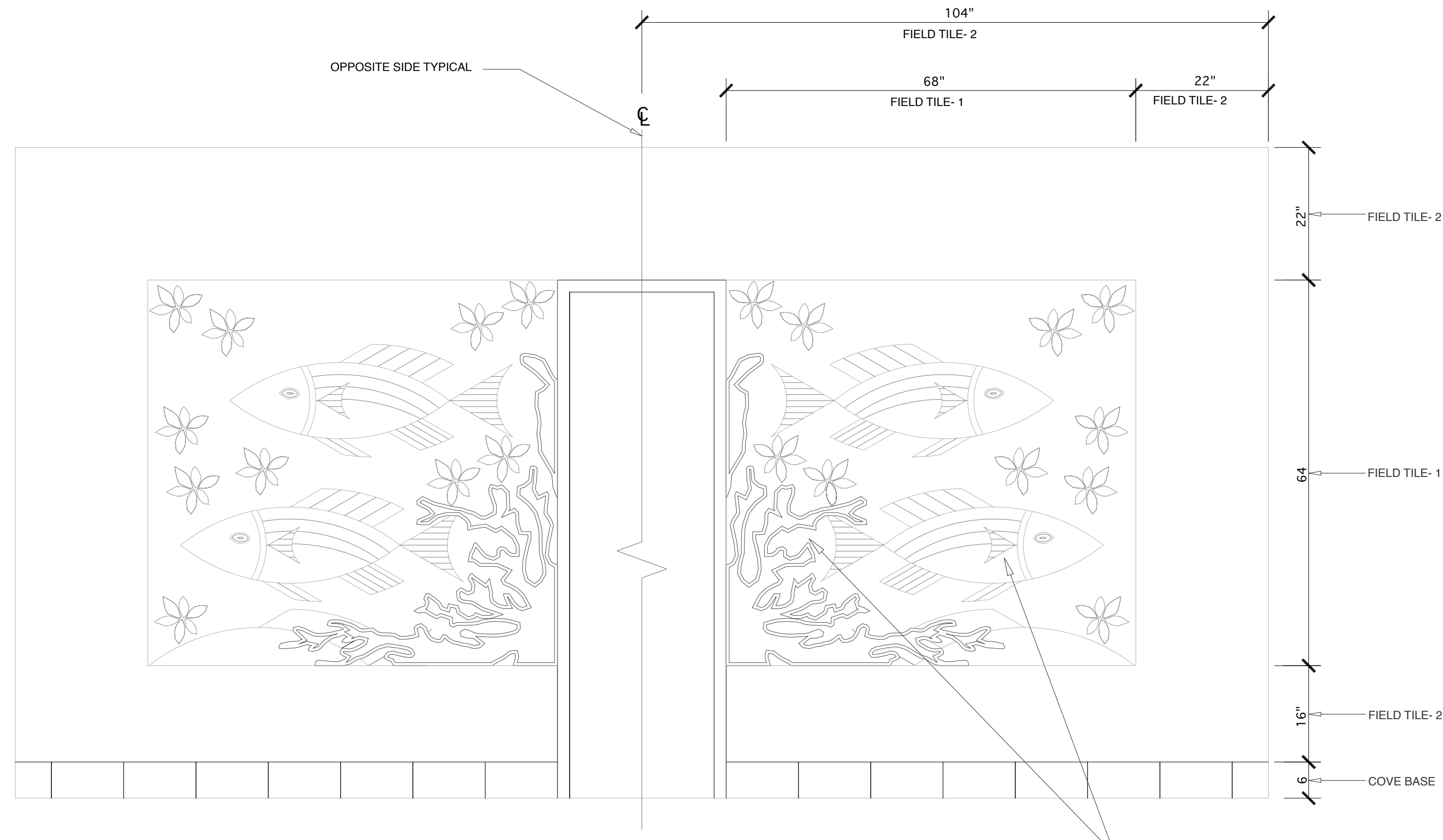
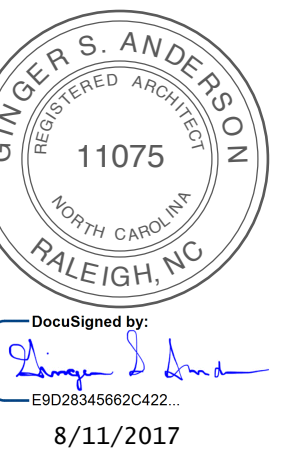
PROJECT NO.
1604a
DRAWING TITLE
TILE WALL DETAIL

SHEET 13 OF 19

A1.10

PLOT DATE 8/11/17
ISSUE DATE 8/10/17

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- NOTES:**
1. SEE GENERAL NOTES- WALLS 3/A1.7, NOTE 15.
 2. SEE GENERAL NOTES- WALLS 3/A1.7, NOTE 18.
 3. SEE LEGEND 2/A1.11, 3/A1.11.
 4. SEE DETAIL 4/A1.11.
 5. SEE ENLARGED PLAN 5/A1.11.

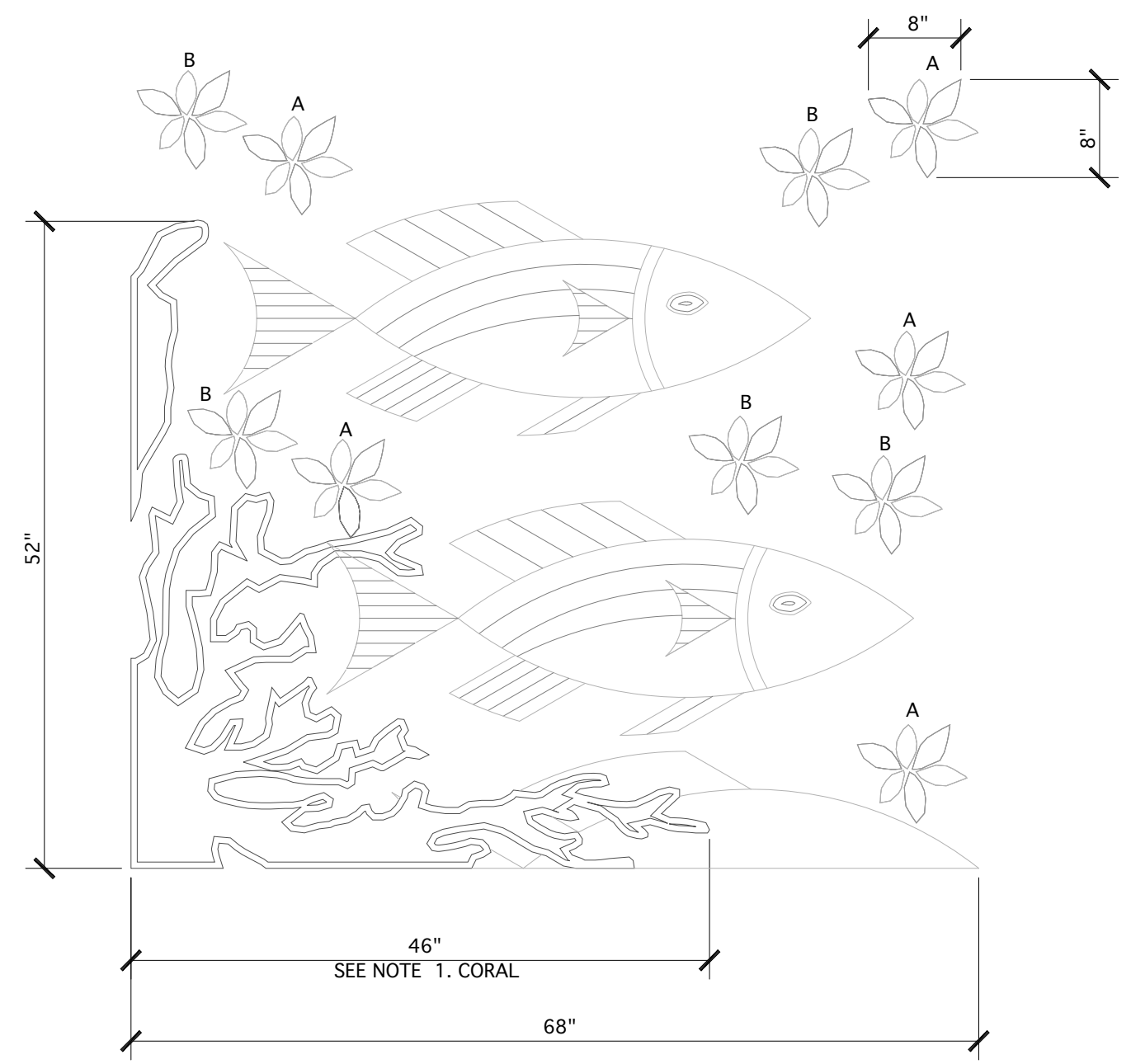
1 ELEV- ART WORK WALL ALTERNATE- 1
A1.11 SCALE: 3/4" = 1'-0"

LEGEND- TILE:		
LOCATION	MANUFACTURER	PRODUCT LINE/NAME
PIPE CHASE WALL- WOMEN/ MEN:		
COVE BASE:	DALTILE	PLAZA NOVA: 6"X 12" BROWN VISION PN96.
FIELD TILE- 1:	DALTILE	JEWEL TIDE: 5/8" SUNSET PATH JT08- RANDOM MOSAIC (MESH-MOUNTED ON A 12"X 12" SHEET).
FIELD TILE- 2:	DALTILE	JEWEL TIDE: 5/8" SPARKLING SAND JT01- RANDOM MOSAIC (MESH-MOUNTED ON A 12"X 12" SHEET).
ACCENT- 1:		
FISH:	REFLECTIONS IN GLASS TILE	
1. UPPER BODY (MOSAIC: GLOSSY):		COBALT BLUE, ULTIMATE BLUE, COBALT BLUE .
2. LOWER BODY (MOSAIC: MATT & GLOSSY):		BLUE LAGOON.
3. HEAD (MOSAIC: MATT & GLOSSY):		TURQUOISE GEM.
4. EYE: (MOSAIC: MATT):		COBALT BLUE, GLACIER WHITE, CODE RED.
5. COLLAR AT THE PECTORAL FIN (MOSAIC: MATT):		GLACIER WHITE.
6. PECTORAL FIN (1"X 6": MATT):		CODE RED.
7. DORSAL FIN (1"X 6": MATT):		COBALT BLUE, ULTIMATE BLUE, BLUE LAGOON, GLACIER WHITE, TURQUOISE GEM.
8. CAUDAL FIN (1"X 6": MATT):		TURQUOISE GEM, GLACIER WHITE, BLUE LAGOON, ULTIMATE BLUE, COBALT BLUE. SEE 5/A1.11 NOTE 1. CAUDAL FIN.
9. PELVIC FIN (1"X 6": MATT & GLOSSY):		GLACIER WHITE.
10. ANAL FIN (1"X 6": MATT & GLOSSY):		GLACIER WHITE.
ACCENT- 2:		
CORAL (MOSAIC: MATT & GLOSSY):	REFLECTIONS IN GLASS TILE	FLORIDA ORANGE. SEE 4/A1.11 NOTE 1. CORAL.
ACCENT- 3:		
SEAWEED:	REFLECTIONS IN GLASS TILE	NEON GREEN (MOSAIC: GLOSSY).
A. GOLF COURSE(MOSAIC: MATT):	REFLECTIONS IN GLASS TILE	NEON GREEN (MOSAIC: matt).
B. GOLF COURSE(MOSAIC: GLOSSY):	REFLECTIONS IN GLASS TILE	NEON GREEN (MOSAIC: matt).
ACCENT- 4:		
FISH SHADOW (MOSAIC: MATT & GLOSSY):	REFLECTIONS IN GLASS TILE	TWILLIGHT BLUE.

2 LEGEND- TILE- ART WORK WALL ALTERNATE- 1
A1.11 SCALE: 1/4" = 1'-0"

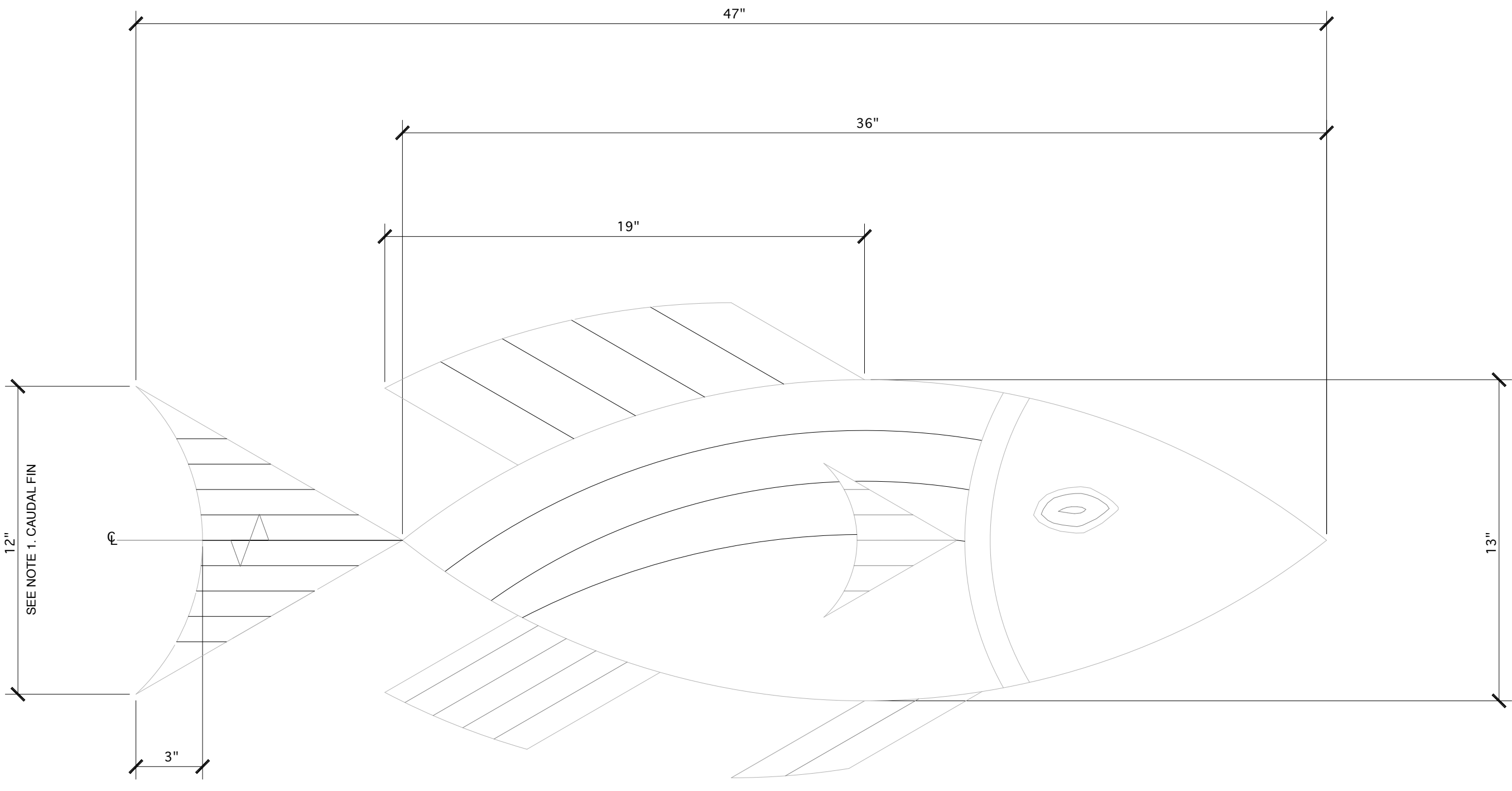
LEGEND- PAINT/ STAIN:		
LOCATION	MANUFACTURER	PRODUCT LINE/NAME
FRAME (H.M.): PIPE CHASE WALL:	SHERWIN WILLIAMS	POSITIVE RED SW 6871
DOOR (WOOD): PIPECHASE WALL	MINIWAX	CORRAL

3 LEGEND- PAINT/ STAIN- ART WORK WALL ALTERNATE- 1
A1.11 SCALE: 1/4" = 1'-0"



NOTE:
1. CORAL: THE OUTER TILE WILL BE BORDERED WITH THE MATT FINISH AND THE INNER TILE WILL BE THE GLOSSY FINISH.

4 DETAIL- ART WORK WALL ALTERNATE- 1
A1.11 SCALE: 1" = 1'-0"



NOTE:
1. CAUDAL FIN: OPPOSITE SIDE TYPICAL.

5 ENLARGED PLAN- ART WORK WALL ALTERNATE- 1
A1.11 SCALE: 3" = 1'-0"

STATE ID#: 17-17533-01A
WBS ELEMENT: 51213.031

PROJECT TITLE
**CARTERET COUNTY
REST AREA**
3409 ARENDELL STREET
MOREHEAD CITY, NORTH CAROLINA

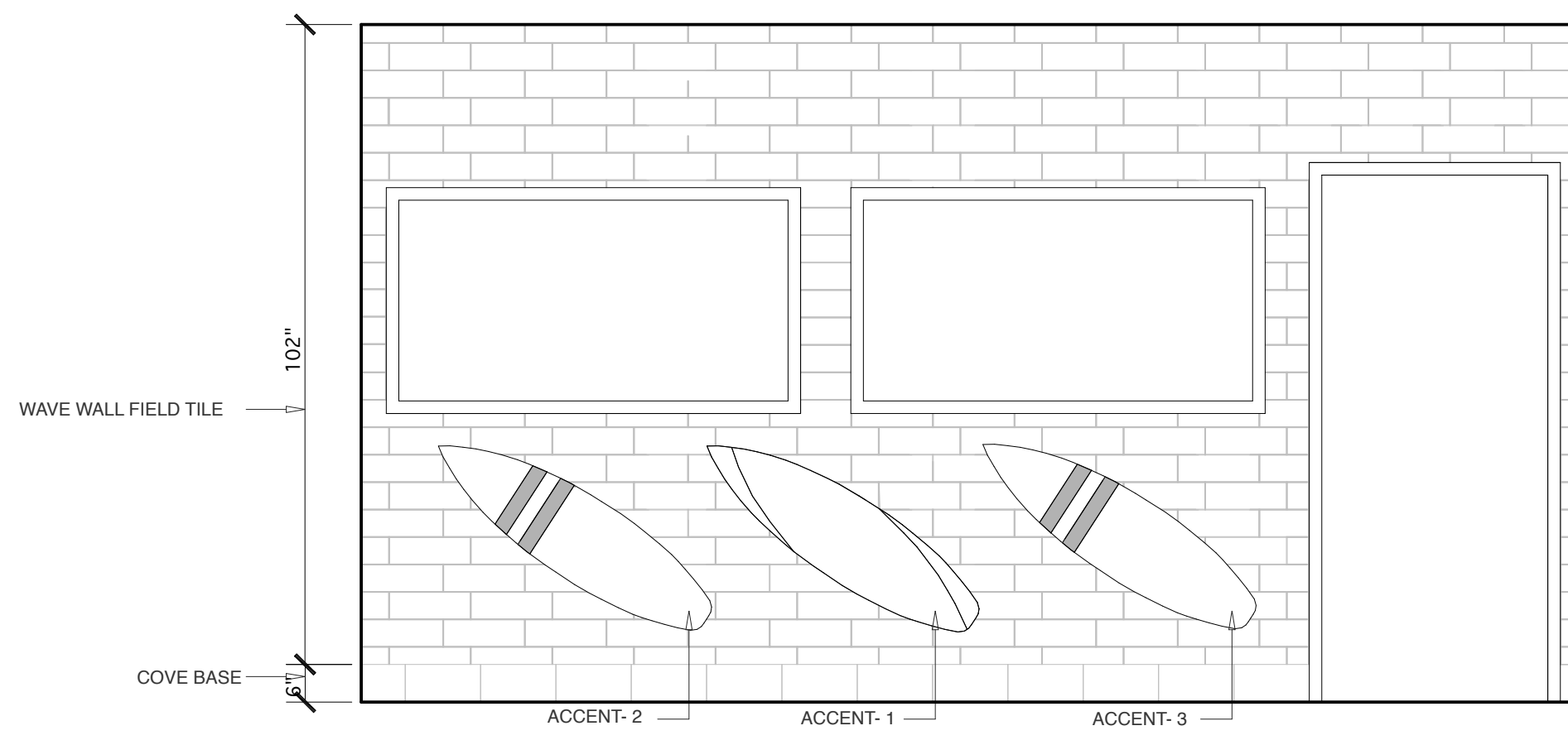
PROJECT NO.
1604a
DRAWING TITLE
TILE ART-ALT. 1

SHEET 14 OF 19

A1.11

PLOT DATE 8/11/17
ISSUE DATE 8/10/17

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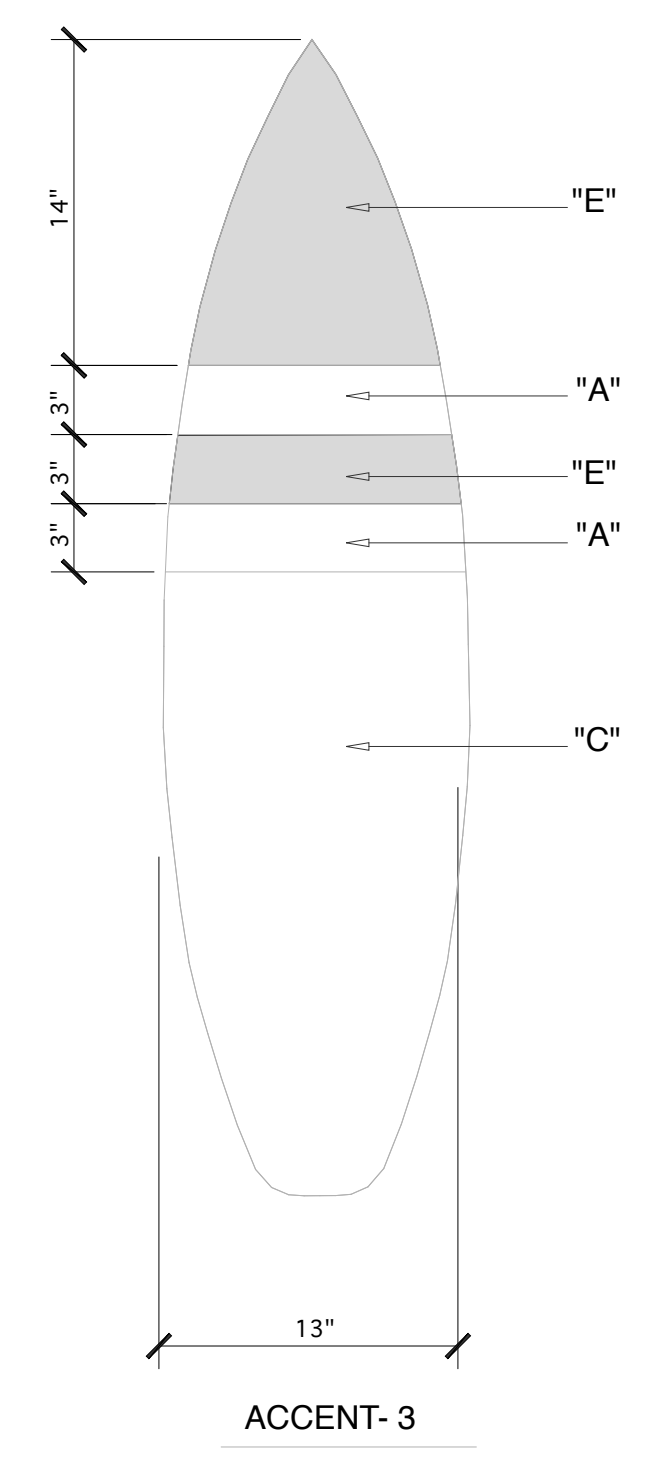
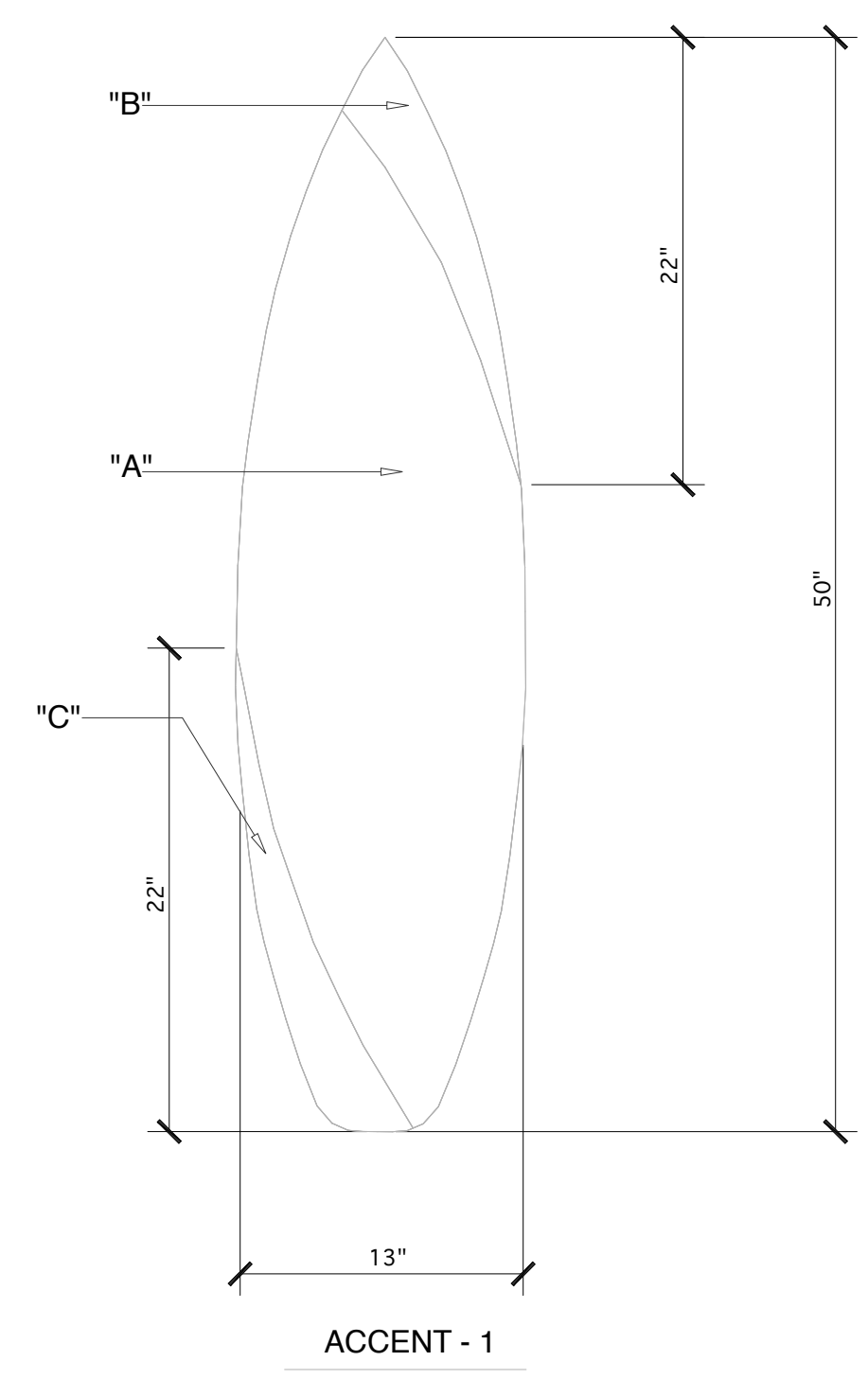
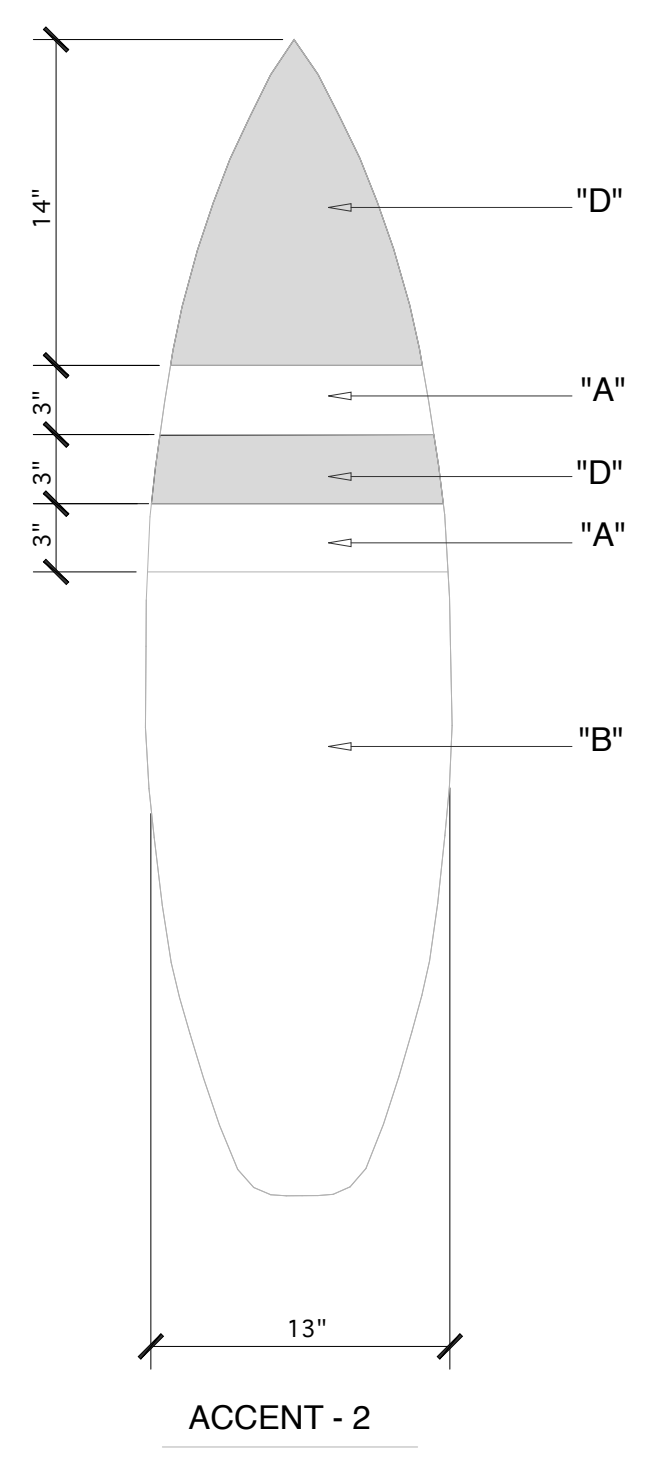


NOTES:
 1. SEE GENERAL NOTES- WALLS 3/A1.7, NOTE 16.
 2. SEE GENERAL NOTES- WALLS 3/A1.7, NOTE 18.
 3. SEE LEGEND 2/A1.12, 3/A1.11.
 4. SEE DETAIL 3/A1.12.

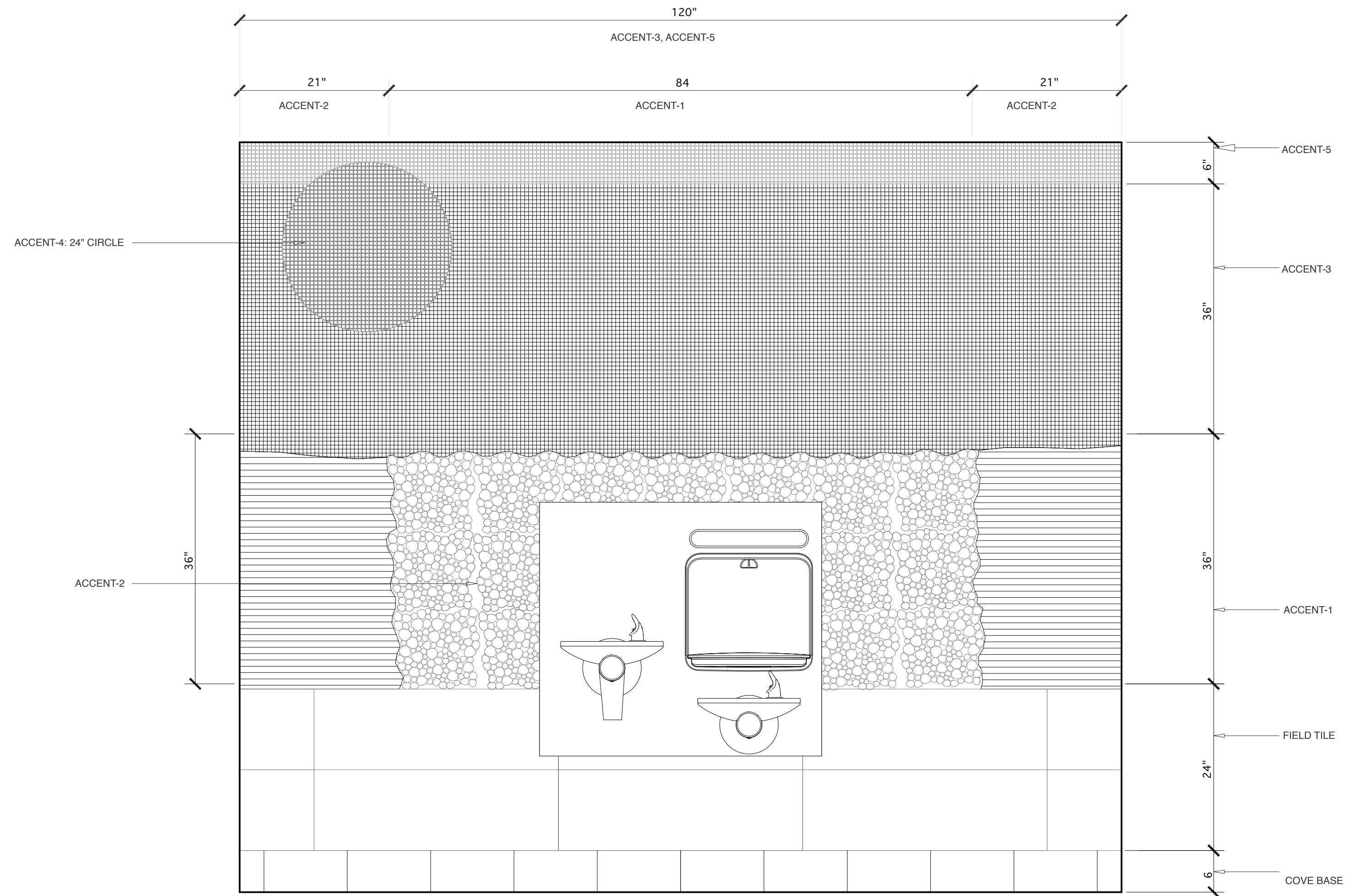
1 ELEV- ART WORK WALL ALTERNATE- 2
 A1.12 SCALE: 1/2" = 1'-0"

LOCATION	MANUFACTURER	PRODUCT LINE/NAME
DISPLAT CASE- 2 WALL		
COVE BASE:	DALTILE	PLAZA NOVA: 6"X 12" BROWN VISION PN96.
WAVE WALL FIELD TILE:	DALTILE	MODERN DIMENSIONS: 4-1/4"X 12-3/4" AQUA GLOW
ACCENT- 1:		
"A":	AMERICAN OLEAN	UNGLAZED CERAMIC MOSAICS: 1" ICE WHITE A25- ROUNDED CORNER BRICKWORK.
"B":	AMERICAN OLEAN	UNGLAZED CERAMIC MOSAICS: 1" ANTIQUE ROSE A11- ROUNDED CORNER BRICKWORK.
"C":	AMERICAN OLEAN	UNGLAZED CERAMIC MOSAICS: 1" PEACOCK BLUE A08- ROUNDED CORNER BRICKWORK.
ACCENT- 2:		
"A":	AMERICAN OLEAN	UNGLAZED CERAMIC MOSAICS: 1" ICE WHITE A25- ROUNDED CORNER BRICKWORK.
"B":	AMERICAN OLEAN	UNGLAZED CERAMIC MOSAICS: 1" ANTIQUE ROSE A11- ROUNDED CORNER BRICKWORK.
"D":	AMERICAN OLEAN	UNGLAZED CERAMIC MOSAICS: 1" ANTIQUE ROSE SPECKLED A11- ROUNDED CORNER BRICKWORK.
ACCENT- 3:		
"A":	AMERICAN OLEAN	UNGLAZED CERAMIC MOSAICS: 1" ICE WHITE A25- ROUNDED CORNER BRICKWORK.
"C":	AMERICAN OLEAN	UNGLAZED CERAMIC MOSAICS: 1" PEACOCK BLUE A08- ROUNDED CORNER BRICKWORK.
"E":	AMERICAN OLEAN	UNGLAZED CERAMIC MOSAICS: 1" BIMINI BLUE SPECKLED A85- ROUNDED CORNER BRICKWORK.

2 LEGEND- TILE- ART WORK WALL ALTERNATE- 2
 A1.12 SCALE: 1/4" = 1'-0"



3 DETAIL- ART WORK WALL ALTERNATE- 2
 A1.12 SCALE: 1" = 1'-0"



NOTES:
 1. SEE GENERAL NOTES- WALLS 3/A1.7, NOTE 17.
 2. SEE GENERAL NOTES- WALLS 3/A1.7, NOTE 18.
 3. SEE LEGEND 5/A1.12.

4 ELEV- ART WORK WALL ALTERNATE- 3
 A1.12 SCALE: 1" = 1'-0"

LOCATION	MANUFACTURER	PRODUCT LINE/NAME
WATER FOUNTAIN WALL:		
COVE BASE:	DALTILE	PLAZA NOVA: 6"X 12" BROWN VISION PN96.
FIELD TILE:	DALTILE	RIVER MARBLE: 12"X 36" SANDY FLATS RM91- POLISHED.
ACCENT- 1:	DALTILE	FASHION ACCENTS: 12"X 12" BROWN PEBBLE F018- DECORATIVE ACCENT.
ACCENT- 2:	DALTILE	REFLECTIONS IN GLASS TILE: 1"X 6" BLUE LAGOON- GLOSSY/ MATT FINISH- MESH-MOUNTED.
ACCENT- 3:	DALTILE	UPTOWN GLASS: (PEARL METRO & EXOTIC): 1"X 1" PEARL BLUE UP15- MESH-MOUNTED ON A 12"X 12" SHEET.
ACCENT- 4:	DALTILE	COLORWAVE: 1"X 1" ICE WHITE CW01-MESH-MOUNTED ON A 12"X 12" SHEET.
ACCENT- 5:	DALTILE	JEWEL TIDE: 5/8" SPARKLING SAND JT01- RANDOM MOSAIC; (MESH-MOUNTED ON A 12"X 12" SHEET).

5 LEGEND- TILE- ART WORK WALL ALTERNATE- 3
 A1.12 SCALE: 1/4" = 1'-0"

**WEEKS
TURNER
ARCHITECTURE**

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STATE ID#: 17-17533-01A
 WBS ELEMENT: 51213.031

PROJECT TITLE
**CARTERET COUNTY
REST AREA**
 3409 ARENDELL STREET
 MOREHEAD CITY, NORTH CAROLINA

PROJECT NO.
1604a
 DRAWING TITLE
TILE ART-ALT. 2&3

SHEET 15 OF 19

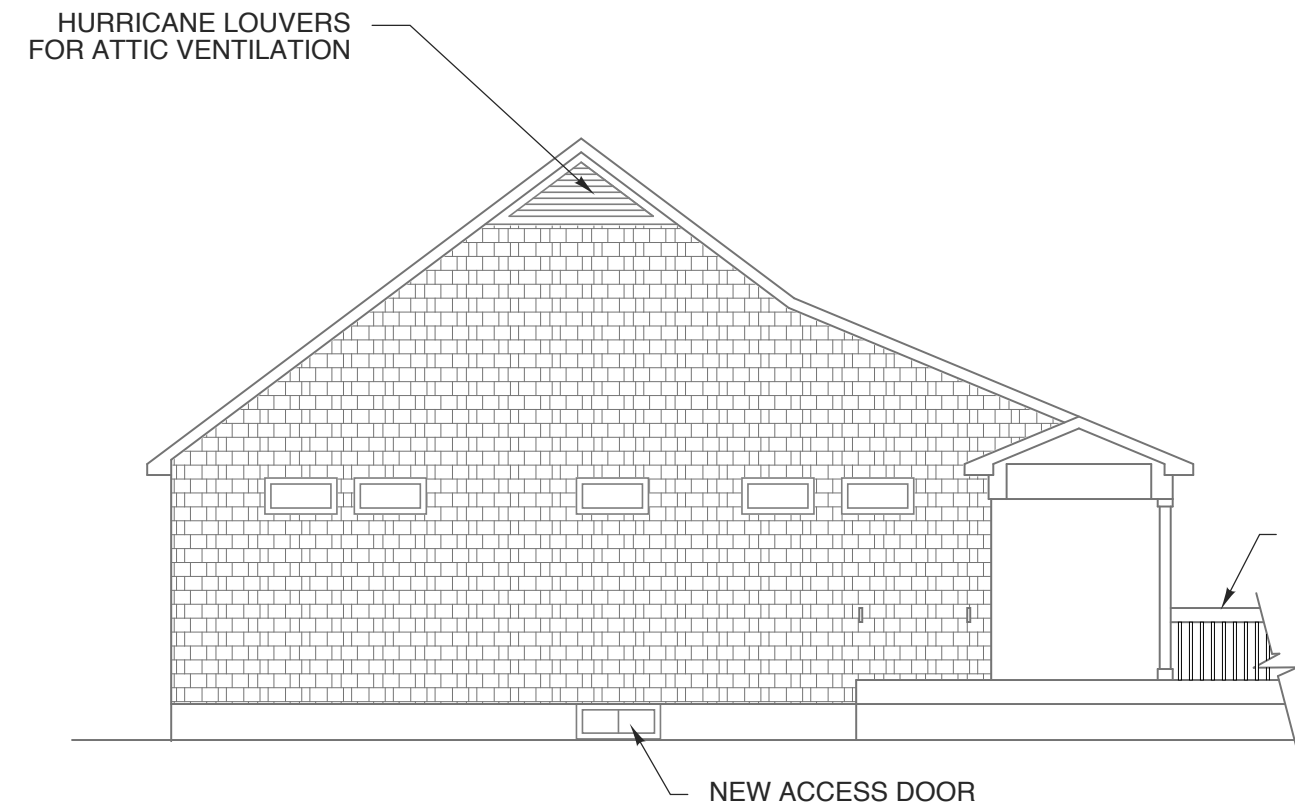
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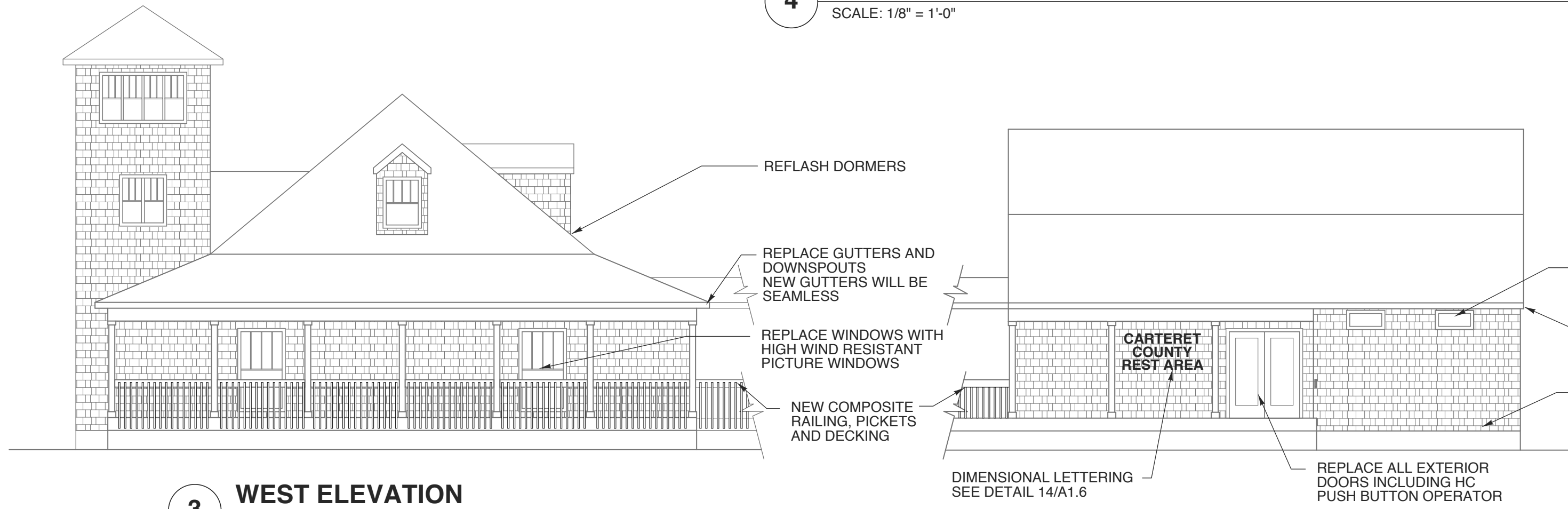


4 NORTH ELEVATION
SCALE: 1/8" = 1'-0"



REFLASH DORMERS
REPLACE GUTTERS AND DOWNSPOUTS
NEW GUTTERS WILL BE SEAMLESS
REPLACE WINDOWS WITH HIGH WIND RESISTANT PICTURE WINDOWS

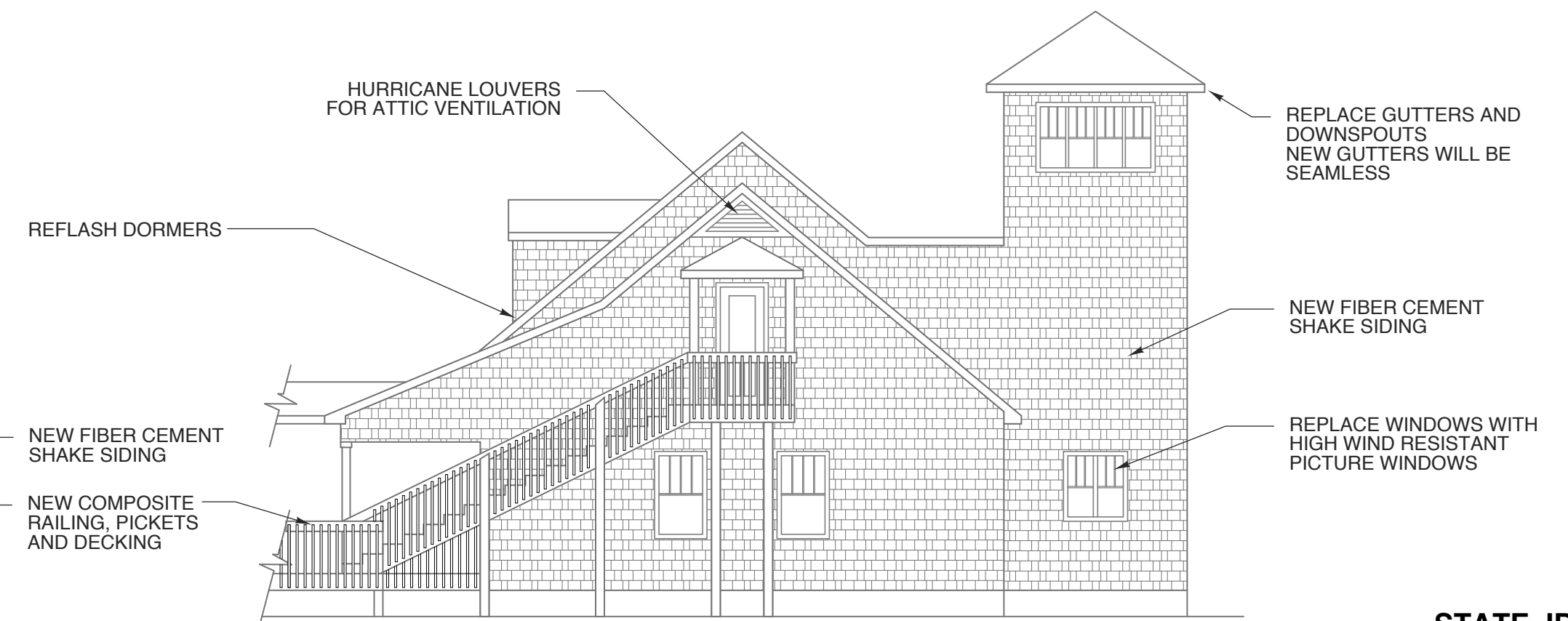
NOTE:
CONTRACTOR RESPONSIBLE FOR ANY DAMAGE TO SHINGLE ROOF



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



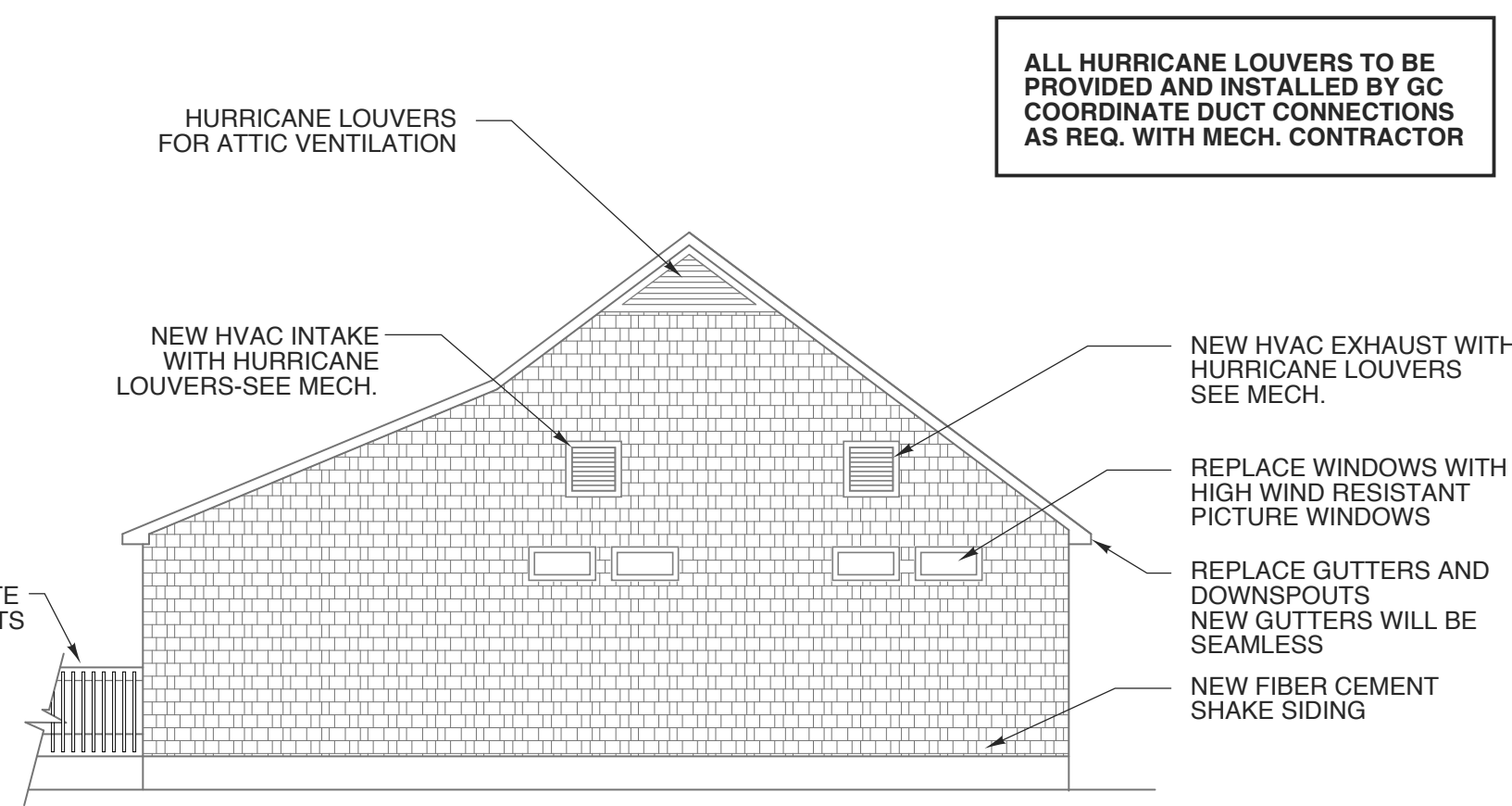
2 EAST ELEVATION
SCALE: 1/8" = 1'-0"



HURRICANE LOUVERS FOR ATTIC VENTILATION
REFLASH DORMERS
REPLACE GUTTERS AND DOWNSPOUTS
NEW GUTTERS WILL BE SEAMLESS
NEW FIBER CEMENT SHAKE SIDING
REPLACE WINDOWS WITH HIGH WIND RESISTANT PICTURE WINDOWS



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



ALL HURRICANE LOUVERS TO BE PROVIDED AND INSTALLED BY GC COORDINATE DUCT CONNECTIONS AS REQ. WITH MECH. CONTRACTOR

STATE ID#: 17-17533-01A
WBS ELEMENT: 51213.031

PROJECT TITLE
CARTERET COUNTY REST AREA
3409 ARENDELL STREET
MOREHEAD CITY, NORTH CAROLINA

PROJECT NO.
1604a
DRAWING TITLE
ELEVATIONS

SHEET 16 OF 19

A2

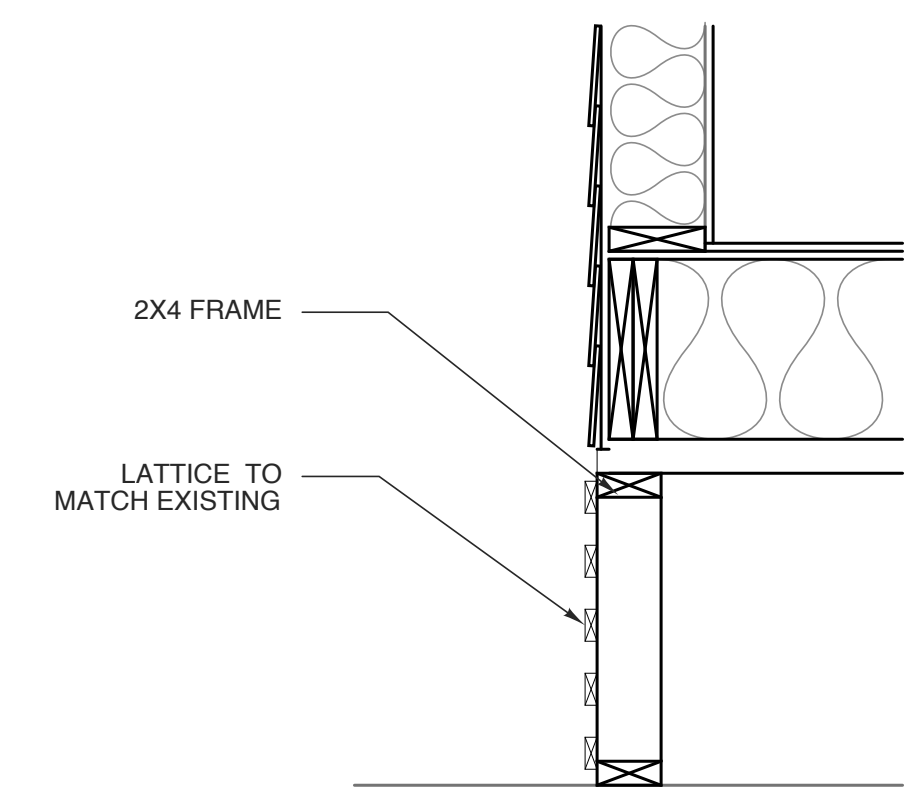
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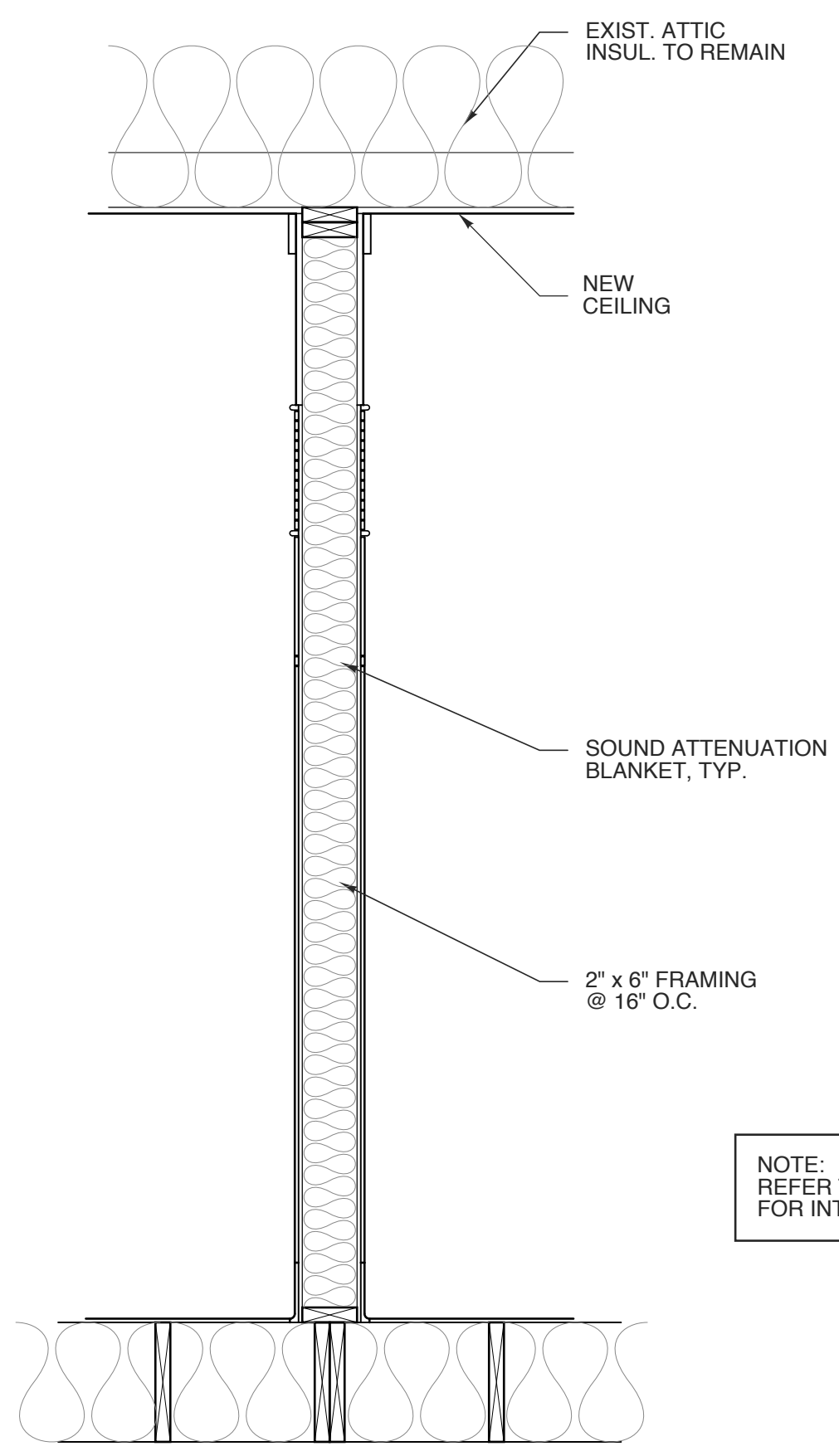
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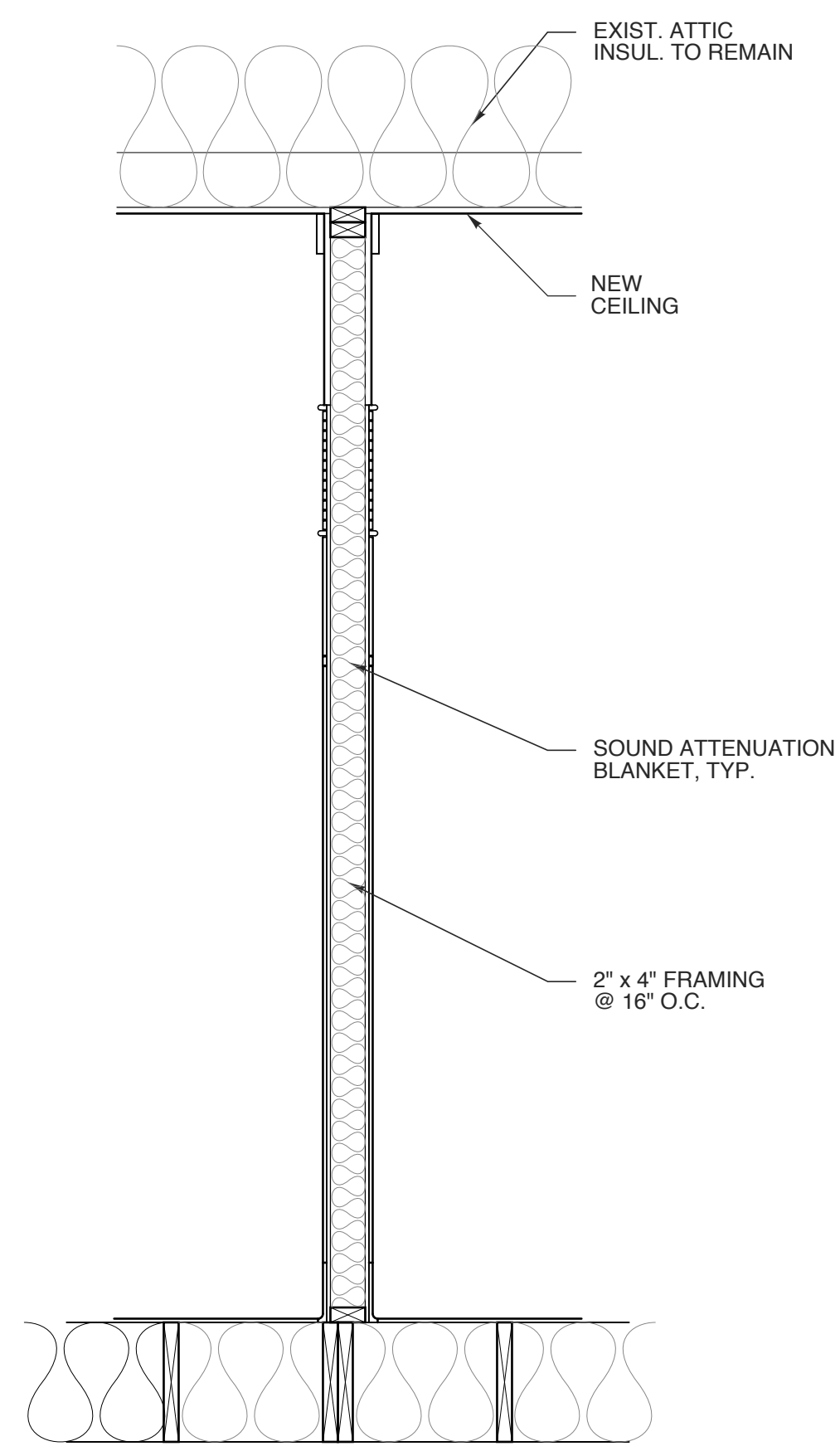


5 SECTION AT NEW ACCESS DOOR
SCALE: 1" = 1'-0"

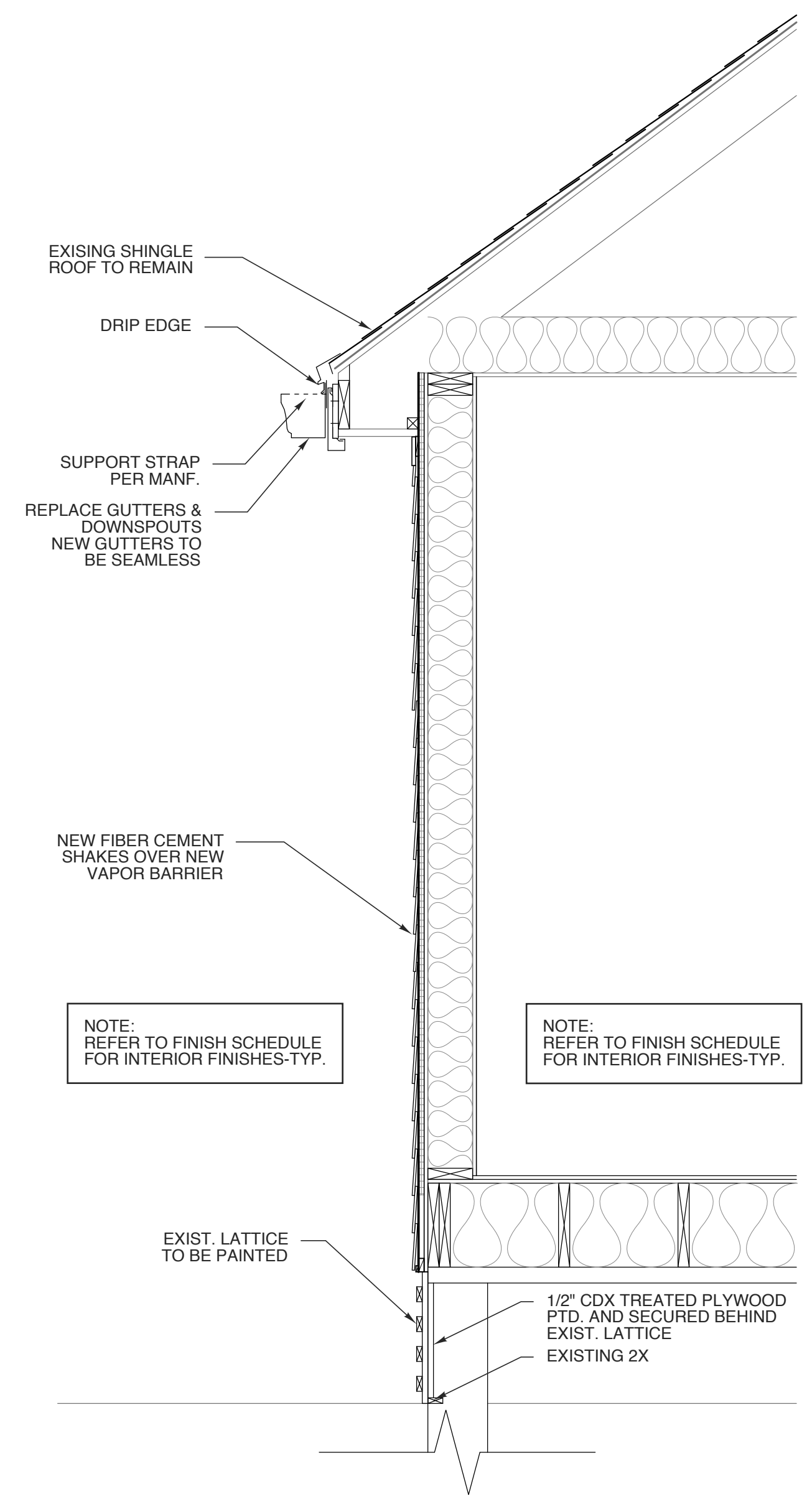


4 2X6 INT. WALL SECTION
SCALE: 3/4" = 1'-0"

NOTE: REFER TO FINISH SCHEDULE FOR INTERIOR FINISHES-TYP.



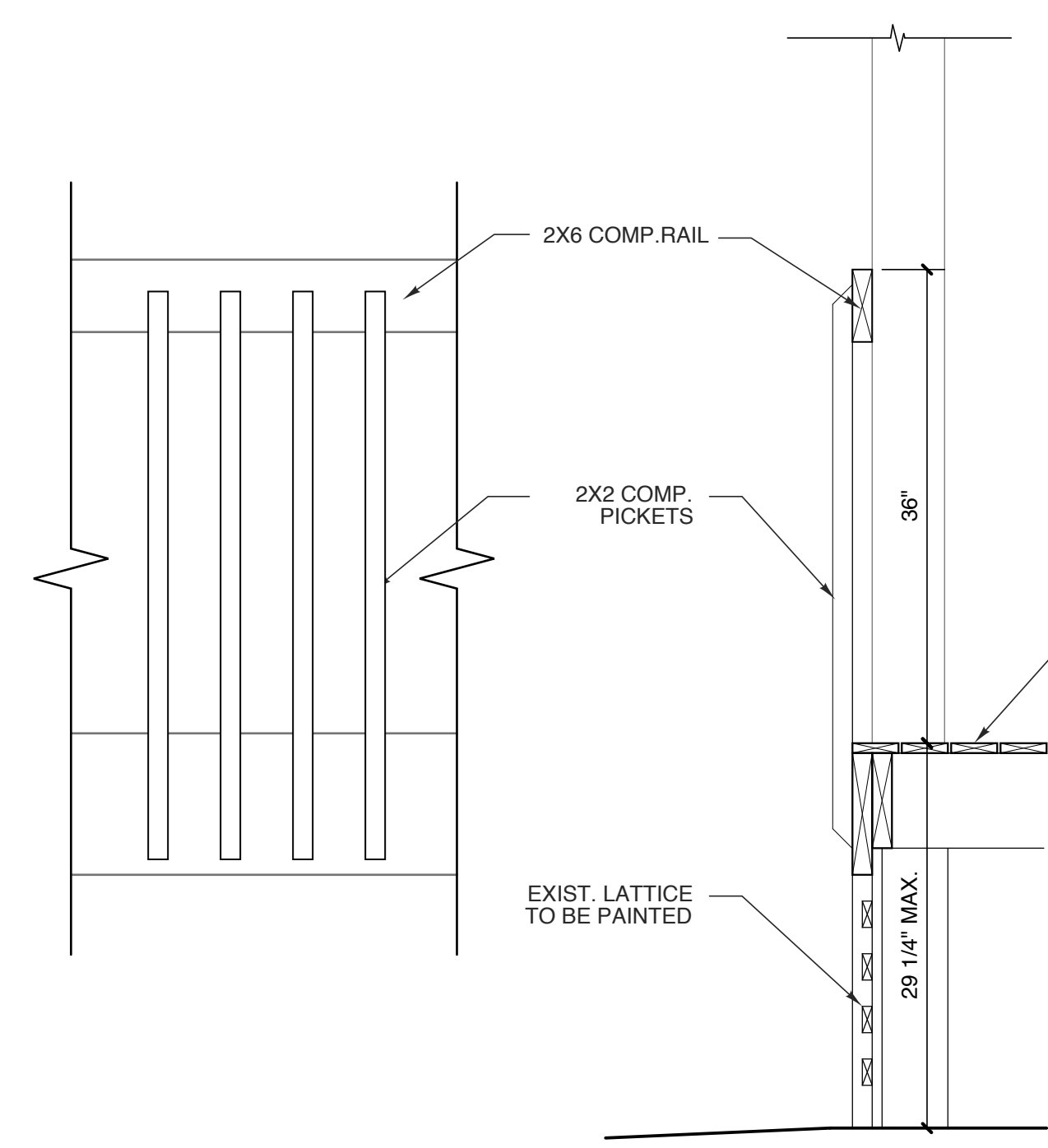
3 2X4 INT. WALL SECTION
SCALE: 3/4" = 1'-0"



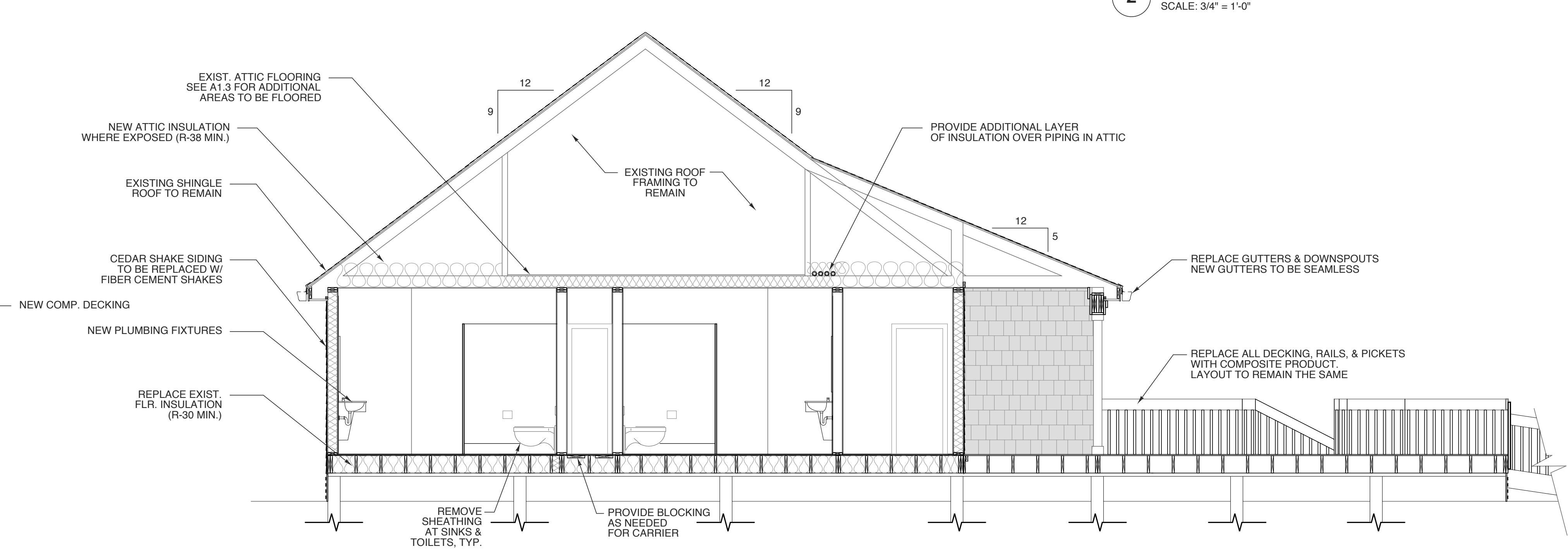
2 TYP. EXT. WALL SECTION
SCALE: 3/4" = 1'-0"

NOTE: REFER TO FINISH SCHEDULE FOR INTERIOR FINISHES-TYP.

NOTE: REFER TO FINISH SCHEDULE FOR INTERIOR FINISHES-TYP.



6 RAIL-SECT.
SCALE: 1" = 1'-0"



1 BUILDING SECTION THRU BATHROOMS
SCALE: 1/4" = 1'-0"

7 RAIL-ELEV.
SCALE: 1" = 1'-0"

STATE ID#: 17-17533-01A
WBS ELEMENT: 51213.031

PROJECT TITLE
**CARTERET COUNTY
REST AREA**
3409 ARENDELL STREET
MOREHEAD CITY, NORTH CAROLINA

PROJECT NO.
1604a
DRAWING TITLE
SECTIONS

SHEET 17 OF 19

A3

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WINDOW SCHEDULE							
MARK	W	SIZE	H	TYPE	MATERIAL	GLASS	REMARKS
A	3'-6"	x 6'-6"		1	ALUM CLAD WOOD	1" INSUL. LOW E GLASS	FIXED
B	3'-0"	x 4'-0"		2	ALUM CLAD WOOD	1" INSUL. LOW E GLASS	FIXED - BLACK OUT / TINTED GLASS-TO BE CONFIRMED
C	3'-0"	x 5'-0"		3	ALUM CLAD WOOD	1" INSUL. LOW E GLASS	FIXED
D	2'-0"	x 4'-0"		4	ALUM CLAD WOOD	1" INSUL. LOW E GLASS	FIXED
E	2'-0"	x 4'-0"		5	ALUM CLAD WOOD	1" INSUL. LOW E GLASS	FIXED - OBSCURE GLASS
F	3'-0"	x 1'-6"		6	ALUM CLAD WOOD	1" INSUL. LOW E GLASS	FIXED

NOTES:
 -SEE WINDOW TYPE ELEVATIONS AND DETAILS.
 -FIELD VERIFY ALL EXISTING OPENING SIZES. DIMENSIONS GIVEN FOR REFERENCE.
 -INCLUDE THERMAL BREAK PER MANUFACTURER'S STANDARDS WITH ALL FRAMES.
 -ALL WINDOWS TO MEET NCSBC SECTION 1609.1.2

DOOR SCHEDULE								
MARK	SIZE	DOOR			FRAME		HDWR SET NO.	REMARKS
		MAT'L	TYPE	DETAILS	TYPE	DETAILS		
1	6'-0" x 7'-0" x 1-3/4"	ALUM	A	A	---	---	2	WHITE TYP AT SF
2	6'-0" x 7'-0" x 1-3/4"	ALUM	A	A	---	---	2	---
3	3'-0" x 7'-0" x 1-3/4"	FIBERGLASS	E	B	---	---	5	---
4	6'-0" x 7'-0" x 1-3/4"	ALUM.	A	A	---	---	1	---
5	6'-0" x 7'-0" x 1-3/4"	ALUM.	A	A	---	---	2	---
6	3'-0" x 7'-0" x 1-3/4"	SC WOOD	B	B	---	---	3	CLOSER FOR 90 DEGREE STOP
7	3'-0" x 7'-0" x 1-3/4"	SC WOOD	C	B	---	---	5	---
8	3'-0" x 7'-0" x 1-3/4"	SC WOOD	D	B	---	---	3	---
9	2'-0" x 7'-0" x 1-3/4"	SC WOOD	D	B	---	---	4	---
10	2'-0" x 7'-0" x 1-3/4"	SC WOOD	D	B	---	---	4	---
11	9'-0" x 8'-0" x 1-3/4"	FIBERGLASS	F	---	---	---	---	MATCH EXISTING OPENING
12	3'-0" x 7'-0" x 1-3/4"	FIBERGLASS	E	B	---	---	5	---

NOTES:
 - COORDINATE KEYING OF HARDWARE WITH OWNER
 - DOOR HANDLES TO BE LEVER HANDLE
 - 1 MASTER KEY
 - ALL DOORS TO MEET NCSBC SECTION 1609.1.2

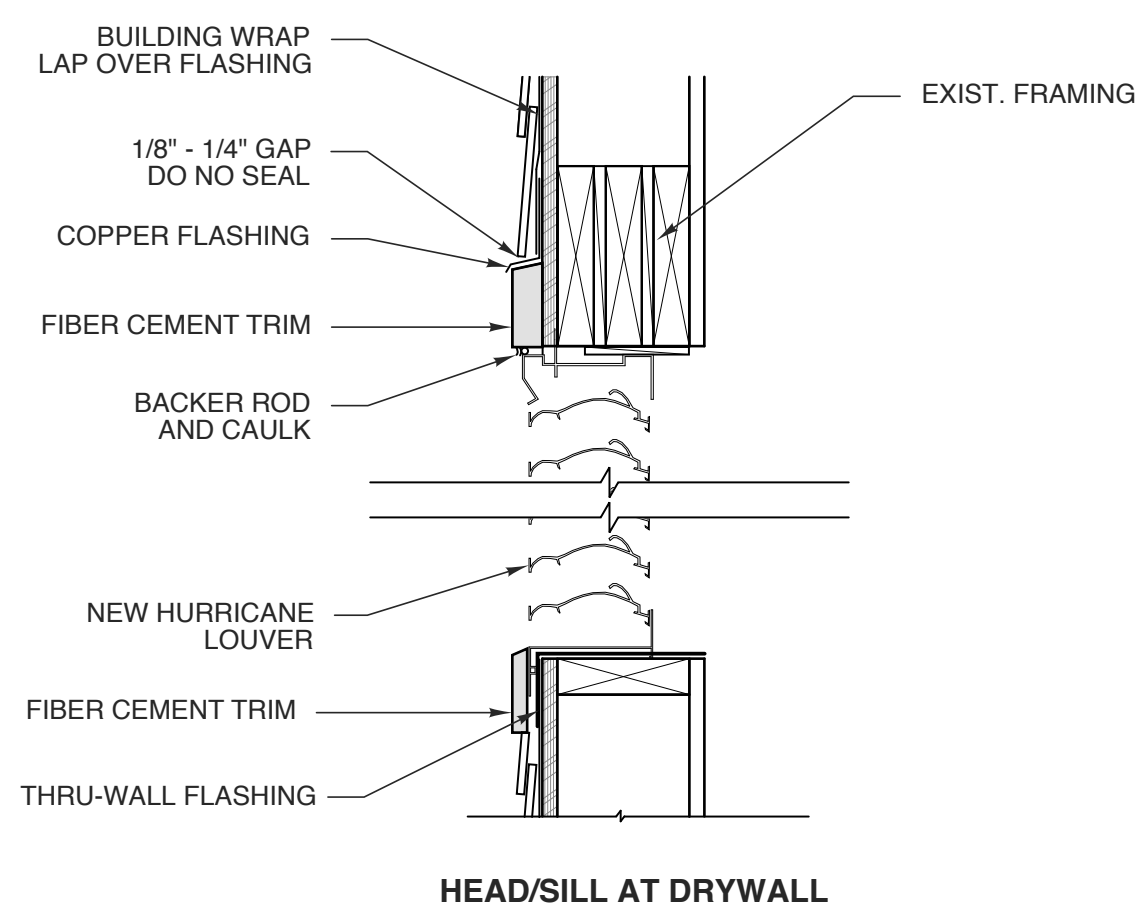
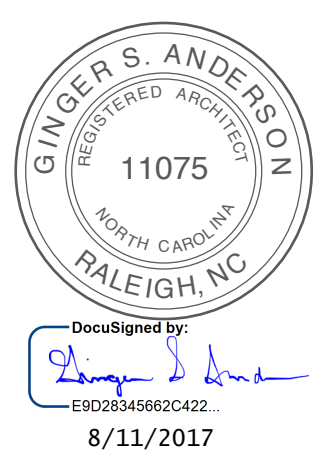
HARDWARE SETS
 1. ADA DOOR OPERATOR WITH PUSH PAD
 2. PUSH PULL HARDWARE WITH CLOSER
 3. PASSAGE WITH CLOSER
 4. ADA CUP PULL WITH CLOSER
 5. LOCKSET WITH CLOSER
 SEE SPEC FOR REMAINDER OF HARDWARE

ROOM FINISH SCHEDULE										
MARK	ROOM NAME	FLOOR	BASE	WALL			WAINSCOT	CEILING		REMARKS / NOTES
				N	E	S		W	MATERIAL	
101	LOBBY	TILE	TILE	TILE	TILE	---	---	PTD. DW.	EXIST.	REPLACE SHEET ROCK AT CLG.
102	MEN 1	TILE	TILE	TILE	TILE	---	---	PTD. DW.	EXIST.	REPLACE SHEET ROCK AT CLG. REMOVE SHEATHING @ SINK/TOILET
103	PIPE CHASE	TILE	---	NEW PLYWOOD TO BE PTD.	---	---	---	PTD. DW.	EXIST.	---
104	MEN 2	TILE	TILE	TILE	TILE	---	---	PTD. DW.	EXIST.	REPLACE SHEET ROCK AT CLG. REMOVE SHEATHING @ SINK/TOILET
105	FAMILY RESTROOM	TILE	TILE	SEE ELEV.	---	---	---	PTD. DW.	EXIST.	REPLACE SHEET ROCK AT CLG. REMOVE SHEATHING @ SINK/TOILET
106	JANITOR	TILE	---	NEW PLYWOOD TO BE PTD.	---	---	---	PTD. DW.	EXIST.	REPLACE SHEET ROCK AT CLG.
107	STORAGE	TILE	---	NEW PLYWOOD TO BE PTD.	---	---	---	PTD. DW.	EXIST.	REPLACE SHEET ROCK AT CLG.
108	WOMEN 2	TILE	TILE	TILE	TILE	---	---	PTD. DW.	EXIST.	REPLACE SHEET ROCK AT CLG. REMOVE SHEATHING @ SINK/TOILET
109	PIPE CHASE	TILE	---	NEW PLYWOOD TO BE PTD.	---	---	---	PTD. DW.	EXIST.	---
110	WOMEN 1	TILE	TILE	TILE	TILE	---	---	PTD. DW.	EXIST.	REPLACE SHEET ROCK AT CLG. REMOVE SHEATHING @ SINK/TOILET
111	VISITOR CENTER	---	---	---	---	---	---	---	---	existing finishes to remain; repair and paint as needed for replacement of windows
112	SERVICE COUNTER	---	---	---	---	---	---	---	---	existing finishes to remain; repair and paint as needed for replacement of windows
113	STAFF RESTROOM	---	---	---	---	---	---	---	---	existing finishes to remain; repair and paint as needed for replacement of windows
114	STORAGE	---	---	---	---	---	---	---	---	existing finishes to remain; repair and paint as needed for replacement of windows
115	OFFICE	---	---	---	---	---	---	---	---	existing finishes to remain; repair and paint as needed for replacement of windows
116	OFFICE	---	---	---	---	---	---	---	---	existing finishes to remain; repair and paint as needed for replacement of windows
117	OFFICE	---	---	---	---	---	---	---	---	existing finishes to remain; repair and paint as needed for replacement of windows
118	BREAK ROOM	---	---	---	---	---	---	---	---	existing finishes to remain; repair and paint as needed for replacement of windows
119	COVERED PORCH	WD. DECK	existing	existing	---	---	---	EXIST.	EXIST.	---

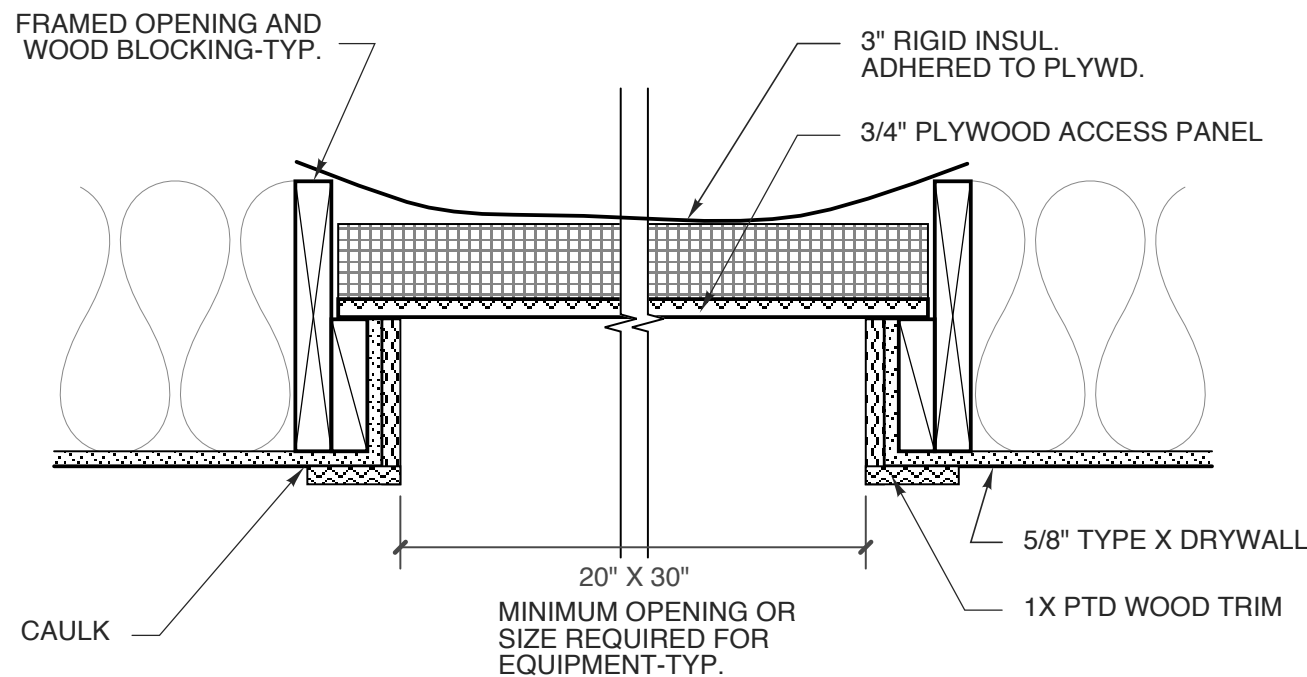
SEE FINISH PLAN (A1.4), INT. ELEVATIONS (A1.5) AND A1.7-A1.12 FOR MORE INFORMATION ON FINISHES.



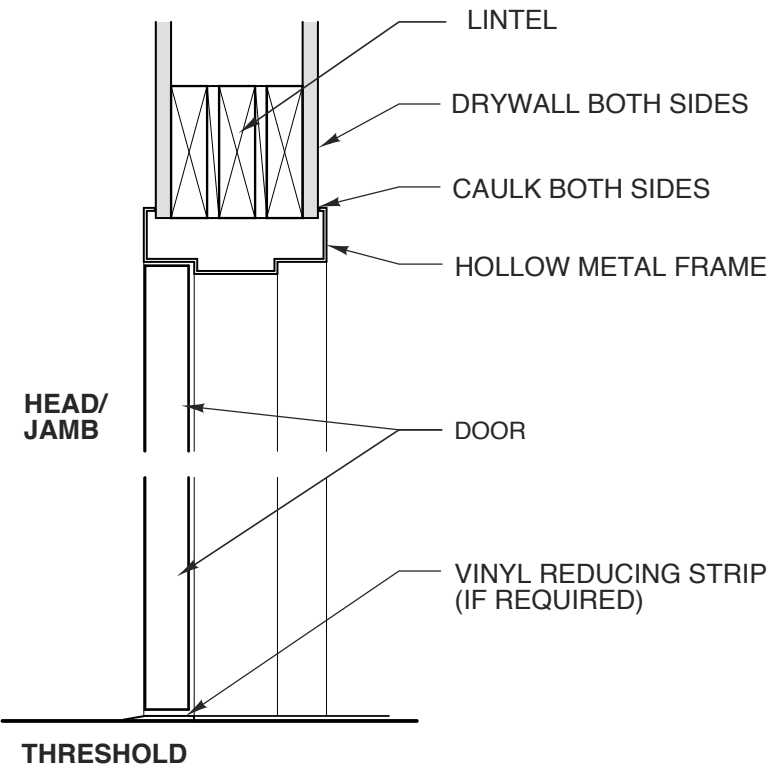
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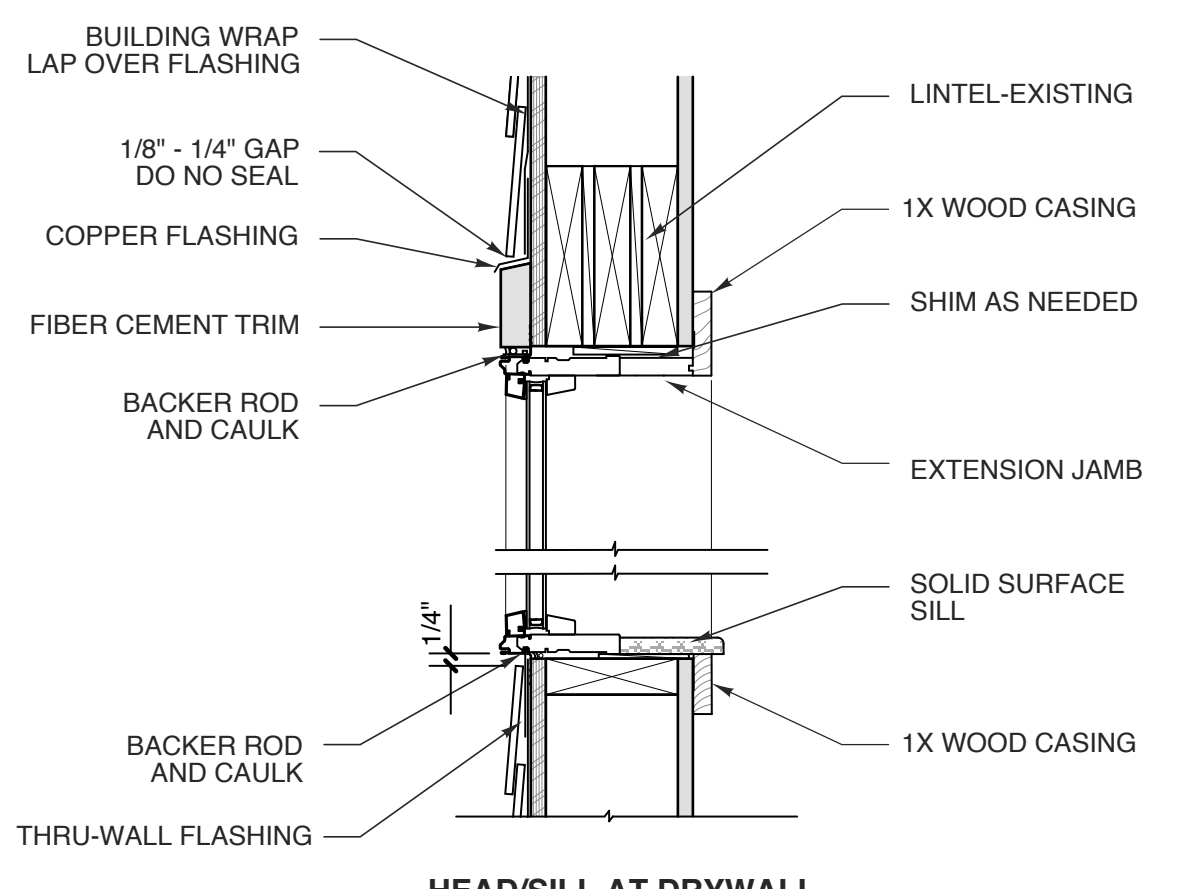
8 LOUVER DETAIL
 SCALE: 1-1/2" = 1'-0"



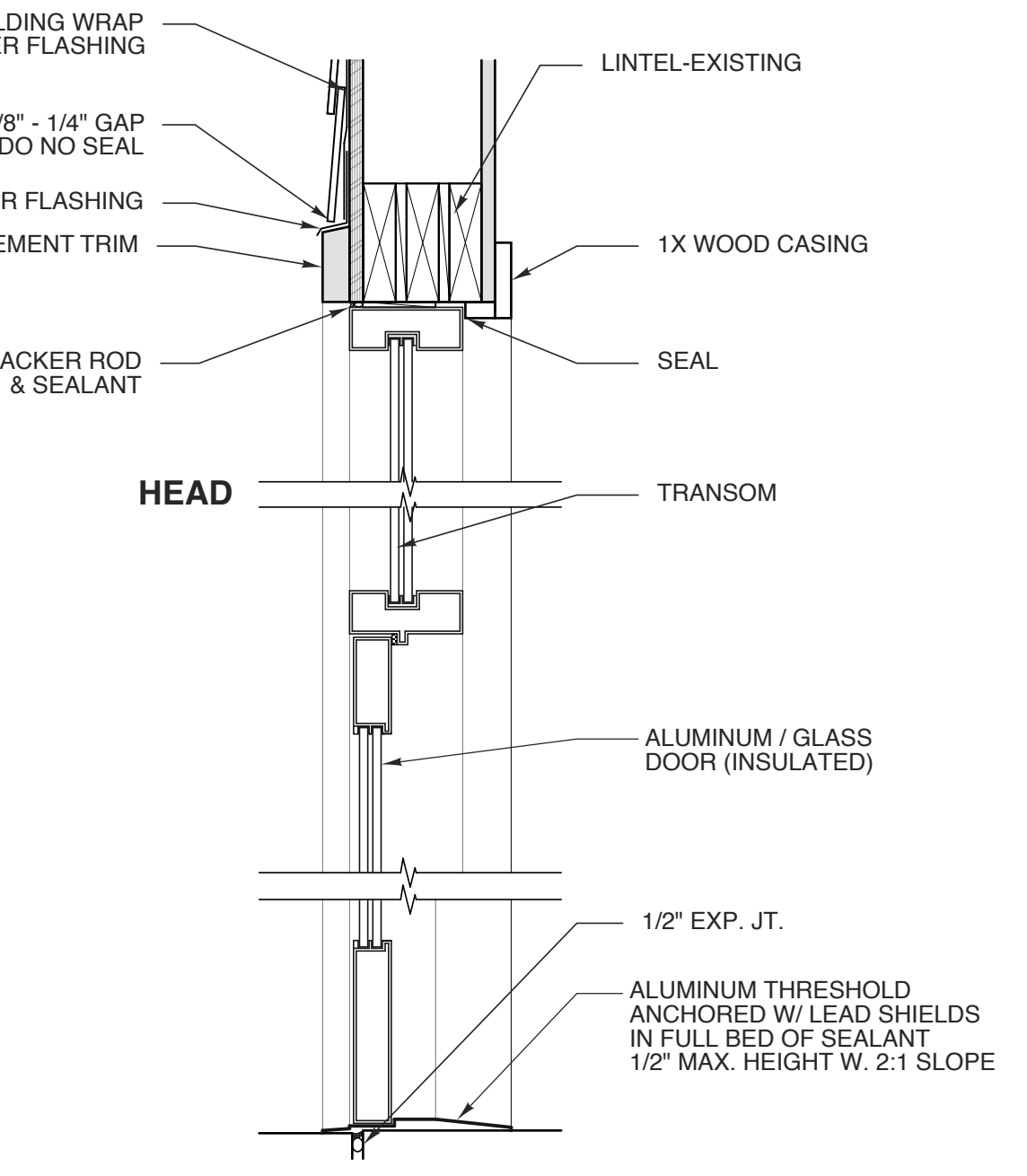
7 SCUTTLE DETAIL
 SCALE: 1 1/2" = 1'-0"



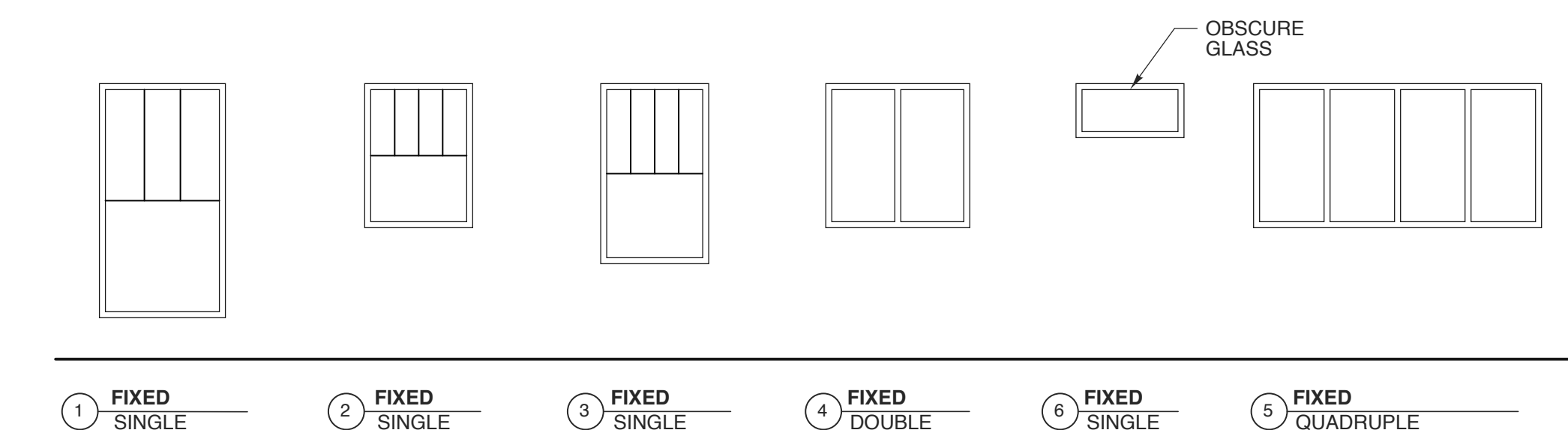
6 INT. HM FRAME
 SCALE: 1 1/2" = 1'-0"



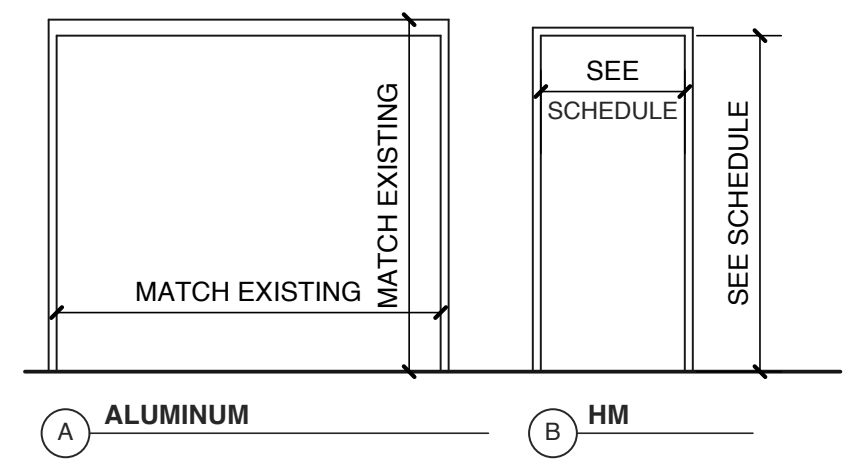
5 FIXED WINDOW
 SCALE: 1-1/2" = 1'-0"



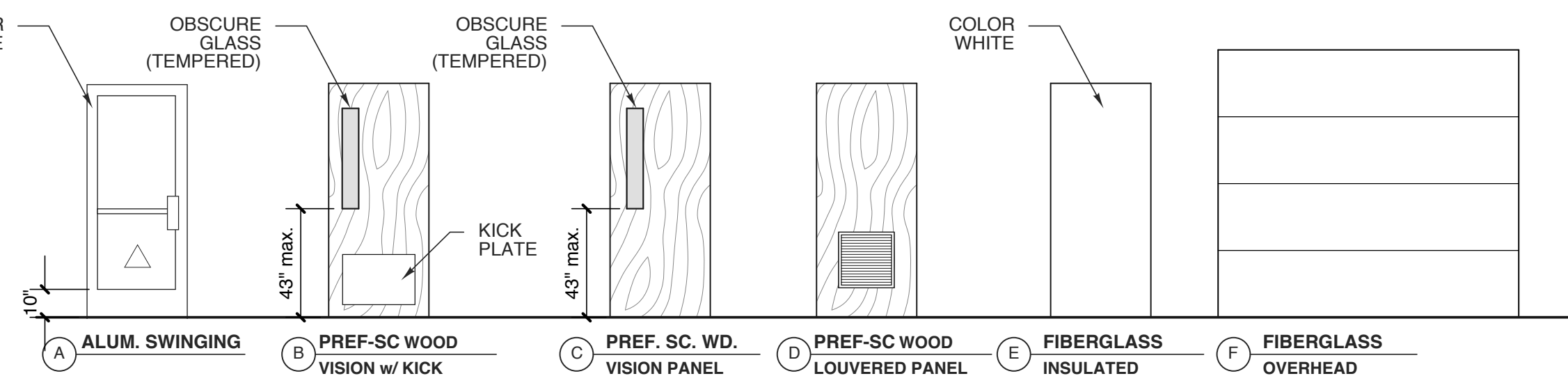
4 STOREFRONT DOOR
 SCALE: 1-1/2" = 1'-0"



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



2 DOOR FRAME TYPES
 SCALE: 1/4" = 1'-0"



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

STATE ID#: 17-17533-01A
 WBS ELEMENT: 51213.031

PROJECT TITLE
CARTER COUNTY REST AREA
 3409 ARENDELL STREET
 MOREHEAD CITY, NORTH CAROLINA

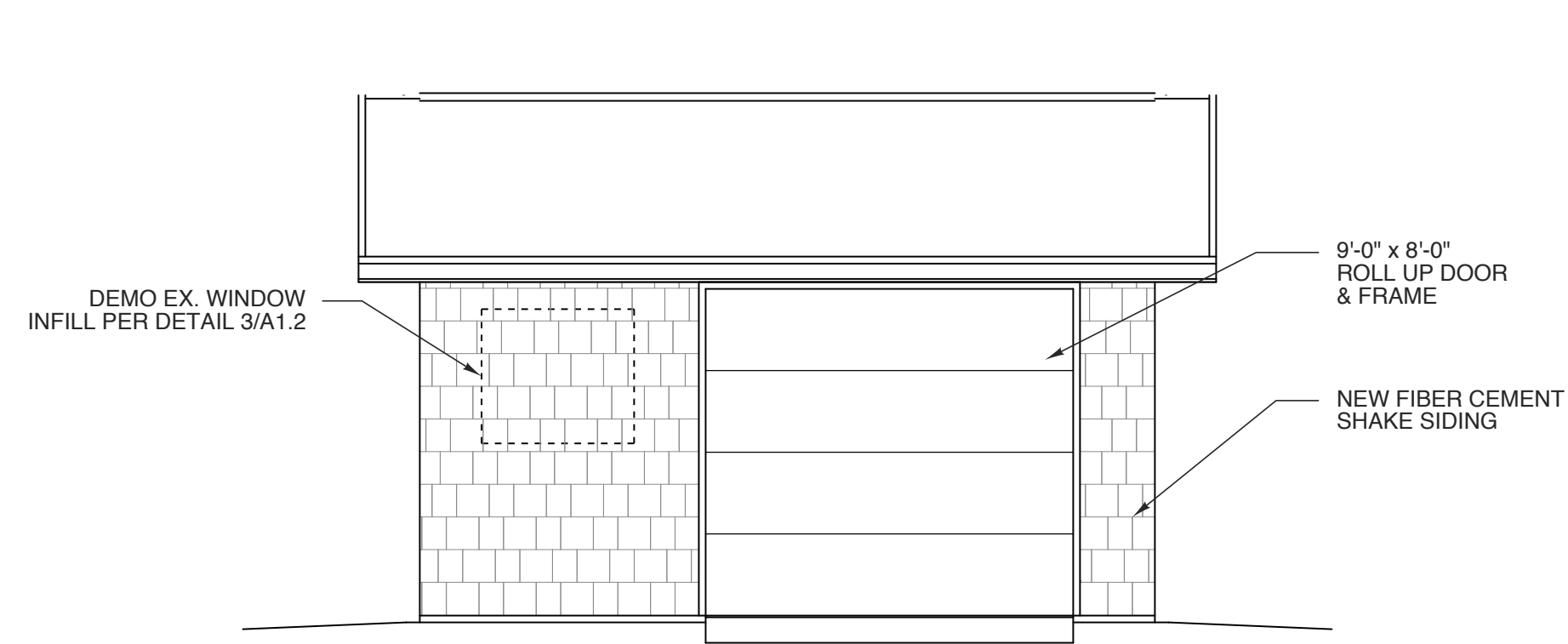
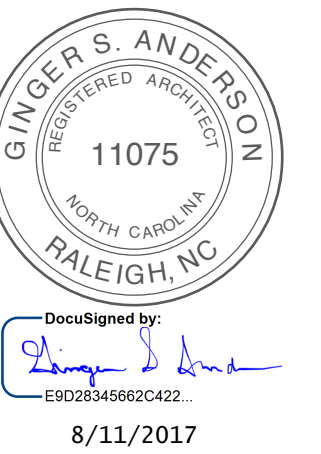
PROJECT NO.
1604a
 DRAWING TITLE
SCHEDULES/DETAILS

SHEET 18 OF 19

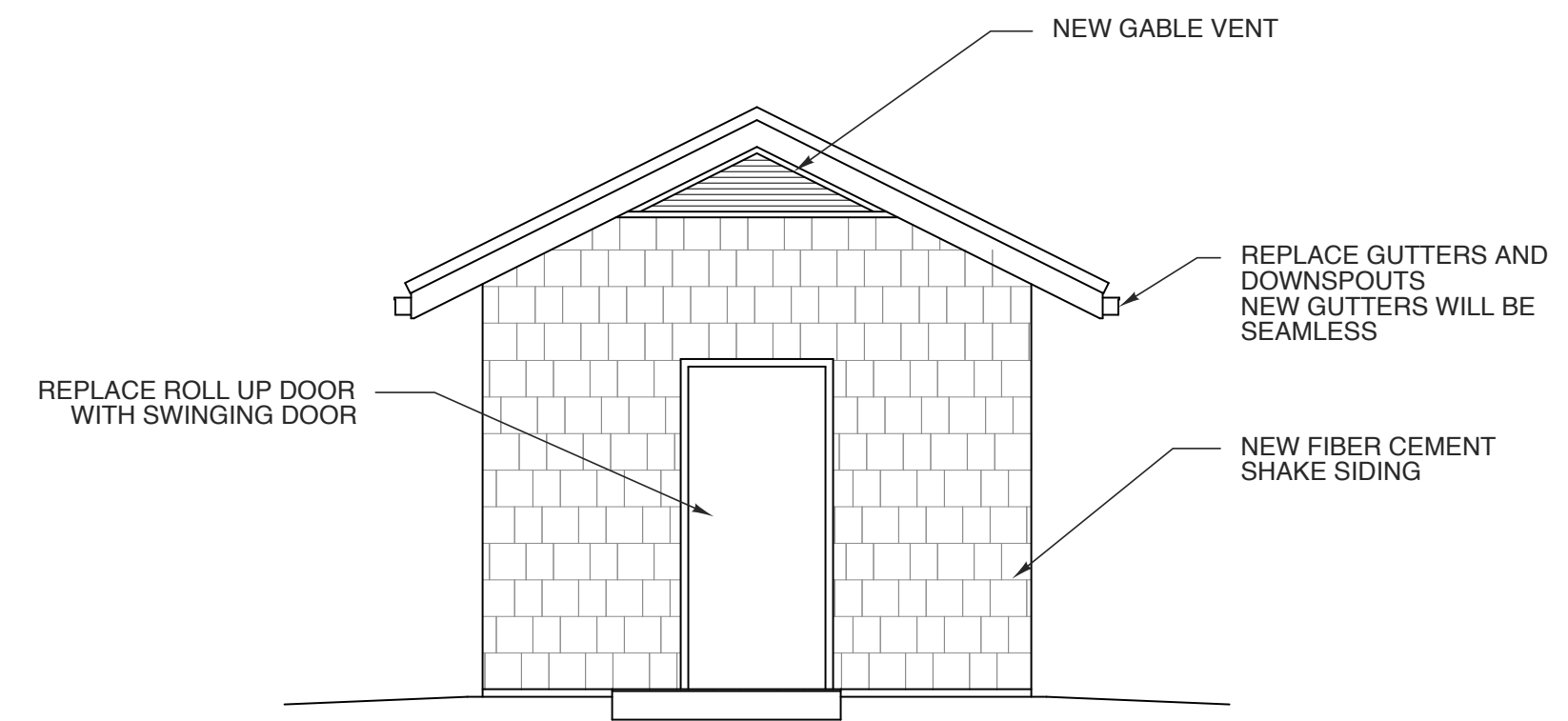


PLOT DATE 8/11/17
 ISSUE DATE 8/10/17

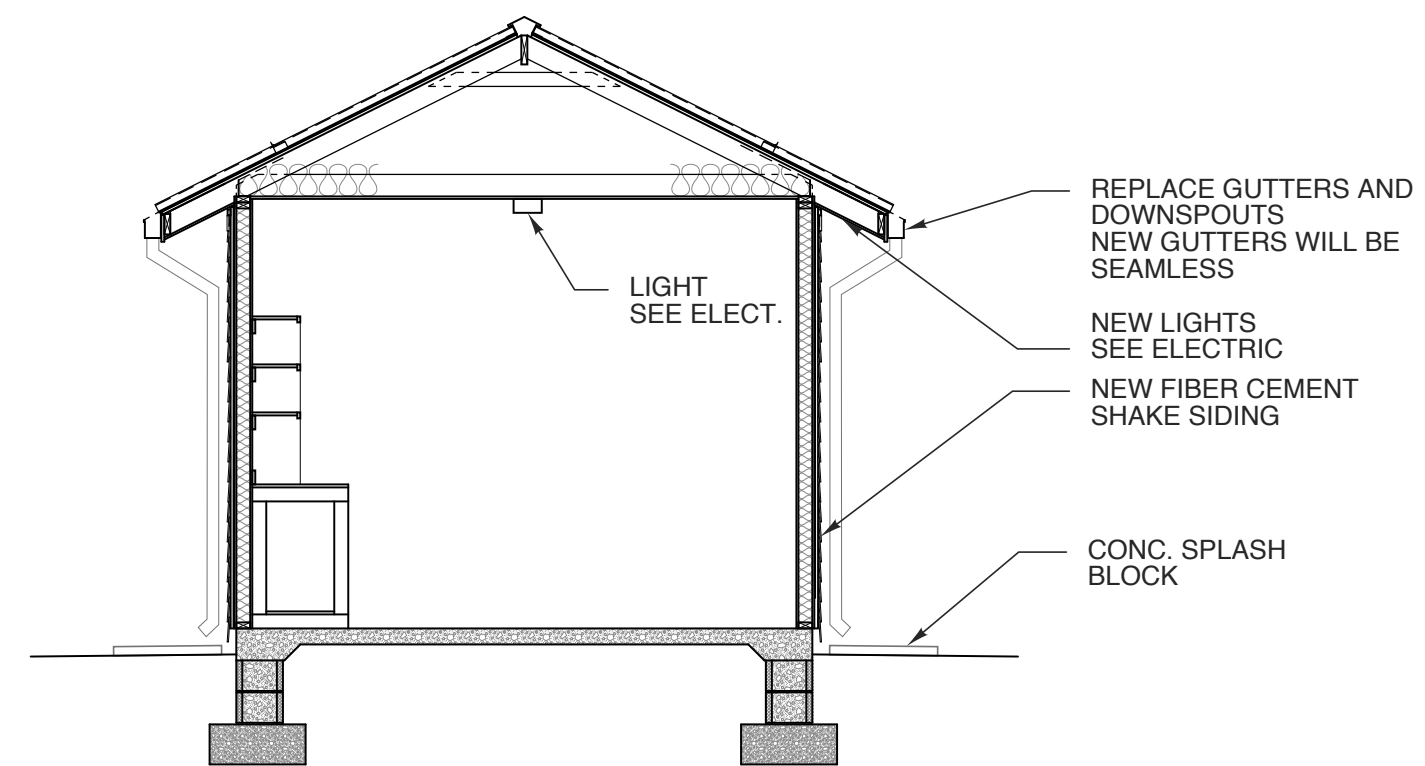
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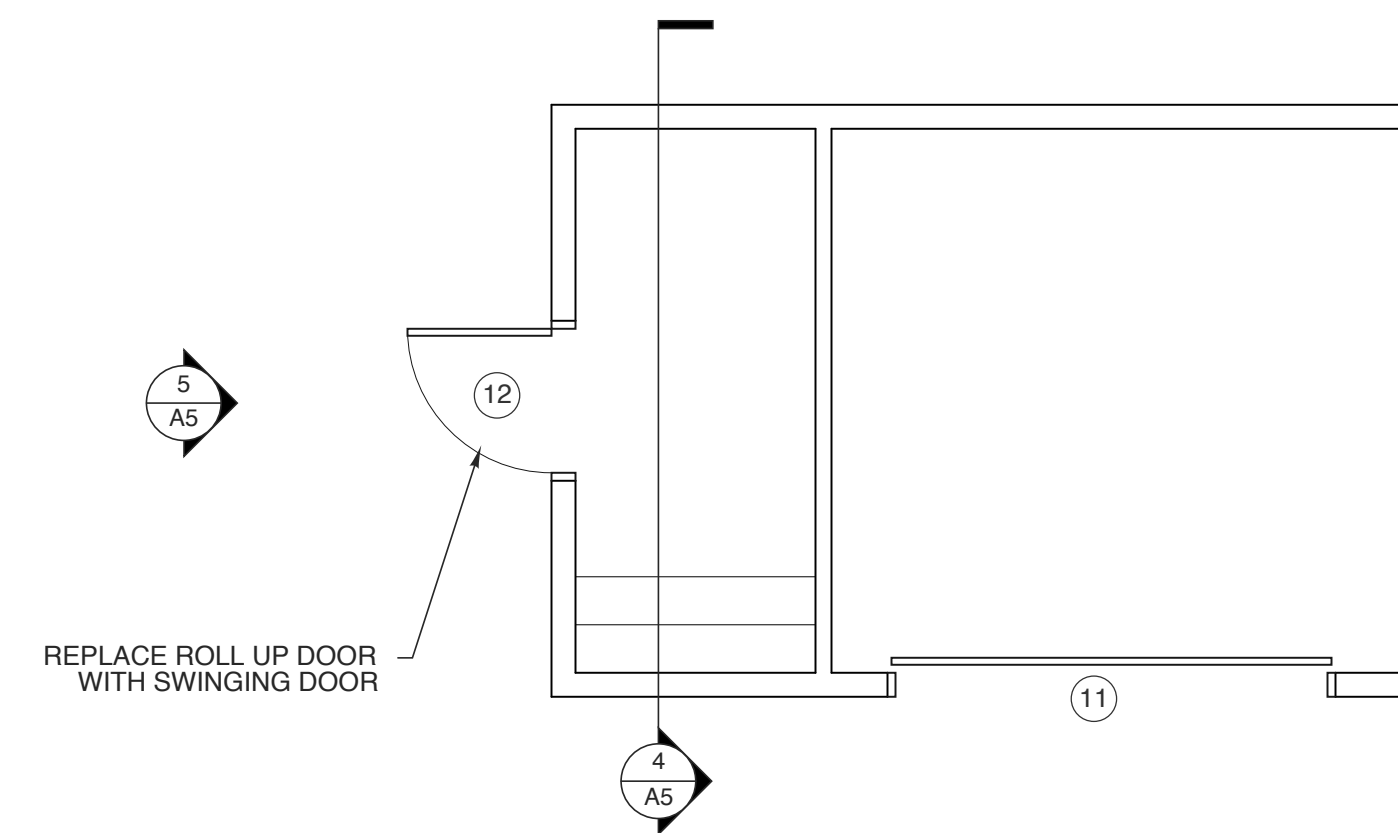
6 ELEVATION
SCALE: 1/4" = 1'-0"



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



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



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

STATE ID#: 17-17533-01A
WBS ELEMENT: 51213.031

PROJECT TITLE
**CARTERET COUNTY
REST AREA**
3409 AREDELLE STREET
MOREHEAD CITY, NORTH CAROLINA

PROJECT NO.
1604a

DRAWING TITLE
STORAGE SHED

SHEET 19 OF 19

A5

PLOT DATE 8/11/17
ISSUE DATE 8/10/17

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- 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:
- Lighting and power distribution system.
 - Provide lighting fixtures per light fixture schedule with lamps to match.
 - Wiring devices, boxes, cover plates, etc.
 - Source of power for all items of equipment.
 - Grounding.
 - 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:
- The 2014 National Electrical Code.
 - The National Electrical Safety Code.
 - Underwriter's Laboratories, Inc., Standards and approved listings or other approved 3rd party listing agency.
 - Electrical Testing Laboratories standards.
 - 2012 North Carolina State Building Code.
 - 2012 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.
- 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 NCCOI listed and labeled where such standard has been established for the particular material. Materials shall be the standard products of manufacturer's regularly engaged in the manufacturer of the required type of equipment and the manufacturer's latest approved design.
- Boxes installed in concealed locations shall be set flush with the finished surfaces.
 - 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 2011 NEC 200.6.
- 208/120V, 3 phase
 Phase A– Black
 Phase B– Red
 Phase C– Blue
 Neutral– White
 Ground– Green
- 480/277V, 3 phase
 Phase A– Brown
 Phase B– Orange
 Phase C– Yellow
 Neutral– Natural Gray
 Ground– Green

- B. Conductors shall be manufactured by Dodge, Southwire or approved equal. Conductors shall meet the latest requirements of NEMA and IPCEA and shall be third party acceptable to NCCOI approved.
- C. Conductors shall be spliced and taped as follows:
- Size #10 and #12, use Ideal "Wing Nuts" or T&B "Tiggy" connectors. Connectors shall be rated for 150 degrees C for use in recessed lighting fixtures.
 - 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.
 - No split-bolt type connectors may be used.

- D. All branch wire and connections shall be copper and sized per National Electric Code.
- 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. All multi-wire branch circuits shall comply with 2014 NEC, 210.4(B).

- 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 buses.
- B. Safety switches shall be heavy duty type, size and rating as required for load 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 commercial grade by Bryant, Leviton, Cooper or approved equal. With matching cover. 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 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 penicil 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–
 Blue surface with white core– 120/208v 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:
- 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.
 - Equipment ground continuity shall be maintained through flexible metal conduit.
 - All wiring devices equipped with grounding connection shall be solidly grounded to ground system with grounding conductors.
 - The frame of all lighting fixtures shall be securely grounded to the equipment ground system with grounding conductors.
 - All equipment enclosures, and non-current-carrying metallic parts of electrical equipment, raceway systems, etc., shall be effectively and adequately bonded to ground.
 - All equipment enclosures, and non-current-carrying metallic parts of electrical equipment, raceway systems, etc., shall be effectively and adequately bonded to ground.
 - 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.

- 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 the 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.

ELECTRICAL SYSTEMS AND EQUIPMENT

PRESCRIPTIVE _____ PERFORMANCE _____ ENERGY COST BUDGET _____

Provide a standard riser diagram which indicates designated points for check metering. Provide a standard panel schedule description which identifies different enduse loads.

METHOD OF COMPLIANCE

Lighting schedule: X

lamp type required in fixture
 number of lamps in fixture
 ballast type used in fixture
 number of ballasts in fixture
 total wattage in fixture
 total interior wattage specified vs. allowed

See Light Fixture Schedule

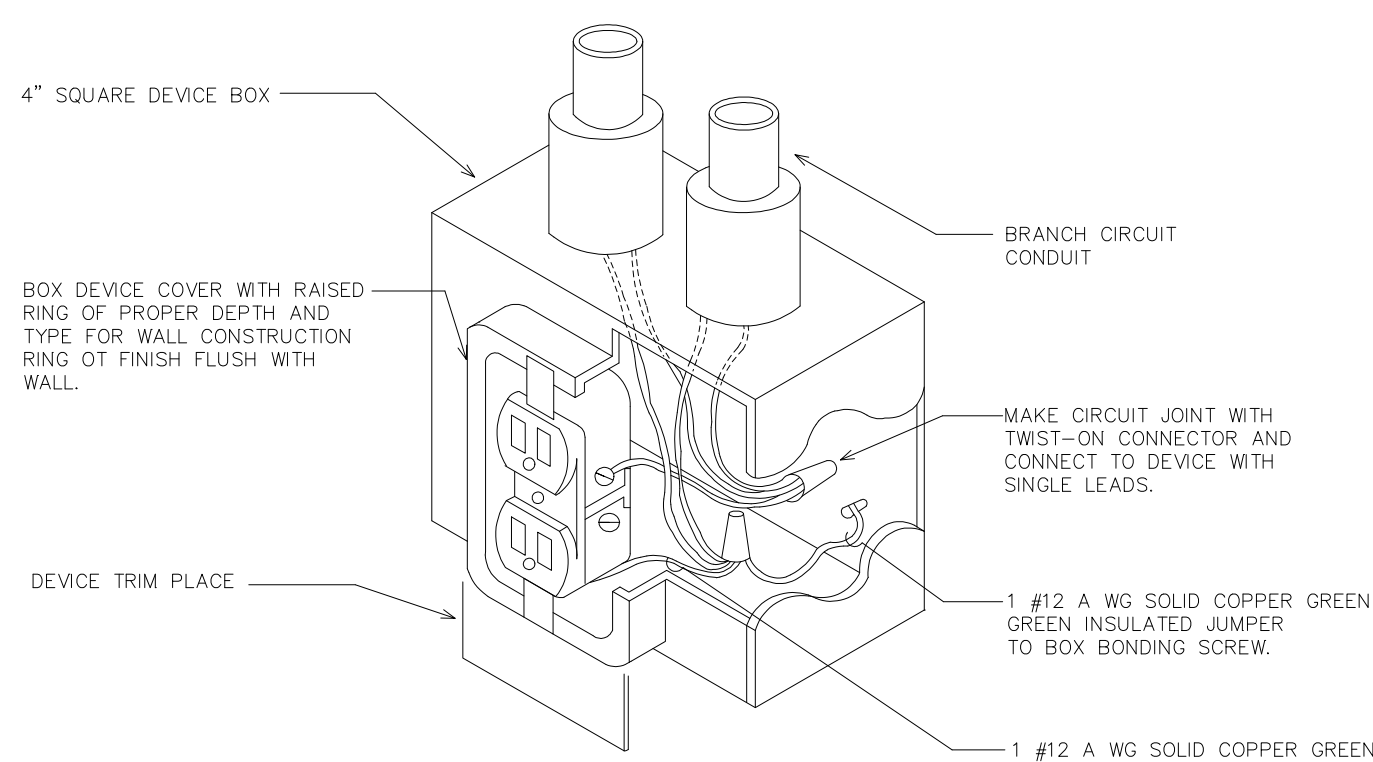
1355VA / 1481VA

Equipment schedules with motors (not used for mechanical systems) NA

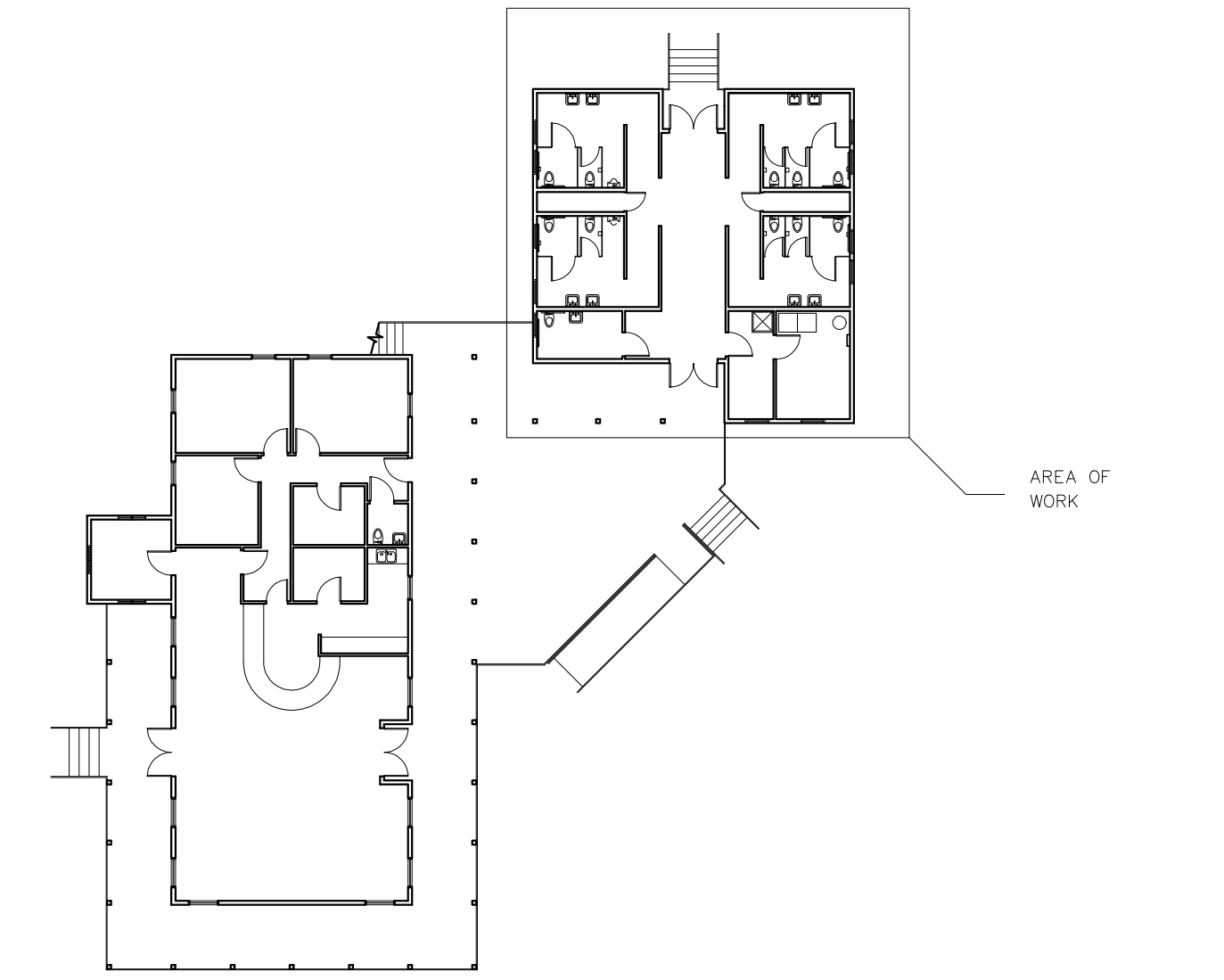
motor horsepower	NA
number of phases	NA
minimum efficiency	NA
motor type	NA
# of poles	NA

DESIGNER STATEMENT

I hereby certify that the design of this building complies with the electrical systems, services systems, and equipment requirements of the 2012 North Carolina State Building Code, Energy Edition.



1 RECEPTACLE GROUNDING DETAIL
NOT TO SCALE

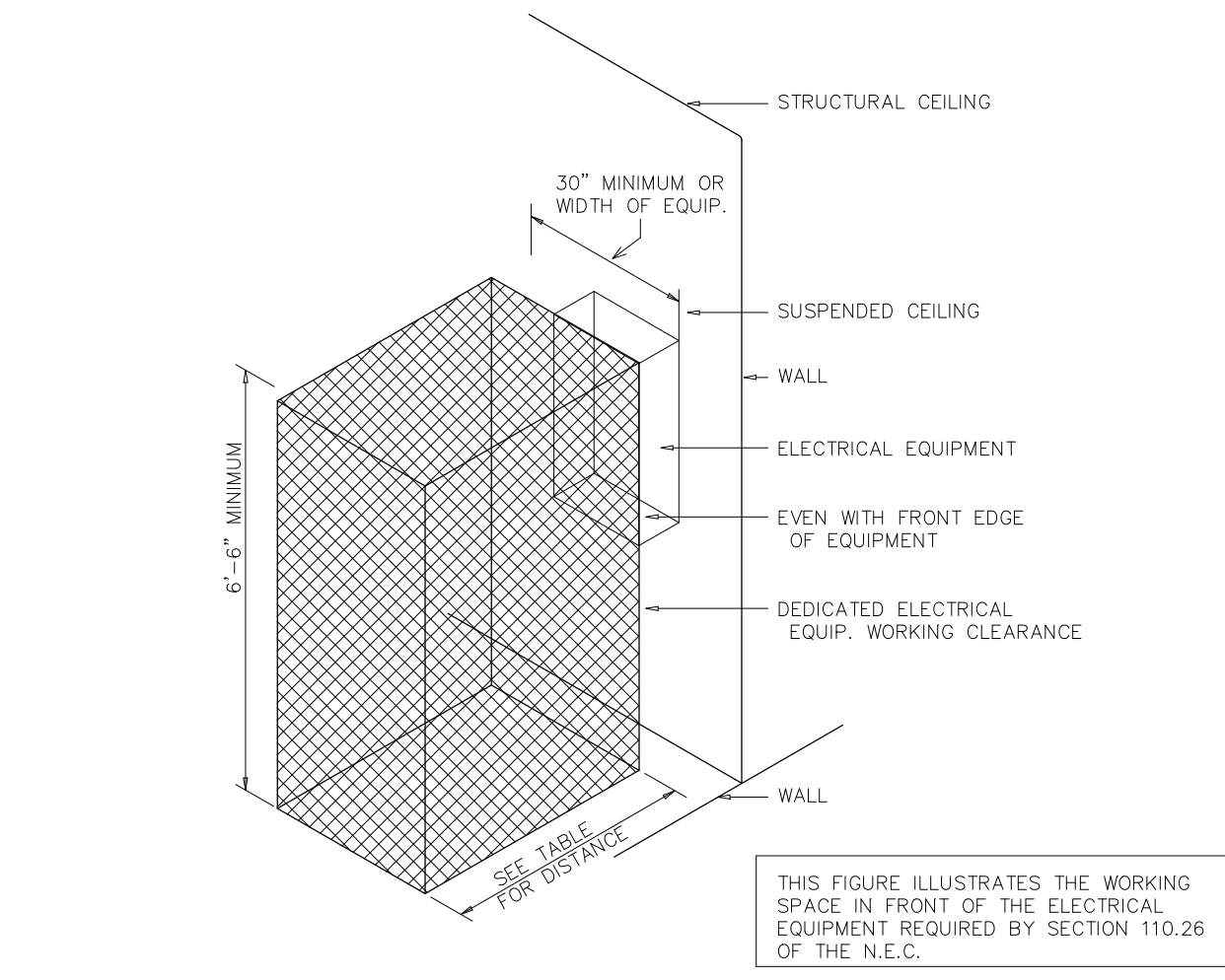
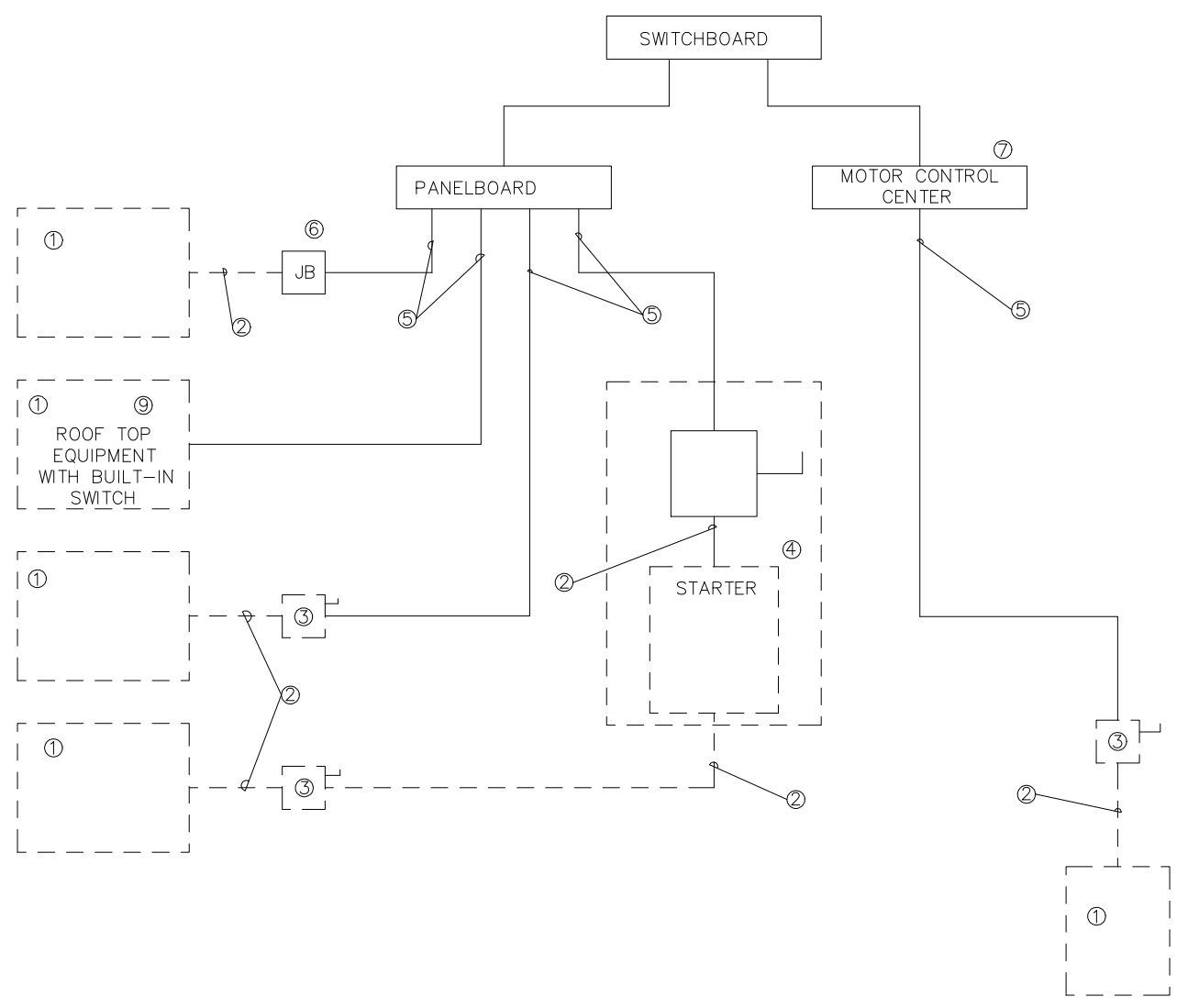


5 KEY PLAN
SCALE: NOT TO SCALE

ELECTRICAL LEGEND



3 ELECTRICAL EQUIPMENT CONNECTION
NOT TO SCALE

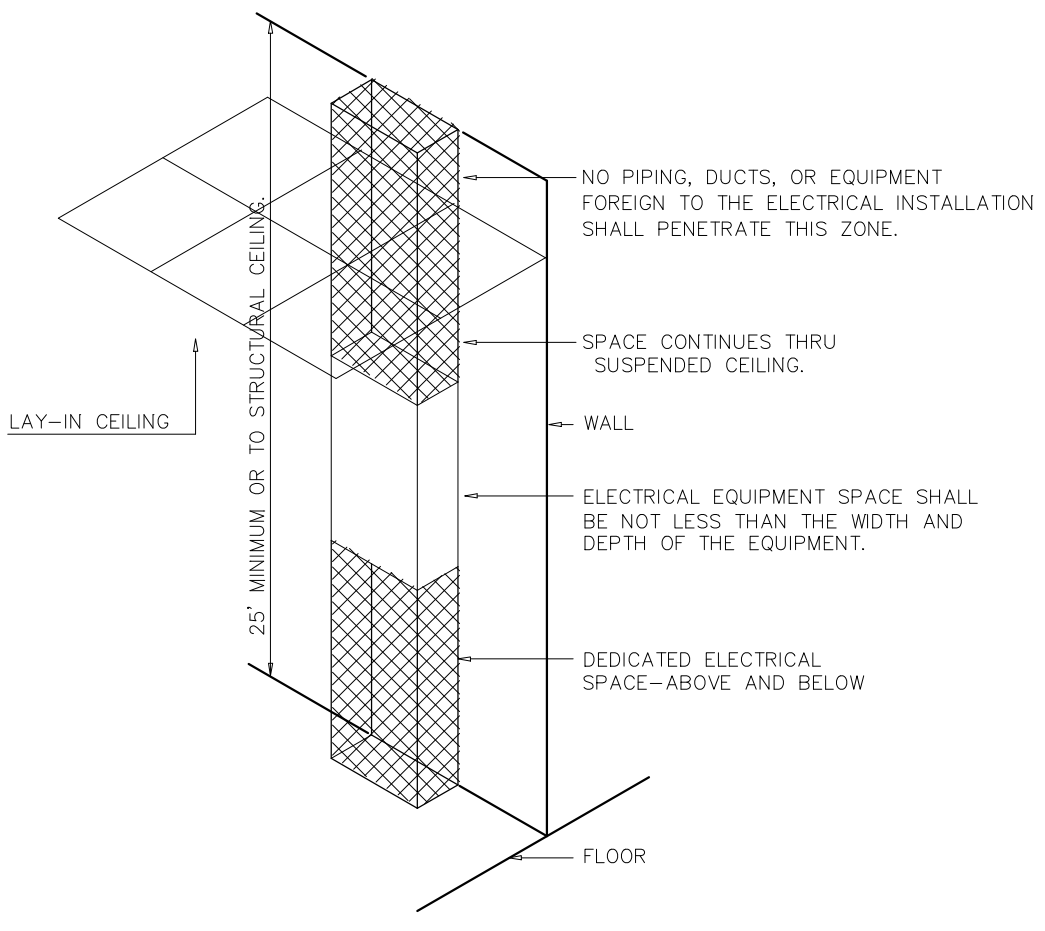


ELECTRICAL EQUIPMENT WORKING CLEARANCE PER ARTICLE 110.26 OF N.E.C.

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

- WHERE THE CONDITIONS ARE AS FOLLOWS:
- EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKING SPACE THAT ARE EFFECTIVELY GUARDED BY INSULATING MATERIALS.
 - EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE. CONCRETE, BRICK OR TILE WALLS SHALL BE CONSIDERED AS GROUNDED.
 - EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE.

2 DEDICATED SPACE
NOT TO SCALE

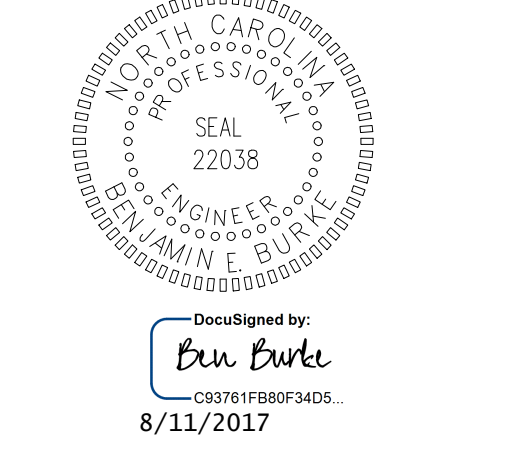


4 ELECTRICAL CLEARANCES
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STATE ID# 17-17533-01A
 WBS ELEMENT 51213.031

PROJECT TITLE
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 REST AREA
 3409 ARENDELL STREET
 MOREHEAD CITY, NORTH CAROLINA

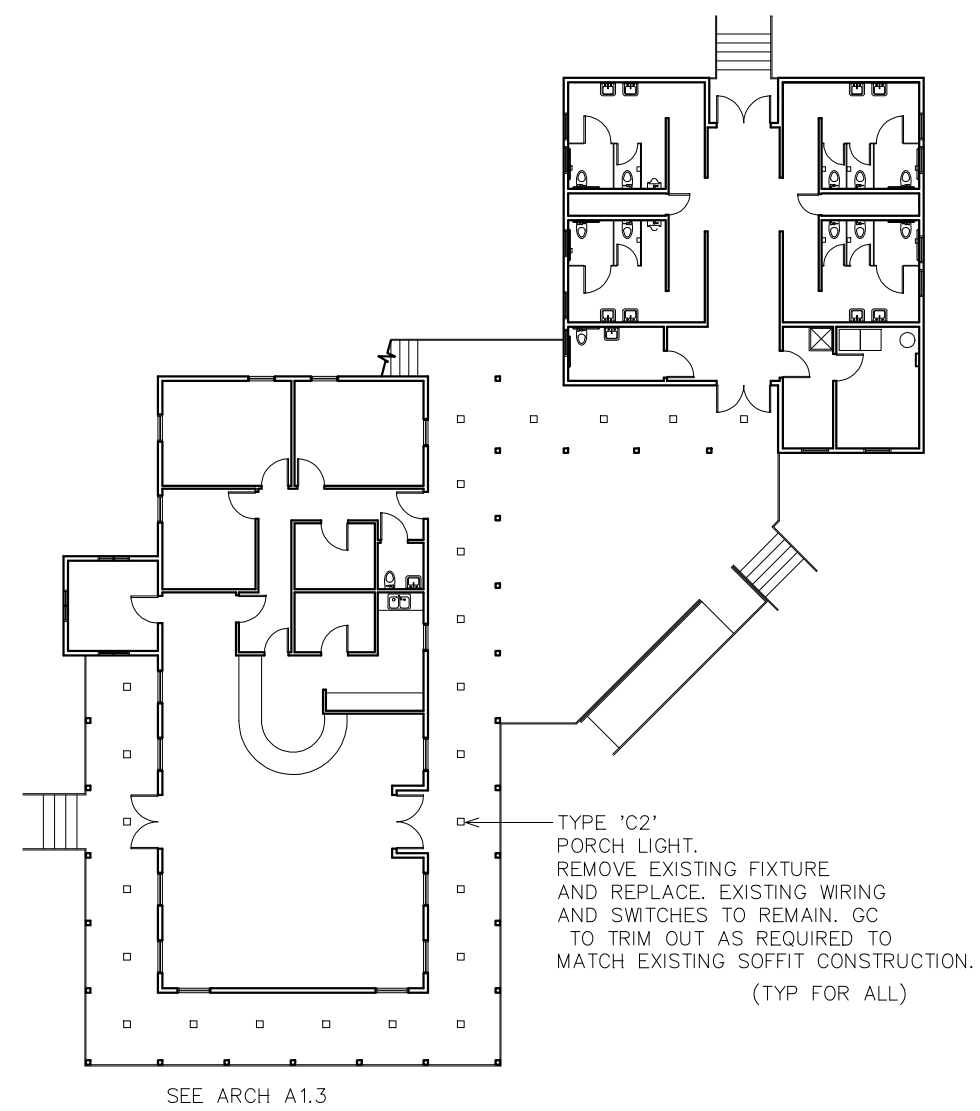
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 ELECTRICAL
 NOTES, SPECS, DETAILS



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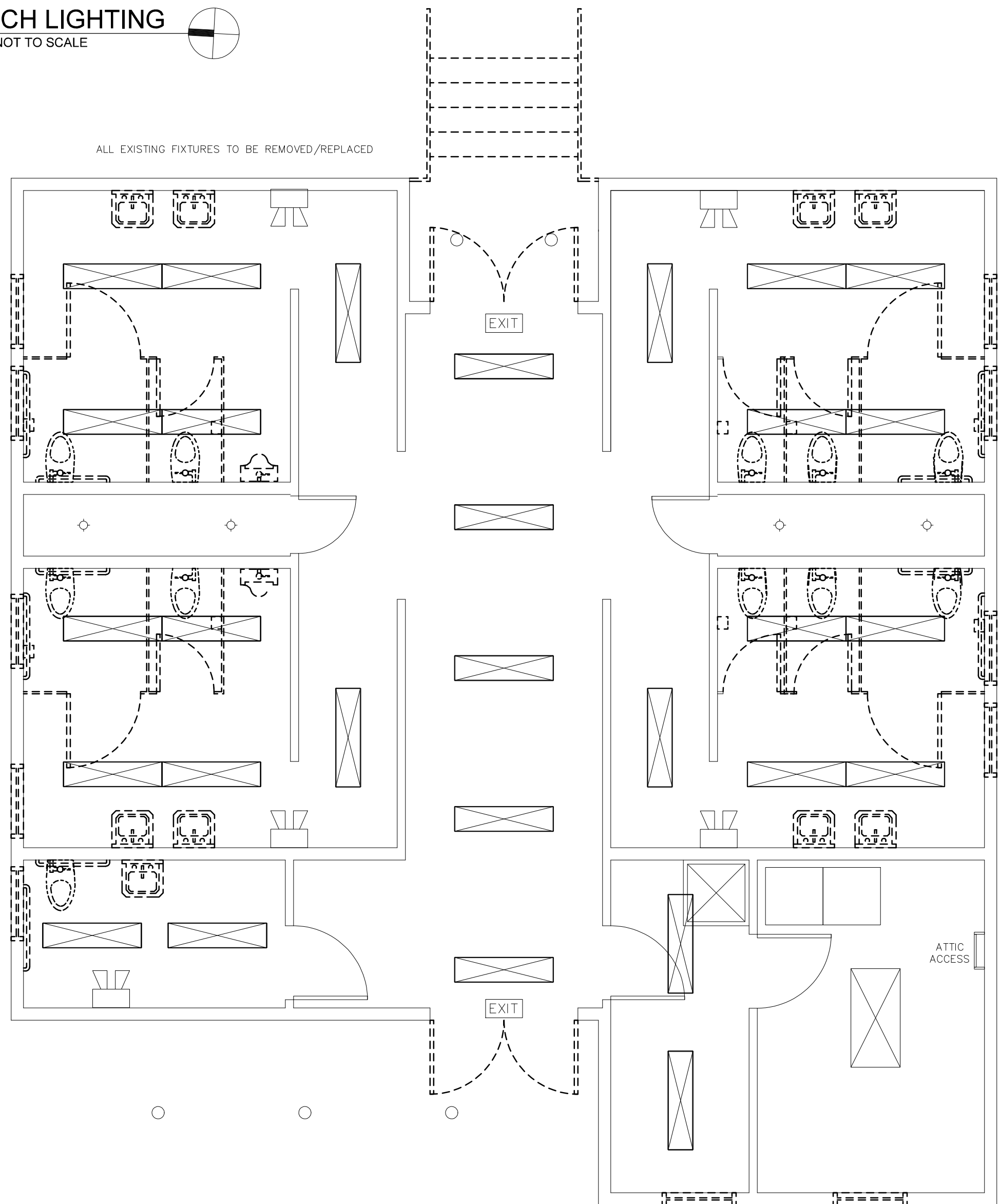


SEE ARCH A1.3

3 PORCH LIGHTING
SCALE: NOT TO SCALE

NOTE:
THE EXISTING INFORMATION SHOWN ON THIS DRAWING 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.

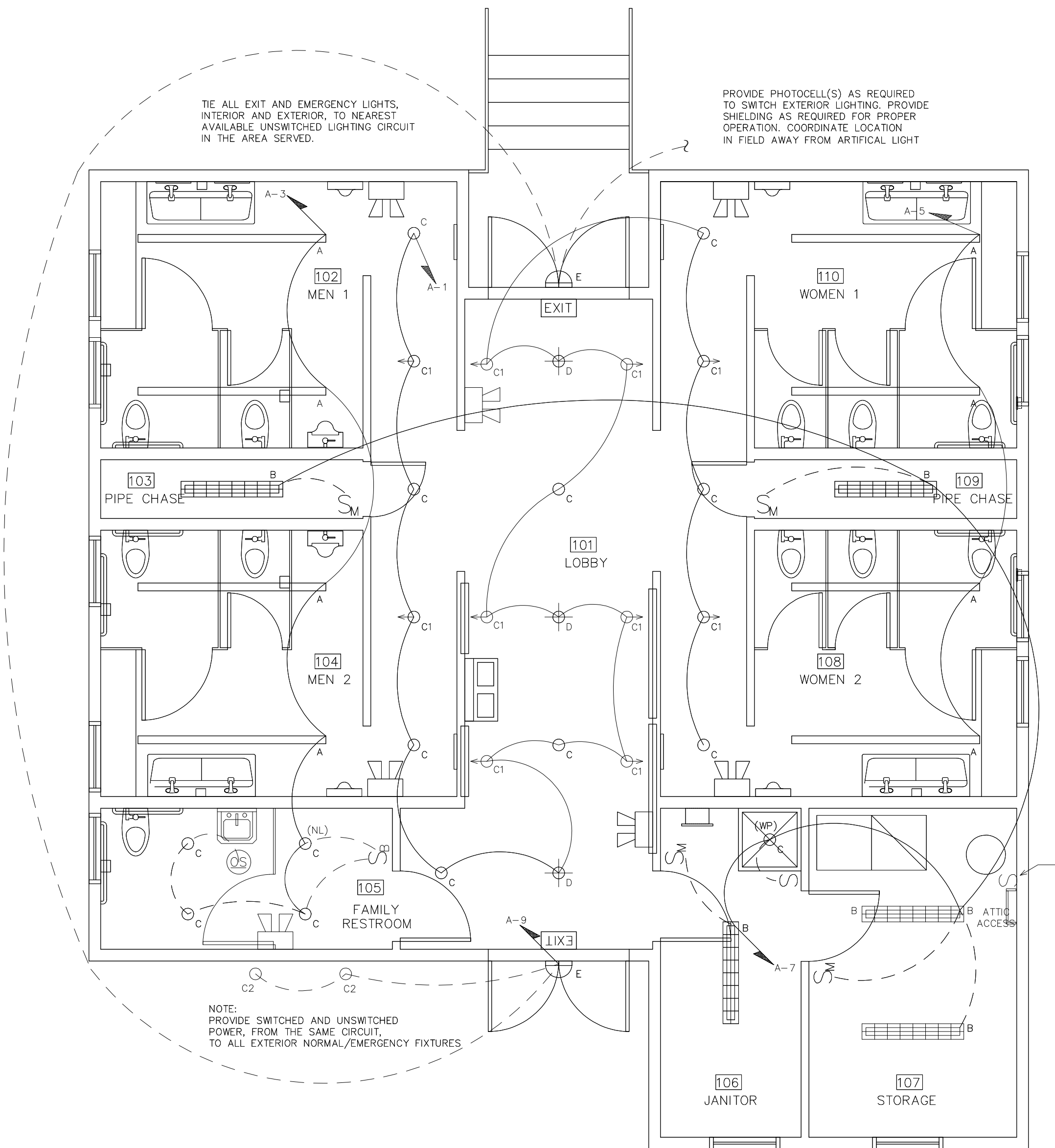
THE SCOPE OF DEMOLITION IS AS FOLLOWS—
REMOVE ALL LIGHTING AND CIRCUITS BACK TO THE PANEL UNLESS OTHERWISE NOTED. ALL LIGHTS NOTED AS REMAINING SHALL BE CLEANED AND RE-LAMPED. REMOVE ALL DEMO'D LIGHT FIXTURES AND PROPERLY DISPOSE OF ALL FIXTURES, BALLASTS, ETC. REMOVE ALL DEVICES AS SHOWN. REFEED ANY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



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

LIGHTING SCHEDULE *									
MARK	MANUFACTURER	CATALOG NO.	VOLT	LAMPS		BALLAST		REMARKS	
				NO.	TYPE	W	TYPE		
A	FINELITE	HP-4D-B-S-S-3500K-TG-120V-FA-SC-C4	120	-	LED	36	-	SURFACE-MOUNT INDIRECT/DIRECT LUMINAIRE	
B	COLUMBIA	CS4-232-EPU-CSWG4	120	2	T8	32	EB	48" STANDARD STRIP, WIRE GUARD	**
C	PRESCOULTE	LF6LED-6LFLED540K	120	-	LED	20	-	6" RECESSED CAN, IC RATED	
C1	PRESCOULTE	LF6LED-6LFLED540K	120	-	LED	20	-	6" RECESSED CAN, IC RATED, WALL WASHER	
C2	PRESCOULTE	LF6LED-6LFLED540K	120	-	LED	20	-	6" RECESSED CAN, IC RATED, WP CASE	
D	PENDANT	CHOSEN BY ARCH. PROVIDED BY EC	120	-	LED	25	-	LED PENDANT FIXTURE (\$250 ALLOWANCE EACH), PROVIDE 3 SPARE FIXTURES	
E	DUAL-LITE	PGN	120	-	LED	17	-	EXTERIOR NORMAL/EMERGENCY LIGHT FIXTURE- COLOR BY ARCH	
F	PRESCOULTE	LBSQLED10L-35K-9-WH	120	-	LED	20	-	7" SURFACE MOUNT SOFFIT LIGHT	
EXIT	MULE	PVT-1-B-R-U-BA-SD	120	-	LED	2	-	EXIT LIGHT WITH BATTERY, CLEAR GLASS, UNIVERSAL SURFACE, SELF DIAGNOSTICS	**
EXIT	MULE	AL-1-R-WW-SD	120	-	LED	4	-	COMBINATION EMERGENCY (TUNGSTEN)/ EXIT (LED) LIGHT	**
EXIT	MULE	ELW-BB-10L3-DG	120	-	LED	10	-	EMERGENCY LIGHT, BATTERY BACKUP, BATTERY DIAGNOSTICS, COLOR BY ARCH	**

* OR APPROVED EQUAL BY LITHONIA/DAYBRITE. PROVIDE CUT SHEETS FOR OWNER APPROVAL PRIOR TO ORDERING FIXTURES. FOR FLUORESCENT FIXTURES CONTROLLED BY MOTION SENSOR, PROVIDE "PROGRAMMED RAPID START" BALLASTS. CATALOG NUMBERS ARE FOR REFERENCE ONLY. ACTUAL NUMBERS MAY VARY.
"EB" DENOTES ELECTRONIC BALLAST.
** VERIFY FIXTURE HAS INTEGRAL LOCAL DISCONNECTING MEANS PER NEC 410.130 (G) (2011).
THE EMERGENCY LIGHTS AND EXIT SIGNS MUST HAVE INTEGRAL BATTERIES, CHARGERS AND TEST SWITCHES.

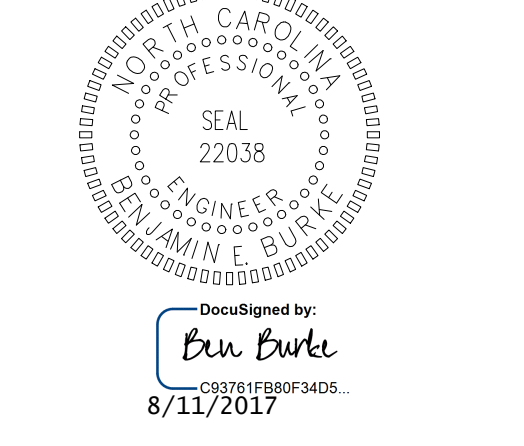


2 REVISED LIGHTING PLAN
SCALE: 1/4" = 1'-0"

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DocuSigned by:
Ben Burke
8/11/2017

STATE ID# 17-17533-01A
WBS ELEMENT 51213.031

PROJECT TITLE
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REST AREA
3409 ARENELL STREET
MOREHEAD CITY, NORTH CAROLINA

PROJECT NO.
1604g
DRAWING TITLE
LIGHTING PLAN

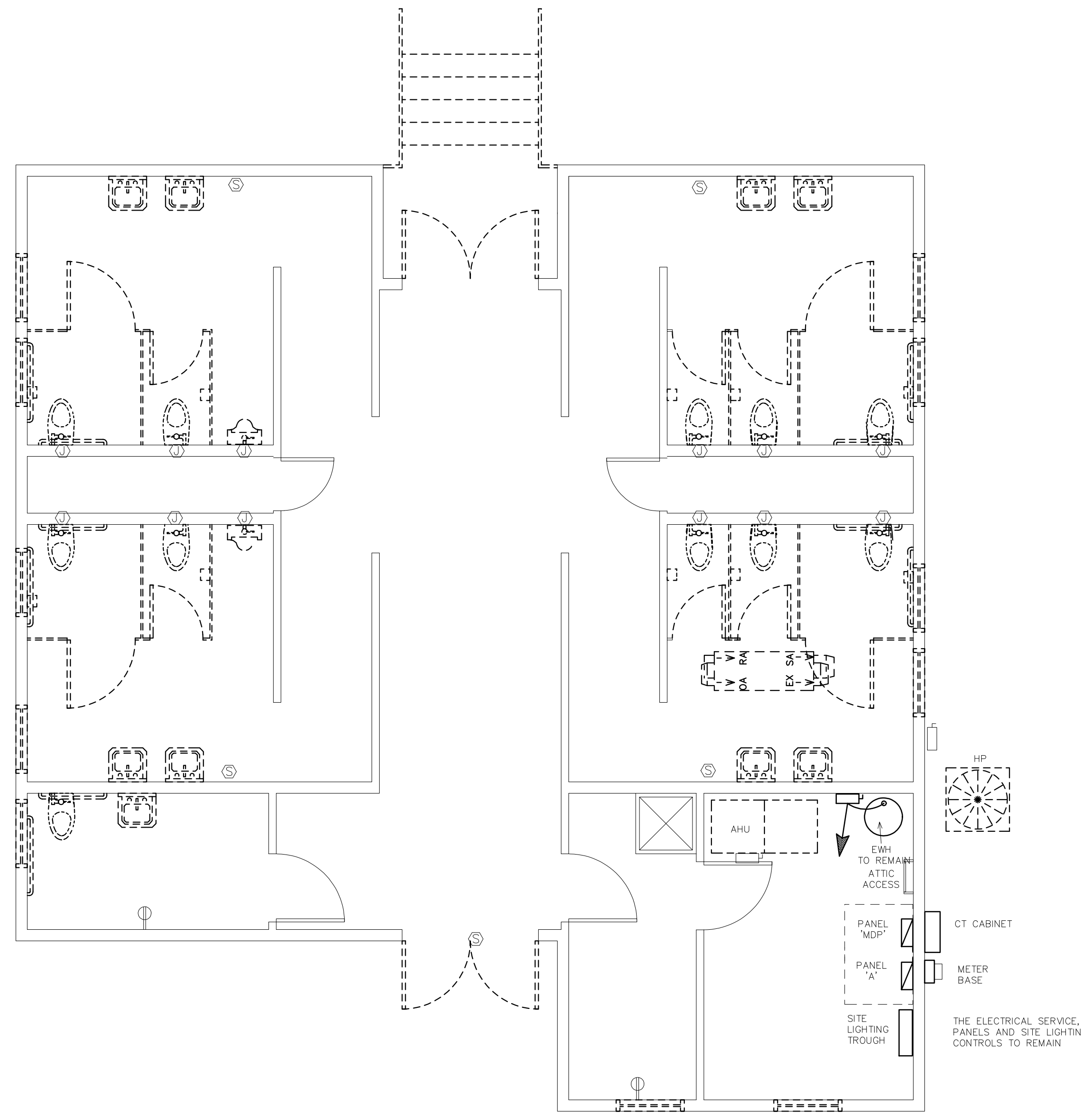
E2

PLOT DATE 8/11/17

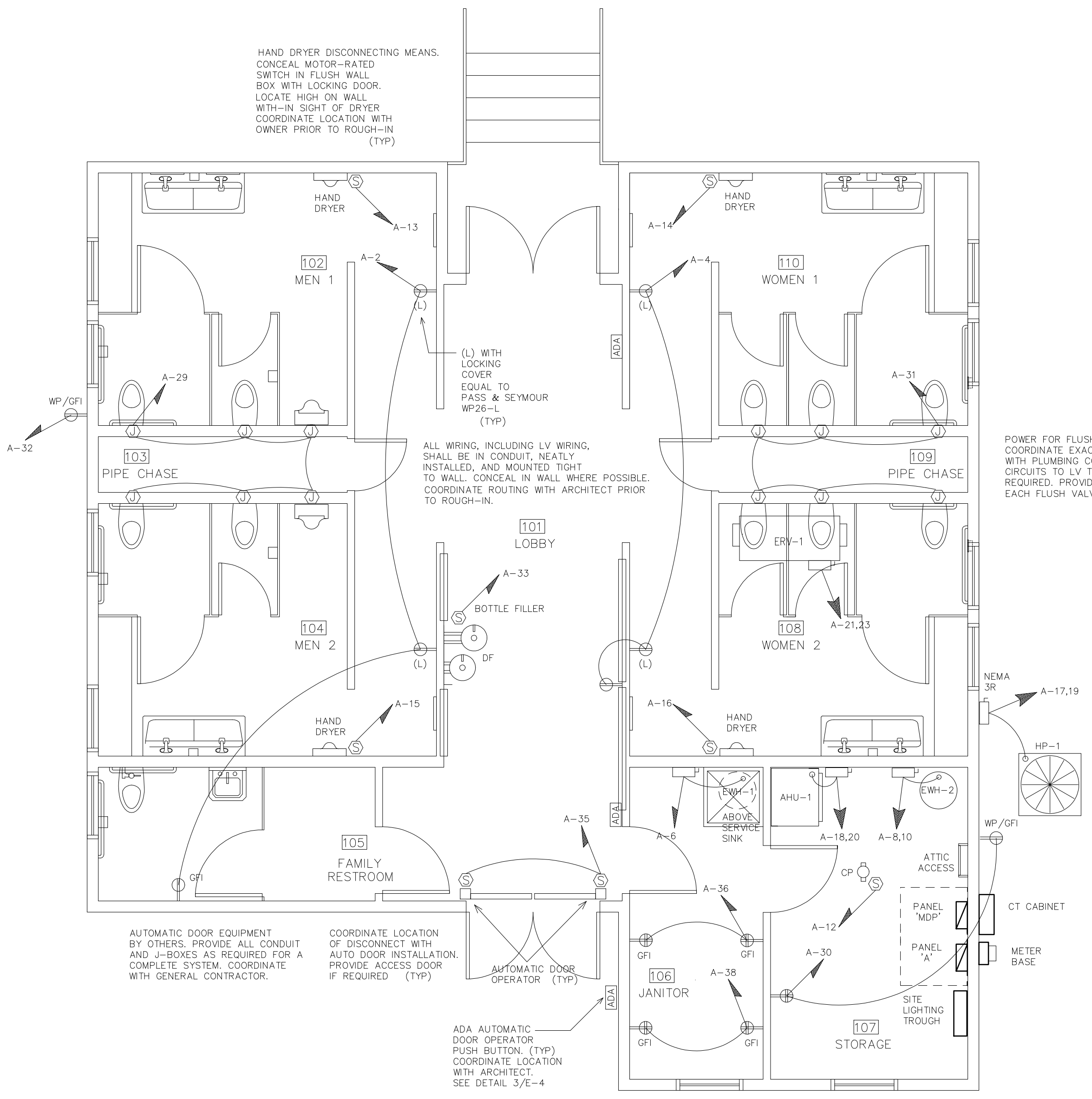
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NOTE:
THE EXISTING INFORMATION SHOWN ON THIS DRAWING IS FROM FIELD INVESTIGATION AND PREVIOUS PERMIT DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION. THE SUBMISSION OF A BID INDICATES ACCEPTANCE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

THE SCOPE OF DEMOLITION IS AS FOLLOWS--
REMOVE ALL DEVICES AS SHOWN. REFEED ANY DEVICES REMAINING DOWN LINE FROM REMOVED DEVICE.
REMOVE ALL WIRING AND CONDUITS BACK TO CONCEALED JUNCTION POINT.
REMOVE EXISTING FIRE ALARM SYSTEM.



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

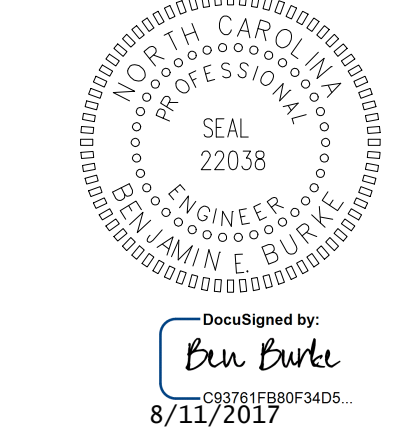


2 REVISED POWER PLAN
SCALE: 1/4" = 1'-0"

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STATE ID# 17-17533-01A
WBS ELEMENT 51213.031

PROJECT TITLE
CARTERET COUNTY
REST AREA
3409 ARENDELL STREET
MOREHEAD CITY, NORTH CAROLINA

PROJECT NO.
1604a

DRAWING TITLE
POWER PLAN

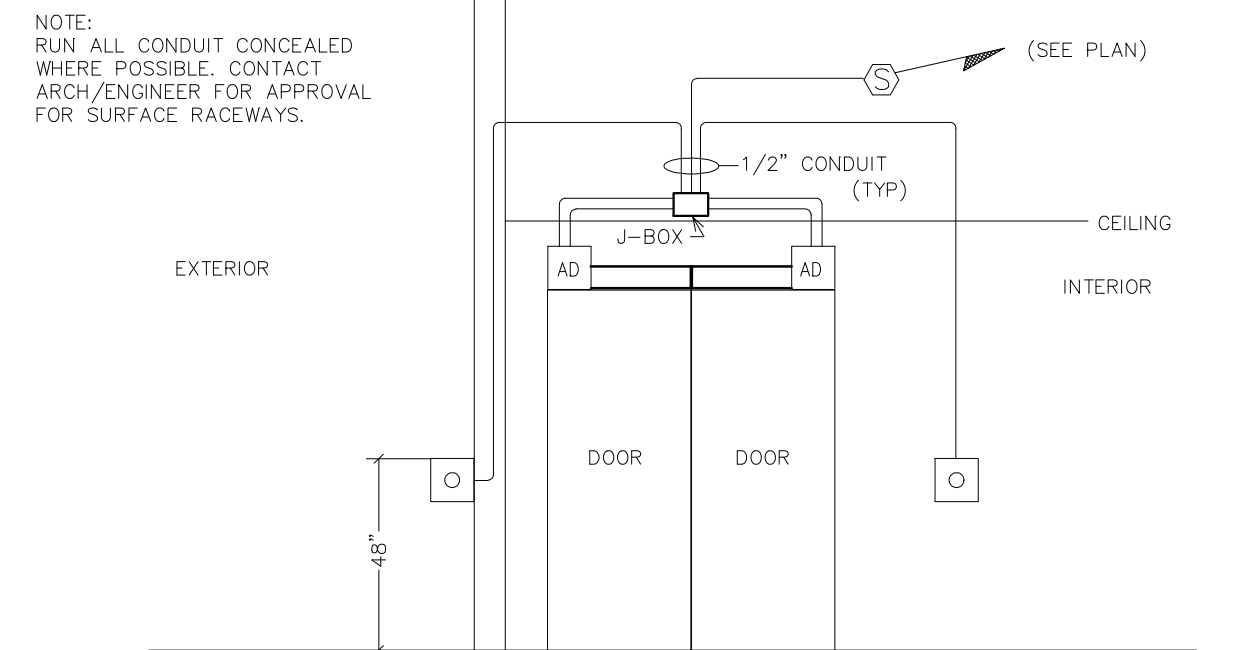


PLOT DATE 8/11/17

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Carteret City E4 EXISTING PANEL- 'A'		MAKE: WESTINGHOUSE		RATING: 120/240 1 PHASE 3 WIRE		400A MAIN CIRCUIT BREAKER		
		TYPE: PRL1		MOUNTING: SURFACE		EQUIPMENT GROUND BUS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
		MINIMUM AIC: VERIFY		SERVICE ENTRY RATED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				
LOAD SERVICE	CKT BRKR	WATTS PER PHASE A B	CKT NO	NEUTRAL A B	CKT NO	WATTS PER PHASE A B	CKT BRKR	LOAD SERVICE
LTS: MEN'S CHASE	20A	---	---	1	2	---	---	20A REC: MEN & WOMEN
LTS: WOMEN'S CHASE	20A	---	---	3	4	---	---	20A LTS: EMERGENCY & EXIT
LTS: COORIDOR & DOOR	20A	---	---	5	6	---	---	20A FIRE ALARM PANEL
LTS: ATTIC	20A	---	---	7	8	---	---	30A WATER HEATER
TOILET SENSORS	20A	---	---	9	10	---	---	
LTS: PORCH	20A	---	---	11	12	---	---	20A SPARE
HAND DRYER	20A	---	---	13	14	---	---	20A SPARE
HAND DRYER	20A	---	---	15	16	---	---	20A SPARE
HP	50A	---	---	17	18	---	---	50A SPARE
AHU-#1	80A	---	---	19	20	---	---	L-1
		---	---	21	22	---	---	30A L-2
SPACE		---	---	23	24	---	---	
SPACE		---	---	25	26	---	---	
SPACE		---	---	27	28	---	---	
SPACE		---	---	29	30	---	---	
INLINE FAN	20A	---	---	31	32	---	---	30A SPARE
SPARE	20A	---	---	33	34	---	---	20A AREA LIGHT CONTROL
SPARE	20A	---	---	35	36	---	---	20A SPARE
SPARE	20A	---	---	37	38	---	---	20A SPARE
SPARE	20A	---	---	39	40	---	---	20A SPARE
SPACE		---	---	41	42	---	---	20A SPARE
NOTES	SUB-TOTALS 'B'	---	---	41	42	---	---	20A SPARE
				400A BUS	---	---	---	SUB-TOTALS 'A'
				400A LUGS	---	---	---	SUB-TOTALS 'B'
				400A FEED	---	---	---	GRAND TOTAL
				VERIFY SIZE	--A	--A	---	AMPS/PHASE
								TOTAL CONNECTED LOAD

Carteret City E4 EXISTING PANEL- 'MDP'		MAKE: WESTINGHOUSE		RATING: 120/240 1 PHASE 3 WIRE		600A MAIN CIRCUIT BREAKER		
		TYPE: PRL4		MOUNTING: SURFACE		EQUIPMENT GROUND BUS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
		MINIMUM AIC: VERIFY		SERVICE ENTRY RATED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				
LOAD SERVICE	CKT BRKR	WATTS PER PHASE A B	CKT NO	NEUTRAL A B	CKT NO	WATTS PER PHASE A B	CKT BRKR	LOAD SERVICE
PANEL 'A'	400A	---	---	1	2	---	---	100A PANEL 'C'
		---	---	3	4	---	---	
SPARE	100A	---	---	5	6	---	---	SPACE
		---	---	7	8	---	---	SPACE
SPACE		---	---	9	10	---	---	SPACE
SPACE		---	---	11	12	---	---	SPACE
NOTES	SUB-TOTALS 'B'	---	---	11	12	---	---	100A PANEL 'C'
				600A BUS	---	---	---	SUB-TOTALS 'A'
				600A LUGS	---	---	---	SUB-TOTALS 'B'
				600A FEED	---	---	---	GRAND TOTAL
				VERIFY SIZE	--A	--A	---	AMPS/PHASE
								TOTAL CONNECTED LOAD



THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR AND DOOR INSTALLER PRIOR TO ROUGH-IN. PROVIDE ALL CONDUIT, JUNCTION BOXES, ETC AS REQUIRED FOR A COMPLETE INSTALLATION.

3 ADA DOOR CONTROL DETAIL
SCALE: NOT TO SCALE

Carteret City E4 REVISED PANEL- 'A'		MAKE: WESTINGHOUSE		RATING: 120/240 1 PHASE 3 WIRE		400A MAIN CIRCUIT BREAKER					
		TYPE: PRL1		MOUNTING: SURFACE		EQUIPMENT GROUND BUS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO					
		MINIMUM AIC: VERIFY		SERVICE ENTRY RATED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO							
LOAD SERVICE	CKT BRKR	WATTS PER PHASE A B	CKT NO	NEUTRAL A B	CKT NO	WATTS PER PHASE A B	CKT BRKR	LOAD SERVICE			
LTS: LOBBY, BATHROOM ENTRYWAYS	20A	455	---	1	2	540	---	20A REC: RESTROOM			
LTS: MEN'S BATH, FAMILY BATH	20A	224	---	3	4	540	---	20A REC: RESTROOM			
LTS: WOMEN'S BATH	20A	144	---	5	6	1650	---	20A EWH-1			
LTS: JANITOR, STORAGE, PIPE CHASE	20A	532	---	7	8	2250	---	30A EWH-2			
LTS: EXTERIOR	20A	74	---	9	10	2250	---	30A			
SPARE	20A	---	---	11	12	---	---	20A CIRC. PUMP			
HAND DRYER	20A	1500	---	13	14	1500	---	20A HAND DRYER			
HAND DRYER	20A	1500	---	15	16	1500	---	20A HAND DRYER			
HP-1	50A	3312	---	17	18	4188	---	50A AHU-1			
		3312	---	19	20	---	---	50A			
ERV-1	40A	2680	---	21	22	1500	---	30A L-1			
		2680	---	23	24	1500	---	30A L-2			
SPACE		---	---	25	26	1500	---				
SPACE		---	---	27	28	1500	---				
RESTROOM SENSORS	20A	600	---	29	30	540	---	20A REC: STORAGE, EXT			
RESTROOM SENSORS	20A	600	---	31	32	180	---	20A REC: EXT			
BOTTLE FILLER	20A	400	---	33	34	500	---	20A AREA LIGHT CONTROL			
AUTO DOORS	20A	1000	---	35	36	720	---	20A REC: JANITOR			
LTS: STORAGE BUILDING	20A	72	---	37	38	720	---	20A REC: JANITOR			
LTS: STORAGE BUILDING EXT	20A	97	---	39	40	---	---	20A SPARE			
SPACE		---	---	41	42	---	---	20A SPARE			
NOTES	SUB-TOTALS 'B'	9237	9945	41	42	14888	12878	SUB-TOTALS 'A'			
				400A BUS	---	---	---	SUB-TOTALS 'B'			
				400A LUGS	---	---	---	GRAND TOTAL			
				400A FEED	---	---	---	AMPS/PHASE			
				VERIFY SIZE	201A	190A	---				
								TOTAL CONNECTED LOAD			
NEC ALLOWABLE DEMAND FACTORS		DIVERSIFIED LOAD SUMMARY									
① DEMAND FACTORS PER NEC 220		LOAD TYPE		DEMAND FACTOR		A		B		TOTAL DIVERSIFIED LOAD	
② LARGEST OF: NEC TABLE 220.12 OR CONNECTED LOAD		GENERAL LIGHTING		125%		931		1066		1997	
③ NEC TABLE 220.56		TRACK LIGHTING		125%		---		---		---	
④ NEC 220.51		GENERAL USE RECEPTACLES		100%		1800		1440		3240	
⑤ NEC 220.43A, 200 VA/LINEAR FT		MOTORS AND EQUIPMENT		125%		3960		3960		7920	
⑥ NON-COINCIDENT LOADS, LARGEST OF THE TWO LOADS IS COUNTED		WATER HEATERS		125%		4875		2813		7688	
		KITCHEN EQUIPMENT		100%		---		---		---	
		FIX. ELEC. SPACE HEAT.		100%		3468		3468		6936	
		SHOW WINDOW LIGHTS		125%		---		---		---	
		SIGN		125%		---		---		---	
		MISC		100%		7500		8100		15600	
		TOTAL		100%		26078		24391		50469	
		TOTAL AMPS				217A		203A		-VOLT AMPS = 210A TOTAL AMPS	

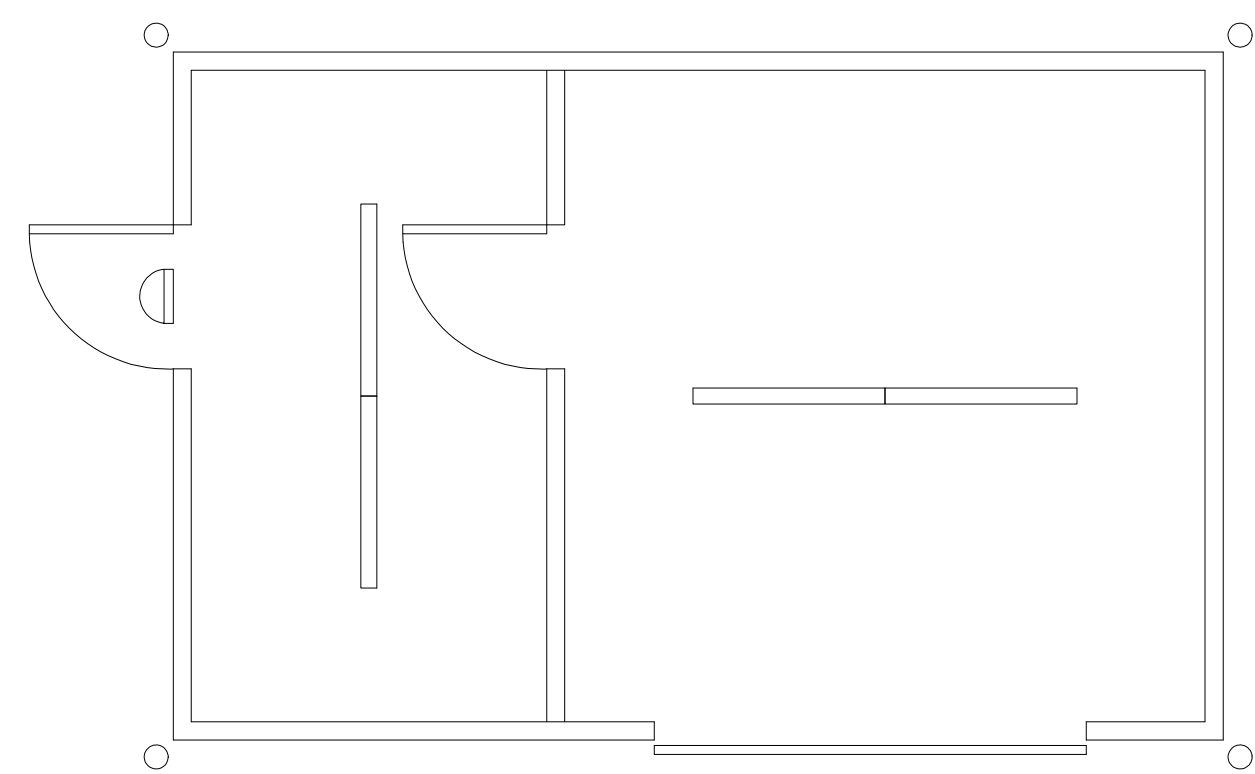
Carteret City E4 EQUIPMENT WIRING SCHEDULE						
EQUIPMENT	MCA	MOCP	VOLTS	PH	WIRE SIZE	
EWH-1	(1650W)	20A	120V	1	2-#12, 1-#12 GND IN 1/2" CONDUIT	
EWH-2	(4500W)	30A	240V	1	3-#8, 1-#10 GND IN 3/4" CONDUIT	
AHU-1	48.5A	50A	240V	1	3-#6, 1-#10 GND IN 1" CONDUIT	
HP-1	34.2A	50A	240V	1	3-#8, 1-#10 GND IN 3/4" CONDUIT	
ERV-1	27.9A	40A	240V	1	3-#8, 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.

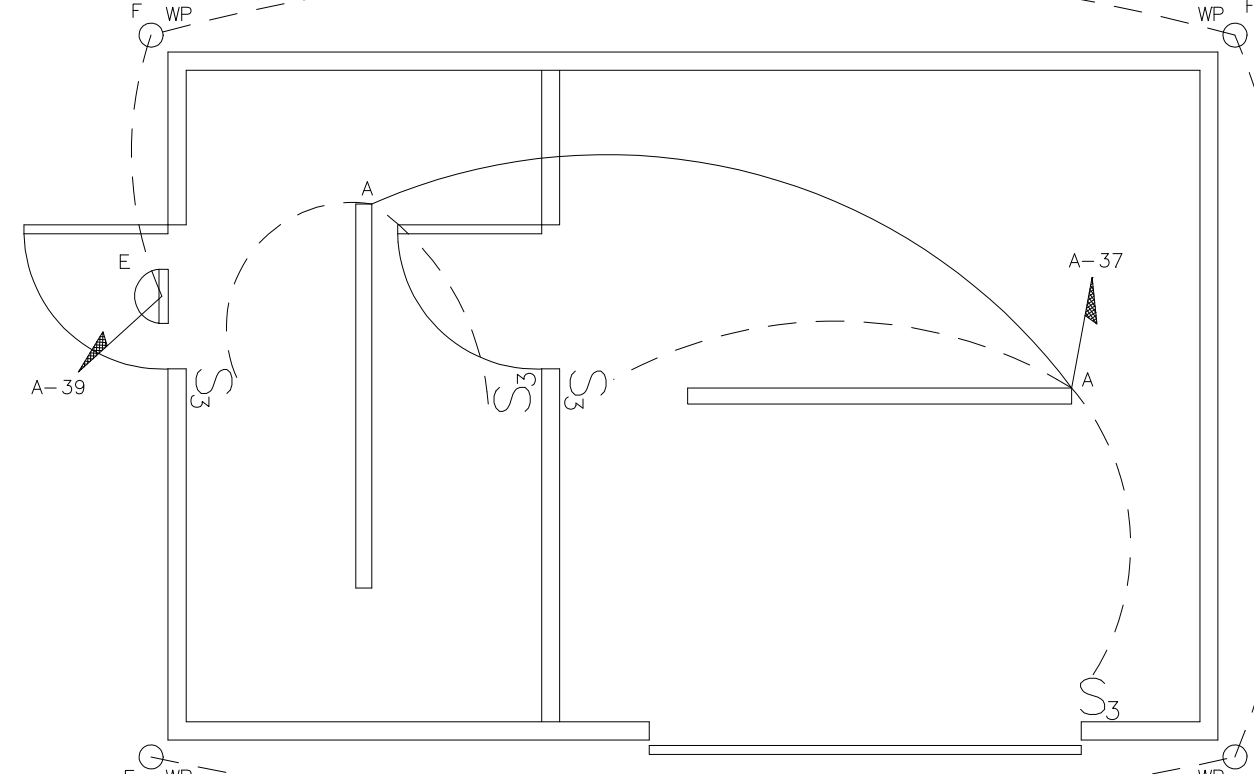
RISER WIRING SCHEDULE

- ① 600A: (2 PAIR) 3-#350 MCM IN (2) 2 1/2" CONDUIT(S)
- ② 100A: 3-#3, 1-#8 CU GND, IN 1 1/4" CONDUIT
- ③ #3 CU GND TO BUILDING STEEL, FOUNDATION STEEL AND METALLIC WATER MAIN AND #6 CU GND TO 10' X 5/8" DRIVEN GROUND ROD

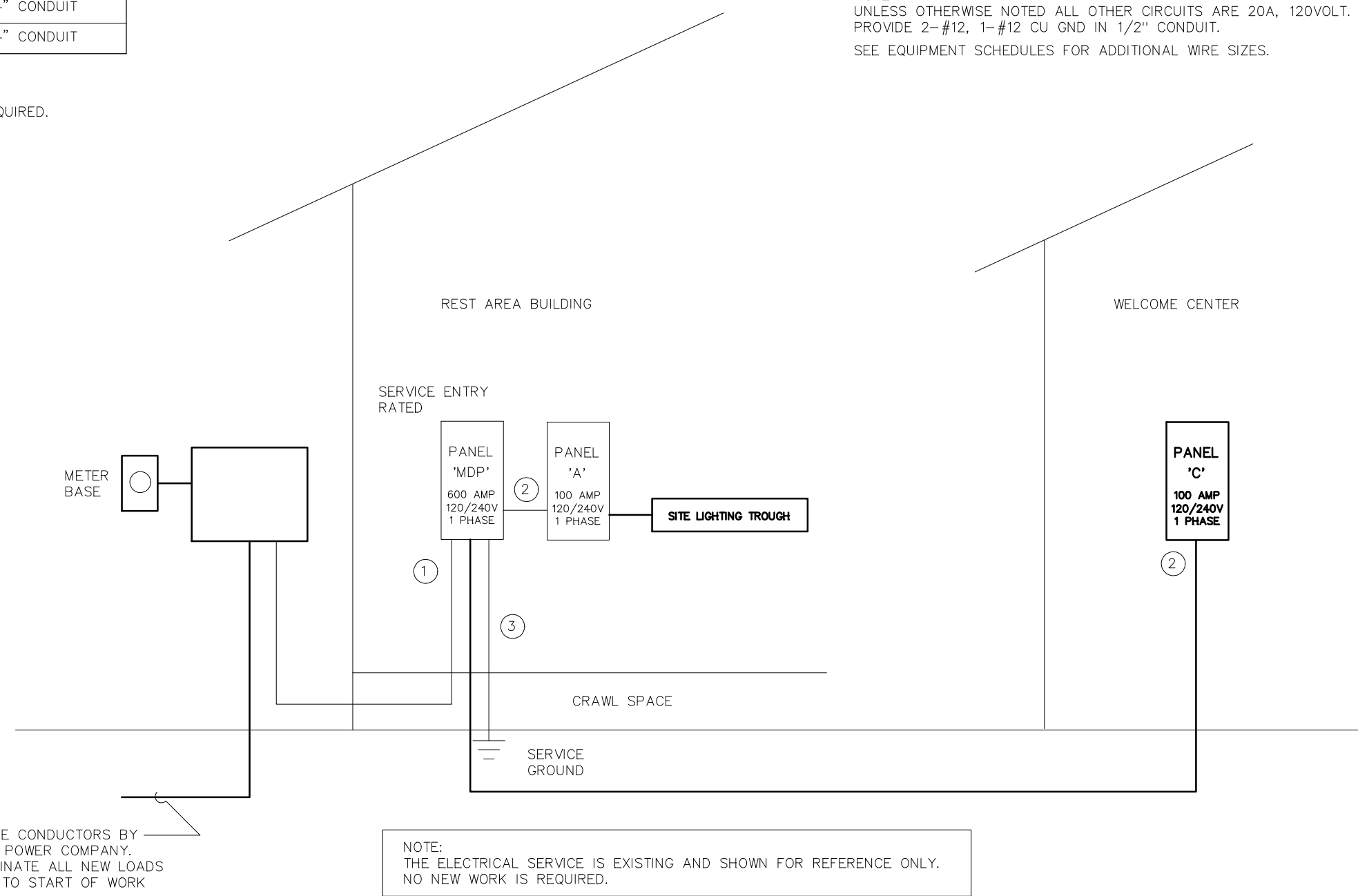
NOTE: UNLESS OTHERWISE NOTED ALL OTHER CIRCUITS ARE 20A, 120VOLT. PROVIDE 2-#12, 1-#12 CU GND IN 1/2" CONDUIT. SEE EQUIPMENT SCHEDULES FOR ADDITIONAL WIRE SIZES.



1 STORAGE - EXISTING LIGHTING
NOT TO SCALE



2 STORAGE - REVISED LIGHTING
NOT TO SCALE

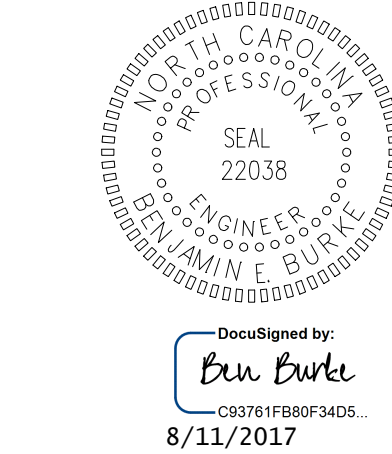


4 ELECTRICAL SERVICE RISER
NOT TO SCALE

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REST AREA
3409 ARENDELL STREET
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PROJECT NO.
1604a

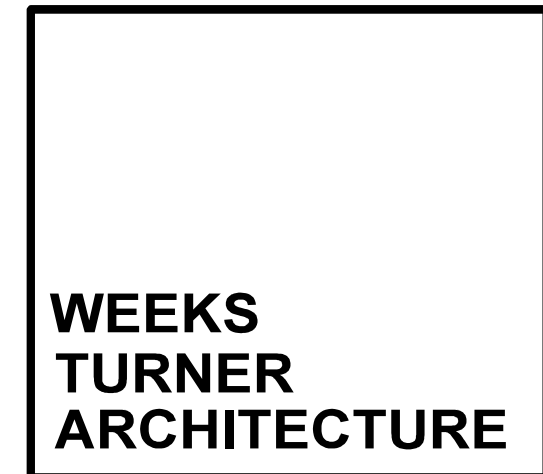
DRAWING TITLE
PANELS & RISER

E4

PLOT DATE 8/11/17

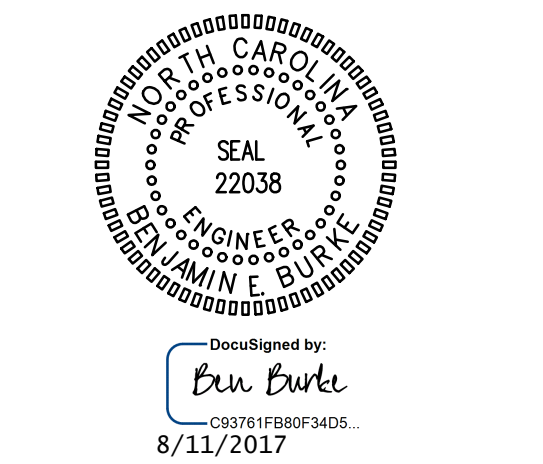
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WBS ELEMENT 51213.031

PROJECT TITLE
CARTERET COUNTY REST AREA
3409 ARENDELL STREET
MOREHEAD CITY, NORTH CAROLINA

PROJECT NO.
1604a

DRAWING TITLE
HVAC SCHEDULES

M1

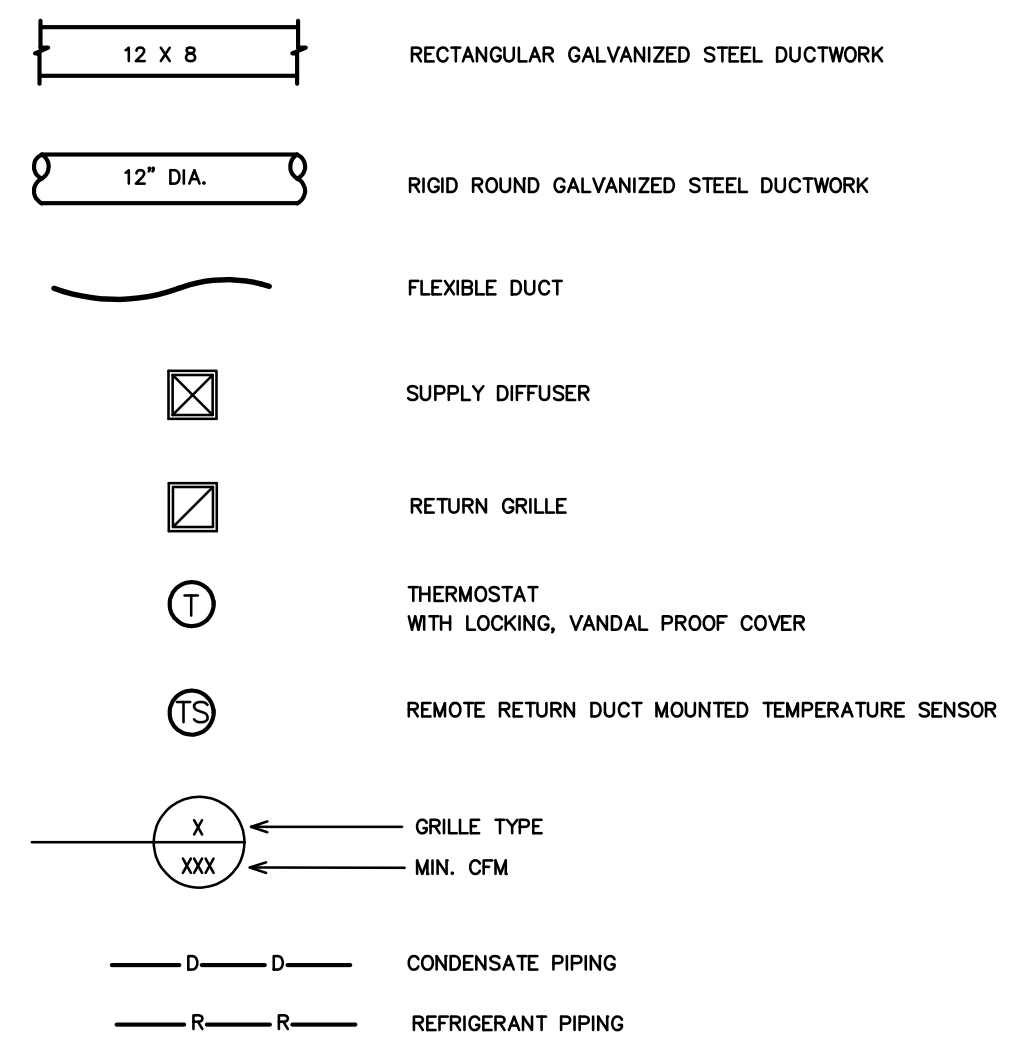
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GENERAL NOTES – MECHANICAL

- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE AND ALL LOCAL AND OTHER APPLICABLE CODES.
- ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR (MC).
- 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.
- THE LOCATION OF ALL DUCT, PIPING AND EQUIPMENT SHALL BE ADJUSTED TO ACCOMMODATE ANTICIPATED OR ENCOUNTERED INTERFERENCES.
- THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS REFER TO THE ARCHITECTURAL PLANS.
- 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.
- 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. THERE ARE NO RATED WALLS PENETRATED IN THIS HVAC UPFIT.
- INSTALL FLEXIBLE CONNECTORS ON SUPPLY AND RETURN DUCTWORK AHU. ALL MECHANICAL EQUIPMENT SHALL OPERATE FREE OF OBJECTIONAL NOISE AND VIBRATION.
- 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. PROVIDE SPIN IN STARTING COLLARS WITH DAMPERS AT ALL SUPPLY TAKEOFFS.
- DUCT DIMENSIONS ARE SHOWN INSIDE CLEAR. COORDINATE EXACT SIZE WITH SPACE AVAILABLE. DUCT INSULATION SHALL BE 2" FIBERGLASS EXTERIOR DUCT INSULATION WITH FOIL FACING.
- THERMOSTAT, WIRING AND CONDUIT ARE TO BE FURNISHED BY THE MC. MOUNT THERMOSTAT 48" ABOVE THE FINISHED FLOOR. COORDINATE LOCATION WITH OWNER. PROVIDE AUTO CHANGEOVER THERMOSTAT WITH UNIT OFF POSITION AS MINIMUM. PROVIDE AN EMERGENCY SHUT-OFF SWITCH ABOVE THE THERMOSTAT. PROPERLY LABEL SHUT-OFF SWITCH.
- 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.
- COORDINATE DIFFUSER AND CEILING EXHAUST GRILLE LOCATIONS WITH LIGHTS AND GRID. COORDINATE MOUNTING FRAME WITH CEILING TYPE.
- THE M.C. SHALL COORDINATE WITH AND PROVIDE EQUIPMENT SPEC. SHEETS TO THE GENERAL AND ELECTRICAL CONTRACTORS FOR REVIEW PRIOR TO ORDERING EQUIPMENT.
- PROPERLY SUPPORT FLEXIBLE DUCT, MINIMUM 75% DEFORMATION. PROVIDE SHEET METAL ELBOWS AT ALL 90 DEGREE BENDS.
- ALL DUCT JOINTS SHALL BE SEALED AIRTIGHT WITH FIBER ENPREGNATED MASTIC OR HARDCAST AND TAPE.
- SUPPORT AHU, EXHAUST FANS, HEAT WHEEL AND ALL DUCTWORK, ETC. FROM STRUCTURE. PIPE STRAPPING WILL NOT BE ALLOWED.

LEGEND – MECHANICAL



MECHANICAL SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE:

Prescriptive Energy Cost Budget

Thermal Zone 3A

Exterior Design Conditions

winter dry bulb 23 F
summer dry bulb 94 F

Interior Design Conditions

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

Building Heating Load 67,300 BTU/hr
-47,300 BTU/hr (ERV reduction)
20,000 BTU/hr

Building Cooling Load 69,500 BTU/hr
-33,700 BTU/hr (ERV wheel reduction)
35,800 BTU/hr

Mechanical Spacing Conditioning System

Unitary – The building is served by (1) one 5 ton split system heat pump unit with (1) one energy recovery ventilator.

Boiler – Not applicable to this project.
Chiller – Not applicable to this project.

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

Equipment schedules with motors.
Motors used on this project are included in the efficiency rating of the unit. See drawings for efficiencies.

AIR DISTRIBUTION SCHEDULE

MARK	* MANUFACTURER	MODEL NO.	SIZE	FACE SIZE	MATERIAL	SERVICE	NOTES
A	CARNES	SASM-40 W/ ROUND NECK OPTION	6" DIA	-	ALUMINUM	SUPPLY	COLOR BY ARCHITECT GYP CEILING MOUNT
B	CARNES	SASM-40 W/ ROUND NECK OPTION	8" DIA	-	ALUMINUM	SUPPLY	COLOR BY ARCHITECT GYP CEILING MOUNT
C	CARNES	SASM-40 W/ ROUND NECK OPTION	10" DIA	-	ALUMINUM	SUPPLY	COLOR BY ARCHITECT GYP CEILING MOUNT
RA	CARNES	RAJBH	14" X 14"	16" X 16"	ALUMINUM	RETURN	COLOR BY ARCHITECT GYP CEILING MOUNT
RB	CARNES	RAJBH	14" X 6"	16" X 8"	ALUMINUM	RETURN	COLOR BY ARCHITECT DUCT MOUNT
EA	CARNES	RATAF	12" X 12" 10" ROUND NECK **	14" X 14"	ALUMINUM	EXHAUST	COLOR BY ARCHITECT GYP CEILING MOUNT
EB	CARNES	RATAF	10" X 10" 8" ROUND NECK **	12" X 12"	ALUMINUM	EXHAUST	COLOR BY ARCHITECT GYP CEILING MOUNT

COORDINATE BORDER TYPE WITH THE CEILING/WALL TYPE. SEE ARCH SHEETS PROVIDE DUCT TRANSITIONS AS REQUIRED.
* OR APPROVED EQUAL BY TUTTLE & BAILEY, OR METALAIRE
** PROVIDE SQUARE TO ROUND DUCT TRANSITION ON TOP OF GRILLE.
*** PROVIDE INSULATION PACKAGE FOR TOP OF ALL DIFFUSERS AND GRILLES

HVAC EQUIPMENT SCHEDULE

HVAC SYSTEM #1	
AHU #1 DIRECT EXPANSION FAN COIL UNIT	CARRIER MODEL #FX4DNB061, 4 WAY, MULTIPOISE FAN COIL UNIT, 8 KW HEATER. NOMINAL CAPACITY = 60,000 BTUH. 1800 CFM NOMINAL. PROVIDE HARD SHUT-OFF TXV VALVE. 5 TON NOMINAL. PROVIDE PROGRAMMABLE THERMOSTAT AND FILTER RACK WITH HINGED DOOR. 3/4HP, 6.0A MOTOR FLA, 28.9A HEAT FLA, 240V, 1 PH, 48.5A MCA, 50A MOCF AHU & HEAT.
HP #1 OUTDOOR HEAT PUMP UNIT	CARRIER MODEL #25HCCS60A0030, 5 TON OUTDOOR HEAT PUMP UNIT, 15 SEER, PROVIDE CYCLE PROTECTOR, LOW PRESSURE SWITCH, CRANKCASE HEATER, 240 VOLT, 1 PHASE. COMP 26.4A RLA, FAN 1.2A FLA, OUTDOOR HEAT PUMP 34.2A MCA, 50A MOCF.

* OR APPROVED EQUAL
NOTE: 1. AHU HEATER KW RATINGS ARE AT 240 VOLTS.
2. PROVIDE OUTDOOR TSTAT TO PREVENT ELECTRIC HEAT OPERATION WHEN HEAT PUMP CAN MEET THE HEATING LOAD
3. ERV-1 SHALL RUN AT ALL TIMES WHEN AIR HANDLING UNIT IS RUNNING. AHU-1 FAN SHALL RUN AT ALL TIMES.

ENERGY RECOVERY UNIT SCHEDULE

EQUIP. NUMBER	MODEL NO.	FLOW	FANS / MOTORS						THERMAL PERFORMANCE								NOTES:		
			STATIC PRESSURE (EXTERNAL)	FAN MOTORS (FOR UNIT SINGLE POINT)	FLA (FOR UNIT SINGLE POINT)	VOLTS/ PHASE/ HZ	MCA	FUSE/CB MAX	DESIGN CONDITIONS				ERV OUTLET CONDITIONS					ENERGY RECOVERY (THERMAL) CAPACITY	
									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)			
ERV-1	MICROMETL FWH22D7900HEF	1100 CFM	0.50IN H ₂ O (2) FOR FANS	22.33 A	240V 1 PH 60 HZ	27.91	40	SUMMER	WINTER	SUMMER	WINTER	SUMMER	WINTER	TOTAL	TOTAL	ALL			

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

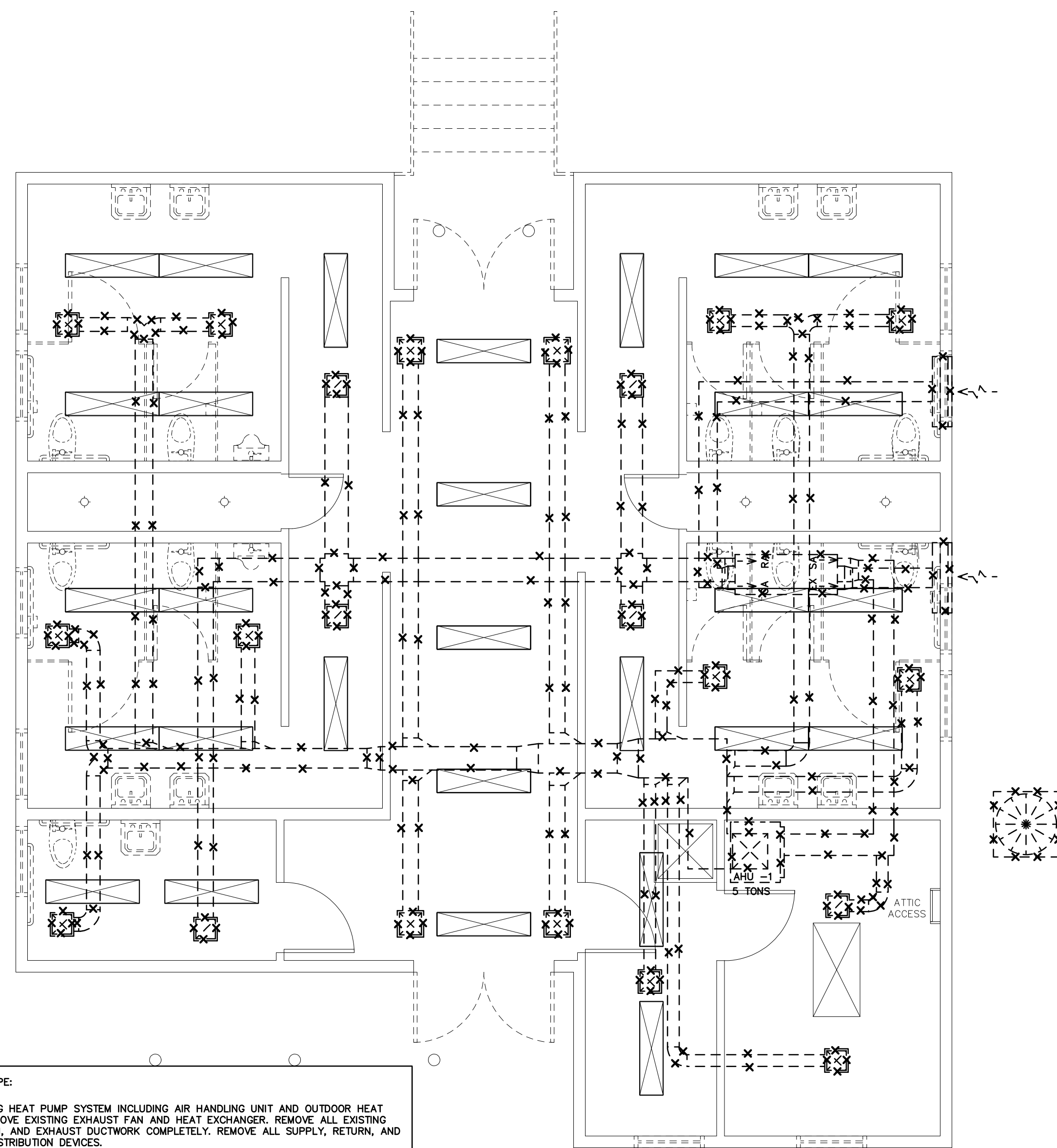
OUTDOOR AIR CALCULATIONS

OUTDOOR VENTILATION AIR PROVIDED PER TABLE 403.3, 2012 NORTH CAROLINA STATE BUILDING CODE: MECHANICAL CODE.

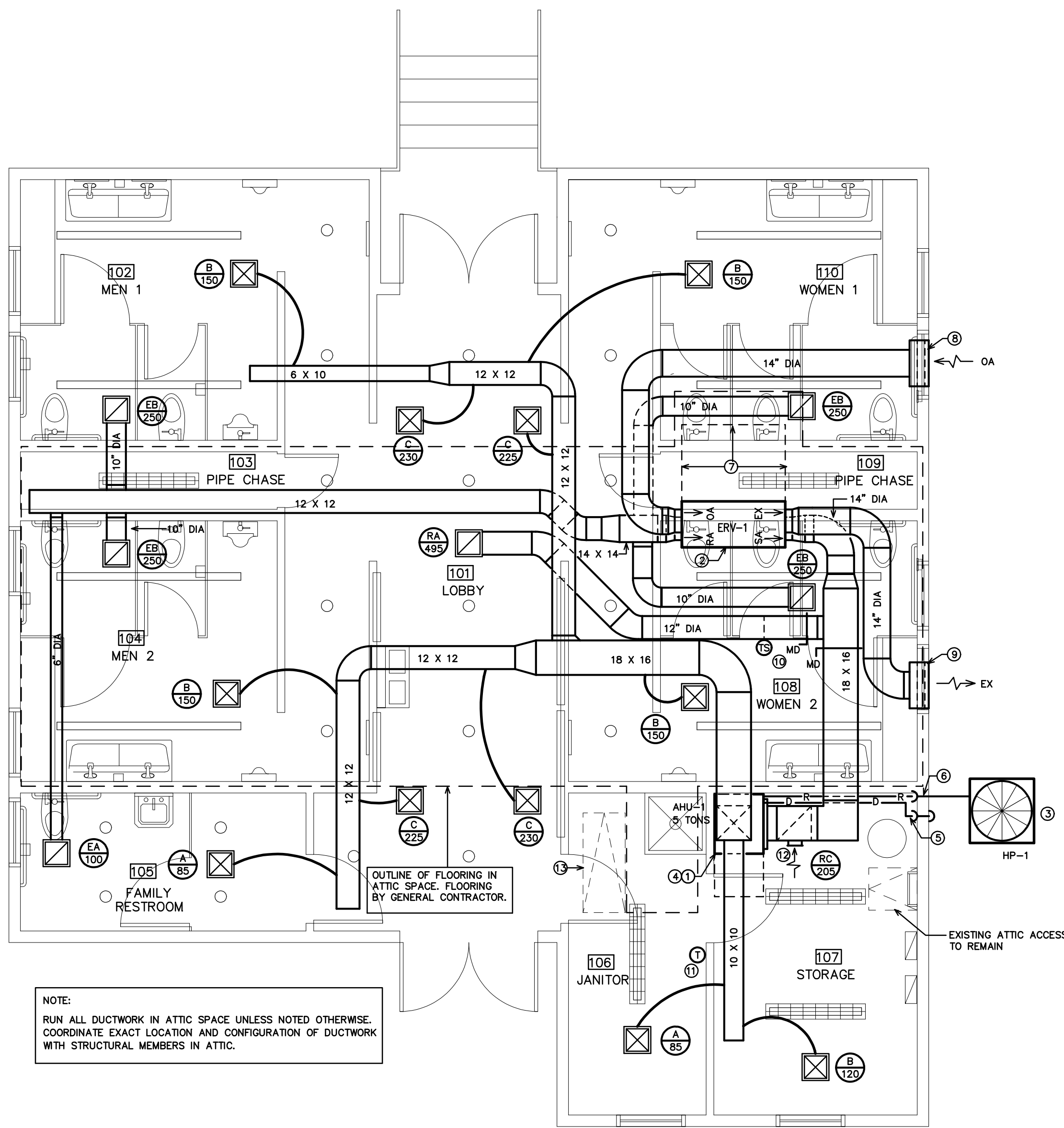
APPLICATION	CFM/FLUSHING FIXTURE
TOILET ROOMS	70 CFM EACH
13 FLUSHING FIXTURES X 70 CFM = 910 CFM 100 CFM EXHAUST PROVIDED BY 10 ERV	
APPLICATION	CFM/SQ.FT.
CORRIDORS/UTILITIES	0.06 CFM/SQ.FT.
400 SQ. FT. X 0.06 CFM/SQ.FT. = 24 CFM	
APPLICATION	CFM/SQ.FT.
STORAGE	0.12 CFM/SQ.FT.
215 SQ. FT. X 0.12 CFM/SQ.FT. = 26 CFM	
TOTAL OUTSIDE AIR REQUIRED – 960 CFM TOTAL OUTSIDE PROVIDED – 1000 CFM AHU-1 / ERV-1 = 100 CFM PROVIDED	

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



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

- KEY NOTES FOR 2/M2
- ① VERTICAL AIR HANDLING UNIT MOUNTED ON FLOOR. SEE DETAIL 1/M3
 - ② ERV IN ATTIC MECHANICAL SPACE. SEE DETAIL 2/M3.
 - ③ HEAT PUMP UNIT MOUNTED ON A 4" THICK "POURED IN PLACE" CONCRETE PAD.
 - ④ PROVIDE DRAIN PAN UNDER AHU FOR THE FULL LENGTH. PROVIDE FLOAT SWITCH IN PAN FOR OVERFLOW. WIRE TO SHUT DOWN UNIT.
 - ⑤ RUN PVC CONDENSATE DRAIN TO THE EXTERIOR. INSULATE THE ENTIRE LENGTH. TURN DOWN INTO THE PLANTING AREA.
 - ⑥ RUN THE REFRIGERANT LINES THROUGH THE EXTERIOR WALL. SEAL WALL PENETRATION. PAINT ALL EXPOSED, EXTERIOR INSULATION WITH UV RESISTANT PAINT.
 - ⑦ MANUFACTURERS' REQUIRED SERVICE CLEARANCE FOR ERV.
 - ⑧ OUTSIDE AIR INTAKE LOUVER MOUNTED ON GABLE END OF BUILDING. SEE ARCHITECTURAL ELEVATIONS FOR EXACT LOUVER LOCATION. LOUVER SHALL BE 10'-0" MIN FROM ANY EXHAUST DISCHARGE. LOUVER SHALL EQUAL TO CARNES MODEL FSWC HURRICANE LOUVER. SIZE, 30" X 30". COLOR SELECTED BY ARCHITECT. PROVIDED & INSTALLED BY GC. MC TO COORDINATE WITH GC AND PROVIDE DUCT CONNECTION AS REQUIRED.
 - ⑨ EXHAUST AIR LOUVER MOUNTED ON GABLE END OF BUILDING. SEE ARCHITECTURAL ELEVATIONS FOR EXACT LOUVER LOCATION. LOUVER SHALL BE 10'-0" MIN FROM ANY OUTSIDE AIR INTAKE. LOUVER SHALL EQUAL TO CARNES MODEL FSWC HURRICANE LOUVER. SIZE, 30" X 30". COLOR SELECTED BY ARCHITECT. PROVIDED & INSTALLED BY GC. MC TO COORDINATE WITH GC AND PROVIDE DUCT CONNECTION AS REQUIRED.
 - ⑩ REMOTE DUCT MOUNTED TEMPERATURE SENSOR.
 - ⑪ WALL MOUNTED THERMOSTATS. MOUNT AT 48" AFF.
 - ⑫ RETURN AIR GRILLE MOUNTED ON SIDE OF VERTICAL RETURN AIR DUCT.
 - ⑬ NEW CEILING ATTIC ACCESS BY GENERAL CONTRACTOR. ACCESS SHALL BE SIZED TO ALLOW FOR NEW ERV INSTALLATION AND REMOVAL.

NOTE:
THE EXISTING INFORMATION SHOWN ON THIS DRAWING 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.

STATE ID# 17-17533-01A
WBS ELEMENT 51213.031

PROJECT TITLE
**CARTERET COUNTY
REST AREA**
3409 ARENDELL STREET
MOREHEAD CITY, NORTH CAROLINA

PROJECT NO.
1604a

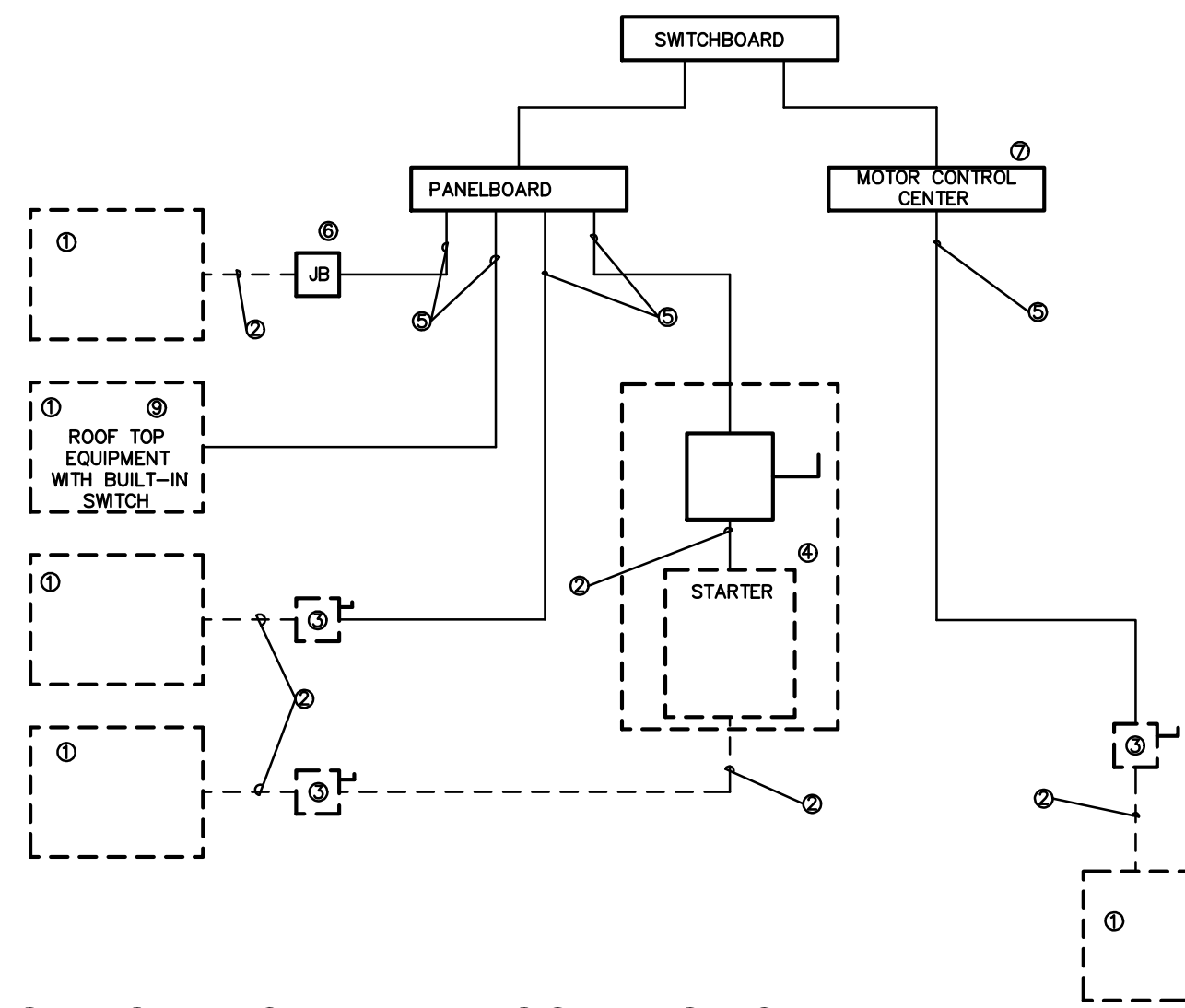
DRAWING TITLE
HVAC PLANS

M2

PLOT DATE 8/11/17

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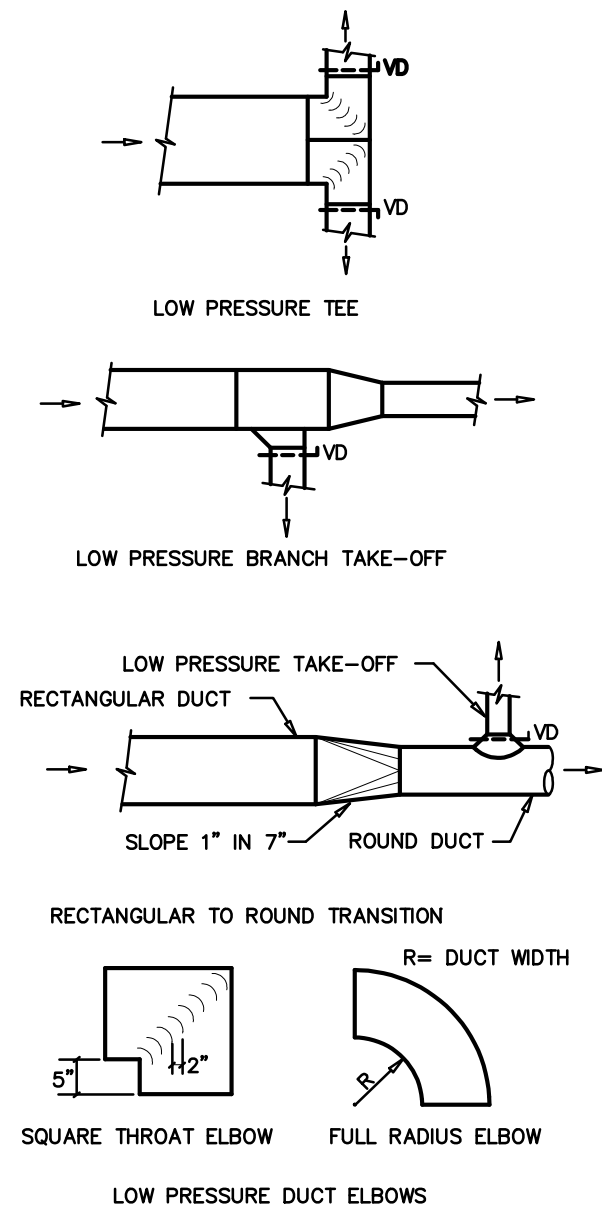
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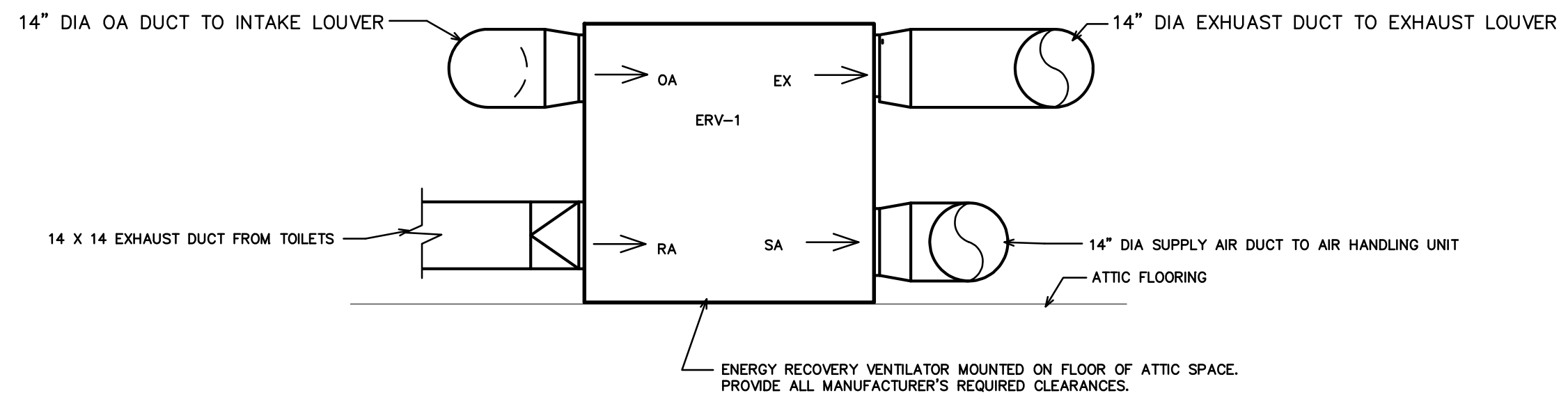
4 ELECTRICAL EQUIPMENT CONNECTION
NOT TO SCALE

KEY NOTES FOR ELECTRICAL CONNECTION DRAWING 1/M1

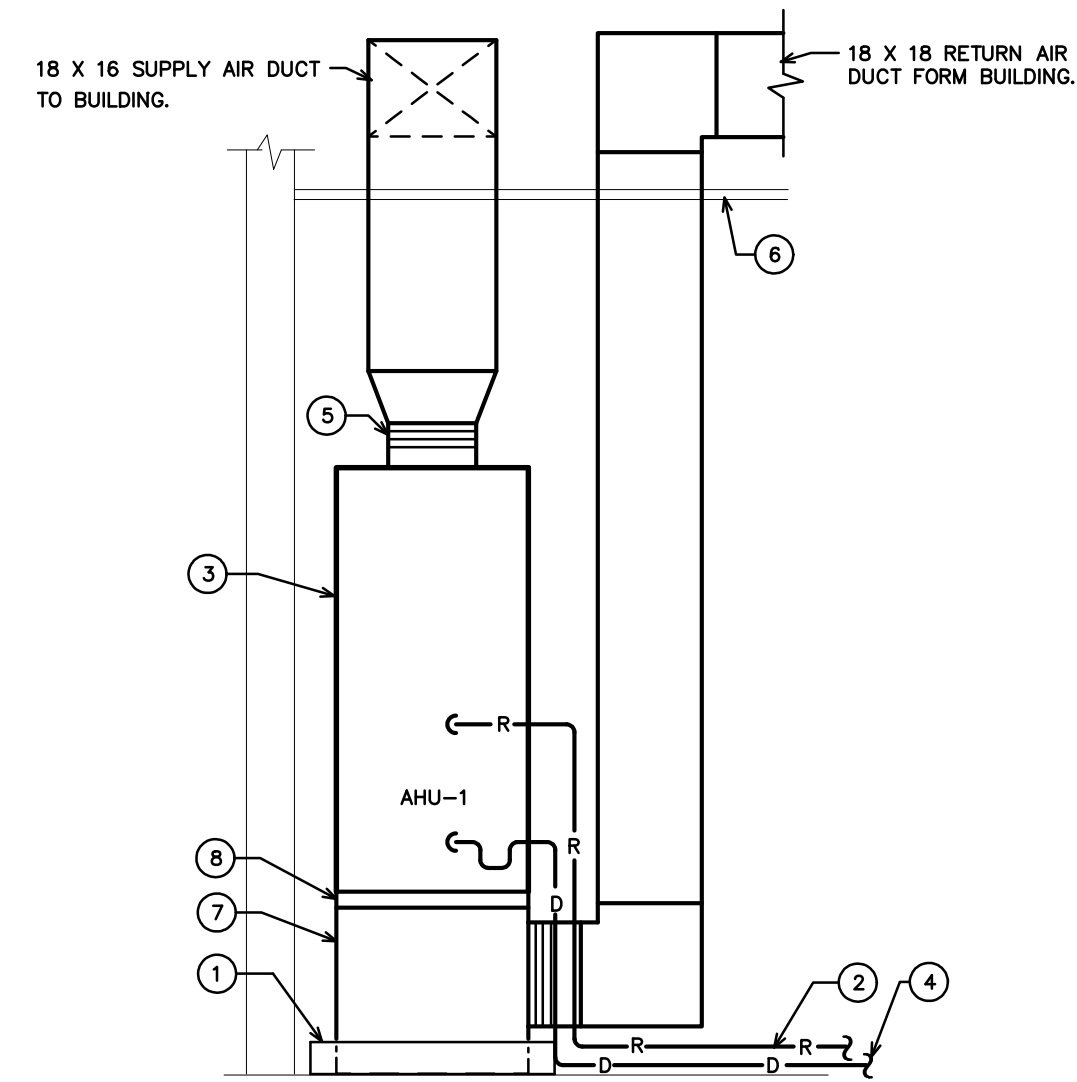
- ① EQUIPMENT OF TRADES OTHER THAN ELECTRICAL.
- ② CONDUIT & WIRING BY HVAC PLUMBING CONTRACTOR, OR OTHER TRADES
- ③ IF AN ADDITIONAL DISCONNECT IS REQUIRED BY NEC, IT SHALL BE PROVIDED AND INSTALLED BY THE EQUIPMENT CONTRACTOR.
- ④ A COMBINATION STARTER OR VFD MAY BE USED IN LIEU OF A SEPARATE DISCONNECT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



3 DUCT CONSTRUCTION DETAILS
NOT TO SCALE



2 ENERGY RECOVERY VENTILATOR (ERV) DETAIL
SCALE: NOT TO SCALE



1 AIR HANDLING UNIT DETAIL
SCALE: NOT TO SCALE

KEY NOTES FOR 1/M3

- ① GALVANIZED STEEL DRAIN PAN. PROVIDE FLOAT SWITCH TO SHUT-DOWN UNIT.
- ② REFRIGERANT LINE SET, SIZED PER MANUFACTURER'S INSTRUCTIONS RUN TO OUTDOOR HEAT PUMP UNIT AT GRADE.
- ③ VERTICAL AIR HANDLING UNIT MOUNTED ON FLOOR. PROVIDE ALL MANUFACTURER'S REQUIRED CLEARANCES.
- ④ RUN CONDENSATE PIPE TO EXTERIOR. INSULATE ENTIRE LENGTH WITH CLOSED CELL INSULATION.
- ⑤ FLEXIBLE CONNECTIONS ON ALL DUCT CONNECTIONS TO EQUIPMENT. (TYPICAL).
- ⑥ FINISH CEILING.
- ⑦ RETURN AIR PLENUM ON BOTTOM OF AIR HANDLING UNIT FULL SIZE OF RETURN AIR OPENING ON UNIT.
- ⑧ FACTORY FILTER SECTION WITH HINGED DOOR.

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DRAWING TITLE
HVAC DETAILS

M3

PLOT DATE 8/11/17

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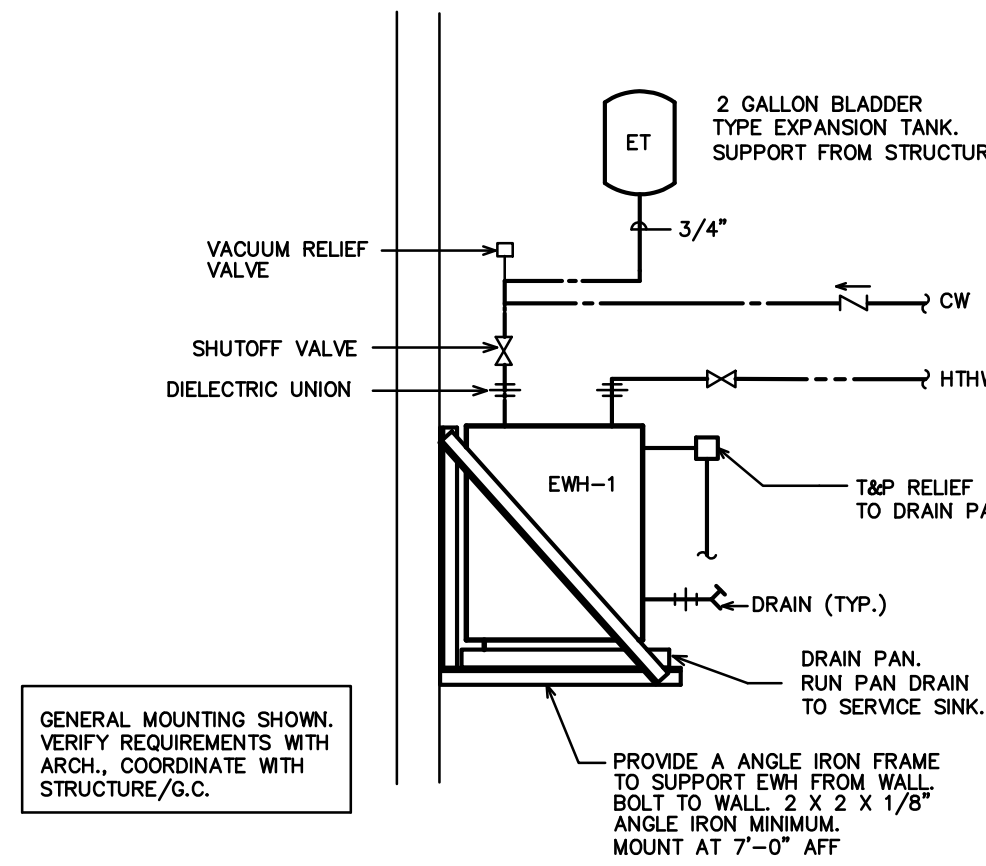
PLUMBING FIXTURE SCHEDULE *			
MARK	DESCRIPTION	ALTERNATE MANUFACTURER/MODEL	ALTERNATE MANUFACTURER/MODEL
WC1	WATER CLOSET (FLOOR MOUNT TOP SPUD) AMERICAN STANDARD "MADERA FLOWISE" #3461.001, ELONGATED BOWL, 1.28 GPF, VITREOUS CHINA, AND 1 1/2" TOP SPUD, ADA COMPLIANT. PROVIDE OPEN FRONT SEAT, AND SENSOR 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 HB-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, AND 1 1/2" BACK SPUD. WC TO BE ADA COMPLIANT. PROVIDE OPEN FRONT SEAT, AND SENSOR W/ MANUAL OVERRIDE FLUSH VALVE, EQUAL TO SLOAN OPTIMA 140-1.28-ES-S (AC POWERED) FLUSH VALVE.	ZURN Z5647-BWL FIXTURE, ZURN #ZEMS6152AV-HET, 1.28 GPF VALVE.	FIXTURE--NO 3RD CHOICE AVAILABLE. HYDROTEK H-8CB-128, 1.28 GPF VALVE.
WC3	WATER CLOSET (WALL MOUNT BACK SPUD) AMERICAN STANDARD "AFWALL FLOWISE" #3353.128, ELONGATED BOWL, 1.28 GPF, VITREOUS CHINA, AND 1 1/2" BACK SPUD. WC3 TO BE ADA COMPLIANT WHERE REQUIRED. PROVIDE OPEN FRONT SEAT, AND SENSOR W/ MANUAL OVERRIDE FLUSH VALVE, EQUAL TO SLOAN OPTIMA MODEL 152-1.28-ES-S (AC POWERED) FLUSH VALVE. CARRIER SHALL BE ZURN 4" ADJUSTABLE VERTICAL NO HUB #Z1204-N4-X W/HEAVY-DUTY 500 LB. REAR ANCHOR.	ZURN #Z5617 FIXTURE. ZURN #ZEMS6140AV FLUSH VALVE. JAY R. SMITH #230 SERIES CARRIER.	KOHLER KINGSTON #K-4329 FIXTURE. HYDROTEK H-8000C-CB FLUSH VALVE. JOSAM STD. 4" NO HUB, 2" VENT CARRIER.
TPV	TRAP PRIMER VALVE PPP INC. MODEL # PR-500, 1/2" INLET, 1/2" OUTLET	JOSAM #88300.	WATTS #A200.
EWH-1	ELECTRIC WATER HEATER #1 (PROVIDES HTHW) A.O. SMITH MODEL EJC-10, 10 GALLON, 1,650 WATT, 3/4" INLET AND OUTLET, 120V. AO SMITH MODEL #PMC-2 EXPANSION TANK.	RHEEM #B1VP10S. AMTROL ST-5-C EXPANSION TANK.	BRADFORD WHITE #M-1-10U6SS. STATE ETC-2X EXPANSION TANK.
EWH-2	ELECTRIC WATER HEATER #2 (PROVIDES HTHW/LTHW) AO SMITH WATER HEATER MODEL #DEN-52, 50 GALLONS, 4500 WATT, 240 VOLT, NON-SIMULTANEOUS DUAL ELEMENTS, 3/4" INLET/OUTLET, AO SMITH MODEL #PMC-2 EXPANSION TANK.	BRADFORD WHITE #LD-50R3-3. AMTROL ST-5-C EXPANSION TANK.	STATE #ES6-50-DORT. STATE ETC-2X EXPANSION TANK.
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.
UR	URINAL AMERICAN STANDARD "WASHBROOK" #5515.001, 1.0 GPF, VITREOUS CHINA, 3/4" BACK SPUD, AND SENSOR W/ MANUAL OVERRIDE FLUSH VALVE SLOAN #195-1.0-ES-S-OR (AC POWERED). ADA COMPLIANT.	ZURN #5760 WITH ZURN ZEMS6195AV-OB FLUSH VALVE.	TOTO #UT104EV WITH TOTO #TEU2LN11 FLUSH VALVE.
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 FAUCET. SINK MODEL FOR SINGLE CENTER HOLE.	KOHLER GREENWICH #K-2032 WITH HYDROTEK 7000SLE SOLAR SENSOR FAUCET.	ELJER MURRAY II #051-0244 WITH TOTO TEL36S10 SOLAR SENSOR FAUCET.
L2	2- STATION LAVATORY (ACCESSIBLE) SLOAN SLOANSTONE TWO STATION LAVATORY #ELS-72275, 2 DRAINS W/GRID STRAINERS, ADA COMPLIANT. COLOR MWN WALNUT (VERIFY). FURNISH WITH SLOAN EAF-275 SOLAR POWERED FAUCETS.	BRADLEY TERREON ELX-2A WITH JUST JSG-7000 SOLAR SENSOR FAUCETS.	WILLOUGHBY MODEL WAW-232-DMF WITH TOTO TEL36S10 SOLAR SENSOR FAUCETS.
DF	DRINKING FOUNTAIN (HI-LO ADA, FILTERED NON-REFRIGERATED, ACCESSORY APRON FOR HIGH UNIT) ELKAY LZWS-EDFPBM117K WITH BOTTLE FILLER, ACCESSORY CANE APRON LKAPR1. COORDINATE WITH ARCH FOR MOUNTING HEIGHTS, VERIFY MODEL FOR HI/LO LOCATIONS (1-LOW/ADA HEIGHT, 1-HIGH).	HALSEY-TAYLOR MODEL #HTBWR-OVLSEBP-L. ACCESSORY APRON HTOVLAPR.	OASIS MODEL #MMRSLSBF STNLS. STL. ACCESSORY APRON.
FD	FLOOR DRAIN ZURN ZN-415 WITH DEEP SEAL P-TRAP, 5" X 5" TYPE "S" SQUARE STRAINER AND 3" CONNECTION, VANDAL-PROOF TOP. PROVIDE MODEL WITH TRAP PRIMER CONNECTION.	JOSAM #30000-S.	JAY R. SMITH #2005-B.
HB	HOSE BIBB ZURN Z-1330-C, 3/4" WALL HYDRANT WITH VANDAL RESISTANT VACUUM BREAKER. ENCASED WITH KEY LOCK.	WATTS #HY-330.	JAY R. SMITH #5509QT.
TMV	THERMOSTATIC MIXING VALVE (VERIFY IF REQUIRED- SEE KEY NOTES SHEET P3) WATTS MMV-M1 MIXING VALVE WITH CHECKSTOPS. 1" INLETS. INSTALL IN ACCESSIBLE LOCATION. SET OUTFLOW TO SPECIFIED TEMPERATURE (LTHW/110 DEG F.).	LEONARD TM SERIES.	TACO 5000 SERIES.

*OR APPROVED EQUAL

GENERAL NOTES - PLUMBING

- PREPLAN ALL WORK PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY PART OF THE WORK DESCRIBED BY THIS DRAWING.
- IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS WITH EXISTING FIELD CONDITIONS OR THE WORK OF OTHER TRADES.
- RESOLVE ALL CONFLICTS PRIOR TO INCURRING ANY MATERIAL OR LABOR EXPENSES.
- COMPLY WITH THE MANUFACTURER'S TECHNICAL INSTRUCTIONS WHEN INSTALLING PLUMBING FIXTURES, MATERIALS, AND DEVICES.
- 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.
- COORDINATE ROUTING OF ALL PIPING WITH BUILDING STRUCTURE AND WITH THE WORK OF OTHER TRADES. OFFSET VENT PIPING AROUND BEAMS AND JOISTS AS NECESSARY.
- ALL HANDICAP FIXTURES AND INSTALLATION OF HANDICAP FIXTURES SHALL CONFORM TO ADA REQUIREMENTS.
- AT EXTERIOR WALL, INSTALL WATER PIPING ON HEATED SIDE OF WALL INSULATION.
- PROVIDE WATER HAMMER ARRESTORS AT THE END OF EACH COLD AND HOT WATER BRANCH RISER. SIZE ARRESTOR APPROPRIATELY.
- PROVIDE CONCRETE RING FOR ALL EXTERIOR CLEAN-OUTS.
- REVIEW SITE PLAN FOR UTILITIES AND ORIENTATION PRIOR TO START OF WORK.
- G.C. TO PROVIDE ROOF PENETRATIONS.
- PROVIDE HTHW AT 140 DEGREES (F) AND LTHW AT 110 DEGREES (F).

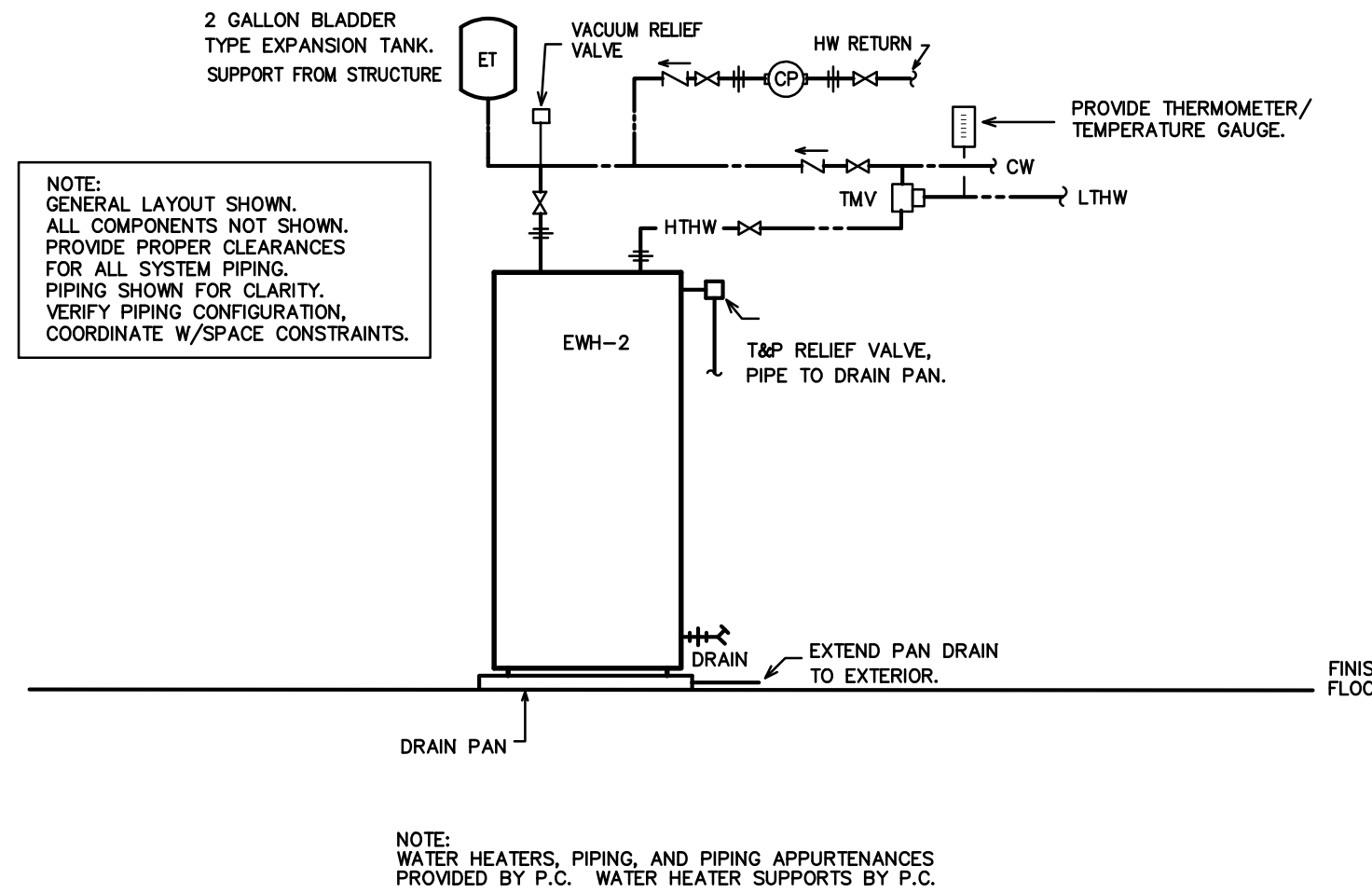
PROVIDE HEAT TRAPS ON THE SUPPLY AND DISCHARGE PIPING OF THE WATER HEATER UNLESS PROVIDED BY WATER HEATER MANUFACTURER. PROVIDE "FLUSH HEAT TRAP FITTINGS" BY PERFECTION CORPORATION OR APPROVED EQUAL. HEAT TRAPS ARE REQUIRED PER SECT. 504.4 OF THE ENERGY CODE.



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

1 EWH-1 DETAIL
SCALE: NOT TO SCALE

PROVIDE FOR AUTOMATIC SHUT-OFF OF CIRC. PUMP WHEN HOT WATER SYSTEM IS NOT IN USE AS REQUIRED PER SECTION 504.6 OF THE ENERGY CODE.



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

2 EWH-2 DETAIL
SCALE: NOT TO SCALE

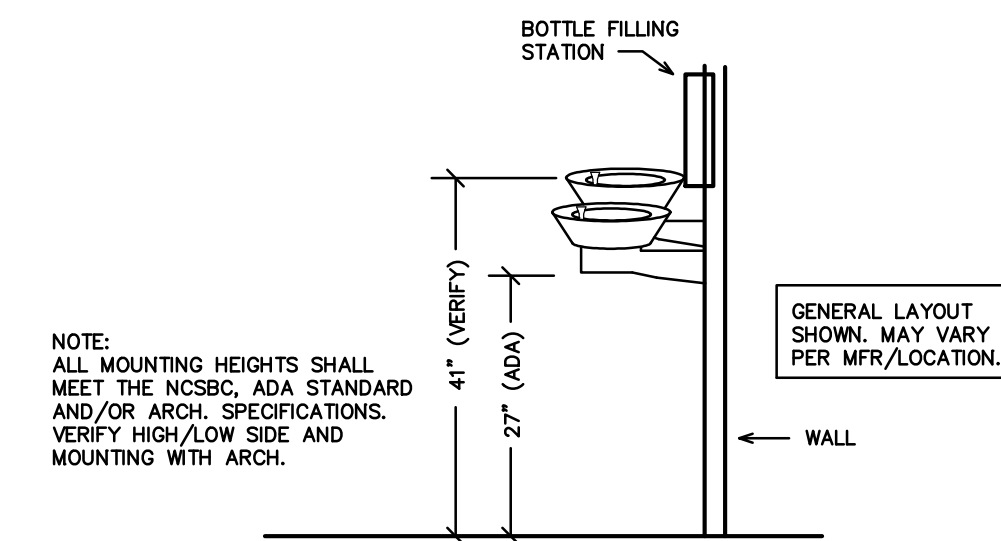
SYMBOL LEGEND - PLUMBING

SYMBOL	DESCRIPTION
-----	WASTE PIPING (W)
-----	VENT PIPING (V)
-----	COLD WATER PIPING (CW)
-----	HOT WATER PIPING (HW)
-----	HOT WATER RETURN PIPING (HWR)
-----	HIGH TEMPERATURE HW PIPING (HTHW) 140 DEG. F
-----	LOW TEMPERATURE HW PIPING (LTHW) 110 DEG. F
○	CLEANOUT FINISH FLOOR
⊥	WALL/HORIZONTAL CLEANOUT
⊕	CLEANOUT FINISH GRADE--PROVIDE FLUSH CONCRETE COLLAR AND BRONZE COVER
	DIELECTRIC UNION
⊘	SHUT-OFF VALVE
⊘	CHECK VALVE
⊘	BALANCING VALVE
⊘	CIRCULATION PUMP (CP)
⊘	WATER METER (MTR)
⊕	VENT THRU ROOF (VTR)
⊕	FREEZE PROOF, HOSE BIBB (FPHB/HB)
⊕	POINT OF NEW CONNECTION TO EXISTING
⊕	THERMOSTATIC MIXING VALVE (TMV)

LOAD SUMMARY- PLUMBING

WASTE DEMAND (FU)	WATER DEMAND (FU)	WATER DEMAND (GPM)
85.0	140.5	77.1

A 2" CW SERVICE/RPZ ARE EXISTING.



3 DF DETAIL
SCALE: NOT TO SCALE

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PROJECT TITLE
**CARTER COUNTY
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3409 ARENDELL STREET
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PROJECT NO.
1604a

DRAWING TITLE
**PLUMBING
SPECIFICATIONS**

PLOT DATE 8/11/17

P1

NOTE:
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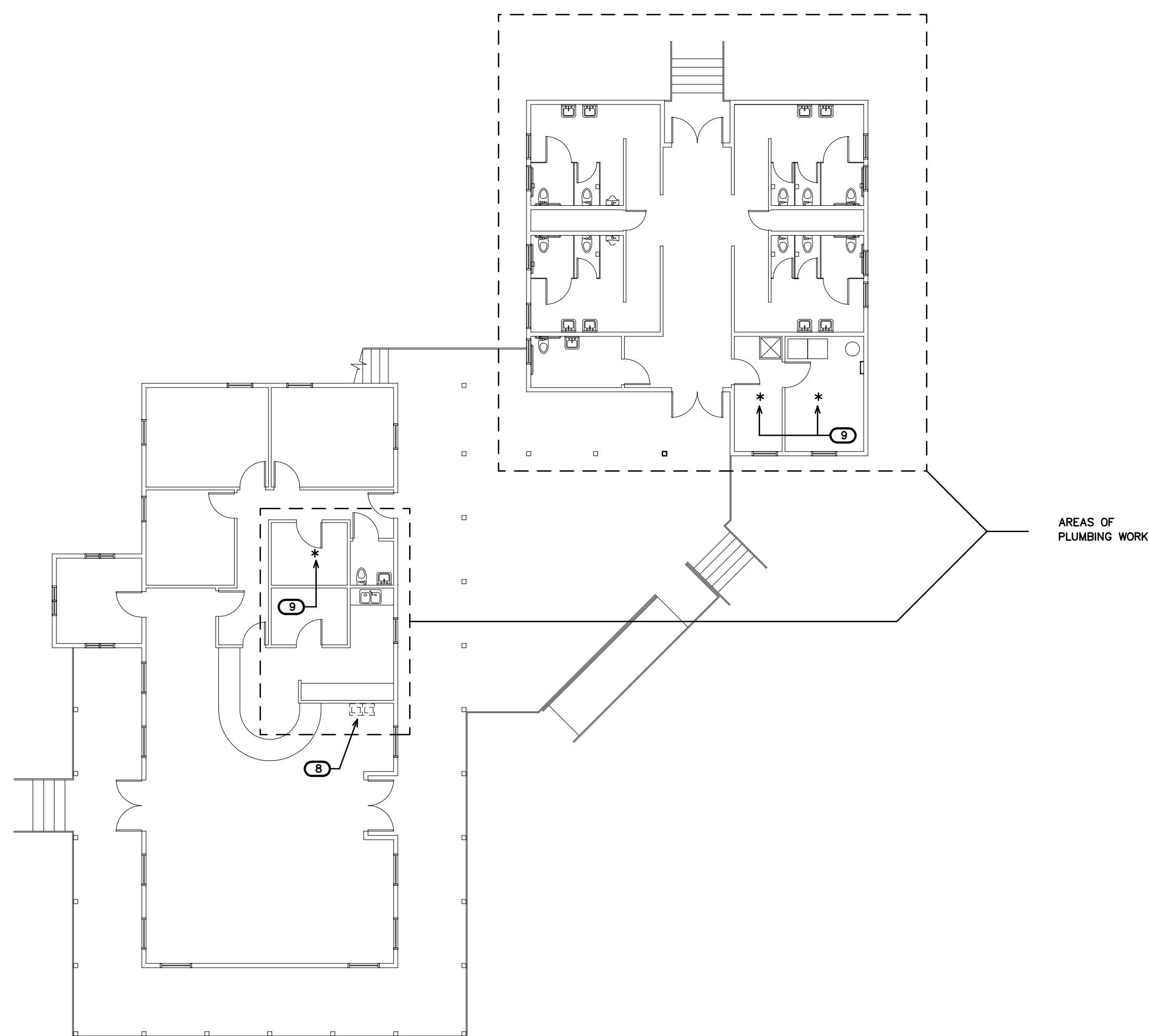
THE SCOPE OF DEMOLITION IS AS FOLLOWS—
 REMOVE EXISTING FIXTURES IN WORK AREA AS SHOWN. MAINTAIN INCOMING MAIN DRAIN/CW SUPPLY FOR CONNECTION TO NEW LINES— COORDINATE W/REVISED PLANS. PROVIDE CLEANOUTS ON UNUSED DRAIN LINES AT FINAL FINISHES TO PREVENT DEAD-ENDS PER CODE. REMOVE UNUSED VENT LINES TO ABOVE CEILING AND CAP AT MAIN. REMOVE ALL UNUSED CW & HW LINES/STUB-OUTS, ETC., AND CAP LINES BEHIND FINAL FINISHES. REMOVE AND REPLACE ALL CONCRETE, WALLS AND CEILING AS REQUIRED TO LOCATE EXISTING LINES/INSTALL NEW LINES. COORDINATE W/REVISED PLANS FOR LINES TO BE REUSED/REMOVED.

THE PLUMBING CONTRACTOR SHALL TRACE ALL EXISTING DRAIN LINES PRIOR TO THE START OF WORK UTILIZING DYE AND/OR CAMERAS IF NECESSARY. PROVIDE AS-BUILT DRAWINGS FOR ENGINEER REVIEW. VERIFY LOCATION/INVERT REQUIREMENTS OF EXISTING DRAIN LINES PRIOR TO START OF WORK.

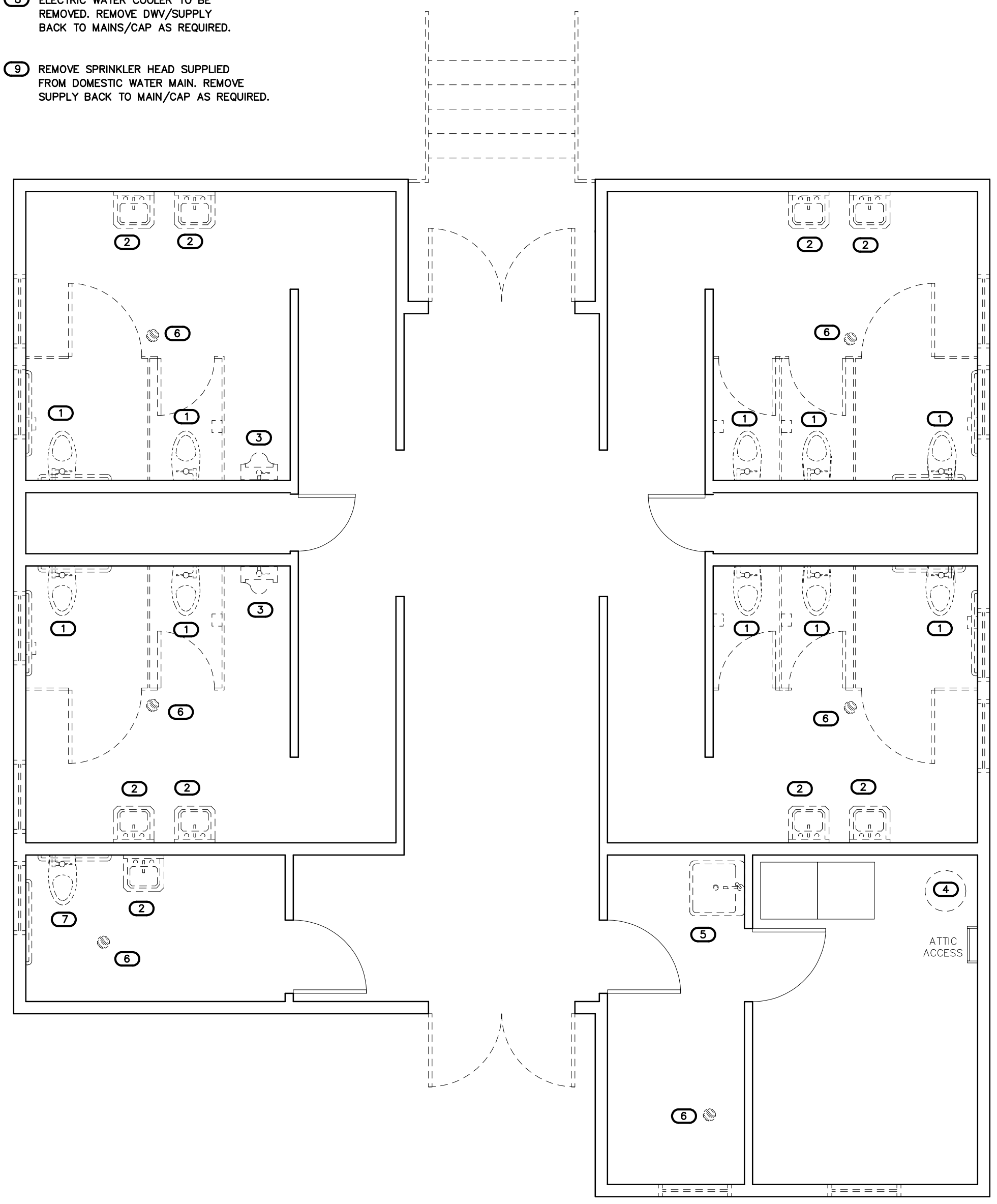
COORDINATE WORK WITH BUILDING OWNER SO AS NOT TO IMPACT OPERATION OF ANY ADJACENT BLDG./ EXISTING FIXTURES SERVED BY DWV/SUPPLY MAINS. NIGHT AND WEEKEND WORK MAY BE REQUIRED.

NOTE:
 ALL EXISTING PLUMBING FIXTURES, LINES, AND/OR EQUIPMENT TO BE REMOVED MAY NOT BE SHOWN. COORDINATE WITH DEMO/NEW PLANS AND FIELD CONDITIONS. VERIFY DWV/SUPPLY TO BE REMOVED. COORDINATE W/P3, P4.

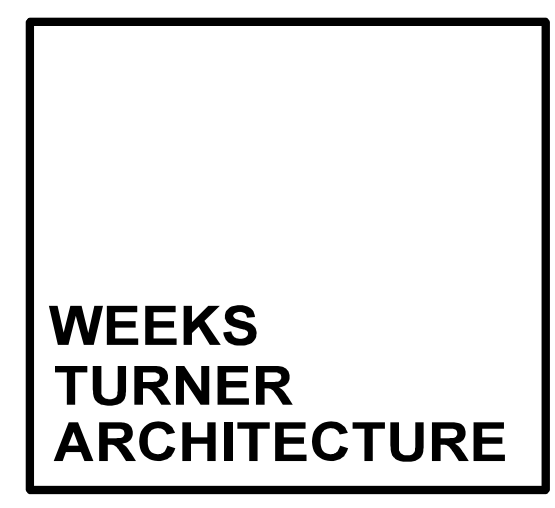
- KEY NOTES FOR SHEET P2
- 1 WATER CLOSET TO BE REMOVED.
 - 2 LAVATORY TO BE REMOVED.
 - 3 URINAL TO BE REMOVED.
 - 4 ELECTRIC WATER HEATER TO BE REMOVED.
 - 5 SERVICE SINK TO BE REMOVED.
 - 6 FLOOR DRAIN TO BE REMOVED.
 - 7 WALL-HUNG WATER CLOSET TO BE REMOVED AND REPLACED W/FLOOR MOUNTED UNIT. GC TO REPLACE FLOORING. COORDINATE FOR NEW UNIT REQUIREMENTS.
 - 8 ELECTRIC WATER COOLER TO BE REMOVED. REMOVE DWV/SUPPLY BACK TO MAINS/CAP AS REQUIRED.
 - 9 REMOVE SPRINKLER HEAD SUPPLIED FROM DOMESTIC WATER MAIN. REMOVE SUPPLY BACK TO MAIN/CAP AS REQUIRED.



2 KEY PLAN
 SCALE: NOT TO SCALE

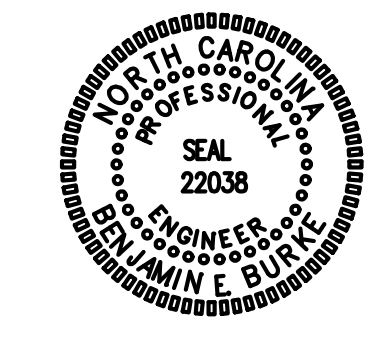


1 DEMO PLAN
 SCALE: 1/4" = 1'-0"



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 8/11/2017

STATE ID# 17-17533-01A
 WBS ELEMENT 51213.031

PROJECT TITLE
**CARTERET COUNTY
 REST AREA**
 3409 ARENDELL STREET
 MOREHEAD CITY, NORTH CAROLINA

PROJECT NO.
1604a

DRAWING TITLE
**DEMO
 PLAN**

P2

PLOT DATE 8/11/17

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DocuSigned by:
Ben Burke
02810318882F34D5
8/11/2017

(VERIFY ALL EQUIPMENT REQUIREMENTS PRIOR TO ROUGH-IN)

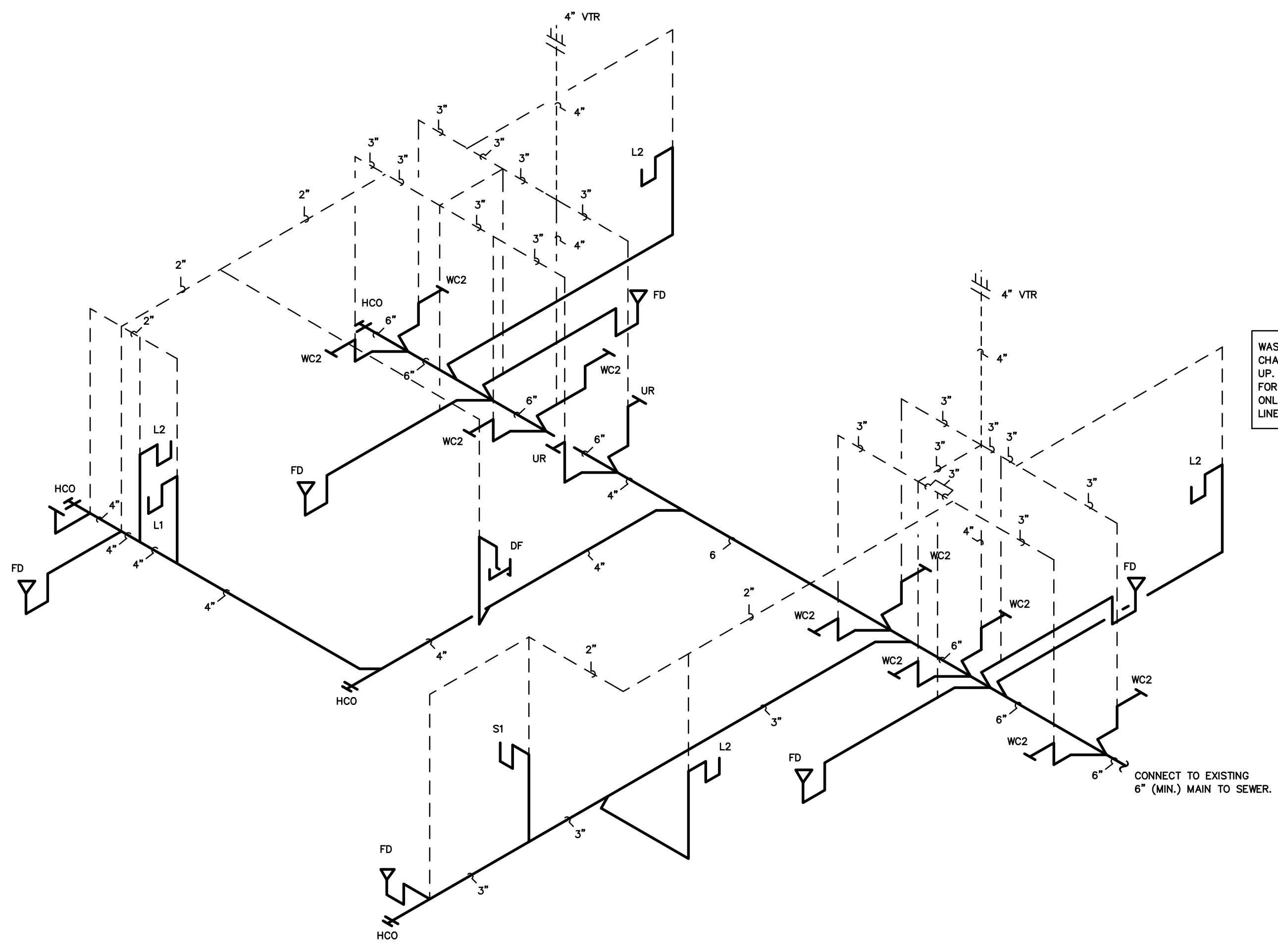
PIPE SIZING SCHEDULE		
FIXTURE TYPE	DRAIN	VENT
(WC) FLUSH VALVE WATER CLOSET	3"	1 1/2"
(L) LAVATORY	3"	1 1/2"
(S) SERVICE SINK	1 1/2"	1 1/4"
(UR) URINAL	2"	1 1/2"
(DF) DRINKING FOUNTAIN	1 1/4"	1 1/4"
(FD) FLOOR DRAIN	3"	1 1/2"

RISER NOTES:
REPRESENTATIVE SIZES ARE GIVEN FOR EACH TYPE OF FIXTURE.
SEE PIPE SIZING SCHEDULE.
MAINTAIN PIPE SIZES SHOWN UNTIL LARGER SIZE IS REACHED.
PIPE SIZES ARE MINIMUMS FOR INDIVIDUAL FIXTURES U.O.N.

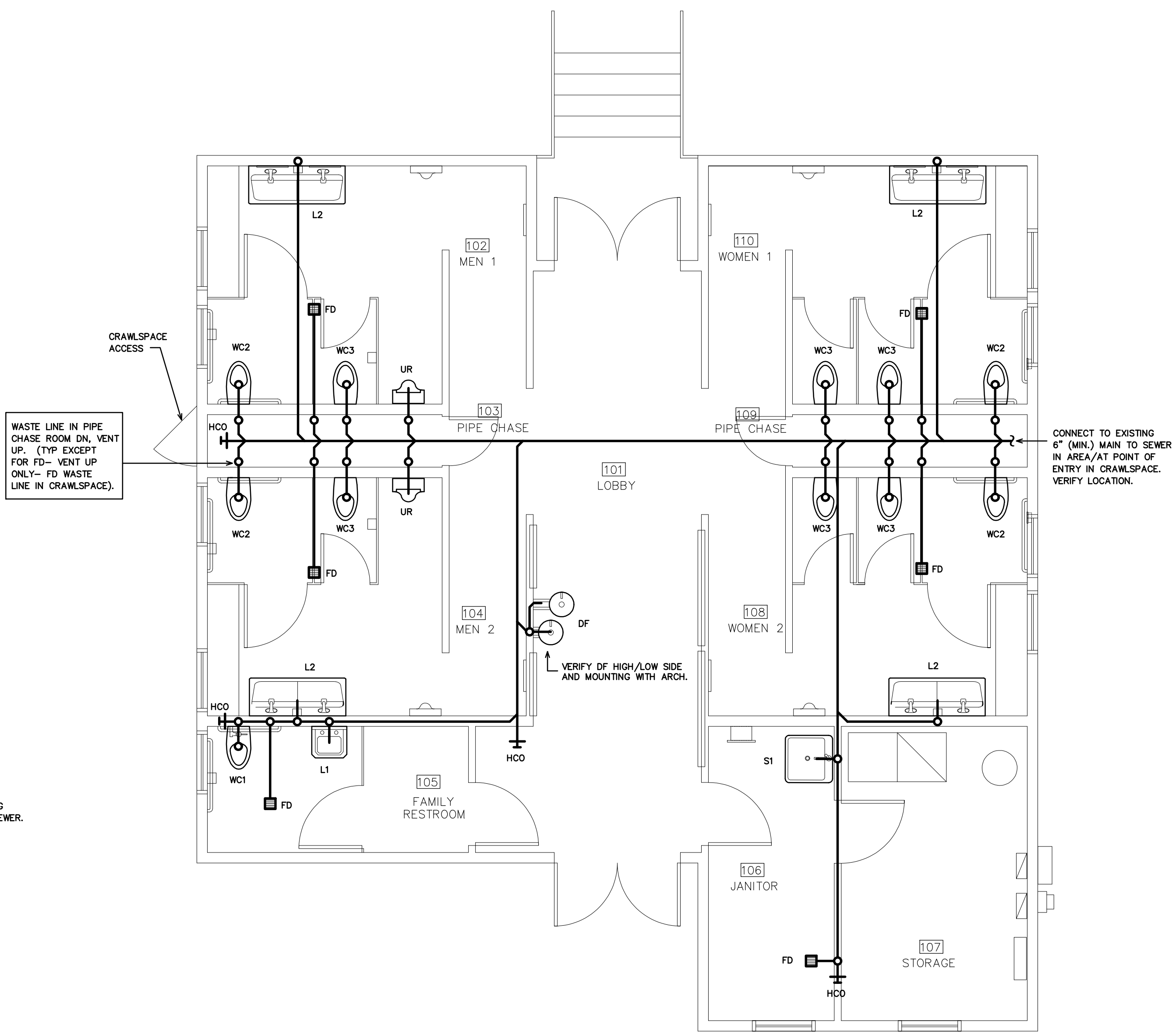
NOTE:
ANY EXISTING INFORMATION SHOWN ON THIS DRAWING IS FROM FIELD INVESTIGATION AND PREVIOUS PERMIT DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION. THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES NOTED.
REMOVE AND REPLACE ALL CONCRETE, WALL BOARD AND CEILINGS AS REQUIRED TO LOCATE EXISTING LINES AND INSTALL NEW LINES. ALL EXISTING LINES NOT SHOWN.
THE PLUMBING CONTRACTOR SHALL TRACE ALL EXISTING DRAIN LINES PRIOR TO THE START OF WORK UTILIZING DYE AND/OR CAMERAS IF NECESSARY. PROVIDE AS-BUILT DRAWINGS FOR ENGINEER REVIEW. VERIFY LOCATION/INVERT REQUIREMENTS OF EXISTING DRAIN LINES PRIOR TO START OF WORK.
COORDINATE WORK WITH BUILDING OWNER SO AS NOT TO IMPACT OPERATION OF ANY ADJACENT BLDG./EXISTING FIXTURES SERVED BY DWV/SUPPLY MAINS. NIGHT AND WEEKEND WORK MAY BE REQUIRED.

NOTE:
COORDINATE W/ARCH. FOR ALL FLOOR DRAIN LOCATIONS.

NOTE:
VERIFY REQUIREMENTS OF L2 LAVATORY STATIONS. DWV MAY VARY PER MODEL.



1 DWV RISER
SCALE: NOT TO SCALE



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

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3409 ARENDELL STREET
MOREHEAD CITY, NORTH CAROLINA

PROJECT NO.
1604a

DRAWING TITLE
**REVISED DWV
PLAN**

P3

PLOT DATE 8/11/17

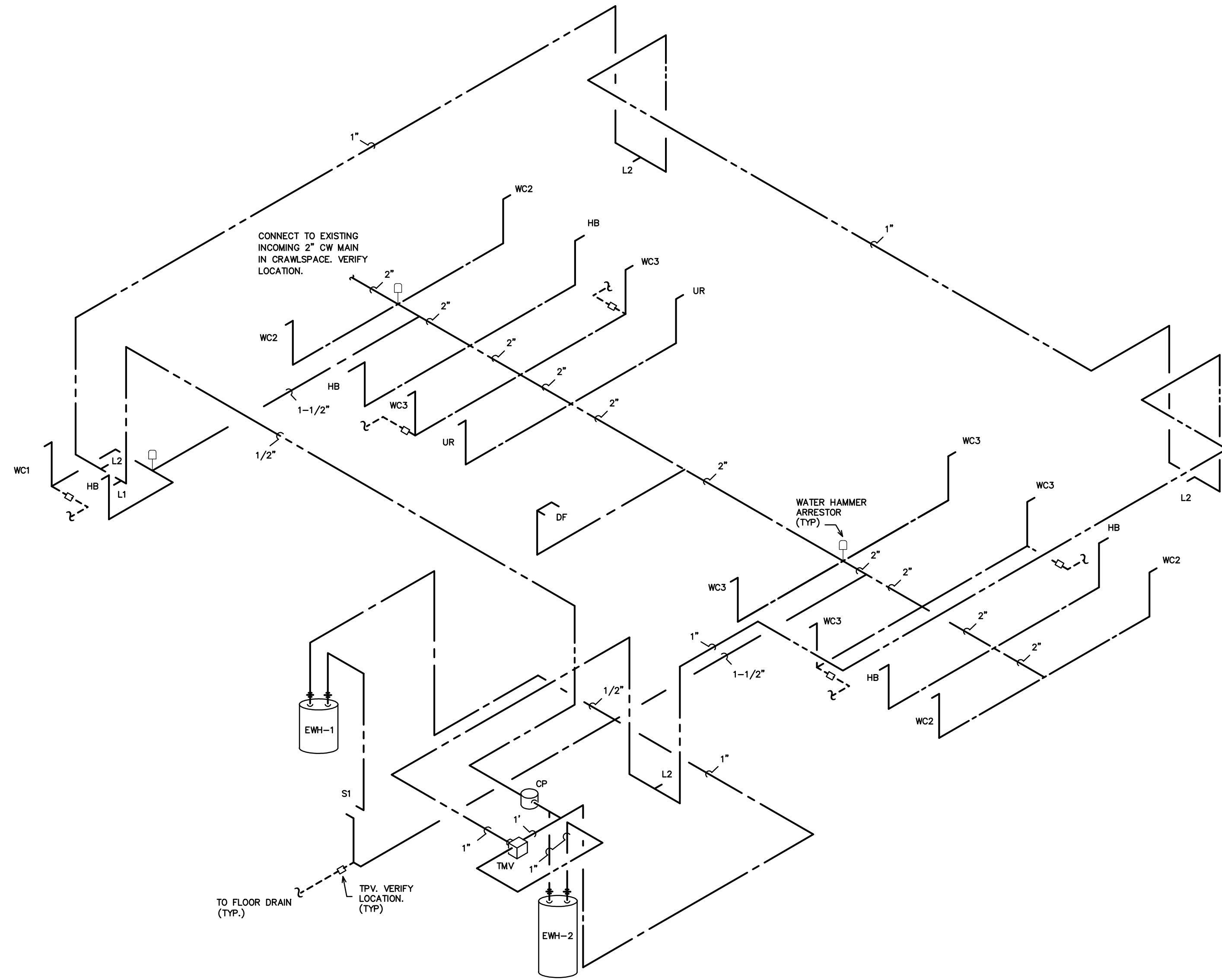
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(VERIFY ALL EQUIPMENT REQUIREMENTS PRIOR TO ROUGH-IN)

PIPE SIZING SCHEDULE		
FIXTURE TYPE	CW	HW
(WC) FLUSH VALVE WATER CLOSET	1"	-
(L) LAVATORY	1/2"	1/2"
(S) SERVICE SINK	1/2"	1/2"
(UR) URINAL	3/4"	-
(DF) DRINKING FOUNTAIN	1/2"	-
(HB) HOSE BIBB	1/2"	-
(TPV) TRAP PRIMER VALVE	1/2"	-

* PROVIDE BACKFLOW PREVENTER PER NCSBC-PLUMBING SECT. 608.3, ASSE 1024 (WATTS SERIES 7 OR EQUAL) OR ASSE 1022 (WATTS SERIES SD-3 OR EQUAL) IF/WHERE REQUIRED.

RISER NOTES:
 REPRESENTATIVE SIZES ARE GIVEN FOR EACH TYPE OF FIXTURE.
 SEE PIPE SIZING SCHEDULE.
 MAINTAIN PIPE SIZES SHOWN UNTIL LARGER SIZE IS REACHED.
 PIPE SIZES ARE MINIMUMS FOR INDIVIDUAL FIXTURES U.O.N.



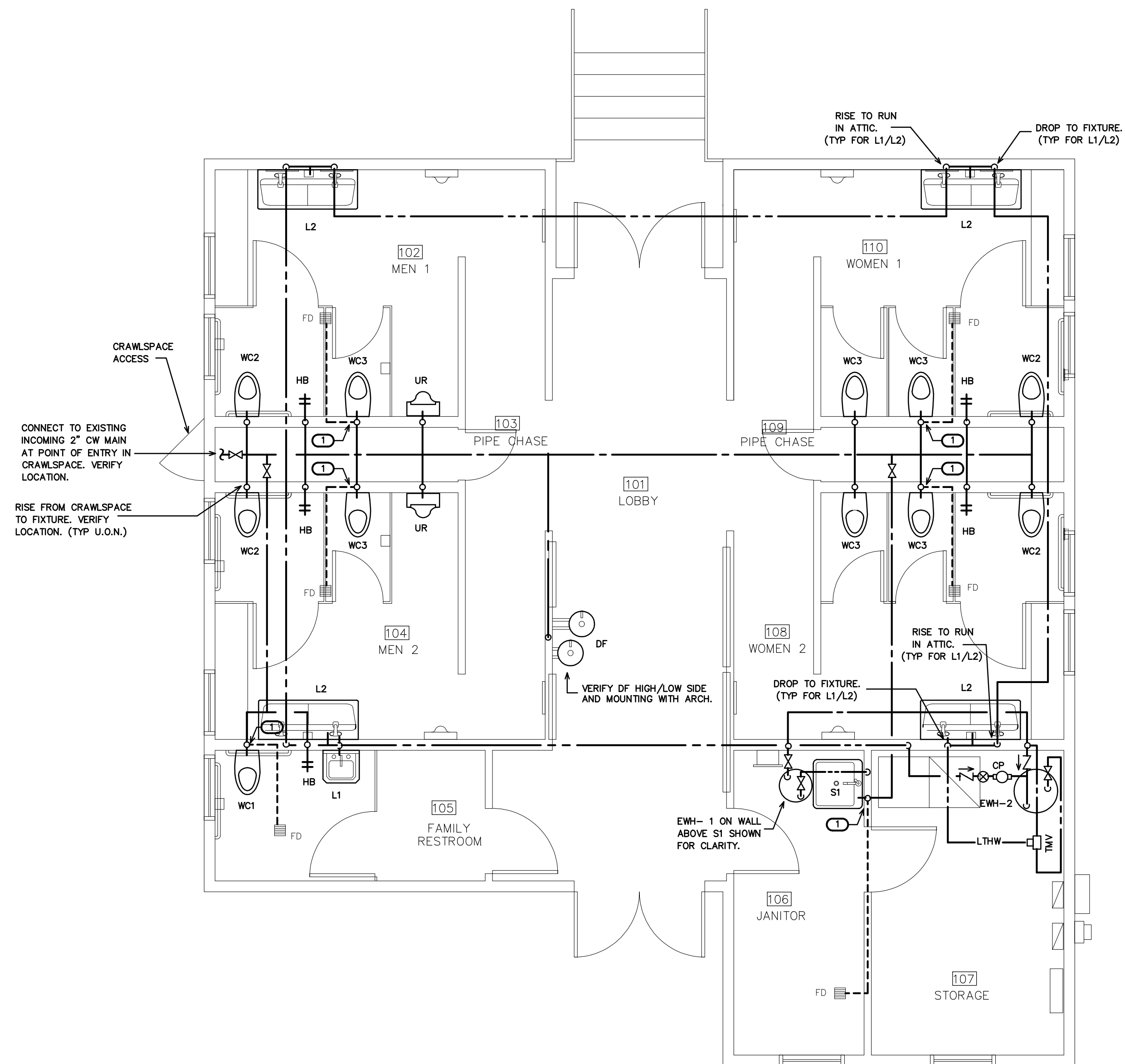
NOTE:
 VERIFY TPV/WATER HAMMER
 UNIT LOCATIONS.

1 SUPPLY RISER
 SCALE: NOT TO SCALE

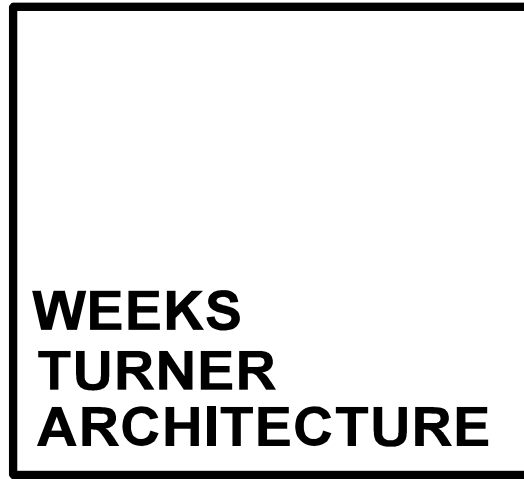
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 REMOVE AND REPLACE ALL CONCRETE, WALL BOARD AND CEILINGS AS REQUIRED TO LOCATE EXISTING LINES AND INSTALL NEW LINES. ALL EXISTING LINES NOT SHOWN.
 COORDINATE WORK WITH BUILDING OWNER SO AS NOT TO IMPACT OPERATION OF ANY ADJACENT BLDG./ EXISTING FIXTURES SERVED BY DWV/SUPPLY MAINS. NIGHT AND WEEKEND WORK MAY BE REQUIRED.

NOTE:
 EXISTING EXTERIOR FPHB (NOT SHOWN) TO BE MAINTAINED. RE-PIPE SUPPLY AS REQUIRED, REPLACE UNITS IF REQUIRED. PROPERLY INSULATE ALL NEW AND EXISTING PIPING IN CRAWLSPACE, ATTIC, AND WITHIN BUILDING ENVELOPE. VERIFY SUPPLY LINE ROUTING IN ATTIC AND/OR CRAWLSPACE.

KEY NOTES FOR SHEET P4
 PROVIDE TRAP PRIMER VALVE (NOT SHOWN) IN ACCESSIBLE LOCATION
 PROVIDE TRAP PRIMER VALVE (TPV- NOT SHOWN) IN ACCESSIBLE LOCATION AND EXTEND CW BELOW FLOOR TO FLOOR DRAIN.



1 REVISED SUPPLY PLAN
 SCALE: 1/4" = 1'-0"



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