

Wilson Street Park Phase 1

Restroom Building, Parking Area, Trails Construction Documents

July 23, 2021

City of Concord Parks & Recreation Dept.
147 Academy Avenue NW | PO Box 308
Concord, NC 28026-0308



SITE INFORMATION
SITE LOCATION - PIN NUMBER:
56310155900000

SITE ADDRESS:
106 WILSON ST NE, CONCORD, NC 28025

OWNER:
CITY OF CONCORD
PO BOX 308
CONCORD, NC 28026-0308

ZONING:
RM-2 - CITY OF CONCORD

JURISDICTION: CONCORD CITY LIMITS
COUNTY: CABARRUS

SITE ACREAGE:
308,264 SQ.FT. = 7.08 ACRES

SITE LIMITS OF DISTURBANCE:
39,741 SQ.FT. = 0.91 ACRES

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REV.	DATE	DESCRIPTION
1	08/03/2021	ISSUE FOR PERMITS



DATE: 7/23/2021
SCALE: AS SHOWN
JOB NUMBER: 20-45-1
DESIGNED BY: GRF
DRAWN BY: GRF

COVER SHEET

G1.0



2018 APPENDIX B: Wilson Street Park New Restroom

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

Name of Project: Wilson Street Park New Restroom
 Address: 106 Wilson Street, Concord Zip Code 28025
 Owner/Authorized Agent: Brian Conroy Phone No.: 704.661.2337 E-Mail: Brian.citizen@gmail.com
 Owned By: City/County Private State
 Code Enforcement Jurisdiction: City Concord County Cabarrus State NC

CONTACT: Brian Conroy
 DESIGNER: FIRM citizen design NAME Brian Conroy LICENSE # 12145 TELEPHONE # 704.661.2337 E-MAIL Brian.citizen@gmail.com
 Architectural citizen design Civil Brian Conroy
 Electrical Shults Engineering Fire Alarm Shults Engineering Plumbing Shults Engineering Mechanical Shults Engineering Retaining Walls > 5'-0" IDE Charlotte
 Brian D. Winkler 33160 980.202.5646 Bwinkler@shultzeg.com
 Charlie Curlin 25028 704.334.7363 ccurin@shultzeg.com
 Charlie Curlin 25028 704.334.7363 ccurin@shultzeg.com
 Chad Ritter 31995 704.999.3867 chad@IDECharlotte.com

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

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

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

CONSTRUCTED: (date) _____ **CURRENT OCCUPANCY(S)** (Ch. 3): _____
RENOVATED: (date) _____ **PROPOSED OCCUPANCY(S)** (Ch. 3): _____

RISK CATEGORY (Table 1604.5): **Current:** I II III IV V
Proposed: I II III IV V

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

Gross Building Area Table			
FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3 rd Floor			
2 nd Floor			
Mezzanine			
1 st Floor		1,040	1,040
Basement			
TOTAL			1,040

ALLOWABLE AREA
Primary Occupancy Classification(s): Select one. Select one. Select one. Select one. Select one.
 Assembly A-1 A-2 A-3 A-4 A-5
 Business
 Educational
 Factory F-1 Moderate F-2 Low
 Hazardous H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
 Institutional I-1 Condition I 1 I 2
 I-2 Condition I 1 I 2
 I-3 Condition I 1 I 2 I 3 I 4
 Mercantile
 Residential R-1 R-2 R-3 R-4
 Storage S-1 Moderate S-2 Low High-piled
 Parking Garage Open Enclosed Repair Garage
 Utility and Miscellaneous

Accessory Occupancy Classification(s): _____
Incidental Uses (Table 509): _____
Special Uses (Chapter 4 - List Code Sections): _____
Special Provisions: (Chapter 5 - List Code Sections) : _____
Mixed Occupancy: No Yes Separation: _____ Hr. Exception: _____
 Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
 Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$
 NOT USED + NOT USED + ... = _____ ≤ 1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2.4 AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,2}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{2,3}
1	OPEN COVERED	608	U.L.	0	U.L.
1	RESTROOMS	274	U.L.	0	U.L.

¹ Frontage area increases from Section 506.2 are computed thus:
 a. Perimeter which fronts a public way or open space having 20 feet minimum width = NA (F)
 b. Total Building Perimeter = NA (P)
 c. Ratio (F/P) = NA (F/P)
 d. W = Minimum width of public way = NA (W)
 e. Percent of frontage increase $I = 100[(F/P - 0.25) \times W/30] = \text{NA}$ (%)
² Unlimited area applicable under conditions of Section 507.
³ Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
⁴ The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.
⁵ Frontage increase is based on the unspinklered area value in Table 506.2.

ALLOWABLE HEIGHT			
	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	U.L.	22'-8"	
Building Height in Stories (Table 504.4)	U.L.	1	

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

FIRE PROTECTION REQUIREMENTS						
BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	RATING: PROVIDED (w/ REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION
Structural Frame, including columns, girders, trusses	>30'	0	0	3/A3.0		
Bearing Walls	>30'	0	0	1/A-3.0		
Exterior Walls						
North						
East						
West						
South						
Interior			0	1/A-3.0		
Nonbearing Walls and Partitions						
Exterior walls						
North						
East						
West						
South						
Interior walls and partitions	0	0	0	2/A3.0		
Floor Construction including supporting beams and joists	0	0	0	1/A-3.0		
Floor Ceiling Assembly						
Columns Supporting Floors						
Roof Construction, including supporting beams and joists	0	0	0	1/A-3.0		
Roof Ceiling Assembly	0	0	0	1/A-3.0		
Columns Supporting Roof	0	0	0	3/A3.0		
Shaft Enclosures - Exit						
Shaft Enclosures - Other						
Corridor Separation	NA					
Occupancy/Fire Barrier Separation	NA					
Party/Fine Wall Separation	NA					
Smoke Barrier Separation	NA					
Smoke Partition	NA					
Tenant/Dwelling Unit/Sleeping Unit Separation	NA					
Incidental Use Separation	NA					

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS			
FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
30' < X	UP, NS	NO LIMIT	1.1%

LIFE SAFETY SYSTEM REQUIREMENTS
 Emergency Lighting: No Yes
 Exit Signs: No Yes
 Fire Alarm: No Yes
 Smoke Detection Systems: No Yes Partial
 Carbon Monoxide Detection: No Yes

LIFE SAFETY PLAN REQUIREMENTS
 Life Safety Plan Sheet #: 3/A-1.0
 Fire and/or smoke rated wall locations (Chapter 7)
 Assumed and real property line locations (if not on the site plan)
 Exterior wall opening area with respect to distance to assumed property lines (705.8)
 Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
 Occupant loads for each area
 Exit access travel distances (1017)
 Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
 Dead end lengths (1020.4)
 Clear exit widths for each exit door
 Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
 Actual occupant load for each exit door
 A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
 Location of doors with panic hardware (1010.1.10)
 Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
 Location of doors with electromagnetic egress locks (1010.1.9.9)
 Location of doors equipped with hold-open devices
 Location of emergency escape windows (1030)
 The square footage of each fire area (202)
 The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
 Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS (SECTION 1107)						
TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED
NA						

ACCESSIBLE PARKING (SECTION 1106)						
LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	TOTAL # OF PARKING SPACES PROVIDED	# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
			REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	8' ACCESS AISLE	
NEW		33		2		2
TOTAL						

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)									
USE	EXIST'G	WATERCLOSETS		URINALS	LAVATORIES		SHOWERS /TUBS	DRINKING FOUNTAINS	
		MALE	FEMALE		UNISEX	MALE		FEMALE	UNISEX
NEW		1	2	0	1	1	0	0	1

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

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

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

Exempt Building: No Yes (Provide code or statutory reference): _____
Climate Zone: 3A 4A 5A
Method of Compliance: Energy Code Performance Prescriptive
 ASHRAE 90.1 Performance Prescriptive
 (If "Other" specify source here) _____

THERMAL ENVELOPE (Prescriptive method only)
Roof/ceiling Assembly (each assembly)
 Description of assembly: WOOD RAFTERS @ 24" O.C.
 U-Value of total assembly: R-38
 R-Value of insulation: NONE
 Skylights in each assembly: NONE
 U-Value of skylight: _____
 total square footage of skylights in each assembly: _____
Exterior Walls (each assembly)
 Description of assembly: 2x6 WOOD STUDS @ 16"
 U-Value of total assembly: _____
 R-Value of insulation: R-20 BATT
 Openings (windows or doors with glazing)
 U-Value of assembly: 0.32
 Solar heat gain coefficient: 0.4
 projection factor: 0.63
 Door R-Values: 1.43 MIN.
Walls below grade (each assembly)
 Description of assembly: NONE
 U-Value of total assembly: _____
 R-Value of insulation: _____
Floors over unconditioned space (each assembly)
 Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: NONE
Floors slab on grade
 Description of assembly: 4" SLAB ON GRADE
 U-Value of total assembly: F-0.730
 R-Value of insulation: NONE
 Horizontal/vertical requirement: _____
 slab heated: NONE

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS STRUCTURAL DESIGN (PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)
DESIGN LOADS:
Importance Factors: Snow (I_s) 1.0
 Seismic (I_e) 1.0
Live Loads: Roof 20 psf
 Mezzanine NA psf
 Floor 100 psf
Ground Snow Load: 11 psf
Wind Load: Ultimate Wind Speed 115 mph (ASCE-7)
 Exposure Category B

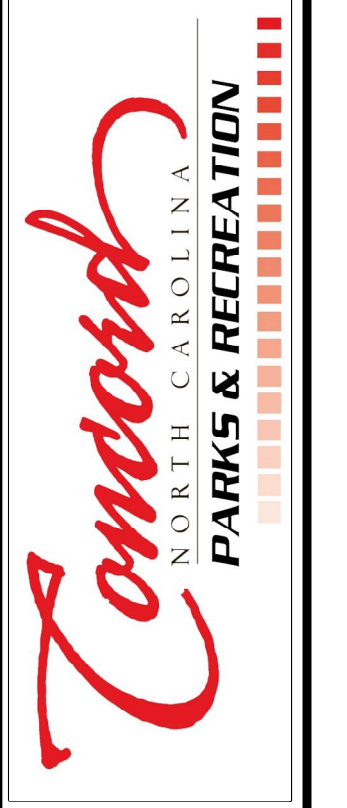
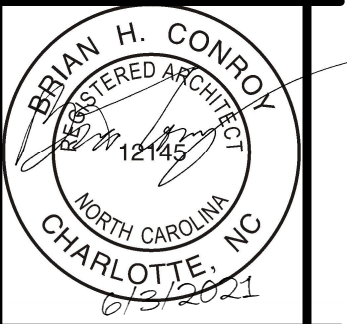
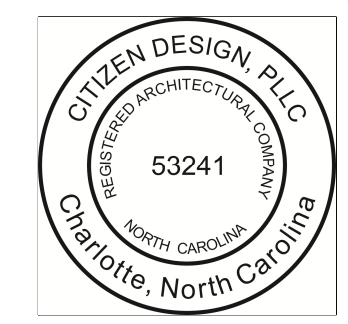
SEISMIC DESIGN CATEGORY: A B C D
 Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) I II III IV
Spectral Response Acceleration S_s 0.35 %g S₁ 11 %g
Site Classification (ASCE 7) A B C D E F
 Data Source: Field Test Presumptive Historical Data
Basic structural system Bearing Wall Dual w/Special Moment Frame
 Building Frame Dual w/Intermediate R/C or Special Steel
 Moment Frame Inverted Pendulum
Analysis Procedure: Simplified Equivalent Lateral Force Dynamic
Architectural, Mechanical, Components anchored? Yes No
LATERAL DESIGN CONTROL: Earthquake Wind
SOIL BEARING CAPACITIES:
 Field Test (provide copy of test report) _____ psf
 Presumptive Bearing capacity 1,500 psf
 Pile size, type, and capacity _____

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS MECHANICAL DESIGN (PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)
MECHANICAL SUMMARY
MECHANICAL SYSTEMS SERVICE SYSTEMS AND EQUIPMENT
Thermal Zone
 winter dry bulb: _____
 summer dry bulb: _____
Interior design conditions
 winter dry bulb: _____
 summer dry bulb: _____
 relative humidity: _____
Building heating load: _____
Building cooling load: _____
Mechanical Spacing Conditioning System
 Unitary
 description of unit: _____
 heating efficiency: _____
 cooling efficiency: _____
 size category of unit: _____
 Boiler
 Size category. If oversized, state reason: _____
 Chiller
 Size category. If oversized, state reason: _____
List equipment efficiencies: _____

SEE MECHANICAL DRAWINGS

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)
ELECTRICAL SUMMARY
ELECTRICAL SYSTEM AND EQUIPMENT
Method of Compliance: Energy Code Performance Prescriptive
 ASHRAE 90.1 Performance Prescriptive
Lighting schedule (each fixture type)
 lamp type required in fixture _____
 number of lamps in fixture _____
 ballast type used in the fixture _____
 number of ballasts in fixture _____
 total wattage per fixture _____
 total interior wattage specified vs. allowed (whole building or space by space) _____
 total exterior wattage specified vs. allowed _____
Additional Efficiency Package Options (When using the 2018 NCECC; not required for ASHRAE 90.1)
 C406.2 More Efficient HVAC Equipment Performance
 C406.3 Reduced Lighting Power Density
 C406.4 Enhanced Digital Lighting Controls
 C406.5 On-Site Renewable Energy
 C406.6 Dedicated Outdoor Air System
 C406.7 Reduced Energy Use in Service Water Heating

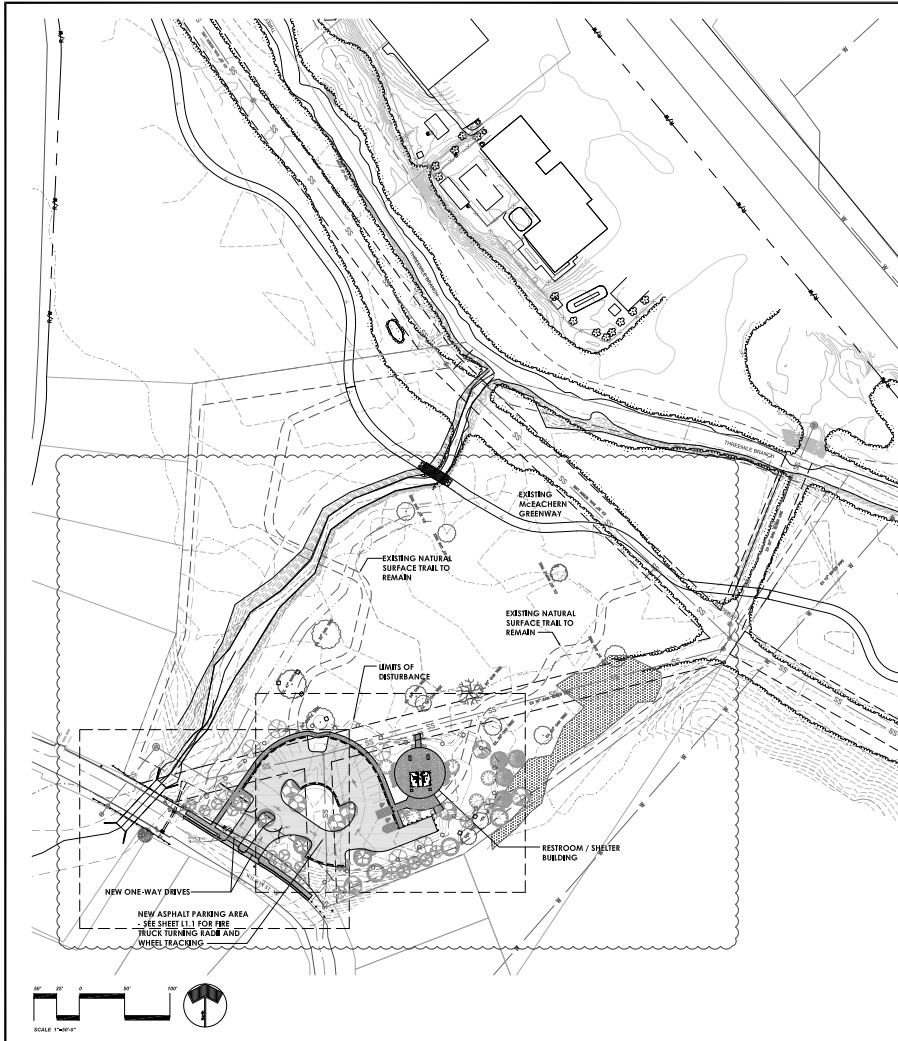
SEE ELECTRICAL DRAWINGS



City of Concord Parks and Recreation
Wilson Street Park
 106 Wilson Street, Concord, NC 28026



DATE: 06/03/2021
 NAME: _____
 APPENDIX B
 SHEET: **A 0.1**



GENERAL NOTES:

1. THE CONTRACTOR SHALL OBTAIN ALL PERMIT APPROVALS PRIOR TO BEGINNING WORK.
2. THE CONTRACTOR SHALL PREVENT DESTRUCTION OF ANY AND ALL SURVEY MONUMENTS, BENCH MARKS, PROPERTY CORNERS, AND ALL OTHER SURVEY POINTS. WHERE THE REMOVAL OF SUCH POINTS IS NECESSARY FOR ACCOMPLISHMENT OF THE WORK, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT/OWNER PRIOR TO THE DESTRUCTION.
3. THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES. THE LOCATION OF ALL EXISTING UTILITIES ARE NOT NECESSARILY SHOWN ON THE PLANS, AND WHERE SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL ON HIS OWN INITIATIVE AND AT NO ADDITIONAL COST TO THE OWNER, HAVE LOCATED ALL UNDERGROUND LINES AND STRUCTURES. NO CLAIMS FOR DAMAGES OR EXTRA COMPENSATION SHALL ACCRUE TO THE CONTRACTOR FROM THE PRESENCE OF SUCH FREE, OTHER OBSTRUCTIONS, OR FROM ANY DELAY DUE TO REMOVAL OR REARRANGEMENT OF SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO UNDERGROUND STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR CONTRACTING ALL NON-SUBSCRIBING UTILITIES. THE CONTRACTOR SHALL CONTACT **NORTH CAROLINA ONE CALL AT 811** FOR ASSISTANCE IN LOCATING UTILITIES.
4. THE CONTRACTOR SHALL COORDINATE WITH THE CITY FOR LOCATING OF ALL LIGHTING, ELECTRICAL UNDERGROUND UTILITIES, UNDERGROUND IRRIGATION LINES, AND ANY OTHER UTILITIES/LINES NOT LOCATED BY 811 SERVICES.
5. PROTECT ALL ADJACENT PROPERTIES, THE GENERAL PUBLIC, AND ALL OTHER FACILITIES. SHOULD DAMAGES OCCUR, CONTRACTOR SHALL REPAIR IMMEDIATELY AS DIRECTED BY THE TOWN. CONTRACTOR IS FINANCIALLY RESPONSIBLE FOR ALL REPAIRS, AND REPAIRS ARE TO BE PERFORMED TO THE TOWN'S SATISFACTION.
6. UTILITY SIGNS, BARRICADES, FLAGMEN, OR GUARDS AS REQUIRED TO ENSURE THE SAFETY OF ALL VEHICULAR AND PEDESTRIAN TRAFFIC DURING ALL CONSTRUCTION ACTIVITIES.
7. THE CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND PUBLIC SHALL BE PROTECTED FROM INJURY.
8. CONTRACTOR SHALL PROVIDE ALL SIGNS NECESSARY FOR CONSTRUCTION OF THE PROJECT.
9. THE CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES AND RIGHT-OF-WAYS, PUBLIC OR PRIVATE, PRIOR TO WORKING IN THESE AREAS.
10. NO CONSTRUCTION MATERIALS CAN BE STORED IN THE FLOODPLAIN.

SITE NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LINE AND GRADE, AND SURVEY STAKING OF ALL WORK AS ILLUSTRATED ON PLANS. IF EXISTING CONDITIONS DIFFER FROM THOSE ILLUSTRATED ON PLANS, NOTIFY LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
2. ALL IMPROVEMENTS SHALL BE IN ACCORDANCE WITH NCDOT, NCEDE, THE STATE OF NORTH CAROLINA, CASARRUS COUNTY, AND THE CITY OF CONCORD.
3. ALL NEW SIDEWALKS, UNLESS OTHERWISE INDICATED ON THE DRAWINGS, SHALL BE MINIMUM FIVE (5) FEET IN WIDTH AND SHALL BE MINIMUM FIVE FEET (5) CLEAR AT ALL POINTS AND MEET ALL REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA).
4. EXISTING SIDEWALK, CURB, AND ASPHALT PAVEMENT TO BE REMOVED/REPLACED SHALL BE SAW-CUT CLEAN EDGES.
5. CONCRETE JOINTS OR SCORE MARKS ARE TO BE SHARP AND CLEAN WITHOUT SHOWING EDGES OF JOINTING TOOL.
6. ALL EXCESS EXCAVATION, SITE DEBRIS, AND DEBRIS FROM CLEARING AND GRUBBING EXERCISES SHALL BE REMOVED FROM THE SITE AT THE CONTRACTOR'S EXPENSE.
7. EXCESS EXCAVATION MATERIAL REMOVAL IS THE CONTRACTOR'S RESPONSIBILITY.
8. UNLESS OTHERWISE INDICATED, ALL DISTURBED AREAS SHALL BE GRASSED WITH FESCUE SEED AND STRAW AS INDICATED IN THE DOCUMENTS.
9. ALL GRADED AREAS TO RECEIVE SEED SHALL HAVE EXISTING SOIL AMENDED TO PROPERLY PLACE PERMANENT COVER AS INDICATED IN THE DOCUMENTS OR PER CITY OF CONCORD STANDARDS.

GRADING NOTES:

1. THE SITE TOPOGRAPHY AND OTHER TOPOGRAPHIC DATA SHOWN ON THE PLANS OR INCLUDED IN THE SPECIFICATIONS ARE FOR USE BY THE CONTRACTOR. THE CONTRACTOR SHALL MAKE ADDITIONAL INVESTIGATIONS, AS REQUIRED TO ACCURATELY PROFILE ADEQUATELY WITH THE SITE, INCLUDING SUBSURFACE SOIL CONDITIONS FOR SUCCESSFUL EXECUTION OF THE WORK.
2. UNLESS OTHERWISE INDICATED, ALL PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN ARE FINISH GRADE.
3. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE PROTECTION OF HIS WORK, SUCH GRADING AS IS REQUIRED FOR THE PURPOSE SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE AT NO ADDITIONAL COST TO THE TOWN. THE OWNER MAY DIRECT THE CONTRACTOR TO PERFORM SUCH GRADING AND DRAINAGE AS NECESSARY TO PREVENT SURFACE RUNOFF FROM DAMAGING THE WORK OR OFF-SITE PROPERTIES.
4. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING ANY SOIL EROSION DAMAGE OR OFF-SITE FOR THE DURATION OF THE PROJECT USING METHODS INDICATED ON THE PLANS OR AS DIRECTED BY THE LANDSCAPE ARCHITECT.
5. SEE EROSION CONTROL REQUIREMENTS IF GRADED AREAS HAVE NO ACTIVITY FOR MORE THAN 7 DAYS.
6. ALL EXCESS EXCAVATION, SITE DEBRIS, AND DEBRIS FROM CLEARING AND GRUBBING EXERCISES SHALL BE REMOVED FROM THE SITE AT THE CONTRACTOR'S EXPENSE.
7. APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ON ADJACENT PROPERTIES BEYOND WHAT IS SHOWN, WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED IN WRITING FROM THE AFFECTED PROPERTY OWNER, AND APPROVED BY THE CITY PRIOR TO COMMENCING ANY WORK.
8. ALL EARTH FILL SHALL BE PLACED IN UNIFORM LAYERS OR LIFTS NOT EXCEEDING 7" IN COMPACTED THICKNESS.
9. ALL EARTH SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY, PLUS OR MINUS OF THE OPTIMUM MOISTURE (ASTM-678). FOR AREAS TO BE GRASSED, PERCENTAGE OF COMPACTIONS SHALL BE AS DETERMINED FOR THE INTENDED USE AND COVER.

EROSION AND SEDIMENT CONTROL NOTES:

1. ALL EROSION CONTROL MEASURES SHALL CONFORM TO THOSE SET FORTH IN THE STATE OF NORTH CAROLINA EROSION CONTROL PLANNING AND DESIGN MANUAL, COUNTY ORDINANCE, CITY ORDINANCE, OR THE MOST RESTRICTIVE OF ANY STANDARDS THAT CONFLICT.
2. LIMITS OF DISTURBANCE FOR THIS PROJECT IS LESS THAN ONE ACRE, SO AN EROSION CONTROL PERMIT IS NOT REQUIRED, HOWEVER, GRADING MORE THAN ONE ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN AND PERMIT IS A VIOLATION OF THE COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE. ALL DISTURBED AREAS MUST BE SEEDED AND MULCHED WITHIN 14 CALENDAR DAYS. CERTAIN DISTURBED AREAS ARE REQUIRED TO BE SEED/MULCHED SOONER THAN 14 DAYS. REFER TO EROSION CONTROL ORDINANCE FOR ADDITIONAL REQUIREMENTS.
3. SLOPES SHALL BE GRADED NO STEEPER THAN 3:1. FILL SLOPES GREATER THAN 10' VERTICAL REQUIRE ADEQUATE TERRACING. ANY SLOPES PROPOSED GREATER THAN 3:1 SHALL BE APPROVED BY LANDSCAPE ARCHITECT. NO SLOPES IN ANY CASE SHALL BE GREATER THAN 2:1.
4. APPROVAL OF THE PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES BEYOND WHAT IS SHOWN, WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED IN WRITING FROM THE AFFECTED PROPERTY OWNER(S), AND APPROVED BY THE CITY PRIOR TO PROCEEDING WITH THAT WORK.
5. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED EVERY 7 DAYS OR AFTER EACH RAINFALL OCCURRENCE THAT EXCEEDS 1/8" INCH. DAMAGED OR INEFFECTIVE DEVICES SHALL BE REPAIRED OR REPLACED AS NECESSARY.
6. AFTER CONSTRUCTION IS COMPLETED AND SITE STABILIZED, REMOVE ALL TEMPORARY AND PERMANENTLY VEGETATE ALL REMAINING DISTURBED AREAS THAT WERE COVERED BY TEMPORARY MEASURES.

viz
 VIZ, PLLC
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 703.997.4144
 viz@viz-nc.com

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Wilson St. Park
 Concord, NC

Concord
 PARKS & RECREATION
 1000 S. Park Street, Suite 100
 Concord, NC 28025
 703.997.4144
 parks@concordnc.com

REV.	DATE	DESCRIPTION

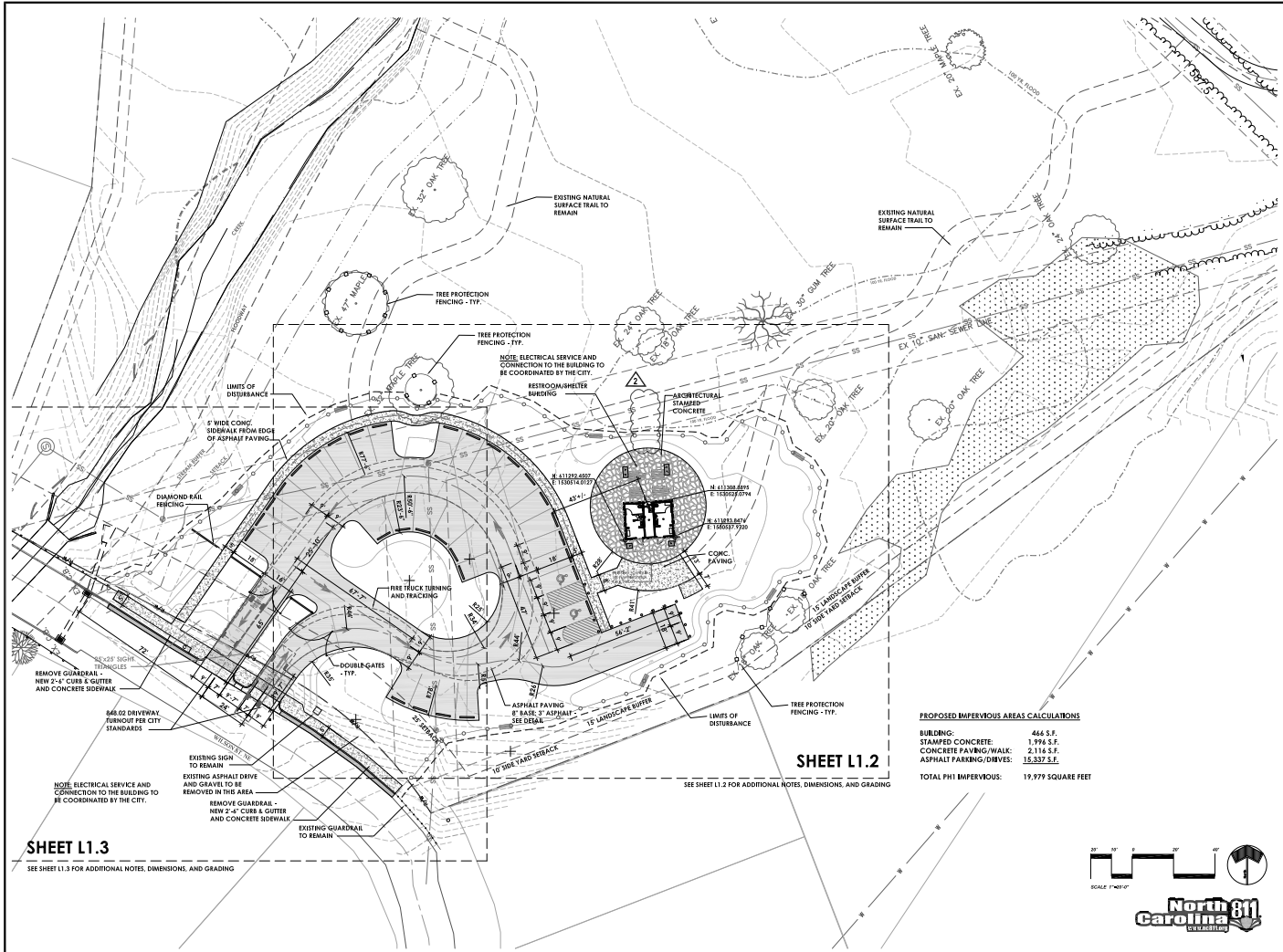
Seal of the State of North Carolina
 Seal of the City of Concord, NC
 Seal of the County of Cabarrus, NC

DATE: 7/23/2021
 SCALE: AS SHOWN
 JOB NUMBER: 20-45-1
 DESIGNED BY: GFF
 DRAWN BY: GFF

OVERALL SITE PLAN

L1.0

C:_Work\Projects\Concord\Wilson St. Park\LA_250201.dwg



SHEET L1.3
SEE SHEET L1.3 FOR ADDITIONAL NOTES, DIMENSIONS, AND GRADING

SHEET L1.2
SEE SHEET L1.2 FOR ADDITIONAL NOTES, DIMENSIONS, AND GRADING

PROPOSED IMPERVIOUS AREAS CALCULATIONS

BUILDING:	466 S.F.
STAMPED CONCRETE:	1,796 S.F.
CONCRETE PAVING/WALK:	2,114 S.F.
ASPHALT PARKING/DRIVES:	15,337 S.F.
TOTAL PHI IMPERVIOUS:	19,977 SQUARE FEET



Wilson St. Park
Concord, NC
Concord
PARKS & RECREATION

REV.	DATE	DESCRIPTION
1	08/14/2021	ISSUE FOR PERMITS
2	08/14/2021	AS-CR-24 SCALE COMMENTS

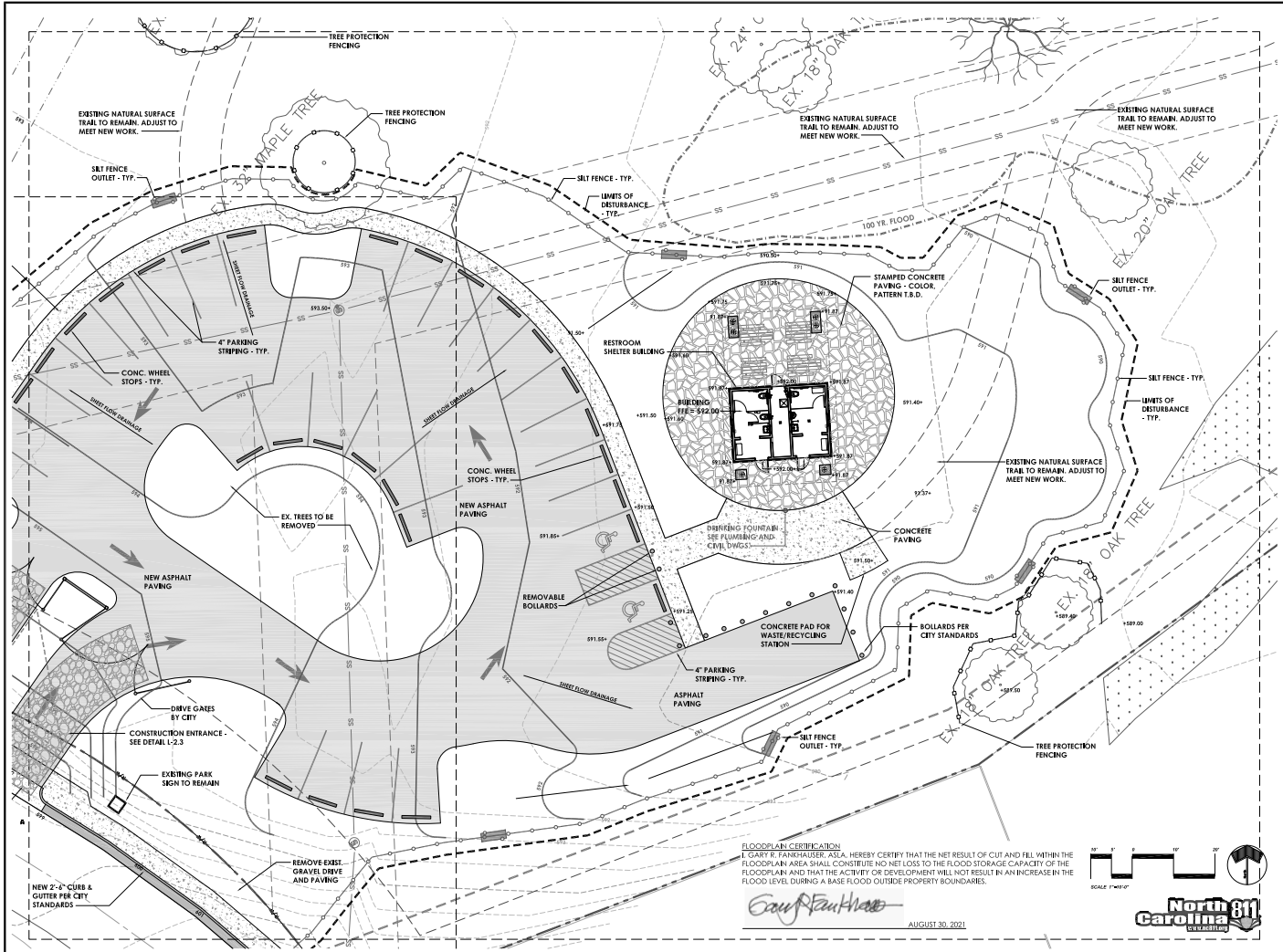


DATE: 7/23/2021
SCALE: AS SHOWN
JOB NUMBER: 20-45.1
DESIGNED BY: GRF
DRAWN BY: GRF

STAKING, PAVING,
AND GRADING PLAN

L1.1

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FLOODPLAIN CERTIFICATION
 I, CAROL P. FINKHAUSER, AS A, HEREBY CERTIFY THAT THE NET RESULT OF CUT AND FILL WITHIN THE FLOODPLAIN AREA SHALL CONSTITUTE NO NET LOSS TO THE FLOOD STORAGE CAPACITY OF THE FLOODPLAIN AND THAT THE ACTIVITY OR DEVELOPMENT WILL NOT RESULT IN AN INCREASE IN THE FLOOD LEVEL DURING A BASE FLOOD OUTSIDE PROPERTY BOUNDARIES.

Carol P. Finkhauser
 AUGUST 30, 2021



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 PARKS & RECREATION
 COMMUNITY DEVELOPMENT

REV.	DATE	DESCRIPTION
1	08/14/2021	ISSUE FOR PERMITS
2	08/14/2021	AS-BUILT COMMENT

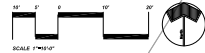
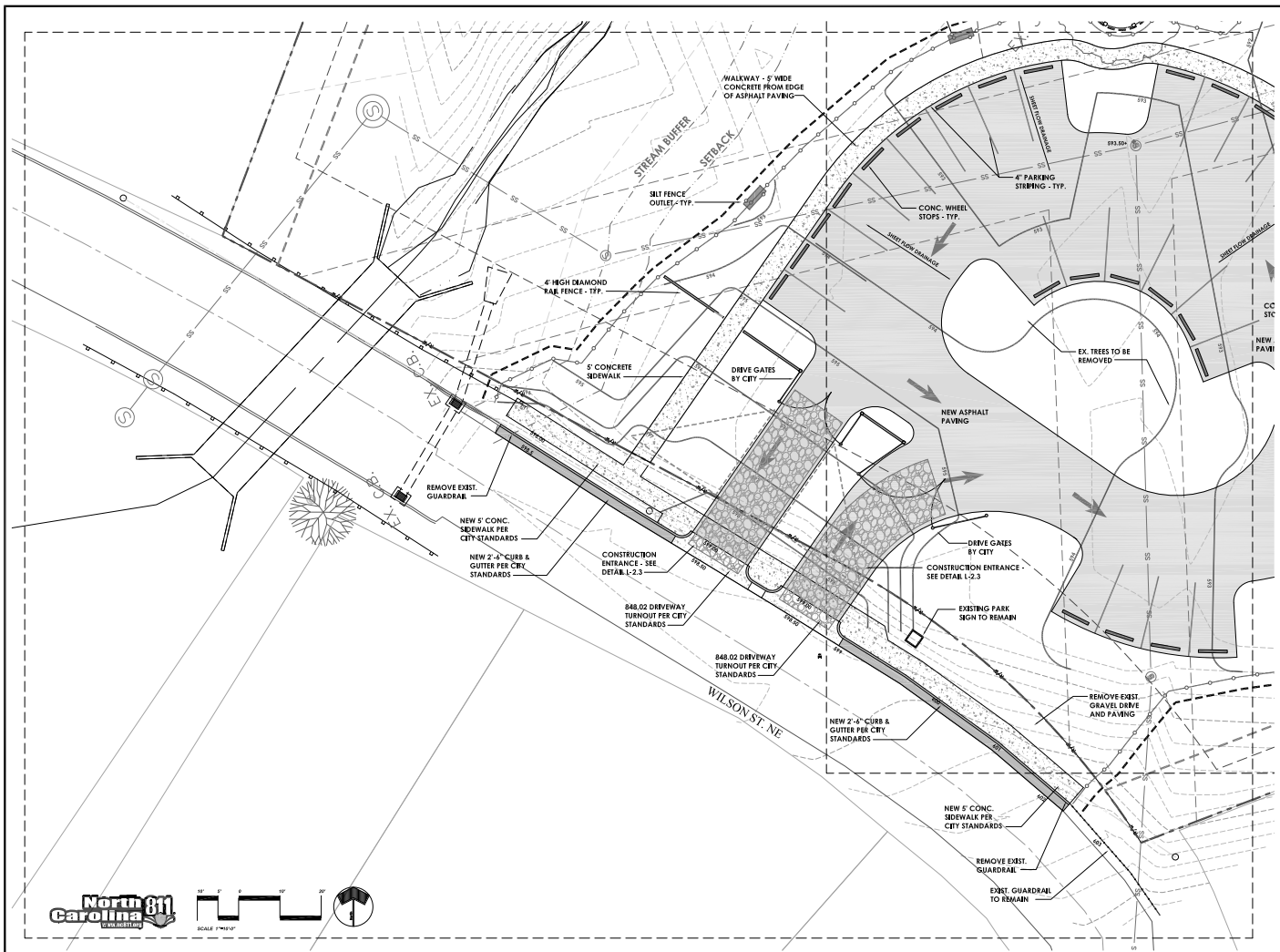


DATE: 7/23/2021
 SCALE: AS SHOWN
 JOB NUMBER: 20-4511
 DESIGNED BY: GRF
 DRAWN BY: GRF

**ENLARGED PAVING,
 GRADING, EROSION
 CONTROL PLAN**

L1.2

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REV.	DATE	DESCRIPTION
1	08/14/2021	ISSUE FOR PERMITS
2	08/14/2021	AS-CR-24-C-15-0001 COMMENTS

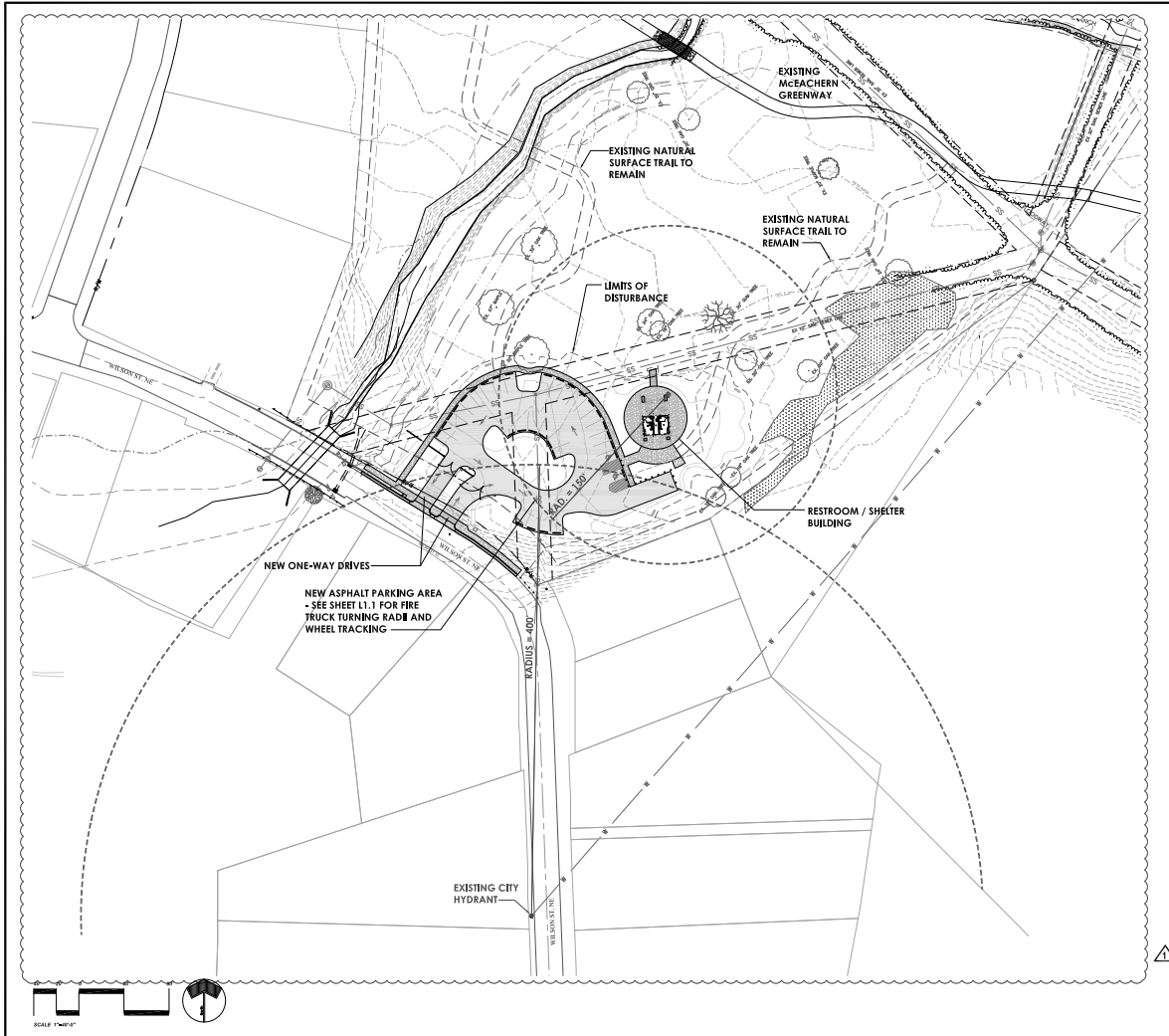


DATE: 7/23/2021
 SCALE: AS SHOWN
 JOB NUMBER: 20-45-1
 DESIGNED BY: GRF
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**ENLARGED PAVING,
 GRADING, EROSION
 CONTROL PLAN**

L1.3

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 PARKS & RECREATION

REV.	DATE	DESCRIPTION
1	08/03/2021	AS-CR-CYCLE COMMENTS

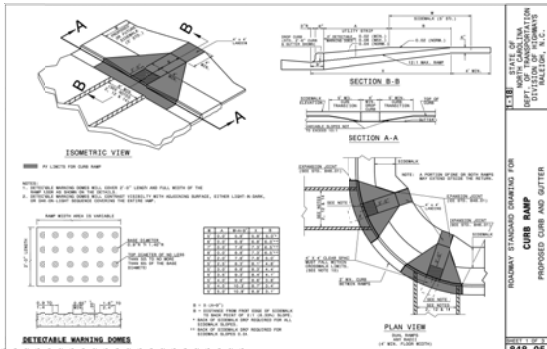
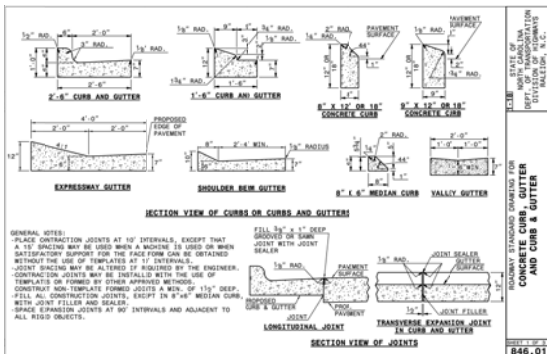


DATE: 7/23/2021
 SCALE: AS SHOWN
 JOB NUMBER: 20-45.1
 DESIGNED BY: GRF
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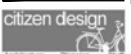
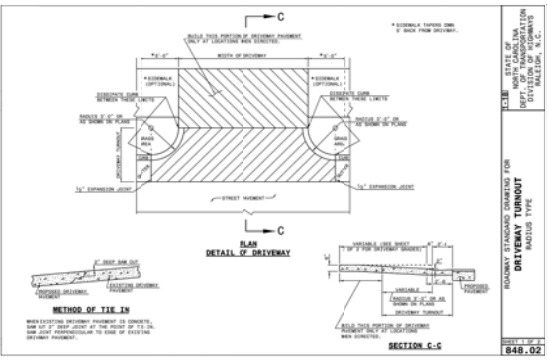
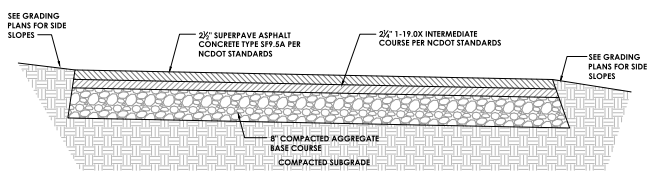
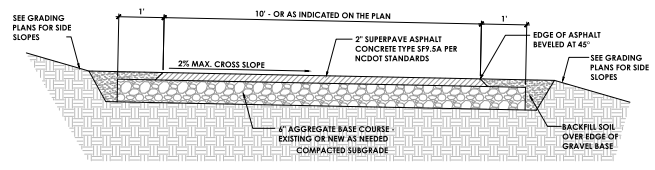
FIRE PROTECTION
SITE PLAN
L1.4



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NOTE: DETECTABLE WARNING DOME PANELS TO BE RED IN COLOR PER CITY OF CONCORD STANDARDS.



Wilson St. Park
 Concord, NC

Concord
 PARKS & RECREATION
 DEPARTMENT

DATE	7/23/2021
SCALE	AS SHOWN
JOB NUMBER	20-11
DESIGNED BY	GRF
DRAWN BY	GRF



DATE: 7/23/2021
 SCALE: AS SHOWN
 JOB NUMBER: 20-11
 DESIGNED BY: GRF
 DRAWN BY: GRF

SITE DETAILS

L2.1



Pattern Selection Guide



**B/MACRON TOOLS
Sandstone Textured Pattern:**

Small Sandstone

Consistent texture with moderate to light depth of relief and texture. Traditional sandstone variation of the pattern with large circular type layering and uniform sandy texture. Appropriate for all applications where minimal change of relief is desired.

Tool size: 36" x 32"
Stone Size: N/A
Joint Detail: 432 x .452
Stone Relief Dimension: 0.583

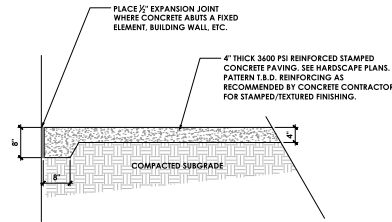
Small Sandstone



Individual stones vary in size from 8" x 10" to 16" x 20"



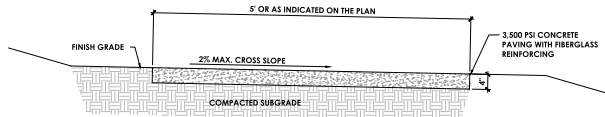
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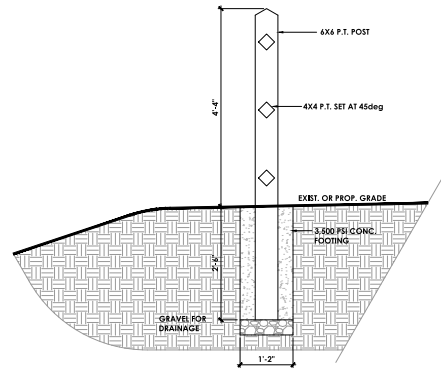
NOTES:

1. INTEGRAL COLOR SCORED CONCRETE PAVING WITH IMPRINTS AND/OR TEXTURES SHALL BE AS SHOWN ON THE DRAWINGS.
2. CONCRETE CONTRACTOR SHALL BE EXPERIENCED IN PLACING AND FINISHING ARCHITECTURAL CONCRETE.
3. EXPANSION JOINTS SHALL BE INCORPORATED WITHIN PATTERN AS DETERMINED BY CODE OR STANDARD PRACTICE.
4. EACH PATTERN/COLOR TO BE SEPARATELY POURED USING STEEL EDGE FORMS TO ACHIEVE A TRUE AND CONSISTENT RADIUS OR STRAIGHT LINE EDGE.

**ARCHITECTURAL STAMPED/TEXTURED CONCRETE PAVING SECTION
SCALE: 1"=1'-0"**



CONCRETE SIDEWALK PAVING SECTION DETAIL SCALE: 1"=1'-0"



DIAMOND RAIL FENCE DETAIL SCALE: 1"=1'-0"



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PAVING & CONSTRUCTION

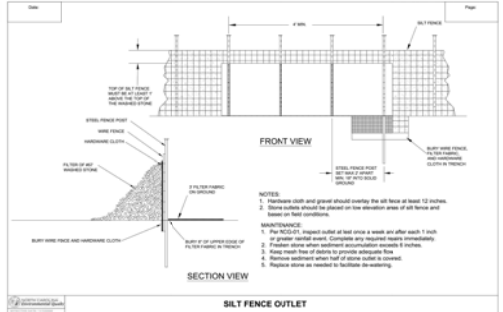
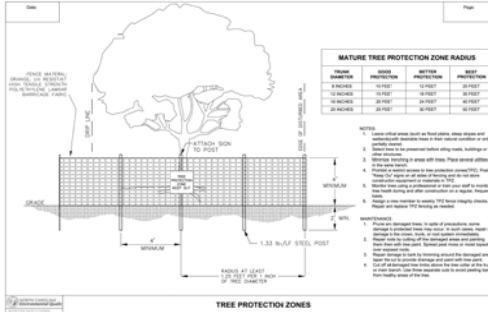
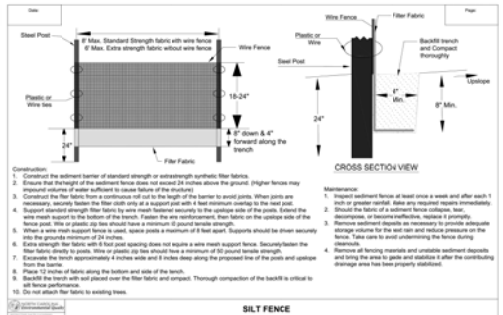
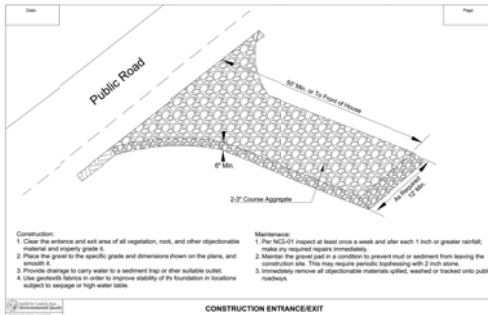
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SCALE:	AS SHOWN
JOB NUMBER:	202415
DESIGNED BY:	GRF
DRAWN BY:	GRF



DATE: 7/23/2021
SCALE: AS SHOWN
JOB NUMBER: 202415
DESIGNED BY: GRF
DRAWN BY: GRF

SITE DETAILS

L2.2



Wilson St. Park
Concord, NC

Concord
PLANNING & DESIGN

REVISIONS

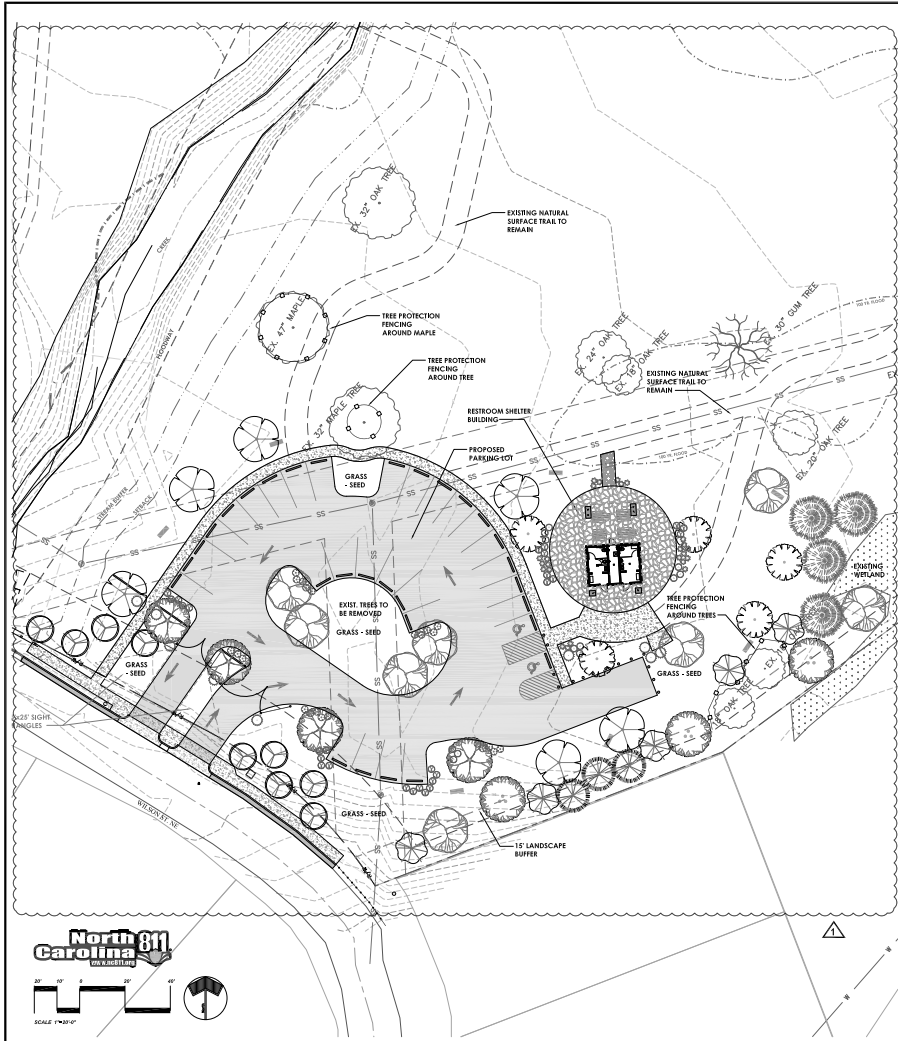
NO.	DATE	DESCRIPTION
1	10/02/2021	CONCRETE COMMENTS



DATE: 7/23/2021
SCALE: AS SHOWN
JOB NUMBER: 20415
DESIGNED BY: GRP
DRAWN BY: GRP

SITE DETAILS
L2.3





PLANT SCHEDULE

TREES	CODE	BOTANICAL NAME	COMMON NAME	SIZE	QTY
	Cc	<i>Cercis canadensis</i>	Eastern Redbud	8" HL	9
	Cy	<i>Cryptomeria japonica</i> 'Yoshino'	Yoshino Cryptomeria	8" HL	3
	Kc	<i>Koeleria paniculata</i> 'Coral Sun'	Coral Sun Golden Rain Tree	2.5' Cal.	6
	Ll	<i>Liriodendron tulipifera</i>	Tulip Poplar	2.5' Cal.	3
	Mm	<i>Magnolia x soulangiana</i>	Saucer Magnolia	8" HL	5
	Pc	<i>Pistacia chinensis</i>	Chinese Pistache	8" HL	5
	Po	<i>Platanus occidentalis</i>	American Sycamore	2.5' Cal.	4
	Oh	<i>Quercus lyrata</i> 'GLFBI' TM	Highbeam Overcup Oak	2.5' Cal.	8
	Ts	<i>Taxodium distichum</i> 'Soine' TM	Autumn Gold Bald Cypress	2.5' Cal.	4
SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	QTY
	Ig	<i>Box glabra</i>	Inkberry Holly	7 gal.	9
	Lh	<i>Lavandula angustifolia</i> 'Hidcote Blue'	Hidcote Blue Lavender	3 gal.	24
	Lp	<i>Loropetalum chinense</i> 'Purple Daydream'	Purple Daydream Loropetalum	3 gal.	23
	Aa	<i>Rhododendron x 'Conko'</i>	Autumn Amethyst	3 gal.	27
	Va	<i>Viburnum dentatum</i> 'Christon' TM	Blue Mufin Arrowwood Viburnum	3 gal.	12

- CITY OF CONCORD LANDSCAPE NOTES**
- LANDSCAPE CONTRACTOR SHALL COORDINATE AN ON-SITE MEETING WITH THE CITY ARBORIST BEFORE INSTALLATION OF ANY PLANT MATERIAL.
 - ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE ANSI A300 STANDARD FOR TREE, SHRUB, AND OTHER WOODY PLANT MANAGEMENT STANDARD PRACTICES.
 - ALL PLANT STOCK SHALL COMPLY WITH THE CURRENT EDITION OF ANSI Z60.1 AMERICAN STANDARD FOR NURSERY STOCK.
 - ALL PLANTING AREAS SHALL MEET THE REQUIREMENTS OF THE CONCORD DEVELOPMENT ORDINANCE ARTICLE 11 AND TECHNICAL STANDARDS 4-16.7.
 - HEIGHT AND WIDTH OF PLANT MATERIAL SUPERSEDES CONTAINER SIZE.
 - UTILITIES SHALL BE LOCATED BEFORE PLANTING. WWW.PC811.ORG.
 - PLANTING LOCATIONS WILL BE ADJUSTED TO PROVIDE SUFFICIENT SPACE FOR UTILITIES, EASEMENTS, STREET LIGHTING, TRAFFIC SIGNS, AND SIGN TRIANGLES. 3' CLEARANCE AROUND ALL LINES OF THE UTILITIES AND UTILITY APPURTENANCES. NO TREES SHALL BE PLANTED WITHIN 75' OF A STOP SIGN. NO PLANTS OR TREES LOCATED WITHIN TRIANGLES. 15' CLEARANCE FROM ALL STREET LIGHT POLES.
 - ANY PROPOSED REDESIGN OF THE APPROVED PLANTING PLAN OR PLANT SPECIES SUBSTITUTIONS SHALL BE APPROVED BY THE CITY ARBORIST BEFORE INSTALLATION.
 - ALL TREES AND THEIR PLANTED LOCATION SHALL BE INSPECTED BY CITY STAFF BEFORE APPROVAL. ANY PLANT MATERIAL WHICH HAS DIED, TURNED BROWN, OR DEPILATED PRIOR TO INSPECTION SHALL BE REJECTED.
 - ANY PROPOSED PRIVATE IRREGULAR MAY BE CUT BUT SHALL NOT BE PARALLEL WITHIN UTILITY EASEMENTS OR STREET RIGHT OF WAYS, AND SHALL MEET THE REQUIREMENTS OF THE CITY OF CONCORD CODE OF ORDINANCE CHAPTER 42, SECTION 42-164.

- CITY OF CONCORD LANDSCAPE REQUIREMENTS**
- U.D.O. SECTION 11.4. BUFFER YARDS**
 CLASS B TREES BUFFER YARD - CIVIC USE: PHASE 1 BUFFER LENGTH = 50' L.F. @ 0.7 POINTS/L.F. = 35.00 POINTS REQUIRED
 POINTS PROVIDED: 198 POINTS
 SHADE TREES 1.8 @ 12 P.P.E. SHAD. = 168 POINTS. ORNAMENTAL TREES - 5 @ 4 POINTS EA. = 20 POINTS
- U.D.O. SECTION 11.4. BUILDING YARDS**
 CONDO RT. BUILDING YARD - BUILDING LENGTH = 52' L.F. @ 0.5 POINTS/L.F. = 26 POINTS REQUIRED
 POINTS PROVIDED: 36 POINTS
 ORNAMENTAL TREES - 2 @ 6 POINTS EA. = 12 POINTS. EVERGREEN SHRUBS - 24 @ 1 POINT EA. = 24 POINTS
- U.D.O. SECTION 11.4. PARKING LOT YARDS**
 PROPOSED PARKING LOT = 151'2.50 FT. 10% LANDSCAPE AREA REQUIRED = 1,512.50 FT.
 LANDSCAPE AREA PROVIDED = 1,028.50 FT.
 PROPOSED PARKING SPACES = 33 SPACES @ 1 SHADE TREE & 8 SHRUBS PER SPACE = 4 SHADE TREES, 27 SHRUBS REQUIRED.
 LANDSCAPE PROVIDED = 11 SHADE TREES, 30 SHRUBS
- U.D.O. SECTION 11.7. STREET YARDS**
 CLASS B STREET YARD - STREET LENGTH = 192' L.F. @ 0.24 POINTS/L.F. = 46.10 POINTS REQUIRED
 POINTS PROVIDED: 54 POINTS
 ORNAMENTAL TREES - 9 @ 6 POINTS EA. = 54 POINTS

- NOTES**
- CONTRACTOR TO VERIFY PLANT TOTALS. IF THERE IS A CONFLICT IN PLANT TOTALS BETWEEN QUANTITIES SHOWN IN THE PLANT LEGEND AND THOSE INDICATED ON THE PLANS, THE PLANT LEGEND QUANTITIES AND SUMMARY QUANTITIES SHALL TAKE PRECEDENCE.
 - THE CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES. THE LOCATION OF ALL EXISTING UTILITIES ARE NOT NECESSARILY SHOWN ON THE PLANS, AND WHERE SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL ON HIS OWN INITIATIVE AND AT NO ADDITIONAL COST TO THE OWNER, HAVE LOCATED ALL UNDERGROUND LINES AND STRUCTURES. NO CLAIMS FOR DAMAGES OR EXTRA COMPENSATION SHALL ACCRUE TO THE CONTRACTOR FROM THE PRESENCE OF SUCH PIPE, OTHER DISTRIBUTIONS, OR FROM ANY DELAY DUE TO REMOVAL OR REARRANGEMENT OF SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO UNDERGROUND STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL NON-SUBSCRIBING UTILITIES. THE CONTRACTOR SHALL CONTACT **NORTH CAROLINA ONE CALL @ 811** FOR ASSISTANCE IN LOCATING UTILITIES. DISTURBED AREAS OTHER THAN PLANT BEDS/TREE BEDS SHALL BE SEDED WITH TALL FESCUE GRASS UNLESS OTHERWISE DIRECTED BY THE CITY.
 - THE LANDSCAPE CONTRACTOR SHALL PERFORM FINISH GRADING TO ENSURE A SMOOTH TRANSITION BETWEEN PLANT BEDS AND LAWN AREAS.
 - ALL PLANTING AND LANDSCAPE WORK SHALL BE IN ACCORDANCE WITH CURRENT CITY STANDARDS.

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CONCORD PARKS & RECREATION

REV.	DATE	DESCRIPTION
1	03/23/2021	ISSUE FOR PERMITS

DATE: 7/23/2021
 SCALE: AS SHOWN
 JOB NUMBER: 20-451
 DESIGNED BY: GFF
 DRAWN BY: GFF

PLANTING PLAN

L3.1

CITY OF CONCORD LANDSCAPE NOTES:

- LANDSCAPE CONTRACTORS SHALL COORDINATE AN ON-SITE MEETING WITH THE CITY ARBORIST BEFORE INSTALLATION OF ANY PLANT MATERIAL.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE ANSI A320 STANDARD FOR TREE, SHRUB, AND OTHER WOODY PLANT MANAGEMENT STANDARD PRACTICES.
- ALL PLANT STOCKS SHALL COMPLY WITH THE CURRENT EDITION OF ANSI Z60.1 AMERICAN STANDARD FOR NURSERY STOCK.
- ALL PLANTING AREAS SHALL MEET THE REQUIREMENTS OF THE CONCORD DEVELOPMENT ORDINANCE ARTICLE 11 AND TECHNICAL STANDARDS ARTICLE 1.
- HEIGHT AND WIDTH OF PLANT MATERIAL SUPERSEDES CONTAINER SIZE.
- UTILITIES SHALL BE LOCATED BEFORE PLANTING. WHEN NEEDED, CITY OF CONCORD UTILITIES DEPARTMENT SHALL BE CONTACTED.
- PLANTING LOCATIONS WILL BE ADJUSTED TO PROVIDE SUFFICIENT SPACE FOR UTILITIES, EASEMENTS, STREET LIGHTING, TRAFFIC SIGNS, AND RIGHT ANGLES. CLEARANCE AROUND ALL LINES OF FIRE HYDRANTS AND UTILITY APPURTENANCES, NO TREES SHALL BE PLANTED WITHIN 75' OF A STORM MAIN, NO PLANTS OR TREES LOCATED WITHIN TREE TRIANGLES, TO CLEARANCE FROM ALL STREET LIGHT POLES.
- ANY PROPOSED REDUCTION OF THE APPROVED PLANTING PLAN OR PLANT SPECIES SUBSTITUTIONS SHALL BE APPROVED BY THE CITY ARBORIST BEFORE INSTALLATION.
- ALL TREES AND SHRUB PLANTED LOCATIONS SHALL BE INSPECTED BY CITY STAFF BEFORE APPROVAL. ANY PLANT MATERIAL WHICH HAS DIED, TURNED BROWN, OR DEFOOLIATED PRIOR TO INSPECTION SHALL BE REJECTED.
- ANY PROPOSED PRIVATE IRRIGATION MAY BE SET BUT SHALL NOT RUN PARALLEL WITHIN UTILITY EASEMENTS OR STREET RIGHT OF WAY, AND SHALL MEET THE REQUIREMENTS OF THE CITY OF CONCORD CODE OF ORDINANCE CHAPTER 42, SECTION 62-114.



GRASSING SEED-SOD SPECIFICATIONS

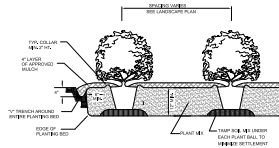
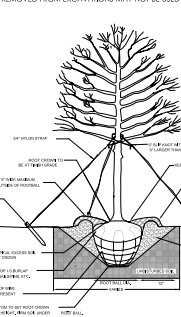
- ALL DISTURBED AREAS TO BE GRASSED AND WATERED UNTIL FINAL ACCEPTANCE BY THE TOWN**
- GRASS MATERIAL**
 - SEED: TALL FESCUE OR EQUIVALENT APPROVED BY THE CITY.
 - SEED: ANNUAL RYEGRASS SEED
- SOIL AMENDMENTS**
 - 100% NATURAL ORGANIC HUMUS COMPOST - SOLD BY SUPERFOOD, OR EQUIVALENT APPROVED BY THE CITY. SPREAD AND TILL SOILS ADDITIVE IN AMOUNT RECOMMENDED FOR TALL FESCUE.
 - BOLOMINE LIME
- MULCHES**
 - CLEAR STRAW FOR SEED PLACEMENT.
- SEEDING**
 - LOW FESCUE (CALENDAR DEPENDENT) SEED WITH SPREADER OR SEEDING MACHINE AT A RATE OF 3LBS PER 1,000 SQUARE FEET.
 - SOFT ANNUAL RYEGRASS SEED WITH SPREADER OR SEEDING MACHINE AT A RATE OF 5LBS PER 1,000 SQUARE FEET.
 - EVENLY DISTRIBUTE SEED BY SOWING EQUAL QUANTITIES IN TWO DIRECTIONS AT RIGHT ANGLES TO EACH OTHER.
 - RAKE SEED LIGHTLY INTO TOP 1/4 INCH OF SOIL. ROLL LIGHTLY, AND WATER WITH FINE SPRAY.
 - SEED STRAW MULCH AT A RATE OF 2 TONS PER ACRE TO FORM A CONTINUOUS BLANKET.


PLANTING SPECIFICATIONS

- PLANT MATERIAL**
 - FURNISH NURSERY-GROWN PLANTS INDICATED IN PLANT LEGEND SHOWN ON DRAWINGS AND COMPLYING WITH ANSI Z60.1-2014 AMERICAN STANDARD FOR NURSERY STOCK.
 - ANNUALS: PROVIDE HEALTHY, DISEASE-FREE PLANTS OF SPECIES AND VARIETY SHOWN OR LISTED, WITH WELL-DEVELOPED ROOT SYSTEMS. PROVIDE ONLY PLANTS THAT ARE ACCLIMATED TO OUTDOOR CONDITIONS BEFORE DELIVERY.
- CONTRACTOR SHALL PROVIDE A ONE YEAR WARRANTY FROM FINAL ACCEPTANCE ON ALL PLANTS UNLESS APPROVED OTHERWISE BY THE OWNER.**
- SOIL AMENDMENTS AS REQUIRED FROM SOILS REPORT TESTING**
 - LIME: ASTM C-602, AGRICULTURAL LIMING MATERIAL, CONTAINING A MINIMUM OF 80 PERCENT CALCIUM CARBONATE EQUIVALENT.
 - SULFUR: GRANULAR, BIODegradable AND CONTAINING A MINIMUM OF 90 PERCENT SULFUR AND 10 PERCENT SULFUR.
 - IRON SULFATE: GRANULATED FERROUS SULFATE CONTAINING A MINIMUM OF 20 PERCENT IRON AND 10 PERCENT SULFUR.
 - ALUMINUM SULFATE: COMMERCIAL GRADE, UNADULTERATED.
 - PERLITE: HORTICULTURAL PERLITE SOIL AMENDMENT GRADE.
 - AGRICULTURAL GYPSUM: MINIMUM 90 PERCENT CALCIUM SULFATE.
 - SAND: CLEAN, WASHED, NATURAL OR MANUFACTURED, AND FREE OF TOXIC MATERIALS.
 - COMPOST: WELL-COMPOSTED, STABLE, AND WEEPER-FREE ORGANIC MATTER; PH RANGE OF 5.5 TO 6.0; MOISTURE CONTENT 35 TO 55 PERCENT BY WEIGHT; 100 PERCENT PASSING THROUGH 3/4-INCH SIEVE.
- FERTILIZERS**
 - BONEMEAL: COMMERCIAL, RAW OR STEAMED, FINELY GROUND; A MINIMUM OF 1 PERCENT NITROGEN AND 10 PERCENT PHOSPHORUS ACID.
 - SUPERPHOSPHATE: COMMERCIAL, PHOSPHATE MIXTURE, SOLUBLE; A MINIMUM OF 20 PERCENT AVAILABLE PHOSPHORUS ACID.
 - COMMERCIAL FERTILIZER: COMMERCIAL-GRADE COMPLETE FERTILIZER OF NEUTRAL CHARACTER, COMBINING OF FAST- AND SLOW-RELEASE NITROGEN.
 - SLOW-RELEASE FERTILIZER: GRANULAR OR PELLETED FERTILIZER.
- PLANTING MIX**
 - PLANTING MIX: SHALL BE NATURAL, FERTILE, AGRICULTURAL TOPSOIL, CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH WITH PH RANGE OF 5.5 TO 7.0. IT MAY BE DEVELOPED BY AMENDING THE EXISTING SOIL, OR REMOVING THE EXISTING SOIL, AND REPLACING WITH NEW SOIL. IT SHALL BE FREE OF ROOTS, PLANTS, SOIL, STONES, CLUMPS, CLAY LUMPS, POCKETS OF COARSE SAND, CONCRETE SLURRY, CONCRETE LAYERS OR CHUNKS, CEMENT, PLASTER, BUILDING DEBRIS, AND OTHER STRANDED MATERIALS HARMFUL TO PLANT GROWTH. PLANTING MIX SHALL NOT BE USED WHEN IN A POZZOLAN OR MORTAR CONDITION, UNLESS OTHERWISE SPECIFIED. THE PLANTING MIX SHALL CONTAIN THE FOLLOWING PERCENTAGES:
 - CLAY: MIN 10% - MAX 30% (RED CLAY WILL PREFER); CLAY SHALL BE STERILE.
 - LIT: MIN 30% - MAX 50%
 - COARSE SAND: MIN 30% - MAX 45% (1.0mm to 0.5mm DIA., AND FREE OF ROCK)
 - ORGANIC MAT: MIN 5% (COMPOST/HUMUS SUCH AS SAWDUST OR LEAF MOLD THAT IS DECOMPOSED)
 - ELEMENTS: CALCIUM 55% - 80%, MAGNESIUM 10% - 30%, POTASSIUM 2% - 8%
- CONTRACTOR TO PROVIDE SOIL TEST ANALYSIS INDICATING ABOVE REQUIREMENTS.**
- MULCHES**
 - DOUBLE HANDED HARDWOOD MULCH FOR ALL PLANT BEDS UNLESS OTHERWISE INDICATED.
- PLANT BED ESTABLISHMENT**
 - LAYOUT PLANT BEDS AS INDICATED ON THE PLANTING PLAN AND REMOVE UNNECESSARY MATERIAL TO A MINIMUM DEPTH OF 18 INCHES.
 - LOOSEN SUBGRADE OF PLANTING BEDS TO A MINIMUM DEPTH OF 6 INCHES. REMOVE STONES LARGER THAN 1 INCH IN ANY DIMENSION AND STEEL, RUBBER, AND OTHER STRANDED MATERIAL AND LEGALLY DEPOSE OF THEM OFF OWNER'S PROPERTY.
 - SPREAD PLANTING MIX USE 4 INCHES TO A DEPTH OF 18 INCHES BUT NOT LESS THAN REQUIRED TO MEET FINISH GRADES AFTER NATURAL SETTLEMENT. DO NOT SPREAD IF PLANTING MIX OR SUBGRADE IS FROZEN, MADDY, OR EXCESSIVELY WET.
 - FINISH GRADING: GRAD PLANTING BEDS TO A SMOOTH, UNIFORM SURFACE PLANE WITH LOOSE, UNIFORMITY OF THE TEXTURE. ROLL AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISH GRADES.
- EXCAVATION FOR TREES AND SHRUBS**
 - PLANTING BEDS AND TRENCHES: EXCAVATE CIRCULAR PLANTING PITS WITH SIDES SLOPING INWARD AT A 45-DEGREE ANGLE. EXCAVATIONS WITH VERTICAL SIDES ARE NOT ACCEPTABLE. TRIM PERIMETER OF BOTTOM LEAVING CENTER AREA OR BOTTOM RAKE(S) TO SUPPORT ROOT BALL AND ASSIST IN DRAINAGE AWAY FROM CENTER. DO NOT FURTHER DISTURB BASE. ENSURE THAT ROOT BALL WILL BE ON UNDISTURBED BASE SOIL TO PREVENT SETTLING. SCARIFY SIDES OF PLANTING PIT SMOOTHED OR SMOOTHED DURING EXCAVATION.
 - EXCAVATE APPROXIMATELY THREE TIMES AS WIDE AS BALL DIAMETER.
 - DO NOT EXCAVATE DEEPER THAN DEPTH OF THE ROOT BALL, MEASURED FROM THE ROOT BALL TO THE BOTTOM OF THE ROOT BALL.
 - SUBSOIL AND TOPSOIL, REMOVED FROM EXCAVATIONS MAY NOT BE USED SOLELY AS PLANTING MIX (SEE NOTE 4 ABOVE).


PLANTING SPECIFICATIONS (CONT)

- TREE, SHRUB, AND VINE PLANTING**
 - BEFORE PLANTING: VERIFY THAT ROOT FLARE IS VISIBLE AT TOP OF ROOT BALL ACCORDING TO ANSI Z60.1.
 - REMOVE SEED, GROWING ROOTS AND NERKED ROOTS. REMOVE INJURED ROOTS BY CUTTING CLEANLY; DO NOT BREAK.
 - SET STOCK PLUMB AND IN CENTER OF PLANTING PIT OR TRENCH WITH ROOT FLARE 1 INCH ABOVE ADJACENT FINISH GRADE.
 - USE PLANTING SOIL FOR BACKFILL.
 - BAULETS AND BAULFILL: AFTER PLACING SOME BACKFILL AROUND ROOT BALL TO STABILIZE PLANT, CAREFULLY CUT AND REMOVE BURLAP, ROPE, AND WIRE BASKETS FROM TOPS OF ROOT BALLS AND FROM SIDES, BUT DO NOT REMOVE FROM UNDER ROOT BALLS. REMOVE PALLET, IF ANY, BEFORE SETTING. DO NOT USE PLANTING STOCK IF ROOT BALL IS CRACKED OR BROKEN BEFORE OR DURING PLANTING OPERATION.
 - CONTAINER-GROWN: CAREFULLY REMOVE ROOT BALL FROM CONTAINER WITHOUT DAMAGING ROOTBALL OR PLANT.
 - BACKFILL: AROUND ROOT BALL IN LAYERS, TAMPING TO SETTLE SOIL AND ELIMINATE VOIDS AND AIR POCKETS. WHEN PLANTING PIT IS APPROXIMATELY ONE-HALF FILLED, WATER THOROUGHLY BEFORE PLACING REMAINDER OF BACKFILL. REPEAT WATERING UNTIL NO MORE WATER IS ABSORBED.
 - CONTINUE BACKFILLING PROCESS. WATER AGAIN AFTER PLACING AND TAMING FINAL LAYER OF SOIL.
 - WHEN PLANTING ON SLOPES, SET THE PLANT SO THE ROOT FLARE ON THE UPHILL SIDE IS FLUSH WITH THE SURROUNDING SOIL ON THE SLOPE. THE EDGE OF THE ROOT BALL ON THE DOWNHILL SIDE WILL BE ABOVE THE SURROUNDING SOIL. APPLY ENOUGH SOIL TO COVER THE DOWNHILL SIDE OF THE ROOT BALL.
 - PRUNE: REMOVE ONLY DEAD, DYING, OR BROKEN BRANCHES. DO NOT PRUNE FOR SHAPE. PRUNE TO RETAIN NATURAL CHARACTER.
 - PRUNE THIN AND SHARP TREES, SHRUBS, AND VINES ACCORDING TO STANDARD PROFESSIONAL HORTICULTURAL AND ARBORICULTURAL PRACTICES FOR NEWLY PLANTED PLANTS, UNLESS OTHERWISE INDICATED BY LANDSCAPE ARCHITECT; DO NOT CUT TREE LEADERS.
- GROUND COVER, PERENNIAL AND ANNUAL PLANTING**
 - SET OUT AND SPACE GROUND COVER, PERENNIALS, AND/OR ANNUALS AS INDICATED IN EVEN ROWS WITH TRIANGULAR SPACING.
 - USE PLANTING MIX FOR BACKFILL.
 - CUT HOLES LARGE ENOUGH TO ALLOW SPREADING OF ROOTS.
 - WORK SOIL AROUND ROOTS TO ELIMINATE AIR POCKETS AND LEAVE A SHOT SAUCER INDENTATION AROUND PLANTS TO HOLD WATER.
 - EASE WATER THOROUGHLY AFTER PLANTING. TAMING CARE NOT TO COVER PLANT CROWNS WITH WET SOIL.
 - PROTECT PLANTS FROM HOT SUN AND WIND; REMOVE PROTECTION IF PLANTS SHOW EVIDENCE OF RECOVERY FROM TRANSPLANTING SHOCK.
- PLANT AND PLANT BED MULCHING**
 - MULCH BACKFILLED SURFACES OF PLANTING BEDS AND OTHER AREAS INDICATED.
 - TREES AND TREESHOPS: SHRUBS IN TURTLE AREAS: APPLY ORGANIC MULCH BAG OF 3/4" SHOWN AVERAGE THICKNESS, WITH MINIMUM BRANCH RADII AROUND TRUNKS OR STEMS. DO NOT PLACE MULCH WITHIN 2 INCHES OF TRUNKS OR STEMS.
 - ORGANIC MULCH IN PLANT BEDS: APPLY 3 INCH AVERAGE THICKNESS OF MULCH OVER ENTIRE SURFACE OF PLANT BED, AND FINISH LEVEL WITH ADJACENT FINISH GRADES. DO NOT PLACE MULCH WITHIN 2 INCHES OF TRUNKS OR STEMS.
- PLANT MAINTENANCE**
 - WATERING: PLANTING BY PRUNING, CULTIVATING, WATERING, WEEDING, FERTILIZING, MULCHING, RESTORING PLANTING SAUCERS, RESTITING TO PROPER GRADES OR VERTICAL POSITION, AND PERFORMING OTHER OPERATIONS AS REQUIRED TO ESTABLISH HEALTHY VIBRANT PLANTINGS. SPRAY OR TREAT AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE.
 - SET IRRIGATION SYSTEM FOR LONG DURATION APPLICABLE FOR NEWLY PLANTED PLANTS IF APPLICABLE.
 - ILL IN AS NECESSARY SOIL SUBSTRATE THAT MAY OCCUR BECAUSE OF SETTLING OR OTHER PROCESS. REPLACE MULCH MATERIALS DAMAGED OR LOST IN AREAS OF SUBSTRATE.
 - APPLY TREATMENTS AS REQUIRED TO KEEP PLANT MATERIALS, PLANTED AREAS, AND SOILS FREE OF PESTS AND PATHOGENS OR DISEASE. USE PRACTICES TO MINIMIZE THE USE OF PESTICIDES AND REDUCE HAZARDS.
 - APPLY PESTICIDES AND OTHER CHEMICAL PRODUCTS AND BIOLOGICAL CONTROL AGENTS IN ACCORDANCE WITH AUTHORITIES HAVING JURISDICTION AND MANUFACTURERS' WRITTEN RECOMMENDATIONS. COORDINATE APPLICATIONS WITH OWNERS OPERATING AND OTHERS IN PROXIMITY TO THE WORK. NOTIFY OWNER BEFORE EACH APPLICATION IS PERFORMED.
 - PROTECT PLANTS FROM DAMAGE DUE TO LANDSCAPE OPERATIONS AND OPERATIONS OF OTHER CONTRACTORS AND TRUCKS. MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIODS. TREAT, REPAIR, OR REPLACE DAMAGED PLANTINGS.





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Citizen Design
 Landscape Architecture & Planning

**Wilson St. Park
 Concord, NC**

Concord
 PARKS & RECREATION

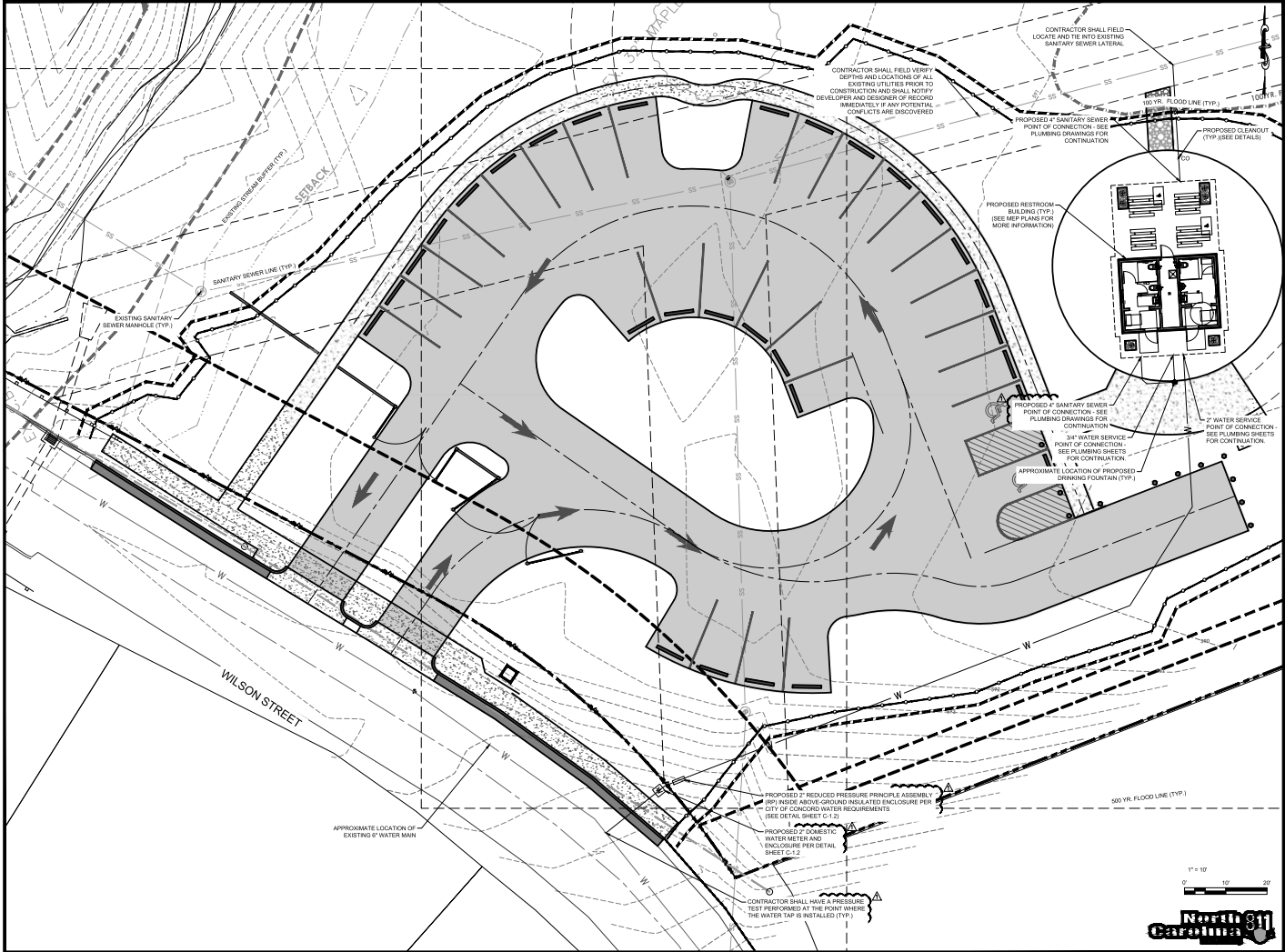
REV.	DATE	DESCRIPTION

DATE: 7/23/2021
 SCALE: AS SHOWN
 JOB NUMBER: 20-411
 DESIGNED BY: GFF
 DRAWN BY: GFF

PLANTING PLAN

L3.2



Dewberry Engineers Inc.
 10000 Woodloch Forest Dr., Suite 200
 Charlotte, NC 28226
 Phone: 704.269.2118
 Fax: 704.269.8111
 www.dewberry.com
 NCEES # 4542
 Engineer No. 02-00018



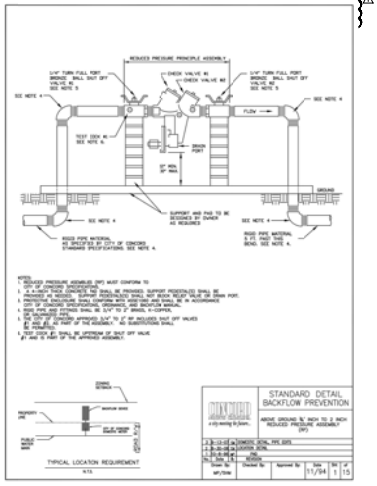
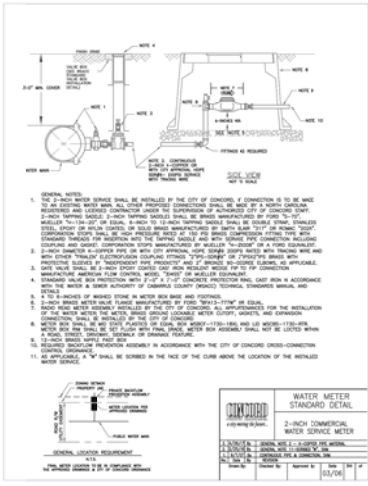
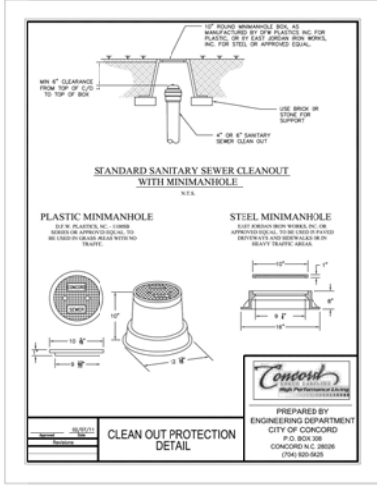
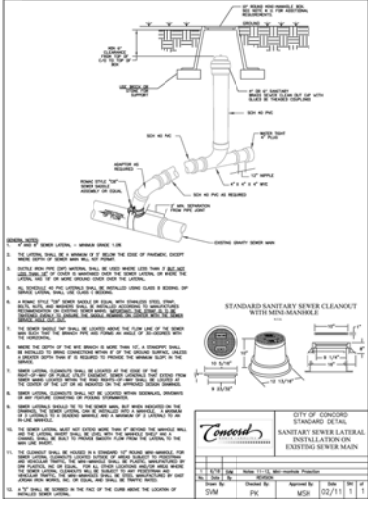
Wilson Street Park
 106 Wilson Street, NE
 Concord, North Carolina 28025
 City of Concord
 Parks & Recreation Department

REV.	DATE	DESCRIPTION
1	07/29/2021	ASSEMBLY COMMENTS



DATE: 07/29/2021
 SCALE: AS SHOWN
 JOB NUMBER: 20140319
 DESIGNED BY:
 DRAWN BY:

UTILITY PLAN
C-1.1



Dowberry
Dowberry Engineers Inc.
288 North Carolina Street, Suite 200
Durham, NC 27601
Phone: 919.286.9174
Fax: 919.286.9175
www.dowberry.com
NCEES # 0002
Dowberry P.E. No. 50146319

Concord
High Performance Living

Wilson Street Park
106 Wilson Street, NE
Concord, North Carolina 28025
City of Concord
Parks & Recreation Department

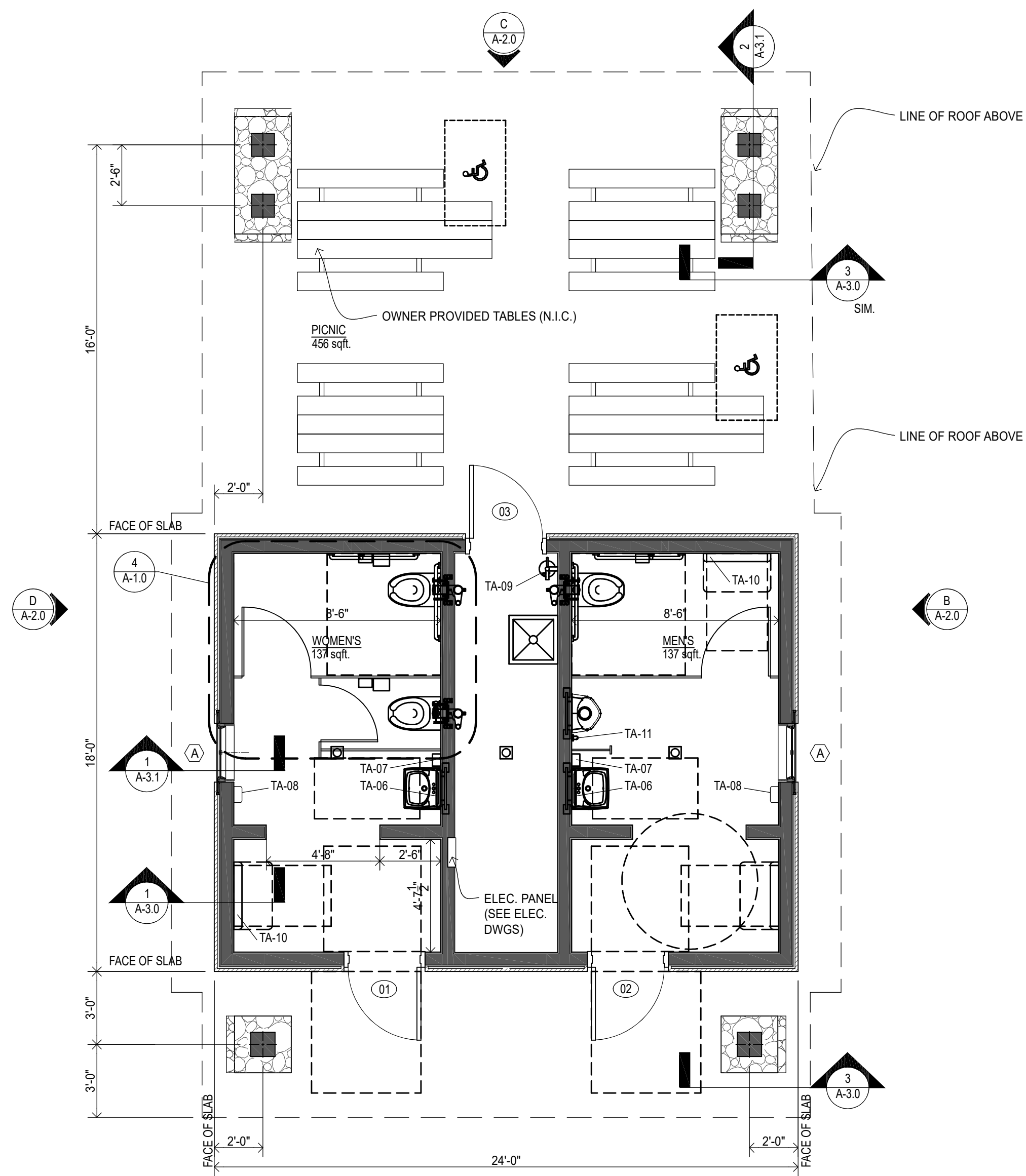
REV. #	DATE	DESCRIPTION
1		FOR APPROVAL - CONTRACT

DATE: 07/28/2023
SCALE: AS SHOWN
JOB NUMBER: 50146319
DESIGNED BY:
DRAWN BY:

UTILITY DETAILS

C-1.2

North Carolina



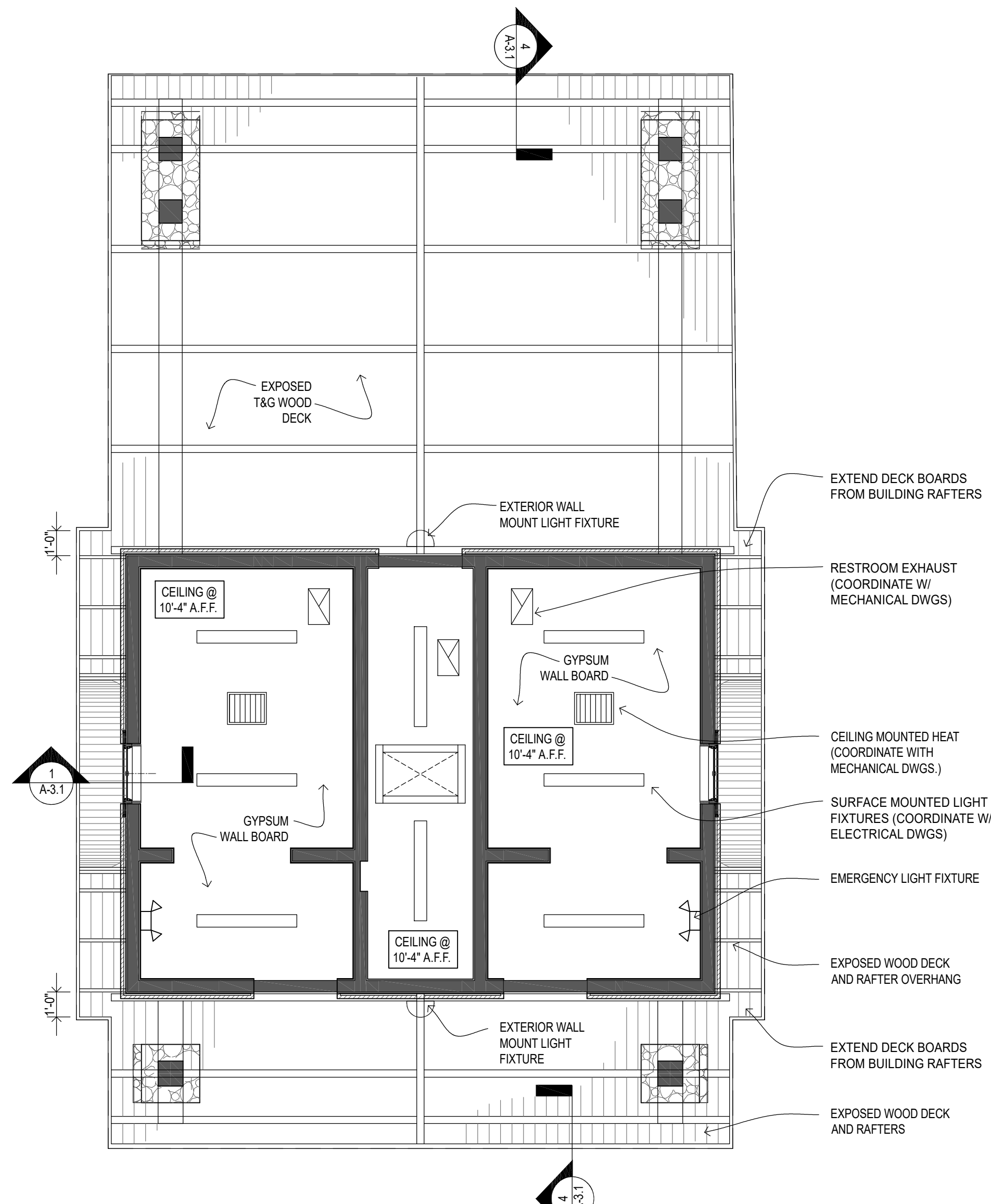
1 FLOOR PLAN
A1.0 SCALE: 1/4" = 1'-0"

FLOOR PLAN SYMBOL KEY:

- 2x6 @ WOOD STUDS AT 16" O.C. (SEE DRAWING A-3.0)
- NEW THIN CUT STONE VENEER (SEE NOTES ON A2.0)

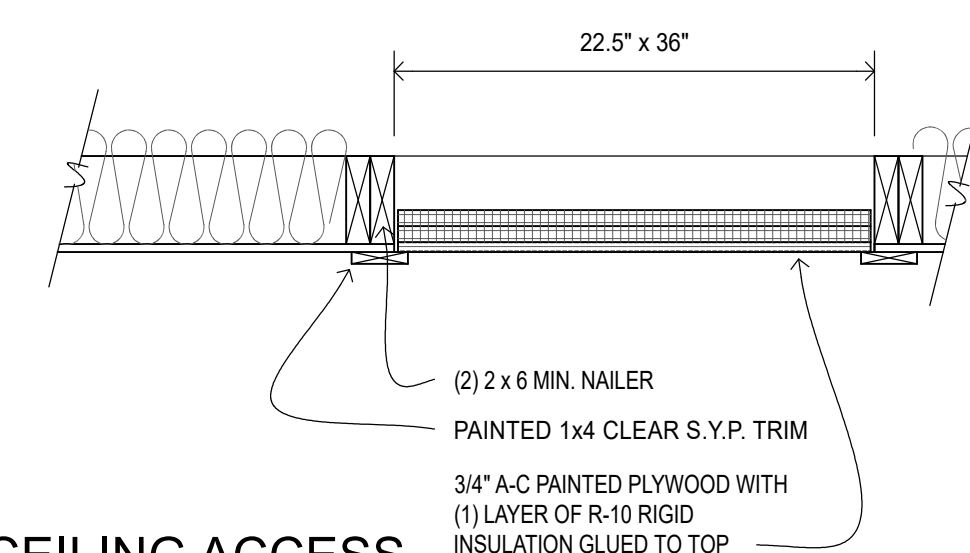
- FLOOR PLAN NOTES:**
- INTERIOR DIMENSIONS SHOWN ON FLOOR PLAN ARE FROM FACE OF FINISH WALL
 - EXTERIOR DIMENSIONS SHOWN ARE FROM FACE OF FOUNDATION WALL
 - MAXIMUM CROSS SLOPE OF ANY FLOOR SURFACE SHALL NOT EXCEED 1:48
 - INTERIOR CONCRETE FLOOR SLAB: COORDINATE WITH INSTALLER FOR CURING AND PREPARATION. SMOOTH LIGHT TROWEL FINISH. DO NOT HARD TROWEL.
 - EXTERIOR CONCRETE (IN NON-STAMPED FINISH AREAS) TO HAVE LIGHT BROOM FINISH. E.J. - EXPANSION JOINT WITH TOOLED EDGES. C.J. - CONTROL JOINT WITH TOOLED EDGES ON EXTERIOR AND SAW CUT INTERIOR. (SEE FOUNDATION PLAN FOR ADDITIONAL JOINT LOCATIONS)
 - COORDINATE UTILITY AND CONDUIT ROUGH-INS WITH MEP AND SITE DRAWINGS.
 - FOUNDATIONS AND SLABS TO REST ON UNDISTURBED SUITABLE SOIL OR SELECT STRUCTURAL FILL COMPACTED TO 100% MAXIMUM DRY DENSITY. 2,000PSF MINIMUM SOIL BEARING PRESSURE
 - PROVIDE POSITIVE DRAINAGE AROUND AND AWAY FROM BUILDING.

- GENERAL NOTES:**
- GENERAL CONTRACTOR TO USE AND CROSS-REFERENCE ALL CONTRACT DOCUMENTS. THEY ARE COMPLEMENTARY TO ONE ANOTHER. THE CONTRACTOR MUST COORDINATE ACROSS ALL CONTRACT DOCUMENTS AND DISCIPLINES INCLUDING PROJECT DRAWINGS, PROJECT SPECIFICATIONS, ADDENDUM, AND WRITTEN DIRECTIVES FROM THE ARCHITECT. REPORT ANY DISCREPANCIES BETWEEN CONTRACT DOCUMENTS TO THE ARCHITECT PRIOR TO COMMENCING WORK.
 - FURNISH ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR COMPLETION AND OPERATION OF THIS PROJECT IN ACCORDANCE WITH ALL APPLICABLE CODES.
 - CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. DISCREPANCIES BETWEEN FIELD DIMENSIONS AND OR CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION BEFORE COMMENCING WORK.
 - CONTRACTOR RESPONSIBLE FOR SAFE DELIVERY AND STORAGE OF ALL MATERIALS.
 - ALTERATIONS, CHANGES OR SUBSTITUTIONS TO THE CONTRACT DOCUMENTS PERFORMED WITHOUT THE OWNERS WRITTEN APPROVAL SHALL BE CORRECTED AT THE CONTRACTORS EXPENSE.
 - ALL CONTRACTORS AND ALL SUB CONTRACTORS SHALL HAVE A COMPLETE SET OF CONTRACT DOCUMENTS AT ALL TIMES TO ENSURE COORDINATION OF BUILDING ELEMENTS THAT ARE DETAILED ACROSS SEVERAL DISCIPLINES.
 - CONSTRUCTION MEANS AND METHODS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NO DIRECTION IS GIVEN OR IMPLIED BY THE DESIGN PROFESSIONAL TO REVIEW, SUPERVISE OR APPROVE CONSTRUCTION MEANS AND METHODS.



2 REFLECTED CEILING PLAN
A1.0 SCALE: 1/4" = 1'-0"

- REFLECTED CEILING NOTES:**
- GYPSUM WALLBOARD CEILING:
 - APPLY ONE LAYER OF 1/2" M.M.R.G.W.B. TO UNDERSIDE OF ALL INTERIOR CEILING JOISTS.
 - SEE PLAN FOR FINISH CEILING HEIGHTS.
 - NEW ATTIC ACCESS DOOR:
 - SEE DETAIL 5A1.0
 - EXPOSED 2x6 T&G DECK BOARDS WITH V-GROOVED EDGES. SOUTHERN YELLOW PINE No. 1
 - COORDINATE WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR CEILING FIXTURE LOCATIONS.



5 CEILING ACCESS
A1.0 SCALE: 1" = 1'-0"

TOILET PARTITIONS: (SEE REQUIRED W.C. CLEARANCES A-1.0)

SOLID THRU-COLOR REINFORCED COMPOSITE FLOOR MOUNTED, OVERHEAD BRACED WITH HEAVY-GAUGE INSTITUTIONAL TYPE 304 STAINLESS STEEL. FULL HEIGHT HARDWARE AND TAMPER RESISTANT FASTENERS. (BOBRICK 1092.67 SierraSeries OR EQUAL).

- 3/4" THICK STILES AND 1/2" THICK PANELS
- SOLID COLOR FOR FULL THICKNESS, NON-GHOSTING GRAFFITI REMOVAL.
- URINAL SCREENS TO BE 18" W x 48" TALL, OVERHEAD BRACE W/ 4" STYLE. BOTTOM OF PARTITION SHALL BE AT AT 12" A.F.F.
- WALL PARTITION SUPPORTS SHALL BE FULL LENGTH.
- STAINLESS STEEL INSTITUTIONAL GRADE HARDWARE TO INCLUDE COAT HOOK, DOOR STOPS, LATCH AND PULLS ON BOTH SIDES OF DOOR.
- FULL HEIGHT SELF CLOSING PARTITION DOOR HINGES
- PROVIDE STAINLESS STEEL IN LINE STYLE STIFFENER PACKET FOR MENS STALL
- 15-YEAR WARRANTY
- PARTITIONS TO MEET ACCESSIBILITY REQUIREMENTS OF ANSI117.1 2017

- NEW TOILET ACCESSORIES:** (SEE REQUIRED MOUNTING HEIGHTS A-1.1)
- O.P.C.I. - OWNER PROVIDED CONTRACTOR INSTALLED
 - CONTRACTOR TO PROVIDE 2x BLOCKING BEHIND ALL WALL AND CEILING MOUNTED TOILET ACCESSORIES AND PARTITIONS.
 - TA-1: O.P.C.I. - SINGLE ROLL TOILETTE PAPER DISPENSER
 - TA-2: SANITARY NAPKIN DISPOSAL: STAINLESS STEEL 22 GA. RADIUSED CORNERS ALL WELDED, PIANO HINGE (BOBRICK B-270 OR APPROVED EQUAL).
 - TA-3: 18GA STAINLESS STEEL GRAB BAR 1-1/2" Ø x42"
 - TA-4: 18GA STAINLESS STEEL GRAB BAR 1-1/2" Ø x36"
 - TA-5: 18GA STAINLESS STEEL GRAB BAR 1-1/2" Ø x18" (VERTICAL)
 - TA-6: 18"x36" MIRROR WITH WELDED STAINLESS STEEL FRAME. SHATTER PROOF GLASS (BOBRICK B-2908 OR EQUAL)
 - TA-7: O.P.C.I. - PLASTIC FOAM SOAP DISPENSER
 - TA-8: ELECTRIC HAND DRIER - XLERATOR, MODEL: THINAIR TS-SB W/ STAINLESS COVER COORDINATE WITH ELECTRICAL DRAWINGS
 - TA-9: FIRE EXTINGUISHER: WALL MOUNTED, MINIMUM RATED 2-A, TYPE ABC
 - TA-10: BABY CHANGING STATION: KOALA KARE PRODUCTS KB110-SSWM. 4" MAX PROJECTION
 - TA-11: 18GA STAINLESS STEEL GRAB BAR 1-1/2" Ø x24" (VERTICAL)

LIFE SAFETY LEGEND

OCCUPANCY SYMBOL	OCCUPANCY CLASSIFICATION	OCCUPANCY LOAD ALLOWABLE AREA PER OCCUPANT
XX	XX	AREA (sqft)

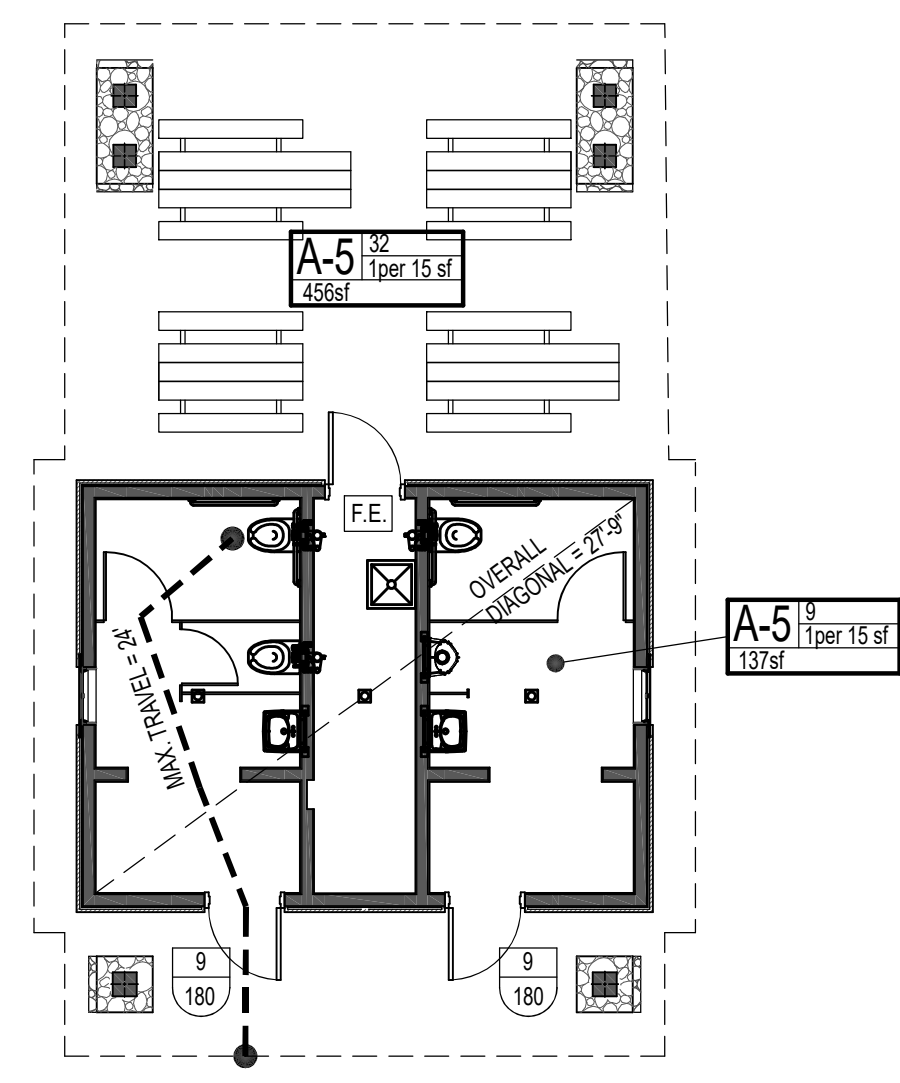
EGRESS OPENING SYMBOL: XX (with arrows) - ACTUAL OCCUPANT LOAD OF OPENING

EGRESS STAIR/ RAMP SYMBOL: XX (with arrows) - ACTUAL OCCUPANT LOAD OF OPENING

OVERALL DIAGONAL OF AREA SERVED: Dashed line

MAXIMUM TRAVEL DISTANCE IN SPACE: Dashed line with arrows

F.E. - PORTABLE ABC FIRE EXTINGUISHER



3 LIFE SAFETY PLAN
A1.0 SCALE: 1/8" = 1'-0"

ISO REQUIRED FIRE FLOW

$NFF = (C_i)(O_i) [1.0 + (X + P)]$

$= (870.72)(.85) [1.0 + (0)]$

$= 637\text{GPM}$

WHERE:

NFF = NEEDED FIRE FLOW (GPM)

$C_i = 18F (\sqrt{A})$

$F = 1.5$ FOR WOOD FRAME CONSTRUCTION

A = AFFECTIVE AREA = 1,040sqft. UNDER ROOF

$= 18(1.5)(\sqrt{1,040})$

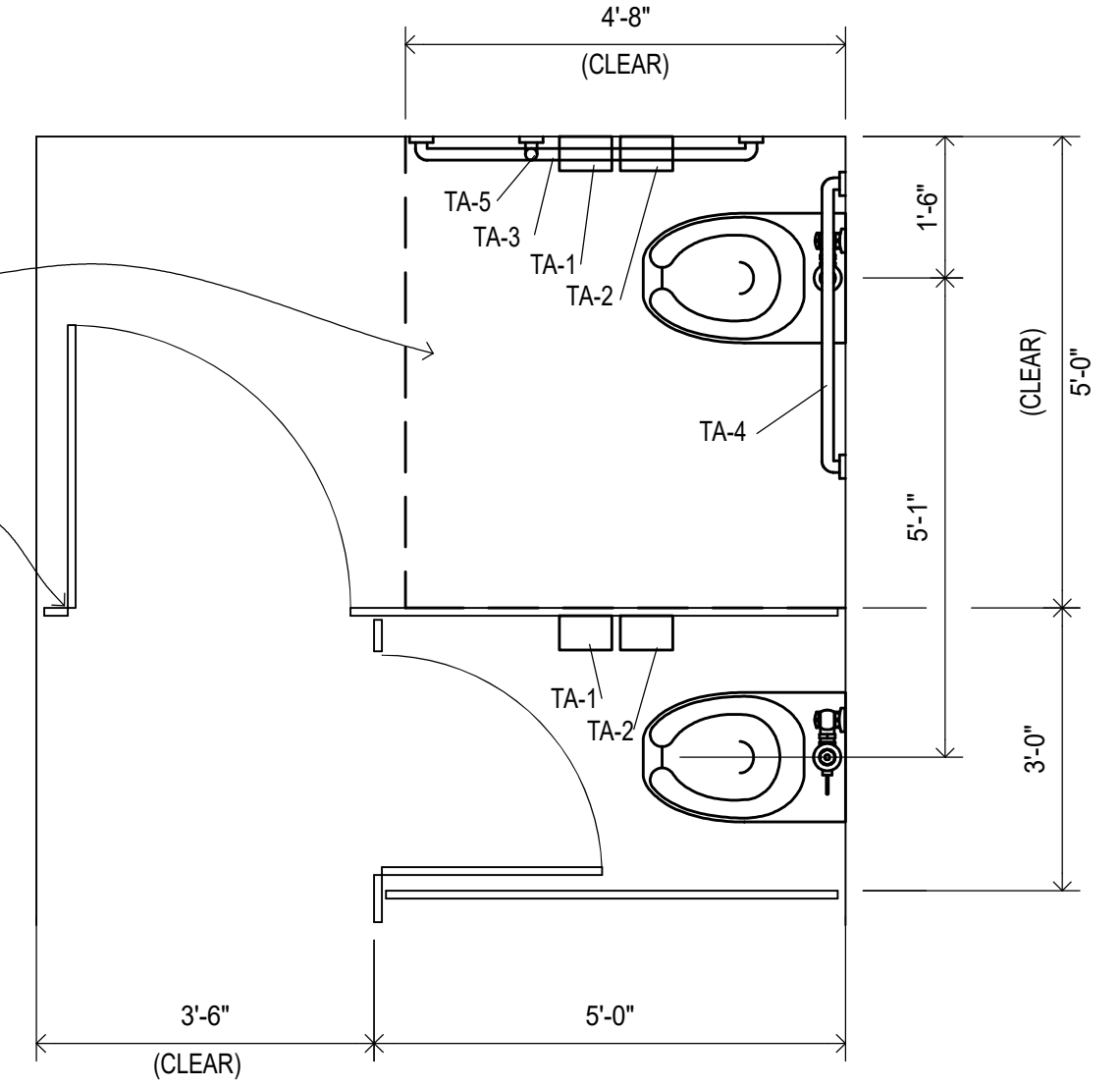
$= 870.72$ (CAN BE ROUNDED TO 750 PER ISO)

$O_i =$ OCCUPANCY FACTOR = .85 FOR C-2 (LIMITED COMBUSTIBILITY)

$= .85$ FOR C-2

$(X + P) =$ EXPOSURE AND COMMUNICATION FACTOR

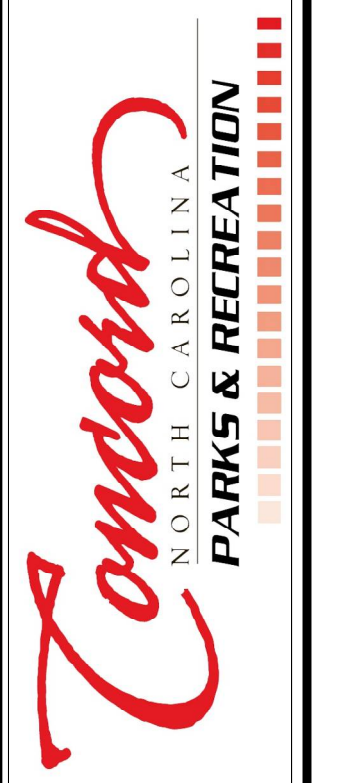
$= 0$



4 ENLARGED RESTROOM
A1.0 SCALE: 1/2" = 1'-0"

REVISIONS

NO.	DATE	BY	DESCRIPTION
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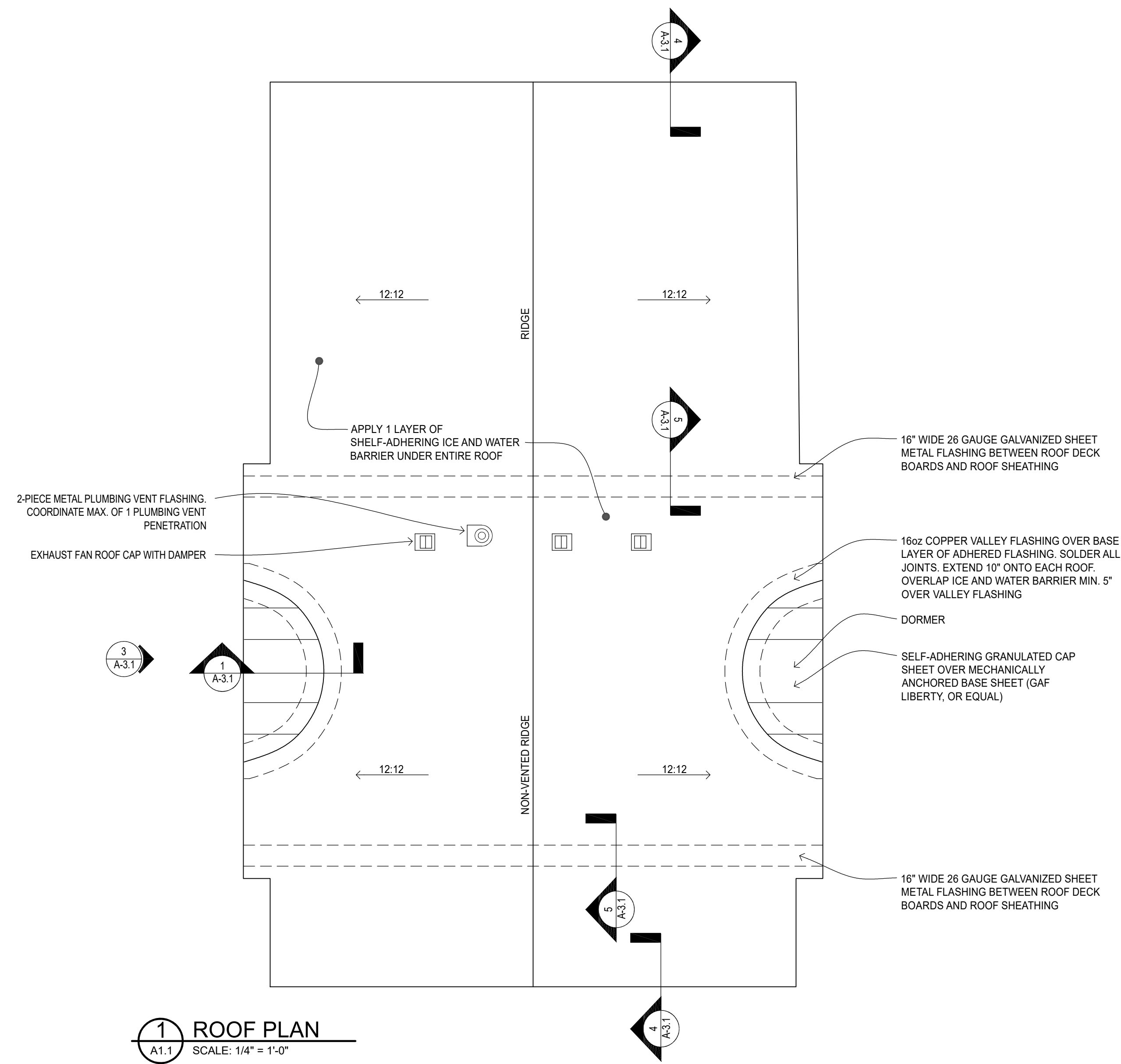


City of Concord Parks and Recreation
Wilson Street Park
106 Wilson Street, Concord, NC 28026

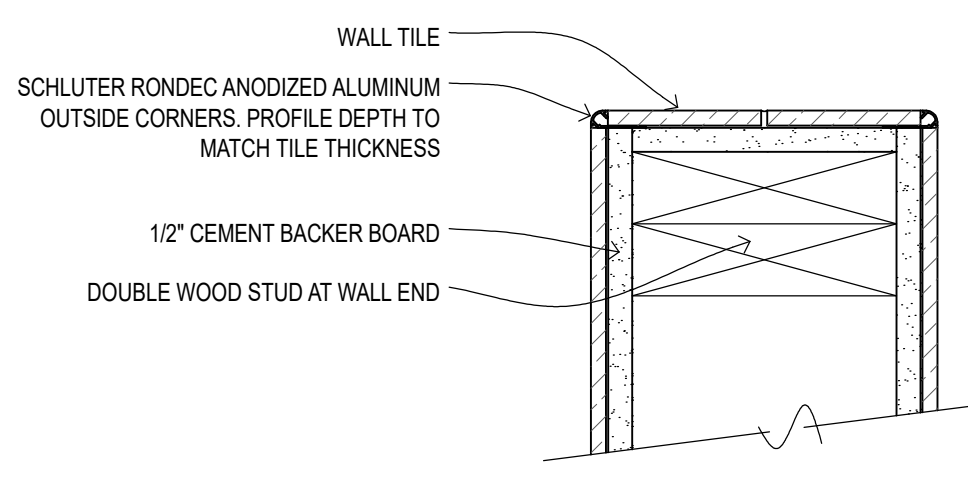
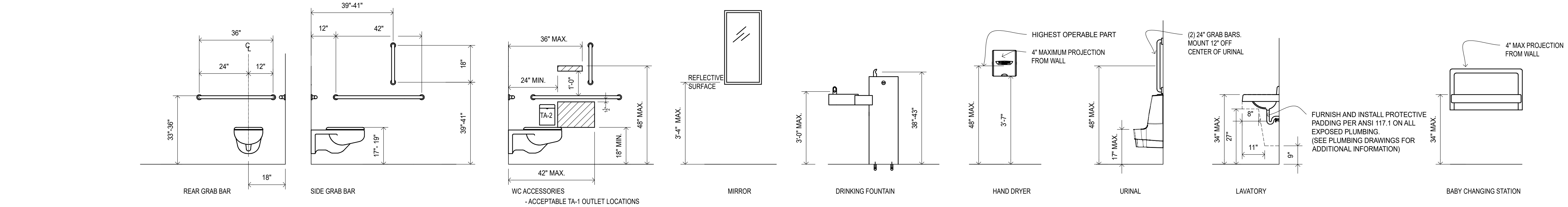
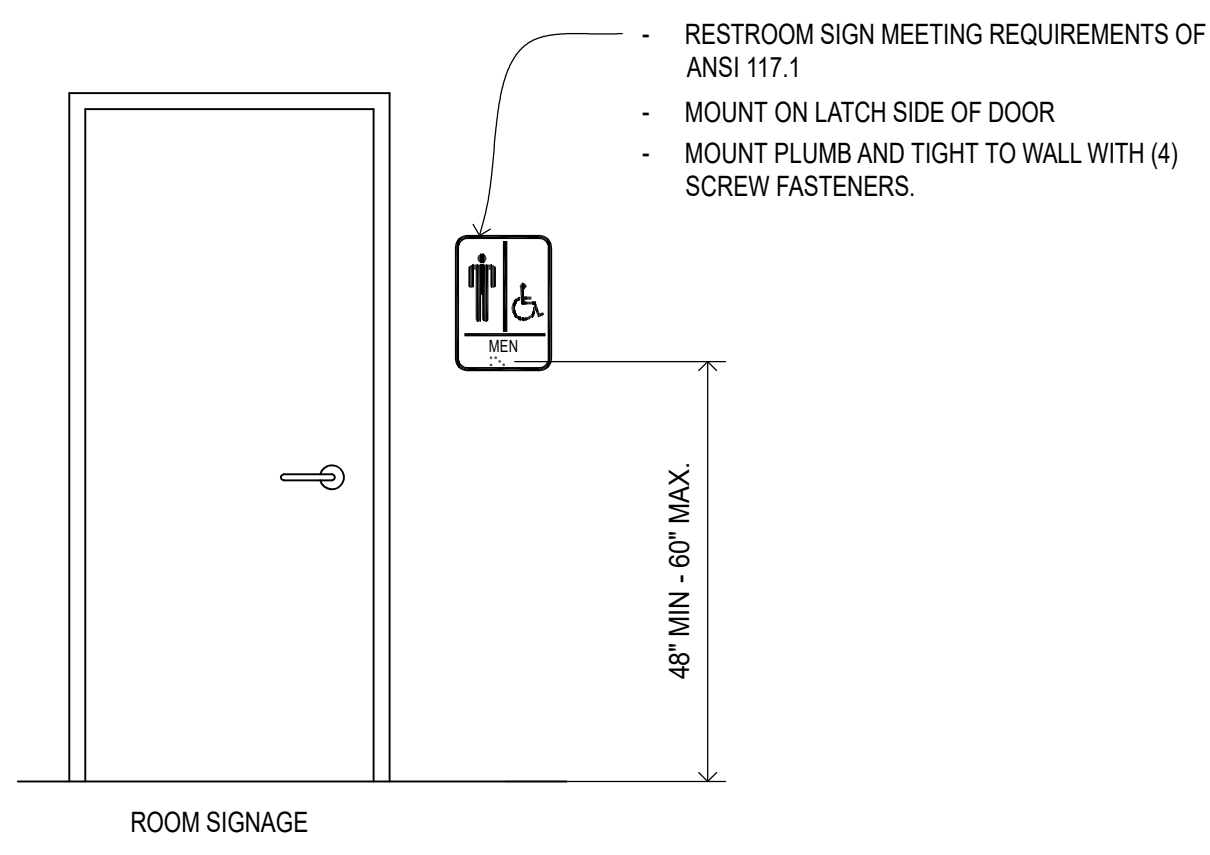
citizen design
2408 Commonwealth Ave.
Charlotte, NC 28205
Architecture • Planning • Staff

DATE: 06/03/2021
NAME:
FLOOR PLANS AND SCHEDULES

SHEET:
A 1.0



1 ROOF PLAN
A1.1 SCALE: 1/4" = 1'-0"



2 OUTSIDE TILED CORNER
A1.1 SCALE: 3\"/>

ROOM FINISH SCHEDULE								
ROOM NUM.	ROOM NAME	FLOOR FINISH	BASE	WALLS MATERIAL	FINISH	CEILING MATERIAL	FINISH	COMMENTS
01	MENS	EPOXY	STACK-ON COVE	CEMENT BRD/ G.W.B.	TILE/ PT-2	M.M.R.G.W.B.	PT-2	
02	WOMENS	EPOXY	STACK-ON COVE	CEMENT BRD/ G.W.B.	TILE/ PT-2	M.M.R.G.W.B.	PT-2	
03	CHASE	SEALED CONCRETE	4\"/>					

CEMENT BRD. 1/2\"/>

- ROOM FINISH NOTES:**
- OWNER APPROVED PRODUCT SUBMITTALS AND COLOR SELECTION REQUIRED PRIOR TO INSTALLATION OF ANY FINISH MATERIAL.
 - FLOOR LEVEL TO MEET OR EXCEED ASTM C840 LEVEL 5. CONTRACTOR TO PRESSURE WASH, CLEAN, SAND SURFACES AS REQUIRED TO ACHIEVE REQUIRED FINISH.
 - ALL FINISHES SHALL BE STORED, APPLIED AND CURED PER MANUFACTURERS INSTALLATION INSTRUCTIONS.
 - BUILDING MATERIALS TO RECEIVE FINISH APPLICATION SHALL BE CLEANED AND PREPARED FOR APPLIED FINISH ACCORDING MANUFACTURER'S SPECIFICATIONS.
 - THE MAXIMUM VERTICAL DIFFERENCE BETWEEN ANY TWO ADJACENT FLOOR SURFACES SHALL NOT EXCEED 1/2\"/>

EPOXY FLOOR: CONTRACTOR TO COORDINATE SLAB PREP WITH FLOORING INSTALLER. SLIP RESISTANT SEAMLESS EPOXY FLOOR WITH URETHANE TOP COAT. FLOOR PREPARATION, MOISTURE TESTING, INSTALLATION AND APPLICATION PER MANUFACTURER'S SPECIFICATIONS. CONCRETE FLOOR TO BE DIAMOND GROUND PER FLOORING MANUFACTURER INSTALLATION INSTRUCTIONS.

- CONCRETE STAIN: SURECRETE DESIGN PRODUCTS: EcoStain. COLOR AS SELECTED BY OWNER
- EPOXY BASE COAT: FLOROCK 4805 AT A RATE OF 160sqft/ GALLON
- URETHANE TOP COAT: FLOROCK SATIN FINISH MC/HT WITH 2oz OF GLASS BEADS PER GALLON AT A RATE OF 500sqft/ GALLON

SEALED CONCR.: HEAVY DUTY, HEAVY SOLIDS, GLOSS URETHANE FLOOR COATING. MEETING ADA REQUIREMENTS FOR SLIP RESISTANCE. APPLIED 3 TO 4.5 MILS WET. ACCEPTABLE MANUFACTURES: (SHERWIN WILLIAMS, ARMORSEAL REXTHANE 1 OR EQUAL)

TILE: 6"x6" BRIGHT WHITE SEMI-GLOSS GLAZED CERAMIC WALL TILE WITH MATCHING 6"x6" STACK-ON COVE BASE AND 2"x6" BULLNOSE CAP AND TRIM PIECES. TILE HEIGHT TO NEAREST FULL COURSE AT 7'-10" A.F.F. (DALTILE, CLASSIC COLOR WHEEL COLLECTION, OR APPROVED EQUAL).

- OUTSIDE CORNERS: SCHLUTER ANODIZED ALUM RONDEC. (SEE DETAILS)
- DOOR FRAME EDGES: SCHLUTER SCHIENE ANODIZED ALUMINUM (SEE DETAILS)
- GROUT: NON-SANDED DELOREAN GREY EPOXY GROUT, 3/32" WIDE GROUT LINE.

PT-1: ONE COAT EXTERIOR LATEX PRIMER/ SEALER (SHERWIN WILLIAMS B51-450 SERIES) PLUS, MINIMUM TWO COATS PREMIUM EXTERIOR, VINYL SAFE, ACRYLIC, SATIN FINISH. SHERWIN WILLIAMS DURATION K33-200 SERIES OR EQUAL. (5.3-6.4 MILS WET, 2.1-2.6 MILS DRY PER COAT)

PT-2: ONE COAT LATEX PRIMER SHERWIN-WILLIAMS PRO-MAR 200 B28W2600 OR EQUAL. PLUS TWO COATS INDUSTRIAL PRE-CATALYZED WATER BASE EPOXY. (SHERWIN-WILLIAMS PRO INDUSTRIAL B73-300 SERIES, OR EQUAL) (4.0 MILS WET, 1.5 MILS DRY PER COAT) COLOR: SW 6175, SAGEY SEMI-GLOSS

PT-3: REMOVE ALL SURFACE CONTAMINATION, MARKS AND MILDEW FROM SURFACE BY PROPER CLEANING PER MANUFACTURER'S APPROVED METHODS. SAND ANY DETEIORATED OR MARKED WOOD TO A FRESH SURFACE. APPLY MINIMUM TWO COATS CLEAR SATIN FINISH URETHANE EXTERIOR TOP COAT CONTAINING UV AND MILDEW INHIBITOR. SHERWIN WILLIAMS MINWAX HELMSMAN SPAR URETHANE OR EQUAL

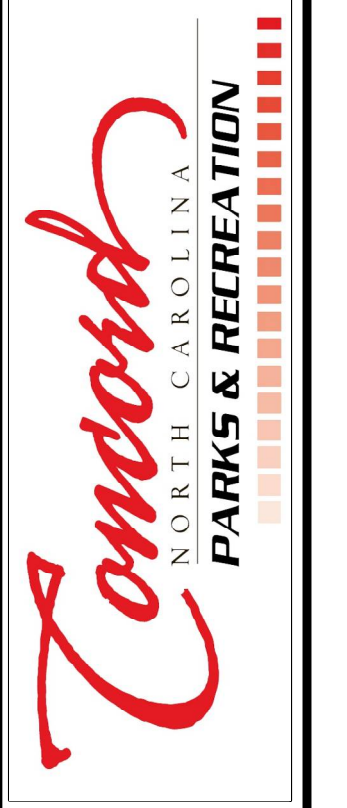
PT-4: REMOVE ALL SURFACE CONTAMINATION, MARKS AND MILDEW FROM SURFACE BY PROPER CLEANING PER MANUFACTURER'S APPROVED METHODS. APPLY MINIMUM TWO COATS SEMI-TRANSPARENT SATIN FINISH EXTERIOR LOG HOME STAIN AND SEALER, CONTAINING UV AND MILDEW INHIBITOR. SHERWIN WILLIAMS SUPERDECK LOG HOME AND DECK STAIN OR EQUAL

F.R.P.: FIBER REINFORCED PLASTIC, SMOOTH FINISH, NOMINAL 3/32" THICK. PANEL INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. USE MANUFACTURER'S APPROVED ADHESIVE. MANUFACTURER'S MOLDINGS SHALL SURROUND ALL PANELS AND BE PROPERLY SEALED WITH A CONTINUOUS BEAD OF SILICONE SEALANT.

UNFINISHED: SHOP PRIMED AND PAINTED WITH TWO COATS OF HIGH GLOSS POLYAMIDE EPOXY PAINT. METALS:

STONE: SEE STONE VENEER NOTES ON A2.0
VENEER:

REVISIONS NO.	DATE	BY	DESCRIPTION
1	11/15/2021	BHC	ADDENDUM 1

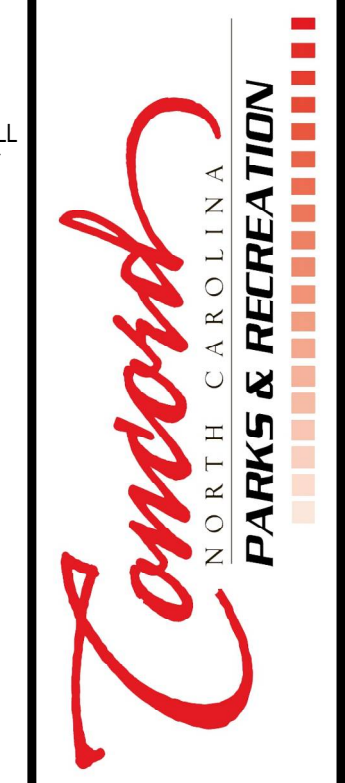


City of Concord Parks and Recreation
Wilson Street Park
106 Wilson Street, Concord, NC 28026

citizen design
2408 Commonwealth Ave.
Charlotte, NC 28205
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DATE: 08/16/2021
NAME: ROOF PLAN FINISH SCHEDULE AND DETAILS
SHEET:

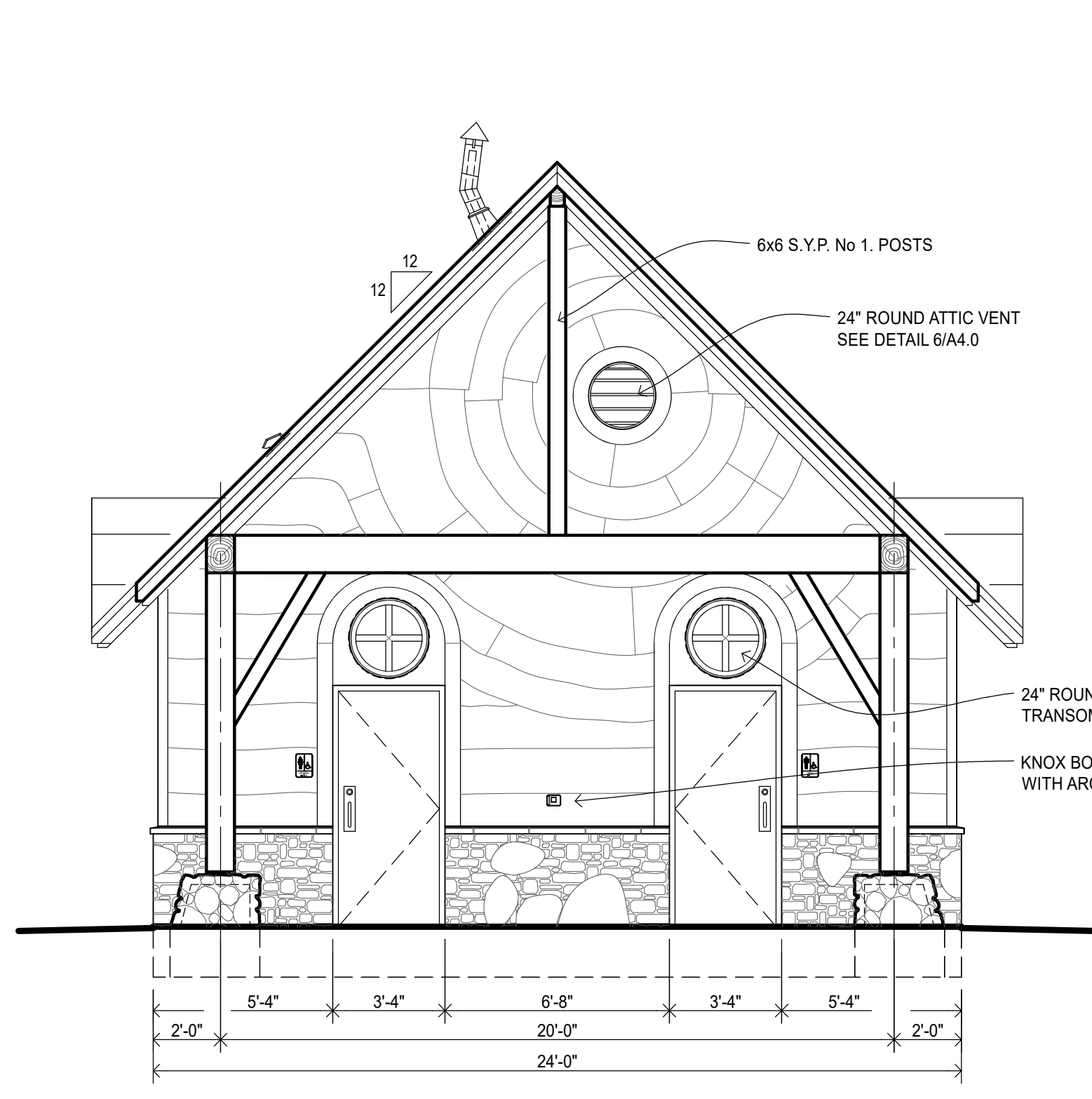
DESCRIPTION	ADDENDUM 1
ADDENDUM 2	
BY	BHC
DATE	11/15/2021
NO.	1
REVISIONS	
NO.	2
DATE	12/6/2021
BY	BHC
NO.	1



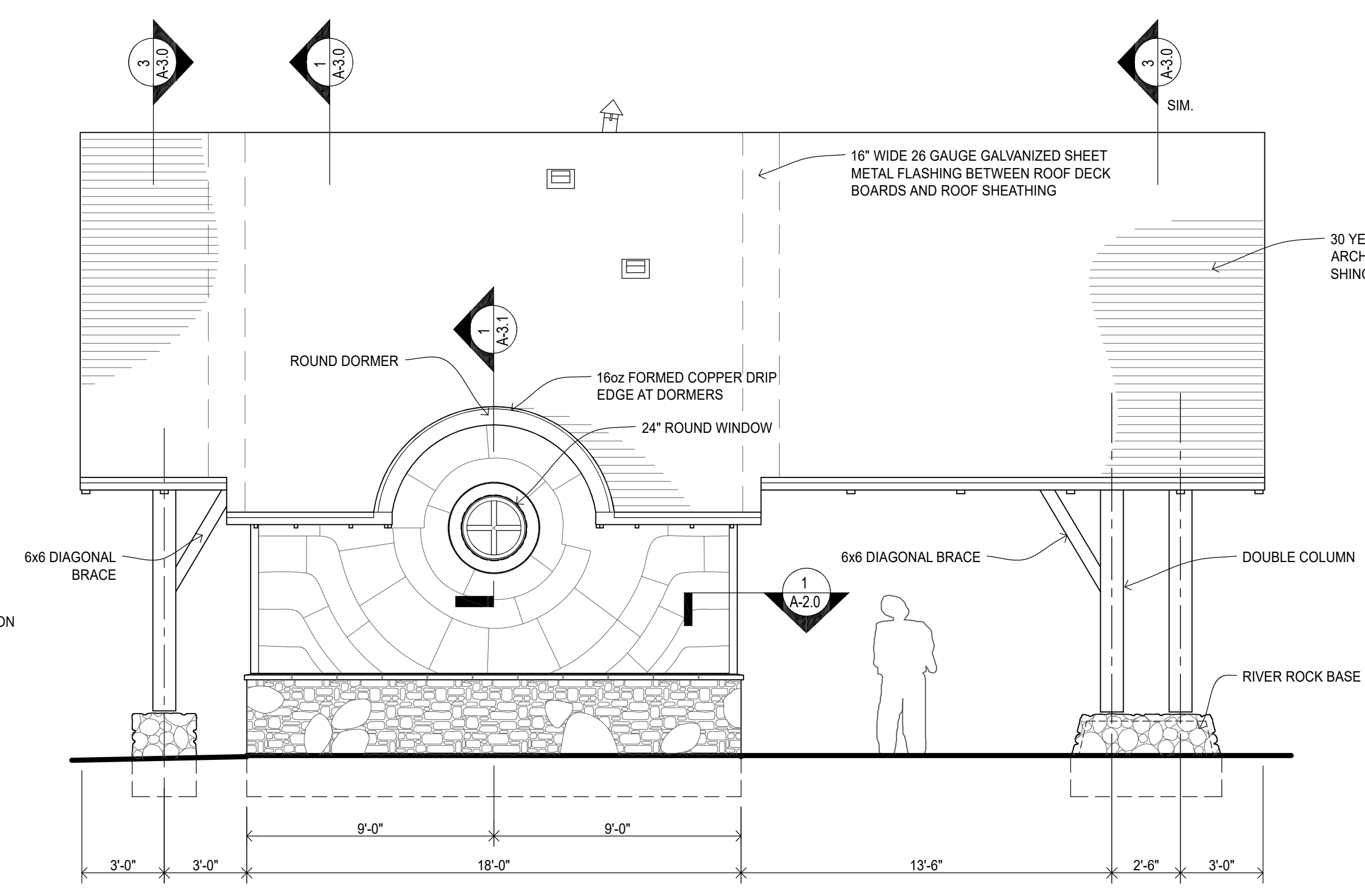
City of Concord Parks and Recreation
Wilson Street Park
 106 Wilson Street, Concord, NC 28026

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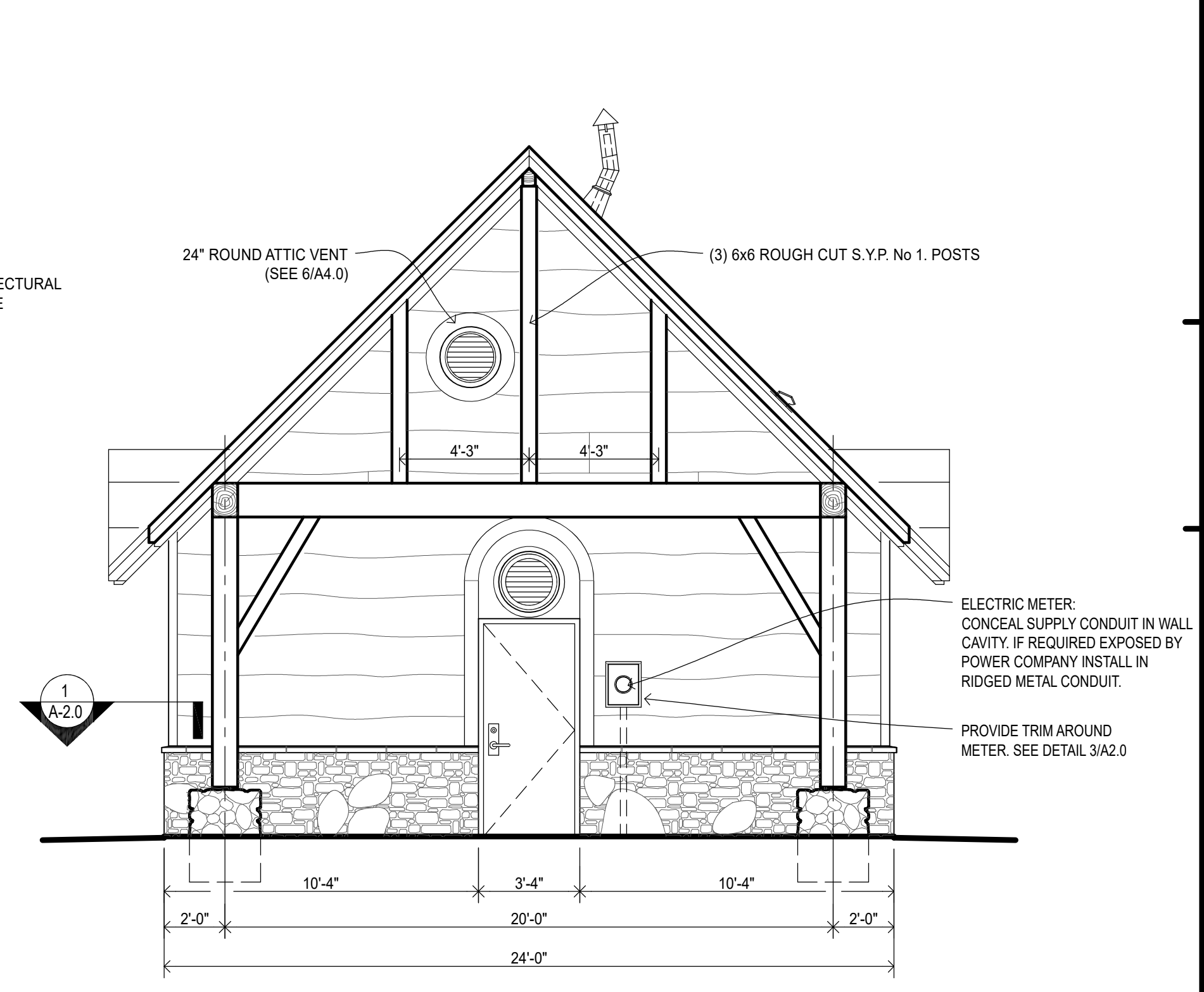
DATE: 12/6/2021
 NAME:
 ELEVATIONS AND DETAILS
 SHEET: **A 2.0**



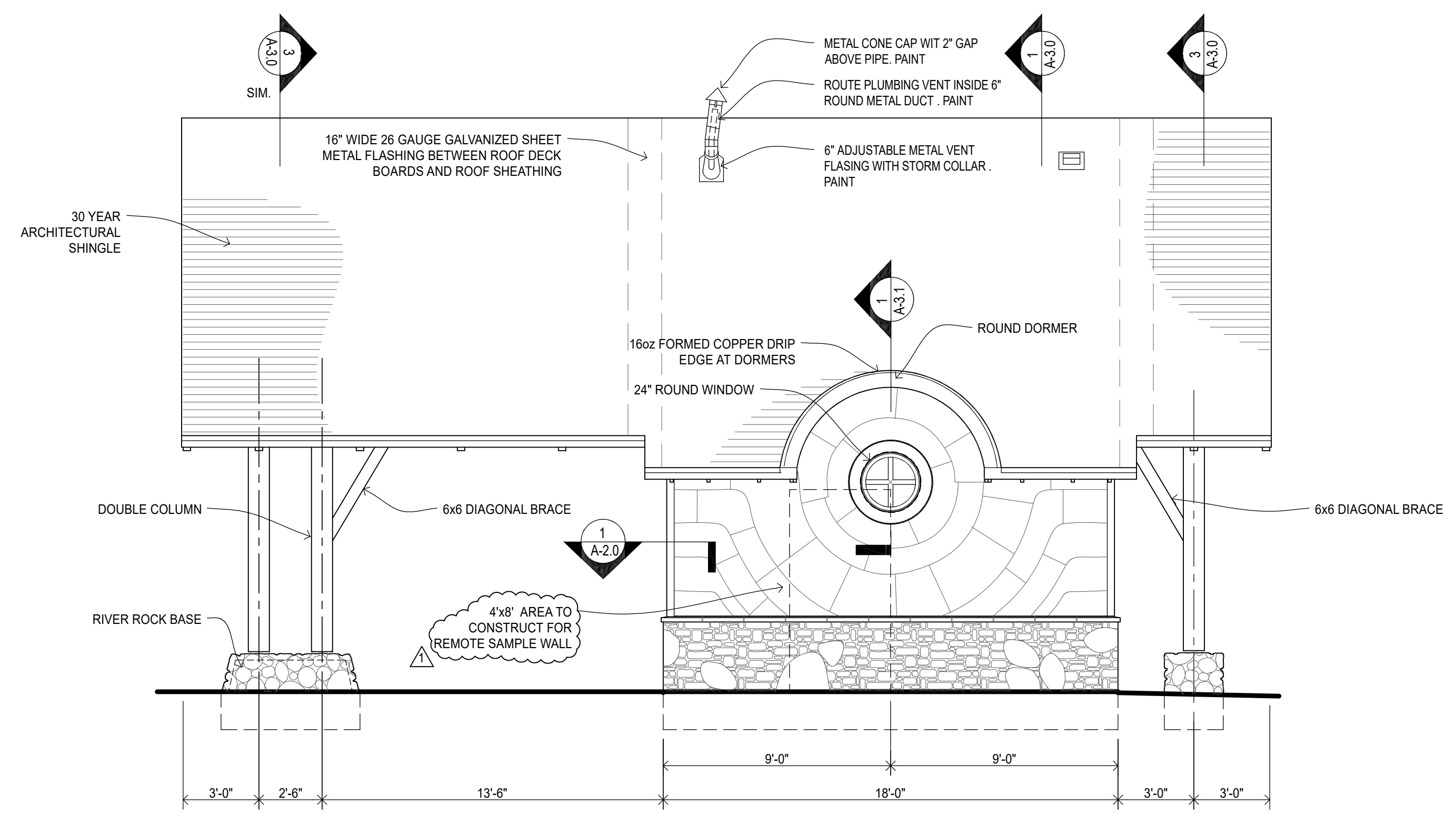
(A) SOUTH ELEVATION
 A2.0 SCALE: 1/4"=1'-0"



(B) EAST ELEVATION
 A2.0 SCALE: 1/4"=1'-0"



(C) NORTH ELEVATION
 A2.0 SCALE: 1/4"=1'-0"



(D) WEST ELEVATION
 A2.0 SCALE: 1/4"=1'-0"

PVC SIDING AND TRIM:

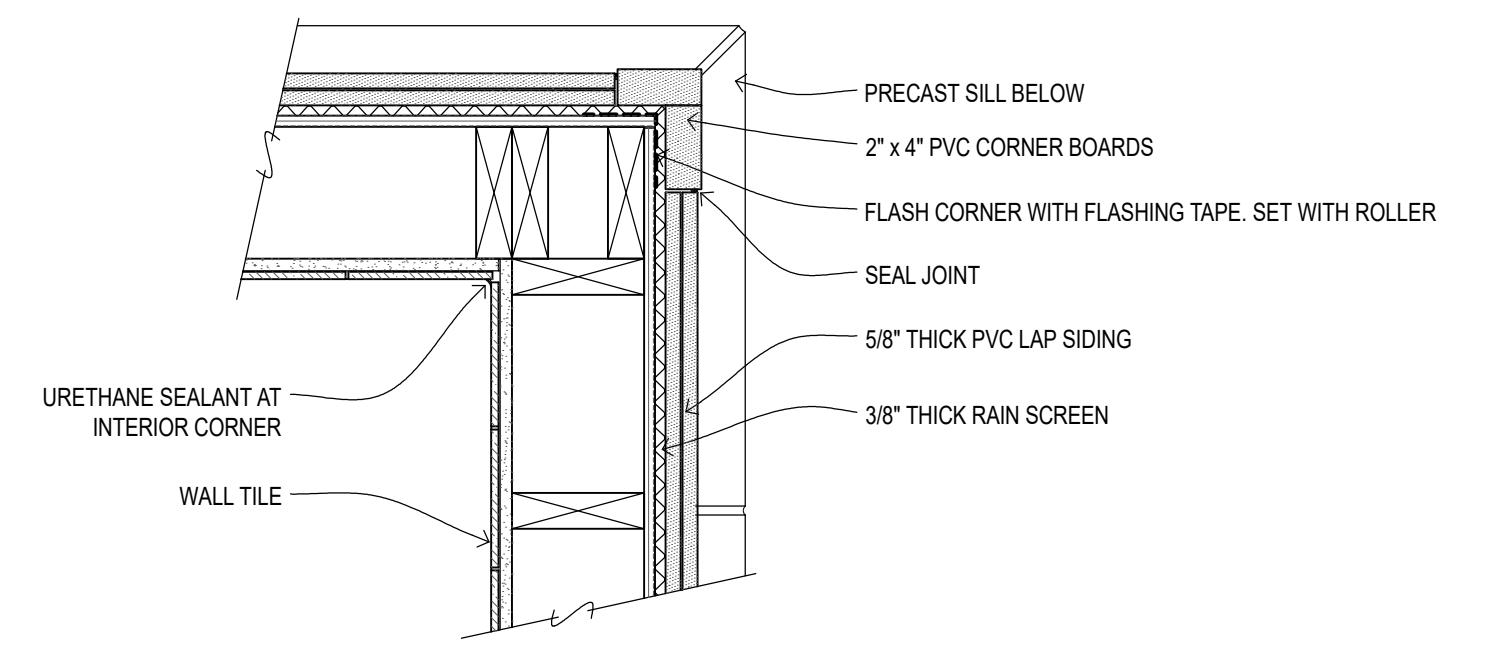
- LAP SIDING: SHALL BE CUT FROM 4'x 8' x 5/8" THICK SMOOTH FACE PVC PANELS. 2D-CAD SIDING PANEL PATTERNS SHALL BE PROVIDED TO USE AS TEMPLATE GUIDE.
- TRIM BOARDS: 1-1/2" THICK PVC TRIM BOARDS SHALL BE USED IN SIDING AND WINDOW TRIM AREAS. 3/4" THICK TRIM BOARDS CAN BE USED AWAY FROM SIDING. TEXTURE SHALL BE SMOOTH. MINIMUM LENGTH OF BOARD BETWEEN CUT JOINTS SHALL BE 8'-0". MITER AND GLUE ALL INTERMITTENT JOINTS.
- RAINSCREEN BEHIND SIDING SHALL BE HDPE, 3/16" TALL, WITH FLAT CORRUGATIONS DESIGNED FOR USE BEHIND SIDING. INSTALL PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS (MIDRY SURE CAVITY OR EQUAL)
- SIDING PANELS AND TRIM TO BE INSTALLED PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
- ALL SIDING AND TRIM MUST BE FLASHED IN ACCORDANCE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS
- MANUFACTURER'S RECOMMENDED FASTENERS AND FASTENER SPACINGS FOR INSTALLATION INTO SPECIFIED MATERIALS SHALL BE USED.
- SAMPLE WALL PANEL: A MINIMUM 4'x8' TALL WALL PANEL WITH ALL BASE, CAP AND RAIN SCREEN FLASHINGS SHALL BE CONSTRUCTED FOR APPROVAL BY OWNER AND ARCHITECT PRIOR TO INSTALLATION ON THE BUILDING. THE SAMPLE SHALL BE SEPARATE FROM THE BUILDING. PROTECT AND RETAIN SAMPLE AS A BASIS FOR APPROVAL OF COMPLETED STONE WORK.

ADHERED THIN STONE VENEER

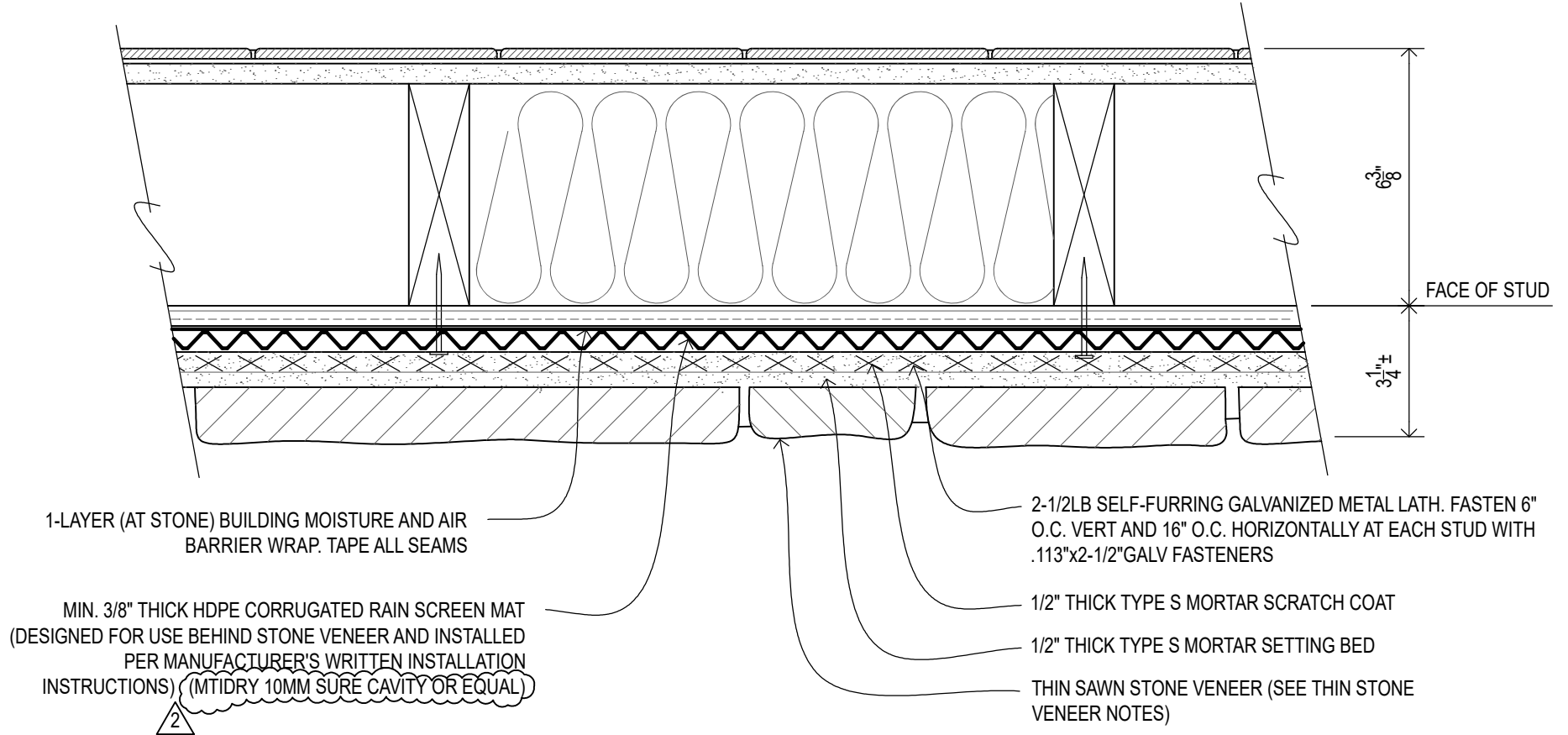
- STONE COURSEING AND JOINTS TO MATCH THE DAVID PHILLIPS ACTIVITY CENTER SHELTER. PICTURE RIGHT.
- MANUFACTURED LEDGESTONE AND FIELD STONE MIX AS MANUFACTURED BY BUILDERS CHOICE STONE (STONE MASTER, Inc.).
 - 85% SOUTHERN APPALACHIAN LEDGESTONE - DAKOTA BROWN BLEND
 - 15% FIELD STONE - TENNESSEE MOUNTAIN.
 - MORTAR JOINTS SHALL BE 1/4"-1/2" WIDE
 - USE MANUFACTURED CORNER PIECES.
- WATER TABLE: SLOPED PRECAST BUILDERS CHOICE: 18"L x 3.75"H x 2.375"H WAINSCOT SILL WITH SNAPPED EDGE, COLOR: LIGHT BROWN
- TYPE S PORTLAND CEMENT, COLOR AS SELECTED BY ARCHITECT; GREY FOR STONE AND MATCH COLOR AT PRECAST SILL.
- INSTALL PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND MASONRY VENEER MANUFACTURER'S ASSOCIATION (MVA) INSTALLATION GUIDE WITH DRAINAGE CAVITY.
- DO NOT INSTALL STONE WHEN AIR TEMPERATURE FALLS BELOW 40 DEGREES FAHRENHEIT.
- PROTECT ADJACENT WORK FROM MORTAR AND DAMAGE.
- CLEAN AND REMOVE ACCESS MORTAR FROM STONE AFTER INSTALLATION PER MANUFACTURER'S INSTRUCTIONS. DO NOT USE STRONG CHEMICAL CLEANERS.
- SAMPLE WALL PANEL: A MINIMUM 4'x8' TALL WALL PANEL WITH ALL BASE, CAP AND RAIN SCREEN FLASHINGS SHALL BE CONSTRUCTED FOR APPROVAL BY OWNER AND ARCHITECT PRIOR TO INSTALLATION ON THE BUILDING. THE SAMPLE SHALL BE SEPARATE FROM THE BUILDING. PROTECT AND RETAIN SAMPLE AS A BASIS FOR APPROVAL OF COMPLETED STONE WORK.

COLUMN BASE ADHERED THIN STONE VENEER

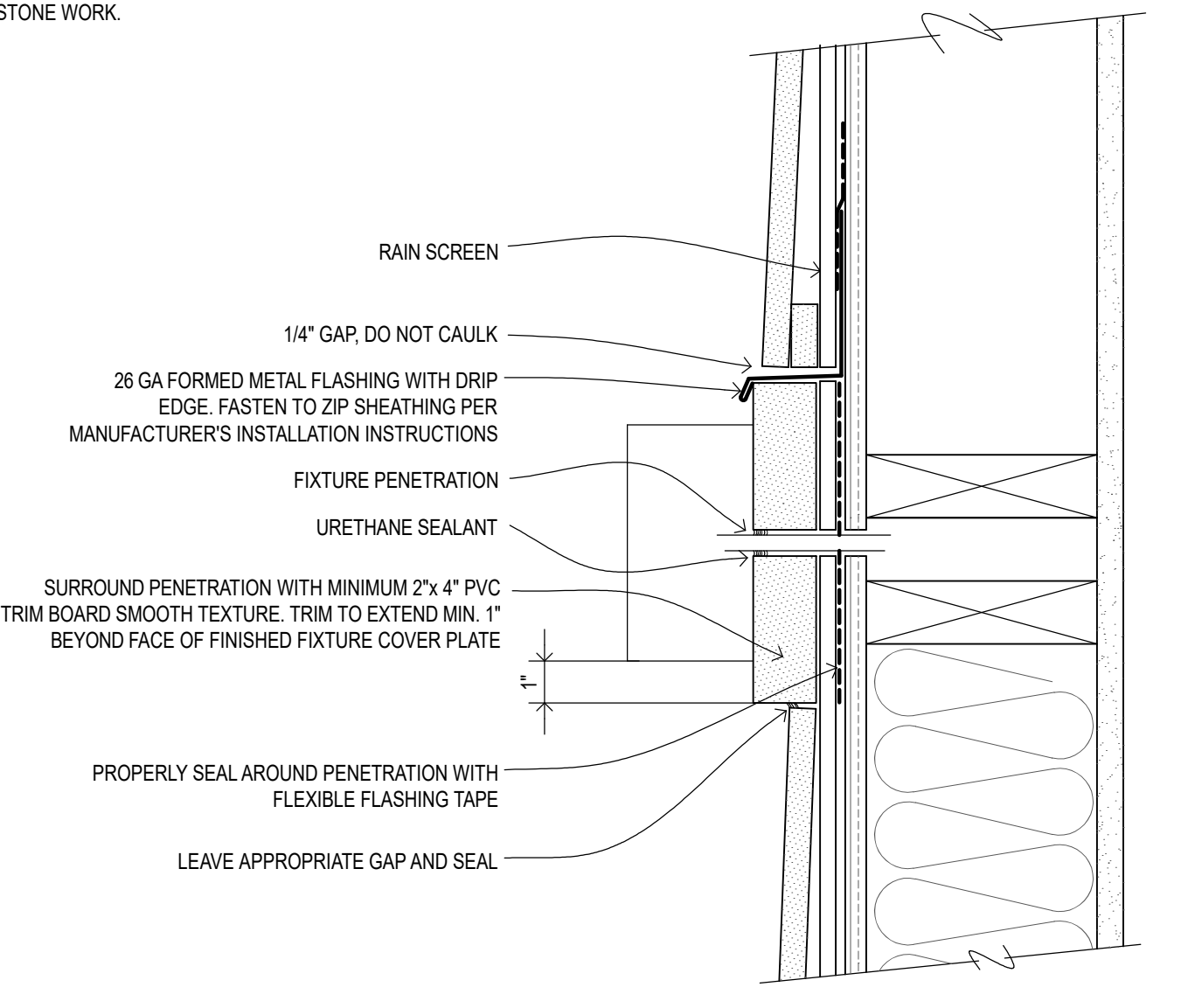
- MANUFACTURED RIVER ROCK: ELDERADO STONE, COLORADO RIVER ROCK.
 - MORTAR JOINTS SHALL BE 1/4"-1/2" WIDE
 - USE MANUFACTURED CORNER PIECES.
- INSTALL PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND MASONRY VENEER MANUFACTURER'S ASSOCIATION (MVA) INSTALLATION GUIDE WITH DRAINAGE CAVITY.
- TYPE S PORTLAND CEMENT, COLOR AS SELECTED BY ARCHITECT; COLOR: GREY FOR STONE.
- DO NOT INSTALL STONE WHEN AIR TEMPERATURE FALLS BELOW 40 DEGREES FAHRENHEIT
- PROTECT ADJACENT WORK FROM MORTAR AND DAMAGE.
- CLEAN AND REMOVE ACCESS MORTAR FROM STONE AFTER INSTALLATION PER MANUFACTURER'S INSTRUCTIONS. DO NOT USE STRONG CHEMICAL CLEANERS.
- SAMPLE COLUMN BASE: CONSTRUCT SEPARATE SAMPLE BASE PRIOR TO INSTALLATION ON THE BUILDING. PROTECT AND RETAIN SAMPLE AS A BASIS FOR APPROVAL OF COMPLETED STONE WORK.



(1) OUTSIDE CORNER DETAIL
 A2.0 SCALE: 1-1/2"=1'-0"

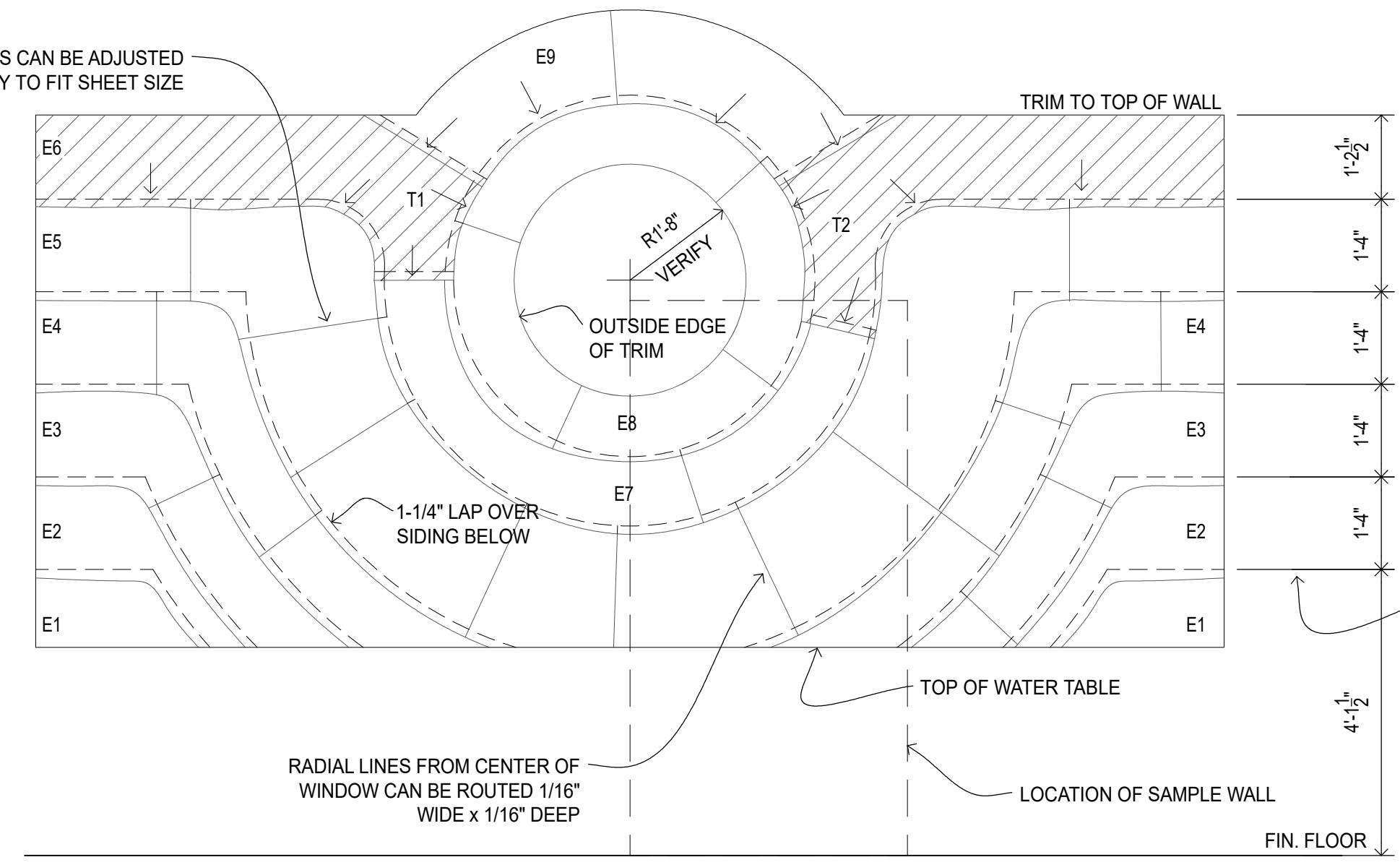


(2) THIN STONE PLAN DETAIL
 A2.0 SCALE: 3"=1'-0"



(3) SIDING PENETRATION DETAIL
 A2.0 SCALE: 3"=1'-0"

PHYSICAL JOINTS CAN BE ADJUSTED SLIGHTLY TO FIT SHEET SIZE



B SIDE ELEVATIONS
A2.1 SCALE: 1/2"=1'-0"

SIDING LAYOUT SYMBOL KEY

- TRANSITIONAL SIDING PIECE, SIDING PIECE LAPS OVER PIECES ON BOTH SIDES. SEAL TO SIDING BELOW WITH PAINTABLE SILICONE SEALANT
- SIDING OVERLAPS PIECE BELOW
- LINE OF SIDING PIECE BELOW

SIDING LAYOUT NOTES

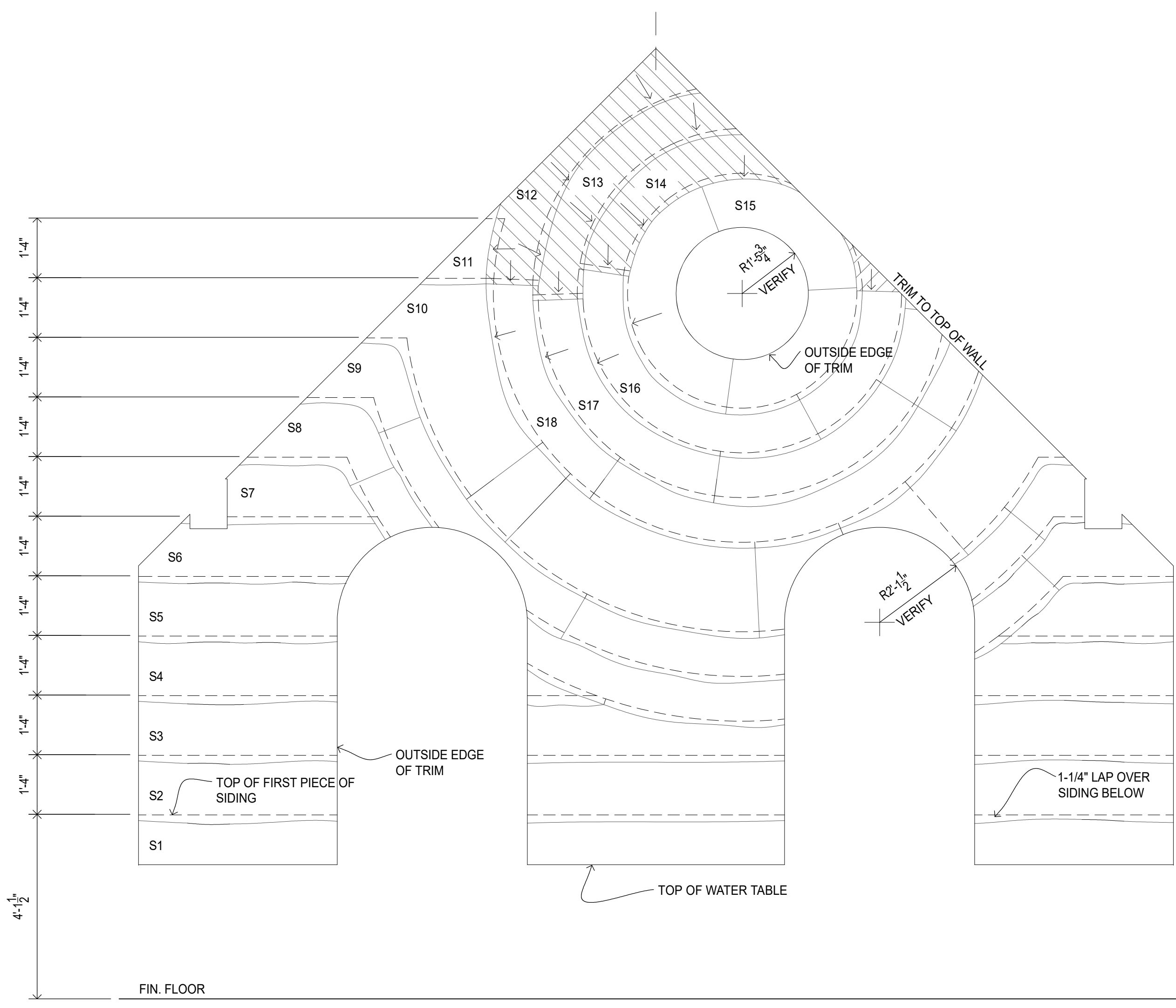
1. SEE SIDING NOTES ON A2.0 FOR ADDITIONAL INFORMATION.
2. MAINTAIN MINIMUM 1-1/4" OVERLAP ON SIDING PANELS
3. CONTRACTOR RESPONSIBLE FOR FINAL VERIFICATION OF FIELD DIMENSIONS.
4. SIDING PIECES SHALL BE FABRICATED LONG TO ALLOW FOR FIELD TRIMMING AT ENDS AND PENETRATIONS
5. PROVIDE 1 1/4" TALL STARTER STRIPS AS NEEDED AT FIRST PIECE OF SIDING AND ABOVE PENETRATIONS.

PVC SIDING AND TRIM:

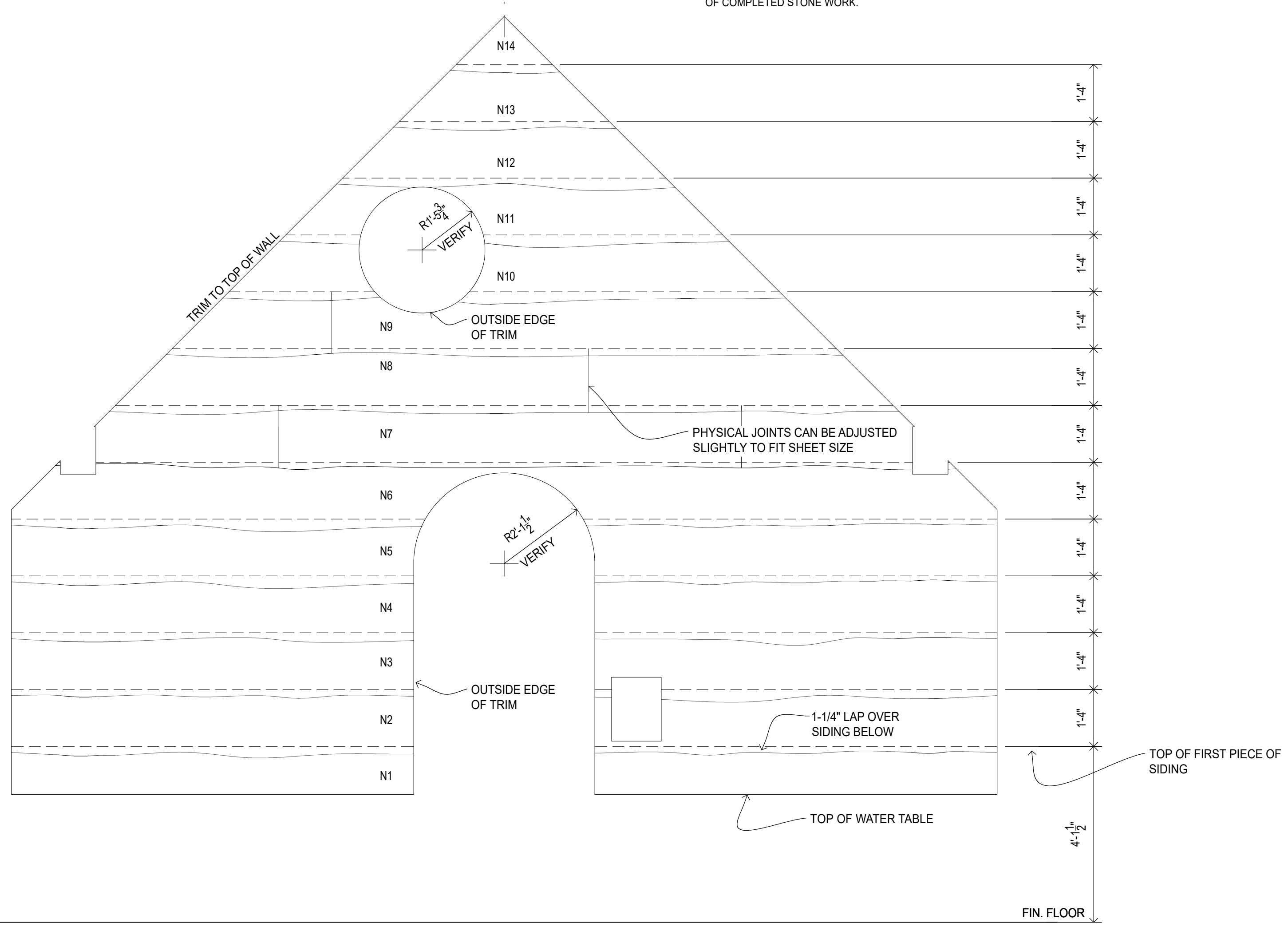
1. LAP SIDING SHALL BE CUT FROM 4'x 8'x 5/8" THICK SMOOTH FACE PVC PANELS. 2D-CAD SIDING PANEL PATTERNS SHALL BE PROVIDED TO USE AS TEMPLATE GUIDE.

TRIM BOARDS: 1-1/2" THICK PVC TRIM BOARDS SHALL BE USED IN SIDING AND WINDOW TRIM AREAS. 3/4" THICK TRIM BOARDS CAN BE USED AWAY FROM SIDING. TEXTURE SHALL BE SMOOTH. MINIMUM LENGTH OF BOARD BETWEEN CUT JOINTS SHALL BE 8'-0". MITER AND GLUE ALL INTERMITTENT JOINTS.

RAINSCREEN BEHIND SIDING SHALL BE HDPE, 3/16" TALL, WITH FLAT CORRUGATIONS DESIGNED FOR USE BEHIND SIDING. INSTALL PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS (MIDURY SURE CAVITY OR EQUAL).
2. SIDING PANELS AND TRIM TO BE INSTALLED PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
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4. MANUFACTURER'S RECOMMENDED FASTENERS AND FASTENER SPACINGS FOR INSTALLATION INTO SPECIFIED MATERIALS SHALL BE USED.
5. SAMPLE WALL PANEL: A MINIMUM 4'x 8' TALL WALL PANEL WITH ALL BASE, CAP AND RAIN SCREEN FLASHINGS SHALL BE CONSTRUCTED FOR APPROVAL BY OWNER AND ARCHITECT PRIOR TO INSTALLATION ON THE BUILDING. THE SAMPLE SHALL BE SEPARATE FROM THE BUILDING. PROTECT AND RETAIN SAMPLE AS A BASIS FOR APPROVAL OF COMPLETED STONE WORK.

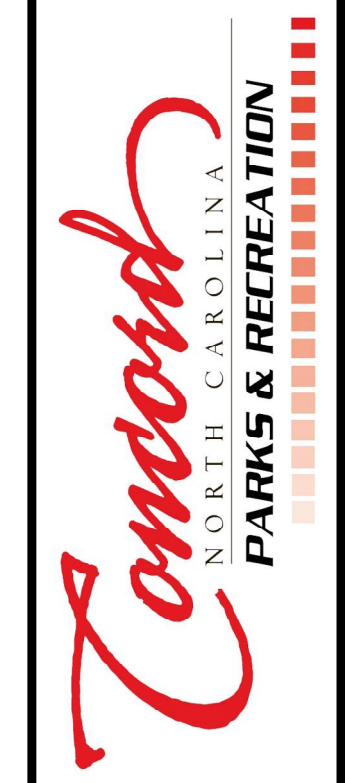
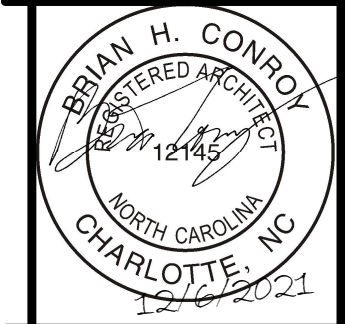


A SOUTH ELEVATION
A2.1 SCALE: 1/2"=1'-0"



C NORTH ELEVATION
A2.1 SCALE: 1/2"=1'-0"

REVISIONS NO.	DATE	BY	DESCRIPTION

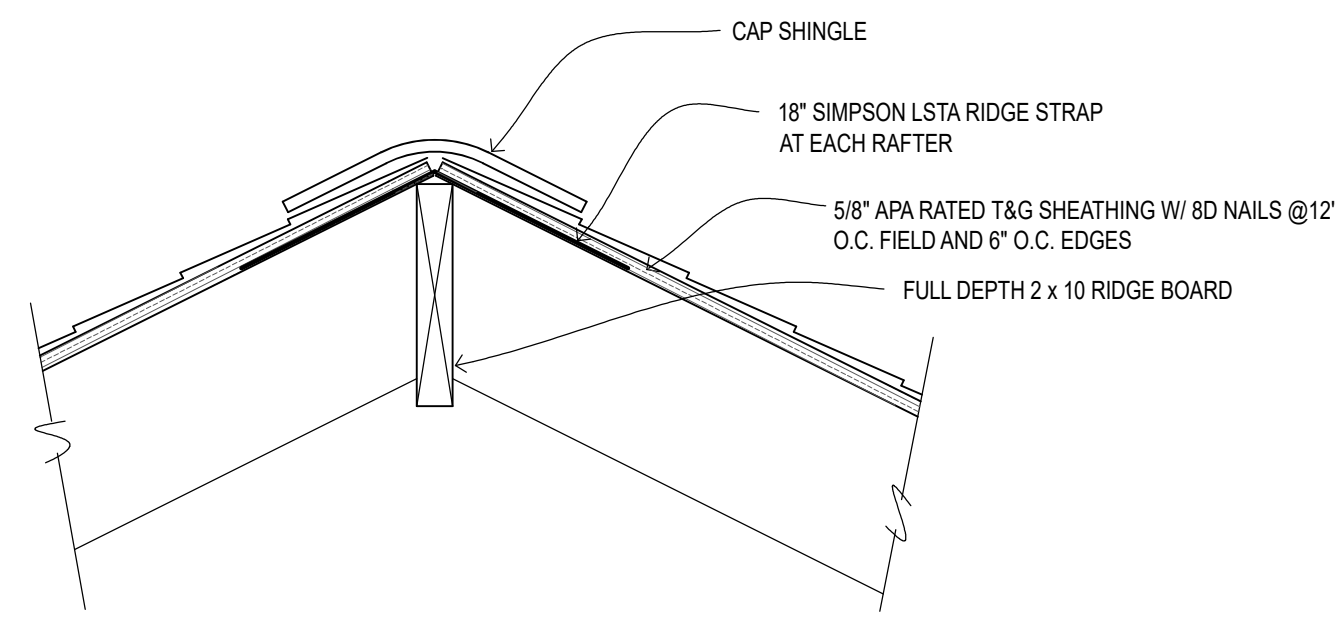


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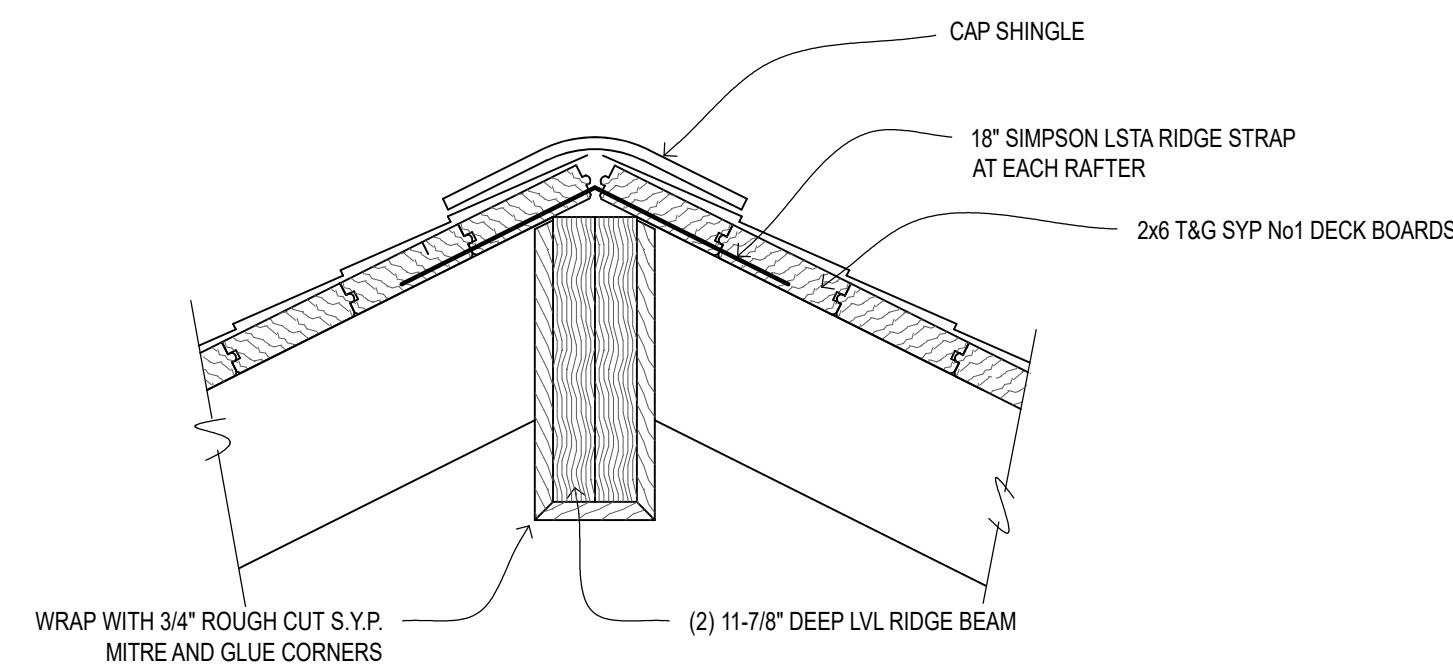


DATE: 12/6/2021
 NAME:
 SIDING LAYOUT

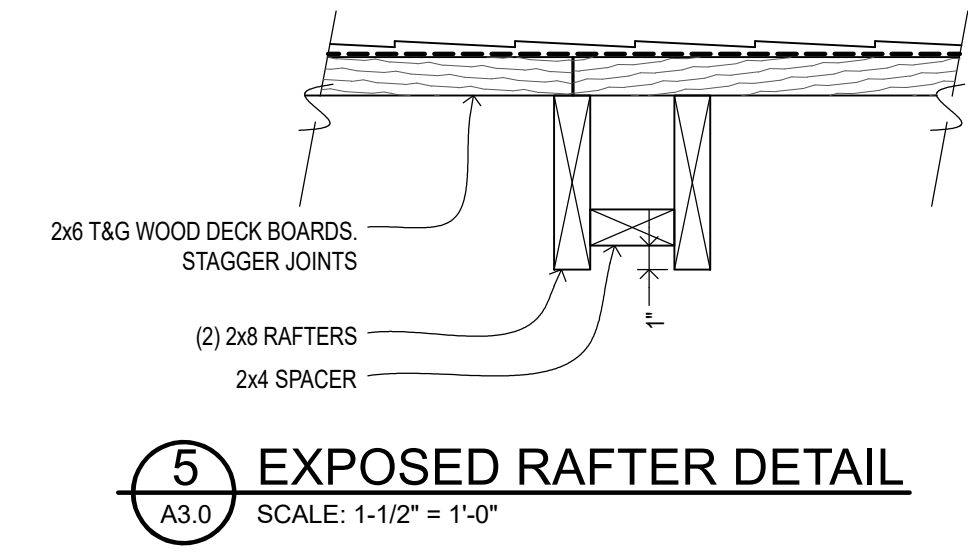
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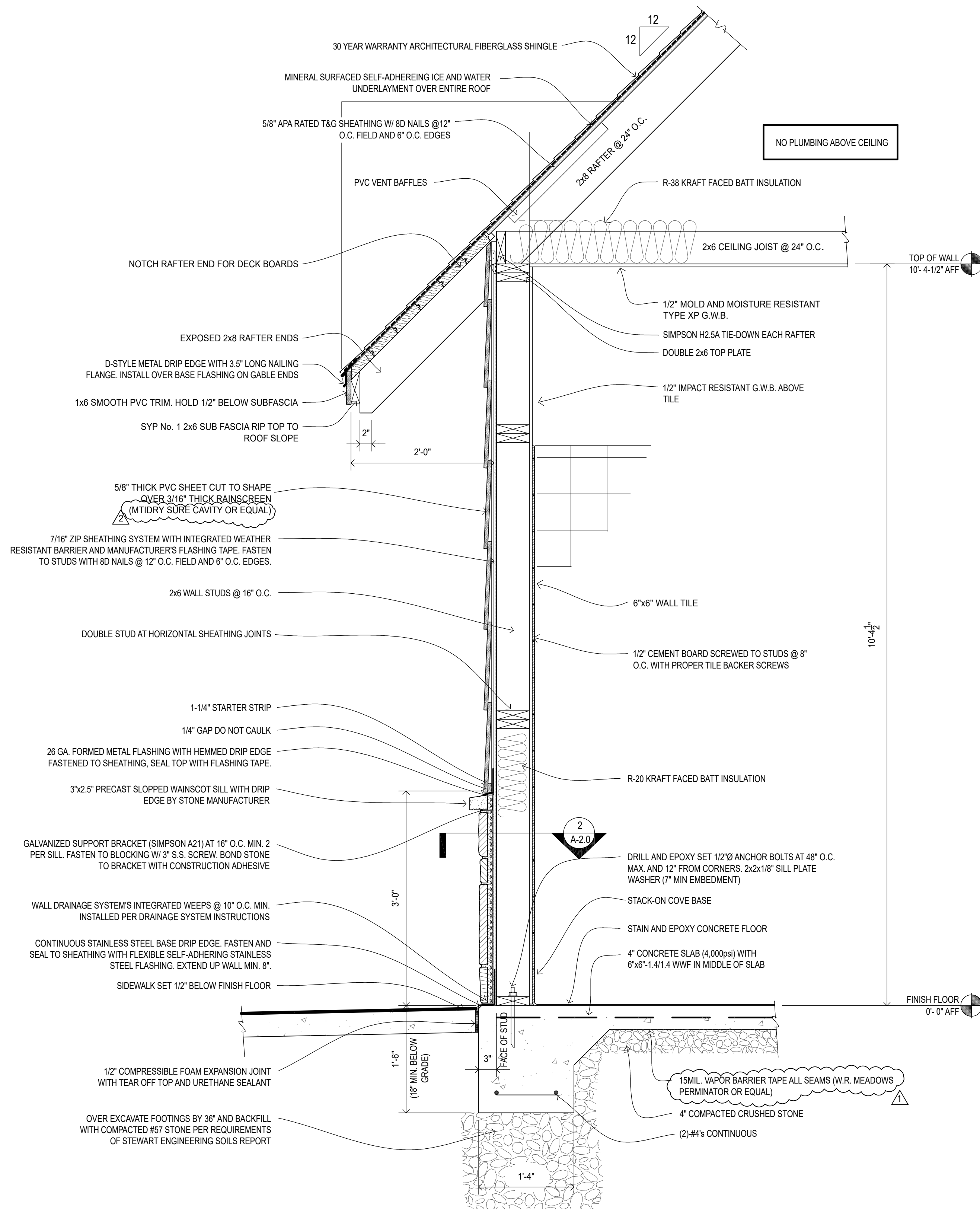
2 FRAMED RIDGE DETAIL
A3.0 SCALE: 1-1/2" = 1'-0"



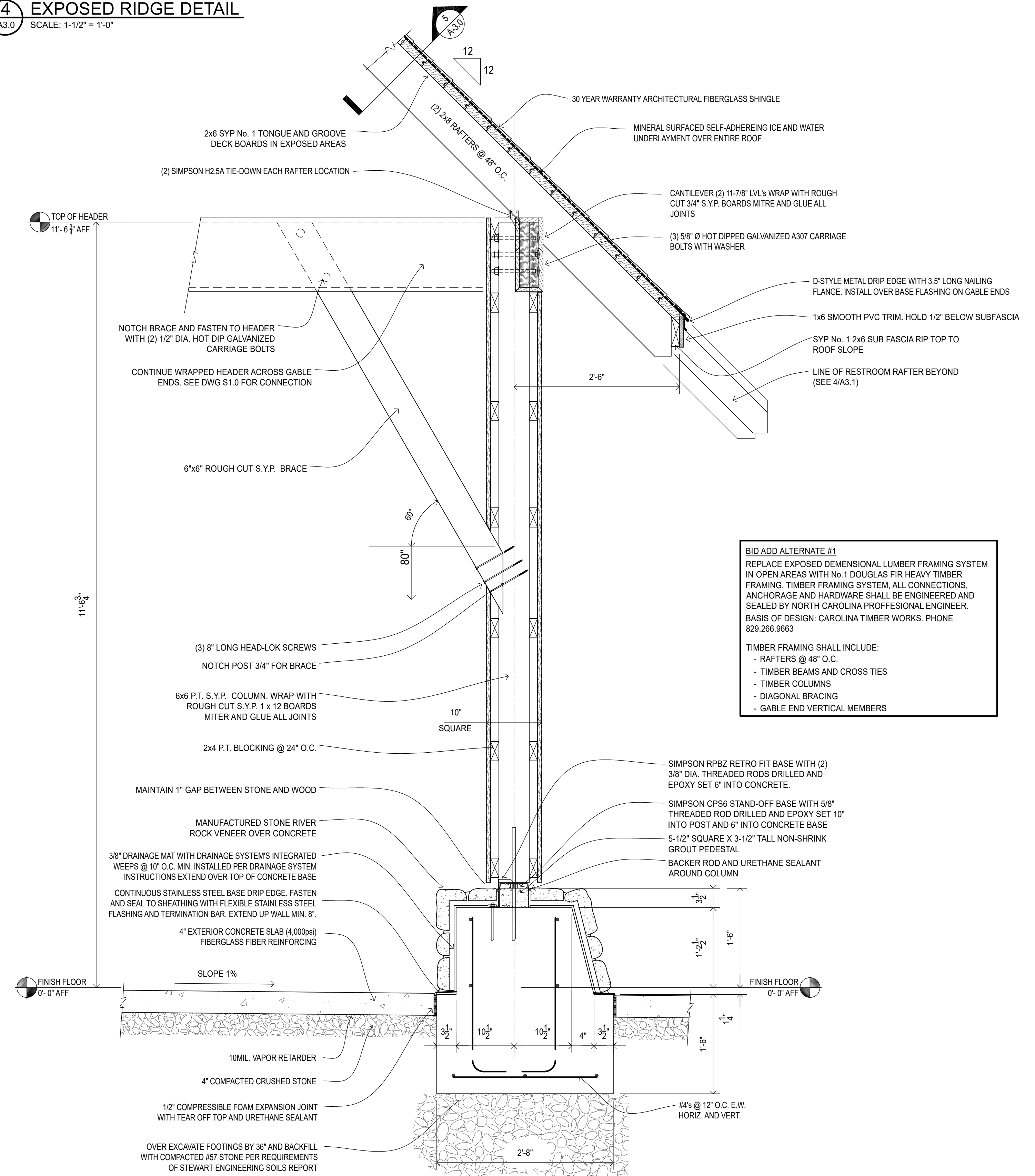
4 EXPOSED RIDGE DETAIL
A3.0 SCALE: 1-1/2" = 1'-0"



5 EXPOSED RAFTER DETAIL
A3.0 SCALE: 1-1/2" = 1'-0"



1 SECTION AT RESTROOM WALL
A3.0 SCALE: 1" = 1'-0"

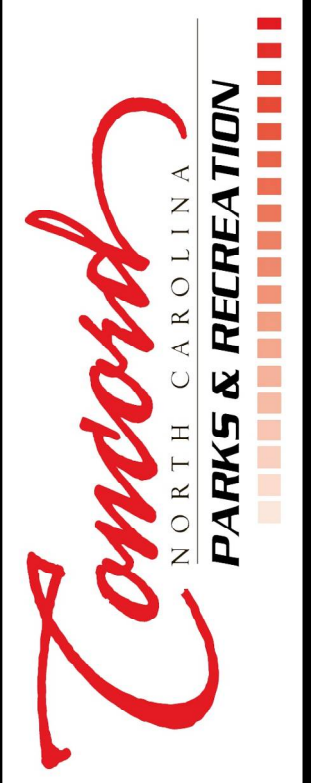


3 SECTION AT TIMBER COLUMN
A3.0 SCALE: 1" = 1'-0"

BID ADD ALTERNATE #1
REPLACE EXPOSED DIMENSIONAL LUMBER FRAMING SYSTEM IN OPEN AREAS WITH NO. 1 DOUGLAS FIR HEAVY TIMBER FRAMING. TIMBER FRAMING SYSTEM, ALL CONNECTIONS, ANCHORAGE AND HARDWARE SHALL BE ENGINEERED AND SEALED BY NORTH CAROLINA PROFESSIONAL ENGINEER. BASIS OF DESIGN: CAROLINA TIMBER WORKS. PHONE 829.266.9663

TIMBER FRAMING SHALL INCLUDE:
 - RAFTERS @ 48" O.C.
 - TIMBER BEAMS AND CROSS TIES
 - TIMBER COLUMNS
 - DIAGONAL BRACING
 - GABLE END VERTICAL MEMBERS

NO.	DATE	BY	CHIEF	DESCRIPTION
1	11/15/2021	BHC	BHC	ADDENDUM 1
2	12/06/2021	BHC	BHC	ADDENDUM 2

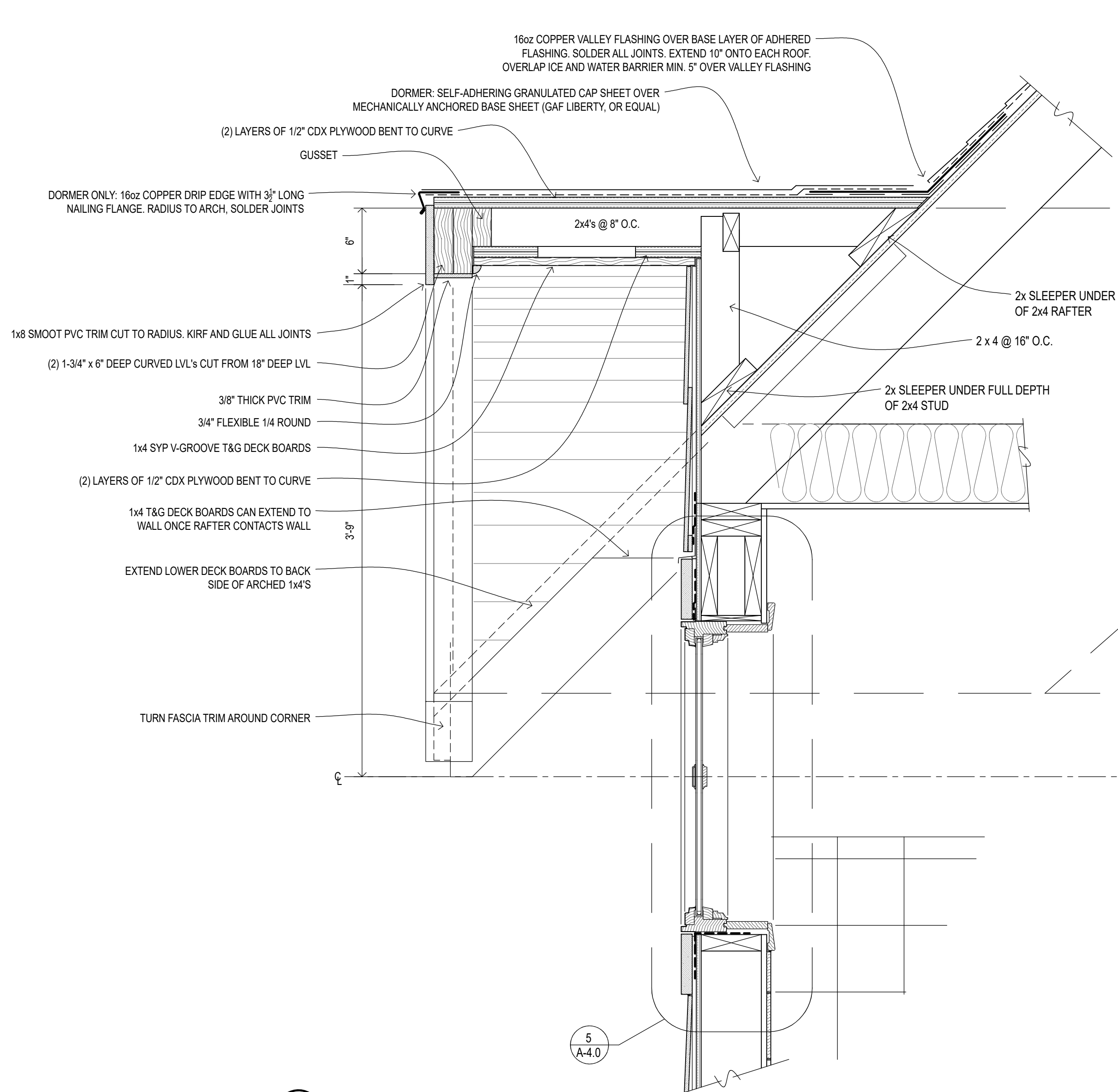


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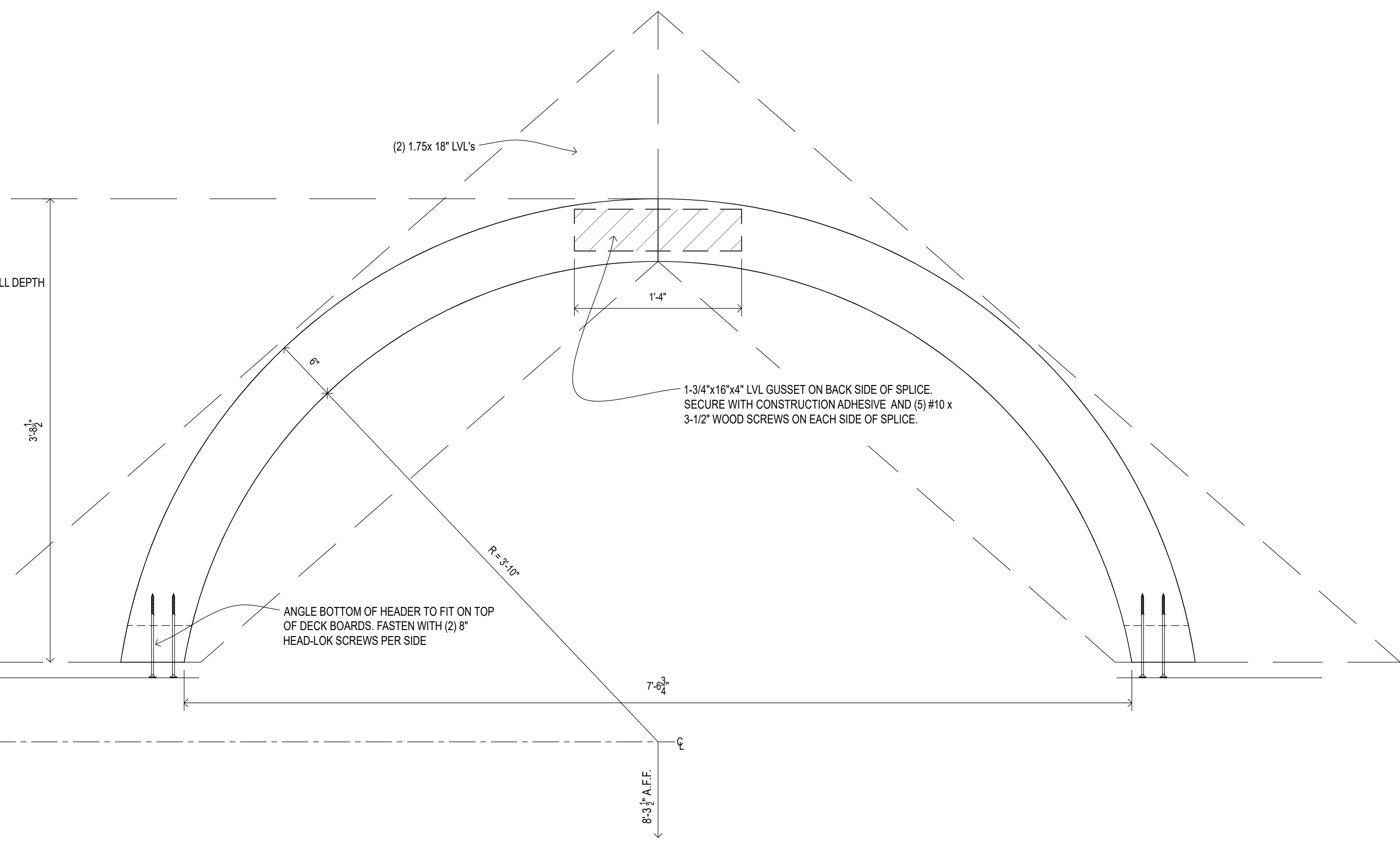
citizen design
 2408 Commonwealth Ave.
 Charlotte, NC 28205
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DATE: 12/06/2021
 NAME:
 SECTIONS AND DETAILS

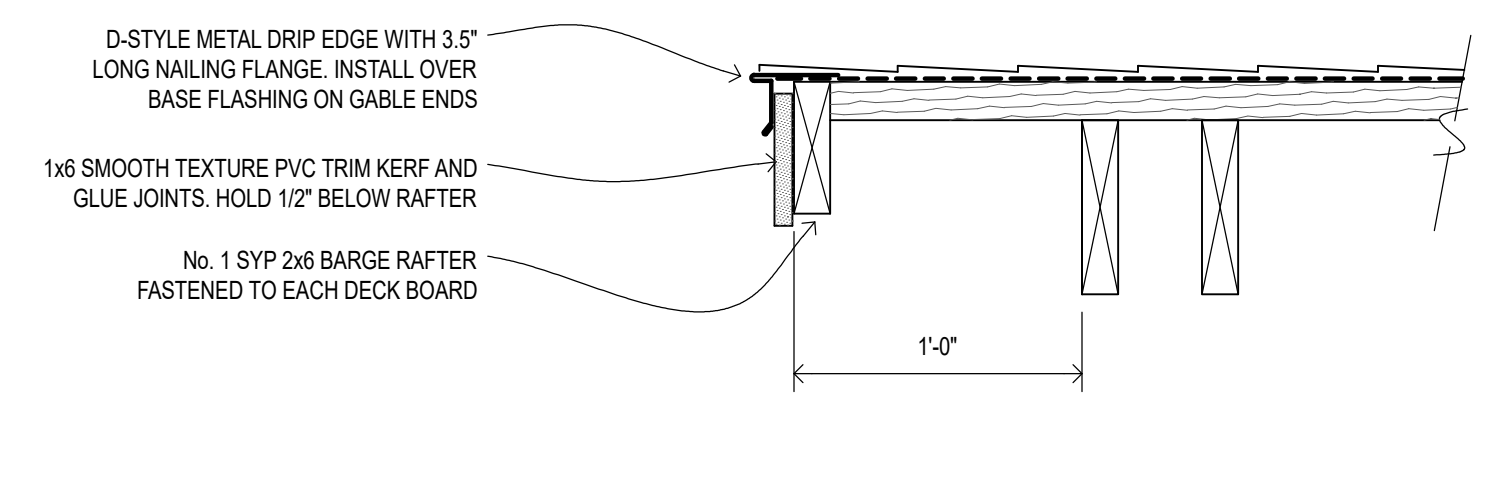
SHEET:
A 3.0



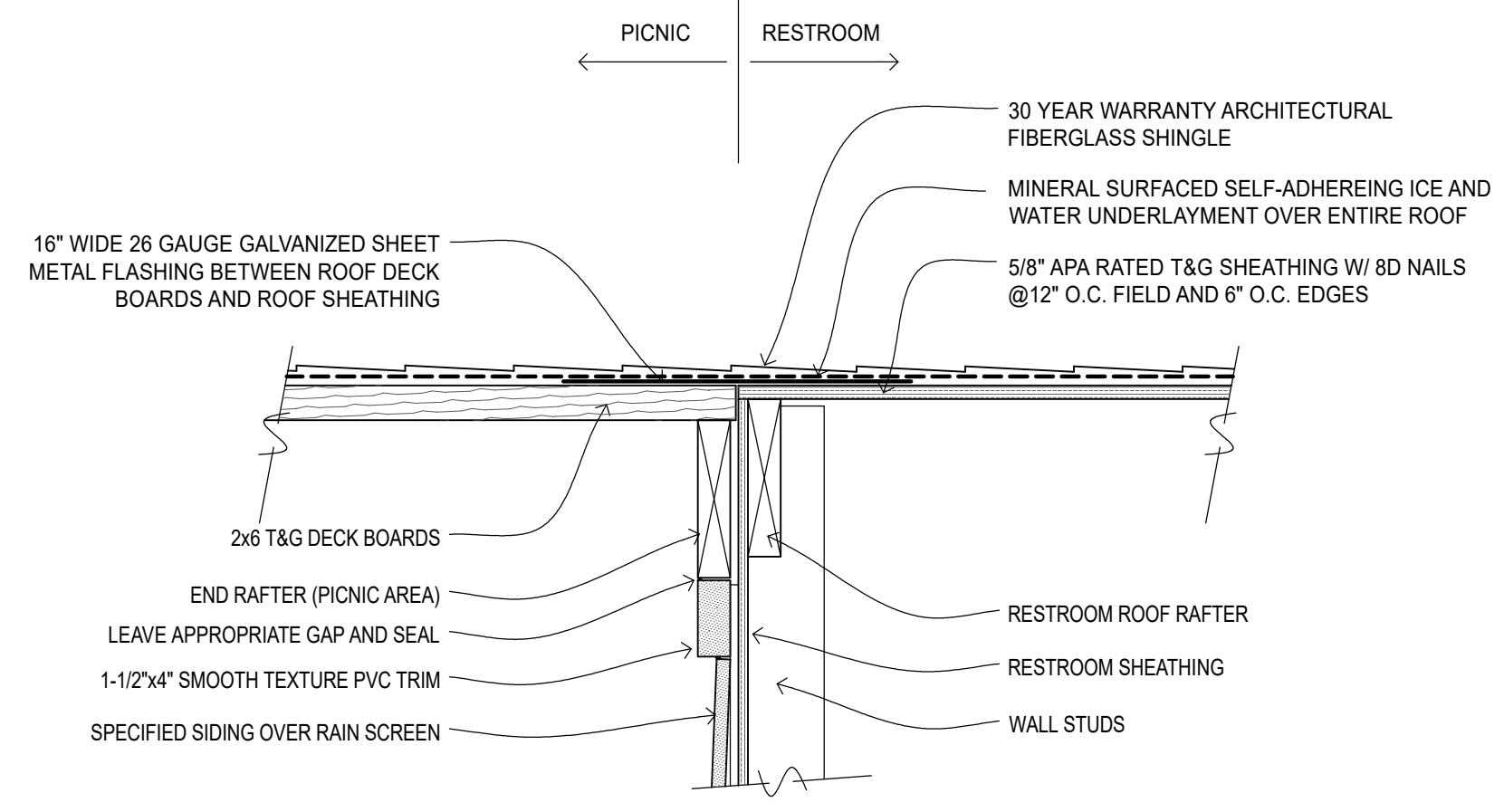
1 DORMER SECTION
A3.1 SCALE: 1-1/2"=1'-0"



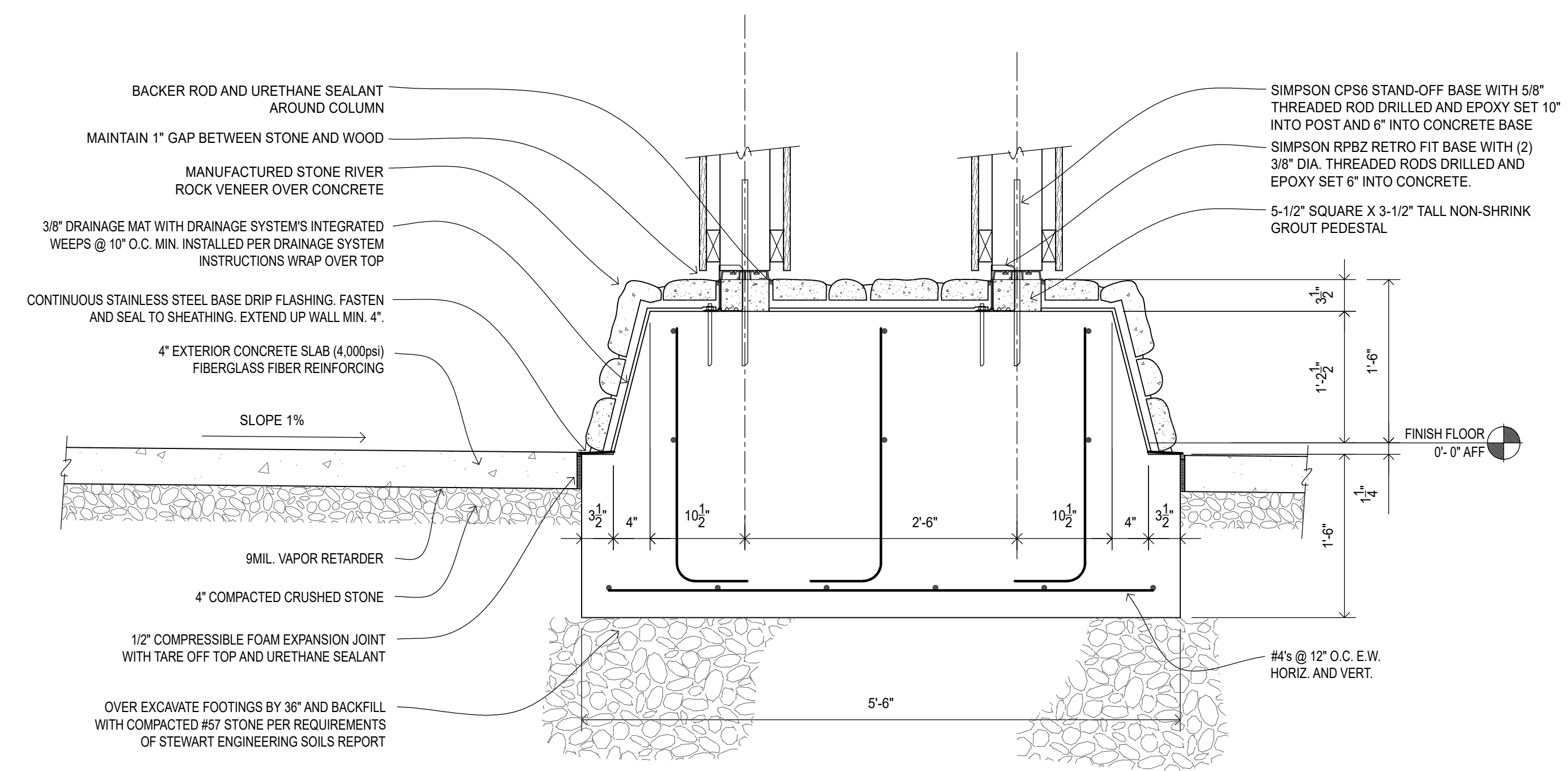
3 ARCHED DORMER HEADER FRONT VIEW
A3.1 SCALE: 1-1/2"=1'-0"



4 GABLE END
A3.1 SCALE: 1-1/2"=1'-0"

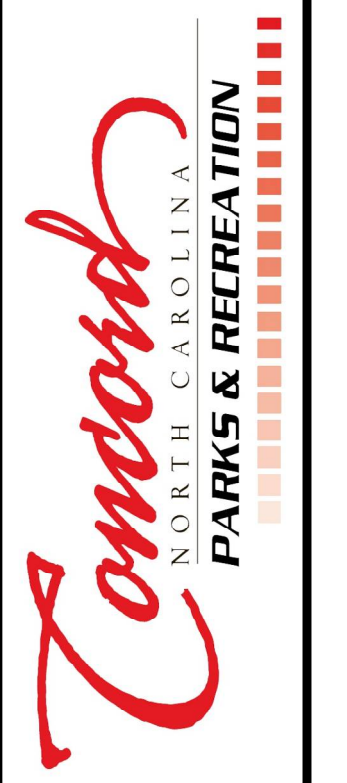
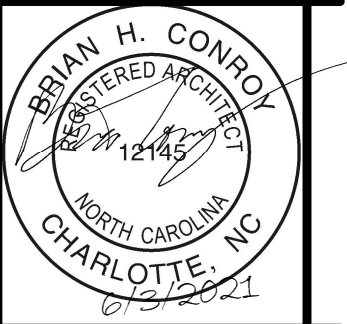


5 ROOF SHEATHING TRANSITION
A3.1 SCALE: 1-1/2"=1'-0"



2 SECTION AT REAR COLUMN
A3.1 SCALE: 1"=1'-0"

REVISIONS	NO.	DATE	BY	CHKD	DESCRIPTION



City of Concord Parks and Recreation
Wilson Street Park
 106 Wilson Street, Concord, NC 28026

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DATE: 06/03/2021
 NAME:
 ELEVATIONS AND DETAILS

SHEET:
A
3.1

DOOR SCHEDULE					
DOOR No.	DOOR	DOOR SIZE	FRAME	HARDWARE SET	COMMENTS
01	H.M.	3'-0"x7'-0"	A	01	DOOR OPERATES AS PUSH/PULL WHEN FACILITY OPEN
02	H.M.	3'-0"x7'-0"	A	01	DOOR OPERATES AS PUSH/PULL WHEN FACILITY OPEN
03	H.M.	3'-0"x7'-0"	B	02	

DOOR NOTES:

- OWNER APPROVED SUBMISSION BY AHC CERTIFIED DOOR HARDWARE CONSULTANT REQUIRED BEFORE INSTALLATION OF DOORS AND HARDWARE.
- DOORS AND FRAMES TO BE PAINTED WITH TWO COATS OF HIGH GLOSS EPOXY PAINT.
- DOOR HARDWARE TO MEET THE ACCESSIBILITY REQUIREMENTS OF ANSI117.1 AND NC BUILDING CODE.
- ALL DOOR HARDWARE TO MEET ANSI GRADE 1 STANDARDS FOR INSTITUTIONAL DUTY. INCLUDE ALL APPURTENANCES TO MAKE FULLY FUNCTIONAL AS INTENDED BY OWNER.
- ALL HARDWARE TO BE STAINLESS STEEL SATIN FINISH
- OWNER TO PROVIDE PERMANENT 7-PIN CORES AT SUBSTANTIAL COMPLETION. CONTRACTOR TO PROVIDE REMOVABLE CONSTRUCTION CORES.
- CONTRACTOR TO PROVIDE AND INSTALL KNOX BOX ON EXTERIOR OF BUILDING. COORDINATE LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.

- HARDWARE SET 02:**
- FRAME: 14 GAGE GALVANIZED WELDED HOLLOW METAL FRAME. KNOCKDOWN FRAMES ARE NOT PERMITTED. EXPOSED WELDS TO BE GROUND AND FINISHED SMOOTH.
 - CYLINDER: BEST INTERCHANGEABLE - TO MATCH OWNERS CURRENT FORMAT TO ACCEPT BEST INTERCHANGEABLE CORES. INTEGRATED STAINLESS STEEL TRIM WITH LOCKSET
 - LOCKSET: STOREROOM FUNCTION, SINGLE CYLINDER FULL MORTISE, INSTITUTIONAL DUTY WITH ANSI-117.1 COMPLIANT CAST STAINLESS STEEL WITH NELL ROUNDED PROFILE LEVERS. ONLY LOCKABLE WITH KEY FROM EXTERIOR. EXTERIOR LEVER IS INOPERATIVE. LATCH BOLT ALWAYS RETRACT FROM INTERIOR (INSIDE LEVER ALWAYS FREE FOR IMMEDIATE EGRESS).
 - HINGES: HEAVY WEIGHT 5 KNUCKLE BALL BEARING STAINLESS STEEL (3) PER DOOR
 - CLOSER: VANDAL RESISTANT WITH CAST IRON BODY. FORGED PARALLEL ARMS AND HOLD OPEN. METAL COVER. MOUNT ON INTERIOR SIDE OF DOOR.
 - WALL STOP: INDUSTRIAL DUTY STAINLESS STEEL WALL MOUNT WITH RUBBER BUMPER
 - THRESHOLD: 1/4" TO 1/2", 5-1/2" WIDE OFFSET INDUSTRIAL DUTY ALUMINUM ANSI-117.1 COMPLIANT (VERIFY EPOXY FLOOR).
 - KICK PLATE: 12"x34" x .050 STAINLESS STEEL. MOUNT ON PUSH SIDE OF DOOR.
 - DRIP CAP: ALUMINUM MOUNTED TO FRAME EXTERIOR
 - SWEEP: ALUMINUM WITH NYLON BRISTLES
 - SEALS: ALUMINUM WITH HEAVY DUTY BULB TYPE SEALS
 - ESCUTCHEONS: 4" x 12" .050 STAINLESS STEEL. PROVIDE ON BOTH SIDES OF DOOR.

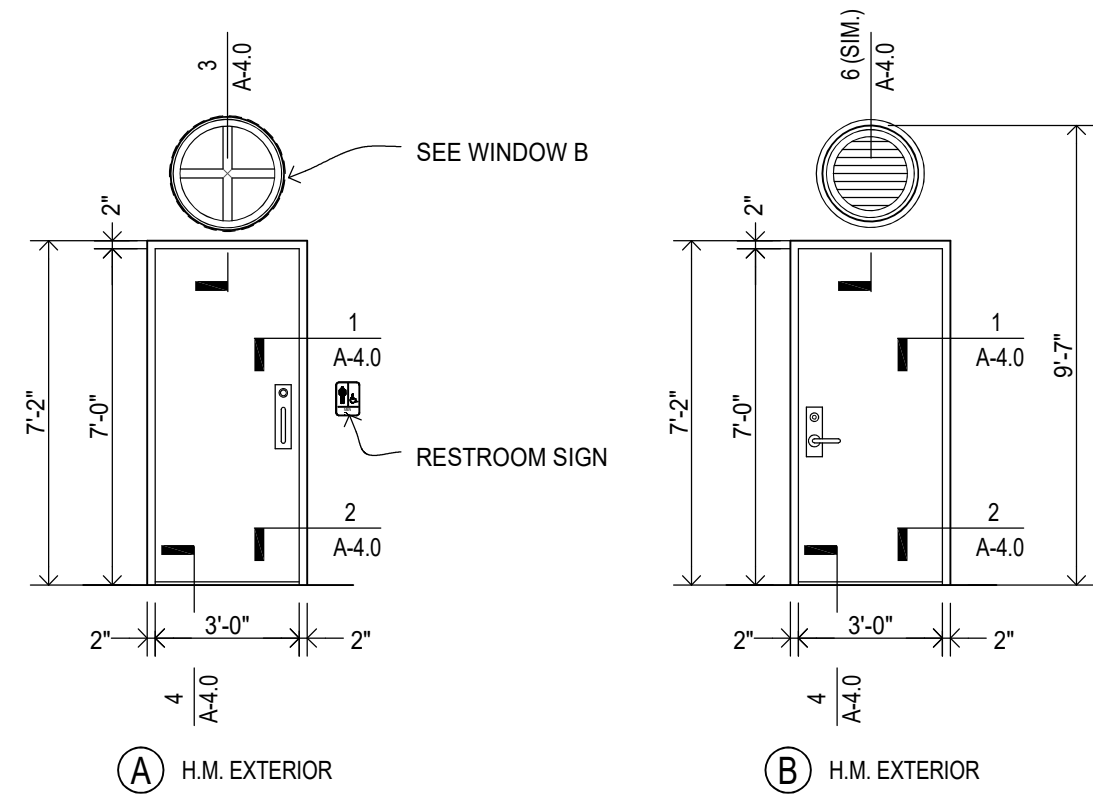
- HARDWARE SET 01:**
- CYLINDER: BEST INTERCHANGEABLE - TO MATCH OWNERS CURRENT FORMAT TO ACCEPT BEST INTERCHANGEABLE CORES. INTEGRATED STAINLESS STEEL TRIM WITH LOCKSET
 - LOCKSET: SINGLE CYLINDER FULL MORTISE, DEADLOCK ONLY, INSTITUTIONAL DUTY, ANSI-117.1 COMPLIANT. ONLY LOCKABLE WITH KEY FROM EXTERIOR.
 - THRESHOLD: 5-1/2" WIDE INDUSTRIAL DUTY ALUMINUM ANSI-117.1 COMPLIANT (VERIFY EPOXY FLOOR THICKNESS).
 - KICK PLATE: 12"x34" x .050 STAINLESS STEEL. MOUNT ON PUSH SIDE OF DOOR.
 - DRIP CAP: ALUMINUM MOUNTED TO FRAME EXTERIOR
 - SWEEP: ALUMINUM WITH NYLON BRISTLES
 - SEALS: ALUMINUM WITH HEAVY DUTY BULB TYPE SEALS

- PUSH/PULL PLATES: ADA COMPLIANT 4"x16" x .050 STAINLESS STEEL PUSH AND PULL PLATES. CUT FOR LOCK CYLINDER. PROVIDE 3/4" DIAMETER 8" CTC STAINLESS STEEL PULL HANDLE ON PULL SIDE.
- HINGES: HEAVY WEIGHT 5 KNUCKLE BALL BEARING STAINLESS STEEL (3) PER DOOR
- CLOSER: VANDAL RESISTANT WITH CAST IRON BODY. FORGED PARALLEL ARMS AND POSITIVE STOP HOLD OPEN. METAL COVER. MOUNT ON INTERIOR SIDE OF DOOR

- THRESHOLD: 5-1/2" WIDE INDUSTRIAL DUTY ALUMINUM ANSI-117.1 COMPLIANT (VERIFY EPOXY FLOOR THICKNESS).

- KICK PLATE: 12"x34" x .050 STAINLESS STEEL. MOUNT ON PUSH SIDE OF DOOR.
- DRIP CAP: ALUMINUM MOUNTED TO FRAME EXTERIOR
- SWEEP: ALUMINUM WITH NYLON BRISTLES
- SEALS: ALUMINUM WITH HEAVY DUTY BULB TYPE SEALS

- ROOM SIGN: PLASTIC RESTROOM NAME SIGN WITH CONTRASTING RAISED BORDER AND TEXT MEETING THE ACCESSIBILITY REQUIREMENTS OF ANSI-117.1. SEE TYPICAL MOUNTING HEIGHTS FOR ADDITIONAL INFORMATION.



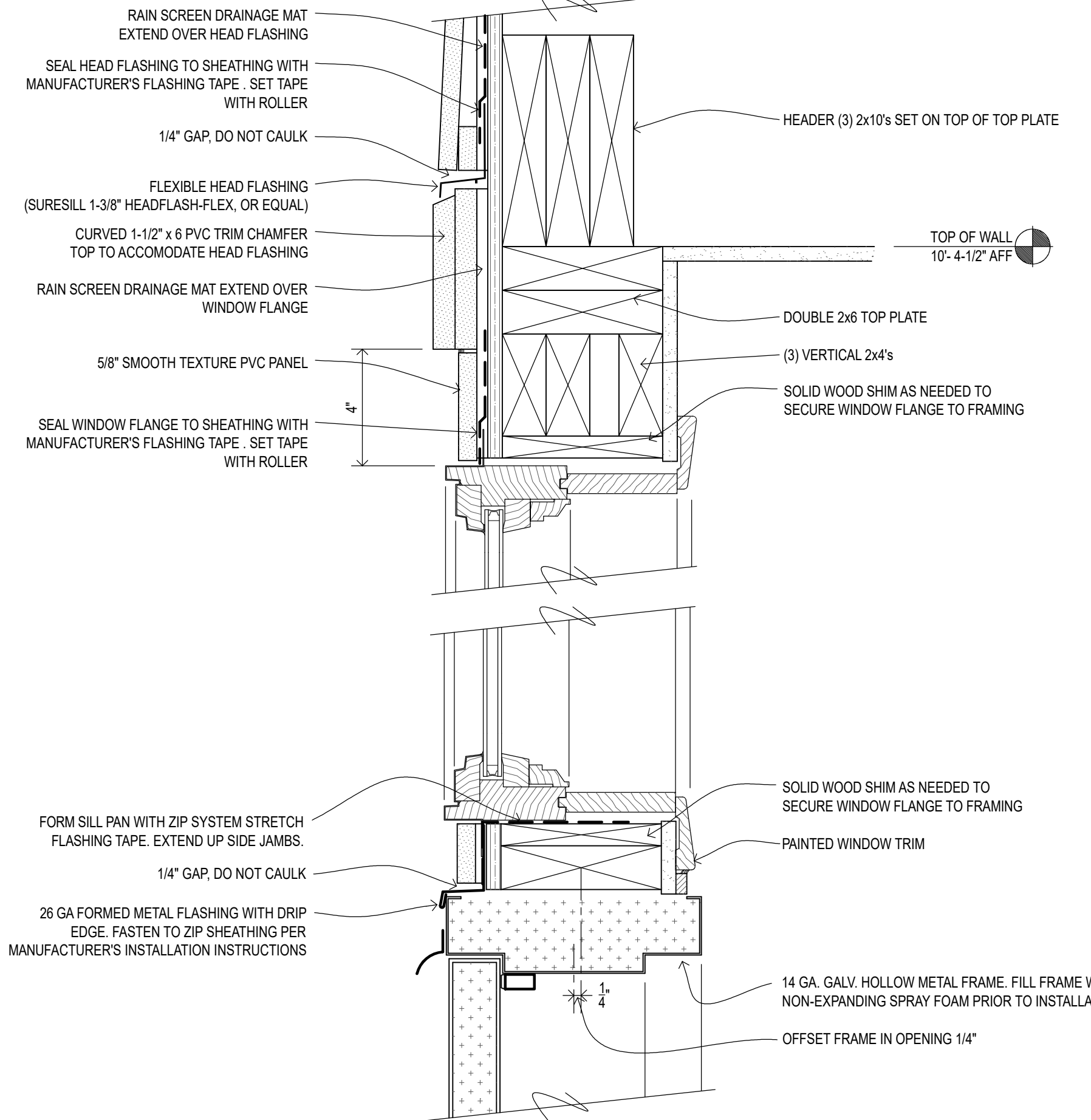
HARDWARE SET 02:

- CYLINDER: BEST INTERCHANGEABLE - TO MATCH OWNERS CURRENT FORMAT TO ACCEPT BEST INTERCHANGEABLE CORES. INTEGRATED STAINLESS STEEL TRIM WITH LOCKSET
- LOCKSET: STOREROOM FUNCTION, SINGLE CYLINDER FULL MORTISE, INSTITUTIONAL DUTY WITH ANSI-117.1 COMPLIANT CAST STAINLESS STEEL WITH NELL ROUNDED PROFILE LEVERS. ONLY LOCKABLE WITH KEY FROM EXTERIOR. EXTERIOR LEVER IS INOPERATIVE. LATCH BOLT ALWAYS RETRACT FROM INTERIOR (INSIDE LEVER ALWAYS FREE FOR IMMEDIATE EGRESS).
- HINGES: HEAVY WEIGHT 5 KNUCKLE BALL BEARING STAINLESS STEEL (3) PER DOOR
- CLOSER: VANDAL RESISTANT WITH CAST IRON BODY. FORGED PARALLEL ARMS AND HOLD OPEN. METAL COVER. MOUNT ON INTERIOR SIDE OF DOOR.
- WALL STOP: INDUSTRIAL DUTY STAINLESS STEEL WALL MOUNT WITH RUBBER BUMPER
- THRESHOLD: 1/4" TO 1/2", 5-1/2" WIDE OFFSET INDUSTRIAL DUTY ALUMINUM ANSI-117.1 COMPLIANT (VERIFY EPOXY FLOOR).
- KICK PLATE: 12"x34" x .050 STAINLESS STEEL. MOUNT ON PUSH SIDE OF DOOR.
- DRIP CAP: ALUMINUM MOUNTED TO FRAME EXTERIOR
- SWEEP: ALUMINUM WITH NYLON BRISTLES
- SEALS: ALUMINUM WITH HEAVY DUTY BULB TYPE SEALS
- ESCUTCHEONS: 4" x 12" .050 STAINLESS STEEL. PROVIDE ON BOTH SIDES OF DOOR.

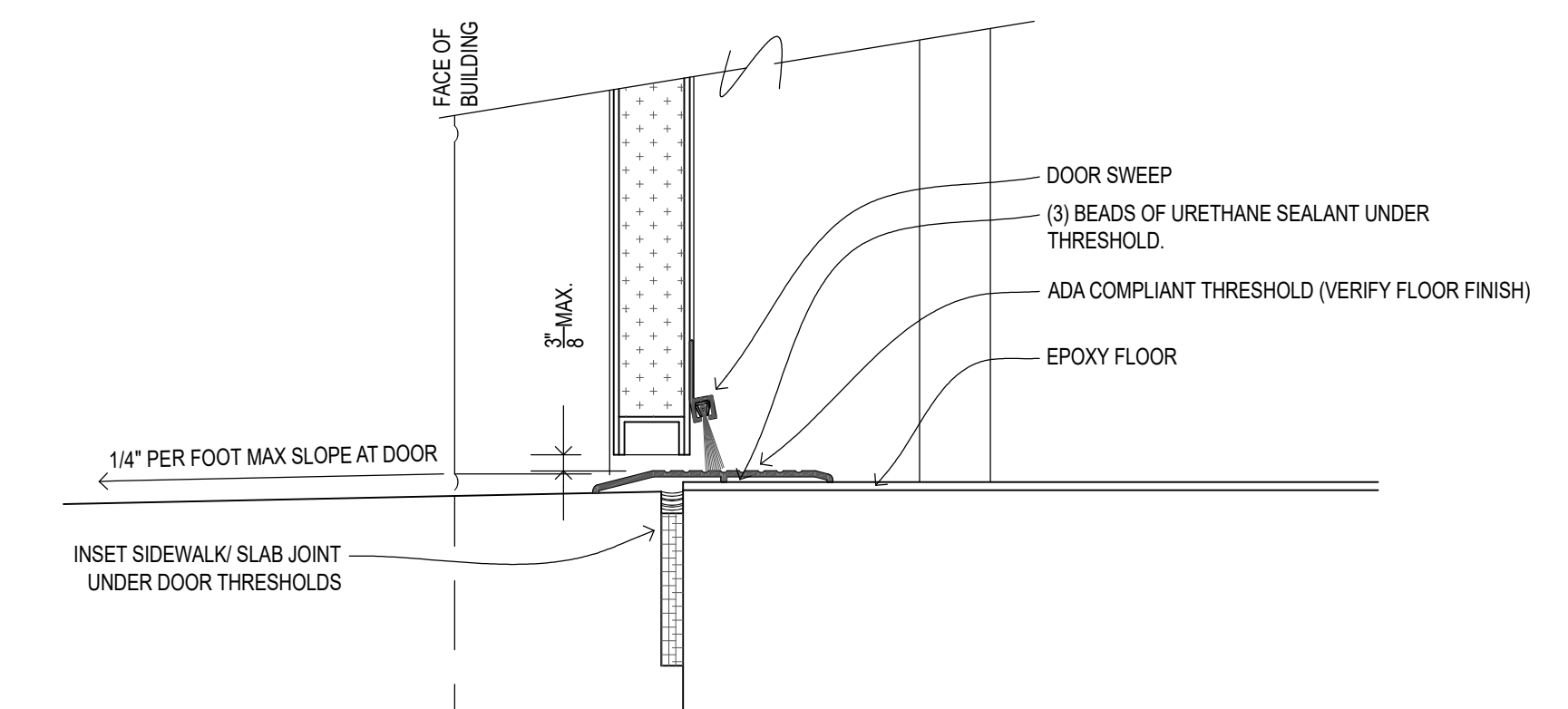
- THRESHOLD: 5-1/2" WIDE INDUSTRIAL DUTY ALUMINUM ANSI-117.1 COMPLIANT (VERIFY EPOXY FLOOR THICKNESS).

- KICK PLATE: 12"x34" x .050 STAINLESS STEEL. MOUNT ON PUSH SIDE OF DOOR.
- DRIP CAP: ALUMINUM MOUNTED TO FRAME EXTERIOR
- SWEEP: ALUMINUM WITH NYLON BRISTLES
- SEALS: ALUMINUM WITH HEAVY DUTY BULB TYPE SEALS

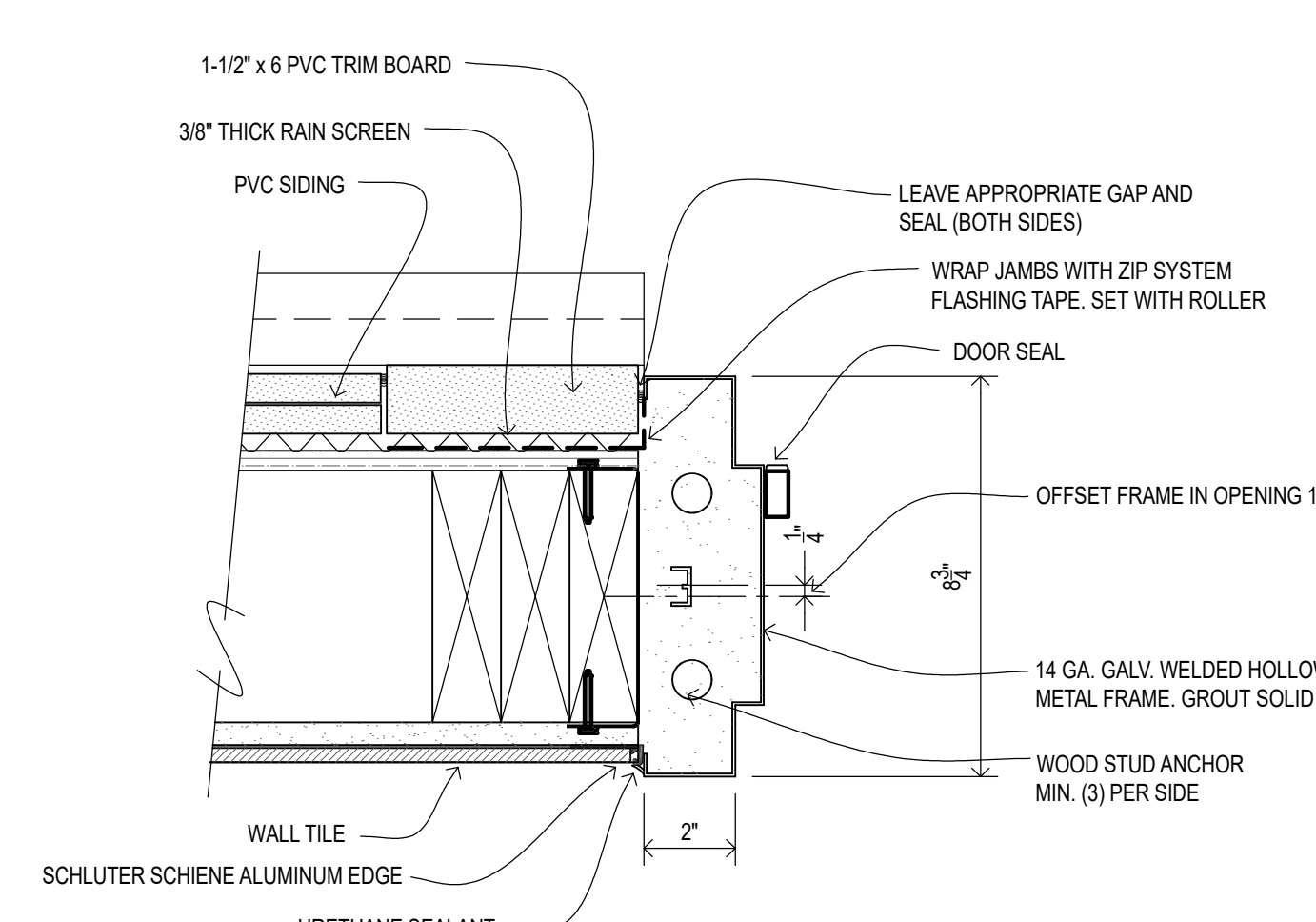
- ROOM SIGN: PLASTIC RESTROOM NAME SIGN WITH CONTRASTING RAISED BORDER AND TEXT MEETING THE ACCESSIBILITY REQUIREMENTS OF ANSI-117.1. SEE TYPICAL MOUNTING HEIGHTS FOR ADDITIONAL INFORMATION.



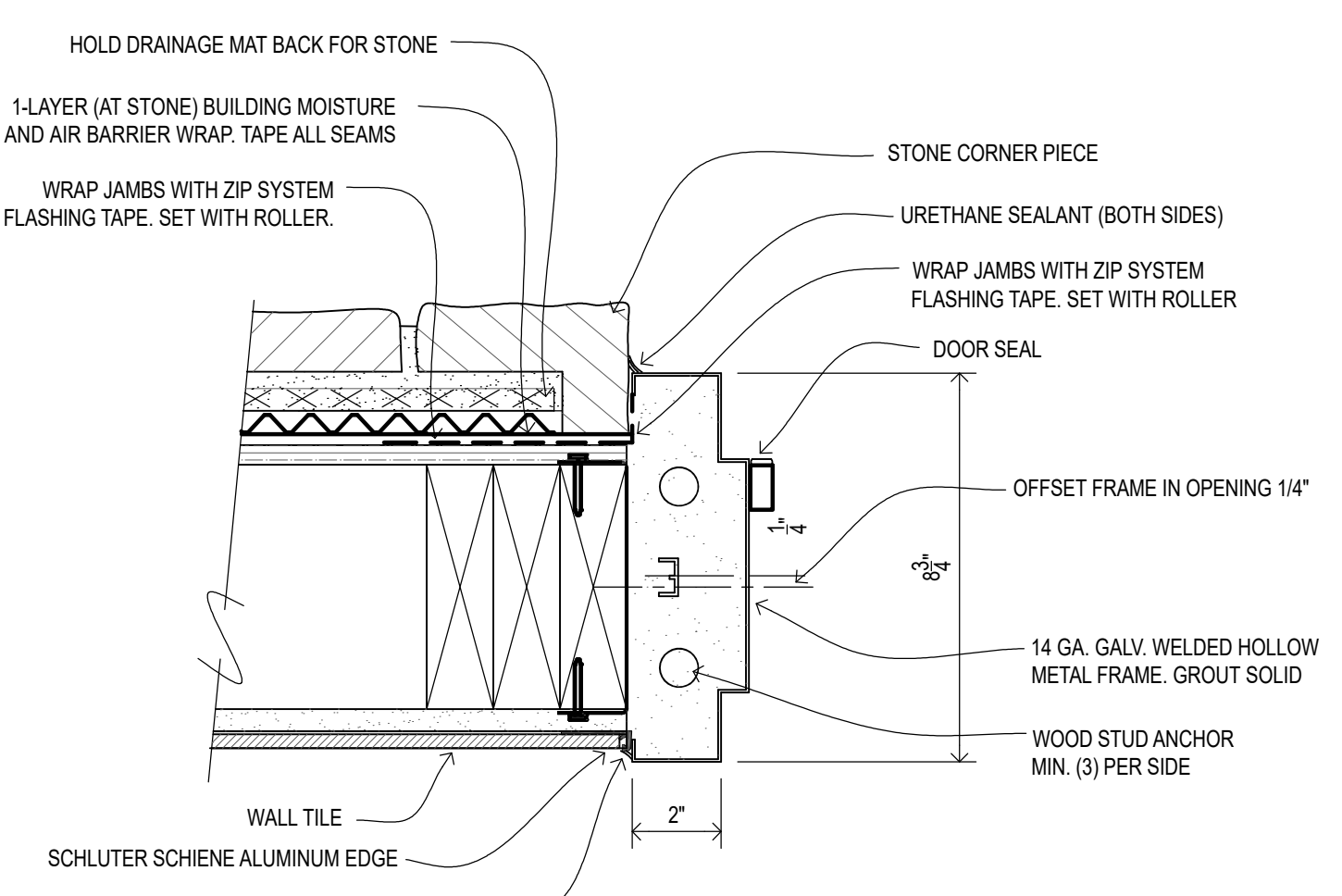
3 DOOR HEAD
A4.0 SCALE: 3" = 1'-0"



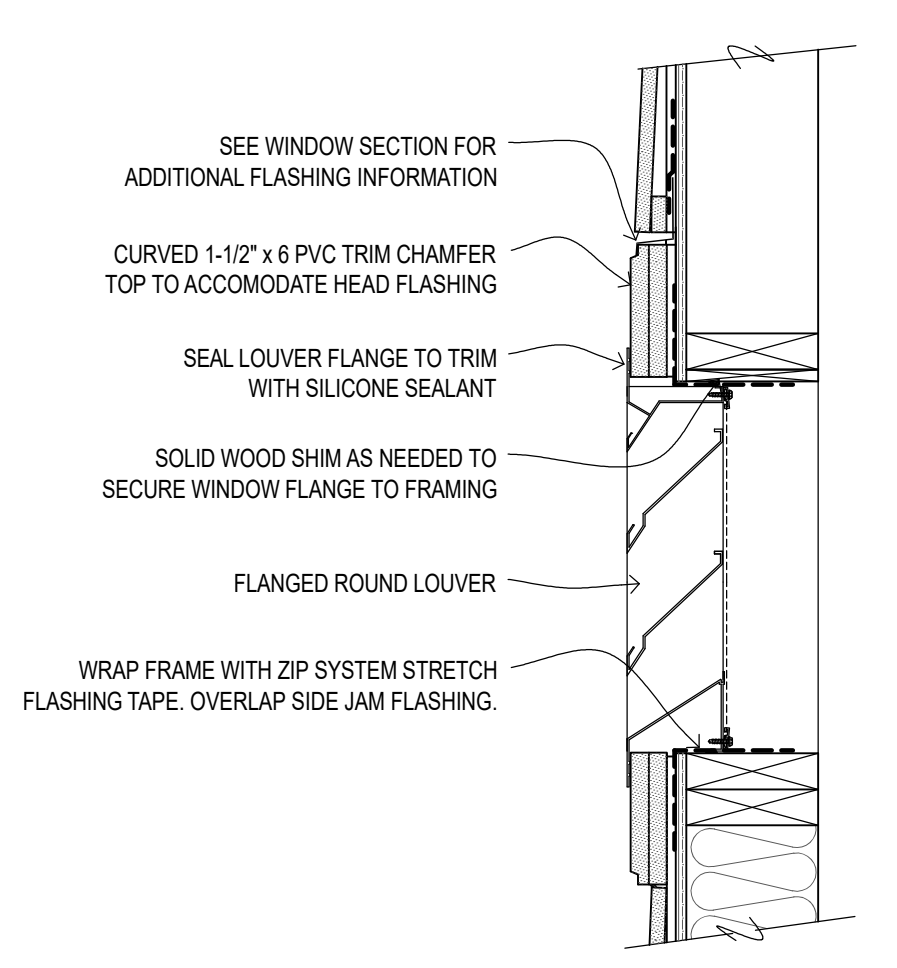
4 DOOR THRESHOLD
A4.0 SCALE: 3" = 1'-0"



1 UPPER DOOR JAMB
A4.0 SCALE: 3" = 1'-0"



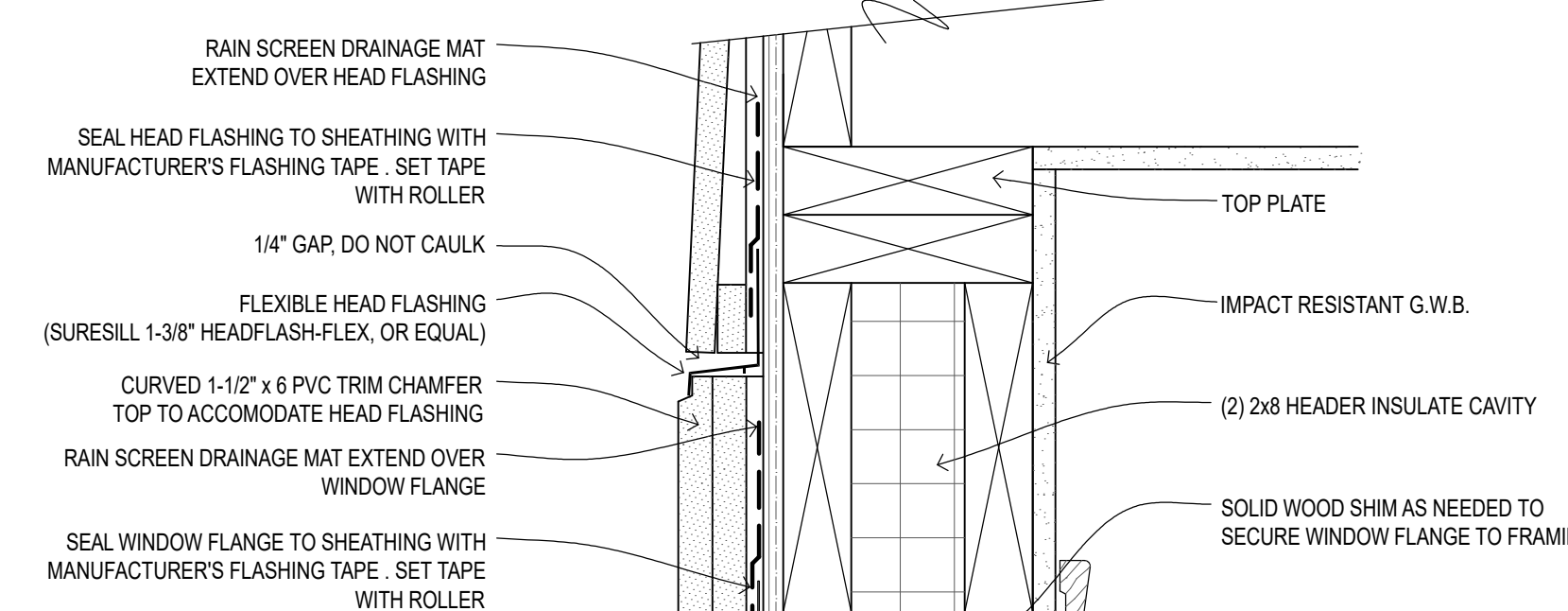
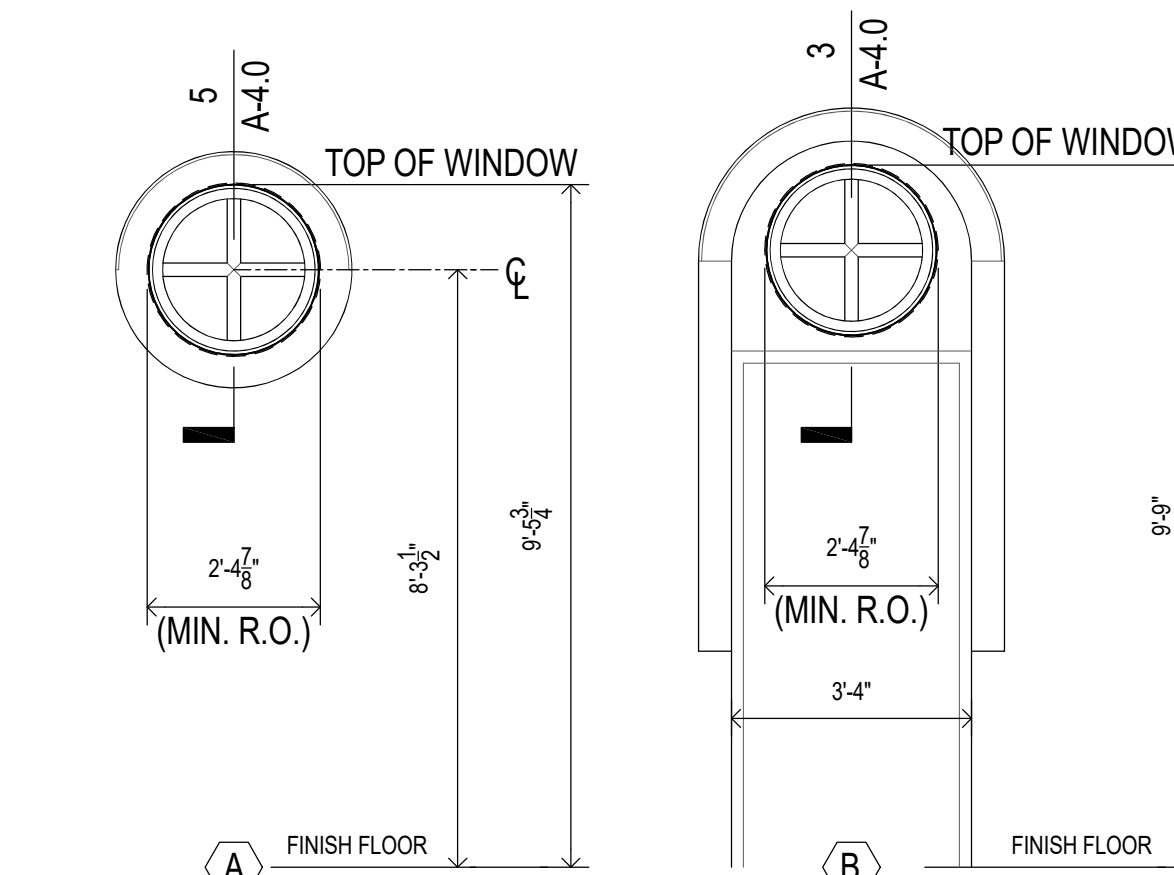
2 LOWER DOOR JAMB
A4.0 SCALE: 3" = 1'-0"



6 LOUVER DETAIL
A4.0 SCALE: 3" = 1'-0"

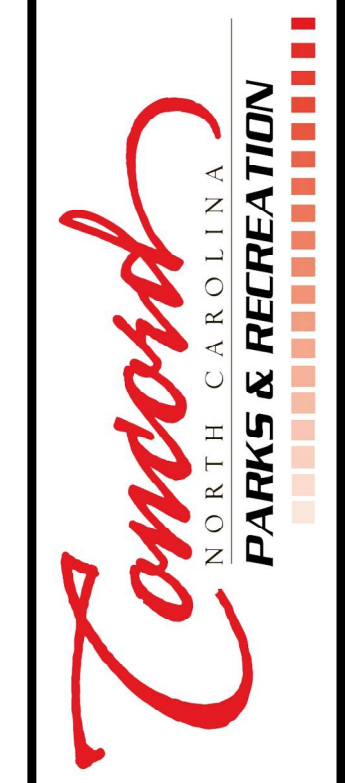
WINDOW SCHEDULE				
WINDOW TYPE	FRAME AND MULLIONS	SHGC	MAX. U VALUE	COMMENTS
(A)	24" DIAMETER VINYL CLAD WOOD ROUND WINDOW WITH 2-1/4" INTERIOR AND EXTERIOR MULLIONS	0.25	0.32	INSULATED GLAZING
(B)	24" DIAMETER VINYL CLAD WOOD ROUND WINDOW WITH 2-1/4" INTERIOR AND EXTERIOR MULLIONS	0.25	0.32	INSULATED GLAZING

ROUND WINDOWS: ANDERSON WINDOWS, 400 SERIES (CIR 24) VINYL CLAD WOOD WINDOW WITH 2-1/4" INTERIOR AND EXTERIOR MULLIONS. INTERIOR JAMB EXTENSION AND WM324 INTERIOR PINE CASING.



5 WINDOW SECTION
A4.0 SCALE: 3" = 1'-0"

REVISIONS	NO.	DATE	BY	CHIEF	DESCRIPTION

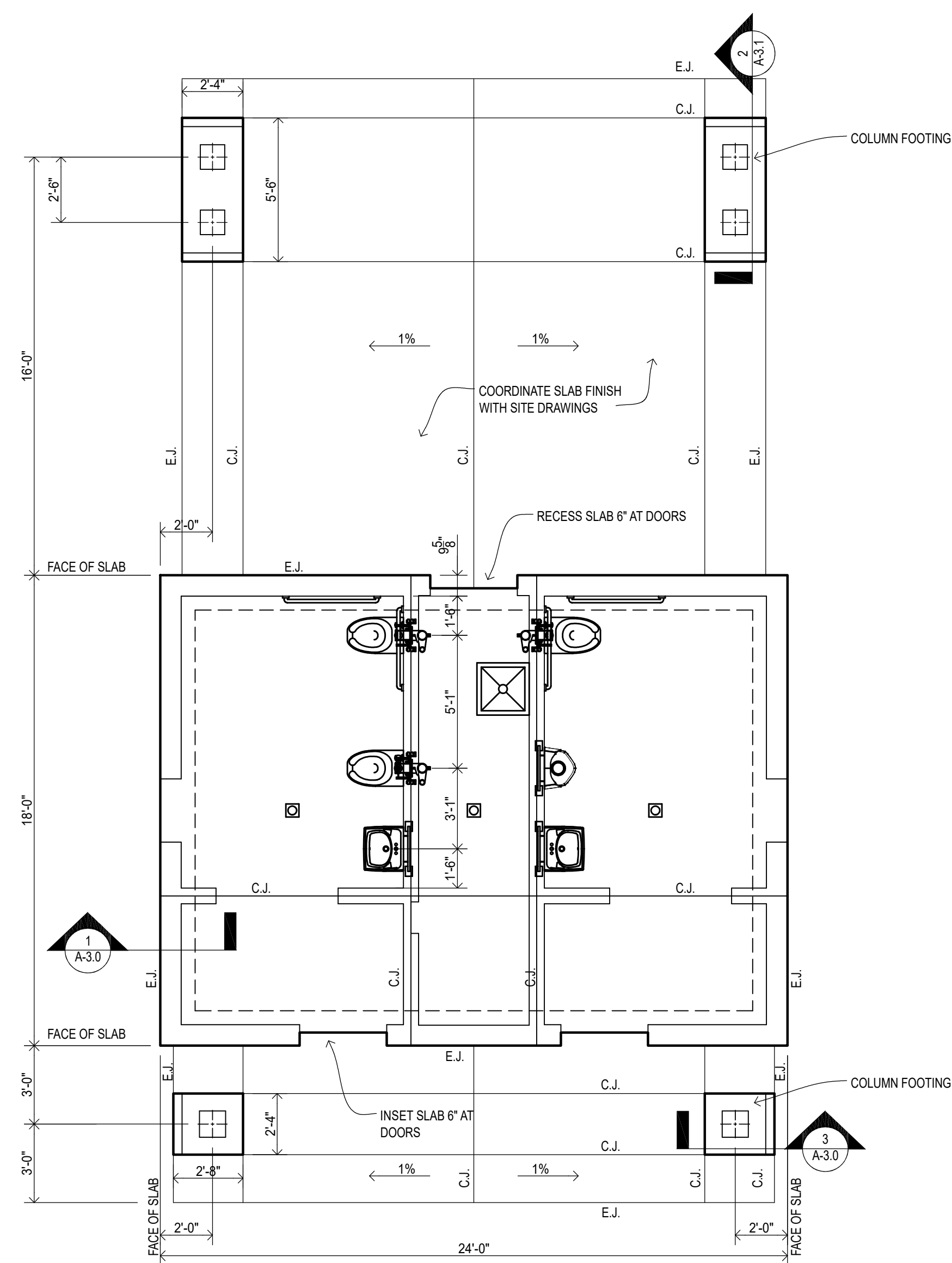


City of Concord Parks and Recreation
Wilson Street Park
 106 Wilson Street, Concord, NC 28026

citizen design
 2408 Commonwealth Ave.
 Charlotte, NC 28205
 Architecture • Planning • Stuff

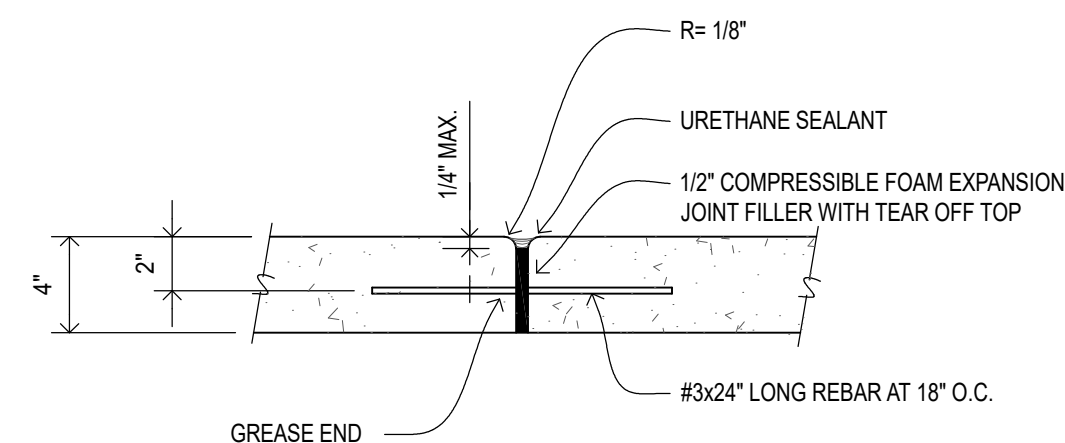
DATE: 06/03/2021
 NAME: DOOR AND WINDOW DETAILS
 SHEET: A 4.0

1 FOUNDATION PLAN
S1.0 SCALE: 1/4" = 1'-0"

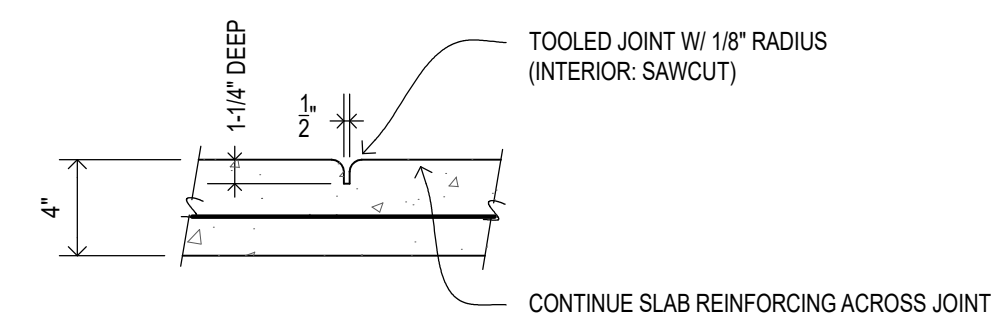


FOUNDATION PLAN NOTES:

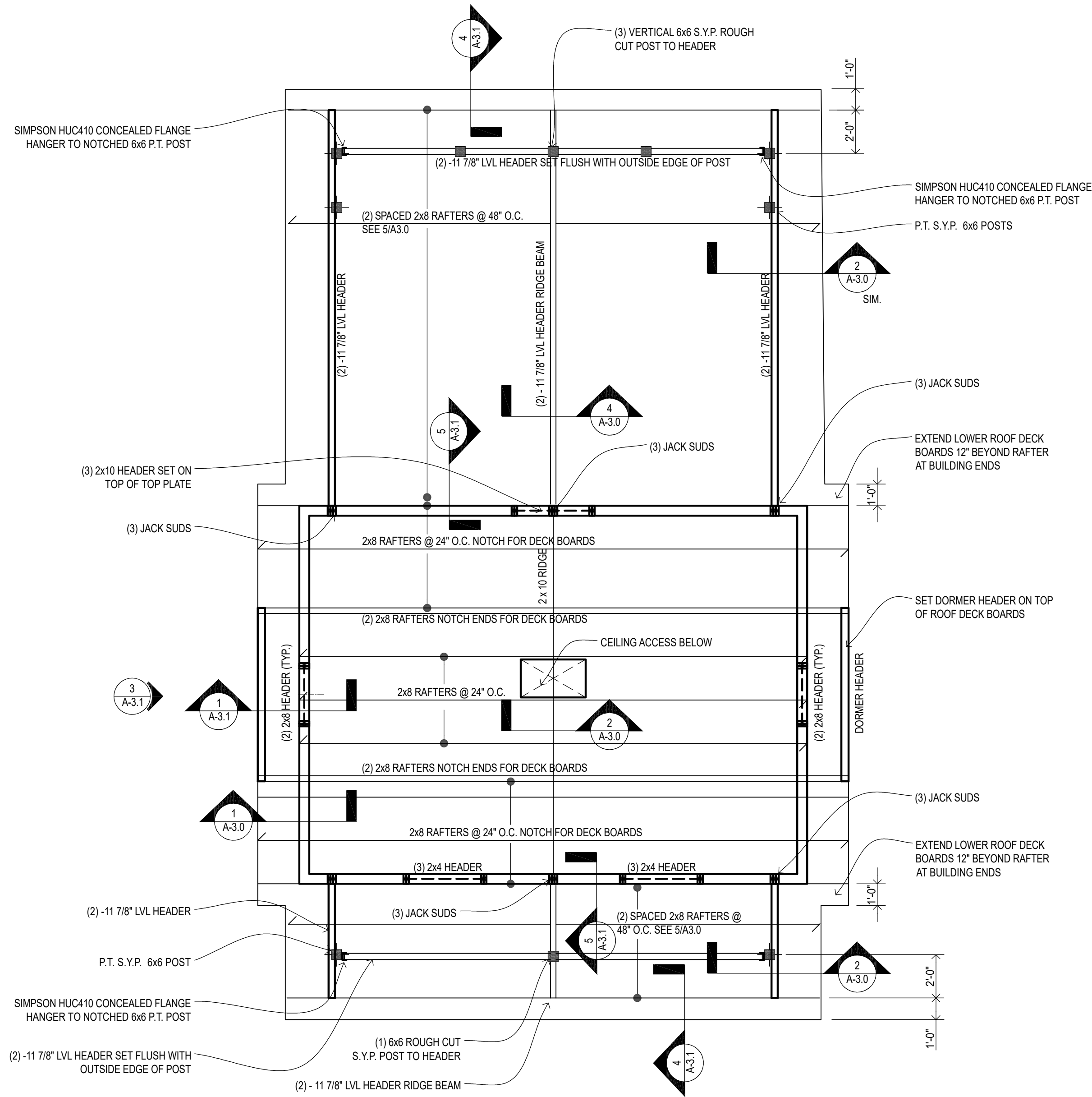
- PERIMETER SLAB TURN DOWN SHALL BE 18" DEEP x 16" WIDE WITH (2) #3 CONT. 4,000PSI CONCRETE.
- OVER EXCAVATE FOOTINGS BY 36" AND BACKFILL WITH COMPACTED #57 STONE PER REQUIREMENTS OF STEWART ENGINEERING SOILS REPORT DATED 6/3/2021
- SLAB ON GRADE SHALL BE 4" THICK 4,000PSI CONCRETE WITH FIBERMESH REINFORCING OR 6x6W/1.4x1.4 WWF OVER 10 MIL VAPOR BARRIER OVER 4" CLEAN CRUSHED STONE.
- MAXIMUM CROSS SLOPE OF ANY FLOOR SURFACE SHALL NOT EXCEED 1/48
- INTERIOR CONCRETE FLOOR SLAB CURED AND PREPARED PER FINISH FLOOR COVERING MANUFACTURERS WRITTEN INSTRUCTIONS. SMOOTH LIGHT TROWEL FINISH. DO NOT HARD TROWEL.
- NON-STAMPED EXTERIOR CONCRETE TO HAVE LIGHT BROOM FINISH.
E.J. - EXPANSION JOINT WITH TOOLED EDGES. 1/2" FOAM EXPANSION JOINT WITH TEAR OFF TOP AND URETHANE SEALANT.
C.J. - CONTROL JOINT WITH TOOLED EDGES ON EXTERIOR AND SAW CUT INTERIOR. SPACING AS SHOWN OR 12' O.C. MAXIMUM.
- COORDINATE UTILITY AND CONDUIT ROUGH-INS WITH MEP AND SITE DRAWINGS.
- EXCAVATIONS FOR FOUNDATIONS AND SLABS TO REST ON UNDISTURBED SUITABLE SOIL OR SELECTED STRUCTURAL FILL COMPACTED TO 100% MAXIMUM DRY DENSITY. 1,500PSF MINIMUM SOIL BEARING PRESSURE



3 SIDEWALK EXPANSION JOINT
S1.0 SCALE: 3/4" = 1'-0"



4 CONTROL JOINT
S1.0 SCALE: 3/4" = 1'-0"



2 FRAMING PLAN
S1.0 SCALE: 1/4" = 1'-0"

FRAMING NOTES:

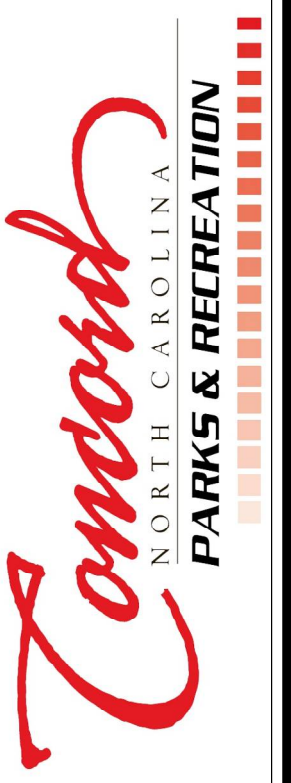
- WOOD FRAMED BRACED WALL LINE NOTE:**
THIS STRUCTURE HAS BEEN ANALYZED FOR LATERAL LOADING USING 7/16 OSB RATED WALL SHEATHING FASTENED W/ 8D NAILS AT 6" O.C. ALONG EDGES AND 12" O.C. AT INTERMEDIATE FRAMING. BLOCK AND NAIL ALL PANEL EDGES.
- RESTROOM CEILING JOISTS: 2x6s SPF #2 @ 24" O.C.
- PROVIDE DOUBLE CEILING JOISTS AROUND 22.5"x36" ACCESS TO ATTIC.
- ALL WALL STUDS SHALL BE 2x6 SPF #2 @ 16" O.C. UNLESS OTHERWISE NOTED.
- ALL LOAD BEARING HEADERS SHALL BE (2) 2x6s SPF #2 UNLESS OTHERWISE NOTED.
- MINIMUM (1) JACK STUD AND (1) KING STUD TO BE INSTALLED ON EACH SIDE OF OPENING UNLESS OTHERWISE NOTED.
- FASTEN FIRST KING STUD TO LUMBER HEADER WITH AT LEAST (3) 16D (3-1/2"x 0.162") IN EACH PLY.
- COORDINATE WITH ARCHITECTURAL DRAWINGS FOR ADDITIONAL FRAMING DETAIL INFORMATION.
- TIMBER FRAME ALTERNATE: FINAL TIMBER DESIGN (INCLUDING BRACING AND ATTACHMENTS) TO BE DESIGNED BY TIMBER SUPPLIER AND SEALED BY A NORTH CAROLINA PROFESSIONAL ENGINEER.**

BID ADD ALTERNATE #1
REPLACE EXPOSED DIMENSIONAL LUMBER FRAMING SYSTEM IN OPEN AREAS WITH No.1 DOUGLAS FIR HEAVY TIMBER FRAMING. TIMBER FRAMING SYSTEM, ALL CONNECTIONS, ANCHORAGE AND HARDWARE SHALL BE ENGINEERED AND SEALED BY NORTH CAROLINA PROFESSIONAL ENGINEER. BASIS OF DESIGN: CAROLINA TIMBER WORKS. PHONE: 829.266.9663

TIMBER FRAMING SHALL INCLUDE:
- RAFTERS @ 48" O.C.
- TIMBER BEAMS AND CROSS TIES
- TIMBER COLUMNS
- DIAGONAL BRACING
- GABLE END VERTICAL MEMBERS



REVISIONS	DATE	BY	CHIEF	DESCRIPTION
NO.				



City of Concord Parks and Recreation
Wilson Street Park
106 Wilson Street, Concord, NC 28026

citizen design
2408 Commonwealth Ave.
Charlotte, NC 28205
Architecture • Planning • Staff

DATE: 07/22/2021
NAME: FOUNDATION AND FRAMING PLANS
SHEET: S 1.0

MECHANICAL LEGEND	
	SUPPLY DIFFUSER
	RETURN GRILLE
	RA TRANSFER GRILLE
	EXHAUST FAN
	THERMOSTATIC CONTROL
	REMOTE THERMOSTATIC SENSOR
	CARBON MONOXIDE SENSOR
	OCCUPANCY SENSOR
	RECTANGULAR DUCT
	FLEXIBLE DUCT
	ROUND RIGID DUCT
	TURNING VANES
	VOLUME DAMPER
	BACKDRAFT DAMPER
	SPLITTER DAMPER
	FIRE DAMPER WITH BAR ACCESS DOOR
	CONDENSATE PIPING
	DUCT-ATTACHED SMOKE DETECTOR
	WALL SWITCH
	ABOVE FINISHED FLOOR
	AIR HANDLING UNIT
	COOLING COIL
	CUBIC FEET PER MINUTE
	CONDENSING UNIT
	DUCT FURNACE
	EXHAUST AIR
	FAN-POWERED AIR BOX
	HEAT PUMP
	RETURN AIR
	ROOFING UNIT (PACKAGED)
	SUPPLY AIR
	STATIC PRESSURE
	DOOR UNDER EOT 3/4"
	DOOR LOUVER

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT	
METHODS OF COMPLIANCE	
PROPOSED <input checked="" type="checkbox"/>	ENERGY COST BUDGET <input type="checkbox"/>
THERMAL ZONE	
EXTERIOR DESIGN CONDITIONS	3A
WINDS PER BILL	18T
SUMMER DBY BILL	84T
COOLING DEGREE HOURS	3412
	1549
INTERIOR DESIGN CONDITIONS	
WINDS PER BILL	70 T
SUMMER DBY BILL	74T
RELATIVE HUMIDITY	50%
BUILDING HEATING LOAD	
SPACE OR ZONE	CALCULATED LOAD (BTU/H)
WOMEN'S TOILET	10,000 BTU/H
WOMEN'S TOILET	10,000 BTU/H
JANITOR	5,120 BTU/H
BUILDING COOLING LOAD	
SPACE OR ZONE	CALCULATED LOAD (BTU/H)
WOMEN'S TOILET	NOT APPLICABLE
WOMEN'S TOILET	NOT APPLICABLE
JANITOR	NOT APPLICABLE
MECHANICAL SPACING CONDITIONING SYSTEM	
DESCRIPTION OF UNIT	ELECTRIC SPACE HEATERS
HEATING EFFICIENCY	SEE SCHEDULE THIS SHEET
COOLING EFFICIENCY	SEE SCHEDULE THIS SHEET
HEAT OUTPUT OF UNIT	SEE SCHEDULE THIS SHEET
COOLING CAPACITY OF UNIT	SEE SCHEDULE THIS SHEET
BOILER/STEAM OUTPUT	NOT APPLICABLE
CHILLED	NOT APPLICABLE
TOTAL CHILLER OUTPUT	NOT APPLICABLE
LIST EQUIPMENT EFFICIENCIES	NOT APPLICABLE
EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS)	SEE SCHEDULE THIS SHEET
WATER VOLUMETRY	NUMBER OF PHASES
MINIMUM EFFICIENCY	MINIMUM EFFICIENCY
WATER TYPE	STANDARD WITH PACKAGED EQUIPMENT
NUMBER OF POLES	STANDARD WITH PACKAGED EQUIPMENT

MECHANICAL GENERAL NOTES

- DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR EXACT LOCATION OF DOORS, WINDOWS, CEILING CONFIGURATION, ETC.
- INSTALLATION OF ANY EQUIPMENT SHALL BE IN ACCORDANCE WITH APPROVED SHOP DRAWINGS. CONTRACTOR TO COORDINATE THE SHOP DRAWING INFORMATION WITH ALL OTHER TRADES. (EXAMPLE: ROOFING UNITS PHYSICAL SIZE AND HEIGHT MUST BE COORDINATED WITH STRUCTURAL SYSTEMS THROUGH GENERAL CONTRACTOR. Likewise, ALL ELECTRICAL CHARACTERISTICS WILL REQUIRE COORDINATION THROUGH GENERAL CONTRACTOR WITH ELECTRICAL CONTRACTORS.)
- ALL DUCTWORK SHALL BE SUPPORTED AS PER SMACNA STANDARDS.
- ALL PIPING AND OUTDOOR LOCATIONS SHALL BE COORDINATED WITH THE WORK UNDER OTHER TRADES. TO AVOID INTERFERENCE.
- ALL RECTANGULAR AND ROUND DUCTWORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTED IN ACCORDANCE WITH SMACNA STANDARDS. ALL SQUARE ELBOWS SHALL HAVE DOUBLE THICKNESS TURNING VANES.
- MECHANICAL CONTRACTOR SHALL BALANCE SYSTEM TO OWNER'S INDICATED ON PLANS AND PROVIDE ARCHITECT WITH COMPLETE BALANCE REPORT.
- NEW FLEXIBLE DUCT SHALL BE INSULATED THEREAFTER M-HE OR APPROVED EQUAL. MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE 4'-0".
- LOCATE ALL TEMPERATURE SETTING DEVICES AND SWITCHES 4'-0" ABOVE FINISHED FLOOR, OR PER LOCAL ADA REQUIREMENTS (OPTIONAL, EXCLUDED).
- ALL DUCTWORK SPECIFIED OR NOTED TO BE LINED SHALL BE LINED WITH ONE INCH THICK DUCT LINER HAVING NOT LESS THAN A "C" VALUE OF 0.22 AT 70 F. MEAN TEMPERATURE WITH ONE SIDE COVERED FROM AIR STREAM CORRESPONDING TO THE DUCT LINE MATERIALS STANDARD AHJ-101, LATEST 1975 OF THE NATIONAL INSULATION MANUFACTURERS ASSOCIATION. NOT APPLICABLE FOR EXHAUST.
- ALL DUCTWORK SPECIFIED OR NOTED TO BE LINED SHALL BE INSULATED IN SIZE TO ALLOW FOR LINER. DUCT DIMENSIONS SHOWN OR NOTED ON PLANS ARE INSIDE CLEAR.
- SPACE ABOVE CEILING TO BE USED AS RETURN AIR FLENUM WHERE DUCT IS NOT INDICATED ABOVE RETURN AIR GRILLES. DUCTS RETURNING AIR ABOVE CEILING SHALL BE OPEN END WITH BONED EDGES.
- ANY DEVICE REQUIRING A THERMOSTAT FOR CONTROL SHALL BE FURNISHED WITH A THERMOSTAT WHETHER INDICATED ON THE DRAWINGS OR NOT. IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO FURNISH ALL THERMOSTATS, CONTROLS, ETC.
- ALL OUTLETTER, PORTINGS OF SEAL RUBBER OR OTHER BUILDING COMPONENTS TO BE BY THE GENERAL CONTRACTOR.
- WHERE INDICATED, THERMOSTATS SHALL HAVE OPaque PLASTIC COATING GUARDS FURNISHED BY THERMOSTAT MANUFACTURER AS STOWAGE ACCESSORY (SIMILAR TO WHITE-ROVERS PLASTIC).
- THE TOPS OF ALL SUPPLY AND RETURN AIR DISTRIBUTION ON A DUCTED RETURNED SYSTEM SHALL BE INSULATED WITH 1-1/2" THICK DUCT INSULATION WITH VAPOR BARRIER.
- ALL PIPING, DUCTS, VENTS, ETC. EXTENDING THROUGH WALLS AND ROOF SHALL BE FLASHED AND COUNTERFLASHED IN A WEATHERPROOF MANNER.
- EXTEND ALL DRAIN LINES TO SPREADBLOCK OR AS INDICATED, SO ROLLED AS TO AVOID INTERFERENCE WITH PASSENGERS AND MAINTENANCE. DRAINS FROM AIR HANDLING UNITS SHALL BE TRAPPED. ALL DRAIN LINES SHALL BE INSULATED.
- ALL PIPING AND OUTDOOR EQUIPMENT SHALL BE RUN CONTINUOUSLY THROUGH FLOORS AND PARTITIONS.
- ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH THE SPECIFICATIONS AND FURTHER SUPPORTS OR HANGERS AS REQUIRED TO PREVENT THE WEIGHT OF PIPING BEING PLACED ON EQUIPMENT.
- ALL CONCRETE FLOORS UNDER MECHANICAL EQUIPMENT SHALL BE 4" THICK REINFORCED WITH #4 @ 12" ON CENTER BY MECHANICAL CONTRACTOR, UNLESS NOTED OTHERWISE. COORDINATE FND LOCATIONS WITH GENERAL CONTRACTOR TO VERIFY FND LOCATIONS.
- PROVIDE A DIELECTRIC FITTING BETWEEN FERROUS AND NON-FERROUS PIPING.
- FIRE DAMPERS SHALL BE INSTALLED WHERE SHOWN ON PLANS AND AT SLAB, WHERE DUCTS PASS THROUGH FLOORS.

FAN SCHEDULE

FAN EF-1 JANITOR GREENHECK MODEL CSP-B150 CEILING CABINET EXHAUST FAN DIRECT DRIVE 100 CFM @ 0.50T DP, 120 WATTS, 78 FPM, 120/16/14, 0.4 SONES, WITH: ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩
FAN EF-2 RESTROOMS (2 FANS) GREENHECK MODEL CSP-B150 CEILING CABINET EXHAUST FAN DIRECT DRIVE 100 CFM @ 0.50T DP, 120 WATTS, 78 FPM, 120/16/14, 0.4 SONES, WITH: ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩
ACCESSORIES: ① BACKDRAFT DAMPER ② OCCUPANCY SWITCH ③ VIBRATION ISOLATION ④ ALUMINUM GRILLE ⑤ OCCUPANCY SWITCH ⑥ SPEED CONTROLLER ⑦ R1-6A PITCHED ROOF CAP
APPROVED FAN EQUALS ARE: COOK AND PENNBARRY

LOUVER SCHEDULE

L-1 - ATTIC VENTILATION LOUVER RUSKIN MODEL ELF375 - 24" ROUND L-1 IS A DOWNFLOW LOUVER, EXTRUDED ALUMINUM CONSTRUCTION. PROVIDE LOUVER TO MATCH WALL CONSTRUCTION TYPE. 200 CFM, 0.50 SF, 400 FPM INLET VELOCITY, 0.027" PRESSURE DROP, 875 FPM WATER PENETRATION RESISTANT. PROVIDE GLASSER L-1 WITH: ① ② ③ ④
L-2 - MAKEUP AIR INTAKE LOUVER (EXHAUST MAKEUP) RUSKIN MODEL ELF375 - 24" ROUND L-2 IS A DOWNFLOW LOUVER, EXTRUDED ALUMINUM CONSTRUCTION. PROVIDE LOUVER TO MATCH WALL CONSTRUCTION TYPE. 200 CFM, 0.50 SF, 400 FPM INLET VELOCITY, 0.027" PRESSURE DROP, 875 FPM WATER PENETRATION RESISTANT. PROVIDE LOUVER L-2 WITH: ① ② ③ ④
ACCESSORIES: ① INSECT SCREEN ② KYNAR FINISH ③ METAL FLANGE ④ COLOR AS DIRECTED BY THE ARCHITECT

DIFFUSER SCHEDULE

SAC	SERVICE	CFM	NECK SIZE	FRAME TYPE	PATTERN	DAMPER	MATERIAL	FINISH	MFG & MODEL No.	TYPE	NOTES
①	SUPPLY	AS NOTED	AS NOTED	SURFACE	NA	YES	STEEL	NOTE 2	NAIUM MODEL 415V	SINGLE REFLECTION GRILLE	1.3.3

NOTES:

- DIFFUSER RESPONSES ON PLANS AS FOLLOWS:
- COLOR AS DIRECTED BY ARCHITECT.
- AIR VOLUME BALANCE AND CONTROL SHALL BE ACCOMPLISHED VIA DAMPERS IN THE BRANCH DUCTS, NOT DAMPERS AT THE GRILLES.

ALTERNATE BID

O.E. TO PROVIDE ALTERNATE BID FOR DUCTLESS MINI-SPLIT ADDITION. ADDITIONAL EQUIPMENT REQUIRED BELOW.

ASU-1 AND ASU-2 WALL CASSETTE UNIT (MITSUBISHI MODEL MSZ-GLOWN)

0.75 TON WALL CASSETTE UNIT, 360 CFM (4 SPEED), RATED COOLING=10,000 BTU/H @87/67F INDOOR AND 90T/70T OUTDOOR, RATED HEATING=10,000 BTU/H.

INDOOR UNIT: WALL MOUNTED CASSETTE UNIT, PROVIDE WITH WIRELESS WALL-MOUNT THERMOSTAT. POWER SUPPLY: 208/230V/1/PH, MCA=1, MCOF=10, INDOOR FAN FLA=0.76, INDOOR FAN WATTS=30, HEIGHT=22.0".

UP-1 OUTDOOR UNIT - (MITSUBISHI MODEL MZ2-2C20NA)

MULTI-SYSTEM 1.5 TON HEAT PUMP UNIT, 1,342 CFM (4 SPEED), RATED COOLING=18,000 BTU/H @87/67F INDOOR AND 90T/70T OUTDOOR, RATED HEATING=20,000 BTU/H, SEER=20.0, EER=12.7, HSPF=10.0, COP=3.8.3.

OUTDOOR UNIT: FND-MOUNTED UNIT, POWER SUPPLY: 208/230V/1/PH, SYSTEM MCA=17.2, SYSTEM MCOF=20, COMPRESSOR RLA=10.7, OUTDOOR FAN FLA=2.43, HEIGHT=128 LBS.

R=415A RETROFITABLE, 230 FOOT MAX PIPING LENGTH, 48 FOOT MAX PIPING HEIGHT.

ELECTRIC UNIT HEATER SCHEDULE

EH-1 WALL-MOUNTED FORCED AIR HEATER DANFORS MODEL LFK151, 1500 W, 120V/1A, SURFACE MOUNT, INTEGRAL THERMOSTAT-RESISTANT THERMOSTAT, FAN SPEED, DISCONNECT BY E.O.
EH-2 CEILING-MOUNTED FORCED AIR HEATER DANFORS MODEL EFM007, 3000 W, 240V/17A, 12.5 HAPS, RECESS MOUNT, ROUGH-IN BOX, INTEGRAL THERMOSTAT-RESISTANT THERMOSTAT, FAN DELAY, DISCONNECT SWITCH PROVIDED, PROVIDE CONTROL RELAY/TRANSFORMER AS REQUIRED.
APPROVED HEATER EQUALS ARE: MARKELL AND CHROMALOX

MECHANICAL DRAWING INDEX

W1	MECHANICAL HMC SCHEDULE AND NOTES
W2	MECHANICAL HMC PLANS AND DETAILS

PROJECT: WILSON STREET PARK
SHEET: MECHANICAL HMC SCHEDULES AND NOTES
DATE: 06/01/2021

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: [Signature]

City of Concord Parks and Recreation
Wilson Street Park
108 Wilson Street, Concord, NC 28026

citizen design
Architects + Planning + Staff
1000 S. Salisbury Ave.
Chapel Hill, NC 27515

ELECTRICAL SPECIFICATIONS

SECTION HEAD

ELECTRICAL SYSTEMS

- 1. PROJECT INCLUDES:
 - a. ELECTRICAL SYSTEMS FOR THE FOLLOWING APPLICATIONS: REFER TO INDIVIDUAL SPECIFICATION SECTIONS FOLLOWING FOR DETAILED REQUIREMENTS.
 - b. POWER AND DISTRIBUTION.
 - c. LIGHTING INCLUDING BUT NOT LIMITED TO: LIGHTING FIXTURES, LIGHTING CONTROLS, LIGHTING DIMMING, LIGHTING CONTROL SYSTEMS, LIGHTING CONTROL EQUIPMENT.
- 2. SYSTEMS, PRODUCTS, AND STANDARDS ARE LISTED IN ADDITION TO SPECIFICATION SECTIONS WHICH FOLLOW.
- 3. ALL MATERIALS, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE NEW UNLESS NOTED BY AN APPROVED THIRD PARTY TESTING AGENCY APPROVED BY THE OWNER.
- 4. GENERAL PROJECT REQUIREMENTS:
 - a. PROVIDE ALL WORK AND MATERIALS FOR THE INSTALLATION OF COMPLETE WIRING SYSTEMS AS SPECIFIED HEREIN AND SHOWN ON THE DRAWINGS.
 - b. ALL ELECTRICAL PERMITS AND INSPECTION FEES SHALL BE OBTAINED AND PAID FOR BY THE ELECTRICAL CONTRACTOR.
 - c. ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR EFFECTIVE THE DATE THE PROJECT IS ACCEPTED BY THE OWNER.
 - d. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE MOST RECENT ADOPTED VERSION OF THE N.E.C.A., NATIONAL ELECTRICAL CODE (N.E.C.), AND ALL APPLICABLE STATE AND LOCAL CODES.
 - e. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CUTTING AND PROTECTING FOR INSTALLATION OF ELECTRICAL WORK AND REPAIR ANY DAMAGE DONE.
 - f. SHOP DRAWINGS AND CATALOG DATA SHALL BE SUBMITTED FOR ALL NEW LIGHTING FIXTURES, METER BUSES, PANELBOARDS, TRANSFORMERS, DISCONNECTS, SWITCHES, SWITCHES, WIRING DEVICES AND ACCESSORIES. SHOP DRAWINGS SHALL BE SUBMITTED AS SPECIFIED IN ARCHITECTURAL SPECIFICATIONS, OR AT A MINIMUM, PROVIDE AN ELECTRONIC "TOP" FILE OF ALL SUBMITTALS. MATERIALS SHALL BE APPROVED BY THE OWNER.
 - g. PROVIDE DIMENSIONED PHENOLIC IDENTIFIERS FOR ALL NEW PANELBOARDS, METER SHIELDS AND DISCONNECT SWITCHES. LABELS SHALL BE WHITE LETTERS ON BLACK FIELD. IDENTIFIERS SHALL INCLUDE EQUIPMENT NAME, VOLTAGE AND CIRCUIT/FEEDER SERVICING EQUIPMENT (WHERE APPLICABLE).
 - h. COORDINATE POWER SERVICE LOCATION AND REQUIREMENTS WITH LOCAL POWER COMPANY. MAKE PROVISIONS FOR METERING AS REQUIRED BY POWER COMPANY. IF REQUIRED, CONTRACTOR SHALL PROVIDE AND INSTALL CONCRETE SERVICE TRANSFORMER AND PER POWER COMPANY REQUIREMENTS. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL REQUIREMENTS WITH THE LOCAL POWER COMPANY PRIOR TO SUBMISSION OF BID. ANY ADDITIONAL COSTS REQUIRED BY THE POWER COMPANY SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR AND SHALL BE INCLUDED IN THE BID.
 - i. ELECTRICAL CONTRACTOR SHALL TEST ALL WIRING FOR CONTINUITY AND GROUNDING PRIOR TO WIRING BEING ENERGIZED. FAULTY WIRING SHALL BE REPAIRED.
- 5. ELECTRICAL CONTRACTOR SHALL CONTACT ALL HVAC, PLUMBING, AND OTHER CONTRACTORS OR OWNER FURNISHED EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS (UNLESS OTHERWISE NOTED). CONTRACTOR SHALL PROVIDE AND INSTALL CONCRETE SERVICE TRANSFORMER AND PER POWER COMPANY REQUIREMENTS. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL REQUIREMENTS WITH THE LOCAL POWER COMPANY PRIOR TO SUBMISSION OF BID. ANY ADDITIONAL COSTS REQUIRED BY THE POWER COMPANY SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR AND SHALL BE INCLUDED IN THE BID.
- 6. EACH BIDDER SHALL NOT BE OBLIGED TO BIDDING TO FURNISH UNLESS/WHENEVER WITH EXISTING CONDITIONS. FAILURE TO VISIT SITE SHALL NOT EXCUSE CONTRACTOR FROM PERFORMING REQUIRED WORK. BID SHALL BE AN ACCEPTABLE REASON FOR REQUESTING REVISIONS TO THE CONTRACT.
- 7. THIS PROJECT INCLUDES SOME WORK ON EXISTING ELECTRICAL FACILITIES, EXISTING FEEDER BRANCH CIRCUITS, COMMUNICATIONS, RECEPTS, ETC. WHICH ARE IDENTIFIED BY THIS PROJECT SHALL BE RE-REQUIRED AND/OR RE-FED FROM A NEW SOURCE AS REQUIRED TO MAINTAIN THEM IN FULL AND TOLERANT SERVICE.
- 8. THIS PROJECT INCLUDES SOME EXISTING WORK. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER REMOVAL OF WIRING, METERING, FIXTURES, QUOTES, ETC. AS NECESSARY TO ACCOMMODATE THE EXISTING WORK.
- 9. IT IS THE RESPONSIBILITY OF ALL CONTRACTORS AND TRADES TO COORDINATE THE INSTALLATION OF THEIR WORK WITH THE INSTALLATION OF WORK BY ALL OTHER CONTRACTORS AND TRADES. THE REQUIREMENTS OF THESE DRAWINGS, GENERAL REQUIREMENTS AND ALL ITEMS OF THE CONTRACT DOCUMENTS ARE EQUALLY BINDING ON ALL CONTRACTORS AND TRADES. EACH CONTRACTOR IS REQUIRED TO MAINTAIN FULL SETS OF THE CONTRACT DOCUMENTS FOR HIS EMPLOYEES USE. ON THE PROJECT, TO ASSURE THAT ALL WORK IS PROPERLY COORDINATED AND NOTIFIED WITH THE WORK OF OTHER CONTRACTORS AND TRADES.
- 10. WHENEVER THERE ARE DISCREPANCIES BETWEEN DRAWINGS, OR BETWEEN THE DRAWINGS AND SPECIFICATIONS, OR CONFLICTS WITHIN THE SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY BY CALLING THE ARCHITECT'S ATTENTION IN WRITING TO CLARIFY OR AMEND. THE CONTRACTOR SHALL MAKE HIS BID UPON PROVIDING THE BETTER QUALITY OR GREATER QUANTITY OF WORK OR MATERIALS ORDERED FOR. SHALL SUBMIT A WRITTEN STATEMENT WITH HIS PROPOSAL, NOTING SUCH DISCREPANCIES AND SHALL SHOW AND INSTALL SUCH BETTER QUALITY OR GREATER QUANTITY UNLESS OTHERWISE ORDERED IN WRITING.
- 11. CONTRACTOR SHALL ASSUME FULL LIABILITY FOR ANY WORK, EQUIPMENT AND MATERIALS PURCHASED AND/OR INSTALLED THAT ARE IN DISCREPANCY, IF IT IS NOT FIRST BROUGHT TO THE ATTENTION OF THE ENGINEER, IN WRITING, FOR CLARIFICATION. IF NOT BROUGHT TO THE ENGINEER'S ATTENTION, CONTRACTOR SHALL PAY FOR ANY EQUIPMENT, MATERIALS AND WORK THAT MUST BE REPLACED.

SECTION HEAD

ELECTRICAL DEVIATION

- 1. THE EXTENT OF THE ELECTRICAL DEVIATION WORK IS INDICATED ON THE ELECTRICAL AND ARCHITECTURAL DRAWINGS AND SPECIFIED HEREIN.
- 2. WHILE CONSIDERING THE EXISTING ELECTRICAL SYSTEM, ALL NECESSARY MODIFICATIONS TO THE PORTIONS OF THE EXISTING SYSTEM, WHICH ARE TO REMAIN, SHALL BE MADE SO THAT THE EXISTING SYSTEM CONTINUES TO FUNCTION AS PROVIDED, EVEN AFTER CONSTRUCTION AND ASSOCIATED NEW CONSTRUCTION.
- 3. ELECTRICAL DEVIATION, MODIFICATION OF EXISTING ELECTRICAL AND ANY CUTTING AND PROTECTING FOR THE INSTALLATION OF THIS NEW ELECTRICAL WORK IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- 4. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN WORK WITH THE EXISTING BUILDING AND WITH THE WORK OF ALL OTHER TRADES AND INCLUDE ALL WORK NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THE DEVIATION.
- 5. IT SHALL BE UNDERSTOOD THAT FIELD CONDITIONS MAY BE ENCOUNTERED DURING THE DEVIATION OF THIS CONTRACT, WHICH WILL REQUIRE EXTENSION OR MODIFICATION OF EXISTING SYSTEMS OR EQUIPMENT WHICH ARE NOT SPECIFICALLY SHOWN ON THE DRAWINGS, BUT WHICH ARE REQUIRED TO MEET THE SPECIFIED MEANT THAT THE BUILDING CONTINUES TO FUNCTION UNIMPACTED BY THE DEVIATION AND ASSOCIATED NEW CONSTRUCTION. THIS CONTRACT SHALL INCLUDE SUCH WORK AS WOULD NORMALLY BE EXPECTED IN AN EXISTING BUILDING OF THIS AGE AND TYPE.
- 6. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR, REGARDING CONVICTION OF THE EXISTING ELECTRICAL SYSTEMS, AS IS NECESSARY, SO THAT THE DEVIATION OF THE GENERAL CONTRACTOR SHALL NOT DAMAGE THOSE PORTIONS OF THE ELECTRICAL SYSTEMS THAT ARE TO REMAIN IN SERVICE, ARE TO BE RE-USED, OR ARE TO BECOME THE PROPERTY OF THE OWNER.
- 7. ALL SAVABLE MATERIALS RESULTING FROM DEMOLITION SHALL REMAIN THE PROPERTY OF THE OWNER. THE OWNER SHALL DETERMINE WHAT IS SAVABLE. SAVABLE ITEMS SHALL BE TURNED OVER TO THE OWNER. NON-SAVABLE ITEMS SHALL BE PROPERLY DISPOSED OF BY THE ELECTRICAL CONTRACTOR.
- 8. EQUIPMENT OR MATERIALS WHICH ARE TO BE RE-USED OR TURNED OVER TO THE OWNER SHALL BE CAREFULLY REMOVED AND STORED IN A CLEAN, DRY AREA. UNLESS THE CONTRACTOR ENCOUNTERS SUCH EQUIPMENT WHICH IS NOT IN SUFFICIENT CONDITION FOR RE-USE AND NOT IN WORKING ORDER, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY.
- 9. ELECTRICAL CONTRACTOR SHALL DISCONNECT ELECTRICAL SYSTEMS TO ALL EQUIPMENT REQUIRING REMOVAL, AND SHALL DISCONNECT AND REMOVE ALL WIRING AND TELEPHONE CABLES FROM PARTITIONS TO BE DEMOLISHED. CABLES SHALL BE REMOVED BACK TO THE POINT WHERE IT WAS ORIGINALLY IN THE CONNECTION OF THE EXISTING. WIRE AND CABLE SHALL BE REMOVED BACK TO THE FIRST OUTLET BOX, PANELBOARD, CIRCUIT OR TERMINATION POINT WHICH IS TO REMAIN.

- 10. WHERE NEW WIRE OR FLOOR FINISHES CONFLICT WITH EXISTING ELECTRICAL WORK THAT IS TO REMAIN, RELOCATE THE ELECTRICAL WORK INVOLVED OR PROVIDE BOX EXTENSIONS OF SMALL DEVICES AND REINSTALL ON THE NEW FINISH.
- 11. REMOVE ANY APPLICABLE CONDUITS, WIRING AND BOXES ENCOUNTERED WITHIN THE PROJECT EXTENTS.

SECTION HEAD

WIRING AND DEVICES

- A. PROJECT INCLUDES:
 - 1. ELECTRICAL CONTROL, LIGHTING, SURFACE RECEPTS, BOXES, AND CABINETS FOR ELECTRICAL POWER AND SIGNAL DISTRIBUTION.
- B. PRODUCTS:
 - 1. WIRING METHODS:
 - a. CONCEALED WIRING: WIRING SHALL BE CONCEALED ELECTRICAL METAL TUBING FOR SIZES 1/2" THROUGH 4", INTERMEDIATE STEEL CONDUIT FOR SIZES LARGER THAN 4".
 - b. EXPOSED WIRING OR EXPOSED WIRING:
 - i. CONCEALED OUTDOOR WIRING: INTERMEDIATE STEEL CONDUIT OF SCHEDULE 40 OR 40 PVC.
 - ii. INTERMEDIATE WIRING: SCHEDULE 40 OR 40 PVC.
 - iii. UNDERGROUND WIRING: SCHEDULE 40 OR 40 PVC.
 - iv. CONDUIT TO EQUIPMENT: FLEXIBLE METAL CONDUIT, LOCK-TIGHT AT EXTENSION OR IN DAMP LOCATIONS.
 - 2. FITTINGS FOR ELECTRICAL METAL TUBING SHALL BE HEXAGONAL, GALVANIZED STEEL, GLAND TYPE, COMPRESSION TYPE AND THREADED.
 - 3. ACCESSORY MATERIALS:
 - a. CONDUIT FITTINGS: SHALL COMPLY WITH N.E.C. REQUIREMENTS.
 - b. SURFACE MOUNTED METALLIC "GALVANIZED STEEL" WITH SHIP-IN CONDUITS AND WIRE DRAPE FRAMES. SURFACE MOUNTING MAY ONLY BE USED WITH PRIOR WRITTEN APPROVAL FROM OWNER, ARCHITECT AND ENGINEER.
 - 4. BOXES AND FITTINGS:
 - a. CONDUIT BOXES: GAGE GALVANIZED SHEET METAL, NEMA 1 - REPAIRS, NEMA 3B - OUTDOORS OR IN DAMP LOCATIONS, NEMA 3C - OUTDOORS OR IN DAMP LOCATIONS, NEMA 3R - OUTDOORS OR IN DAMP LOCATIONS, NEMA 4 - OUTDOORS OR IN DAMP LOCATIONS, NEMA 5 - OUTDOORS OR IN DAMP LOCATIONS, NEMA 6 - OUTDOORS OR IN DAMP LOCATIONS, NEMA 6P - OUTDOORS OR IN DAMP LOCATIONS, NEMA 7 - OUTDOORS OR IN DAMP LOCATIONS, NEMA 7B - OUTDOORS OR IN DAMP LOCATIONS, NEMA 7C - OUTDOORS OR IN DAMP LOCATIONS, NEMA 7D - OUTDOORS OR IN DAMP LOCATIONS, NEMA 7E - OUTDOORS OR IN DAMP LOCATIONS, NEMA 7F - OUTDOORS OR IN DAMP LOCATIONS, NEMA 7G - OUTDOORS OR IN DAMP LOCATIONS, NEMA 7H - OUTDOORS OR IN DAMP LOCATIONS, NEMA 7I - OUTDOORS OR IN DAMP LOCATIONS, NEMA 7J - OUTDOORS OR IN DAMP LOCATIONS, NEMA 7K - OUTDOORS OR IN DAMP LOCATIONS, NEMA 7L - OUTDOORS OR IN DAMP LOCATIONS, NEMA 7M - OUTDOORS OR IN DAMP LOCATIONS, NEMA 7N - OUTDOORS OR IN DAMP LOCATIONS, NEMA 7O - OUTDOORS OR IN DAMP LOCATIONS, NEMA 7P - OUTDOORS OR IN DAMP LOCATIONS, NEMA 7Q - OUTDOORS OR IN DAMP LOCATIONS, NEMA 7R - OUTDOORS OR IN DAMP LOCATIONS, NEMA 7S - OUTDOORS OR IN DAMP LOCATIONS, NEMA 7T - OUTDOORS OR IN DAMP LOCATIONS, NEMA 7U - OUTDOORS OR IN DAMP LOCATIONS, NEMA 7V - OUTDOORS OR IN DAMP LOCATIONS, NEMA 7W - OUTDOORS OR IN DAMP LOCATIONS, NEMA 7X - OUTDOORS OR IN DAMP LOCATIONS, NEMA 7Y - OUTDOORS OR IN DAMP LOCATIONS, NEMA 7Z - OUTDOORS OR IN DAMP LOCATIONS.
- C. DEVIATION:
 - 1. PROPERTY SUPPORT ALL CONDUITS WITH SPACES AND CLAMPS FOR THE MOST RECENT ADOPTED EDITIONS OF THE N.E.C. AND STATE BUILDING CODE. RUN ALL CONDUITS PARALLEL TO PERPENDICULAR TO BUILDING WALLS/SURFACES.
 - 2. MINIMUM CONDUIT SIZE ABOVE SLAB/SURFACE SHALL BE 1/2". MINIMUM CONDUIT SIZE ON OR BELOW FLOOR SLAB SHALL BE 3/4".
 - 3. WIRING PENETRATIONS THROUGH FLOOR SLABS AND PRE-CAST WALLS SHALL BE FILLED WITH MORTAR/PLASTER, NON-SHRINK GROUT OR MATERIALS THAT PROVIDE THE PROTECTION OF FIRE, WATER, AND GASES. ROOF PENETRATIONS SHALL BE WITHIN THE EXISTING CURB LINE.
 - 4. CONDUITS INSTALLED UNDERGROUND OR IN CONDUIT SHALL HAVE JOINTS MADE WATER-TIGHT BY USING A HYDRO-FLUOROCARBON GEL. METALLIC UNDERGROUND CONDUITS SHALL BE THOROUGHLY COATED WITH TWO COATS OF ASPHALTUM OR BITUMASTIC. CONDUIT SEALS SHALL BE PROVIDED AT HANDHOUS LOCATIONS AS REQUIRED BY THE N.E.C.
 - 5. PROVIDE PLUMBING IN ALL DAMP LOCATIONS.
 - 6. FLEXIBLE METAL CONDUIT SHALL NOT BE USED IN EXPOSED AREAS.

SECTION HEAD

WIRING AND DEVICES

- A. PROJECT INCLUDES:
 - 1. WIRING, CABLES, AND CONDUITS FOR POWER, LIGHTING, SIGNAL, CONTROL, AND RELATED SYSTEMS RATED 60 VOLTS AND LESS.
- B. PRODUCTS:
 - 1. WIRE COMPONENTS:
 - a. CONDUITS FOR POWER AND LIGHTING CIRCUITS: SOLID CONDUITS FOR SIZES #14 AND THROUGH #6 AWG, STRANDED CONDUITS FOR #6 AWG AND LARGER.
 - b. CONDUIT MATERIAL: COPPER.
 - c. ISOLATION: THIN-WALL.
 - d. JOINTS: FINGER-APPLIED MOUNT OR PVC, COLOR CODED "BLACK/WHITE" FOR "N" AND "P" PHASES, NEUTRAL, RESPECTIVELY FOR 120/240-VOLT SYSTEM BRANCH CIRCUIT CONDUITS; SHALL NOT BE SMALLER THAN #12 AWG. CONDUIT WIRING MAY BE #14 AWG.
 - e. NEUTRAL CONDUITS: #10 AWG AND LARGER BRANCH CIRCUITS.
 - f. "N" TYPE CABLE WITH NEUTRAL, GREEN, INSULATED GROUND CONDUCTOR MAY ONLY BE UTILIZED TO SERVE BRANCH CIRCUITS #10 AWG OR SMALLER.
 - g. WIRING TO LIGHTING FIXTURES SHALL BE AS REQUIRED BY ALL LABEL.
 - 2. CABLES:
 - a. TERMINAL CABLE FOR FLOORING POINT LOADS TO QUALITY AND EQUIPMENT: UL TYPE 5.
 - b. CONTROL/SIGNAL TRANSMISSION MEDIA: THIN-WALL TYPE 5.
 - 3. CONDUITS: UL LISTED SOLID/STAINLESS METAL CONDUITS WITH APPROPRIATE TEMPERATURE RATINGS.

SECTION HEAD

WIRING AND DEVICES

- A. PROJECT INCLUDES:
 - 1. WIRING DEVICES FOR ELECTRICAL SERVICE.
- B. PRODUCTS:
 - 1. WIRING DEVICES AND COMPONENTS:
 - a. RECEPTS: SINGLE-POLE (NEMA 1-15P, 20 AMPERE, APPROVED EQUIVALENT).
 - b. GROUND-FULL INTERFERER (GFI) RECEPTS: FIELD-TURN TYPE GROUND-FULL CIRCUIT INTERRUPTER WITH INTERNAL GROUND RECEPTS (NEMA 1-15P, 20 AMPERE, APPROVED EQUIVALENT).
 - c. DAMP LOCATIONS: SINGLE-POLE, 20 AMPERE (NEMA 1-15P, 20 AMPERE, APPROVED EQUIVALENT).
 - d. WALL PLATES: SINGLE AND COMBINATION TYPES, #302 BRUSHED STAINLESS STEEL, UNLESS OTHERWISE NOTED ON DRAWINGS.
 - e. COLOR OF ALL DEVICES TO BE OAK.
 - 2. DISCONNECTS:
 - a. DISCONNECTS SHALL BE 30-AMP.
 - b. DISCONNECT DEVICES SHALL NOT BE INSTALLED BACK-TO-BACK IN WALLS.
 - c. WEATHERPROOF COVERS SHALL PROTECT THE DISCONNECT WHEN IN USE, EQUIVALENT TO LISTED BAYONET COVERS SHALL BE EXTRA DEEP, METALLIC WITH GLETT MOUNTED IN HORIZONTAL ORIENTATION.
 - 3. REMOVE ALL QUILTS (INCLUDING TELEPHONE) WITH APPROPRIATE STAINLESS STEEL COVERSPLATES.

SECTION HEAD

WIRING AND DEVICES

- A. PROJECT MAY INCLUDE:
 - 1. ELECTRICAL SERVICE AND DISTRIBUTION INCLUDING SERVICE ENTRANCE, GROUNDING, PANELBOARDS, OVERCURRENT PROTECTIVE DEVICES, MOTOR CONTROLS AND DISCONNECT SWITCHES.
- B. PRODUCTS:
 - 1. GROUNDING:
 - a. GROUNDING EQUIPMENT: COPPER CONDUCTORS, N.E.C. APPROVED CONNECTORS.
 - b. GROUNDING ELECTRODES: COPPER-CAD CATHODE GALVANIZED STEEL.
 - c. SERVICE GROUNDING: SHALL COMPLY WITH N.E.C. ARTICLE 250.
 - d. SERVICE GROUNDING: SHALL BE MEASURED, AND SHALL BE 8 OHMS OR LESS, IF UPON MEASUREMENT, THE SERVICE GROUNDING SYSTEM EXCEEDS THIS VALUE, AN ADDITIONAL GROUND ROD SHALL BE INSTALLED TO REDUCE RESISTANCE TO 5 OHMS OR LESS. NOTIFY ENGINEER OF FINAL SERVICE GROUND MEASUREMENT.

- 2. PANELBOARDS:
 - a. PANELBOARDS: WITH OVERCURRENT PROTECTIVE DEVICES, DEAD-FRONT SAFETY ENCLOSURE SUITABLE FOR USE 120V WIRE, MINIMUM WITH A WIRING CLOSET AT TOP, SIDE, AND BOTTOM, COPPER BUS, METALLIC TYPE WIRING AND NEUTRAL LOGS.
 - b. PANELBOARD TYPE: LIGHTING AND POWER BRANCH CIRCUIT PANELBOARDS, BOTH ON CIRCUIT BREAKERS.
 - c. SERIES WIRING IS NOT ALLOWED FOR ALL NEW PANELBOARDS, CIRCUIT BREAKERS AND DEVICES.
 - d. ACCEPTABLE MANUFACTURERS: SQUARE D, SENSATA, GE, OR CUTLER-HAMMER.
- 3. DISCONNECT SWITCHES:
 - a. 15-AMP, 1-POLE.
 - b. NEMA 1 ENCLOSURE - REPAIRS, NEMA 3B ENCLOSURE - OUTDOORS AND WET AREAS.
 - c. DISCONNECTS SHALL HAVE REACTION-TIME FUSE CAPS.
 - d. ALL DISCONNECTS SHALL BE INSTALLED IN PANELS AND SHALL HAVE A MECHANICAL INTERLOCK TO PREVENT THE DOOR FROM BEING OPENED WITHOUT OPENING THE INTERLOCK. THE INTERLOCK INTERLOCK SHALL ALSO PREVENT ACTUATING THE SWITCH WHEN THE DOOR IS OPEN. THE MECHANICAL INTERLOCK SHALL BE SE-TESTABLE BY A SPECIAL TOOL, AND SHALL BE UL LISTED AS PART OF THE DISCONNECT.
 - e. ACCEPTABLE MANUFACTURERS: SQUARE D, SENSATA, GE, OR CUTLER-HAMMER.
- 4. OVERCURRENT PROTECTIVE DEVICES:
 - a. OVERCURRENT PROTECTIVE DEVICES: INSTALLED TO PANELBOARDS OR SWITCHBOARDS.
 - b. FUSIBLE SWITCHES: WIRING AS INDICATED ON DRAWINGS AND SUITABLE FOR USE.
 - c. INSTALLED TO EQUIPMENT: FLEXIBLE METAL CONDUIT, LOCK-TIGHT AT EXTENSION OR IN DAMP LOCATIONS.
 - d. ACCEPTABLE MANUFACTURERS: SQUARE D, SENSATA, GE, OR CUTLER-HAMMER.
- 5. FUSES:
 - a. FUSES INSTALLED ON DRAWINGS.
 - b. CLASS B-5, THE ONLY CLASS B FUSES PERMITTED.
 - c. A SET OF 3 CLASS FUSES OF EACH SIZE AND THE SHALL BE FURNISHED TO THE OWNER.
 - d. ACCEPTABLE MANUFACTURERS: BOGARD, GOSWAMI, COLLINS LIMITED TO FULL FUSE.

- C. DEVIATION:
 - 1. ALL MULTI-CIRCUIT HOMERUNS SHALL BE PROTECTED WITH A MULTI-POLE, SIMULTANEOUS-Trip CIRCUIT BREAKER PER A.I.C.C. 210-42.
 - 2. ALL TERMINATIONS ON ELECTRICAL GEAR/EQUIPMENT (i.e. PANELBOARDS, DISCONNECT SWITCHES, ETC.) SHALL HAVE DUAL RATED 60-DEGREE / 75-DEGREE LOGS/TERMINALS.

SECTION HEAD

FIXTURES AND EQUIPMENT

- A. PROJECT INCLUDES:
 - 1. INTERIOR AND EXTERIOR LIGHTING FIXTURES, LAMPS, BALLASTS, EMERGENCY LIGHTING UNITS, EXIT SIGNS AND ACCESSORIES.
- B. PRODUCTS:
 - 1. INTERIOR AND EXTERIOR LIGHTING FIXTURES, LAMPS, BALLASTS, EMERGENCY LIGHTING UNITS, EXIT SIGNS AND ACCESSORIES:
 - a. INTERIOR LIGHTING FIXTURES: BALLASTS, OR OTHER LABELLED, IN 50% ELECTRONIC HIGH-FREQUENCY, NO LESS THAN 80% OF TOTAL.
 - b. HIGH-FREQUENCY ELECTRONIC BALLASTS: BALLASTS, MUST HAVE QUIETEST SOUND RATING POSSIBLE.
 - c. EXIT SIGNS: LED, SELF-POWERED IN-CANON WITHIN THE UNIT.
 - d. EMERGENCY LIGHTING UNITS: INSTALLED IN-CANON WITHIN THE UNIT.
 - e. EXIT SIGNS: LED, SELF-POWERED IN-CANON WITHIN THE UNIT.
 - f. EXIT SIGNS: LED, SELF-POWERED IN-CANON WITHIN THE UNIT.
 - g. LED LAMP SHALL BE MINIMUM OF 80,000 HOURS IN INTERIOR LIGHT FIXTURES AND 5000 HOURS IN EXTERIOR LIGHT FIXTURES, UNLESS NOTED OTHERWISE ON LIGHT FIXTURE SCHEDULE.
 - 2. LOW-VOLT FIXTURES SHALL BE SUSPENDED FROM BUILDING STRUCTURE WITH MINIMUM OF TWO WIRES AT OPPOSITE CORNERS. FIXTURES SHALL ALSO BE ATTACHED TO GRID SYSTEM WITH EMPHASIS ON QUIET, DO NOT SUPPORT FIXTURES FROM CEILING GRID.
 - 3. SEE ARCHITECTURAL "REFLECTED CEILING PLAN" OR ELECTRICAL LIGHTING PLAN FOR EXACT LOCATIONS OF ALL LIGHT FIXTURES.
 - 4. COORDINATE LIGHT FIXTURE MOUNTING METHODS WITH ARCHITECTURAL FINISHES.
 - 5. NO SINGLE-LAMP BALLASTS SHALL BE USED EXCEPT WHERE THE BALLASTS ARE ELECTRONIC HIGH-FREQUENCY TYPE, FIXTURES IS ON AN EMERGENCY CIRCUIT, OR WHERE THERE IS NO AVAILABLE FIXTURE TO THIS WITH, THOUGH WIRING SHALL BE USED TO AVOID THE USE OF SINGLE-LAMP BALLASTS.
 - 6. PROVIDE INTERNAL OR EXTERNAL DISCONNECT MEANS FOR EACH FLUORESCENT LUMINAIRE THAT UTILIZES DOUBLE-ENDED LAMPS AND CONTAIN BALLASTS) THAT CAN BE SERVICED IN PLACE TO COMPLY WITH N.E.C.
 - 7. ANALOG INSTRUMENTS OVER ON PLANS OR A DISCONNECTS IDENTIFY MINIMUM QUALITY AND PERFORMANCE REQUIRED. APPROVED EQUIVALENT EQUIPMENT BY OTHER MANUFACTURERS IS ACCEPTABLE.

SECTION HEAD

FIXTURES AND EQUIPMENT

- A. PROJECT INCLUDES:
 - 1. LIGHTING CONTROL EQUIPMENT:
 - a. PROGRAMMABLE LIGHTING CONTROL SYSTEM.
- B. PRODUCTS:
 - 1. LIGHTING CONTROL EQUIPMENT COMPONENTS:
 - a. CONTROLLER AND RELAYS: ELECTRICALLY OPERATED AND MECHANICALLY-HELD DEVICES, PROVIDE MECHANICALLY-HELD CONTACTS WITH SPST, PLS, RELAY.
 - b. THE SWITCHES: 120V-240V, 1-POLE, 20 AMPERE, APPROVED EQUIVALENT, SHALL BE USED FOR RELAY OR CONTACTOR CONTROL. THE SWITCHES SHALL MINIMUM PROGRAMMING FOR A MINIMUM OF 10% UPON LOSS OF POWER.
 - c. SENSORS: SOLID-STATE TYPE PHOTOELECTRIC RELAYS, SOLID STATE WITH SPST, OR CONTACTOR FOR RELAY OR CONTACTOR CONTROL, WITH THE OPEN TO PROVIDE FAULT OPERATION.

SECTION HEAD

FIXTURES AND EQUIPMENT

- 1. ELECTRICAL SPECIFICATIONS
- 2. ELECTRICAL DRAWINGS, NOTES AND SCHEDULES
- 3. ELECTRICAL FLOOR PLAN, PANEL SCHEDULE AND POWER Riser

ELECTRICAL DRAWING INDEX	
E1	ELECTRICAL SPECIFICATIONS
E2	ELECTRICAL DRAWINGS, NOTES AND SCHEDULES
E3	ELECTRICAL FLOOR PLAN, PANEL SCHEDULE AND POWER Riser



DATE: 06/11/2021
NAME:
ELECTRICAL SPECIFICATIONS

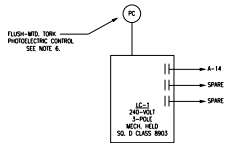
SHEET:
E1

City of Concord Parks and Recreation
Wilson Street Park
105 Wilson Street, Concord, NC 28026

citizen design
ARCHITECTURE & PLANNING

ELECTRICAL SYMBOL SCHEDULE

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
—	CONDUIT RUN CONCEALED IN CEILING OR IN WALL.	S	SINGLE POLE, 120/277 VOLT, 20 AMP, RECESSED WALL SWITCH WITH PLATE, MOUNT 48" A.F.F. TO CENTER.
—	CONDUIT RUN CONCEALED IN FLOOR OR BELOW SLAB/GRADE.	5x	SAME AS SINGLE-POLE SWITCH ABOVE EXCEPT WITH KEYSWITCH
—	CONDUIT RUN EXPOSED ON SURFACE.	5xc	OCCUPANCY SENSOR WALL SWITCH, 120/277V-20A, 1000MA, RECESSED WALL-MOUNTED SENSOR WITH COVERPLATE, DUAL TECHNOLOGY, PROVIDES INFRARED/ULTRASONIC TECHNOLOGY, AUTOMATIC ON, 30-SEC TO 30-MIN TIME DELAY ADJUSTMENT TO TURN LIGHTS OFF, COLOR TO MATCH EXISTING BUILDING FINISHING DEVICES, HUBBELL (A81277), OR APPROVED EQUIVALENT BY LETTER OR MAIL-SHIPMENT.
○	CIRCUIT HOME RUN, NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS.	◇	2 CIRCUIT, CEILING-MOUNTED OCCUPANCY SENSOR, LINE-VOLTAGE, 2000 SQ FT, SEM-RECESSED SENSOR WITH COVERPLATE, DUAL TECHNOLOGY PROVIDES INFRARED/ULTRASONIC TECHNOLOGY, AUTOMATIC ON, 30-SEC TO 30-MIN TIME DELAY ADJUSTMENT TO TURN LIGHTS OFF, WHITE COLOR, HUBBELL (RVT0200), OR APPROVED EQUIVALENT BY LETTER OR MAIL-SHIPMENT.
■	1500WVAULT DISTRIBUTION OR BRANCH CIRCUIT PANELBOARD.	□	CEILING OR WALL MOUNTED EMERGENCY BATTERY PACK, SEE LIGHT FIXTURE SCHEDULE.
○	FLUSH OR SURFACE-MOUNTED JUNCTION BOX.	●	LED STRIP LIGHT, LETTER INDICATES TYPE, SEE LIGHT FIXTURE SCHEDULE.
○	DUPLEX, GROUNDING TYPE, 120 VOLT, 20 AMP, RECEPTACLE WITH COVERPLATE, PROVIDE #12 GREEN GROUND JUMPER, MOUNT 18" A.F.F. TO CENTER UNLESS OTHERWISE SHOWN.	●	LED LIGHTING WITH EMERGENCY BATTERY BACKUP, CEILING OR WALL MOUNTED RESPECTIVELY, LETTER INDICATES TYPE, SEE LIGHT FIXTURE SCHEDULE.
○	SAME AS DUPLEX RECEPTACLE ABOVE EXCEPT MOUNTED ABOVE COUNTERTOP BACKPLASH, OR AT 48" A.F.F. TO CENTER INSIDE TRADE IS NO ASSIGNED DESIGNATION.	○	LED WALL MOUNTED CULINDER FIXTURE, LETTER INDICATES TYPE, SEE LIGHT FIXTURE SCHEDULE.
○	SAME AS DUPLEX RECEPTACLE ABOVE EXCEPT MOUNTED IN HEAVY DUTY WEATHERPROOF ENCLOSURE WITH METAL COVER.	⊗	EXIT SIGN WITH BATTERY (CONNECTED TO EMERGENCY CIRCUIT BACKED-UP BY GENERATOR), NUMBER OF FACES AND ARROWS AS INDICATED ON DRAWING, LETTERS INDICATE TYPE, SEE LIGHT FIXTURE SCHEDULE.
○	SAME AS DUPLEX RECEPTACLE ABOVE EXCEPT GROUND-Fault INTERRUPTING TYPE.		
○	OTI TYPE DUPLEX RECEPTACLE WITH COVERPLATE TO SERVE ELECT. HEAT COILS, RECEPTACLE TO BE MOUNTED WITHIN COOLER CABINET, COORD. LOCATION WITH PLUMB, CONTR. PRIOR TO INSTALL.		
○	NON-FUSES DISCONNECT SWITCH, SUBSCRIPT INDICATES AMPERAGE, NUMBER OF POLES, AND AMPERAGE OF FUSES. (TYPE - PROVIDE FUSES SIZED PER EQUIPMENT MANUFACT.)		
○	FUSED DISCONNECT SWITCH, SUBSCRIPT INDICATES AMPERAGE, NUMBER OF POLES, AND AMPERAGE OF FUSES. (TYPE - PROVIDE FUSES SIZED PER EQUIPMENT MANUFACT.)		



1 LIGHTING CONTACTOR DIAGRAM

- SCALE: 1/8"=1'-0"
- PROVIDE LABEL ON EACH CONTACTOR INDICATING CIRCUITS WIRED THRU THIS CONTACTOR AND CIRCUIT NUMBERS.
 - PHOTOCELL TURNS ON ALL CIRCUITS IN LC-1.
 - PHOTOCELL DOES NOT ALLOW ANY CIRCUITS TO BE ON DURING DAYLIGHT HOURS.
 - CIRCUIT 7x-11" FOR LIGHTING CONTROLS.
 - PHOTOCELL SHALL BE FLUSH-MOUNTED TYPE WITH COVERPLATE MOUNTED ON ROOF AND AWAY NORTH. TYP. 83010, OR APPROVED EQUIVALENT.
 - PROVIDE WITH MANUAL OVER-RIDE SWITCH IN LOCKABLE COVER ADJACENT TO CONTACTOR FOR MANUAL, OVER-RIDE CONTROL.

LIGHT FIXTURE SCHEDULE

DESCRIPTION	4" LED SURFACE-MTD, VOLUING LIGHT, STEEL HOUSING, NUMBER FINISH WHITE ORN LENA, INTEGRAL ON/OFF OCCUPANCY SENSOR	LAMP	NO.	TYPE	BALAST	ELECTRONIC	NOTES	SEE NOTE 2
MANUFACTURER	LITONIA	LED	1	TYPE	APPROVED EQUIVALENT	NA	TOTAL FIX. WATTAGE: 1.5	
DESCRIPTION	EMERGENCY BATTERY PACK LIGHT FIXTURE, POLYCARBONATE HOUSING WITH WHITE FINISH, (2)-HIGH WINGS, INTEGRAL ON/OFF BATTERY.	LAMP	NO.	TYPE	BALAST <td>NA</td> <td>NOTES:</td> <td></td>	NA	NOTES:	
MANUFACTURER	SURE-LITES	LED	1	TYPE	APPROVED EQUIVALENT	NA	TOTAL FIX. WATTAGE: 1.0	
DESCRIPTION	QUARTER SPHERE LED WALL PACK, BRONZE FINISH, 1/4 IN. NET LABEL, TYPE 3 DISTRIBUTION, EQUIPPED WITH 90 WATT EMERGENCY BATTERY PACK.	LAMP	NO.	TYPE	BALAST <td>NA</td> <td>NOTES:</td> <td></td>	NA	NOTES:	
MANUFACTURER	HUBBELL	LED	1	TYPE	APPROVED EQUIVALENT	NA	TOTAL FIX. WATTAGE: 21	

LIGHT FIXTURE SCHEDULE NOTES

- VOLTAGES OF LIGHT FIXTURES SHALL BE COORDINATED WITH LIGHTING CIRCUIT TO WHICH FIXTURE IS CONNECTED.
- SURFACE MOUNTED TO CEILING, COORDINATE LOCATIONS OF FIXTURES WITH ARCHITECTURAL LIGHTING PLAN.
- COORDINATE MOUNTING REQUIREMENTS OF ALL FIXTURES WITH ARCHITECTURAL PLANS AND FINISH SCHEDULES.
- FLANGES AND TRIMS SHALL MATCH CEILING TYPES.
- ALL EMERGENCY LIGHTS, EXIT SIGNS AND NIGHT LIGHTS SHALL BE CONNECTED TO THE UNSWITCHED LEG OF THE NEAREST LIGHTING CIRCUIT SERVING THAT SAME AREA/ROOM.

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL
COMMERCIAL PROJECTS (ELECTRICAL DESIGN)

ELECTRICAL SYSTEM AND EQUIPMENT

METHOD OF COMPLIANCE
ENERGY CODE: PRESCRIPTIVE PERFORMANCE
APR 15, 2011 PRESCRIPTIVE PERFORMANCE

LIGHTING SCHEDULE

LAMP TYPE REQUIRED IN FIXTURE: SEE LIGHT FIXTURE SCHEDULE
NUMBER OF LAMPS IN FIXTURE: 1
BALAST TYPE USED IN FIXTURE: SEE LIGHT FIXTURE SCHEDULE
NUMBER OF BALLASTS IN FIXTURE: 1
TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED: 477 W vs. 612 W
TOTAL EXTERIOR WATTAGE SPECIFIED VS. ALLOWED: 42 W vs. 705 W
TOTAL EXTERIOR WATTAGE SPECIFIED VS. ALLOWED: N/A
(NON-TRADEABLE)

ADDITIONAL EFFICIENCY PACKAGE OPTIONS

- C405.2 MORE EFFICIENT VMC EQUIPMENT PERFORMANCE
- C405.2 REDUCED LIGHTING POWER DENSITY
- C405.2 DIMMING LOCAL ENERGY CONTROLS
- C405.2 ON-SITE RENEWABLE ENERGY
- C405.2 REDUCED ENERGY USE IN SERVICE WATER HEATING

ELECTRICAL EQUIPMENT CONNECTION SCHEDULE

CONNECTION DESIGNATION	LOAD DESCRIPTION	VOLTS	PHASE	LOAD INFORMATION				DISCONNECT INFORMATION							CONNECTION NOTES	CONNECTION DESIGNATION	
				HP	LOAD	MCA	MOCP	INSTALL. BY	TYPE	SWITCH RATING	POLE	FUSE OR TRIP RATING	NEMA ENCL. TYPE	CIRCUIT ID			
EH-1	ELECTRIC HEATER	120V	1	1.1-KVA				ELECT. CNTR.	ELECT. CNTR.	SW	20	1	20	1	A15		EH-1
EH-2	ELECTRIC HEATER	240V	1	3.0-KVA				ELECT. CNTR.	ELECT. CNTR.	SW	20	2	20	1	SEE PLANS		EH-2
FF-1	SERVICED/TEST PUMP	240V	1	3-KVA	17	20		ELECT. CNTR.	ELECT. CNTR.	PFM	30	2	20	3R	A15		FF-1
EF-1	EXHAUST FAN	120V	1	125 W				ELECT. CNTR.	ELECT. CNTR.	SW	20	1	20	3R	A1		EF-1
EF-2	EXHAUST FAN	120V	1	125 W				ELECT. CNTR.	ELECT. CNTR.	SW	20	1	20	3R	A1		EF-2
EW-1	WATER HEATER	120V	1	3.0-KVA				ELECT. CNTR.	ELECT. CNTR.	NON-FUSED	1	1	1	A15			EW-1

NOTES:

- PROVIDE A SINGLE-POLE MOTOR RATED TOGGLE SWITCH WITH OVERLOAD HEATERS SIZED PER EQUIPMENT MANUFACT. TO SERVE AS LOCAL DISCONNECT SWITCH PROVIDE WEATHERPROOF ENCLOSURE WHERE LOCATED OUTDOORS OR IN HOT AREA.
- WIRE TO LINE SIDE OF INTEGRAL, N.E.C. COMPLIANT DISCONNECT SWITCH PROVIDED WITH UNIT.
- FAN TO BE CONNECTED TO CIRCUIT SERVING LIGHTS IN SAME ROOM COORDINATE CONTROLS WITH INC.
- POWER FOR INDOOR AIR HANDLING UNIT IS FED FROM THE EXTERIOR OUTDOOR CONDENSING UNIT. EXTEND POWER CIRCUIT FROM CONDENSING UNIT TO LINE SIDE OF INTEGRAL, N.E.C. COMPLIANT DISCONNECT SWITCH PROVIDED IN AIR HANDLING UNIT BY MANUFACTURER. FIELD WIRE CONNECTIONS TO EQUIPMENT WITH BENCH CONTACTOR FROM THROUGH IN.



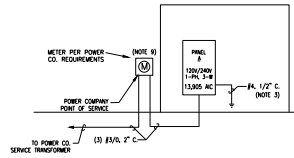
NO.	DATE	BY	ISSUED	DESCRIPTION



City of Concord Parks and Recreation
Wilson Street Park
105 Wilson Street, Concord, NC 28026

citizen design
3040 Commonwealth Ave., Suite 100
Charlotte, NC 28205
Architects • Planners • Staff

DATE: 06/01/2021
NAME:
ELECTRICAL DIAGRAMS, NOTES AND SCHEDULES
SHEET: E2

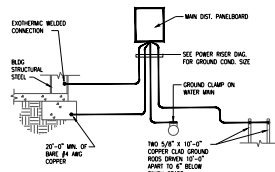


2 POWER RISER DIAGRAM
N.E.S.

A										
MAIN TYPE: MAIN BREAKER		VOLTAGE (L-L): 240		PHASE: 3		MIN. KVA/C: 23		MOUNTING SURFACE		
AMPERE RATING: 200		VOLTAGE (L-N): 120		WIRE: 3						
LUG OPTIONS:		BUS RTO (AMPS): 200								
REMARKS: NEW PANEL										
CCY BRK#	NO. AMP/TP	LOAD DESCRIPTION	CON. SIZE	PHASE	LOAD VOLT	KVA	SIZE	CON.	LOAD DESCRIPTION	CCY BRK#
1	20	EH-2	12	1-5	5-6	2.8	1.4	12	EH-1	2
3	20	EH-2	12	1-5	5-6	2.8	1.4	12	EH-2	3
9	20	REC-GENERAL	12	1-5	5-6	2.8	1.4	12	EH-2	6
9	20	SPARE							HAND DRIVER	10
11	20	SPARE							HAND DRIVER	12
13	20	LOC. (A TO CONTROL)	12	1-5	5-6	2.8	1.4	12	OUTDOOR LIGHTS	14
15	20	EH-1	12	1-5	5-6	2.8	1.4	12	SPARE	16
17	20	SPARE							SPACE ONLY	18
21		SPACE ONLY							SPACE ONLY	22
23		SPACE ONLY							SPACE ONLY	24
25		SPACE ONLY							SPACE ONLY	26
27		SPACE ONLY							SPACE ONLY	28
29		SPACE ONLY							SPACE ONLY	30
TOTAL WIRELESS LOADS		CON. SIZE	PHASE	LOAD VOLT	KVA	SIZE	CON.	LOAD DESCRIPTION	CCY BRK#	
ENERGY CODE REQ'D					0.0	1.00	0.0	MISC. WIRE	0	
NON-ENERGY CODE REQ'D					0.0	1.00	0.0	MISC. WIRE	0	
EXTERIOR LIGHTS		0.1	120	0.1	0.0	0.05	0.0	LARGEST MOTOR LM	0	
INTERPOLAR (FIRST 10)		1.4	100	1.4	0.0	1.00	0.0	SWITCHGEAR HW	0	
REMAINING		0.0	0.0	0.0	0.0	1.00	0.0	BLUETOOTH L	0	
WIRELESS EQUIPMENT		0.0	100	0.0	0.0	1.00	0.0	WIRELESS EQUIPMENT R	0	
HAND DRIVERS		0.0	100	0.0	0.0	1.00	0.0	MISC. OR PART OF EQUIP.	0	
COMPUTER LOADS		0.0	100	0.0	0.0	1.00	0.0	COMPUTER LOADS	0	
WIRELESS EQUIPMENT		0.0	100	0.0	0.0	1.00	0.0	WIRELESS EQUIPMENT	0	
MISC. WIRE		7.5	100	7.5	2.8	1.00	2.8	MISC. WIRE	0	
SYSTEM FURNISHING		0.0	100	0.0	0.0	1.00	0.0	SYSTEM FURNISHING	0	

NOTE: A. PANEL SHALL BE IN SERVICE ENTRANCE RATED AND LISTED.
 B. LOAD SHOWN IS PART OF BASE BID. ALTERNATE BID THIS BREAKER IS SPARE.
 C. THIS LOAD IS PART OF ADD ALTERNATE BID. UNDER BASE BID THIS BREAKER IS SPARE.

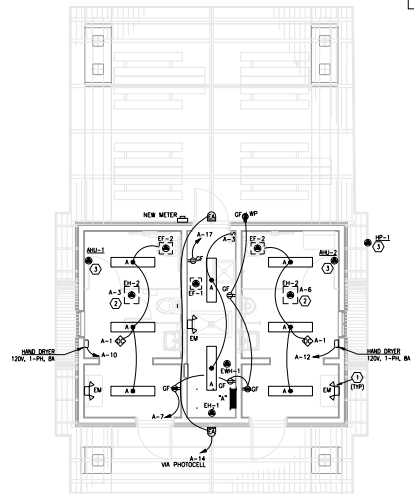
CONNECTED AMPS: 14.5
 DEMAND AMPS: 88.7



3 SERVICE GROUNDING DIAGRAM
N.E.S.

NOTE: EXTEND GROUNDING ELECTRODE CONDUCTOR TO EACH OF THE TERMINATION POINTS SHOWN ABOVE, WHICH ARE AVAILABLE ON THIS SITE/BUILDING.

- NOTES:
1. ALL WIRE SHALL BE THRU/THAN COPPER.
 2. SERIES RATING IS NOT ALLOWED.
 3. EXTEND SERVICE GROUNDING ELECTRODE CONDUCTOR TO BRICKEN GROUND RODS, BUILDING STEEL FRAMING, METAL UNDERGROUND WATER MAIN PIPING (WITHIN 5' OF ENTERING BUILDING), AND CONCRETE-ENCASED ELECTRODE. (SEE 5/15).
 4. ALL MULTI-CIRCUIT NON-FUSIBLE SHALL BE PROTECTED WITH A MULTI-POLE, SIMULTANEOUS-Trip CIRCUIT BREAKER PER N.E.C. 210.4B.
 5. A.L.C. RATINGS SHOWN ON PANELBOARD SCHEDULES ARE THE MINIMUM ALLOWED RATINGS. CONDUCTOR SHALL CONTACT ELECTRIC UTILITY COMPANY TO OBTAIN MAXIMUM AVAILABLE FAULT CURRENT AT THE POWER SERVICE TRANSFORMER. A.L.C. RATINGS OF ALL PANELBOARDS SHALL EQUAL OR EXCEED THE FAULT CURRENT INDICATED ON THE RISER DIAGRAM OR PANELBOARD SCHEDULES.
 6. UNLESS NOTED OTHERWISE, PROVIDE GREEN EQUIPMENT GROUNDING CONDUCTOR IN ALL GROUPS. GROUNDING CONDUCTORS SHALL BE SIZED PER N.E.C. ARTICLE 250.
 7. ALL TERMINATIONS ON ELECTRICAL GEAR/EQUIPMENT (i.e. PANELBOARDS, DISCONNECT SWITCHES, ETC.) SHALL HAVE DUAL RATED 90-DEGREE / 75-DEGREE LUGS/TERMINALS.
 8. PROVIDE APPROPRIATE ARC-FLASH HAZARD LABELING ON ALL ELECTRICAL GEAR REQUIRING HAZARD LEVEL PRECAUTION.
 9. ALL CONDUITS ENTERING OR LEAVING WELLS SHALL BE CONCEALED WITH WALL AND CONDUITS THAT CAN NOT BE CONCEALED (i.e. SERVICE FEEDER CONDUIT) SHALL BE INSTALLED IN RIGID METAL CONDUIT.



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

ELECTRICAL LIGHTING/POWER NOTES

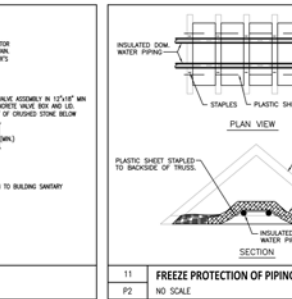
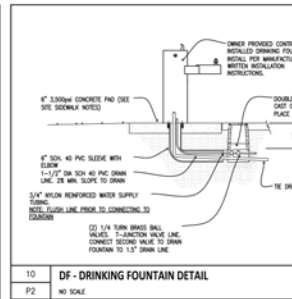
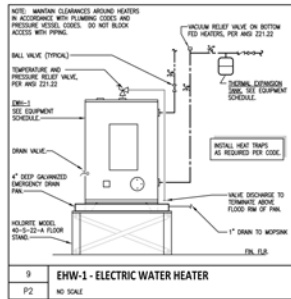
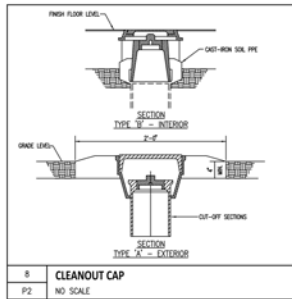
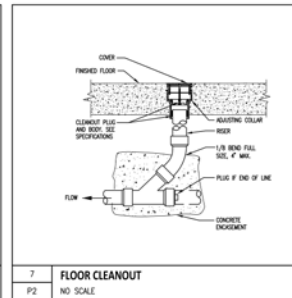
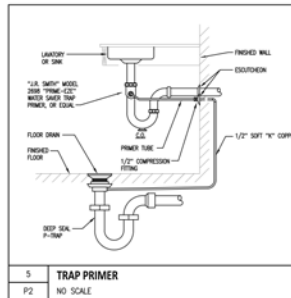
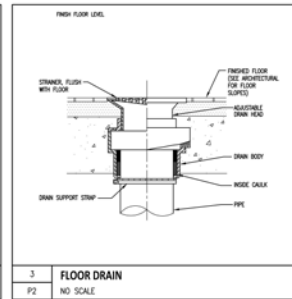
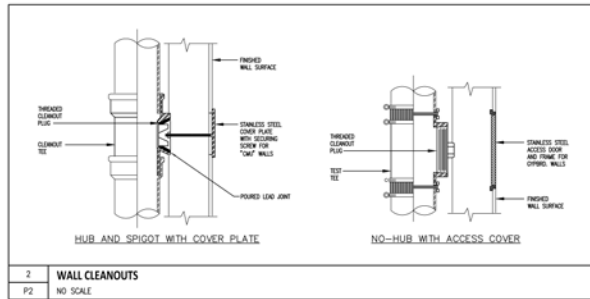
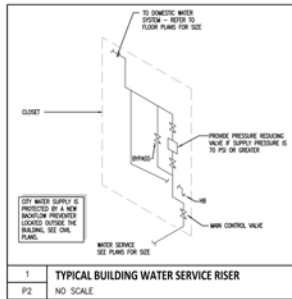
1. ALL EMERGENCY LIGHTS, EXIT SIGNS AND NIGHT LIGHTS SHALL BE CONNECTED TO THE UNBROKEN LEG OF THE NEAREST LIGHTING CIRCUIT SERVING THAT SAME AREA/ROOM.
2. THIS IS PART OF BASE BID. UNDER THE ADDITIVE ALTERNATE BID, THIS LOAD AND ASSOCIATED BRANCH CIRCUIT IS DELETED.
3. THIS IS PART OF ADDITIVE ALTERNATE BID.

DATE: 06/01/2021
 NAME:
 ELECT. FLOOR PLAN, PANEL SCHEDULE AND POWER RISER
 SHEET: E.3

citizen design
 1000 S. Salisbury Ave.
 Charlotte, NC 28205
 Architecture • Planning • Staff

City of Concord Parks and Recreation
 Wilson Street Park
 105 Wilson Street, Concord, NC 28026

CONCORD PARKS & RECREATION



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Wilson Street Park
 106 Wilson Street, Concord, NC 28026



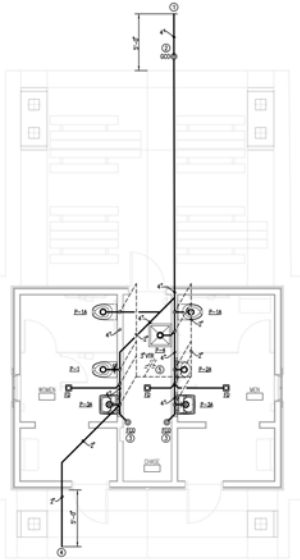
DATE: 06/01/2021
 NAME: PLUMBING DETAILS

SHEET: P2

PLUMBING LEGEND	
---	COLD WATER PIPING (DW)
---	COLD WATER PIPING BENEATH FLOOR
---	EXISTING COLD WATER PIPING (DW)
---	HOT WATER PIPING (HW)
---	HOT WATER RECYC PIPING (HW)
---	EXISTING HOT WATER PIPING (HW)
---	EXISTING HOT WATER RECYC PIPING (HW)
---	VENT PIPING (V)
---	EXISTING VENT PIPING (V)
---	WASTE PIPING (W)
---	EXISTING WASTE PIPING (W)
---	GREASE TRAP (GT)
---	EXISTING GREASE TRAP (GT)
---	NEW GAS PIPING (G)
---	EXISTING GAS PIPING (G)
---	BINGO/FLOOR CLEAN OUT
---	TRAP (DRAIN) CLEAN OUT
---	VENT THRU ROOF (VTR)
---	AIR ADMITTANCE VALVE (AAV)
---	SHUTOFF VALVE
---	PRESSURE-REDUCING VALVE
---	CONNECT NEW TO EXISTING
---	POINT OF DEMOLITION
---	DEMOLISH PIPE OR FITTING
AAV	AIR ADMITTANCE VALVE (FLOOR VENT)
AFV	AIR VENT FROM FLOOR
CO	CLEANOUT
CO2	EXISTING CLEANOUT
FCO	FLOOR CLEANOUT
FCO2	EXISTING FLOOR CLEANOUT
FD	FLOOR DRAIN (ROUND OR RECT)
FD2	EXISTING FLOOR DRAIN (ROUND OR RECT)
FS	FLOOR SINK
FS2	EXISTING FLOOR SINK
VTR	VENT THRU ROOF
VTR2	EXISTING VENT THRU ROOF
GT	GREASE TRAP (INTERCEPTOR)
GT2	EXISTING GREASE TRAP (INTERCEPTOR)

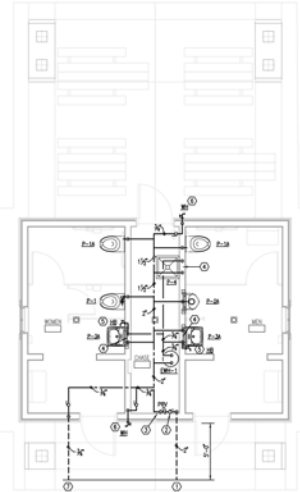
KEYED NOTES - WASTE PIPING	
①	NEW 4" SHUTOFF WASTE LINE THAT SERVES THE RESTROOM BUILDING. SEE SITE PLAN FOR GENERAL LOCATION INFORMATION. INSET = 4'-0" BY 4'-0".
②	NEW GRADE (SHUTOFF) CLEANOUT
③	NEW FLOOR (SHUTOFF) CLEANOUT
④	NEW 2" WASTE PIPING INSTALLED FROM REMOTE DRINKING FOUNTAIN (D2). SEE SITE PLAN FOR CONTINUATION. SEE DETAIL 10/PS.
⑤	2" VENT THROUGH THE ROOF. PROVIDE 4" TYPE B VENT PIPES WITH ADJUSTABLE CLEARING. IF ADJUSTABLE METAL VENT PIPING WITH DOWN COLLAR AND METAL CONE CAP WITH 2" GAP ABOVE TOP OF PIPE. THE 4" VENT PIPE SURROUNDING THE 2" ACTUAL PLUMBING VENT IS FOR AN ARCHITECTURAL FINISH. SEE CLEARINGS OR ARCHITECTURAL PLAN ALSO FOR MORE INFORMATION.

KEYED NOTES - WATER PIPING	
①	NEW 2" DOMESTIC WATER PIPE TO SERVE THE RESTROOM BUILDING. SEE CHL FOR CONTINUATION.
②	2" DOMESTIC WATER RISER WITH SHUTOFF VALVE IN RISER AND PRESSURE REDUCING VALVE UPSTREAM OF ALL FITTINGS.
③	NEW FULL PORT DOMESTIC WATER SHUTOFF VALVE.
④	1/2" IN Ø CW LINES DOWN IN WALL TO FUTURE (TYPICAL).
⑤	HOSE BIBB FOR RESTROOM CLEANUP - CONNECT TO HOT WATER LINE.
⑥	INSTALL WALL HYDRANT ABOVE THE STONE SILL WITH ENOUGH CLEARANCE TO CONNECT A HOSE.
⑦	NEW 1/2" DOMESTIC WATER PIPE BELOW GRADE TO SERVE REMOTE WATER FOUNTAIN. SEE SITE PLAN FOR CONTINUATION. SEE DETAIL 10/PS.



1 PLUMBING WASTE PLAN
P3 SCALE: 1/4" = 1'-0"

SEE CONNECTION SCHEDULES FOR RUMBLE SEE'S TO FITTINGS



2 PLUMBING WATER PLAN
P3 SCALE: 1/4" = 1'-0"

SEE CONNECTION SCHEDULES FOR RUMBLE SEE'S TO FITTINGS

PROJECT: WILSON STREET PARK
SHEET: PLUMBING WATER AND WASTE PLANS
DATE: 06/01/2021

REVISIONS

NO.	DATE	BY	DESCRIPTION

City of Concord Parks and Recreation
Wilson Street Park
108 Wilson Street, Concord, NC 28028

citizen design
James C. Conover, Architect
Charlotte, NC 28205
Architecture • Planning • Staff

DATE: 06/01/2021
NAME: PLUMBING WATER AND WASTE PLANS
SHEET: P3