Proposed
Public Restroom Facility for
Town of Carolina Beach
South - Public Boardwalk
Carolina Beach, North Carolina 28428

CONTRACT DOCUMENTS: ISSUED FOR CONSTRUCTION; Release 9/13/2024
(Issued for Code Enforcement Review and Approval / Issued for Construction - Revision 0)

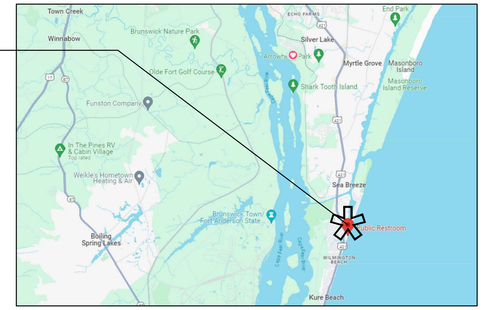
Occupancy Group Use: "UTILITY" Miscellaneous



Digitally signed by Michael L. Saieed, Jr. RA AIA (aka Mitchell)
DN: cn=Michael L. Saieed, Jr. RA AIA (aka Mitchell), o=Design Elements, ou=Architect of Record - NC Lic 8773, email=msaieed@designele.com, c=US
Date: 2024.09.16 15:48:09 -04'00'

APPROXIMATE VICINITY OF PROPOSED PROJECT SEE LOCATION MAP

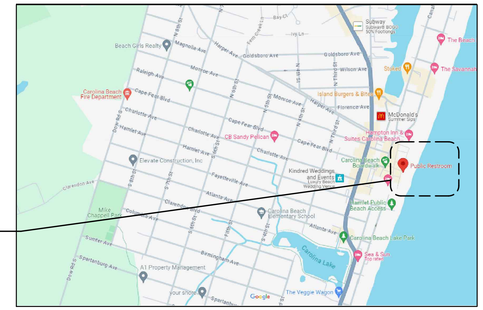
VICINITY MAP
NTS



APPROXIMATE AREA OF BUILDING FACILITY NEW CONSTRUCTION

LOCATION MAP
NTS

1 A100 1 A101



KEY PLAN *NOT TO SCALE*

SITE NORTH PLAN NORTH

SHEET TITLES

G000	COVER SHEET
G101	BUILDING CODE DATA SUMMARY
G102	LIFE SAFETY PLAN
N100	ACCESSIBILITY DETAILS, SYMBOLS AND LEGENDS
N101	GENERAL CONSTRUCTION & FINISH NOTES
N102	SYMBOLS AND LEGENDS
C1.0	CIVIL EXISTING SITE AND DEMOLITION PLAN
C1.1	SITE PLAN
C1.2	CIVIL DETAILS
GA100	SCHEMATIC GENERAL ARRANGEMENT FLOOR PLANS
A100	DIMENSIONAL GROUND (FIRST) FLOOR PLAN
A101	DIMENSIONAL SECOND (BEACH STRAND) FLOOR PLAN
A102	ROOF/FRAMING PLAN
A200	WEST AND NORTH BUILDING ELEVATIONS
A201	SOUTH AND EAST BUILDING ELEVATIONS
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A301	BUILDING SECTIONS
A400	INTERIOR ELEVATIONS GROUND LEVEL
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A500	WALL TYPES AND WALL SECTION KEYNOTES
A501	TYPICAL WALL SECTIONS
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A505	TIMBERTECH BREAKAWAY WALL DETAILS
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	DOOR HARDWARE SCHEDULE
A601	TYPICAL DOOR & WINDOW DETAILS
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A700	SECTION THROUGH DORMER
A701	MISCELLANEOUS DETAILS
A800	ARCHITECTURAL FINISH PLANS & SCHEDULE
A801	ARCHITECTURAL REFLECTED CEILING PLAN SECOND LEVEL FINISH AND DETAILS
S0.0	STRUCTURAL NOTES & ABBREVIATIONS
S0.1	FOUNDATION AND SLAB PLAN
S1.0	FOUNDATION & SLAB PLAN
S1.1	SECTIONS AND DETAILS
S1.2	SECTIONS AND DETAILS
S1.3	SECTIONS AND DETAILS
S1.4	SECTIONS AND DETAILS
S2.0	DECK PILE AND DECKING FRAMING PLAN
S2.1	DECK SECTIONS AND DETAILS
S2.2	DECK SECTIONS AND DETAILS
P001	PLUMBING LEGEND, SCHEDULES & DETAILS
P002	PLUMBING DETAILS
P100	PLUMBING FLOOR PLANS
P300	PLUMBING SECTION
M100	MECHANICAL SCHEDULES, NOTES & DETAILS
M101	MECHANICAL FIRST & SECOND FLOOR PLAN
M102	MECHANICAL BUILDING SECTION
E100	ELECTRICAL NOTES, LEGENDS & SCHEDULES
E101	ELECTRICAL FIRST FLOOR PLAN
E102	ELECTRICAL SECOND FLOOR PLAN
E501	ELECTRICAL DETAILS

CAROLINA BEACH PUBLIC RESTROOM FACILITY – 2024 Contract Documents – Issued for Construction

ARCHITECTURAL FIRM OF RECORD:

DESIGN ELEMENT, INC. CERT.NO. 51371 WRIGHTSVILLE BEACH, NC NORTH CAROLINA REGISTERED ARCHITECTURAL CORPORATION

Design Elements
Michael L. Saieed, Jr., AIA, LEED-AP
Architect

ENGINEERING FIRM (MECHANICAL, ELECTRICAL, PLUMBING) OF RECORD:

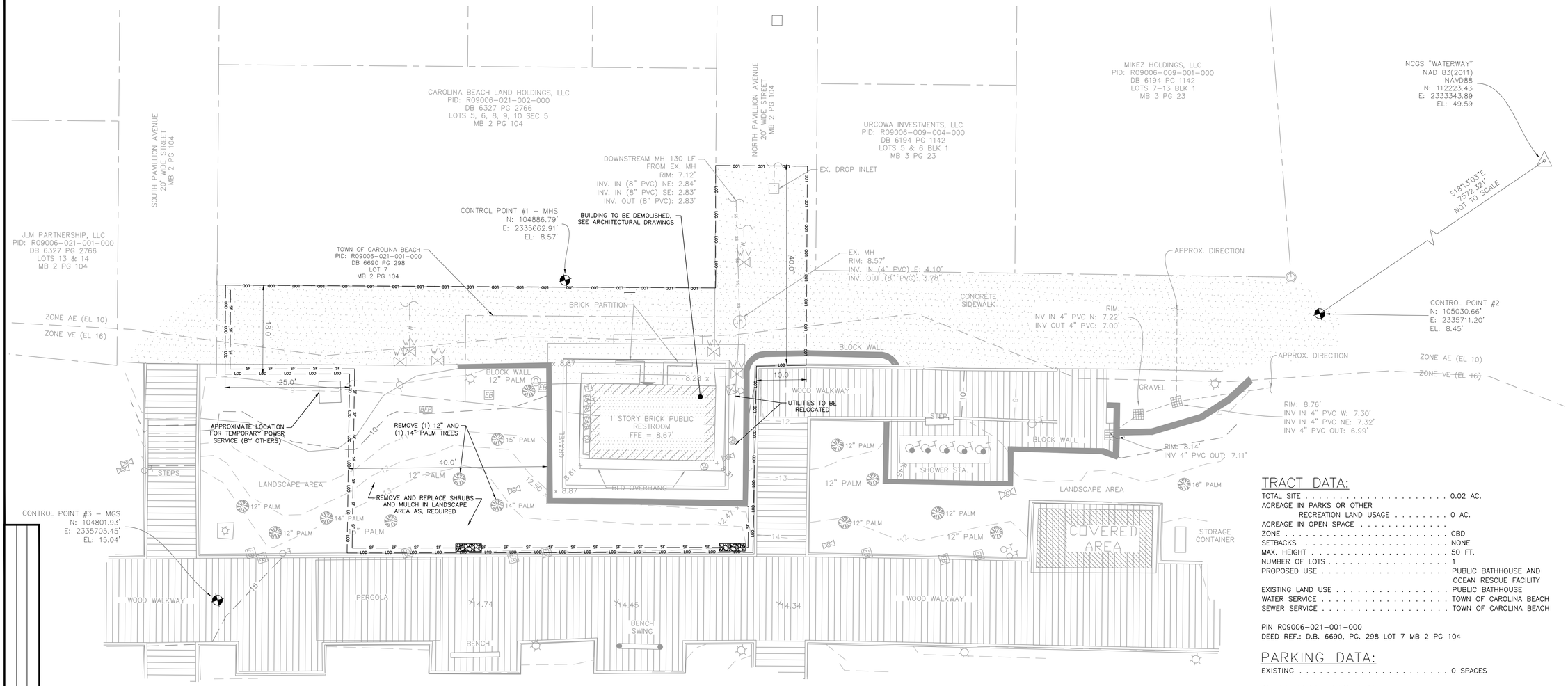
Cheatham and Associates, P.A.
Mechanical | Electrical | Plumbing | Fire Protection
3412 Enterprise Drive
Wilmington, NC 28405
910.452.4210 | www.cheathampa.com

ENGINEERING FIRM (STRUCTURAL) OF RECORD:

ARDURRA
ARDURRA GROUP NORTH CAROLINA
3809 Peachtree Avenue, Suite 102
Wilmington, North Carolina 28403
Phone: (910) 397-2929
www.Ardurra.com
NC FIRM LICENSE NUMBER F-0113

ENGINEERING FIRM (CIVIL) OF RECORD:

HIGHFILL
INFRASTRUCTURE ENGINEERING, P.C.
3804 Park Avenue, Unit A
Wilmington, NC 28403
ph 910-313-1516



GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

1 EXISTING SITE AND DEMOLITION PLAN

SCALE: 1" = 10'

LEGEND

IRF	IRON ROD FOUND
MGF	MAG NAIL FOUND
MGS	MAGNAIL SET
MHS	MAGHUB SET
	STORM CATCH BASIN
	SEWER CLEANOUT
S	SEWER MANHOLE
BFP	BACKFLOW PREVENTOR
	FIRE HYDRANT
	IRRIGATION VALVE
	WATER METER
WV	WATER VALVE
	TEL-COM PEDESTAL
	WATER SPIGOT
EB	POWER BOX/METER
EM	POWER METER
	LIGHT POLE
	LANDSCAPE LIGHT
	BOLLARD
FF=100.00'	FINISH FLOOR ELEV.
x 10.0'	SPOT ELEVATION
POST	FENCE POST
SF	SILT FENCE
	SILT FENCE OUTLET
LOD	LIMITS OF DISTURBANCE

GENERAL NOTES:

1. EXISTING SURVEY DATA PROVIDED BY STEWART ENGINEERING FOR ENGINEERING PURPOSES ONLY, NOT FOR RECORDATION.
2. CONTRACTOR SHALL OBTAIN BUILDING PERMIT BEFORE ANY ON-SITE CONSTRUCTION COMMENCES.
3. THE CONTRACTOR SHALL HAVE A COMPLETE SET OF CONTRACT DOCUMENTS, PERMIT APPROVALS, AND EASEMENTS ON THE JOB SITE AT ALL TIMES.
4. REASONABLE CARE HAS BEEN EXERCISED IN SHOWING THE LOCATION OF EXISTING UTILITIES ON THE PLANS. THE EXACT LOCATION OF ALL EXISTING UTILITIES IS NOT KNOWN IN ALL CASES. THE CONTRACTOR SHALL EXPLORE THE AREA AHEAD OF CONSTRUCTION ACTIVITIES BY OBSERVATION, ELECTRONIC DEVICES, HAND DIGGING, AND BY PERSONAL CONTACT WITH THE UTILITY COMPANIES TO DETERMINE THE ACTUAL LOCATION OF ALL EXISTING UTILITIES IN AN EFFORT TO AVOID INFLICTING DAMAGE TO THOSE UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS RESULTING FORM DAMAGE TO THE EXISTING UTILITIES ARISING FROM CONSTRUCTION. SUCH COSTS INCLUDE LOSS OF UTILITY REVENUES. IF NECESSARY, CONTRACTOR SHALL ARRANGE FOR RELOCATION OR TEMPORARY SUPPORT OF EXISTING UTILITIES SUCH AS POLES, CONDUITS, CABLES, WATER AND SEWER MAINS, STORM DRAINS, ETC.
5. CONTRACTOR SHALL MAKE EVERY EFFORT TO PRESERVE PROPERTY IRONS, MONUMENTS, OTHER PERMANENT POINTS AND LINES OF REFERENCE AND CONSTRUCTION STAKES. PROPERTY IRONS, MONUMENTS, AND OTHER PERMANENT POINTS OF REFERENCE DESTROYED BY THE CONTRACTOR SHALL BE REPLACED BY A PROFESSIONAL LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
6. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION STAKING.
7. CONTRACTOR IS RESPONSIBLE FOR AS-BUILT SURVEY.
8. ANY PAVEMENT OR CONCRETE DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED.
9. CONTRACTOR SHALL RESTORE/REPLACE ALL DISTURBED SIGNS.
10. ALL MATERIAL CLEARED OR DEMOLISHED BY THE CONTRACTOR IN ORDER TO CONSTRUCT THE BUILDING SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE PROPERLY DISPOSED OF OFF SITE IN A LEGAL AND LAWFUL MANNER.

LANDSCAPING NOTES:

1. REMOVE AND REPLACE EXISTING MULCHING, SHRUBS AND TREES AS REQUIRED TO COMPLETE WORK. CONTRACTOR SHALL TAKE PRECAUTIONS WITH REMAINING TREES TO NOT DAMAGE THEM. ANY DAMAGED TREES NOT DESIGNATED FOR REMOVAL SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.

SILT FENCE NOTES:

1. LINE WIRES SHALL BE MINIMUM 10-GAUGE, AND INTERMEDIATE WIRES TO BE MINIMUM 12 ½ GAUGE.
2. SILT FENCE TO BE GEOTEXTILE FABRIC AT A HEIGHT OF 26-INCHES ABOVE GRADE. FABRIC SHOULD CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE MINIMUM CONSTRUCTION LIFE OF SIX MONTHS.
3. POSTS TO BE CONSTRUCTED OF 5' STEEL, BURIED 2' DEEP WITH 3' ABOVE GRADE.
4. REPAIR WHEN ANY FABRIC COLLAPSES, TEARS, DECOMPOSES, OR BECOMES INEFFECTIVE.
5. POSTS: 1.33 LB/LINEAR FOOT STEEL.
6. PROVIDE CLASS B EROSION CONTROL STONE FOR SILT FENCE STONE OUTLETS.
7. SILT FENCE STONE OUTLETS, RIP-RAP SHALL NOT EXEED 24 INCHES IN HEIGHT AT CENTER AND SLOPE SHALL BE 2:1

SILT BAG (3/C-1.2):

1. UTILIZE SILT BAGS AS REQUIRED TO PUMP WATER FROM OPEN TRENCHES.
2. USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL STONE.
3. WOOD PALLETS MAY BE USED TO SUPPORT SILT BAGS IN LIEU OF STONE AND GEOTEXTILE AS DIRECTED. SIZE AND NUMBER OF SILT BAGS SHOULD BE BASED ON THE DEWATERNG PUMP AND MANUFACTURER RECOMMENDATIONS.
4. TIGHTLY SECURE THE PUMP DISCHARGE TO THE SILT BAG SLEEVE WITH A STRAP OR SIMILAR DEVICE TO PREVENT WATER/SEDIMENT FROM LEAKING WITHOUT TREATMENT.
5. CONTROL PUMPING RATE TO PREVENT EXCESSIVE PRESSURE WITHIN THE SILT BAG IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS.
6. REPLACE THE SILT BAG WHEN HALF FULL OF SEDIMENT.

TRACT DATA:

TOTAL SITE	0.02 AC.
ACREAGE IN PARKS OR OTHER RECREATION LAND USAGE	0 AC.
ACREAGE IN OPEN SPACE	
ZONE	CBD
SETBACKS	NONE
MAX. HEIGHT	50 FT.
NUMBER OF LOTS	1
PROPOSED USE	PUBLIC BATHHOUSE AND OCEAN RESCUE FACILITY
EXISTING LAND USE	PUBLIC BATHHOUSE
WATER SERVICE	TOWN OF CAROLINA BEACH
SEWER SERVICE	TOWN OF CAROLINA BEACH

PIN R09006-021-001-000
DEED REF.: D.B. 6690, PG. 298 LOT 7 MB 2 PG 104

PARKING DATA:

EXISTING . . . . . 0 SPACES

GENERAL NOTES:

1. THERE ARE NO AREAS OF ENVIRONMENTAL CONCERN (AEC) AS DEFINED BY COASTAL MANAGEMENT ACT (CAMA) AT THIS SITE.
2. THIS SITE IS LOCATED IN FEMA FLOOD ZONE "VE-16" (16.00' MSL) PER FEMA CPN 3720313000K (TOWN OF CAROLINA BEACH), EFFECTIVE 08/28/2018.
3. BOUNDARY DATA TAKEN FROM A SURVEY BY STEWART, DATED 06/04/2024, FIRM LICENSE NUMBER C-1051.
4. BENCHMARK DATA AND EXISTING TOPOGRAPHIC SURVEY TAKEN FROM SURVEY PROVIDED BY DAVID M. EDWARDS (NC PLS #L-3901) OF STEWART INC.
5. THE HORIZONTAL DATUM IS NC GRID NAD83(2011).
6. VERTICAL DATUM IS NAVD 88 IN U.S. SURVEY FEET.
7. ADJOINING PROPERTY INFORMATION PER NEW HANOVER COUNTY TAX RECORDS.
8. ALL DISTANCES ARE HORIZONTAL GROUND, U.S. SURVEY FEET.
9. NO RECORD SEARCH DONE BY, FURNISHED TO SURVEYOR IN REGARD TO ZONING, SETBACKS, EASEMENTS OR RESTRICTIONS.
10. EXISTING UTILITY LINES MAY INFER THE EXISTENCE OF AN EASEMENT.
11. THERE ARE NO WETLANDS ON THIS SITE.

no.	date	revision
A	09/06/24	ISSUE FOR BID – NOT RELEASED FOR CONSTRUCTION
B	10/11/24	ISSUED FOR CONSTRUCTION

HIGHFILL
INFRASTRUCTURE
ENGINEERING, P.C.
3804 Park Avenue, Unit A
Wilmington, NC 28403
Tel 910-313-1516
www.hiepc.com
Firm License No. C-2586

NORTH CAROLINA PROFESSIONAL SEAL 046286 ENGINEER JEFFREY RAY
10/11/24
NOT VALID UNLESS SIGNED AND DATED

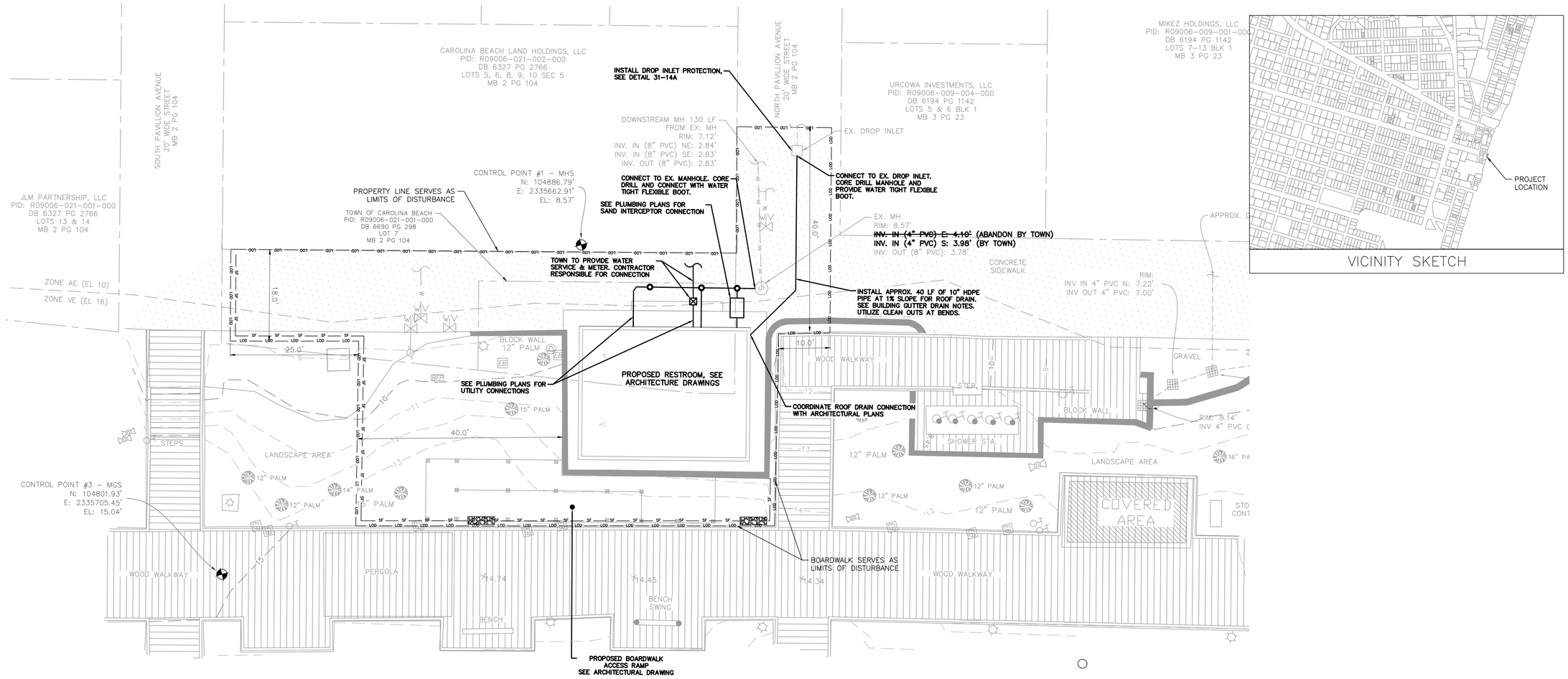
Design Elements
M. L. Sdeed (Michael), R.A., AIA, LEED-AP
Architectural Corporation (NC 5131)
7321 Gordon Road, Suite 6-C
Wilmington, North Carolina 28405
910. 509. 3131

Proposed Public Works Restroom Facility for
Town of Carolina Beach
CAROLINA BEACH AVE. SOUTH – PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428

EXISTING SITE AND DEMOLITION PLAN

job status **Contract Documents - NOT Issued for Construction**

date	08/20/2024
job no.	CB/RESTRM/24
drawn by	JBR
checked by	JBR
drawing no.	C-1.0
revision no.	B



2 PLAN – UTILITY SITE PLAN

SCALE: 1" = 10'

NOTES:

1. ALL CONCRETE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE. UPON COMPLETION OF BACKFILLING, REMOVE AND PROPERLY DISPOSE OF EXCESS MATERIAL AND WASTE.
2. TOWN SHALL PROVIDE WATER AND SEWER UTILITY MAIN RELOCATION. CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONNECTION LOCATIONS.
3. PROVIDE TESTING AND CLEAN UP AS SOON AS PRACTICABLE.

UTILITY GEOTECHNICAL NOTES:

1. REPORT OF GEOTECHNICAL EXPLORATION CAROLINA BEACH RESTROOM STRUCTURE BY S&ME DATED APRIL 29, 2024 IS PROVIDED IN THE PROJECT MANUAL
2. GROUND WATER WAS ENCOUNTERED DURING BORING AT 5.7' (BORE B-1) AND 8.3' (BORE B-2) BELOW GRADE, SEE REPORT.
3. GEOTECHNICAL ENGINEER SHALL REVIEW SITE FOR UNSUITABLE SOILS. METHOD OF SUBGRADE IMPROVEMENTS OR REPAIR SHALL BE APPROVED BY GEOTECHNICAL ENGINEER.
4. IF SOILS ARE IMPORTED TO SITE, GEOTECHNICAL ENGINEER SHALL APPROVE THE SUITABILITY OF THE SOILS PRIOR TO THEIR DELIVERY.
5. ALL PLACEMENT AND COMPACTION OF STRUCTURAL FILL SHALL BE OBSERVED AND TESTED BY GEOTECHNICAL ENGINEER.
6. ALL EXCAVATION ON SITE SHOULD BE BACKFILLED WITH STRUCTURAL FILL. STRUCTURAL FILL REQUIREMENTS:
   - 6.1. COMPACTION STANDARD: STANDARD PROCTOR, ASTM D698
   - 6.2. USCS CLASSIFICATION OF SM, SC, SP, SW OR SOME COMBINATION.
   - 6.3. REQUIRED COMPACTION (UPPER 1 FOOT): 98% OF MAX DRY DENSITY
   - 6.4. REQUIRED COMPACTION (DEPTHS GREATER THAN 1 FOOT): 95% OF MAX DRY DENSITY
   - 6.5. DRY UNIT WEIGHT: >100 PCF
   - 6.6. MOISTURE CONTENT: -3 TO +3% OPTIMUM MOISTURE VALUE
   - 6.7. LOOSE THICKNESS: 8" TO 10" LIFTS MAX.

BUILDING GUTTER DRAIN NOTES:

1. SEE C-1.2 FOR DRAINAGE SYSTEM DETAIL. MANUFACTURER SHOWN IS TO CONVEY THE QUALITY AND PERFORMANCE OF MATERIALS REQUIRED. EQUAL SYSTEMS CAN BE SUBMITTED FOR REVIEW.
2. INSTALL PIPING AT 18" MIN. COVER AND 1% MINIMUM SLOPE TO STORMWATER COLLECTION SYSTEM.
3. CONNECT BUILDING GUTTERS TO BURIED DRAINAGE SYSTEM WITH HDPE PIPE AND GUTTER ADAPTOR. CLEAN-OUTS INSTALLED IN PAVED AREAS AND SIDEWALK AREAS SHALL BE TRAFFIC RATED IRON CLEAN-OUT COVER ASSEMBLY.

UTILITY EXCAVATING NOTES:

1. STOCKPILE EXCAVATED MATERIAL IN SUCH A MANNER THAT IT WILL NOT OBSTRUCT THE FLOW OF RUNOFF OR IMPAIR THE USE OR APPEARANCE OF EXISTING FACILITIES, OR BE DETRIMENTAL TO THE COMPLETED WORK.
2. CONTRACTOR SHALL SEGREGATE EXCAVATED MATERIAL SO AS TO MAINTAIN MATERIAL SUITABLE FOR BACKFILL SEPARATE FROM MATERIAL THAT IS UNSUITABLE.
3. TRENCH WIDTH SHALL NOT EXCEED 3 FEET.
4. SHAPE TRENCH BEDDING TO PROVIDE UNIFORM BEARING FOR THE FULL PIPE LENGTH. BOTTOM SHALL BE FREE OF PROTRUSIONS THAT COULD CAUSE POINT LOADING ON PIPE.
5. UNDERCUT SOILS THAT BECOME UNSATISFACTORY BY CONSTRUCTION ACTIVITY OR BEING LEFT EXPOSED TO THE WEATHER SHALL BE REPLACED WITH CLASS I BACKFILL MATERIAL AT NO ADDITIONAL COST.
6. SUBMIT PROPOSED REMEDY FOR UNSTABLE SOIL CONDITIONS TO ENGINEER FOR PRIOR APPROVAL.

UTILITY BACKFILLING NOTES:

1. DO NOT PROCEED WITH BACKFILLING WHEN RAINING OR ON SATURATED SUBGRADE.
2. IF EXCAVATED MATERIAL IS UNSUITABLE TO OBTAIN COMPACTION, PROVIDE SUITABLE OFF-SITE BORROW MATERIAL FOR BACKFILL AS APPROVED BY ENGINEER.
3. RE-EXCAVATE IMPROPERLY COMPACTED TRENCHES. BACKFILL AND COMPACT AS SPECIFIED.
4. PROVIDE APPROPRIATE TAMPING EQUIPMENT, AND WATER TO OBTAIN PROPER MOISTURE CONTENT, TO ACHIEVE SPECIFIED COMPACTION OF BACKFILL.
5. CONDUCT OPERATION OF HEAVY EQUIPMENT ABOVE PIPE INSTALLATION IN SUCH A MANNER AS TO PREVENT DAMAGE TO PIPE.
6. INSTALL WARNING/IDENTIFICATION TAPE OVER UTILITIES. BURY TAPE ONE FOOT BELOW FINISHED GRADE ABOVE THE UTILITY.
7. PIPE EMBEDMENT ZONE: BACKFILL WITH MATERIAL FREE FROM OBJECTS LARGER THAN 2 INCHES. PLACE BACKFILL MATERIAL TO ASSURE PLACEMENT OF MATERIAL UNDER PIPE HAUNCHES.
8. PLACE BACKFILL IN BEDDING AND HAUNCHING ZONES LIFTS NO LARGER THAN 6 INCHES.
9. FINAL BACKFILL SHALL BE FREE OF STONES AND DEBRIS LARGER THAN 6 INCHES AND PLACED IN LIFTS NO LARGER THAN 8 INCHES.

PAVEMENT REMOVAL AND PATCHING:

1. CUT EXISTING PAVEMENT FOR UTILITY INSTALLATION IN STRAIGHT LINES GENERALLY PARALLEL TO THE UTILITY.
2. REPLACE CONCRETE PAVEMENT WITH PAVEMENT STRUCTURE EQUAL TO EXISTING CONCRETE. CONCRETE SHALL BE MINIMUM 3,000 PSI. WHEN EXISTING CONCRETE JOINT IS WITHIN 5 FEET OF TRENCH REMOVE EXISTING CONCRETE TO JOINT. PROVIDE EXPANSION JOINT AT EDGE OF EXISTING CONCRETE. SURFACE TREATMENT SHALL MATCH EXISTING.

UTILITY NOTES:

1. ALL FLEXIBLE COUPLINGS SHALL BE OF THE CORRECT SIZE FOR THE PIPE TO BE JOINED AND SHALL BE INSTALLED PROPERLY TO PROVIDE A WATERTIGHT CONNECTION.
2. FLEXIBLE COUPLINGS SHALL BE PROVIDED WITH 300 SERIES STAINLESS-STEEL CLAMP BANDS AND SCREWS.
3. PIPE-TO-MANHOLE CONNECTOR SHALL BE IN COMPLIANCE WITH ASTM C923.
4. FLEXIBLE COUPLINGS SHALL BE AS MANUFACTURED BY THE FERNCO JOINT SEALER COMPANY, OR EQUAL.
5. INSTALL PIPE IN LOCATIONS AND AT ALIGNMENT AND GRADES SHOWN AND SPECIFIED, EXCEPT AS OTHERWISE DIRECTED BY THE ENGINEER. ADJUSTMENTS TO THE ALIGNMENT AND GRADE MUST MEET OWNER AND NCDEQ REQUIREMENTS.
6. USE A LASER DEVICE TO MAINTAIN THE TRENCH AND PIPE ALIGNMENT. THE LASER DEVICE SHALL BE RE-CHECKED FOR CORRECT ELEVATION AND PIPE ALIGNMENT PRIOR TO PIPE INSTALLATION IF THE DEVICE IS LEFT IN THE PIPE OVERNIGHT. CORRECTED INVERT ELEVATIONS AT EACH MANHOLE AND ANY ADJUSTMENTS SHALL BE COORDINATED WITH AND APPROVED BY ENGINEER.
7. STORE GASKETS IN A COOL DARK PLACE UNTIL INSTALLATION. GASKETS SHALL NOT BE EXPOSED TO OIL, GREASE, OZONE, EXTENSIVE HEAT, SUNLIGHT, OR OTHER ELEMENTS THAT WOULD DEGRADE THE GASKET.
8. INSPECT EACH LENGTH OF PIPE FOR DAMAGE BEFORE IT IS LOWERED INTO THE TRENCH. INSPECT THE INSIDE OF THE PIPE FOR DIRT AND FOREIGN OBJECTS SUCH AS TOOLS, CLOTHING, ETC. AND REMOVE THOSE ITEMS.
9. PIPE AND APPURTENANCES SHALL BE CAREFULLY LOWERED INTO THE TRENCH TO PREVENT THE PIPE AND COATING BEING DAMAGED. DO NOT INSTALL DAMAGED PIPE.
10. BEGIN PIPE INSTALLATION AT THE LOW END AND PROCESS UP-GRADIENT. PIPE SHALL BE INSTALLED WITH BELL ENDS UPSTREAM IN THE DIRECTION OF LAYING. PIPE SHALL BE INSTALLED BY PLACING THE SPIGOT PLAIN END OF THE PIPE INTO THE PREVIOUSLY LAID SOCKET.
11. TO PREVENT GASKET DISPLACEMENT AND LEAKING JOINTS, REMOVE SAND, DIRT, GRIT, EXCESS COATING, ICE, AND OTHER FOREIGN MATERIAL FROM THE PLAIN END AND THE GASKET RECESSES OF THE BELL. SURFACES OF THE PIPE JOINT AND JOINTING MATERIALS SHALL BE CLEAN AND DRY. USE LUBRICANTS, PRIMER, ADHESIVES, ETC., AS RECOMMENDED BY THE PIPE OR JOINT MANUFACTURER'S SPECIFICATIONS. THE JOINTING MATERIAL OR FACTORY-FABRICATED JOINTS SHALL THEN BE PLACED, FITTED, AND ADJUSTED IN A SKILLFUL MANNER TO OBTAIN THE DEGREE OF WATER TIGHTNESS REQUIRED.
12. EXCAVATION AND PLACEMENT OF BACKFILL SHALL BE PERFORMED IN THE DRY. PIPE SHALL NOT BE LAID IN WATER OR WHEN TRENCH CONDITIONS ARE UNSUITABLE FOR WORK. FURNISH, INSTALL, AND OPERATE EQUIPMENT AS NECESSARY TO KEEP EXCAVATIONS FREE FROM WATER DURING CONSTRUCTION.
13. IMMEDIATELY AFTER EACH JOINT IS MADE, PLACE SUFFICIENT EMBEDMENT MATERIAL ALONG EACH SIDE OF THE PIPE TO PREVENT MOVEMENT OF THE PIPE AND DISTURBANCE OF ALIGNMENT AND GRADE. NO PIPE SHALL BE BROUGHT INTO POSITION UNTIL THE PRECEDING LENGTH HAS BEEN THOROUGHLY BEDDED AND SECURED IN PLACE. PREVENT DAMAGE TO OR DISTURBANCE OF THE JOINTS DURING THE BACKFILLING PROCESS. CORRECT ANY DEFECTS DUE TO SETTLEMENT.
14. INSTALL FITTINGS, SUCH AS WYES AND OTHER CONNECTIONS, AT THE LOCATIONS INDICATED ON THE DRAWINGS IN ACCORDANCE WITH THE STANDARD DETAILS.
15. INSTALL PIPE TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE OR JOINTS.
16. PIPE LAYING SHALL BE DONE IN SUCH A WAY AS TO DISTURB THE PIPE THAT HAS ALREADY BEEN INSTALLED AS LITTLE AS POSSIBLE.
17. DEFLECT PIPE JOINTS IN STRICT ACCORDANCE WITH PIPE MANUFACTURER'S INSTRUCTIONS.
18. LOCATE PIPE TO MAINTAIN A MINIMUM CLEARANCE OF 18 INCHES IN ALL DIRECTIONS FROM OTHER UTILITIES AND STRUCTURE.
19. NO DEBRIS, TOOLS, CLOTHING, OR OTHER MATERIALS SHALL BE PLACED IN THE PIPE AT ANY TIME.
20. PREVENT FOREIGN MATERIAL FROM ENTERING THE PIPE DURING PLACEMENT. KEEP PIPES CLEAN DURING AND AFTER LAYING AND SEAL THE PIPE END WITH A WATER-TIGHT PLUG AT THE END OF THE DAY'S WORK AND WHEN PIPE LAYING IS STOPPED FOR ANY REASON. THE PLUG SHALL REMAIN IN THE PIPE WHEN PIPE LAYING IS NOT IN PROGRESS. THE PIPE SHALL NOT BE USED AS A MEANS OF DRAINING GROUND WATER FROM THE AREA.
21. DURING PIPE INSTALLATION, EACH PIPE MANUFACTURER SHALL PROVIDE HIS OWN SUPERVISOR TO INSTRUCT CONTRACTOR'S PIPE LAYING PERSONNEL IN THE CORRECT PROCEDURE TO BE FOLLOWED, IF DEEMED NECESSARY BY THE ENGINEER, AT NO ADDITIONAL EXPENSE TO THE OWNER.
22. WHEN TRENCH BOTTOM IS BELOW THE EXISTING GROUND WATER TABLE, INSTALL A DEWATERING SYSTEM TO MAINTAIN WATER TABLE A MINIMUM OF TWO (2) FEET BELOW TRENCH BOTTOM. PROVIDE PERSONNEL EXPERIENCED IN DEWATERING WORK AT JOB SITE.
23. MAINTAIN DEWATERING UNTIL BACKFILLING HAS PROCEEDED ABOVE THE EXISTING WATER LEVEL. DISPOSE OF WATER FROM DEWATERING OPERATION IN ACCORDANCE WITH THE NC SEDIMENTATION POLLUTION CONTROL ACT.
24. IN NO CASE SHALL TRENCH WATER OR GROUNDWATER BE PUMPED INTO OR ALLOWED TO ENTER THE SANITARY SEWER SYSTEM.

no.	date	revision
A	09/06/24	ISSUE FOR BID – NOT RELEASED FOR CONSTRUCTION
B	10/11/24	ISSUED FOR CONSTRUCTION

HIGHFILL INFRASTRUCTURE ENGINEERING, P.C.
3804 Park Avenue, Unit A
Wilmington, NC 28403
Tel 910-313-1516
www.hiepc.com
Firm License No. C-2586

NORTH CAROLINA PROFESSIONAL SEAL 046286 ENGINEER JEFFREY RAY
10/11/24
ALL NOT VALID UNLESS SIGNED AND DATED

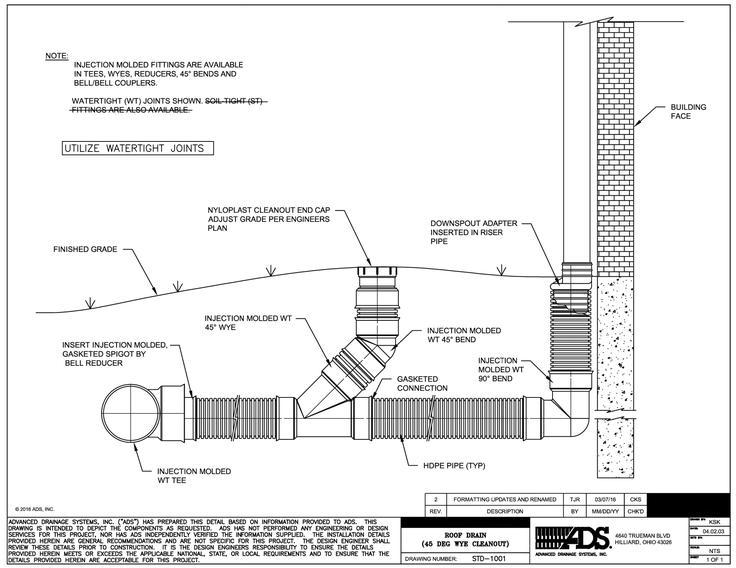
Design Elements
M. L. Sdeed (Michael), R.A., AIA, LEED-AP
Architectural Corporation (NC 5131)
2731 Carolina Beach Road, Suite C
Wilmington, North Carolina 28405
910. 509. 3131

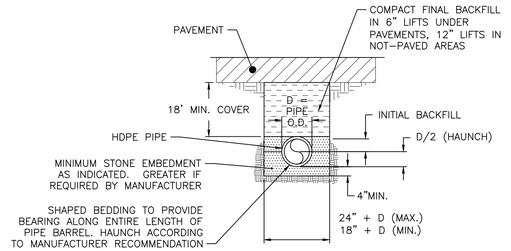
Proposed Public Works Restroom Facility for
Town of Carolina Beach
CAROLINA BEACH AVE. SOUTH – PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428

SITE PLAN

job status: Contract Documents - NOT Issued for Construction

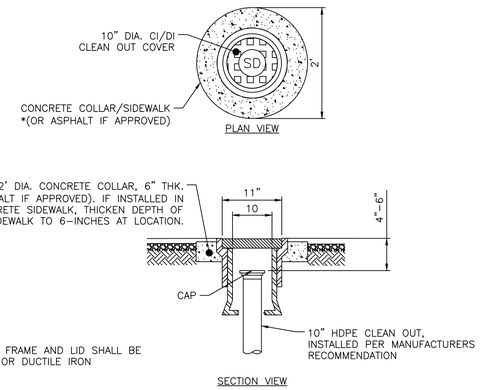
date	08/20/2024
job no.	CB/RESTRM/24
drawn by	JBR
checked by	JBR
drawing no.	C-1.1
revision no.	B



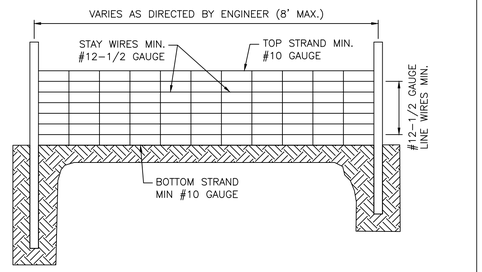


NOTES:
1. BEDDING SHALL BE # 67 STONE.
2. INITIAL BACKFILL SHALL BE #67 STONE.
3. BACKFILL SHALL BE FREE OF ROCK LARGER THAN 2" IN ANY DIRECTION (NO ROCK LARGER THAN ¾" WITHIN 12" OF PIPE) AND FREE OF DEBRIS AND ORGANIC MATTER. COMPACT TO 95% MAXIMUM DRY DENSITY.
4. BEDDING DETAIL SHOWN APPLIES TO PIPE INVERT DEPTHS OF 14' OR LESS.

1 DETAIL – HDPE STORM PIPE BEDDING
NTS



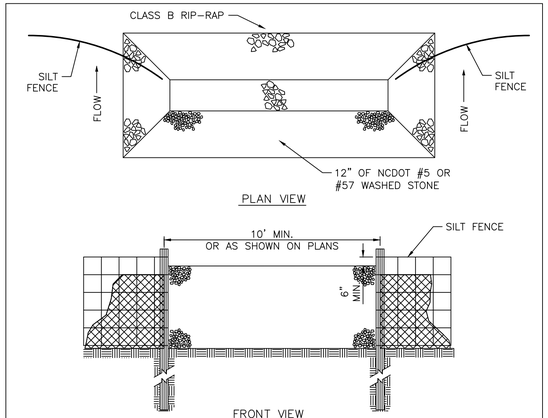
2 DETAIL – TRAFFIC RATED CLEANOUT
NTS



NOTES:
1. WIRE SHALL BE A MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES W/12" STAY SPACING.
2. FILTER FABRIC SHALL BE A MINIMUM OF 36" IN WIDTH AND SHALL BE FASTENED ADEQUATELY TO THE WIRE AS DIRECTED BY THE ENGINEER.
3. STEEL POST SHALL BE 5' 0" IN HEIGHT AND BE OF SELF FASTENER ANGLE TYPE.

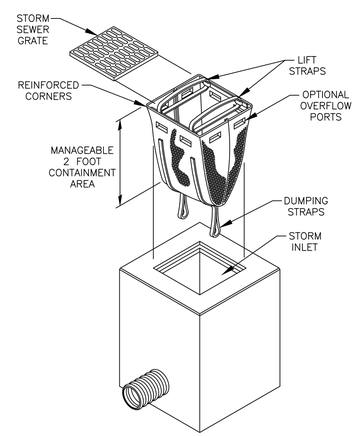
MAINTENANCE NOTES:
1. CLEAN OUT AT 50% CAPACITY
2. LIFE OF FENCING: 6-9 MONTHS

31-01	TEMPORARY SILT FENCE	
HIEPC DETAIL I.D.	DETAIL TITLE	
	06/05/2023	NO SCALE
	REVISED DATE	SCALE

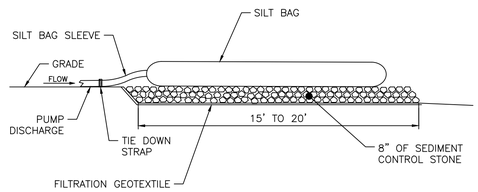


MAINTENANCE NOTES:
1. REMOVE SEDIMENT WHEN HALF OF STONE OUTLET IS COVERED.
2. REPLACE STONE AS NEEDED TO ENSURE DEWATERING.

31-02	SILT FENCE STONE FILTER OUTLET	
HIEPC DETAIL I.D.	DETAIL TITLE	
	11/1/2016	NO SCALE
	REVISED DATE	SCALE



31-14A	DROP INLET FILTER SACK	
HIEPC DETAIL I.D.	DETAIL TITLE	
	5/16/2018	NO SCALE
	REVISED DATE	SCALE



NOTES:
1. USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL STONE.
2. WOOD PALLETS MAY BE USED IN LIEU OF STONE AND GEOTEXTILE AS DIRECTED. A SUFFICIENT NUMBER OF PALLETS MUST BE PROVIDED TO ELEVATE THE ENTIRE SPECIAL STILLING BASIN ABOVE NATURAL GROUND.
3. THE SIZE AND NUMBER OF SILT BAGS SHOULD BE BASED ON THE DEWATERING PUMP AND MANUFACTURER RECOMMENDATIONS.
4. TIGHTLY SECURE THE PUMP DISCHARGE TO THE SILT BAG SLEEVE WITH A STRAP OR SIMILAR DEVICE TO PREVENT WATER/SEDIMENT FROM LEAKING WITHOUT TREATMENT.
5. CONTROL PUMPING RATE TO PREVENT EXCESSIVE PRESSURE WITHIN THE SILT BAG IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS. AS THE BAG FILLS WITH SEDIMENT, REDUCE THE PUMP RATE.
6. REPLACE THE SILT BAG WHEN HALF FULL OF SEDIMENT.

3 DETAIL – SILT BAG
NTS

no.	date	revision
A	09/06/24	ISSUE FOR BID – NOT RELEASED FOR CONSTRUCTION
B	10/11/24	ISSUED FOR CONSTRUCTION

HIGHFILL INFRASTRUCTURE ENGINEERING, P.C.
3804 Park Avenue, Unit A
Wilmington, NC 28403
Tel 910-313-1516
www.hiepc.com
Firm License No. C-2586

NORTH CAROLINA PROFESSIONAL SEAL 046286 ENGINEER JEFFREY RAY
10/11/24
ALL NOT VALID UNLESS SIGNED AND DATED

Design Elements
M. L. Sdeed (Michael), R.A., A.I.A., LEED-AP
Architectural Corporation (NC 5131)
1731 Dock Street, Suite 100
Wilmington, North Carolina 28405
910. 509. 3131

Proposed Public Works Restroom Facility for
Town of Carolina Beach
CAROLINA BEACH AVE. SOUTH – PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428

CIVIL DETAILS

job status **Contract Documents - NOT Issued for Construction**

date 08/20/2024
job no. CB/RESTRM/24
drawn by JBR
checked by JBR
drawing no. C-1.2
revision no. B

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

Name of Project: PUBLIC RESTROOM FACILITY
Address: 9 BOARDWALK AVE, CAROLINA BEACH, NC Zip Code 28428
Owner/Authorized Agent: Paula Kempton, Project Manager (Aurhorized Agent) Phone # (910) 508-4440
(Owner/Agent) E-Mail paula.kempton@carolinabeach.org
Designer of Record: Michael Saieed (aka Mitchell) RA, AIA, AIBD, LEED-AP Phone # (910) 509-3131
(Designer) E-Mail msaieed@designele.com
Owned By: ☒ City ☐ County ☐ State ☐ Private
Code Enforcement Jurisdiction: ☒ City Carolina Beach ☐ County ☐ State

LEAD DESIGN PROFESSIONAL: Michael L Saieed, RA, AIA, AIBD (aka Mitchell, Jr) (Architect of Record)

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	Design Elements	Michael Saieed	NC-8773	(910) 509-3131	msaieed@designele.com
Civil	Highfill Infrastructure	Jeffery Roy	C--	(910) 313-1516	jroy@hiepc.com
Electrical	Chetham & Assoc, PA	Mark Ciarrocca	NC-017593	(910) 452-4210	mciarrocca@cheathampa.com
Fire Alarm					
Plumbing	Chetham & Assoc, PA	Casey Gilman	NC-043164	(910) 452-4210	cgilman@cheathampa.com
Mechanical	Chetham & Assoc, PA	Kenneth Lynch	NC-017655	(910) 452-4210	klynch@cheathampa.com
Sprinkler-Standpipe					
Structural	Ardurra Group	Mark Weiss	NC-31432	(910) 397-2929	mark.weiss@ardurra.com
Retaining Walls >5' High					
Other					

"Other" should include firms and individuals such as truss, precast, (PEMB) pre-engineered, interior designers, etc

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

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

CONSTRUCTED:(date) _____ CURRENT OCCUPANCY(S) (Ch. 3): _____
RENOVATED: (date)- _____ PROPOSED OCCUPANCY(S) (Ch. 3): Public Restrooms (U- Utility)

OCCUPANCY CATGORY (Table 1604.5): CURRENT: ☐ N/A ☐ I ☐ II ☐ III ☐ IV
PROPOSED: ☐ N/A ☐ I ☒ II ☐ III ☐ IV

BASIC BUILDING DATA
Construction Type: (check all that apply) ☐ I-A ☐ I-B ☐ II-A ☒ II-B ☐ III-A ☐ III-B ☐ IV ☐ V-A ☐ V-B
Mixed construction: ☒ No ☐ Yes Types: _____
Sprinklers: ☒ N/A ☐ Yes ☐ No ☐ Partial ☒ N/A ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☐ N/A ☒ No Class ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Primary Fire District: ☐ Yes ☒ No Flood Hazard Area: ☒ Yes ☐ No
FEMA FLOOD MAP: COMMUNITY PANEL No 3720313000 K; ZONE VE-16
Special Inspections: ☒ Yes (Contact the local inspection jurisdiction for additional procedures and requirements.) ☐ No

Gross Building Area Table:

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL	SUB-TOTAL
-				
-				
SECOND FLOOR LEVEL	0 sqft	790 sqft	790 sqft	790 sqft
FIRST (GROUND) FLOOR LEVEL	0 sqft	790 sqft	790 sqft	790 sqft

Total (Fire Barrier Area) _____
Building Structure (Estimated) Gross Total Area 1,580 sqft

TOTAL GROSS SQUARE FOOT AREA (FOOTAGE / CONDITIONED (OR) NON-CONDITIONED SPACES AS DEFINED NCBC-2018 SECTION 1002): ESTIMATED (DENOTED sqft), ARE FOR CODE SUMMARY REVIEWS ONLY; NOT FOR GENERAL CONTRACTOR'S REFERENCE USE OF ACTUAL AREA "TO BUILD" CONSTRUCTION QUANTITIES

ALLOWABLE AREA:
Primary Occupancy Classification(s):
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 ☐ I-2 ☐ I-3 I-1 Condition ☐ 1 ☐ 2
I-2 Condition ☐ 1 ☐ 2
I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ Mercantile Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High Piled
☐ Parking Garage (Open) ☐ Parking Garage (Enclosed) ☐ Repair Garage
☒ Utility and Miscellaneous

Accessory Occupancy Classification(s): N/A
Incidental Uses (Table 509): N/A
Special Uses (Chapter 4 - List code Sections): _____
Special Provisions (Chapter 5 - List code Sections): _____
Mixed Occupancy: ☒ No ☐ Yes Separation 0 Hr. Exception: _____
Separated Use ☒ No ☐ Yes
☐ Non-Separated Use (508.3)
☐ 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.

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

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

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[4] AREA	(C) AREA FOR FRONTAGE INCREASE[1,5]	(E) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
1	FIRST LEVEL	790 sqft	8,500 sqft	N/A	8,500 sqft
2	SECOND LEVEL	790 sqft	8,500 sqft	N/A	8,500 sqft

Percent of frontage increase I = 100 [F/P - 0.25] x W/30 (N/A - Not Applicable to the project means)

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 =_____ (F)
b. Total Building Perimeter =_____ (P)
c. Ratio (F/P) =_____ (F/P)
d. W = Minimum width of public way =_____ (W)
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 406.5.4. The maximum area of air traffic control towers must comply with 412.3.1.
5 Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT:

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	55'	29'	.
Building Height in Stories (Table 504.4)	2	2	.

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)	RATING REQ'D	RATING PROVIDED (W/ * REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural frame, including columns, girders, trusses		0					
Bearing Walls							
Exterior		0					
North		0					
East		0					
West		0					
South		0					
Interior		N/A					
Non-bearing walls and partitions Exterior							
North	X > 30'	N/A					
East	X > 30'	N/A					
West	X > 30'	N/A					
South	10 ≥ X > 30'	0					
Interior Walls and partitions		0					
Floor construction including supporting beams and joists		0					
Floor Ceiling Assembly		0					
Columns supporting Floors		N/A					
Roof construction including supporting beams and joists		0					
Roof Ceiling Assembly		0					
Columns supporting Roof		N/A					
Shaft Enclosures - Exit		N/A					
Shaft Enclosures - Other		N/A					
Corridor Separation		N/A					
Occupancy/Fire Barrier Separation		N/C					
Party/Fire Barrier Separation		–					
Smoke Barrier Separation		–					
Smoke Partition		–					
Tenant/Dwelling Unit Sleeping Unit Separation		–					
Incidental Use Separation							

*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 (%)
5 to less than 10	Unprotected/Non Sprinklered	10%	
15 or greater facing street	Unprotected/Non Sprinklered	No Limit	
30 or greater	Unprotected/Non Sprinklered	No Limit	North, East, South & West walls: No Limit

LIFE SAFETY SYSTEM REQUIREMENTS:
Emergency Lighting: ☐ No ☒ Yes
Exit Signs: ☒ No ☐ Yes
Fire Alarm: ☒ No ☐ Yes
Smoke Detection Systems: ☒ No ☐ Yes ☐ Partial
Panic Hardware: ☒ No ☐ Yes

LIFE SAFETY SYSTEM REQUIREMENTS:
Life Safety Plan Sheet #: G101

N/A ☐ Fire and/or smoke rated wall locations (Chapter 7)
N/A ☐ Assumed and real property line locations (if not on the site plan)
N/A ☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
N/A ☐ 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))
N/A ☐ 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
N/A ☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
N/A ☐ Location of doors with panic hardware (1010.1.10)
N/A ☐ Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
N/A ☐ Location of doors with electromagnetic egress locks (1010.1.9.9)
N/A ☐ Location of doors equipped with hold-open devices
N/A ☐ Location of emergency escape windows (1030)
N/A ☐ The square footage of each fire area
N/A ☐ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
N/A ☐ Note any code exceptions or table notes that may have been utilized regarding the items above

EXIT REQUIREMENTS
NUMBER AND ARRANGEMENT OF EXITS

FLOOR, ROOM OR SPACE DESIGNATION	MINIMUM[2] NUMBER OF EXITS REQ'D	MINIMUM[2] NUMBER OF EXITS SHOWN ON PLANS	TRAVEL DISTANCE ALLOWABLE TRAVEL DISTANCE (TABLE 1017.2) (TABLE 1006.2.1)	TRAVEL DISTANCE ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	ARRANGEMENT MEANS OF EGRESS[1,3] (SECTION 1007.1) REQUIRED DISTANCE BETWEEN EXIT DOORS	ARRANGEMENT MEANS OF EGRESS[1,3] (SECTION 1007.1) ACTUAL DISTANCE SHOWN ON PLANS
1ST FLR WOMEN RESTROOM	1	1	75 FT	32 FT	N/A	N/A
1ST FLR MEN RESTROOM	1	1	75 FT	33 FT	N/A	N/A
2ND FLR WOMEN RESTROOM	1	1	75 FT	31 FT	N/A	N/A
2ND FLR MEN RESTROOM	1	1	75 FT	35 FT	N/A	N/A

1 Corridor dead ends (Section 1020.4)
2 Single exits (Table 1006.3.2), Spaces with one means of egress (Table 1006.2.1)
3 Common Path of Travel (Section 1006.2.1)

EXIT WIDTH

USE GROUP OR SPACE DESCRIPTION	(a) AREA[1] SQ. FT.	(b) AREA[1] PER OCCUPANT (TABLE	(c) CALCULATED OCCUPANT LOAD (a / b)	(d) EGRESS WIDTH PER OCCUPANT (1005.3) STAIR	(d) EGRESS WIDTH PER OCCUPANT (1005.3) LEVEL	EXIT WIDTH (in)[2, 3, 4, 5, 6] REQUIRED WIDTH (SECTION 1005.3) (c x d) STAIR	EXIT WIDTH (in)[2, 3, 4, 5, 6] REQUIRED WIDTH (SECTION 1005.3) (c x d) LEVEL	ACTUAL WIDTH SHOWN ON PLANS STAIR	ACTUAL WIDTH SHOWN ON PLANS LEVEL
1ST WOMEN RESTROOM	259 sf	50 gross	6	.3	.2	–	1.2"	–	34"
1ST MEN RESTROOM	230 sf	50 gross	5	.3	.2	–	1"	–	34"
2ND WOMEN RESTROOM	259 sf	50 gross	6	.3	.2	–	1.2"	–	34"
2ND MEN RESTROOM	239 sf	50 gross	5	.3	.2	–	1"	–	34"
BUILDING TOTAL (B-OCC)			22						

1 See Table 1004.1.2 to determine whether net or gross area is applicable. See definition "Floor Area, Gross" and "Floor Area, Net" (Section 202)
2 Minimum stairway width (Section 1011.2); min. corridor width (Section 1020.2); min. door width (Section 1010.1.1)
3 Minimum width of exit passageway (Section 1024.2)
4 See Section 1005.6 for converging exits.
5 The loss of one means of egress shall not reduce the available capacity to less than 50 percent of the total required width (Section 1005.5)
6 Assembly occupancies (Section 1029)

PLUMBING FIXTURE REQUIREMENTS:
(TABLE 2902.1)

	USE		WATER CLOSETS		URINALS	LAVATORIES		SHOWERS/ TUBS	DRINKING FOUNTAINS		SERVICE SINK
	Grp Type	Occupancy Load	MALE	FEMALE		MALE	FEMALE		REGULAR	ACCESSIBLE	
REQUIRED	U	11(M)/11(F)	1	1	.	1	1	.	1	1	1
PROVIDED	U	11(M)/11(F)	6	10	4	4	4	.	2	2	2

ACCESSIBLE DWELLING UNITS: (SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
N/A							
.	.	.	.	.	.	.	.

ACCESSIBLE PARKING: (SECTION 1106)
(SEE CIVIL DRAWINGS FOR CONTINUATION OF "BUILDING CODE SUMMARY")

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	TOTAL # OF PARKING SPACES PROVIDED	# OF ACCESSIBLE SPACES PROVIDED REGULAR WITH 5' ACCESS AISLE	# OF ACCESSIBLE SPACES PROVIDED VAN SPACES WITH 132" ACCESS AISLE	# OF ACCESSIBLE SPACES PROVIDED VAN SPACES WITH 8' ACCESS AISLE	TOTAL # ACCESSIBLE PROVIDED
UTILITY	N/A	–			–	–
TOTAL LOT	N/A	–			–	–

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

DESIGN LOADS SUMMARY
(SEE STRUCTURAL DRAWINGS FOR CONTINUATION OF "BUILDING CODE SUMMARY")
ENERGY SUMMARY
(SEE MECHANICAL DRAWINGS FOR CONTINUATION OF "BUILDING CODE SUMMARY")
ELECTRICAL SYSTEM AND EQUIPMENT
(SEE ELECTRICAL/MECHANICAL DRAWINGS FOR CONTINUATION OF "BUILDING CODE SUMMARY")
MECHANICAL SUMMARY
(SEE MECHANICAL DRAWINGS FOR CONTINUATION OF "BUILDING CODE SUMMARY")

ENERGY SUMMARY
ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.
Existing building envelope complies with code: ☐ Yes (The remainder of this section is not applicable) ☐ No
Exempt Building : ☒ Yes Provide code or statutory reference: C101.2 exception 2 (non-conditioned "U" (UTILITY) occupancy) ☐ No
Climate Zone: ☐ N/A ☒ 3A ☐ 4A ☐ 5A ☐ ASHRAE 90.1 – Performance
Method of Compliance: ☐ Energy Code – Performance ☐ ASHRAE 90.1 – Prescriptive
☐ Energy Code – Prescriptive ☐ Other – Performance (If "Other" specify source here) _____

2018 NCBC Section 510
Emergency Responder Radio Coverage; an approved radio coverage for emergency responders shall be provided within the proposed building.

Per Authority Having Jurisdiction "Carolina Beach Fire Chief", 2-way communication system shall not be necessary for proposed project.

no.	date	revision
A	05/21/24	PROGRESS REVIEWS AND COMMENTS FOR APPROVAL
B	07/3/24	PROGRESS REVIEWS AND COMMENTS FINAL APPROVAL
C	9/9/24	ISSUED FOR PRE-BID – NOT FOR CONSTRUCTION
0	9/13/24	IFC-CODE ENFORCER REVIEW AND APPROVAL FOR PERMIT

THIS SHEET SHOWS BASIC DRAFTING STANDARDS

TOWN OF CAROLINA BEACH NORTH CAROLINA

Digitally signed by Michael L. Saieed, Jr. RA AIA (aka Mitchell)
DN: cn=Michael L. Saieed, Jr. RA AIA (aka Mitchell), o=Design Elements, ou=Architect of Record - NC Lic 8773, email=msaieed@designele.com, c=US
Date: 2024.09.16 15:50:29 -04'00'

Design Elements
M. L. Saieed (Michael), RA, AIA, LEED-AP
Architectural Corporation (NC 01371)
Carolina Beach Office: 910 707 1177
Wilmington, North Carolina 28405
910. 509. 3131

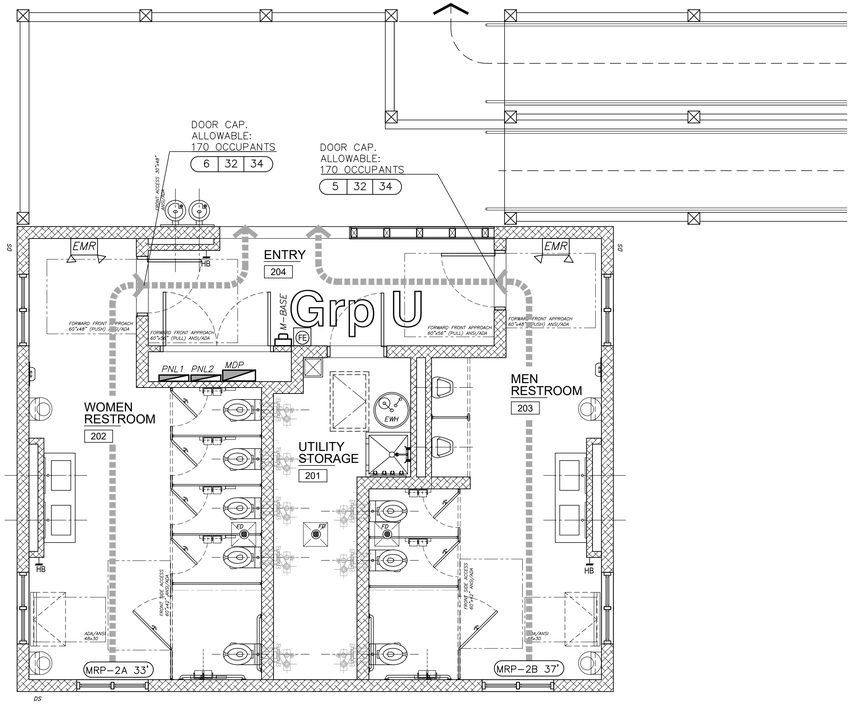
9/13/2024

LEE SAIEED JR. M. CHEL BACCA ARCHITECT REGISTERED PROFESSIONAL SEAL NORTH CAROLINA 04

Proposed Public Restroom Facility for Town of Carolina Beach
CAROLINA BEACH AVE. SOUTH – PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428
BUILDING CODE SUMMARY
job status **Contract Documents - Issue for Construction**

date 03 MAY 24
job no. CB/RESTRM/24
drawn by MLS/SGH
checked by MSAIEED
drawing no. G101
revision no. 0

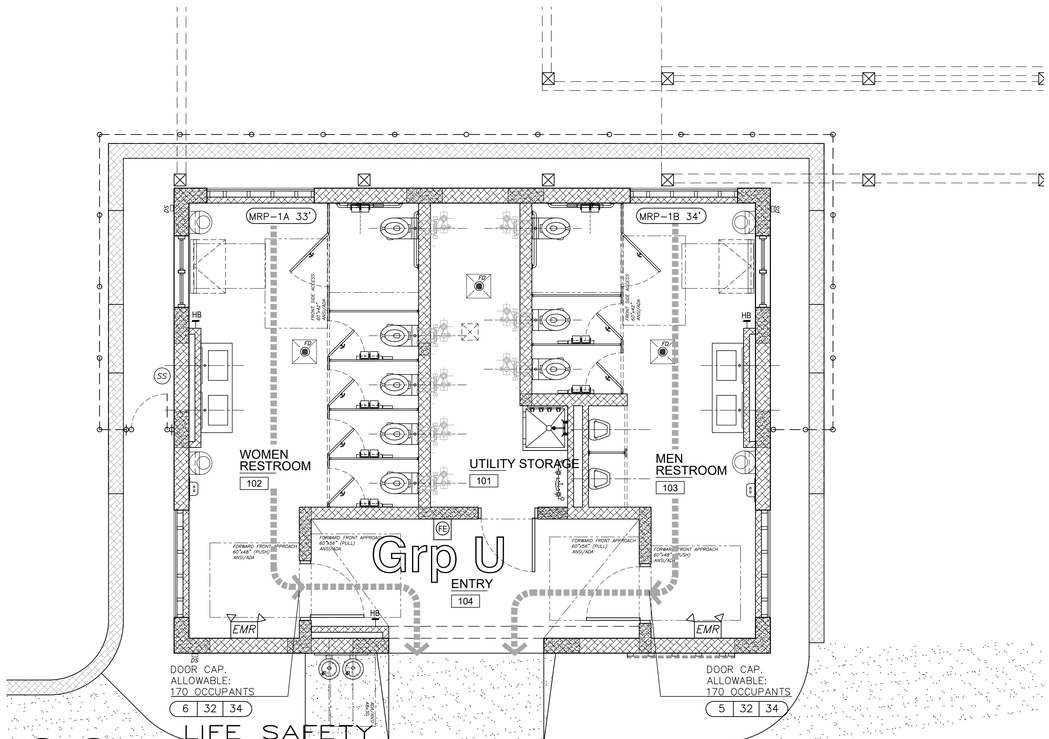
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SITE NORTH PLAN NORTH

2 G102 LIFE SAFETY SECOND (BEACH STRAND) FLOOR PLAN

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



SITE NORTH PLAN NORTH

1 G102 LIFE SAFETY GROUND (FIRST) FLOOR PLAN

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

GRAPHIC BAR SCALE: (FOOT UNITS)

0 2 4 10
1 3 5

LIFE SAFETY PLAN REFERENCE KEY

- WIDTH PROVIDED / EXIT (IN.)
- WIDTH REQUIRED / EXIT (IN.)
- TOTAL NO. PERSONS / EXITING

22 — TOTAL NUMBER OF (ACTUAL ASSIGNED) PERSONS EXITING BUILDING (OR) OCCUPIED SPACES (BY DESIGN/PROGRAMMING)

MRP — CPT — TRAVEL DISTANCE (FT)

COMMON PATH TRAVEL

MOST REMOTE POINT

POINT OF ORIGIN (MOST REMOTE POINT)

GENERAL LIFE SAFETY FLOOR PLAN KEYNOTES

REFERENCE FOR THIS SHEET

GENERAL ARRANGEMENT OF ARCHITECTURAL SCHEMATIC "LIFE SAFETY FLOOR PLAN" SHALL ONLY BE REFERENCED FOR COMPLIANCE WITH THE 2018 IBC/NCBC "APPENDIX B:" GENERAL BUILDING CODE DATA SUMMARY MATRIX;

01 BUILDING PREMISES IDENTIFICATION (PHYSICAL ADDRESS)
PROVIDE AN APPROVAL (ASSIGNED BY LOCAL AUTHORITY HAVING JURISDICTION) STREET ADDRESS NUMBER; WALL MOUNTED TO EXTERIOR BUILDING FACADE AND POSITION TO BE PLAINLY LEGIBLE AND VISIBLE FORM THE STREET (OR) ROAD FRONTING THE PROPERTY LINE (PUBLIC ACCESS WAY) BUILDING ADDRESS NUMBERS SHALL BE CONTRASTING WITH THE FINISHED BUILDING FACADE (BACKGROUND SIDING). BUILDING ADDRESS CHARACTERS SHALL BE "ARABIC (OR) ALPHABETICAL LETTERS" AT (MIN) 6" HEIGHT WITH A (MIN) STROKE WIDTH 3/4"; SECURE ADDRESS CHARACTERS WITH APPROPRIATE NON-CORROSIVE FASTENERS,

LEGEND

FE — PLASTIC FIRE EXTINGUISHER CABINET; HIGH-IMPACT FIBERGLASS; (SIM. MANUF: JL INDUSTRIES; MODEL 1353D12)

FB SERIES SURFACE-MOUNT FIBERGLASS FIRE EXTINGUISHER CABINET;
CONSTRUCTION: TUB AND DOOR CONSTRUCTED OF FIBERGLASS WITH FULL RUBBER-GASKETED DOOR, 6"X 9"ACRYLIC VIEW WINDOW WITH RUBBER GASKET SEAL, AND CORROSION-RESISTANT ALUMINUM HANDLE. FULL-LENGTH STAINLESS STEEL HINGE ATTACHED BY RIVETS.
DOOR: DOOR TIGHTLY LATCHES AGAINST THE GASKET BY (2) STAINLESS STEEL SNAP LATCHES AND INCLUDES 5"X 9" FIRE EXTINGUISHER LETTERING ON THE DOOR.
FINISH: UV-RESISTANT, HIGH-VISIBILITY RED FINISH.

PROVIDE FIRE EXTINGUISHER PORTABLE UNIT W/ LEVER HEIGHT SET AT 42" A.F.F. APPROXIMATE LOCATION SHOWN (MULTI-PURPOSE CARBON DIOXIDE (MIN. 5lb OR GREATER) CLASS TYPE ABC); PROPOSED LOCATION PER EXTINGUISHER: MINIMUM FLOOR AREA COVERAGE: 11,250 sqft; AT (MAX. 75'-0" DIAMETER); TRAVEL DISTANCE AND ADJACENT TO NEAREST EXIT ACCESS POINT

EMR — (PROPOSED) PROVIDE DEDICATED DIRECTIONAL BUILDING ACCESSIBLE MEANS OF EGRESS EMERGENCY OVERHEAD LIGHT SURFACE WALL (OR) CEILING MOUNTED (ACCESSIBLE PATHWAY LIGHTING W/ 90-MINUTE EMERGENCY BATTERY BACKUP) ADJUSTABLE (TWO) HEADS LED LIGHTING (REFERENCE: LATEST EDITION NEC NATIONAL ELECTRICAL CODE FOR ADDITIONAL DETAILED FIXTURE REQUIREMENTS), REFERENCE ELECTRICAL ENGINEER'S DRAWINGS FOR APPROXIMATE REQUIRED QUANTITIES, ALLOWABLE DISTANCE AND LOCATION) (OPTIONAL: STANDARD OVERHEAD LIGHTING FIXTURE WITH ALTERNATE EMERGENCY BATTERY BACK-UP SYSTEM AS NOTED ABOVE; REFERENCE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION)

ASSUMED PATH OF TRAVEL (LESS THAN 300ft) TO DEDICATED MULTIPLE ACCESSIBLE MEANS OF EGRESS "EXIT POINTS"; (OR) ASSUMED MOST REMOTE PATH (MRP) OF TRAVEL; (LESS THAN 100ft) FROM A SINGLE OCCUPIED SPACE TO DEDICATED SINGLE (ALLOWABLE) ACCESSIBLE MEANS OF EGRESS "EXIT." (ACCEPTABLE MINIMAL 36" CLEAR ACCESSIBLE PATHWAY WIDTH)

SIGN- WALL MOUNTED (DOOR MOUNTED IF NOT APPLICABLE) IDENTIFICATION SIGNAGE (SEE SIGNAGE DETAIL SHEET B/N100)

no.	date	revision	C	9/9/24	ISSED FOR PRE-BID – NOT FOR CONSTRUCTION
A	05/21/24	PROGRESS REVIEWS AND COMMENTS FOR APPROVAL	0	9/13/24	IFC-CODE ENFORCER REVIEW AND APPROVAL FOR PERMIT
B	07/3/24	PROGRESS REVIEWS AND COMMENTS FINAL APPROVAL			

THIS SHEET SHOWS BASIC DRAFTING STANDARDS

TOWN OF CAROLINA BEACH NORTH CAROLINA

Digitally signed by Michael L. Saieed, Jr. RA AIA (aka Mitchell)
DN: cn=Michael L. Saieed, Jr. RA AIA (aka Mitchell), o=Design Elements, ou=Architect of Record - NC Lic 8773, email=msaieed@designele.com, c=US
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9/13/2024

MICHELL LEE SAIEED JR. NC REGISTERED ARCHITECT

Proposed Public Restroom Facility for
Town of Carolina Beach
CAROLINA BEACH AVE, SOUTH – PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428

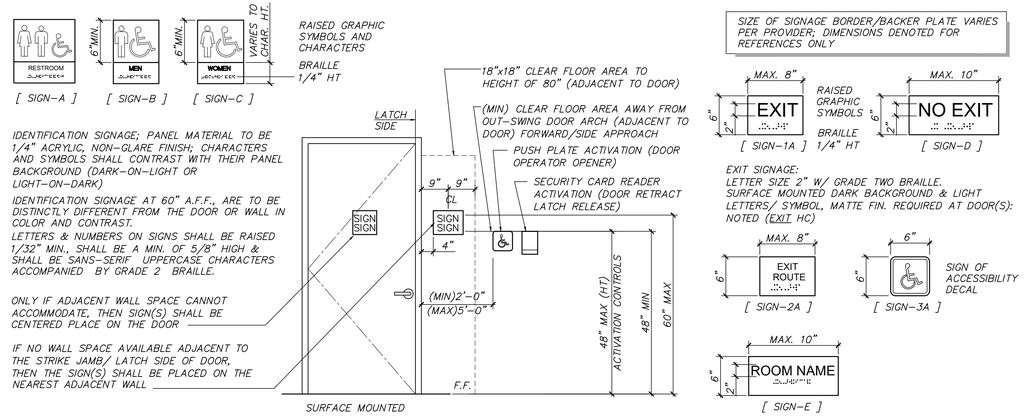
FIRST AND SECOND FLOOR LIFE SAFETY PLANS

job status **Contract Documents - Issue for Construction**

date	03 MA7 24
job no.	CB/RESTRM/24
drawn by	MLS/SGH
checked by	MSAIEED
drawing no.	G102
revision no.	0

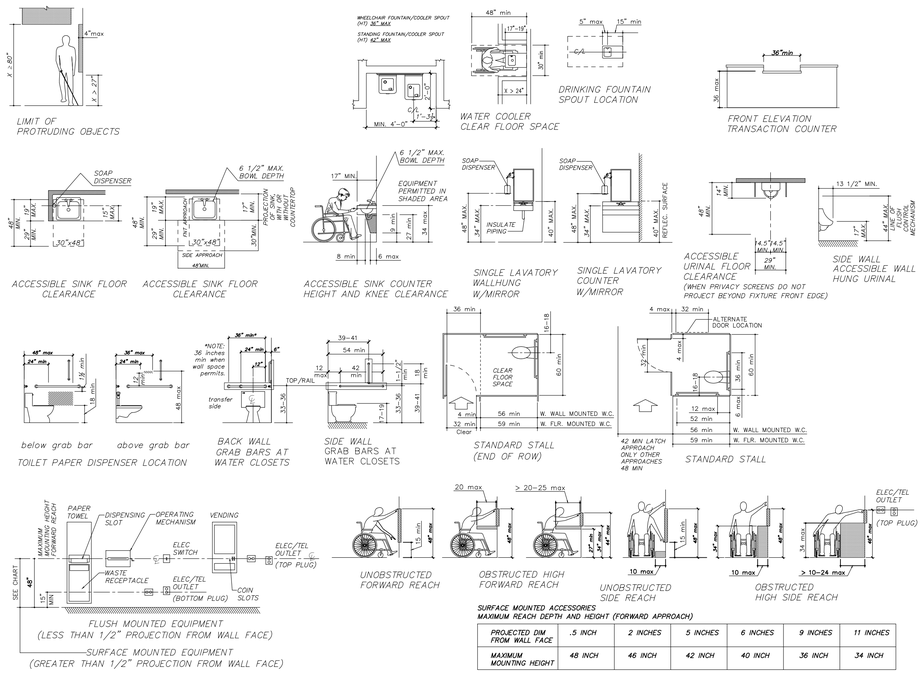
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A	05/21/24	PROGRESS REVIEWS AND COMMENTS FOR APPROVAL		
B	07/3/24	PROGRESS REVIEWS AND COMMENTS FINAL APPROVAL		



B N100 TACTILE SIGN DETAILS

NOT TO SCALE:

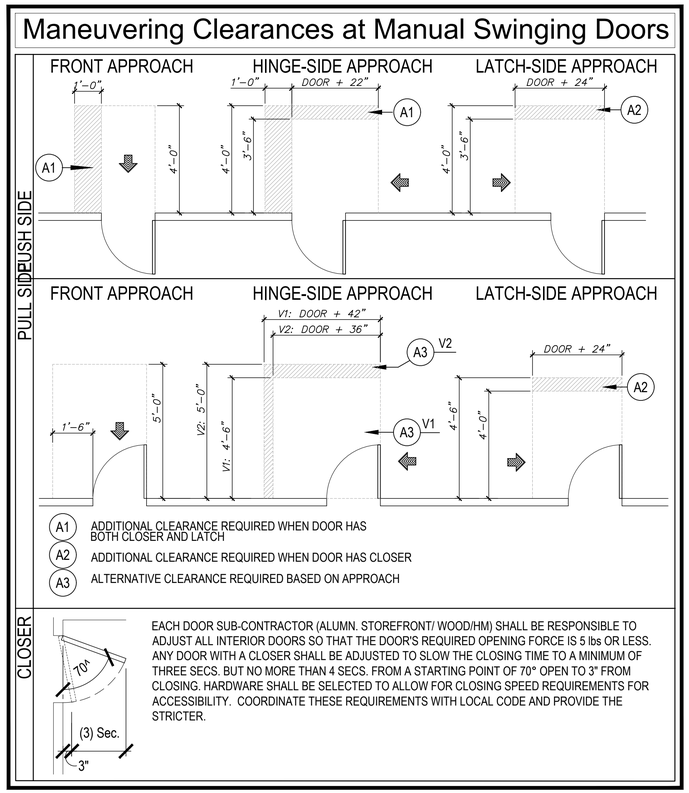


DENOTED REFERENCE SKETCHES INDICATES AREA REQUIREMENTS FOR NEEDED SOLID BLOCKING (OR) SHEET METAL CROSS FRAMING FOR WALL MOUNTED ACCESSORY ITEMS ACCESSIBLE FOR PERSONS WITH DISABILITIES. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ADEQUATE STABLE BLOCKING TO RESIST 250 POUNDS VERTICALLY AND LATERALLY.

A N100 TYPICAL REFERENCES for (ANSI/ADAAG (HC) ACCESSIBILITY CLEARANCES

NOT TO SCALE

Maneuvering Clearances at Manual Swinging Doors



EACH DOOR SUB-CONTRACTOR (ALUMN. STOREFRONT/ WOOD/HM) SHALL BE RESPONSIBLE TO ADJUST ALL INTERIOR DOORS SO THAT THE DOOR'S REQUIRED OPENING FORCE IS 5 lbs OR LESS. ANY DOOR WITH A CLOSER SHALL BE ADJUSTED TO SLOW THE CLOSING TIME TO A MINIMUM OF THREE SECS. BUT NO MORE THAN 4 SECS. FROM A STARTING POINT OF 70° OPEN TO 3" FROM CLOSING. HARDWARE SHALL BE SELECTED TO ALLOW FOR CLOSING SPEED REQUIREMENTS FOR ACCESSIBILITY. COORDINATE THESE REQUIREMENTS WITH LOCAL CODE AND PROVIDE THE STRICTER.

GRAPHIC REFERENCES for (ANSI/ADAAG (HC) ACCESSIBILITY INGRESS AND EGRESS CLEARANCES

B N100

NOT TO SCALE

GENERAL ACCESSIBILITY REQUIREMENTS

THE REAL PROPERTY BUILDING OWNER AND GENERAL CONTRACTOR SHALL INSURE THAT THIS FACILITY SHALL BE "BARRIER FREE" ACCESSIBLE TO AND USABLE BY PERSON(S) WITH DISABILITIES. ACCORDING TO THE LATEST EDITION TO THE ICC-IBC/NCBC 2018 CHAPTER 11 GENERAL CONSTRUCTION IN ADDITION TO THE CURRENT RECOGNIZED 2009 EDITION OF THE AMERICAN NATIONAL STANDARD "ACCESSIBILITY CODE" ANSI A117.1, AND DEPARTMENT OF JUSTICE (DOJ) "2010 ADAAG STANDARDS FOR ACCESSIBLE DESIGN" (MARCH 2012 REVISIONS) FOR ACCESSIBILITY CODES REQUIREMENTS OF ALL THE APPLICABLE STANDARDS. THE FOLLOWING IS A PARTIAL LIST (BUT NOT LIMITED TO) FOR PROPOSED "BUILDING SHELL" INGRESS AND EGRESS" REQUIREMENTS. (REFERENCE A/N100 FOR ADDITIONAL GRAPHIC DETAILS AND GENERAL NOTATIONS)

1. OPERABLE / FIXED DOOR HARDWARE: SHALL BE (TOP OF DOOR HANDLE) MOUNTED BETWEEN 34"(MIN.) AND 47"(MAX.) ABOVE FLOOR OR GROUND LEVEL AND LEVER HANDLES (TYPE STYLE W/ END RETURN), (OR IF APPLICABLE: LOW RIM PUSH CROSSBAR) PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRED TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. WHEN SLIDING DOORS ARE FULLY OPEN, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES; WHERE DENOTED: EXIT/PANIC DEVICES SHALL BE PUSH/TOUCH BAR EXTENDING MINIMAL 50 PERCENT THE WIDTH OF THE DOOR PANEL. ALL SHALL BE "ARCHITECTURAL BARRIER FREE" ACCESSIBLE FOR PERSONS W/ DISABILITIES (REFERENCE: DOJ ANSI/ADAAG GUIDELINES (OR) US ACCESS BOARD).

2. TOILETS ROOMS & ACCESSORIES:

A. LAVATORY TO HAVE LEVER HANDLES, SPRING FAUCETS OR SELF METERING FAUCETS.

B: A COAT HOOK 48" ABOVE THE FLOOR SHALL BE MOUNTED ON THE BACK SIDE OF THE HANDICAPPED STALL DOOR (or) BACK OF ENTRY DOOR.

C. LOCATE THE WATER CLOSET (MIN.) 16.6" TO (MAX) 17.5" FROM THE CENTER LINE OF THE FIXTURE TO THE FINISHED WALL SURFACE. THE SEAT WILL BE 17" TO 19" ABOVE THE FLOOR TO THE TOP OF SEAT. TANK TYPE FLUSH LEVER SHALL BE POSITION TOWARD (SIDE APPROACH) ACCESSIBLE CLEAR FLOOR AREA FOR SIDE REACH

D. PROVIDE ONE 42" AND ONE 36" LONG x 1 1/2" OUTSIDE DIAMETER PEENED GRAB BARS, 1 1/2" FROM THE WALL, WITH (36) BEHIND TOILET AT 6" FROM THE WALL, AND (42) ADJACENT TO AT 12" FROM THE WALL AND CENTERLINE MEASURED 33"-36" PARALLEL TO AND ABOVE THE FLOOR. PROVIDE ADDITIONAL SIMILAR 18" VERTICAL PULL BAR 1-1/2" ABOVE HORIZONTAL SIDE BAR CENTERLINE MEASURED AVE. 39"-41" FROM REAR WALL.

E. LAVATORY TO BE MOUNTED 34" (MAX.) ABOVE THE FINISHED FLOOR TO RIM WITH CLEAR FLOOR KNEE SPACE OF 30" IN WIDTH AND 27" IN CLEAR HEIGHT. (29" CLEAR UNDER FRONT EDGE). EXPOSED WATER/WASTE PLUMBING SHALL BE CLEAR OF ACCESSIBLE FLOOR AREA AND PROTECTED WITH PROPRIETARY VENDOR SUPPLIED "VINYL INSULATED PROTECTION COVERS" SHALL BE PROVIDED TO EACH SERVICE LINE (SIM. MFG. "TRUEBRO")

F. INSTALL MIRROR 40"(MAX.) ABOVE THE FINISHED FLOOR (BOTTOM FIN. EDGE) AND (72" TOP FIN. EDGE).

GENERAL NOTES
(SEE ADDITIONAL REFERENCES FOR REQUIRED "IN-WALL" BLOCKING)

TYPICAL RESTROOMS (PRIMARY AND SECONDARY USES) ARE DESIGNED IN REFERENCE TO CURRENT RECOGNIZED 2009 EDITION OF THE AMERICAN NATIONAL STANDARD "ACCESSIBILITY CODE" ANSI A117.1, AND DEPARTMENT OF JUSTICE (DOJ) "2010 ADAAG STANDARDS ARCHITECTURAL "BARRIER FREE" DESIGN (GRAPHIC) GUIDELINES FOR PERSONS WITH DISABILITIES " (MARCH 2012 REVISIONS). GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE AND PRE-FRAME WITH BLOCKING FOR SUPPORTING WALL MOUNTED HARDWARE ACCESSORIES NEEDED FOR PERSONS WITH DISABILITIES.

ALL GRAB BARS ACCESSORIES, AND THEIR FASTENERS SHALL BE CAPABLE OF SUPPORTING A 250 POUND LOAD APPLIED IN ANY DIRECTION, ANYWHERE ALONG ITS LENGTH.

PROVIDE HORIZONTAL GALV. SHEET METAL STRIPPING (MIN 54mils 16ga) CROSS WIDTH TO END/WALL STUD EDGES (OR) 2x WOOD BLOCKING FLUSH TO END/WALL STUD EDGES FOR SECURING INDICATED WALL MOUNT ACCESSORIES; CONTRACTOR TO REFERENCE MILLWORK SHOP DRAWINGS AND TOILET ACCESSORIES LOCATIONS FOR RECOMMENDED MOUNTING HEIGHTS

THIS SHEET SHOWS BASIC DRAFTING STANDARDS

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01/ 13/2024

MICHAEL LEE SAIEED JR. ON 10/01/2024

Proposed Public Restroom Facility for
Town of Carolina Beach
CAROLINA BEACH AVE. SOUTH - PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428

ACCESSIBILITY DETAILS, SYMBOLS AND LEGENDS

Contract Documents - Issue for Construction

job status

date	03 MA7 24
job no.	CB/RESTRM/24
drawn by	MLS/SGH
checked by	MSAIEED

drawing no. N100

revision no. 0

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GENERAL CONDITIONS

1. THE USE OF THESE DOCUMENTS ARE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED. REUSE OR REPRODUCTION OF THE DOCUMENTS (IN WHOLE OR IN PART) FOR ANY OTHER PURPOSE IS PROHIBITED

2. GENERAL CONTRACTOR AND ASSOICATED TRADES (SUB-CONTRACTORS) SHALL BE FAMILIAR WITH ALL LOCAL ZONING CRITERIA, SPECIAL WORKING CONDITIONS PERTAINING TO ALL BARRICADES, NOISE, DUST, TRASH REMOVAL, ETC. COORDINATE WITH LOCAL AUTHORITIES HAVING JURISDICTION. ANY WORK THAT IS REQUIRED TO TAKE PLACE AT NIGHT OR DURING OFF HOURS SHALL BE VERIFIED WITH GENERAL CONTRACTOR'S PROJECT MANAGER AND ITS COST TO BE INCLUDED IN THE BID.

3. THE GENERAL CONTRACTOR SHALL PROTECT NEWLY INSTALLED MATERIALS, MILLWORK, BUILT-INS AND FINISHES. PROTECT PUBLIC AREAS NOT UNDERGOING WORK, ADJOINING AREAS FROM ANY DAMAGE WHICH MAY ARISE FROM THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING FOR ANY DAMAGE ARISING FROM HIS WORK.

4. THE GENERAL CONTRACTOR SHALL FURNISH ALL TEMPORARY UTILITIES REQUIRED TO PERFORM THEIR WORK INCLUDING BUT NOT LIMITED TO ELECTRICITY, WATER, HEAT, AND TELEPHONE (OR SITE SUPERINTENDENT W/ CELLULAR PHONE). THE CONTRACTOR SHALL MAINTAIN AT THEIR COST A JOB PHONE, AND ON SITE OFFICE AREA PROPERLY SECURED.

5. THE GENERAL CONTRACTOR SHALL MAINTAIN AT THE SITE A WORKING DOCUMENT PRINT SET (IF NOT PRESENTED OTHERWISE WITHIN CONSTRUCTION DOCUMENT SET) AND PROPRIETARY MANUFACTURERS' SHOP DRAWINGS AND SPECIFICATIONS THAT SHALL BE UPDATED AS WORK PROGRESSES, INDICATING ANY CHANGES, DEVIATIONS, OR ALTERATIONS AND SHALL PROVIDE A REVISED SET DENOTED AS "RECORD DOCUMENTS" DRAWINGS TO BE TURNED OVER TO THE OWNER(S) AT THE COMPLETION OF WORK.

6. THE GENERAL CONTRACTOR SHALL DILIGENTLY PERFORM THE WORK TO COMPLETION AND SHALL AT ALL TIMES GIVE THE PERSONAL SUPERVISION AND ATTENTION THERETO AND MAINTAIN A COMPETENT SUPERINTENDENT AND NECESSARY FOREMAN TO ACT FOR THE CONTRACTOR'S FIRM. PROVIDE SUFFICIENT AND SATISFACTORY ON-SITE WORKERS REQUIRED TO ENSURE THE PERFORMANCE OF THE WORK TO COMPLETION AND TO MEET AGREED UPON TURNOVER DATE.

7. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR LAYOUT AND FOR THAT OF THEIR TRADE SUB-CONTRACTORS. ALL DIMENSIONS INDICATED AS HOLD DIMENSIONS SHALL BE MAINTAINED. ANY VARIANCES FROM THESE WILL BE AT THE RISK OF THAT TRADE OR CONTRACTOR. VERIFY ANY EQUIPMENT CLEARANCES PRIOR TO LAYOUT, THE TRADES SHALL BE HELD LIABLE FOR ANY DAMAGE TO OR ADDITIONAL COST FOR FAILURE TO DO SUCH LAYOUT. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR SHALL VERIFY ALL OVERALL DIMENSIONS, COLUMN LOCATIONS AND REPORT THESE TO THE ARCHITECT. THE GENERAL CONTRACTOR SHALL COORDINATE THE WORK OF THEIR ON-SITE WORKERS WITH TRADE SUB CONTRACTORS, AND OWNER. ANY FAILURE TO PROPERLY COORDINATE WHICH RESULTS IN ADDITIONAL COST INCLUDING ANY DEMOLITION OF CONSTRUCTION IN PLACE SHALL BE BOURNE BY THE GENERAL CONTRACTOR.

8. THE GENERAL CONTRACTOR SHALL OBTAIN, MAINTAIN DURING THE COURSE OF WORK WORKMAN'S COMPENSATION, COMPREHENSIVE LIABILITY INSURANCE INCLUDING COVERAGE FOR BODILY INJURY, PROPERTY DAMAGE, IN ACCORDANCE WITH THE OWNER(S), AND LOCAL REQUIREMENTS. LAWS OF THE STATE AND AS DIRECTED BY THE OWNER(S), PROVIDE EVIDENCE INDICATING INDEMNIFICATION OF THE OWNER(S) AND ARCHITECT. THE GENERAL CONTRACTOR SHALL BEAR THE RISK OF LOSS AND RESPONSIBILITY OF ALL INJURIES OR DAMAGES TO PERSONS OR PROPERTY THAT MAY ARISE FROM THE WORK. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THEFT OF TOOLS, MATERIALS AND EQUIPMENT STORED ON OR OFF THE SITE. ANY ADDITIONAL SINGLE PROJECT SPECIFIC INSURANCE REQUIREMENTS OR INDEMNIFICATION COSTS, SHALL BE BORNE BY THE GENERAL CONTRACTOR.

9. GENERAL CONTRACTOR SHALL GUARANTEE ALL WORK INCLUDING WORK PERFORMED BY TRADE SUB-CONTRACTOR'S FOR A PERIOD OF ONE (1) YEAR COMMENCING WITH THE DATE OF TOTAL COMPLETION (PUNCH LIST) OF THE WORK. FURNISH ALL WRITTEN WARRANTIES TO OWNERS REPRESENTATIVES PRIOR TO SUBMISSION OF FINAL PAYMENT.

10. WARRANTIES AND GUARANTEES: IN ADDITION TO OTHER GUARANTEES HEREIN REQUIRED, GENERAL CONTRACTOR HEREBY GUARANTEES THAT AT DELIVERY TO THE OWNER(S) FOR ACCEPTANCE THE WORK TO BE PERFORMED UNDER THIS AGREEMENT, THE SAME SHALL BE IN PROPER FUNCTIONAL ORDER WITHOUT FAILURE, AND THERE SHALL BE NO OMISSION OF OR DEFECT IN MATERIAL OR WORKMANSHIP OF ANY WORK, MACHINERY, EQUIPMENT, PARTS, ASSEMBLIES (EXCEPT THOSE FURNISHED BY OWNER AND OWNER'S SPECIALTY EQUIPMENT VENDOR) AND THAT ALL LABOR, THE AFOREMENTIONED MATERIALS AND ALL OTHER ITEMS SHALL COMPLY WITH THE AGREEMENT. IF ANY DEFECTIVE OR FAULTY WORKMANSHIP OR MATERIAL IS DISCOVERED WITHIN ONE (1) YEAR COMMENCING FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK, THE SAME SHALL BE PROMPTLY REMEDIED, REPLACED AND RESTORED TO THE OWNER'S SATISFACTION BY THE GENERAL CONTRACTOR AT THE GENERAL CONTRACTOR'S EXPENSE.

11. ANY ADDITIONAL WORK, CHANGES, ADDITIONAL SERVICES OR FEES SHALL NOT OCCUR OR BE PROVIDED WITHOUT WRITTEN CONFIRMATION OF THE (OWNER) PRIOR TO EXECUTION. FAILURE TO DO SO SHALL RESULT IN NO PAYMENT BY THE OWNER(S) OR THEIR REPRESENTATIVES FOR SUCH ITEMS.

12. THE ENTIRE AREA OF WORK IS TO BE MAINTAINED IN A NEAT AND ORDERLY MANNER AT ALL TIMES AND POLICED AT INTERVALS TO PREVENT ACCUMULATION OF TRASH AND RUBBISH. ALL MATERIALS SHALL BE STACKED NEATLY IN CENTRAL LOCATIONS AND COORDINATE IT'S DISPOSAL LOCATION WITH THE GENERAL CONTRACTOR'S SUPERINTENDENT. GENERAL CONTRACTOR AND TRADE SUB-CONTRACTORS MUST LEAVE THEIR WORK IN A NEAT AND CLEAN CONDITION READY FOR WORK TO BE PERFORMED BY OTHERS. PROVIDE DUMPSTER AS REQUIRED.

13. CLEAN UP AND JOB COMPLETION.
    - A. ALL PUNCH LIST ITEMS SHALL BE COMPLETED WITH THE SATISFACTION OF [BUILDING OWNER(S)] REPRESENTATIVE BEFORE FINAL PROJECT RELEASE WITH A WRITTEN ACCEPTANCE BETWEEN CONTRACTOR AND OWNER(S)
    - B. PREMISES TO BE TURNED OVER CLEAR OF ALL DEBRIS, PACKING BOXES, WRAPPINGS, AND EXCESS MATERIALS.
    - C. ALL GLASS TO BE CLEANED OF PROTECTIVE PADS, MASTIC AND MARKINGS.
    - D. ALL ELECTRICAL PANELS AND BREAKERS TO BE PROPERLY MARKED AND A TYPED SCHEDULE TO BE PROVIDED.
    - E. A COMPLETE LIST OF ALL SUB NAMES, ADDRESSES, AND TELEPHONE NUMBERS, TO BE SUBMITTED TO [LEASE TENANT AND BUILDING OWNER(S)]

14. FINAL PAYMENT
    1. ALL FINAL WAIVER MUST BE SUBMITTED WITH FINAL PAYMENT REQUEST.
    2. ALL PUNCH LIST ITEMS MUST BE COMPLETED PRIOR TO RELEASE OF FINAL PAYMENT.

15. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH ICC/IBC-NCBC 2018 GOVERNING CODES, LOCAL ORDINANCES AND AUTHORITIES HAVING JURISDICTION INCLUDING BUT NOT LIMITED TO ACCESSIBILITY CODES.

16. ANY CONFLICT BETWEEN DETAIL, DIMENSION, MATERIAL OR SPECIFICATION IS TO BE ADDRESSED TO THE ARCHITECT FOR INTERPRETATION. ANY SUCH CONFLICT NOT SO RESOLVED WHEREBY LATER CORRECTION IS REQUIRED, SHALL BE AT THE CONTRACTOR'S EXPENSE.

17. ALL MATERIAL SPECIFIED IS TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS AND SPECIFICATIONS. GENERAL CONTRACTOR IS TO CONSTRUCT PROJECT IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S RECOMMENDATIONS.

no.	date	revision	
A	05/21/24	PROGRESS REVIEWS AND COMMENTS FOR APPROVAL	C
B	07/3/24	PROGRESS REVIEWS AND COMMENTS FINAL APPROVAL	0
	9/9/24	ISSED FOR PRE-BID – NOT FOR CONSTRUCTION	
	9/13/24	IFC-CODE ENFORCER REVIEW AND APPROVAL FOR PERMIT	

GENERAL CONSTRUCTION AND PLAN NOTES

THESE WORKING DOCUMENTS HAVE BEEN PREPARED FOR THE BUILDING OWNER(S) AND BY THE BUILDING OWNER(S)' DIRECTIONS WITH SELECTED GENERAL CONTRACTOR AS DESIGN/BUILD SERVICES FOR THE PURPOSE OF DEPICTING OVERALL BUILDING GEOMETRY, AND THE ASSEMBLY OF ARCHITECTURAL ELEMENTS AND THEIR COMPLIANCE WITH LOCAL BUILDING CODE REQUIREMENTS FOR BUILDING TYPE, MATERIAL FINISHES, ACCESS TO EXITS, AND EXIT SYSTEMS ONLY. FOR COMPLETE CONSTRUCTION INFORMATION, THESE DRAWINGS MUST BE USED IN CONJUNCTION WITH PLUMBING, MECHANICAL, ELECTRICAL, AND PROPRIETARY VENDOR'S SHOP DRAWINGS; PROVIDED BY OTHERS.

THESE WORKING DRAWINGS SHOULD PROVIDE THE BUILDING OWNER(S)/GENERAL CONTRACTOR A BASIC SET OF CONTRACT DOCUMENTS (AS A DESIGN/BUILD MECHANISM) FOR PRICE BIDDING AND PERMITTING. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THESE CONTRACT DOCUMENTS, FOR CROSS-REFERENCING RESPECTIVE DESIGN/BUILD CONSTRUCTION TRADES, DIMENSIONS AND SITE VERIFYING OF EXISTING CONDITIONS (ABOVE AND BELOW GRADE) FOR ALL THEIR ACCURACIES, AND CONFIRMING THAT THE WORK IS BUILD-ABLE AS SHOWN BEFORE PROCEEDING WITH CONSTRUCTION. IF THERE ARE ANY QUESTIONS REGARDING THESE OR OTHER COORDINATION ISSUES, THE BUILDING OWNER(S)/GEN. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ARCHITECT OR PROJECT DESIGN DISCIPLINES BEFORE PROCEEDING WITH CONSTRUCTION IN QUESTION. THE CONTRACTOR SHALL BE ABLE TO MAKE ANY MODIFICATIONS DEEMED NECESSARY FOR GOOD CONSTRUCTION PRACTICE UNDER THE LATEST EDITION "ICC/IBC-NCBC 2018 GENERAL CONSTRUCTION" INCLUDING AND ANY OTHER ADDITIONAL LOCAL AREA ZONING ORDINANCE

THE BUILDING OWNER'S ASSIGNED AGENT (AND/OR) GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THESE CONTRACTS DOCUMENT REVIEWED FOR ALL NECESSARY APPROVALS AND OBTAINING ALL REQUIRED PERMITS, AND APPLICATIONS IN ACCORDANCE WITH ALL APPLICABLE STATE BUILDING CODES, AND LOCAL AREA ZONING ORDINANCES, FROM LOCAL AUTHORITIES HAVING JURISDICTION.

THE BUILDING OWNER'S GENERAL CONTRACTOR SHALL INSURE THAT THIS FACILITY WILL BE ACCESSIBLE TO AND USABLE BY PERSON(S) WITH DISABILITIES. ACCORDING TO THE LATEST EDITION/REVISION TO THE "AMERICAN NATIONAL STANDARDS" ICC/ANSI A117.1 2009; ACCESSIBILITY CODE REQUIREMENTS OF THE APPLICABLE STANDARDS.

GENERAL CONTRACTOR SHALL COORDINATE W/ BUILDING OWNER(S)' SPECIALITY EQUIPMENT VENDOR'S PRODUCT "CUT SHEETS" FOR REQUIRED SERVICE UTILITY CONNECTIONS AND LOCATIONS OF ALL WALL OR CEILING MOUNTED EQUIPMENT AND THEIR ADEQUATE REQUIRED REINFORCEMENT OF WALL STUDS AND MOUNTING BRACKET CONSTRUCTION DURING ROUGH-IN FRAMING INSPECTIONS,

BUILDING OWNER(S) TO COORDINATE WITH GENERAL CONTRACTOR'S MILLWORK CONTRACTOR FOR CUSTOM DESIGNS AND SELECTED FINISHES FOR CABINETRY BUILT-IN'S & CLOSET STORAGE UNITS. (MILLWORK SUB-CONTRACTOR TO PROVIDE SHOP DRAWINGS PRIOR TO CONSTRUCTION FOR ANY REQUIRED WALL FRAMED BLOCKING AND ELECTRICAL/DATA/PHONE OUTLETS NEEDED FOR MILLWORK INSTALLATION) DRAWINGS SHALL SHOW FIELD VERIFIED DIMENSIONS, METHODS OF SUPPORT AND ATTACHMENT, AND SAMPLES OF FINISH TO BE APPLIED.

BUILDING OWNER SHALL REVIEW RESTROOM ACCESSORIES FOR FINAL APPROVAL; GENERAL CONTRACTOR TO PROVIDE SELECTED FINISHING MATERIALS AND COLOR SAMPLES FOR ALL INTERIOR SURFACE FINISHES NOT DESIGNATED BY BUILDING OWNER(S) OR THE OWNER(S)' REPRESENTATIVE

THE GENERAL CONTRACTOR SHALL SUBMIT ALL PROPOSED SUBSTITUTIONS TO THE DESIGNER(S) OF RECORD IN WRITING WITH SUFFICIENT INFORMATION, SAMPLES AND DIFFERENCE IN COST FOR EVALUATION. SUBSTITUTIONS MUST BE APPROVED IN WRITING BEFORE THEY MAY BE USED. IF THE CONTRACTOR, BUILDING OWNER(S) OR THE OWNER(S)' REPRESENTATIVE SUBSTITUTE A MATERIAL, REVISE A CONSTRUCTION DETAIL, METHOD OF ATTACHMENT OR IN ANY MAY ALTER THE WORK SO THAT IT DOES NOT CONFORM WITH THESE CONTRACT DOCUMENTS WITHOUT THE ARCHITECT'S WRITTEN APPROVAL, SUCH ACTION WILL RELIEVE THE ARCHITECT OF ANY RESPONSIBILITY OR LIABILITY AS TO THE AESTHETIC EFFECT, SUBSEQUENT FAILURE, PROPERTY DAMAGE OR PERSONAL LIABILITY.

THE GENERAL CONTRACTOR SHALL TAKE ABSOLUTE CARE TO PROTECT NEWLY INSTALLED MATERIALS, MILLWORK, BUILT-INS AND FINISHES.

THE GENERAL CONTRACTOR SHALL PERFORM HIGH QUALITY PROFESSIONAL WORK, JOIN MATERIALS TO UNIFORM, ACCURATE FITS SO THEY MEET WITH NEAT, STRAIGHT LINES, FREE OF SMEARS OF OVERLAPS. INSTALL EXPOSED MATERIALS APPROPRIATELY LEVEL, PLUMB AND AT ACCURATE RIGHT ANGLES, OR FLUSH WITH ADJOINING MATERIALS. WORK OF EACH TRADE SHALL MEET ALL NATIONAL STANDARDS PUBLISHED BY THAT TRADE, EXCEPT IN THE CASE WHERE THE CONTRACT DOCUMENTS ARE MORE STRINGENT

THE USE OF THE WORD 'TYPICAL' MEANS FOR ALL SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.

DETAILS ARE USUALLY KEYED ONLY ONCE ON THE PLANS (ON ELEVATIONS WHEN THEY FIRST OCCUR) AND ARE TYPICAL FOR SIMILAR CONDITIONS THROUGHOUT CONSTRUCTION DOCUMENT SET UNLESS OTHERWISE NOTED.

REFER TO "WALL TYPE LEGEND" CONSTRUCTION DETAILS FOR DESIGNATED WALL TYPES KEYED ON FLOOR PLAN.

SEE FLOOR PLAN SHEETS FOR ALL BUILDING DIMENSIONS AND FINISHED FLOOR ELEVATIONS

DO NOT SCALE DRAWINGS. GOVERN DIMENSIONS: LARGE SCALE DETAILS GOVERN OVER SMALL SCALE DETAILS. THE WORK SHALL BE LAID OUT FROM DIMENSIONS SHOWN ON THE DRAWINGS ONLY. CONTRACTORS SHALL WORK FROM MOST RECENT DRAWINGS SUPPLIED BY OWNER(S) OR ARCHITECT.

TYPICAL FLOOR PLAN DIMENSIONS ARE MEASURED FROM "FACE TO FACE" OF WALL STUDS (FACE END EDGE OR FLANGE) FRAMING, UNLESS NOTED OTHERWISE.

THE GENERAL CONTRACTOR SHALL LAYOUT WALL LOCATIONS AND CENTER LINE OF PLUMBING FIXTURE LOCATIONS AND REVIEW THIS LAYOUT WITH THE ARCHITECT AS NECESSARY.

HINGE SIDE OF DOOR TO BE MIN. 5" OFF INSIDE FACE OF PERPENDICULAR STUD WALL (UNLESS NOTED OTHERWISE); PROVIDE WALL MOUNTED BUMPER (LEVER ALLOW PUSH BUTTON CENTER RECESS) @ DOOR LEVER-SET HEIGHT.

DIMENSIONAL LUMBER TO BE USED AS BLOCKING WITHIN WALLS (FOR DENOTED "WALL MOUNTED" ACCESSORIES) ALTERNATE BLOCKING: GALV SHEET METAL (ASTM G40 16 GAUGE (54mils) FASTEN TO AND CONTINUOUS ACROSS MULTIPLE WALL STUD FACE EDGES

ALL MATERIAL SPECIFIED IS TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS. GENERAL CONTRACTOR IS TO CONSTRUCT PROJECT IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S RECOMMENDATIONS.

ABSOLUTELY NO THRU ROOF PENETRATION ALLOWED WITHOUT BUILDING OWNER(S) WRITTEN ACCEPTANCE AND GENERAL CONTRACTOR'S WRITTEN ASSURANCE TO MAINTAIN ROOF WARRANTY PER FINISHED ROOF PROPRIETARY MANUFACTURER RECOMMENDATIONS

GENERAL CONTRACTOR'S ALTERNATE TO THE DESIGNED DETAILS OF INTENT

DETAILS SHOWN WITHIN THESE CONTRACT DOCUMENTS REPRESENT THE CONFIGURATION OF WALL FRAMING AND WALL CLADDING/SHEATHING FINISHED COMPONENTS AS DESIGNER'S RECOMMENDATIONS AND (AS NOTED) REQUIRED RATED (OR) NON-RATED CONSTRUCTION ASSEMBLIES; GENERAL CONTRACTOR SHALL BE ABLE TO MODIFY THE DESIGNED DETAILS TO SIMPLIFY THEIR CONSTRUCTION (OR) MATCH ACTUAL FIELD CONSTRUCTED CONDITIONS, IF THE "MEANS AND METHODS" ARE MAINTAIN TO THE CONSTRUCTION CONTINUITY FOR THE DESIGN (OR) REQUIRED FINISH SYSTEM ASSEMBLIES.

"SPECIFIC" GENERAL CONDITIONS: THE PRESENCE OF THE ARCHITECT'S REPRESENTATIVE (OR VISITING ARCHITECT) ON THE JOB SITE DOES NOT IMPLY CONCURRENCE OR APPROVAL OF THE WORK COMPLETED OR BEING PERFORMED DURING SITE VISITS. THE GENERAL CONTRACTOR SHALL CALL SPECIFIC ITEMS TO THE ATTENTION OF THE ARCHITECT'S REPRESENTATIVE IF CONTRACTOR WISHES TO OBTAIN THE ARCHITECT'S APPROVAL. (CONSTRUCTION OBSERVATION IS NOT PART OF THIS DESIGN/BID/BUILD CONTRACT BETWEEN DESIGN ELEMENT, INC., WITH OWNER(S)/GENERAL CONTRACTOR)

JOB SITE SAFETY: DESIGN/BUILD ARCHITECTURAL FIRM (DESIGN ELEMENT, INC) DOES NOT HAVE CONTRACTUAL RESPONSIBILITY FOR "JOB SITE" SAFETY (AND) PROVIDING SERVICES INVOLVED IN CONSTRUCTION ACTIVITY. GENERAL CONTRACTOR SHALL BE RESPONSIBLE IN HAVING CONTROL FOR "JOB-SITE" CONSTRUCTION MEANS, METHODS AND SAFETY PROCEDURES TO ALL EMPLOYED PERSONNEL, CONTRACTED SUB-CONTRACTORS AND BUILDING OWNER'S PROPERTY DURING CONSTRUCTION.

SEVERE COASTAL ENVIRONMENT: DESIGN/BUILD ARCHITECTURAL FIRM (DESIGN ELEMENT, INC) AND ITS ASSOCIATED PROFESSIONAL DESIGN DISCIPLINES DO NOT HAVE CONTRACTUAL WARRANTIES FOR OWNER(S)' CONTRACTOR'S PRODUCT MATERIALS, METHODS OF CONSTRUCTION OR INSTALLATION AND MAINTENANCE PROCEDURES FOR THIS PROPOSED PROJECT. "ADVISORY NOTICE:" DUE TO THE VICINITY OF PROPOSED DESIGN/BUILD PROJECT; LOCATED AND SUBJECTED TO SEVERE/ADVERSE ENVIRONMENTAL SURROUNDING CONDITIONS (HUMID MOIST SALD-LADEN AIR AND EXCESSIVE HURRICANE WINDS), THE PROJECT OWNER(S)' MUST BE AWARE TO MAINTAIN A REGULAR SCHEDULE OF AGGRESSIVE BUILDING MAINTENANCE AND AN OPERATIONAL PLAN WITH RECORDS, TO INSURE A REASONABLE PRODUCT MATERIAL LONGEVITY OF THE BUILDING'S FINISHES AND EXTERIOR COMPONENTS. THE "ARCHITECT OF RECORD" HAS PREPARED ONLY, ARCHITECTURAL DETAILED CONSTRUCTION DOCUMENTS AS TO THE BEST PROFESSIONAL DESIGNED OPINIONS, TO REDUCE ABNORMAL WEARING EFFECTS OF AREAS SUBJECTED TO SEVERE ENVIRONMENT CONDITIONS.

FINISHING NOTES / SCHEDULE NOTES

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADVISING THE BUILDING OWNER(S) AND OWNER(S)' REPRESENTATIVE OF ANY QUESTIONS REGARDING THE FINISH SELECTIONS, FINISH SYSTEMS, METHOD OF APPLICATION, OR SCOPE OF WORK PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.

FOR OWNER'S REVIEW AND FINAL APPROVAL, CONTRACTOR TO PROVIDE SELECTED FINISHING (FLOOR, WALL, CEILINGS AND MILLWORK) MATERIALS AND COLOR SAMPLES FOR ALL INTERIOR AND EXTERIOR SURFACE FINISHES.

ALL FLAME SPREAD RATINGS FOR INTERIOR FINISHES TO BE IN ACCORDANCE WITH IBC/NCBC-2018 CODE TABLE 803.11 AS FOLLOWS:
- EXIT ACCESS CORRIDOR & OTHER EXIT PASSAGEWAYS: MINIMUM CLASS "B"
- CORRIDORS: MINIMUM CLASS "C" OR BETTER
- ROOMS AND ENCLOSED SPACES: MINIMUM CLASS "C" OR BETTER.

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD INSPECTION OF THE SURFACES TO RECEIVE PAINT OR WALL COVERING AND ASSURING THAT SUCH SURFACES ARE ACCEPTABLE FOR APPLICATION PRIOR TO INITIATING ACTUAL FINISH WORK. NO STAIN, PAINT OR FINISH SHALL BE APPLIED ON ANY SURFACE WHICH IS UNFINISHED, OR IMPROPERLY PREPARED OR OTHERWISE NOT FULLY ACCEPTABLE FOR THE FINISH APPLICATION. ALL ROUGHNESS OR OTHER IRREGULARITIES THAT MAY APPEAR AFTER PRIMING SHALL BE THOROUGHLY SANDED OUT OR OTHERWISE CORRECTED TO PROVIDE A SMOOTH, EVEN SURFACE FOR PAINTING AND FINISHING. FINISHED APPLICATION AND WALL APPEARANCE SHALL BE FREE OF SURFACE AND COLOR IRREGULARITIES. BY FINISHING THESE SURFACES, THE FINISH/PAINTING CONTRACTOR ACCEPTS THE RESPONSIBILITY FOR FINAL PRODUCT.

MOISTURE RESISTANT GYPSUM WALL BOARD FINISH AT ALL WET AREAS AND ENTRY ALCOVES

ALL FINISHED TRIM TO BE PAINT GRADE POPLAR SMOOTH SANDED FINISHED WITH SCARFED JOINTS AND MITERED CORNER JOINTS GLUED AND NAILED-NO BUTT JOINTS.

PLASTIC LAMINATE COLORS NOT SHOWN ON THE DRAWINGS WILL BE SELECTED AT THE TIME OF SHOP DRAWING SUBMITTAL BY GEN CONTRACTOR W/ OWNER'S APPROVAL..

SOLID SURFACE COMPOSITE, CULTURE (AND/OR) GRANITE COUNTERTOPS TEXTURES AND COLORS NOT SHOWN ON THE DRAWINGS SHALL BE SELECTED AT THE TIME OF SHOP DRAWING SUBMITTAL BY GEN CONTRACTOR W/ OWNER'S APPROVAL.

INTERIOR PAINTING IF APPLICABLE

THE GENERAL CONTRACTOR SHALL SUBMIT FOR THE OWNER'S REPRESENTATIVE 12"x12" SAMPLES, IN DUPLICATES, OF ALL SPECIFIED FINISHES. UPON ACCEPTANCE, ON SAMPLES OF EACH FINISH, SIGNED DUPLICATES FROM THE OWNER'S REPRESENTATIVE SHALL HAVE ONE RETAINED BY OWNER(S) AND THE GENERAL CONTRACTOR. ADDITIONAL DUPLICATES SHALL BE FORWARD TO THE PROPRIETARY MATERIAL VENDOR AND PAINTING SUB-CONTRACTOR FOR THEIR ACKNOWLEDGMENT OF SAMPLE FINISHES TO THE GENERAL CONTRACTOR. COLORS AND MATERIAL FINISHES SHALL BE AS SPECIFIED ON OWNER'S REPRESENTATIVE'S SELECTED COLOR SCHEDULES. ALL FINISHES SHALL MATCH EXACTLY THE SAMPLES AND SPECIFIED COLORS.

APPLICATION FOR ALL PAINTED SURFACES SHALL RECEIVE NOT LESS ONE (1) COAT HIGH BUILD (MIN. 35% SOLID) SURFACE PAINT PRIMER AND TWO (2) FINISHED COATS OF ACRYLIC LATEX PAINT SYSTEM, UNLESS OTHERWISE NOTED, USING THE COMPLETE PAINT SYSTEM (SEALER, PRIMER, FINISH COAT, ETC.) AS RECOMMENDED BY THE PAINT MANUFACTURER AND ALL APPLICABLE MINIMUM TRADE STANDARDS.

ALL MATERIAL WORKMANSHIP OF PAINTED SURFACE SHALL PRODUCE A UNIFORM FINISH OF SMOOTH ROLLED OR BRUSHED WITH NO SKIPS, LAPS, OR STREAKS.

THE GENERAL CONTRACTOR SHALL, UPON COMPLETION, REMOVE ALL PAINT FROM WHERE IT HAS SPILLED, SPLASHED OR SPLATTERED ON SURFACES, INCLUDING LIGHT FIXTURES, DIFFUSERS, REGISTERS, FITTINGS, ETC. THE GENERAL CONTRACTOR SHALL RECEIVE ALL ELECTRICAL SWITCH AND OUTLET PLATES, SURFACE HARDWARE, ETC. BEFORE PAINTING. THE GENERAL CONTRACTOR SHALL PROTECT AND REPLACE THE SAME WHEN PAINTING IS COMPLETE.

PAINTING CONTRACTOR TO FILL AND TOUCH UP ALL NAIL HOLES IN WOOD TRIM.

PAINTING CONTRACTOR SHALL PROVIDE CAULKING AROUND ALL INTERIOR AND EXTERIOR FINISHED WINDOW FRAMES, BUILT-INS, JOINTS AND INTERSECTIONS OF DISSIMILAR MATERIALS IN COORDINATION WITH THE GENERAL CONTRACTOR. EXTERIOR CAULKING SHALL BE POLYURETHANE ADHESIVES / SEALANT COLOR MATCH TO WINDOW FRAME; (SIM MFR. SONNEBORNE NP-1) ABSOLUTELY NO SILICONE SEALANT ALLOWED UNLESS NOTED OTHERWISE AS PAINTABLE

PAINTING CONTRACTOR TO LEAVE ON SITE ONE (1) QUART OF EACH PAINT TYPE AND COLOR USED FOR THIS JOB, IN CLEARLY MARKED CONTAINERS.

MANUFACTURED ENGINEERED WOOD ROOF FRAMED TRUSSES AND (OPEN WEB) GABLE ROOF TRUSSES

BUILDING CROSS SECTIONS ARE FOR PRESENTATION PURPOSES ONLY AS AN ARCHITECTURAL SCHEMATIC LAYOUT FOR THE [ROOF TRUSS] SUPPLYING VENDOR. SEE STRUCTURAL ENGINEER'S WORKING DRAWINGS AND PRE-FAB/ENGINEERED TRUSS MANUFACTURE'S DESIGNED SHOP DRAWINGS FOR ACTUAL QUANTITIES, LOCATIONS AND INSTALLATION OF ROOF TRUSSES, AND TRUSS SUPPORTING (LAMINATED VENEER LUMBER) BEAMS. GEN. CONTRACTOR SHALL COORDINATE ROOF TRUSS END BEARING AND UPLIFT REACTIONS WITH "STRUCTURAL ENGINEER OF RECORD" FOR VERIFYING ADEQUATE TRUSS HANGERS, AND HOLD-DOWN "HURRICANE" CLIPS SIZES

GENERAL STRUCTURAL NOTES (REFERENCE STRUCTURE ENGINEERING DRAWINGS "BUILDING ANALYSIS SUMMARY FOR ADDITIONAL DETAILED INFORMATION)

GENERAL CONTRACTOR SHALL (GC) HAVE WALL SECTIONS AND FRAMING SCHEMATIC PLANS REVIEWED BY PRE-FAB/ENGINEERED FLOOR, ROOF & BEAM MANUFACTURER BEFORE COST ESTIMATING AND CONSTRUCTION BEGINS. (MANUFACTURED/ENGINEERED TRUSSES & LAMINATED VENEER LUMBER BEAM FABRICATOR TO PROVIDE (GC) WITH CERTIFY (NC ENGINEERED SEALED) WORKING DOCUMENTS & INSTALLATION DETAILS, THAT SHOWS THEIR TRUSS SYSTEM IS DESIGNED IN COMPLIANCE TO LATEST EDITION OF ICC/IBC-NCBC 2018 GENERAL CONSTRUCTION & ASCE-7-10 CODES - CURRENT EDITION CODES. (GC) TO SUBMITTED THESE SEALED WORKING DOCUMENTS TO ENGINEER OF RECORD FOR VERIFICATION OF MANUFACTURER'S COMPLIANCE TO CODE CRITERIA DESIGNED LOADS; AND PROVIDE TO CODE ENFORCEMENT AUTHORITY HAVING JURISDICTION

GENERAL STRUCTURAL NOTES (REFERENCE STRUCTURE ENGINEERING DRAWINGS "BUILDING ANALYSIS SUMMARY FOR ADDITIONAL DETAILED INFORMATION)

1. DESIGN LIVE LOADS
   - ROOF : 20.0 PSF
   - COLLATERAL LOAD: 15.0 PSF (FIRE PROTECTION SYSTEM (IF REQ'D); ATTIC (MECH PLATFORM) TRUSS (BOTTOM CHORD) DENOTED OPEN (AREA)
   - STORAGE LOAD: 40.0 PSF

   (COLLATERAL LOADS SHALL NOT BE USED IN WIND UPLIFT LOAD CASES)

2. WIND LOADS
   - BASIC WIND VELOCITY: 149 MPH
   - EXPOSURE CLASS: C

MECHANICAL AND PLUMBING DESIGNER(S) AND RESPECTED TRADE SUB-CONTRACTOR(S) TO COORDINATE WITH (G.C.) ANY PROPOSED DUCTWORK AND PIPING DESIGNS RUNNING THRU MANUFACTURED TRUSSES. COORDINATION OF THE MECHANICAL/PIPNG DESIGNS SHALL BE REVIEWED WITH "TRUSS MANUFACTURER" FOR THEIR ALLOWABLE CLEAR ROUGH OPENING SIZES AND HORZ. LOCATIONS THRU TRUSS WEB FRAMING

BEFORE FINAL PLACEMENT AND CONSTRUCTION OF FLOOR TRUSSES, GENERAL CONTRACTOR & RESPECTED SUB-CONTRACTOR(S) OF TRADES ARE TO COORDINATE ALL PROPOSED VERTICAL AND HORIZONTAL INSTALLATION OF THEIR COMPONENT (PLUMBING WASTE STACKS AND TRAPS, ELECTRICAL AND (IF APPLICABLE) FIRE SPRINKLER PIPING) DESIGNS RUNNING BETWEEN AND THRU FLOOR TRUSSES. COORDINATION FOR FIELD ADJUSTMENTS SHALL BE REVIEWED WITH STRUCTURAL ENGINEER AND "TRUSS MANUFACTURER" SHOP DRAWINGS FOR THEIR ALLOWABLE CLEAR VERT./HORZ. DIMENSIONAL SPACE TRUSS FRAMING LOCATIONS AWAY FROM WASTE WATER PLUMBING SYSTEMS; "ABSOLUTELY NO MODIFICATION (CUTTING (OR) NOTCHING) OF MANUFACTURED (TRUSS VENDOR) TRUSSES SHALL BE ALLOWED" GENERAL CONTRACTOR AND/OR SUB-CONTRACTOR(S) SHALL BE HELD RESPONSIBLE FOR RELOCATING (OR) RECEIVE FROM PROPRIETARY TRUSS MFG "FIELD ALTERATION" DETAILING INFORMATION ENABLING "FI

no.	date	revision	
C	9/9/24	ISSED FOR PRE-BID – NOT FOR CONSTRUCTION	
0	9/13/24	IFC-CODE ENFORCER REVIEW AND APPROVAL FOR PERMIT	

FLOOR PLAN LEGEND

SIGN– WALL MOUNTED (DOOR MOUNTED IF NOT APPLICABLE) IDENTIFICATION SIGNAGE (SEE SIGNAGE DETAIL SHEET B/N100)

1 DESIGNATES WALL TYPE CONSTRUCTION; (SEE SHEET 1/A103 FOR TYPICAL WALL TYPES)

FE FIRE EXTINGUISHER CABINET; HIGH-IMPACT FIBERGLASS; (REFERENCE MANUF: JL INDUSTRIES; MODEL 1353D12) PROVIDE FIRE EXTINGUISHER PORTABLE UNIT W/ LEVER HEIGHT SET AT 42" A.F.F. APPROXIMATE LOCATION SHOWN (MULTI-PURPOSE CARBON DIOXIDE (MIN. 5lb OR GREATER) CLASS TYPE ABC)

# INDICATES DOOR IDENTIFICATION NUMBER; REFERENCE ARCH SHEET A600 FOR INFORMATION ON NOM. DOOR/FRAME SIZES, DESIGNATION TYPES & HARDWARE (REFERENCE ARCH A600 FOR DETAILED INFOR'N)

X INDICATES WINDOW IDENTIFICATION LETTER; REFERENCE ARCH SHEET A600 FOR DETAILED INFORMATION FOR WINDOW FRAME DIMENSIONS AND NOTES

T.S. DESIGNATED AS HANDICAPPED ACCESSIBLE "ARCHITECTURAL BARRIER FREE" TRANSITION "CHASE" STRIP

M.T. DESIGNATES EXTRUDED (SOLID) ALUMINUM FLOOR FINISH FLUSH TRANSITION THRESHOLD; ADAAG/HC "BARRIER FREE" ACCESSIBLE CROSS-OVER (MAX. 1/2" THK'N,)

E.J. EXPANSION CONSTRUCTION JOINT, (NOM. 1/2" WIDTH) EXTERIOR TRAFFIC GRADE BITUMINOUS MATERIAL; PERIMETER FOUNDATION TO SLAB EDGE; WEATHER TIGHT JOINT SEAL W/ POUR-ABLE SELF LEVELING SEALANT (SIMILAR MFR: SIKAFLEX)

M.T.S. ALUM. EXTRUDED THRESHOLD TRANSITION STRIP; APPROPRIATE FINISH STRIP, JOINT SYSTEM AT FINISHED FLOORING CHANGES FROM ONE MATERIAL TO ANOTHER; TYPICAL FINISHED CARPET TO TAPERED TO FINISHED CONCRETE SLAB; DISABILITY ACCESSIBLE (ANSI/ADAAG)

C.T.J. CONCRETE FLAT SLAB CONTROL JOINT; PER-FORMED "T-SHAPE" PLASTIC CRACK CONTROL STRIP (OPTIONAL: SAW CUT CONTROL JOINT; SAW CUT TOP SURFACE)

C.J. CONSTRUCTION JOINT; SEPARATE FLOOR SLAB POUR W/ PRE-FORMED GALV (ASTM G60) CONTINUOUS METAL (SHEAR) KEYWAY AT ABUTTING PERIMETER RIBBON SLAB EXPOSED EDGES; PROVIDE No.4's 36"LG DOWELS AT MAX. 32" O/C SPACING; MAX. RIBBON SLAB EMBEDMENT 1'-6" (1'-6" EXPOSED FOR FUTURE FLOOR SLAB TIE-INS)

V.J. VERTICAL MASONRY (VENEER WAINSCOT AND CMU BACK-UP WALL) CONTROL JOINT; SEE DETAIL (IF APPLICABLE)

C.S. CONCRETE SLAB CONTROL JOINT; TOOLED JOINT

ARCHITECTURAL VERTICAL CONTROL; SURFACE FINISHED ELEVATION POINT

FD FLOOR DRAIN, APPROXIMATE LOCATION CAST-IN-SLAB RECESS AND SLOPE FOR DRAINAGE (MIN 16" SQ. FLOOR SLAB TAPERED TO DROPPED INLET WASTE DRAIN) REFERENCE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION

DESIGNATES LOCATION OF PROPOSED INTERIOR AND FURRING METAL STUD FRAME WALLS W/ GYPSUM WALL BOARD FINISHED SHEATHING; (REFERENCE ARCHITECTURAL SHEETS A500a AND A500b FOR TYPICAL WALL TYPE CONSTRUCTION ASSEMBLY)

NOMINAL 8" CONCRETE MASONRY UNIT EXTERIOR/INTERIOR (LOAD AND NON-LOAD BEARING) WALLS; (REFERENCE ARCHITECTURAL WALL SECTIONS FOR ADDITION INFORMATION); REFERENCE STRUCTURAL WORKING DRAWINGS FOR CONSTRUCTION DETAILS AND SPECIFICATION NOTES

(TYPICAL; UNLESS NOTED OTHERWISE) CONCRETE MASONRY UNITS SHALL BE IN ACCORDANCE OF WITH ASTM C-90 TYPE I GRADE N-1 (FM 1350psi); GROUT FOR MASONRY WALL SHALL COMPLY WITH ASTM C-476, AND SHALL BE PROPORTIONED TO OBTAIN A 28 DAY COMPRESSIVE STRENGTH OF 2500psi; ALL MORTAR SHALL BE ASTM C-270. TYPE M OR S. (STRUCTURAL DRAWING AND SPECIFICATION SHALL TAKE PRECEDENCE OVER ARCHITECTURAL DRAWING)

TD PROPOSED CAST-IN-SLAB FLOOR LINER SHOWER TRENCH DRAIN, (NOMINAL (MIN) 4" WIDTH x 2" DEPTH – 36" LONG) STAINLESS STEEL (ASTM 316) SLOT/SQUARE PATTERN GRATE DRAIN (REMOVABLE) COVER PLATE; APPROXIMATE LOCATION, (REFERENCE: PROPRIETARY COMMERCIAL WASTE DRAIN VENDOR AND PLUMBING DWGs FOR ADDITIONAL INFORMATION)

(HC) DESIGNATED AS HANDICAPPED ACCESSIBILITY "ARCHITECTURAL BARRIER FREE" (CLEAR FLOOR TURNING SPACES (60" DIAMETER (OR) DENOTED ADA/ANSI) FORWARD AND SIDE APPROACHES DIMENSIONAL DENOTED AND GRAPHICALLY SHOWN ON FLOOR PLANS)

HB DESIGNATES FREEZE-PROOF ENCLOSED COMMERCIAL WALL HYDRANT "HOSE BIB" WITH VACUUM BREAKER & "TEE" KEY; (NOMINAL/REFERENCE: MOUNTING HEIGHT ABOVE FINISHED (GRADE/FLOOR) 1'-4")

DS PRE-FINISHED NOM. 3x4 DOWN SPOUT (DS) (MIN. 18Mils) FROM THRU-ROOF PARAPET WALL CONDUCTOR BOX, (MIN. 33Mils); PROVIDE (DS) CONNECTION WALL STRAPS AT EACH 1/3 POINT VERTICAL WALL HEIGHT; PROVIDE EACH PROVIDE DOWNSPOUT W/ PROPER SIZE TRANSITION JOINT CONNECTOR TO UNDERGROUND STORMWATER MANAGEMENT SYSTEM, REFERENCE CIVIL SITE DWG'S , REFERENCE CIVIL SITE DWG'S

SYMBOL KEY

X WINDOW TYPE

DOOR NUMBER

PLAN/SECTIONAL KEYNOTES

WALL TYPE CONSTRUCTION

D / SHEET ELEVATION KEY

3 / SHEET ASSIGNED IDENTIFIER (LETTER OR NUMBER)

SHEET NUMBER FOR REFERENCE DRAWING

100 ROOM NUMBER

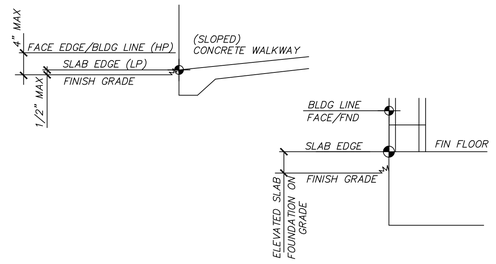
5 / SHEET BUILDING SECTION KEY

A301 SECTION KEY

5 / SHEET DETAIL KEY ENLARGED PLAN

ELEVATION TARGET POINT

BUILDING LINE DEFINITION



VERTICAL CONTROL EQUIVALENTS:

FF – ARCHITECTURAL (DENOTED FOR SIMPLISTIC DESIGNS)
FINISHED FIRST FLOOR ELEVATION (EL) = 0'-00" (0.00' A.F.F.))

FG – ARCHITECTURAL FINISHED GRADE
ELEVATION (EL) = (–)0.333' A.F.F.
(EST. 5'-0" FROM DESIGNATED BUILDING LINE)

EL. FF – CIVIL SITE PLAN = FINISHED SLAB ELEVATION (MHSL) (EL. (CIVIL/SITE) 9.11' MSL)

FG – FINISH GRADE (BUILDING GRADE PERIMETER) = EL. (T.B.D.') MSL
(EST. 12'-0" FROM DESIGNATED BUILDING LINE)
(SEE CIVIL SITE DWG'S FOR ACTUAL FINISH GRADE (DECIMAL (FT) DESIGNATION)

CONVERSION CHART

US STANDARD STEEL GAUGE EQUIVATENTS IN NOMINAL DIMENSIONS

MINIMUM DELIVERED THICKNESS (mils)	REFERENCE GAUGE STEEL SHEET (ga)	REFERENCE THICKNESS ALUMINUM 3003 (inch)
18	25	0.018"~0.021"
27	22	0.027"~0.031"
33	20	0.035"~0.040"
43	18	0.042"~0.045"
54	16	0.050"~0.055"
68	14	0.064"~0.071"
97	12	0.080"~0.102"

GENERAL ABBREVIATIONS

ADA AMERICAN/DISABILITY ACT
ADAAG ADA ACCESSIBLE GUIDELINES
AFF ABOVE FINISHED FLOOR*
AFG ABOVE FINISHED GRADE*
AGGR AGGREGATE
ANR ANCHOR
AHU AIR HANDLING UNIT*
ALUM ALUMINUM
ALT ALTERNATE*
ANOD ANODIZED
ASSY ASSEMBLY
ATTACH ATTACHMENT
AVG AVERAGE
AHJ AUTHORITY HAVING JURISDICTION

BRD BOARD
BITUM BITUMINOUS
BL BUILDING LINE
BLDG BUILDING
BLK BLOCK
BM BEAM
BOT BOTTOM
BRG BEARING

C/C CENTER TO CENTER*
CABT CABINET
CPT CARPET
CAV CAVITY
CD CORNER GUARD*
CEMT CEMENT
CER CERAMIC
CHAN CHANNEL
CHFR CHAMFER*
C/J CONSTRUCTION JOINT
CL CENTER LINE
CLG CEILING
CJ CONTROL JOINT
CLR CLEAR
CMU CONCRETE MASONRY UNIT*
CO CASED OPENING*
COL COLUMN
CONC CONCRETE
CONN CONNECTION
CONST CONSTRUCTION
CONT CONTINUOUS (ACTION)

DBL DOUBLE
DEMO DEMOLITION*
DET DETAIL
DF DRINKING FOUNTAIN
DIM DIMENSION
DIST DISTANCE
DN DOWN
DS DOWNSPOUT
DWG DRAWING

EL ELEVATION
EMER EMERGENCY
EQ EQUALLY SPACED
EQUIP EQUIPMENT*
EST ESTIMATE
EW EACH WAY
EWC ELECTRICAL WATER COOLER
EWH ELECTRICAL WATER HEATER*

EXHT EXHAUST FAN*
EXP EXPANSION
EJ EXPANSION JOINT
EXST EXISTING
EXT EXTERIOR

FACP FIRE ALARM CONTROL PANEL*
FD FLOOR DRAIN
FDN FOUNDATION
FEC FIRE EXTINGUISHER CABINET*
FRP FIBERGLASS*
FIN FINISH*
FIN FL FINISH FLOOR*
FIN GR FINISH GRADE*
FLR FLOOR(ING)*
FTG FOOTING

GA GAGE
GALV GALVANIZED
GND GROUND
GYP BD GYPSUM BOARD*

H PLAM HIGH PRESSURE LAMINATE*
HC HOLLOW CORE*
HDWR HARDWARE*
HGT HEIGHT
HORIZ HORIZONTAL
HP HIGH PERFORMANCE
HPT HIGH POINT
HVAC HEATING,
VENTILATION, AIR CONDITIONING*
HWH HOT WATER HEATER

INSUL INSULATION
INTR INTERIOR

JST JOIST*
JNT JOINT

LAM LAMINATION
LAV LAVATORY
LONG LONGITUDINAL
LPT LOW POINT*
LT WT LIGHTWEIGHT*
LTG PNL LIGHTING PANEL*
LVL LAMINATED VENEER LUMBER

MASO MASONRY*
MATL MATERIAL
MAX MAXIMUM
MECH MECHANICAL
MET METAL
MFG MANUFACTURING
MIN MINIMUM
MISC MISCELLANEOUS
MO MASONRY OPENING
MR MOISTURE RESISTANT
MTD MOUNTED

NA NOT APPLICABLE
NIC NOT IN CONTRACT
NOM NOMINAL
NTS NOT TO SCALE

O/C ON CENTER
OD OUTSIDE DIAMETER
OPP OPPOSITE
OVHD OVERHEAD

PEMB PRE-ENGINEERED METAL (MFR) BUILDING
PERP PERPENDICULAR
PLYWD PLYWOOD
PNL PANEL
PR PAIR
PREFAB PREFABRICATED
PREFIN PREFINISHED*
PRELIM PRELIMINARY
PSF POUNDS PER SQUARE FOOT
PSI POUNDS PER SQUARE INCH
PT PRESSURE TREATED
PTD PAINTED

REF REFERENCE
REINF REINFORCE(D)(ING)(MENT)
REQ REQUIRED
RO ROUGH OPENING

SCHED SCHEDULE
SHT SHEET(ING)*
SIM SIMILAR
SPCL SPECIAL
SPEC SPECIFICATION
SF (SqFt) SQUARE FOOT
SS STAINLESS STEEL
STC SOUND TRANSMISSION CLASS*
STD STANDARD
STL STEEL
STOR STORAGE
STRUCT STRUCTURAL*

T&B TOP AND BOTTOM
T&G TONGUE AND GROOVE
T/ TOP OF (CONSTRUCTED ELEMENT)
THK THICKNESS*
THRU THROUGH
TEMP TEMPERED GLASS*
TOL TOTAL
TV TELEVISION
TYP TYPICAL
TELE TELEPHONE CABINET*
TYP TYPICAL
TBD TO BE DETERMINE

UNO UNLESS OTHERWISE NOTED*

VCT VINYL COMPOSITION TILE*
VERT VERTICAL

W/ WITH
W/O WITHOUT
W/W WALL TO WALL*
WC WATER CLOSET
WCO WALL CLEANOUT*
WD WOOD
WWF WELDED WIRE FABRIC*

XFMR TRANSFORMER

THIS SHEET SHOWS BASIC DRAFTING STANDARDS

TOWN OF CAROLINA BEACH NORTH CAROLINA

Design Elements
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Wilmington, North Carolina 28405
910-509-5337

12/13/2024

MICHAEL LEE SAIEED JR. ON NOVEMBER 13, 2024 REGISTERED ARCHITECT NORTH CAROLINA

Proposed Public Restroom Facility for
Town of Carolina Beach
CAROLINA BEACH AVE. SOUTH – PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428

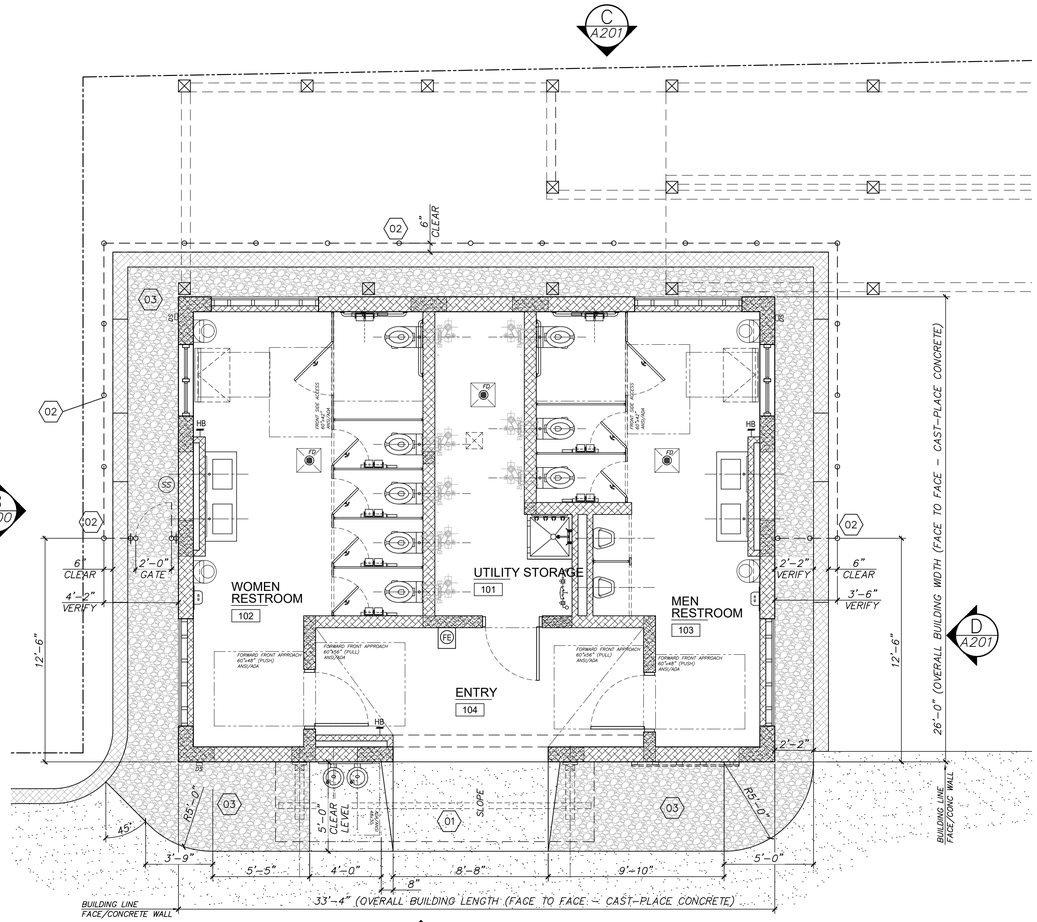
SYMBOLS AND LEGENDS

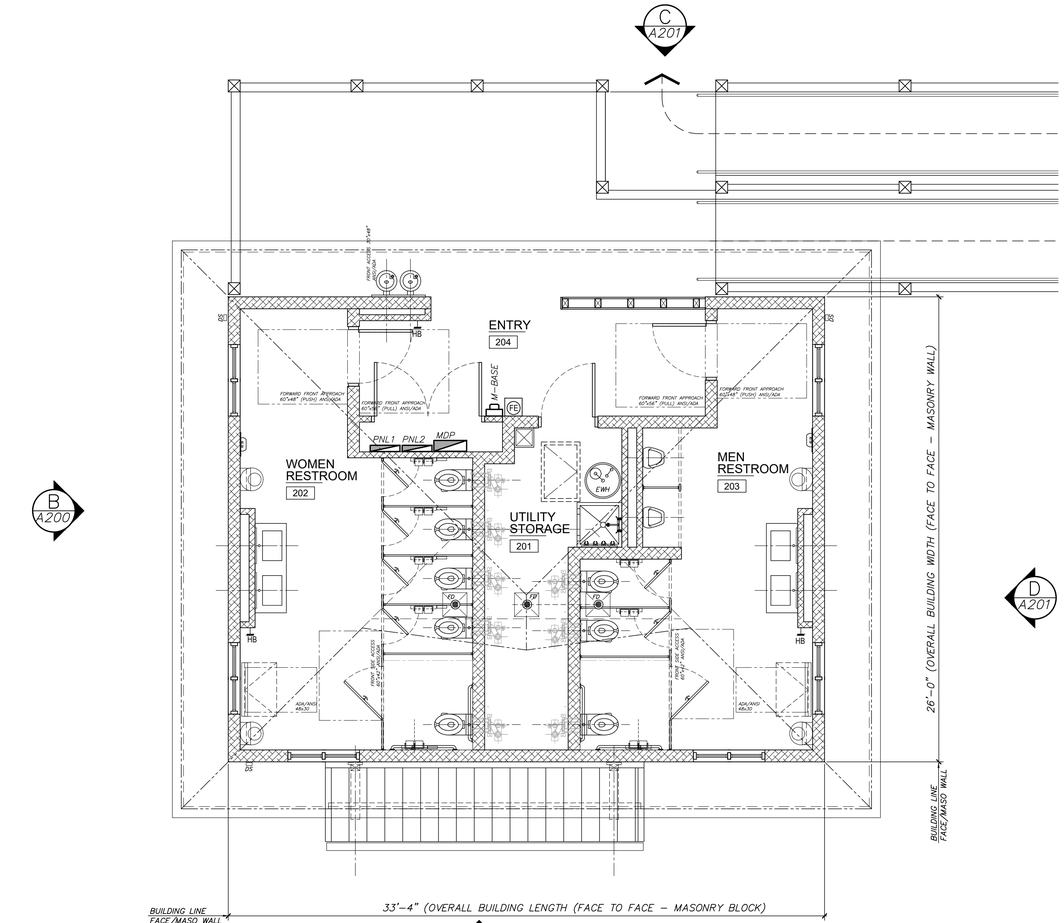
Contract Documents - Issue for Construction

job status

date	03 MA7 24
job no.	CB/RESTRM/24
drawn by	MLS/SGH
checked by	MSAIEED
drawing no.	N102
revision no.	0

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SITE NORTH

PLAN NORTH

1 GA100 GENERAL ARRANGEMENT GROUND (FIRST) FLOOR PLAN

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

GRAPHIC BAR SCALE: (FOOT UNITS)

0 2 4 10

1 3 5

THIS SHEET ONLY

SITE NORTH

PLAN NORTH

2 GA100 GENERAL ARRANGEMENT SECOND (BEACH STRAND) FLOOR PLAN

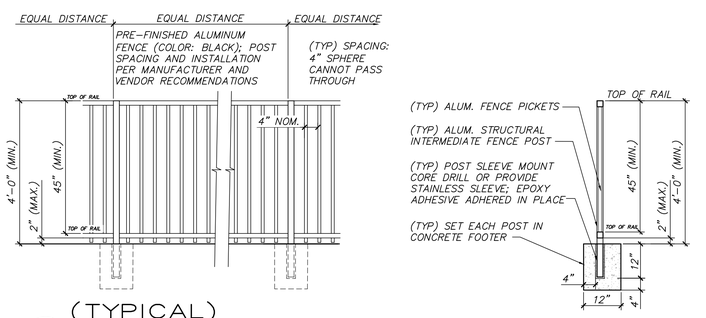
SCALE: 1/4" = 1'-0"

PLAN KEYNOTES

01 ACCESSIBLE EGRESS WALKWAY ENTRY STOOP (MAX.8"/MIN.6" SLAB THK'N); SLOPE FRONT RUN TO ALIGN FLUSH/ALIGNED W/ EXISTING CONCRETE BOADWALK (MAX. SLOPE 1":12"); OVERALL WALKWAY "RUN" SHALL NOT EXCEED 5% SLOPE; INSTALL OVER CLEAN COMPACTED GRANULAR SUBFILL; (LIGHT BROOM SURFACE FINISH); REINFORCED SLAB W/ 6x6 1.4-1.4 W.W.F. (MESH SHEETS) REINFORCED TURN-DOWN EDGES W/ TOP/BOTTOM No.4 NOSING BARS; PROVIDE ADEQUATE CONTROL JOINT ON-CENTER MIN. NOMINAL SPACING EQUAL TO WIDTH OF WALKWAY/CURBING; EGRESS/ENTRY STOOP TO PROVIDE (FLAT SURFACE NOMINAL AREA) "ARCHITECTURAL BARRIER FREE" FORWARD APPROACH TO DRINKING FOUNTAINS (REFERENCE CIVIL/SITE ENGINEERED DWG'S FOR ADDITION FINISHED GRADE INFOR'N)

02 PRE-FINISHED ALUMINUM FENCING WITH ACCESS GATE; STEPPED TO FOLLOW SLOPE OF GRADE: (NOM) 24" WIDE GATE SHALL BE EQUIPPED TO ACCOMMODATE A LOCKING DEVCE (HASP-STYLE WITH OWNER-PROVIDED REMOVABLE LOCK) REFERENCE DETAIL A/GA100

03 INFILL AREA W/ (MIN.) 3" THICK COVER "RIVER ROCK" (MIN. 2" SIZE) OVER "PINNED IN PLACE" GEO-FABRIC "WEED BARRIER" MESH CLOTH



A GA100 (TYPICAL) FENCE ELEVATION AND SECTION

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

no.	date	revision	C	9/9/24	ISSED FOR PRE-BID — NOT FOR CONSTRUCTION
A	05/21/24	PROGRESS REVIEWS AND COMMENTS FOR APPROVAL	0	9/13/24	IFC-CODE ENFORCER REVEW AND APPROVAL FOR PERMIT
B	07/3/24	PROGRESS REVIEWS AND COMMENTS FINAL APPROVAL			

TOWN OF CAROLINA BEACH NORTH CAROLINA

THIS SHEET SHOWS BASIC DRAFTING STANDARDS

Digitally signed by Michael L. Saieed, Jr. RA AIA (aka Mitchell)
DN: cn=Michael L. Saieed, Jr. RA AIA (aka Mitchell), o=Design Elements, ou=Architect of Record - NC Lic 8773, email=msaieed@designele.com, c=US
Date: 2024.09.16 15:52:12 -04'00'

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9/13/2024

MICHAEL LEE SAIEED JR. ON BEACH 8773 ARCHITECT NORTH CAROLINA

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Proposed Public Restroom Facility for

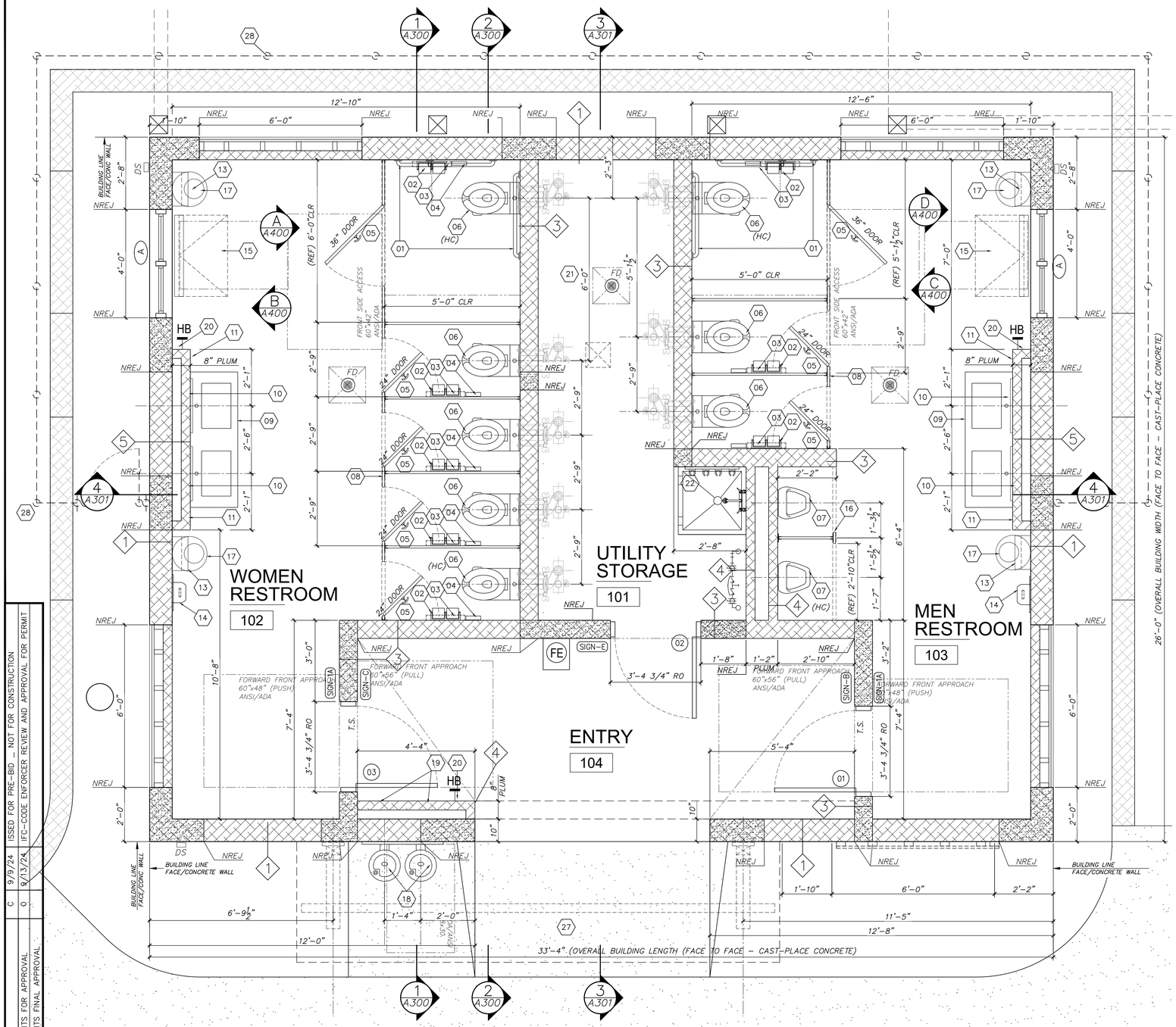
Town of Carolina Beach

CAROLINA BEACH AVE, SOUTH - PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428

GENERAL ARRANGEMENT FIRST AND SECOND FLOOR PLANS

job status **Contract Documents - Issue for Construction**

date	03 MA7 24
job no.	CB/RESTRM/24
drawn by	MLS/SGH
checked by	MSAIEED
drawing no.	GA100
revision no.	0



PLAN KEYNOTES THIS SHEET ONLY

01 1 1/2"ø – STAINLESS STEEL HANDRAIL BACK WALL & SIDE WALL MOUNTED "HORIZONTAL GRAB BARS" WITH "VERTICAL SIDE WALL PULL BAR" (SEE STANDARD HC ACCESSIBILITY DETAILS) SIMILAR MFG: AMERICAN SPECIALTIES, INC. (ASI) PRODUCTS 3800-SERIES "GRAB BAR"; FINISH: BRUSHED SATIN/TEXTURE GRIP "P"). (SEE STANDARD HC ACCESSIBILITY DETAILS)

02 TOILET TISSUE (MULTI-ROLL) STAINLESS STL. DISPENSERS; DOUBLE (COMBINED) UNITS, SURFACE MOUNT (REFERENCE MFG: ASI: MODEL 0039; SATIN FINISHED; VERIFY W/ BUILDING OWNER)

03 SEAT-COVER (DISPOSABLE PAPER) STAINLESS STL. DISPENSER; SURFACE MOUNT ABOVE GRAB BAR (MIN ABOVE ACCESS CLEARANCE 2"); (REFERENCE MFG: ASI MODEL 0477-SM1 SATIN FINISHED; VERIFY W/ BUILDING OWNER)

04 FEMALE SANITARY NAPKIN STAINLESS STL. WASTE DISPOSAL; SURFACE MOUNT (REFERENCE MFG: ASI MODEL 0852; SATIN FINISHED; VERIFY W/ BUILDING OWNER)

05 (TYP) "BARRIER FREE" DOOR/COAT HOOK, DOOR PANEL MOUNTED; ACCESSIBLE TO PERSONS W/ DISABILITY; (TOP CENTER HEIGHT 48" A.F.F.) (REFERENCE MFG: ASI MODEL 0714; VERIFY W/ BUILDING OWNER)

06 WALL MOUNTED BARIATRIC TOILET (700-LB RATED); ELONGATED BOWL AND OPEN-FRONT SEAT WITH INTEGRATED HANDLE; PROVIDE FLUSH VALVE W/ BATTERY POWERED MOTION SENSOR ACTIVATED AND MECHANICAL OVERRIDE; SEE GENERAL ACCESSIBILITY REQUIREMENTS; (REF PLUMBING DWG'S FOR ADDITIONAL INFOR'N) PROVIDE THRU-WALL CARRIAGE SUPPORT (CONTRACTOR SHALL VERIFY CONCEALED FLOOR CARRIAGE MOUNTING REQUIREMENTS AND NECESSARY WALL DEPTH)

07 WALL-MOUNTED URINAL; CONCEALED WALL SUPPLY/FLUSH VALVE W/ BATTERY POWERED MOTION SENSOR ACTIVATED AND MECHANICAL OVERRIDE PUSH BUTTON; PROVIDE THRU-WALL VERTICAL CARRIAGE (THRU-WALL), ADA/HC ACCESSIBLE WHERE NOTED (HC); SEE GENERAL ACCESSIBILITY REQUIREMENTS; (REF PLUMBING DWGS)

08 TOILET/PRIVACY PARTITIONS – SOLID PHENOLIC CORE PANELS AND PILASTERS W/ DECORATIVE SURFACE FINISH FACED "HP-PLAM" EACH SIDE (SIM MANUF. "ASI" BLACK CORE PHENOLIC; BASIS OF DESIGN); PROVIDE MANUFACTURER'S FULL RANGE OF STANDARD COLORS FOR OWNER'S SELECTION; FLOOR MOUNTED INSTALLATION WITH CONTINUOUS ALUMINUM HEADRAIL CROSS BRACING AND STAINLESS STL. CONT. WALL MOUNTING BRACKETS (FULL PANEL LENGTH) AND CONTINUOUS DOOR HINGES (SELF-CLOSURE) (FULL PANEL HEIGHT); ADA/ANSI ACCESSIBLE STAINLESS STEEL OCCUPANCY INDICATOR LATCHSET; STAINLESS STL FORMED PILASTER TRIM SHOES; (SECURED TO PILASTER WITH STAINLESS STEEL (INSTALLER SHALL PROVIDE "316" STAINLESS STEEL FASTENINGS IN LIEU OF MANUFACTURER'S STANDARD PROVIDED FASTENERS) TAMPER-RESISTANT SCREWS AND SECURED TO FLOOR WITH CONCRETE ANCHORS.) SEE PLAN FOR DOOR SIZES. TOILET STALL PANELS: (NOM.) 60"(H) PNL MOUNT(HT) 12" A.F.F.

09 PREMANUFACTURED VANITY UNIT CONCRETE COUNTERTOP (REF; MAUNF. "TRUEFORM" MODEL "FLO-60V-DBL-ADA") W/ TWO (2) INTEGRAL LAVATORIES WITH 4" BACKSPLASH (COLOR SELECTED BY REAL PROPERTY OWNER FROM MANUFACTURER'S STANDARD COLOR SELECTIONS); PROVIDE OPTIONAL OVERFLOW KITS; PROVIDE TWO (2) SINGLE-HOLE FAUCET FIXTURES SETBACK FROM FRONT RIM (MAX. DIST. 19") PROVIDE ELECTRONIC SENSOR ACTIVATED FAUCET CONTROLS. (MAX. RIM HT. 34" A.F.F.) SEE GENERAL ACCESSIBILITY REQUIREMENTS; (REF PLUMBING DWG'S FOR ADDITIONAL INFOR'N); PROVIDE THREE (3) STAINLESS STEEL WALL-MOUNT BRACKETS; (REF. VENDOR "FEDERAL BRACE" MODEL "STREAMLINE COUNTERTOP" 34472 (NOM) 2"(W)x18"x18") PROVIDE STAINLESS STEEL WALL FASTENERS/ EPOXY RENOVATION ANCHORS (MIN.) 3" EMBEDMENT (SIM MANUF. HILTI); PROVIDE TWO (2) MANUFACTURER'S STANDARD STAINLESS STEEL ADA PLUMBING SHIELDS.

10 WALL MOUNTED VANITY MIRROR (SHATTERPROOF/SAFETY) (REFERENCE MFG: ASI: 8026 SERIES); CENTERED TO SINK; (MIN. 24"(W) x 36"(H)). MOUNT BOTTOM EDGE 40" MAX A.F.F.

11 SOAP DISPENSER; STAINLESS STL. SURFACE MOUNTED (REFERENCE MFG: ASI MODEL 0347; SATIN FINISHED VERIFY W/ BUILDING OWNER) RECOMMENDED HEIGHT 42" A.F.F.

13 ROLL PAPER TOWEL DISPENSER (SURFACE MOUNT); STAINLESS STL. (REFERENCE MFG: ASI MODEL 8522 BARRIER FREE; SATIN FINISHED; VERIFY W/ BUILDING OWNER) PAPER TOWEL DISPENSER ACCESS HEIGHT MAX.48" A.F.F.

14 ELECTRIC HAND (HIGH SPEED) DRYER; AUTOMATIC MOTION SENSOR; SEMI-RECESS WALL MOUNTED UNIT WITHIN STAINLESS STEEL WALL RECESS ACCESSORY ANASI/ADA-HC/"BARRIER FREE" KIT (MFR: XLERATOR MOD. XLERATOR THINAIR ADA 4X16 TA-SB 110/120V W/ XLERATOR WALL GUARD 31X15; COLOR: GRAPHITE (VERIFY WITH OWNER)

15 BABY DIAPER CHANGING STATION (FOLD-OUT TABLE); SIDE WALL SURFACE MOUNTED UNIT; (REFERENCE MFG: ASI 9014) TOP/TABLE MTG. HEIGHT: 33.5" A.F.F.

16 WALL MOUNTED URINAL/PRIVACY (24" WIDTH x 48" HEIGHT; MOUNT BOTTOM EDGE 12" AFF) PARTITIONS (DESIGN WEIGHT SUPPORT 250 lbs); SOLID PHENOLIC CORE PANELS W/ DECORATIVE SURFACE FINISH FACED "HP-PLAM" EACH SIDE (SIM MANUF. "ASI" BLACK CORE PHENOLIC; BASIS OF DESIGN); WALL MOUNTED INSTALLATION WITH CONTINUOUS STAINLESS STEEL WALL-MOUNTING BRACKETS (FULL PANEL LENGTH); PROVIDE FRONT PILASTER AND FULL HEADRAIL CROSS-BRACING

17 WASTE RECEPTACLE W/ DOME-LIP; FLOOR FREE-STANDING; STAINLESS STL. (REFERENCE MFG: BOBRICK: B-2300; BLACK/SATIN FINISHED VERIFY W/ BUILDING OWNER)

18 (TYP) DUAL (HI-LO "BARRIER FREE" ACCESSIBLE) "PUSH-BUTTON" ACTIVATED WATER FOUNTAIN BUBBLER UNIT (WALL MOUNTED); STAINLESS STEEL (REFERENCE MFG: HAWS 1011 W/ STAINLESS STEEL BACK PLATE; PROVIDE BEHIND-WALL MOUNTING PLATES AS NECESSARY (ACCESSIBLE SPOUT AT 36" MAXIMUM ABOVE FINISHED FLOOR)

19 STAINLESS STEEL ACCESS PANELS ALIGN FOR (EACH) P-TRAP SERVICE ACCESS; PROVIDE TAMPER-RESISTANT FASTENERS; (REFERENCE MFG: ZURN ZEMS6199-BX17)

20 HOSE BIB AND STAINLESS STEEL RECESSED NON-FREEZE HOSE BOX W/ TAMPER RESISTANT KEYED-ACCESS DOOR

21 INTERNAL BUILDING DICTATED MAIN DOMESTIC WATER SERVICE SHUT-OFF VALVE W/ RPZ (BACK-FLOW PREVENTER) DEVICE; REFERENCE PLUMBING DRAWING

22 MOP BASIN (NOMINAL 36"X24"); FLOOR MOUNTED PRE-CAST TERRAZZO CONCRETE BASIN W/ STAINLESS STEEL CURB EDGE PROTECTION; HOT/COLD MIXER W/ WALL MOUNTED BUCKET HOOK (REFERENCE PLUMBING DRAWINGS); PROVIDE (FULL WIDTH x 48" HEIGHT) STAINLESS STL BACK WALL SCREEN (ASTM-316L STAINLESS MIN. 18MIls THICKNESS) SINGLE HEM EXPOSED EDGES; SECURE TO WALL WITH APPROPRIATE STAINLESS STL FASTENERS AND CONSTRUCTION ADHESIVE

23 ELECTRIC WATER HEATER – PROPOSED FLOOR MOUNTED LOCATION (GALLON CAPACITY – PLUMBING ENGINEER TO DETERMINE) W/ EXPANSION TANK; PROVIDE DRAINAGE PAN PLUMBING AND PRESSURE RELEASE VALUE "BLOW-OUT" DIRECTED PLUMBING TO NEAREST BUILDING EXTERIOR; (REFERENCE PLUMBING DRAWINGS FOR DETAILED INFORMATION)

24 PROPOSED SURFACE MOUNTED INTERIOR WALL MOUNTED ELECTRICAL (POWER AND LIGHTING) PANEL (APPROXIMATE CENTERLINE LOCATION); PROVIDED THRU WALL ABOVE (OR CENTERED) ELECTRICAL PANEL PVC CONDUIT; (REFERENCE ELECTRICAL ENGINEER DRAWINGS FOR ADDITIONAL DETAILED INFORMATION)

25 EXTERIOR ELECTRICAL MAIN DISTRIBUTION (CENTER) PANEL; APPROXIMATE LOCATION; (REFERENCE ELECTRICAL ENGINEER DRAWINGS FOR ADDITIONAL DETAILED INFORMATION)

26 EXTERIOR ELECTRICAL METER BASE; APPROXIMATE LOCATION; (REFERENCE ELECTRICAL ENGINEER DRAWINGS FOR ADDITIONAL DETAILED INFORMATION)

27 ACCESSIBLE EGRESS WALKWAY EGRESS/ENTRY STOOP TO PROVIDE (FLAT SURFACE NOMINAL 5'0x5'0 AREA) "ARCHITECTURAL BARRIER FREE" FORWARD APPROACH TO DRINKING FOUNTAINS AND ENTRY VESTIBULE (REFERENCE ARCHITECTURAL PLAN 1/GA100 FOR DETAILS AND CIVIL/SITE ENGINEERED DWG'S FOR ADDITION FINISHED GRADE INFOR'N)

28 ALUMINUM FENCING WITH ACCESS GATES; GATES SHALL BE EQUIPPED TO ACCOMMODATE A LOCKING DEVICE (REFERENCE ARCHITECTURAL PLAN 1/GA100 FOR DETAILS)

NOTE:
PARTITION AND ACCESSORIES, MANUFACTURER "ASI" REPRESENTATIVE CONTACT INFORMATION:
KIRBY SOUTHARD PH (770) 923-9227 EMAIL KIRBY@SBASSOC.COM

LEGEND

NREJ INDICATES TYPICAL (NREJ) NON REINFORCED VERTICAL EXPANSION JOINT (REFERENCE 1/A500 FOR DETAIL)

VREJ INDICATES TYPICAL (VREJ) VERTICAL REINFORCED EXPANSION JOINT (REFERENCE 1/A500 FOR DETAIL)

SITE NORTH / PLAN NORTH

1 A100 DIMENSIONAL GROUND (FIRST) FLOOR PLAN – RESTROOMS
SCALE: 1/2" = 1'-0"

GRAPHIC BAR SCALE: (FOOT UNITS)
0 2 4 10
1 3 5

no.	date	revision
A	05/21/24	PROGRESS REVIEWS AND COMMENTS FOR APPROVAL
B	07/3/24	PROGRESS REVIEWS AND COMMENTS FINAL APPROVAL
C	9/9/24	ISSED FOR PRE-BID _ NOT FOR CONSTRUCTION
0	9/13/24	IFC-CODE ENFORCER REVIEW AND APPROVAL FOR PERMIT

THIS SHEET SHOWS BASIC DRAFTING STANDARDS

TOWN OF CAROLINA BEACH NORTH CAROLINA

Digitally signed by Michael L. Saieed, Jr. RA AIA (aka Mitchell)
DN: cn=Michael L. Saieed, Jr. RA AIA (aka Mitchell), o=Design Elements, ou=Architect of Record - NC Lic 8723, email=msaieed@designele.com, c=US
Date: 2024.09.16 15:52:55 -04'00'

Design Elements
M. L. Saieed (Mitchell), RA, AIA, LEED-AP
Architectural Corporation (NC 5137)
1213 Culbreth Drive, Suite 142
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910-452-3334

9/13/2024

MICHAEL LEE SAIEED JR. 8723 REGISTERED ARCHITECT NORTH CAROLINA

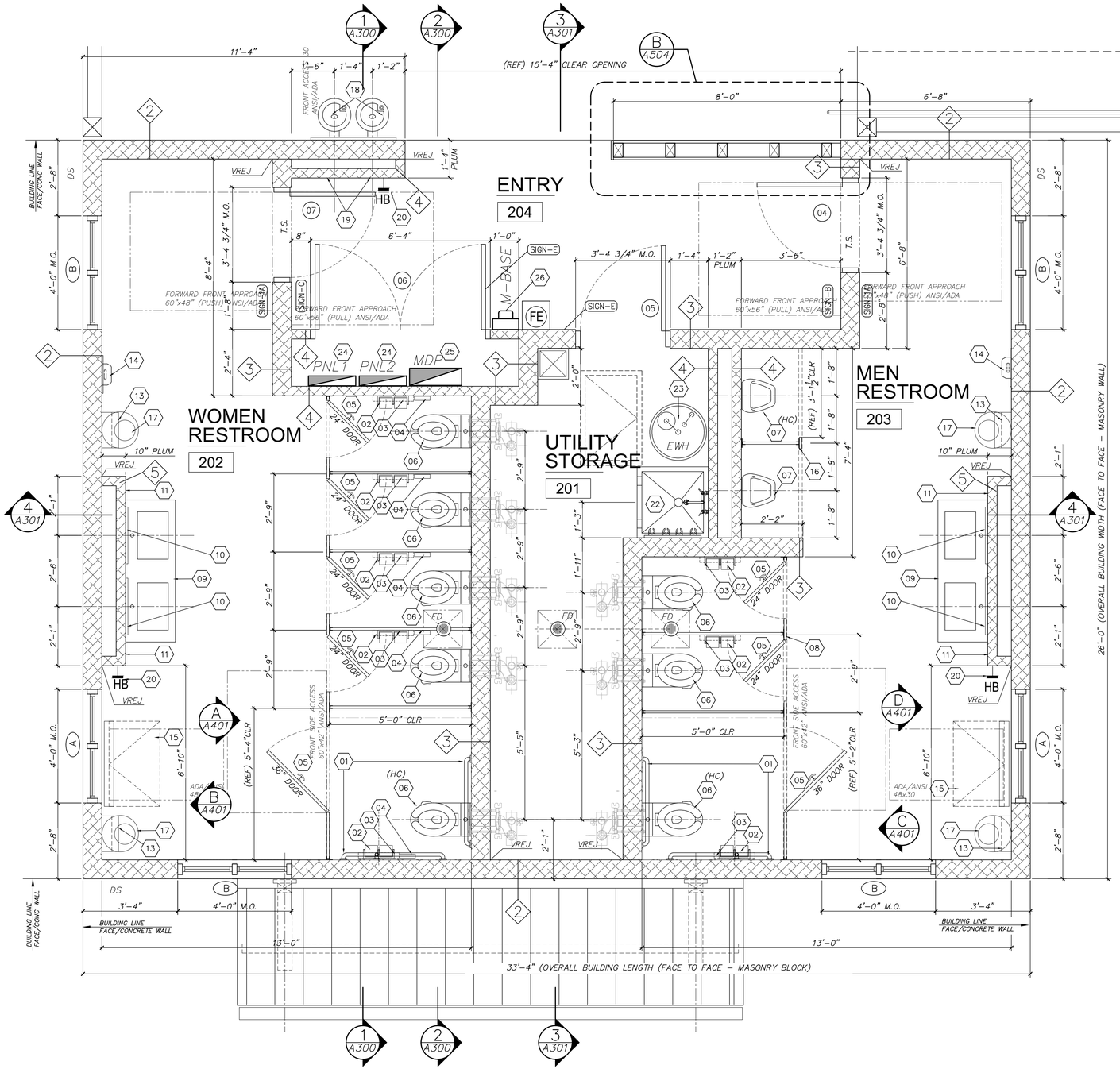
Proposed Public Restroom Facility for
Town of Carolina Beach
CAROLINA BEACH AVE. SOUTH - PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428

job status **Contract Documents - Issue for Construction**

DIMENSIONAL GROUND (1ST) FLOOR PLAN RESTROOMS

date	03 MA7 24
job no.	CB/RESTRM/24
drawn by	MLS/SGH
checked by	MSAIEED
drawing no.	A100
revision no.	0

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DIMENSIONAL SECOND (BEACH STRAND) FLOOR PLAN – RESTROOMS

SITE NORTH / PLAN NORTH — 1 A101 — SCALE: 1/2" = 1'-0"

GRAPHIC BAR SCALE: (FOOT UNITS) 0 2 4 10 / 1 3 5

PLAN KEYNOTES THIS SHEET ONLY

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09 PREMANUFACTURED VANITY UNIT CONCRETE COUNTERTOP (REF; MAUNF. "TRUEFORM" MODEL "FLO–60V–DBL–ADA") W/ TWO (2) INTEGRAL LAVATORIES WITH 4" BACKSPLASH (COLOR SELECTED BY REAL PROPERTY OWNER FROM MANUFACTURER'S STANDARD COLOR SELECTIONS); PROVIDE OPTIONAL OVERFLOW KITS; PROVIDE TWO (2) SINGLE–HOLE FAUCET FIXTURES SETBACK FROM FRONT RIM (MAX. DIST. 19") PROVIDE ELECTRONIC SENSOR ACTIVATED FAUCET CONTROLS. (MAX. RIM HT. 34" A.F.F.) SEE GENERAL ACCESSIBILITY REQUIREMENTS; (REF PLUMBING DWG'S FOR ADDITIONAL INFOR'N); PROVIDE THREE (3) STAINLESS STEEL WALL–MOUNT BRACKETS; (REF. VENDOR "FEDERAL BRACE" MODEL "STREAMLINE COUNTERTOP" 34472 (NOM) 2"(W)x18"x18") PROVIDE STAINLESS STEEL WALL FASTENERS/ EPOXY RENOVATION ANCHORS (MIN.) 3" EMBEDMENT (SIM MANUF. HILTI); PROVIDE TWO (2) MANUFACTURER'S STANDARD STAINLESS STEEL ADA PLUMBING SHIELDS.

10 WALL MOUNTED VANITY MIRROR (SHATTERPROOF/SAFETY) (REFERENCE MFG: ASI: 8026 SERIES); CENTERED TO SINK; (MIN. 24"(W) x 36"(H)). MOUNT BOTTOM EDGE 40" MAX A.F.F.

11 SOAP DISPENSER; STAINLESS STL. SURFACE MOUNTED (REFERENCE MFG: ASI MODEL 0347; SATIN FINISHED VERIFY W/ BUILDING OWNER) RECOMMENDED HEIGHT 42" A.F.F.

13 ROLL PAPER TOWEL DISPENSER (SURFACE MOUNT); STAINLESS STL. (REFERENCE MFG: ASI MODEL 8522 BARRIER FREE; SATIN FINISHED; VERIFY W/ BUILDING OWNER) PAPER TOWEL DISPENSER ACCESS HEIGHT MAX.48" A.F.F.

14 ELECTRIC HAND (HIGH SPEED) DRYER; AUTOMATIC MOTION SENSOR; SEMI–RECESS WALL MOUNTED UNIT WITHIN STAINLESS STEEL WALL RECESS ACCESSORY ANASI/ADA–HC/"BARRIER FREE" KIT (MFR: XLERATOR MOD. XLERATOR THINAIR ADA 4X16 TA–SB 110/120V W/ XLERATOR WALL GUARD 31X15; COLOR: GRAPHITE (VERIFY WITH OWNER)

15 BABY DIAPER CHANGING STATION (FOLD–OUT TABLE); SIDE WALL SURFACE MOUNTED UNIT; (REFERENCE MFG: ASI 9014) TOP/TABLE MT'G. HEIGHT: 33.5" A.F.F.

16 WALL MOUNTED URINAL/PRIVACY (24" WIDTH x 48" HEIGHT; MOUNT BOTTOM EDGE 12" AFF) PARTITIONS (DESIGN WEIGHT SUPPORT 250 lbs); SOLID PHENOLIC CORE PANELS W/ DECORATIVE SURFACE FINISH FACED "HP–PLAM" EACH SIDE (SIM MANUF. "ASI" BLACK CORE PHENOLIC; BASIS OF DESIGN); WALL MOUNTED INSTALLATION WITH CONTINUOUS STAINLESS STEEL WALL–MOUNTING BRACKETS (FULL PANEL LENGTH); PROVIDE FRONT PILASTER AND FULL HEADRAIL CROSS–BRACING

17 WASTE RECEPTACLE W/ DOME–LIP; FLOOR FREE–STANDING; STAINLESS STL. (REFERENCE MFG: BOBRICK: B–2300; BLACK/SATIN FINISHED VERIFY W/ BUILDING OWNER)

18 (TYP) DUAL (HI–LO "BARRIER FREE" ACCESSIBLE) "PUSH–BUTTON" ACTIVATED WATER FOUNTAIN BUBBLER UNIT (WALL MOUNTED); STAINLESS STEEL (REFERENCE MFG: HAWS 1011 W/ STAINLESS STEEL BACK PLATE; PROVIDE BEHIND–WALL MOUNTING PLATES AS NECESSARY (ACCESSIBLE SPOUT AT 36" MAXIMUM ABOVE FINISHED FLOOR)

19 STAINLESS STEEL ACCESS PANELS ALIGN FOR (EACH) P–TRAP SERVICE ACCESS; PROVIDE TAMPER–RESISTANT FASTENERS; (REFERENCE MFG: ZURN ZEMS6199–BX17)

20 HOSE BIB AND STAINLESS STEEL RECESSED NON–FREEZE HOSE BOX W/ TAMPER RESISTANT KEYED–ACCESS DOOR

21 INTERNAL BUILDING DICTATED MAIN DOMESTIC WATER SERVICE SHUT–OFF VALVE W/ RPZ (BACK–FLOW PREVENTER) DEVICE; REFERENCE PLUMBING DRAWING

22 MOP BASIN (NOMINAL 36"X24"); FLOOR MOUNTED PRE–CAST TERRAZZO CONCRETE BASIN W/ STAINLESS STEEL CURB EDGE PROTECTION; HOT/COLD MIXER W/ WALL MOUNTED BUCKET HOOK (REFERENCE PLUMBING DRAWINGS); PROVIDE (FULL WIDTH x 48" HEIGHT) STAINLESS STL BACK WALL SCREEN (ASTM–316L STAINLESS MIN. 18Mils THICKNESS) SINGLE HEM EXPOSED EDGES; SECURE TO WALL WITH APPROPRIATE STAINLESS STL FASTENERS AND CONSTRUCTION ADHESIVE

23 ELECTRIC WATER HEATER – PROPOSED FLOOR MOUNTED LOCATION (GALLON CAPACITY – PLUMBING ENGINEER TO DETERMINE) W/ EXPANSION TANK; PROVIDE DRAINAGE PAN PLUMBING AND PRESSURE RELEASE VALUE "BLOW–OUT" DIRECTED PLUMBING TO NEAREST BUILDING EXTERIOR; (REFERENCE PLUMBING DRAWINGS FOR DETAILED INFORMATION)

24 PROPOSED SURFACE MOUNTED INTERIOR WALL MOUNTED ELECTRICAL (POWER AND LIGHTING) PANEL (APPROXIMATE CENTERLINE LOCATION); PROVIDED THRU WALL ABOVE (OR CENTERED) ELECTRICAL PANEL PVC CONDUIT; (REFERENCE ELECTRICAL ENGINEER DRAWINGS FOR ADDITIONAL DETAILED INFORMATION)

25 EXTERIOR ELECTRICAL MAIN DISTRIBUTION (CENTER) PANEL; APPROXIMATE LOCATION; (REFERENCE ELECTRICAL ENGINEER DRAWINGS FOR ADDITIONAL DETAILED INFORMATION)

26 EXTERIOR ELECTRICAL METER BASE; APPROXIMATE LOCATION; (REFERENCE ELECTRICAL ENGINEER DRAWINGS FOR ADDITIONAL DETAILED INFORMATION)

27 ACCESSIBLE EGRESS WALKWAY EGRESS/ENTRY STOOP TO PROVIDE (FLAT SURFACE NOMINAL 5'0x5'0 AREA) "ARCHITECTURAL BARRIER FREE" FORWARD APPROACH TO DRINKING FOUNTAINS AND ENTRY VESTIBULE (REFERENCE ARCHITECTURAL PLAN 1/GA100 FOR DETAILS AND CIVIL/SITE ENGINEERED DWG'S FOR ADDITION FINISHED GRADE INFOR'N)

28 ALUMINUM FENCING WITH ACCESS GATES; GATES SHALL BE EQUIPPED TO ACCOMMODATE A LOCKING DEVICE (REFERENCE ARCHITECTURAL PLAN 1/GA100 FOR DETAILS)

NOTE:
PARTITION AND ACCESSORIES, MANUFACTURER "ASI" REPRESENTATIVE CONTACT INFORMATION:
KIRBY SOUTHARD PH (770) 923–9227 EMAIL KIRBY@SBASSOC.COM

LEGEND

NREJ INDICATES TYPICAL (NREJ) NON REINFORCED VERTICAL EXPANSION JOINT (REFERENCE 1/A500 FOR DETAIL)

VREJ INDICATES TYPICAL (VREJ) VERTICAL REINFORCED EXPANSION JOINT (REFERENCE 1/A500 FOR DETAIL)

no.	date	revision	
A	05/21/24	PROGRESS REVIEWS AND COMMENTS FOR APPROVAL	C
B	07/3/24	PROGRESS REVIEWS AND COMMENTS FINAL APPROVAL	0
			9/9/24 ISSED FOR PRE–BID NOT FOR CONSTRUCTION
			9/13/24 IFC–CODE ENFORCER REVIEW AND APPROVAL FOR PERMIT

THIS SHEET SHOWS BASIC DRAFTING STANDARDS

Digitally signed by Michael L. Saieed, Jr. RA AIA (aka Mitchell)
DN: cn=Michael L. Saieed, Jr. RA AIA (aka Mitchell), o=Design Elements, ou=Architect of Record - NC Lic 8773, email=msaieed@designelc.com, c=US
Date: 2024.09.16 15:53:48 -04'00'

Design Elements
M. L. Saieed (Mitchell), RA, AIA, LEED-AP
Architectural Corporation | NC 13171
1213 Culbreth Drive, Suite 142
Wilmington, North Carolina 28405
910.452.1334

MICHAEL LEE SAIEED JR. NC REGISTERED ARCHITECT 8773 PRINTED

04/15/2024

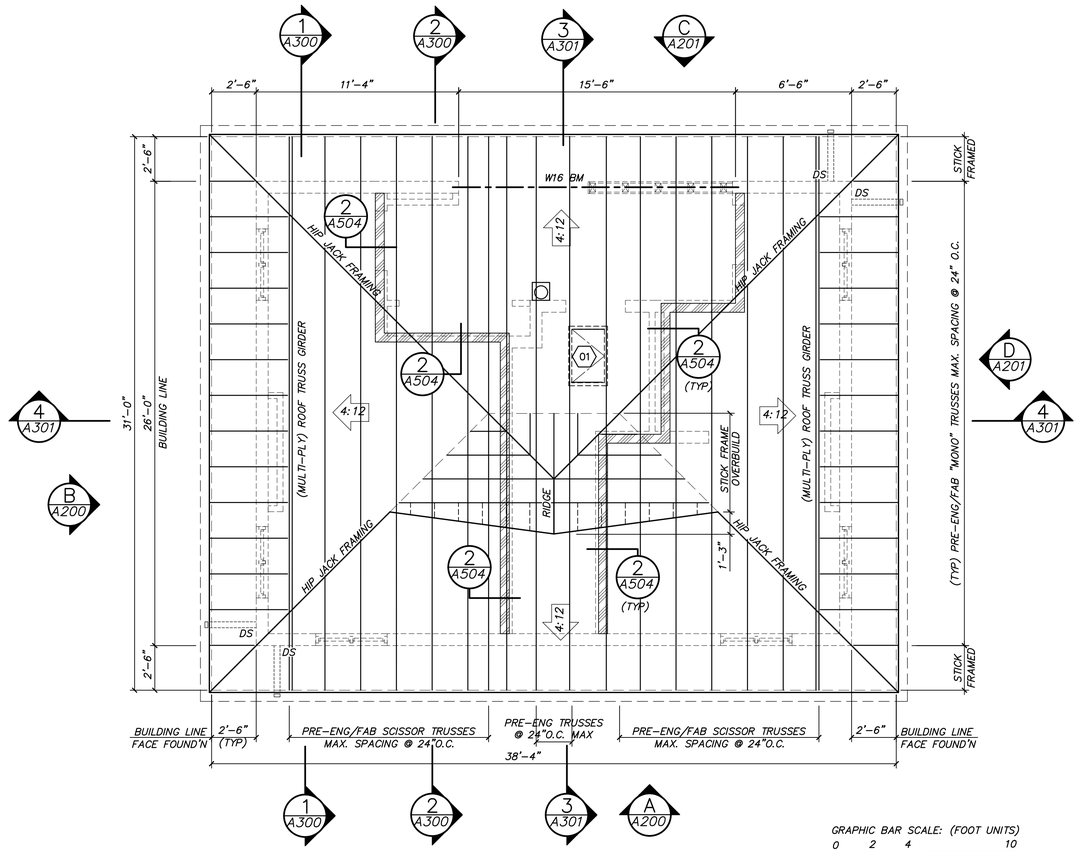
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Proposed Public Restroom Facility for
Town of Carolina Beach
CAROLINA BEACH AVE, SOUTH – PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428

DIMENSIONAL SECOND FLOOR PLAN RESTROOMS
job status **Contract Documents - Issue for Construction**

date 03 MA7 24
job no. CB/RESTRM/24
drawn by MLS/SGH
checked by MSAIEED
drawing no. A101
revision no. 0



GRAPHIC BAR SCALE: (FOOT UNITS)
0 2 4 10
1 3 5

SITE NORTH / PLAN NORTH — 1 A102

SCHEMATIC ROOF FRAMING PLAN

SCALE: 1/4" = 1'–0"

THIS SHEET IS FOR PRESENTATION PURPOSES ONLY AS A SCHEMATIC LAYOUT FOR THE GENERAL CONTRACTOR AND PROPRIETARY ROOF TRUSS SUPPLYING VENDOR. REFERENCE PRE–ENGINEERED ROOF TRUSS MANUFACTURER'S DESIGNED SHOP DRAWINGS FOR ACTUAL QUANTITIES, LOCATIONS AND INSTALLATION OF ROOF TRUSSES. GENERAL CONTRACTOR SHALL COORDINATE TYPICAL ROOF TRUSS END BEARING AND UPLIFT REACTIONS WITH "STRUCTURAL ENGINEER OF RECORD" FOR VERIFYING ADEQUATE TRUSS HANGERS, AND HOLD–DOWN "HURRICANE" CLIPS SIZES AND TRUSS SUPPORTING (LAMINATED VENEER LUMBER) BEAMS; (STRUCTURAL DRAWINGS (ENGINEER OF RECORD) AND PROPRIETARY WOOD TRUSS MANUFACTURE SHOP DRAWINGS SHALL TAKE PRECEDENCE OVER ARCHITECTURAL SCHEMATICS FRAMING AND NOTES)

LEGEND

STL (TYPICAL) W16 STEEL HEADER BEAM, SEE STRUCTURAL DRAWINGS FOR SIZE

(TYPICAL) 2x WALL FRAMED PARTITION; HEIGHT FROM TOP OF MASONRY TO BOTTOM CHORD ROOF TRUSSES AND SUPPLEMENTAL 2x CROSS–TRUSS BLOCK FRAMING AT 16" O/C REFERENCE WALL TYPE ASSEMBLY SHEET AXXX

GENERAL PLAN KEYNOTES

01 ATTIC ACCESS HATCH, (NOM. 23"(W)x36"(L)) UNDER ROOF (NON–CONDITIONED) OPEN ATTIC ACCESS WAY, FIELD VERIFY LOCATION BETWEEN ENGINEERED ROOF TRUSSES; SEE SECTION A/A301

02 OPEN ATTIC ACCESS FIXED MECHANICAL SERVICE WALKWAY/PLATFORM; OVER–(TOP) BUILD CONSTRUCT ACROSS EACH BOTTOM TRUSS CHORDS W/ 2X10 JOIST FRAMING @ MAX 16" O/C; PROVIDE 3/4" PLYWD (APA EXTERIOR GRADE (B–C) STRUCTURAL) SUBSTRATE; SPAN LENGTH PER ROOF PLAN

GENERAL PLAN NOTES

REFERENCE ARCHITECTURAL FLOOR PLAN SHEETS FOR ALL BUILDING DIMENSIONS; SCHEMATIC ARCHITECTURAL ROOF TRUSS FRAMING AND DETAILS ON THESE DRAWINGS SHOW BASIC BUILDING ARRANGEMENTS & WORK POINTS. ACTUAL DESIGN, CONNECTIONS AND MEMBER SIZING SHALL BE BY PROPRIETARY ROOF TRUSS (SUPPLIER/VENDOR) MANUFACTURER AND STRUCTURAL ENGINEER.

REFERENCE ATTACHED SUPPLEMENTAL STRUCTURAL DRAWINGS FOR ADDITIONAL DETAILED ROOF FRAMING INFORMATION; STRUCTURAL DRAWINGS AND PROPRIETARY TRUSS MANUFACTURERS' ENGINEERED SHOP DRAWINGS SHALL TAKE PRECEDENCE OVER ARCHITECTURAL SCHEMATIC FRAMING DRAWINGS

GENERAL CONTRACTOR (G.C.) SHALL HAVE WALL SECTIONS AND ROOF FRAMING SCHEMATIC PLANS REVIEWED BY A PROPRIETARY ROOF MANUFACTURER BEFORE COST ESTIMATING AND CONSTRUCTION BEGINS. (ENGINEERED ROOF SUPPLIER/VENDOR TO PROVIDE G.C. WITH CERTIFY (NC ENGINEERED SEAL) DOCUMENTS & INSTALLATION DETAILS, THAT SHOWS THEIR ROOF SYSTEM IS DESIGNED IN COMPLIANCE TO LATEST EDITION TO 2018 IBC/NCBC & ASCE–7 10; ROOF TRUSS MANUFACTURER WILL SUBMIT FOR APPROVAL SEALED SHOP DRAWINGS AND DESIGN CALCULATIONS BY AN ENGINEER REGISTERED IN N.C..

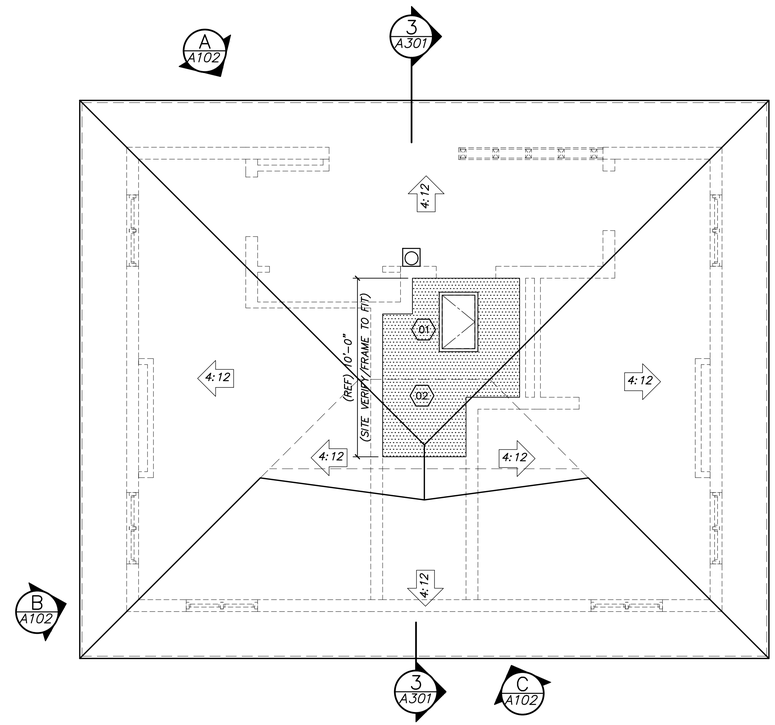
PROVIDE SOLID CROSS BLOCKING BETWEEN ROOF RAFTERS AT INTERSECTING (ALL RIDGE, HIP AND VALLEY LOCATIONS) AND DIFFERENT PLANS (PITCHES) OF ROOF SHEATHING ABUTTING TOGETHER FOR ADEQUATE CONNECTION; AT OVER–BUILT 2x FRAME DORMERS PROVIDE 2x SLEEPERS (TOP BEARING OVER SHEATHING) CUT TO FIT WITH SKEWED/CHAMFER EDGES TO MATCH ROOF PITCH;

THE CONTRACTOR DURING CONSTRUCTION AND ERECTION SHALL ADEQUATELY (TEMPORARY) BRACE AND SUPPORT ALL FRAMING UNTIL ALL CONNECTIONS, PERMANENT BRACING, AND ROOF DECK ARE IN PLACE (COMPLETED) AND THE BUILDING IS STABILIZED.

ROOF SHEATHING 15/32" APA STRUCTURAL–1 RATED EXP–1 GRADE PANELS OR APPROVED EQUAL. PLACE WITH LONG DIMENSION PERPENDICULAR TO FRAMING. STAGGER END JOINTS. FASTEN WITH STAINLESS STEEL (316SS) FULL ROUNDED HEAD 8d "RING–SHANK" NAILS AT 6" O.C. AT ALL SUPPORTED EDGES, EXCEPT WITHIN THE FIRST 5' FROM ROOF EDGE. FASTENERS WITHIN THE FIRST 5' SHALL BE AT 4" O.C. REFERENCE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION; MOST RESTRICTIVE SHALL TAKE PRECEDENCE

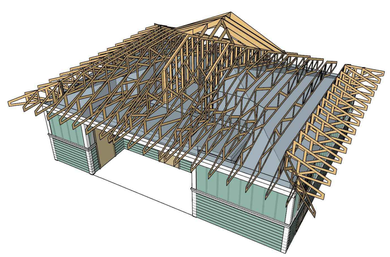
PROVIDE SELF–ADHERED PLIABLE MEMBRANE SHEET FLASHING OVER PLYWD ROOF SHEATHING @ EACH EAVE, RIDGE, HIP, VALLEY AND HEAD WALL INTERSECTIONS (REFERENCE ARCH SHEET A500 KEYNOTE [02]) MIN. 40 MIL, NOMINAL 12" WIDE) EXTEND–LAP BEYOND INTERSECTIONS (MIN. 8"W. HORZ.) & (NOM. 8"W. VERT.) MIN. PRESSURE SEAL TAPE EACH PLYWOOD ROOF SHEATHING JOINT (HIGH PERFORMANCE/HEAT RESISTANCE "SBS RUBBERIZED ASPHALTIC" MEMBRANE MIN. 40 MIL, NOMINAL 16"WIDE)

MECHANICAL & PLUMBING DESIGNER–CONTRACTOR(S) TO COORDINATE WITH (G.C.) ANY PROPOSED DUCTWORK AND PIPING DESIGNS RUNNING THRU ROOF TRUSSES. COORDINATION OF THE MECHANICAL/PLUMBING DESIGNS SHALL BE REVIEWED WITH PROPRIETARY "TRUSS MANUFACTURER" FOR THEIR ALLOWABLE CLEAR ROUGH OPENING SIZES AND HORZ. LOCATIONS THRU ROOF TRUSS WEB FRAMING



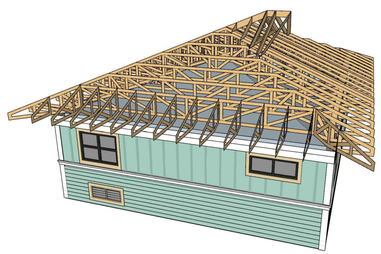
2 A102 SCHEMATIC ROOF PLAN

SCALE: 1/8" = 1'–0"



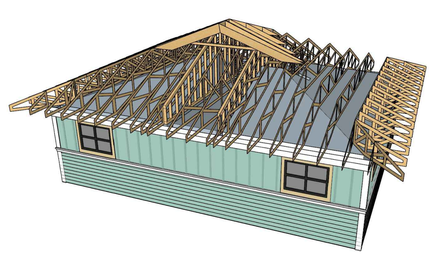
A A102 EAST VIEW

NOT TO SCALE



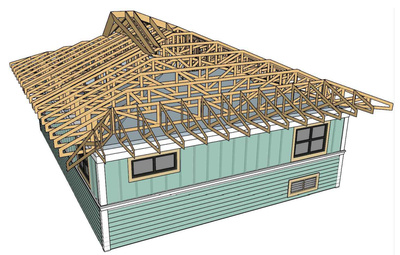
B A102 NORTH VIEW

NOT TO SCALE



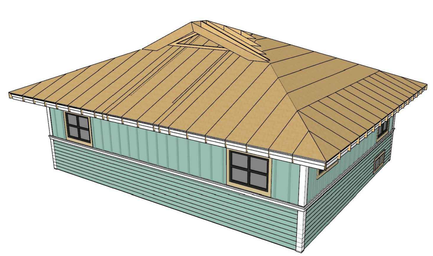
C A102 WEST VIEW

NOT TO SCALE



D A102 SOUTH VIEW

NOT TO SCALE



E A102 SHEATHING VIEW

NOT TO SCALE

no.	date	revision	C	9/9/24	ISSED FOR PRE–BID _ NOT FOR CONSTRUCTION
A	05/21/24	PROGRESS REVIEWS AND COMMENTS FOR APPROVAL	0	9/13/24	IFC–CODE ENFORCER REVIEW AND APPROVAL FOR PERMIT
B	07/3/24	PROGRESS REVIEWS AND COMMENTS FINAL APPROVAL			

THIS SHEET SHOWS BASIC DRAFTING STANDARDS

TOWN OF CAROLINA BEACH NORTH CAROLINA

Digitally signed by Michael L. Saieed, Jr. RA AIA (aka Mitchell)
DN: cn=Michael L. Saieed, Jr. RA AIA (aka Mitchell), o=Design Elements, ou=Architect of Record – NC Lic 8773, email=msaieed@designele.com, c=US
Date: 2024.09.16 15:54:49 -04'00'

Design Elements
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1213 Culbreth Drive, Suite 140
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910. 509. 3131

09/13/2024

MICHAEL LEE SAIEED JR. 36 BACON STATE OF NORTH CAROLINA REGISTERED ARCHITECT

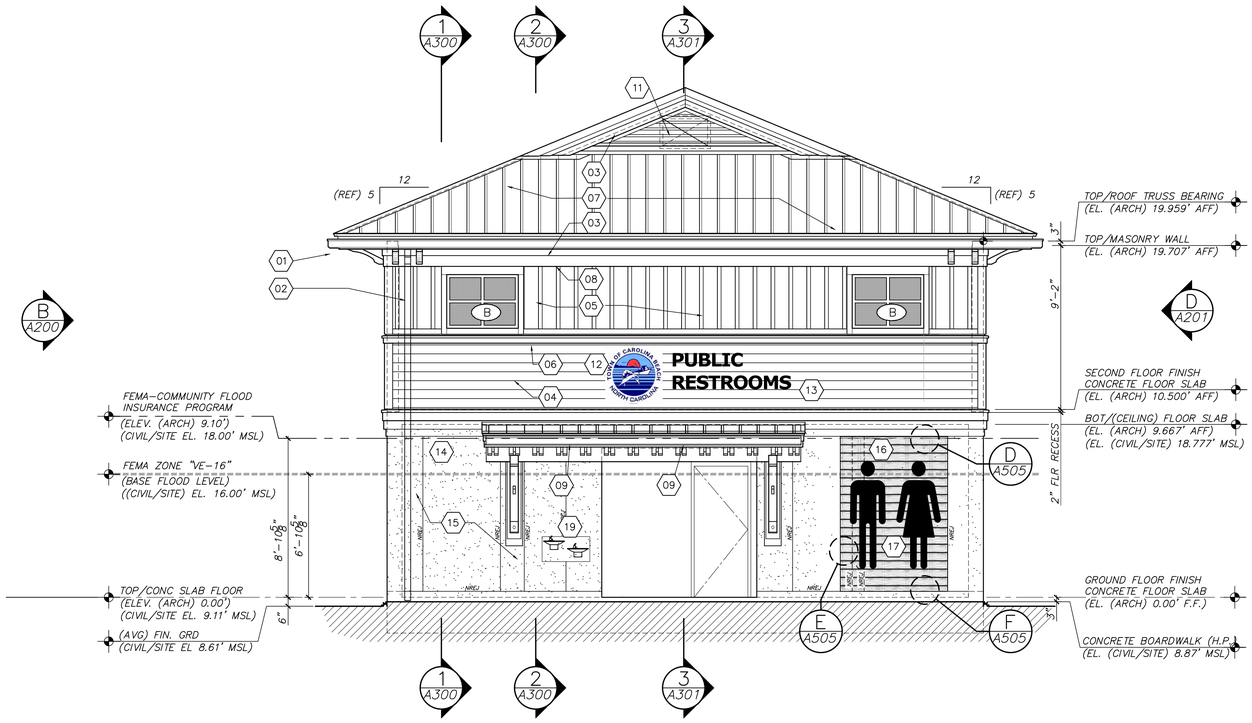
Proposed Public Restroom Facility for
Town of Carolina Beach
CAROLINA BEACH AVE, SOUTH – PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428

ROOF FRAMING PLAN

job status **Contract Documents - Issue for Construction**

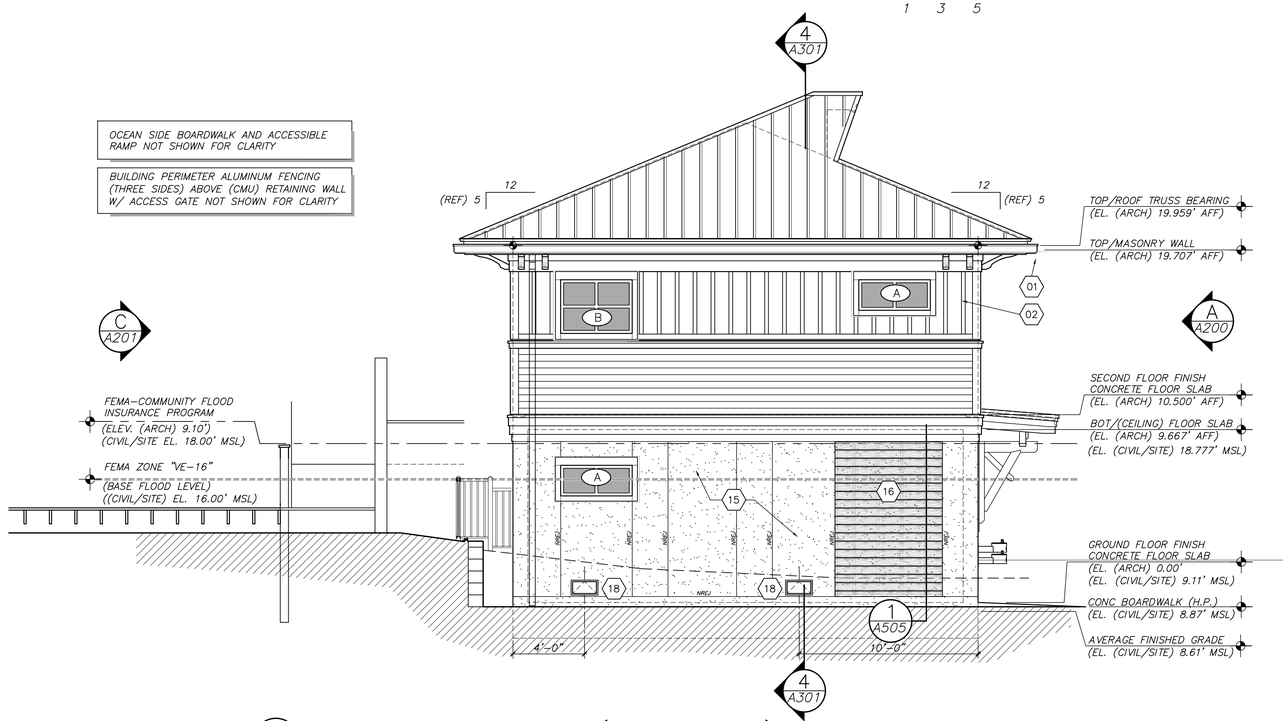
date	03 MA7 24
job no.	CB/RESTRM/24
drawn by	MLS/SGH
checked by	MSAIEED
drawing no.	A102
revision no.	0

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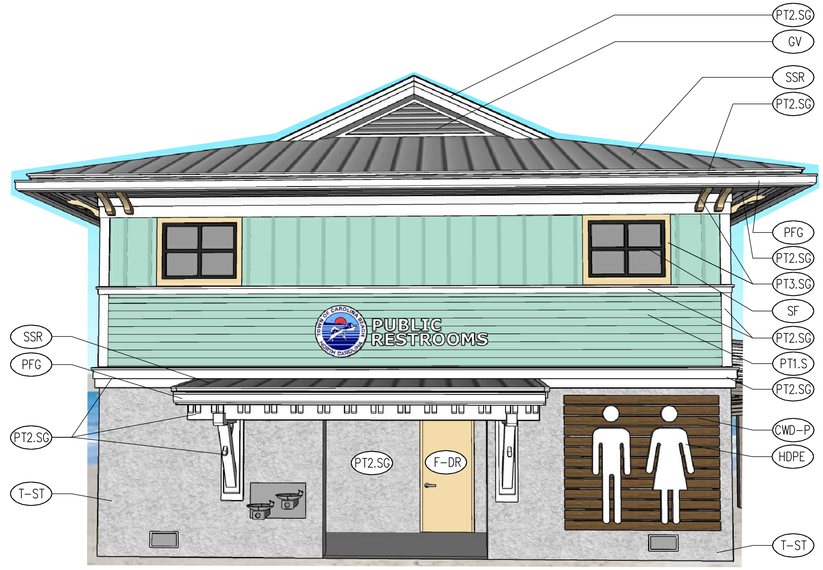


A A200 WEST ELEVATION (BOARDWALK SIDE) GRAPHIC BAR SCALE: (FOOT UNITS)
SCALE: 1/4" = 1'-0"

0 2 4 10
1 3 5



B A200 NORTH ELEVATION (LEFT SIDE)
SCALE: 1/4" = 1'-0"



C A200 (TYPICAL) ARCHITECTURAL CONCEPTURAL ELEVATION COLOR SCHEME FINISH
NOT TO SCALE

EXTERIOR FINISH LEGEND

KEY	ITEM	DESCRIPTION	REMARKS
EXTERIOR			
F-DR	FIBERGLASS DOOR AND FRAME	HEAVY-DUTY REINFORCED PULTRUDED FIBERGLASS	MANUF: TIGER DOORS COLOR: SELECTED BY OWNER; MANUF. FULL RANGE OF STANDARD AND OPTIONAL COLORS
PT1.S	PAINT - SATIN SHEEN	REFERENCE "ABBREVIATED PAINT SPECIFICATION"	EXTERIOR SIDING; COLOR MATCH BENJAMIN MOORE HC-138 "COVINGTON BLUE"
PT2.SG	PAINT - SEMI-GLOSS SHEEN	REFERENCE "ABBREVIATED PAINT SPECIFICATION"	EXTERIOR TRIM, SOFFIT; COLOR MATCH BENJAMIN MOORE OC-53 "HORIZON" EXTERIOR ENTRY CONCRETE/CMU WALL; COLOR MATCH BENJAMIN MOORE OC-53 "HORIZON"
PT3.SG	PAINT - SEMI-GLOSS SHEEN	REFERENCE "ABBREVIATED PAINT SPECIFICATION"	EXTERIOR WINDOW TRIM, EXTERIOR ROOF BRACKET; COLOR MATCH BENJAMIN MOORE HC-28 "SHELBURNE BUFF"
PFG	PREFINISHED ALUMINUM GUTTER	REFERENCE SHEET "A201" FOR ADDITIONAL INFO'M	COLOR: WHITE
SSR	STANDING SEAM METAL ROOF	REFERENCE SHEET "A500" FOR ADDITIONAL INFO'M	COLOR MATCH BERRIDGE MANUFACTURING "CITYSCAPE" (LIGHT GREY) CONFIRM COLOR SELECTION WITH OWNER
SF	PREFINISHED ALUMINUM WINDOW	REFERENCE SHEET "A500" FOR ADDITIONAL INFO'M	FRAME: ALUMINUM COLOR: BLACK BRONZE TINT INSULATED GLAZING
GV	PREFINISHED ALUMINUM VENT	REFERENCE SHEET "A500" FOR ADDITIONAL INFO'M	FRAME: ALUMINUM; CUSTOM FABRICATED TO FIT COLOR: BLACK
CWD-P	COMPOSITE WOOD PLANKS	COMPOSITE WOODGRAIN PLANKS W/ STAINLESS STEEL (ASTM316) "CONCEALOC" HIDDEN FASTENERS	MANUF: AZEK "TIMBERTECH" DECK COLOR: DARK ROAST
HDPE	CUSTOM PICTOGRAM	HIGH DENSITY POLYETHYLENE PANEL	MANUF: KING PLASTIC CO. "STARBOARD AS" TREDSAFE MARINE BOARD; COLOR: WHITE; 3/4" THICK "EMBOSSED DOT" TEXTURE
FV	FLOOD VENT	REFERENCE SHEET "A500" FOR ADDITIONAL INFO'M	STAINLESS STEEL VENT FRAME; COLOR: GRAY
T-ST	OYSTER SHELL TABBY STUCCO	REFERENCE SHEET "A500" FOR ADDITIONAL INFO'M	STUCCO TOPCOAT WITH DEEPLY EMBEDDED OYSTER SHELLS EVENLY DISTRIBUTED THROUGHOUT; LOW PROFILE TEXTURE

ELEVATION LEGEND

(TYPICAL KEYNOTES FOR SHEETS: A200 AND A201 ONLY)

(#) INDICATES (TYPICAL) ELEVATION MATERIALS AND ARCHITECTURAL BUILDING COMPONENTS; REFERENCE SHEET A201 FOR DESCRIPTIVE KEYNOTES

NREJ INDICATES TYPICAL NON-REINFORCED VERTICAL EXPANSION (SOFT) JOINT FOR BREAK-AWAY WALLS (REFERENCE 1/A500 FOR DETAIL)

no.	date	revision
C	9/9/24	ISSED FOR PRE-BID - NOT FOR CONSTRUCTION
0	9/13/24	IFC-CODE ENFORCER REVIEW AND APPROVAL FOR PERMIT
A	05/21/24	PROGRESS REVIEWS AND COMMENTS FOR APPROVAL
B	07/3/24	PROGRESS REVIEWS AND COMMENTS FINAL APPROVAL

THIS SHEET SHOWS BASIC DRAFTING STANDARDS

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1213 Culbreth Drive, Suite 142
Wilmington, North Carolina 28405
910.509.1317

13/2024

MICHAEL LEE SAIEED JR. ON NOVEMBER 13, 2024

Proposed Public Restroom Facility for
Town of Carolina Beach
CAROLINA BEACH AVE. SOUTH - PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428

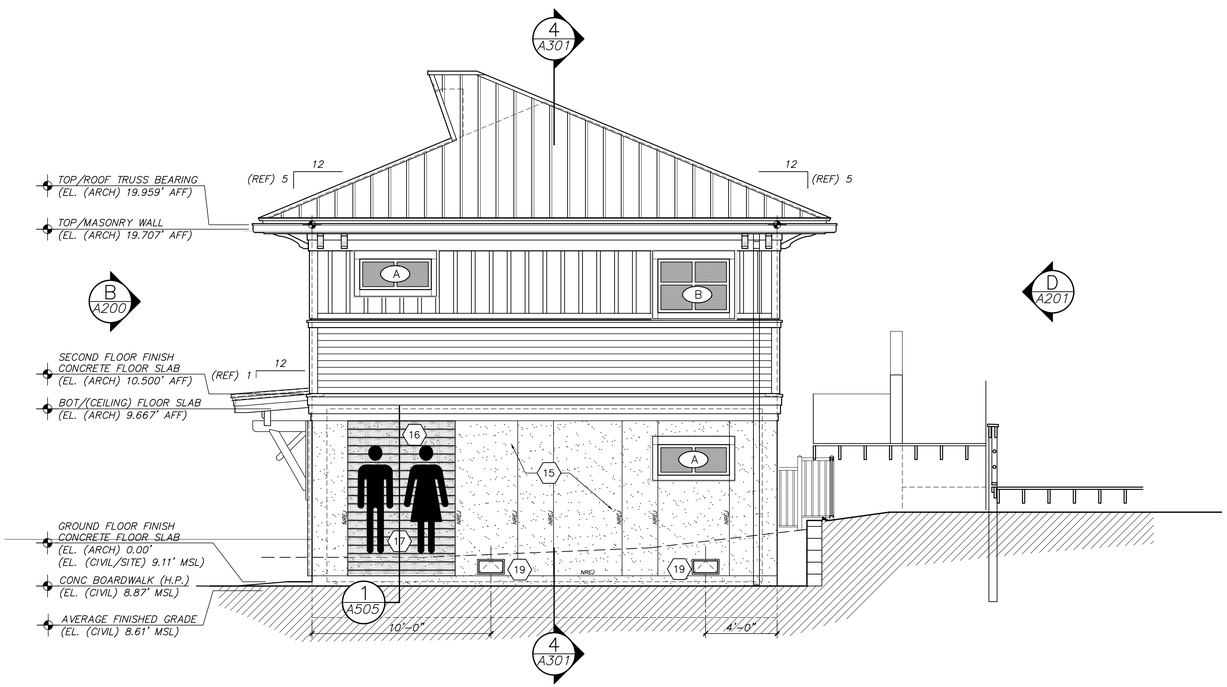
WEST AND NORTH BUILDING ELEVATIONS

Contract Documents - Issue for Construction

job status

date	03 MAY 24
job no.	CB/RESTRM/24
drawn by	MLS/SGH
checked by	MSAIEED
drawing no.	A200
revision no.	0

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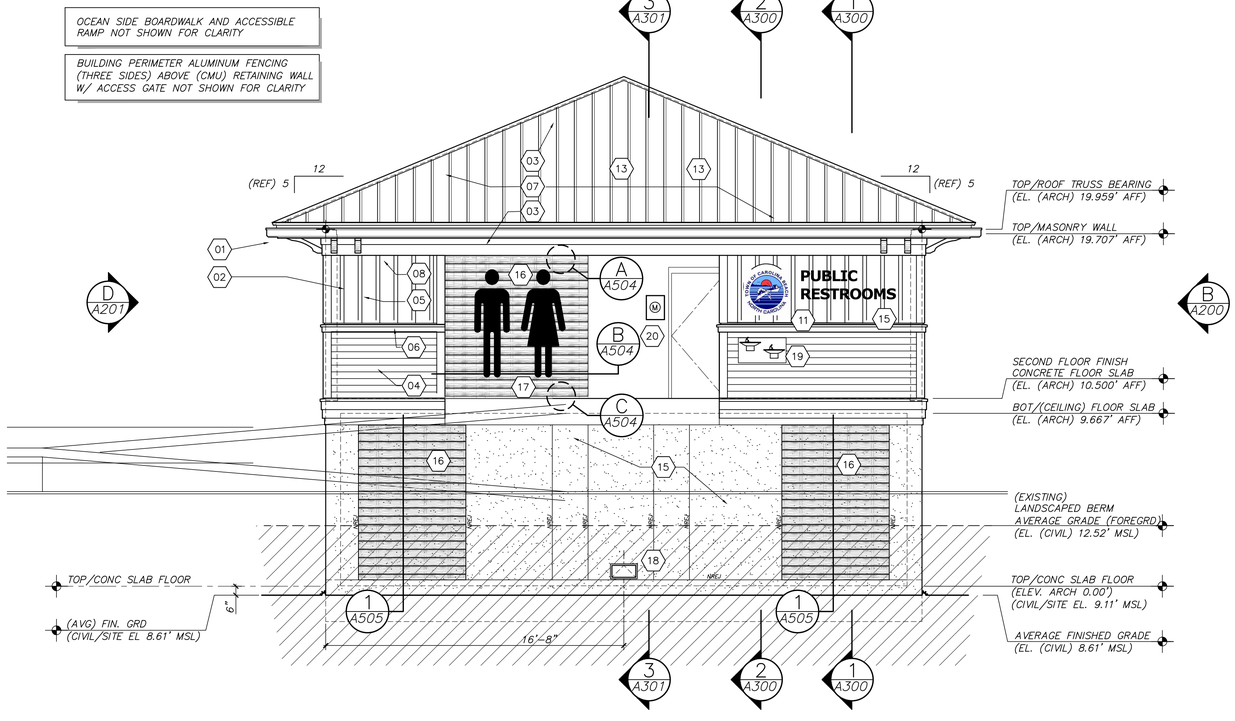


B A200 SOUTH ELEVATION (RIGHT SIDE)

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

OCEAN SIDE BOARDWALK AND ACCESSIBLE RAMP NOT SHOWN FOR CLARITY

BUILDING PERIMETER ALUMINUM FENCING (THREE SIDES) ABOVE (CMU) RETAINING WALL W/ ACCESS GATE NOT SHOWN FOR CLARITY



C A201 EAST ELEVATION (OCEAN FRONT SIDE)

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

GRAPHIC BAR SCALE: (FOOT UNITS)

0 2 4 10

1 3 5

ELEVATION KEYNOTES

(TYPICAL KEYNOTES FOR SHEETS: A200 AND A201 ONLY)

01 (TYPICAL) CONTINUOUS BOX GUTTER; WITH DOWNSPOUT TRANSITION; PRE-FINISHED METAL (REFERENCE TYPICAL WALL SECTIONS SHEETS)

02 (TYPICAL) NOMINAL 2x4 PRE-FINISHED ALUMINUM DOWNSPOUT (DS); SECURE W/ COLOR MATCH CONNECTION METAL STRAPS AT EACH 1/3 POINT VERTICAL WALL HEIGHT; PROVIDE CLOSED TRANSITION CONNECTION TO UNDERGROUND STORM-WATER DRAINAGE SYSTEM; (UNLESS DIRECTED OTHERWISE) (COLOR: "WHITE") REFERENCE TYPICAL WALL SECTION FOR ADDITIONAL INFOR'N

03 (TYP. EXTERIOR FINISHING) CONTINUOUS BUILT-UP CELLULAR/PVC ROOF EDGE FASCIA AND DRIP EDGE TRIM BOARDS; WOOD-GRAIN TEXTURE, REFERENCE TYPICAL WALL SECTION

04 (TYP. EXTERIOR FINISHING) – CEMENTITIOUS FIBER/REINF (SIMULATED NATURAL FINISHED/WOOD GRAIN) "ARCHITECTURAL LAPPED SIDING" MIN. 4" EXPOSURE (REFERENCE MFR. TECH GUIDES FOR PROPER INSTALLATION AND HIGH WIND FASTENER TYPES/PATTERNS OVER FIBER-MESH MAT DRAINAGE PLANE) PRE-PRIMED & COLOR (BUILDING OWNER SELECT COLOR) REFERENCE TYPICAL WALL SECTION FOR DETAILS

05 (TYP. EXTERIOR FINISHING) CEMENTITOUS FIBER/REINF VERTICAL "BOARD AND BATTEN" (SURFACE FACE SMOOTH APPEARANCE); BATTENS @ 16" O/C; (REF MFR. TECH GUIDES FOR PROPER INSTALLATION AND HIGH WIND FASTENER TYPES/PATTERNS) OVER FIBER-MESH MAT DRAINAGE PLANE) PRE-PRIMED & COLOR (BUILDING OWNER SELECT COLOR) REFERENCE TYPICAL WALL SECTION FOR DETAILS

06 (TYP. EXTERIOR FINISHING) CONTINUOUS BUILT-UP CELLULAR/PVC AND 2x WAINSCOT ACCENT BANDING (SURFACE FACE SMOOTH APPEARANCE), PRE-PRIMED AND PAINTED TO MATCH LAPPED SIDING; REFERENCE TYPICAL WALL SECTION FOR ADDITIONAL INFOR

07 (TYP. EXTERIOR FINISHING) ARCHITECTURAL METAL ROOF; PRE-FINISHED STANDING SEAM (REVEAL RIB) PANELS WITH CONCEALED (TWO PART) EXPANSION HOLD-DOWN CLIPS (BUILDING OWNER SELECT COLOR) REFERENCE TYPICAL WALL SECTIONS FOR ADDITIONAL DETAILS

08 (TYP. EXTERIOR FINISHING) WIDE FASCIA/FRIEZE BOARD; BOTTOM EDGE RABBETED TO RECEIVE FLUSH PANEL SIDING; REFERENCE TYPICAL WALL SECTION)

09 TYPICAL (BUILDING SERVICE ENTRY/EXIT) EXTERIOR ARCHITECTURAL "LOW PROFILE" COMMERCIAL (LED) (UNDER CANOPY) WALL SCONCE DOWN LIGHTING FIXTURES; DIE-CAST-ALUMINUM SEALED HOUSING WITH POLYCARBONATE (VANDAL RESISTANCE) OPTICAL LEN; DUSK TO DAWN CONTROL; SURFACE MOUNTED (LIGHTING STYLE SUBMITTAL SHALL APPROVAL BY BUILDING OWNER; (REFERENCE ELECTRICAL DRAWINGS) (COLOR: WHITE

10 TYPICAL (BUILDING SERVICE ENTRY/EXIT) EXTERIOR ARCHITECTURAL "LOW PROFILE" COMMERCIAL (LED) WALL SCONCE DOWN LIGHTING FIXTURES; DIE-CAST-ALUMINUM SEALED HOUSING WITH POLYCARBONATE (VANDAL RESISTANCE) OPTICAL LEN; DUSK TO DAWN CONTROL; SURFACE MOUNTED (LIGHTING STYLE SUBMITTAL SHALL APPROVAL BY BUILDING OWNER; BOTTOM OF FIXTURE MOUNT (MIN) 80" A.F.F. (REFERENCE ELECTRICAL DRAWINGS) (COLOR: WHITE)

11 (TYP) CUSTOM SIZED PRE-FINISHED ALUMINUM FRAMED GABLE VENT; STORM (WIND/RAIN) RESISTANCE "ZEE" PROFILE DRAIN-ABLE LOUVER BLADES W/ INSECT SCREEN; VENT SHALL COMPLY WITH AMCA 540 "STANDARDS FOR HURRICANE RATING" AND AMCA 550 "HIGH VELOCITY WIND/RAIN RESISTANT" PROTECTION OF OPENINGS IN WIND-BORNE DEBRIS REGIONS, (IMPACT RESISTANT OR PROTECTED WITH AN IMPACT-RESISTANT COVERING) (REFERENCE MECHANICAL DRAWINGS AND ICC/IBC 2018 NCBC SECTION 1609.1.2.1 FOR ADDITIONAL INFORMATION) PROVIDE BACK SHIELD "SKEWED" STAINLESS STL COUNTER FLASHING WEATHER GUARD/PAN WITH SILL AND SIDE FLANGES (UNLESS OTHERWISE NOTED) COLOR: MATCH EXTERIOR WINDOW FRAMES: DARK BRONZE)

12 CUSTOM SIGNAGE, SECURELY FASTENED TO FACADE (PROVIDE APPROPRIATE STAINLESS STEEL (ASTM-316) FASTENERS); CAROLINA BEACH LOGO, SAND BLASTED GRAPHIC; BUILDIG OWNER SHALL REVIEW AND APPROVE

13 BUILDING IDENTIFICATION (NAME: PUBLIC RESTROOM – UNLESS NOTED OTHERWISE)
PROVIDE AN APPROVAL (ASSIGNED BY LOCAL AUTHORITY HAVING JURISDICTION) SUBMITTAL; (RAISED) WALL MOUNTED TO EXTERIOR BUILDING FACADE AND POSITION TO BE PLAINLY LEGIBLE AND VISIBLE FORM THE BOARDWALK (OR) ROAD FRONTING THE PROPERTY LINE (PUBLIC ACCESS WAY) BUILDING NAME CHARACTERS SHALL BE "HELICA-BOLD" LETTERS AT (MIN) 12" HEIGHT WITH A (MIN) STROKE WIDTH 3/4"; SECURE (RAISED) CHARACTERS WITH APPROPRIATE STAINLESS STEEL (ASTM-316) FASTENERS, (BUILDING OWNER TO SPEC COLOR)

14 BUILDING PREMISES IDENTIFICATION (PHYSICAL ADDRESS)
PROVIDE AN APPROVAL (ASSIGNED BY LOCAL AUTHORITY HAVING JURISDICTION) STREET ADDRESS NUMBER; WALL MOUNTED TO EXTERIOR BUILDING FACADE AND POSITION TO BE PLAINLY LEGIBLE AND VISIBLE FORM THE BOARDWALK (OR) ROAD FRONTING THE PROPERTY LINE (PUBLIC ACCESS WAY) BUILDING ADDRESS NUMBERS SHALL BE CONTRASTING WITH THE FINISHED BUILDING FACADE (BACKGROUND SIDING). BUILDING ADDRESS CHARACTERS SHALL BE "ARABIC (OR) ALPHABETICAL LETTERS" AT (MIN) 6" HEIGHT WITH A (MIN) STROKE WIDTH 3/4"; SECURE ADDRESS CHARACTERS WITH APPROPRIATE NON-CORROSIVE FASTENERS, (REFERENCE ICC/IBC/NCFC-2018 SECTION 505)

15 BUILDING FACADE "OYSTER SHELL" STUCCO TOPCOAT.
Conventional stucco over masonry surfaces may be applied with two or three coats.

Three-coat systems consist of:
- first coat = 3/8 inch thick, second (brown) coat = 3/8 inch thick, and finish coat (Crushed Oyester Shells) over both masonry and cast concrete.

Installation:
Install stainless steel (ASTM 316) dimple expanded metal lath secured to masonry/concrete w/ appropriate type/size fasteners (provide fender washers); Nominal system shall be 3/8" scratch; 3/8" brown coat; provide continuous stainless steel drainable weep screed termination (Nom.) 1-inch "Ground" and 5-inch top leg.

Tabby Shell Stucco Topcoat using Crushed Oyster Shells:
1. Towards the end of mixing the topcoat, add oyster shells until they are consistently distributed throughout the stucco.
2. Use a trowel to apply a layer of the topcoat stucco to the walls, The layer should be about the same thickness as the oyster shells and applied with firm pressure. Ensure oyster shells are deeply embedded as necessary to prevent sharp edges.
3. Provide 3'0x3'0 On-Site Mock-Up for review and approval.

16 (TYP. EXTERIOR PARTITION SCREEN/ WALL CLADDING) – ACCENT PANEL WALL (SIMULATED NATURAL RECLAIMED FINISHED/WOOD GRAIN LOOK) HORIZONTAL HIGH-PERFORMANCE (FADE/STAIN/MOISTURE RESISTANT) PVC PLANKING, (PROPRIETARY PLANKING MANUFACTURE: TIMBER_TEC "RESERVE COLLECTION" COLOR: DARK ROAST; PROVIDE PROPRIETARY MANUFACTURER'S STAINLESS STEEL (ASTM 316) "CONCEALOC" HIDDEN FASTENER AND SCREW SYSTEM ASSEMBLY; (REFERENCE DETAIL B/A701; SECTION 1/A505 AND KEYNOTE [17] ON SHEET A500 FOR ADDITIONAL INFORMATION)

17 BUILDING PICTOGRAM IDENTIFICATION: (MALE AND FEMALE) NOMINAL 30"(W)x72"(H) SILHOUETTE; CUSTOM DESIGN FROM HIGH DENSITY POLYETHYLENE (HDPE) PANELS: (REFERENCE DETAIL B/A701 FOR ADDITIONAL INFOR)

18 (TYP) FLOOD VENT; NOMINAL SIZE: 8"(H) x 16"(W) 200 SQFT RATED COVERAGE/VENT; FEMA COMPLIANT ICC-ES CERTIFIED ENGINEERED; STAINLESS STEEL THRU WALL VENT/FRAME; INSULATED OPERABLE PROTECTION DAMPER; (COLOR: GRAY) REFERENCE SHEET A501 WALL SECTION 1/A501

19 (TYP) DUAL (HI-LO "BARRIER FREE" ACCESSIBLE) "PUSH-BUTTON" ACTIVATED WATER FOUNTAIN BUBBLER UNIT (WALL MOUNTED); STAINLESS STEEL (REFERENCE MFG: HAWS 1011 W/ STAINLESS STEEL BACK PLATE; PROVIDE BEHIND-WALL MOUNTING PLATES AS NECESSARY (ACCESSIBLE SPOUT AT 36" MAXIMUM ABOVE FINISHED FLOOR) (REF. HC ACCESSIBILITY DETAILS A/N100)

20 EXTERIOR ELECTRICAL METER BASE; APPROXIMATE LOCATION; (REFERENCE ELECTRICAL ENGINEER DRAWINGS FOR ADDITIONAL DETAILED INFORMATION)

ELEVATION LEGEND

(#) INDICATES (TYPICAL) ELEVATION MATERIALS AND ARCHITECTURAL BUILDING COMPONENTS; REFERENCE SHEET A201 FOR DESCRIPTIVE KEYNOTES

NREJ INDICATES TYPICAL NON-REINFORCED VERTICAL EXPANSION (SOFT) JOINT FOR BREAK-AWAY WALLS (REFERENCE 1/A500 FOR DETAIL)

no.	date	revision		
C	9/9/24	ISSED FOR PRE-BID – NOT FOR CONSTRUCTION		
0	9/13/24	IFC-CODE ENFORCER REVIEW AND APPROVAL FOR PERMIT		
A	05/21/24	PROGRESS REVIEWS AND COMMENTS FOR APPROVAL		
B	07/3/24	PROGRESS REVIEWS AND COMMENTS FINAL APPROVAL		

THIS SHEET SHOWS BASIC DRAFTING STANDARDS

TOWN OF CAROLINA BEACH NORTH CAROLINA

Design Elements
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Architectural Corporation (NC 31371)
1213 Culbreth Drive, Suite 142
Wilmington, North Carolina 28405
910-509-3337

09/13/2024

MICHAEL LEE SAJEED JR. ON BEHALF OF DESIGN ELEMENTS PROFESSIONAL ENGINEER NORTH CAROLINA 31371

Proposed Public Restroom Facility for

Town of Carolina Beach

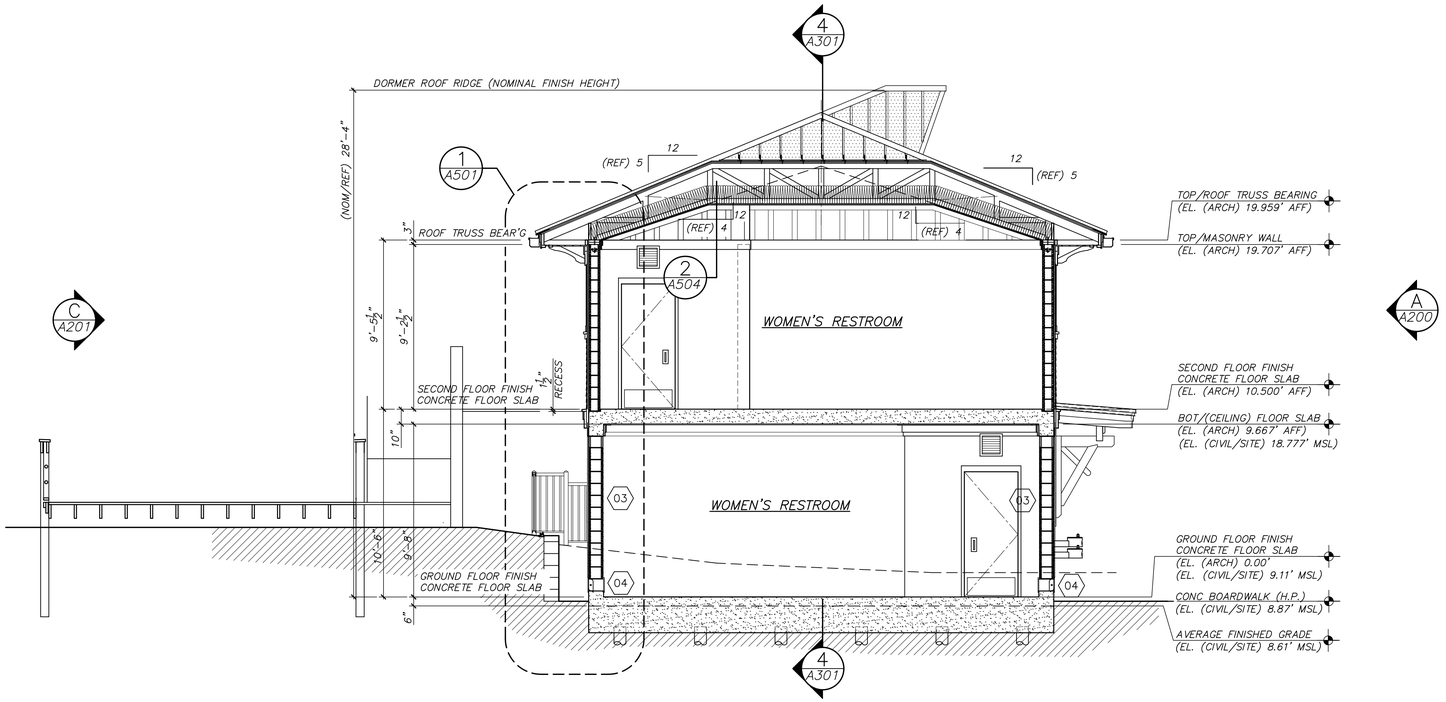
CAROLINA BEACH AVE. SOUTH – PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428

EAST AND SOUTH BUILDING ELEVATIONS

job status: **Contract Documents - Issue for Construction**

date	03 MAY 24
job no.	CB/RESTRM/24
drawn by	MLS/SGH
checked by	MSAIEED
drawing no.	A201
revision no.	0

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1 A300 BUILDING CROSS SECTION

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

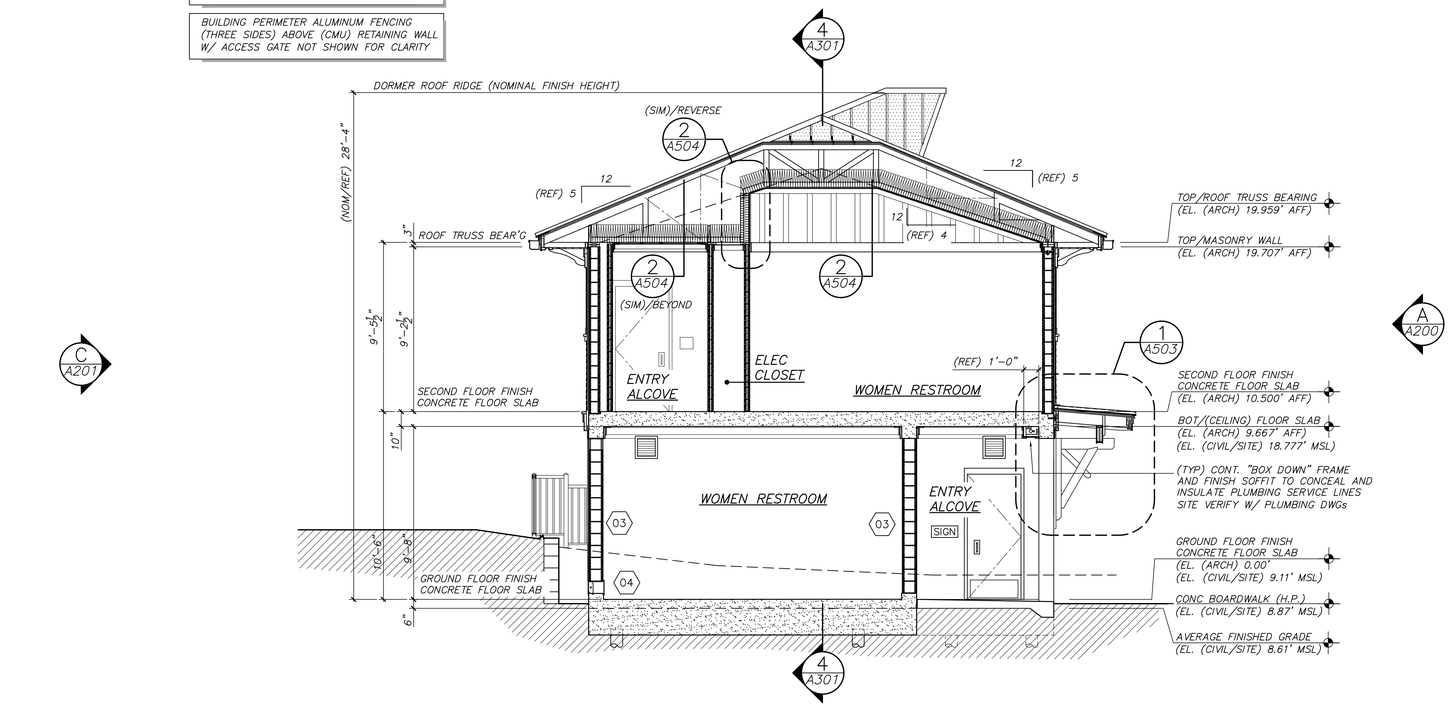
GRAPHIC BAR SCALE: (FOOT UNITS)

0 2 4 10

1 3 5

OCEAN SIDE BOARDWALK AND ACCESSIBLE RAMP NOT SHOWN FOR CLARITY

BUILDING PERIMETER ALUMINUM FENCING (THREE SIDES) ABOVE (CMU) RETAINING WALL W/ ACCESS GATE NOT SHOWN FOR CLARITY



2 A300 BUILDING CROSS SECTION

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

no.	date	revision	C	9/9/24	ISSED FOR PRE-BID _ NOT FOR CONSTRUCTION
A	05/21/24	PROGRESS REVIEWS AND COMMENTS FOR APPROVAL	0	9/13/24	IFC-CODE ENFORCER REVEW AND APPROVAL FOR PERMIT
B	07/3/24	PROGRESS REVIEWS AND COMMENTS FINAL APPROVAL			

(TYP) 2x OPEN WEB MANUFACTURE/ENGINEERED TRUSS WEB CONFIGURATION ARE ARCHITECTURALLY SHOWN AS SCHEMATIC PRESENTATION ONLY! REFER TO PROPRIETARY TRUSS MANUFACTURER'S ENGINEERED SHOP DRAWINGS FOR ACTUAL REPRESENTATION.

BUILDING SECTION KEYNOTES

01 SERVICE ACCESS PLATFORM; OVER-(TOP) BUILD CONSTRUCT ACROSS EACH BOTTOM TRUSS CHORDS W/ 2x10 JOIST FRAMING @ MAX 16" O/C; PROVIDE 3/4" PLYWD (APA EXTERIOR GRADE (B-C) STRUCTURAL) SUBSTRATE; SPAN LENGTH PER ROOF PLAN 2/A102; FINISHED PATHWAY EXTEND FULL WIDTH OF SERVICE PLATFORM OPENING SPACE)

02 REINFORCED (PLUMBING FIXTURE) CONCRETE STEM WALL; REFERENCE STRUCTURAL DRAWINGS FOR DETAILS

03 (TYP) BREAKAWAY WALL; REFERENCE ARCHITECTURAL WALL SECTION 1/A501 AND STRUCTURAL DRAWINGS FOR DETAILS

04 (TYP) FLOOD VENT; NOMINAL SIZE: 8"(H) x 16"(W) REFERENCE SHEET A501 WALL SECTION 1/A501 AND ELEVATION SHEETS A200 AND A201 FOR LOCATIONS

THIS SHEET SHOWS BASIC DRAFTING STANDARDS

TOWN OF CAROLINA BEACH NORTH CAROLINA

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MICHAEL LEE SAIEED JR. ON HOLD
PROFESSIONAL
NORTH CAROLINA
ARCHITECT
5137
WILMINGTON, NC

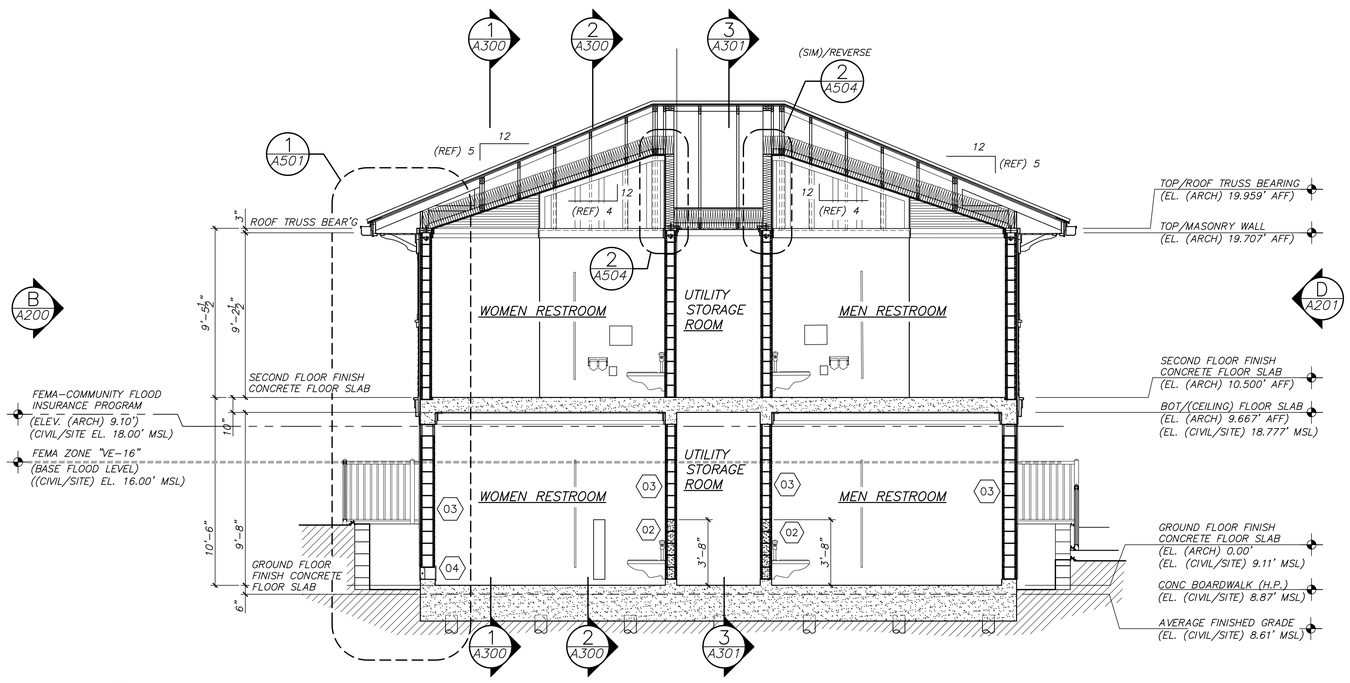
Proposed Public Restroom Facility for
Town of Carolina Beach
CAROLINA BEACH AVE, SOUTH - PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428

job status **Contract Documents - Issue for Construction**

BUILDING CROSS SECTIONS

date	03 MA7 24
job no.	CB/RESTRM/24
drawn by	MLS/SGH
checked by	MSAIEED
drawing no.	A300
revision no.	0

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4 A301 BUILDING CROSS SECTION
SCALE: 1/4" = 1'-0"

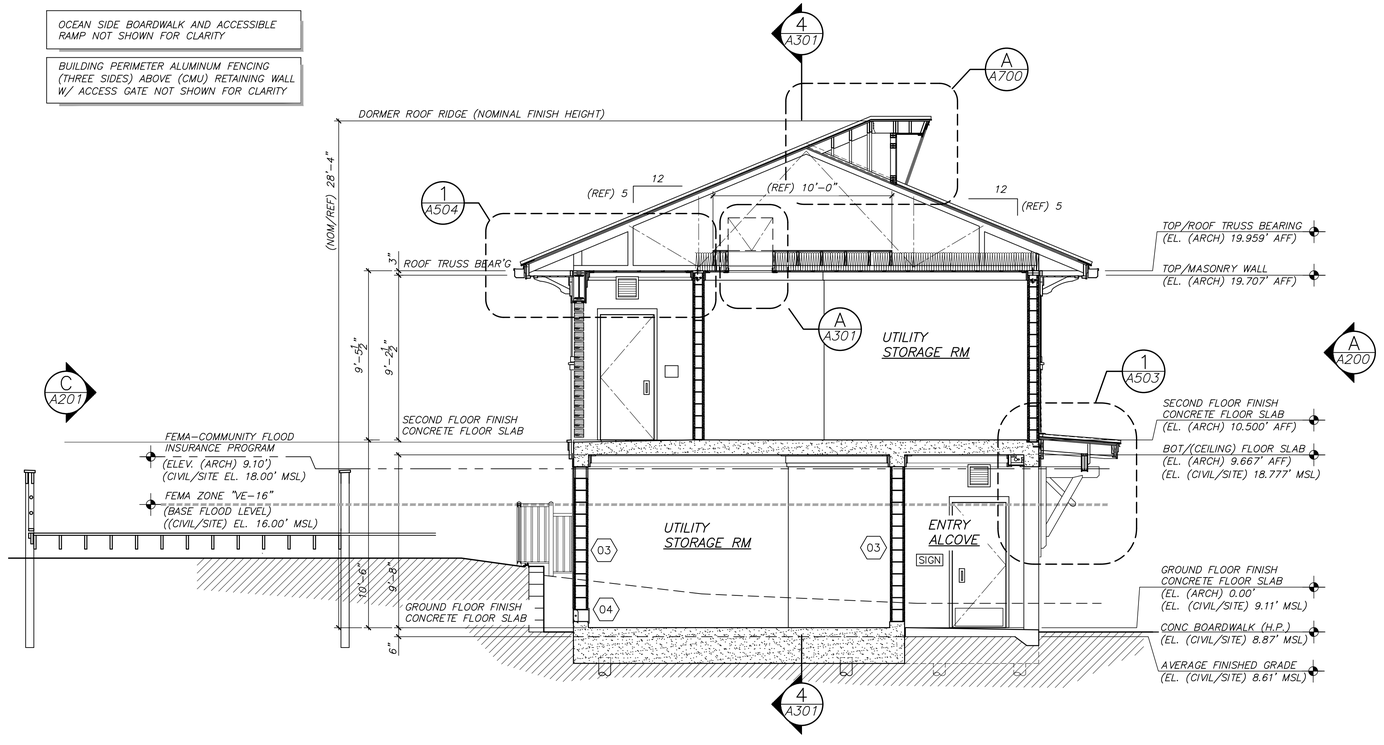
(TYP) 2x OPEN WEB MANUFACTURE/ENGINEERED TRUSS WEB CONFIGURATION ARE ARCHITECTURALLY SHOWN AS SCHEMATIC PRESENTATION ONLY! REFER TO PROPRIETARY TRUSS MANUFACTURER'S ENGINEERED SHOP DRAWINGS FOR ACTUAL REPRESENTATION.

BUILDING SECTION KEYNOTES

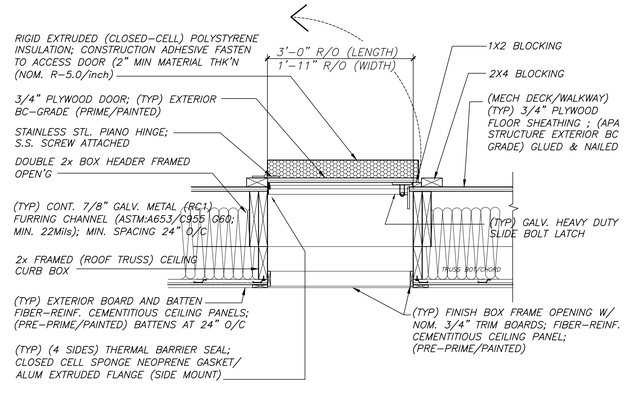
(#) ASSIGNED KEYNOTE NOTATION; REFERENCES ELEVATION SHEET A300 FOR DENOTED KEYNOTE DETAIL INFORMATION

OCEAN SIDE BOARDWALK AND ACCESSIBLE RAMP NOT SHOWN FOR CLARITY

BUILDING PERIMETER ALUMINUM FENCING (THREE SIDES) ABOVE (CMU) RETAINING WALL W/ ACCESS GATE NOT SHOWN FOR CLARITY



3 A301 BUILDING CROSS SECTION
SCALE: 1/4" = 1'-0"



A A301 (TYPICAL) MECHANICAL ACCESS HATCH DETAIL
SCALE: 1" = 1'-0"

no.	date	revision
A	05/21/24	PROGRESS REVIEWS AND COMMENTS FOR APPROVAL
B	07/3/24	PROGRESS REVIEWS AND COMMENTS FINAL APPROVAL
C	9/9/24	ISSED FOR PRE-BID — NOT FOR CONSTRUCTION
0	9/13/24	IFC-CODE ENFORCER REVIEW AND APPROVAL FOR PERMIT

THIS SHEET SHOWS BASIC DRAFTING STANDARDS

Design Elements
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13/2024

MICHAEL LEE SAIEED JR. 5137 REGISTERED ARCHITECT NORTH CAROLINA

Proposed Public Restroom Facility for
Town of Carolina Beach
CAROLINA BEACH AVE. SOUTH – PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428

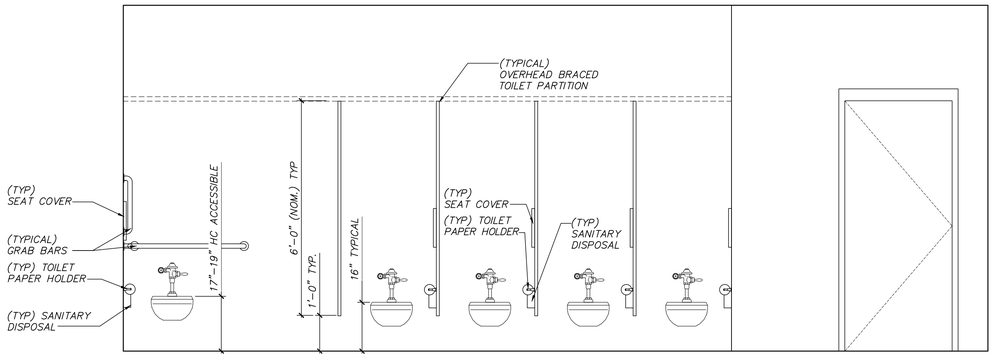
BUILDING CROSS SECTIONS

Contract Documents - Issue for Construction

job status

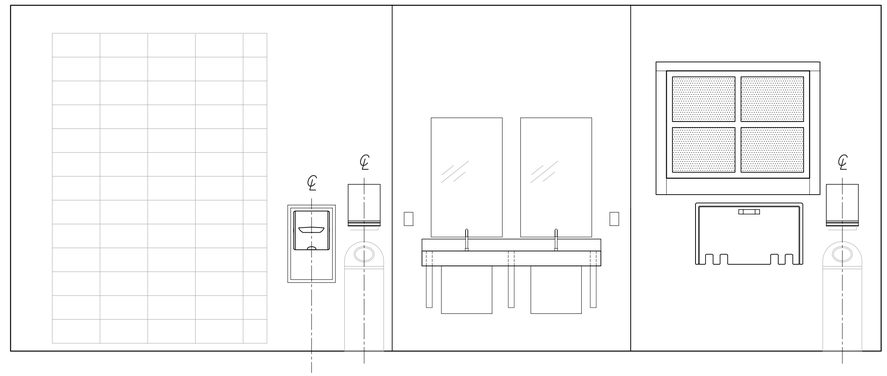
date	03 MA7 24
job no.	CB/RESTRM/24
drawn by	MLS/SGH
checked by	MSAIEED
drawing no.	A301
revision no.	0

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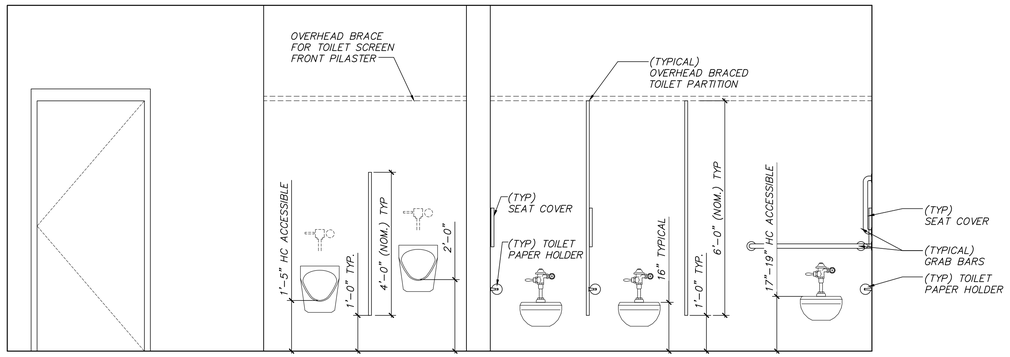
A A400 WOMEN'S RESTROOM ELEVATIONS — FIRST FLOOR

SCALE: 1/2" = 1'–0"



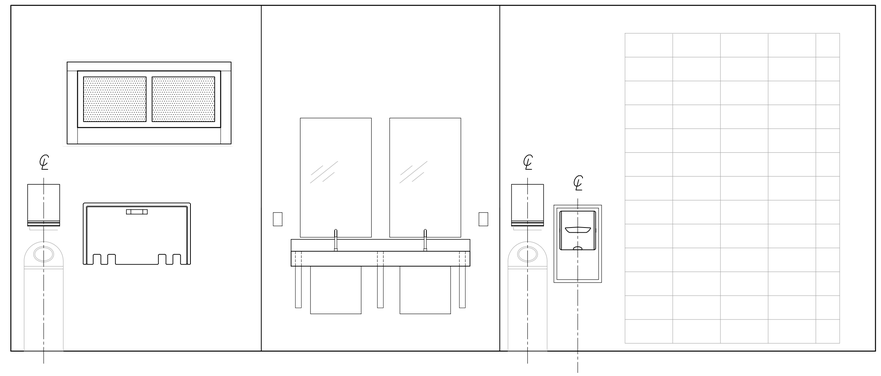
B A400 WOMEN'S RESTROOM ELEVATIONS— FIRST FLOOR

SCALE: 1/2" = 1'–0"



C A400 MEN'S RESTROOM ELEVATIONS — FIRST FLOOR

SCALE: 1/2" = 1'–0"



D A400 MEN'S RESTROOM ELEVATIONS— FIRST FLOOR

SCALE: 1/2" = 1'–0"

no.	date	revision		
A	05/21/24	PROGRESS REVIEWS AND COMMENTS FOR APPROVAL	C	9/9/24	ISSED FOR PRE-BID — NOT FOR CONSTRUCTION
B	07/3/24	PROGRESS REVIEWS AND COMMENTS FINAL APPROVAL	0	9/13/24	IFC–CODE ENFORCER REVIEW AND APPROVAL FOR PERMIT

TOWN OF CAROLINA BEACH NORTH CAROLINA

THIS SHEET SHOWS BASIC DRAFTING STANDARDS

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12/2024

MICHAEL LEE SAIEED JR. 13772 REGISTERED ARCHITECT NORTH CAROLINA

Proposed Public Restroom Facility for

Town of Carolina Beach

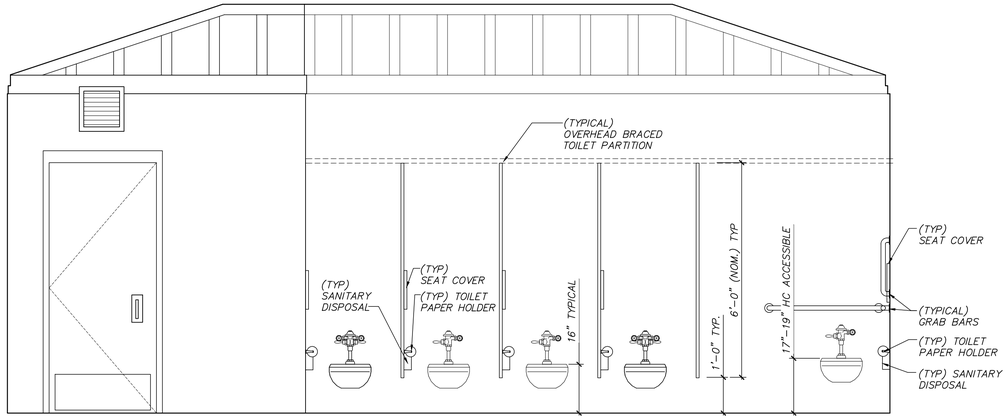
CAROLINA BEACH AVE. SOUTH – PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428

IFIRST (GROUND LEVEL) NTERIOR ELEVATIONS

job status **Contract Documents - Issue for Construction**

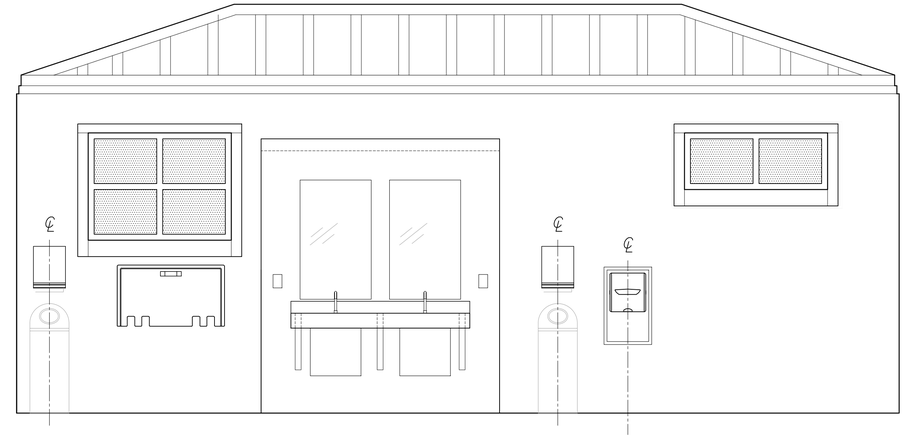
date 03 MA7 24
job no. CB/RESTRM/24
drawn by MLS/SGH
checked by MSAIEED
drawing no. A400
revision no. 0

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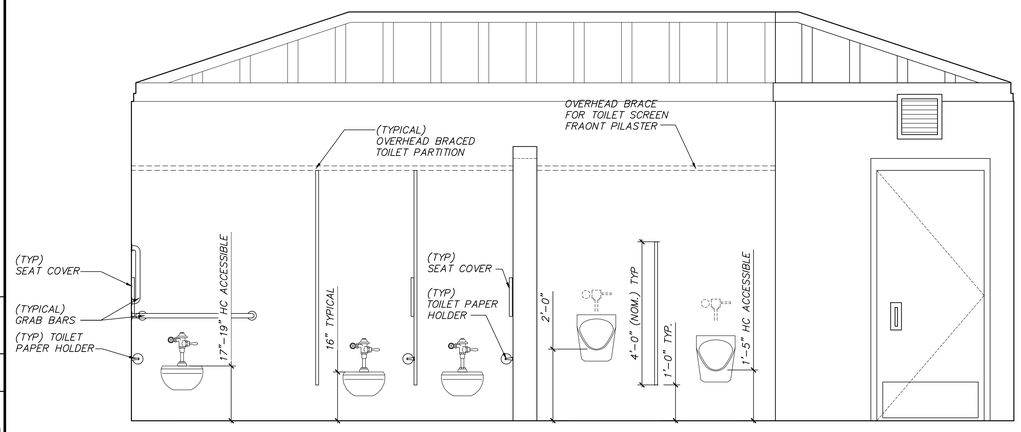
A A401 WOMEN'S RESTROOM ELEVATIONS — SECOND FLOOR

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



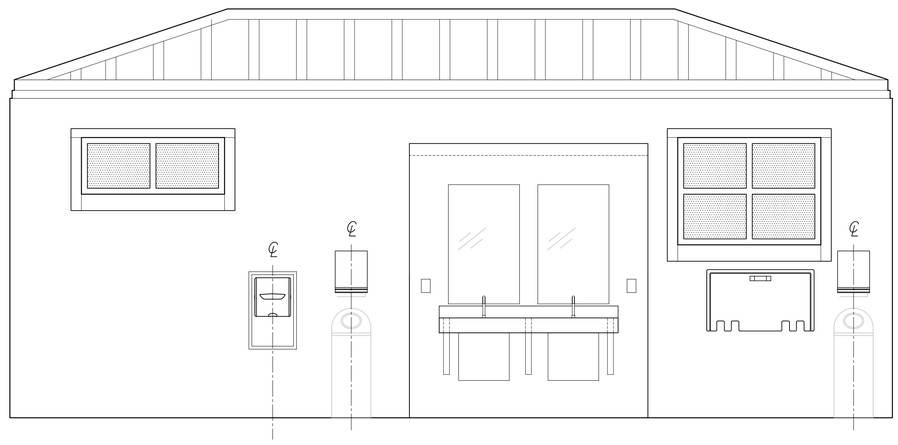
B A401 WOMEN'S RESTROOM ELEVATIONS — SECOND FLOOR

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



C A401 MEN'S RESTROOM ELEVATIONS — SECOND FLOOR

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



D A401 MEN'S RESTROOM ELEVATIONS — SECOND FLOOR

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

no.	date	revision	C	9/9/24	ISSED FOR PRE-BID — NOT FOR CONSTRUCTION
A	05/21/24	PROGRESS REVEWS AND COMMENTS FOR APPROVAL	0	9/13/24	IFC-CODE ENFORCER REVIEW AND APPROVAL FOR PERMIT
B	07/3/24	PROGRESS REVEWS AND COMMENTS FINAL APPROVAL			

THIS SHEET SHOWS BASIC DRAFTING STANDARDS

TOWN OF CAROLINA BEACH NORTH CAROLINA

Design Elements
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910.509.5313

9/13/2024

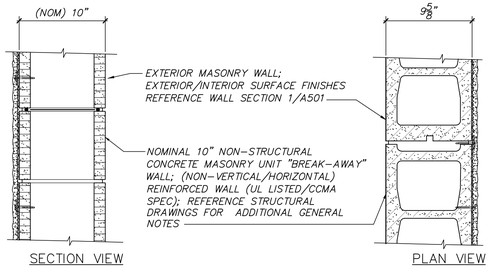
MICHAEL LEE SAIEED JR. NC ARCHITECT REGISTERED PROFESSIONAL SEAL 22772

Proposed Public Restroom Facility for
Town of Carolina Beach
CAROLINA BEACH AVE. SOUTH - PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428
job status **Contract Documents - Issue for Construction**

SECOND (BEACH STRAND) INTERIOR ELEVATIONS

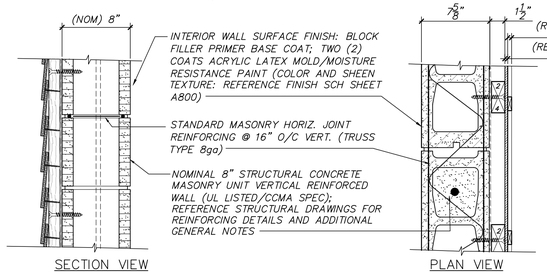
date 03 MA7 24
job no. CB/RESTRM/24
drawn by MLS/SGH
checked by MSAIEED
drawing no. A401
revision no. 0

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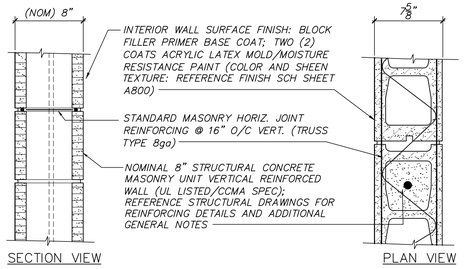
EXTERIOR (NON-LOAD BEARING) "BREAK-AWAY" CONCRETE MASONRY UNIT WALL

◇1 WALL TYPE



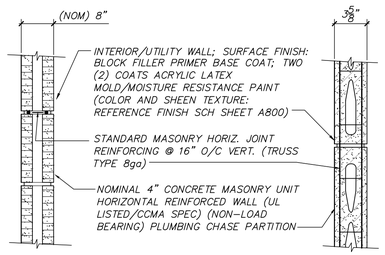
EXTERIOR (LOAD BEARING AND NON-LOAD BEARING) CONCRETE MASONRY UNIT STRUCTURAL WALL

◇2 WALL TYPE



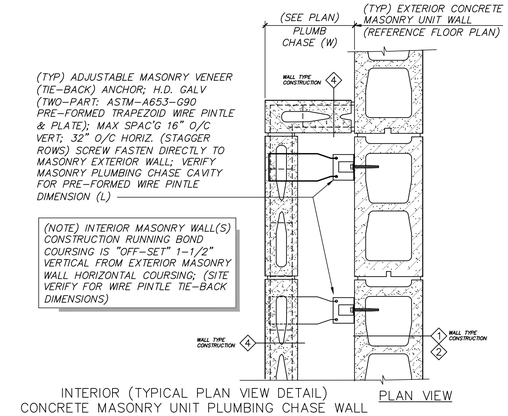
INTERIOR (LOAD BEARING AND NON-LOAD BEARING) CONCRETE MASONRY UNIT STRUCTURAL WALL

◇3 WALL TYPE



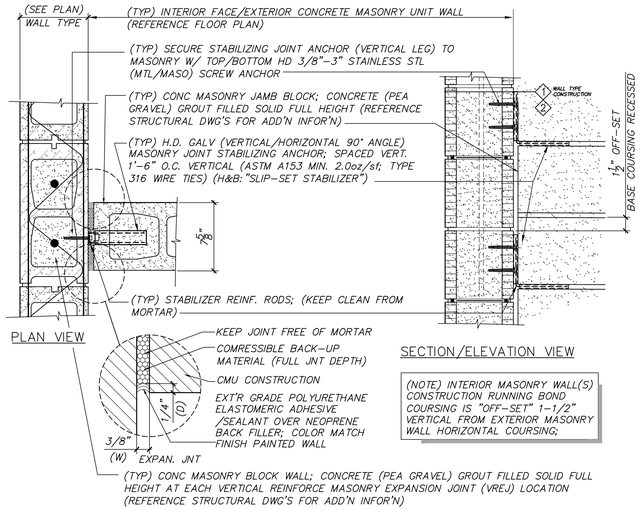
INTERIOR (NON-LOAD BEARING) CONCRETE MASONRY UNIT PLUMBING CHASE WALL

◇4 WALL TYPE

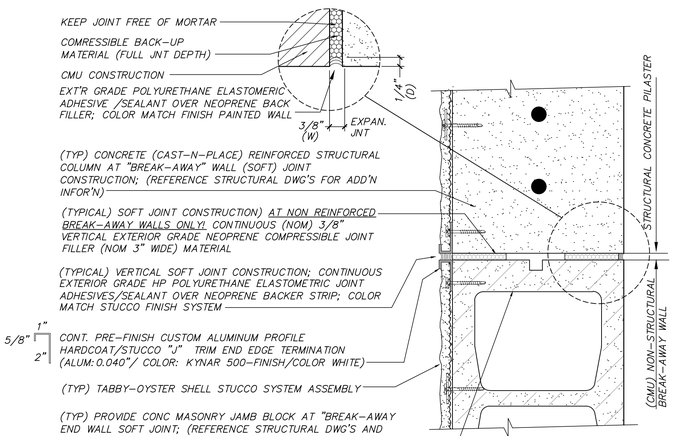


INTERIOR (TYPICAL PLAN VIEW DETAIL) CONCRETE MASONRY UNIT PLUMBING CHASE WALL

◇5 WALL TYPE



TYPICAL (VREJ) VERTICAL REINFORCED EXPANSION JOINT



TYPICAL (NREJ) NON REINFORCED VERTICAL EXPANSION JOINT

SCALE: 3" = 1'-0"

1/A500 (TYPICAL) WALL TYPES CONSTRUCTION ASSEMBLIES

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

no.	date	revision	C	9/9/24	ISSED FOR PRE-BID ... NOT FOR CONSTRUCTION
A	05/21/24	PROGRESS REVIEWS AND COMMENTS FOR APPROVAL	0	9/13/24	FC-CODE ENFORCER REVIEW AND APPROVAL FOR PERMIT
B	07/3/24	PROGRESS REVIEWS AND COMMENTS FINAL APPROVAL			

GENERAL KEYNOTES

REFERENCES FOR TYPICAL WALL SECTIONS AND ALL A50x SERIES DRAWING SHEETS

01 PROPRIETARY ARCHITECTURAL METAL STANDING (REFERENCE "CEE-LOCK" RIB) SEAMED ROOF; PRE-FINISHED (RIB NOM. 2" HT) PANELS MIN. 22 GAUGE STEEL; (MAX PANEL: 16" WIDE); GALVALUME METALLIC PROTECTION (MIN 25 YEARS (+) AZ60 WARRANTY) W/ PRE-FINISHED HIGH PERFORMANCE COLOR COATING (MIN 40 YEARS COATING SYSTEM WARRANTY WITHIN COASTAL SALT AIR ENVIRONMENT); SECURE W/ CONCEALED CONTINUOUS (HIGH WIND/UPLIFT) RESISTANCE GALVANIZED CEE RIB HOLD DOWN (ANGLE) SPINE W/ APPROPRIATE SIZE AND (EDGE/INFILL) SPACED (METAL TO WOOD) FASTENERS (ASTM E-1592 WIND UPLIFT/ASTM E-1646 WATER PENETRATION TESTED); ROOF STANDING SEAMS SHALL BE SEALED SEAM W/VINYL WEATHERSEAL (ALLOW FOR EXPANSION AND CONTRACTIONS AT HOLD-DOWN CLIPPED RIB CONNECTIONS).

(DESIGNER'S RECOMMENDATIONS FOR CEE RIB HOLD-DOWN (POINTS OF ATTACHMENTS) INSTALLATION: FASTENERS (ASTM STAINLESS STEEL 316) SHALL BE ABOVE INDUSTRY STANDARDS: LONGER LENGTHS, LARGER SHAFT DIAMETER AND EACH FASTENER SHALL BE CONSTRUCTION ADHESIVE GLUED IN-PLACE TO RESIST POSSIBILITY OF BACK-OUT DUE TO (WOOD AND METAL) EXPANSION/CONTRACTION AND HIGH COASTAL WIND VIBRATIONS DUE TO SEASONAL COASTAL WEATHER EFFECTING VARIOUS CONSTRUCTION COMPONENTS; HOLD-DOWN SYSTEM INSTALLATION SHALL BE CONSIDERED AS A WHOLE, PART OF THE PROPRIETARY ARCHITECTURAL METAL STANDING (RIB) SEAMED ROOF SUPPLIER/VENDOR COMPLETE SYSTEM ASSEMBLY.

REFERENCE PROPRIETARY METAL STANDING (RIB) SEAMED ROOF MANUFACTURER GUIDELINES FOR RECOMMENDATIONS FOR COMPLETE ASSEMBLY DETAILS FOR FULL SYSTEM INSTALLATION (INCLUDING FLASHING AND TRIM CLOSURES) W/ (ASTM D4214 PREMIUM 30 YR.) MATERIAL WARRANTIES (WITHIN COASTAL SALT AIR LATENT ENVIRONMENT): INSTALLATION, MATERIAL FINISH AND HIGH WIND UP-LIFT RESISTANCE FOR DENOTED (REFERENCE: ASCE-7-10 "ATC HAZARDS BY LOCATION: 148 MPH "RISK CATEGORY II; WIND BORNE AREA) WIND SPEED; PROVIDE PROPRIETARY METAL ROOF MANUFACTURER'S AND CONTRACTOR'S "QUALITY OF ASSURANCE" FOR SYSTEM DESIGNS; ROOF PANEL INSTALLATION AND RECOMMENDED PANEL CLIP/HOLD-DOWN FASTENERS INSTALLATION PATTERN SPACING FOR (BUT NOT LIMITED TO) AREAS AS FOLLOWS: PERIMETER LOW ROOF EAVE EDGES, ROOF CORNERS TRIBUTARY AREAS; GABLE ROOF ENDS/RAKES AND OVERALL "IN-FILL" ROOF AREAS: (UL LISTED "CLASS A" ROOF MATERIAL) GENERAL CONTRACTOR SHALL PROVIDE STANDARD FULL STRENGTH KYNAR 500 COLOR FINISH SELECTION TO BE REVIEWED AND APPROVED BY TOWN OF CAROLINA BEACH (PROPERTY OWNER). (COLOR: REFERENCE COLOR MATCH TBD)

(COASTAL ENVIRONMENT/HIGH WINDS HURRICANE PRONE AREA) GENERAL ROOFING CONTRACTOR AND PROPRIETARY STANDING SEAM ROOF MANUFACTURE (SUPPLIER/VENDOR) SHALL PROVIDE (INCLUDE) A MAXIMUM EXTENDED MATERIAL WARRANTIES (FINISHED COATING AND STRUCTURAL INSTALLATION ENHANCEMENT) TO THE OVERALL STANDING SEAM ROOFING SYSTEM ASSEMBLY

WHERE, AS NECESSARY, SSR PANELS REQUIRES FIELD CUTTING, PRIME AND PAINT "TOUCH-UP" ALL EXPOSED PANEL EDGE SURFACES (COLOR/SHEEN SHALL MATCH FINISHED)

02 METAL ROOFING SPECIALITY MEMBRANE UNDERLAYMENT, "ROOF SECONDARY WATER-BARRIER;" (HIGH PERFORMANCE; HIGH-HEAT TEMPERATURE RESISTANCE) (MIN) NOMINAL 40 Mils. BARRIER THICKNESS); SINGLE PLY POLYOLEFIN SURFACE FILM SLIP RESISTANCE FINISHED; SELF-ADHERED, SBS RUBBERIZED ASPHALT, PLIABLE SHEETING; LAP EDGES MIN. 6"; (SIMILAR MFG.: BLUESKIN PE200HT) REFERENCE ARCH SHEET A102 FOR ADDITIONAL GENERAL NOTES

PROVIDE ADDITIONAL (UNDER ROOF MEMBRANE BARRIER) SINGLE RUBBERIZE-ASPHALT SELF-ADHERED, FLEXIBLE MEMBRANE (MIN. (+) 40Mils) STRIPPING AS COUNTER FLASHING AT ALL HEADWALL INTERSECTIONS AND CHANGE OF SLOPE INTERSECTIONS AT HIPS & VALLEYS; EXTEND MIN. 6" VERT/HORZ OVERLAPS (SIMILAR MFG.: WR GRACE "ICE & WATER SHIELD HT" (OR) BLUESKIN: PE 200 HT")

03 NOMINAL 5/8" (UNLESS STRUCTURAL DRAWINGS SPECIFIED OTHERWISE) EXTERIOR PLYWOOD PANEL ROOF SHEATHING (APA STRUCTURAL GRADE) STAGGER PLYWOOD VERT/HORZ JNTS. OVER WALL STUDS W/ 2x CROSS BLOCKING @ HORZ. JOINTS. PANEL FASTENER TYPES AND SPACING SHALL BE GOVERN BY 2018 NCBC SECTION 1609 (TABLE 1604.5) FOR COASTAL HAZARD "HURRICANE-PRONE REGIONS" (AREAS SUBJECTED TO HIGH WIND SPEEDS "ASCE 7-10 PER CHAPTERS 26~30; RISK CATEGORY (II): MIN. 148 MPH) (REFERENCE DATA: ATC HAZARDS BY LOCATION) (REFERENCE: STRUCTURAL DRAWINGS AND ARCHITECTURAL SHEET A102 FOR ADDITIONAL DETAILS) (U1: R-VALUE = 0.63)

(OPTIONAL: LINE ITEM: BID ALTERNATE) NOM. 5/8" EXTERIOR PLYWOOD PANEL WALL SHEATHING (APA STRUCTURAL GRADE) STAGGER PLYWOOD VERT/HORZ JNTS. OVER ROOF TRUSSES W/ BLK'G @ HORZ. JNT. PROPRIETARY WALL PANEL SHEATHING W/ BUILT-IN ENERGY EFFICIENT MOISTURE/VAPOR BARRIER SURFACE FINISH; ALL PANEL JOINTS SHALL BE PRESSURED SEAM-SEALED TAPED (ENGINEERED PRODUCT SIM. HUBER ENG'R WOODS: -"ZIP SYSTEM") REFERENCE STRUCTURAL DRAWINGS PANEL "NON-CORROSIVE" FASTENER TYPES AND SPACING FOR PANEL EDGES AND IN-FILL SECUREMENT. (U1: R-VALUE = 0.63)

04 LOW EAVE FINISH SOFFIT: "TONGUE & GROOVE" BEVEL-EDGE PLANKS; SMOOTH FACE SURFACE FINISH PROFILE; (NOM. 1X6) INTERLOCKING PLASTIC (PVC SOLID CELLULAR) LUMBER; SIMILAR MFR INTERTEK BUILDING PRODUCTS: "VERSATEX-TRIMBOARD (WP4) TGTBSM010618"); (NOM. 18 FT BOARD LENGTH NOMINAL 3/4" THICKNESS) PROVIDE STAINLESS STL (316SS) HIDDEN CLIP FASTENERS; REFERENCE VERSATEX MFR TECHNICAL BULLETIN C-2 (FASTENING CELLULAR TRIM) RECOMMENDATIONS; PRIME AND PAINT; REFERENCE ARCHITECTURAL SHEET A200 "EXTERIOR FINISH LEGEND" FOR COLOR

05 EXPOSED WOODEN PLANK CEILING; NOMINAL EXTERIOR 1x8 "VEE GROOVE" JOINT "TONGUE & GROOVE" PLANKS; SMOOTH FACE SURFACE FINISH EXPOSURE; (KDAT) SOUTHERN YELLOW PINE PREMIUM-GRADE "VISUAL" SELECT) (NOM. 16 FT LENGTH BOARDS NOMINAL 3/4" THICKNESS) W/ CONCEALED STAINLESS STEEL (ASTM 316/304) SLIT-RING FASTENERS AT TONGUE FLANGES; EXPOSURE (MILDEW AND HUMIDITY GRADE RESISTANCE-CLEAR "MCA PRESERVATIVE") PENETRATING/PRESERVATIVE OIL-BASE STAIN; SATIN SHEEN CLEAR/AMBER NATURAL FINISH; (REFERENCE FINISH SCHEDULE SHEET A800).

06 OPEN ROOF TRUSSES/ABOVE CEILING FIBERGLASS THERMAL BATT "UN-FACED" INSULATION (NOM. 14" R-38), (MFG. OWNING CORNING; "PROPINK FASTBATT") FULL ROOF TRUSS CROSS-SECTIONS WIDTH INSTALLATION: NO VOIDS (NO CRUSHING); PREVENT HORIZONTAL SAGGING W/ NYLON WEBBING STRIPS AT 16" O/C

07 (TYPICAL EXTERIOR/INTERIOR TRIM FINISH) - CONTINUOUS (NOMIMAL) 1" THICKNESS X (REF.) 7.25" WIDTH; SOLID EXTRUDED CELLULAR PVC HORIZONTAL TRIM BOARD; SMOOTH FACE SURFACE FINISH; SECURE W/ APPROPRIATE (STAINLESS STL/ASTM 316) SCREW TYPE/LENGTH/SPACING FASTENERS; FASTENERS SHALL BE SEAL/PLUG SURFACE FINISH FLUSH; (SHIP-LAPPED CUT BUTT/END SXN CORNER JNTS); PROPRIETARY SUPPLIER/VENDOR: "VERSATEX TRIMBOARD" 5/4 (1") SMOOTH FACE BOARD (REFERENCE COLOR: SELECTION FINISH SCHEDULE SHEET A800.)

08 (TYPICAL BUILDING SIDING FINISH): EXTERIOR BOARD & BATTEN VERTICAL SIDING) NOM. 2-1/2"W. x 3/4" THK CEMENTITIOUS FIBER/REINF (WOODGRAIN FACE) BATTENS (EQ. SPACED MAX. 16" O.C.) OVER (NOM/REF) 5/16" THICK CEMENTITIOUS (CEDAR WOODGRAIN APPEARANCE) VERTICAL PANEL SIDING. SECURE BATTENS AND PANELS W/ APPROPRIATE (STAINLESS STL/ASTM 316) SCREW TYPE/(MIN. 1.25") LENGTH/SPACING FASTENERS; (REFERENCE: ICC/ESR-1844 REPORT) FASTENERS SHALL BE SEAL/PLUG SURFACE FINISH FLUSH; (PRE COLOR-PRIME FINISHED) PROPRIETARY SUPPLIER/VENDOR: "JAMES HARDIE" HZ10 HARDIE-BATTENS AND HZ10 HARDIE-PANEL

TYPICAL "ALL CUT (PANELS AND BOARDS) ENDS" SHALL BE SEALED WITH APPROPRIATE BLACK COLORED PRIMER PAINT

09 (TYPICAL EXTERIOR HORIZONTAL CLADDING FINISHING) - CEMENTITIOUS FIBRE/REINF CEDAR (SIMULATED NATURAL FINISHED/WOOD GRAIN); 4" EXPOSURE (CONCEAL (BLIND-FULL HEADED FASTENERS); LAPPED SIDING PLANKS, PROPRIETARY SUPPLIER/VENDOR: "JAME'S HARDIE" (NOM) 5/16" THK PLANKS (PRE-PRIME COLOR: REF: A200 COLOR SCHEDULE.); REFERENCE TECH GUIDES FOR HIGH WIND (STAINLESS STL/316) FASTENER SCREW TYPE/LENGTH (MIN. 1.25" EMBEDMENT)/SPACING AND PATTERN PER ICC/ESR-2290 REPORT) FACE FASTENERS MUST BE INSTALLED IN A MANNER TO AVOID OVERDRIVING, YET SNUG ENOUGH TO REMOVE GAPS BETWEEN THE CONNECTED PARTS. ADJUST DRIVING TOOLS AND INSTALLATION PRACTICE ACCORDINGLY

TYPICAL "ALL CUT (PANELS AND BOARDS) ENDS" SHALL BE SEALED WITH APPROPRIATE BLACK COLORED PRIMER PAINT

10 "AIR/MOISTURE BARRIER" (AWB) OVER "BUILDING ENVELOPE EXTERIOR STRUCTURAL SUBSTRATE" (CONCRETE MASONRY UNITS); FLUID-APPLIED, WATER-BASED, VAPOR-PERMEABLE FLEXIBLE MEMBRANE; SPRAY (OR) ROLLED APPLIED AS A CONTINUOUS MONOLITHIC COATING (FULL MASONRY WALL/HEIGHT); REFERENCE MANUFACTURER'S PRODUCT RECOMMENDATION FOR QUALITY ASSURANCE OF WARRANTY INSTALLATION); 60mil WET THICKNESS; 40mil DRY THICKNESS (SIMILAR MFRS. "PROSOCO," OR "CARLISLE" THERMAL & MOISTURE PROTECTION)

11 (TYP) NOM. 8x8x16 CONCRETE MASONRY UNIT (CMU) (LOAD BEARING) SINGLE WYTHE EXTERIOR WALL; CONCRETE GROUT FILLED CELLS SOLID AT EACH VERTICAL STEEL BAR REINFORCEMENT; PROVIDE ADDITIONAL HORZ, MASONRY JOINT REINFORCING (TRUSS TYPE) AT 1'-4" VERT O/C; HOT DIPPED GALV; (ASTM A153 G90; STANDARD 9 GAUGE SIDE/CROSS RODS); (REFERENCE STRUCTURAL DWGs FOR DETAILED VERTICAL FOUNDATION DOWEL AND VERTICAL FULL HEIGHT WALL REINFORCING INFOR'N)

12 FLASHING TAPE; APPLIED DIRECTLY OVER 2x (STUD/JOIST -FURRING) VERTICAL FRAMING; SHELF-ADHERING, UV, WEATHER AND TEMPERATURE RESISTANT; BUTYL RUBBER (HIGH PERFORMANCE ADHESION) BLACK FACER (MYLAR) FILM ROLL FLASHING; NON-STRETCH; (NOMINAL 3" WIDE; (MIN) 20~15 Mils THICKNESS) PRESSURE ROLL INSTALLATION.

13 DOUBLE LAYER 3/4"(D)x3"(H)x48"(L) EACH SECTIONAL LAYER; DRAINAGE CAVITY VENTILATION STRIPS; BLACK PLASTIC CORRUGATE CRUSH RESISTANT EXTRUDED POLYPROPYLENE FLUTED CORE SECTIONAL; PROVIDE WITH INSECT SCREEN; STAGGER OVER LAPPING SECTIONALS (MFR. "COR-A-VENT, INC." MOD.: COR-SV-5)

14 (TYP) AUTOMATIC (BASE/WALL) SMART/FLOOD VENT W/ INTERNAL FLOAT DAMPER ACTIVATED, (NON AIR VENTILATED); STAINLESS STL MARINE GRADE 316; NOMINAL SIZE: 8"(H) x 16"(W); 200 SOFT RATED COVERAGE/VENT; FEMA COMPLIANT ICC-ES CERTIFIED ENGINEERED; STAINLESS STEEL THRU WALL SLEEVE/FRAME W/ INTERIOR SCREEN; INSULATED OPERABLE PROTECTION DAMPER; (COLOR: GRAY) REFERENCE ICC-ES EVALUATION REPORT: ESR-2074 (MANUFACTURER SMART VENT PRODUCT, INC. - "SmartVENT" MODEL 1540-520 W/ SEALING TRIM KIT No.1540-526) COLOR: GRAY; REFERENCE PROPRIETARY VENDOR SHOP DRAWINGS FOR ADDITIONAL DETAIL INFORMATION

15 PARTITION WALL CAVITY FIBERGLASS THERMAL BATT "UN-FACED" INSULATION (NOM. 6" R-19), (MFG. OWNING CORNING; "PROPINK FASTBATT") FULL WALL HEIGHT/CAVITY WIDTH INSTALLATION: NO SAG, NO VOIDS (NO CRUSHING)

16 TYPICAL WEATHER BARRIER-RAINSCREEN); VERTICAL WALL SURFACE CONTINUOUS WEATHER "OPEN JOINT WATER" RAINSCREEN DRAINAGE SCREEN PLANE MEMBRANE; UV RESISTANCE FABRIC SURFACE MEMBRANE (SIMILAR MFR: BENJAMIN-OBDYKE: "INVISI-WRAP" (FULL BREAK-AWAY 2x WALL HEIGHT AND WIDTH. UNDER TIMBER-TEC SIDING) REFERENCE PROPRIETARY MFR RECOMMENDATIONS FOR PROPER INSTALLATION OF FASTENING;

17 (TYP) (REF/NOM) 1x6 HORIZONTAL PLANK EXTERIOR PARTITION SCREEN/ VERTICAL WALL CLADDING) - ACCENT PANEL WALL (SIMULATED NATURAL RECLAIMED FINISHED/WOOD GRAIN LOOK) HIGH-PERFORMANCE (FADE/STAIN/MOISTURE RESISTANT) PVC-COMPOSITE (GROOVED LINEAR EDGES) PLANKING INSTALLED VERTICALLY, (PROPRIETARY PLANK MANUFACTURE: AZEK/TIMBER_TEC-PRO COMPOSITE: "RESERVE COLLECTION" COLOR: DARK ROAST; PROVIDE PROPRIETARY MANUFACTURER'S STAINLESS STEEL (ASTM 316) "CONCEALOC" HIDDEN CLIP FASTENER W/ (MIN) No.10x2,5 STAINLES STL SCREW SYSTEM ASSEMBLY; (REFERENCE "TIMBER-TEC/AZEK" ARCHITECTURAL SPECIFICATIONS FOR DETAIL RECOMMENDATION FOR "HIDDEN FASTENERS INSTALLATION" AND ADDITIONAL PREPERATION OF ADVANCE PVC PLANK BOARD))

(TYP) (REF/NOM) 1x6 HORIZONTAL/VERTICAL TRIM BOARDS - ACCENT PANEL WALL (SIMULATED NATURAL RECLAIMED FINISHED/WOOD GRAIN LOOK) HIGH-PERFORMANCE COMPOSITE (FADE/STAIN/MOISTURE RESISTANT) PVC (SQUARED EDGES) (PROPRIETARY PLANK MANUFACTURE: AZEK/TIMBER_TEC-ADVANCE PVC: "LANDMARK COLLECTION" COLOR: AMERICAN WALNUT; PROVIDE PROPRIETARY MANUFACTURER'S STAINLESS STEEL (ASTM 316) PRE-DRILL COUNTER-SUNK HIDDEN CORTEX SCREW (MIN) No.10x2.5 FASTENERS WITH PROPRIETARY PLUG SEAL (MATCH TRIM BOARDS FOR SEAMLESS APPEARANCE) FOR EACH FASTENER; (REFERENCE "TIMBER-TEC/AZEK" CORTEX CAPPED SCREWS FOR ARCHITECTURAL SPECIFICATIONS AND RECOMMENDATIONS FOR "HIDDEN FASTENERS INSTALLATION")

N1 (PRE-CONSTRUCTION) - REMOVE REQUIRED LAYERS OF EXISTING TOPSOIL (ORGANIC SOIL) AND OTHER UNSUITABLE MATERIALS UNDER ALL FLOOR SLABS, RIBBON SLABS, FOOTINGS, BEYOND TO THE LIMITS OF "NO CONSTRUCTION/RESTRICTED CAMA AREAS" FROM BUILDING FOOTPRINT EXTERIOR WALLS AT (MIN.) DEPTHS OR AS DENOTED IN THIRD PARTY (IF PROVIDED) GEO-TECHNICAL SOIL ENGINEERING REPORT. BEFORE CONSTRUCTION BEGINS: PREP SOIL BELOW SLAB: (SUB-SURFACE) VERIFICATION FOR EXISTING CONDITIONS AND UN-RECORDED (NON-DENOTED) UTILITIES

(IF PROVIDED BY THE BUILDING REAL PROPERTY OWNER -"TOWN OF CAROLINA BEACH") REFERENCE GEO-TECHNICAL SOIL ENGINEERING REPORT OF SUBSURFACE INVESTIGATION FOR PROPER SOIL BEARING CONDITIONS FOR TYPE OF FOUNDATION RECOMMENDATIONS AND TO STRUCTURALLY SITE PREP AND CONDITION TO IMPROVE EXISTING GRADES AT DEPTHS (DENSIFY THE SOIL) TO ACHIEVE PROPER SOIL BEARING CAPACITIES AND (IF REQUIRED) SEISMIC RESISTANCE. PREPARED SOILS SHALL BE CLEANED OF ALL VEGETATION AND ORGANIC MATERIAL. TERMITE TREAT BEFORE CONSTRUCTING BUILDING PAD, PERIMETER RIBBON SLABS AND FOUNDATIONS.

N2 GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO REFERENCE STRUCTURAL DRAWINGS FOR REQUIRED SOIL BEARING DESIGN PRESSURES CAPACITIES NECESSARY FOR FOUNDATION DESIGNS; GENERAL CONTRACTOR SHALL TAKE RESPONSIBLE FOR VERIFYING, PREPARATION AND MAKE IMPROVEMENTS TO EXISTING SOIL SURFACE CONDITIONS AND SUB-SURFACE SOIL BEARING CAPACITIES TO PROPERLY RECEIVE THE BUILDING FOUNDATION AND PAD (IF) THE BUILDING REAL PROPERTY OWNER -"TOWN OF CAROLINA BEACH," DOES NOT PROVIDED PROFESSIONAL SOIL ENGINEER'S SUBSURFACE GEO-TECHNICAL SOIL REPORT. (OPTIONAL: REMOVE ORGANIC SOILS TO BE STORED AND REUSED FOR LANDSCAPING)

N3 BACK-FILL SUB-GRADE FOR SLAB BEARING; PROVIDE CLEAN SELECTED GRANULAR (DRAIN-ABLE) SANDY/CLAY SOIL (IF REQUIRED BY GEO-TECHNICAL ENGINEER'S REPORT: #57 AGGREGATE) TO BE COMPACTED IN MAXIMUM 6 INCH LAYERS TO ACHIEVE THE STANDARD PROCTOR MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT IN ALL LAYERS UP TO THE UPPER ONE FOOT. PROVIDE UNIFORMED LEVEL FINISH FLAT SUB-GRADE TO ELIMINATE SLAB UN-EVEN THICKNESS. GENERAL CONTRACTOR SHALL REVIEW BUILDING REAL PROPERTY OWNER-"TOWN OF CAROLINA BEACH" (IF PROVIDED) "GEO-TECHNICAL SOIL ENGINEER'S" REPORT OF SUBSURFACE INVESTIGATION FOR PROPER SOIL BEAR'G CONDITIONS.

N4 BUILDING FLOOR SLAB; REINFORCED CONCRETE STRUCTURAL "SLAB ON GRADE" (REFERENCE STRUCTURAL DRAWINGS FOR THICKNESS) OVER VAPOR BARRIER ON CLEAN COMPACTED GRANULAR (DRAIN-ABLE) SUBFILL; STEEL TROWEL SURFACE FINISH; REFERENCE MOST RESTRICTED GENERAL NOTES AND COORDINATE W/ ARCHITECTURAL WALL SECTIONS; FOR ADDITIONAL INFORMATION NOTES REFERENCE STRUCTURAL ENGINEER'S DRAWINGS; STRUCTURAL ENGINEER'S DRAWINGS TAKES PRECEDENCE OVER ARCHITECTURAL!

THIS SHEET SHOWS BASIC DRAFTING STANDARDS

TOWN OF CAROLINA BEACH NORTH CAROLINA

Digitally signed by Michael L. Saieed, Jr. RA AIA (aka Mitchell) DN: cn=Michael L. Saieed, Jr. RA AIA (aka Mitchell), o=Design Elements, ou=Architect of Record - NC Lic 8773, email=msaieed@designele.com, c=US Date: 2024.09.16 15:55:59 -04'00'

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09/13/2024

MICHAEL LEE SAIEED JR. 04 NORTH CAROLINA PROFESSIONAL ARCHITECT

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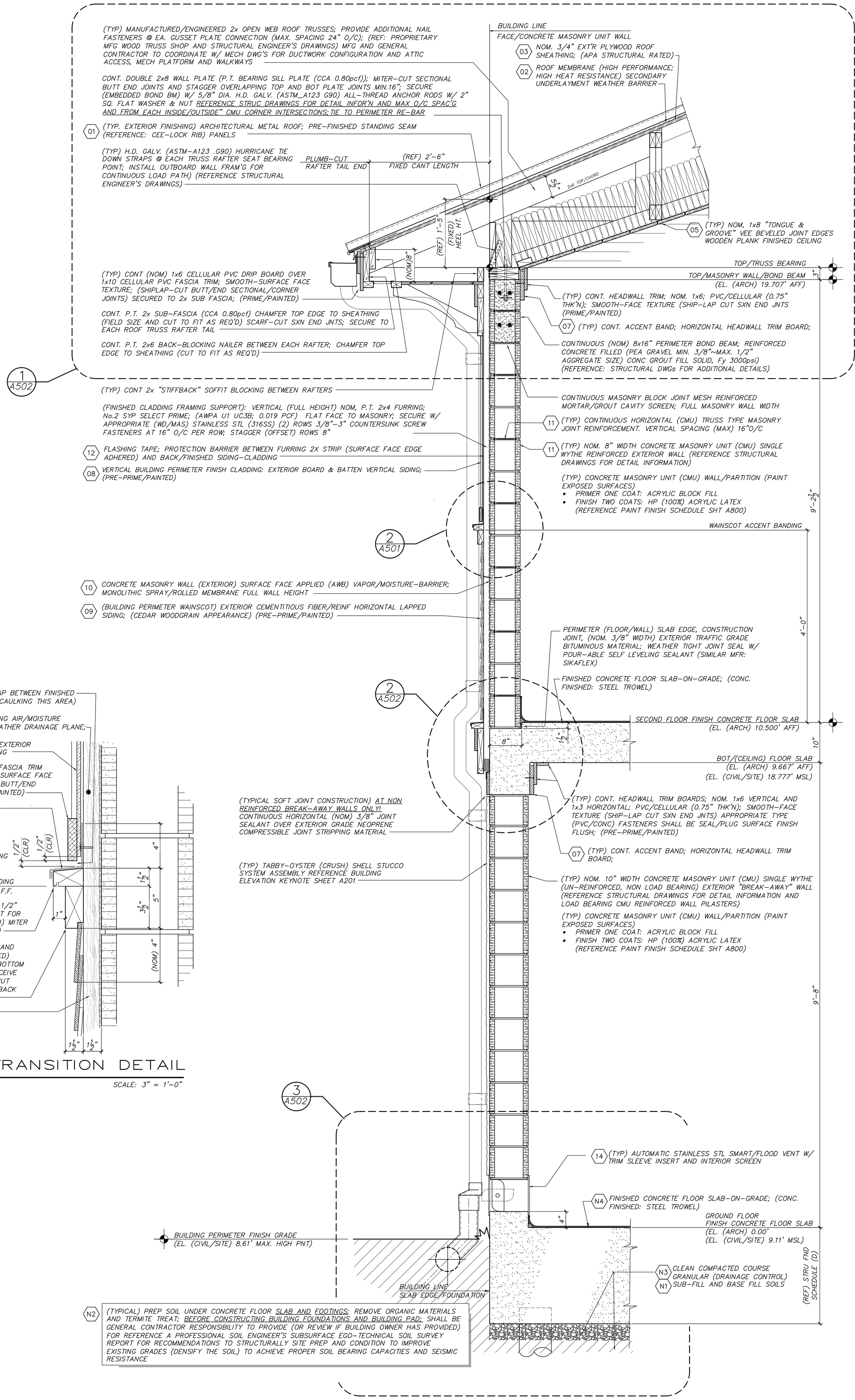
Proposed Public Restroom Facility for
Town of Carolina Beach
CAROLINA BEACH AVE, SOUTH - PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428

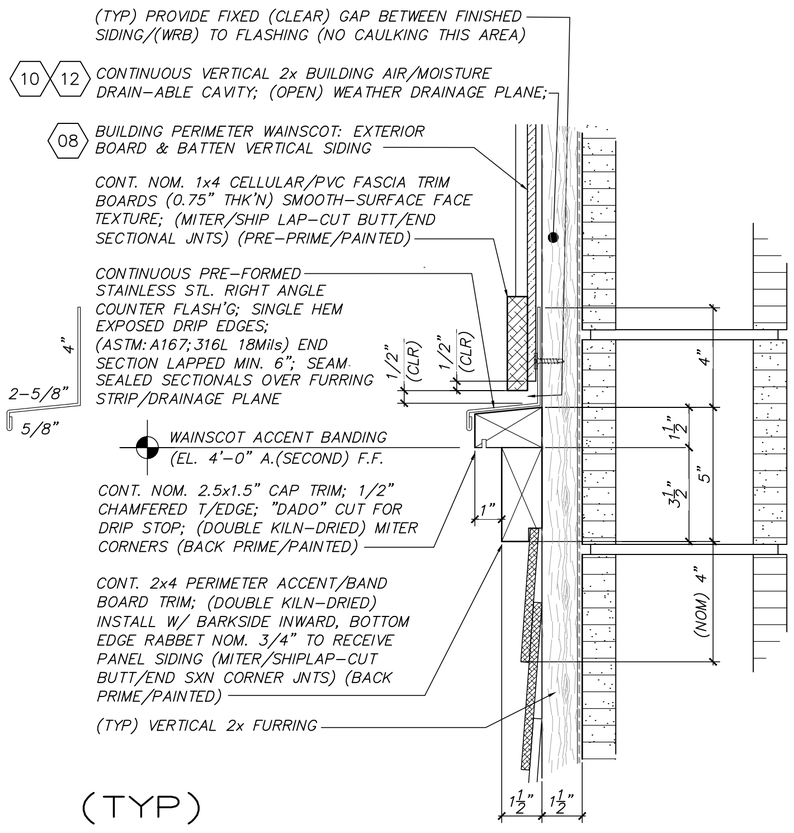
TYPICAL WALL TYPES AND KEYNOTES

job status **Contract Documents - Issue for Construction**

date	03 MAY 24
job no.	CB/RESTRM/24
drawn by	MLS/SGH
checked by	MSAIEED
drawing no.	A500
revision no.	0

no.	date	revision	C	9/9/24	ISSED FOR PRE-BID _ NOT FOR CONSTRUCTION
A	05/21/24	PROGRESS REVIEWS AND COMMENTS FOR APPROVAL	0	9/13/24	IFC-CODE ENFORCER REVIEW AND APPROVAL FOR PERMIT
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2 A501 (TYP) WAINSCOT TRANSITION DETAIL

SCALE: 3" = 1'-0"

1 A501 (TYPICAL) EXTERIOR MASONRY WALL SECTION

REFERENCE: SHEET A500 FOR GENERAL KEYNOTES NOT DENOTED

SCALE: 1" = 1'-0"

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THIS SHEET SHOWS BASIC DRAFTING STANDARDS

revision no. 0
drawing no. A501
checked by MSAIEED
drawn by MLS/SGH
job no. CB/RESTRM/24
date 03 MAY 24

Proposed Public Restroom Facility for

Town of Carolina Beach

CAROLINA BEACH AVE, SOUTH – PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428

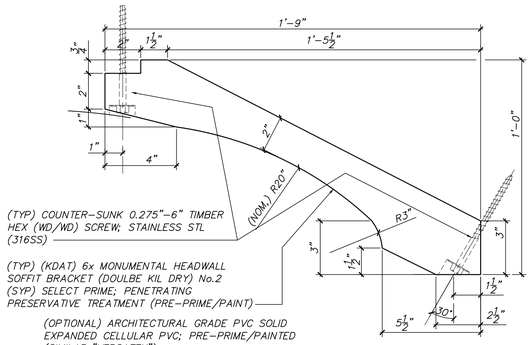
TYPICAL WALL SECTIONS

job status **Contract Documents - Issue for Construction**

MITCHELL LEE SAIEED JR. LICENSED ARCHITECT 18773 NORTH CAROLINA WILMINGTON, NC
09/13/2024

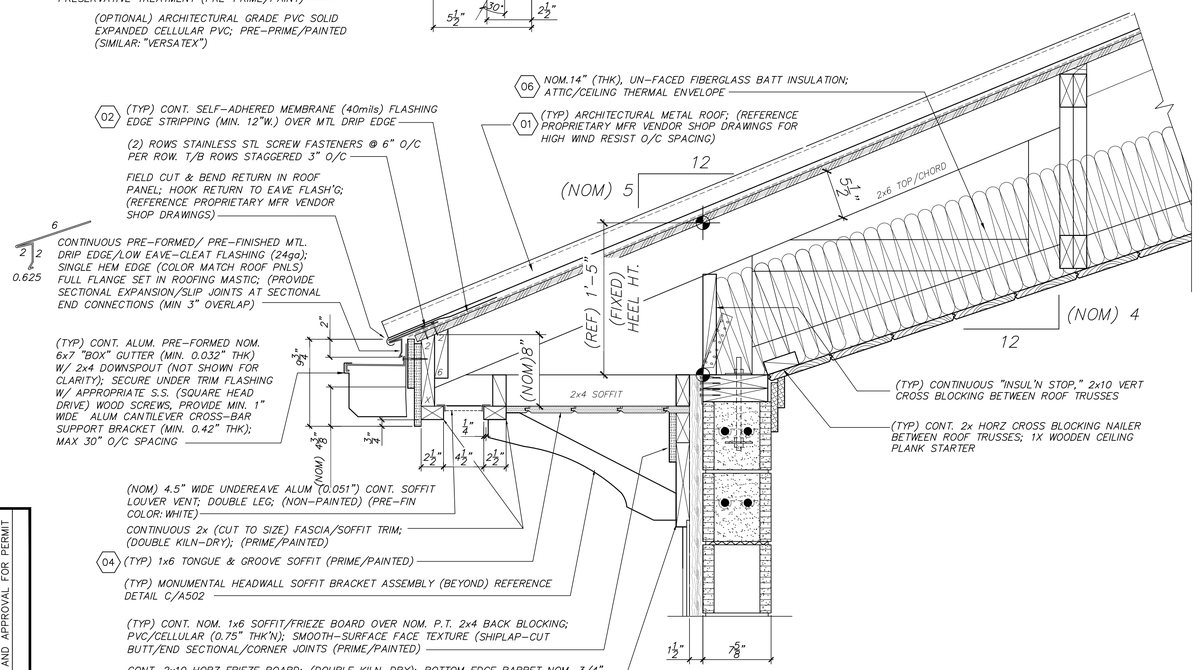
Design Elements
M. L. Saieed (Michael), RA, AIA, LEED-AP
Architectural Corporation (NC 51371)
1213 Culbreth Drive, Suite 142
Wilmington, North Carolina 28405
910. 509. 3131

TOWN OF CAROLINA BEACH NORTH CAROLINA



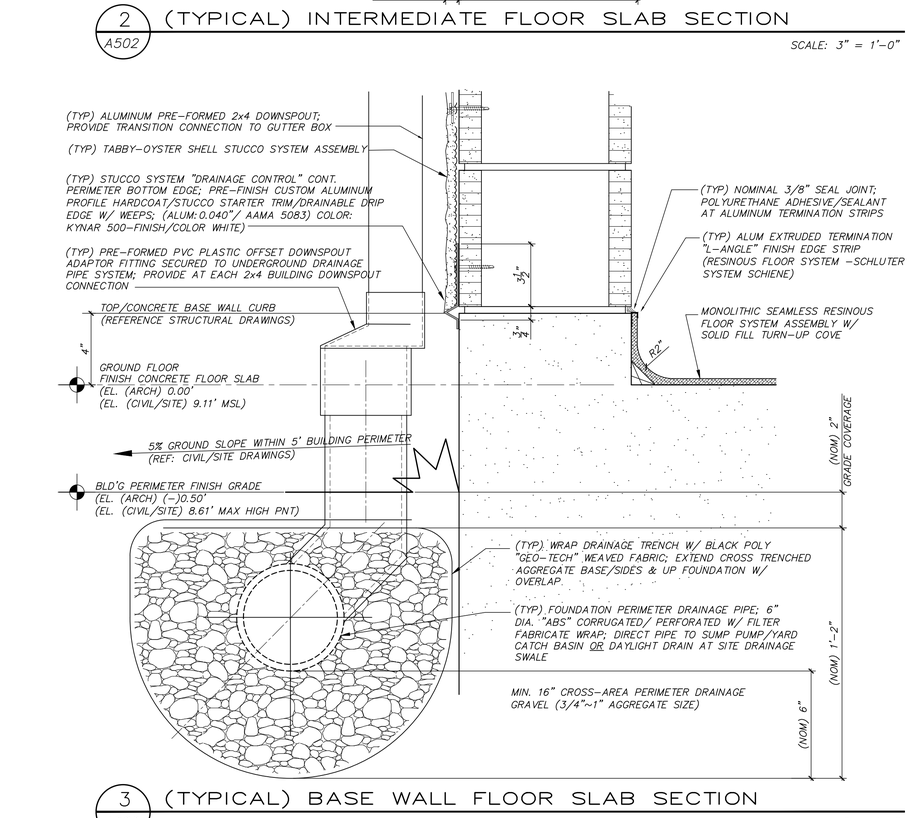
A A502 (TYPICAL) BRACKET DETAIL

SCALE: 3" = 1'-0"



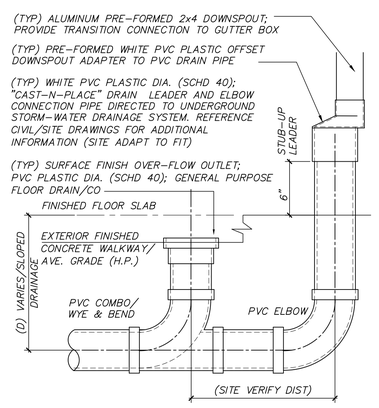
1 A502 (TYPICAL) LOW-EAVE ROOF SECTION

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



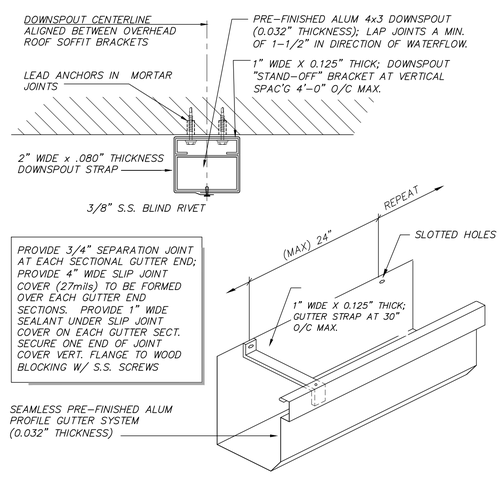
2 A502 (TYPICAL) INTERMEDIATE FLOOR SLAB SECTION

SCALE: 3" = 1'-0"



A A502 (TYP) DOWNSPOUT TO LEADER TRANSITION DETAIL

SCALE: (NOT TO SCALE)



B A502 (TYP) GUTTER AND DOWNSPOUT ISOMETRIC

SCALE: (NOT TO SCALE)

3 A502 (TYPICAL) BASE WALL FLOOR SLAB SECTION

SCALE: 3" = 1'-0"

no.	date	revision	C	9/9/24	ISSED FOR PRE-BID – NOT FOR CONSTRUCTION
A	05/21/24	PROGRESS REVIEWS AND COMMENTS FOR APPROVAL	0	9/13/24	IFC-CODE ENFORCER REVIEW AND APPROVAL FOR PERMIT
B	07/3/24	PROGRESS REVIEWS AND COMMENTS FINAL APPROVAL			

TOWN OF CAROLINA BEACH NORTH CAROLINA

THIS SHEET SHOWS BASIC DRAFTING STANDARDS

Design Elements
M. L. Saeed (Michael), RA, AIA, LEED-AP
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Wilmington, North Carolina 28405
910.509.3181

13/2024

MICHAEL LEE SAEED JR. NC ARCHITECT 13772 PROFESSIONAL SEAL

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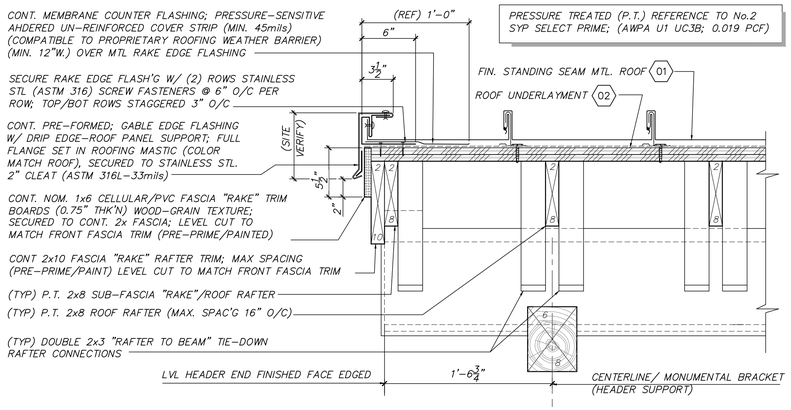
Proposed Public Restroom Facility for Town of Carolina Beach

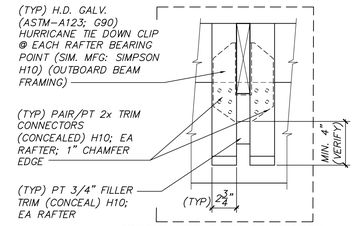
CAROLINA BEACH AVE. SOUTH - PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428

TYPICAL WALL SECTION DETAILS

job status **Contract Documents - Issue for Construction**

date	03 MA7 24
job no.	CB/RESTRM/24
drawn by	MLS/SGH
checked by	MSAIEED
drawing no.	A502
revision no.	0

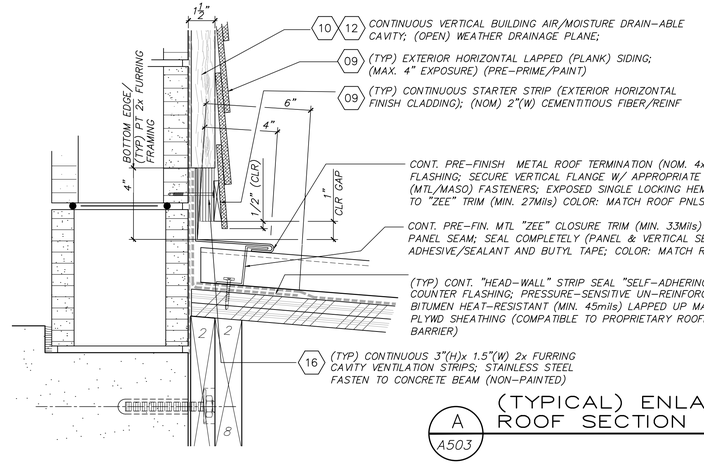




OPTIONAL TIE-DOWN CONNECTION DETAIL FINISH

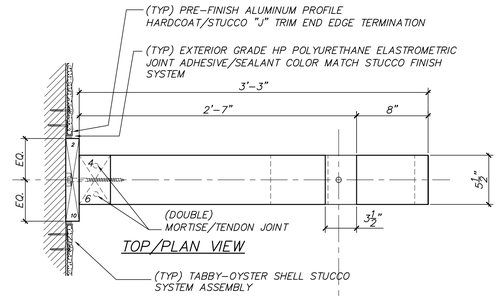
3 / A503 ENTRY SHED ROOF RAKE SECTION

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

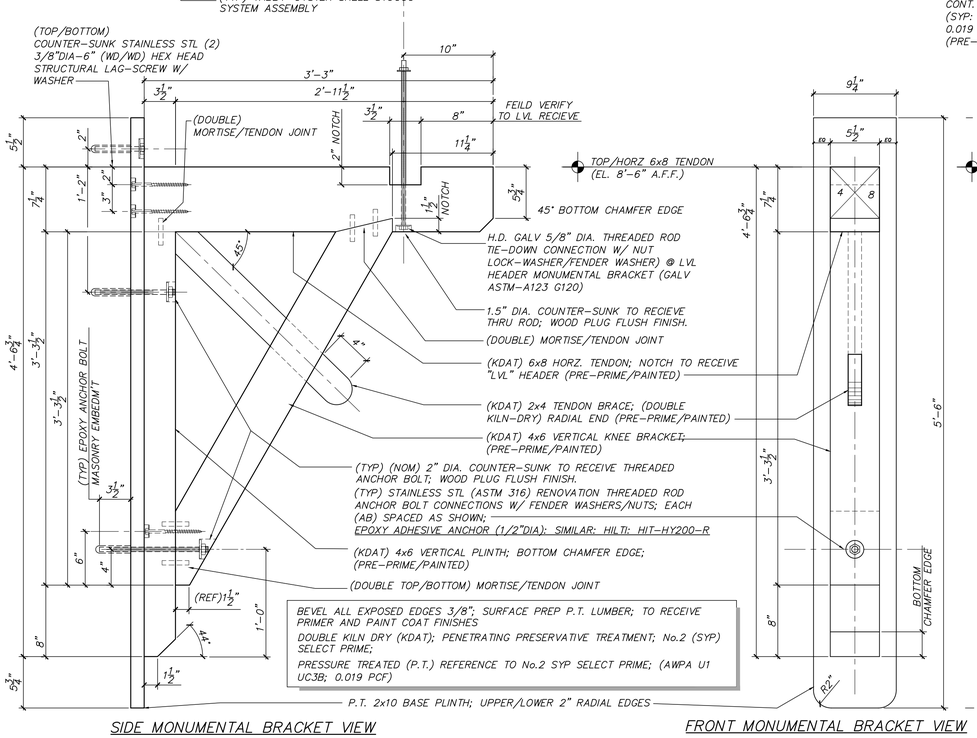


A / A503 (TYPICAL) ENLARGED HIGH-EAVE ROOF SECTION

SCALE: 3" = 1'-0"



TOP/PLAN VIEW

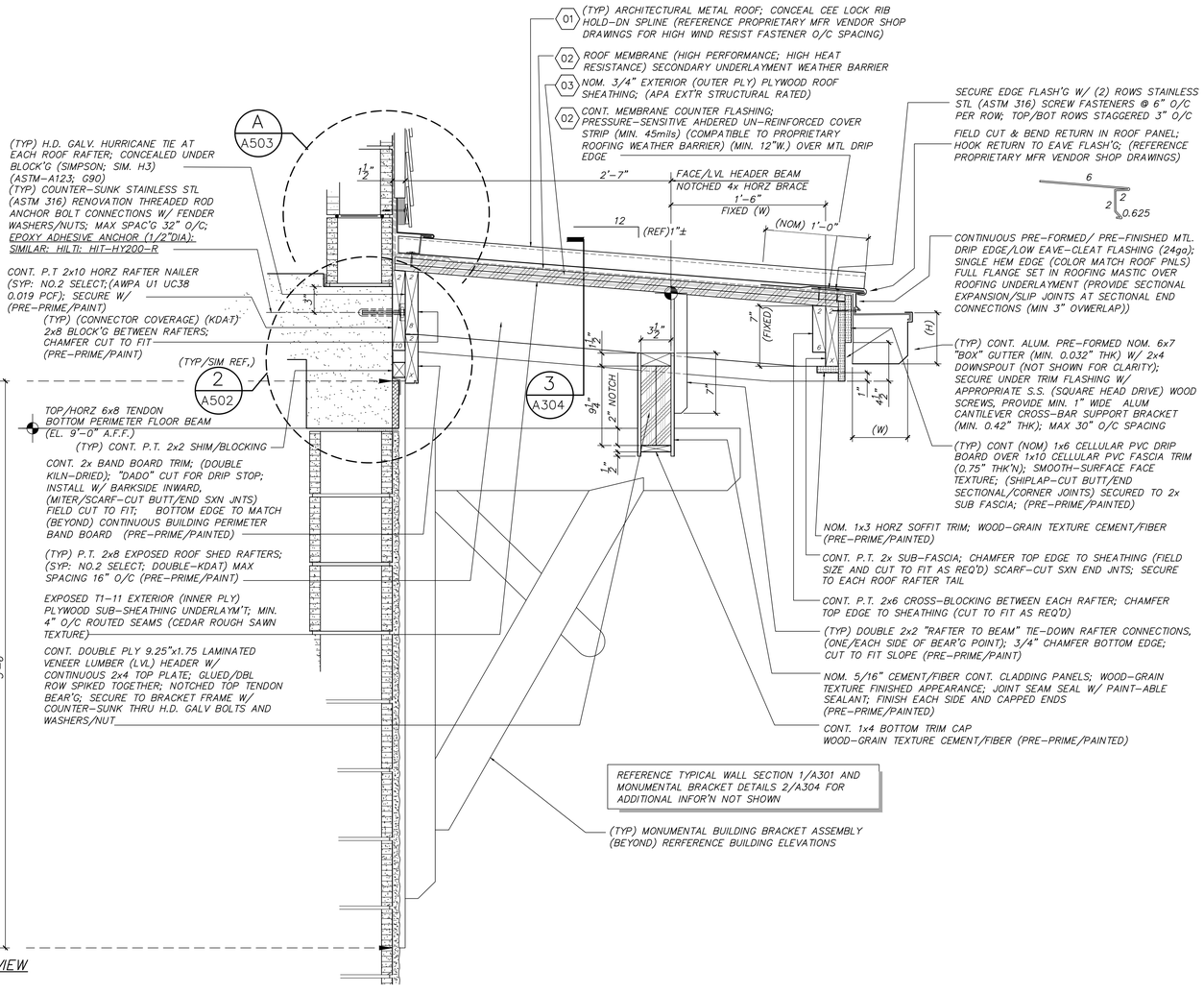


SIDE MONUMENTAL BRACKET VIEW

FRONT MONUMENTAL BRACKET VIEW

2 / A503 FRONT ENTRY - SHED ROOF STRUCTURAL BRACKET DETAILS

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



1 / A503 FRONT ENTRY - SHED ROOF SECTION

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

no.	date	revision
A	05/21/24	PROGRESS REVIEWS AND COMMENTS FOR APPROVAL
B	07/3/24	PROGRESS REVIEWS AND COMMENTS FINAL APPROVAL
C	9/9/24	ISSED FOR PRE-BID _ NOT FOR CONSTRUCTION
0	9/13/24	IFC-CODE ENFORCER REVIEW AND APPROVAL FOR PERMIT

THIS SHEET SHOWS BASIC DRAFTING STANDARDS

TOWN OF CAROLINA BEACH NORTH CAROLINA

Design Elements
M. L. Saeed (Michael), RA, AIA, LEED-AP
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910. 509. 3181

13/2024

MICHAEL LEE SAEED JR. NORTH CAROLINA REGISTERED ARCHITECT 13723 PROFESSIONAL SEAL

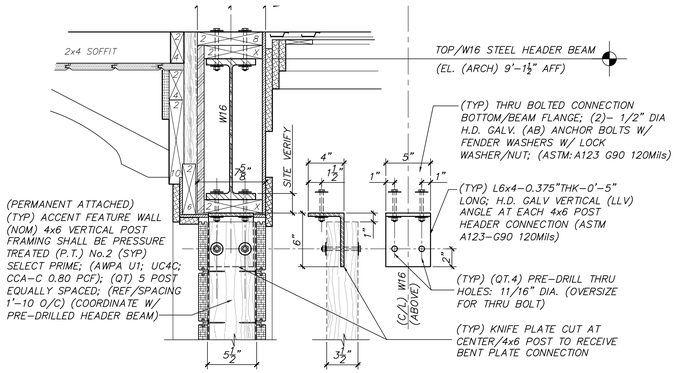
Proposed Public Restroom Facility for
Town of Carolina Beach
CAROLINA BEACH AVE. SOUTH - PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428

TYPICAL BRACKET DETAILS

job status **Contract Documents - Issue for Construction**

date	03 MA7 24
job no.	CB/RESTRM/24
drawn by	MLS/SGH
checked by	MSAIEED
drawing no.	A503
revision no.	0

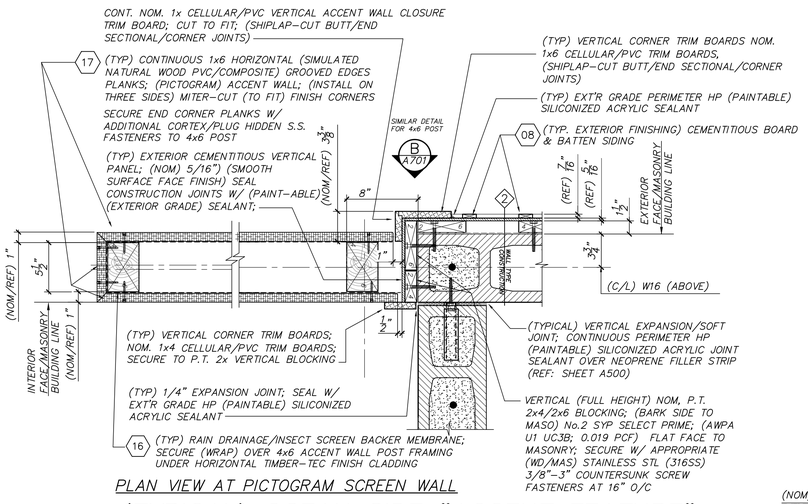
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SECTION VIEW AT PICTOGRAM SCREEN HEADWALL

A/A504 (TYPICAL) OCEAN SIDE "ACCENT FEATURE" HEADER WALL SECTION

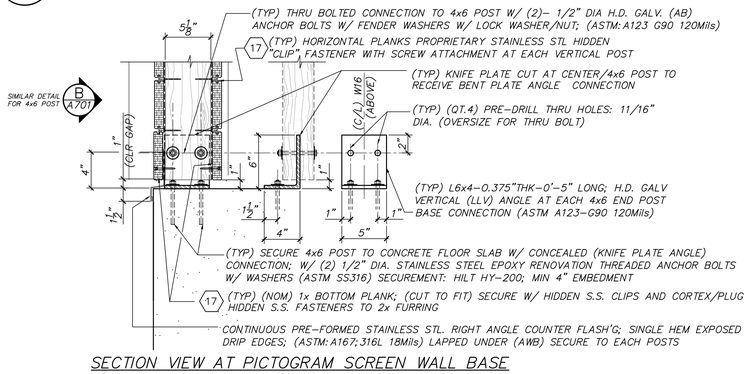
SCALE: 1-1/2" = 1'-0"



PLAN VIEW AT PICTOGRAM SCREEN WALL

B/A504 (TYPICAL) OCEAN SIDE "ACCENT FEATURE" WALL DETAIL

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



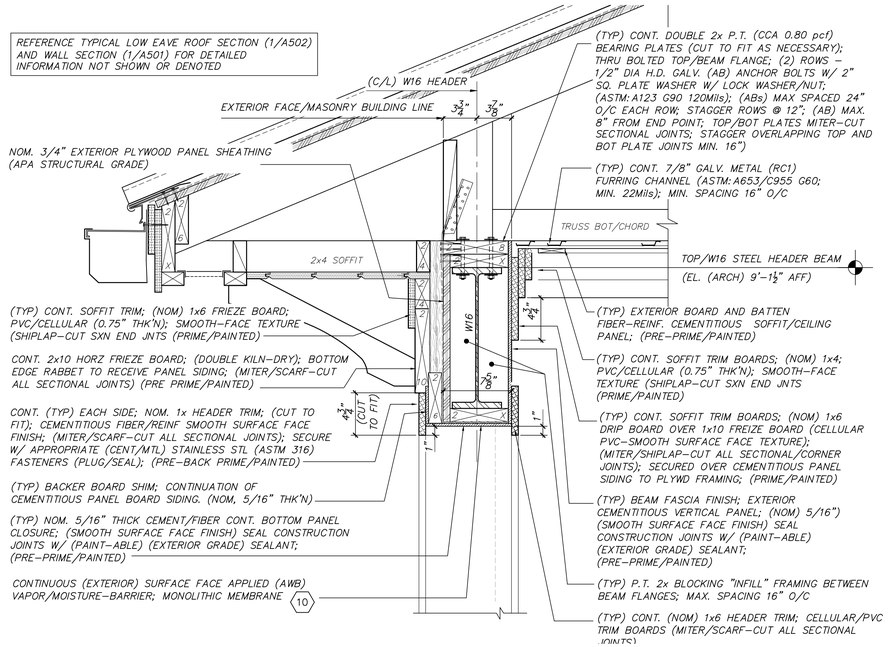
SECTION VIEW AT PICTOGRAM SCREEN WALL BASE

C/A504 (TYPICAL) OCEAN SIDE "ACCENT FEATURE" BASE WALL DETAIL

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

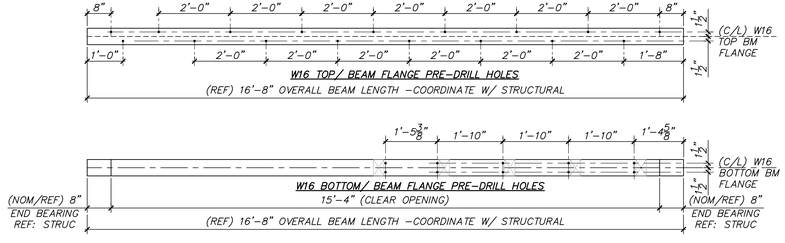
no.	date	revision
A	05/21/24	PROGRESS REVIEWS AND COMMENTS FOR APPROVAL
B	07/3/24	PROGRESS REVIEWS AND COMMENTS FINAL APPROVAL
C	9/9/24	ISSED FOR PRE-BID _ NOT FOR CONSTRUCTION
0	9/13/24	IFC-CODE ENFORCER REVIEW AND APPROVAL FOR PERMIT

REFERENCE TYPICAL LOW EAVE ROOF SECTION (1/A502) AND WALL SECTION (1/A501) FOR DETAILED INFORMATION NOT SHOWN OR DENOTED



1/A504 SECOND LEVEL (BEACH STRAND) ENTRY HEADWALL CROSS SECTION

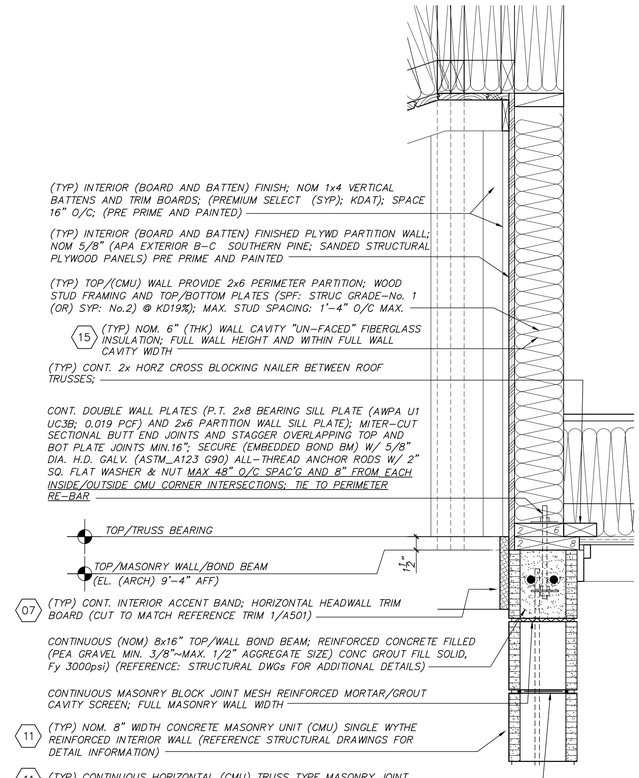
SCALE: 1-1/2" = 1'-0"



D/A504 W16 STEEL HEADER BEAM PRE-DRILL HOLE LOCATIONS DETAILS

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

(TYP) VERTICAL/HORIZONTAL TRIM BOARDS; (NOM. 0.75") CELLULAR PVC; SHALL BE (SMOOTH SURFACE FACE TEXTURE) SECURE W/ APPROPRIATE SIZE/TYPE/LENGTH (PLAS/MD) STAINLESS STL (ASTM 316) FASTENERS (PLUG/SEAL); (PRE-PRIME/PAINTED)



RESTROOM INTERIOR

2/A504 (TYPICAL) ABOVE CMU PARTITION INTERIOR HEADWALL SECTION

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

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THIS SHEET SHOWS BASIC DRAFTING STANDARDS

TOWN OF CAROLINA BEACH NORTH CAROLINA

Design Elements
M. L. Saeed (Michael), RA, AIA, LEED-AP
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203 Chestnut Street, Suite 402
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910.509.3131

13/12024

MICHAEL LEE SAEED JR. ARCHITECT NO. 13731 REGISTERED NORTH CAROLINA

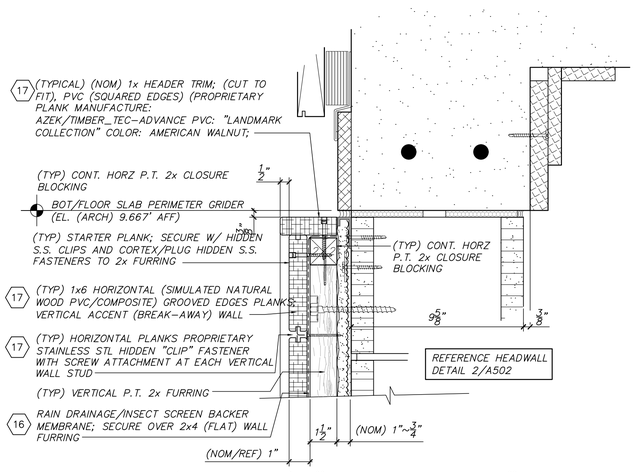
Proposed Public Restroom Facility for
Town of Carolina Beach
CAROLINA BEACH AVE. SOUTH - PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428

WALL SECTION DETAILS

Contract Documents - Issue for Construction

job status

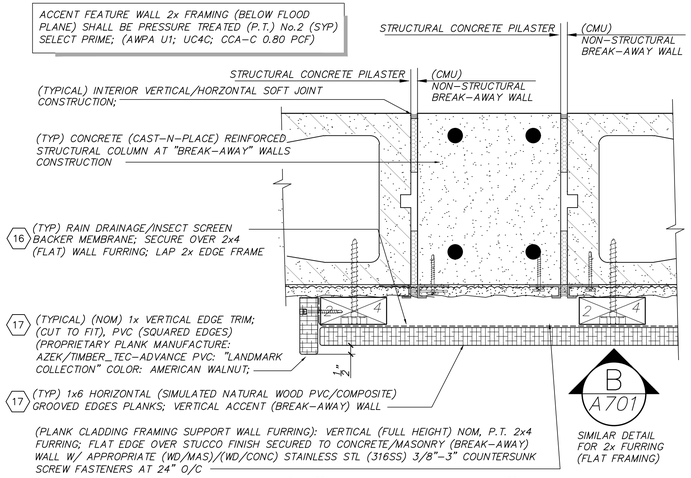
date	03 MA7 24
job no.	CB/RESTRM/24
drawn by	MLS/SGH
checked by	MSAIEED
drawing no.	A504
revision no.	0



D / A505 (TYPICAL) "BREAK–AWAY" HEAD WALL DETAIL

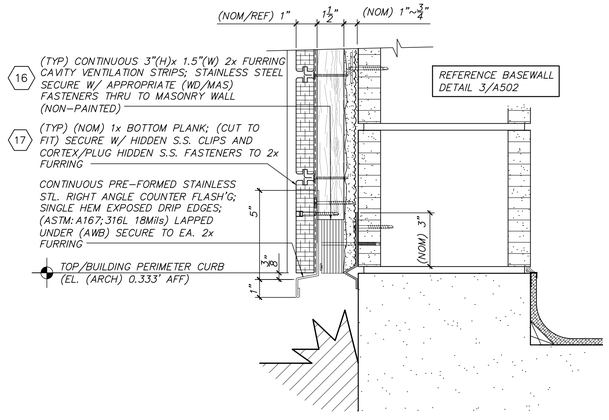
SCALE: 3" = 1'–0"

ACCENT FEATURE WALL 2x FRAMING (BELOW FLOOD PLANE) SHALL BE PRESSURE TREATED (P.T.) No.2 (SYP) SELECT PRIME; (AWPA U1; UC4C; CCA–C 0.80 PCF)



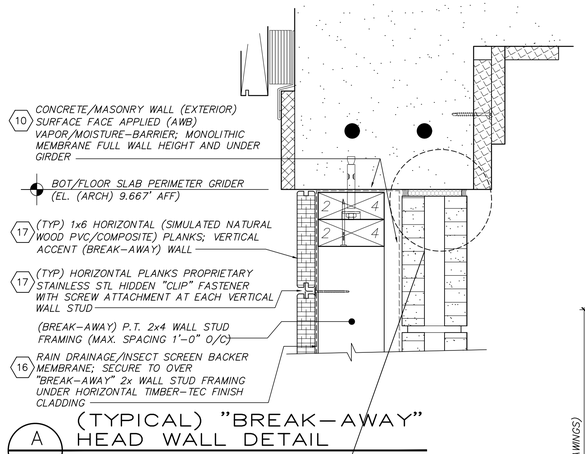
E / A505 (TYPICAL) "BREAK–AWAY" END WALL DETAIL

SCALE: 3" = 1'–0"



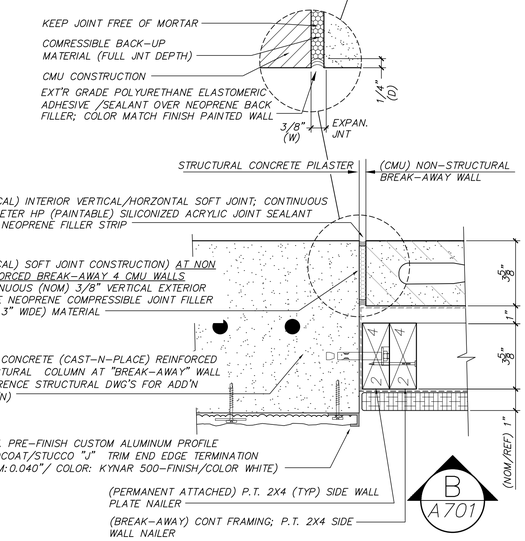
F / A505 (TYPICAL) "BREAK–AWAY" BASE WALL DETAIL

SCALE: 3" = 1'–0"



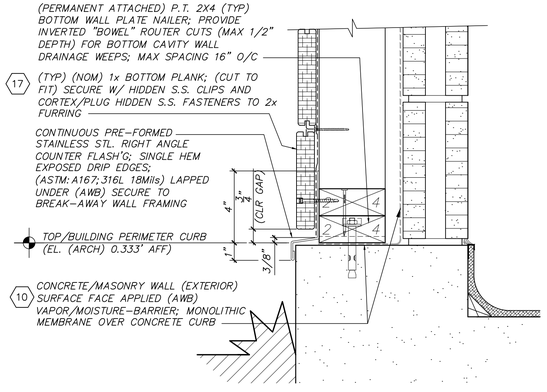
A / A505 (TYPICAL) "BREAK–AWAY" HEAD WALL DETAIL

SCALE: 3" = 1'–0"



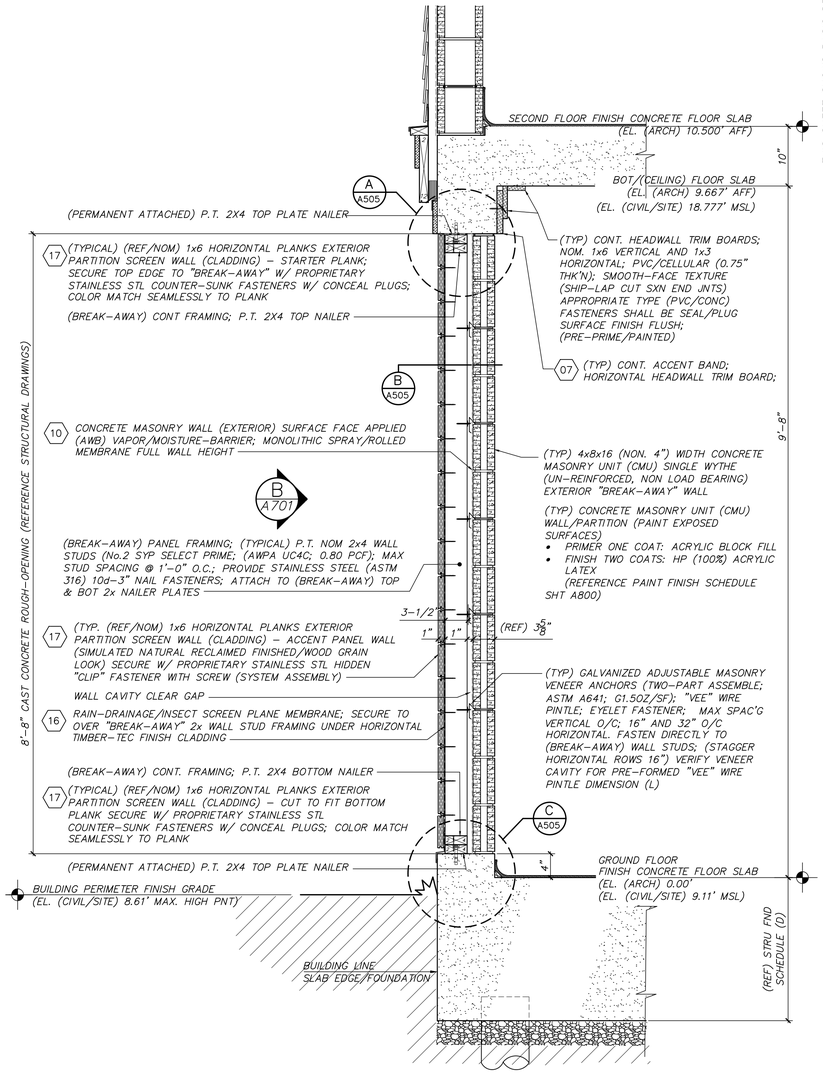
B / A505 (TYPICAL) "BREAK–AWAY" END WALL DETAIL

SCALE: 3" = 1'–0"



C / A505 (TYPICAL) "BREAK–AWAY" BASE WALL DETAIL

SCALE: 3" = 1'–0"



1 / A505 (TYPICAL) "BREAK–AWAY" EXTERIOR (FEATURE/ACCENT) WALL SECTION

SCALE: 1–1/2" = 1'–0"

ACCENT FEATURE WALL (BREAK–AWAY) 2x FRAMING (BELOW FLOOD PLANE) SHALL BE PRESSURE TREATED (P.T.) No.2 (SYP) SELECT PRIME; (AWPA U1; UC4C; CCA–C 0.80 PCF)

no.	date	revision	C	9/9/24	ISSED FOR PRE–BID _ NOT FOR CONSTRUCTION
A	05/21/24	PROGRESS REVIEWS AND COMMENTS FOR APPROVAL	0	9/13/24	IFC–CODE ENFORCER REVIEW AND APPROVAL FOR PERMIT
B	07/3/24	PROGRESS REVIEWS AND COMMENTS FINAL APPROVAL			

TOWN OF CAROLINA BEACH NORTH CAROLINA

THIS SHEET SHOWS BASIC DRAFTING STANDARDS

Design Elements
M. L. Saeed (Michael), RA, AIA, LEED-AP
Architectural Corporation (NC–31371)
3703 Oleander Drive, Suite 1
Wilmington, North Carolina 28405
910.509.3181

13/2024

04/

MICHAEL LEE SAEED JR. ARCHITECT NORTH CAROLINA 31371 REGISTERED PROFESSIONAL SEAL

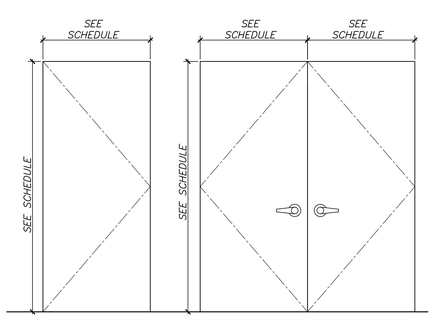
Proposed Public Restroom Facility for
Town of Carolina Beach
CAROLINA BEACH AVE. SOUTH – PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428
BREAK–AWAY TIMBER–TEC WALL SECTION
job status **Contract Documents - Issue for Construction**

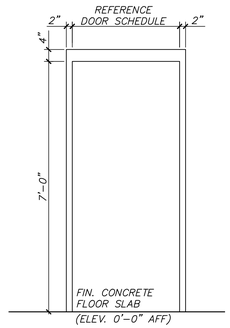
date	03 MA7 24
job no.	CB/RESTRM/24
drawn by	MLS/SGH
checked by	MSAIEED
drawing no.	A505
revision no.	0

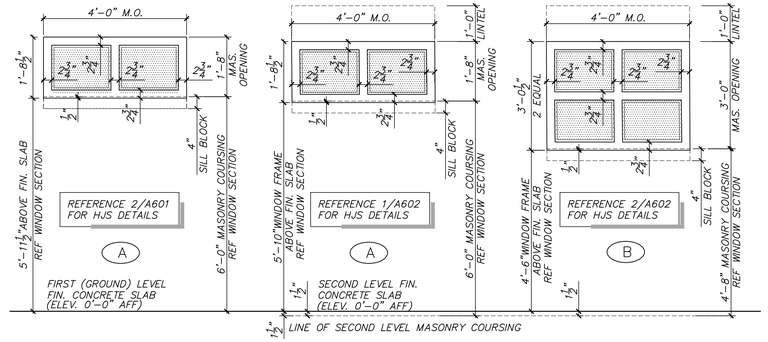
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DOOR SCHEDULE

DR NO.	LOCATION	DOOR SIZE WIDTH	HEIGHT	THK.	TYPE	MAT'L.	ELEV	GLAZING	FRAME TYPE	FRAME MAT'L.	RATED UL	HDW	HJS DETAIL	NOTES	DR NO.
01	GROUND LEVEL MEN'S RESTROOM	3'-0"	7'-0"	1 3/4"		FIBERGLASS	ELEV 1	-	1	FIBERGLASS	-	HDW 1	1/A601/SIM	-	01
02	GROUND LEVEL UTILITY STORAGE	3'-0"	7'-0"	1 3/4"		FIBERGLASS	ELEV 1	-	1	FIBERGLASS	-	HDW 2	1/A601/SIM	-	02
03	GROUND LEVEL WOMEN'S RESTROOM	3'-0"	7'-2"	1 3/4"		FIBERGLASS	ELEV 1	-	1	FIBERGLASS	-	HDW 1	1/A601/SIM	-	03
04	SECOND LEVEL MEN'S RESTROOM	3'-0"	7'-0"	1 3/4"		FIBERGLASS	ELEV 1	-	1	FIBERGLASS	-	HDW 1	1/A601	-	04
05	SECOND LEVEL UTILITY STORAGE	3'-0"	7'-0"	1 3/4"		FIBERGLASS	ELEV 1	-	1	FIBERGLASS	-	HDW 2	1/A601	-	05
06	SECOND LEVEL ELECTRICAL CLOSET	(PAIR) 3'-0"	7'-0"	1 3/4"		FIBERGLASS	ELEV 2	-	1	FIBERGLASS	-	HDW 3	1/A601	-	06
07	SECOND LEVEL WOMEN'S RESTROOM	3'-0"	7'-0"	1 3/4"		FIBERGLASS	ELEV 1	-	1	FIBERGLASS	-	HDW 1	1/A601	-	07







A A600 (TYP) DOOR ELEVATIONS — NOT TO SCALE

B A600 DOOR FRAME ELEVATION — NOT TO SCALE

C A600 (TYP) WINDOW FRAME ELEVATIONS — SCALE: 1/2" = 1'-0"

ABBREVIATED DOOR HARDWARE LEGEND

OPERABLE DOOR HARDWARE SHALL BE MOUNTED BETWEEN 30"(MIN.) AND 42"(MAX.) ABOVE FLOOR OR GROUND LEVEL; DESIGNATED FOR (ANSI A117.1/DOJ-ADA) "ARCHITECTURAL BARRIER FREE" ACCESSIBLE FOR PERSONS W/ DISABILITIES. CONTRACTOR SHALL COORDINATE LATCHSET KEYING SCHEDULE WITH OWNER BY PROVIDING MASTER AND GRAND MASTER KEYING SYSTEM

DOOR HARDWARE (HDW) DENOTED "LOCKSETS AND LATCHSET" ARE REPRESENTED AS DESIGNER'S RECOMMENDATIONS; CONTRACTOR SHALL VERIFY THEIR PROPER FUNCTIONAL USE WITH DOOR HARDWARE SPECIALIST AND OWNER FOR THEIR INTENDED OPERATIONAL USES

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DOOR ASSEMBLY AND PROVIDE DOOR HARDWARE SPECIALIST TO THEIR PROPER HARDWARE IDENTIFICATIONS AND QUANTITIES AS SHOWN ON PLANS. PRIOR TO ORDERING ANY HARDWARE, GENERAL CONTRACTOR TO SUPPLY PROPERTY BUILDING OWNER WITH SPECS AND CUT SHEETS FOR APPROVAL AND TO COORDINATE WITH DOOR HARDWARE SPECIALIST AN ASSIGNED "MASTER" KEYING AND "GRAND MASTER" KEYING SYSTEM.

EXTERIOR DEDICATED EXIT/ACCESS RESTROOM DOOR (FIBERGLASS (FRP) DOOR AND FRAME SYSTEM)
[HDW 1]
- INSULATED FRAME W/ RETURN PROFILE; (REINFORCED HINGE PLATES)
- NOTE: ALL HARDWARE TO MEET IMPACT RESISTANCE REQUIREMENTS

3 STAINLESS STL. SEALED (WIDE FLANGE) BEARING HINGES (NRP) — US32D

1 "UNLOCK OR LOCK" INDICATOR BOTH SIDES; F16 FUNCTION, (CORBIN RUSSWIN ML2012) MORTISE KEYED DEADBOLT (MAX.48" A.F.F.)

1 (INTERIOR PANEL) NOM. 4"x16" STAINLESS STL. PUSH PLATE — US32D

1 (EXTERIOR PANEL) NOM. 4"x16" STAINLESS STL. 1" DIA. PULL BAR/ PLATE — US32D

1 OVERHEAD AUTOMATIC CLOSER (HEAVY DUTY FLATFORM STYLE ARMS) LIMITED (90°) OPEN RESISTANCE; SECURE W/ TAMPER-PROOF STAINLESS STL. POST/SCREW-BOLT THRU PANEL CONNECTION; (INSTALL CLOSURE: PUSH SIDE DIRECTION OF TRAVEL)

2 34"(W) X 12"(H) STAINLESS STEEL BOTTOM KICK PLATE (BOTH SIDES) ASTM SS 316L 54MILS — US32D

1 EXTERIOR EXTRUDED ALUMINUM; HEADER RAIN DIVERTER

1 JAMB/HEADER NEOPRENE GASKETING WEATHER SEAL-FRAME STOP KIT

EXTERIOR LOCKABLE STORAGE FUNCTION (FIBERGLASS (FRP) DOOR AND FRAME SYSTEM)
[HDW 2]

3 STAINLESS STL. SEALED BEARING NON-REMOVEABLE PINS (NRP) HINGES — US32D

1 LOCKSET (SIM./REF. ANSI F86) STOREROOM/CLOSET FUNCTION; KEY OPERATED; LEVER TYPE W/ END-RETURN STYLE; (HEAVY DUTY ANSI GRADE 2) — US26D

1 OVERHEAD (LOW ENERGY/LOW SPEED) AUTOMATIC (ADA/ANSI) "BARRIER FREE" OPENER/CLOSER W/ (HEAVY DUTY FLATFORM STYLE ARMS) W/ PRESSURE RELEASE (PUSH/PULL) CONTROL HOLD OPEN DEVICE - LIMITED (90°) OPEN RESISTANCE; SECURE W/ TAMPER-PROOF STAINLESS STL. POST/SCREW-BOLT THRU PANEL CONNECTION; (INSTALL CLOSURE: PUSH SIDE DIRECTION OF TRAVEL) (ICC-ANSI/ADA ACCESSIBLE PRESSURE SETTING)

2 34"(W) X 12"(H) STAINLESS STEEL BOTTOM KICK PLATE (BOTH SIDES) ASTM SS 316L 54MILS — US32D

1 DOOR FRAME SILENCERS SET

PAIR DOORS EXTERIOR LOCKABLE STORAGE FUNCTION (FIBERGLASS (FRP) DOOR AND FRAME SYSTEM)
[HDW 3]

6 STAINLESS STL (FULL MORTISE) BUTT KNUCKLE HINGES — US32D

(ACTIVE PANEL)
1 "STOREROOM/CLOSET" FUNCTION (SIMILAR REFERENCE: ANSI LOCKSET F86) LEVER TYPE HANDLE W/ END RETURN (HEAVY DUTY ANSI GRADE 2) — US26D

(INACTIVE PANEL)
1 "SINGLE DUMMY TRIM-FIXED" FUNCTION LEVER TYPE HANDLE W/ END RETURN — US26D

2 OVERHEAD SURFACE MOUNT (HEAVY DUTY FLATFORM STYLE ARMS) W/ "FRICTION STOP" PRESSURE RELEASE (PUSH/PULL) CONTROL HOLD OPEN DEVICE - LIMITED (90°) OPEN RESISTANCE; STAINLESS STEEL SECURE W/ TAMPER-PROOF STAINLESS STL. POST/SCREW-BOLT THRU PANEL CONNECTION; (INSTALL CLOSURE: PUSH SIDE) (ICC-ANSI/ADA ACCESSIBLE PRESSURE SETTING)

1 HEAD AND FOOT MORTISE (CONCEALED) FLUSH TOGGLE; PROVIDE SILL AND HEADER FLUSH GROMMETS

LEGEND

HATCH PATTERN INDICATES INTERIOR WINDOW FILM; (REFERENCE MANUFACTURER "3M FASARA GLASS FINISHES" COLOR: MILKY CRYSTAL (SH2MLCRX)

DOOR HARDWARE GENERAL CONDITIONS, SCHEDULES & NOTES

DOOR HARDWARE (HDW) DENOTED "LOCKSET AND LATCHSETS" ARE REPRESENTED AS DESIGNER'S PROPOSED RECOMMENDATIONS. IT SHALL BE THE RESPONSIBILITY OF GENERAL CONTRACTOR TO VERIFY (HDW) PROPER FUNCTIONAL USE WITH BUILDING OWNER INTENDED OPERATIONAL USES AND THE FINAL REFERENCE RECOMMENDATIONS FROM DOOR HARDWARE SPECIALIST.

OPERABLE / FIXED DOOR HARDWARE: SHALL BE (TOP OF DOOR HANDLE) MOUNTED BETWEEN 34"(MIN.) AND 42"(MAX.) ABOVE FLOOR OR GROUND LEVEL AND LEVER HANDLES (TYPE STYLE W/ END RETURN), (OR IF APPLICABLE: LOW RIM PUSH CROSSBAR) PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRED TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. WHEN SLIDING DOORS ARE FULLY OPEN, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES; WHERE DENOTED: EXIT/PANIC DEVICES SHALL BE PUSH/TOUCH BAR EXTENDING MINIMAL 50 PERCENT THE WIDTH OF THE DOOR PANEL. ALL SHALL BE "ARCHITECTURAL BARRIER FREE" ACCESSIBLE FOR PERSONS W/ DISABILITIES (REFERENCE: DOJ ANSI/ADAAG GUIDELINES (OR) US ACCESS BOARD).

REGARDLESS OF THE OCCUPANT LOAD SERVED, EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT ANY SPECIAL KNOWLEDGE OR EFFORT, MANUALLY OPERATED EDGE OR SURFACE MOUNTED FLUSH BOLTS AND SURFACE BOLTS OR ANY OTHER TYPE OF DEVICE THAT MAY BE USED TO CLOSE OR RESTRAIN THE DOOR OTHER THAN BY OPERATION OF THE LOCKING DEVICE SHALL NOT BE USED. WHERE EXIT DOORS ARE SUED IN PAIRS AND APPROVED AUTOMATIC FLUSH BOLTS ARE USED THE DOOR LEAF HAVING AND AUTOMATIC FLUSH BOLTS SHALL HAVE NO DOOR KNOB OR SURFACE MOUNTED HARDWARE. THE UNLATCHING OF ANY DOOR PANEL SHALL NOT REQUIRED MORE THAN ONE OPERATION.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DOOR ASSEMBLIES, MATERIAL QUALITY OF COMPONENTS (ANSI: HEAVY DUTY (HD) GRADE 1/CLASS 1) AND PROVIDE AS IDENTIFIED BY DOOR HARDWARE SPECIALITIES THE PROPER HARDWARE IDENTIFICATIONS AND QUANTITIES AS SHOWN ON PLANS. PRIOR TO ORDERING ANY HARDWARE, GENERAL CONTRACTOR TO SUPPLY [BUILDING OWNER] WITH CUSTOM DOOR PANEL STYLES, DOOR FRAME AND DOOR HARDWARE SPECIFICATIONS WITH DATA CUT SHEETS FOR APPROVAL. GENERAL CONTRACTOR SHALL COORDINATE LATCHSET KEYING SCHEDULE WITH BUILDING OWNER AND DOOR HARDWARE SPECIALIST BY PROVIDING AND ASSIGNED "MASTER" AND "GRAND MASTER" KEYING SYSTEM"

GENERAL CONTRACTOR SHALL COORDINATE LATCHSETS AND LOCKSETS KEYING/ (IF APPLICABLE) DIGITAL CODING SCHEDULE WITH BUILDING OWNER BY PROVIDING "MASTER" AND "GRAND MASTER" KEYING SYSTEM" (UNLESS OTHERWISE DIRECTED BY BUILDING OWNER). REFERENCE STANDARD (ANSI/ADA) ACCESSIBILITY DETAILS A/N100)

ALL DOOR GLAZING PANELS, SIDELITE GLAZING AND GLAZING ADJACENT TO WALKWAYS SHALL BE SAFETY (HUMAN IMPACT LOAD AND WINDBORNE DEBRIS IMPACT RESISTANT) GLAZING RESISTANCE PRODUCTS IN COMPLIANT WITH THE APPLICABLE REQUIREMENTS UNDER ANSI Z97.1 AND CPSC 16 CFR PART 1201 CATEGORY I AND II FOR SAFETY-RATED IMPACT GLAZING WHEN SUCH PRODUCTS ARE INSTALLED IN CONDITIONS CONSIDERED HAZARDOUS FOR HUMAN IMPACT AND AS REQUIRED UNDER RELATED SECTIONS OF THE INTERNATIONAL BUILDING CODE: ICC/NCBC-2018; CHAPTER 24; SECTION 2406;

ALL EXTERIOR GLAZING TO BE HURRICANE IMPACT RATED PER ASTM E 1886, INFORMATION IN ASTM E 1996 AND TAS 201/203 FOR WINDBORNE DEBRIS (LARGE MISSILE IMPACT) RESISTANCE; ALL GLAZING PRODUCT PANELS SHALL BEAR THE PROPRIETARY MFR LISTED LABEL OF APPROVAL.

GENERAL STOREFRONT NOTES

TYPICAL WINDOW WALL STOREFRONT FRAMING ELEVATIONS ARE SCHEMATICALLY SHOWN FOR THEIR DESIGN INTENTS; IT SHALL BE THE GENERAL CONTRACTOR RESPONSIBILITY TO VERIFY ALL (PROPOSED CONSTRUCTION) ACTUAL BUILDING ROUGH-IN CONCRETE, MASONRY UNIT CONSTRUCTION AND WALL STUD ROUGH-IN FRAMING OPENINGS W/ STOREFRONT/WINDOW VENDOR'S DETAILED SHOP DRAWINGS FOR FINAL INSTALLATION

EXTERIOR AND INTERIOR ALUM. WINDOWS AND FRAMES SYSTEM ASSEMBLIES: BASIS OF DESIGN: KAWNEER IR 501UT FRAMING SYSTEM HURRICANE IMPACT SYSTEM
(TYP) NOM. 5" WIDTH ALUM. EXTRUDED FIXED "THERMALLY BROKEN" FRAMED EXTERIOR WINDOW SYSTEM W/ 1-5/16" INSULATED GLAZING; VERTICAL AND HORIZONTAL NOM. 2-3/4" FRAME DEPTH (FRAME COLOR: ALUMINUM FRAME (AAMA CLASS 1 611-98) FINISHED COATING (KYNAR) HI-PERFORMANCE FLUOROPOLYMER COATING (AMA 2605); COLOR (BLACK) SELECTED FROM MANUFACTURER'S STANDARD COLORS; GLAZING TYPE: VITRO SOLORBAN 70 ON SOLARGRAY LOW-E#2 TINTED, VITRO CLEAR INTERIOR GLASS; SHADING COEFFICEINT 0.20; SHGC MIN. 0.17; VLT 32%) NOTE: EACH WINDOW SHALL HAVE MFG'S PRODUCT PERFORMANCE (SIM. NFRC) SUBMITTAL DOCUMENTATION AVAILABLE FOR AHJ INSPECTION REVIEW.

WINDOW SYSTEM ASSEMBLY (FRAMING-GLAZING) SHALL BE FABRICATED AND INSTALLED PER DESIGN WIND PRESSURE (DP) WIND RATING FOR ITS GEOGRAPHICAL LOCATION; WINDOW INSTALLER SHALL BE RESPONSIBLE FOR ADEQUATELY USING APPROPRIATE MOULDING TRIM STOPS, CORROSION-RESISTANCE FASTENER TYPES AND SPACING AND FOR LATERAL STABILITY TO RESIST DESIGNATED WIND SPEEDS (DP) RATING. [2018-NCBC CHAPTER 16 (FIG 1609.3(3) EXTRAPOLATION OF WIND SPEED: RISK CATEGORY (IV): 160 MPH]

ALL GLAZING PANELS, SIDELITE GLAZING AND GLAZING ADJACENT TO WALKWAYS SHALL BE SAFETY (HUMAN IMPACT LOAD AND WINDBORNE DEBRIS IMPACT RESISTANT) GLAZING RESISTANCE PRODUCTS IN COMPLIANT WITH THE APPLICABLE REQUIREMENTS UNDER ANSI Z97.1 AND CPSC 16 CFR PART 1201 CATEGORY I AND II FOR SAFETY-RATED IMPACT GLAZING WHEN SUCH PRODUCTS ARE INSTALLED IN CONDITIONS CONSIDERED HAZARDOUS FOR HUMAN IMPACT AND AS REQUIRED UNDER RELATED SECTIONS OF THE INTERNATIONAL BUILDING CODE: ICC/NCBC-2018; CHAPTER 24; SECTION 2406; ALL EXTERIOR GLAZING TO BE HURRICANE IMPACT RATED PER ASTM E 1886, INFORMATION IN ASTM E 1996 AND TAS 201/203 FOR WINDBORNE DEBRIS (LARGE MISSILE IMPACT) RESISTANCE; ALL GLAZING PRODUCT PANELS SHALL BEAR THE PROPRIETARY MFR LISTED LABEL OF APPROVAL.

NOTE: PROPRIETARY STOREFRONT FRAME AND GLAZING MANUFACTURER: KAWNEER (SYSTEM ASSEMBLY) IR 501UT FRAMING - HURRICANE IMPACT RESISTANCE: MANUFACTURE REPRESENTATIVE; MATKINS GLASS; SCOTT LONG ph 910-762-2755 scott@capefearglass.com

SAFETY (S) - DESIGNATES HUMAN IMPACT RESISTANCE:

ALL SAFETY GLAZING PRODUCTS SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS UNDER CPSC 16 CFR PART 1201 CATEGORY II FOR TEMPERED/SAFETY-IMPACT GLAZING WHEN SUCH PRODUCTS ARE INSTALLED IN CONDITIONS CONSIDERED HAZARDOUS FOR HUMAN IMPACT RESISTANCE.
GENERAL CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE TO PROVIDE OVERHEAD (THRU WALL) CONDUITS AND JUNCTION BOXES FOR ELECTRONIC CONTROL LOCKING DEVICES: PRE-PREP DOOR FRAME HINGES, HEADER FRAME AND STRIKE LATCH W/ PROPRIETARY ELECTRONIC ACCESS/EGRESS CONTROL WIRING HARNESSES.

DOOR/DOOR FRAME GENERAL CONDITION PLAN NOTES

A. TYPICAL EXTREME DUTY FIBERGLASS (FRP) DOOR AND FRAME SYSTEM;.
PROPRIETARY MANUFACTURER "TIGER DOORS" PH 888-891-4416, WWW.TGERDOOR.COM; MANUF. REPRESENTATIVE: AJ SIGMON, PH 704.956.9070, EMAIL: asigmon@asherproductsinc.com
DOORS: LAMINATED FRP FACE SHEETS SHALL BE APPLIED WHILE WET AND UNCURED TO AN INTERNAL DOOR STILE AND RAIL SUBFRAME/CORE ASSEMBLY AND THEN PRESSMOLDED UNDER HEAT AND PRESSURE. THE COMPOSITE DOOR PANEL MUST BE INTEGRALLY FUSED OVER ITS ENTIRE SURFACE AREA, NOT JUST ADHESIVE-BONDED AT PERIMETER STILES AND RAILS. DOORS SHALL REMAIN UNDER PRESSURE DURING CURING FOR FLAT, WARP-FREE SURFACES. HIGH-MODULUS PULTRUDED FRP SQUARE OR RECTANGULAR TUBE SUBFRAME IS TO BE PROVIDED WITHIN THE DOOR. TUBES ARE TO BE MITERED AND JOINED INTERNALLY AT THE CORNERS WITH SOLID POLYMER BLOCKS TO YIELD A ONE-PIECE UNIT THAT DOES NOT REQUIRE ANY SECONDARY EXTERNAL SEALING. PROVIDE A TUBULAR MIDRAIL ACROSS WIDTH OF DOOR AT LOCK HEIGHT, AND ADDITIONAL HORIZONTAL RAILS WHERE SPECIFIC DESIGN CONDITIONS DICTATE. DOORS SHALL INCORPORATE MOLDED-IN FRP EDGE STRIPS, CHEMICALLY BONDED TO THE SUBFRAME STILES, FOR MACHINING OF HARDWARE MORTISES SO AS NOT TO CUT OR OTHERWISE COMPROMISE THE INTEGRITY OF THE PULTRUDED STILES, NOR ALLOW MOISTURE TO PENETRATE INTO THE CORE OF THE DOOR. ALL CONNECTIONS SHALL BE CHEMICALLY WELDED. NO MECHANICAL FASTENERS WILL BE ALLOWED. THE USE OR INCLUSION OF ALUMINUM, STEEL, GYPSUM OR WOOD INTO STILE AND RAIL CONSTRUCTION IS NOT PERMITTED. CORE: TRIANGULAR SHAPED 3/8" CELL PHENOLIC RESIN IMPREGNATED KRAFT PAPER HONEYCOMB CORE. INTERNAL (DOOR AND FRAME) REINFORCEMENT: HIGH-MODULUS PULTRUDED TUBULAR FRP, HIGH-DENSITY POLYMER COMPRESSION BLOCKS, OR PLASTIC COMPRESSION BLOCKING AT ALL HARDWARE LOCATIONS, AND CORNER LOCATIONS. DOOR AND FRAME FACINGS SHALL UTILIZE A CHEMICAL RESISTANT THERMOSETTING POLYESTER RESIN SYSTEM WITH FIBER REINFORCING LAYERS. EXPOSED FRP DOOR AND FRAME FACES SHALL HAVE A 3-4 MILS (WET) FACTORY APPLIED TWO-PART ALIPHATIC POLYURETHANE FULLY CURED COATING OF INDUSTRIAL URETHANE.
FRAMES: HIGH-MODULUS PULTRUDED STRUCTURAL FRP SHAPE; FRAME JAMBS AND HEADER SHALL BE JOINED AT CORNERS VIA MITER CONNECTIONS WITH HIDDEN FRP ANGLE CLIPS AND ASSOCIATED (STAINLESS STEEL: ASTM 316) FASTENERS. REINFORCING SHALL BE CHEMICALLY WELDED TO DOOR FRAME MATERIAL AT REQUIRED LOCATIONS. (DOOR AND FRAME COLOR MATCH: BENJAMIN MOORE HC-28 SHELBURNE BUFF; ALLOW APPROPRIATE LEAD-TIME FOR CUSTOM COLOR MATCH.

B. DOOR PANEL AND DOOR FRAME SYSTEM ASSEMBLIES SHALL BE IN COMPLIANCE WHERE APPLICABLE, BUT NOT LIMITED TO, WITH THE FOLLOWING RECOGNIZED STANDARDS: (SDI), (ANSI/UL), (ANSI/BHMA) AND (ASTM). ANSI: HEAVY DUTY (HD) INDUSTRIAL: GRADE 1; CLASS 1.

C. SUPPLY WALL MOUNTED (PROVIDE CONCAVE RECESS PUSH BUTTON PROFILE BUMPER CENTERED TO HARDWARE LEVER) DOOR STOPS ON ALL DOORS MOUNTED W/ THE HINGE SIDE 5" OR LESS FROM A PERPENDICULAR WALL; SUPPLY OUTSWING EXTERIOR DOORS W/ GROUND MOUNTED PEDESTAL STOPS OR OVERHEAD LIMITS

no.	date	revision	C	9/9/24	ISSED FOR PRE-BID — NOT FOR CONSTRUCTION
A	05/21/24	PROGRESS REVIEWS AND COMMENTS FOR APPROVAL	0	9/13/24	IFC-CODE ENFORCER REVIEW AND APPROVAL FOR PERMIT
B	07/3/24	PROGRESS REVIEWS AND COMMENTS FINAL APPROVAL			

TOWN OF CAROLINA BEACH NORTH CAROLINA

THIS SHEET SHOWS BASIC DRAFTING STANDARDS

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910.509.5137

01/ 13/2024

MICHAEL LEE SAIEED JR. 13729 REGISTERED ARCHITECT NORTH CAROLINA WILMINGTON

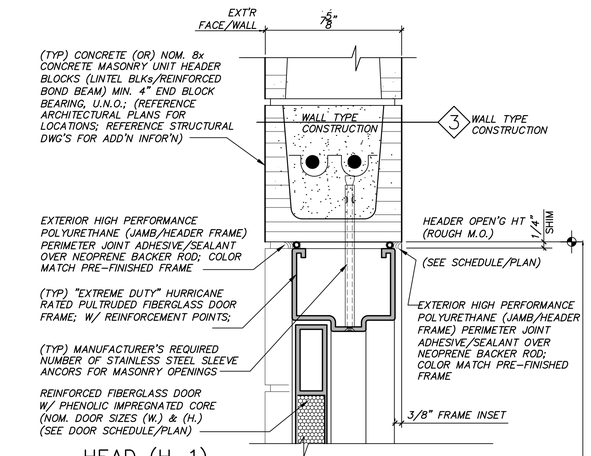
Proposed Public Restroom Facility for
Town of Carolina Beach
CAROLINA BEACH AVE. SOUTH - PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428

DOOR & WINDOW TYPES, DETAILS & SCHEDULE

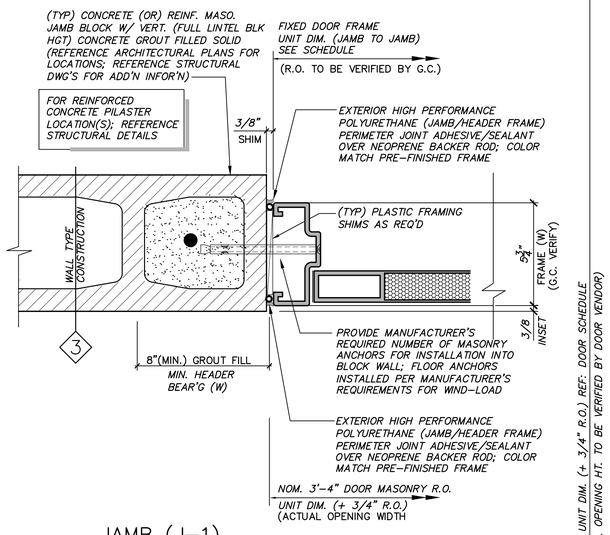
job status
Contract Documents - Issue for Construction

date	03 MA7 24
job no.	CB/RESTRM/24
drawn by	MLS/SGH
checked by	MSAIEED
drawing no.	A600
revision no.	0

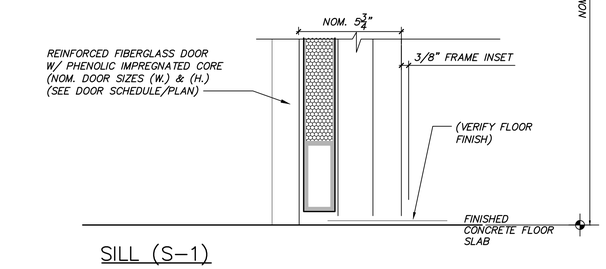
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HEAD (H-1)



JAMB (J-1)



SILL (S-1)

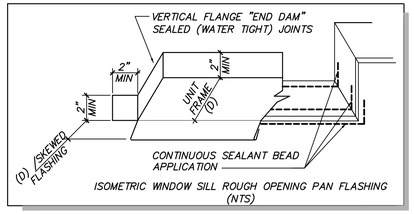
1 A601 EXTERIOR FIBERGLASS DOOR DETAILS
SCALE: 3" - 1'-0"

no.	date	revision	C	9/9/24	ISSED FOR PRE-BID _ NOT FOR CONSTRUCTION
A	05/21/24	PROGRESS REVIEWS AND COMMENTS FOR APPROVAL	0	9/13/24	IFC-CODE ENFORCER REVIEW AND APPROVAL FOR PERMIT
B	07/3/24	PROGRESS REVIEWS AND COMMENTS FINAL APPROVAL			

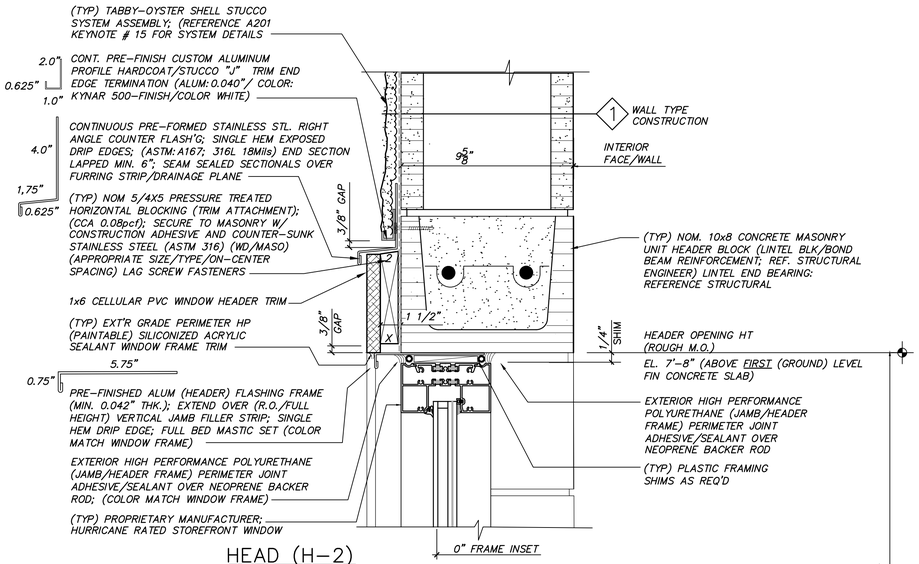
(TYP) VERTICAL/HORIZONTAL TRIM BOARDS; (NOM. 0.75") CELLULAR PVC; SHALL BE (SMOOTH SURFACE FACE TEXTURE) SECURE W/ APPROPRIATE SIZE/TYPE/LENGTH (PLAS/WD) STAINLESS STL (ASTM 316) FASTENERS (PLUG/SEAL); (PRE-PRIME/PAINTED)

VERIFY STAINLESS STEEL (ASTM 316)FASTENERS SPAC'G W/ DOOR & STOREFRONT MFG. FOR WIND LOAD RESISTANCE; 148 MPH "RISK CATEGORY II; WIND BORNE AREA) WIND SPEED

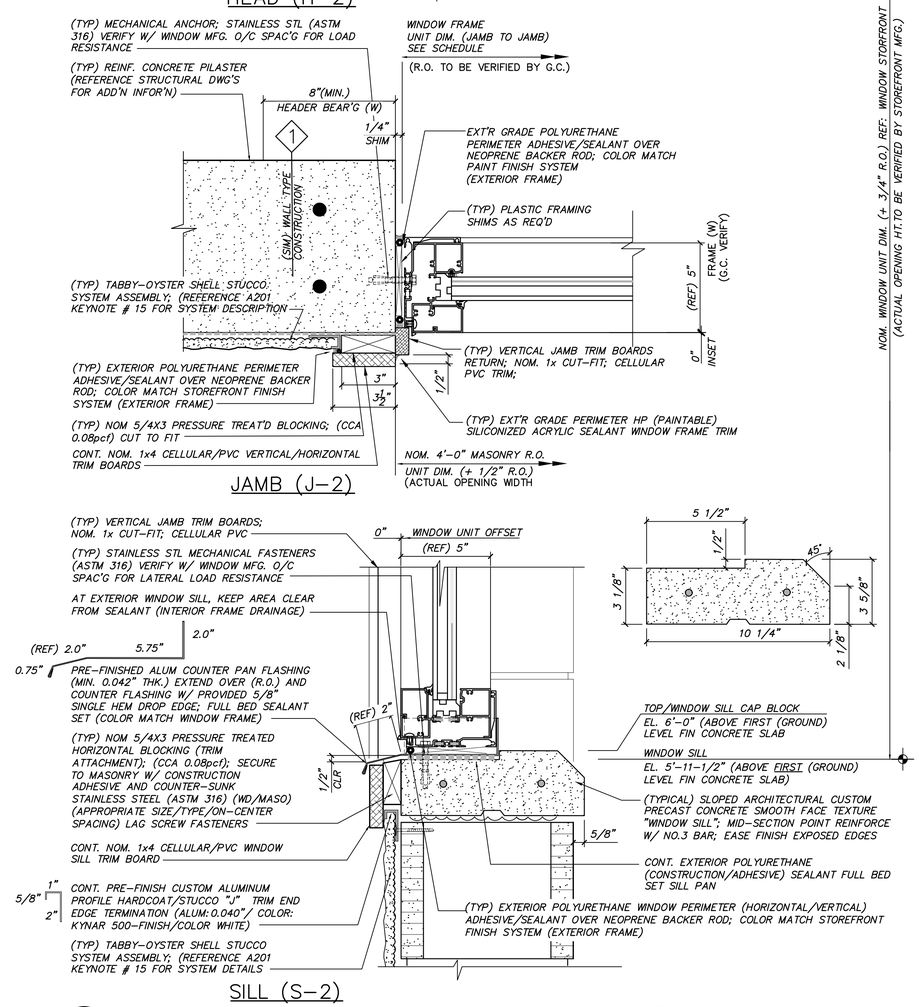
TYPICAL WINDOW WALL FRAMING DESIGNS ARE ARCHITECTURALLY SHOWN FOR THEIR DESIGN INTENTS; IT SHALL BE THE CONTRACTOR RESPONSIBILITY TO VERIFY ALL (PROPOSED CONSTRUCTION) MASONRY AND WALL (WOOD AND METAL) STUD ROUGH OPENING DIMENSIONS W/ VENDOR'S DETAILED SHOP DRAWINGS FOR FINAL INSTALLATION



A A601 (TYP) (R.O.) WINDOW SILL PAN FLASHING
NOT TO SCALE



HEAD (H-2)



JAMB (J-2)

SILL (S-2)

2 A601 FIRST (GROUND) LEVEL WINDOW "A" DETAIL
SCALE: 3" - 1'-0"

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TOWN OF CAROLINA BEACH NORTH CAROLINA

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910-399-3133

15/2024

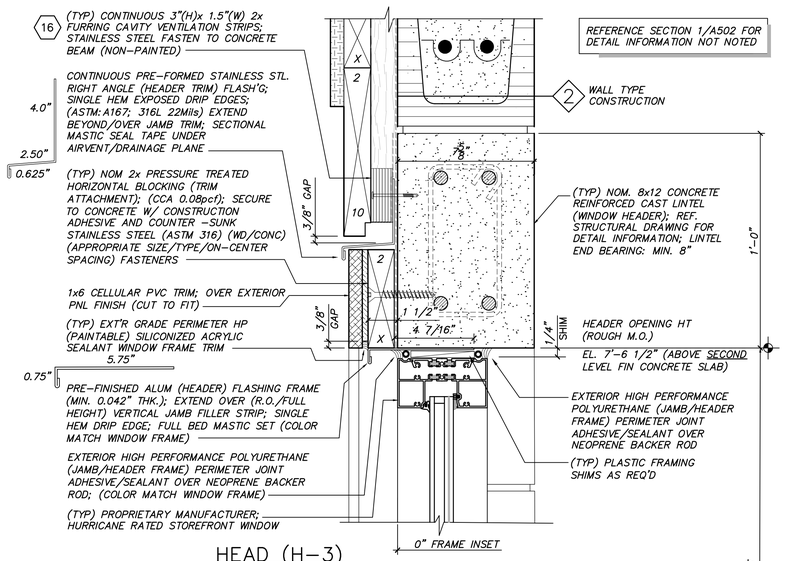
MICHAEL LEE SAIEED JR. 13723 REGISTERED ARCHITECT

date	03 MAY 24
job no.	CB/RESTRM/24
drawn by	MLS/SGH
checked by	MSAIEED
drawing no.	A601
revision no.	0

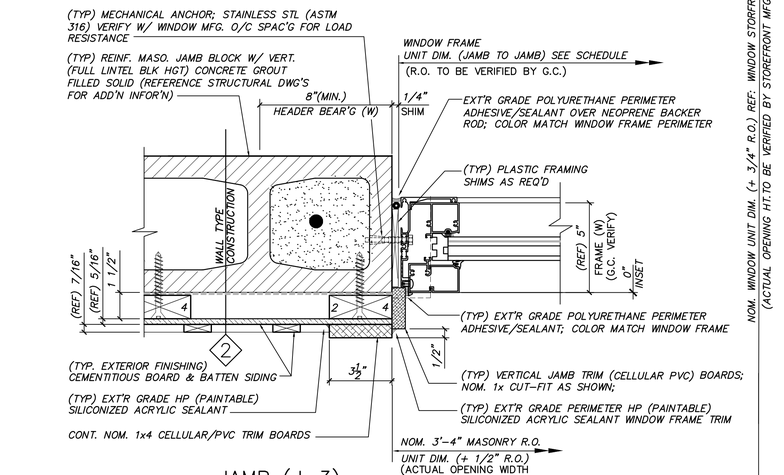
Proposed Public Restroom Facility for
Town of Carolina Beach
CAROLINA BEACH AVE, SOUTH - PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428

TYPICAL DOOR & WINDOW DETAILS

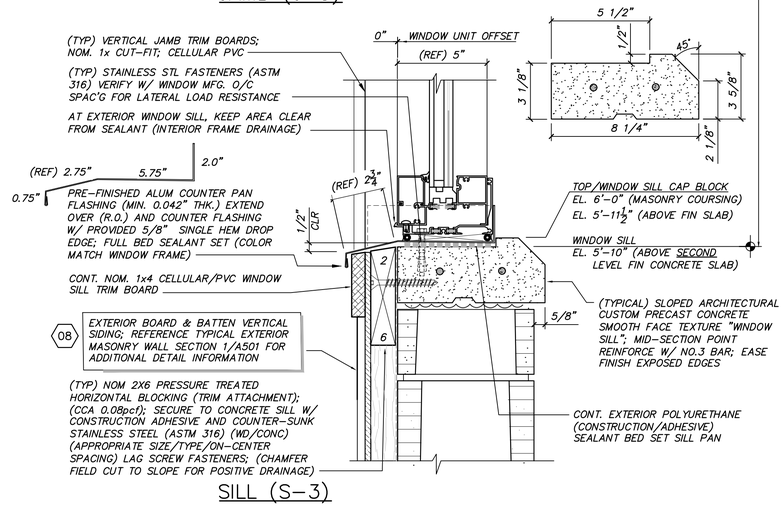
job status **Contract Documents - Issue for Construction**



HEAD (H-3)



JAMB (J-3)



SILL (S-3)

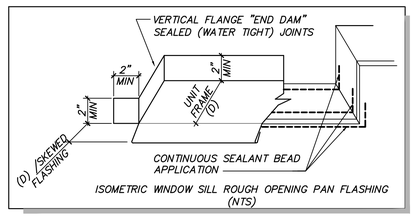
1 SECOND LEVEL WINDOW "A" DETAIL

A602 SCALE: 3" = 1'-0"

(TYP) VERTICAL/HORIZONTAL TRIM BOARDS; (NOM. 0.75") CELLULAR PVC; SHALL BE (SMOOTH SURFACE FACE TEXTURE) SECURE W/ APPROPRIATE SIZE/TYPE/LENGTH (PLAS/WD) STAINLESS STL (ASTM 316) FASTENERS (PLUG/SEAL); (PRE-PRIME/PAINTED)

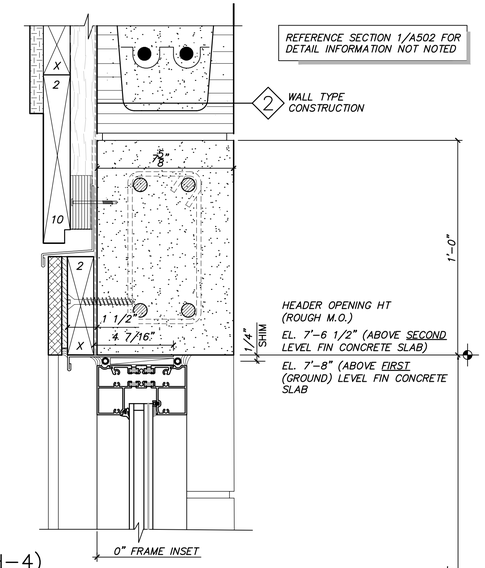
VERIFY STAINLESS STEEL (ASTM 316)FASTENERS SPAC'G W/ DOOR & STOREFRONT MFG. FOR WIND LOAD RESISTANCE; 148 MPH "RISK CATEGORY II; WIND BORNE AREA) WIND SPEED

TYPICAL WINDOW WALL FRAMING DESIGNS ARE ARCHITECTURALLY SHOWN FOR THEIR DESIGN INTENTS; IT SHALL BE THE CONTRACTOR RESPONSIBILITY TO VERIFY ALL (PROPOSED CONSTRUCTION) MASONRY AND WALL (WOOD AND METAL) STUD ROUGH OPENING DIMENSIONS W/ VENDOR'S DETAILED SHOP DRAWINGS FOR FINAL INSTALLATION



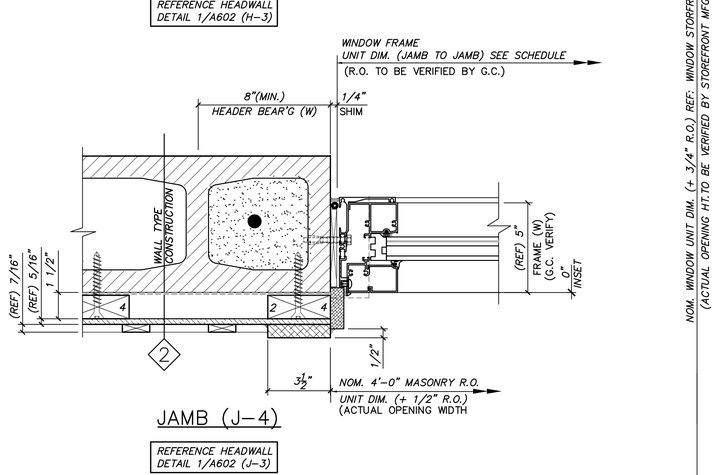
A A602 (TYP) WINDOW SILL (R.O.) PAN FLASHING

NOT TO SCALE



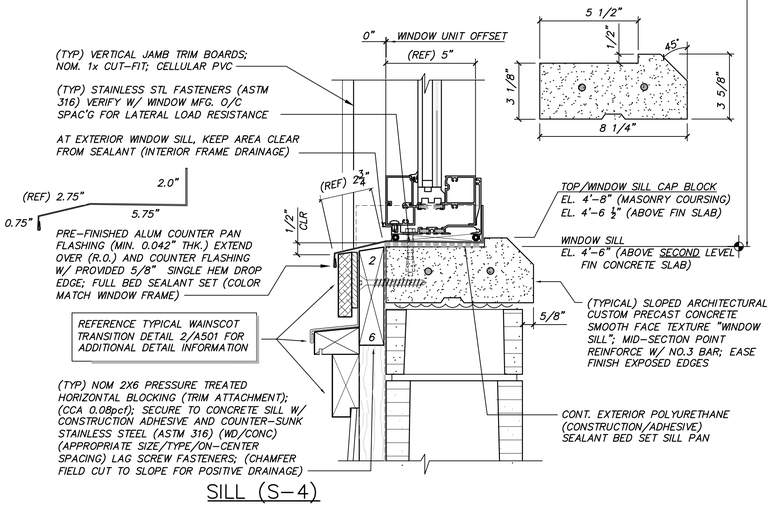
HEAD (H-4)

REFERENCE HEADWALL DETAIL 1/A602 (H-3)



JAMB (J-4)

REFERENCE HEADWALL DETAIL 1/A602 (J-3)



SILL (S-4)

2 SECOND LEVEL WINDOW "B" DETAIL

A602 SCALE: 3" = 1'-0"

no.	date	revision		
A	05/21/24	PROGRESS REVIEWS AND COMMENTS FOR APPROVAL	C	9/9/24
B	07/3/24	PROGRESS REVIEWS AND COMMENTS FINAL APPROVAL	0	9/13/24

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THIS SHEET SHOWS BASIC DRAFTING STANDARDS

TOWN OF CAROLINA BEACH NORTH CAROLINA

Design Elements
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15/2024

MICHAEL LEE SAEED JR. NC REGISTERED ARCHITECT 13772 PROFESSIONAL SEAL

Proposed Public Restroom Facility for
Town of Carolina Beach
CAROLINA BEACH AVE, SOUTH – PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428

TYPICAL WINDOW DETAILS

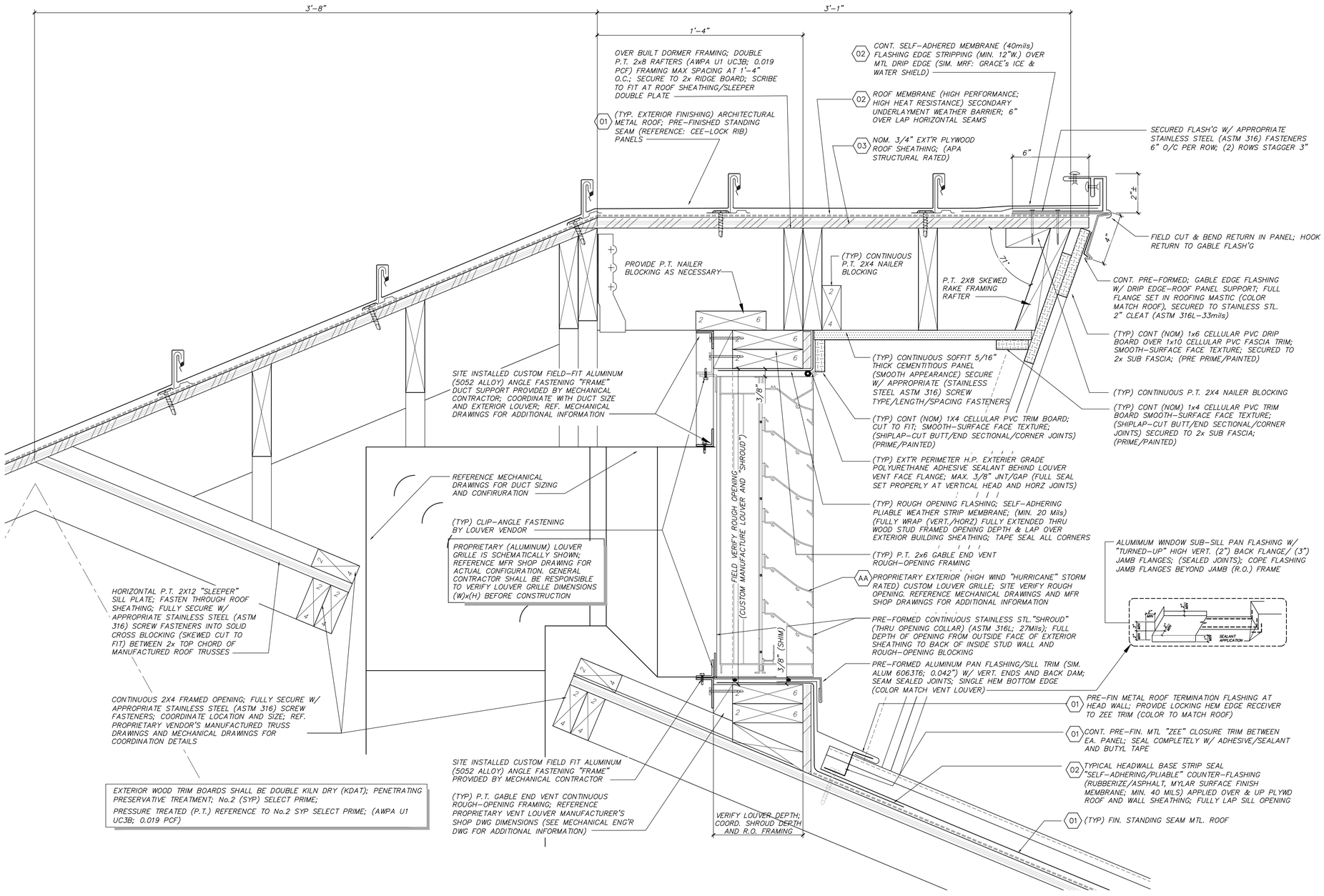
job status **Contract Documents - Issue for Construction**

date	03 MA7 24
job no.	CB/RESTRM/24
drawn by	MLS/SGH
checked by	MSAIEED
drawing no.	A602
revision no.	0

DETAIL KEYNOTES

THIS SHEET ONLY

AA CUSTOM SIZE PRE-FINISHED ALUMINUM (COLOR: BLACK) VENT-LOUVER (WIND/RAIN STORM RATED-SELF DRAINAGE- NCMC-18 401.5.1/AMCA 550 FOR WATER REJECTION AND 540 FOR WINDBORNE DEBRIS), BIRD & INSECT SCREENING; PROVIDE THRU (FULL WALL DEPTH) SURROUND INSERT/EXTERIOR BOX FLASHING; STAINLESS STEEL (ASTM 316L); REFERENCE. MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION AND DETAILS



A / A700 ROOF DORMER SECTION — EXHAUST VENT LOUVER DETAIL

SCALE: 3" = 1'-0"

no.	date	revision	
			C 9/9/24 ISSED FOR PRE-BID - NOT FOR CONSTRUCTION
A	05/21/24	PROGRESS REVIEWS AND COMMENTS FOR APPROVAL	0 9/13/24 IFC-CODE ENFORCER REVIEW AND APPROVAL FOR PERMI
B	07/3/24	PROGRESS REVIEWS AND COMMENTS FINAL APPROVAL	

TOWN OF CAROLINA BEACH NORTH CAROLINA

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09/13/2024

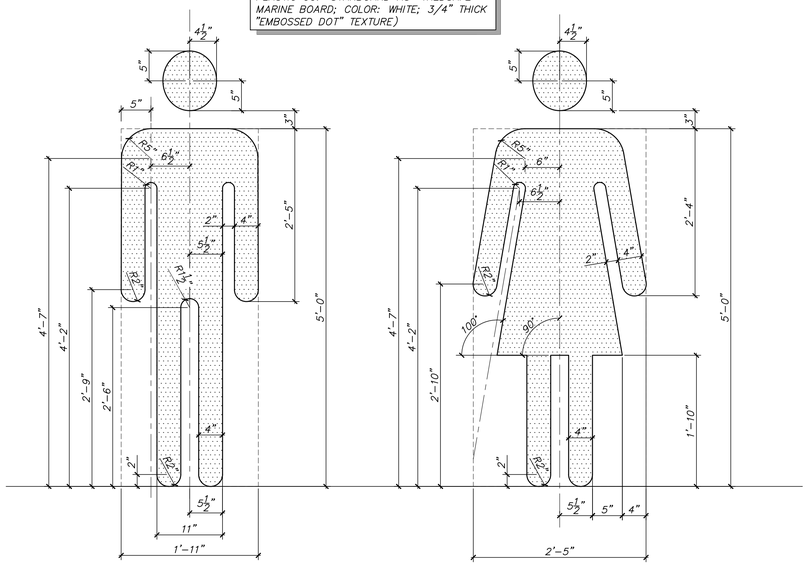
LEE SAEED JR. 30 NOVEMBER 2021 MICHAEL L. SAEED 23724 REGISTERED PROFESSIONAL ARCHITECT WILMINGTON, NORTH CAROLINA

Proposed Public Restroom Facility for
Town of Carolina Beach
CAROLINA BEACH AVE. SOUTH - PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428
ROOF DORMER EXHAUST VENT SECTION
job status **Contract Documents - Issue for Construction**

date	03 MAY 24
job no.	CB/RESTRM/24
drawn by	MLS/SGH
checked by	MSAIEED
drawing no.	A700
revision no.	0

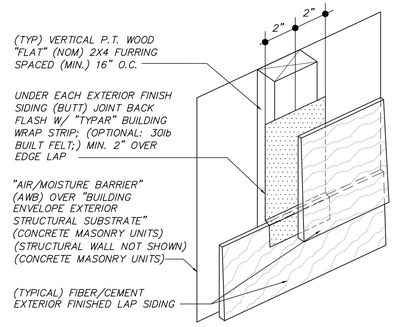
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BUILDING PICTOGRAM IDENTIFICATION: (MALE AND FEMALE) SILHOUETTE; CUSTOM DESIGN FROM HIGH DENSITY POLYETHYLENE (HDPE) PANELS: (REFERENCE MANUF: KING PLASTIC CO. "STARBOARD AS" TREDSAFE MARINE BOARD; COLOR: WHITE; 3/4" THICK "EMBOSSED DOT" TEXTURE)



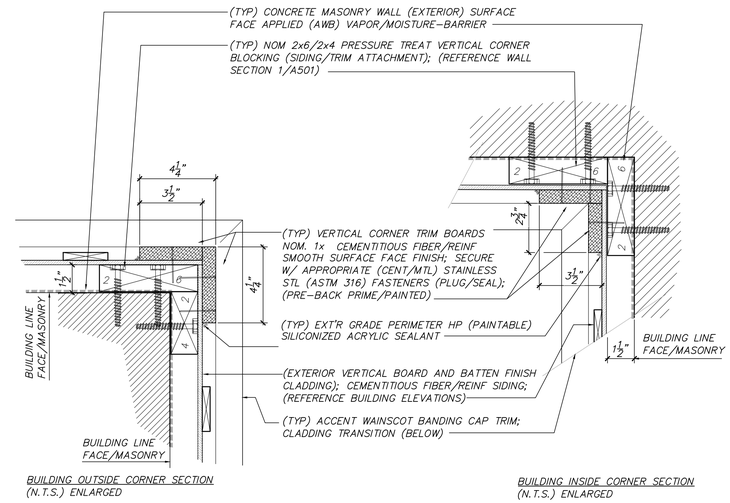
A A701 (SCHEMATIC) PICTOGRAM ELEVATION

SCALE: 1" = 1'-0"



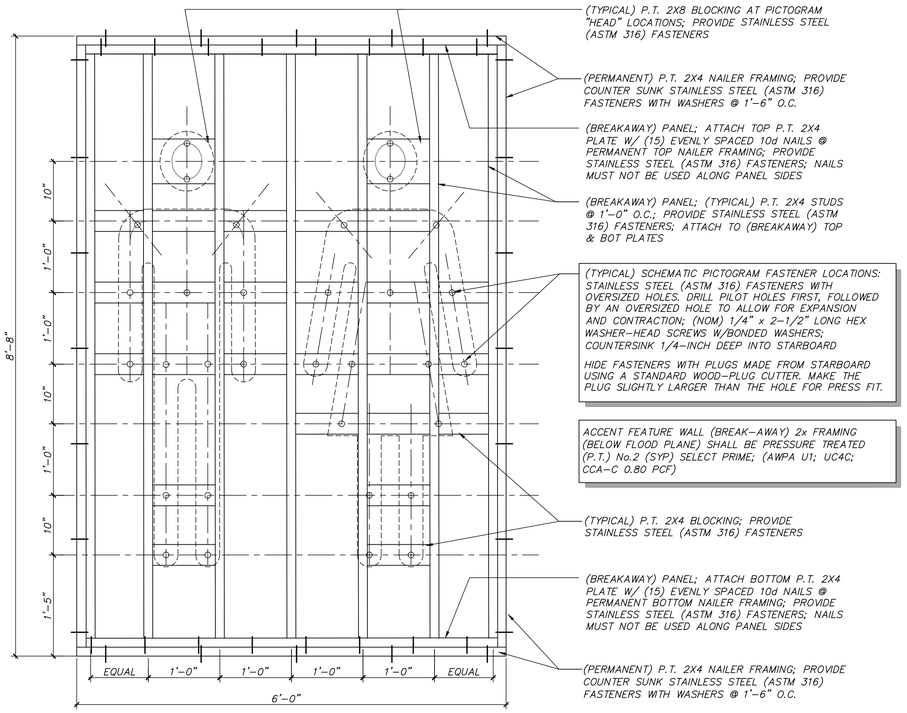
C A701 (TYPICAL) SIDING JOINT BACK-FLASHING DETAIL

SCALE: NOT TO SCALE



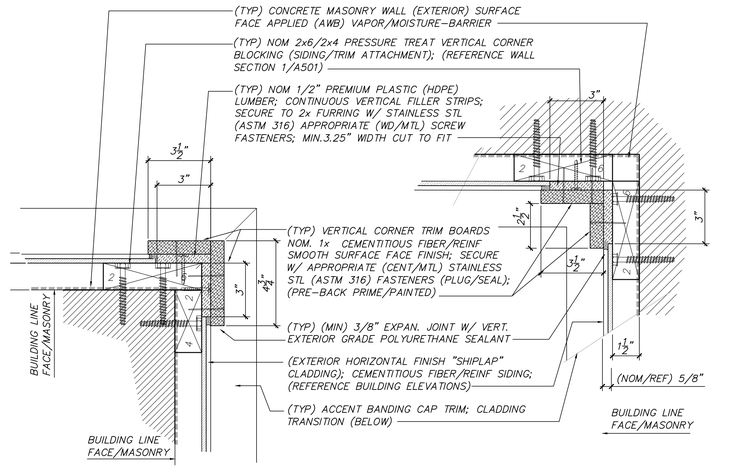
D A701 (TYPICAL) BOARD & BATTEN CORNER TRIM DETAIL

SCALE: 3" = 1'-0"



B A701 (SCHEMATIC) PICTOGRAM/BREAKAWAY WALL DETAIL

SCALE: 1" = 1'-0"



E A701 (TYPICAL) LAPPED SIDING CORNER TRIM DETAIL

SCALE: 3" = 1'-0"

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TOWN OF CAROLINA BEACH NORTH CAROLINA

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13/2024

MICHAEL LEE SAEED JR. NC ARCHITECT 13171 REGISTERED PROFESSIONAL SEAL

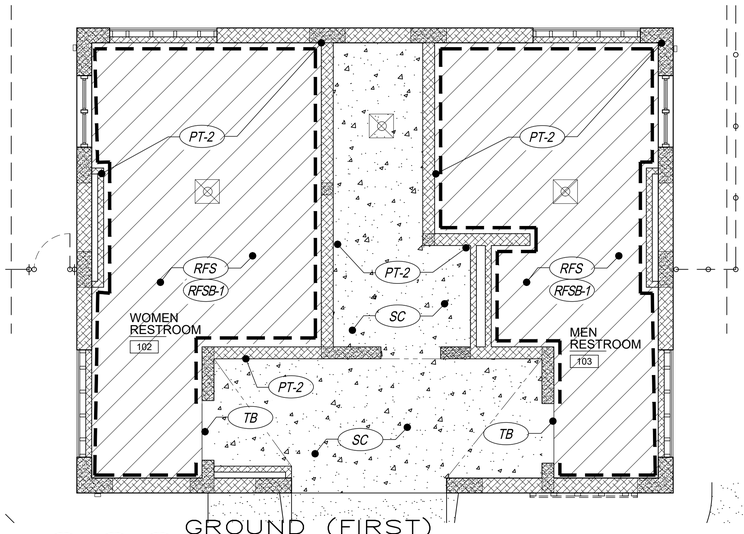
Proposed Public Restroom Facility for
Town of Carolina Beach
CAROLINA BEACH AVE. SOUTH – PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428

MISCELLANEOUS DETAILS

job status **Contract Documents - Issue for Construction**

date	03 MA7 24
job no.	CB/RESTRM/24
drawn by	MLS/SGH
checked by	MSAIEED
drawing no.	A701
revision no.	0

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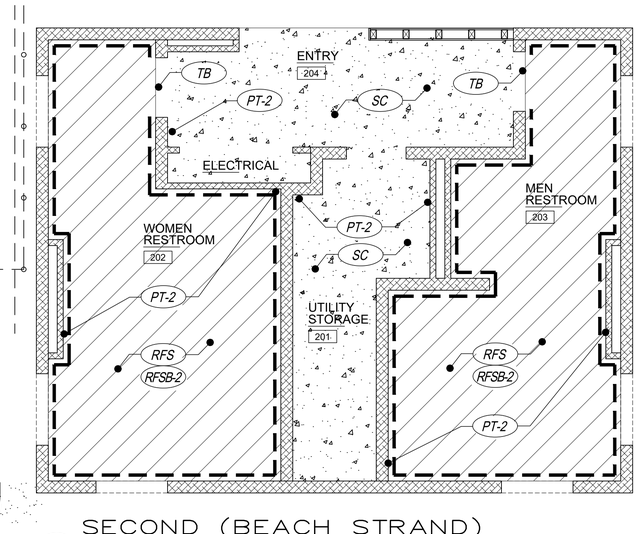


GROUND (FIRST) FINISH PLAN

1 / A800 — SCALE: 1/4" = 1'-0"

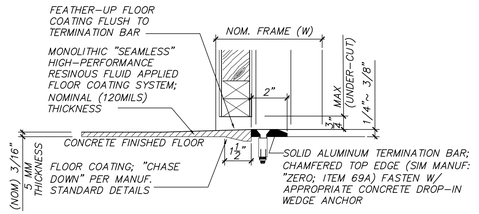
SITE NORTH

PLAN NORTH



SECOND (BEACH STRAND) FINISH PLAN

2 / A800 — SCALE: 1/4" = 1'-0"



MONOLITHIC FLOORING TERMINATION BAR "TB" EDGE DETAIL

A / A800 — SCALE: 3" = 1'-0"

ROOM FINISH SCHEDULE

NAME	FLOOR	BASE	WALLS	CEILING MATERIAL	CEILING HEIGHT	REMARKS
GROUND LEVEL ENTRY	SC	–	PT-2	PT-2-CONC	9'-8"	–
GROUND LEVEL MEN'S RESTROOM	RFS	RFS	PT-2	PT-2-CONC	9'-8"	
GROUND LEVEL UTILITY STORAGE	SC	CEM-BD	PT-2	PT-2-CONC	9'-8"	
GROUND LEVEL WOMEN'S RESTROOM	RFS	RFS	PT-2	PT-2-CONC	9'-8"	
SECOND LEVEL ENTRY	SC	CEM-BD	PT-2	PT-2-CEM	9'-5½"	
SECOND LEVEL MEN'S RESTROOM	RFS	RFS	PT-2	WD-BD	SLOPES	
SECOND LEVEL UTILITY STORAGE	SC	–	PT-2	PT-2-CEM	9'-5½"	
SECOND LEVEL ELECTRICAL CLOSET	SC	–	PT-2	PT-2-CEM	9'-5½"	
SECOND LEVEL WOMEN'S RESTROOM	RFS	RFS	PT-2	WD-BD	SLOPES	

FINISH LEGEND

KEY	ITEM	DESCRIPTION	REMARKS
FLOOR FINISH:			
RFS	RESINOUS FLOORING SYSTEM WITH BROADCAST FLAKES	MULTI-LAYER SYSTEM WITH LARGE BROADCAST FLAKES AND TOPCOAT TO ACHIEVE A "LOW-TEXTURED" FINISH	MANUF: STONHARD STONTEC "MOJAVE BEIGE LARGE FLAKE"
SC	SEALED CONCRETE COATING	REFERENCE FLOOR FINISH PAINT SPECIFICATIONS	
WALL BASE:			
RFSB-1	RESINOUS FLOORING SYSTEM WITH BROADCAST FLAKES	MULTI-LAYER SYSTEM WITH LARGE BROADCAST FLAKES AND TOPCOAT TO ACHIEVE A "LOW-TEXTURED" FINISH	MATCH FLOOR; PROVIDE 4-INCH HIGH "STANDARD" COVE BASE WITH TOP EDGE METAL COVE STRIP
RFSB-2	RESINOUS FLOORING SYSTEM WITH BROADCAST FLAKES	MULTI-LAYER SYSTEM WITH LARGE BROADCAST FLAKES AND TOPCOAT TO ACHIEVE A "LOW-TEXTURED" FINISH	MATCH FLOOR; PROVIDE (NOM) 6 1/2-INCH HIGH (MATCH MASONRY JOINT LINE) "STANDARD" COVE BASE WITH TOP EDGE METAL COVE STRIP
WALL FINISH:			
PT-2G	PAINT – GLOSS SHEEN	REFERENCE "ABBREVIATED PAINT SPECIFICATION"	INTERIOR TRIM, CONCRETE/CMU WALL; COLOR MATCH BENJAMIN MOORE OC-53 "HORIZON"
CEILING FINISH:			
WD-BD	SELECT FIR; STAINED	REFERENCE "ABBREVIATED PAINT SPECIFICATION"	MANUF: RUST-OLEUM COLOR: SELECTED BY OWNER
PT-2SG	PAINT – SEMI-GLOSS SHEEN	REFERENCE "ABBREVIATED PAINT SPECIFICATION"	CEMENTITIOUS PANEL/CONCRETE; COLOR MATCH BENJAMIN MOORE OC-53 "HORIZON"
MISCELLANEOUS:			
PCP-1	BLACK PHENOLIC CORE PANEL	BLACK PHENOLIC CORE PANELS AND PILASTERS W/ DECORATIVE SURFACE FINISH FACED "HP-PLAM" EACH SIDE.	MANUF: ASI COLOR: GRAPHITE

KEYNOTES

KEYNOTES THIS SHEET ONLY

ALL FLAME SPREAD RATINGS FOR INTERIOR FINISHES TO BE IN ACCORDANCE WITH IBC/NCBC-2018 CODE TABLE 803.11 AS FOLLOWS:
EXIT ACCESS PASSAGEWAYS: MINIMUM CLASS "B"
ROOMS AND ENCLOSED SPACES: MINIMUM CLASS "C" OR BETTER.

XX — TYPICAL FINISH IDENTIFICATION: REFERENCE FINISH SCHEDULE FOR SPECIFIC FINISH MATERIAL DENOTED

HATCH PATTERN AREAS DESIGNATES SEALED CAST IN PLACE CONCRETE; MANUFACTURER; RUST-OLEUM;

HATCH PATTERN AREAS DESIGNATES RESINOUS FLOOR FINISH

INDICATES RESINOUS FLOOR SYSTEM INTEGRAL COVE BASE

ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE
CONC	CONCRETE
CPT	CARPET
CEM	CEMENTITIOUS PANEL/SIDING
LVT	LUXURY VINYL TILE
FRP	FIBERGLASS REINFORCED PANEL
GYP BD	GYPSUM BOARD
ICC	INTEGRALLY COLORED CONCRETE
PCP	PHENOLIC CORE PANEL
PT	PAINT
RFS	RESINOUS FLOOR SYSTEM
SC	SEALED CONCRETE
STRUCT	OPEN TO STRUCTURE
U.N.O.	UNLESS NOTED OTHERWISE
VCT	VINYL COMPOSITION TILE
WD	WOOD

RESINOUS FLOOR FINISH AND INTEGRAL COVE BASE

BASIS OF DESIGN FLOOR FINISH SYSTEM (SELECTION BY OWNER) (PROVIDE 4" HIGH COVE BASE)

RFS — "RESINOUS FLOORING SYSTEM"; TROWLED IN PLACE MORTAR WITH BROADCAST FLAKE TOPPING WITH INTEGRAL COVE BASE. OVERALL SYSTEM THICKNESS: (NOMINAL) 3/16-INCH; BASIS OF DESIGN: MANUFACTURER: STONHARD; "STONTEC TRF" WITH 1/4-INCH LARGE FLAKES AND "STONSEAL CA7" TOPCOAT; LOW TEXTURE "MATTE" SHEEN. INCLUDE (MIN.) 24"x24" IN-FIELD MOCK-UP FOR APPROVAL. MANUFACTURER'S REPRESENTATIVE CONTACT INFO: Pauline.Haber@stonhard.com 854-214-0963

GENERAL SYSTEM COMPONENTS:
- PRIMER SUITABLE FOR PREPARED CONCRETE SUBSTRATE
- MORTAR BASE LAYER
- BOND COAT
- BROADCAST FLAKES
- SEALANT LAYER(S) TO ACHIEVE LOW-TEXTURE FINISH
- TERMINATE TOP OF COVE BASE; PROVIDE METAL COVE STRIP (MITERED CORNERS)
- "CHASE" EDGES OF FLOOR COATING SYSTEM "FULL DEPTH OF SYSTEM" TO LOCK EDGES

ABBREVIATED PAINT SPECIFICATION

SIM. MANUFACTURER: RUST-OLEUM EXTERIOR HIGH PERFORMANCE PAINT AND COATING SYSTEMS (REFERENCE PROPRIETARY PAINT MFR/SUPPLIER FOR DETAIL RECOMMENDATION AND SPECIFICATION) RUST-OLEUM CONTACT: ERIC MITCHELL AT EMITCHELL@RUSTOLEUM.COM

Substrate: Interior and Exterior Trim Materials: Cementitious Boards, Panel, and Trim, PVC trim and pressure treated wood.
a. Primer: R-O ROCPRIME Water-Based Hybrid 1K Epoxy Primer applied at 2-3 mils DFT. per manufacturer's TDS.
b. Intermediate Coat: R-O Modern Masters Color Fast EX Urethane applied at 2-3 mils DFT. per coat and per manufacturer's TDS.
c. Finish Coat: R-O Modern Masters Color Fast EX Urethane applied at 2-3 mils DFT. per coat and per manufacturer's TDS.
d. Color as indicated on Exterior Elevations; Interior color to be determined by owner.

Substrate: Interior and Exterior Walls: Concrete and Cementitious Panel
a. Primer: R-O ROCPRIME Water-Based Hybrid 1K Epoxy Primer applied at 2-3 mils DFT. per manufacturer's TDS.
b. Intermediate Coat: R-O Modern Masters Color Fast EX Urethane applied at 2-3 mils DFT. per coat and per manufacturer's TDS.
c. Finish Coat: R-O Modern Masters Color Fast EX Urethane applied at 2-3 mils DFT. per coat and per manufacturer's TDS.
d. Color as indicated on Exterior Elevations; Interior color to be determined by owner.

Substrate: Interior and Exterior Walls: CMU Block
a. Primer: R-O Zinsser Block Fill 2X Primer applied at 6-7 mils DFT. per manufacturer's TDS. Apply one or two coats to achieve pinhole free surface.
b. Intermediate Coat: R-O Modern Masters Color Fast EX Urethane applied at 2-3 mils DFT. per coat and per manufacturer's TDS.
c. Finish Coat: R-O Modern Masters Color Fast EX Urethane applied at 2-3 mils DFT. per coat and per manufacturer's TDS.
d. Color as indicated on Exterior Elevations; Interior color to be determined by owner.

Substrate: Exposed concrete floor
a. Finish: R-O OKON S-20 applied at 50-100 sq. ft./gal. per manufacturer's TDS.

Substrate: Wood (select fir) ceilings
a. Base Coat: R-O Wolman Finish and Preservative applied 3-4 mils DFT. per manufacturer's TDS.
b. Finish Coat: R-O Wolman Finish and Preservative applied 3-4 mils DFT. per manufacturer's TDS.
c. Color to be determined by owner.

no.	date	revision	C	9/9/24	ISSED FOR PRE-BID – NOT FOR CONSTRUCTION
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THIS SHEET SHOWS BASIC DRAFTING STANDARDS

TOWN OF CAROLINA BEACH NORTH CAROLINA

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13/2024

MICHAEL LEE SAIEED JR. NC HOLDEN BEACH

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Proposed Public Restroom Facility for

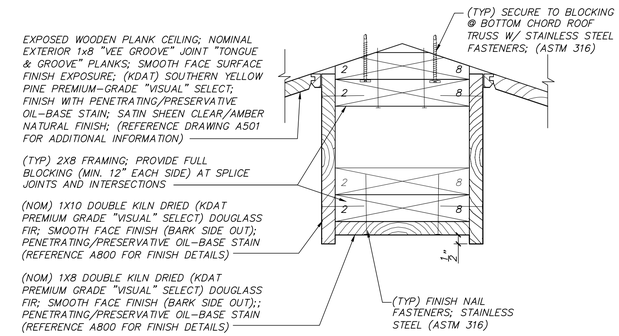
Town of Carolina Beach

CAROLINA BEACH AVE, SOUTH – PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428

FIRST AND SECOND FLOOR FINISH PLANS & SCHEDULES

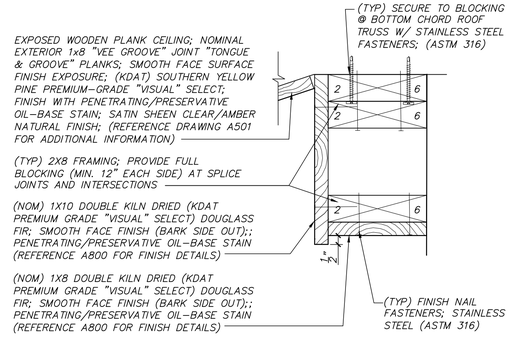
job status **Contract Documents - Issue for Construction**

date	03 MA7 24
job no.	CB/RESTRM/24
drawn by	MLS/SGH
checked by	MSAIEED
drawing no.	A800
revision no.	0



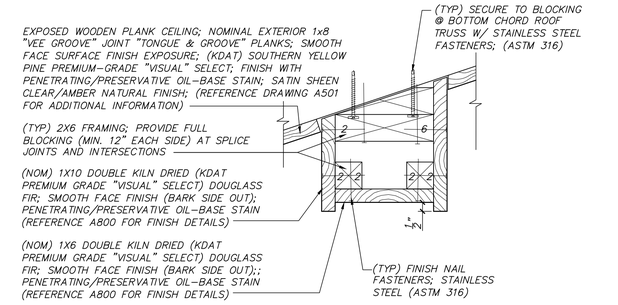
A A801 (TYPICAL) RIDGE BEAM DETAIL

A801 SCALE: 3" = 1'-0"



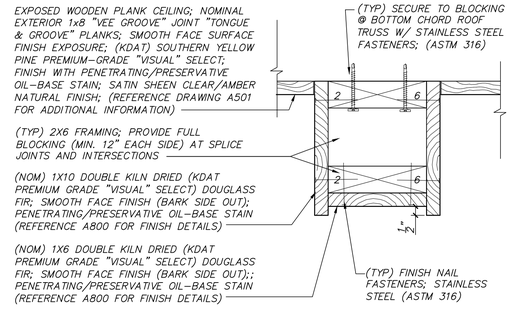
B A801 (TYPICAL) EDGE BEAM DETAIL

A801 SCALE: 3" = 1'-0"



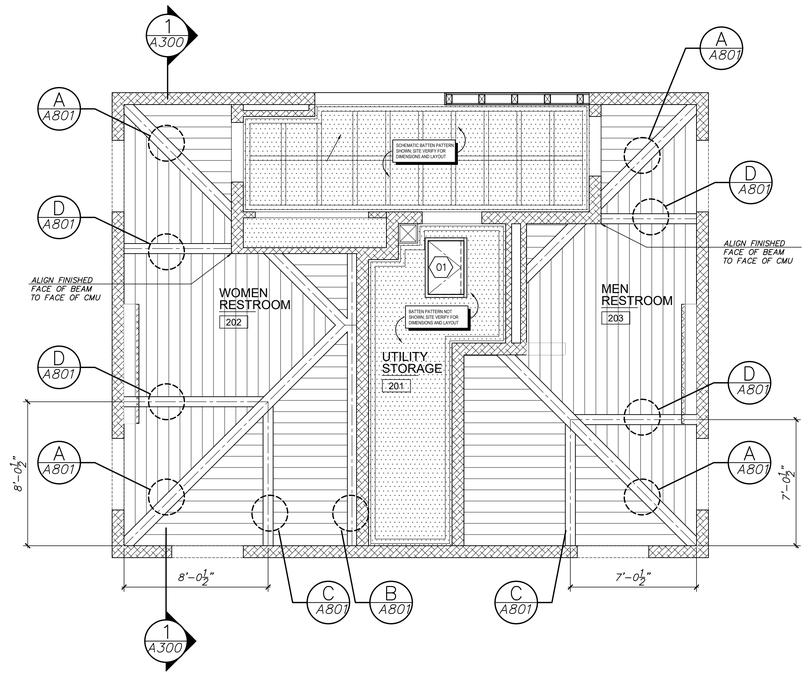
C A801 (TYPICAL) SLOPE BEAM DETAIL

A801 SCALE: 3" = 1'-0"



D A801 (TYPICAL) BEAM DETAIL

A801 SCALE: 3" = 1'-0"



1 A801 SECOND (BEACH STRAND) REFLECTED CEILING FINISH PLAN

A801 SCALE: 1/4" = 1'-0"

REFLECTED SUSPENDED CEILING NOTES

01 MECHANICAL ATTIC ACCESS; NOMINAL 24"(W) x 36"(L)

CEILING LEGEND

WALL MOUNTED LIGHT FIXTURE: COORDINATE LOCATION AND REFERENCE ELECTRICAL DRAWINGS FOR DESIGNATIONS

HATCH PATTERN AREAS DESIGNATES PAINTED CEMENTITIOUS SOFFIT BOARD-AND-BATTEN CEILING PANEL; BATTENS (EQ. SPACED MAX. 24" O.C.); PAINT MANUFACTURER; RUST-OLEUM, COLOR MATCH BENJAMIN MOORE OC-53 "HORIZON"; REFERENCE DRAWING SHEET A800 FOR PAINT DETAILS

HATCH PATTERN AREAS DESIGNATES 1x8 TONGUE-N-GROOVE FINISHED (SELECT FIR) CEILING; FINISH MANUFACTURER: RUST-OLEUM; CONFIRM COLOR SELECTION WITH BUILDING OWNER; REFERENCE DRAWING SHEET A800 FOR PAINT DETAILS

no.	date	revision	C	9/9/24	ISSED FOR PRE-BID _ NOT FOR CONSTRUCTION
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TOWN OF CAROLINA BEACH NORTH CAROLINA

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12/2024

MICHAEL LEE SAIEED JR. 13772 REGISTERED ARCHITECT NORTH CAROLINA

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Proposed **Public Restroom Facility for**

Town of Carolina Beach

CAROLINA BEACH AVE. SOUTH - PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428

SECOND FLOOR CEILING FINISH PLANS & DETAILS

job status **Contract Documents - Issue for Construction**

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job no.	CB/RESTRM/24
drawn by	MLS/SGH
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November 13, 2024 S:\Projects\2024-0126 Carolina Beach Restroom Design\Structural\Current Working Drawings\S-0.0.dwg

STRUCTURAL NOTES:

GENERAL:

1. THESE STRUCTURES HAVE BEEN DESIGNED IN ACCORDANCE WITH THE PROVISION OF THE 2018 NORTH CAROLINA STATE BUILDING CODE & ASCE/SEI 7-10. FOR SPECIAL INSPECTION REQUIREMENTS AND PROGRAM SEE THE PROJECT MANUAL.

2. DESIGN LOADS

	UNIFORM
SECOND FLOOR AND RAMP:	
DEAD LOAD:	
FRAMING:	ACTUAL
SUSPENDED:	20 PSF
LIVE LOAD:	100 PSF
ROOF LOAD:	
DEAD LOAD:	
FRAMING:	ACTUAL
SUSPENDED:	10 PSF
LIVE LOAD:	SEE TRUSS NOTES

3. DESIGN WIND LOAD (ASCE/SEI 7-10)

   1. ULTIMATE DESIGN WIND SPEED, VULT: =147 MPH
   2. RISK CATEGORY: II
   3. EXPOSURE CATEGORY: D
   4. INTERNAL PRESSURE COEFFICIENT: +0.18/-0.18 FOR MAIN STRUCTURE

4. DESIGN SEISMIC INFORMATION (ASCE/SEI 7-10)

   1. RISK CATEGORY: II
   2. SEISMIC IMPORTANCE FACTOR: IE = 1.0
   3. SPECTRAL RESPONSE ACCELERATIONS: SS = 0.16G S1 = 0.07G
   4. SOIL SITE CLASSIFICATION: E
   5. DESIGN SPECTRAL RESPONSE ACCELERATIONS: SDS = 0.256G SD1 = 0.195G
   6. SEISMIC DESIGN CATEGORY: C
   7. BASIC SEISMIC FORCE-RESISTING SYSTEM: SPECIAL REINFORCED CONCRETE SHEAR WALL
   8. SEISMIC RESPONSE COEFFICIENT: CS = 0.053
   9. RESPONSE MODIFICATION COEFFICIENT: R = 5

5. FLOOD ZONE: VE +16.00.

6. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND SHOP DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES AND ADDITIONAL ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.

7. FOR DIMENSIONS NOT SHOWN ON THE DRAWINGS, REFER TO THE ARCHITECTURAL DRAWINGS. SEE ARCHITECTURAL FOR VERIFICATION OF ALL WALL LOCATIONS AND DIMENSIONS.

8. STRUCTURAL FRAME AND MASONRY WALLS (LOAD BEARING AND NON-LOAD BEARING) SHALL BE BRACED BY CONTRACTOR AGAINST WIND, CONSTRUCTION LOADS, AND OTHER TEMP. FORCES UNTIL ERECTION IS COMPLETE.

9. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.

10. NO CHANGES IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.

11. OPENINGS 1'-4" AND LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.

12. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE AT THE TIME THE LOADS ARE IMPOSED.

13. CONTRACTOR SHALL PROVIDE ALL LAYOUT REQUIRED TO CONSTRUCT HIS WORK.

14. UNLESS OTHERWISE NOTED, FIRE PROOFING METHODS AND MATERIALS FOR STRUCTURAL MEMBERS ARE NOT SHOWN ON STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIRE RATING REQUIREMENTS, FIRE PROOFING METHODS AND MATERIALS.

15. DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS.

16. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE ON, OR ISSUE DIRECTION AS TO SAFETY PRECAUTIONS AND PROGRAMS.

17. THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE. CONTRACTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

18. FUTURE LOADS: UNLESS SPECIFICALLY NOTED, THERE ARE NO PROVISIONS MADE FOR FUTURE FLOOR, ROOFS, OR OTHER LOADS.

19. SHOP DRAWINGS AND OTHER ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR BEFORE SUBMITTAL. THE ENGINEER'S REVIEW IS TO BE FOR CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH RELEVANT CONTRACT DOCUMENTS. THE ENGINEER'S REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW, CHECK AND COORDINATE THE SHOP DRAWINGS PRIOR TO SUBMISSION. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, DIMENSIONS, ETC.

20. NO STRUCTURAL MEMBER MAY BE CUT, NOTCHES OR OTHERWISE REDUCED IN STRENGTH WITHOUT WRITTEN DIRECTION FROM THE ENGINEER OF RECORD.

FOUNDATION

1. CAROLINA BEACH RESTROOM STRUCTURE: FOUNDATION & SLAB-ON-GRADE RECOMMENDATIONS, BASED ON GEOTECHNICAL REPORT ENTITLED "GEOTECHNICAL EXPLORATION REPORT", PROJECT NO. 24060027 BY S&ME, DATED APRIL 29, 2024.

A. TIMBER PILES:	SEE PILE NOTES
B. SLAB ON GRADE	
ALLOWABLE BEARING PRESSURE:	1,500 PSF (ASSUMED)
MODULUS OF SUBGRADE	175 PCI

2. REMOVE TOPSOIL, ORGANICS, SOFT CLAY, AND OTHER UNSUITABLE MATERIALS UNDER ALL FLOOR SLABS, FOOTINGS AND 1'-0" BEYOND BUILDING WALLS. BACKFILL AS REQUIRED WITH CLEAN SELECTED FILL, COMPACTED IN 8-INCH TO 10-INCH LIFTS TO A MINIMUM OF 95 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT IN ALL LAYERS UP TO THE UPPER ONE FOOT. FILL TO BE PLACED WITHIN 12 INCHES OF THE DESIGN SUBGRADE ELEVATION IS TO BE COMPACTED TO 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT. COMPACT UPPER 8-INCH TO 12-INCH OF EXISTING SUBGRADE TO 95 PERCENT.

3. AFTER STRIPPING, DENSIFY EXPOSED SANDS BY PROOFROLLING WITH A FULLY-LOADED TANDEM-AXLED DUMP TRUCK OR SIMILAR EQUIPMENT. ANY SOFT, OR UNSUITABLE SURFACE CONDITIONS, WHICH PUMPS OR RUTS EXCESSIVELY, SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION. THESE UNSUITABLE SURFACES SHALL BE UNDERCUT & REPLACED WITH GRANULAR BACKFILL SUCH AS #57 STONE.

4. CLEAN SELECT SAND FILL SHALL MEET UNIFIED SOIL CLASSIFICATION OF SP, SP-SM OR SP-SC AND SHALL HAVE A MINIMUM MODIFIED PROCTOR DRY DENSITY OF 100 PCF.

5. CONTRACTOR SHALL NOTIFY ENGINEER FOR GEOTECHNICAL INSPECTION OF SUBGRADE PRIOR TO POURING ANY CONCRETE.

6. BEARING CAPACITY SHALL BE VERIFIED BY A REGISTERED GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE. WRITTEN REPORTS OF FINDINGS SHALL BE SUBMITTED TO THE ARCHITECT.

7. CONTRACTOR SHALL DEWATER AS NECESSARY PRIOR TO EXCAVATING. SEE GEOTECHNICAL REPORT FOR FURTHER RECOMMENDATIONS IN MAINTAINING WATER LEVEL BELOW EXCAVATION.

8. CONTRACTOR SHALL PROTECT ALL FOUNDATION EXCAVATIONS FROM DETERIORATION DUE TO EXPOSURE TO MOISTURE UNTIL FOUNDATIONS AND BACK FILLING HAVE BEEN COMPLETED.

CONCRETE

1. ALL CONCRETE DESIGNED IN ACCORDANCE TO ACI 318-14

2. CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS:

FOUNDATIONS & SLAB-ON-GRADE:	5,000 PSI NORMAL WT.

3. REINFORCING STEEL: ASTM A615, GRADE 60.

4. WELDED WIRE REINFORCEMENT: ASTM A1064 (FLAT SHEETS).

5. MINIMUM CLEAR CONCRETE COVER ON REINFORCING (PER ACI 318-14)

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3 INCHES
CONCRETE EXPOSED TO EARTH OR WEATHER:	2 INCHES (U.N.O.)
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
SLABS WALLS JOISTS:	3/4 INCHES (U.N.O)
BEAMS, COLUMNS:	1 1/2 INCHES

6. DOWELS AND CONTINUOUS REINFORCING SHALL HAVE A MINIMUM LAP AS SHOWN ON S-0.1, BUT SHALL NOT BE LESS THAN 24 INCHES.

7. PROVIDE AIR ENTRAINMENT OF 4 TO 6 PERCENT.

8. CONCRETE FINISH: FLOORS - STEEL TROWEL; WALLS - WOOD FLOAT; SEE SPECIFICATIONS.

9. CONCRETE SHALL BE WET CURED FOR 7 DAYS. USE OF A WET CURING COMPOUND SHALL BE REVIEWED AND APPROVED BY THE ENGINEER.

10. EXPANSION JOINT FILLER BOND BREAKER: SEE SPECIFICATIONS.

11. SHEET VAPOR BARRIER: SEE SPECIFICATIONS.

12. WATER SHOULD NOT BE ADDED TO CONCRETE AT THE JOB SITE BEYOND THE MIX DESIGN AMOUNT. ADDITIONAL WATER SERIOUSLY REDUCES CONCRETE STRENGTH AND INCREASES SHRINKAGE. REQUEST A "HIGH RANGE WATER REDUCER" (SUPERPLASTICIZER) FOR MORE WORKABLE CONCRETE.

13. CONTRACTOR SHALL CONFORM TO ALL APPLICABLE REQUIREMENTS OF ACI 305 "HOT WEATHER CONCRETING" AND ACI 306 "RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING".

14. UNLESS OTHERWISE NOTED, ALL DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL CONFORM TO THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES-ACI 315.

15. ALL SPLICES SHALL BE CLASS "B" TENSION LAP SPLICES UNLESS OTHERWISE NOTED. REFERENCE ACI AND SCHEDULE ON SHEET S0.01.

16. WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A1064, LATEST REVISION. FURNISH IN FLATSHEETS OR MATS. ROLLS WILL NOT BE ALLOWED.

17. WELDED WIRE REINFORCING SHALL LAP 2 FULL MESHES AND BE SECURELY WIRED AT EACH SIDE AND END.

18. REINFORCING BARS AND WELDED WIRE REINFORCEMENT SHALL BE SUPPORTED WITH STANDARD BAR CHAIRS AND SPACERS AS REQUIRED TO MAINTAIN THE CONCRETE PROTECTION SPECIFIED.

19. UNLESS OTHERWISE NOTED, CHAMFER ALL EXPOSED CONCRETE CORNERS WITH A 3/4" x 45 DEGREE CHAMFER.

20. STEEL EMBEDMENTS SHOWN SHALL BE A36 STEEL AND SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123.

21. REFER TO DRAWINGS OF OTHER TRADES AND VENDOR DRAWINGS FOR PENETRATIONS IN SLABS REQUIRING SLEEVES, EMBEDMENTS, AND RECESSED ITEMS NOT SHOWN.

22. CONTRACTOR SHALL VERIFY ALL SIZES AND LOCATIONS OF ALL MECHANICAL AND ELECTRICAL OPENINGS AND EQUIPMENT PADS WITH MECHANICAL AND ELECTRICAL EQUIPMENT DETAILS AND SHOP DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL OPENINGS AND SLEEVES FOR PROPER DISTRIBUTION FOR ALL UTILITY LINES THROUGHOUT THE BUILDING.

23. UNLESS NOTED OTHERWISE, SLABS SHALL BE FINISHED TO THE TOLERANCES IN ACCORDANCE WITH ASTM E1155 AS SHOWN IN THE SPECIFICATIONS.

24. ALL EMBEDDED STEEL SHALL CONFORM TO ASTM A36.

25. ADHESIVE ANCHORING SYSTEM:
   A. MASONRY (HOLLOW): ADHESIVE ANCHORS INTO MASONRY SHALL BE THE HILTI HIT HY-70 INJECTION SYSTEM OR APPROVED EQUIVALENT USING GALVANIZED HILTI HAS RODS OR CARBON STEEL GALVANIZED THREADED RODS (ASTM F1554, 55 KSI) WITH SCREENS.
   B. CONCRETE & SOLID GROUTED MASONRY: ADHESIVE ANCHORS INTO CONCRETE SHALL BE THE HILTI HIT-HY-200 OR HILTI HIT-RE500 V3 INJECTABLE ADHESIVE ANCHORING SYSTEM OR APPROVED EQUIVALENT USING GALVANIZED HILTI HAS RODS OR CARBON STEEL GALVANIZED THREADED RODS (ASTM F1554, 55 KSI).
   C. ALL ADHESIVE ANCHORS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

26. PROVIDE 2 - #4 BARS X 3'-0" LONG DIAGONAL IN THE TOP FACE OF SLAB ON GRADE AT ALL RE-ENTRANT CORNERS. PLACE 1" CLEAR OF CORNER.

27. EXTEND REINFORCING BARS PAST RE-ENTRANT CORNERS A MINIMUM OF TENSION DEVELOPMENT LENGTH (LD).

28. PROVIDE 2- #4 BARS IN TOP OF WALL FOOTINGS SUPPORTING MASONRY WALLS WHERE OPENINGS OF DOORS OCCUR. EXTEND BARS 2'-0" BEYOND EDGE OF OPENINGS.

29. SAW CUT ALL SLABS ON GRADE AS SOON AS POSSIBLE AFTER FINISHING OPERATIONS HAVE BEEN COMPLETED WITHOUT DISLODGING AGGREGATES. CONSTRUCTION JOINTS MAY BE SUBSTITUTED FOR SAW CUT JOINTS.

30. LOCALLY DEPRESS BOTTOM OF FOOTINGS AS REQUIRED AT ANCHOR BOLTS TO PROVIDE 3 INCH MINIMUM COVER TO BOTTOM OF ANCHOR BOLTS.

31. REFER TO ELECTRICAL DRAWINGS FOR GROUNDING DETAILS.

CONCRETE MASONRY NOTES:

1. CMU CONSTRUCTION SHALL BE COORDINATED WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND SPECIFICATIONS.

2. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90.

3. ALL MASONRY MATERIALS, CONSTRUCTION, INSPECTION, AND TESTING SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE, BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530 / ASCE 5 / TMS 402-16) AND SPECIFICATION FOR MASONRY STRUCTURES (ACI 530.1/ASCE 6/TMS 602-16).

4. MASONRY WALLS ARE DESIGNED FOR A MINIMUM COMPRESSIVE STRENGTH F'm OF 2000 PSI AT 28 DAYS USING TYPE "S" MORTAR. MASONRY CEMENT SHALL NOT BE USED. ETERMINATION OF F'm, INSPECTION AND TESTING SHALL CONFORM TO THE REQUIREMENTS OF ACI 530/ ASCE 5 AND ACI 530.1/ ASCE 6), LASTEST EDITION.

5. REINFORCING BARS SHALL BE DEFORMED TYPE AND SHALL CONFORM TO ASTM A615. BARS SHALL BE SPLICED FOR A MINIMUM LENGTH OF 50 BAR DIAMETERS UNO BY SCHEDULE.

6. GROUT FOR REINFORCED MASONRY SHALL ACHIEVE A MINIMUM COMPRESSIVE STREGTH OF 3000 PSI AT 28 DAYS. GROUT SHALL BE PLACED IN LIFTS NOT TO EXCEED 5'-0".

7. MASONRY SHALL BE LAID IN RUNNING BOND AND SHALL HAVE SLIGHTLY CONCAVE TOOLED JOINTS, UNO.

8. ALL BLOCK LENTELS SHALL HAVE A MINIMUM BEARING OF 8 INCHES ON SOLID MASONRY OR GROUTED CONCRETE BLOCK AT EACH END.

9. UNLESS NOTED OTHERWISE PROVIDE MASONRY LINTELS PER LINTEL SCHEDULE FOR ALL MASONRY OPENINGS AND AS SHOWN ON DRAWINGS.

10. EXTEND LINTEL/BARS A MINIMUM OF 24" PAST CLEAR MASONRY OPENINGS.

11. PIPE SLEEVES, MISCELLANEOUS OPENINGS, ETC., NOT SHOWN ON THE ARCHITECTURAL DRAWINS SHALL BE SIZED AND LOCATED AS NOTED ON DRAWINGS BY OTHER DISCIPLINES.

12. FULLY GROUT ALL CELLS CONTAINING VERTICAL REINFORCING OTHER CELLS SHALL BE GROUTED AS NOTED. PROVIDE CLEANOUTS AT BOTTOM OF WALL TO ENSURE CELLS ARE FULLY GROUTED FOR CELLS WITH REINFORCED BARS.

13. BOND BEAM AND HORIZONTAL WALL REINFORCING SHALL BE CONTINUOUS AT CORNERS. PROVIDE CORNER REINFORCEMENT TO LAP WITH TYPICAL REINFORCEMENT.

14. HORIZONTAL REINFORCING SHALL BE ANCHORED AROUND VERTICAL REINFORCEMENT WITH STANDARD 180 DEGREE /HOOK.

15. ALL VERTICAL WALL REINFORCING SHALL BE PLACED USING VERTICAL BAR POSITIONERS. LOCATE POSITIONERS AT TOP OF BOTTOM COURSE, COURSE BELOW TOP OF WALL, AND SPACE AT 48" MAXIMUM IN BETWEEN.

16. CONTRACTOR SHALL COORDINATE VERTICAL BAR PLACEMENT WITH DOWELS PLACED INTO COLUMNS.

17. ALL REINFORCED CELLS, CAVITIES, BOND BEAMS, AND LINTEL BEAMS SHALL BE FULLY GROUTED CELLS.

18. MINIMUM HORIZONTAL WALL REINFORCING SHALL CONSIST OF GALVANIZED 9 GAGE TRUSS TYPE JOINT REINFORCING. JOINT REINFORCING SHALL BE SPACED AT 16 INCHES ON CENTER VERTICALLY.

19. HORIZONTAL MASONRY REINFORCING, ASTM A4951:
   A. WIRE SIZE FOR SIDE RODS: 3/16" DIAMETER
   B. WIRE SIZE FOR CROSS RODS: 9 GA
   C. SPACING OF CROSS RODS NOT MORE THAN 16" ON CENTER.
   D. PROVIDE BUTT-WELDED, LADDER-BOX REINFORCING.
   E. HOT-DIPPED GALVANIZED STEEL.

STRUCTURAL ABBREVIATIONS:

@	AT
>	GREATER THAN
<	LESS THAN
=	EQUALS
+/-	PLUS OR MINUS
AB	ANCHOR BOLT
ADDL	ADDITIONAL
ALT	ALTERNATE
ALUM	ALUMINUM
APPD	APPROVED
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
BF	BOTTOM FACE
BLDG	BUILDING
BM	BEAM
B.O.	BOTTOM OF
BOS	BOTTOM OF STEEL
BOSD	BOTTOM OF STEEL DECK
BOT	BOTTOM
BP	BASE PLATE
BRCG	BRACING
BRDG	BRIDGING
BRG	BEARING
C TO C	CENTER TO CENTER
CG	CENTER OF GRAVITY
CIP	CAST-IN-PLACE
CTLJ	CONTROL / CONTRACTION JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
C.O.	CONTRACTING OFFICER
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CTR	CENTER
D	DEPTH
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DL	DEAD LOAD
DN	DOWN
DWG	DRAWING
DWL	DOWEL
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
EMBED	EMBEDMENT
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EQ	EQUAL
EQL SP	EQUALLY SPACED
EQUIP	EQUIPMENT
EW	EACH WAY
EXIST	EXISTING
EXT	EXTERIOR
FD	FLOOR DRAIN
FDN	FOUNDATION
FF	FINISHED FLOOR
FG	FINISHED GRADE
FL	FLOOR
FLG	FLANGE
FS	FAR SIDE
FT	FEET
FTG	FOOTING
GA	GAGE OR GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GDRL	GUARDRAIL
GR	GRADE
GRTG	GRATING
HAS	HEADED ANCHOR STUD
HDRL	HANDRAIL
HDG	HOT DIPPED GALVANIZED
HK	HOOK
HORIZ	HORIZONTAL
HP	HIGH POINT
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
I.D.	INSIDE DIAMETER
I.F.	INSIDE FACE
IN	INCH
INFO	INFORMATION
INT	INTERIOR
JST	JOIST
JT	JOINT
K	KIPS
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
L	LENGTH
LBS	POUNDS
LF	LINEAR FEET
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LNTL	LINTEL
LONG	LONGITUDINAL
LP	LOW POINT
LWT	LIGHTWEIGHT
MAS	MASONRY
MAX	MAXIMUM
MB	MACHINE BOLTS
MBW	CMU BREAKAWAY WALL
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
mm	MILLIMETER(S)
MTL	METAL
MWFRS	MAIN WIND FORCE RESISTING SYSTEM
N/A	NOT APPLICABLE
NO.	NUMBER
NS	NEAR SIDE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
O.F.	OUTSIDE FACE
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OSL	OUTSTANDING LEG
PAF	POWDER ACTUATED FASTENER
PC	PRECAST
PCF	POUNDS PER CUBIC FOOT
PJF	PREMOLDED JOINT FILLER
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PROJ	PROJECTION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
QTY	QUANTITY
R	RISER
RAD	RADIUS
RC	REINFORCED CONCRETE
RD	ROOF DRAIN
RDAA	REBAR DOWEL ADHESIVE ANCHOR
RECT	RECTANGULAR
REF	REFER TO
REINF	REINFORCEMENT
REQD	REQUIRED
SC	SLIP-CRITCAL
SCHED	SCHEDULE
SECT	SECTION
SHT	SHEET SIMILAR
SIM	SLAB ON GRADE
SOG	SPACING
SPA	SPECIFICATION
SPEC	SQUARE STANDARD
SQ STD	STRINGER
STGR	STIFFENER
STIF	STIRRUP
STIR	STEEL
STL	STRUCTURAL
STRUCT	SYMMETRICAL
SYM	STAINLESS STEEL
SS	TREAD
T	TOP AND BOTTOM
TBW	TIMBER BREAKAWAY WALL
TAB	TEMPERATURE
TEMP	TOP FACE
TF	THICKNESS
THK	TOP OF
T.O.	TOP OF CONCRETE
TOC	TOP OF FOOTING
TOF	TOP OF STEEL
TOS	TOP OF WALL
TOW	TRANSVERSE
TRANS	TYPICAL
TYP	UNLESS NOTES
UNO	OTHERWISE
VERT	VERTICAL
W/	WITH
W/O	WITHOUT
WL	WIND LOAD
WP	WORK POINT
WT	WEIGHT
WWF	WELDED WIRE FABRIC



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PROPOSED PUBLIC WORKS RESTROOM FACILITY FOR TOWN OF CAROLINA BEACH

STRUCTURAL NOTES & ABBREVIATIONS



JOB NO:	766.002
DATE:	11/11/2024

S0.0

ISSUED FOR CONSTRUCTION

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REINFORCING STEEL:

1. ALL REINFORCING STEEL SHALL BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH THE FOLLOWING, UNLESS OTHERWISE SPECIFIED:

   ACI SP-66; ACI DETAILING MANUAL - 2004
   CRSI MSP-1; MANUAL OF STANDARD PRACTICE, 28th EDITION, 2009

2. TYPICAL REINFORCING STEEL:

   DEFORMED BARS (NON-WELDABLE) ----------ASTM A615, GRADE 60
   DEFORMED BARS (WELDABLE) ----------ASTM A706, GRADE 60

3. ALL REINFORCED BAR HOOKS INDICATED ON THE DRAWINGS SHALL BE ACI STANDARD HOOKS CONFORMING TO THE BEND DIMENSION REQUIREMENTS OF ACI 318, UNESS SPECIFICALLY NOTED OTHERWISE.

4. REINFORCING BARS SHALL BE COLD BENT. BARS EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT, EXCEPT WHEN SPECIFICALLY INDICATED ON THE DRAWINGS.

5. THE CONTRACTOR SHALL NOT CUT REINFORCEMENT UNLESS INDICATED BY SECTION OR DETAIL. AT LOCATIONS OF CONFLICT, SPREAD THE REINFORCEMENT TO ACCOMMODATE PLACEMENT. ADD ADDITIONAL BARS IF NECESSARY TO MAINTAIN SPACING REQUIREMENTS.

6. ALL WELDED REINFORCING SHALL BE IN ACCORDANCE WITH AWS D1.4. TACK WELDING IS NOT PERMITTED.

7. #11 AND SMALLER BARS MAY BE SPLICED USING MECHANICAL CONNECTIONS OR CONTACT LAP SPLICES. BAR LAPS SHALL BE SECURELY WIRED TOGETHER.

8. TENSION DEVELOPMENT AND REINFORCING BAR LAP SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLES, UNLESS NOTED OTHERWISE. PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT CORNERS AND INTERSECTIONS OF FOOTINGS AND WALLS. PROVIDE CONTACT LAP SPLICES.

REBAR LAP SCHEDULE

f 'c = 5,000 PSI (GRADE 60 UNCOATED BARS)				
	TENSION DEVELOPMENT		CLASS "B" LAP SPLICE	
BAR SIZE	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3	17	13	22	17
#4	22	17	29	22
#5	28	22	36	28
#6	33	26	43	33
#7	49	3	63	49
#8	55	43	72	55
#9	63	48	81	63
#10	70	54	91	70
	ALL LENGTHS ARE IN INCHES			

NOTES:
A. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW.
B. REINFORCING BAR LENGTHS ARE BASED ON NORMAL-WEIGHT CONCRETE. REFER TO TENSION DEVELOPMENT VALUES FOR CLASS "A" LAP SPLICE LENGTHS.
C. WHEN REINFORCING BAR SPACING IS LESS THAN 2 db FOR BEAMS AND COLUMNS OR 3 db FOR ALL OTHER CONCRETE ELEMENTS, LENGTHS SHALL BE MULTIPLIED BY A FACTOR OF 1.5. (db = REINFORCING BAR DIAMETER).

WOOD TRUSSES:

1. FRAMING LUMBER SHALL BE MIXED SOUTHERN PINE, NO. 1 GRADE.

2. ALL TRUSS JOINT CONNECTIONS SHALL BE MADE USING FLEXIBLE CONNECTIONS OF SHEAR PLATES, AND IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE.

3. ALL WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE FOR THE FOLLOWING LOADS AS NOTED.

   ROOF
   LIVE LOAD..... 20 PSF
   TOP CHORD DEAD LOAD..... 15 PSF
   BOTTOM CHORD DEAD LOAD ..... 10 PSF
   SNOW DRIFT LOAD ..... PER ASCE 7-10

4. SEE PLANS AND APPROPRIATE DETAILS FOR TRUSSES SUPPORTING ADDITIONAL LOADS.

5. DEAD LOADS INDICATED ARE IN ADDITION TO THE WEIGHT OF THE TRUSSES.

6. MAXIMUM DEFLECTION OF ROOF TRUSSES SHALL BE L/240 FOR DL+LL AND L/360 FOR LL.

7. TRUSSES SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TENNESEE AND EMPLOYED FULL TIME BY THE TRUSS MANUFACTURER. SUBMIT SEALED CALCULATIONS AND SHOP DRAWINGS FOR REVIEW PRIOR TO TRUSS FABRICATION. SHOP DRAWINGS SHALL INDICATE ALL BRACING REQUIRED FOR ERECTION AND SHALL SHOW PERMANENT BRACING.

8. PROVIDE SIMPSON STRONG-TIE CONNECTIONS OR APPROVED EQUIVALENT. SHOW ALL CONNECTION MATERIAL ON SHOP DRAWINGS. DESIGN OF TRUSS CONNECTIONS SHALL BE BY TRUSS MANUFACTURER.

9. BOLT HOLES SHALL BE CAREFULLY CENTERED AND DRILLED NOT MORE THAT 1/16" LARGER THAT THE BOLT DIAMETER. BOLTED CONNECTIONS SHALL BE SNUG TIGHT BUT AVOID CRUSHING WOOD UNDER WASHERS.

10. WOOD TRUSSES ALONG A VERTICAL PLANE OF THE BUILDING SHALL BE CONTINUOUS. TRUSSES MAY BE SPLICED FOR SHIPPING PURPOSES AND CONNECTED IN THE FIELD WITH METAL CONNECTOR PLATES.

11. SPECIAL LOADS FROM MECHANICAL/PLUMBING OR OTHER EQUIPMENT HAVE NOT BEEN CONSIDERED AND SHALL BE COORDINATED BY THE TRUSS DESIGNER. TRUSSES SUPPORTING THESE SPECIAL LOADS SHALL BE DESIGNED FOR THESE LOADS IN ADDITION TO THE TYPICAL UNIFORM LOADS.

12. CONCENTRATED LOADS SHALL BE SUPPORTED AT PANEL POINTS ONLY.

13. MINIMUM TRUSS CHORDS SIZE SHALL BE 2x4.

14. ALL HARDWARE REQUIRED FOR TRUSS-TO-TRUSS CONNECTIONS SHALL BE DESIGNED AND SPECIFIED BY THE REGISTERED SPECIALTY TRUSS DESIGN ENGINEER AND SUBMITTED FOR REVIEW BY THE STRUCTURAL ENGINEER OF RECORD.

15. GENERAL CONTRACTOR SHALL NOT CUT OR ALTER ANY TRUSS MEMBER.

16. PRE-ENGINEERED WOOD TRUSSES SHALL BE BRACED IN ACCORDANCE WITH TRUSS PLATE INSTITUTE'S "HANDLING, INSTALLING AND BRACING METAL PLATE CONNECTED WOOD TRUSSES, HIB-91".

17. ALL WOOD IN CONTACT WITH CONCRETE, OR MASONRY, OR SOIL, EXPOSED TO WEATHER, OR AT OTHER LOCATIONS AS SHOWN ON STRUCTURAL DRAWINGS, SHALL BE PROTECTED OR PRESSURE TREATED IN ACCORDANCE WITH AWPA REQUIREMENTS. PRESSURE TREATMENT APPROPRIATE FOR LUMBER IN CONTACT WITH SOIL SHALL BE PROVIDED WHERE APPLICABLE.

18. WALL STUDS SHALL BE CAPPED WITH A DOUBLE PLATE, INSTALLED TO PROVIDE OVERLAPPING AT CORNERS AND INTERSECTIONS WITH BEARING PARTITIONS.

19. ROOF SHEATHING ARE DESIGNED AS DIAPHRAGMS AND SHALL COMPLY WITH 2018 INTERNATIONAL BUILDING CODE. UNLESS SHOWN OTHERWISE SPAN RATED PANELS SHALL BE FASTENED TO NOMINAL 2X SOUTHERN PINE FRAMING SPACED UP TO 24" 0C IN ACCORDANCE WITH THE FOLLOWING:

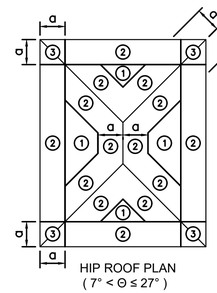
   PANELS UP TO ½" THICK: 8d NAILS AT 6" OC ALONG SUPPORTED PANEL EDGE, 6" OC ELSEWHERE.
   PANELS UP TO ⅝" THICK: 10d NAILS AT 6" OC ALONG SUPPORTED PANEL EDGE, 6" OC ELSEWHERE.
   PANELS UP TO ¾" THICK: 12d NAILS AT 6" OC ALONG SUPPORTED PANEL EDGE, 6" OC ELSEWHERE.

   ROOF AND FLOOR SHEATHING SHALL BE INSTALLED LONG DIMENSION PERPENDICULAR TO FRAMING AND END JOINTS SHALL BE STAGGERED.

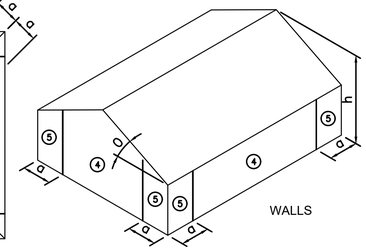
20. NAILING, JOIST BLOCKING, AND RAFTER BLOCKING SHALL MEET THE MINIMUM REQUIREMENTS OF 2018 INTERNATIONAL BUILDING CODE UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED ON THE PLANS.

TIMBER PILES:

1. PILES SHALL BE TREATED TIMBER CONFORMING TO ASTM D-25, SOUTHERN YELLOW PINE OR DOUGLAS FIR. CLEANED, PEELED, AND IN ONE PIECE.
2. MIN. TIP DIAMETER SHALL BE 8" OR BASE CIRCUMFERENCE 25".
3. PRESSURE TREAT PER AWPA STANDARDS AS SPECIFIED FOR FOUNDATION PILES, SALT WATER USE SEE SPECS.
4. AUGER AS NECESSARY TO REACH MINIMUM PENETRATION PRIOR TO PILE INSTALLATION.
5. DRIVE PILES TO 10 TON ALLOWABLE (DESIGN) AXIAL COMPRESSIVE RESISTANCE, ALLOWABLE UPLIFT RESISTANCE OF 5 TONS. MIN. PENETRATION IS 35 FEET.
6. HORIZONTAL CAPACITY SHALL BE 1 TON USING A 1/4" HORIZONTAL DEFLECTION.
7. PILES SHALL BE IN ONE SINGLE SECTION WITH SPLICES INSTALLED ONLY AS REQUIRED TO MEET DRIVING CRITERIA.
8. MARK EACH PILE SECTION WITH HORIZONTAL MARKINGS AT 12 INCH INTERVALS & THE DISTANCE FROM THE PILE TIP IN 60 INCH INTERVALS.
9. TIMBER PILES SHOULD BE DRIVEN WITH AN IMPACT HAMMER DELIVERING AT LEAST 5,000 FOOT POUNDS OF DRIVING ENERGY PER STROKE AND NOT MORE THAN 20,000 FOOT-POUNDS OF ENERGY PER STROKE. RAM WEIGHT SHOULD NOT EXCEED 5,000 POUNDS, AND A MINIUM RAM WEIGHT OF 2,000 POUNDS IS RECOMMENDED.
10. ALIGNMENT: MAINTAIN 1 INCH IN 10 FEET FROM VERTICAL OR A MAXIMUM OF 4 INCHES MEASURED WHEN PILE IS ABOVE GRADE IN LEADS.
11. LOCATIONS: MAINTAIN MAXIMUM 3 INCHES FROM INDICATED LOCATION.
12. OWNER SHALL EMPLOY AN INDEPENDENT TESTING AGENCY (ITA) TO SET PILE DRIVING CRITERIA AFTER RECEIPT OF PROPOSED HAMMER FROM THE CONTRACTOR AND TO PERFORM FIELD QUALITY CONTROL TESTING FOR PILE DRIVING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATING THE WORK WITH THE ITA.
13. A MINIMUM OF (3) OVERLENGTH TEST PILES SHALL BE DRIVEN PRIOR TO ORDERING PRODUCTION PILES, TYPICALLY AT LEAST 10 FEET LONGER. A REPRESENTATIVE OF THE OWNER'S ITA SHALL WITNESS THE TEST PILE DRIVING. THE DRIVING CRITERIA FOR THE PRODUCTION PILES SHALL BE ESTABLISHED BY THE ITA BASED ON THE TEST PILES AND THE PDA RESULTS.
14. PILE CAPCITIES SHALL BE VERIFIED BY AT LEAST 3 PILE DRIVING ANALYZER (PDA) TESTS PERFORMED BY THE OWNER'S ITA AT TEST PILE LOCATIONS.



HIP ROOF PLAN
(7° < Θ ≤ 27°)



WALLS

①	+24.9,	−50.8 PSF	OVERHANG: ②	−116.3 PSF
②	+24.9,	−71.5 PSF	OVERHANG: ③	−116.3 PSF
③	+24.9,	−71.5 PSF		

WIND LOADING: COMPONENTS & CLADDING
(NEGATIVE INDICATES PRESSURE ACTING AWAY FROM THE BUILDING SURFACE)

0 ## ##
SCALE: FEET

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PROPOSED PUBLIC WORKS RESTROOM FACILITY FOR TOWN OF CAROLINA BEACH

STRUCTURAL NOTES

NORTH CAROLINA PROFESSIONAL SEAL 31432 ENGINEER MARK F. WEISS
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11/25/2024

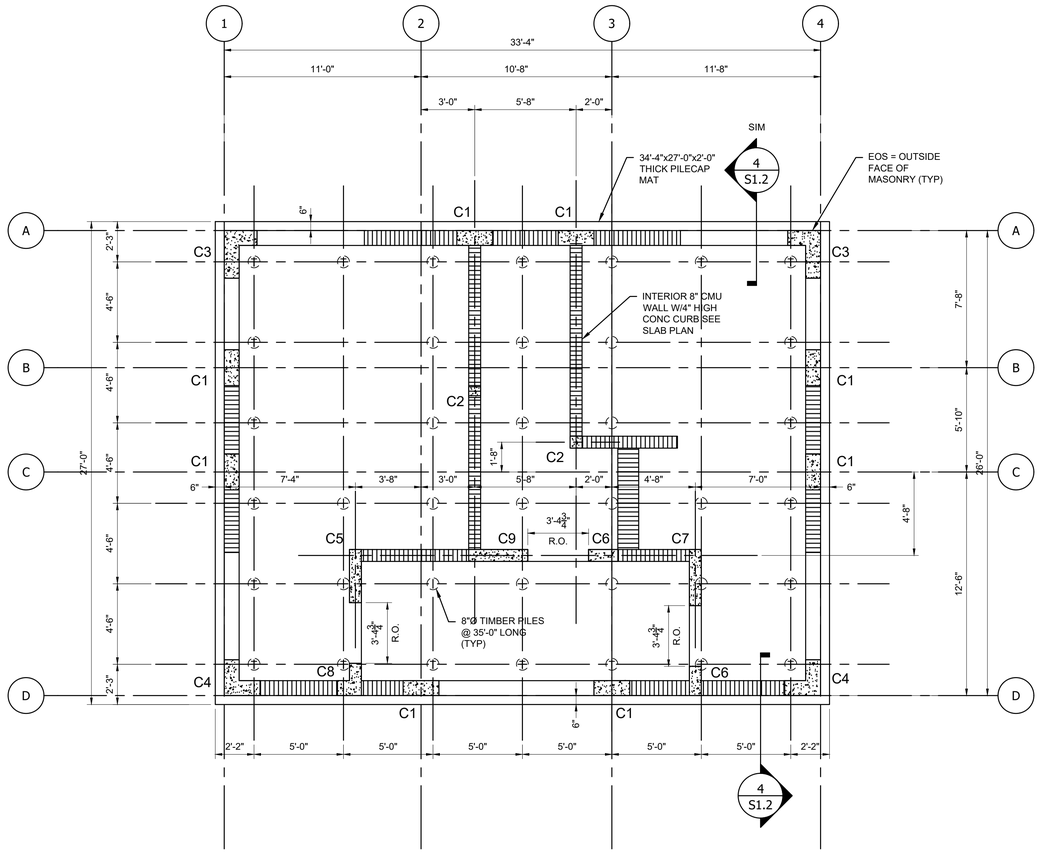
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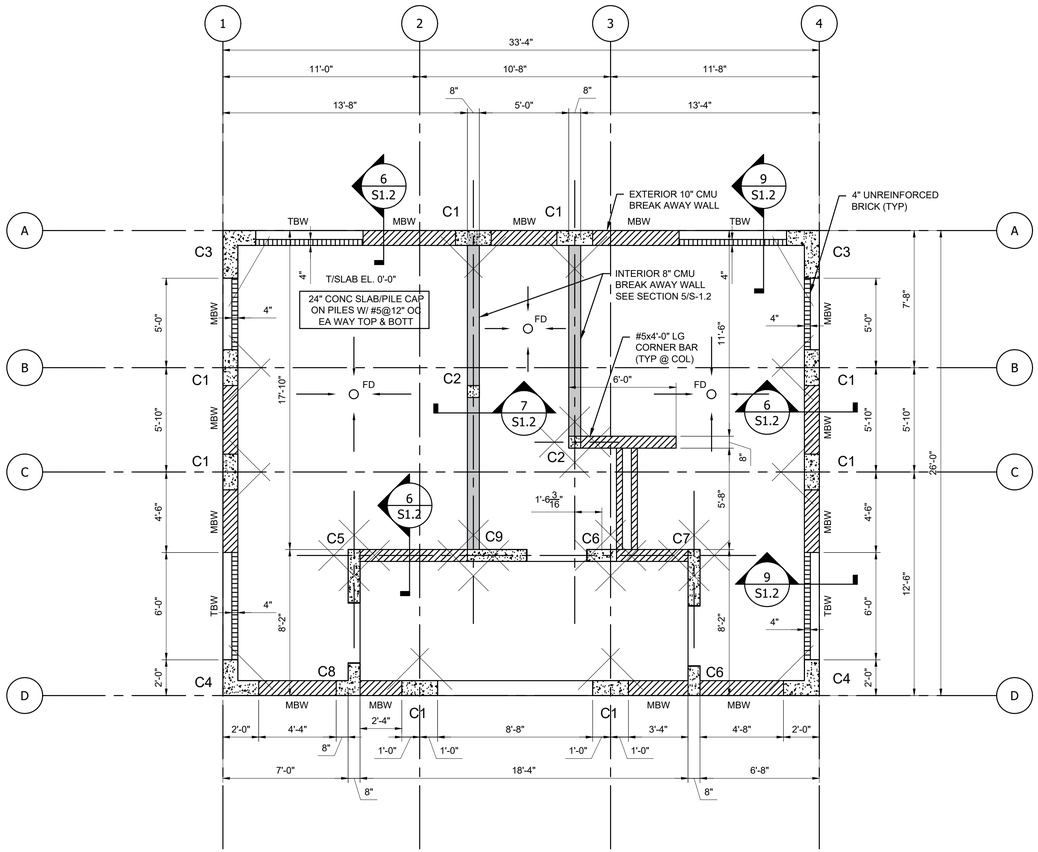
NORTH

1 FOUNDATION PLAN

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

1. C# - INDICATES COLUMN MARK - SEE DETAIL 2/S-1.2.
2. TOP OF FOOTING ELEVATION (-1'-0") UNO.
3. FOR DIMENSIONS NOT SHOWN ON THE DRAWINGS, REFER TO THE ARCHITECTURAL DRAWINGS. SEE ARCHITECTURAL FOR VERIFICATION OF ALL WALL LOCATIONS AND DIMENSIONS.
4. INDICATES TENSION PILE SEE 4/S1.2.
5. INDICATES NON TENSION PILE SEE 3/S1.2.
6. INDICATES BREAKAWAY WALL WITH 4" CONCRETE CURB. SEE PLAN TO MATCH ACTUAL CMU THICKNESS SEE 6/S1.2.

COLUMN SCHEDULE		
COLUMN	SIZE	REINFORCING
C1	9 5/8"x24"	SEE DETAIL 2/S1.2
C2	7 5/8"x7 5/8"	SEE DETAIL 2/S1.2
C3	9 5/8"x32"x22"	SEE DETAIL 2/S1.2
C4	9 5/8"x24"x24"	SEE DETAIL 2/S1.2
C5	7 5/8"x35 5/8"	SEE DETAIL 2/S1.2
C6	7 5/8"x19 5/8"	SEE DETAIL 2/S1.2
C7	7 5/8"x37 5/8"	SEE DETAIL 2/S1.2
C8	7 5/8"x16"x21 5/8"	SEE DETAIL 2/S1.2
C9	7 5/8"x39 5/8"	SEE DETAIL 2/S1.2



NORTH

2 GROUND FLOOR SLAB PLAN

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

T/SLAB EL. 0'-0" REF.
(MSL EL. 9.11')

1. 24" CONCRETE SLAB ON VAPOR BARRIER & COMPACTED FILL (SEE SPECIFICATIONS). REINFORCE WITH 6x6 W2.9xW2.9 WWR TOP, FLAT SHEETS.
2. PROVIDE CONTROL JOINTS USING SAWED JOINTS (S.J.) OR CONSTRUCTION JOINTS (C.J.) AS REQUIRED BY CONCRETE PLACEMENT, AND AS SHOWN ON THE SLAB PLAN, BUT SHALL NOT BE LOCATED MORE THAN 15' APART AND SHALL HAVE AREAS LIMITED TO A MAXIMUM LENGTH-TO-WIDTH RATIO OF 1.5 OR LESS, U.N.O. SAWCUT PER ACI SPECIFICATIONS.
3. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND OTHER DISCIPLINE DRAWINGS FOR DIMENSION, OPENINGS AND DEPRESSIONS NOT SHOWN ON THESE DRAWINGS.
4. DENOTES NON-LOAD BEARING CMU BREAKAWAY WALLS SEE 6/S1.2.
5. DENOTES NON LOAD BEARING BREAKAWAY WALL WITH REINF. SEE 7/S1.2.
6. MBW DENOTES TIMBER BREAKAWAY WALL SEE 6/S1.2.
7. TBW DENOTES TIMBER BREAKAWAY WALL SEE 9/S1.2.

0 ## ##
SCALE: FEET

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PROPOSED PUBLIC WORKS RESTROOM FACILITY FOR TOWN OF CAROLINA BEACH

FOUNDATION AND SLAB PLAN

NORTH CAROLINA PROFESSIONAL SEAL 31432 ENGINEER MARK F. WEISS

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11/25/2024

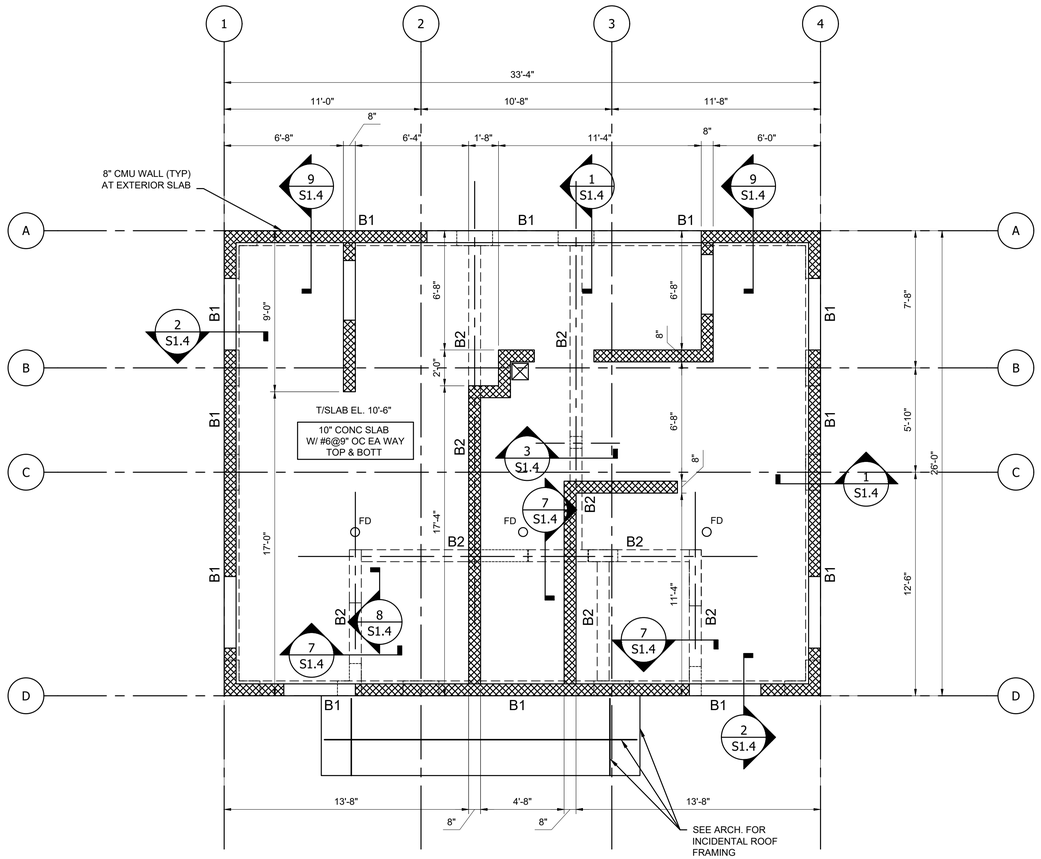
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1 SECOND LEVEL FRAMING PLAN
Scale: 1/4"=1'-0"

NORTH

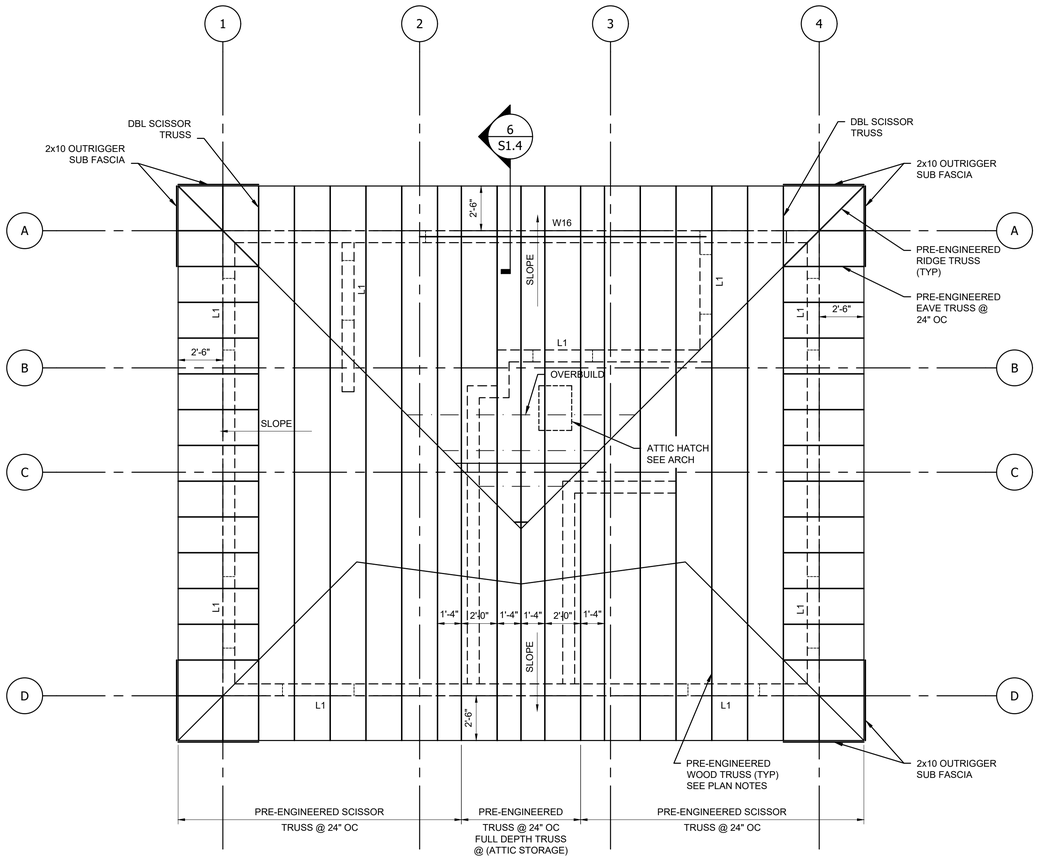
T/SLAB EL. 10'-6" (UNO).
(MSL EL. 19.61')

1. ▨ DENOTES NON-LOAD BEARING CMU WALLS.
2. ▩ DENOTES LOAD BEARING CMU WALLS W/ #5@24 OC UNO.
3. ▭ DENOTES WALL OPENINGS SEE ARCHITECTURAL.
4. B# DENOTES CONCRETE BEAM -SEE SCHEDULE.

CONCRETE BEAM SCHEDULE

BEAM	WIDTH	DEPTH	LONGITUDINAL				STIRRUPS	REMARKS
			BOTTOM	TOP	'C'	'D'		
B1	9 5/8"	18"	(2)#7	(2)#7			#4@ 7" OC	-
B2	7 5/8"	18"	(2)#7	(2)#7			#4@ 7" OC	-

NOTE: SEE 5/S1.4 FOR REINFORCING DETAILING.



2 ROOF LEVEL FRAMING PLAN
Scale: 1/4"=1'-0"

NORTH

BOTT/TRUSS EL. 19'-8½" (UNO).
(MSL EL. 28.82')

TIMBER FRAMING NOTES :

1. FRAMING SHOWN IS FOR BID PURPOSES ONLY. FINAL LAYOUT & MEMBER SIZES SHALL BE BY TIMBER TRUSS SUPPLIER. DESIGN SHALL BE SEALED BY A REGISTER PROFESSIONAL ENGINEER IN THE STATE OF NC.
2. ALL STRUCTURAL STEEL, CONCRETE, MASONRY, AND TIMBER FRAMING SHALL CONFORM TO REQUIREMENTS LOCATED ON SHT. S0.0 & S0.1
3. ALL ELEVATIONS ARE ABOVE FINISHED FLOOR FOR THIS DRAWING.
4. ENTIRE ROOF SHOWN ON THIS DRAWING SHALL RECEIVE ROOF METAL DECK(SEE NOTES SHT. S0.1) AND STANDING SEAM METAL ROOFING (SEE ARCH.)
5. COORDINATE ALL ROOF OPENINGS W/ ARCHITECTURAL AND MECHANICAL, FOR SIZE & LOCATION.
6. WORK THIS DRAWING WITH ARCHITECTURAL DRAWINGS.
7. L# INDICATES LINTEL SEE SCHEDULE ON S-1.3.
8. FOR DIMENSIONS NOT SHOWN SEE FOUNDATION PLAN AND ARCHITECTURAL DRAWINGS.
9. FOR TRUSS PROFILE SEE ARCHITECTURAL DRAWINGS.

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FOR TOWN OF CAROLINA BEACH

SECOND LEVEL FRAMING AND
ROOF LEVEL FRAMING PLAN

NORTH CAROLINA PROFESSIONAL SEAL 31432 ENGINEER MARK F. WEISS
Docusigned by: Mark Weiss
11/25/2024

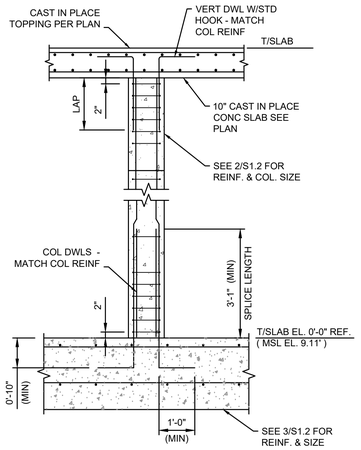
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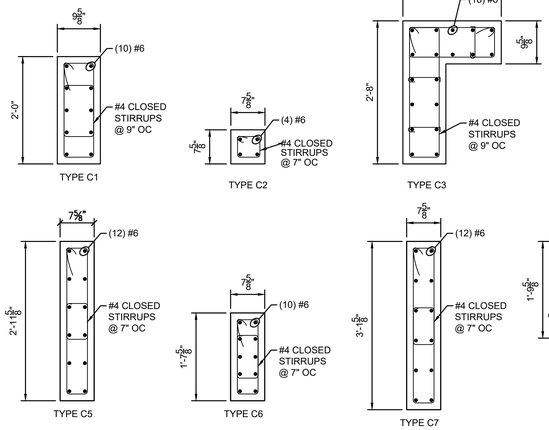
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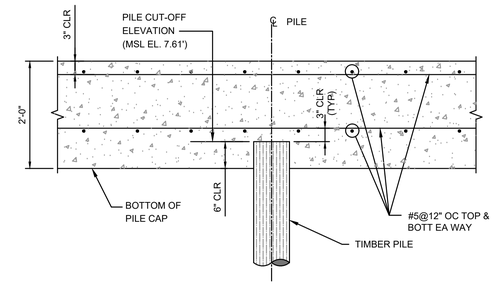
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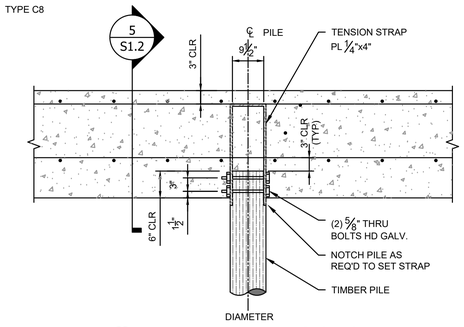
1 SECTION AT COLUMN
Scale:1/2"=1'-0"



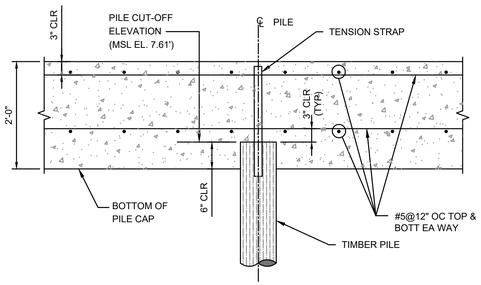
2 TYPICAL COLUMN DETAILS
Scale:3/4"=1'-0"



3 TYPICAL PILE DETAIL
Scale:3/4"=1'-0"



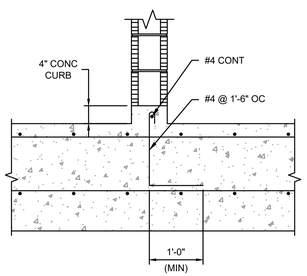
4 DETAIL PILE TENSION STRAP
Scale:3/4"=1'-0"



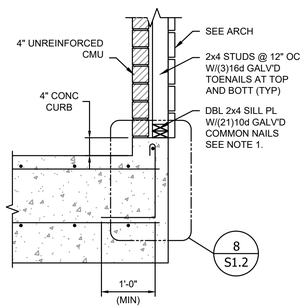
5 TYPICAL PILE DETAIL
Scale:3/4"=1'-0"

6 NON-LOAD BEARING BREAKAWAY WALL DETAIL
Scale:1/2"=1'-0"

7 TYPICAL NON-BEARING BREAKAWAY WALL WITH REINFORCEMENT
Scale:1/2"=1'-0"



8 TYPICAL CURB DETAIL AT BREAKAWAY CMU WALL
Scale 3/4"=1'-0"



9 TYPICAL TIMBER AT BREAKAWAY WALL
Scale 3/4"=1'-0"

NOTE:
1. DIVIDE EQUALLY BETWEEN TOP & BOTT EVENLY SPACED (NAILS MUST NOT BE USED ALONG PANEL SIDES).

0 ## ##
SCALE: FEET

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SECTIONS & DETAILS

NORTH CAROLINA PROFESSIONAL SEAL 31432 ENGINEER MARK F. WEISS
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11/25/2024

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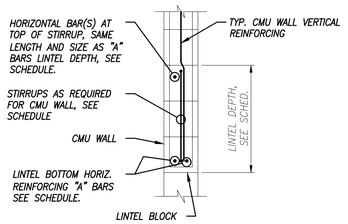
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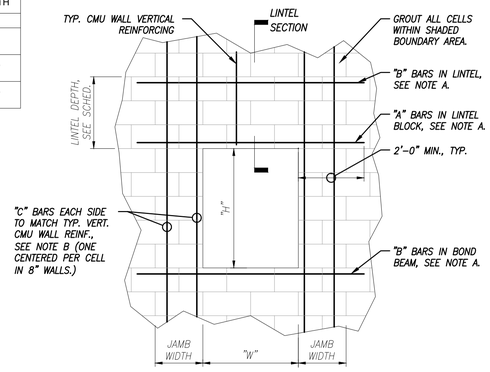
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CMU OPENING LINTEL REINFORCING SCHEDULE						
CMU WALLS						
W	LINTEL DEPTH	STIRRUP SIZE, SPG	"A" BARS	"B" BARS	"C BARS	JAMB WIDTH
≤ 2'-8"	8"	-	(2) #5	-	1	8"
>2'-8" ≤ 4'-0"	16"	-	(2) #5	(1) #5	1	8"
>4'-0 ≤ 6'-0"	16"	-	(2) #5	(1) #5	4	16"
>6'-0" ≤ 8'-6"	24"	-	(2) #6	(2) #5	4	16"



LINTEL SECTION

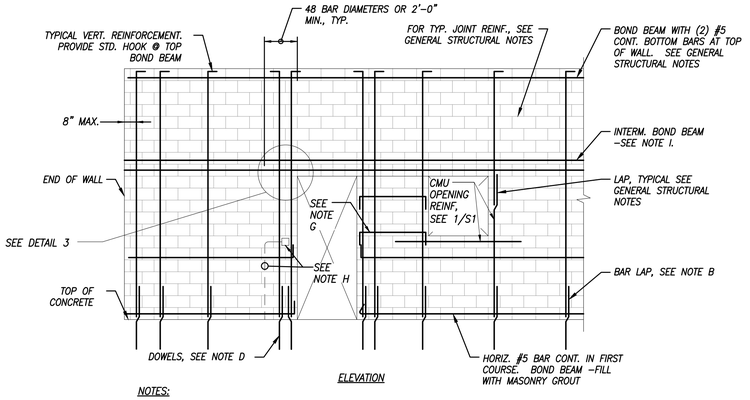


LINTEL ELEVATION

NOTES:

A. USE BAR QUANTITIES AND SIZES GIVEN IN LINTEL SCHEDULE UNLESS OTHER WISE NOTED ON DRAWINGS.
B. EXTEND "C" BARS 48 BAR DIAMETERS OR 2'–0" MINIMUM BEYOND TOP AND BOTTOM OF OPENING EXCEPT THAT WHEN "H" OR "W" EXCEEDS 2'–0", LAP LENGTH FOR VERT BARS SHALL BE PER GENERAL NOTES, UNO.
C. STAGGER SPLICES IN ADJACENT HORIZONTAL BARS IN THE SAME COURSE BY 2'–0".

1 LINTEL REINFORCING CMU
NOT TO SCALE



ELEVATION

NOTES:

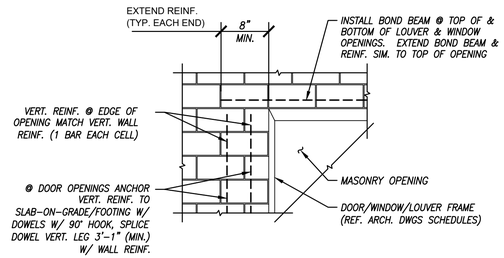
A. FOR WALL REINF SEE SECTIONS AND DETAILS. FOR MINIMUM REINF REQUIREMENTS, SEE NOTES S0.
B. LAP VERTICAL REINF WITH WALL DOWELS. LAP LENGTH FOR VERT BARS SHALL BE PER GENERAL NOTES, UNO
C. STAGGER SPLICES IN ADJACENT HORIZONTAL BARS IN THE SAME COURSE BY 2'–0".
D. PROVIDE DOWEL BARS IN FOUNDATION TO MATCH ALL VERTICAL REINF.
E. FOR REINFORCING AT WALL INTERSECTIONS AND CORNERS SEE DETAILS THIS SHEET.
F. FOR LINTEL SCHEDULE & OPENING REINF. SEE DETAILS THIS SHEET.
G. PROVIDE A STANDARD 180° HOOK EACH END ON ANY HORIZ BAR BETWEEN OPENINGS, CONTROL JOINTS, OR CORNERS LESS THAN 6'–0" IN LENGTH.
H. DO NOT PLACE VERTICAL CONDUIT IN THE SAME CELL AS VERTICAL REINFORCING.
I. PROVIDE 8" INTERMEDIATE BOND BEAMS AT 3'–4" O.C. VERTICALLY, MAX. W/ (1) #5 CONT. BOT.; FILL WITH MASONRY GROUT. PROVIDE A 180 DEG HOOK AT THE END OF ALL BARS AT ENDS OF THE WALL AND AT OPENINGS.
J. ALL CELLS SHALL BE FILLED W/ 3,000 PSI PEA GRAVEL CONCRETE MIX.
K. HORIZONTAL REINF SHALL BE ANCHORED AROUND VERTICAL REINFORCING W/ STD 180°.

2 TYP CMU REINFORCING ELEVATION
NOT TO SCALE

CMU REINFORCING LAP SPLICE & DEVELOPMENT LENGTHS							
SIZE	BAR SIZE						
	#3	#4	#5	#6	#7	#8	#9
8" CMU	18"	24"	30"	38"	51"	M	M

NOTES:

A. f 'm = 2,000 psi.
B. REBAR SHALL BE UNCOATED.
C. REBAR IS LOCATED IN CENTER OF CELL.
D. 'M' DENOTED MECHANICAL BAR SPLICE IS REQUIRED. SPLICE SHALL DEVELOP 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR IN TENSION OR COMPRESSION.



3 DETAIL
NOT TO SCALE

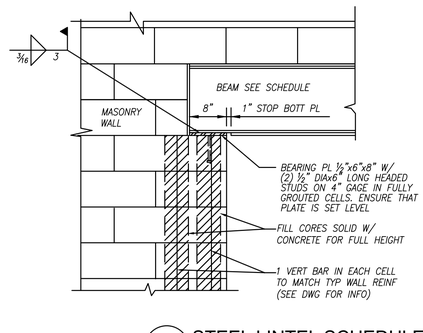
EXTERIOR CORNER INTERIOR CORNER

NOTES:

A. SEE GENERAL STRUCTURAL NOTES FOR LAP REQUIREMENTS.
B. PROVIDE A STANDARD 90° HOOK EACH END ON ANY HORIZONTAL BAR BETWEEN OPENINGS, CONTROL JOINTS, OR CORNERS LESS THAN 6'–0" IN LENGTH.

4 WALL REINFORCING CMU
NOT TO SCALE

5 CONTROL JOINT DETAIL
NOT TO SCALE



LINTEL SCHEDULE			
NO SUPERIMPOSED LOADS	SYM	SECTION	DESCRIPTION
	L1	3"	8"X8" CMU LINTEL BLOCK W/(2)#5 BOTTOM, FILL W/ GROUT. M.O. TO 3'-4"
	L2	3"	8"X16" CMU LINTEL BLOCK W/(2)#5 TOP & BOT. FILL W/ GROUT., M.O. TO 6'-4"
	L3		W16 X 26 WITH BOTTOM PLATE 3/8" X WALL THICK LESS 1" ADD STUDS SEE NOTE 6 M.O. TO 12'-0" WIRE TIES TO BEAM AT JOINT

NOTES:
1. ALL U BLOCKS, BEAMS, & ANGLES SHALL SPAN OPENING + 8" EA. SIDE, U.N.O..
2. COORDINATE LOCATION, OPENING, AND WALL THK. W/ ARCHITECTURAL PLAN. SIZE LINTELS BY THIS SCHEDULE.

6 STEEL LINTEL SCHEDULE AND BEARING DETAIL
NOT TO SCALE

THIS PAGE IS FOR LOAD BEARING WALLS WITH REINFORCING

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SECTIONS & DETAILS

NORTH CAROLINA PROFESSIONAL SEAL 31432 ENGINEER MARK F. WEISS

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11/25/2024

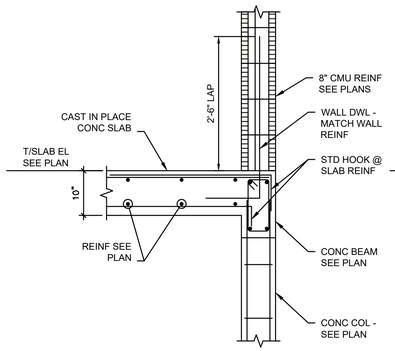
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S1.3

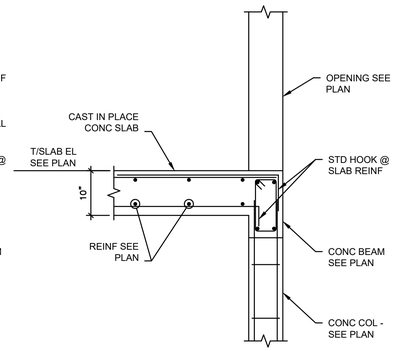
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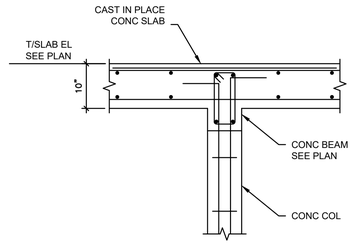
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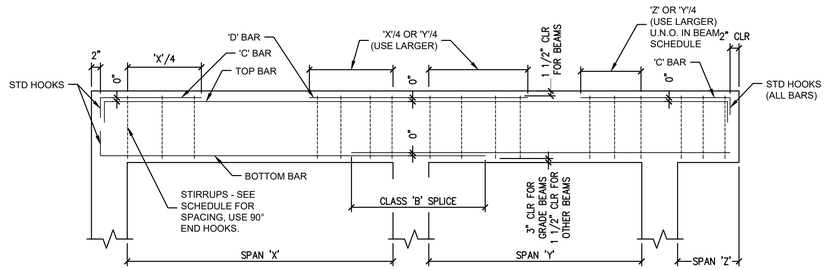
1 SECTION
Scale:3/4"=1'-0"



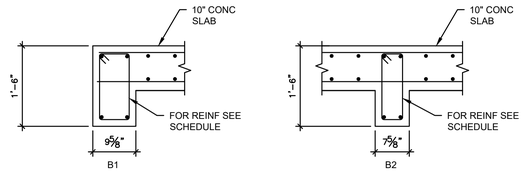
2 SECTION
Scale:3/4"=1'-0"



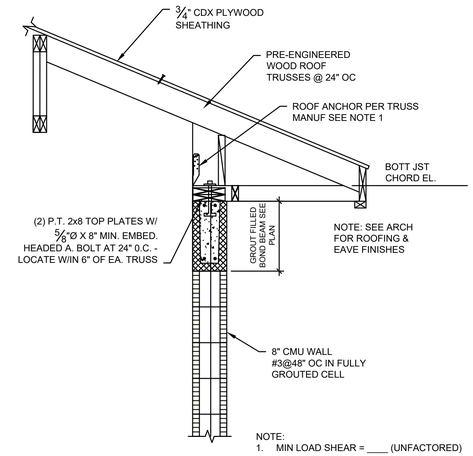
3 SECTION
Scale:3/4"=1'-0"



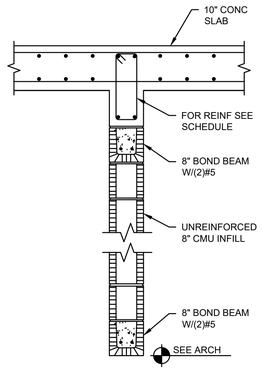
4 TYPICAL BENDING DIAGRAM FOR BEAMS
Scale:3/4"=1'-0"



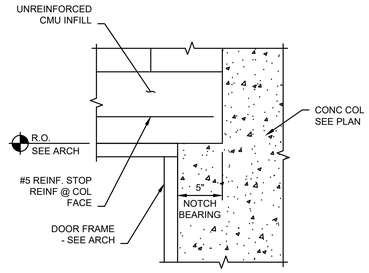
5 TYPICAL CONCRETE BEAM DETAILS
Scale:3/4"=1'-0"



6 SECTION
Scale: 3/4"=1'-0"



7 SECTION
Scale:3/4"=1'-0"



8 SECTION
Scale:1 1/2"=1'-0"

TYPICAL EDGE DETAIL AT BREAKAWAY CMU WALL
9
Scale 3/4"=1'-0"

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SECTIONS & DETAILS

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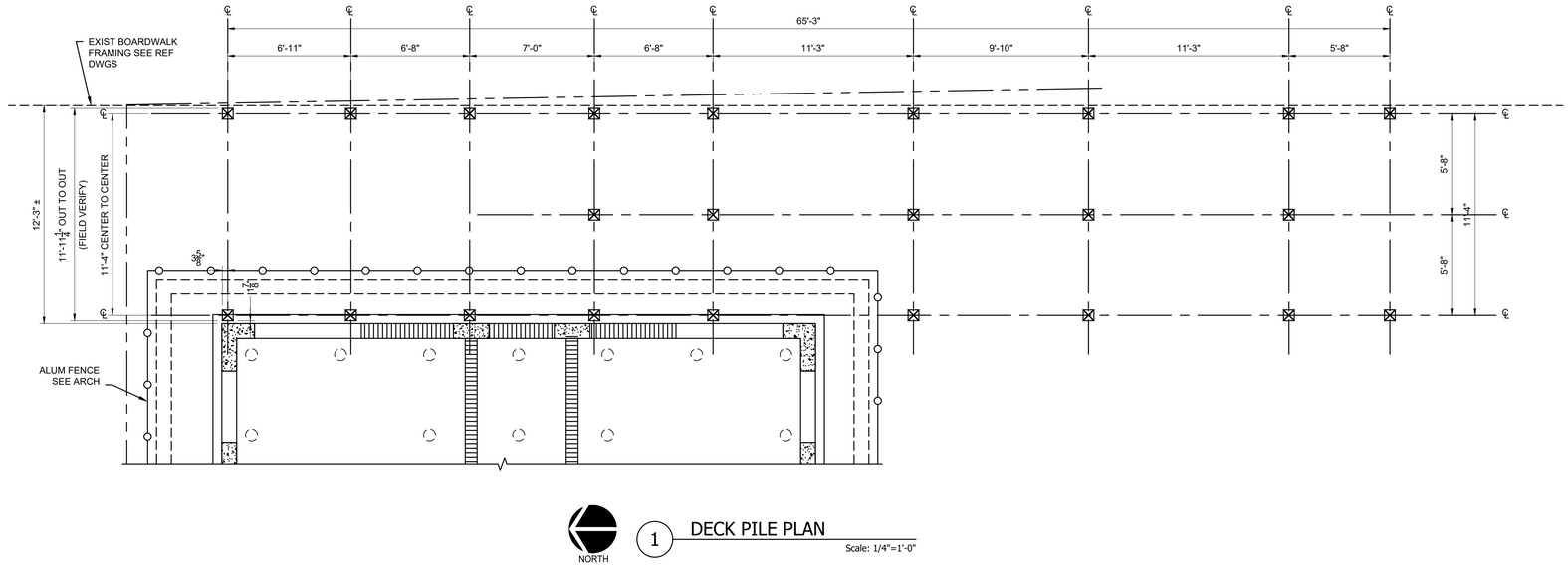
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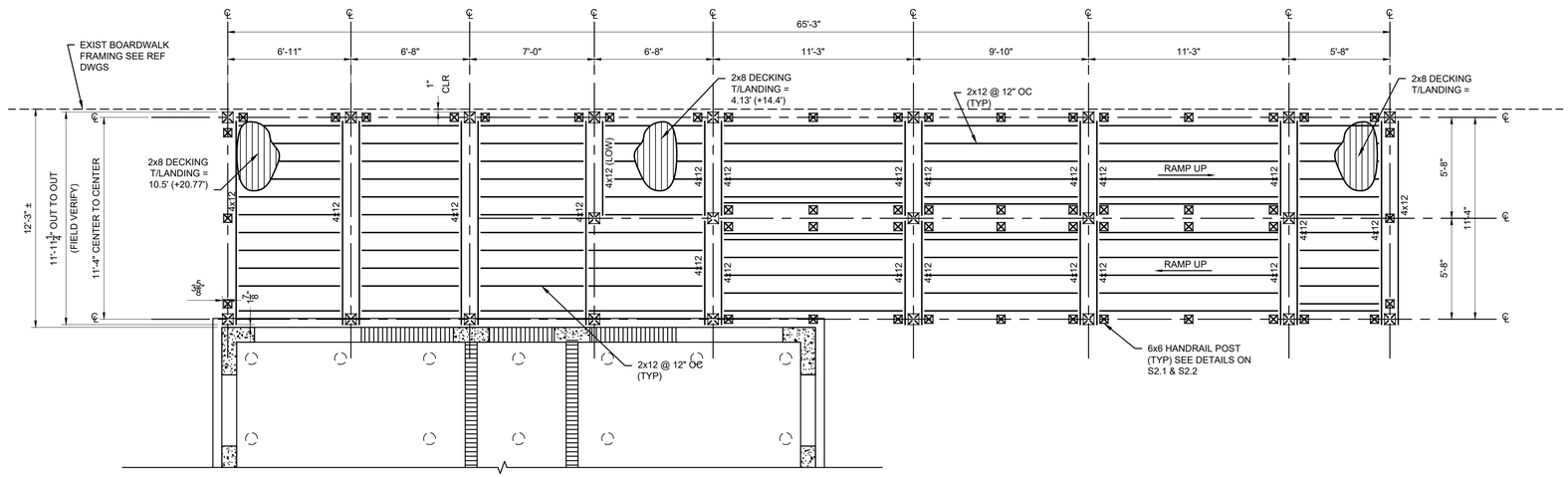


NORTH

1 DECK PILE PLAN

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

1. ⊠ DENOTES NEW 8x8 PT PILE.



NORTH

2 DECK FRAMING PLAN

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

1. ⊠ DENOTES 8x8 PT TIMBER PILE BELOW.

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DECK PILE AND DECKING FRAMING PLAN

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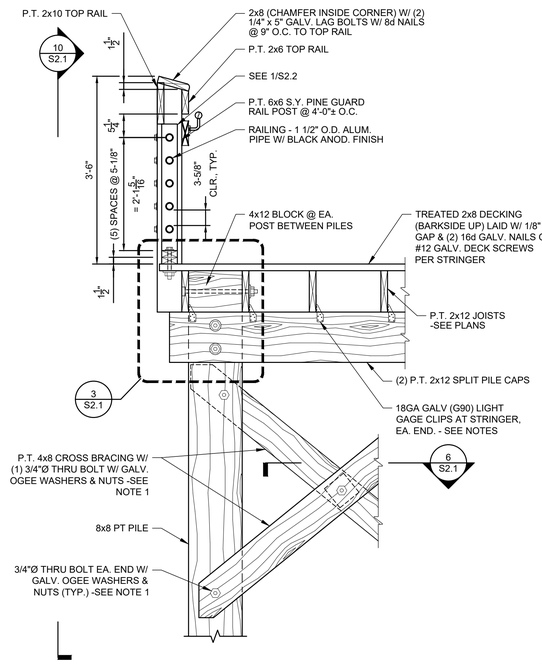
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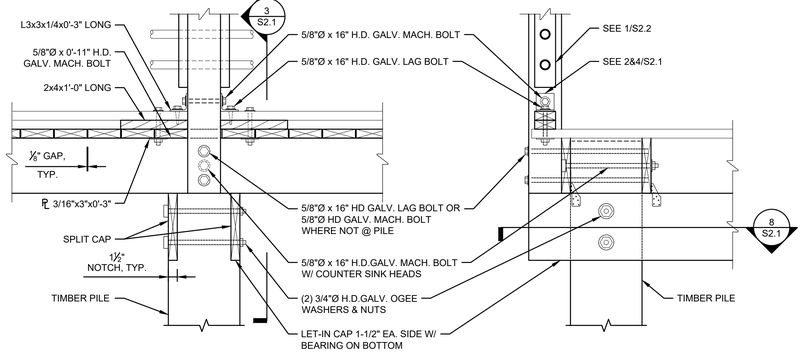
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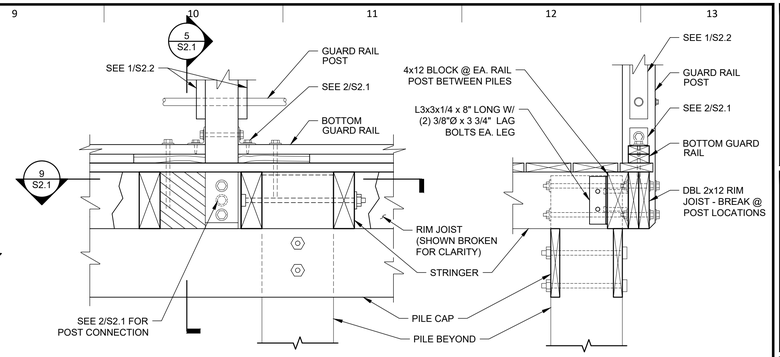
1 DETAIL - PIER
SCALE: 3/4" =1'-0"

NOTES:
1. ALL FASTENERS & HARDWARE AT OR BELOW MLW SHALL BE 316L STAINLESS STEEL.



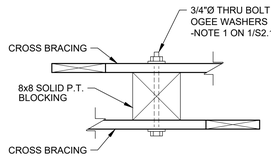
2 AT PILE LOCATIONS DETAIL - POST CONNECTION
SCALE: 1" =1'-0"

3 SECTION
SCALE: 1" =1'-0"

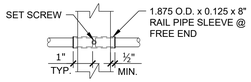


4 WHERE NOT @ PILE LOCATIONS DETAIL - POST CONNECTION
SCALE: 1" =1'-0"

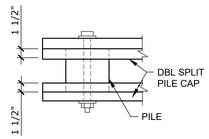
5 SECTION
SCALE: 1" =1'-0"



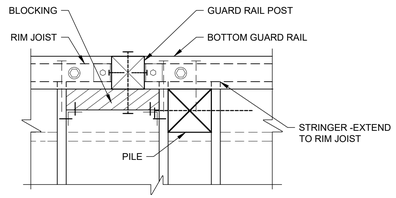
6 DETAIL - CROSS BRACING MID-SPAN CONNECTION
SCALE: 1" =1'-0"



7 DETAIL - RAIL PIPE SLEEVE
SCALE: 1" =1'-0"

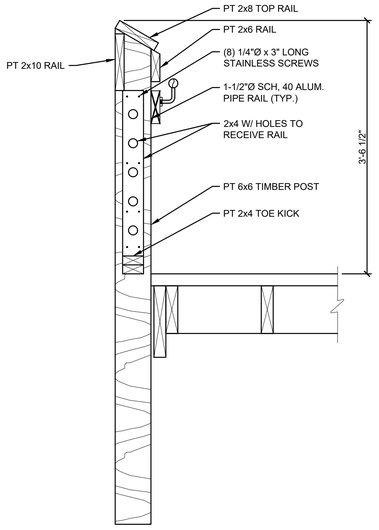


8 PLAN - PILE CAP
SCALE: 1" =1'-0"

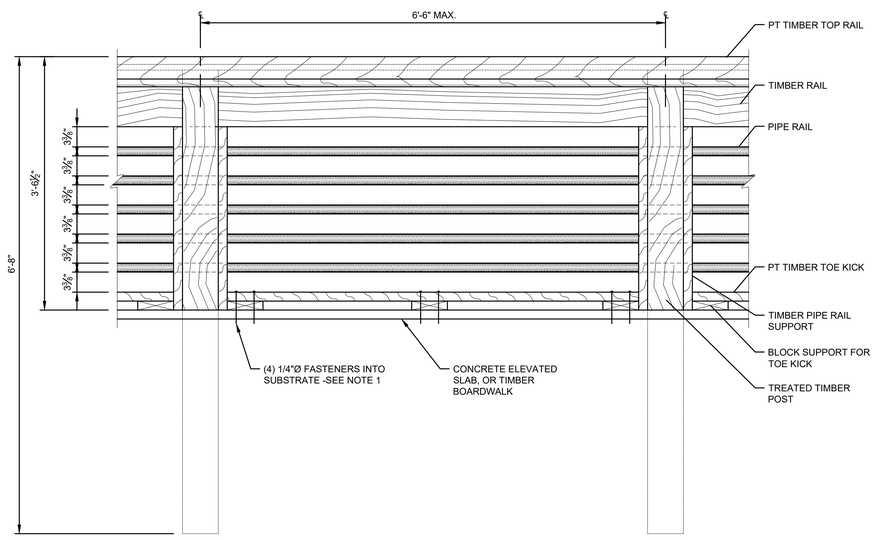


9 PLAN - GUARDRAIL POST AT JOIST END
SCALE: 1" =1'-0"

FOR INFORMATION NOT SHOWN SEE 5/S2.1

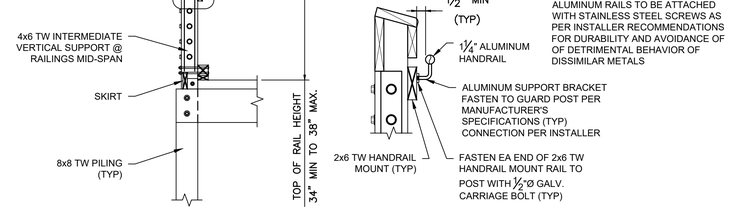


10 SECTION - RAILING @ TIMBER DECK
SCALE: 1" = 1'-0"



11 ELEVATION - RAILING, TYP.
SCALE: 1" = 1'-0"

NOTES:
1. FASTENERS TO SUBSTRATE SHALL BE:
   CONCRETE: 1/4"Ø x 6" LONG KWIK-CON II (STAINLESS)
   TIMBER: 1/4"Ø x 6" LONG STAINLESS WOOD SCREWS



MAGNIFIED VIEW

12 RAMP HAND GRAB DETAIL (TYPICAL)
SCALE: 1/2" =1'-0"

SCALE: FEET

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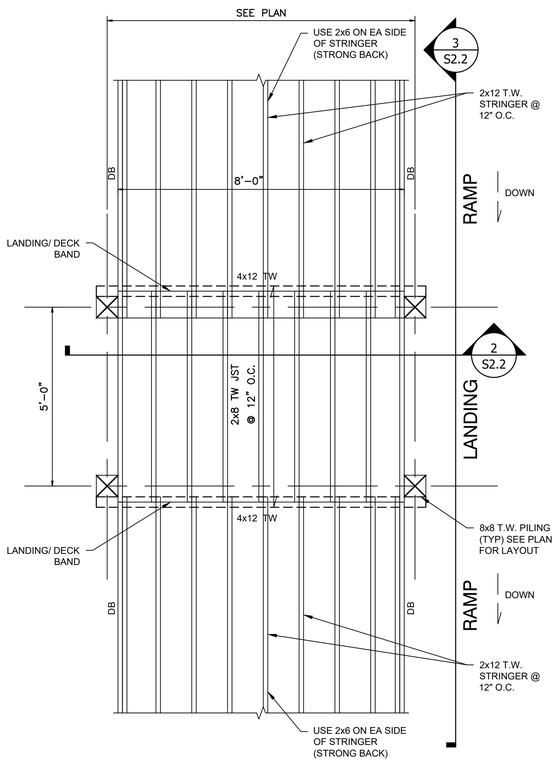
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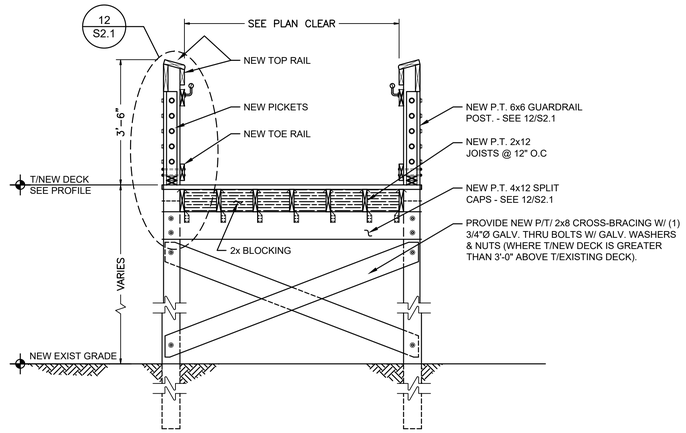
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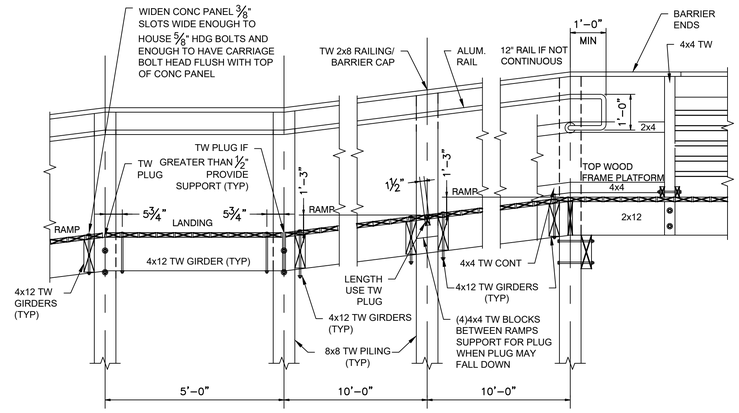
1 S2.2 WOOD LANDING FRAMING PLAN (TYPICAL)

SCALE: 1/2" = 1'–0"



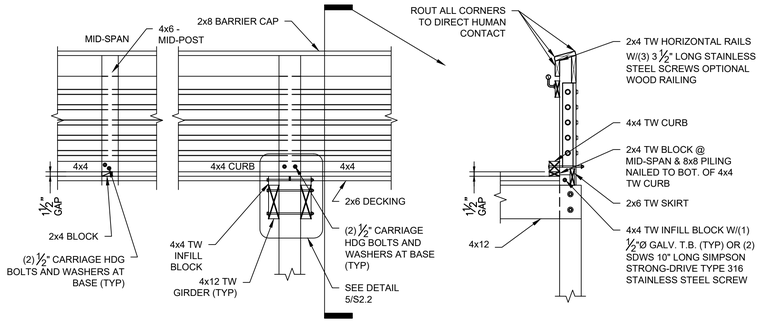
2 S2.2 TYPICAL SECTION - NEW MODIFIED ELEVATED ACCESS

SCALE: 1/2" = 1'–0"



3 S2.2 LANDING/RAMP CROSS SECTION (TYPICAL)

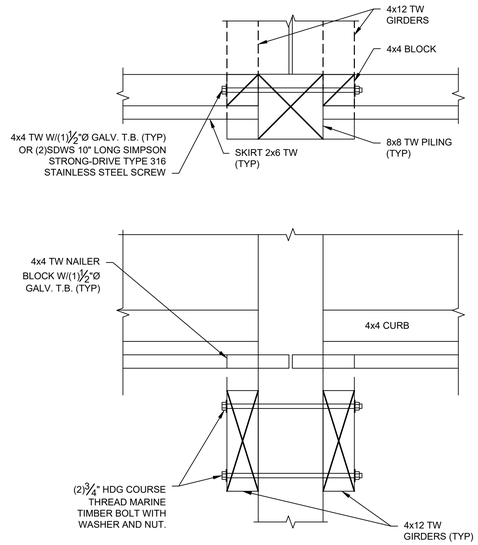
SCALE: 1/2" = 1'–0"



4 S2.2 POST/RAILING DETAIL WITH OPTIONAL WOOD RAILING EXTERIOR VIEW (TYPICAL)

SCALE: 1/2" = 1'–0"

NOTES:
1. COORDINATE ANY POST INSTALLED ANCHORS W/ PRECAST VENDOR.



5 S2.2 GIRDER DETAIL (TYPICAL)

SCALE: 1 1/2" = 1'–0"

SCALE: FEET

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DECK SECTIONS AND DETAILS

NORTH CAROLINA PROFESSIONAL SEAL 31432 ENGINEER MARK F. WEISS

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11/25/2024

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SECTION 230500 – HEATING AND AIR CONDITIONING SPECIFICATIONS

230501 GENERAL

A. THE HEATING AND AIR CONDITIONING CONTRACTOR SHALL INSTALL ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE NORTH CAROLINA STATE BUILDING CODE.

B. PERMITS AND INSPECTION FEES: THE HEATING AND AIR CONDITIONING CONTRACTOR SHALL SECURE ALL NECESSARY REQUIRED PERMITS AND INSPECTIONS FOR HIS WORK. INSPECTION BY LOCAL AUTHORITIES WILL BE REQUIRED.

C. THE DRAWINGS ACCOMPANYING THESE SPECIFICATIONS INDICATE DIAGRAMMATICALLY THE GENERAL LOCATION OF THE DUCTS, PIPING, AND EQUIPMENT AND DO NOT SHOW ALL OFFSETS, FITTINGS, BOLTS, CONNECTIONS, SUPPORTS, ETC., REQUIRED FOR A COMPLETE SYSTEM. WHILE THE DRAWINGS ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE, IF IT IS FOUND NECESSARY TO CHANGE THE LOCATION OF SAME TO ACCOMMODATE THE CONDITIONS AT THE BUILDING, SUCH CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER, AND AS DIRECTED BY THE ENGINEER. ANY DETAIL WHICH IS OMITTED, AND WHICH IS NECESSARY FOR THE PROPER OPERATION OF ANY SYSTEM INCLUDED UNDER THE CONTRACT, SHALL BE SUPPLIED AND INSTALLED BY THE HEATING AND AIR CONDITIONING CONTRACTOR WITHOUT EXTRA COST TO THE OWNER. ALL PIPES AND DUCTS SHALL BE RUN AS HIGH AS POSSIBLE TO MAINTAIN CEILING AND HEAD CLEARANCE. ALL EQUIPMENT SHALL BE INSTALLED IN SUCH A MANNER AS TO ALLOW PROPER MAINTENANCE ACCESS.

D. CONDITIONS SHALL BE CHECKED AT THE BUILDING BEFORE FABRICATING OR PLACING ORDERS FOR APPARATUS AND SUCH APPARATUS SHALL BE OF SUCH DIMENSIONS AS TO FIT THE SPACES ALLOTTED. THE HEATING AND AIR CONDITIONING CONTRACTOR SHALL NOT SCALE MECHANICAL PLANS, BUT RATHER REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS.

E. GUARDS SHALL BE PROVIDED FOR ALL MOVING EQUIPMENT, MOTOR COUPLINGS, PUMP SHAFTS, BELT DRIVES AND SIMILAR EXPOSED RECIPROCATING OR ROTATING COMPONENTS.

F. ALL NEW HVAC AND REFRIGERATION EQUIPMENT SHALL BE LABELED IN ACCORDANCE WITH SECTION 301 OF THE NORTH CAROLINA STATE BUILDING CODE AND AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. LABELING SHALL BE A PERMANENT FACTORY-APPLIED NAMEPLATE AFFIXED TO THE EQUIPMENT ON WHICH SHALL APPEAR IN LEGIBLE LETTERING, THE MANUFACTURER'S NAME OR TRADEMARK, THE MODEL, SERIAL NUMBER, AND THE SEAL OR MARK OF THE TESTING AGENCY.

230502 SCOPE

THE HEATING AND AIR CONDITIONING CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS REQUIRED FOR A COMPLETE SYSTEM READY FOR OPERATION AS SHOWN ON THE DRAWINGS AND HEREINAFTER SPECIFIED. THIS INCLUDES ALL EQUIPMENT, DUCTWORK, PIPING AND ALL OTHER SERVICES NECESSARY WHETHER THEY ARE SPECIFICALLY MENTIONED HEREIN OR NOT. THE ENTIRE INSTALLATION SHALL BE INSTALLED IN A FIRST-CLASS, NEAT, PROFESSIONAL MANNER TO THE SATISFACTION OF THE ENGINEER AND SHALL CONFORM TO ALL APPLICABLE CODES AND LAWS.

230503 SHOP DRAWINGS AND SUBMITTAL DATA

THE HEATING AND AIR CONDITIONING CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING THE DETAILED ARRANGEMENT OR CONNECTIONS THAT ARE SHOWN SCHEMATICALLY ON THE DRAWINGS. DATA CERTIFIED FOR THE SPECIFIED PROJECT AND INDICATED MANUFACTURER, TYPE, OR SIZE, CAPACITY, ETC., SHALL BE SUBMITTED FOR THE FOLLOWING EQUIPMENT ITEMS:

A. POWER VENTILATORS

B. DIFFUSERS, GRILLES, AND REGISTERS

C. HEATERS

D. MANUAL AND MOTORIZED DAMPERS

230504 APPROVED EQUAL EQUIPMENT, ETC.

MANUFACTURERS LISTED ARE TO ESTABLISH A STANDARD OF QUALITY AND NOT INTENDED TO LIMIT THE SELECTION TO THESE MANUFACTURERS. ALL MATERIALS AND EQUIPMENT WHICH ARE ESSENTIAL AND HAVE NOT BEEN SPECIFIED OR SHOWN SHALL BE NEW AND OF THE HIGHEST GRADE AND QUALITY, FREE FROM DEFECT OR OTHER IMPERFECTIONS. IT SHOULD BE UNDERSTOOD THAT WHERE THE WORD PROVIDE IS USED, IT IS INTENDED THAT THE HEATING AND AIR CONDITIONING CONTRACTOR SHALL PURCHASE AND INSTALL ALL MATERIALS REQUIRED. APPROVAL OF EQUIPMENT WILL NOT RELIEVE THE CONTRACTOR OF COMPLIANCE WITH THE SPECIFICATIONS EVEN IF SUCH APPROVAL IS MADE IN WRITING, UNLESS THE ATTENTION OF THE ENGINEER IS CALLED TO THE NON-COMPLYING FEATURES BY LETTER ACCOMPANYING THE SUBMITTAL DATA. APPROVAL OF SUBMITTAL DATA BY THE ENGINEER SHALL NOT BE CONSTRUED AS A COMPLETE CHECK OR APPROVAL OF DETAILED DIMENSIONS, WEIGHTS, GAUGES, AND SIMILAR DETAILS WITH THE PROPOSED ARTICLES. THE CONFORMANCE WITH THE NECESSARY COORDINATION BETWEEN THE VARIOUS OTHER CONTRACTORS AND SUPPLIERS SHALL BE SOLELY THE RESPONSIBILITY OF THE HEATING AND AIR CONDITIONING CONTRACTOR.

230505 POWER VENTILATORS

A. POWER VENTILATORS SHALL BE TESTED AND RATED IN ACCORDANCE WITH THE STANDARDS OF AMCA 210 AND SHALL CARRY THE AMCA SEAL. ALL FANS SHALL BE UL LABELED. FANS SHALL BE COOK, GREENHECK, CARNES, TWIN CITY, PENNBARRY, OR APPROVED EQUAL.

B. IN-LINE FANS SHALL BE CENTRIFUGAL IN-LINE VENTILATOR WITH VARIABLE SPEED BELT DRIVE OR DIRECT DRIVE AS INDICATED ON THE DRAWINGS. HOUSING SHALL BE CONSTRUCTED OF STEEL WITH REMOVABLE DRIVE DOOR AND ACCESS PANEL. WHEEL SHALL BE DYNAMICALLY AND STATICALLY BALANCED. MOTOR BASE SHALL BE ADJUSTABLE AND HAVE LOCKING SCREWS AND GUIDES TO PROVIDE POSITIVE BELT TENSION AND CORRECT ALIGNMENT. BALL BEARINGS SHALL BE HEAVY-DUTY SELF-ALIGNING, RELUBRICABLE FLANGE TYPE WITH LOCKING COLLARS. BEARINGS MUST BE SELECTED FOR 125,000 HOURS AVERAGE SERVICE LIFE AT MAXIMUM CATALOGED OPERATING SPEED. DRIVES SHALL BE CAST IRON AND HAVE A MINIMUM OF 1.25 SERVICE FACTOR. DRIVES SHALL BE ISOLATED FROM THE AIRSTREAM. MOTORS SHALL BE EISA 2007 NEMA PREMIUM EFFICIENCY WITH EFFICIENCY RATING STAMPED ON MOTOR NAMEPLATE. ALL UNITS SHALL BE PROVIDED WITH BACKDRAFT DAMPERS, BASE MOUNTED VIBRATION ISOLATORS, MOTOR/DRIVE GUARDS, AND DISCONNECT SWITCHES. DIRECT DRIVE UNITS SHALL HAVE SOLID-STATE MOTOR SPEED CONTROLLERS WITH AN "OFF" POSITION.

230506 DIFFUSERS, GRILLES, AND REGISTERS

A. DIFFUSERS, GRILLES AND REGISTERS SHALL BE AS MANUFACTURED BY CARNES, METAL AIRE, TITUS, PRICE, KRUEGER, OR APPROVED EQUAL UNLESS OTHERWISE NOTED.

B. ALL DIFFUSERS, GRILLES, AND REGISTERS SHALL BE PAINTED OFF-WHITE UNLESS OTHERWISE NOTED. WHERE INDICATED ON DRAWINGS TO BE FIELD PAINTED, WHITE FACTORY FINISH SHALL BE AS NECESSARY TO RECEIVE FIELD FINISH PAINTING.

C. ALL DIFFUSERS, GRILLES, AND REGISTERS SHALL HAVE A MAXIMUM NC LEVEL OF 25 IN THE SPACE FOR THE SPECIFIED AIRFLOW.

D. SIDEWALL EXHAUST REGISTERS: SHALL BE ALUMINUM CONSTRUCTION WITH FIXED BLADES ON 1/2" CENTERS SET AT 35-DEGREE ANGLES. REGISTERS SHALL INCLUDE ALUMINUM OPPOSED BLADE DAMPERS.

E. EXHAUST REGISTERS: SHALL BE ALUMINUM CONSTRUCTION WITH FIXED BLADES ON 1/2" CENTERS SET AT 35° ANGLES AND ALUMINUM OPPOSED BLADE DAMPERS.

230507 HEATERS

A. ELECTRIC FAN HEATERS SHALL BE HORIZONTAL SURFACE MOUNTED AND SHALL HAVE WATTAGE, VOLTAGE, PHASE, BTU/HR OUTPUT AND MOUNTING AS SHOWN ON THE DRAWINGS OR AS SPECIFIED. PROVIDE RECESS MOUNTED UNIT THE COMPLETE UNIT SHALL COMPLY WITH THE REQUIREMENTS OF THE UNDERWRITERS LABORATORIES, INC., AND THE REQUIREMENTS HEREINAFTER SPECIFIED. CEILING HEATER SHALL BE A SELF-CONTAINED, FACTORY ASSEMBLED FAN FORCED HEATING UNIT AND SHALL CONSIST GENERALLY OF HEATING ELEMENTS, FANS, DRIVING MOTOR, MOTOR SWITCH, AND CASING WITH INLET AND OUTLET GRILLES. EACH COMPLETE HEATER SHALL BE PROVIDED WITH TERMINALS FOR CONTROL CIRCUITS AS NECESSARY AND FOR A SINGLE SOURCE OF POWER SUPPLY. SOUND RATING OF UNIT HEATERS SHALL BE CLASSIFICATION I OR II IN ACCORDANCE WITH THE AIR MOVING AND CONDITIONING ASSOCIATION STANDARDS. HEATER SHALL BE PROVIDED WITH BUILT-IN DISCONNECT SWITCH. HEATERS SHALL HAVE BUILT IN TAMPER PROOF THERMOSTAT. HEATERS SHALL BE MARKEL MODEL 3400, Q MARK, RAYWALL, OR APPROVED EQUAL COMPLETE WITH UL LABEL.

230508 MANUAL AND MOTOR OPERATED DAMPERS

A. MANUAL AND MOTOR OPERATED DAMPERS SHALL BE LOW LEAKAGE TYPE PROVIDED IN THE DUCT SYSTEMS AS INDICATED ON THE DRAWINGS IN ACCORDANCE WITH NFPA STANDARD NO. 90A AND SHALL CONFORM TO NFPA STANDARD NO. 90A FOR MATERIALS AND WORKMANSHIP.

B. DAMPERS SHALL BE TAMCO SERIES 1500 SW OR APPROVED EQUAL BY RUSKIN, POTTORFF, PREFCO, AIR BALANCE, OR UNITED ENERTECH.

C. DAMPER FRAME SHALL BE EXTRUDED ALUMINUM NOT LESS THAN 0.080" IN THICKNESS, 4" DEEP X 1", WITH DUCT MOUNTING FLANGES ON BOTH SIDES OF FRAME. FRAME SHALL BE CLEAR ANODIZED TO A MINIMUM THICKNESS OF 0.7 MIL (18 MICRONS) DEEP. FRAME SHALL BE ASSEMBLED USING STAINLESS STEEL SCREWS. WELDED FRAMES SHALL NOT BE ACCEPTABLE.

D. BLADES SHALL BE MAXIMUM 6" DEEP EXTRUDED ALUMINUM AIR-FOIL PROFILES WITH A MINIMUM WALL THICKNESS OF 0.06", CLEAR ANODIZED TO A MINIMUM THICKNESS OF 0.7 MIL (18 MICRONS) DEEP. ALUMINUM END CAPS SHALL BE PRESS FITTED TO BLADE ENDS TO SEAL HOLLOW INTERIOR AND REDUCE AIR LEAKAGE RATES. END CAPS SHALL BE CLEAR ANODIZED. ALL BLADES SHALL BE SYMMETRICALLY PIVOTED.

E. BLADE AND FRAME SEALS SHALL BE EXTRUDED SILICONE, SECURED IN AN INTEGRAL SLOT WITHIN THE ALUMINUM BLADE AND FRAME EXTRUSIONS MECHANICALLY FASTENED TO PREVENT SHRINKAGE AND MOVEMENT OVER THE LIFE OF THE DAMPER. ADHESIVE OR CLIP-ON TYPE BLADE SEALS OR METALLIC COMPRESSION TYPE JAMB SEALS WILL NOT BE APPROVED.

F. HEXAGONAL CONTROL SHAFT SHALL BE $^{7}/_{16}$", SHALL HAVE AN ADJUSTABLE LENGTH, AND SHALL BE AN INTEGRAL PART OF THE BLADE AXLE. A FIELD-APPLIED CONTROL SHAFT SHALL NOT BE ACCEPTABLE. ALL PARTS SHALL BE STAINLESS STEEL.

G. LINKAGE HARDWARE SHALL BE ALUMINUM AND STAINLESS STEEL, INSTALLED IN THE FRAME SIDE, OUT OF THE AIRSTREAM, AND ACCESSIBLE AFTER INSTALLATION. LINKAGE HARDWARE SHALL BE COMPLETE WITH STAINLESS STEEL CUP-POINT TRUNNION SCREWS TO PREVENT LINKAGE SLIPPAGE AND A CELCON BEARING BETWEEN MOVING PARTS TO REDUCE WEAR AND INCREASE LONGEVITY. LINKAGE THAT CONSISTS OF METAL RUBBING METAL WILL NOT BE APPROVED.

H. WHERE EXPOSED ON A LOUVER, PROVIDE ALUMINUM GUARDS OVER DAMPERS OF SIZE TO PROTECT BLADES WHEN THEY ARE IN FULLY OPEN POSITION.

I. DAMPERS SHALL BE AMCA RATED FOR LEAKAGE CLASS 1A FOR MAXIMUM LEAKAGE AT 1.0 IN W.G. SHALL BE 3 CFM/SF OF DAMPER AREA IN ACCORDANCE WITH AMCA STANDARD 500-D.

J. MOTOR OPERATED DAMPERS SHALL HAVE 120V ELECTRIC OPERATORS AND SHALL FAIL WHEN NOT POWERED TO POSITION INDICATED ON THE DRAWINGS.

230509 CONTROLS

A. FURNISH AND INSTALL AN ELECTRIC CONTROL SYSTEM TO FULFILL THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. THE SYSTEMS SHALL INCLUDE ALL NECESSARY LABOR, ELECTRICAL WIRING, ALL EQUIPMENT, UNLESS SPECIFIED TO THE CONTRARY, SHALL BE FULLY PROPORTIONAL AND SHALL BE THE PRODUCT OF THE CONTROL MANUFACTURER.

B. ALL CONTROL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH THE ELECTRICAL DRAWINGS AND DIVISION 26 ELECTRICAL SPECIFICATIONS.

C. AFTER COMPLETION AND TESTING OF THE INSTALLATION, REGULATE, ADJUST AND SERVICE AS NECESSARY ALL CONTROL DEVICES IN THE SYSTEMS, PLACING EACH ITEM IN COMPLETE AND PROPER OPERATION.

230510 ELECTRICAL

A. ELECTRICAL CIRCUIT SIZES ARE BASED ON CAPACITIES OF THE DRAWINGS AND IT SHALL BE THE RESPONSIBILITY OF HEATING AND AIR CONDITIONING CONTRACTOR TO CHANGE ANY AND ALL ELECTRICAL WORK IN ORDER TO FIT MECHANICAL EQUIPMENT. HEATING AND AIR CONDITIONING CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR TO ASSURE THAT ALL UNITS ARE PROPERLY CONNECTED AND SHALL CHECK WIRING PRIOR TO STARTING UNITS. ANY DAMAGE TO UNITS RESULTING FROM IMPROPER WIRING OR CONNECTIONS SHALL BE THE RESPONSIBILITY OF HEATING AND AIR CONDITIONING CONTRACTOR. FLEXIBLE ELECTRICAL CONDUITS SHALL BE 18 INCHES IN LENGTH MAXIMUM. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH CODES HAVING JURISDICTION, THE ELECTRICAL DRAWINGS, AND DIVISION 26 ELECTRICAL SPECIFICATIONS.

230511 DUCTWORK

A. MECHANICAL DRAWINGS ARE SCHEMATIC ONLY AND DO NOT SHOW ALL OFFSETS ETC. REQUIRED. HEATING AND AIR CONDITIONING CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE COMPLETE CONTRACT DOCUMENTS AND SITE CONDITIONS BEFORE FABRICATING DUCTWORK. ANY CHANGES TO DUCTWORK FOUND NECESSARY TO ACCOMMODATE THE CONDITIONS AT THE BUILDING SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER, AND AS DIRECTED BY THE ENGINEER.

B. ALL DIMENSIONS ON THE DRAWINGS ARE FREE INSIDE DIMENSIONS.

C. DUCTWORK SHALL BE OF ALUMINUM WITH STANDARD GAUGES AND CONSTRUCTION IN ACCORDANCE WITH THE RECOMMENDATIONS OF SMACNA HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE, THIRD ADDITION, 2005 FOR APPROPRIATE PRESSURE CLASS. DUCTWORK SHALL BE CROSS BROKEN ON ALL SIDES AND SHALL BE SUPPORTED AT BOTH ENDS OF EACH JOINT AND AT 10'-0" INTERVALS MAXIMUM WITH ANGLES SUPPORTED BY ALUMINUM THREADED RODS OF SIZES AND SPACING IN ACCORDANCE WITH SMACNA. DUCTWORK TO BE EXPOSED SHALL BE CONSTRUCTED IN A FIRST CLASS, NEAT, PROFESSIONAL MANNER AND EXPOSED DUCTWORK WITH EXCESSIVE HAMMER MARKS SHALL BE REPLACED.

D. ALL COMPONENTS OF THE AIR DISTRIBUTION SYSTEM SHALL BE MECHANICALLY FASTENED WITH AT LEAST THREE EQUALLY SPACED SHEET METAL SCREWS WITH SCREWS NOT MORE THAN ON 12" CENTERS. ALL DUCT JOINTS SHALL BE SEALED IN ACCORDANCE WITH SMACNA SEAL CLASS A BEFORE INSULATION IS APPLIED. ALL SEALANTS SHALL MEET THE PROVISIONS OF UL181.

230512 TESTING AND BALANCING

A. TESTING AND BALANCING OF THE HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS SHALL BE PERFORMED BY AN AABC CERTIFIED TEST AND BALANCE COMPANY AS A SUBCONTRACTOR TO THE HEATING AND AIR CONDITIONING CONTRACTOR. ALL INSTRUMENTS USED SHALL BE ACCURATELY CALIBRATED AND IN GOOD WORKING ORDER. THE TESTS SHALL BE IN STRICT ACCORDANCE TO THE STANDARDS OF AABC.

B. AIR BALANCE AND TESTING SHALL NOT BEGIN UNTIL THE SYSTEMS HAVE BEEN INSTALLED IN FULL WORKING ORDER AND SHOWN TO BE OPERATING SATISFACTORY ON BOTH HEATING AND COOLING. THE ARCHITECT AND ENGINEER SHALL BE GIVEN TWO WEEKS ADVANCE NOTICE OF WHEN TESTS ARE TO BE MADE.

C. UPON COMPLETION OF THE HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS, THE TEST AND BALANCE CONTRACTOR SHALL COMPILE THE TEST DATA AND SUBMIT THE COMPLETED TEST DATA TO THE ENGINEER FOR EVALUATION AND APPROVAL.

D. TESTING PROCEDURE (AIR):

1. TEST AND RECORD MOTOR FULL LOAD AMPERES ON ALL MOTORS.
2. EXHAUST FANS SHALL BE TESTED AND BALANCED FOR THE REQUIREMENT AS SHOWN ON THE PLANS. RECORD ALL DATA.
3. THE HEATING AND AIR CONDITIONING CONTRACTOR SHALL MAKE ANY CHANGES IN THE PULLEYS, BELTS, FILTERS, DAMPERS, OR VALVES NECESSARY OR AS RECOMMENDED BY THE ENGINEER FOR CORRECT BALANCE AT NO ADDITIONAL COST TO THE OWNER.

230513 AS BUILT DRAWINGS

THE HEATING AND AIR CONDITIONING CONTRACTOR SHALL MAINTAIN "DURING THE COURSE OF THE WORK" A SET OF DRAWINGS MARKED UP TO SHOW THE WORK AS INSTALLED, INCLUDING DIMENSIONS TO INDICATED LOCATIONS AND ELEVATIONS OF BURIED WORK. UPON COMPLETION OF THE WORK, RETURN THIS SET OF DRAWINGS TO THE ARCHITECT.

230514 INSTRUCTIONS/TRAINING

THE HEATING AND AIR CONDITIONING CONTRACTOR SHALL GIVE AN INSTRUCTION AND TRAINING PERIOD IN THE OPERATION OF THE APPARATUS TO THE PERSONS WHO WILL BE IN CHARGE OF THE SYSTEM.

230515 GUARANTEE

THE HEATING AND AIR CONDITIONING CONTRACTOR SHALL GUARANTEE THE ENTIRE HEATING AND AIR CONDITIONING SYSTEM SUBJECT TO THE GENERAL CONDITIONS OF THE PROJECT.

END OF SECTION 230500

GENERAL NOTES:

1. HVAC CONTRACTOR SHALL FIELD VERIFY ALL RELEVANT DIMENSIONS, CLEARANCES, LOCATIONS AND ELEVATIONS PRIOR TO ORDERING, FABRICATION, AND INSTALLATION OF HIS WORK. DISCREPANCIES OR INTERFERENCE'S SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER AS SOON AS POSSIBLE. THE DRAWINGS DIAGRAMMATICALLY INDICATE THE GENERAL LOCATION OF DUCTS, PIPING AND EQUIPMENT AND DO NOT SHOW ALL SUPPORTS, OFFSETS, FITTINGS, BOLTS, CONNECTIONS, ETC. REQUIRED FOR A COMPLETE SYSTEM. WHILE THE DRAWINGS ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE, IF IT IS FOUND NECESSARY TO CHANGE THE LOCATION OF ANY WORK TO ACCOMMODATE THE CONDITIONS AT THE BUILDING, SUCH CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER, AND AS DIRECTED BY THE ARCHITECT/ENGINEER.
2. HVAC CONTRACTOR/ CONTROLS CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR PROVISIONS OF POWER TO CONTROL SYSTEM NOT SHOWN ON M OR E DRAWINGS. ELECTRICAL CONTRACTOR WILL PROVIDE POWER TO GENERAL POINTS, JUNCTION BOXES, ETC., AND POWER WIRING FROM THOSE POINTS TO EQUIPMENT SHALL BE BY THE HVAC CONTRACTOR/CONTROL CONTRACTOR.
3. ALL THERMOSTATS AND SWITCHES FOR MECHANICAL SYSTEMS SHALL BE MOUNTED 44" AFF.

LEGEND

	RECTANGULAR DUCTWORK
TS C	COOLING THERMOSTAT
1	KEYED NOTE SYMBOL
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
MD	MANUAL DAMPER
MOD	MOTOR OPERATED DAMPER
AFF	ABOVE FINISHED FLOOR
FIN. FL.	FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
CONC.	CONCRETE
CONT.	CONTINUATION
CONTR.	CONTRACTOR

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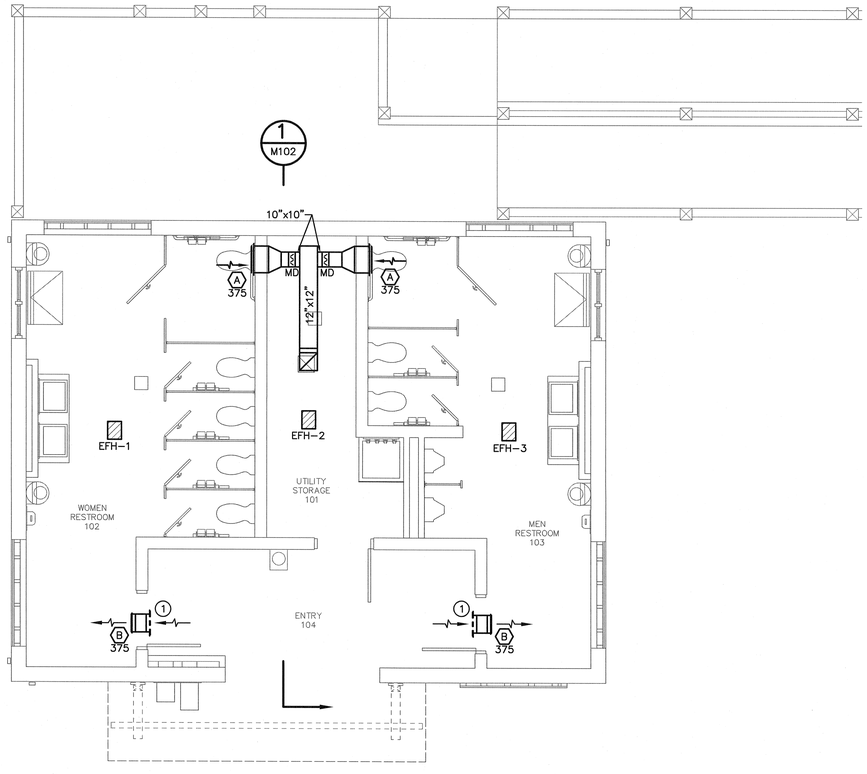
MECHANICAL LEGEND, SCHEDULES & DETAILS

NORTH CAROLINA PROFESSIONAL SEAL 17655 ENGINEER KENNETH LYNCH

JOB NO: 2019-3549-00
DATE: 11.13.24

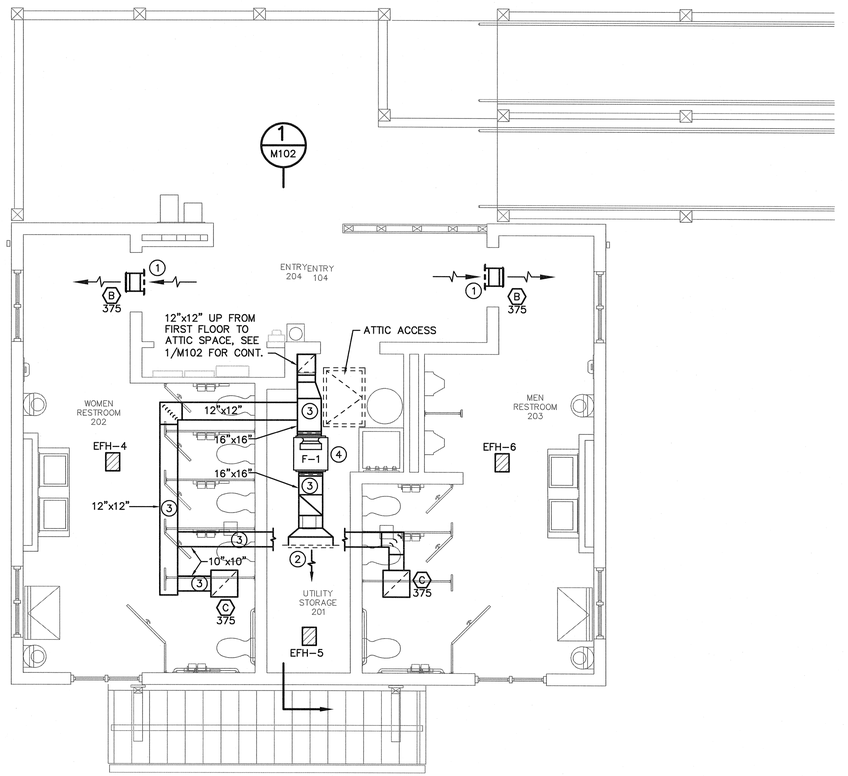
M100

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1 M101 MECHANICAL FIRST FLOOR
SCALE: 1/4" = 1'-0"

GRAPHIC SCALE
4' 2' 0 4' 8'
SCALE: 1/4"=1'-0"



2 M101 MECHANICAL SECOND FLOOR
SCALE: 1/4" = 1'-0"

GRAPHIC SCALE
4' 2' 0 4' 8'
SCALE: 1/4"=1'-0"

POWER VENTILATOR SCHEDULE

SYMBOL	CFM	ESP	RPM	TIP SPEED	ELECTRICAL		TYPE	DRIVE	CONTROL	REMARKS
					HP	VOLTAGE				
F-1	1500	0.50"	1085	4125	1/3	115V-1ø	INLINE CENTRIFUGAL	DIRECT	(1)	

(1) START/STOP FAN BASED ON (1) OCCUPANCY/VACANCY SENSOR IN EACH SPACE, ALL FOUR CONNECTED IN PARALLEL.

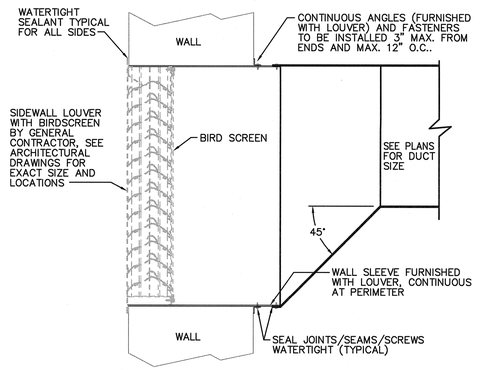
ELECTRIC FAN HEATER SCHEDULE

SYMBOL	CFM	BTU/HR	ELECTRICAL		MOUNTING HEIGHT	REMARKS
			WATTS	VOLTAGE & PHASE		
EFH-1	175	5120	1500	120V-1ø	(1)	WOMEN RESTROOM 102
EFH-2	75	2560	750	120V-1ø	(1)	UTILITY STORAGE 101
EFH-3	175	5120	1500	120V-1ø	(1)	MEN RESTROOM 103
EFH-4	175	5120	1500	120V-1ø	(1)	WOMEN RESTROOM 202
EFH-5	75	2560	750	120V-1ø	(1)	UTILITY STORAGE 201
EFH-6	175	5120	1500	120V-1ø	(1)	MEN RESTROOM 203

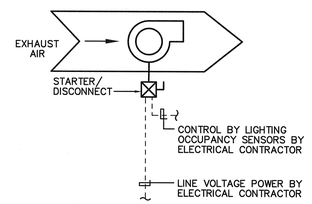
(1) SURFACE MOUNT AT CEILING.

REGISTER, GRILLE & DIFFUSER SCHEDULE

SYMBOL	CFM	NECK SIZE	TYPE	RUNOUT SIZE	REMARKS
⟨A⟩	325-550	18"X12"	SIDEWALL EXHAUST AIR REGISTER	–	
⟨B⟩	325-550	12"X12"	SIDEWALL EXHAUST AIR REGISTER	–	
⟨C⟩	225-500	12"X12"	EXHAUST REGISTER	–	



A M101 TYPICAL WALL LOUVER DETAIL
NO SCALE



B M101 EXHAUST FAN
NO SCALE

KEYED NOTES: (THIS SHEET ONLY)

1. 12"x12" SIDEWALL LOUVER BY GENERAL CONTRACTOR, SEE ARCHITECTURAL DRAWING FOR LOCATION. MECH CONTRACTOR TO DUCT BETWEEN LOUVERS AIRTIGHT.
2. 30"x18" SIDEWALL EXHAUST LOUVER BY GENERAL CONTRACTOR IN DORMER ABOVE ROOF, SEE ARCHITECTURAL DRAWINGS. MECH CONTR TO PROVIDE AND CONNECT PLENUM BOX TO BACKSIDE OF LOUVER WEATHERTIGHT PER DETAIL A/M101 (TYP.)
3. ROUTE DUCTWORK IN ATTIC SPACE.
4. INLINE POWER VENTILATOR INSTALLED ON VIBRATION ISOLATORS ON SERVICE PLATFORM IN ATTIC SPACE.

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MECHANICAL PLANS



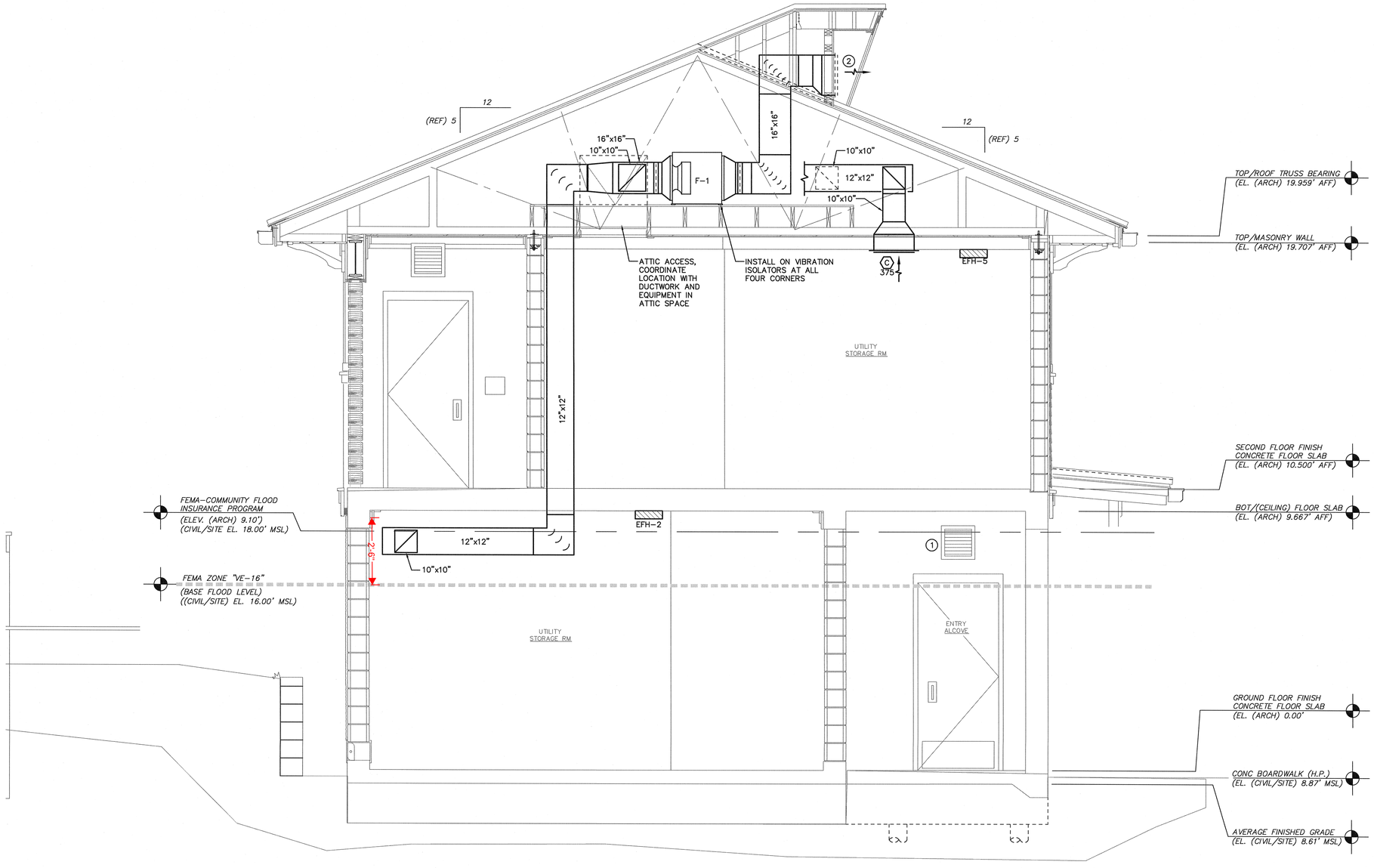
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M101

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JOB # 24030



1 / M102 MECHANICAL SECTION
SCALE: 1/2" = 1'-0"

KEYED NOTES: (THIS SHEET ONLY)

1. 12"x12" SIDEWALL LOUVER BY GENERAL CONTRACTOR, SEE ARCHITECTURAL DRAWING FOR LOCATION. MECH CONTRACTOR TO DUCT BETWEEN LOUVERS AIRTIGHT.
2. 30"x18" SIDEWALL EXHAUST LOUVER BY GENERAL CONTRACTOR IN DORMER ABOVE ROOF. SEE ARCHITECTURAL DRAWINGS. MECH CONTR TO PROVIDE AND CONNECT PLENUM BOX TO BACKSIDE OF LOUVER WEATHERTIGHT, SEE DETAIL A/M101 (TYP.)

GRAPHIC SCALE
2' 1' 0 2' 4'
SCALE: 1/2"=1'-0"

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MECHANICAL SECTION

NORTH CAROLINA PROFESSIONAL SEAL 17655 ENGINEER KENNETH LYCH

JOB NO: 2019-3549-00
DATE: 11.13.24

M102

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ELECTRICAL NOTES

1. ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.
2. PERMITS FOR ELECTRICAL WORK SHALL BE OBTAINED BY AND PAID BY THE ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL PAY FOR ANY ADDITIONAL FEES FOR INSPECTIONS, TESTS, AND OTHER SERVICES AS REQUIRED FOR THE COMPLETION OF THE WORK.
3. THE ELECTRICAL CONTRACTOR AND ANY OF HIS SUBCONTRACTORS SHALL VISIT THE PROJECT SITE TO WITNESS EXISTING CONDITIONS AND BECOME FAMILIAR WITH THE SCOPE OF THE WORK REQUIRED PRIOR TO SUBMITTING BIDS. WORK REQUIRED BY EXISTING JOB CONDITIONS NOT INDICATED ON DRAWINGS SHALL BE INCLUDED IN THE BID.
4. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO RESULT IN THE PRODUCTION OF A COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEM. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MATERIAL, LABOR, EQUIPMENT, AND OTHER SERVICES AS NECESSARY TO COMPLETE THE WORK.
5. DISCREPANCIES IN THE DRAWINGS AND SPECIFICATIONS THAT WILL AFFECT THE WORK SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO SUBMITTING BIDS.
6. UNLESS NOTED OTHERWISE, ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND INCLUDE A 3RD PARTY LABEL (I.E.: UL, CSA, ETL, ETC.) LISTING APPROVAL FOR ITS INSTALLED APPLICATION.
7. REVIEW PLANS OF OTHER TRADES FOR COORDINATION OF WORK AND FOR RELATED AND ADJOINING WORK.
8. REVIEW COMPLETE PLAN SET FOR CONSTRUCTION TYPE, FINISHES, HEADROOM, ROOF FINISHES, CEILINGS, ETC. REVIEW COMPLETE PLAN SET FOR PROJECT PHASING AND STAGING. REVIEW COMPLETE PLAN SET FOR WORK COVERED BY ALTERNATE BID ITEMS.
9. COORDINATE DEVICE AND EQUIPMENT MOUNTING HEIGHTS WITH OTHER DISCIPLINE DRAWINGS, DETAILS & SUBMITTALS, EQUIPMENT DETAILS & SUBMITTALS, ETC.
10. PENETRATIONS OF EXTERIOR BUILDING WALLS, FLOORS, OR ROOFS SHALL BE SEALED WATERTIGHT. INTERIORS OF RACEWAY PENETRATIONS THROUGH EXTERIOR WALLS SHALL BE SEALED WITH NON-HARDENING ELECTRICAL PUTTY.
11. COORDINATE PRECISE LOCATION OF HVAC EQUIPMENT WITH THE MECHANICAL CONTRACTOR.
12. PROVIDE NATIONAL ELECTRICAL CODE REQUIRED CLEARANCES FOR ALL ELECTRICAL EQUIPMENT. COORDINATE RESOLUTION OF CONFLICTS WITH OTHER TRADES.
13. RECEPTACLES, SWITCHES, SHALL BE FLUSH MOUNTED IN FINISHED SPACES.
14. CONDUITS/CONDUCTORS SHALL BE INSTALLED CONCEALED WITHIN WALL UNLESS OTHERWISE NOTED.
15. PRIOR TO ORDERING LIGHT FIXTURES, CONTRACTOR SHALL VERIFY TYPE OF CEILING OR WALL BY REVIEW OF ARCHITECTURAL FINISH SCHEDULES AND PROVIDE SUITABLE TRIM AND APPURTENANCES TO MOUNT FIXTURES IN TYPE OF CEILING OR WALL INDICATED.
16. NO MOUNTING HARDWARE SHALL BE ATTACHED TO ROOF DECKS. ATTACHMENTS SHALL BE MADE TO THE ROOF SUPPORTING STRUCTURE.
17. PANEL BUS MATERIAL: COPPER.
18. SHARED NEUTRAL CONDUCTORS SHALL NOT BE USED UNLESS SPECIFICALLY INDICATED SO ON HOMERUN CIRCUITRY DESIGNATIONS.
19. PANEL BREAKER CONFIGURATIONS SHALL BE INSTALLED AS INDICATED ON THE PANEL SCHEDULES OR AS NOTED. BREAKER POSITION REVISIONS WILL NOT BE ACCEPTED UNLESS APPROVED IN WRITING BY THE ENGINEER.
20. LOAD CIRCUITS SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS. CIRCUITRY REVISIONS WILL NOT BE ACCEPTED UNLESS APPROVED IN WRITING BY THE ENGINEER.

ABBREVIATIONS

ADA	AMERICAN DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPS INTERRUPTING CAPABILITY
BKR	BREAKER
C	CONDUIT
C/B	CIRCUIT BREAKER
CLG	CEILING
CKT	CIRCUIT
CU	COPPER
DIA	DIAMETER
DWG	DRAWING
EBB	ELECTRIC BASEBOARD HEATER
ENCL	ENCLOSED
EXSTG	EXISTING
G	EQUIPMENT GROUND
GEC	GROUNDING ELECTRODE CONDUCTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFEP	GROUND FAULT EQUIPMENT PROTECTOR
GFI	GROUND FAULT INTERRUPTER
K	KILO (THOUSAND)
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
LTS	LIGHTS
MCB	MAIN CIRCUIT BREAKER
MFR	MANUFACTURER
MLO	MAIN LUG ONLY
N/A	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
NTS	NOT TO SCALE
P	PHASE OR POLE
PH	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE
REC	RECEPTACLE
RECEPT	RECEPTACLE
REQ.	REQUIRED
S.S.	STAINLESS STEEL
SYS	SYSTEM
S/N	SOLID NEUTRAL
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VOLT-AMPS
W	WATTS
W	WIRE
W/	WITH
WP	WEATHERPROOF

WARNING

Maximum Available Fault Current:
9.897 Symmetrical RMS Amperes L-L
Date: September 4, 2024
Based on :

Utility Transformer:	75 kVA (Maxiumum)
Utility Transformer:	1.5% Impedance (Minimum)
Service Feeder:	#500 (Maximum) Copper
Service Feeder Length:	130' (Minimum)

NOTE
THE CONTRACTOR SHALL OBTAIN INSTALLED SERVICE TRANSFORMER DATA AND AVAILABLE FAULT CURRENT DATA FROM THE UTILITY COMPANY. FORWARD INFORMATION TO THE ENGINEER FOR ASSESSMENT OF REVISIONS TO THE LABEL DATA.

A / E001 FAULT CURRENT LABEL FOR SERVICE EQUIPMENT
NO SCALE

MISC. ELECTRICAL SYMBOL LEGEND

- EQUIPMENT CONNECTION
- PANELBOARD, SEE PANEL SCHEDULE
- GROUND ROD, 3/4" X 10' COPPER CLAD. WHERE TWO RODS ARE INDICATED, SPACE A MINIMUM OF 22' APART.
- HOMERUN DESIGNATION, #12 CONDUCTORS UNLESS NOTED OTHERWISE
  - EQUIPMENT GROUND CONDUCTOR
  - PHASE CONDUCTOR
  - NEUTRAL CONDUCTOR
- A / E501 — LETTER INDICATES ELEVATION OR DETAIL; NUMBER INDICATES PLAN OR SECTION; SHEET NUMBER WHERE PLAN, SECTION, ELEVATION OR DETAIL IS DRAWN

APPENDIX B, BUILDING CODE SUMMARY
ELECTRICAL SUMMARY

METHOD OF COMPLIANCE
- ENERGY CODE: ☒ PRESCRIPTIVE ☐ PERFORMANCE
- ASHRAE 90.1: ☐ PRESCRIPTIVE ☐ PERFORMANCE

LIGHTING SCHEDULE
Lamp Type Required in Fixtures
Number of Lamps in Fixtures
Ballast Types Used in Fixtures
Number of Ballasts Used in Fixtures
Total Wattage per Fixture
→ SEE LIGHT FIXTURE / LUMINAIRE SCHEDULE

TOTAL WATTAGE SPECIFIED VERSUS ALLOWED

Interior Specified:	**860 Watts**	Exterior Specified:	**300 Watts**
Interior Allowed:	**1415 Watts**	Exterior Allowed:	**1941 Watts**

ADDITIONAL METHOD OF COMPLIANCE:
- ☐ 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

DESIGNER STATEMENT

To the best of my knowledge and belief, the design of this building complies with the electrical systems and equipment requirements of the North Carolina State Building Code, Section 406 of the North Carolina Energy Conservation Code.

SIGNED: Mark A. Ciarrocca
NAME: Mark A. Ciarrocca, P.E.
TITLE: Engineer

SWITCH LEGEND

SYMBOL	DESCRIPTION	NOTES
OS	OCCUPANCY SENSOR, LOW VOLTAGE, DUAL TECHNOLOGY; CEILING MTD	INCORPORATE POWER PACK FOR CIRCUITRY SWITCHING, SEE WIRING DIAGRAMS
$	TOGGLE SWITCH, SINGLE POLE	RATED FOR VOLTAGE WHERE APPLIED, 20A; MTD 42" AFF UNO; WHERE SHOWN PAIRED, PROVIDE DUAL LEVEL LIGHTING WHERE INDICATED. WHERE USED AS AN EQUIPMENT DISCONNECT, PROVIDE LOCKABLE TYPE COVER.

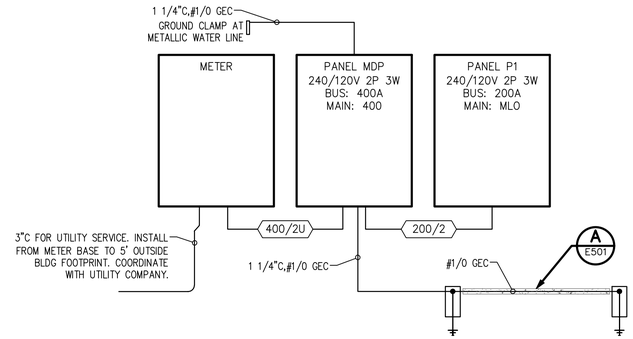
RECEPTACLE LEGEND

SYMBOL	NEMA	VOLTS	DESCRIPTION
G	5-20R	120V 1P 2W	DUPLEX GFCI, MTD 6" ABOVE COUNTER OR 6" ABOVE BACKSPLASH IF APPLICABLE. CONTRACTOR TO COORDINATE WITH ARCHITECTURAL BACKSPLASH DETAILS.
G	5-20R	120V 1P 2W	DUPLEX GFCI, MTD 18" AFF UNO

FEEDER SCHEDULE

ID	FEEDER AMPS	CONDUIT AND FEEDER	FEEDING THESE DEVICES
200/2	200	2"C,2#3/0,#3/0N,#6G	P1
400/2U	400	3"C,2#500kcmil,#500kcmil N	MDP

SIZING METHOD: COPPER, 60°C #12 THROUGH #1, 75°C #1/0 AND ABOVE



B / E001 POWER RISER DIAGRAM
NO SCALE

LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	DESCRIPTION	LAMP	BALLAST	VOLTS	MOUNTING	MANUFACTURER / MODEL	NOTES	CALLOUT
EGL		EMERGENCY EGRESS, BATTERY	(2) 4W MR 16 LED	BATTERY	120V 1P 2W	WALL; MTD 8'-0" AFF	EMERGILITE #COMPACT PREMIER SERIES BEGHELLI #ECCO LUNA LED SERIES LIGHTALARMS #COMPACT GRANDE SERIES	CONNECT TO NEAREST UNSWITCHED LIGHT CIRCUIT IN SAME SPACE. THESE FIXTURES ARE NOT TAGGED WITH "EGL" ON THE DRAWINGS; ONLY THE SYMBOL IS USED.	EGL
IM		4' INDUSTRIAL	(1) 44W LED	LED DRIVER	120V 1P 2W	PENDANT/SURFACE	COLUMBIA #LCL SERIES DAYBRITE #FSS SERIES METALUX #SNLED SERIES	5300 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. WIRE GUARD. FROSTED LENS.	IM
IV2		INVERTER, EGRESS LIGHTING	N/A	BATTERY	120V 1P 2W	SURFACE	EMERGI-LITE #EMIU SERIES BODINE #ELI-S SERIES LIGHTALARMS #LMIU SERIES	INVERTER FOR BATTERY BACKUP OF EGRESS LIGHTING; 250W FOR 90 MINUTES (MINIMUM). INCLUDE SELF-DIAGNOSTIC OPTION.	IV2
VR1		4' VANDAL RESISTANT	(1) 40W LED	LED DRIVER	120V 1P 2W	SURFACE	ECLISPE BRUSSELS BU SERIES PRE-APPROVED EQUAL PRE-APPROVED EQUAL	40W MAX, 4700 NOMINAL LUMENS, 4000K, PRISMATIC POLYCARBONATE LENS. DOWN FORWARD DISTRIBUTION. FINISH SELECTED BY ARCHITECT.	VR1
VR1E		4' VANDAL RESISTANT	(1) 40W LED	LED DRIVER	120V 1P 2W	SURFACE	ECLISPE BRUSSELS BU SERIES PRE-APPROVED EQUAL PRE-APPROVED EQUAL	40W MAX, 4700 NOMINAL LUMENS, 4000K, PRISMATIC POLYCARBONATE LENS. DOWN FORWARD DISTRIBUTION. FINISH SELECTED BY ARCHITECT. BATTERY BACKUP BY REMOTE INVERTER.	VR1E
VR2		4' VANDAL RESISTANT	(1) 40W LED	LED DRIVER	120V 1P 2W	SURFACE	ECLISPE BRUSSELS BU SERIES PRE-APPROVED EQUAL PRE-APPROVED EQUAL	40W MAX, 4700 NOMINAL LUMENS, 4000K, DIRECT/INDIRECT, PRISMATIC POLYCARBONATE LENS. FINISH SELECTED BY ARCHITECT. COORDINATE MOUNTING HEIGHT W/ ARCHITECT.	VR2
VR2E		4' VANDAL RESISTANT	(1) 40W LED	LED DRIVER	120V 1P 2W	SURFACE	ECLISPE BRUSSELS BU SERIES PRE-APPROVED EQUAL PRE-APPROVED EQUAL	40W MAX, 4700 NOMINAL LUMENS, 4000K, DIRECT/INDIRECT, PRISMATIC POLYCARBONATE LENS. FINISH SELECTED BY ARCHITECT. COORDINATE MOUNTING HEIGHT W/ ARCHITECT. BATTERY BACKUP BY REMOTE INVERTER.	VR2E
W1E		HALF CYLINDER WALL PACK	(1) 30W LED	LED DRIVER	120V 1P 2W	WALL	HUBBELL #RDI2 SERIES GARDCO #104L SERIES MCGRAW-EDISON #ISC SERIES	3100 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. TYPE IV DISTRIBUTION. FINISH SELECTION BY THE ARCHITECT. MOUNT 2' ABOVE THE 16' FEMA FLOOD ELEVATION. COORDINATE SPECIFIC MOUNTING LOCATION WITH THE ARCHITECT. BATTERY BACKUP BY REMOTE INVERTER.	W1E
W2		HALF CYLINDER WALL PACK	(1) 80W LED	LED DRIVER	120V 1P 2W	WALL	BEACON TRAVERSE DOWNLIGHT SERIES GARDCO PUREFORM PWS SERIES PRE-APPROVED EQUAL	80W MAX, 2400 NOMINAL LUMENS, 1400K AMBER (590nm) OUTPUT, DOWNLIGHT, TYPE IV DISTRIBUTION, DARK SKY CERTIFIED. FINISH SELECTION BY THE ARCHITECT. COORDINATE SPECIFIC MOUNTING LOCATION WITH THE ARCHITECT.	W2
W2E		HALF CYLINDER WALL PACK	(1) 80W LED	LED DRIVER	120V 1P 2W	WALL	BEACON TRAVERSE DOWNLIGHT SERIES GARDCO PUREFORM PWS SERIES PRE-APPROVED EQUAL	8W MAX, 2400 NOMINAL LUMENS, 1400K AMBER (590nm) OUTPUT, DOWNLIGHT, TYPE IV DISTRIBUTION, DARK SKY CERTIFIED. FINISH SELECTION BY THE ARCHITECT. COORDINATE SPECIFIC MOUNTING LOCATION WITH THE ARCHITECT. BATTERY BACKUP BY REMOTE INVERTER.	W2E

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TOWN of CAROLINA BEACH

OWNER ADDRESS:
1121 NORTH LAKE PARK BLVD.
CAROLINA BEACH
NORTH CAROLINA 28428

NO	DESCRIPTION	BY
1	REV1 - ELIMINATE ERCCS & FIRE ALARM SYSTEMS BY FIRE MARSHAL EXCEPTION 11/13/24	MAC

ISSUED FOR CONSTRUCTION

Proposed Public Works Restroom Facility
TOWN of CAROLINA BEACH
PROJECT ADDRESS:
CAROLINA BEACH AVE. SOUTH - PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428

ELECTRICAL
NOTES, LEGENDS, SCHEDULES, RISER

NORTH CAROLINA PROFESSIONAL SEAL 17593 ENGINEER MARK A. CIARROCCA
Digitally signed by Mark A. Ciarrocca
Date: 2024.11.13 11:59:17-05'00'

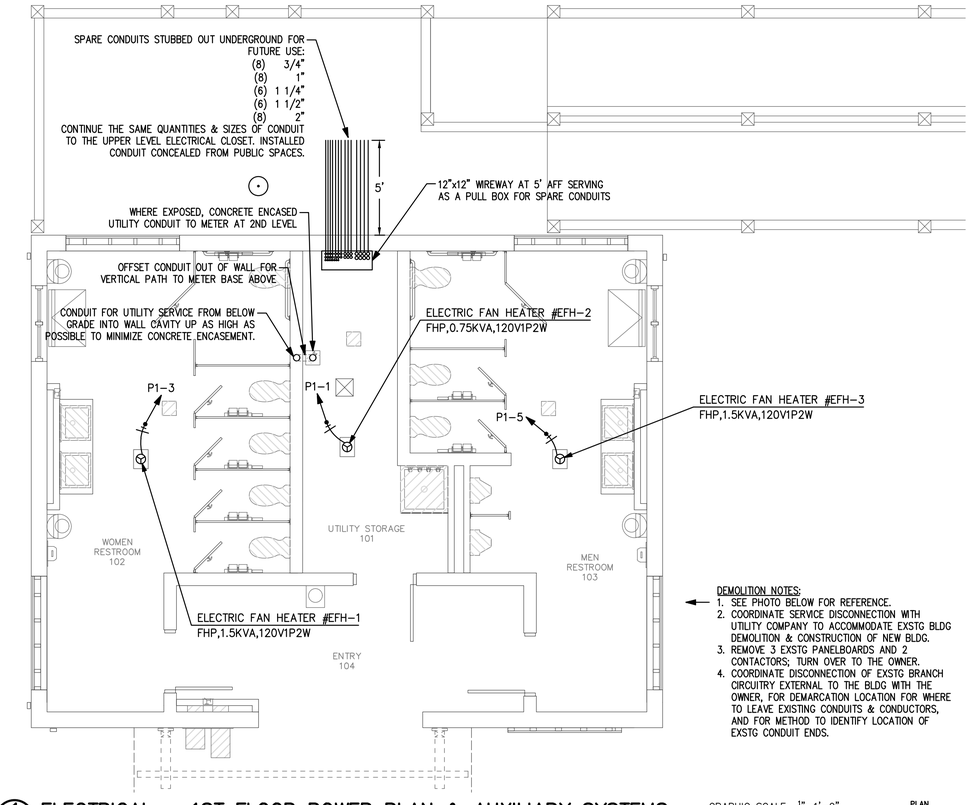
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NC LICENSE# C-1073

JOB # 24030

JOB NO: 2019-3549-00
DATE: 11.13.24

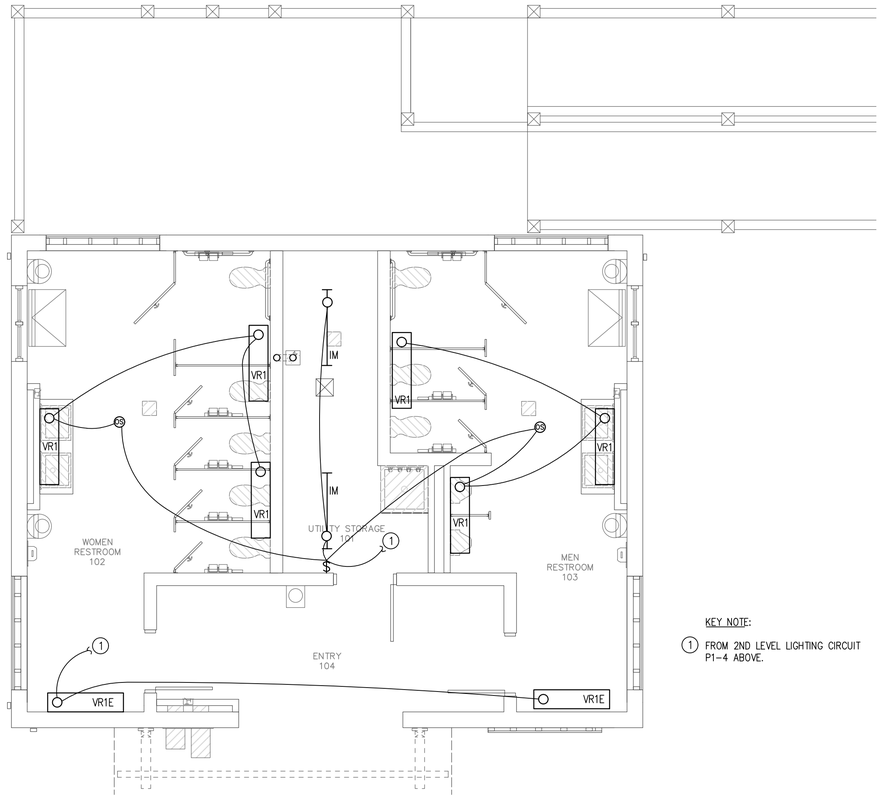
E001



1 E101 ELECTRICAL – 1ST FLOOR POWER PLAN & AUXILIARY SYSTEMS
SCALE: 1/4" = 1'-0"

GRAPHIC SCALE: 1/4"=1'-0"
0 1 2 4 8

PLAN NORTH



2 E101 ELECTRICAL – 1ST FLOOR LIGHTING PLAN
SCALE: 1/4" = 1'-0"

GRAPHIC SCALE: 1/4"=1'-0"
0 1 2 4 8

PLAN NORTH



A E101 EXISTING ELECTRICAL EQUIPMENT PHOTO REFERENCE
SCALE: N/A

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ELECTRICAL
1ST FLOOR PLANS

NORTH CAROLINA PROFESSIONAL SEAL 17593 ENGINEER MARK A. CIARROCCA

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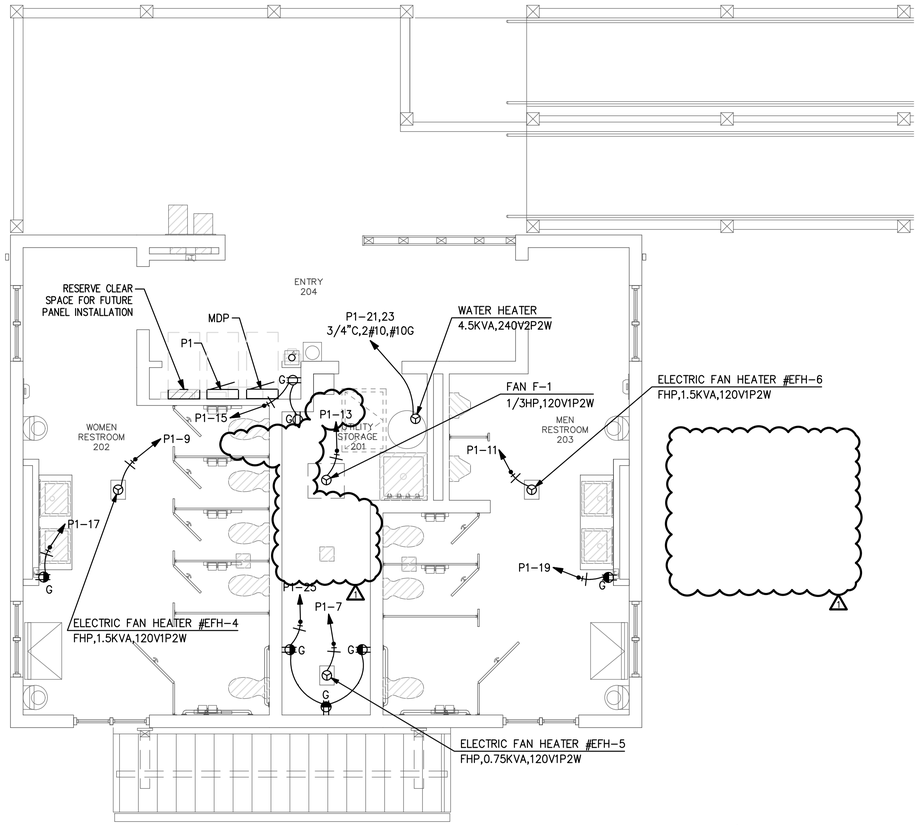
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JOB NO: 2019-3549-00
DATE: 11.13.24

E101

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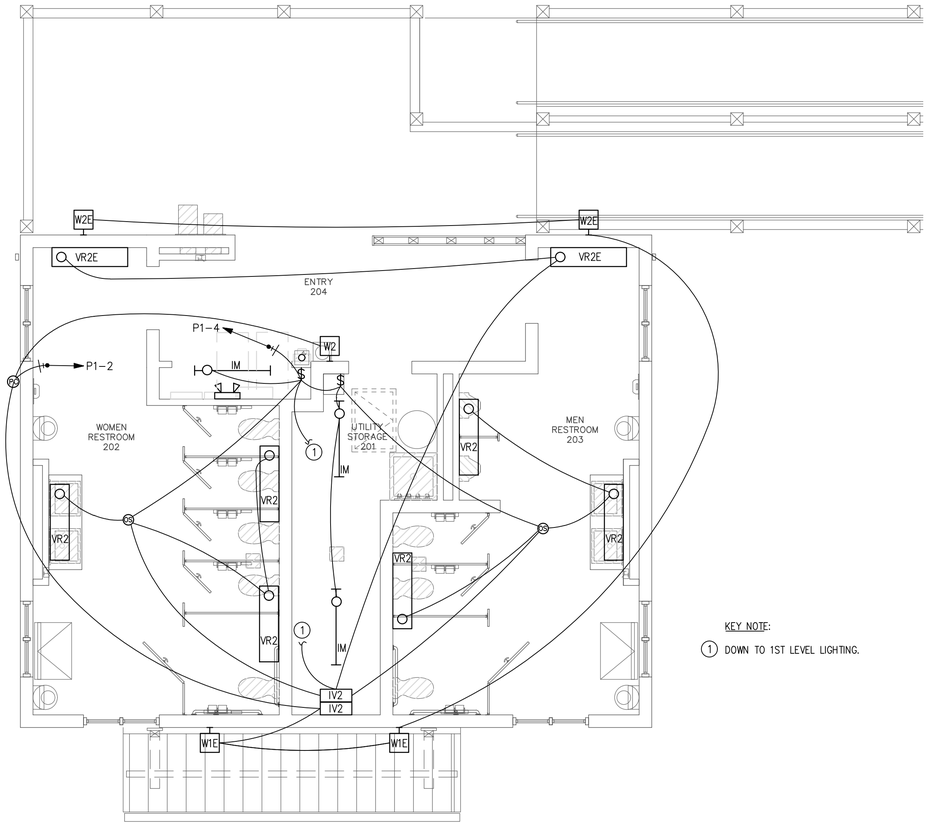


1 E102 ELECTRICAL – 2ND FLOOR POWER & AUXILIARY SYSTEMS PLAN

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

GRAPHIC SCALE: 1/4"=1'-0" (0 1 2 4 8)

PLAN NORTH



2 E102 ELECTRICAL – 2ND FLOOR LIGHTING PLAN

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

GRAPHIC SCALE: 1/4"=1'-0" (0 1 2 4 8)

PLAN NORTH

MDP

ROOM: ELECTRICAL CLOSET | VOLTS: 240/120V 2P 3W | AIC: 10,000
MOUNTING: SURFACE | BUS AMPS: 400 | MAIN BKR: 400
FED FROM: METER | NEUTRAL: 100% | LUGS: STANDARD
NOTE: ULSE

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B
1	-/1	SPACE	0		2	200/2	PANEL P1	8.2	
3	-/1	SPACE		0	4	|			7.8
5	-/1	SPACE	0		6	200/2	SPARE	0	
7	-/1	SPACE		0	8	|			0
9	-/1	SPACE	0		10	-/1	SPACE	0	
11	-/1	SPACE		0	12	-/1	SPACE		0
13	-/1	SPACE	0		14	-/1	SPACE	0	
15	-/1	SPACE		0	16	-/1	SPACE		0
17	-/1	SPACE	0		18	-/1	SPACE	0	
19	-/1	SPACE		0	20	-/1	SPACE		0
21	-/1	SPACE	0		22	-/1	SPACE	0	
23	-/1	SPACE		0	24	-/1	SPACE		0
25	-/1	SPACE	0		26	-/1	SPACE	0	
27	-/1	SPACE		0	28	-/1	SPACE		0
29	-/1	SPACE	0		30	-/1	SPACE	0	
31	-/1	SPACE		0	32	-/1	SPACE		0
33	-/1	SPACE	0		34	-/1	SPACE	0	
35	-/1	SPACE		0	36	-/1	SPACE		0
37	-/1	SPACE	0		38	-/1	SPACE	0	
39	-/1	SPACE		0	40	-/1	SPACE		0
41	-/1	SPACE	0		42	-/1	SPACE	0	
							TOTAL CONNECTED KVA BY PHASE	8.2	7.8
							TOTAL CONNECTED AMPS BY PHASE	68.4	65

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	1.27	1.59	(125%)	RECEPTACLES	1.26	1.26	(50%>10)
LARGEST MOTOR	0.864	0.216	(25%)	CONTINUOUS	4.5	5.63	(125%)
MOTORS	1.46	1.46	(100%)	HEATING	7.5	7.5	(100%)
				TOTAL LOAD		17.7	
				BALANCED LOAD		73.6 A	

P1

ROOM: ELECTRICAL CLOSET | VOLTS: 240/120V 2P 3W | AIC: 10,000
MOUNTING: SURFACE | BUS AMPS: 200 | MAIN BKR: MLO
FED FROM: MDP | NEUTRAL: 100% | LUGS: STANDARD
NOTE:

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	LOAD KVA B
1	20/1	ELECTRIC FAN HEATER #EFH-2	0.85		2	20/1	LTG-WALLPACK	0.319	
3	20/1	ELECTRIC FAN HEATER #EFH-1		1.6	4	20/1	LTG		0.955
5	20/1	ELECTRIC FAN HEATER #EFH-3	1.6		6	20/1	SPARE	0	
7	20/1	ELECTRIC FAN HEATER #EFH-5		0.85	8	20/1	SPARE		0
9	20/1	ELECTRIC FAN HEATER #EFH-4	1.6		10	20/1	SPARE	0	
11	20/1	ELECTRIC FAN HEATER #EFH-6		1.6	12	20/1	SPARE		0
13	20/1	FAN F-1	0.864		14	20/1	SPARE	0	
15	20/1	REC-GFCI		0.36	16	20/1	SPARE		0
17	20/1	REC-GFCI	0.18		18	20/1	SPARE	0	
19	20/1	REC-GFCI		0.18	20	20/1	SPARE		0
21	30/2	WATER HEATER	2.25		22	20/1	SPARE	0	
23	|			2.25	24	20/1	SPARE		0
25	20/1	REC-GFCI	0.54		26	20/1	SPARE	0	
27	20/1	SPARE		0	28	20/1	SPARE		0
29	20/1	SPARE	0		30	20/1	SPARE	0	
31	20/1	SPARE		0	32	20/1	SPARE		0
33	20/1	SPARE	0		34	20/1	SPARE	0	
35	20/1	SPARE		0	36	20/1	SPARE		0
37	20/1	SPARE	0		38	20/1	SPARE	0	
39	20/1	SPARE		0	40	20/1	SPARE		0
41	20/1	SPARE	0		42	20/1	SPARE	0	
							TOTAL CONNECTED KVA BY PHASE	8.2	7.8
							TOTAL CONNECTED AMPS BY PHASE	68.4	65

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
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				TOTAL LOAD		17.7	
				BALANCED LOAD		73.6 A	

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BY	DATE	REV - ELIMINATE ERCSS & FIRE ALARM SYSTEMS BY FIRE MARSHAL EXCEPTION
MAC	11/12/24	1

ISSUED FOR CONSTRUCTION

Proposed Public Works Restroom Facility
TOWN of CAROLINA BEACH
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ELECTRICAL
2ND FLOOR PLANS

NORTH CAROLINA PROFESSIONAL SEAL 17593 ENGINEER MARK A CIARROCCA

Digitally signed by Mark A. Ciarrocca
Date: 2024.11.13 11:59:18-05'00'

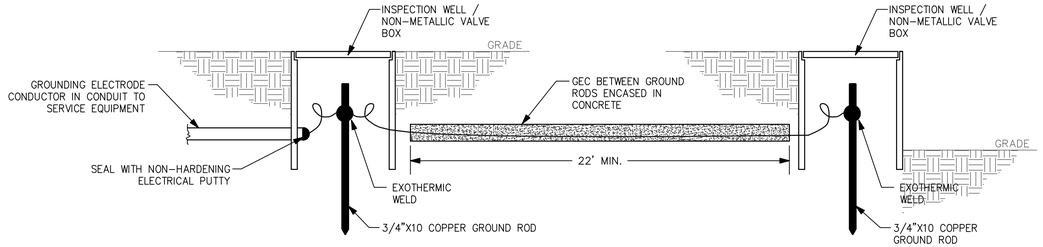
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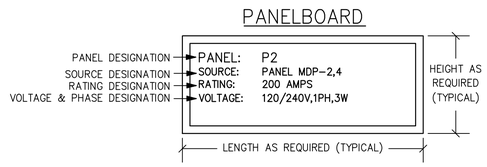
JOB # 24030

JOB NO: 2019-3549-00
DATE: 11.13.24

E102

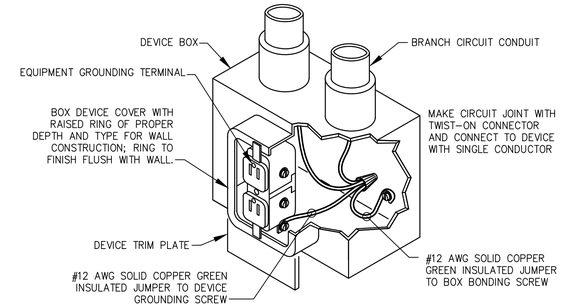


A E501 GROUND ROD & INSPECTION WELL
NO SCALE

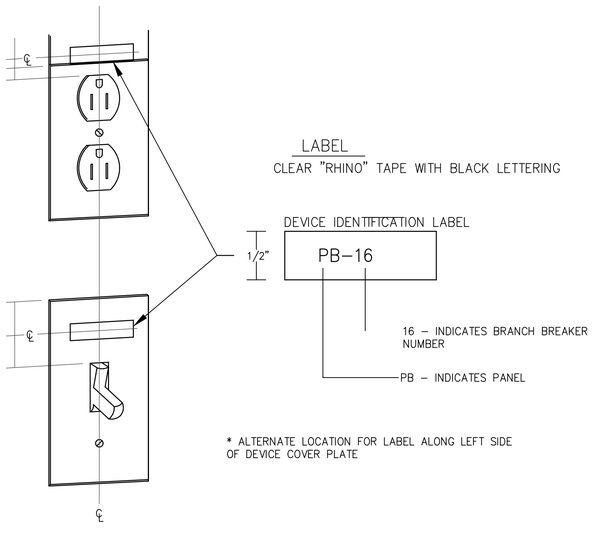


NOTES:
1. ENGRAVED PLASTIC FOR NAMEPLATE.
2. HIGH PERFORMANCE, DOUBLE COATED TAPE WITH ADHESIVE TO ATTACH LABELS.
   DESIGN BASIS: 3M #06383 OR APPROVED EQUIVALENT.
3. 3/8" ENGRAVED LETTERS EQUIPMENT NAME DESIGNATION AND 1/4" ENGRAVED LETTERS ON ALL OTHER DESIGNATIONS.

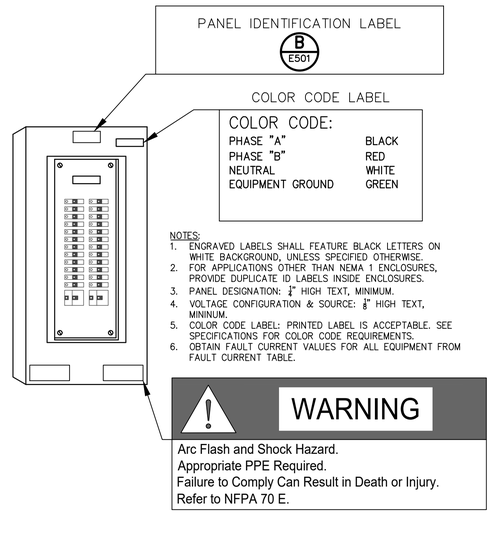
B E501 TYPICAL NAMEPLATE DETAILS
NO SCALE



C E501 OUTLET GROUNDING DETAIL
SCALE: N/A

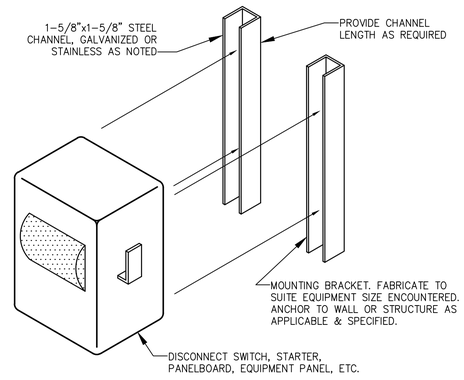


D E501 WIRING DEVICE IDENTIFICATION LABEL

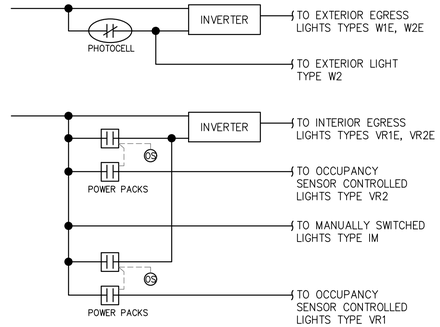


NOTES:
1. ENGRAVED LABELS SHALL FEATURE BLACK LETTERS ON WHITE BACKGROUND, UNLESS SPECIFIED OTHERWISE.
2. FOR APPLICATIONS OTHER THAN NEMA 1 ENCLOSURES, PROVIDE DUPLICATE ID LABELS INSIDE ENCLOSURES.
3. PANEL DESIGNATION: ¼" HIGH TEXT, MINIMUM.
4. VOLTAGE CONFIGURATION & SOURCE: ⅛" HIGH TEXT, MINIMUM.
5. COLOR CODE LABEL: PRINTED LABEL IS ACCEPTABLE. SEE SPECIFICATIONS FOR COLOR CODE REQUIREMENTS.
6. OBTAIN FAULT CURRENT VALUES FOR ALL EQUIPMENT FROM FAULT CURRENT TABLE.

E E501 TYPICAL PANELBOARD IDENTIFICATION
NO SCALE



F E501 EQUIPMENT MOUNTING DETAIL
NO SCALE



AUTO MODE CONTROL SCHEME
1. EXTERIOR LIGHTS TURN ON/OFF VIA PHOTOCELL.
2. EXTERIOR EGRESS LIGHTS SHALL REMAIN ENERGIZED DURING POWER OUTAGES THROUGH THE INVERTER AFTER DARK. THE SWITCHED INPUT TO THE INVERTER FROM THE PHOTOCELL PREVENTS OPERATION OF THE INVERTER DURING DAYLIGHT.
3. INTERIOR RESTROOM LIGHTS TURN ON/OFF VIA OCCUPANCY SENSOR.
4. INTERIOR RESTROOM EGRESS LIGHTS SHALL REMAIN ENERGIZED DURING POWER OUTAGES THROUGH THE INVERTER WHEN OCCUPIED. THE SWITCHED INPUT TO THE INVERTER FROM THE OCCUPANCY SENSOR POWER PACKS PREVENTS OPERATION OF THE INVERTER IF HTE RESTROOMS ARE UNOCCUPIED.

G E501 LIGHTING CONTROL SCHEMATIC
NO SCALE

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NORTH CAROLINA 28428

NO.	DESCRIPTION	DATE	BY
1			
2			
3			
4			
5			
6			
7			
8			

ISSUED FOR CONSTRUCTION

Proposed Public Works Restroom Facility
TOWN of CAROLINA BEACH
PROJECT ADDRESS:
CAROLINA BEACH AVE, SOUTH - PUBLIC BOARDWALK
CAROLINA BEACH, NORTH CAROLINA 28428

ELECTRICAL DETAILS

NORTH CAROLINA PROFESSIONAL SEAL 17593 ENGINEER MARK A. CIARROCCA

Digitally signed by Mark A. Ciarrocca
Date: 2024.11.13 11:59:18-05'00'

NOT A CERTIFIED DOCUMENT
This document was originally issued and sealed by Mark A. Ciarrocca, NC PE #17593.
This document shall not be considered a certified document.

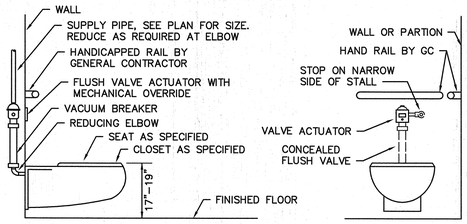
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JOB # 24030

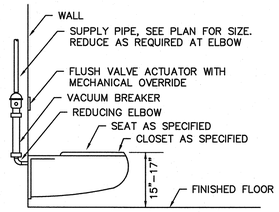
JOB NO: 2019-3549-00
DATE: 11.13.24

E501

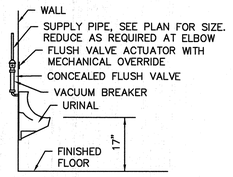
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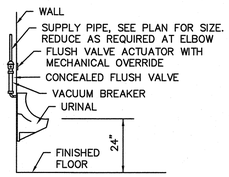
A P001 **ADULT ADA WATER CLOSET (WC–1) DETAIL**
NO SCALE



B P001 **ADULT STANDARD WATER CLOSET (WC–2) DETAIL**
NO SCALE



C P001 **ADULT ADA URINAL (U–1) ROUGH–IN DETAIL**
NO SCALE



D P001 **ADULT STANDARD URINAL (U–2) ROUGH–IN DETAIL**
NO SCALE

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	ROUGH–IN SIZES			REMARKS
		WASTE	C.W.	H.W.	
WC–1	WATER CLOSET–ADA	4"	1–1/4"	–	DETAIL A/P001
WC–2	WATER CLOSET–STANDARD	4"	1–1/4"	–	DETAIL B/P001
U–1	URINAL–ADA	2"	–	–	DETAIL C/P001
U–2	URINAL–STANDARD	2"	–	–	DETAIL D/P001
L–1	LAVATORY–ADA	1–1/2"	1/2"	1/2"	ADA HEIGHT/H & J/P0.1
DF–1	DRINKING FOUNTAIN	1–1/2"	1/2"	–	FREEZE PROOF
HB–1	HOSE BIBB IN BOX	–	1/2"	–	
HB–2	WALL HYDRANT IN BOX	–	3/4"	–	FREEZE PROOF/ 24" AFG
MR–1	MOR RECEPTOR	3"	1/2"	1/2"	
FD–1	FLOOR DRAIN	2"	–	–	

1. BACKWATER VALVES AND CHECK VALVES SHALL BE INSTALLED AT EACH FIXTURE, SEE SPECIFICATIONS

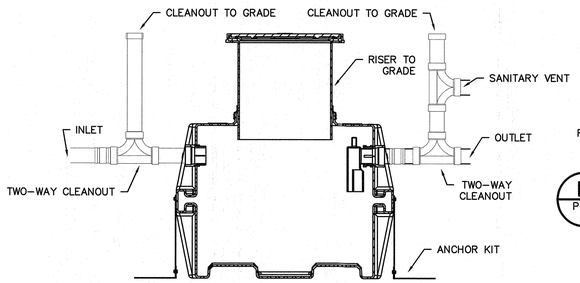
WATER HEATER SCHEDULE

SYMBOL	DESCRIPTION	ROUGH–IN SIZES		TEMP. SETTING	STORAGE CAPACITY	RECOVERY	FUEL	LOAD	ELEC.	LOCATION
		CW	HW							
WH–1	TANK TYPE–ELECTRIC	3/4"	3/4"	140°F	40 GAL	41 GPH	ELECTRIC	10 kW	240V, 1Ø	UTILITY STORAGE 201

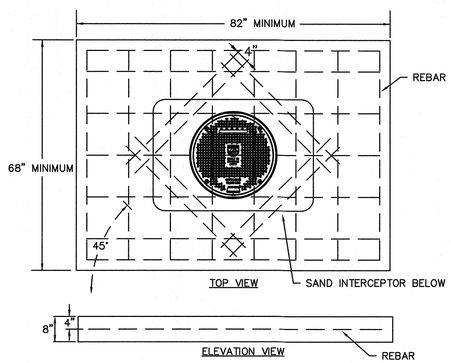
LEGEND

W	WASTE PIPING BELOW FINISHED FLOOR
V	VENT PIPING
CW	COLD WATER PIPING
HW	HOT WATER PIPING
HWR	HOT WATER RETURN PIPING
	BALL/BUTTERFLY VALVE
	BALL/BUTTERFLY VALVE IN VALVE BOX FLUSH WITH GRADE
	CHECK VALVE (DOMESTIC WATER)
	BACKWATER VALVE (WASTE)
	VALVE IN RISE
	PIPE ELBOW TURNED DOWN
	PIPE ELBOW TURNED UP
	PIPE TEE TURNED DOWN
	PIPE TEE TURNED UP
	CAP
	UNION
	STRAINER
	DOUBLE CHECK VALVE BACKFLOW PREVENTER
	REDUCED PRESSURE BACKFLOW PREVENTER
'A'	SHOCK ARRESTER, 'A' INDICATES PLUMBING DRAINAGE INSTITUTE STANDARD SIZE
	ASME PRESSURE TEMPERATURE RELIEF VALVE
VTR	VENT THRU ROOF
CO	CLEANOUT
ECO	EXTERIOR CLEANOUT
WCO	WALL CLEANOUT
FCO	FLOOR CLEANOUT
AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BFG	BELOW FINISHED GRADE
INV.	INVERT ELEVATION

NUMBER INDICATES PLAN OR SECTION — LETTER INDICATES ELEVATION OR DETAIL
SHEET NUMBER WHERE PLAN, SECTION, ELEVATION OR DETAIL IS DRAWN

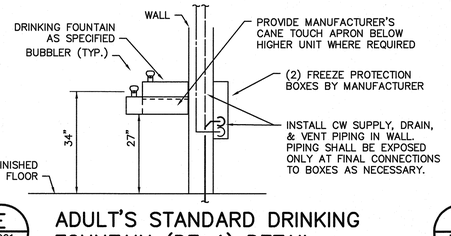


SAND INTERCEPTOR DETAIL



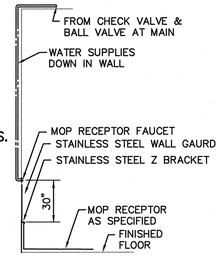
RELIEVING SLAB DETAIL

G P001 **SAND INTERCEPTOR DETAIL**
NO SCALE

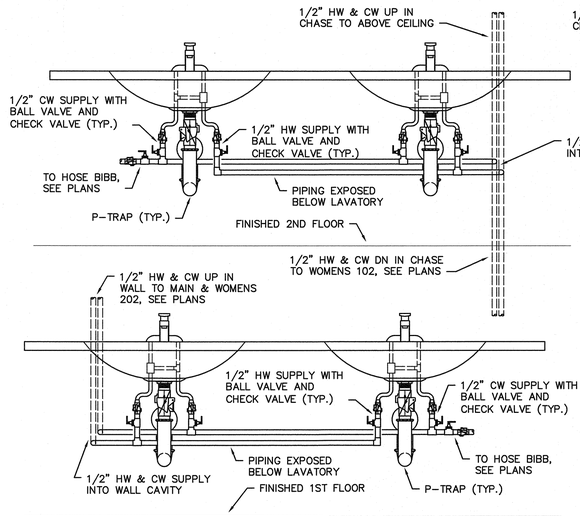


E P001 **ADULT'S STANDARD DRINKING FOUNTAIN (DF–1) DETAIL**
NO SCALE

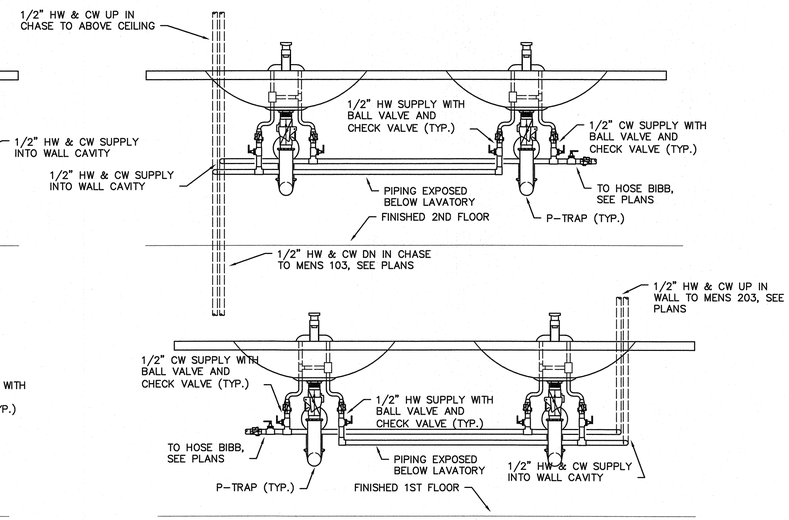
NOTE: INSTALL BASIN TIGHT TO A MIN OF TWO WALLS.



F P001 **MOP RECEPTOR (MR–1) DETAIL**
NO SCALE



H P001 **WOMENS LAVATORY DOMESTIC WATER DETAIL**
NO SCALE



J P001 **MENS LAVATORY DOMESTIC WATER DETAIL**
NO SCALE

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TOWN of CAROLINA BEACH

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PLUMBING LEGEND, SCHEDULES, AND DETAILS

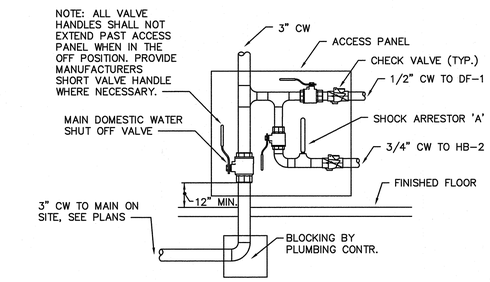
NORTH CAROLINA PROFESSIONAL SEAL 043164 ENGINEER CASEY D. GILMAN

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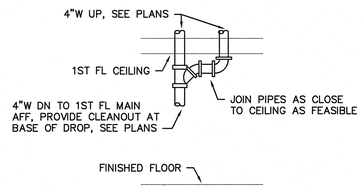
JOB # 24030

JOB NO: 2019-3549-00
DATE: 11.13.24

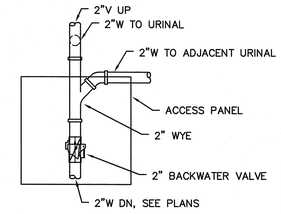
P001



C / P002 DOMESTIC WATER ENTRANCE DETAIL
NO SCALE



B / P002 2ND FLOOR WASTE DROP DETAIL
NO SCALE



A / P002 URINAL BACKWATER VALVE (U-1&2) DETAIL
NO SCALE

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PLUMBING DETAILS

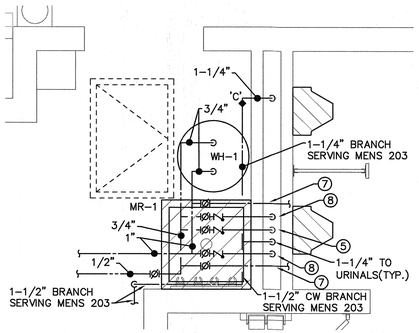
NORTH CAROLINA PROFESSIONAL SEAL 043164 ENGINEER CASEY D. GILLIAM

JOB NO: 2019-3549-00
DATE: 11.13.24

P002

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JOB # 24030



5 P100 **ENLARGED DOMESTIC WATER**
SCALE: 1/2" = 1'-0"

GRAPHIC SCALE
2' 1' 0 2' 4'
SCALE: 1/2"=1'-0"

KEYED NOTES: (THIS SHEET ONLY)

1. ROUTE DOMESTIC WATER CROSSING RESTROOMS WITH THE SLOPE OF THE CEILING WITHIN INSULATED ATTIC SPACE. DO NOT ROUTE PIPING OUTSIDE OF BUILDINGS THERMAL ENVELOPE. COORDINATE ATTIC PIPING WITH MECHANICAL.
2. ROUTE 1/2" CW ABOVE CEILING IN INSULATED WALL WITHIN THE THERMAL ENVELOPE, SEE ARCH. DO NOT ROUTE ANY PLUMBING PIPING OVER ELECTRICAL CLOSET (TYP.)
3. 3/4" CW IN CHASE TO HB-2 & DF-1, 1/2" CW TO HB-2 & 1/2" CW TO DF-1
4. INSTALL PIPING TIGHT TO CEILING.
5. 1/2" HW DN TO MR-1 BELOW.
6. 1-1/2" CW BRANCH SERVING MENS 203 WATER CLOSETS AND URINALS.
7. 1/2" TO MENS LAVATORIES, SEE 4/P100 FOR CONTINUATION
8. 1/2" TO MR-1
9. 2"W FROM U-1 AFF TO U-2, 2" W DN BFF @ U-2 & 2"V UP
10. INSTALL ELBOW ON OUTLET OF FLOOR DRAIN AND CAST 2" W IN SLAB, SEE STRUCTURAL PLANS FOR REINFORCING DETAIL. SLEEVE PIPING TO ALLOW FOR FUTURE REPLACEMENT. INSTALL P-TRAP IMMEDIATELY DOWNSTREAM OF UTILITY ROOM WALL. DO NOT CAST P-TRAP IN SLAB. INLET OF P-TRAP SHALL BE 30" MAX HORIZONTAL DISTANCE FROM OUTLET OF FIXTURE.
11. 2" CIRCUIT VENT
12. 4"W AFF
13. 4"W DN BFF, SEE 1/P100 FOR CONTINUATION.
14. 2" VENT PIPING OVER 4" WASTE PIPING, OFFSET FOR CLARITY.
15. RISE VENT ABOVE CEILING AND CONCEAL IN ATTIC SPACE OVER RESTROOM.
16. RISE VENT INTO GABLE AND TERMINATE TO OPEN AIR THRU GABLE VENT. COORDINATE PIPING IN ATTIC SPACE WITH MECHANICAL.
17. OFFSET 2" VENT AROUND 4" WASTE RISERS.
18. 2"V & 2" W SERVING URINALS OFFSET FOR CLARITY. NOTE THAT 2"W SERVIING URINALS IS STACKED OVER 4" W MAIN BFF.

GENERAL NOTES:

A. ALL FLOOR DRAINS AND MOP RECEPTORS SHALL BE PIPED SEPARATELY FROM ALL OTHER FIXTURES AND BE ROUTED THROUGH THE SAND INTERCEPTOR PRIOR TO CONNECTING TO SANITARY SEWER.

B. NO PIPING SHALL BE EXPOSED IN RESTROOMS OR ENTRY. ALL PLUMBING PIPING SHALL BE IN THE UTILITY ROOM OR CONCEALED ABOVE CEILINGS AND IN WALLS.

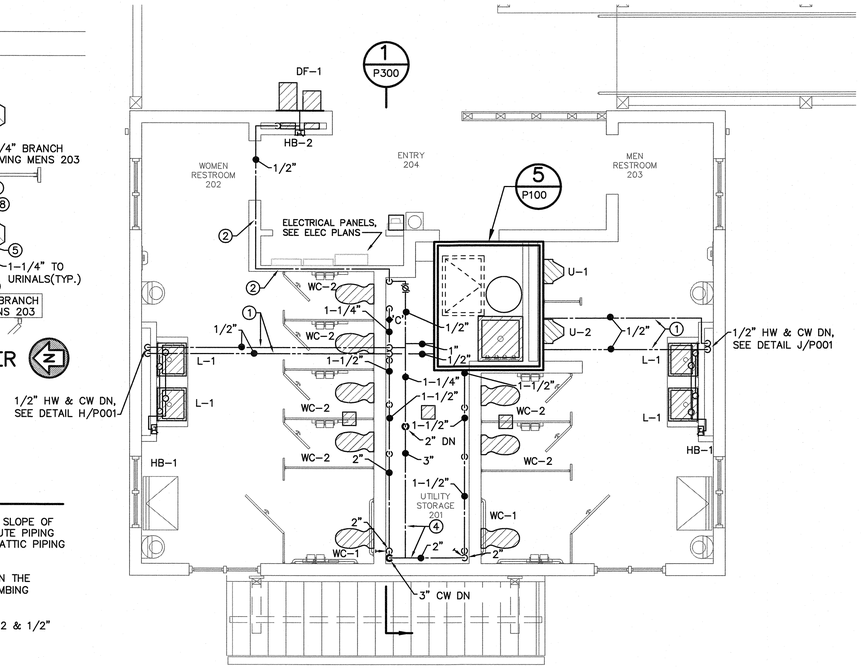
C. ALL DOMESTIC WATER PIPING SHALL BE WITHIN THE BUILDING THERMAL ENVELOPE TO PROTECT PIPING FROM FREEZING.

D. ACCESS PANELS SHALL BE PROVIDED FOR ALL CONCEALED VALVES AND SHOCK ARRESTORS. ACCESS PANELS INSTALLED IN AREA ACCESSIBLE TO THE PUBLIC SHALL BE VANDAL RESISTANT WITH SECURE LOCK AND KEY.

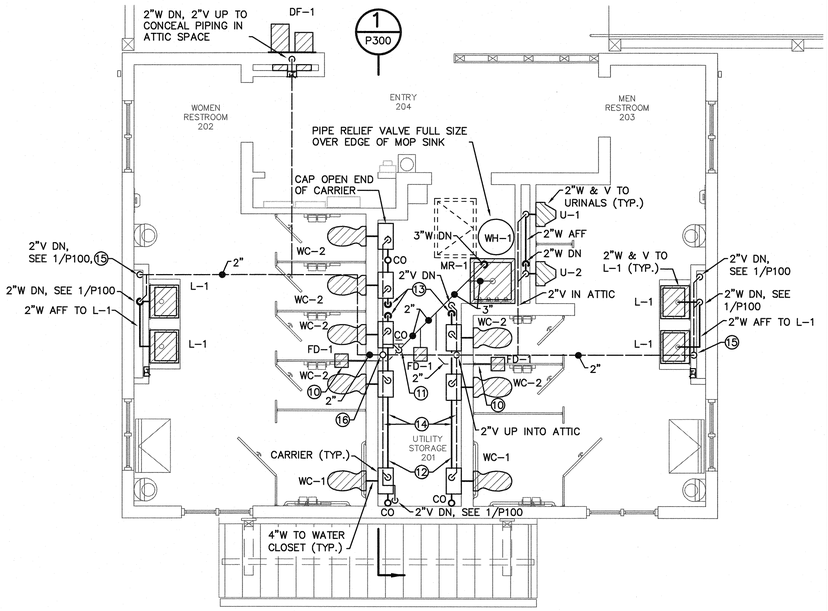
E. ALL VENT PIPING SHALL BE 2"

F. BACKWATER VALVES SHALL BE PROVIDED FOR ALL FIXTURES ON THE FIRST FLOOR. BACKWATER VALVES SHALL BE PROVIDED AFF UNLESS OTHER WISE NOTED.

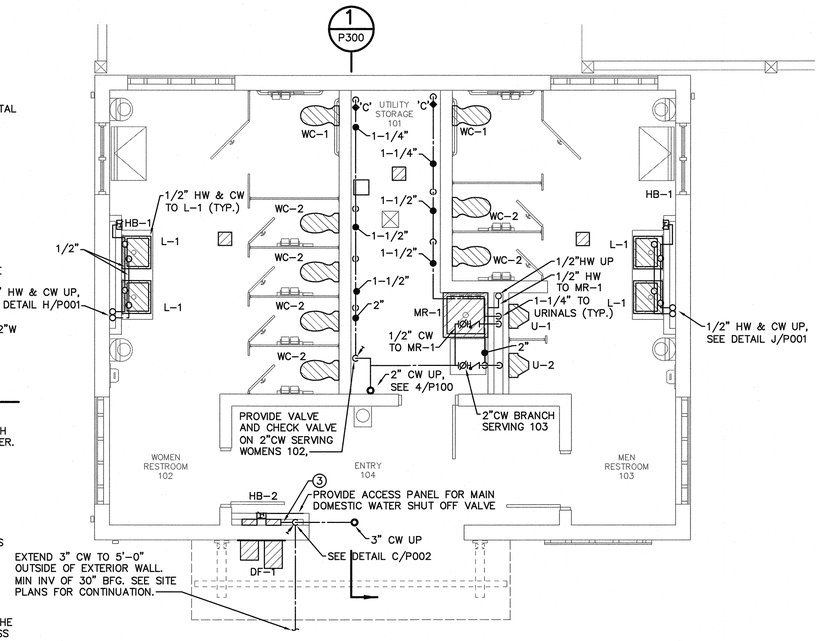
G. CHECK VALVES SHALL BE PROVIDED FOR ALL FIXTURES ON THE FIRST FLOOR AND ALL MOP RECEPTORS.



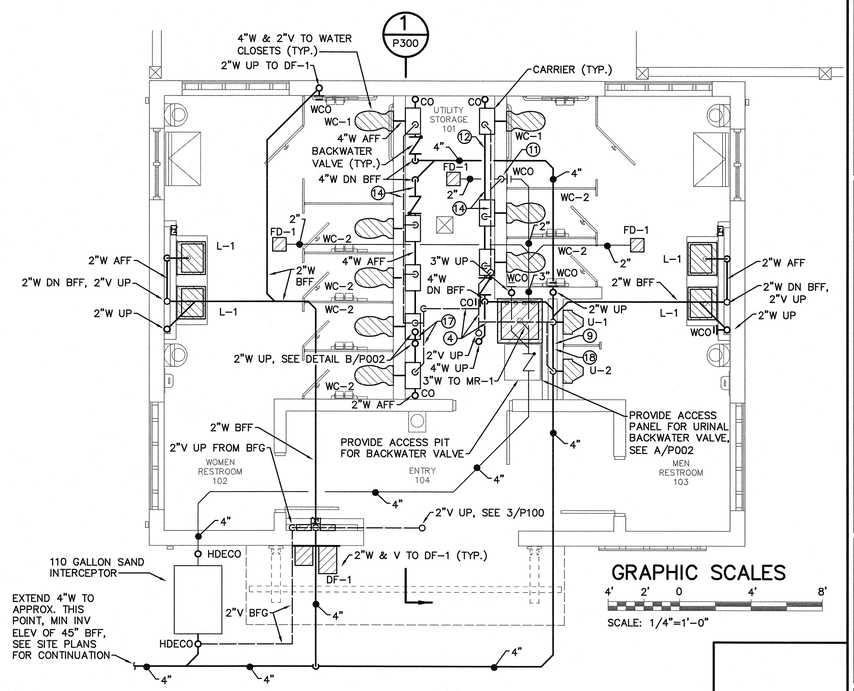
4 P100 **SECOND FLOOR DOMESTIC WATER**
SCALE: 1/4" = 1'-0"



3 P100 **SECOND FLOOR WASTE& VENT**
SCALE: 1/4" = 1'-0"



2 P100 **FIRST FLOOR DOMESTIC WATER**
SCALE: 1/4" = 1'-0"



1 P100 **FIRST FLOOR WASTE & VENT**
SCALE: 1/4" = 1'-0"

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PLUMBING FLOOR PLANS

SEAL
043164
REGISTERED PROFESSIONAL ENGINEER
CASEY D. GILLMAN

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JOB # 24030

JOB NO: 2019-3549-00
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P100

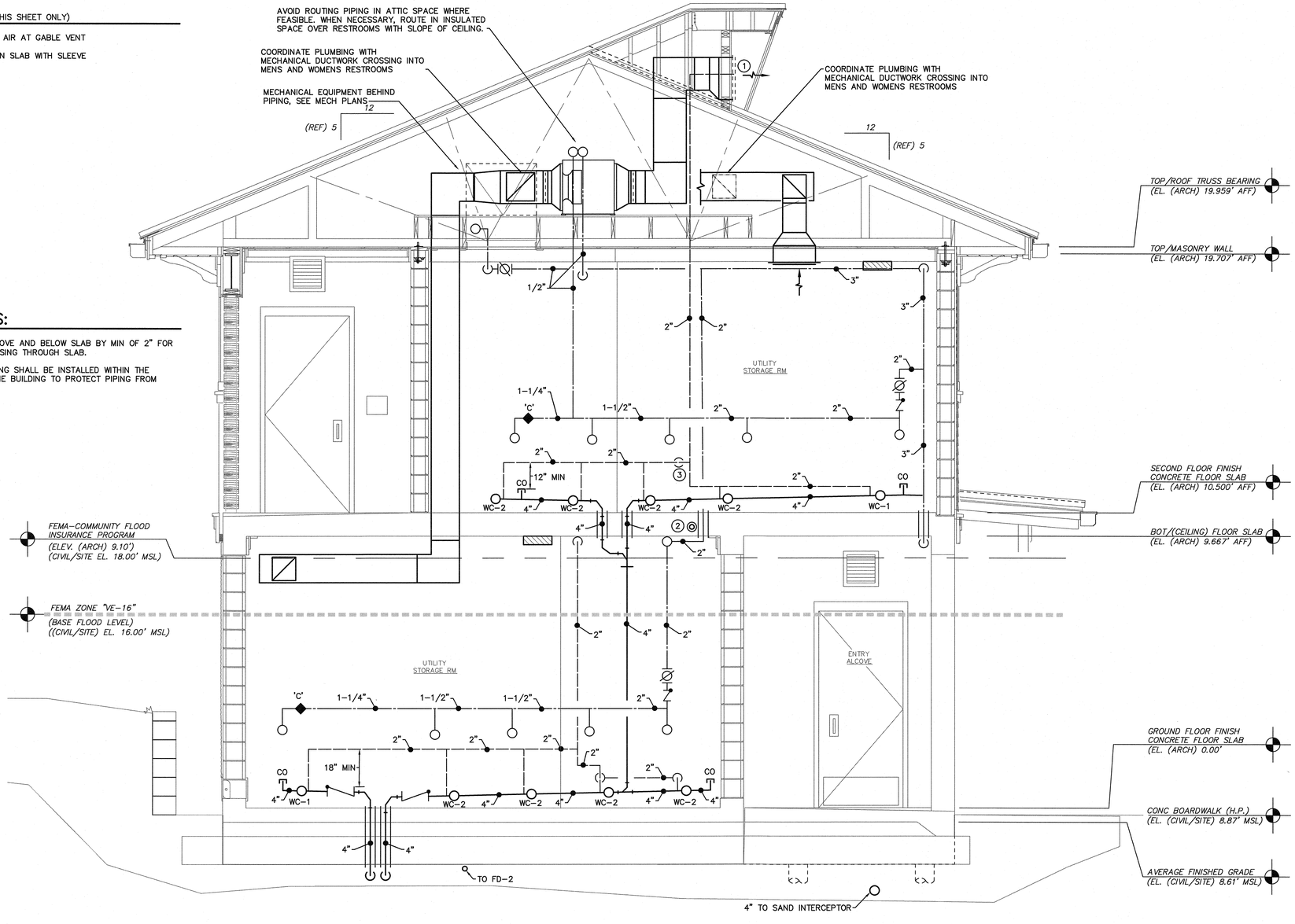
KEYED NOTES: (THIS SHEET ONLY)

1. TERMINATE VENT TO OPEN AIR AT GABLE VENT
2. 2"W SERVING FD-1 CAST IN SLAB WITH SLEEVE
3. 2"V SERVING FD-1

GENERAL NOTES:

A. SLEEVE SHALL EXTEND ABOVE AND BELOW SLAB BY MIN OF 2" FOR ALL PLUMBING PIPING PASSING THROUGH SLAB.

B. ALL DOMESTIC WATER PIPING SHALL BE INSTALLED WITHIN THE THERMAL ENVELOPE OF THE BUILDING TO PROTECT PIPING FROM FREEZING.



1 P300 PLUMBING SECTION
SCALE: 1/2" = 1'-0"

GRAPHIC SCALE
2' 1' 0 2' 4'
SCALE: 1/2"=1'-0"

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CAROLINA BEACH, NORTH CAROLINA 28428

PLUMBING SECTION

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