A NEW HOUSING FACILITY FOR

NEWBERRY COUNTY DETENTION CENTER

NEWBERRY, SOUTH CAROLINA

ARCHITECTURAL

STUDIO 8 DESIGN
2722 N. OAK STREET
Valdosta, Georgia 31602
(229) 244–1188

CIVIL

EMC ENGINEERING SERVICES, INC.
1306 East Washington Street
Greenville, South Carolina
(706) 565–6985

STRUCTURAL

CREWS ENGINEERING, INC.
101–B South Patterson Street
Valdosta, Georgia 31601
(229) 244–3100

PLUMBING / MECHANICAL / ELECTRICAL

PHILLIPS GRADICK ENGINEERING GROUP, P.C.
8215 Roswell Road, Building 900, Suite 925
Atlanta, Georgia 30350
(770) 650–9061

SECURITY

TANNER HOSKINS CONSULTANTS, LLC
3447 Lake Seminole Place
Buford, Georgia 30519
(770) 271–7969

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STUDIO 8 design architecture
2722 North Oak Street
Valdosta, Georgia 31602
P.(229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

SET No.

A HOUSING FACILITY FOR
NEWBERRY COUNTY DETENTION CENTER
NEWBERRY, SOUTH CAROLINA

STATE OF SOUTH CAROLINA
JAMES H. INGRAM
VALDOSTA, GEORGIA
No. 8990
REGISTERED ARCHITECT

DRAWN	BB
CHECKED	JI
JOB #	220006.01
DATE	12 JULY,2024

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REV. 1	CODE COMPLIANCE 6 FEBRUARY, 2025	REV.	
REV.	CODE COMPLIANCE REV. MAY 26, 2025	REV.	
REV.	BID SET 25 JUNE, 2025	REV.	
REV.		REV.	

COVER SHEET & INDEX TO DRAWINGS

X1.0



LOCATION MAP

N.T.S.

SITE NOTES:

PROJECT DESCRIPTION	THE SUBJECT SITE CONSISTS OF EXISTING DETENTION CENTER, LYING ON A PARCEL OF LAND. IT IS THE INTENTION OF THE OWNER TO CONSTRUCT A NEW CELL BLOCK BUILDING AND SUPPORT FACILITIES UPGRADES AT THE NEWBERRY COUNTY DETENTION CENTER.	
PROPERTY DESCRIPTION	3239 LOUIS RICH ROAD , NEWBERRY, NEWBERRY COUNTY, SOUTH CAROLINA, 286-3-20	
AREA	PROPERTY AREA	5.17 ACRES
	DISTURBED AREA	1.60 ACRES
ZONING	EXISTING	GC GENERAL COMMERCIAL
	PROPOSED	GC GENERAL COMMERCIAL
SETBACKS	FRONT SETBACK:	25-FT
	SIDE SETBACK:	5-FT (FOR ACCESSORY STRUCTURES)
	REAR SETBACK:	NONE
SURVEY DESCRIPTION	EMC ENGINEERING SERVICES INC. PERFORMED AN EXISTING CONDITIONS / TOPOGRAPHICAL SURVEY OF THIS PARCEL ON 05/13/2024. THERE MAY BE EASEMENTS, SETBACK LINES OR OTHER MATTERS AFFECTING THE PROPERTY THAT ARE NOT SHOWN ON THE SURVEY.	
FLOOD HAZARD ZONE	THIS PROPERTY IS LOCATED IN ZONE X "AREA OF MINIMAL FLOOD HAZARD", PER THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE MAP NO. 45071C0217C, HAVING AN EFFECTIVE DATE OF 09/16/2011.	
AQUATIC RESOURCES	THERE ARE NO WETLANDS LOCATED ON OR WITHIN 200-FT OF THE PROJECT LIMITS.	
STATE WATERS	THERE ARE NO STATE WATERS LOCATED ON OR WITHIN 200-FT OF THE PROJECT LIMITS.	
RECEIVING WATERS	THE SUBJECT SITE ULTIMATELY DRAINS INTO THE INITIAL RECEIVING WATERS OF UNNAMED TRIBUTARY OF BUSH RIVER.	
ENVIRONMENTAL CONDITIONS	NO ENVIRONMENTAL SITE ASSESSMENT HAS BEEN PERFORMED BY EMC ENGINEERING SERVICES, INC. FOR THE PROJECT SITE.	
NOTIFICATIONS	THE CITY OF NEWBERRY PLANNING & DEVELOPMENT SHALL BE NOTIFIED 72 HOURS PRIOR TO BEGINNING WORK AND 24 HOURS PRIOR TO RESUMING WORK AT (803) 321-1019.	
SPECIFICATIONS	ALL CONSTRUCTION MATERIALS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS PROVIDED AS PROVIDED AS PART OF THIS PROJECT. IF NOT OTHERWISE SPECIFIED, ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE SC DOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION) AND THE SC DOT STANDARD HIGHWAY DRAWINGS (CURRENT EDITION).	

GENERAL NOTES:

1. THE CONTRACTOR SHALL PROVIDE THREE WORKING DAYS NOTICE TO THE UTILITIES PROTECTION CENTER BY CALLING 811 IN ORDER TO LOCATE UTILITIES PRIOR TO STARTING ANY EXCAVATION OR CONSTRUCTION.
2. THE SIZES AND/OR LOCATIONS OF UNDERGROUND UTILITIES, IF NOTED ON THE DRAWINGS, ARE BASED ON INFORMATION AVAILABLE. NO EXCAVATIONS WERE MADE TO LOCATE OR IDENTIFY BURIED UTILITIES OR STRUCTURES, AS SUCH LOCATIONS OF UNDERGROUND UTILITIES AND STRUCTURES ARE FOR INFORMATIONAL PURPOSES ONLY AND MAY VARY FROM LOCATIONS SHOWN ON THE DRAWINGS. NO CERTIFICATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THIS INFORMATION. CONTRACTOR SHALL DETERMINE THE ACTUAL LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO STARTING ANY WORK THAT MAY CAUSE DAMAGE TO UTILITIES.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY UTILITY LINE OR STRUCTURE ENCOUNTERED, WHETHER OR NOT SHOWN ON THE DRAWINGS AND/OR LOCATED IN THE FIELD. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY UTILITIES DAMAGED DURING DEMOLITION AND/OR CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO STARTING WORK AND SHALL BE RESPONSIBLE FOR THE PROPER FIT OF ALL COMPONENTS. SOME DIMENSIONS AND CONDITIONS MAY VARY. NOTIFY ENGINEER IN WRITING OF ANY DISCREPANCIES OR CONFLICTS.

SURVEY NOTES:

1. BEARING ARE BASED ON SOUTH CAROLINA GRID AND DISTANCES ARE HORIZONTAL UNLESS OTHERWISE SHOWN OR NOTED. COORDINATES ARE ON SOUTH CAROLINA GRID (NAD 88).
2. ALL IRON PINS SET ARE 1/2" REBARS UNLESS NOTED OTHERWISE.
3. THE RATIO OF PRECISION OF THE UNBALANCED TRAVERSE MEETS OR EXCEEDS 1 : 10000
4. THE FEATURE SYMBOL LOCATIONS ARE TO THE CENTER OF THE SYMBOL AND MAY BE ENLARGED FOR CLARITY.
5. THE UNDERSIGNED DOES NOT WARRANT THE EXISTENCE OR NONEXISTENCE OF ANY HAZARDOUS WASTE ON THE SURVEY SITE. THERE DID NOT APPEAR TO BE AT THE TIME OF THE FIELD WORK.
6. THE UNDERSIGNED DOES NOT WARRANT THE EXISTENCE OR NONEXISTENCE OF ANY JURISDICTIONAL WETLANDS ON THE SURVEY SITE OTHER THAN THOSE SHOWN. IF ANY, WETLANDS SHOWN ARE SUBJECT TO FINAL APPROVAL BY THE U.S. CORPS. OF ENGINEERS.
7. THIS PLAT WAS PREPARED AS A PROFESSIONAL SERVICE FOR THE EXCLUSIVE USE OF THE PERSON, PERSONS, OR ENTITY NAMED WITHIN THE HEREON STATEMENT AND/OR TITLE. SAID STATEMENT DOES NOT EXTEND TO ANY UNNAMED PERSON, PERSONS OR ENTITY WITHOUT THE EXPRESSED PERMISSION OF EMC ENGINEERING SERVICES, INC., NAMING SAID PERSON, PERSONS OR ENTITY.
8. ACREAGE COMPUTED BY DMD METHOD
9. SAID DESCRIBED PROPERTY IS LOCATED WITHIN AN AREA HAVING A ZONE DESIGNATION X BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), ON FLOOD INSURANCE RATE MAP NO. 45071C0217C WITH A DATE OF IDENTIFICATION OF SEPTEMBER 16, 2011, FOR COMMUNITY PANEL NO. 217 OF 485, IN NEWBERRY COUNTY, STATE OF SOUTH CAROLINA, WHICH IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH SAID PREMISES IS SITUATED.
10. THE PROPERTY HAS DIRECT ACCESS TO LOUIS RICH ROAD, A DEDICATED PUBLIC STREET OR HIGHWAY.
11. THE ACCOMPANYING SURVEY WAS MADE ON THE GROUND AND CORRECTLY SHOWS THE LOCATION OF ALL BUILDINGS, STRUCTURES AND OTHER IMPROVEMENTS SITUATED ON THE ABOVE PREMISES; THERE ARE NO VISIBLE ENCROACHMENTS ON THE SUBJECT PROPERTY OR UPON ADJACENT LAND ABUTTING SAID PROPERTY EXCEPT AS SHOWN HEREON AND WAS MADE IN ACCORDANCE WITH LAWS AND/OR MINIMUM STANDARDS OF THE STATE OF SOUTH CAROLINA.
12. THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, ZONING ORDINANCES, AND ROW'S & COVENANTS RECORDED OR UNRECORDED.
13. THIS SURVEY DOES NOT REPRESENT A TITLE SEARCH.
14. THIS SURVEY IS A LEGAL DOCUMENT FOR THE PARTY (PARTIES) LISTED.
15. THIS IS AN EXISTING PARCEL OF LAND.
16. PROPERTY INFORMATION AND REFERENCES:
    TAX ID: 286-3-20
    PLAT BOOK AH PAGE 124
    DEED BOOK 530 PAGE 7

DEMOLITION AND EXISTING CONDITIONS NOTES:

1. CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY BARRIERS & WARNINGS TO LIMIT ACCESS TO PROJECT AREA TO ONLY THOSE PERSONNEL AUTHORIZED BY THE CONTRACTOR. SAFE PASSAGE SHALL BE MAINTAINED FOR PEDESTRIANS TO AREAS ADJACENT TO THE PROJECT SITE AS REQUIRED.
2. ALL ITEMS REMOVED OR DEMOLISHED BY THE CONTRACTOR, WHICH ARE NOT LISTED BY THE SPECIAL PROVISIONS, OR HEREIN, TO BE TURNED OVER TO THE OWNER, SHALL BECOME THE PROPERTY OF THE CONTRACTOR & SHALL BECOME THE CONTRACTOR'S RESPONSIBILITY FOR PROPER DISPOSAL.
3. DEMOLITION ACTIVITIES ARE NOT EXPECTED TO INCLUDE THE REMOVAL OF HAZARDOUS MATERIALS. IN THE EVENT THAT THAT HAZARDOUS MATERIALS ARE ENCOUNTERED OR SUSPECTED, CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING OF THE MATERIAL AND LOCATION.
4. CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY COMPANIES TO SCHEDULE ALL UTILITY & SERVICE INTERRUPTIONS TO OCCUPIED PORTIONS OF THE SITE.
5. CONTRACTOR SHALL REMOVE TREES AS INDICATED ON CIVIL PLANS. CONTRACTOR SHALL USE CAUTION DURING ALL CONSTRUCTION ACTIVITIES TO PROTECT ALL TREES, SHRUBS AND OTHER VEGETATION THAT ARE NOT INDICATED TO BE REMOVED. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE CLEAN-UP, CLEARING AND GRUBBING PER SPECIFICATIONS. ALL TREES THAT HAVE A MARKETABLE VALUE SHALL BE SALVAGED. CONTRACTOR SHALL COORDINATE WITH OWNER AS TO THE TREES TO BE RELOCATED OR SOLD.
6. ALL TREE SAVE AREAS SHALL BE CLEARLY IDENTIFIED WITH TREE PROTECTION FENCING AS INDICATED ON THE CIVIL PLANS PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE. NO ABOVE OR BELOW-GROUND DISTURBANCE OF ANY KIND SHALL OCCUR WITHIN THE TREE PROTECTION FENCING, NOR ANY PARKING, STOCK-PILING, BURNING ETC. SEE PLANS FOR TREE PROTECTION FENCING.
7. REQUIRED DEMOLITION IS NOTED ON PLANS, SECTIONS AND DETAILS. ADDITIONAL DEMOLITION AND REPAIR MAY BE REQUIRED. FAILURE TO NOTE SUCH WORK SHALL NOT BE THE BASIS FOR CONTRACT MODIFICATIONS OR ADDITIONS.
8. WHERE ASPHALT OR CONCRETE DEMOLITION IS REQUIRED, CONTRACTOR SHALL USE A SAW CUT AT THE LIMITS OF DEMOLITION OR NEAREST JOINT TO OBTAIN A CLEAN EDGE.
9. AT THE END OF EACH DAY'S WORK, REMOVE ANY DEBRIS (RESULTING FROM CONTRACTOR'S DEMOLITION OPERATIONS) THAT IS NOT WITHIN THE CONTRACTOR CONSTRUCTION LIMITS.
10. ALL PROPOSED AND EXISTING PAVEMENT AND CURB TO REMAIN SHALL BE PROTECTED. IF DAMAGED, IT SHALL BE REPLACED OR REPAIRED PROMPTLY TO MEET STATE AND LOCAL REQUIREMENTS AT THE CONTRACTOR'S EXPENSE.
11. CONTRACTOR IS REQUIRED TO NOTIFY ENGINEER IN WRITING OF ANY DISCREPANCIES OR CONFLICTS ENCOUNTERED DURING CONSTRUCTION ACTIVITIES.

SITE LAYOUT AND STAKING NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL SETBACKS, EASEMENTS, BUFFERS, ETC. PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. CONTRACTOR SHALL CAREFULLY EXAMINE ALL DOCUMENTS AND THE CONSTRUCTION SITE TO OBTAIN FIRST HAND KNOWLEDGE OF EXISTING CONDITIONS.
3. ALL DIMENSIONS ARE MEASURED TO BACK OF CURB WHERE CURB & GUTTER IS PRESENT. ALL OTHER DIMENSIONS ARE MEASURED TO EDGE OF PAVEMENT UNLESS NOTED OTHERWISE. CONTRACTOR IS TO COORDINATE WITH THE ARCHITECTURAL PLANS AS TO THE BUILDING LAYOUT AND DIMENSIONS.
4. ALL NEW ASPHALT AND/OR CONCRETE PAVING SHALL HAVE A SMOOTH TRANSITION TO EXISTING PAVEMENT.
5. ALL SIGNS AND UTILITY MARKERS REMOVED/DISTURBED DURING CONSTRUCTION SHALL BE REINSTALLED UNLESS NOTED OTHERWISE ON PLANS.
6. ALL HANDICAP ACCESSIBLE SITE IMPROVEMENTS INCLUDING HANDICAP PARKING SPACES AND ACCESSIBLE ROUTES SHALL CONFORM WITH THE AMERICANS WITH DISABILITY ACT DESIGN GUIDELINES AND SPECIFICATIONS, LATEST EDITION, AND ANY ADDITIONAL FEDERAL, STATE, AND LOCAL CODES, REQUIREMENTS, AND REGULATIONS.
7. ALL PARKING STRIPING SHALL BE 5" PAINTED WHITE UNLESS NOTED OTHERWISE. ALL PAINT TO BE WATERBORNE TRAFFIC PAINT THAT IS ENVIRONMENTALLY FRIENDLY.
8. ALL STRIPING AND SIGNS SHALL CONFORM WITH THE STATE'S DEPARTMENT OF TRANSPORTATION AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
9. AT THE END OF EACH DAY'S WORK, REMOVE/RELOCATE ANY DEBRIS AND/OR CONSTRUCTION MATERIALS THAT IS NOT WITHIN THE CONTRACTOR CONSTRUCTION LIMITS.
10. ALL PROPOSED AND EXISTING PAVEMENT AND CURB TO REMAIN SHALL BE PROTECTED. IF DAMAGED, IT SHALL BE REPLACED PROMPTLY TO MEET STATE AND LOCAL REQUIREMENTS AT THE CONTRACTOR'S EXPENSE.
11. CONTRACTOR IS REQUIRED TO NOTIFY ENGINEER IN WRITING OF ANY DISCREPANCIES OR CONFLICTS ENCOUNTERED DURING CONSTRUCTION ACTIVITIES.

UTILITY NOTES:

1. CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY COMPANIES TO SCHEDULE ALL UTILITY & SERVICE INTERRUPTIONS TO OCCUPIED PORTIONS OF THE SITE.
2. A 10 FOOT HORIZONTAL AND 18 INCH VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN SANITARY SEWER LINES AND ANY WATER OR STORM LINES. WATER AND STORM LINES SHALL BE ABOVE ANY SANITARY LINES.
3. MAINTAIN A MINIMUM OF 4' OF COVER ABOVE WATER MAINS.
4. ALL SANITARY SEWER LINES SHALL HAVE A MINIMUM OF 1% SLOPE UNLESS OTHERWISE NOTED.
5. FOR ANY WORK IN DOT RIGHT-OF-WAY, AN ENCROACHMENT AND/OR UTILITY PERMIT MAY BE REQUIRED.
6. ALL METERS, VALVES, AND BACKFLOW PREVENTORS ARE TO BE IN COMPLIANCE WITH THE LOCAL UTILITY AUTHORITY'S REQUIREMENTS.
7. ADJUST ALL TOP OF STRUCTURE ELEVATIONS (MANHOLES, CLEANOUTS, VALVE BOXES, ETC.) TO FINISHED GRADE ELEVATIONS.
8. ALL SANITARY SEWER WORK SHALL BE IN ACCORDANCE WITH THE LOCAL UTILITY AUTHORITY'S STANDARDS AND SPECIFICATIONS.
9. AT THE END OF EACH DAY'S WORK, REMOVE ANY DEBRIS, MATERIAL, ETC. (RESULTING FROM CONTRACTOR'S UTILITY OPERATIONS) THAT IS NOT WITHIN THE CONTRACTOR CONSTRUCTION LIMITS.
10. ALL PROPOSED AND EXISTING PAVEMENT AND CURB TO REMAIN SHALL BE PROTECTED. IF DAMAGED, IT SHALL BE REPLACED PROMPTLY TO MEET STATE AND LOCAL REQUIREMENTS AT THE CONTRACTOR'S EXPENSE.
11. CONTRACTOR IS REQUIRED TO NOTIFY ENGINEER IN WRITING OF ANY DISCREPANCIES OR CONFLICTS ENCOUNTERED DURING CONSTRUCTION ACTIVITIES.

UTILITY OWNERS:

THE FOLLOWING ENTITIES HAVE FACILITIES WITHIN OR ADJACENT TO THE PROJECT AREA.

TYPE OF ENTITY	NAME OF ENTITY	CONTACT NAME	CONTACT PHONE
ELECTRICTY	CITY OF NEWBERRY UTILITIES ELECTRIC DIVISION	TODD GUY	803-321-1018
WATER	CITY OF NEWBERRY UTILITIES WATER DISTRIBUTION	BRAD RIKARD	803-321-1018
SANITARY SEWER	CITY OF NEWBERRY UTILITIES WASTEWATER COLLECTION DIVISION	BRAD RIKARD	803-321-1018
STORMWATER	SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION	N/A	803-737-1200
NATURAL GAS	CLINTON NEWBERRY NATURAL GAS AUTHORITY	MELISSA LAWSON	864-833-1862
TELECOMMUNICATIONS 1	WC FIBER	N/A	888-962-9108
TELECOMMUNICATIONS 2			
TELECOMMUNICATIONS 3			

GRADING AND DRAINAGE NOTES:

1. ALL SUITABLE FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 8 INCHES & COMPACTED TO 95% OF MAX. DRY DENSITY OF STANDARD PROCTOR.
2. FILL MATERIAL SHALL BE CLEAN AND FREE OF ALL DEBRIS AND ORGANIC MATERIAL
3. CONTRACTOR TO FILL AND/OR EXCAVATE AS REQUIRED FOR INSTALLATION OF ALL PROPOSED FEATURES. FINAL GRADES SHALL BE FLUSH WITH EDGE OF ASPHALT, SIDEWALK, AND/OR BACK OF CURB AND GRADED TO ENSURE POSITIVE DRAINAGE. PONDING OF STORMWATER SHALL NOT OCCUR.
4. ADJUST ALL TOP OF STRUCTURES ELEVATIONS (MANHOLES, CLEANOUTS, VALVE BOXES, ETC.) TO FINISH GRADE ELEVATIONS. FAILURE TO NOTE SUCH WORK SHALL NOT BE THE BASIS FOR CONTRACT MODIFICATIONS OR ADDITIONS.
5. ALL PROPOSED AND EXISTING PAVEMENT AND CURB TO REMAIN SHALL BE PROTECTED. IF DAMAGED, IT SHALL BE REPLACED PROMPTLY TO MEET STATE AND LOCAL REQUIREMENTS AT THE CONTRACTOR'S EXPENSE.
6. CARE SHALL BE TAKEN NEAR EXISTING TREES, SHRUBS, AND OTHER VEGETATION WHICH ARE TO REMAIN SO AS TO NOT CAUSE INJURY TO ROOT SYSTEMS OR TRUNKS.
7. AT THE END OF EACH DAY'S WORK, REMOVE ANY DEBRIS, MATERIAL, ETC. (RESULTING FROM CONTRACTOR'S GRADING OPERATIONS) THAT IS NOT WITHIN THE CONTRACTOR CONSTRUCTION LIMITS.
8. ALL DISTURBED AREAS OF THE SITE SHALL BE DRESSED TO UNIFORM, WELL DRAINED AND VISUALLY APPEALING SURFACE WITH A MINIMUM TOPSOIL LAYER OF FOUR INCHES.
9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE SITE IS ADA ACCESSIBLE AS REQUIRED BY FEDERAL, STATE AND LOCAL GOVERNMENT.
10. FINISH GRADE ELEVATIONS INDICATE EDGE OF PAVEMENT/TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
11. REFER TO DETAILS FOR PAVEMENT TYPICAL SECTION.
12. SITE SHALL BE GRADED UNIFORMLY FOR POSITIVE DRAINAGE AS SHOWN FROM THE PROPOSED ELEVATIONS, CONTOURS, AND THE DRAINAGE SLOPE ARROWS.
13. MAXIMUM SIDEWALK CROSS SLOPE IS 2%. MAXIMUM LONGITUDINAL SLOPE ALONG AN ACCESSIBLE SIDEWALK IS 5%. MAXIMUM PAVEMENT SLOPE IN HANDICAP PARKING AREA AND ACCESS AISLE IS 2% IN ANY DIRECTION. MAXIMUM HANDICAP RAMP SLOPE IS 12H:1V.
14. CONTRACTOR IS REQUIRED TO NOTIFY ENGINEER IN WRITING OF ANY DISCREPANCIES OR CONFLICTS ENCOUNTERED DURING CONSTRUCTION ACTIVITIES.

PROPOSED FEATURES LEGEND

DEMOLITION

AREA

DELINEATION · X · X · X · X ·

EROSION CONTROL

BUFFER

DIVERSION BERM & SWALE

LIMITS OF DISTURBANCE

ORANGE BARRIER FENCING

SILT FENCE (SINGLE ROW) X X X

SILT FENCE (DOUBLE ROW) XX XX XX

PROPERTY

PROPERTY LINE

RIGHT OF WAY RW

EASEMENT

SETBACKS

UTILITIES

AERIAL POWER E

AERIAL TELEPHONE T

AERIAL TRAFFIC SIGNAL TS

AERIAL CABLE TV

BURIED POWER E

BURIED TELEPHONE T

BURIED TRAFFIC SIGNAL TS

BURIED CABLE TV

SANITARY SEWER SS

FORCEMAIN FM>

WATER LINE W

FIRE WATER LINE FW

NATURAL GAS G

PP POWER POLE

LP LIGHT POLE

CO SANITARY CLEANOUT

SS SANITARY MANHOLE

BFP BACKFLOW PREVENTER

FDC FIRE DEPARTMENT CONNECTION

FH FIRE HYDRANT

RPZ REDUCED PRESSURE ZONE ASSEMBLY

WM WATER METER

VALVE

TOPOGRAPHY

CONTOUR & LABELS 150.00 150

DITCH/SWALE

STORM SEWER

RIPRAP

GRATE INLET

GRATE INLET WITH HOOD

DOUBLE WING CURB INLET

WEIR INLET

ST STORM MANHOLE

FLARED END SECTION

EXISTING CONDITIONS LEGEND

PROPERTY BOUNDARY		STORM LINE CLEAN OUT	ST CO
ADJACENT PROPERTY LINE		SANITARY CLEAN OUT	SS CO
NOW OR FORMERLY	N/F	AIR CONDITIONING UNIT	AC
RIGHT-OF-WAY	R/W	FINISHED FLOOR ELEVATION	FFE
1/2" IRON REBAR FOUND	1/2" IRF	BOLLARD	
CONCRETE MONUMENT FOUND	CMF	CAMERA POLE	CP
COMPUTED POINT	PT	REINFORCED CONCRETE PIPE	RCP
TEMPORARY BENCHMARK SET	T.B.M.	POLY(VINYL CHLORIDE) PIPE	PVC
GAS SERVICE METER	GM	CAST IRON PIPE	CI
FIRE HYDRANT		INVERT ELEVATION	IE: 12.00
WATER VALVE	WV	SANITARY SEWER LINE	—SS—
WATER METER	WM	STORM DRAINAGE LINE	—ST—
FIRE DEPT CONNECTION	FDC	OVERHEAD ELECTRIC	—E—
MONITORING WELL	MW	UNDERGROUND ELECTRIC	—E—
TELECOMMUNICATION PEDESTAL	TP	UNDERGROUND TELEPHONE	—T—
UNDERGROUND COMM. BOX	UCAB	UNDERGROUND GAS LINE	—G—
POWER POLE	PP	WATER MAIN LINE	—W—
LIGHT POLE	LP	CHAIN LINK FENCE	—O—
ELECTRIC TRANSFORMER	ETR		
ELECTRIC CONTROL BOX	UGE	CONCRETE SURFACE	
STORM MANHOLE		ASPHALT SURFACE	
GRATE INLET			
SANITARY SEWER MANHOLE			

South Carolina 811 Call 811 Before you Dig

NOT FOR CONSTRUCTION

STUDIO8 design architecture
2722 North Oak Street
Valdosta, Georgia 31602
P.(229) 244-1188
info@s8architects.com
www.s8darchitects.com

EMC ENGINEERING SERVICES, INC.
1506 East Washington St.
Greenville, SC 29607
Ph.: (864) 252-3974
greenville@emc-eng.com
www.emc-eng.com
ENVIRONMENTAL CIVIL MARINE
ALBANY • ATLANTA • AUGUSTA • BRUNSWICK • COLUMBUS
GREENVILLE • SAVANNAH • STATESBORO • THOMASTON

PROJ NO: 24-3023

A HOUSING FACILITY FOR
NEWBERRY COUNTY
DETENTION CENTER
NEWBERRY, SOUTH CAROLINA

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 39863 JEREMY ROBERT MANN

DRAWN	MLM
CHECKED	JRH
JOB #	220006.01
DATE	07/12/2024

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GENERAL NOTES

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CERTIFICATION:

"I HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SUBMITTED SIGNIFYING THAT I ACCEPT RESPONSIBILITY FOR THE DESIGN OF THE SYSTEM. FURTHER, I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN IS CONSISTENT WITH THE REQUIREMENTS OF TITLE 48, CHAPTER 14 OF THE CODE OF LAWS OF SC, 1976 AS AMENDED, PURSUANT TO REGULATION 72-300 ET SEQ. (IF APPLICABLE), AND IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF SCR100000."

Jeremy Robert Hart

REGISTERED PROFESSIONAL ENGINEER

CONSTRUCTION SEQUENCE (SINGLE PHASE - 5 ACRES OR LESS DISTURBANCE):

ITEMS MUST OCCUR IN THE ORDER LISTED; ITEMS CANNOT OCCUR CONCURRENTLY UNLESS SPECIFICALLY NOTED.

PRE-CONSTRUCTION:
1. RECEIVE NPDES COVERAGE FROM DHEC
2. CONDUCT A PRE-CONSTRUCTION MEETING (ON-SITE IF MORE THAN 10 DISTURBED AND NON-LINEAR)
3. NOTIFY SCDHEC EQC REGIONAL OFFICE OR OCRM OFFICE AT LEAST 48 HOURS PRIOR TO BEGINNING LAND DISTURBING ACTIVITIES

CONSTRUCTION:
4. INSTALLATION OF CONSTRUCTION ENTRANCE(S)
5. CLEARING & GRUBBING ONLY AS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS
6. INSTALLATION OF PERIMETER CONTROLS (INCLUDING SILT FENCE)
7. CLEARING & GRUBBING ONLY IN AREAS OF PROPOSED TRAP.
8. INSTALLATION OF TRAP AND CONVEYANCE SWALES.
9. CLEARING & GRUBBING OF SITE, INCLUDING DEMOLITION ACTIVITIES (SEDIMENT & EROSION CONTROL MEASURES FOR THESE AREAS MUST ALREADY BE INSTALLED.
10. ROUGH GRADING.
11. INSTALLATION OF STORM DRAIN SYSTEM AND PLACEMENT OF INLET PROTECTION AS EACH INLET IS INSTALLED.
12. BUILDING CONSTRUCTION AND FINE GRADING,
13. PAVING AND INSTALLATION OF PAVED SURFACE INLET PROTECTION.
14. INSTALLATION OF LANDSCAPING AND PERMANENT / FINAL STABILIZATION.
15. REMOVAL OF TEMPORARY SEDIMENT & EROSION CONTROL MEASURES AFTER ENTIRE AREA DRAINING TO THE STRUCTURE IS FINALLY STABILIZED. THESE AREAS SHOULD BE VERIFIED BY THE SWPPP PREPARER, OR REGISTRATION EQUIVALENT, BEFORE TEMPORARY CONTROLS ARE REMOVED.

POST-CONSTRUCTION:
16. PERFORM AS-BUILT SURVEYS OF DETENTION BASIN AND SUBMIT TO MS4 OR DHEC FOR ACCEPTANCE.
17. SUBMIT NOTICE OF TERMINATION (NOT) TO MS4 OR DHEC AS APPROPRIATE.

PROJECT CONTACT INFORMATION:

PRIMARY PERMITTEE
CAPT. DANIEL FLOYD
NEWBERRY SHERIFF'S DEPARTMENT
550 WILSON RD., PO BOX 247, NEWBERRY, SC 29108
(803) 405-7750
DFLOYD@NCSO.SC.GOV

PROPERTY OWNER
CAPT. DANIEL FLOYD
NEWBERRY SHERIFF'S DEPARTMENT
550 WILSON RD., PO BOX 247, NEWBERRY, SC 29108
(803) 405-7750
DFLOYD@NCSO.SC.GOV

PROJECT MANAGER
JARED CUMBEE
CLAYTON CONSTRUCTION
121 VENTURE BLVD., SUITE A, SPARTANBURG, SC 29306
(864) 884-6340
JCUMBEE@CLAYTONCONSTRUCTION.NET

ENGINEER OF RECORD (C-SWPPP PREPARER)
JEREMY R HART
EMC ENGINEERING SERVICES, INC
1306 EAST WASHINGTON STREET, GREENVILLE, SC 29607
(864) 252-3974
JEREMY_HART@EMC-ENG.COM

TWENTY-FOUR HOUR CONTACT RESPONSIBLE FOR SEDIMENT AND EROSION CONTROL
JARED CUMBEE
CLAYTON CONSTRUCTION
121 VENTURE BLVD., SUITE A, SPARTANBURG, SC 29306
(864) 884-6340
JCUMBEE@CLAYTONCONSTRUCTION.NET

SCDHEC STORM WATER POLLUTION PREVENTION PLAN NOTES:

1. STORM WATER POLLUTION PREVENTION PLAN (SWPPP) CONSTITUENTS INCLUDE:
   A. APPROVED DRAWINGS
   B. NOTICE OF INTENT (NOI)
   C. SOUTH CAROLINA NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES (CGP)
   D. FOR LARGE AND SMALL CONSTRUCTION ACTIVITIES, PERMIT NO: SCR100000
   E. CGP COVERAGE LETTER FROM SCDHEC
   F. DHEC, EPA, TRIBAL OR LOCAL AGENCY APPROVAL OF SEDIMENT AND EROSION PLANS
   G. GRADING PLANS OR STORM WATER MANAGEMENT PLANS
   H. OPERATOR OF A MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) APPROVAL

2. OPERATION OF DAY TO DAY SITE ACTIVITIES (ODSA)
   A. THE PRIME CONTRACTOR SHALL SIGN A SECONDARY-PERMITTEE CERTIFICATION AS IDENTIFIED HEREIN AND SHALL BE RESPONSIBLE FOR ALL ODSA RESPONSIBILITIES IDENTIFIED HEREIN AND AS IDENTIFIED IN THE CGP.

3. MAINTAIN SWPPP ON-SITE
   A. THE CONTRACTOR SHALL MAINTAIN THE SWPPP ON SITE AND ALL CONSTITUENTS AT ALL TIMES FOR USE OF ALL THOSE IDENTIFIED AS HAVING RESPONSIBILITY UNDER THE SWPPP WHENEVER THEY ARE ON THE CONSTRUCTION SITE AND FOR USE BY INSPECTING OFFICIALS.

4. SWPPP DURATION
   A. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE SWPPP AS WRITTEN FROM THE COMMENCEMENT OF THE CONSTRUCTION ACTIVITY UNTIL FINAL STABILIZATION IS COMPLETE.

5. SWPPP AREA OF COVERAGE
   A. TOTAL PROJECT AREA: 5.17 AC
   B. TOTAL DISTURBED AREA: 1.60 AC
   C. THIS SWPPP APPLIES AND IS LIMITED TO AREAS OF CONSTRUCTION IDENTIFIED IN THE APPROVED DRAWINGS.

6. PRE-CONSTRUCTION CONFERENCE
   PRIOR TO ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL SCHEDULE & ORGANIZE AN ON-SITE, PRE-CONSTRUCTION CONFERENCE TO BE LEAD BY THE SWPPP PREPARER. THE CONTRACTOR SHALL ENSURE THAT ALL PERSONS, PRIMARY-PERMITTEES, SECONDARY PERMITTEES AND ALL OTHERS THAT WILL BE CONDUCTING LAND DISTURBING ACTIVITY ARE IN ATTENDANCE.
   II. CONTRACTOR CERTIFICATIONS AS IDENTIFIED HEREIN AFTER SHALL BE SIGNED AND TURNED IN AT THE PRE-CONSTRUCTION CONFERENCE.
   III. THE SWPPP PREPARER WILL PREPARE MINUTES OF THE SWPPP PRE-CONSTRUCTION CONFERENCE AND WILL PROVIDE THOSE TO THE CONTRACTOR AND OWNER WITHIN SEVEN (7) DAYS OF THE SWPPP PRE-CONSTRUCTION CONFERENCE.

7. CONTRACTOR CERTIFICATIONS (ALL PROJECTS)
   A. ON BEHALF OF THE OWNER AND BEFORE ANY LAND DISTURBANCE ACTIVITIES CAN BEGIN, THE CONTRACTOR SHALL ENSURE THAT ALL CONTRACTORS, SUBCONTRACTORS AND OTHER PERSONS THAT WILL BE ENGAGED IN LAND DISTURBANCE ACTIVITIES SIGN A PRIMARY PERMITTEE CERTIFICATION OR SECONDARY PERMITTEE CERTIFICATION AND ATTEND A SWPPP PRE-CONSTRUCTION CONFERENCE.
   B. THE CONTRACTOR SHALL ENSURE THAT COPIES OF ALL CERTIFICATIONS ARE MAINTAINED ON-SITE WITH THE SWPPP.
   C. CONTRACTORS AND SUBCONTRACTORS ELECTING OR CONTRACTED TO BE SECONDARY PERMITTEES SHALL SIGN A CERTIFICATION STATEMENT AS FOLLOWS:

   SECONDARY-PERMITTEE CERTIFICATION:
   "I CERTIFY BY MY SIGNATURE BELOW THAT: A) FOR SITES THAT DISTURB 10 OR MORE ACRES, I PARTICIPATED IN A PRE-CONSTRUCTION CONFERENCE ONSITE OR, WHEN ALLOWED, OFFSITE WITH THE INDIVIDUAL WHO IS RESPONSIBLE FOR THE OPERATIONAL CONTROL OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP); AND B) I ACCEPT THE TERMS AND CONDITIONS OF THE SWPPP AS REQUIRED BY THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES PERMIT NUMBER SCR100000) ISSUED TO THE OWNER/OPERATOR OF THE CONSTRUCTION ACTIVITY FOR WHICH I HAVE BEEN CONTRACTED TO PERFORM CONSTRUCTION RELATED PROFESSIONAL SERVICES. FURTHER, BY MY SIGNATURE BELOW, I UNDERSTAND THAT I AM BECOMING A SECONDARY PERMITTEE WITH THE OWNER/OPERATOR OF THE FACILITY FOR WHICH I HAVE BEEN CONTRACTED TO PERFORM PROFESSIONAL CONSTRUCTION SERVICES. AS A SECONDARY PERMITTEE, I UNDERSTAND THAT I, AND MY COMPANY, AS THE CASE MAY BE, AM LEGALLY ACCOUNTABLE TO THE SC DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (DHEC), UNDER THE AUTHORITIES OF THE CWA AND THE SC POLLUTION CONTROL ACT, TO ENSURE COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE SWPPP. I ALSO UNDERSTAND THAT DHEC ENFORCEMENT ACTIONS MAY BE TAKEN AGAINST ANY SPECIFIC SECONDARY PERMITTEE OR COMBINATION OF SECONDARY PERMITTEES IF THE TERMS AND CONDITIONS OF THE SWPPP ARE NOT MET. THEREFORE, HAVING UNDERSTOOD THE ABOVE INFORMATION, I AM SIGNING THIS CERTIFICATION AND AM RECEIVING SECONDARY PERMITTEE STATUS TO THE AFOREMENTIONED GENERAL NPDES PERMIT."

   COMPANY NAME:
   PRINTED NAME OF PERSON: TITLE:
   SIGNATURE:
   DATE:
   STREET ADDRESS:
   CITY, STATE, ZIP:
   PHONE (DAY):

   D. CONTRACTORS AND SUBCONTRACTORS NOT ELECTING OR NOT CONTRACTED TO BE SECONDARY PERMITTEES SHALL SIGN A CERTIFICATION STATEMENT AS FOLLOWS:

   NON-SECONDARY PERMITTEE CERTIFICATION:
   "I CERTIFY BY MY SIGNATURE BELOW THAT: A) FOR SITES THAT DISTURB 10 ACRES OR MORE, I PARTICIPATED IN A PRE-CONSTRUCTION CONFERENCE ON SITE OR , WHEN ALLOWED, OFFSITE WITH THE INDIVIDUALS WHO ARE RESPONSIBLE FOR THE OPERATIONAL CONTROL OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP); AND B) I UNDERSTAND THE TERMS AND CONDITIONS OF THE SWPPP AS REQUIRED BY THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION PERMIT (NPDES PERMIT NUMBER SCR100000) ISSUED TO THE OWNER/OPERATOR OF THE CONSTRUCTION ACTIVITY FOR WHICH I HAVE BEEN CONTRACTED TO PERFORM CONSTRUCTION RELATED PROFESSIONAL SERVICES. I UNDERSTAND THAT I, AND MY COMPANY, AS THE CASE MAY BE, MAY BE LEGALLY ACCOUNTABLE TO THE SC DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (DHEC), UNDER THE AUTHORITIES OF THE CWA AND THE SC POLLUTION CONTROL ACT, TO ENSURE COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE SWPPP."

   COMPANY NAME:
   PRINTED NAME OF PERSON: TITLE:
   SIGNATURE:
   DATE:
   STREET ADDRESS:
   CITY, STATE, ZIP:
   PHONE (DAY):

8. ALLOWABLE NON-STORM WATER DISCHARGES
   A. THE CONTRACTOR IS AUTHORIZED FOR THE FOLLOWING NON-STORM WATER DISCHARGES, PROVIDED THE NON-STORM WATER COMPONENT OF THE DISCHARGE IS IN COMPLIANCE WITH SUBPART 3.5 (NON-STORM WATER DISCHARGE MANAGEMENT) OF THE CGP:
   D. DISCHARGES FROM FIRE FIGHTING ACTIVITIES.
   II. FIRE HYDRANT FLUSHINGS.
   III. WATER USED TO WASH VEHICLES WHERE DETERGENTS ARE NOT USED.
   IV. WATER USED TO CONTROL DUST IN ACCORDANCE WITH THE CGP.
   V. POTABLE WATER INCLUDING UNCONTAMINATED WATER LINE FLUSHINGS.
   VI. ROUTINE EXTERNAL BUILDING WASH DOWN THAT DOES NOT USE DETERGENTS.
   VII. PAVEMENT WASH WATERS WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED AND WHERE DETERGENTS ARE NOT USED.
   VIII. UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE.
   IX. UNCONTAMINATED GROUND WATER OR SPRING WATER.
   X. FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS SUCH AS SOLVENTS.
   XI. UNCONTAMINATED EXCAVATION DEWATERING.

9. CONSTRUCTION WASTE MATERIALS
   A. THE CONTRACTOR SHALL PREVENT THE DISCHARGE OF ALL BUILDING/CONSTRUCTION MATERIALS OR OTHER SIMILAR MATERIALS TO SURFACE WATERS OF THE STATE THROUGH THE USE OF ROLL-OFF CONTAINERS INTENDED FOR THE COLLECTION OF SUCH MATERIALS. ANY OTHER MEANS SHALL BE SUBMITTED BY THE OPERATOR AS AN AMENDMENT TO THE SWPPP AND APPROVED BY DHEC PRIOR TO INITIATION.

10. SANITARY FACILITIES
    A. ALL PERSONNEL INVOLVED WITH CONSTRUCTION ACTIVITIES MUST COMPLY WITH STATE AND LOCAL SANITARY OR SEPTIC REGULATIONS. TEMPORARY SANITARY FACILITIES WILL BE PROVIDED AT THE SITE THROUGHOUT THE CONSTRUCTION PHASE. THEY MUST BE UTILIZED BY ALL CONSTRUCTION PERSONNEL AND WILL BE SERVICES BY A COMMERCIAL OPERATOR.

11. CONCRETE WASTE FROM CONCRETE READY-MIX TRUCKS
    A. DISCHARGES OF EXCESS OR WASTE CONCRETE AND/OR WASH WATER FROM CONCRETE TRUCKS WILL BE ALLOWED ON THE CONSTRUCTION SITE, BUT ONLY IN SPECIFICALLY DESIGNATED DIKED AREAS TO PREVENT CONTACT BETWEEN THE CONCRETE AND/OR WASH WATER AND STORM WATER THAT WILL BE DISCHARGED FROM THE SITE.
    B. CURED RESIDUE FROM THE CONCRETE WASHOUT DIKED AREAS SHALL BE DISPOSED IN ACCORDANCE WITH APPLICABLE STATE AND FEDERAL REGULATIONS.
    C. JOBSITE SUPERINTENDENT IS RESPONSIBLE FOR ASSURING THAT THESE PROCEDURES ARE FOLLOWED.

12. MASON'S AREA
    A. CONTRACTOR SHALL IDENTIFY MASON'S AREA ON THE SITE.
    B. TO THE EXTENT PRACTICAL, ALL MASONRY TOOLS, MATERIAL, INCLUDING SAND AND SACKED CEMENT OR MORTAR MATERIALS, AND EQUIPMENT SHALL BE LOCATED WITHIN THE AREA IDENTIFIED.
    C. RUNOFF CONTROL, SUCH AS BERMS OR DIVERSION OR DIVERSION DITCHES, SILT FENCE, STRAW WATTLES, OR OTHER MEANS OF CONTAINMENT SHALL BE PROVIDED TO PREVENT THE MIGRATION OF STORM WATER POLLUTANTS IN RUNOFF FROM THE MASON'S AREA.
    D. RECEPTACLES FOR DEBRIS AND TRASH DISPOSAL SHALL ALSO BE PROVIDED.

13. FUEL TANKS
    A. TEMPORARY ON-SITE FUEL TANKS FOR CONSTRUCTION VEHICLES SHALL MEET ALL STATE AND FEDERAL REGULATIONS. TANKS SHALL HAVE APPROVED SPILL CONTAINMENT WITH THE CAPACITY REQUIRED BY THE APPLICABLE REGULATIONS. THE TANKS SHALL BE IN SOUND CONDITION FREE OF RUST OR OTHER DAMAGE WHICH MIGHT COMPROMISE CONTAINMENT. FUEL STORAGE AREAS WILL MEET ALL EPA, OSHA AND OTHER REGULATORY REQUIREMENTS FOR SIGNAGE, FIRE EXTINGUISHER, ETC. HOSES, VALVES, FITTINGS, CAPS, FILLER NOZZLES, AND ASSOCIATES HARDWARE SHALL BE MAINTAINED IN PROPER WORKING CONDITION AT ALL TIMES.
    B. A SPILL PREVENTION, CONTROL AND COUNTERMEASURE (SPCC) PLAN MUST BE DEVELOPED IF ABOVE GROUND OIL STORAGE CAPACITY AT THE CONSTRUCTION SITE EXCEEDS 1,320 GALLONS. CONTAINERS WITH A STORAGE CAPACITY OF 55 GALLONS OR LESS ARE NOT INCLUDED WHEN CALCULATING SITE STORAGE CAPACITY. THE GENERAL CONTRACTOR SHALL WORK WITH THE ENGINEER TO DEVELOP AND IMPLEMENT A SPCC PLAN IN ACCORDANCE WITH THE OIL POLLUTION PREVENTION REGULATION AT TITLE 40 OF THE CODE OF FEDERAL REGULATIONS, PART 112 (40 CFR 112).

14. HAZARDOUS MATERIAL MANAGEMENT AND SPILL REPORTING PLAN
    A. ANY HAZARDOUS OR POTENTIALLY HAZARDOUS MATERIAL THAT IS BROUGHT ONTO THE CONSTRUCTION SITE WILL BE HANDLED PROPERLY IN ORDER TO REDUCE THE POTENTIAL FOR STORM WATER POLLUTION. ALL MATERIALS USED ON THIS CONSTRUCTION SITE WILL BE PROPERLY STORED, HANDLED. DISPENSED AND DISPOSED OF FOLLOWING ALL APPLICABLE LABEL DIRECTIONS. MATERIAL SAFETY DATA SHEETS (MSDS) INFORMATION WILL BE KEPT ON SITE FOR ANY AND ALL APPLICABLE MATERIALS.
    B. IN THE EVENT OF AN ACCIDENTAL SPILL, IMMEDIATE ACTION WILL BE UNDERTAKEN BY THE GENERAL CONTRACTOR TO CONTAIN AND REMOVE THE SPILLED MATERIAL. ALL HAZARDOUS MATERIALS WILL BE DISPOSED OF BY THE CONTRACTOR IN THE MANNER SPECIFIED BY FEDERAL, STATE AND LOCAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. AS SOON AS POSSIBLE, THE SPILL WILL BE REPORTED TO THE APPROPRIATE AGENCIES. AS REQUIRED UNDER THE PROVISIONS OF THE CLEAN WATER ACT, ANY SPILL OR DISCHARGE ENTERING WATERS OF THE UNITED STATES WILL BE PROPERLY REPORTED. THE GENERAL CONTRACTOR WILL PREPARE A WRITTEN RECORD OF ANY SPILL OF PETROLEUM PRODUCTS OR HAZARDOUS MATERIALS WITHIN 24 HOURS OF THE OCCURRENCE OF THE SPILL. A SPILL REPORT IS LOCATED IN APPENDIX F.
    C. ANY SPILLS OF PETROLEUM PRODUCTS OR HAZARDOUS MATERIALS IN EXCESS OF REPORTABLE QUANTITIES AS DEFINED BY EPA OR THE STATE OF LOCAL AGENCY REGULATIONS, SHALL BE IMMEDIATELY REPORTED TO THE EPA NATIONAL RESPONSE CENTER (1-800-424-8802). THE REPORTABLE QUANTITY FOR HAZARDOUS MATERIALS CAN BE FOUND IN 40 CFR 302. IN ORDER TO MINIMIZE THE POTENTIAL FOR A SPILL OF PETROLEUM PRODUCT OR HAZARDOUS MATERIALS TO COME IN CONTACT WITH STORM WATER, THE FOLLOWING STEPS WILL BE IMPLEMENTED.

    I. ALL MATERIALS WITH HAZARDOUS PROPERTIES WILL BE STORED IN A SECURE LOCATION, UNDER COVER, WHEN NOT IN USE.
    II. THE MINIMUM PRACTICAL QUANTITY OF ALL SUCH MATERIALS WILL BE KEPT ON THE JOB SITE AND SCHEDULED FOR DELIVERY AS CLOSE TO TIME OF USE AS PRACTICAL.
    III. A SPILL CONTROL AND CONTAINMENT KIT WILL BE PROVIDED AT THE STORAGE SITE.
    IV. ALL OF THE PRODUCT IN A CONTAINER WILL BE USED BEFORE THE CONTAINER IS DISPOSED OF. ALL SUCH CONTAINERS WILL BE TRIPLE RINSED WITH WATER PRIOR TO DISPOSAL. THE RINSE WATER USED IN THESE CONTAINERS WILL BE DISPOSED OF IN A MANNER IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS AND WILL NOT BE ALLOWED TO MIX WITH STORM WATER DISCHARGES.
    V. ALL PRODUCTS WILL BE STORED IN AND USED FROM THE ORIGINAL CONTAINER WITH THE ORIGINAL PRODUCT LABEL.
    VI. ALL PRODUCTS WILL BE USED IN STRICT COMPLIANCE WITH INSTRUCTIONS ON THE PRODUCT LABEL.
    VII. THE DISPOSAL OF EXCESS OR USED PRODUCTS WILL BE IN STRICT COMPLIANCE WITH INSTRUCTIONS OF THE PRODUCT LABEL.

15. BEST MANAGEMENT PRACTICE (BMP) MAINTENANCE
    A. IF SITE INSPECTIONS IDENTIFY BMP'S THAT ARE NOT OPERATING EFFECTIVELY, THE CONTRACTOR SHALL CONDUCT MAINTENANCE AS SOON AS PRACTICAL AND BEFORE THE NEXT STORM EVENT.
    B. IF SITE INSPECTIONS IDENTIFY A NEED, THE CONTRACTOR SHALL MODIFY BMP'S OR PROVIDE ADDITIONAL BMP'S AS NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND.OR SOUTH CAROLINA'S WATER QUALITY STANDARDS. IMPLEMENTATION SHALL BE BEFORE THE NEXT STORM EVENT WHERE PRACTICAL. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICAL, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMP'S MUST BE IMPLEMENTED AS SOON AS PRACTICAL.
    C. SEDIMENT FROM SEDIMENT TRAPS OR SEDIMENT PONDS MUST BE REMOVED AS INDICATED IN THE SWPPP OR WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT, WHICH EVER OCCURS FIRST.

16. SCDHEC INSPECTIONS
    A. RESPONSIBILITY - THE CONTRACTOR IS RESPONSIBLE FOR ALL INSPECTIONS.
    B. INSPECTION INTERVALS
    I. AT LEAST ONCE EVERY CALENDAR WEEK, WITH NO TIME PERIOD BETWEEN INSPECTIONS EXCEEDING 9 DAYS.
    II. WITHIN 24 HOURS OF THE END OF A STORM EVENT 1.0 INCH OR GREATER, AS WELL AS DURING THE FIRST RAIN EVENT AFTER THE INITIATION OF CONSTRUCTION ACTIVITIES.
    III. AFTER TEMPORARY STABILIZATION IS COMPLETE, THE CONTRACTOR SHALL INSPECT THE SITE AND ALL BMP'S AT LEAST ONCE PER MONTH.
    C. INSPECTION AREAS - INSPECTIONS SHALL INCLUDE:
    I. ALL AREAS OF THE SITE DISTURBED BY CONSTRUCTION ACTIVITY
    II. ALL AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
    D. INSPECTOR QUALIFICATION - INSPECTORS SHALL BE:
    I. A QUALIFIED INSPECTOR CERTIFIED THROUGH A CONSTRUCTION SITE INSPECTOR COURSE APPROVED BY DHEC.
    II. AN INDIVIDUAL WITH REGISTRATION EQUIVALENT TO THE SWPPP PREPARER.
    E. INSPECTORS SHALL INSPECT FOR:
    I. EVIDENCE/POTENTIAL OF POLLUTANTS ENTERING THE STORM WATER SYSTEM.
    II. PROPER OPERATION OF SEDIMENTATION AND EROSION CONTROL MEASURES BEST MANAGEMENT PRACTICES (BMP'S)
    III. DISCHARGE LOCATIONS TO MEASURE EFFECTIVENESS OF EROSION CONTROL MEASURES
    IV. CONSTRUCTION ENTRANCES FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING

17. SCDHEC INSPECTION REPORTS
    A. WEEKLY INSPECTION REPORTS - THE CONTRACTOR SHALL DOCUMENT ALL INSPECTIONS WITH A REPORT.
    I. WEEKLY INSPECTION REPORT CONTENTS -
    1. INSPECTION DATE
    2. INSPECTOR NAME
    3. INSPECTOR TITLE
    4. INSPECTOR QUALIFICATION
    5. WEATHER INFORMATION SINCE LAST INSPECTION OR SINCE CONSTRUCTION ACTIVITY STARTED:
       A. ESTIMATED START TIME OF EACH STORM EVENT
       B. ESTIMATED DURATION OF EACH STORM EVENT
       C. ESTIMATED RAINFALL AMOUNT IN INCHES OF EACH STORM EVENT
       D. DESCRIPTION OF DISCHARGES KNOWN TO OCCUR
    6. DESCRIPTION OF DISCHARGES OCCURRING AT TIME OF INSPECTION
    7. LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE
    8. LOCATION(S) OF BMP'S THAT NEED MAINTENANCE
    9. LOCATION(S) OF BMP'S THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION.
    10. LOCATION(S) WHERE ADDITIONAL BMP'S ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION.
    11. CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO THE SWPPP NECESSARY AND IMPLEMENTATION DATES.
    12. SIGNATURE IAW SECTION 1222.22 OF SC REGULATION 61-9
    B. MONTHLY SITE INSPECTION REPORT (SITE DISTURBING 10 ACRES OR MORE ONLY)
    I. MONTHLY SITE INSPECTION REPORT CONTENTS:
       1. SUMMARY OF WEEKLY INSPECTION REPORTS FOR THE MONTH.
    2. LISTING ALL DEFICIENCIES WITH:
       A. DATE OF DISCOVERY
       B. NAME, ADDRESS, TELEPHONE NUMBER OF PARTY RESPONSIBLE FOR CORRECTIVE ACTION
       C. STATEMENT WHETHER THIS DEFICIENCY WAS PREVIOUSLY LISTED IN A MONTHLY REPORT
    3. LISTING OF CORRECTIVE ACTIONS TAKEN WITH DATE.
    4. STATEMENT ON WHETHER SWPPP WAS UPDATED TO DEAL WITH DEFICIENCIES.
    5. COPY OF EACH INSPECTION REPORT CONDUCTED THAT MONTH AS AN APPENDIX.
    6. CO-PERMITTEE & NON-CO-PERMITTEE CERTIFICATIONS AS APPENDICES (ONE ORIGINAL AND ONE COPY)
    II. THE CONTRACTOR SHALL PREPARE AND SUBMIT MONTHLY REPORTS (ORIGINAL & ONE COPY) TO DHEC AND , IF APPLICABLE, THE APPROPRIATE MS4 ON OR BEFORE THE 28TH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD.
    III. MONTHLY REPORTS MUST BE SIGNED IAW SECTION 122.22 OF SC REGULATION 61-9.
    IV. THE CONTRACTOR SHALL SUBMIT THE FIRST MONTHLY REPORT TO DHEC AFTER CONSTRUCTION BEGINS ON THE FACILITY AND SHALL INCLUDE THE ORIGINAL AND ONE COPY OF ALL CO-PERMITTEE AND NON-CO-PERMITTEE CERTIFICATIONS.
    V. THE CONTRACTOR SHALL INCLUDE IN SUBSEQUENT MONTHLY REPORTS ADDED CO-PERMITTEE AND NON-CO-PERMITTEE CERTIFICATIONS SINCE THE FIRST MONTHLY REPORT.
    VI. THE CONTRACTOR MAY ESTABLISH ELECTRONIC METHODS OF MONTHLY REPORTING WITH DHEC AS APPROVED BY DHEC ON A CASE BY CASE BASIS.
    VII. UNTIL CONSTRUCTION STARTS, THE CONTRACTOR SHALL REPORT THAT CONSTRUCTION ACTIVITY HAS NOT STARTED.
    VIII. THE CONTRACTOR SHALL SUBMIT SUBMIT MONTHLY REPORTS UNTIL THE NOTICE OF TERMINATION IS SUBMITTED TO SCDHEC.
    IX. SIGNATURE IAW SECTION 122.22 OF SC REGULATION 61-9.
    C. INSPECTION REPORT RECORDS -
    I. ALL INSPECTION REPORTS SHALL BE ADDED TO THE SWPPP AND MAINTAINED IN ACCORDANCE WITH RECORD REQUIREMENTS.
    II. ONCE A DEFINABLE AREA HAS BEEN FINALLY STABILIZED, THE CONTRACTOR SHALL MARK THIS ON THE SWPPP AND NO FURTHER SWPPP OR INSPECTION REQUIREMENTS APPLY TO THAT PART OF THE SITE.

18. ACTIVITY LOG
    A. THE CONTRACTOR SHALL RECORD AND MAINTAIN WITH THE SWPPP AN ACTIVITY LOG OF THE FOLLOWING:
    I. START DATES OF MAJOR GRADING ACTIVITIES.
    II. TEMPORARY CEASE DATES OR PORTIONS OF THE SITE WHERE CONSTRUCTION HAS STOPPED FOR MORE THAN 14 DAYS.
    III. START DATES WHEN STABILIZATION MEASURES ARE INITIATED.

19. RECORDS
    A. AFTER RECEIVING FINAL APPROVAL AND AFTER FINAL STABILIZATION IS COMPLETE, THE CONTRACTOR SHALL SUPPLY THE OWNER/OPERATOR WITH ALL SWPPP DOCUMENTATION, INCLUDING BUT NOT LIMITED TO CO-PERMITTEE AND NON-CO-PERMITTEE CERTIFICATIONS.
    B. THE OWNER/OPERATOR SHALL MAINTAIN ALL SWPPP DOCUMENTATION FOR A PERIOD OF 3 YEARS FOLLOWING FINAL STABILIZATION, INCLUDING BUT NOT LIMITED TO CO-PERMITTEE AND NON-CO-PERMITTEE CERTIFICATIONS.

20. SWPPP AMENDMENTS
    A. THE CONTRACTOR SHALL AMEND THE SWPPP IN ACCORDANCE WITH THE REQUIREMENTS OF THE CGP WHEN:
    I. THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE AT THE CONSTRUCTION SITE THAT WILL CAUSE OR HAVE THE POTENTIAL TO CAUSE OR CONTRIBUTE TO VIOLATIONS TO SC'S WATER QUALITY STANDARDS.
    II. INSPECTIONS BY SITE OR REGULATORY STAFF DETERMINE THAT THE SWPPP IS INEFFECTIVE.
    III. INSPECTIONS REQUIRED MODIFIED OR ADDITIONAL BMP'S.
    IV. ALL SWPPP AMENDMENTS MUST BE IAW THE CGP AND COMPLETE WITHIN 7 CALENDAR DAYS OF INSPECTION.

21. ADDITIONAL SWPPPS
    A. FOR ANY STORM DRAINAGE OR OTHER DISCHARGE NOT SPECIFICALLY INCLUDED IN THIS SWPPP, THE CONTRACTOR SHALL PREPARE, SUBMIT AND OBTAIN APPROVAL FOR A SEPARATE SWPPP TO COVER THE PROPOSED ACTIVITY PRIOR TO ENGAGING IN THE PROPOSED ACTIVITY. THESE ACTIVITIES MAY INCLUDE BUT ARE NOT LIMITED TO DEDICATED ASPHALT PLANTS, DEDICATED CONCRETE PLANTS, ETC...
    B. THE CONTRACTOR SHALL ENSURE THAT ANY ADDITIONAL SWPPP'S DO NOT COMPROMISE OTHER RELATED SWPPP'S FOR THE PROJECT.

22. INDUSTRIAL DISCHARGES
    A. THIS SWPPP DOES NOT IN ANY WAY AUTHORIZE STORMWATER DISCHARGES FROM INDUSTRIAL ACTIVITY.

23. NOTICE OF TERMINATION (NOT)
    A. WITHIN 30 DAYS OF ACHIEVING FINAL STABILIZATION OF THE ENTIRE SITE, THE CONTRACTOR SHALL SUBMIT A NOTICE OF TERMINATION IAW THE CGP REQUIREMENTS. FINAL STABILIZATION IS DEFINED AS A MINIMUM OF 70% PERMANENT COVER ON 100% OF THE SITE.
    B. FOR SITES DISTURBING 2 ACRES OR MORE, THE CONTRACTOR SHALL INCLUDE, WITH THE NOT, A CERTIFICATION STATEMENT FROM THE PREPARER OF THE SWPPP OR OTHER PERSON WITH REGISTRATION EQUIVALENT TO THE PREPARER OF THE SWPPP THAT TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF ALL WORK WAS CONDUCTED AND COMPLETED IN ACCORDANCE WITH THE APPROVED SWPPP AND CGP. THIS CERTIFICATION MUST BE BASED ON THE INSPECTIONS PERFORMED IN ACCORDANCE WITH SUBPART 3.10 OF THE CGP AND MUST STATE THAT ANY DEFICIENCIES THAT WERE NOTED HAVE BEEN CORRECTED.

DEWATERING NOTES:

1. THE DESIGN, ADEQUACY AND OPERATION OF ANY AND ALL DEWATERING ACTIVITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
2. THE CONTRACTOR SHALL PROTECT ALL ADJACENT PROPERTIES, RIGHT OF WAYS, NATURAL AREAS AND EXISTING UTILITY SYSTEMS FROM EROSION AND SEDIMENTATION ASSOCIATED WITH DEWATERING ACTIVITIES.
3. DEWATERING DISCHARGES SHALL ALWAYS BE DIRECTED THROUGH SUITABLE BEST MANAGEMENT PRACTICE (BMP) SUCH AS A TEMPORARY SEDIMENT POND / TRAP OR SEDIMENT TRAPPING DEWATERING BAG.

SCDHEC STANDARD NOTES:

1. IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.

2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.
   - WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
   - WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.

3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY, OR INCORRECTLY, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.

4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.

5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.

7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C REG. 72-300 ET SEQ. AND SCR100000.

8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

9. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.

10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

11. A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.

12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.

13. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.

14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE;

15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.).

16. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
    - WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
    - WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;
    - FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
    - SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.

17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.

18. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.

19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

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STUDIO8 design
architecture
2722 North Oak Street
Valdosta, Georgia 31602
P.(229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

EMC ENGINEERING SERVICES, INC.
1306 East Washington St.
Greenville, SC 29607
Ph: (864) 252-3974
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PROJ NO: 24-3023

A HOUSING FACILITY FOR
NEWBERRY COUNTY
DETENTION CENTER
NEWBERRY, SOUTH CAROLINA

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 39863
JEREMY ROBERT HART

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JOB #	220006.01	
DATE	07/12/2024	

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REV. 01 IFP 07/12/2024	REV.
REV. BID SET 25 JUNE, 2025	REV.
REV.	REV.
REV.	REV.

SCDHEC NOTES

C0.2

NOT FOR CONSTRUCTION

N/F
CITY OF NEWBERRY
HOUSING AUTHORITY
DB 209-356
TAX ID: 286-3-29
ZONING: R-6 (HIGH DENSITY RES.)
USE: MULTI-FAMILY

1/2" IRF

SIDE ACCESSORY STRUCTURE SETBACK: 5-FT

BUFFER YARD: 20' TYPE C

N 66°54'48" E — 665.00'

N/F
HOUSING AUTHORITY OF THE
CITY OF NEWBERRY
DB 1638-109
PB AI-45
TAX ID: 286-3-21
ZONING: R-6 (HIGH DENSITY RESIDENTIAL)
USE: MULTI-FAMILY

33' R/W (D.B. 530-8)

PT

LT

15" RCP
IE: 516.73

15" RCP
IE: 514.05

15" RCP
IE: 513.73

15" RCP
IE: 514.04

15" RCP
IE: 513.84

STMH
GRATE: 513.73
IE: 509.76 24" RCP IN (W)
IE: 509.33 18" RCP IN (N)
IE: 508.10 15" RCP IN (E)
IE: 508.06 30" RCP OUT (S)

24" RCP
IE: 510.25

GRID NORTH
LOUIS RICH
Coinciding Street Name

STMH
TOP: 513.79
IE: 509.99 15" RCP OUT (W)

1 STORY
METAL
BUILDING

1 STORY
BRICK
BUILDING

SHED
10'x14'

SHED
12'x23'

SHED
10'x14'

BLDG

BLDG 6

TAX ID: 286-3-20
TOTAL AREA
5.23 ACRES
227,930 SF
ZONING: GC

GI-A
GI-B
GI-C
GI-D
GI-DA
GI-E
GI-F
GI-G
GI-H
GI-I
GI-J
GI-K
GI-L

ST CO
SS CO
CO
UGE
GAS
GM
WV
WM
MW
LP
PP
AC
ETR
GATE
TOWER
PUMP
UCAB
OHP

STMH-J
SSMH-1
STMH-A

T.B.M.
PKS #3
N: 896725.55
E: 1809541.54
EL: 509.25

SSMH
TOP: 508.05
IE: 500.69 8" CI IN (SW)
IE: 500.83 12" CI OUT (S)

STMH
TOP: 508.68
IE: 498.97 30" RCP IN (NW)
IE: 498.61 30" RCP OUT (S)

T.B.M.
FH TOP BOLT
N: 896584.51
E: 1809155.03
EL: 515.84

SSMH
TOP: 513.26
IE: 504.36 6" PVC IN (N)
IE: 504.18 6" PVC OUT (NE)

SPIGOT

12" RCP
IE: 514.60

12" RCP
IE: 514.38

4" CMF

1/2" IRF

N 32°33'41" W — 459.71'

S 35°11'33" E — 137.34'

S 63°20'15" W — 364.17'

APPROXIMATE 6" DIPRE LATERAL LOCATION

APPROXIMATE LOCATION

LOCATION PER SUE

APPROXIMATE LOCATION OF GAS MAIN

2' to 3'

FRONT SETBACK: 25-FT

46' R/W (D.B. 530-8)

LOUIS RICH ROAD
VARIABLE R/W

GRASS
CONCRETE
ASPHALT

N/F
RNB INVESTMENT
GROUP 2017, LLC.
DB 2296-156
PB AI-18
TAX ID: 286-3-31
ZONING: G-C (GENERAL COMMERCIAL)
USE: MULTI-FAMILY

N/F
GPM SOUTHEAST, LLC.
DB 1942-184
PB AI-18
TAX ID: 286-3-19
ZONING: G-C (GENERAL COMMERCIAL)
USE: COMMERCIAL

N/F
TOM ABRAHAM
LAND SURVEYING, LLC.
DB 1295-313
PB C182-6
TAX ID: 286-3-18
ZONING: G-C (GENERAL COMMERCIAL)
USE: COMMERCIAL

LINE TABLE		
LINE #	DIRECTION	LENGTH
L16	S03° 03' 02"W	353.94
L17	N86° 55' 20"W	12.95
L18	S03° 05' 05"W	132.25

HATCH LEGEND:

EXISTING ASPHALT

EXISTING CONCRETE

STORM DRAINAGE LINE INFORMATION

STMH-A
TOP=509.31
IE: 505.21 30" RCP IN (N)
IE: 505.06 30" RCP OUT (SE)
IE: 500.37 BOTTOM CHAMBER

GI-B
GRATE: 511.28
IE: 508.28 6" PVC IN (SW)
IE: 507.87 15" RCP OUT (GI-C)

GI-C
GRATE: 512.25
IE: 507.04 15" RCP IN (GI-B)
IE: 506.94 15" RCP OUT (GI-D)

GI-D
GRATE: 511.66
IE: 508.06 12" PVC IN (NE)
IE: 506.70 15" RCP IN (GI-E)
IE: 506.44 15" RCP IN (GI-C)
IE: 506.41 15" RCP OUT (SE)

GI-DA
GRATE: 511.01
IE: 505.93 15" RCP IN (GI-D)
IE: 505.86 15" RCP OUT

GI-E
GRATE: 512.26
IE: 507.50 15" RCP IN (GI-F)
IE: 507.45 15" RCP OUT (GI-D)

GI-F
GRATE: 512.14
IE: 510.88 6" PVC IN (ROOF DRAIN)
IE: 509.79 6" PVC IN (NW)
IE: 507.94 15" RCP OUT (GI-E)

GI-G
GRATE: 511.71
IE: 509.11 10" PVC IN (W)
IE: 509.05 12" PVC OUT (GI-H)

GI-H
GRATE: 511.13
IE: 509.81 6" PVC IN (SE)
IE: 508.48 12" PVC IN (GI-G)
IE: 508.44 12" PVC OUT(GI-I)

GI-I
GRATE: 511.35
IE: 508.69 8" CI IN (SW)
IE: 508.50 8" CI IN (SE)
IE: 508.10 15" RCP IN (GI-H)
IE: 507.85 24" RCP OUT (STMH-J)

STMH-J
TOP: 511.86
IE: 507.66 24" RCP IN (GI-I)
IE: 507.61 24" RCP OUT (GI-K)

GI-K
GRATE: 511.50
IE: 507.63 24" RCP IN (STMH-J)
IE: 506.52 30" RCP OUT (SE)

GI-L
GRATE =: 512.09
IE: 511.17 3" PVC IN (W)
IE: 511.08 3" PVC IN (E)
IE: 509.61 8" CI OUT (NE)

SANITARY SEWER LINE INFORMATION

SSMH-1
TOP: 512.07
IE: 508.01 3" PVC IN (NW)
IE: 507.98 3" PVC OUT (SE)

SSMH-2 GREASE TRAP
TOP: 512.47

SSMH-3 GREASE TRAP
TOP: 512.48

SSMH-4
TOP: 512.27
IE: 508.31 6" PVC IN (SSMH-3)
IE: 507.34 6" PVC OUT (SE)

STMH
TOP: 505.68
IE: 500.08 24" RCP OUT (S)

STMH
TOP: 503.32
IE: 497.84 18" RCP IN (S)
IE: 497.93 24" RCP IN (N)
IE: 497.42 24" RCP OUT (NE)

20' 10' 0' 20'
GRAPHIC SCALE: 1"=20'-0"

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architecture
2722 North Oak Street
Valdosta, Georgia 31602
P. (229) 244-1188
info@s8darchitects.com
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EMC ENGINEERING SERVICES, INC.
1306 East Washington St.
Greenville, SC 29607
Ph: (864) 252-3974
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PROJ NO: 24-3023

A HOUSING FACILITY FOR
NEWBERRY COUNTY
DETENTION CENTER
NEWBERRY, SOUTH CAROLINA

SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 33863
JEREMY ROBERT HAY

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JOB #	220006.01	
DATE	07/12/2024	© 2024 STUDIO8 design, LLC

REV.	01 07/12/2024	REV.	
REV.	BID SET 25 JUNE, 2025	REV.	
REV.		REV.	
REV.		REV.	

EXISTING CONDITIONS

C1.0

O:\2024\24-3023 NEWBERRY DET CENTER ENGINEERING (NEWBERRY ISC)\DWG\24-3023C_B01.DWG 7/15/2024 11:50 AM

N/F
CITY OF NEWBERRY
HOUSING AUTHORITY
DB 209-356
TAX ID: 286-3-29
ZONING: R-6 (HIGH DENSITY RES.)
USE: MULTI-FAMILY

1/2" IRF

SIDE ACCESSORY STRUCTURE SETBACK: 5-FT

BUFFER YARD: 20' TYPE C

N 66°54'48" E — 665.00'

N/F
HOUSING AUTHORITY OF THE
CITY OF NEWBERRY
DB 1638-109
PB AI-45
TAX ID: 286-3-21
ZONING: R-6 (HIGH DENSITY RESIDENTIAL)
USE: MULTI-FAMILY

33' R/W (D.B. 530-8)

PT

L1

STMH
GRATE: 513.73
IE: 509.76 24" RCP IN (W)
IE: 509.33 18" RCP IN (N)
IE: 508.10 15" RCP IN (E)
IE: 508.06 30" RCP OUT (S)

24" RCP
IE: 510.25

STMH
TOP: 513.79
IE: 509.99 15" RCP OUT (W)

Grid North
Matches Survey Datum

15" RCP
IE: 516.73

15" RCP
IE: 514.05

15" RCP
IE: 513.73

15" RCP
IE: 514.04

15" RCP
IE: 513.84

1 STORY
METAL
BUILDING

SHED
10'x14'

TAX ID: 286-3-20
TOTAL AREA
5.23 ACRES
227,930 SF
ZONING: GC

1 STORY
BRICK
BUILDING

SHED
10'x12'

BLDG 6

TOWER

PUMP

SAW CUT LIMITS

REMOVE 217 LF OF CHAIN LINK FENCE

REMOVE 782 SF OF CONCRETE

REMOVE TRANSFORMER PAD
(SEE SITE ELECTRICAL PLAN)

REMOVE 66 LF OF HEADER CURB

REMOVE 11 LF OF HEADER CURB

SAW CUT AT DEMOLITION LIMITS

SAW CUT AT DEMOLITION LIMITS

RELOCATE SHED (BY OWNER)
CONTRACTOR TO COORDINATE

REMOVE/RELOCATE
MONITORING WELL.
CONTRACTOR TO COORDINATE
WITH NEWBERRY COUNTY'S
ENVIRONMENTAL CONSULTANT.

REMOVE 57 LF OF SANITARY PIPE

REMOVE 720 SF OF ASPHALT

REMOVE 163 LF OF ELECTRIC LINE

REMOVE 5,450 SF OF CONCRETE

REMOVE UGE BOX

REMOVE 52 LF OF ELECTRIC LINE

REMOVE/RELOCATE
MONITORING WELL.
CONTRACTOR TO COORDINATE
WITH NEWBERRY COUNTY'S
ENVIRONMENTAL CONSULTANT.

REMOVE 225 LF OF WATER MAIN

SAW CUT AT DEMOLITION LIMITS

REMOVE 620 SF OF CONCRETE

REMOVE 3,355 SF OF ASPHALT

REMOVE 184 LF OF SANITARY PIPE

REMOVE 58 LF OF CHAIN LINK FENCE

REMOVE MANHOLE
SSMH
TOP: 513.26
IE: 504.36 6" PVC IN (N)
IE: 504.18 6" PVC OUT (NE)

REMOVE/RELOCATE
MONITORING WELL.
CONTRACTOR TO COORDINATE
WITH NEWBERRY COUNTY'S
ENVIRONMENTAL CONSULTANT.

REMOVE LIGHT POST
(CONTRACTOR TO COORDINATE WITH
ELECTRIC PROVIDER AS REQUIRED)

REMOVE 20 LF OF 12" RCP

12" RCP
IE: 514.60

12" RCP
IE: 514.38

REMOVE SHED

REMOVE LIGHT POST
(CONTRACTOR TO COORDINATE WITH
ELECTRIC PROVIDER AS REQUIRED)

REMOVE 280 LF OF UNDERGROUND ELECTRIC LINE

REMOVE 79 LF OF OVERHEAD ELECTRIC LINE

REMOVE SPIGOT

REMOVE
163 SF OF CONCRETE

SHED
10'x14'

SPIGOT

APPROXIMATE LOCATION

LOCATION PER SUE

GRASS

FRONT SETBACK: 20-FT

APPROXIMATE LOCATION OF GAS MAIN

LOUIS RICH ROAD
VARIABLE R/W

GRASS

BUFFER YARD: 20' TYPE C

SIDE ACCESSORY STRUCTURE SETBACK: 5-FT

364.17' — S 63°20'15" W

EXISTING MONITORING WELL IN
CONFLICT OR POTENTIALLY IN
CONFLICT WITH PROPOSED
PROJECT, TYP.

4" CMF

1/2" IRF

N 32°33'41" W — 459.71'

S 33°11'33" E — 137.34' (TIE)

LINE TABLE		
LINE #	DIRECTION	LENGTH
L16	S03° 03' 02"W	353.94
L17	N86° 55' 20"W	12.95
L18	S03° 05' 05"W	132.25

N/F
RNB INVESTMENT
GROUP 2017, LLC.
DB 2296-156
PB AI-18
TAX ID: 286-3-31
ZONING: G-C (GENERAL COMMERCIAL)
USE: MULTI-FAMILY

N/F
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TAX ID: 286-3-19
ZONING: G-C (GENERAL COMMERCIAL)
USE: COMMERCIAL

N/F
TOM ABRAHAM
LAND SURVEYING, LLC.
DB 1295-313
PB C182-6
TAX ID: 286-3-18
ZONING: G-C (GENERAL COMMERCIAL)
USE: COMMERCIAL

45' R/W (D.B. 530-8)

STMH
TOP: 505.68
IE: 500.08 24" RCP OUT (S)

STMH
TOP: 503.32
IE: 497.84 18" RCP IN (S)
IE: 497.93 24" RCP IN (N)
IE: 497.42 24" RCP OUT (NE)

STMH-A

SSMH
TOP: 508.05
IE: 500.69 8" CI IN (SW)
IE: 500.83 12" CI OUT (S)

STMH
TOP: 508.68
IE: 498.97 30" RCP IN (NW)
IE: 498.61 30" RCP OUT (S)

HATCH LEGEND:

EXISTING ASPHALT

EXISTING CONCRETE

DEMOLITION AREA

20' 10' 0' 20'
GRAPHIC SCALE: 1"=20'-0"

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Call 811 Before you Dig

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CHECKED	JRH	
JOB #	220006.01	
DATE	07/12/2024	© 2024 STUDIO8 design, LLC

REV.	01 IFP 07/12/2024	REV.	
REV.	BID SET 25 JUNE 2025	REV.	
REV.		REV.	
REV.		REV.	

DEMOLITION PLAN

C2.0

G:\2024\24-3023 NEWBERRY JDET CENTER ENGINEERING (NEWBERRY SC)\DWG\24-3023C_BP1.DWG 7/15/2024 11:50 AM

N/F
CITY OF NEWBERRY
HOUSING AUTHORITY
DB 209-356
TAX ID: 286-3-29
ZONING: R-6 (HIGH DENSITY RES.)
USE: MULTI-FAMILY

1/2" IRF

SIDE ACCESSORY STRUCTURE SETBACK: 5-FT

BUFFER YARD: 20' TYPE C

N 66°54'48" E — 665.00'

PT

33' R/W (D.B. 530-B)

L1

15" RCP
IE: 516.73

15" RCP
IE: 514.05

15" RCP
IE: 514.04

15" RCP
IE: 513.73

15" RCP
IE: 513.84

N/F
HOUSING AUTHORITY OF THE
CITY OF NEWBERRY
DB 1638-109
PB AI-45
TAX ID: 286-3-21
ZONING: R-6 (HIGH DENSITY RESIDENTIAL)
USE: MULTI-FAMILY

GRID NORTH
NAD83 South Carolina State Plane

STMH
GRATE: 513.73
IE: 509.76 24" RCP IN (W)
IE: 509.33 18" RCP IN (N)
IE: 508.10 15" RCP IN (E)
IE: 508.06 30" RCP OUT (S)

24" RCP
IE: 510.25

STMH
TOP: 513.79
IE: 509.99 15" RCP OUT (W)

1 STORY
METAL
BUILDING

SHED
10'x14'

TAX ID: 286-3-20
TOTAL AREA
5.23 ACRES
227,930 SF
ZONING: GC

1 STORY
BRICK
BUILDING

UCAB

GM

WM

WV

PP

STMH-A

SSMH
TOP: 508.05
IE: 500.69 8" CI IN (SW)
IE: 500.83 12" CI OUT (S)

STMH
TOP: 508.68
IE: 498.97 30" RCP IN (NW)
IE: 498.61 30" RCP OUT (S)

N/F
RNB INVESTMENT
GROUP 2017, LLC.
DB 2296-156
PB AI-18
TAX ID: 286-3-31
ZONING: G-C (GENERAL COMMERCIAL)
USE: MULTI-FAMILY

N 32°33'41" W — 459.71'

BUFFER YARD: 20' TYPE C

BOLLARDS

N: 896664.33
E: 1809074.65

N: 896654.44
E: 1809057.27

N: 896676.66
E: 1809178.70

N: 896681.45
E: 1809188.16

COVERED WALKWAY ROOF
(SEE ARCHITECTURAL PLAN)

COVERED WALKWAY (SEE ARCHITECTURAL PLAN)

N: 896613.33
E: 1809103.67

N: 896609.25
E: 1809116.91

N: 896604.68
E: 1809085.59

N: 896593.73
E: 1809086.07

N: 896616.32
E: 1809130.95

N: 896605.80
E: 1809136.30

N: 896602.43
E: 1809185.21

N: 896590.43
E: 1809161.36

N: 896635.99
E: 1809232.82

DUMPSTERS

N: 896583.60
E: 1809140.39

N: 896598.80
E: 1809200.80

N: 896627.69
E: 1809263.74

24-LF 6' BARBED WIRE
CHAIN LINK FENCE (SEE DETAIL)

N: 896628.16
E: 1809276.16

4' WIDE GATE (SEE DETAIL)

N: 896625.78
E: 1809277.36

N: 896624.86
E: 1809286.73

CONNECT INTO EXISTING
CHAIN LINK FENCE

N: 896612.96
E: 1809228.93

N: 896588.91
E: 1809194.56

N: 896614.01
E: 1809292.49

N: 896616.45
E: 1809302.02

N: 896612.14
E: 1809300.60

N: 896622.90
E: 1809317.80

N: 896535.59
E: 1809119.15

N: 896561.90
E: 1809159.90

N: 896582.84
E: 1809226.63

N: 896606.43
E: 1809331.12

N: 896623.06
E: 1809371.71

N: 896620.10
E: 1809372.84

N: 896529.14
E: 1809128.57

N: 896547.90
E: 1809172.52

BOLLARDS

N: 896580.24
E: 1809236.76

N: 896576.64
E: 1809229.61

N: 896609.46
E: 1809299.73

N: 896609.74
E: 1809324.42

N: 896547.01
E: 1809175.20

N: 896535.60
E: 1809161.33

N: 896534.28
E: 1809161.17

N: 896515.88
E: 1809164.88

N: 896504.21
E: 1809171.52

N: 896482.31
E: 1809183.98

N: 896468.39
E: 1809198.61

N: 896461.72
E: 1809211.79

N: 896461.71
E: 1809229.81

DETENTION CENTER
11,900 SF
FFE: 514.5

139.5'

N: 896580.30
E: 1809331.40

N: 896581.30
E: 1809329.79

N: 896533.15
E: 1809338.36

N: 896557.59
E: 1809367.45

N: 896517.24
E: 1809340.12

N: 896532.26
E: 1809341.05

N: 896582.06
E: 1809396.90

N: 896580.33
E: 1809389.49

CONNECT INTO EXISTING
CHAIN LINK FENCE

APPROXIMATE LOCATION OF GAS MAIN

FRONT SETBACK: 25-FT

LOUIS RICH ROAD
VARIABLE R/W

N: 896461.00
E: 1809167.35

N: 896467.73
E: 1809212.87

N: 896470.42
E: 1809213.76

N: 896544.75
E: 1809386.42

54-LF 6' BARBED WIRE CHAIN
LINK FENCE (SEE DETAIL)

20-LF ROLL GATE

N: 896504.39
E: 1809359.08

N: 896441.06
E: 1809233.29

364.17' — S 63°20'15" W

STMH
TOP: 505.68
IE: 500.08 24" RCP OUT (S)

1/2" IRF

4" CMF

S 33°11'33" E

137.34' (TIE)

46' R/W (D.B. 530-B)

N/F
GPM SOUTHEAST, LLC.
DB 1942-184
PB AI-18
TAX ID: 286-3-19
ZONING: G-C (GENERAL COMMERCIAL)
USE: COMMERCIAL

N/F
TOM ABRAHAM
LAND SURVEYING, LLC.
DB 1295-313
PB C182-6
TAX ID: 286-3-18
ZONING: G-C (GENERAL COMMERCIAL)
USE: COMMERCIAL

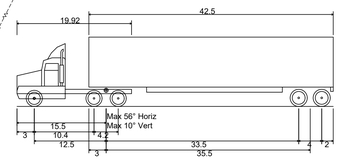
STMH
TOP: 503.32
IE: 497.84 18" RCP IN (S)
IE: 497.93 24" RCP IN (N)
IE: 497.42 24" RCP OUT (NE)

LINE TABLE		
LINE#	DIRECTION	LENGTH
L16	S03° 03' 02"W	353.94
L17	N86° 55' 20"W	12.95
L18	S03° 05' 05"W	132.25

VEHICULAR SWEPT PATH ANALYSIS:

AUTODESK VEHICLE TRACKING 2022 (AUTODESK, INC.) SOFTWARE WAS UTILIZED TO SIMULATE VEHICLE MOVEMENT(S) SHOWN ON THIS EXHIBIT. ACTUAL VEHICULAR MOVEMENTS MAY VARY DEPENDING ON PAVEMENT GRADES AND OTHER SITE CONDITIONS NOT MODELED BY THE SOFTWARE.

VEHICLE MODELED: WB-50 INTERMEDIATE SEMI-TRAILER



WB-50 - Intermediate Semi-Trailer	
Overall Length	55.000ft
Overall Width	8.500ft
Overall Body Height	12.052ft
Min Body Ground Clearance	1.334ft
Max Track Width	8.500ft
Lck-to-lock time	6.00s
Max Steering Angle (Virtual)	17.90°

HATCH LEGEND:

- EXISTING ASPHALT
- PROPOSED HEAVY DUTY ASPHALT
- PROPOSED HEAVY DUTY RIGID PAVEMENT
- EXISTING CONCRETE
- PROPOSED CONCRETE SIDEWALK
- PROPOSED LANDSCAPE AREA (LANDSCAPE PLANTING NIC)

GRAPHIC SCALE: 1"=20'-0"

South Carolina 811
Call 811 Before you Dig

NOT FOR CONSTRUCTION

D:\2024\24-3023 NEWBERRY JET CENTER ENGINEERING (NEWBERRY SC)\DWG\24-3023C_BSY.DWG 7/15/2024 11:50 AM

STUDIO8 design
architecture
2722 North Oak Street
Valdosta, Georgia 31602
P.(229) 244-1188
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EMC ENGINEERING SERVICES, INC.
1306 East Washington St.
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ALBANY • ATLANTA • AUGUSTA • BRUNSWICK • COLUMBUS
GREENVILLE • SAVANNAH • STATESBORO • THOMASTON

PROJ NO: 24-3023

A HOUSING FACILITY FOR
NEWBERRY COUNTY DETENTION CENTER
NEWBERRY, SOUTH CAROLINA

SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 39863
Robert Hyde
ROBERT HYDE

DRAWN	M.L.M	THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND MAY NOT BE REPRODUCED OR REUSED WITHOUT PERMISSION AND CREDIT.
CHECKED	J.P.H	
JOB #	220006.01	
DATE	07/12/2024	© 2024 STUDIO8 design, LLC

REV.	01 RP 07/12/2024	REV.	
REV.	BID SET 25 JUNE 2025	REV.	
REV.		REV.	
REV.		REV.	

STAKING PLAN

C3.0

N/F
CITY OF NEWBERRY
HOUSING AUTHORITY
DB 209-356
TAX ID: 286-3-29
ZONING: R-6 (HIGH DENSITY RES.)
USE: MULTI-FAMILY

1/2" IRF

SIDE ACCESSORY STRUCTURE SETBACK: 5-FT

BUFFER YARD: 20' TYPE C

N 66°54'48" E — 665.00'

33' R/W (D.B. 530-B)

PT

L1

15" RCP
IE: 516.73

15" RCP
IE: 514.05

15" RCP
IE: 514.04

15" RCP
IE: 513.73

15" RCP
IE: 513.84

N/F
HOUSING AUTHORITY OF THE
CITY OF NEWBERRY
DB 1638-109
PB A1-45
TAX ID: 286-3-21
ZONING: R-6 (HIGH DENSITY RESIDENTIAL)
USE: MULTI-FAMILY

GRID NORTH
NAD83 South Carolina State Plane

STMH
GRATE: 513.73
IE: 509.76 24" RCP IN (W)
IE: 509.33 18" RCP IN (N)
IE: 508.10 15" RCP IN (E)
IE: 508.06 30" RCP OUT (S)

24" RCP
IE: 510.25

STMH
TOP: 513.79
IE: 509.99 15" RCP OUT (W)

1 STORY
METAL
BUILDING

SHED
10'x14'

TAX ID: 286-3-20
TOTAL AREA
5.23 ACRES
227,930 SF
ZONING: GC

1 STORY
BRICK
BUILDING

SHED

BLDG

BLDG 6

TOWER

78" X 60"
TRANSFORMER PAD
(SEE SITE ELECTRICAL
PLAN)

UNDERGROUND
ELECTRIC SUPPLY
(SEE SITE ELECTRICAL
PLAN)

(4) - 2" CONDUITS. FIELD VERIFY ROUTING
REFER TO SITE PLAN - SECURITY AND LOW VOLTAGE

SS-04A (CO)
TOP:512.12
IE IN (N): 504.38 (ESIMATED)
IE IN (NW): 504.38 (ESTIMATED)
IE OUT(SE):504.38
CONTRACTOR TO VERIFY

12 LF 6" PVC @ 1.86%

SS-04 (CO)
TOP:512.40
IE IN (W):504.15
IE IN (NW):504.15
IE OUT(E):504.15

10 LF 8" PVC @ 2.00%

SS-03 (CO)
TOP:513.59
IE IN (W):503.95
IE OUT(SE):503.95

101 LF 6" PVC @ 1.50%

SS-05 (CO)
TOP:513.57
IE OUT(E):505.67 (ESTIMATED)
CONTRACTOR TO VERIFY

SS-02 (DROP INLET)
TOP:513.05
IE IN (NW):503.10
IE IN (S):509.92
(OUTSIDE DROP CONNECTION)
IE OUT(NE):502.99 (ESTIMATED)
CONTRACTOR TO VERIFY

19 LF 6" PVC @ 2.00%

GAS METER SET TO
DELIVER 2 PSI PRESSURE
INSTALLED BY GAS PROVIDER

SEE MEP PLAN FOR
CONTINUATION

5 LF 6" PVC @ 2.00%

SEE MEP PLAN FOR CONTINUATION (1)
IE OUT(NE):510.50

SS-01 (CO)
TOP:513.83
IE IN (SW):510.40
IE OUT(N):510.30

DETENTION CENTER
11,900 SF
FFE: 514.5

SEE MEP PLAN FOR CONTINUATION

9-LF 4" DI FIRE RISER

6" X 6" X 4" TEE

45° ELBOW

390-LF 6" DI FIRE LATERAL

225-LF 3" SDR-21 PVC
DOMESTIC WATER

GENERATOR PAD
(SEE SITE ELECTRICAL
PLAN)

(2) - 1" CONDUITS TO NEW GATE.
REFER TO SITE PLAN - SECURITY
AND LOW VOLTAGE

CONNECT TO EXISTING FIRE LATERAL
VIA 22.5° ELBOW

45° ELBOW

APPROXIMATE LOCATION — LOCATION PER SUE

POTENTIAL GAS LATERAL
LOCATION DESIGNED AND
INSTALLED BY GAS PROVIDER

TAP PROVIDED BY
THE CITY OF NEWBERRY
AND COORDINATED BY CONTRACTOR

3" WATER METER
(PROVIDED AND INSTALLED
BY THE CITY OF NEWBERRY AND
COORDINATED BY CONTRACTOR)

FRONT SETBACK: 25-FT

APPROXIMATE LOCATION OF GAS MAIN

LOUIS RICH ROAD
VARIABLE R/W

UCAB

STMH-A

SSMH
TOP: 508.05
IE: 500.69 8" CI IN (SW)
IE: 500.83 12" CI OUT (S)

STMH
TOP: 508.68
IE: 498.97 30" RCP IN (NW)
IE: 498.61 30" RCP OUT (S)

N/F
RNB INVESTMENT
GROUP 2017, LLC.
DB 2296-156
PB A1-18
TAX ID: 286-3-31
ZONING: G-C (GENERAL COMMERCIAL)
USE: MULTI-FAMILY

(4) - 2" CONDUITS.
FIELD VERIFY ROUTING
REFER TO SITE PLAN -
SECURITY AND LOW VOLTAGE

CONNECT TO EXISTING
FIRE LATERAL VIA 45° ELBOW

45° ELBOW

N 32°33'41" W — 459.71'

BUFFER YARD: 20' TYPE C

SIDE ACCESSORY STRUCTURE SETBACK: 5-FT

364.17' — S 63°20'15" W

STMH
TOP: 505.68
IE: 500.08 24" RCP OUT (S)

1/2" IRF

4" CMF

S 33°11'33" E — 137.34' (TIE)

N/F
GPM SOUTHEAST, LLC.
DB 1942-184
PB A1-18
TAX ID: 286-3-19
ZONING: G-C (GENERAL COMMERCIAL)
USE: COMMERCIAL

N/F
TOM ABRAHAM
LAND SURVEYING, LLC.
DB 1295-31.3
PB C182-6
TAX ID: 286-3-18
ZONING: G-C (GENERAL COMMERCIAL)
USE: COMMERCIAL

45' R/W (D.B. 530-B)

STMH
TOP: 503.32
IE: 497.84 18" RCP IN (S)
IE: 497.93 24" RCP IN (N)
IE: 497.42 24" RCP OUT (NE)

LINE TABLE		
LINE#	DIRECTION	LENGTH
L16	S03° 03' 02"W	353.94
L17	N86° 55' 20"W	12.95
L18	S03° 05' 05"W	132.25

HATCH LEGEND:

- EXISTING ASPHALT
- PROPOSED HEAVY DUTY ASPHALT
- PROPOSED HEAVY DUTY RIGID PAVEMENT
- EXISTING CONCRETE
- PROPOSED CONCRETE SIDEWALK
- PROPOSED LANDSCAPE AREA (LANDSCAPE PLANTING NIC)

GRAPHIC SCALE: 1"=20'-0"

South Carolina 811
Call 811 Before you Dig

NOT FOR CONSTRUCTION

STUDIO8 design
architecture
2722 North Oak Street
Valdosta, Georgia 31602
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info@s8darchitects.com
www.s8darchitects.com

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ALBANY • ATLANTA • AUGUSTA • BRUNSWICK • COLUMBUS
GREENVILLE • SAVANNAH • STATESBORO • THOMASTON

PROJ NO: 24-3023

A HOUSING FACILITY FOR
NEWBERRY COUNTY DETENTION CENTER
NEWBERRY, SOUTH CAROLINA

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 39983
JEREMY ROBERTS

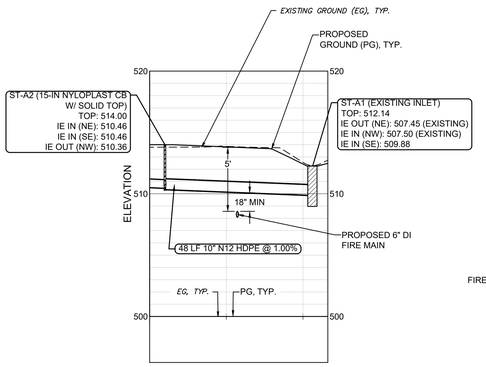
DRAWN	MLM	THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND MAY NOT BE REPRODUCED OR REUSED WITHOUT PERMISSION AND CREDIT.
CHECKED	JRH	
JOB #	220006.01	
DATE	07/12/2024	© 2024 STUDIO8 design, LLC

REV.	01 PP 07/12/2024	REV.	
REV.	BID SET 25 JUNE, 2025	REV.	
REV.		REV.	
REV.		REV.	

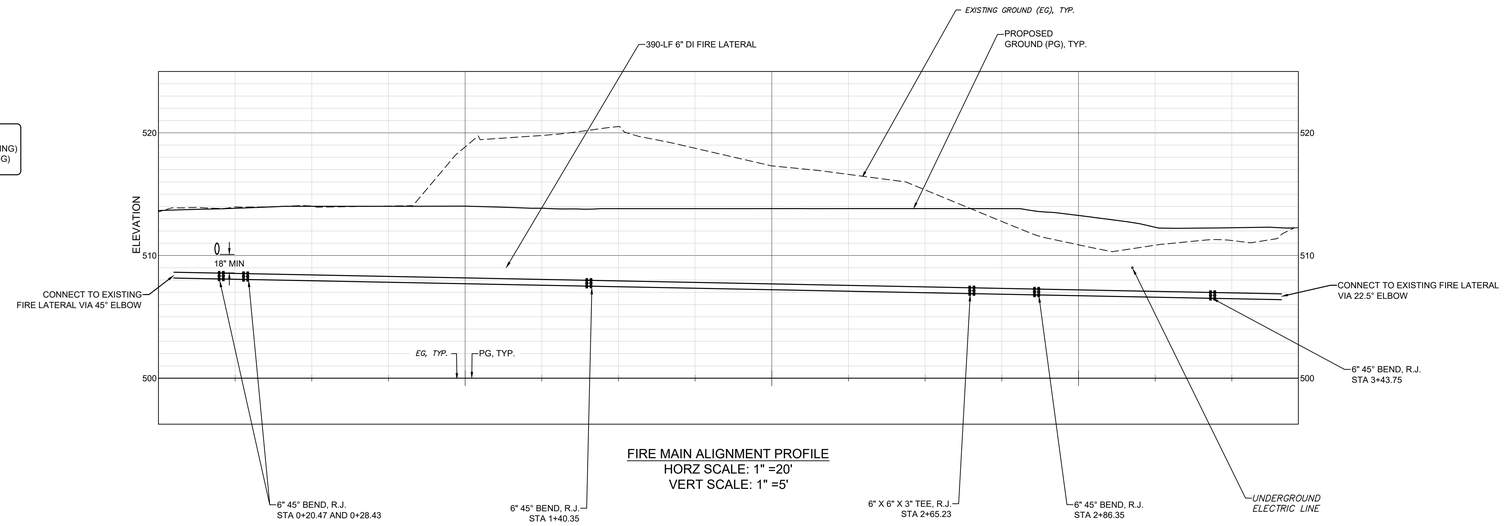
UTILITY PLAN

C4.0

G:\2024\24-3023 NEWBERRY DET. CENTER ENGINEERING (NEWBERRY SC)\DWG\24-3023S_BP1.DWG 7/15/2024 11:59 AM



ST-01 TO ST-03 ALIGNMENT PROFILE
HORZ SCALE: 1" =20'
VERT SCALE: 1" =5'



FIRE MAIN ALIGNMENT PROFILE
HORZ SCALE: 1" =20'
VERT SCALE: 1" =5'

20' 10' 0' 20'
GRAPHIC SCALE: 1"=20'-0"

NOT FOR CONSTRUCTION

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GREENVILLE • SAVANNAH • STATESBORO • THOMASTON

PROJ NO: 24-3023

A HOUSING FACILITY FOR
NEWBERRY COUNTY DETENTION CENTER
NEWBERRY, SOUTH CAROLINA

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 39863
JEREMY ROBERT HAY

DRAWN	MLM	THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND MAY NOT BE REPRODUCED OR REUSED WITHOUT PERMISSION AND CREDIT.
CHECKED	JRH	
JOB #	220006.01	
DATE	07/12/2024	© 2024 STUDIO8 design, LLC

REV.	01 PP 07/12/2024	REV.	
REV.	BID SET 25 JUNE, 2025	REV.	
REV.		REV.	
REV.		REV.	

PROFILES

C5.0

South Carolina 811 Call 811 Before you Dig

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N/F
CITY OF NEWBERRY
HOUSING AUTHORITY
DB 209-356
TAX ID: 286-3-29
ZONING: R-6 (HIGH DENSITY RES.)
USE: MULTI-FAMILY

1/2" IRF

SIDE ACCESSORY STRUCTURE SETBACK: 5-FT

BUFFER YARD: 20' TYPE C

BUFFER YARD: 20' TYPE C

N 32°33'41" W 459.71'

N/F
RNB INVESTMENT
GROUP 2017, LLC.
DB 2296-156
PB AI-18
TAX ID: 286-3-31
ZONING: G-C (GENERAL COMMERCIAL)
USE: MULTI-FAMILY

N/F
GPM SOUTHEAST. LLC.
DB 1942-184
PB AI-18
TAX ID: 286-3-19
ZONING: G-C (GENERAL COMMERCIAL)
USE: COMMERCIAL

4" CMF

S 33°11'33" E 137.34' (M&E)

N/F
HOUSING AUTHORITY OF THE
CITY OF NEWBERRY
DB 1638-109
PB AI-45
TAX ID: 286-3-21
ZONING: R-6 (HIGH DENSITY RESIDENTIAL)
USE: MULTI-FAMILY

N 66°54'48" E — 665.00'

33' R/W (D.B. 530-B)

PT

L1

STMH
GRATE: 513.73
IE: 509.76 24" RCP IN (W)
IE: 509.33 18" RCP IN (N)
IE: 508.10 15" RCP IN (E)
IE: 508.06 30" RCP OUT (S)

24" RCP
IE: 510.25

STMH
TOP: 513.79
IE: 509.99 15" RCP OUT (W)

GRID NORTH
MAGNETIC NORTH
Coweeta Station

15" RCP
IE: 516.73

15" RCP
IE: 514.05

15" RCP
IE: 513.73

15" RCP
IE: 514.04

15" RCP
IE: 513.84

1 STORY
METAL
BUILDING

SHED
10'x14'

TAX ID: 286-3-20
TOTAL AREA
5.23 ACRES
227,930 SF
ZONING: GC

1 STORY
BRICK
BUILDING

SHED

BLDG 2

BLDG 6

TOWER

PUMP

PROVIDE POSITIVE
DRAINAGE TO DROP INLET

PROVIDE POSITIVE
DRAINAGE TO DROP INLET

ST-A1 (EXISTING INLET)
TOP: 512.14
IE OUT (NE): 507.45 (EXISTING)
IE IN (NW): 507.50 (EXISTING)
IE IN (SE): 509.88
(CONNECT VIA CORE DRILL)

ST-B1 (STSTD 719-105-01
DROP INLET)
TOP: 512.00
IE IN (W): 506.24
IE OUT (E): 506.24
CONNECT VIA DOGHOUSE
CONNECTION - SEE DETAIL

48 LF 10" N12 HDPE @ 1.00%

135 LF 8" N12 HDPE @ 1.00%

ST-A2 (15-IN NYLOPLAST CB
W/ SOLID TOP)
TOP: 514.00
IE IN (NE): 510.46
IE IN (SE): 510.46
IE OUT (NW): 510.36

ST-A2A (CLEANOUT)
IE OUT (SW): 511.81

CONNECT TO BLDG DOWNSPOUTS
PER ROOF PLAN (SEE DETAIL)

DETENTION CENTER
11,900 SF
FFE: 514.5

60 LF 8" N12 HDPE @ 1.12%

ST-A3 (15-IN NYLOPLAST CB
W/ SOLID TOP)
TOP: 513.92
IE IN (NE): 511.56
IE OUT (NW): 511.46

CONNECT TO BLDG DOWNSPOUTS
PER ROOF PLAN (SEE DETAIL)

ST-A4 (CLEANOUT)
IE OUT (SW): 513.00

144 LF 8" N12 HDPE @ 1.00%

370-LF 2-FT FLAT BOTTOM SWALE @
S=0.5-1.6%

364.17' — S 63°20'15" W

LINE TABLE		
LINE#	DIRECTION	LENGTH
L16	S03° 03' 02"W	353.94
L17	N86° 55' 20"W	12.95
L18	S03° 05' 05"W	132.25

APPROXIMATE LOCATION
LOCATION PER SUE

APPROXIMATE LOCATION OF GAS MAIN

FRONT SETBACK: 20-FT

LOUIS RICH ROAD
VARIABLE R/W

45' R/W (D.B. 530-B)

STMH
TOP: 505.68
IE: 500.08 24" RCP OUT (S)

STMH-A

SSMH
TOP: 508.05
IE: 500.69 8" CI IN (SW)
IE: 500.83 12" CI OUT (S)

STMH
TOP: 508.68
IE: 498.97 30" RCP IN (NW)
IE: 498.61 30" RCP OUT (S)

N/F
TOM ABRAHAM
LAND SURVEYING, LLC.
DB 1295-313
PB C182-6
TAX ID: 286-3-18
ZONING: G-C (GENERAL COMMERCIAL)
USE: COMMERCIAL

STMH
TOP: 503.32
IE: 497.84 18" RCP IN (S)
IE: 497.93 24" RCP IN (N)
IE: 497.42 24" RCP OUT (NE)

HATCH LEGEND:

- EXISTING ASPHALT
- PROPOSED HEAVY DUTY ASPHALT
- PROPOSED HEAVY DUTY RIGID PAVEMENT
- EXISTING CONCRETE
- PROPOSED CONCRETE SIDEWALK
- PROPOSED LANDSCAPE AREA (LANDSCAPE PLANTING NIC)

GRAPHIC SCALE: 1"=20'-0"

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architecture
2722 North Oak Street
Valdosta, Georgia 31602
P.(229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

EMC ENGINEERING SERVICES, INC.
1306 East Washington St.
Greenville, SC 29607
Ph: (864) 252-3974
greenville@emc-eng.com
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PROJ NO: 24-3023

A HOUSING FACILITY FOR
NEWBERRY COUNTY DETENTION CENTER
NEWBERRY, SOUTH CAROLINA

SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 39863
JEREMY ROBERT HAY

DRAWN	MLM	THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND MAY NOT BE REPRODUCED OR REUSED WITHOUT PERMISSION AND CREDIT.
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JOB #	220006.01	
DATE	07/12/2024	© 2024 STUDIO8 design, LLC.

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REV.	BID SET 25 JUNE, 2025	REV.	
REV.		REV.	
REV.		REV.	

PAVING, GRADING, AND DRAINAGE PLAN

C6.0

C:\2024\24-3023 NEWBERRY JDET CENTER ENGINEERING (NEWBERRY SC)\DATA\24-3023C_BP1.DWG 7/15/2024 11:50 AM

N/F
CITY OF NEWBERRY
HOUSING AUTHORITY
DB 209-356
TAX ID: 286-3-29
ZONING: R-6 (HIGH DENSITY RES.)
USE: MULTI-FAMILY

1/2" IRF

SIDE ACCESSORY STRUCTURE SETBACK: 5-FT

BUFFER YARD: 20' TYPE C

N 66°54'48" E — 665.00'

N/F
HOUSING AUTHORITY OF THE
CITY OF NEWBERRY
DB 1638-109
PB AI-45
TAX ID: 286-3-21
ZONING: R-6 (HIGH DENSITY RESIDENTIAL)
USE: MULTI-FAMILY

33' R/W (D.B. 530-B)

PT

L1

15" RCP
IE:516.73

15" RCP
IE:514.05

15" RCP
IE:513.73

15" RCP
IE:514.04

15" RCP
IE:513.84

STMH
GRATE: 513.73
IE: 509.76 24" RCP IN (W)
IE: 509.33 18" RCP IN (N)
IE: 508.10 15" RCP IN (E)
IE: 508.06 30" RCP OUT (S)

24" RCP
IE:510.25

GRID NORTH
UNDER South Carolina State Plane

SF
124-LF

1 STORY
METAL
BUILDING

SHED
10'x14'

TAX ID: 286-3-20
TOTAL AREA
5.23 ACRES
227,930 SF
ZONING: GC

1 STORY
BRICK
BUILDING

LIMITS OF
DISTURBANCE
1.6 AC

ECB

IP-B

IP-E

RCD

SF
603-LF

UsC
URBAN LAND-CECIL-SANTUC COMPLEX
HSG: C
ENTIRE SITE

DETENTION CENTER
11,900 SF
FFE: 514.5

DC	M
SO	TS

UTILIZE ON ALL
DISTURBED AREAS

CONSTRUCTION EXIT
N034.296028
W081.631177

APPROXIMATE LOCATION
LOCATION PER SUE

LOUIS RICH ROAD
VARIABLE R/W

45' R/W (D.B. 530-B)

N/F
RNB INVESTMENT
GROUP 2017, LLC.
DB 2296-156
PB AI-18
TAX ID: 286-3-31
ZONING: G-C (GENERAL COMMERCIAL)
USE: MULTI-FAMILY

N/F
GPM SOUTHEAST, LLC.
DB 1942-184
PB AI-18
TAX ID: 286-3-19
ZONING: G-C (GENERAL COMMERCIAL)
USE: COMMERCIAL

N/F
TOM ABRAHAM
LAND SURVEYING, LLC.
DB 1295-31.3
PB C182-6
TAX ID: 286-3-18
ZONING: G-C (GENERAL COMMERCIAL)
USE: COMMERCIAL

LINE TABLE		
LINE#	DIRECTION	LENGTH
L16	S03° 03' 02"W	353.94
L17	N86° 55' 20"W	12.95
L18	S03° 05' 05"W	132.25

N 32°33'41" W — 1,459.17'

S 33°11'35" E — 137.34'

366.17' — S 63°20'15" W

4" CMF

1/2" IRF

STMH
TOP: 505.68
IE: 500.08 24" RCP OUT (S)

STMH
TOP: 503.32
IE: 497.84 18" RCP IN (S)
IE: 497.93 24" RCP IN (N)
IE: 497.42 24" RCP OUT (NE)

STMH
TOP: 513.79
IE: 509.99 15" RCP OUT (W)

SSMH
TOP: 508.05
IE: 500.69 8" CI IN (SW)
IE: 500.83 12" CI OUT (S)

STMH
TOP: 508.68
IE: 498.97 30" RCP IN (NW)

STMH-A

POUROUS BAFFLES

ROCK OULET

SCDHEC MAPPING SYMBOLS FOR EROSION PREVENTION BMPS

PLAN CODE	PRACTICE	DETAIL	SYMBOL	DESCRIPTION
DC	DUST CONTROL		DC	CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITE, ROADWAYS AND SIMILAR SITES.
ECB	EROSION CONTROL BLANKETS (ECB'S)			A PROTECTIVE COVERING USED TO PREVENT EROSION AND ESTABLISH TEMPORARY VEGETATION ON STEEP SLOPES, SHORE LINES, OR CHANNELS (LESS THAN 5 YEARS).
M	MULCHING		M	ESTABLISHING TEMPORARY PROTECTION FOR DISTURBED AREAS WHERE SEEDLINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDING COVER.
SO	SODDING		SO	TRANSPLANTING VEGETATIVE SECTIONS OF PLANT MATERIALS TO PROMPTLY STABILIZE AREAS THAT ARE SUBJECT TO EROSION.
TS	TEMPORARY SEEDING		TS	ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS ON DISTURBED AREAS.

SCDHEC MAPPING SYMBOLS FOR SEDIMENT CONTROL BMPS

PLAN CODE	PRACTICE	DETAIL	SYMBOL	DESCRIPTION
COE	STABILIZED CONSTRUCTION ENTRANCE		COE	A CRUSHED STONE PAD LOCATED AT THE CONSTRUCTION SITE EXIT TO PROVIDE A PLACE FOR REMOVING MUD FROM TIRES THEREBY PROTECTING PUBLIC STREETS.
IP-B	INLET PROTECTION TYPE B WIRE & STONE		IP-B	MEDIUM FLOW (LESS THAN 3-CFS FLOW AND 3-FPS VELOCITY) INLET FILTER UTILIZING HARDWARE FABRIC AND STONE TO TRAP SEDIMENT.
IP-E	INLET PROTECTION TYPE E SURF. COURSE		IP-E	CURB INLET FILTERS UTILIZING PREFABRICATED SYNTHETIC MATERIAL WITH AGGREGATE COMPARTMENTS. APPLICABLE FOR ROAD CATCH BASINS AFTER PAVEMENT IS PLACED.
RCD	ROCK CHECK DAM		RCD	A SMALL TEMPORARY OR PERMANENT ROCK DAM CONSTRUCTED ACROSS A SWALE OR CHANNEL TO LOWER THE SPEED OF CONCENTRATED FLOWS.
SF	SILT FENCE		SF	A TEMPORARY PERIMETER SEDIMENT CONTROL CONSISTING OF GEOTEXTILE FABRIC ACROSS STEEL POSTS WITH THE LOWER EDGE VERTICALLY TRENCHED INTO THE GROUND.
STr	SEDIMENT TRAP		STr	A TEMPORARY POND THAT DRAINS A DISTURBED AREA TO SETTLE SEDIMENT. THE MAIN FEATURE DISTINGUISHING A SEDIMENT TRAP FROM A BASIN IS THE LACK OF A PIPE OR RISER.

SCDHEC MAPPING SYMBOLS FOR RUNOFF CONVEYANCE BMPS

PLAN CODE	PRACTICE	DETAIL	SYMBOL	DESCRIPTION
CW	CONCRETE WASHOUT		CW	CONTROLLED WASH DOWN OF CONCRETE TOOLS AND DRUMS. EXACT LOCATION TO BE DETERMINED IN FIELD. TRUCK WASH OUT IS PROHIBITED ON-SITE.

CONSTRUCTION SEQUENCE:

1. PRE-CONSTRUCTION:
   - OBTAIN NPDES COVERAGE FROM SCDHEC.
   - OBTAIN GRADING PERMIT FROM CITY OF NEWBERRY.
   - HOLD PRE-CONSTRUCTION MEETING (SCHEDULE WITH CITY OF NEWBERRY)
   - NOTIFY CITY OF NEWBERRY PRIOR TO COMMENCING LAND-DISTURBING ACTIVITY
2. INITIAL PHASE:
   - MINIMAL CLEARING TO INSTALL PERIMETER CONTROLS
   - NOTIFY CITY OF NEWBERRY AFTER INSTALLATION OF INITIAL BMPS.
   - ROUGH GRADING SHALL NOT BEGIN UNTIL CITY APPROVAL OF INITIAL BMPS.
2. INTERMEDIATE PHASE:
   - CLEAR AND GRUB SITE
   - INSTALL CONCRETE WASH AREA
   - CONSTRUCT THE BUILDING
   - PERFORM ROUGH GRADING AND TEMPORARY SEDIMENT TRAP INSTALLATION
   - INSTALL INTERMEDIATE BMPS, INCLUDING INLET PROTECTION AND SEDIMENT TRAP
   - CONVERT TYPE B INLET PROTECTION TO TYPE E INLET PROTECTION AFTER PAVEMENT INSTALLATION (WHERE APPLICABLE).
   - PERFORM FINAL GRADING, CONSTRUCTION AND LANDSCAPING
3. FINAL PHASE:
   - ESTABLISH PERMANENT VEGETATION
   - REMOVE SEDIMENT BARRIERS AND TEMPORARY BMPS
   - NOTIFY CITY OF NEWBERRY FOR GRADING PERMIT CLOSE OUT INSPECTION

24 HOUR CONTACT:
JEREMY R. HART
(864) 252-3974

GRAPHIC SCALE: 1"=20'-0"

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STUDIO8 design
architecture
2722 North Oak Street
Valdosta, Georgia 31602
P.(229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

EMC ENGINEERING SERVICES, INC.
1306 East Washington St.
Greenville, SC 29607
Ph: (864) 252-3974
greenville@emc-eng.com
www.emc-eng.com
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PROJ NO: 24-3023

A HOUSING FACILITY FOR
NEWBERRY COUNTY DETENTION CENTER
NEWBERRY, SOUTH CAROLINA

SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 39883
ROBERT HART

DRAWN	MLM
CHECKED	JRH
JOB #	220006.01
DATE	07/12/2024

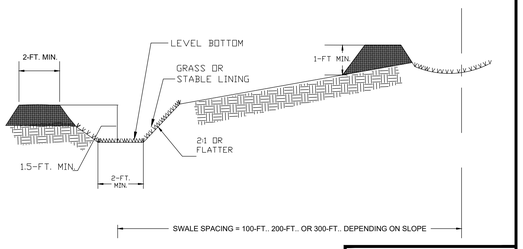
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REV.	01 FP 01/10/2024	REV.	
REV.	BID SET 25 JUNE, 2025	REV.	
REV.		REV.	
REV.		REV.	

ES&PC PLAN

C7.0

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South Carolina Department of Health and Environmental Control

DIVERSION SWALE

STANDARD DRAWING NO. RC-03 Page 1 of 2

NOT TO SCALE JULY 31, 2005 DATE

DIVERSION SWALE

Installation

The bottom width should be a minimum of 2-feet, and the bottom should be level.

The depth should be a minimum of 1.5-feet and the side slopes should be 2H:1V or flatter.

The maximum grade shall be 5%, with positive drainage to a suitable outlet.

Slopes shall be stabilized immediately using vegetation, sod, and erosion control blankets or turf reinforcement mats to prevent erosion.

The upslope side of the swale should provide positive drainage so no erosion occurs at the outlet. Provide energy dissipation measures as necessary.

Sediment-laden runoff shall be directed to a sediment trapping facility.

Inspection and Maintenance:

Swales should be inspected, every seven (7) calendar days and within 24-hours after each rainfall event that produces ½-inches or more of precipitation and repairs made as necessary.

Damage caused by construction traffic or other activity must be repaired before the end of each working day.

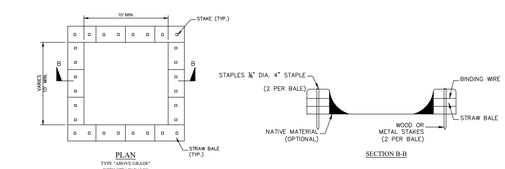
South Carolina Department of Health and Environmental Control

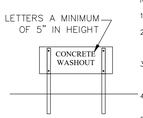
DIVERSION SWALE

STANDARD DRAWING NO. RC-03 PAGE 2 OF 2

GENERAL NOTES JULY 31, 2005 DATE

STRAW BALE BARRIER CONCRETE WASHOUT





NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. INSTALL CONCRETE WASHOUT SIGN (24"X24", MINIMUM) WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. TEMPORARY WASHOUT AREA MUST BE AT LEAST 50' FROM A STORM DRAIN, CREEK BANK OR PERIMETER CONTROL.
4. CLEAN OUT CONCRETE WASHOUT AREA WHEN 50% FULL.
5. THE KEY TO FUNCTIONAL CONCRETE WASHOUTS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR CLEAN OUT.
6. SILT FENCE SHALL BE INSTALLED AROUND PERIMETER OF CONCRETE WASHOUT AREA EXCEPT FOR THE SIDE UTILIZED FOR ACCESSING THE WASHOUT.
7. A ROCK CONSTRUCTION ENTRANCE MAY BE NECESSARY ALONG ONE SIDE OF THE WASHOUT TO PROVIDE VEHICLE ACCESS.

South Carolina Department of Health and Environmental Control

CONCRETE WASHOUT

STRAW BALES OR ABOVE GROUND

STANDARD DRAWING NO. RC-07 PAGE 1 OF 1

NOT TO SCALE FEBRUARY 2014 DATE

SEDIMENT TRAPPING EFFICIENCY CALCULATION:

SEDIMENT TRAPPING CALCULATIONS SHOWN BELOW ARE BASED UPON THE SCDHEC BMP HANDBOOK. SEDIMENT SHALL BE TRAPPED UTILIZING A SEDIMENT TRAP AND ROCK CHECK DAM.

SEDIMENT TRAP:

CONTRIBUTING AREA = 0.76 AC (BYPASS BASIN)

FACTORS:

SOIL TYPE: CECIL

ERODED PARTICLE SIZE D_{15}: 0.0066 (APPENDIX E)

SOIL SETTLING VELOCITY V_{15}: 1.2E-4

q_{pk} = 2.663 CFS

A = AREA AT BOTTOM OF THE ROCK FILL = 0.01 AC

SEDIMENT TRAP RATIO = q_{pk}/AV_{15} = 2.663/(0.01*1.2E-4) = 2,219

USING FIGURE ST-1, THE TRAPPING EFFICIENCY IS 95%

ROCK CHECK DAM: CONTRIBUTING AREA = 3.75 AC (SITE BASIN)

FACTORS:

SOIL TYPE: CECIL

ERODED PARTICLE SIZE D_{15}: 0.0066 (APPENDIX E)

SOIL SETTLING VELOCITY V_{15}: 1.2E-4

PEAK FLOW:

PEAK FLOW = RUNOFF COEFFICIENT * DESIGN STORM INTENSITY * DRAINAGE AREA

PEAK FLOW = 0.4 * 2.51 IN/HR * 3.75 AC = 3.765 CFS

UNIT WIDTH FLOW:

UNIT WIDTH FLOW = PEAK FLOW / WIDTH OF CHANNEL

UNIT WIDTH FLOW = 3.75 CFS / 2 FT = 1.88 CFS/FT

ROCK CHECK DAM RATIO:

ROCK CHECK DAM RATIO = (CHANNEL SLOPE * UNIT WIDTH FLOW ^ (1-b)) / a * V15

STONE DIAMETER = 0.02 M

AVERAGE FLOW LENGTH = 1 M

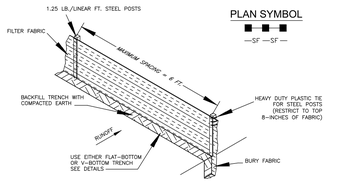
STONE DIAMETER AND AVERAGE FLOW LENGTH USED TO FIND COEFFICIENT a AND EXPONENT b USING ENGINEERING AID TABLE FROM SCDHEC

ROCK CHECK DAM RATIO = (4 * 1.88 * (1-0.6540)) / (7.40 * 1.2E-4) = 5,604

ROCK CHECK DAM EFFICIENCY (FIGURE RC-M):

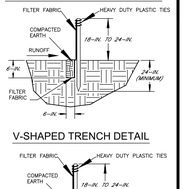
ROCK CHECK DAM EFFICIENCY = 85%

SILT FENCE INSTALLATION



PLAN SYMBOL

—SF—SF—



SILT FENCE – GENERAL NOTES

1. Do not place silt fence across channels or in other areas subject to concentrated flows. Silt fence should not be used as a velocity control BMP. Concentrated flows are any flows greater than 0.5 cfs.
2. Maximum sheet or overland flow path length to the silt fence shall be 100-feet.
3. Maximum slope steepness (normal [perpendicular] to the fence line) shall be 2:1.
4. Silt fence joints, when necessary, shall be completed by one of the following options:
   - Wrap each fabric together at a support post with both ends fastened to the post, with a 1-foot minimum overlap; or,
   - Overlap silt fence by installing 3-feet passed the support post to which the new silt fence roll is attached. Attach old roll to new roll with heavy-duty plastic ties; or,
   - Overlap entire width of each silt fence roll from one support post to the next support post.
5. Attach filter fabric to the steel posts using heavy-duty plastic ties that are evenly spaced within the top 8-inches of the fabric.
6. Install the silt fence perpendicular to the direction of the stormwater flow and place the silt fence the proper distance from the toe of steep slopes to provide sediment storage and access for maintenance and cleanout.
7. Install Silt Fence Checks (Tie-Backs) every 50-100 feet, dependent on slope, along silt fence that is installed with slope and where concentrated flows are expected or are documented along the proposed/installed silt fence.

South Carolina Department of Health and Environmental Control

SILT FENCE

STANDARD DRAWING NO. SC-03 Page 1 of 2

NOT TO SCALE FEBRUARY 2014 DATE

SILT FENCE – POST REQUIREMENTS

1. Silt fence posts must be 48-inch long steel posts that meet, at a minimum, the following physical characteristics.
   - Composed of a high strength steel with a minimum yield strength of 50,000 psi.
   - Include a standard "T" section with a nominal face width of 1.38-inches and a nominal "T" length of 1.48-inches.
   - Weigh 1.25 pounds per foot (±8%)
2. Posts shall be equipped with projections to aid in fastening of filter fabric.
3. Steel posts may need to have a metal soil stabilization plate welded near the bottom when installed along steep slopes or installed in loose soils. The plate should have a minimum cross section of 17-square inches and be composed of 15 gauge steel, at a minimum. The metal soil stabilization plate should be completely buried.
4. Install posts to a minimum of 24-inches. A minimum height of 1- to 2-inches above the fabric shall be maintained, and a maximum height of 3 feet shall be maintained above the ground.
5. Post spacing shall be at a maximum of 6-feet on center.

SILT FENCE – FABRIC REQUIREMENTS

1. Silt fence must be composed of woven geotextile filter fabric that consists of the following requirements:
   - Composed of fibers consisting of long chain synthetic polymers of at least 85% by weight of polyolefins, polyesters, or polyamides that are formed into a network such that the filaments or yarns retain dimensional stability relative to each other.
   - Free of any treatment or coating which might adversely alter its physical properties after installation.
   - Free of any defects or flaws that significantly affect its physical and/or filtering properties; and,
   - Have a minimum width of 36-inches.
2. Use only fabric appearing on SC DOT's Qualified Products Listing (QPL), Approval Sheet #34, meeting the requirements of the most current edition of the SC DOT Standard Specifications for Highway Construction.
3. 12-inches of the fabric should be placed within excavated trench and toed in when the trench is backfilled.
4. Filter Fabric shall be purchased in continuous rolls and cut to the length of the barrier to avoid joints.
5. Filter Fabric shall be installed at a minimum of 24-inches above the ground.

SILT FENCE – INSPECTION & MAINTENANCE

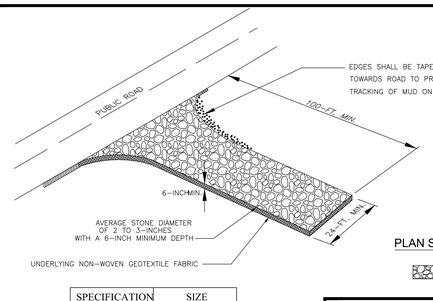
1. The key to functional silt fence is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of silt fence shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2-inch or more of precipitation.
3. Attention to sediment accumulations along the silt fence is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
4. Remove accumulated sediment when it reaches 1/3 the height of the silt fence.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
6. Check for areas where stormwater runoff has eroded a channel beneath the silt fence, or where the fence has sagged or collapsed due to runoff overtopping the silt fence. Install checks/tie-backs and/or reinstall silt fence, as necessary.
7. Check for tears within the silt fence, areas where silt fence has begun to decompose, and for any other circumstance that may render the silt fence ineffective. Removed damaged silt fence and reinstall new silt fence immediately.
8. Silt fence should be removed within 30 days after final stabilization is achieved and once it is removed, the resulting disturbed area shall be permanently stabilized.

South Carolina Department of Health and Environmental Control

SILT FENCE

STANDARD DRAWING NO. SC-03 PAGE 2 OF 2

GENERAL NOTES FEBRUARY 2014 DATE



SPECIFICATION	SIZE
ROCK PAD THICKNESS	6 INCHES
ROCK PAD WIDTH	24 FEET
ROCK PAD LENGTH	100 FEET
ROCK PAD STONE SIZE	D = 2-3 INCHES

PLAN SYMBOL

South Carolina Department of Health and Environmental Control

CONSTRUCTION ENTRANCE

STANDARD DRAWING NO. SC-06 PAGE 1 OF 2

NOT TO SCALE FEBRUARY 2014 DATE

CONSTRUCTION ENTRANCE – GENERAL NOTES

1. Stabilized construction entrances should be used at all points where traffic will egress/ingress a construction site onto a public road or any impervious surfaces, such as parking lots.
2. Install a non-woven geotextile fabric prior to placing any stone.
3. Install a culvert pipe across the entrance when needed to provide positive drainage.
4. The entrance shall consist of 2-inch to 3-inch DSO stone placed at a minimum depth of 6-inches.
5. Minimum dimensions of the entrance shall be 24-feet wide by 100-feet long, and may be modified as necessary to accommodate site constraints.
6. The edges of the entrance shall be tapered out towards the road to prevent tracking at the edge of the entrance.
7. Divert all surface runoff and drainage from the stone pad to a sediment trap or basin or other sediment trapping structure.
8. Limestone may not be used for the stone pad.

CONSTR. ENTRANCE – INSPECTION & MAINTENANCE

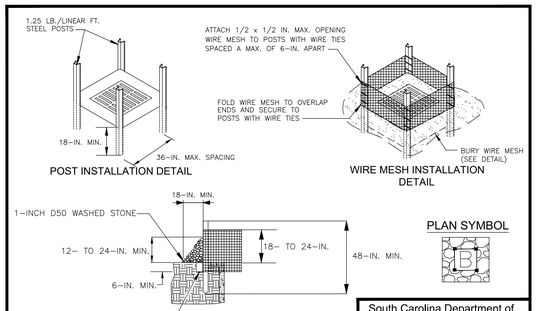
1. The key to functional construction entrances is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of construction entrances shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2-inch or more of precipitation.
3. During regular inspections, check for mud and sediment buildup and pad integrity. Inspection frequencies may need to be more frequent during long periods of wet weather.
4. Reshape the stone pad as necessary for drainage and runoff control.
5. Wash or replace stones as needed and as directed by site inspector. The stone in the entrance should be washed or replaced whenever the entrance fails to reduce the amount of mud being carried off-site by vehicles. Frequent washing will extend the useful life of stone pad.
6. Immediately remove mud and sediment tracked or washed onto adjacent impervious surfaces by brushing or sweeping. Flushing should only be used when the water can be discharged to a sediment trap or basin.
7. During maintenance activities, any broken pavement should be repaired immediately.
8. Construction entrances should be removed after the site has reached final stabilization. Permanent vegetation should replace areas from which construction entrances have been removed, unless area will be converted to an impervious surface to serve post-construction.

South Carolina Department of Health and Environmental Control

CONSTRUCTION ENTRANCE

STANDARD DRAWING NO. SC-06 PAGE 2 OF 2

GENERAL NOTES FEBRUARY 2014 DATE



PLAN SYMBOL

South Carolina Department of Health and Environmental Control

Type B

WIRE MESH & STONE INLET PROTECTION

STANDARD DRAWING NO. SC-08 PAGE 1 OF 2

NOT TO SCALE FEBRUARY 2014 DATE

WIRE MESH & STONE INLET PROTECTION

GENERAL NOTES

1. Use hardware fabric or comparable wire mesh with maximum openings of 0.5-inches x 0.5-inches as the supporting material.
2. Use steel posts that meet the following physical requirements:
   - Be composed of high strength steel with a minimum yield of 50,000 psi.
   - Have a standard "T" section with a nominal face width of 1.38 inches and a nominal "T" width of 1.48-inches.
   - Weigh 1.25 pounds per foot (±8%)
3. Use heavy-duty wire ties to attach the wire mesh material to the steel posts.
4. Space the steel posts a maximum of 3-feet apart around the perimeter of the inlet and drive them into the ground a minimum of 18-inches.
5. Excavate a trench 6-inches deep around the outside perimeter of the inlet to install wire mesh. Backfill the trench with soil or crushed stone and compact over the wire mesh.
6. Place Aggregate No. 5 washed stone (or 1-inch D50 stone) to a minimum height of 12-inches, and a maximum of 24-inches against the wire mesh on all sides.

INSPECTION & MAINTENANCE

1. The key to functional inlet protection is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of wire mesh and stone inlet protection shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2-inch or more of precipitation.
3. Attention to sediment accumulations in front of the inlet protection is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
4. Remove accumulated sediment when the sediment reaches 1/3 height of the stone fill or when stone becomes clogged. When a sump is installed in front of inlet protection, sediment should be removed when it fills approximately 1/3 the depth of the sump.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
6. Large debris, trash, and leaves should be removed from in front of the inlet protection when found.
7. After accumulated sediment is removed, pull stones from around wire mesh to wash or to replace with fresh stones as necessary.
8. Inlet protection structures should be removed after the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them properly. Grade the disturbed area to the elevation of the drop inlet crest. Stabilize all bare areas immediately.

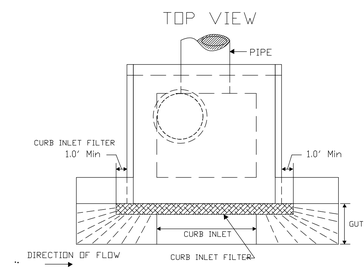
South Carolina Department of Health and Environmental Control

Type B

WIRE MESH & STONE INLET PROTECTION

STANDARD DRAWING NO. SC-08 PAGE 2 OF 2

GENERAL NOTES FEBRUARY 2014 DATE



PLAN SYMBOL

South Carolina Department of Health and Environmental Control

Type E

SURFACE COURSE CURB INLET FILTERS

STANDARD DRAWING NO. SC-10 PAGE 1 OF 2

NOT TO SCALE FEBRUARY 2014 DATE

SURFACE COURSE CURB INLET PROTECTION

GENERAL NOTES

1. Only use surface curb inlet filters that have a minimum height of 2-feet longer than the length of the curb opening.
2. Surface course inlets filters that are designed to completely block the inlet opening are prohibited. Acceptable inlet filters should allow for overflows to enter the catch basin.
3. Surface course inlet filters should be constructed with a synthetic material that will allow stormwater to freely flow through while trapping sediment and debris.
4. Straw, straw fiber, straw bales, pine needles and leaf mulch are not permissible filter materials.
5. Each filter should have aggregate compartments for stone, sand, and other weighted materials or mechanisms to hold the unit in place. Fill aggregate compartments to a level (at least 1/2 full) to hold the filter in place and create a seal between the filter and the ground surface.
6. Use only Type E inlet filters appearing on SC DOT's Qualified Products Listing (QPL), Approval Sheet #58, or filters that meeting the most current edition of the SC DOT Standard Specifications for Highway Construction.

INSPECTION AND MAINTENANCE

1. The key to functional inlet protection is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of all inlet protection shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.
3. Attention to sediment accumulations in front of the inlet protection is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
4. Remove accumulated sediment when silt and/or debris has built up around the filter preventing stormwater to flow through the filter.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
6. Inlet protection structures should be removed after the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them properly. Grade the disturbed area to the elevation of the drop inlet structure crest. Stabilize all bare areas immediately.

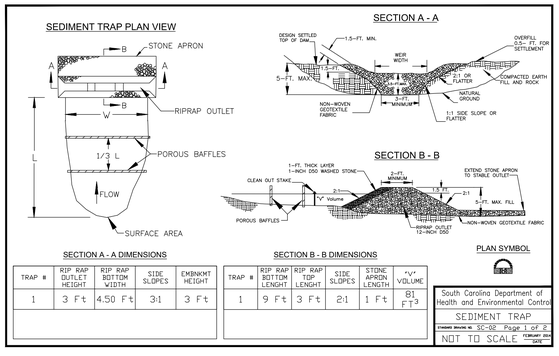
South Carolina Department of Health and Environmental Control

Type E

SURFACE COURSE CURB INLET FILTERS

STANDARD DRAWING NO. SC-10 PAGE 2 OF 2

GENERAL NOTES FEBRUARY 2014 DATE



SECTION A - A DIMENSIONS

TRAP #	RIP RAP OUTLET HEIGHT	RIP RAP BOTTOM WIDTH	SIDE SLOPES	EMBNKMT HEIGHT
1	3 Ft	4.50 Ft	3:1	3 Ft

SECTION B - B DIMENSIONS

TRAP #	RIP RAP BOTTOM LENGHT	RIP RAP TOP LENGHT	SIDE SLOPES	STONE APRON LENGTH	"V" VOLUME
1	9 Ft	3 Ft	2:1	1 Ft	81 Ft^3

PLAN SYMBOL

South Carolina Department of Health and Environmental Control

SEDIMENT TRAP

STANDARD DRAWING NO. SC-02 Page 1 of 2

NOT TO SCALE FEBRUARY 2014 DATE

SEDIMENT TRAP – GENERAL NOTES

1. Sediment traps should not be placed in Waters of the State or USGS blue-line streams (unless approved by Federal Authorities).
2. The rock outlet structure shall consist of 12-inch D50 riprap. The upstream face of this outlet shall consist of a 1-foot thick layer of 1-inch D50 washed stone. The maximum steepness of the rock outlet structure shall be 2:1.
3. Both the rock outlet and the stone apron shall have an underlying layer of non-woven geotextile filter fabric.
4. All internal side slopes of the sediment trap should be 3:1 or flatter.
5. A sediment cleanout stake should be installed and marked to remove sediment at 50% of the sediment storage volume.
6. At least two (2) porous baffles shall be installed within the sediment trap. There should be at least 10 linear feet between each baffle and between any row of baffles and any of the sediment trap's inlets/outlets.
7. After construction of each sediment trap, the area disturbed to construct the trap should be promptly stabilized, including all side slopes.
8. The following sediment trap requirements shall be maintained:
   - Maximum embankment height shall be 5-feet.
   - Maximum riprap outlet height shall be 3.5-feet.
   - Minimum width at bottom of riprap outlet shall be 3-feet.
   - Minimum flow length at top of riprap outlet shall be 2-feet.

SEDIMENT TRAP – INSPECTION AND MAINTENANCE

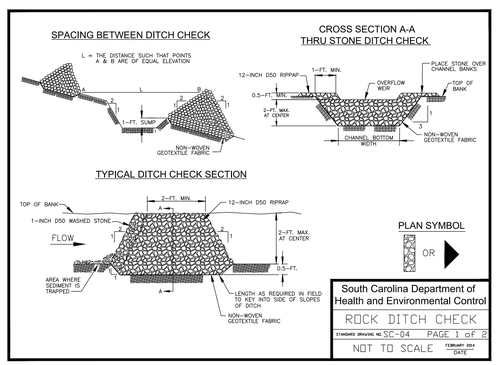
1. The key to a functional sediment trap is weekly inspections, routine maintenance and regular sediment removal.
2. Attention to sediment accumulations within the trap is extremely important. Accumulated sediment deposition should be continually monitored in the trap and removed when necessary.
3. Remove accumulated sediment when it reaches 50% of the designed sediment storage volume as marked by the cleanout stake.
4. Removed sediment from the trap shall be placed in stockpile storage areas or spread thinly across the disturbed area. Stabilize the removed sediment after it is relocated.
5. Regular inspections of sediment traps should be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces ½-inch or more of precipitation.
6. Disturbed areas resulting from the removal of the sediment trap should be permanently stabilized and additional BMPs, such as silt fence, should be utilized to handle stormwater runoff from this disturbed area until final stabilization is reached.

South Carolina Department of Health and Environmental Control

SEDIMENT TRAP

STANDARD DRAWING NO. SC-02 Page 2 of 2

GENERAL NOTES FEBRUARY 2014 DATE



PLAN SYMBOL OR

South Carolina Department of Health and Environmental Control

ROCK DITCH CHECK

STANDARD DRAWING NO. SC-04 PAGE 1 OF 2

NOT TO SCALE FEBRUARY 2014 DATE

ROCK DITCH CHECK – GENERAL NOTES

1. Rock Ditch Checks should not be placed in Waters of the State or USGS blue-line streams (unless approved by Federal Authorities).
2. Rock Ditch Checks should be installed in steeply sloped channels where adequate vegetation cannot be established. This BMP measure should only be used in small open channels.
3. A non-woven geotextile fabric shall be installed over the soil surface where the rock ditch check is to be placed.
4. The body of the rock ditch check shall be composed of 12-inch D50 Riprap. The upstream face may be composed of 1-inch D50 washed stone.
5. Rock Ditch Checks should not exceed a height of 2-feet at the centerline of the channel.
6. Rock Ditch Checks should have a minimum top flow length of 2-feet.
7. Riprap should be placed over channel banks to prevent water from cutting around the ditch check.
8. The riprap should be placed by hand or mechanical placement (no dumping of rock to form dam) to achieve complete coverage of the channel. Doing so will also ensure that the center of the check is lower than the edges.
9. The maximum spacing between the dams should be such that the toe of the upstream check is at the same elevation as the top of the downstream check.

ROCK DITCH CHECK – INSPECTION & MAINTENANCE

1. The key to functional rock ditch check is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of rock ditch checks shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2-inch or more of precipitation.
3. Attention to sediment accumulations in front of the rock ditch check is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
4. Remove accumulated sediment when it reaches 1/3 the height of the rock ditch check.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
6. Inspect Rock Ditch Checks' edges for erosion and evidence of runoff bypassing the installed check. If evident repair promptly as necessary to prevent erosion and bypassing.
7. In the case of grass-lined ditches, channels, and swales, rock ditch checks should be removed when the grass has matured sufficiently to protect the ditch or swale unless the slope of the swale is greater than 4%.
8. After construction is completed and final stabilization is reached, the entirety of the rock ditch check should be removed if vegetation will be used for permanent erosion control measures. The area beneath the removed rock ditch check must be addressed with permanent stabilization measures.

South Carolina Department of Health and Environmental Control

ROCK DITCH CHECK

STANDARD DRAWING NO. SC-04 PAGE 2 OF 2

GENERAL NOTES FEBRUARY 2014 DATE

STUDIO8 design
architecture
2722 North Oak Street
Valdosta, Georgia 31602
P. (229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

EMC ENGINEERING SERVICES, INC.
1306 East Washington St.
Greenville, SC 29607
Ph: (864) 252-3974
greenville@emc-eng.com
www.emc-eng.com
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A HOUSING FACILITY FOR
NEWBERRY COUNTY
DETENTION CENTER
NEWBERRY, SOUTH CAROLINA

SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 39863
ROBERT J. JOHNSON
ROBERT JOHNSON

DRAWN	MLM
CHECKED	JRH
JOB #	220006.01
DATE	07/12/2024

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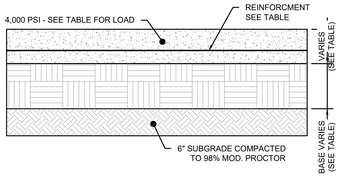
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ES&PC DETAILS

C7.1

NOT FOR CONSTRUCTION

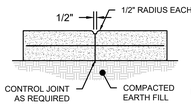
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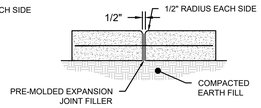
LOAD	THICKNESS (IN)	REINFORCMENT	BASE
STANDARD DUTY	5" THICK	6"x6" WELDED WIRE*	6" GAB - 100% STD. PROCTOR
HEAVY DUTY	6" THICK	6"x6" WELDED WIRE*	6" GAB - 100% STD. PROCTOR

*WELDED WIRE OR FIBER MESH EQUIVALENT

NOTE:
1. EXACT EXP. JOINT AND SAW CUT SPACING SHALL BE PROVIDED BY CONTRACTOR ON A LAYOUT PLAN AND APPROVED BY THE ENGINEER

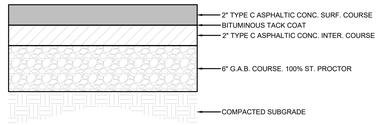


CONTROL JOINT



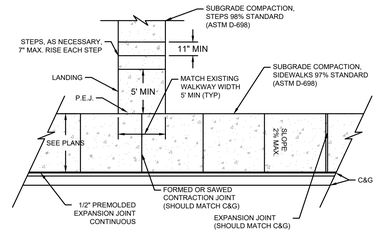
EXPANSION JOINT

CONCRETE PAVEMENT SECTION
NOT TO SCALE



NOTES:
- TOP 12" OF SUBGRADE TO BE COMPACTED TO 100% STANDARD PROCTOR
- ALL MATERIALS AND WORKMANSHIP SHALL MEET SCDOT STANDARDS AND SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2007 EDITION.
- THE CONTRACTOR SHALL PROVIDE COMPACTION TEST AND SOIL ANALYSIS TEST RESULTS FROM AN APPROVED TESTING LABORATORY.

HEAVY DUTY ASPHALT PAVEMENT SECTION
NO SCALE



NOTES:
1. ALL SIDEWALKS SHALL BE 4" THICK WITH 3000 PSI CLASS B FIBER REINFORCED CONCRETE.
2. CONTRACTION JOINTS SHALL BE PLACED AT 6'-0" INTERVALS FOR 6 FOOT SIDEWALKS, 4'-0" INTERVALS FOR 8' SIDEWALKS W/ A LONGITUDINAL JOINT IN THE ℄ OF THE 8 FOOT SIDEWALKS, 5'-0" INTERVALS FOR 10' SIDEWALKS WITH A LONGITUDINAL JOINT IN THE CENTERLINE OF THE 10 FOOT SIDEWALKS.
3. CONTRACTION JOINTS SHALL BE 1" DEEP AND EDGED WITH 1/8" RADIUS.
4. CONSTRUCT 1/4" EXP. JOINT MAXIMUM 50 FT. SPACING BETWEEN JOINTS.
5. INSTALL 1/2" EXP. MATERIAL WHERE CONC. SIDEWALKS ABUT CONCRETE STRUCTURES.
6. A LAYER OF 15# FELT IS REQUIRED BETWEEN WALK AND ADJACENT PARALLELING CONCRETE CURB.
7. POLYPROPYLENE FIBER REINFORCEMENT TO BE ADDED TO ALL CONCRETE SIDEWALKS AND PADS. (SEE SPECS.)
8. ALL SIDEWALKS TO MEET LOCAL & ADA REQUIREMENTS.

CONCRETE SIDEWALK
NO SCALE

PVC LINE				
BEND ANGLE				
PIPE DIA. (INCHES)	11-1/4°	22-1/2°	45°	90°
4	2	4	8	18
6	3	5	11	25
8	4	7	14	33
10	4	8	16	39
12	5	9	19	45
16	5	9	19	45
20	6	11	23	54
24	8	16	26	62

POLYETHYLENE WRAPPED DUCTILE IRON LINE				
BEND ANGLE				
PIPE DIA. (INCHES)	11-1/4°	22-1/2°	45°	90°
4	3	5	9	20
6	3	6	12	28
8	4	8	16	36
10	5	9	19	43
12	6	11	22	51
16	7	14	28	65
20	8	16	33	79
24	9	19	38	92

NOTES:
1. LENGTH OF RESTRAINT SHOWN IS IN FEET. PIPE DIAMETERS ARE IN INCHES.
2. WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY.
3. INFORMATION IN THE TABLES ABOVE ARE BASED ON THE DESIGN INFORMATION SHOWN. THE ENGINEER SHALL PROVIDE AMENDED RESTRAINT LENGTHS IF SITE CONDITIONS DIFFER.

PVC DESIGN:				PE WRAPPED DUCTILE IRON PIPE:			
SOIL TYPE	SM (ASTM D2487)	TRENCH TYPE	3	SOIL TYPE	SM (ASTM D2487)	TRENCH TYPE	3
MIN. COVER	3-FT: ≤ 12-IN DIA. 4-FT: > 12-IN DIA.	TEST PRESSURE	150-PSI	MIN. COVER	3-FT	TEST PRESSURE	150-PSI

PIPE RESTRAINT - HORIZONTAL BEND
NO SCALE

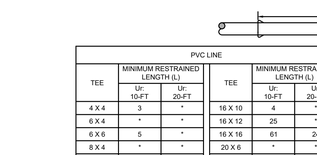
PVC LINE											
BEND ANGLE											
PIPE DIA. (INCHES)	11-1/4°		22-1/2°		45°						
	L_{U1}	L_{L1}	L_{U2}	L_{L2}	L_{U3}	L_{L3}					
4	4	1	8	2	17	3					
6	6	1	11	2	23	4					
8	8	2	15	3	30	6					
10	9	2	18	4	36	7					
12	11	2	21	4	43	8					
16	10	3	21	5	42	10					
20	13	3	25	6	51	12					
24	15	4	29	7	60	15					

POLYETHYLENE WRAPPED DUCTILE IRON LINE											
BEND ANGLE											
PIPE DIA. (INCHES)	11-1/4°		22-1/2°		45°						
	L_{U1}	L_{L1}	L_{U2}	L_{L2}	L_{U3}	L_{L3}					
4	6	1	12	2	24	4					
6	9	2	17	3	34	5					
8	11	2	22	3	45	7					
10	13	2	26	4	53	8					
12	15	3	30	5	63	9					
16	19	3	39	6	80	12					
20	23	4	47	7	97	15					
24	27	4	55	8	113	17					

NOTES:
1. LENGTH OF RESTRAINT SHOWN IS IN FEET. PIPE DIAMETERS ARE IN INCHES.
2. WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY.
3. INFORMATION IN THE TABLES ABOVE ARE BASED ON THE DESIGN INFORMATION SHOWN. THE ENGINEER SHALL PROVIDE AMENDED RESTRAINT LENGTHS IF SITE CONDITIONS DIFFER.

PVC DESIGN:				PE WRAPPED DUCTILE IRON PIPE:			
SOIL TYPE	SM (ASTM D2487)	TRENCH TYPE	3	SOIL TYPE	SM (ASTM D2487)	TRENCH TYPE	3
MIN. COVER	3-FT: ≤ 12-IN DIA. 4-FT: > 12-IN DIA.	TEST PRESSURE	150-PSI	MIN. COVER	3-FT	TEST PRESSURE	150-PSI

PIPE RESTRAINT - VERTICAL BEND
NO SCALE



PVC LINE											
TEE	MINIMUM RESTRAINED LENGTH (L)				TEE	MINIMUM RESTRAINED LENGTH (L)					
	Ur: 10-FT	Ur: 20-FT				Ur: 10-FT	Ur: 20-FT				
4 X 4	3	*			16 X 10	4	*				
6 X 4	*	*			16 X 12	25	*				
6 X 6	5	*			16 X 16	61	24				
8 X 4	*	*			20 X 6	*	*				
8 X 6	*	*			20 X 8	*	*				
8 X 8	18	*			20 X 10	*	*				
10 X 4	*	*			20 X 12	10	*				
10 X 6	*	*			20 X 16	48	2				
10 X 8	8	*			20 X 20	81	44				
10 X 10	28	11			24 X 6	*	*				
12 X 4	*	*			24 X 8	*	*				
12 X 6	*	*			24 X 10	*	*				
12 X 8	*	*			24 X 12	*	*				
12 X 10	20	*			24 X 16	35	*				
12 X 12	39	3			24 X 20	69	25				
16 X 6	*	*			24 X 24	101	63				
16 X 8	*	*			* RESTRAIN AT TEE ONLY						

POLYETHYLENE WRAPPED DUCTILE IRON LINE											
TEE	MINIMUM RESTRAINED LENGTH (L)				TEE	MINIMUM RESTRAINED LENGTH (L)					
	Ur: 10-FT	Ur: 20-FT				Ur: 10-FT	Ur: 20-FT				
4 X 4	4	*			16 X 10	30	*				
6 X 4	*	*			16 X 12	68	*				
6 X 6	27	*			16 X 16	135	78				
8 X 4	*	*			20 X 6	*	*				
8 X 6	9	*			20 X 8	*	*				
8 X 8	52	*			20 X 10	5	*				
10 X 4	*	*			20 X 12	42	*				
10 X 6	*	*			20 X 16	111	40				
10 X 8	35	*			20 X 20	175	116				
10 X 10	72	16			24 X 6	*	*				
12 X 4	*	*			24 X 8	*	*				
12 X 6	*	*			24 X 10	*	*				
12 X 8	20	*			24 X 12	19	*				
12 X 10	58	*			24 X 16	87	5				
12 X 12	94	38			24 X 20	151	82				
16 X 6	*	*			24 X 24	212	152				
16 X 8	*	*			* RESTRAIN AT TEE ONLY						

NOTES:
1. LENGTH OF RESTRAINT SHOWN IS IN FEET. FITTING DIAMETERS ARE IN INCHES.
2. WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY.
3. INFORMATION IN THE TABLES ABOVE ARE BASED ON THE DESIGN INFORMATION SHOWN. THE ENGINEER SHALL PROVIDE AMENDED RESTRAINT LENGTHS IF SITE CONDITIONS DIFFER.

U1 AND U2 = UNINTERRUPTED STRAIGHT RUNS OF PIPE IN EACH DIRECTION.
Ur = THE SMALLER OF U1 OR U2.
L = MINIMUM RESTRAINED LENGTH ALONG THE BRANCH.
WHERE Ur IS LESS THAN 5', RESTRAIN TEE AS A 90°. HORIZONTAL BEND.

PIPE RESTRAINT - TEE
NO SCALE

NOTES:
1. THE BOTTOM OF THE TRENCH SHALL BE ACCURATELY GRADED TO PROVIDE UNIFORM BEARING AND SUPPORT FOR EACH SECTION OF PIPE ON UNDISTURBED SOIL AT EVERY POINT ALONG ITS ENTIRE LENGTH., UNLESS UNSUITABLE SUBSOIL IS ENCOUNTERED AT THE NORMAL TRENCH SUBGRADE.
2. IF UNSUITABLE SUBSOIL IS ENCOUNTERED, THE CONTRACTOR SHALL REMOVE IT A SUFFICIENT DEPTH AND REPLACE WITH 1/4" - 3/4" CRUSHED STONE, GRAVEL (U.S.C.S. SOIL CLASSIFICATION - CLASS ONE) OR CRUSHED SHELL TO THE SPRING LINE OF THE PIPE TO STABILIZE THE PIPE BEDDING. WHEN DRY UNSUITABLE MATERIAL (I.E. HARDPAN) IS ENCOUNTERED AT THE TRENCH BOTTOM, GRADED SANDS MAY BE USED FOR PIPE BEDDING.
3. BOTTOM OF TRENCH SHALL BE FREE OF WATER PRIOR TO PLACING BEDDING.
4. CONTRACTOR IS SOLELY RESPONSIBLE FOR TRENCH SAFETY INCLUDING SHEETING AND SHORING WHERE REQUIRED.
5. TRENCH BOTTOM SHALL NOT BE MORE THAN 16 INCHES WIDER THAN THE OUTSIDE DIAMETER OF THE PIPE.

WATER MAIN TRENCH & BEDDING DETAIL (PVC & DUCTILE IRON)
NO SCALE

NOTES:
1. ALL JOINTS AROUND EXISTING AND PROPOSED SEWER LINE SHALL BE GROUTED WATERTIGHT.
2. AFTER DOGHOUSE MANHOLE CONSTRUCTION IS COMPLETE, TOP HALF OF EXISTING SEWER LINE SHALL BE CUT OUT USING A METHOD APPROVED BY THE LOCAL INSPECTOR.
3. MANHOLES LOCATED OUTSIDE OF PAVEMENT SHALL HAVE BOLT DOWN LIDS.

SEWER DOGHOUSE MANHOLE
NO SCALE

NOTES:
1. PIPE AND FITTINGS WITHIN CONCRETE ENCASEMENT SHALL BE WRAPPED WITH 6 MIL POLYETHYLENE PRIOR TO THE CONCRETE PLACEMENT.
2. ALL PIPE AND FITTINGS SHALL BE SDR 26 PVC.
3. THE CONNECTIONS TO AN EXISTING MANHOLE SHALL OCCUR BY CORE-DRILLING.
4. THE CONNECTIONS SHALL INCLUDE A WATERTIGHT BOOT.

STANDARD DROP MANHOLE CONNECTION
NO SCALE

CLEANOUT DETAIL
NO SCALE

STUDIO8 design
architecture
2722 North Oak Street
Valdosta, Georgia 31602
P. (229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

EMC ENGINEERING SERVICES, INC.
1306 East Washington St.
Greenville, SC 29607
Ph.: (864) 252-3974
greenville@emc-engr.com
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PROJ NO: 24-3023

A HOUSING FACILITY FOR
NEWBERRY COUNTY DETENTION CENTER
NEWBERRY, SOUTH CAROLINA

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 39863
JEREMY ROBERT HART

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JOB #	220006.01	
DATE	07/12/2024	© 2024 STUDIO8 design, LLC

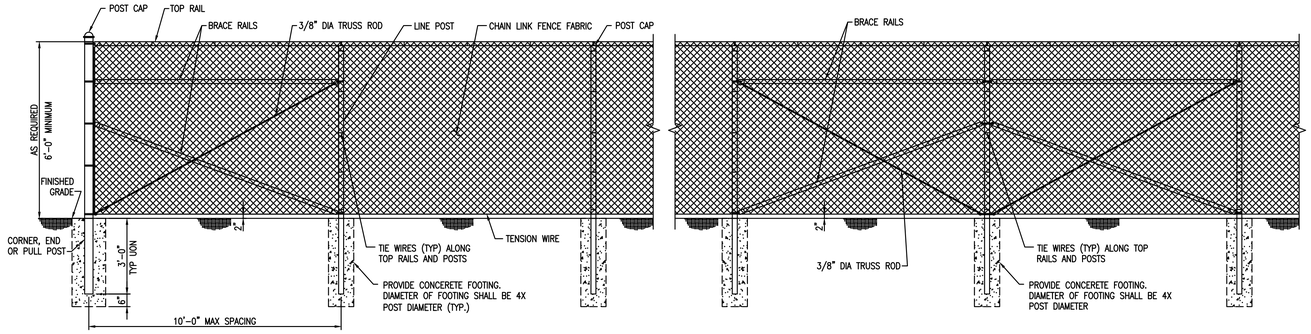
REV.	01 IFP 07/12/2024	REV.	
REV.	BID SET 25 JUNE, 2025	REV.	
REV.		REV.	
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CONSTRUCTION DETAILS

C8.0

NOT FOR CONSTRUCTION

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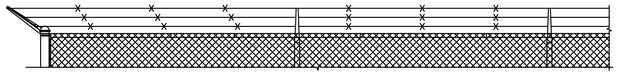
TYPICAL FENCE AND CORNER PANEL ELEVATION

N.T.S.

TYPICAL FENCE AND BRACED PANEL ELEVATION

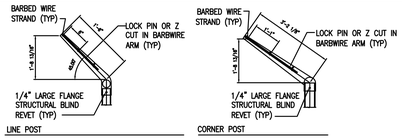
N.T.S.

NOTE (1): A BOTTOM RAIL CAN BE ADDED FOR SECURITY, IT SHALL BE INSTALLED APPROX 3" ABOVE GRADE (A MINIMUM OF 2" AND A MAXIMUM OF 4"). HARDWARE SHALL BE WELDED OR SHOT NAILED TO POSTS AND RAILS IN ORDER TO SECURE IN PLACE. ATTACH FABRIC TO NEW BOTTOM RAIL TO ELIMINATE POSSIBILITY OF PEELING UP FABRIC.



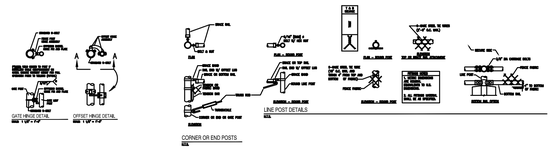
TYPICAL 3 STRAND BARBED WIRE AND SINGLE EXTENSION ARM CONFIGURATION

N.T.S.



SINGLE EXTENSION ARM DETAILS

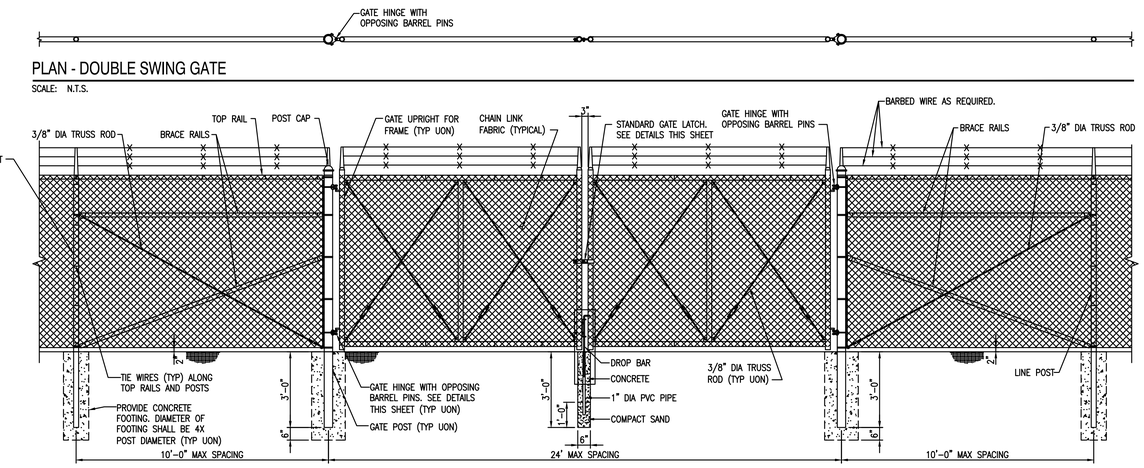
N.T.S.



DOUBLE LEAF GATES		
NOM HEIGHT (H)	UPRIGHT HT (U)	FRAME HT (F)
NOM HT INCLUDING BARBED WIRE	ACTUAL DIM	ACTUAL DIM
7'-0"	6'-10"	5'-8 1/2"

NOTE: IF GATE HINGES ARE NOT OPPOSING (AS SHOWN ABOVE) OR LEAF IS NOT LOCKED MECHANICALLY TO THE HINGES, WELD AN ANGLE, PLATE, OR BLOCK ABOVE HINGE TO RESTRICT LEAF FROM BEING REMOVED OR LIFTED OFF. RESTRICTION SHALL NOT HINDER OPERATION OF GATE.

GATE POSTS & FOUNDATIONS: GATE POST SIZE AND ASSOCIATED FOOTING DIAMETER TO BE DETERMINED BY MANUFACTURER, BASED ON LEAF WEIGHT & DIMENSION, BUT NOT LESS THAN DIAMETER SHOWN ON THESE DRAWINGS. MINIMUM FOOTING DIAMETERS (TO BE FILLED W/4000 PSI CONC): 40" ø FOR 8" POST; 36" ø FOR 6" POST; 24" ø FOR 4" POST; OTHER SIZES TO BE DESIGNED BY MFR OR KTR. NO FOOTING WIDTH SHALL BE LESS THAN 4(X) THE POST WIDTH.



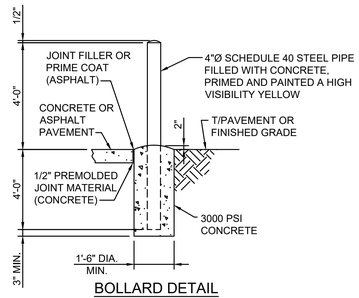
PLAN - DOUBLE SWING GATE

SCALE: N.T.S.

TYPICAL DOUBLE SWING GATE ELEVATION

SCALE: N.T.S.

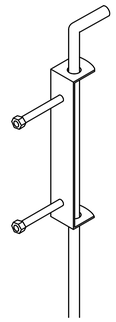
1. FABRIC: THE STANDARD FENCE FABRIC SHALL BE VINYL, ZINC OR ALUMINUM-COATED STEEL WIRE CHAIN LINK WITH MESH OPENINGS NOT LARGER THAN TWO INCHES PER SIDE AND A TWISTED AND BARBED SELVAGE AT TOP AND BOTTOM IN ACCORDANCE WITH THE SPECIFICATIONS. UTILIZE 6-GAUGE FOR BASE PERIMETER OR HEIGHTENED SECURITY ZONES AND 9-GAUGE FOR BASE INTERIOR OR WHEN JOINING AN EXISTING FENCE WHICH IS ALREADY 9-GAUGE.
2. FABRIC TIES: ONLY 11-GAUGE STEEL TIES SHALL BE USED. COATING OR PLATING WILL BE ELECTROLYTICALLY COMPATIBLE WITH THE FENCE FABRIC TO INHIBIT CORROSION.
3. REINFORCEMENT: TENSION WIRES SHALL BE INSTALLED AND INTERWOVEN (OR AFFIXED WITH FABRIC TIES) ALONG THE TOP & BOTTOM OF THE FENCE FOR STABILIZATION OF THE FENCE FABRIC.
4. FENCE HEIGHT: CHAIN LINK FABRIC SHALL BE 6' HIGH WITH AN ADDITIONAL 1' IN HEIGHT COMPOSED OF 3 STRANDS OF BARBED WIRE AS REQUIRED. THE TOTAL FENCE HEIGHT SHALL BE 7'.
5. GROUND CLEARANCE: BOTTOM OF THE FENCE FABRIC SHALL BE WITHIN TWO INCHES OF FIRM SOIL.
6. TOP GUARDS: A TOP GUARD IS AN OVERHANG OF BARBED WIRED ALONG THE TOP OF A FENCE, FACING OUTWARD (AWAY FROM PROTECTED SITE) AND UPWARD AT APPROX. 45 ANGLE. TOP GUARD SUPPORTING ARMS WILL BE PERMANENTLY AFFIXED TO THE TOP OF FENCE POSTS TO INCREASE THE OVERALL HEIGHT OF THE FENCE AT LEAST 1 FOOT. THREE STRANDS OF 12-GAUGE BARBED WIRE, EQUALLY SPACED, SHALL BE INSTALLED ON THE SUPPORTING ARMS.
7. FENCE POSTS: SHALL BE ASTM F1043 OR F1083 ROUND PIPE AND SHALL BE GALVANIZED IN ACCORDANCE WITH THE SPECIFICATIONS. FENCE POST SPACING AND SIZE (DIAMETER) SHALL BE DETERMINED IN ACCORDANCE WITH CHAIN LINK FENCE MANUFACTURERS' INSTITUTE (WLG 2445). SPACING SHALL NOT EXCEED 10'-0" OC. SIZE (DIAMETER) SHALL NOT BE LESS THAN THAT SPECIFIED.



BOLLARD DETAIL

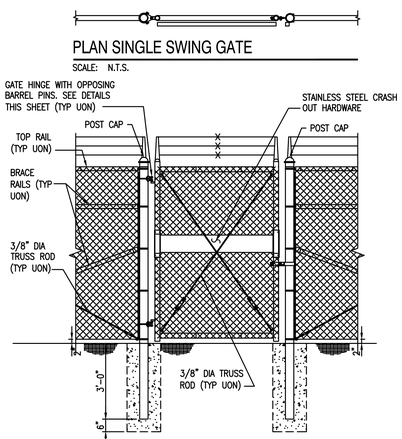
NO SCALE

NOTE: PROVIDE ONE DROP BAR FOR EACH LEAF (TYP). ASSOCIATED GALV SLEEVES TO BE INSTALLED FLUSH WILL GRADE AT FULLY OPEN AND CLOSED POSITIONS. CONTRACTOR SHALL PROVIDE 6" LAYER OF #10 STONE BELOW BOTTOM OF SLEEVE TO ALLOW FOR DRAINAGE.



DETAIL: DROP BAR

NOT TO SCALE



PLAN SINGLE SWING GATE

SCALE: N.T.S.

TYPICAL FENCE SINGLE SWING GATE ELELVATION

SCALE: N.T.S.

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STUDIO8 design architecture
2722 North Oak Street
Valdosta, Georgia 31602
P.(229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

EMC ENGINEERING SERVICES, INC.
1306 East Washington St.
Greenville, SC 29607
Ph: (864) 252-3974
greenville@emc-eng.com
www.emc-eng.com
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SOUTH CAROLINA PROFESSIONAL ENGINEER No. 39863 JEREMY ROBERT HAY

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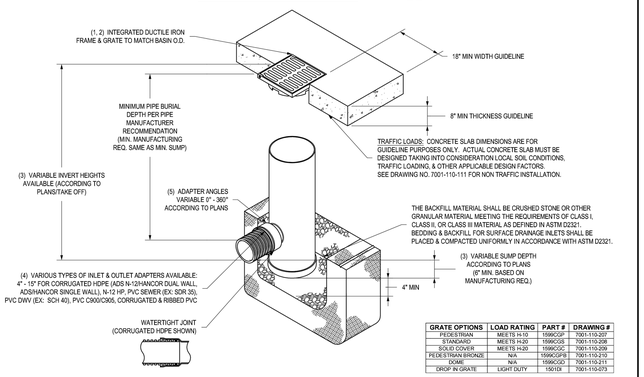
REV.	01 FP 07/12/2024	REV.	
REV.	BID SET 25 JUNE, 2025	REV.	
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CONSTRUCTION DETAILS

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NYLOPLAST 15" DRAIN BASIN: 2815AG _ _ X



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	1599CGP	7001-110-207
STANDARD	MEETS H-20	1599CGS	7001-110-208
SOLID COVER	MEETS H-20	1599CGC	7001-110-209
PEDESTRIAN BRONZE	N/A	1599CGPB	7001-110-210
DOME	N/A	1599CGD	7001-110-211
DROP IN GRATE	LIGHT DUTY	150109	7001-110-073

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 8" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-068.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

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DRAWN BY	EBC	MATERIAL	
DATE	03-30-09		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-14-16		
DWG SIZE	A	SCALE 1:25	SHEET 1 OF 1

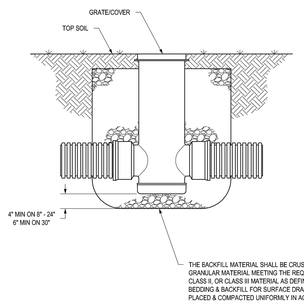
Nyloplast — 3130 VERONA AVE, BUFORD, GA 30518, PHN (770) 932-2443, FAX (770) 932-2490, www.nyloplast-us.com

TITLE: 15 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL

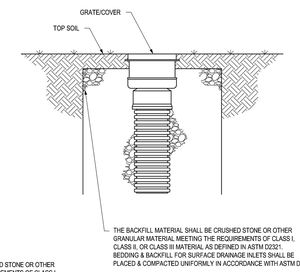
DWG NO. 7001-110-150 REV E

NON TRAFFIC INSTALLATION

DRAIN BASIN



INLINE DRAIN



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DRAWN BY	CJA	MATERIAL	
DATE	9-30-99		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-11-16		
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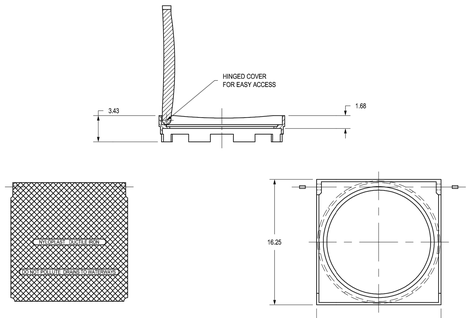
Nyloplast — 3130 VERONA AVE, BUFORD, GA 30518, PHN (770) 932-2443, FAX (770) 932-2490, www.nyloplast-us.com

TITLE: DRAIN BASIN & INLINE DRAIN NON TRAFFIC INSTALLATION

DWG NO. 7001-110-151 REV E

1599CGC

APPROX. WEIGHT WITH FRAME = 59.00 LBS



DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
GRATE MEETS H-20 LOAD RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7001-110-030

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DRAWN BY	EBC	MATERIAL	DUCTILE IRON
DATE	03-07-06		
REVISED BY	CCA	PROJECT NO./NAME	
DATE	08-30-13		
DWG SIZE	A	SCALE 1:8	SHEET 1 OF 1

Nyloplast — 3130 VERONA AVE, BUFORD, GA 30518, PHN (770) 932-2443, FAX (770) 932-2490, www.nyloplast-us.com

TITLE: 15 IN SOLID COVER ASSEMBLY

DWG NO. 7001-110-209 REV D

Section 2721

Engineered Surface Drainage Products

GENERAL
PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

MATERIALS
The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermoforming process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the main body of the drain basin or catch basin. The raw material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates and frames furnished for all surface drainage inlets shall be ductile iron for sizes 8", 10", 12", 15", 18", 24" and 30" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain basins shall be capable of supporting various wheel loads as specified by Nyloplast. 12" and 15" square grates will be hinged to the frame using pins. Ductile iron used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05. Grates and covers shall be provided painted black.

INSTALLATION
The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1, class 2, or class 3 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For load rated installations, a concrete slab shall be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.

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REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-11-16		
DWG SIZE	A	SCALE 1:1	SHEET 1 OF 1

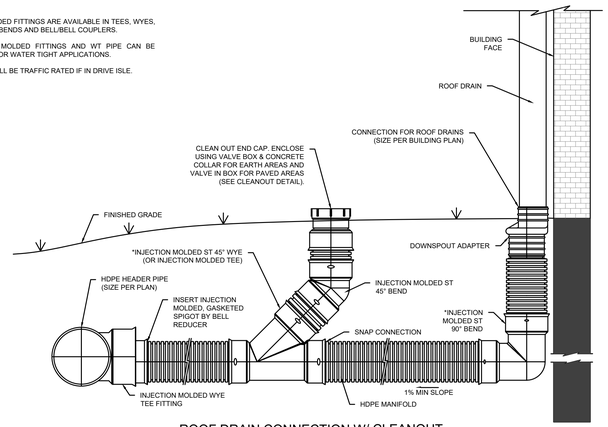
Nyloplast — 3130 VERONA AVE, BUFORD, GA 30518, PHN (770) 932-2443, FAX (770) 932-2490, www.nyloplast-us.com

TITLE: 8 IN - 30 IN DRAIN BASIN SPECIFICATIONS

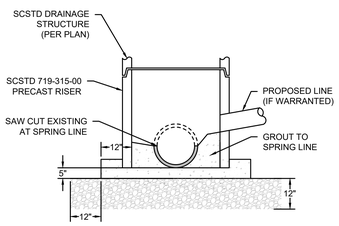
DWG NO. 7001-110-011 REV H

NOTES:

1. INJECTION MOLDED FITTINGS ARE AVAILABLE IN TEES, WYES, REDUCERS, 45° BENDS AND BELL/BELL COUPLERS.
2. WT INJECTION MOLDED FITTINGS AND WT PIPE CAN BE SUBSTITUTED FOR WATER TIGHT APPLICATIONS.
3. CLEAN OUT SHALL BE TRAFFIC RATED IF IN DRIVE ISLE.



ROOF DRAIN CONNECTION W/ CLEANOUT
NO SCALE



NOTES:
1. ALL JOINTS AROUND EXISTING AND PROPOSED STORM LINES SHALL BE GROUTED WATERTIGHT.
2. AFTER DOGHOUSE CONSTRUCTION IS COMPLETE, TOP HALF OF EXISTING STORM LINE SHALL BE CUT OUT USING A METHOD APPROVED BY THE LOCAL INSPECTOR.

STORM DOGHOUSE CONNECTION
NO SCALE

STUDIO8 design
architecture
2722 North Oak Street
Valdosta, Georgia 31602
P.(229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

EMC ENGINEERING SERVICES, INC.
CIVIL / MARINE / ENVIRONMENTAL
1306 East Washington St.
Greenville, SC 29607
Ph: (864) 252-3974
greenville@emc-eng.com
www.emc-eng.com
ALBANY • ATLANTA • AUGUSTA • BRUNSWICK • COLUMBUS
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NEWBERRY, SOUTH CAROLINA



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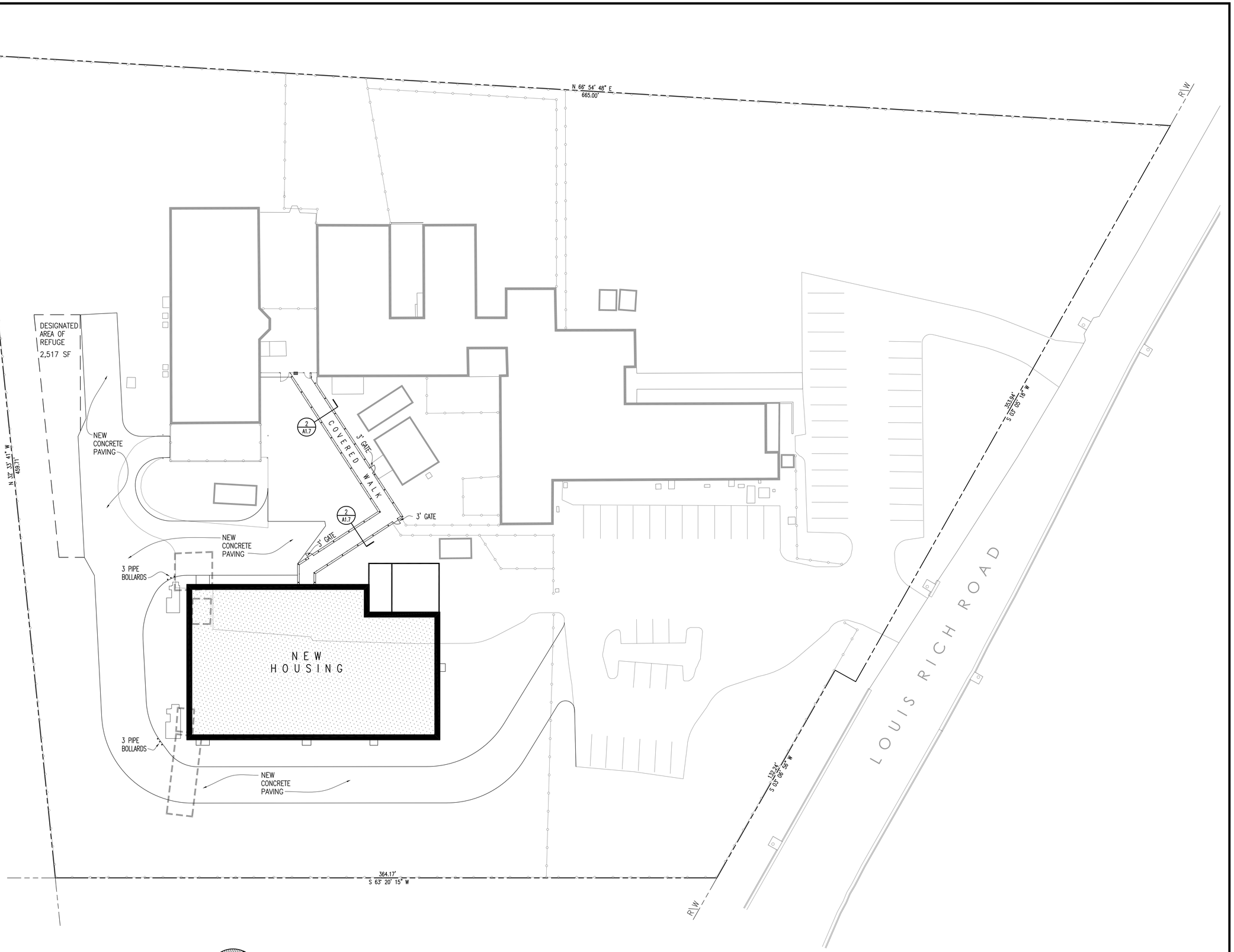
REV.	01 IFP 07/12/2024	REV.	
REV.	BID SET 25 JUNE, 2025	REV.	
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CONSTRUCTION DETAILS

C8.2

NOT FOR CONSTRUCTION

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NORTH

ARCHITECTURAL SITE PLAN

0 10' 20' 40' 60' SCALE 1"=20'

STUDIO8 design architecture
2722 North Oak Street
Valdosta, Georgia 31602
P.(229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

384 SQ. FT.

A HOUSING FACILITY FOR
NEWBERRY COUNTY
DETENTION CENTER
NEWBERRY, SOUTH CAROLINA

STATE OF SOUTH CAROLINA
JAMES H. INGRAM
VALDOSTA, GEORGIA
No. 8990
REGISTERED ARCHITECT

DRAWN	BB
CHECKED	JI
JOB #	220006.01
DATE	12 JULY,2024

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REV. 1 CODE COMPLIANCE 6 FEBRUARY, 2025	REV.
REV. CODE COMPLIANCE REV. MAY 30, 2025	REV.
REV. BID SET 25 JUNE, 2025	REV.
REV.	REV.

ARCHITECTURAL SITE PLAN

A1.1

CODE REVIEW FOR NEWBERRY COUNTY DETENTION CENTER

APPLICABLE CODES (NEW CONSTRUCTION)

1. INTERNATIONAL BUILDING CODE, 2021 W/ SC MODIFICATIONS
2. INTERNATIONAL FIRE CODE, 2021 W/ SC MODIFICATIONS
3. INTERNATIONAL PLUMBING CODE, 2021 W/ SC MODIFICATIONS
4. INTERNATIONAL MECHANICAL CODE, 2021 W/ SC MODIFICATIONS
5. INTERNATIONAL FUEL GAS CODE, 2021 W/ SC MODIFICATIONS
6. NATIONAL ELECTRICAL CODE, 2020 W/ SC MODIFICATIONS
7. INTERNATIONAL ENERGY CONSERVATION CODE, 2009
8. ANSI A117.1 – ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, LATEST EDITION
9. 2021 SC MODIFICATIONS (SEE LLR FOR LISTING OF MODIFICATIONS)

OCCUPANCY CLASSIFICATION

1. PER IBC 2021, SECTION 302.1: INSTITUTIONAL
2. PER IBC 2021, SECTION 308.4 GROUP 1–3, CONDITION 4

CONSTRUCTION TYPE AND PROTECTION

BUILDING CONSTRUCTION TYPE: 2B

BUILDING HEIGHT & NO. OF STORIES: 17', ONE (1) WITH MEZZANINE

BUILDING AREA:
17,372 DESIGNED / 40,000 ALLOWABLE (COMPLIES)
ALLOWABLE AREA PER IBC 506

OCCUPANCY LOAD (IFC 2018 – TABLE 1004.1.2)

OCCUPANT LOAD:
17,372 SF / 120 S.F./OCCUPANT = 145 OCCUPANTS

EXITING CAPACITY & TRAVEL DISTANCE

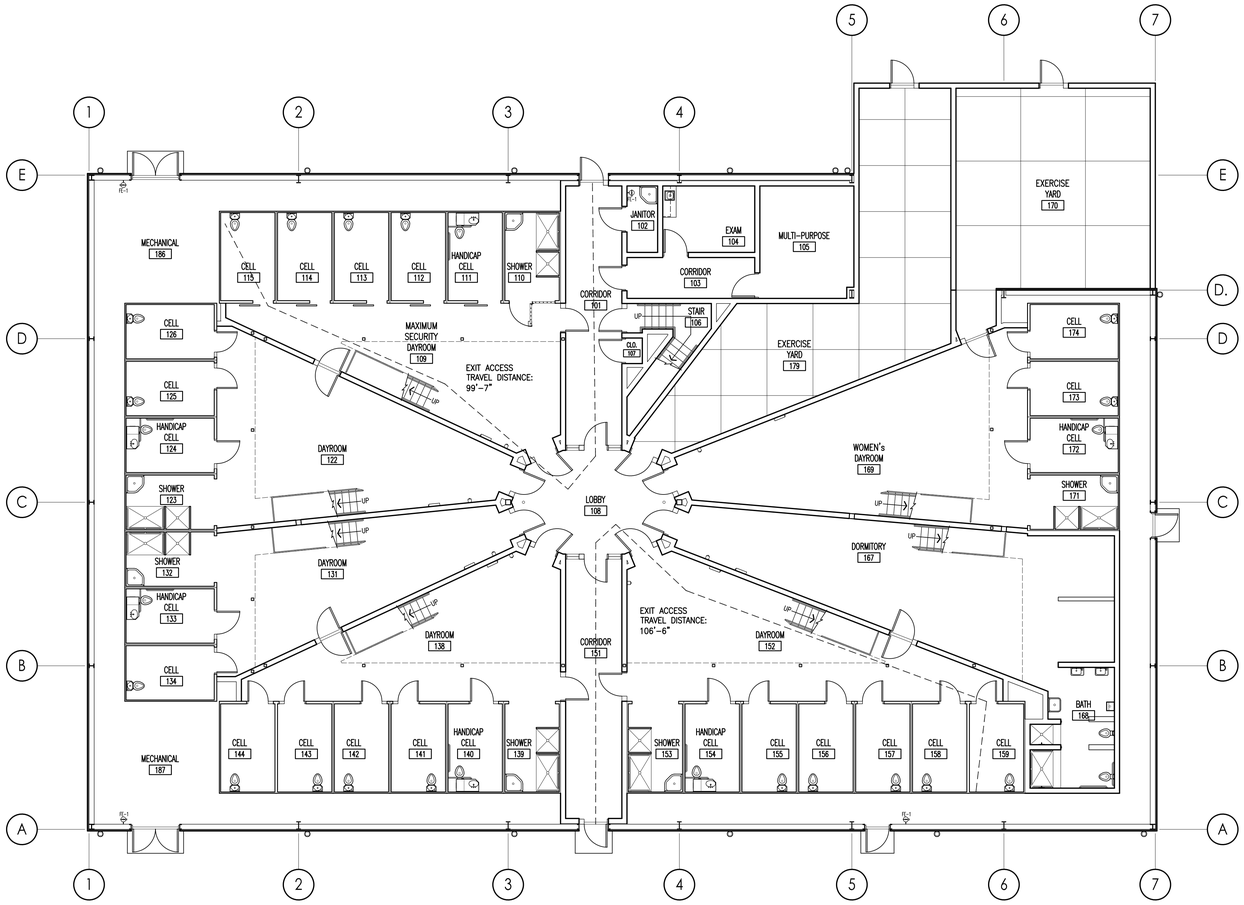
PER IFC 2021, TABLE 1017.2: TRAVEL DISTANCE SHALL NOT EXCEED 200 LINEAR FEET. (COMPLIES)

PER IFC 2021, SECTION 1005.3.2; EXCEPTION 1 PROVIDE MEANS OF EGRESS WIDTH:

EGRESS WIDTH = 0.15 INCHES/OCC. x 145 OCC. = 21.8 INCHES REQUIRED
3'–0" DOORS PROVIDED – 33 INCHES PROVIDED. (COMPLIES WITH 1 DOOR)

ALL DOOR HARDWARE IS TO MEET REQUIREMENTS OF IFC 2018, SECTION 1010.

PER NFPA 101 PARAGRAPH 22.2.5.3 COMMON PATH OF TRAVEL SHALL NOT EXCEED 100 FEET. (COMPLIES)
DAYROOMS HAVE TWO EGRESS PATHS TO EXIT AT FIRST FLOOR – THUS NO COMMON PATH CONDITION



LIFE SAFETY PLAN LOWER FLOOR

SCALE: 1/8"=1'–0"

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A HOUSING FACILITY FOR
NEWBERRY COUNTY DETENTION CENTER
NEWBERRY, SOUTH CAROLINA

STATE OF SOUTH CAROLINA
JAMES H. INGRAM
VALDOSTA, GEORGIA
No. 8990
REGISTERED ARCHITECT

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JOB #	220006.01
DATE	12 JULY,2024

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LIFE SAFETY PLAN
LOWER FLOOR

A1.2

CODE REVIEW FOR NEWBERRY COUNTY DETENTION CENTER

APPLICABLE CODES (NEW CONSTRUCTION)

1. INTERNATIONAL BUILDING CODE, 2021 W/ SC MODIFICATIONS
2. INTERNATIONAL FIRE CODE, 2021 W/ SC MODIFICATIONS
3. INTERNATIONAL PLUMBING CODE, 2021 W/ SC MODIFICATIONS
4. INTERNATIONAL MECHANICAL CODE, 2021 W/ SC MODIFICATIONS
5. INTERNATIONAL FUEL GAS CODE, 2021 W/ SC MODIFICATIONS
6. NATIONAL ELECTRICAL CODE, 2020 W/ SC MODIFICATIONS
7. INTERNATIONAL ENERGY CONSERVATION CODE, 2009
8. ANSI A117.1 – ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, LATEST EDITION
9. 2021 SC MODIFICATIONS (SEE LLR FOR LISTING OF MODIFICATIONS)

OCCUPANCY CLASSIFICATION

1. PER IBC 2021, SECTION 302.1: INSTITUTIONAL
2. PER IBC 2021, SECTION 308.4 GROUP 1–3, CONDITION 4

CONSTRUCTION TYPE AND PROTECTION

BUILDING CONSTRUCTION TYPE: 2B

BUILDING HEIGHT & NO. OF STORIES: 17', ONE (1) WITH MEZZANINE

BUILDING AREA:
17,372 DESIGNED / 40,000 ALLOWABLE (COMPLIES)
ALLOWABLE AREA PER IBC 506

OCCUPANCY LOAD (IFC 2018 – TABLE 1004.1.2)

OCCUPANT LOAD:
17,372 SF / 120 S.F./OCCUPANT = 145 OCCUPANTS

EXITING CAPACITY & TRAVEL DISTANCE

PER IFC 2021, TABLE 1017.2: TRAVEL DISTANCE SHALL NOT EXCEED 200 LINEAR FEET. (COMPLIES)

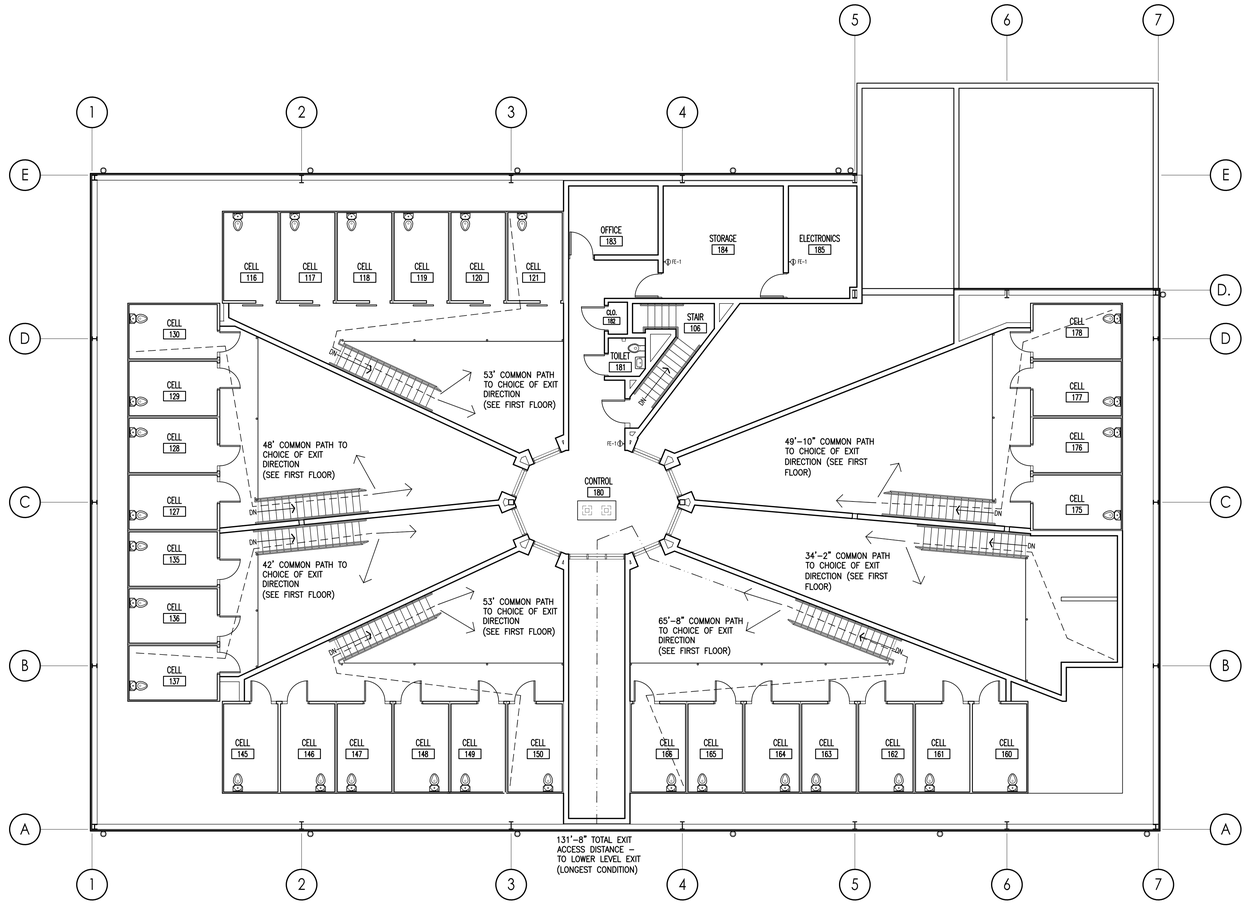
PER IFC 2021, SECTION 1005.3.2; EXCEPTION 1 PROVIDE MEANS OF EGRESS WIDTH:

EGRESS WIDTH = 0.15 INCHES/OCC. x 145 OCC. = 21.8 INCHES REQUIRED
3'–0" DOORS PROVIDED – 33 INCHES PROVIDED. (COMPLIES WITH 1 DOOR)

ALL DOOR HARDWARE IS TO MEET REQUIREMENTS OF IFC 2018, SECTION 1010.

PER NFPA 101 PARAGRAPH 22.2.5.3 COMMON PATH OF TRAVEL SHALL NOT EXCEED 100 FEET. (COMPLIES)
DAYROOMS HAVE TWO EGRESS PATHS TO EXIT AT FIRST FLOOR – THUS NO COMMON PATH CONDITION

PER NFPA 101 PARAGRAPH 22.2.5.3 COMMON PATH OF TRAVEL SHALL NOT EXCEED 100 FEET. (COMPLIES)
LONGEST CONDITION – 65'–8"



53' COMMON PATH TO CHOICE OF EXIT DIRECTION (SEE FIRST FLOOR)

LIFE SAFETY PLAN UPPER FLOOR

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

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LIFE SAFETY PLAN
UPPER FLOOR

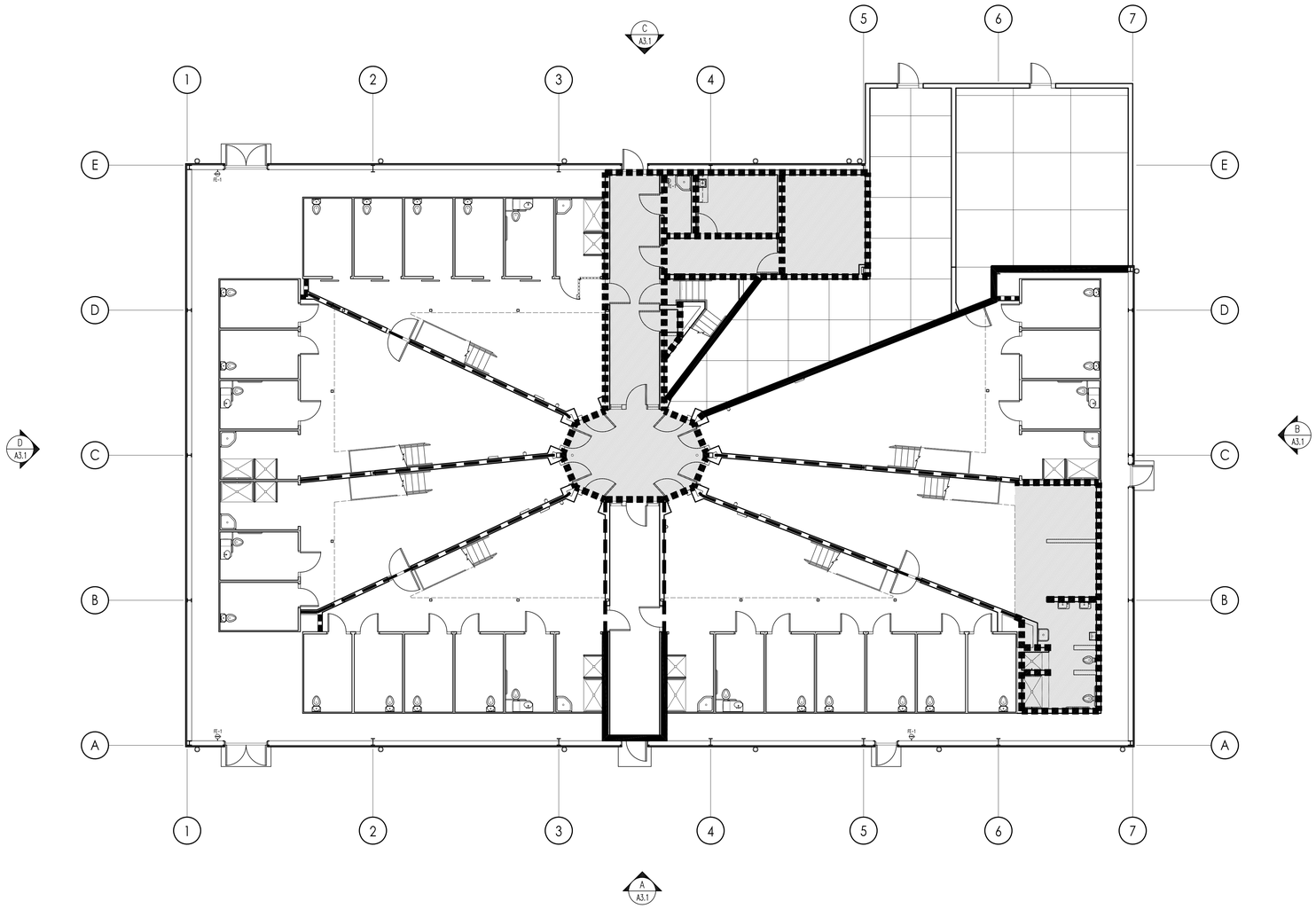
A1.3

SECURITY WALLS – BUILD TIGHT TO UNDERSIDE OF ROOF DECK ABOVE. MASONRY FILL SHALL CONSIST OF 3000 PSI GROUT WITH A MINIMUM OF 1 No. 4 REBAR VERTICAL REINFORCING AT 8" O.C. WALL SHALL BE CONTINUOUS TO STRUCTURE WITH ANY OPENING THAT WILL PASS A 6" DIAMETER BALL TO HAVE SECURITY BARS.

SECURITY WALLS – BUILT TIGHT TO UNDERSIDE OF CONCRETE SLAB ABOVE. MASONRY FILL SHALL CONSIST OF 3000 PSI GROUT WITH A MINIMUM OF 1 No. 4 REBAR VERTICAL REINFORCING AT 8" O.C. WALL SHALL BE CONTINUOUS TO PRECAST OR POURED CONCRETE SLAB WITH ANY OPENING THAT WILL PASS A 6" DIAMETER BALL TO HAVE SECURITY BARS.

CONCRETE CEILINGS – SECURITY WALLS BUILT TIGHT TO UNDERSIDE OF CONCRETE SLAB ABOVE. MASONRY FILL SHALL CONSIST OF 3000 PSI GROUT WITH A MINIMUM OF 1 No. 4 REBAR VERTICAL REINFORCING AT 8" O.C. WALL SHALL BE CONTINUOUS TO PRECAST OR POURED CONCRETE SLAB WITH ANY OPENING THAT WILL PASS A 6" DIAMETER BALL TO HAVE SECURITY BARS.

CMU WALLS TO HAVE CELLS FILLED WITH GROUT TO A HEIGHT OF 5'–4" ABOVE FINISHED FLOOR



HOUSING LOWER FLOOR SECURITY PLAN

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

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REV.		REV.	

HOUSING LOWER FLOOR SECURITY PLAN

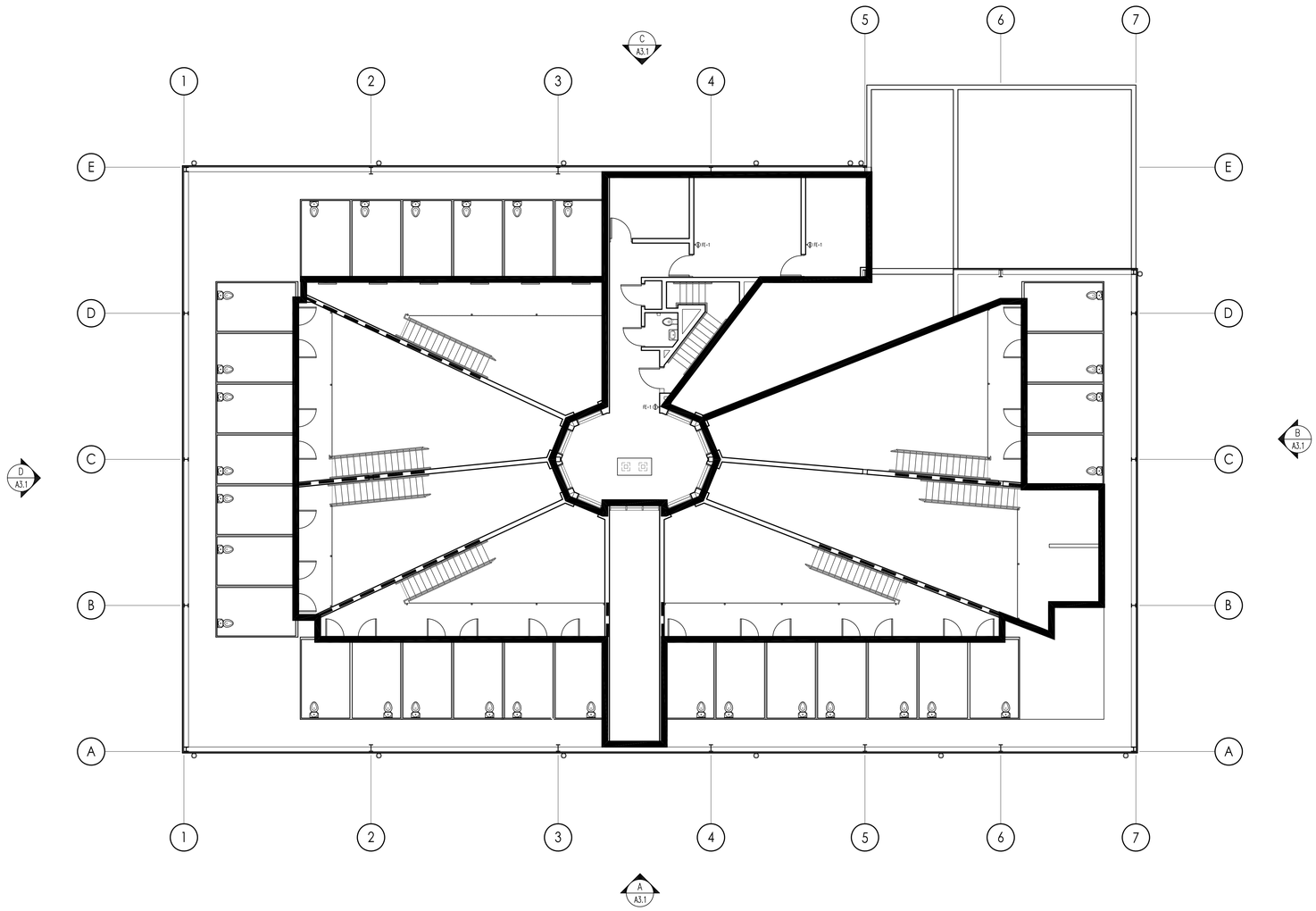
A1.4

SECURITY WALLS – BUILD TIGHT TO UNDERSIDE OF ROOF DECK ABOVE. MASONRY FILL SHALL CONSIST OF 3000 PSI GROUT WITH A MINIMUM OF 1 No. 4 REBAR VERTICAL REINFORCING AT 8" O.C. WALL SHALL BE CONTINUOUS TO STRUCTURE WITH ANY OPENING THAT WILL PASS A 6" DIAMETER BALL TO HAVE SECURITY BARS.

SECURITY WALLS – BUILT TIGHT TO UNDERSIDE OF CONCRETE SLAB ABOVE. MASONRY FILL SHALL CONSIST OF 3000 PSI GROUT WITH A MINIMUM OF 1 No. 4 REBAR VERTICAL REINFORCING AT 8" O.C. WALL SHALL BE CONTINUOUS TO PRECAST OR POURED CONCRETE SLAB WITH ANY OPENING THAT WILL PASS A 6" DIAMETER BALL TO HAVE SECURITY BARS.

CONCRETE CEILINGS – SECURITY WALLS BUILT TIGHT TO UNDERSIDE OF CONCRETE SLAB ABOVE. MASONRY FILL SHALL CONSIST OF 3000 PSI GROUT WITH A MINIMUM OF 1 No. 4 REBAR VERTICAL REINFORCING AT 8" O.C. WALL SHALL BE CONTINUOUS TO PRECAST OR POURED CONCRETE SLAB WITH ANY OPENING THAT WILL PASS A 6" DIAMETER BALL TO HAVE SECURITY BARS.

CMU WALLS TO HAVE CELLS FILLED WITH GROUT TO A HEIGHT OF 5'–4" ABOVE FINISHED FLOOR



HOUSING UPPER FLOOR SECURITY PLAN

SCALE: 1/8"=1'–0"

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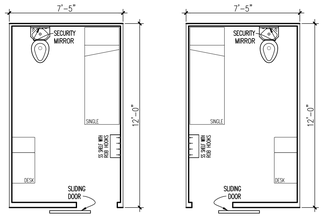
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REV.	REV.

HOUSING
UPPER FLOOR
SECURITY PLAN

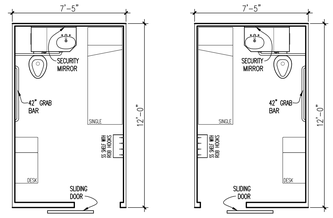
A1.5



ONE MAN CELL

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

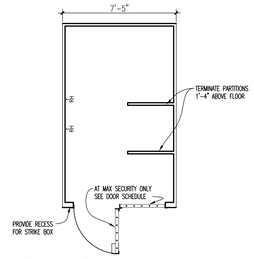
SLIDING DOOR



ONE MAN ACCESSIBLE CELL

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

SLIDING DOOR



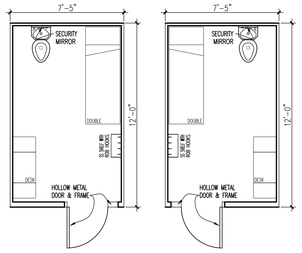
TYPICAL ACCESSIBLE SHOWER

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

LEGEND

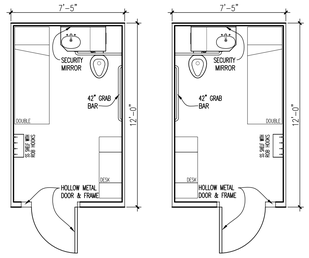
SS = STAINLESS STEEL RH = ROBE HOOK

NOTES:
7'-5" WIDTH DIMENSIONS SHOWN ARE TO BE BUILT 7'-4 1/4"
ACTUAL TO ALLOW 3/4" JOINT BETWEEN CELLS



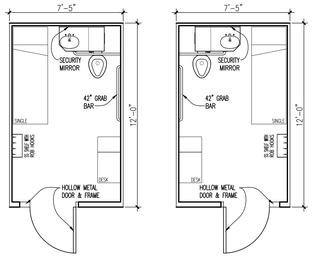
TWO MAN CELL

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



TWO MAN ACCESSIBLE CELL

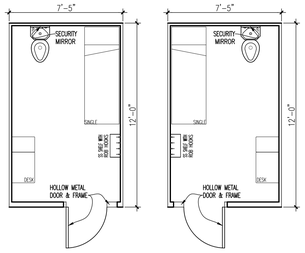
SCALE: 1/4"=1'-0"



ONE MAN ACCESSIBLE CELL

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

HINGED DOOR



ONE MAN CELL

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

HINGED DOOR

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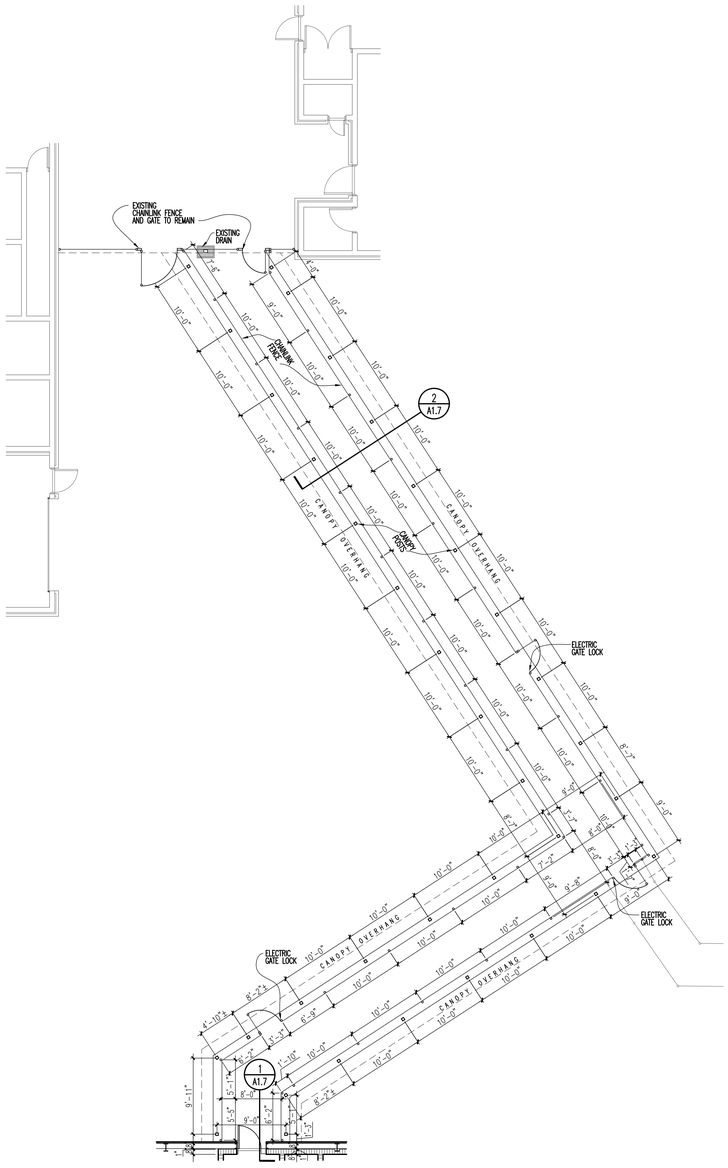
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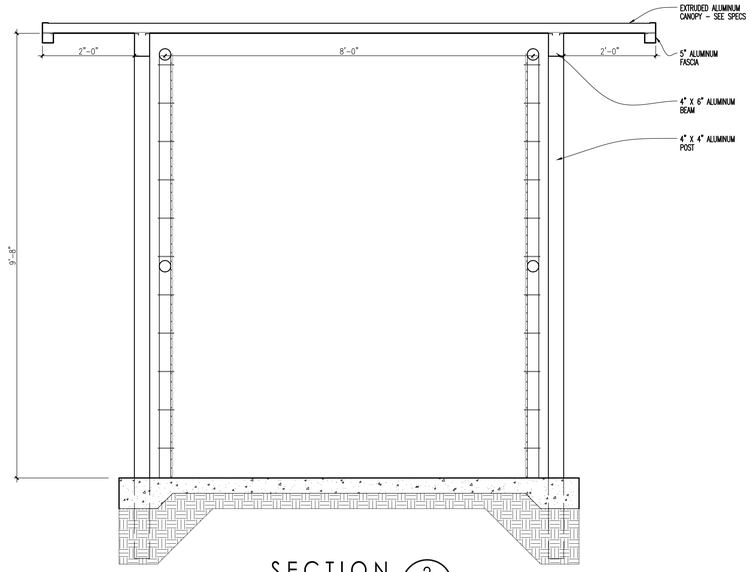
STEEL CELL TYPES

A1.6



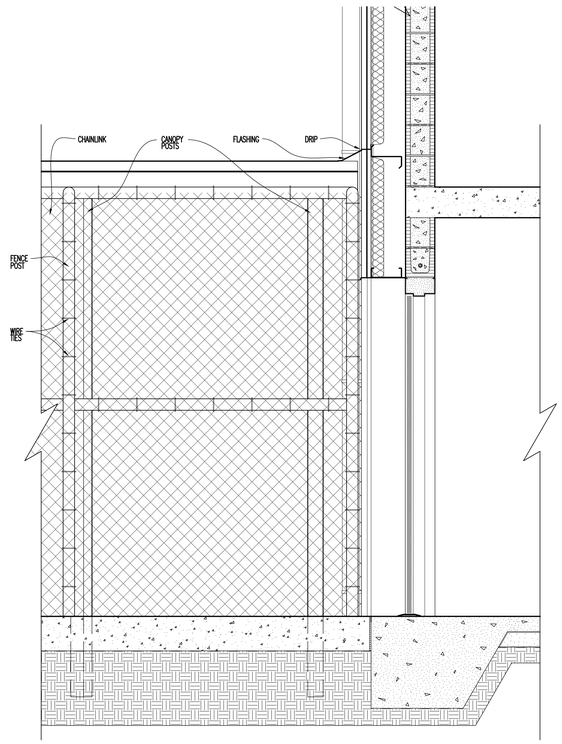
COVERED WALKWAY FLOOR PLAN

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



SECTION 2 / A1.7

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



SECTION 1 / A1.7

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

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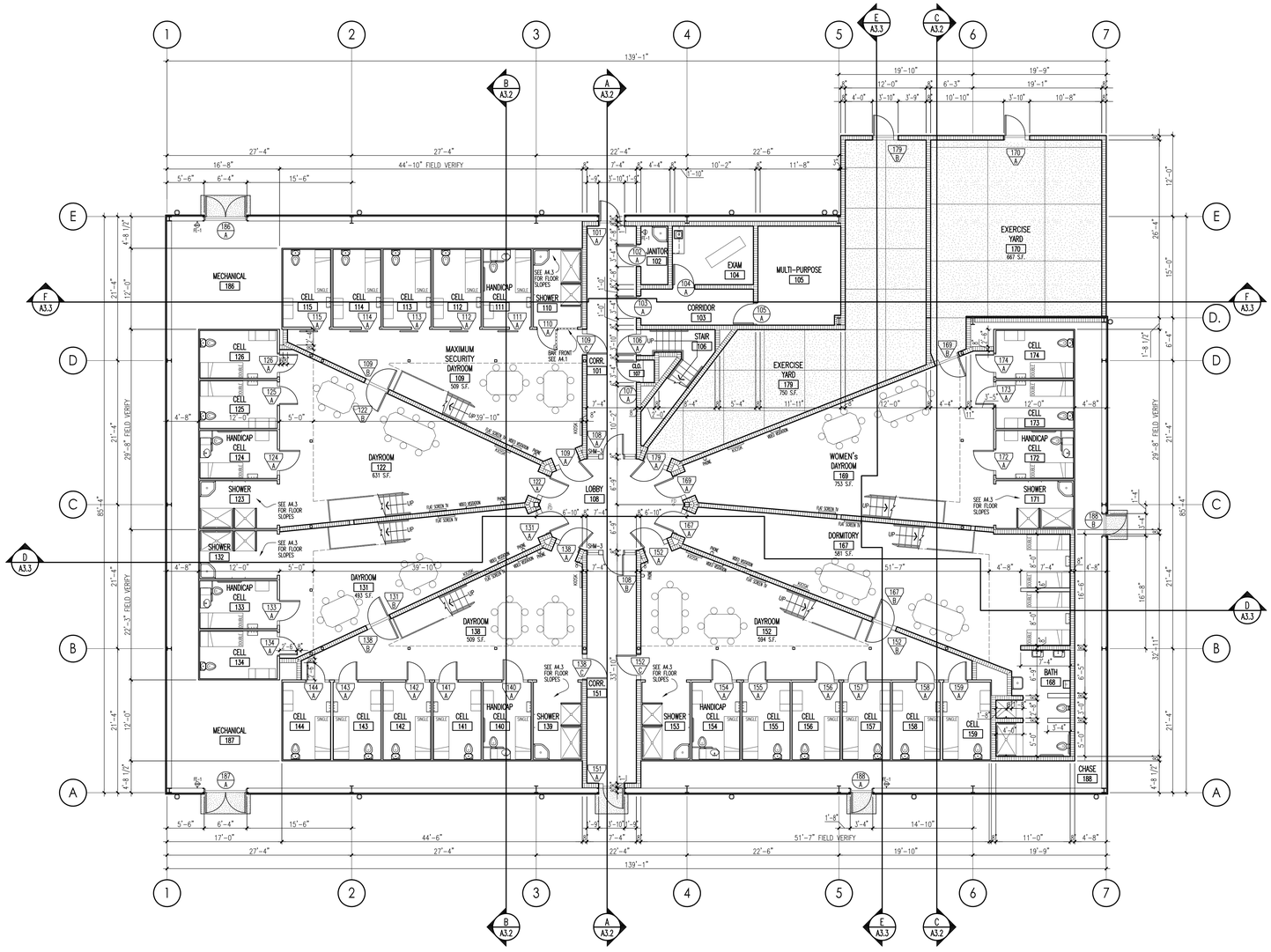
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CORRIDOR FLOOR PLAN

A1.7



HOUSING LOWER FLOOR PLAN

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

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17,372 L 11,951 U 5,4213

BED COUNT

SINGLE BED CELLS	=	35 BEDS
2 BED CELLS	=	38 BEDS
DORMITORY	=	16 BEDS
TOTAL	=	89 BEDS

HOUSING

1 BED CELLS MAX.	=	11 BEDS
1 BED CELLS	=	24 BEDS
2 BED CELLS	=	24 BEDS
DORMITORY MINIMUM	=	16 BEDS
2 BED WOMEN	=	14 BEDS
TOTAL	=	89 BEDS

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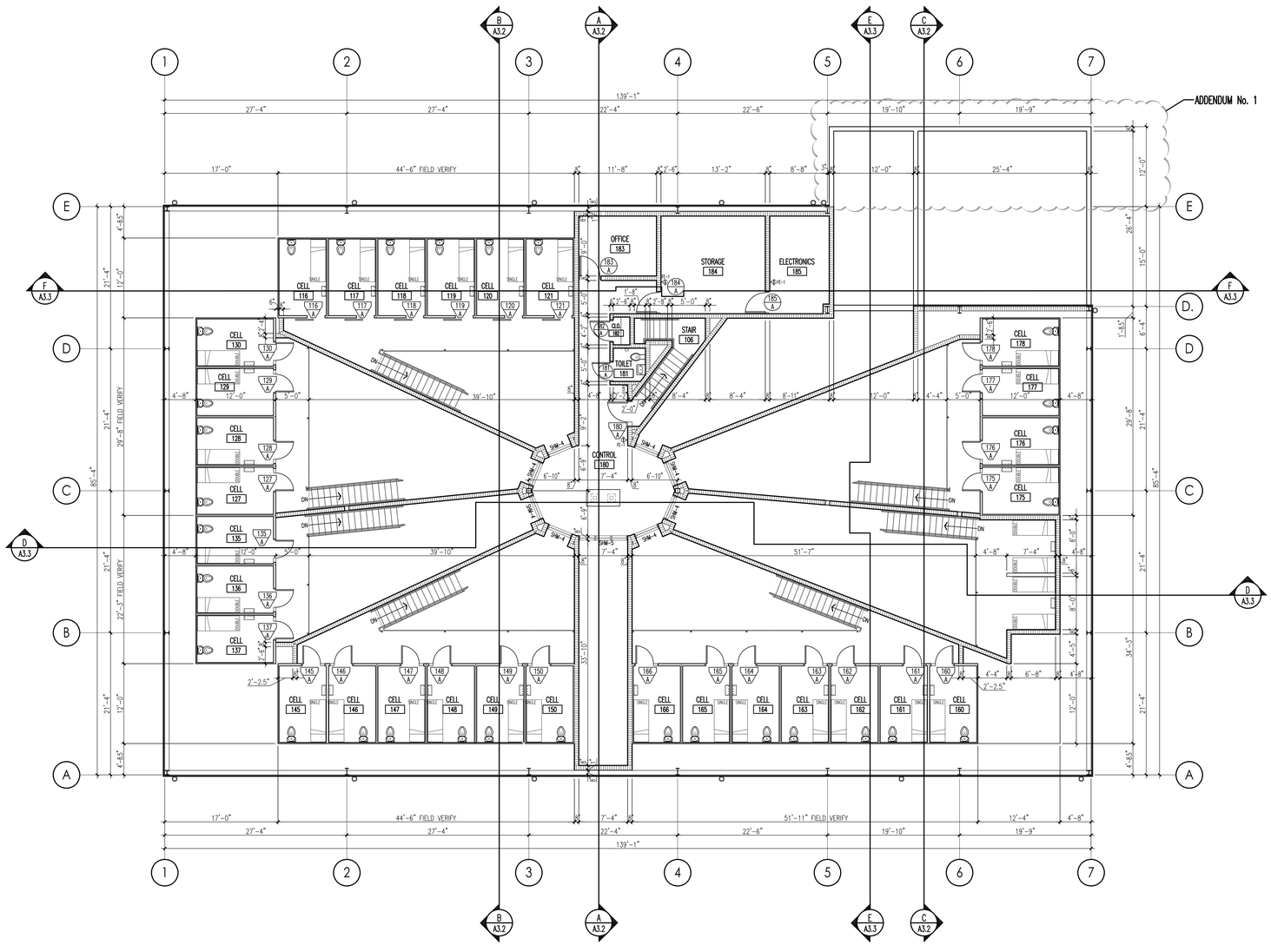
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HOUSING LOWER FLOOR PLAN

A2.1



HOUSING UPPER FLOOR PLAN

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

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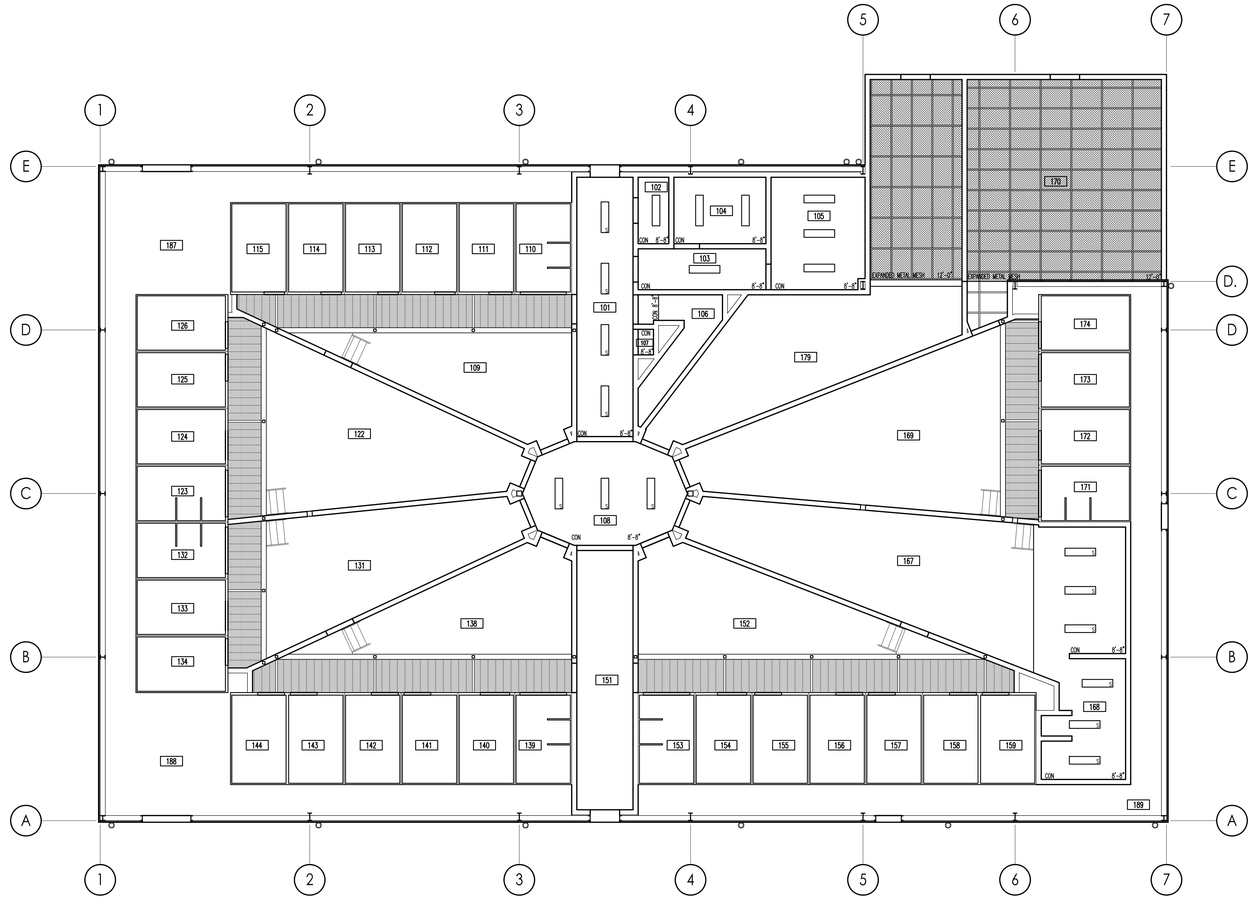
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REV.	BID SET 25 JUNE, 2025	REV.	
REV.		REV.	

HOUSING UPPER FLOOR PLAN

A2.2

LEGEND

	2' x 4' LAY-IN LED LIGHT FIXTURE
	1' x 4' WRAP AROUND LED LIGHT FIXTURE
	SECURITY 1' x 4' WRAP AROUND LED LIGHT FIXTURE
	2' x 2' SUSPENDED LAY-IN ACOUSTICAL TILE CEILING
CON	CONCRETE CEILING
GWB	GYPSUM WALLBOARD
ARGWB	ABUSE RESISTANT GWB WITH METAL LATHE BACKING
ATC	ACOUSTICAL TILE CEILING
EXP	EXPOSED
DS	DOWNSPOUT



LOWER FLOOR REFLECTED CEILING PLAN

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

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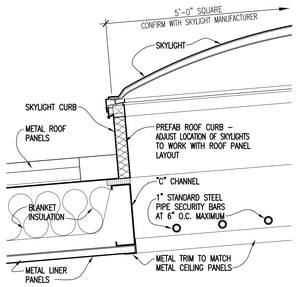
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REV.		REV.	

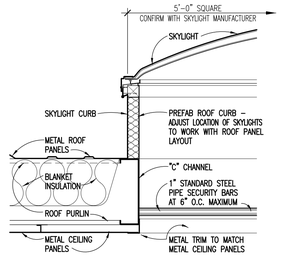
LOWER FLOOR REFLECTED CEILING PLAN

A2.3



SKYLIGHT DETAIL 1 A2.4

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

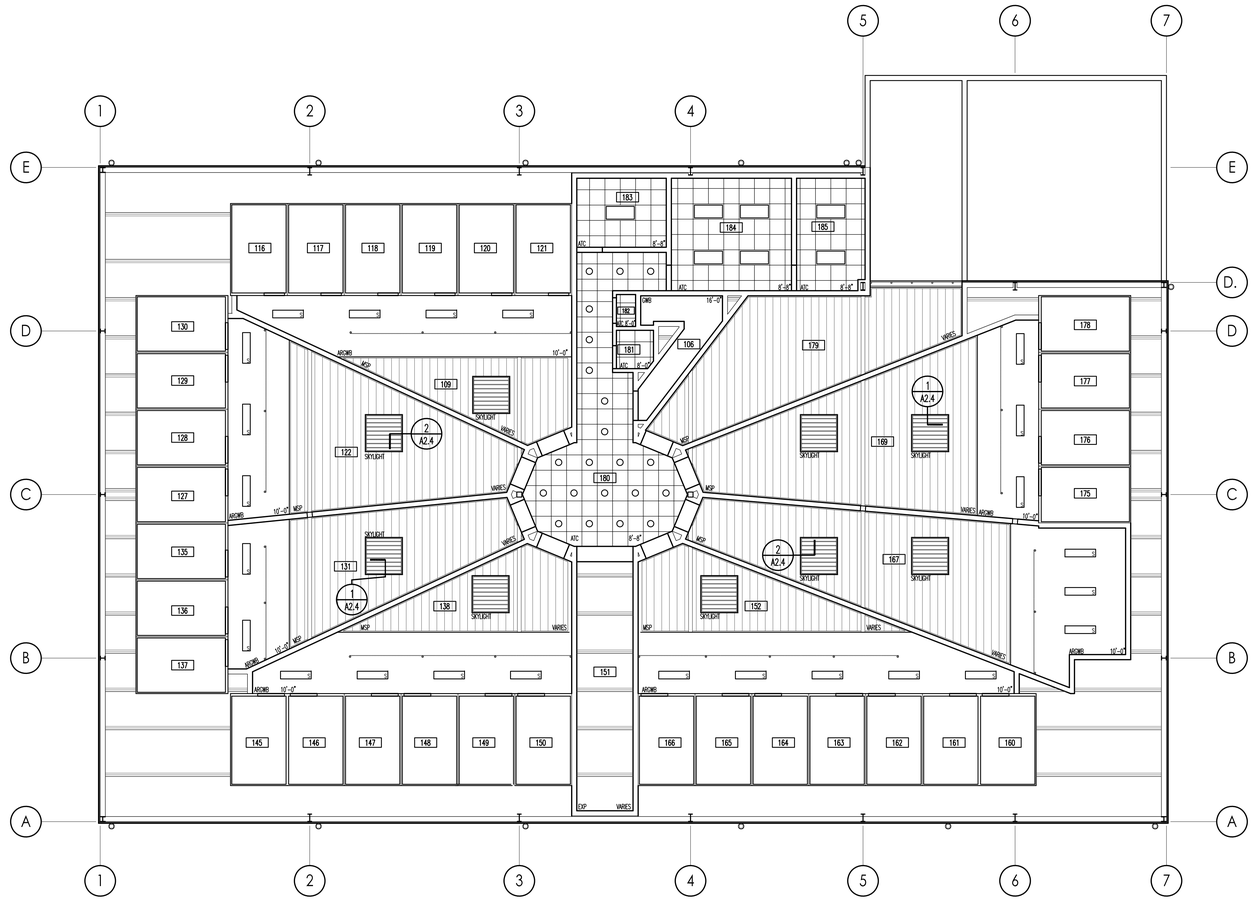


SKYLIGHT DETAIL 2 A2.4

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

LEGEND

	2' x 4' LAY-IN LED LIGHT FIXTURE
	1' x 4' WRAP AROUND LED LIGHT FIXTURE
	SECURITY 1' x 4' WRAP AROUND LED LIGHT FIXTURE
	2' x 2' SUSPENDED LAY-IN ACOUSTICAL TILE CEILING
CON	CONCRETE CEILING
GWB	GYPSUM WALLBOARD
ARGWB	ABUSE RESISTANT GWB WITH METAL LATHE BACKING
ATC	ACOUSTICAL TILE CEILING
EXP	EXPOSED
DS	DOWNSPOUT



UPPER FLOOR REFLECTED CEILING PLAN

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

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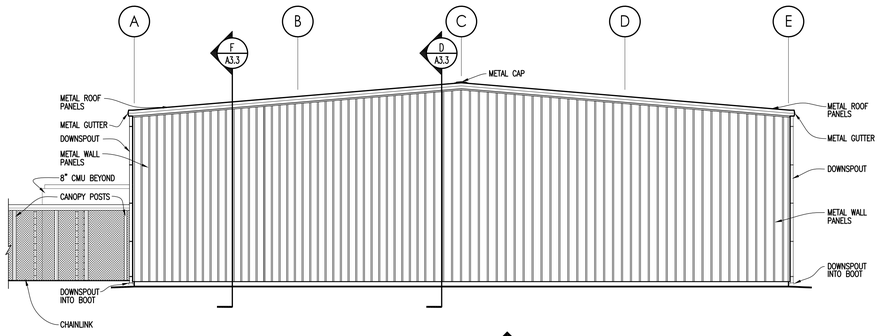
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REV.	REV.

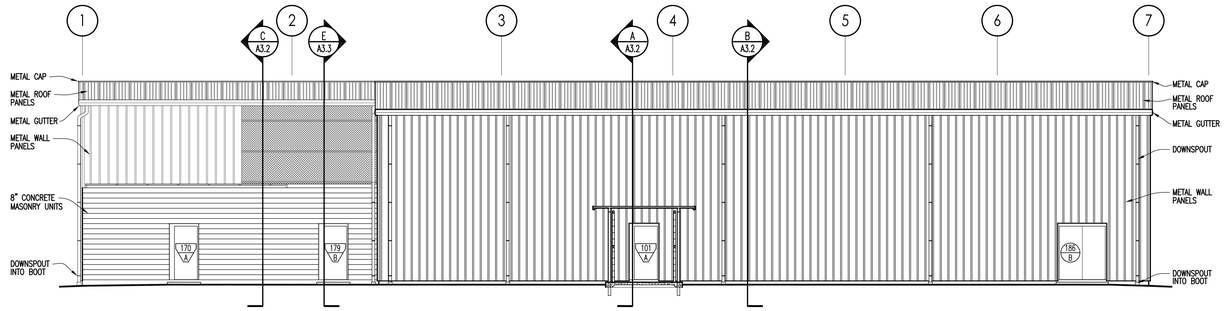
UPPER FLOOR REFLECTED CEILING PLAN

A2.4



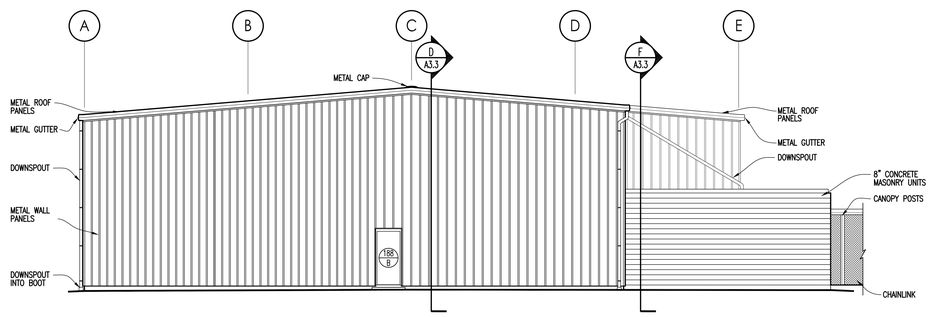
ELEVATION D A3.1

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



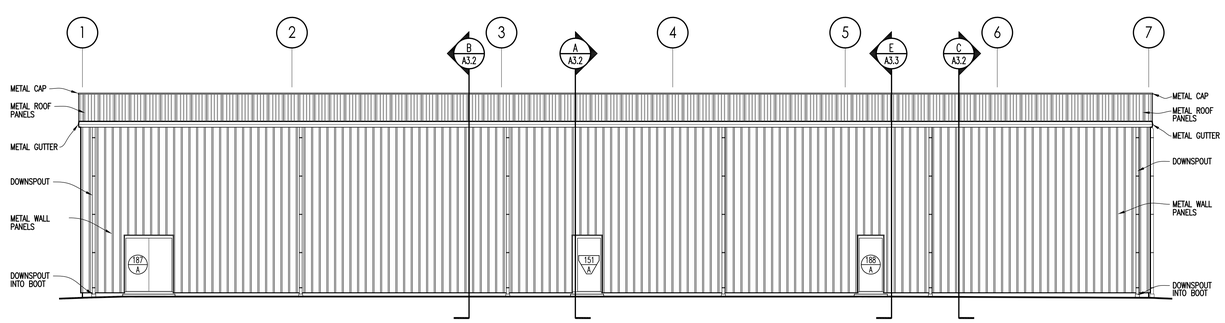
ELEVATION C A3.1

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



ELEVATION B A3.1

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



ELEVATION A A3.1

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

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P.(229) 244-1188
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NEWBERRY, SOUTH CAROLINA

STATE OF SOUTH CAROLINA
JAMES H. INGRAM
VALDOSTA, GEORGIA
No. 8990
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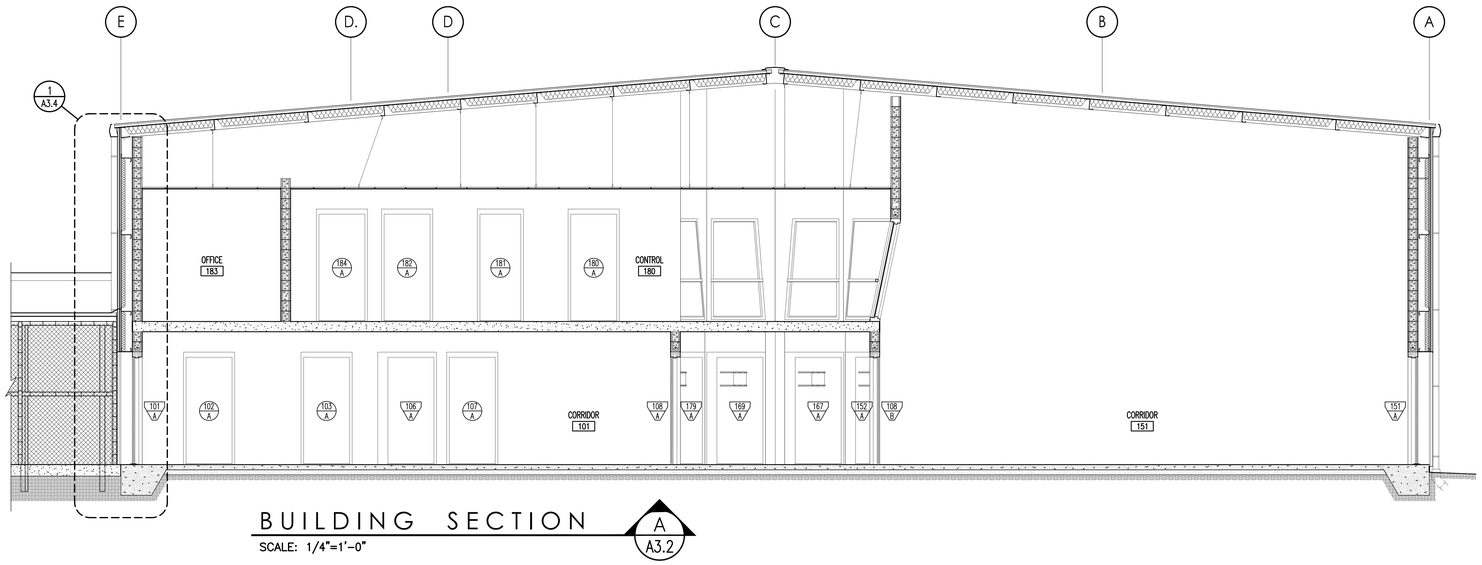
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CHECKED	JI
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REV.	REV.

ELEVATIONS

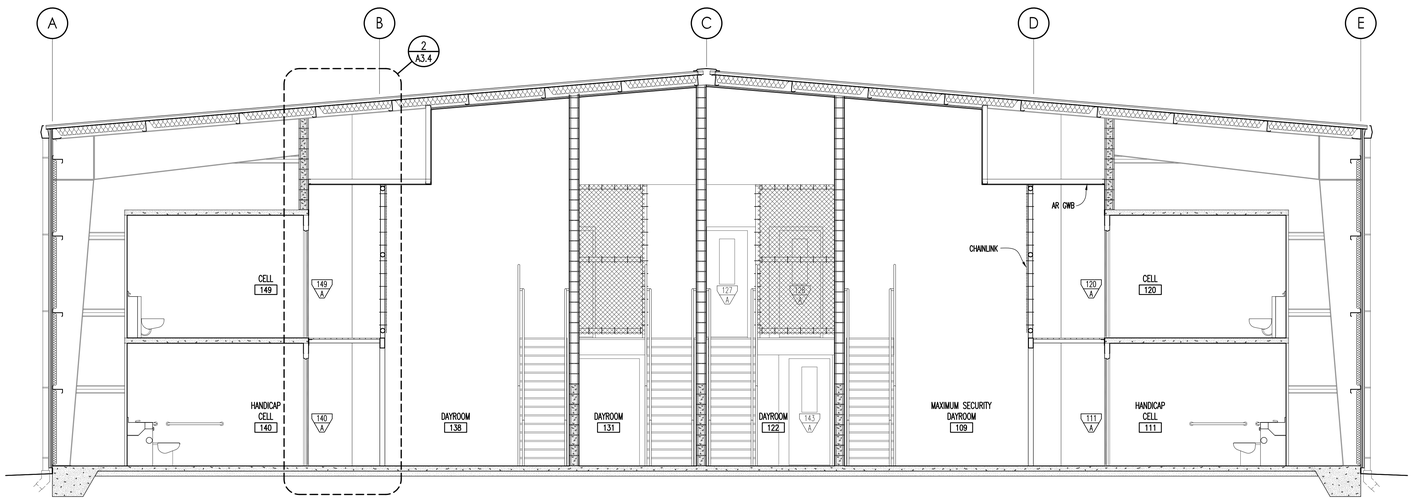
A3.1



BUILDING SECTION

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

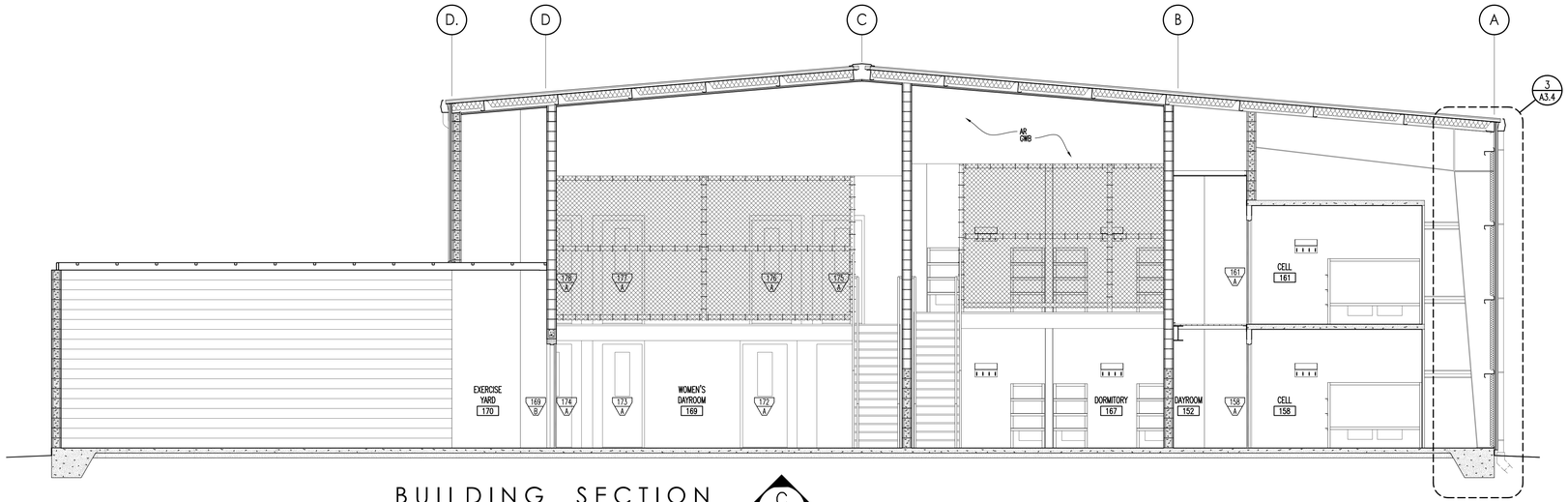
A
A3.2



BUILDING SECTION

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

B
A3.2



BUILDING SECTION

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

C
A3.2

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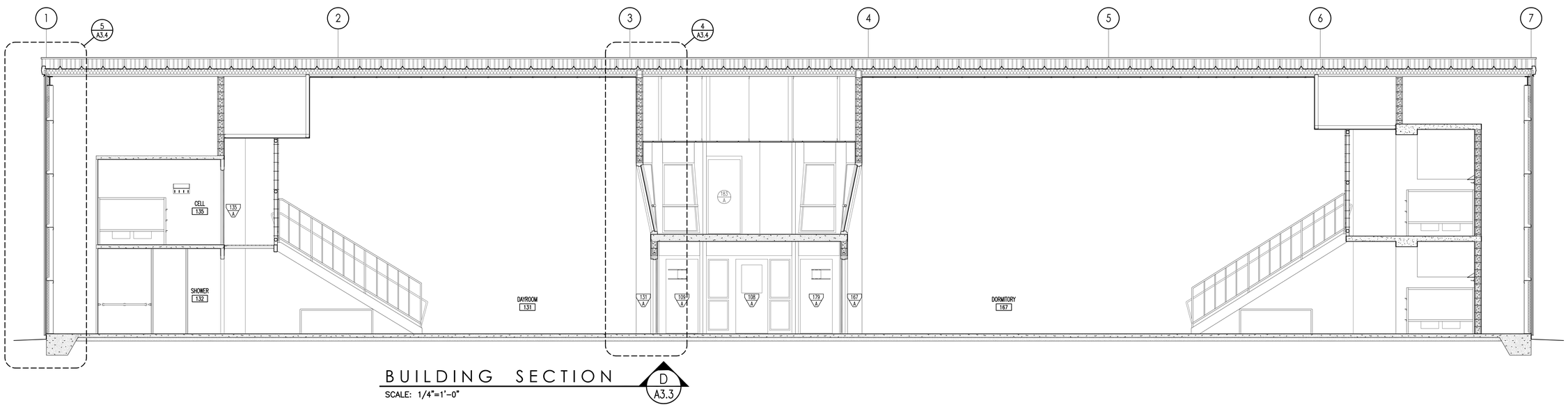
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REV.		REV.	

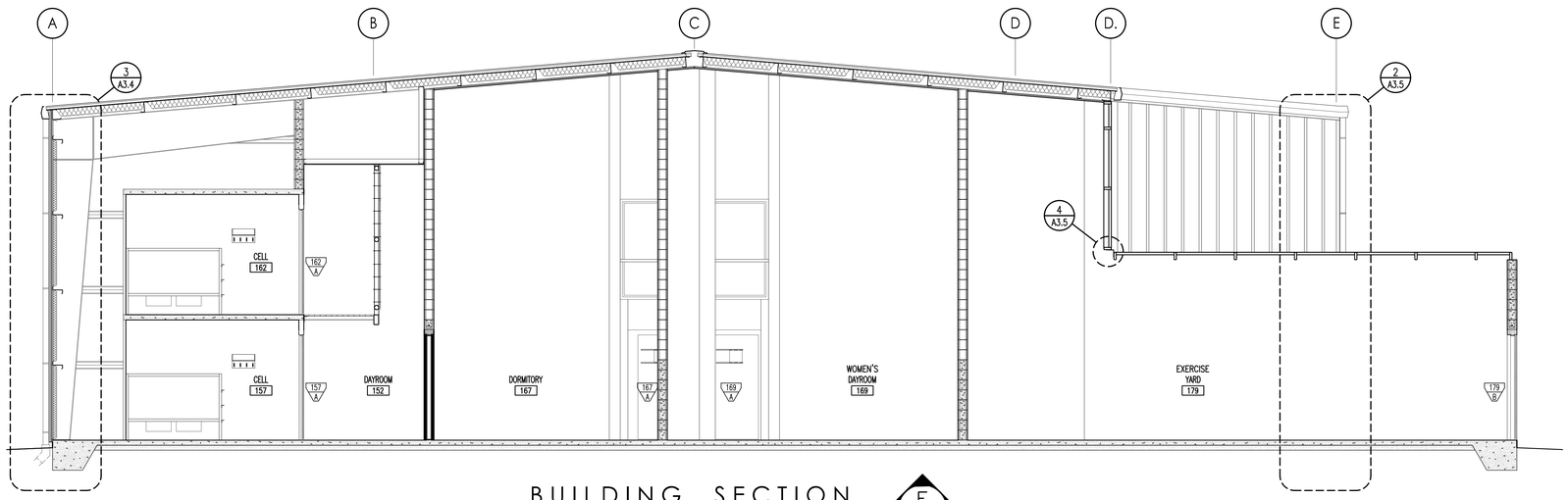
BUILDING SECTIONS

A3.2



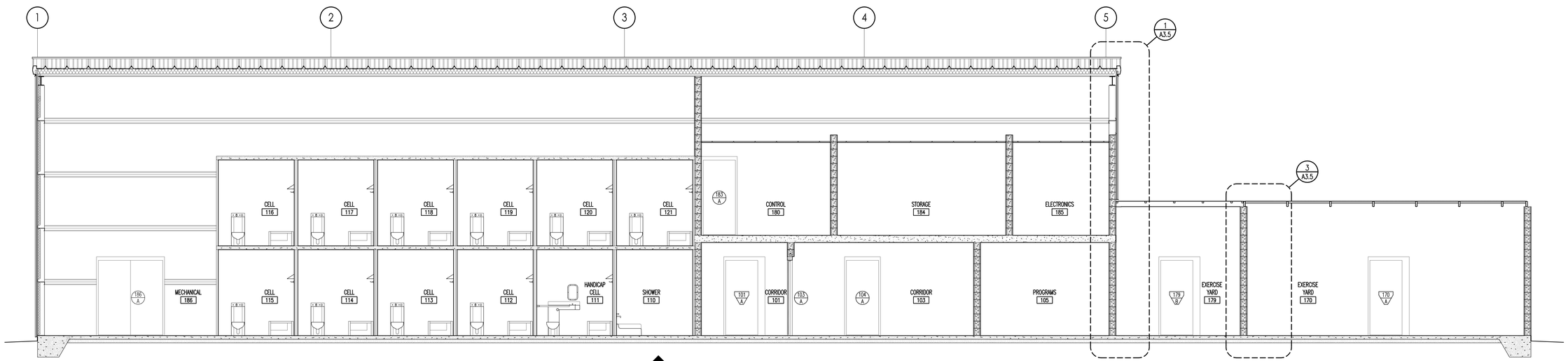
BUILDING SECTION D A3.3

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



BUILDING SECTION E A3.3

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



BUILDING SECTION F A3.3

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

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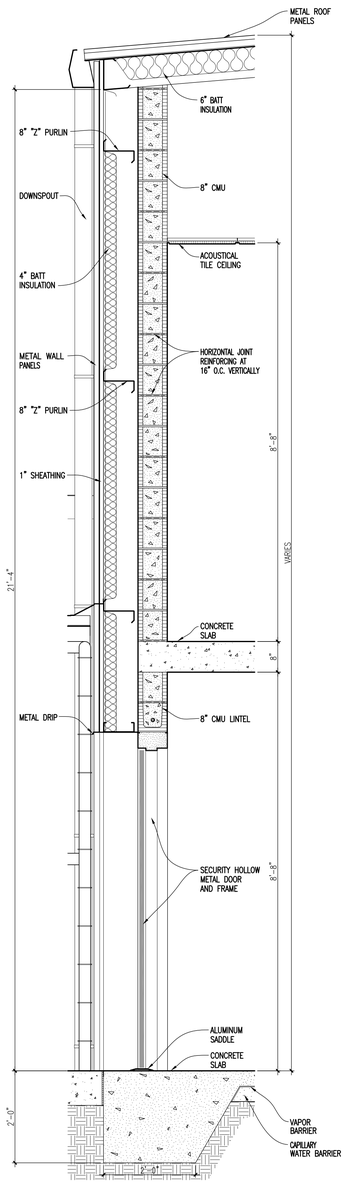
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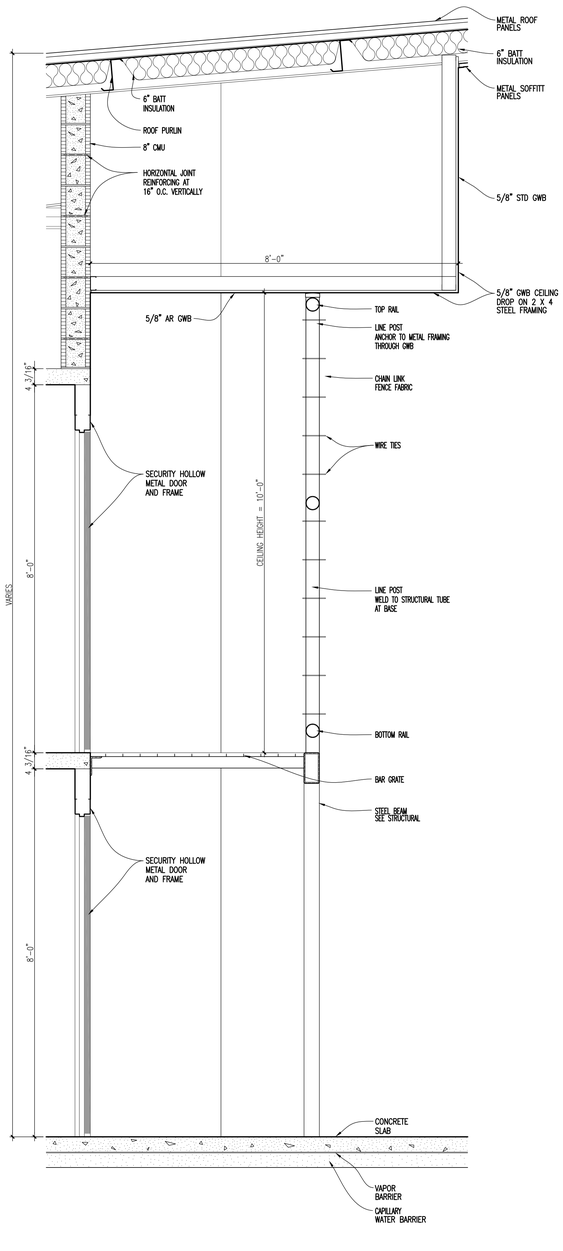
REV. 1	CODE COMPLIANCE 6 FEBRUARY, 2025	REV.	
REV.	CODE COMPLIANCE REV. MAY 30, 2025	REV.	
REV.	BID SET 25 JUNE, 2025	REV.	
REV.		REV.	

BUILDING SECTIONS

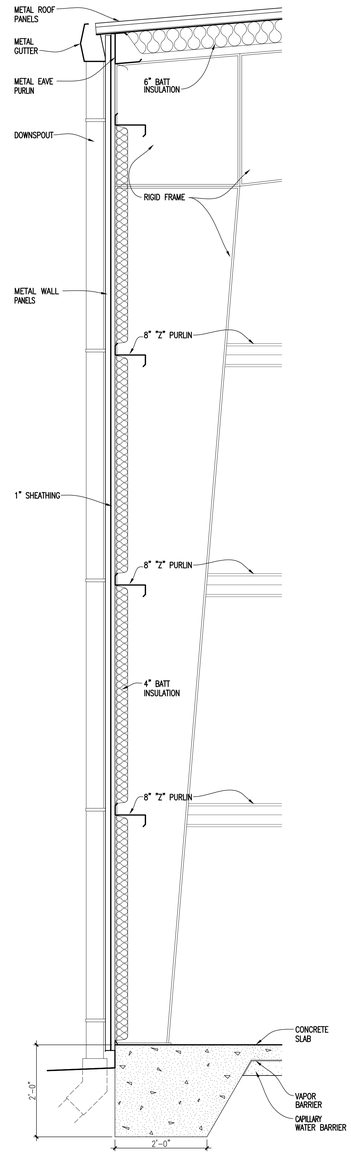
A3.3



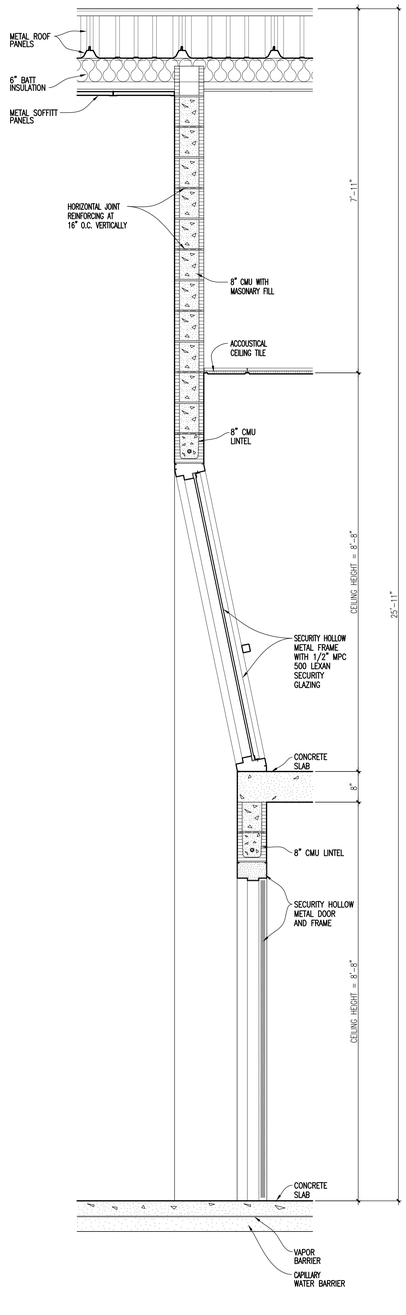
SECTION 1
SCALE: 3/4"=1'-0"
A3.4



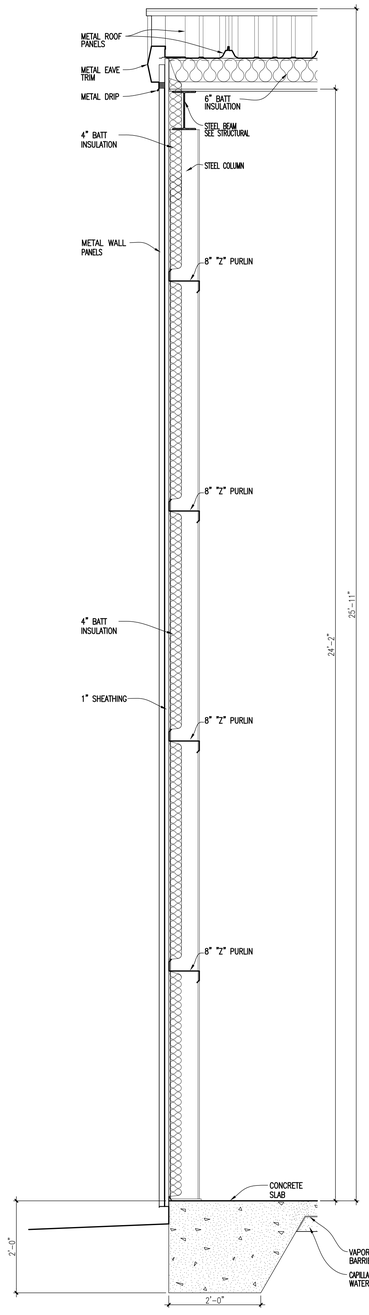
SECTION 2
SCALE: 3/4"=1'-0"
A3.4



SECTION 3
SCALE: 3/4"=1'-0"
A3.4



SECTION 4
SCALE: 3/4"=1'-0"
A3.4



SECTION 5
SCALE: 3/4"=1'-0"
A3.4

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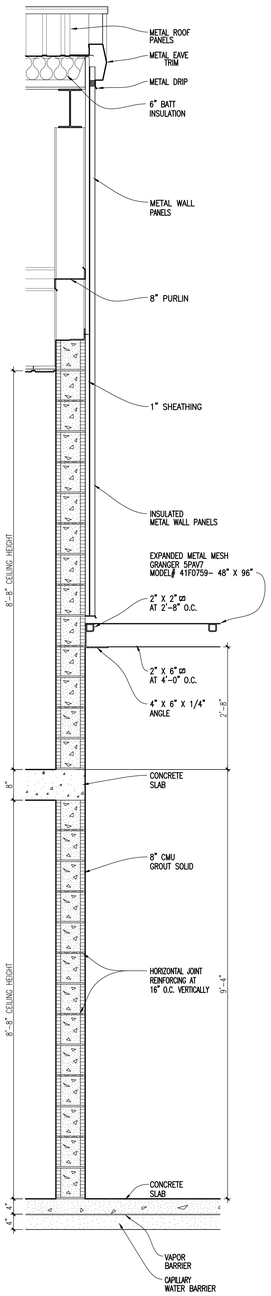
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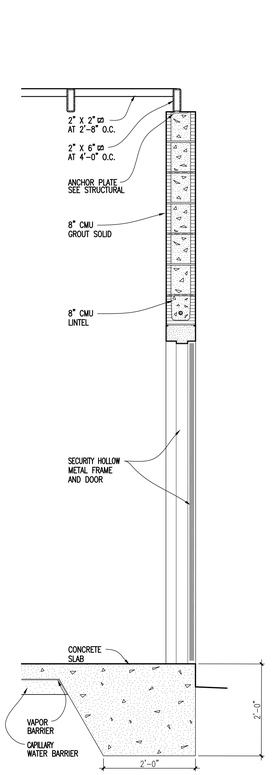
REV. 1	CODE COMPLIANCE 6 FEBRUARY, 2025	REV.	
REV.	CODE COMPLIANCE REV. MAY 30, 2025	REV.	
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REV.		REV.	

WALL SECTIONS

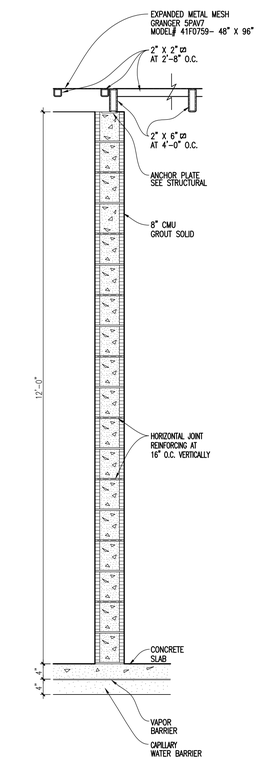
A3.4



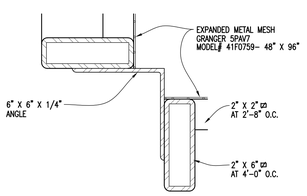
SECTION 1
SCALE: 3/4"=1'-0"
A3.5



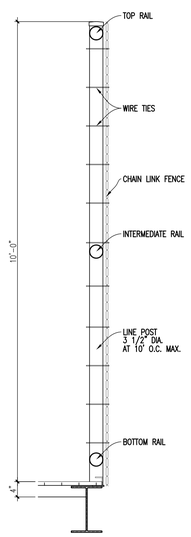
SECTION 2
SCALE: 3/4"=1'-0"
A3.5



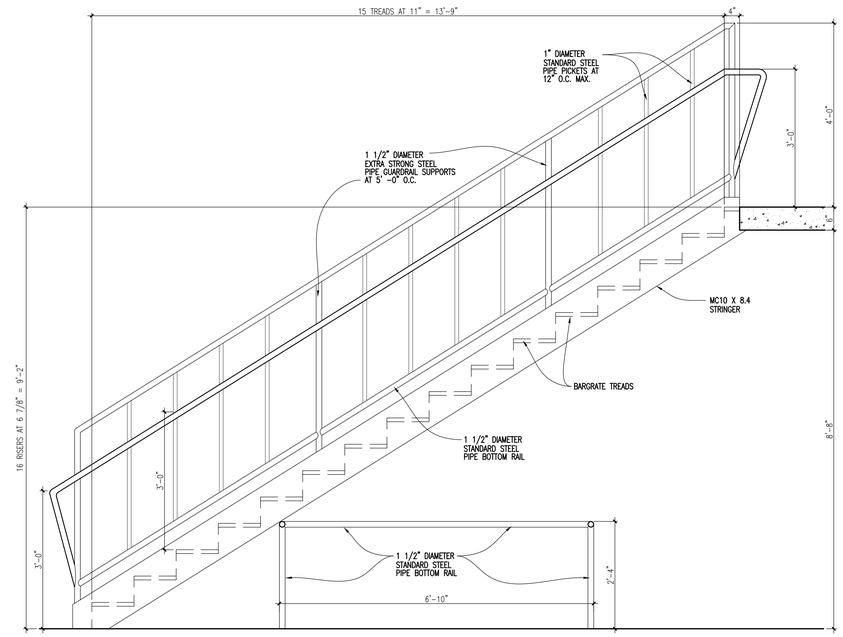
SECTION 3
SCALE: 3/4"=1'-0"
A3.5



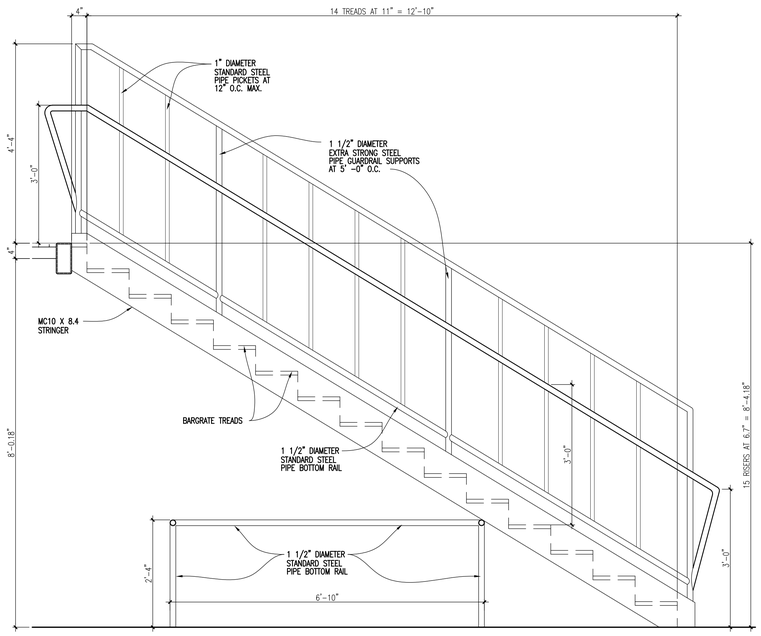
SECTION 4
SCALE: 3" = 1'-0"
A3.5



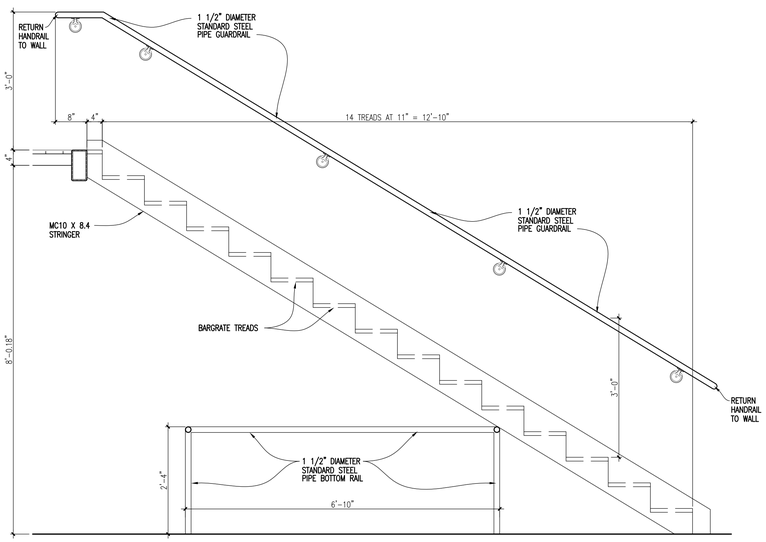
RAILING DETAIL
SCALE: 3/4"=1'-0"
5
A3.5



DORMITORY STAIR SECTION
SCALE: 3/4"=1'-0"
8
A3.5



DAYROOM STAIR SECTION
SCALE: 3/4"=1'-0"
7
A3.5



DAYROOM STAIR SECTION
SCALE: 3/4"=1'-0"
6
A3.5

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REV.		REV.	

WALL SECTIONS

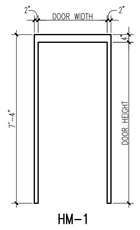
A3.5

SECURITY DOOR SCHEDULE

NO.	LOCATION	WIDTH	HEIGHT	THICK	DOOR TYPE	FRAME TYPE	DETAILS	HD'W	REMARKS	NO.
101A	CORRIDOR	3'-0"	7'-0"	2"	SDG5	SHM-2	10,11,12/A4.2	SH-1		101A
106A	STAIR	3'-0"	7'-0"	2"	SD	SHM-2	3,4,5/A4.2	SH-2		106A
108A	LOBBY	3'-0"	7'-0"	2"	SDG4	SHM-3	4,6,7/A4.2	SH-2		108A
108B	LOBBY	3'-0"	7'-0"	2"	SDG5	SHM-3	4,6,7/A4.2	SH-2		108B
109A	MAX. SECURITY DAYROOM	3'-0"	7'-0"	2"	SDG3	SHM-2	3,4,5/A4.2	SH-2		109A
109B	MAX. SECURITY DAYROOM	3'-0"	7'-0"	2"	SD	SHM-2	20,21,22,23/A4.2			109B
109C	MAX. SECURITY DAYROOM	3'-0"	7'-0"	2"	SD	SHM-2	3,4,5/A4.2	SH-2		109C
110A	SHOWER	3'-0"	7'-2"	2"	--	--	2/A4.1	SH-4	SEE A/A4.1 FOR SHOWER DOOR PLAN AND ELEVATION	110A
111A	HANDICAP CELL	3'-0"	7'-0"	2"	SDG2	--	13,14/A4.2	SH-5		111A
112A	CELL	2'-8"	7'-0"	2"	SDG2	--	13,14/A4.2	SH-5		112A
113A	CELL	2'-8"	7'-0"	2"	SDG2	--	13,14/A4.2	SH-5		113A
114A	CELL	2'-8"	7'-0"	2"	SDG2	--	13,14/A4.2	SH-5		114A
115A	CELL	2'-8"	7'-0"	2"	SDG2	--	13,14/A4.2	SH-5		115A
116A	CELL	2'-8"	7'-0"	2"	SDG2	--	13,14/A4.2	SH-5		116A
117A	CELL	2'-8"	7'-0"	2"	SDG2	--	13,14/A4.2	SH-5		117A
118A	CELL	2'-8"	7'-0"	2"	SDG2	--	13,14/A4.2	SH-5		118A
119A	CELL	2'-8"	7'-0"	2"	SDG2	--	13,14/A4.2	SH-5		119A
120A	CELL	2'-8"	7'-0"	2"	SDG2	--	13,14/A4.2	SH-5		120A
121A	CELL	2'-8"	7'-0"	2"	SDG2	--	13,14/A4.2	SH-5		121A
122A	DAYROOM	3'-0"	7'-0"	2"	SDG3	SHM-2	3,4,5/A4.2	SH-2		122A
122B	DAYROOM	3'-0"	7'-0"	2"	SD	SHM-2	20,21,22,23/A4.2			122B
124A	HANDICAP 2 MAN CELL	3'-0"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		124A
125A	2 MAN CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		125A
126A	2 MAN CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		126A
127A	2 MAN CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		127A
128A	2 MAN CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		128A
129A	2 MAN CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		129A
130A	2 MAN CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		130A
131A	DAYROOM	3'-0"	7'-0"	2"	SDG3	SHM-2	3,4,5/A4.2	SH-2		131A
131B	DAYROOM	3'-0"	7'-0"	2"	SD	SHM-2	20,21,22,23/A4.2			131B
133A	HANDICAP 2 MAN CELL	3'-0"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		133A
134A	2 MAN CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		134A
135A	2 MAN CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		135A
136A	2 MAN CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		136A
137A	2 MAN CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		137A
138A	DAYROOM	3'-0"	7'-0"	2"	SDG3	SHM-2	3,4,5/A4.2	SH-2		138A
138B	DAYROOM	3'-0"	7'-0"	2"	SD	SHM-2	20,21,22,23/A4.2			138B
138C	DAYROOM	3'-0"	7'-0"	2"	SD	SHM-2	3,4,5/A4.2	SH-2		138C
140A	HANDICAP CELL	3'-0"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		140A
141A	CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		141A
142A	CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		142A
143A	CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		143A
144A	CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		144A
145A	CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		145A
146A	CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		146A
147A	CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		147A
148A	CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		148A
149A	CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		149A
150A	CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		150A
151A	CORRIDOR	3'-0"	7'-0"	2"	SDG5	SHM-2	10,11,12/A4.2	SH-1		151A
152A	DAYROOM	3'-0"	7'-0"	2"	SDG3	SHM-2	3,4,5/A4.2	SH-2		152A
152B	DAYROOM	3'-0"	7'-0"	2"	SD	SHM-2	20,21,22,23/A4.2			152B
152C	DAYROOM	3'-0"	7'-0"	2"	SD	SHM-2	3,4,5/A4.2	SH-2		152C
154A	HANDICAP CELL	3'-0"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		154A
155A	CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		155A
156A	CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		156A
157A	CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		157A
158A	CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		158A
159A	CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		159A
160A	CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		160A
161A	CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		161A
162A	CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		162A
163A	CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		163A
164A	CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		164A
165A	CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		165A
166A	CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		166A
167A	DORMITORY	3'-0"	7'-0"	2"	SDG3	SHM-2	3,4,5/A4.2	SH-2		167A
167B	DORMITORY	3'-0"	7'-0"	2"	SD	SHM-2	20,21,22,23/A4.2			167B
169A	WOMEN' DAYROOM	3'-0"	7'-0"	2"	SDG3	SHM-2	3,4,5/A4.2	SH-2		169A
169B	WOMEN' DAYROOM	3'-0"	7'-0"	2"	SD	SHM-2	3,4,5/A4.2	SH-1		169B
170A	EXERCISE YARD	3'-0"	7'-0"	2"	SD	SHM-2	3,4,5/A4.2	SH-1		170A
172A	HANDICAP 2 MAN CELL	3'-0"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		172A
173A	2 MAN CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		173A
174A	2 MAN CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		174A
175A	2 MAN CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		175A
176A	2 MAN CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		176A
177A	2 MAN CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		177A
178A	2 MAN CELL	2'-8"	7'-0"	2"	SDG1	SHM-2	15,16,17/A4.2	SH-3		178A
179A	EXERCISE YARD	3'-0"	7'-0"	2"	SDG3	SHM-2	3,4,5/A4.2	SH-2		179A
179B	EXERCISE YARD	3'-0"	7'-0"	2"	SD	SHM-2	3,4,5/A4.2	SH-1		179B
180A	CONTROL	3'-0"	7'-0"	2"	SDG4	SHM-2	3,4,5/A4.2	SH-2		180A

DOOR SCHEDULE

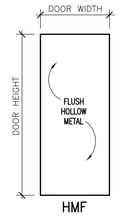
NO.	LOCATION	WIDTH	HEIGHT	THICK	DOOR TYPE	FRAME TYPE	DETAILS	HD'W	REMARKS	NO.
102A	JANITOR	3'-0"	7'-0"	1 3/4"	HMF	HM-1	1,2/A4.2	BH-1		102A
103A	CORRIDOR	3'-0"	7'-0"	1 3/4"	HMF	HM-1	1,2/A4.2	BH-2		103A
104A	EXAM	3'-0"	7'-0"	1 3/4"	HMF	HM-1	1,2/A4.2	BH-3		104A
105A	MULTI-PURPOSE	3'-0"	7'-0"	1 3/4"	HMF	HM-1	1,2/A4.2	BH-3		105A
107A	CLOSET	3'-0"	7'-0"	1 3/4"	HMF	HM-1	1,2/A4.2	BH-1		107A
181A	TIOLET	2'-8"	7'-0"	1 3/4"	HMF	HM-1	18,19/A4.2	BH-4		181A
182A	CLOSET	3'-0"	7'-0"	1 3/4"	HMF	HM-1	18,19/A4.2	BH-1		182A
183A	OFFICE	3'-0"	7'-0"	1 3/4"	HMF	HM-1	1,2/A4.2	BH-3		183A
184A	STORAGE	3'-0"	7'-0"	1 3/4"	HMF	HM-1	1,2/A4.2	BH-1		184A
185A	ELECTRONICS	3'-0"	7'-0"	1 3/4"	HMF	HM-1	1,2/A4.2	BH-1		185A
186A	MECHANICAL	PR. 3'-0"	7'-0"	1 3/4"	HMF	HM-1	8,9/A4.2	BH-5		186A
187A	MECHANICAL	PR. 3'-0"	7'-0"	1 3/4"	HMF	HM-1	8,9/A4.2	BH-5		187A
188A	CHASE	3'-0"	7'-0"	1 3/4"	HMF	HM-1	8,9/A4.2	BH-6		188A
188B	CHASE	3'-0"	7'-0"	1 3/4"	HMF	HM-1	8,9/A4.2	BH-6		188B



HM-1

HOLLOW METAL FRAME TYPE

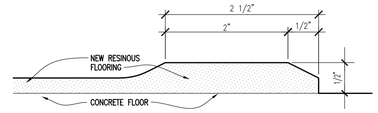
SCALE: 3/8"=1'-0"



HMF

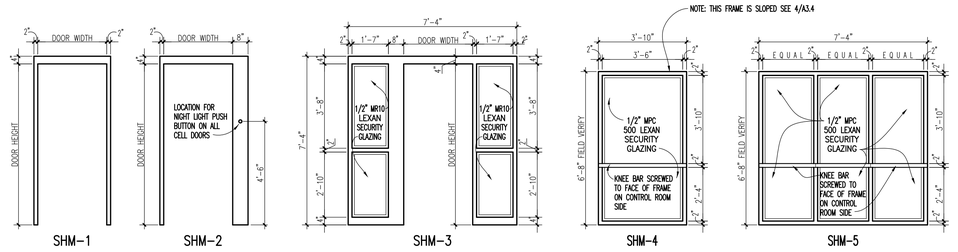
DOOR TYPE

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



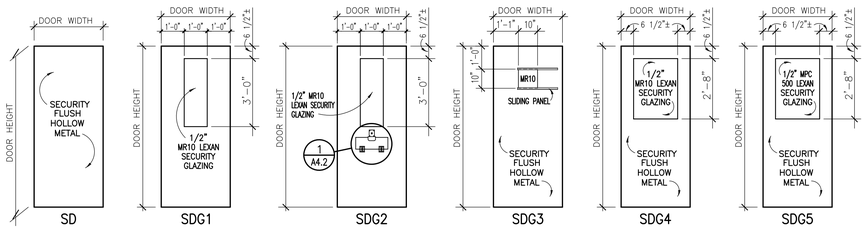
MARBLE THRESHOLD AT CELL SHOWERS

FULL SCALE



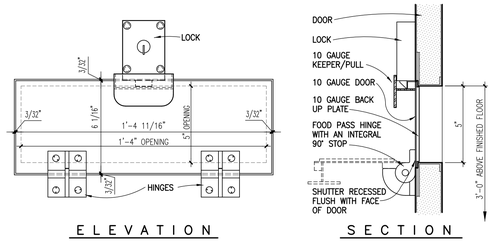
SECURITY HOLLOW METAL FRAME TYPES

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



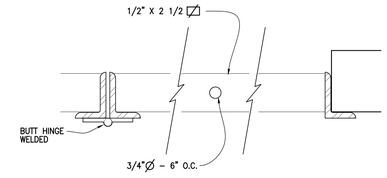
SECURITY DOOR TYPES

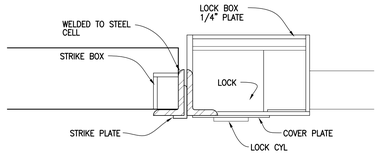
SCALE: 3/8"=1'-0"



FOOD PASS DETAIL 1 A4.1

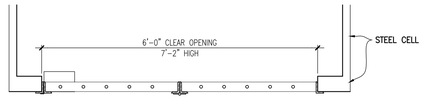
SCALE: 3"=1'-0"





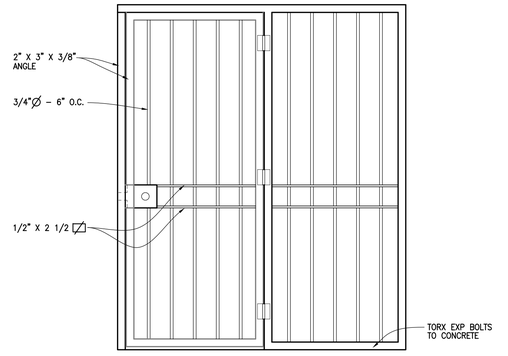
SHOWER DOOR DETAILS 2 A4.1

SCALE: 3"=1'-0"



PLAN

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



SHOWER 110

ELEV. A A4.1

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

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Valdosta, Georgia 31602
P.(229) 244-1188
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NEWBERRY, SOUTH CAROLINA

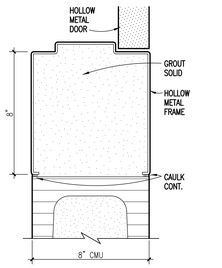
STATE OF SOUTH CAROLINA — JAMES H. INGRAM — VALDOSTA, GEORGIA — NO. 8990 — REGISTERED ARCHITECT

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JOB #	220006.01	
DATE	12 JULY,2024	© 2025 STUDIO8 design, LLC

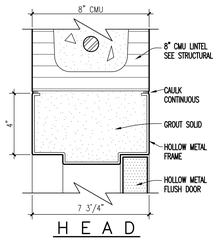
REV. 1	CODE COMPLIANCE 6 FEBRUARY, 2025	REV.	
REV.	CODE COMPLIANCE REV. MAY 30, 2025	REV.	
REV.	BID SET 25 JUNE, 2025	REV.	
REV.		REV.	

DOOR SCHEDULES, DOOR & FRAME TYPES

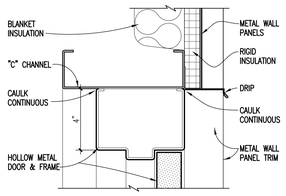
A4.1



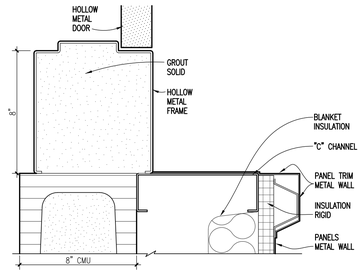
JAMB DETAIL 5 — SCALE: 3"=1'-0" — A4.2



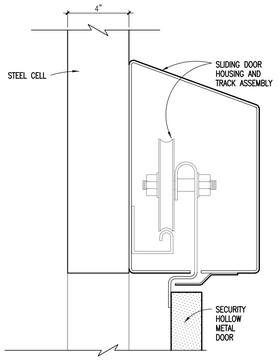
HEAD DETAIL 4 — SCALE: 3"=1'-0" — A4.2



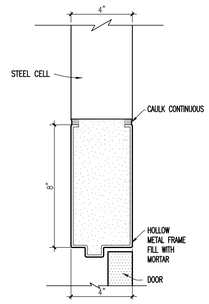
HEAD DETAIL 9 — SCALE: 3"=1'-0" — A4.2



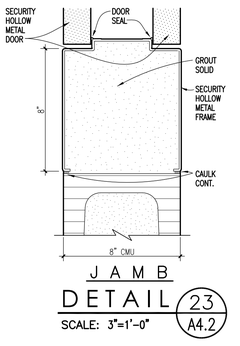
JAMB DETAIL 12 — SCALE: 3"=1'-0" — A4.2



HEAD DETAIL 14 — SCALE: 3"=1'-0" — A4.2



JAMB DETAIL 17 — SCALE: 3"=1'-0" — A4.2



JAMB DETAIL 23 — SCALE: 3"=1'-0" — A4.2

JAMB DETAIL 3 — SCALE: 3"=1'-0" — A4.2

JAMB DETAIL 8 — SCALE: 3"=1'-0" — A4.2

JAMB DETAIL 15 — SCALE: 3"=1'-0" — A4.2

HEAD DETAIL 19 — SCALE: 3"=1'-0" — A4.2

HEAD DETAIL 22 — SCALE: 3"=1'-0" — A4.2

JAMB DETAIL 1 — SCALE: 3"=1'-0" — A4.2

JAMB DETAIL 7 — SCALE: 3"=1'-0" — A4.2

HEAD DETAIL 11 — SCALE: 3"=1'-0" — A4.2

JAMB DETAIL 16 — SCALE: 3"=1'-0" — A4.2

JAMB DETAIL 18 — SCALE: 3"=1'-0" — A4.2

JAMB DETAIL 21 — SCALE: 3"=1'-0" — A4.2

JAMB DETAIL 10 — SCALE: 3"=1'-0" — A4.2

JAMB DETAIL 13 — SCALE: 3"=1'-0" — A4.2

JAMB DETAIL 6 — SCALE: 3"=1'-0" — A4.2

JAMB DETAIL 21 — SCALE: 3"=1'-0" — A4.2

SILL DETAIL 20 — SCALE: 3"=1'-0" — A4.2

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2722 North Oak Street
Valdosta, Georgia 31602
P. (229) 244-1188
info@s8darchitects.com
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NEWBERRY COUNTY DETENTION CENTER
NEWBERRY, SOUTH CAROLINA

STATE OF SOUTH CAROLINA — JAMES H. INGRAM — VALDOSTA, GEORGIA — NO. 8990 — REGISTERED ARCHITECT

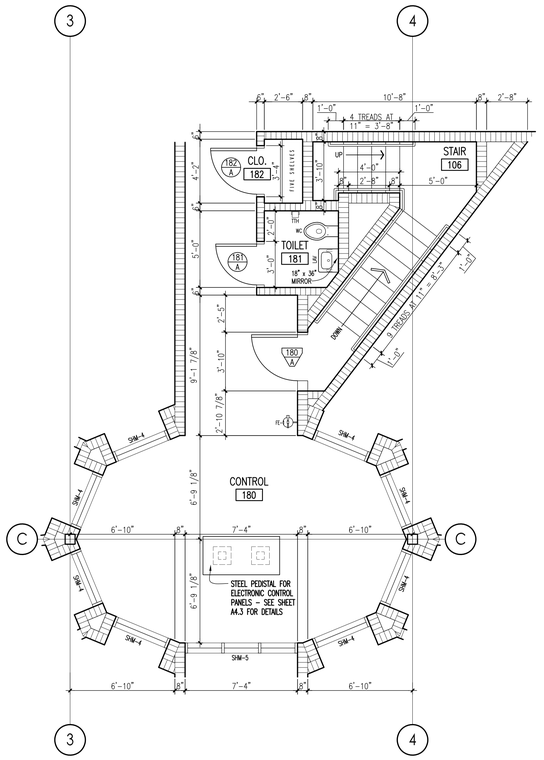
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CHECKED	JI
JOB #	220006.01
DATE	12 JULY,2024

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REV.	CODE COMPLIANCE REV. MAY 26, 2025	REV.	
REV.	BID SET 25 JUNE, 2025	REV.	
REV.		REV.	

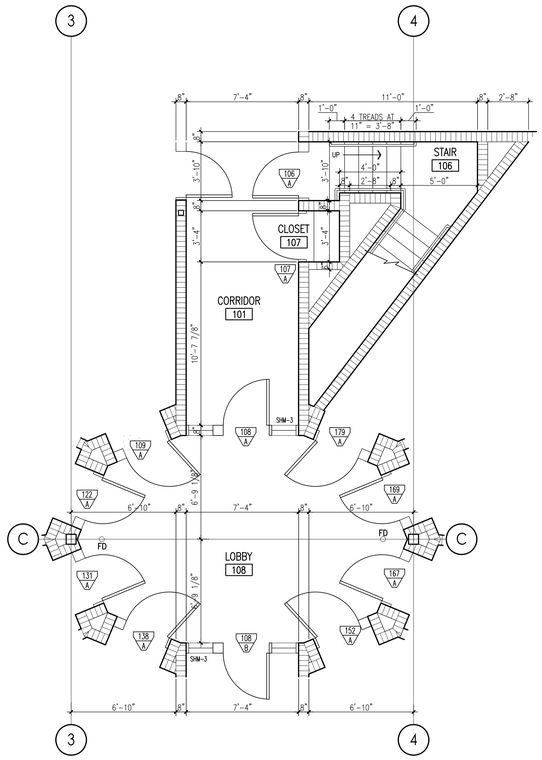
DOOR DETAILS

A4.2



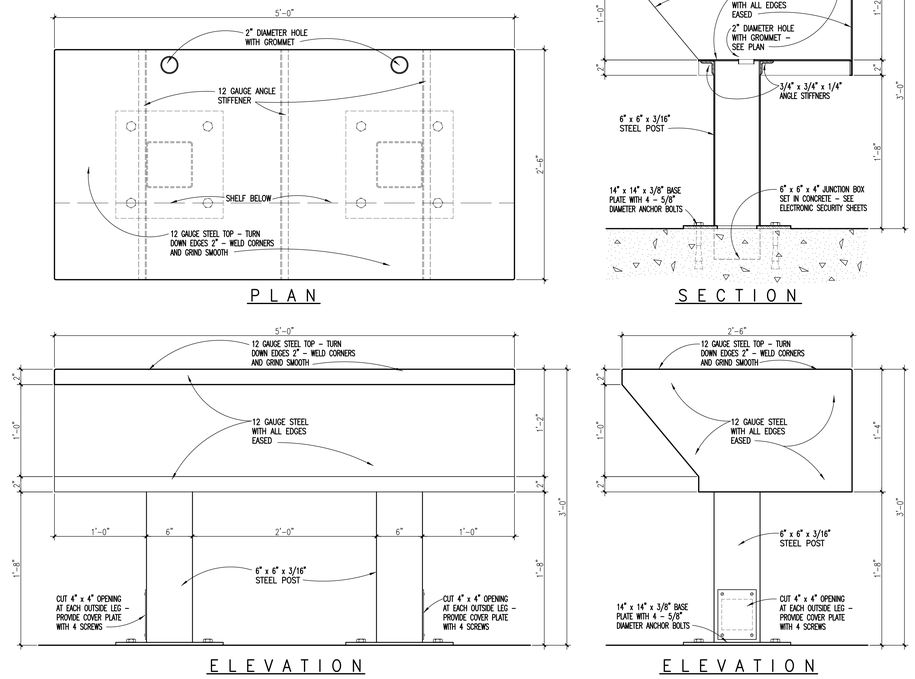
PARTIAL FLOOR PLAN 2 / A4.3

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



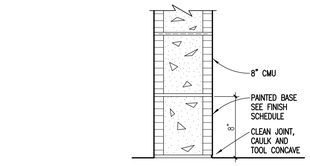
PARTIAL FLOOR PLAN 4 / A4.3

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



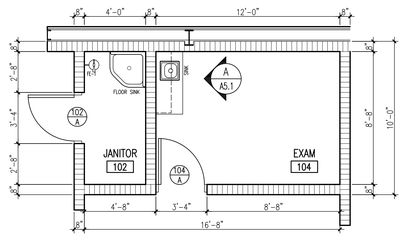
CONTROL ROOM PEDESTAL PLANS & DETAILS

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



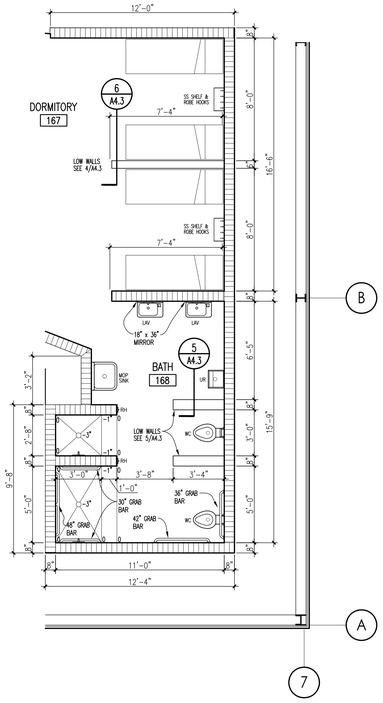
PAINTED BASE DETAIL

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



PARTIAL FLOOR PLAN 1 / A4.3

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

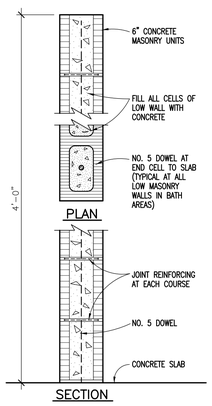


PARTIAL FLOOR PLAN 3 / A4.3

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

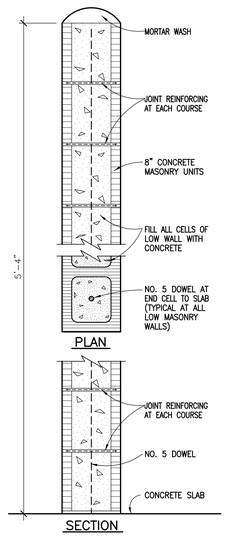
LEGEND

TTH = TOILET TISSUE HOLDER	WC = WATER CLOSET
FD = FLOOR DRAIN	LAV = LAVATORY
RH = ROBE HOOK	UR = URINAL



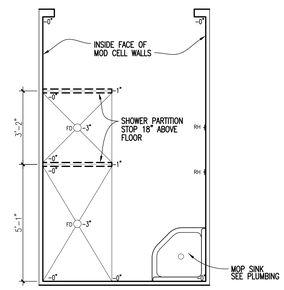
DETAIL 5 / A4.3

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



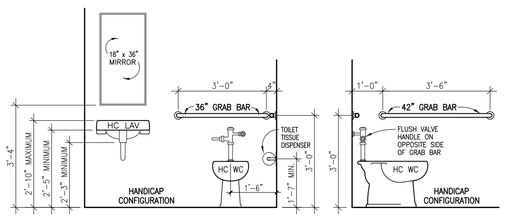
DETAIL 6 / A4.3

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



SHOWER FLOOR SLOPES

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



LAVATORY & TOILET ACCESSORIES MOUNTING HEIGHTS

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

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NEWBERRY, SOUTH CAROLINA

STATE OF SOUTH CAROLINA
JAMES H. INGRAM
No. 8992
REGISTERED ARCHITECT

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REV.	BID SET 25 JUNE, 2025	REV.	
REV.		REV.	

LARGE SCALE PLANS & DETAILS

A4.3

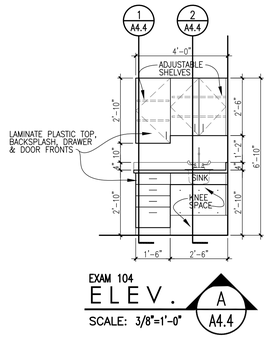
ROOM FINISH SCHEDULE

NO.	ROOM NAME	FLOOR: LVT LUXURY VINYL TILE	FLOOR: CONCRETE	FLOOR: HIGH PERFORMANCE COATING	BASE: RESILIENT PAINTED (6" HIGH)	BASE: HIGH PERFORMANCE COATING	BASE: NONE	WALLS: CMU	WALLS: CMU PAINTED	WALLS: HIGH PERFORMANCE COATING	WALLS: EXPOSED	WALLS: STEEL CELL	CEILING: ACOUSTICAL TILE	CEILING: ABUSE RESISTANT GWB	CEILING: GWB PAINTED	CEILING: CONCRETE PAINTED	CEILING: METAL PANELS	CEILING: EXPOSED	CEILING: STEEL CELL	REMARKS	NO.
101	CORRIDOR		○		P3				P1							P4					101
102	JANITOR		○		P3				P1							P4					102
103	CORRIDOR		○		P3				P1							P4					103
104	EXAM		○		P3				P1							P4					104
105	MULTI-PURPOSE		○		P3				P1							P4					105
106	STAIR		○		P3				P1						P4	⊗				⊗ SEE A2.3 LOCATION OF CEILING CHANGE	106
107	CLOSET		○		P3				P1							P4					107
108	LOBBY		○		P3				P1							P4					108
109	MAX. SECURITY DAYROOM		○		P3				P1								M1				109
110	SHOWER			○			○					○									110
111	HANDICAP CELL		○				○					○								○	111
112	CELL		○				○					○								○	112
113	CELL		○				○					○								○	113
114	CELL		○				○					○								○	114
115	CELL		○				○					○								○	115
116	CELL		○				○					○								○	116
117	CELL		○				○					○								○	117
118	CELL		○				○					○								○	118
119	CELL		○				○					○								○	119
120	CELL		○				○					○								○	120
121	CELL		○				○					○								○	121
122	DAYROOM		○		P3				P1								M1				122
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124	2 MAN HANDICAP CELL		○				○					○								○	124
125	2 MAN CELL		○				○					○								○	125
126	2 MAN CELL		○				○					○								○	126
127	2 MAN CELL		○				○					○								○	127
128	2 MAN CELL		○				○					○								○	128
129	2 MAN CELL		○				○					○								○	129
130	2 MAN CELL		○				○					○								○	130
131	DAYROOM		○		P3				P1								M1				131
132	SHOWER			○			○					○									132
133	2 MAN HANDICAP CELL		○				○					○								○	133
134	2 MAN CELL		○				○					○								○	134
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136	2 MAN CELL		○				○					○								○	136
137	2 MAN CELL		○				○					○								○	137
138	DAYROOM		○		P3				P1								M1				138
139	SHOWER			○			○					○									139
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145	CELL		○				○					○								○	145
146	CELL		○				○					○								○	146
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148	CELL		○				○					○								○	148
149	CELL		○				○					○								○	149
150	CELL		○				○					○								○	150
151	CORRIDOR		○		P3				P1												151
152	DAYROOM		○		P3				P1								M1				152
153	SHOWER			○			○					○									153
154	HANDICAP CELL		○				○					○								○	154
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168	BATH		⊗		⊗				⊗							P4				⊗ HIGH PERFORMANCE COATING	168
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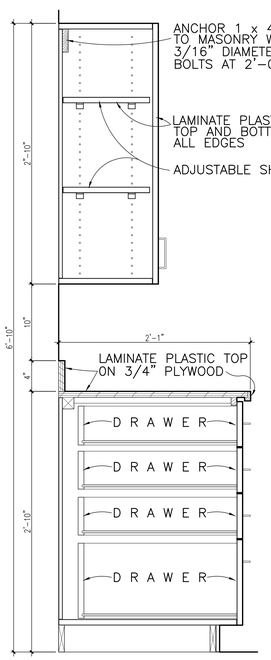
ADDENDUM NO.1

INDEX TO FINISH SCHEDULE

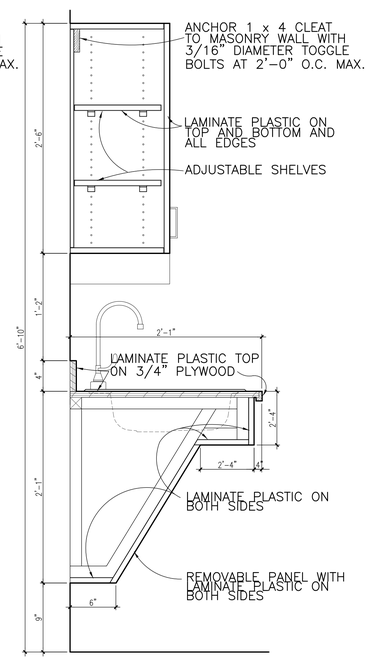
NO.	DESCRIPTION
P1	PAINT: SHERWIN WILLIAMS – REPOSE GRAY SW 7015
P2	ACCENT PAINT: SHERWIN WILLIAMS – POOLHOUSE SW 7603
P3	INTERIOR TRIM & BASE PAINT: SHERWIN WILLIAMS – GRIZZLE GRAY SW 7068
P4	CEILING PAINT: SHERWIN WILLIAMS – EXTRA WHITE SW 7006
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B2	RUBBER BASE: ROPPE, TRADITIONAL WALL BASE, 194 BURNT UMBER – HEIGHT: 4"
H1	HIGH PERFORMANCE COATING – MANUFACTURER'S STANDARD GRAY
V1	LVT: SHAW CONTRACT – COMMINGLE, HEAVY COMM. LVT 4350V, SLATE 50518, 9"X48"
V2	LVT: SHAW CONTRACT – TERRAIN II 20 MIL 0454V, NEST 00774, 6"X48"
L1	LAMINATE CABINET: WILSONART LAMINATE – ITAILIAN SILVER ASH 8217K-16, CASUAL RUSTIC FINISH
L2	LAMINATE CABINET COUNTERTOP: WILSONART LAMINATE – SMOKEY TOPAZ 4589K-07, TEXTURED GLOSS
A1	ACOUSTICAL TILE: ARMSTRONG – GEORGIAN 1752, BEVELED TEGULAR 15/16" SIZE: 2'x2'x5/8"
M1	METAL CEILING PANELS IN DAYROOMS ARE TO HAVE ACOUSTICAL SPRAY: SEE SPECS



EXAM 104
ELEV. A A4.4
SCALE: 3/8"=1'-0"



SECTION 1 A4.4
SCALE: 1-1/2"=1'-0"



SECTION 2 A4.4
SCALE: 1-1/2"=1'-0"

STUDIO8 design
architecture
2722 North Oak Street
Valdosta, Georgia 31602
P.(229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

A HOUSING FACILITY FOR
NEWBERRY COUNTY
DETENTION CENTER
NEWBERRY, SOUTH CAROLINA

STATE OF SOUTH CAROLINA
REGISTERED ARCHITECT
JAMES H. INGRAM
VALDOSTA, GEORGIA
NO. 8990

DRAWN	BB	THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND MAY NOT BE REPRODUCED OR REUSED WITHOUT PERMISSION AND CREDIT.
CHECKED	JI	
JOB #	220006.01	
DATE	12 JULY,2024	© 2025 STUDIO8 design, LLC

REV. 1	CODE COMPLIANCE & FEBRUARY, 2025	REV.	
REV.	CODE COMPLIANCE REV. MAY 30, 2025	REV.	
REV.	BID SET 25 JUNE, 2025	REV.	
REV.		REV.	

FINISH SCHEDULE

A5.1

GENERAL NOTES:

1. THESE GENERAL NOTES PRESENT AND/OR SUMMARIZE KEY PROJECT INFORMATION FOR THE PLAN READER'S CONVENIENCE. SEE ALSO PLANS, DETAILS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
2. ALL REFERENCES TO STANDARDS HEREIN ARE TO MOST RECENT ISSUE IN EFFECT AS OF THE DATE OF THESE DOCUMENTS, UNLESS NOTED OTHERWISE.
3. UNLESS OTHERWISE NOTED, REQUIREMENTS GIVEN FOR ONE LOCATION ALSO APPLY AT OTHER LOCATIONS AT WHICH CONDITIONS ARE SIMILAR. THE REQUIREMENTS GIVEN SHALL BE ADAPTED TO CONDITIONS AT SUCH OTHER LOCATIONS.
4. COORDINATE WORK OF OTHER TRADES SHOWN ON DRAWINGS OR INDICATED IN SPECIFICATIONS WITH STRUCTURAL WORK.
5. CHAMFER OR ROUND ALL EXPOSED CORNERS 3/4" MINIMUM.

CODE / LOADING

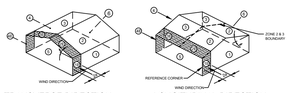
1. BUILDING CODE: 2021 SOUTH CAROLINA BUILDING CODE; ASCE 7-16
   RISK CATEGORY = III
2. GRAVITY LOADS:
   - A. SLAB ON GROUND: DEAD LOAD: 75 PSF; LIVE LOAD: 100 PSF
   - B. MEZZANINE FLOOR: DEAD LOAD: 60 PSF; LIVE LOAD: 100 PSF
   - C. CONTROL ROOM: DEAD LOAD: 100 PSF; LIVE LOAD: 100 PSF
   - D. ROOF: DEAD LOAD: 5 PSF; COLAT: 5 PSF; LIVE LOAD: 20 PSF

   EQUIPMENT LOADING SHALL BE ACTUAL WEIGHT WITH THE TOTAL LOAD EQUAL TO OR GREATER THAN THE MINIMUM LIVE LOADING SPECIFIED.
3. WIND LOADING: V_{ult} = 120 mph; V_{asd} = 93 mph; EXP. CAT. = C

   ENCLOSED BUILDING
   STRENGTH DESIGN (LRFD) LEVEL: UN-FACTORED ULTIMATE WIND LOADS

   WIND LOAD: MWFRS:

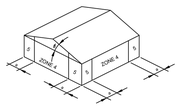
ZONE 1	18 PSF
ZONE 1E	24 PSF
ZONE 2	-26 PSF
ZONE 2E	-37 PSF
ZONE 3	-17 PSF
ZONE 3E	-21 PSF
ZONE 4	-14 PSF
ZONE 4E	-18 PSF
ZONE 5	17 PSF
ZONE 6	-14 PSF



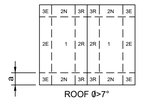
TRANSVERSE DIRECTION

LONGITUDINAL DIRECTION

COMP. & CLADDING:	10 SF	50 SF	100 SF
ZONE 1	+16/-55 PSF	+16/-47 PSF	+16/-43 PSF
ZONE 1'	+16/-32 PSF	+16/-32 PSF	+16/-32 PSF
ZONE 2	+16/-73 PSF	+16/-62 PSF	+16/-57 PSF
ZONE 3	+16/-99 PSF	+16/-78 PSF	+16/-68 PSF
ZONE 4	+32/-35 PSF	+29/-31 PSF	+27/-30 PSF
ZONE 5	+32/-43 PSF	+29/-36 PSF	+27/-33 PSF



WALLS



ROOF ø>7°

BASIC LOAD CASES

NOTE:
1. a = 10 PERCENT OF LEAST HORIZONTAL DIMENSION OR 0.4h, WHICHEVER IS SMALLER, BUT NOT LESS THAN EITHER 4% OF LEAST HORIZ. DIM. OR 3 ft. (0.9m)
2. ø = ANGLE OF PLANE OF ROOF FROM HORIZ., IN DEGREES

4. SEISMIC LOADING: SEISMIC USE GROUP = III; SEISMIC IMP. FACTOR = 1.25
   S_s = 0.324; S_{MS} = 0.499
   S_1 = 0.102; S_{M1} = 0.244
   SITE CLASS = D; S_{DS} = 0.332
   F_a = 1.6; S_{D1} = 0.163
   F_v = 2.4; SDC = C
   R = 8
   CsW = 0.05W

EARTHWORK NOTES

ALL EARTHWORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

A. STRIPPING: STRIP ORGANIC TOPSOILS AND STOCKPILE FOR LATER USE. DO NOT REMOVE TOPSOIL FROM SITE UNTIL FINAL TOPSOIL PLACEMENT IS COMPLETED UNLESS APPROVED BY ARCHITECT. EXACT DEPTHS OF STRIPPING SHALL BE DETERMINED BY THE OWNER'S SOILS ENGINEER IN THE FIELD DURING TIME OF STRIPPING.

B. ALL FOOTINGS ARE TO BE PLACED ON FIRM VIRGIN SOILS OR COMPACTED STRUCTURAL FILL OF APPROXIMATELY UNIFORM THICKNESS. SOME UNDER CUTTING MAY BE NECESSARY TO ACHIEVE UNIFORM SUBGRADE ELEVATION PRIOR TO BEGINNING PLACEMENT OF STRUCTURAL FILL.

C. AFTER REMOVING TOPSOIL, PROOFROLL THE ENTIRE BUILDING AREA AND 5 FEET BEYOND PRIOR TO PLACING STRUCTURAL FILL OR EXCAVATING FOR FOOTINGS. ANY AREAS WHICH EXHIBIT "PUMPING" SHALL BE OVER EXCAVATED AND BACKFILLED WITH APPROVED SAND-CLAY FILL MATERIAL, PLACED PER NOTE E. OWNER'S SOILS ENGINEER SHALL DETERMINE QUANTITY OF MATERIAL TO BE REMOVED.

D. STRUCTURAL FILL MATERIALS SHALL BE FREE OF ORGANICS, DELETERIOUS MATERIAL, DEBRIS AND ROCKS GREATER THAN 6 INCHES. MATERIAL SHOULD HAVE A PLASTICITY INDEX OF LESS THAN 20, A LIQUID LIMIT LESS THAN 40 AND A STANDARD PROCTOR DRY DENSITY OF AT LEAST 100 PCF.

E. SITE SOILS ARE SENSITIVE TO EXCESS MOISTURE. IF CONSTRUCTION IS PERFORMED DURING SEASONAL WET WEATHER CONDITIONS, AREAS OF RUTTING OR PUMPING MAY BE MORE WIDESPREAD. QUANTITIES OF UNDER CUTTING WILL BE GREATER IN PERIODS OF WET WEATHER. EXCESSIVE SUBGRADE EXPOSURE AND POOR CONSTRUCTION PHASE GRADING. THE CONTRACTOR SHALL INSTALL A POSITIVE DRAINAGE SYSTEM AND LIMIT EXPOSURE OF FOUNDATION EXCAVATIONS TO ONE DAY WHEN POSSIBLE AND WHEN RAIN IS FORECAST. CONCRETE SHOULD BE PLACED THE SAME DAY AS EXCAVATION OR PLACE MUDMAT

F. STRUCTURAL FILL SHALL BE PLACED IN 8 INCH MAXIMUM LIFTS AT MOISTURE CONTENTS AT OR ABOVE OPTIMUM AND COMPACTED TO A MINIMUM DENSITY OF 98% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-698.

G. DESIGN SOIL PRESSURE - 2,500 PSF.

H. ALL SLABS ON GRADE SHOULD BE SUPPORTED BY A MINIMUM OF 4 INCHES OF GRANULAR, FREE-DRAINING GRAVEL OR COURSE WASHED SAND MEETING THE CRITERIA OF CONCRETE SAND (ASTM C-33).

CONCRETE NOTES

1. ALL CONCRETE WORK SHALL BE AS FOLLOWS:
   - A. CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318.
   - B. CONCRETE SHALL BE AS FOLLOWS:

LOCATION	MIN. 28-DAY STRENGTH	MIN. CEMENT CONTENT	SLUMP	ENTRAIN. AIR CONTENT	MAX AGG. SIZE
FOOTINGS & FND. WALLS	3000 PSI	5.0 BAG/YD3	4" +/- 1"	4-6%	1 1/2"
SLAB ON GRADE	3000 PSI	5.0 BAG/YD3	4" +/- 1"	0-3%	3/4"
ELEVATED SLAB & FORMED CONC.	4000 PSI	6.0 BAG/YD3	4" +/- 1"	0-3%	3/4"

   FLY ASH PER ASTM C618, TYPE C OR F WILL BE PERMITTED PROVIDED THE FOLLOWING LIMITS ARE MET:
   1. THE QUANTITY OF CEMENT REPLACED SHALL BE NO MORE THAN 15%.
   2. CEMENT SHALL BE REPLACED BY FLY ASH AT THE RATE OF 1.25 TO 1.5 LBS OF FLY ASH TO 1.0 LBS OF CEMENT.
   - C. REINFORCING SHALL CONFORM WITH ASTM A-615, GRADE 60. WELDED WIRE FABRIC (WWF) SHALL BE PER ASTM A-185. EDGE AND END LAPS OF WWF SHALL BE 8" MINIMUM.
   - D. POLYPROPYLENE FIBERS SHALL BE PER ASTM C-1116.
2. SUBMITTALS
   - A. CONCRETE MIX DESIGNS; SHOP DRAWINGS FOR CONCRETE REINFORCING, EMBEDDED ITEMS; ACCESSORIES; AND PRODUCT DATA, ETC. AS OUTLINED IN THE SPECIFICATIONS SHALL BE PROVIDED TO THE ARCHITECT AT LEAST 15 DAYS PRIOR TO THE START OF WORK FOR APPROVAL.
   - B. ALL DATA SHALL BE SUBMITTED "CONTRACTOR APPROVED".
3. NOTIFICATIONS: THE CONTRACTOR SHALL NOTIFY THE ARCHITECT -
   - A. WHEN EXCAVATION TO REQUIRED SUBGRADE ELEVATIONS HAVE BEEN REACHED.
   - B. 24 HOURS PRIOR TO SCHEDULED FILL OR BACKFILL OPERATIONS.
   - C. 48 HOURS PRIOR TO ANY SCHEDULED CONCRETE PLACEMENT FOR INSPECTION OF FORMWORK, REINFORCING AND EMBEDDED ITEMS.
4. REFER TO FINISH SCHEDULE ON ARCHITECT'S DRAWINGS FOR LOCATION OF RECESSED FLOORS.
5. CONTRACTOR SHALL COORDINATE DEPTH OF INTERIOR AND EXTERIOR FOOTINGS TO PERMIT ALL PLUMBING - ROOF DRAINS, SANITARY DRAINS AND PRESSURE LINES TO PASS OVER FOOTINGS. STEPPED FOOTINGS REQUIRED TO ACCOMMODATE THIS REQUIREMENT SHALL BE SHOWN ON SHOP DRAWINGS AND SUBMITTED FOR REVIEW. THE EXCEPTION TO THIS RULE SHALL BE WHEN THE INVERT OF GRAVITY FLOW PLUMBING IS GREATER THAN 1'-4" BELOW THE BOTTOM OF THE PROPOSED FOOTING. IN THIS CASE, PLUMBING MAY BE INSTALLED UNDER THE PROPOSED FOOTING, BACKFILLED AND TESTED FOR COMPACTION. IN NO CASE IS TUNNELING UNDER PREVIOUSLY CONSTRUCTED FOOTINGS TO BE PERMITTED.
6. REINFORCING COVER: 3" BELOW GRADE, 2" OTHER.

MASONRY WALL REINFORCING

1. GENERAL
   - A. THE FOLLOWING REINFORCING IS REQUIRED FOR ALL MASONRY WALLS.
   - B. PROVIDE CONTROL JOINT PER CONTRACT DOCUMENTS AT SPACING NOT EXCEEDING 20'-0" FOR ALL CMU WALLS. COLUMN IN WALL WILL CREATE A CONTROL JOINT.
2. VERTICAL REINFORCING
   - A. PROVIDE GROUT FILLED CELL WITH 1 - #4 REBAR CONTINUOUS FROM FOOTING TO BOND BEAM AT TOP OF WALL. LAP #4 BAR WITH #4 FOOTING DOWEL AND EXTEND 4" MINIMUM INTO BOND BEAM. BREAK-OUT BOTTOM OF BOND BEAM AT FILLED CELL LOCATIONS AND POUR TOP FOUR COURSES WITH BOND BEAM. PROVIDE AT THE FOLLOWING LOCATIONS:
     - a. AT ALL WALL CORNERS.
     - b. AT ENDS OF ALL WALLS AND EACH SIDE OF EXPANSION JOINT.
     - c. AT ALL DOOR AND WINDOW JAMBS.
     - d. AT 48" O.C. MAXIMUM ALONG ENTIRE LENGTH OF WALL, UNLESS DESIGN REQUIRES A LARGER BAR SIZE OR CLOSER SPACING. PLAN WILL NOTE WALLS REQUIRING BARS AND SPACINGS OTHER THAN #4'S AT 48" O.C..
   - B. VERTICAL BAR SPLICES SHALL HAVE A MINIMUM LAP OF 30 BAR DIAMETERS OR 24" MIN.
   - C. VERTICAL FILLED CELLS SHALL BE FILLED WITH GROUT IN 4'0" MAX. LIFTS.
3. HORIZONTAL REINFORCEMENT
   - A. PROVIDE 9 GA. LADDER TYPE MASONRY REINFORCING AT 16" O.C. ALONG WALL HEIGHT, TYPICAL IN ALL WALLS. PROVIDE AT 8" O.C. FOR FOUNDATION WALLS AND PARAPETS. PROVIDE 5/8" COVER AT EXTERIOR SIDE(S) OF WALLS, 1/2" MIN. ELSEWHERE. LAP REINFORCING 6" MINIMUM AND PROVIDE CONTINUITY AT CORNERS USING PRE-FABRICATED "L" AND "T" SECTIONS.
   - B. PROVIDE GROUT FILLED BOND BEAM WITH 2 - #5 REBARS CONTINUOUS WHERE WALLS ARE STRUCTURALLY CONNECTED TO STRUCTURE AT THE TOPS OF ALL WALLS.
   - C. PROVIDE GROUT FILLED COURSE WITH 1 - #4 REBAR AT DOOR AND WINDOW HEADS, AND AT ALL WINDOW SILLS. EXTEND 2'-0" MINIMUM BEYOND OPENING.
4. WALL BRACING
   - A. ALL INTERIOR & EXTERIOR MASONRY WALLS, (FULL HEIGHT AND PARTIAL HEIGHT) SHALL BE BRACED TO THE STRUCTURAL STEEL ROOF FRAMING AT 8'-0" O.C. MAXIMUM. AN INTERSECTING PARTITION OR BEARING WALL IS CONSIDERED A BRACE POINT. AN CONTINUOUS STEEL CHANNEL INDICATED ON DOCUMENTS OR DESIGNED BY THE CONTRACTOR FOR MAXIMUM DEFLECTION OF SPAN/600 IS CONSIDERED ADEQUATE FOR BRACING.
5. CONTROL JOINTS:
   - A. CONTROL JOINTS SHALL BE PROVIDED IN ALL CONCRETE MASONRY CONSTRUCTION AT LOCATIONS INDICATED ON THE ARCHITECTURAL DRAWINGS BUT AT SPACING NOT EXCEEDING 20'-0" O.C.
   - B. HORIZONTAL WALL REINFORCING SHALL BE DIS-CONTINUOUS THRU CONTROL JOINT.
   - C. SEE ARCHITECTURAL DRAWINGS FOR SEALANT REQUIREMENTS AT CONTROL JOINTS.
6. ALL SECURITY RATED CMU WALLS SHALL HAVE A MINIMUM OF (1) #4 VERT. IN EACH CELL. A KNOCK-OUT WEB BOND BEAM AT 8'-0" O.C. FOR FULL HEIGHT OF WALL (CUT REINF. AT WALL C.J.'S), HAVE 9 GAGE LADDER WIRE IN EVERY OTHER MORTAR JOINT, AND BE SOLID FILLED WITH GROUT UNLESS OTHERWISE NOTED ON THE DESIGN DOCUMENTS.

LIGHT GAGE STEEL

1. FURNISH AND INSTALL ALL LIGHT GAUGE FRAMING IN ACCORDANCE WITH SPECIFICATIONS AND AS NOTED HEREIN, INCLUDING HEADERS, OUTRIGGERS, SUPPLEMENTAL RAFTERS STUDS AND INCIDENTAL FRAMING FOR A COMPLETE ASSEMBLY.
2. THE FOLLOWING DOCUMENTS OF THE ISSUE IN EFFECT ON DATE OF MATERIAL PROCUREMENT, REFERRED TO THEREAFTER BY BASIC DESIGNATION ONLY FORM A PART OF THIS SPECIFICATION TO THE EXTENT INDICATED BY REFERENCE THERETO.

MEMBERS OF A MATERIAL 16 GAGE AND THINNER;

A. AMERICAN IRON AND STEEL INDUSTRIES:
   - A.a. SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.

B. AMERICAN SOCIETY OF TESTING MATERIALS:
   - B.a. ASTM A446:"SPECIFICATION FOR STEEL SHEET, ZINC COATED (GALVANIZED BY THE HOT-DIP PROCESS, PHYSICAL (STRUCTURAL) QUALITY."
   - B.b. GRADE A, FY = 33 KSI: 18 GAUGE AND LIGHTER
   - B.c. GALVANIZING: C60 COATING CLASS
   - B.d. AMERICAN WELDING SOCIETY:
   - B.e. AWS D1.0 "CODE FOR WELDING IN BUILDING CONSTRUCTION"
   - B.f. ANSI Z49.1 "SAFETY IN WELDING AND CUTTING"

PRE-ENGINEERED METAL BUILDING DESIGN CRITERIA

1. ALL COLUMNS SHALL BE ANALYZED AND DESIGNED AS HAVING PINNED BASES, U.N.O.
2. VERTICAL X-BRACING IS ALLOWED. PORTAL FRAMES MAY BE USED IN LIEU OF X-BRACING.
3. ENDWALL FRAMES INDICATED TO BE EXPANDABLE SHALL BE DESIGNED AS STANDARD RIGID FRAMES.
4. DESIGN LOADS SHALL BE AS INDICATED IN CODE/LOADING NOTES.
5. BUILDING TYPE: ENCLOSED
6. MAXIMUM FRAME DRIFT DUE TO LATERIAL LOADS SHALL NOT EXCEED THE FOLLOWING:
   - H/300 AT MASONRY STRUCTURES
   - H/180 AT STRUCTURES WHERE MASONRY DOES NOT EXTEND ABOVE ONE/FOURTH (1/4) OF THE BUILDING EAVE HEIGHT. (BASED ON 10 YEAR MEAN RECURRENCE INTERVAL)
7. MAXIMUM LATERAL LOAD DEFLECTION OF WALL GIRTS AND COLUMN SHAFTS SHALL NOT EXCEED THE FOLLOWING:

   EXTERIOR WALL = L/240 (WALLS NOT SUPPORTING MASONRY VENEER)

   EXTERIOR WALL = L/600 (WALLS SUPPORTING MASONRY VENEER)

   (10 YEAR MEAN RECURRENCE INTERVAL)
8. ROOF PURLINS MUST BE CAPABLE OF RESISTING NET WIND PRESSURES (IN OR OUT) ASSUMING INTERIOR FLANGE UNBRACED EXCEPT WHERE FLANGE BRACING IS PROVIDED.
9. THE METAL BUILDING MANUFACTURER WILL BE RESPONSIBLE FOR COMPLETE DESIGN OF THE BUILDING STRUCTURAL FRAME (INCLUDING LATERAL LOADS DOWN TO THE FOUNDATION. COMPLETE DESIGN REACTIONS SHALL BE FURNISHED TO THE FOUNDATION DESIGN ENGINEER.
10. ALL METAL BUILDING SHOP DRAWINGS AND ERECTION DRAWING SHALL BE SEALED AND SIGNED BY THE MANUFACTURER'S SOUTH CAROLINA REGISTERED ENGINEER IN RESPONSIBLE CHARGE.
11. DEFLECTION LIMITS FOR ROOF MEMBERS SHALL BE AS FOLLOWS:

    PURLINS: DEAD LOAD L/480 LIVE LOAD L/360 TOTAL L/240
    FRAMES: DEAD LOAD L/360 LIVE LOAD L/360 TOTAL L/240
12. EXCEPT AS OTHERWISE APPROVED BY ENGINEER, STRUCTURAL CLEARANCES SHALL BE MAINTAINED AS CURRENTLY INDICATED IN THE CONTRACT DOCUMENTS.
13. RIGID FRAME COLUMNS SHALL HAVE A BASE PLATE THICKNESS OF AT LEAST ½ INCH.
14. ALL DEVIATIONS FROM THE CONTRACT DOCUMENTS (REQUESTED FOR THE CONVENIENCE OF THE PRE-ENGINEERED BUILDING MANUFACTURER) ARE SUBJECT TO APPROVAL BY THE ENGINEER OF RECORD. ALL DEVIATIONS SHALL BE EXPRESSLY LISTED AND DEFINED IN THE SHOP DRAWING SUBMITTAL. ENGINEER IS NOT RESPONSIBLE FOR DISCOVERY OF DEVIATIONS NOT LISTED, AND APPROVAL OF UNLISTED DEVIATIONS SHALL NOT BE IMPLIED.
15. A QUALIFIED REPRESENTATIVE OF THE METAL BUILDING SUPPLIERS CONSTRUCTION SERVICES DEPARTMENT SHALL MAKE AN ON-SITE REVIEW OF THE ERECTED BUILDING. REVIEWER SHALL NOTIFY THE GENERAL CONTRACTOR AND ENGINEER OF ANY AND ALL NOTED DISCREPANCIES FROM THE ERECTION AND DESIGN DRAWINGS.
16. CONTRACTOR/ERECTOR SHALL CORRECT ALL DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER OF RECORD.
17. UPON COMPLETION OF SERVICES THE REVIEWER SHALL SIGN AND NOTARIZE THE FOLLOWING STATEMENT UNDER THE METAL BUILDING SUPPLIERS LETTERHEAD.

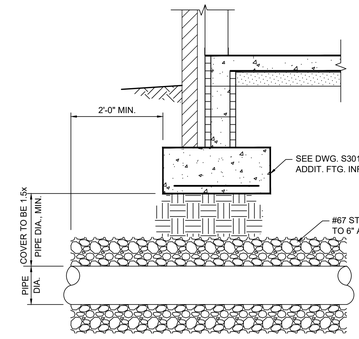
    TO THE BEST OF MY KNOWLEDGE AND BELIEF THE ABOVE DESCRIBED STRUCTURE HAS BEEN ERECTED IN SUBSTANTIAL CONFORMANCE WITH THE SUPPLIER'S ERECTION DRAWINGS AND DETAILS.

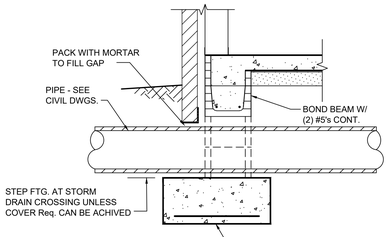
ERECTION, BRACING, AND FORMWORK

1. THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, FORMWORK, SHORING, AND TEMPORARY SUPPORTS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
2. ANCHOR BOLTS AND FOUNDATIONS HAVE NOT BEEN DESIGNED FOR ANY CONDITION OF LOADING OTHER THAN THAT OF THE COMPLETED STRUCTURE. VERIFICATION OF ADEQUACY OF ANCHOR BOLT AND FOUNDATIONS TO RESIST ERECTION INDUCED FORCES IS SOLELY THE RESPONSIBILITY OF THE STEEL ERECTOR AND CONTRACTOR.
3. UNLESS OTHERWISE NOTED STEEL FRAMEWORKS FOR THIS PROJECT ARE CLASSIFIED PER AISC CODE OF STANDARD PRACTICE AS A "NON-SELF-SUPPORTING STEEL FRAME". PROVIDE TEMPORARY SUPPORT SYSTEMS NECESSARY TO SECURE ANY ELEMENT OR ELEMENTS OF THE STEEL FRAMING UNTIL ALL PERMANENT STEEL BRACIING, DECKING AND/OR MASONRY WALLS ARE IN-PLACE AND CONNECTED TO THE STEEL FRAMEWORKS.

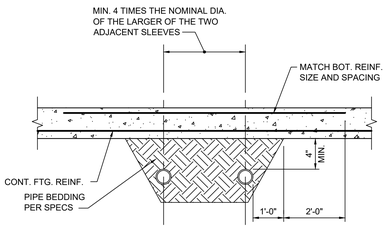
STRUCTURAL STEEL NOTES

1. INSTALLATION OF STRUCTURAL STEEL, AND METAL DECK SHALL BE IN ACCORDANCE WITH DIVISION 5 OF THE SPECIFICATIONS.
2. STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS", STEEL CONSTRUCTION MANUAL, 14TH EDITION, AISC 360-10
3. STRUCTURAL AND MISCELLANEOUS STEEL BEAMS SHALL CONFORM TO ASTM A992 WITH FY=50 KSI. ANGLES AND PLATES SHALL CONFORM TO ASTM A-36. PIPE SHALL CONFORM TO ASTM A-501 WITH FY=36 KSI OR ASTM A-53, TYPES E OR S WITH FY=35 KSI. TUBE STEEL SHALL CONFORM TO ASTM A500 GRADE B WITH FY=46 KSI. BOLTED CONNECTIONS SHALL CONFORM TO ASTM A-325-N, UNLESS OTHERWISE NOTED ON THE PLANS. ANCHOR BOLTS SHALL CONFORM TO ASTM F 1554 36 KSI
4. MINIMUM SIZE WELD SHALL BE 3/16" FILLET WITH E70 ELECTRODES.
5. MINIMUM MATERIAL THICKNESS SHALL NOT BE LESS THAN 3/8" FOR MISCELLANEOUS PLATES.
6. INSTALL COLUMNS PLUMB BY USING STEEL WEDGES AT EDGES OF BASE PLATE TO PROVIDE FIRM BEARING. GROUT FOR SETTING PLATES SHALL BE NON-SHRINK, NON-METALLIC. WHEN GROUT HAS GAINED SUFFICIENT STRENGTH TO SUPPORT LOAD, ALL WEDGES AND SHIMS SHALL BE REMOVED AND RESULTING VOIDS FILLED WITH GROUT.
7. STEEL DECK SHALL BE MANUFACTURED AND ERECTED IN ACCORDANCE WITH THE STEEL DECK INSTITUTE. ALL DECKING SHALL BE GALVANIZED, UNLESS NOTED OTHERWISE ON THE PLANS.
8. EXACT LOCATION AND SIZES OF PENETRATIONS THROUGH ROOF SHALL BE COORDINATED WITH MECHANICAL DRAWINGS. FRAMING FOR MECHANICAL EQUIPMENT SHALL BE AS DETAILED ON THE DRAWINGS AND SHALL BE SUBMITTED FOR REVIEW. ALL OPENINGS GREATER THAN 12" IN DIAMETER OR 12" SQUARE SHALL BE REINFORCED BY ANGLE FRAMING.
9. ALL HVAC EQUIPMENT (FANS, ETC.) SHALL BE SUPPORTED BY THE STRUCTURAL STEEL FRAMING AND/OR ANGLE FRAMING. NO EQUIPMENT SHALL BE SUPPORTED DIRECTLY BY DECKING.
10. SUBMITTALS
    - A. SHOP DRAWINGS AND MATERIALS SUBMITTED SHALL BE REQUIRED FOR STRUCTURAL AND MISCELLANEOUS STEEL, OPEN WEB JOISTS AND STEEL ROOF DECK; ACCESSORIES; AND PRODUCT DATA, ETC., AS OUTLINED IN THE SPECIFICATIONS.
    - B. ALL DATA SHALL BE SUBMITTED "CONTRACTOR APPROVED".
11. NOTIFICATIONS: THE CONTRACTOR SHALL NOTIFY THE ARCHITECT 48 HOURS PRIOR TO SCHEDULED STEEL AND ROOF DECK ERECTION.
12. INSTALL LOAD INDICATOR WASHERS OR OTHER TENSION CONTROL BOLTING METHODS AT BOLTED FLANGE PLATE MOMENT CONNECTIONS FOR VISUAL VERIFICATION OF SLIP CRITICAL (SC) BOLT INSTALLATION. CONTACT SURFACES SHALL BE PROTECTED FROM PAINT OR PRIMER. INSTALLATION SHALL BE IN ACCORDANCE WITH AISC SPECIFICATIONS.
13. ALL STEEL THAT IS PERMANENTLY EXPOSED TO VIEW UPON COMPLETION OF CONSTRUCTION SHALL HAVE ALL BLEMISHES/ DEFECTS GROUND SMOOTH FOR A UNIFORM/ CLEAN PAINTED FINISH.

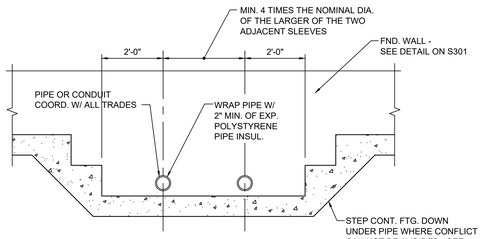




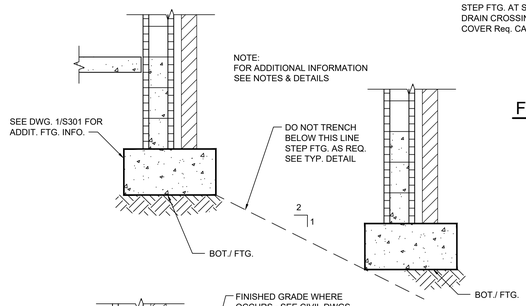
FOOTING AT STORM DRAIN CROSSING
NO SCALE

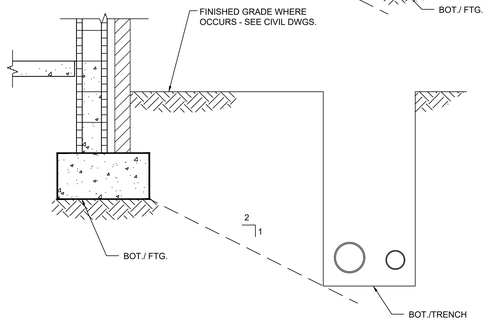


NOTE:
IF 4" MIN. CLR. IS NOT AVAILABLE STEP FOOTING DOWN UNDER PIPE OR CONDUIT PER TYP. FTG/ UTILITY INTERSECTION DETAIL ON THIS SHEET. WHERE COLUMN FOOTING CONFLICTS WITH UTLITIES RE-LOCATE UTILITY OR LOWER FOOTING



TYP. FTG./ UTILITY INTERSECTION
NO SCALE





FOOTING DETAIL AT SLOPE/ PARALLEL TRENCH CONDITION
NO SCALE

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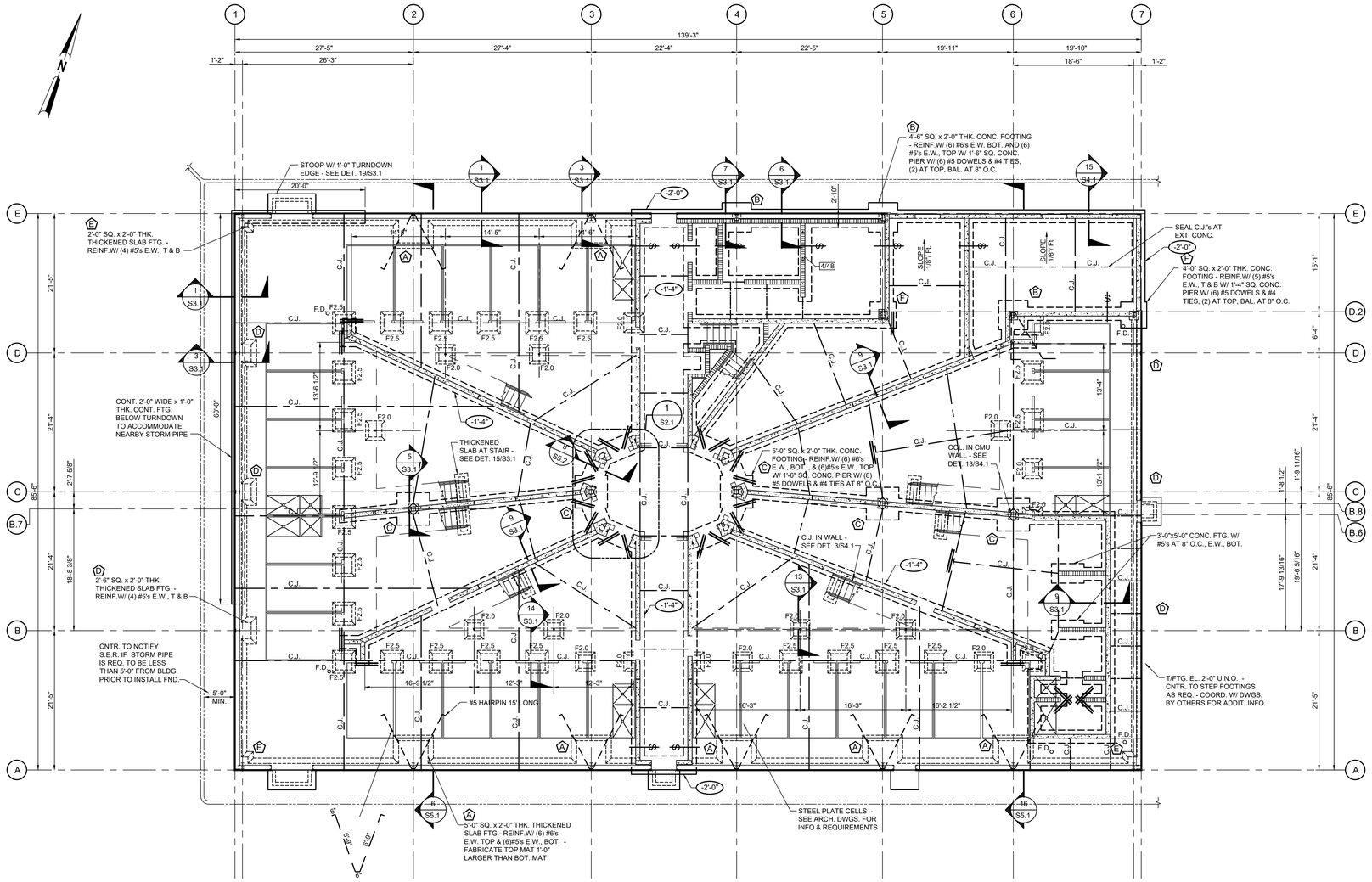
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SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 20909 RANDALL SHANE CREWS 7-15-24

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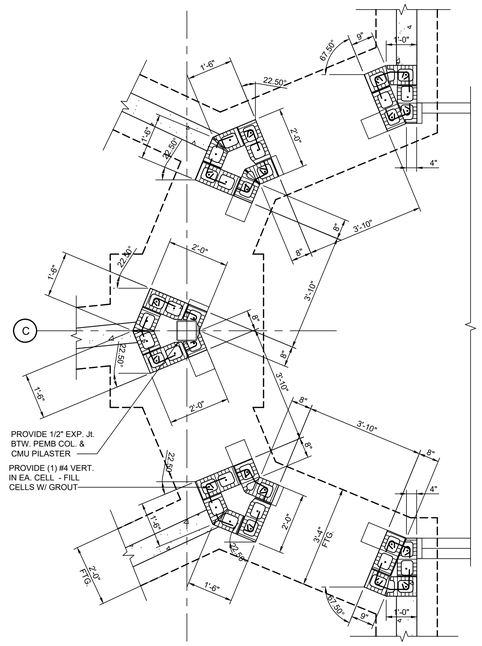
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REV.		REV.	

S1.0



1 S2.1 PARTIAL ENLARGED CONTROL ROOM PLAN

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



LEGEND:

C.J. - CONTROL OR CONSTRUCTION JOINT (SEE DET. 9/S3.1)

E.J. - EXPANSION JOINT (SEE DET. 10/S3.1)

TYP. U.N.O. - TYPICAL UNLESS NOTED OTHERWISE

= - 2-#4's x 4'-0" LG. 1 1/2" CLEAR

4/48 - CMU VERTICAL REINFORCING (#4's AT 48" O.C., U.N.O.) ALSO SEE MASONRY REINF. NOTES AND DETAILS FOR INFO.

(A) - COLUMN FOOTING LOAD TAG. SEE FOUNDATION LOAD SCHEDULE ON THIS DRAWING.

- T/FTG. EL. RELATIVE TO F.F. EL.

- SECURITY AND DAY ROOM WALLS #4's AT 8" O.C. IN GROUT FILLED CELLS TO EL. +5'-4" MIN. AFF - #4's AT 24" O.C. IN GROUT FILLED CELLS TO TOP OF WALL

F2.0 - 2'-0" SQ. x 1'-0" THK. THICKENED SLAB FTG. REINF. W/(3) #4's E.W., BOT.

F2.5 - 2'-6" SQ. x 1'-0" THK. THICKENED SLAB FTG. REINF. W/ (4) #4's E.W., BOT.

FOUNDATION LOAD SCHEDULE				
TAG	P_{DOWN}	P_{UP}	P_{HORIZ}	MOMENT
A	14 k	-10 k	9.0 k	0 ft-k
B	14 k	-10 k	9.0 k	0 ft-k
C	31 k	-16 k	2.0 k	0 ft-k
D	10 k	-7 k	2.0 k	0 ft-k
E	6 k	-5 k	2.0 k	0 ft-k
F	6 k	-5 k	2.0 k	0 ft-k

NOTE:
CONTRACTOR SHALL VERIFY FINAL BUILDING REACTIONS NOTED IN SCHEDULE ABOVE WITH CONTRACTOR'S METAL BUILDING MANUFACTURER FINAL BUILDING REACTIONS. SUBMIT FINAL METAL BUILDING SHOP DRAWINGS AND ANCHOR BOLT PLAN TO ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO BEGINNING FOUNDATION CONSTRUCTION OR FABRICATION OF REINF.

PLAN NOTES:

1. SEE DRAWING S1.0 FOR GENERAL NOTES.
2. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS.
3. COORDINATED DIMENSION SHOWN WITH ARCHITECTURAL DRAWINGS. IF DIMENSION DISCREPANCIES ARE DISCOVERED, ARCHITECTURAL DIMENSIONS SHALL GOVERN.

REF. ELEV. +0'-0" = F.F. EL. 515.5

FOUNDATION & SLAB PLAN

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

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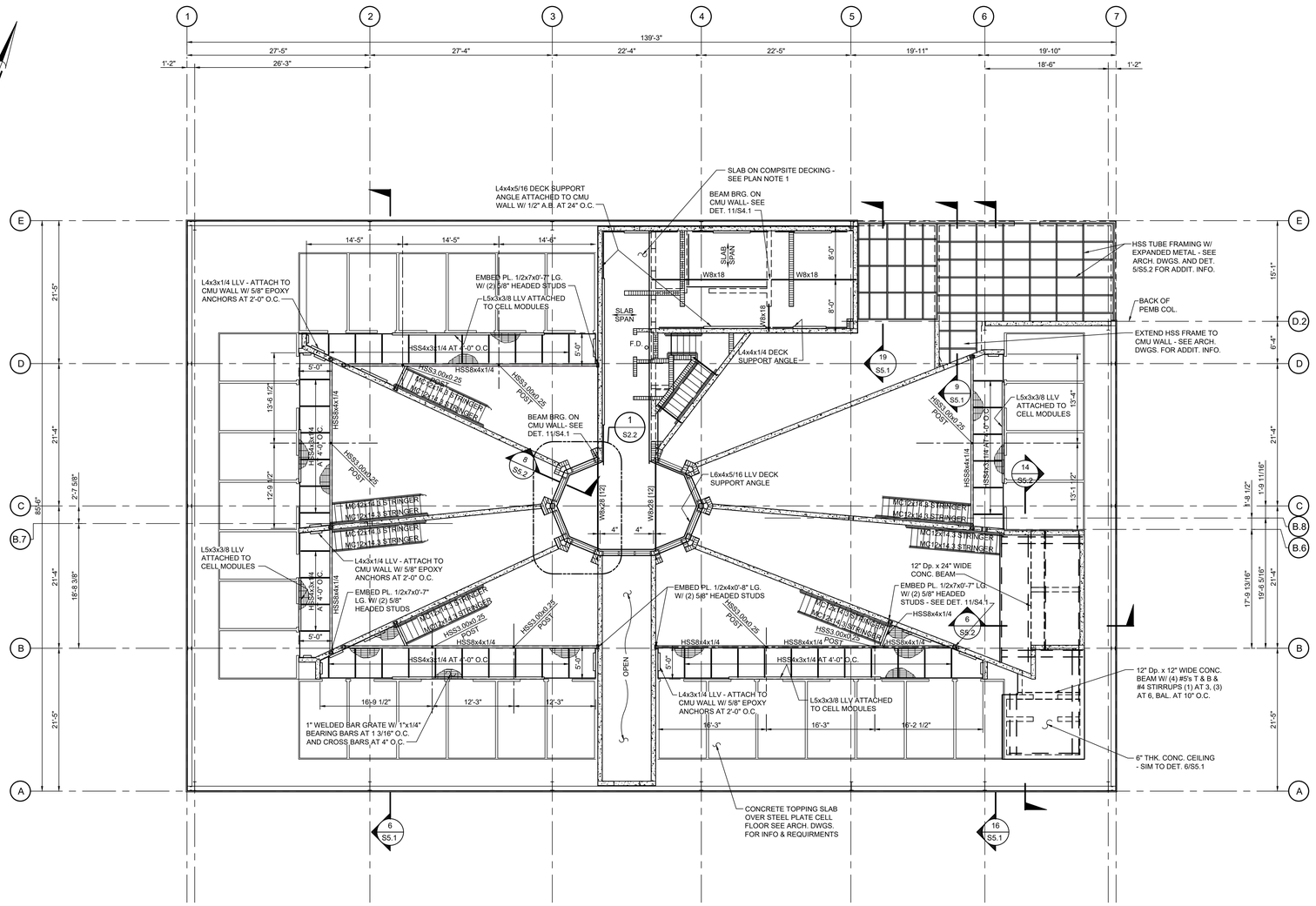
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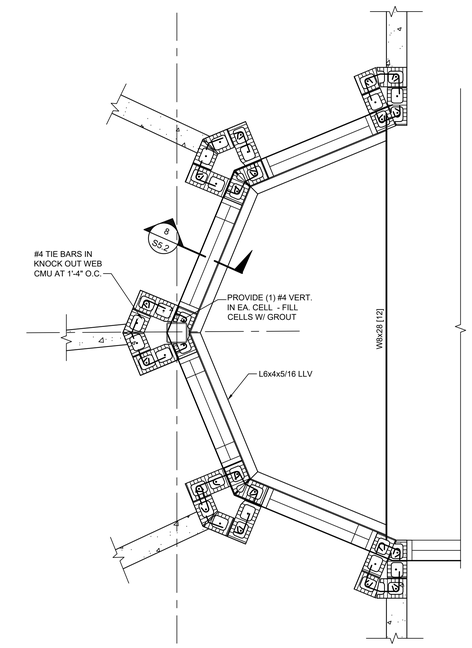
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REV.		REV.	

FOUNDATION & SLAB PLAN

S2.1





1 S2.2 PARTIAL ENLARGED CONTROL ROOM PLAN
SCALE: 1/2" = 1'-0"

PLAN NOTE:
1. 3" Dp. x 20 GA. EMBOSSED & INDENTED COMPOSITE MTL. DECK (VULCRAFT 3.0 VL 20 OR EQ.) W/ 4" CONC. TOPPING (TOTAL "t" = 7") - REINF. W/ 6x6 W2.1xW2.1 WWF

LEGEND:

W-BEAM [# #] = 1/2"x 4" HEADED STUDS

SECOND FLOOR FRAMING PLAN
SCALE: 1/8" = 1'-0"

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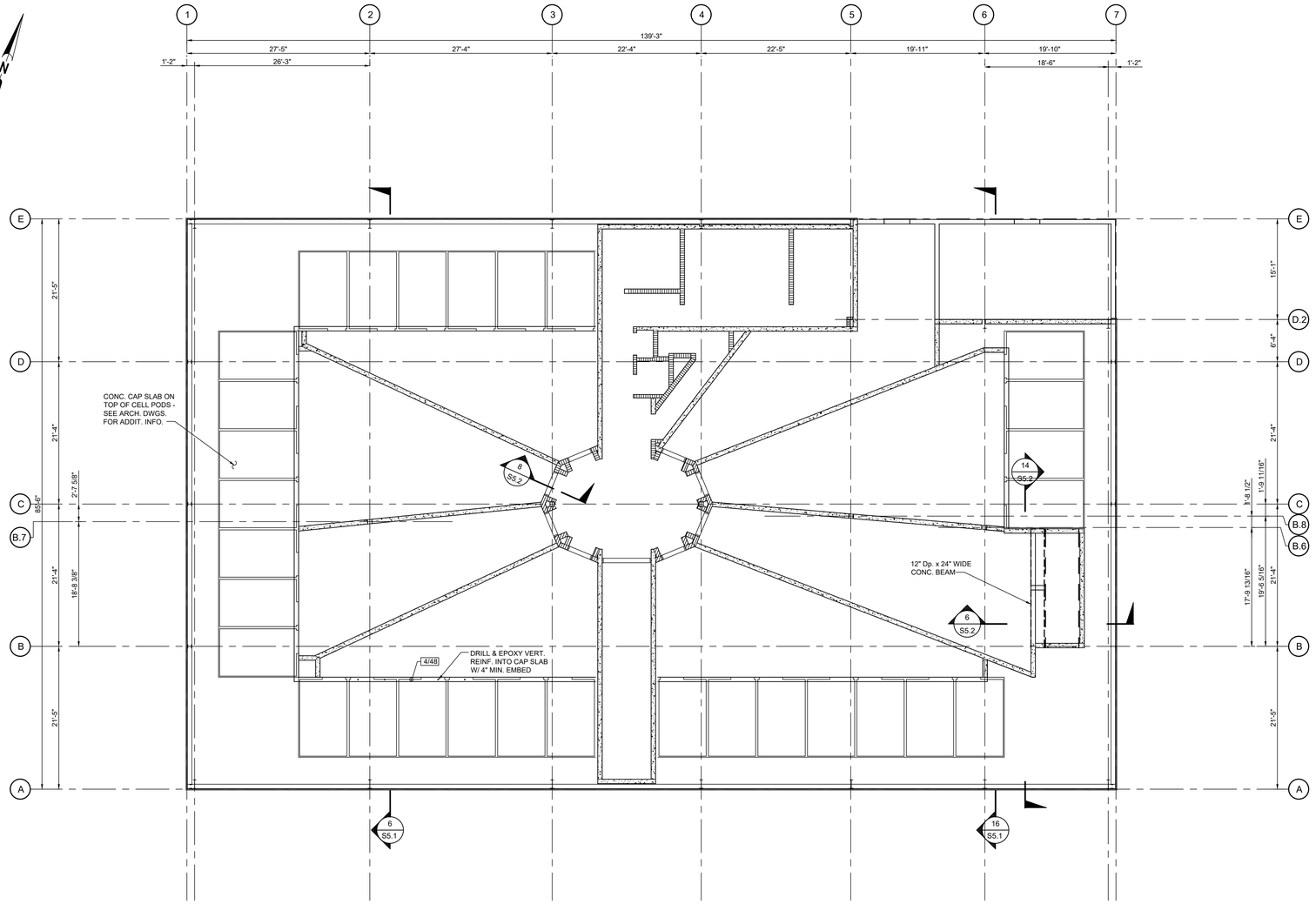
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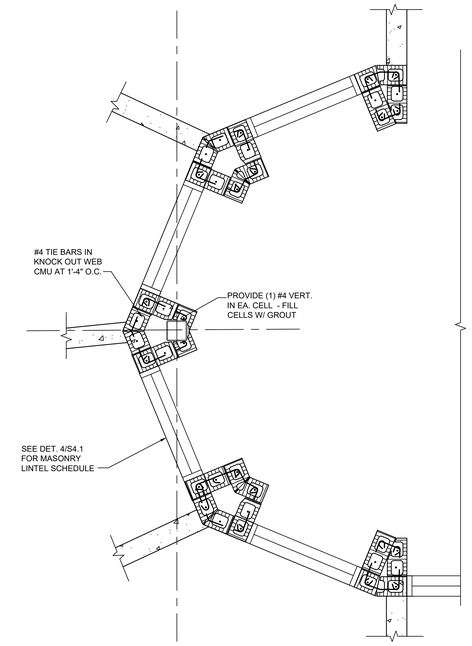
SECOND FLOOR FRAMING PLAN

S2.2



TOP OF CELL/ CONTROL ROOM PLAN

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



1 S2.2 PARTIAL ENLARGED CONTROL ROOM PLAN

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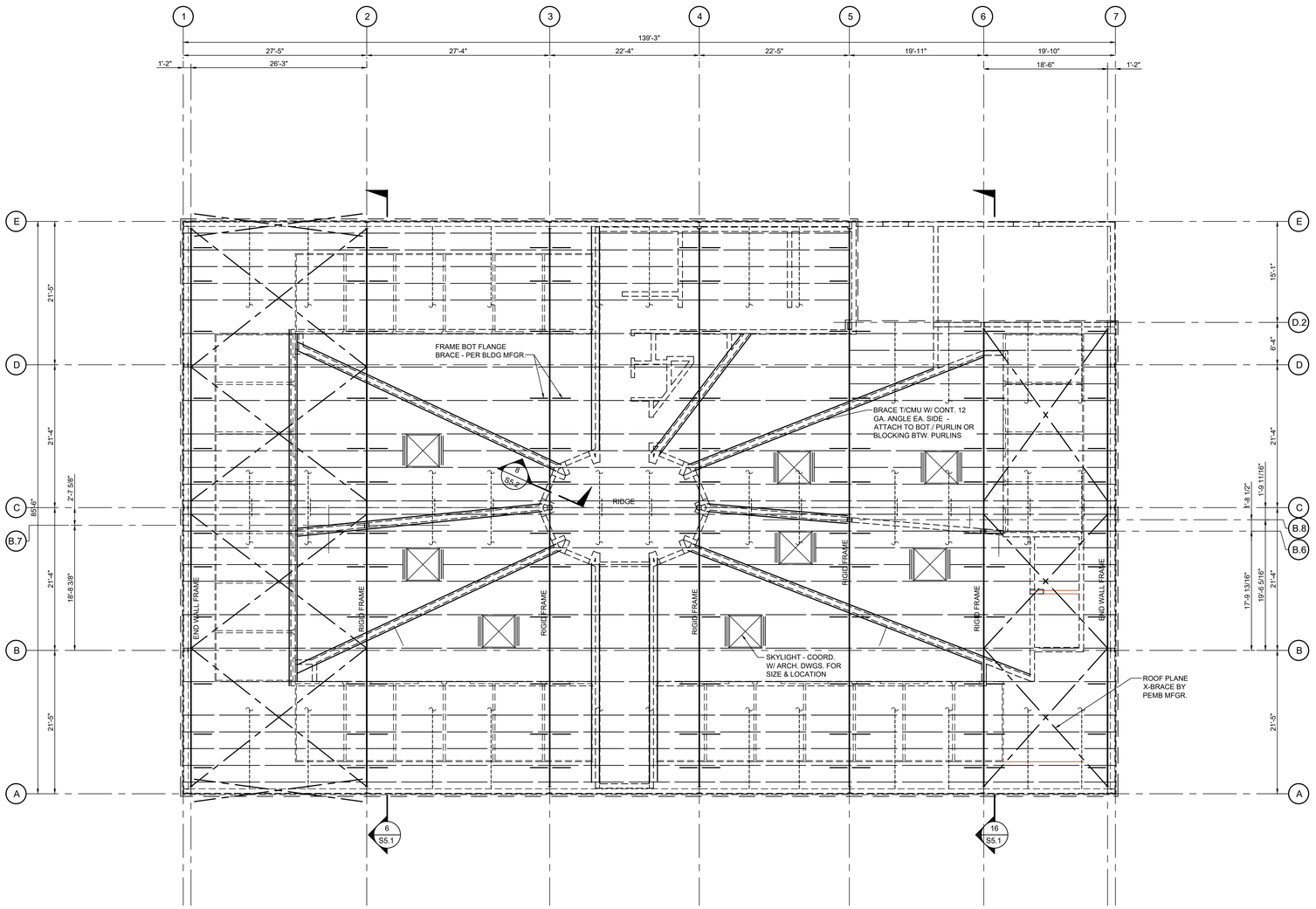
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TOP OF CELL/CONTROL ROOM FRAMING PLAN

S2.3



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

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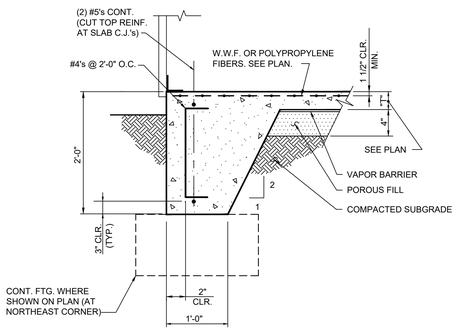
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7-15-24

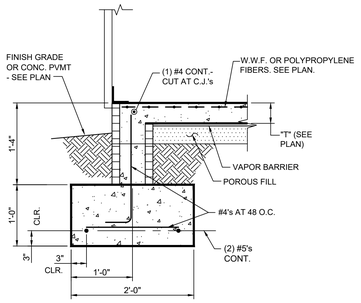
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ROOF FRAMING PLAN

S2.4



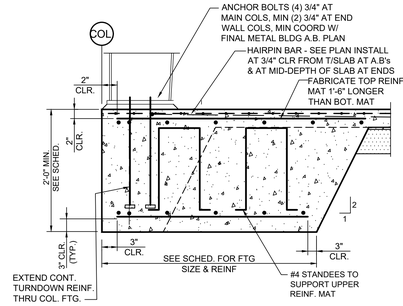


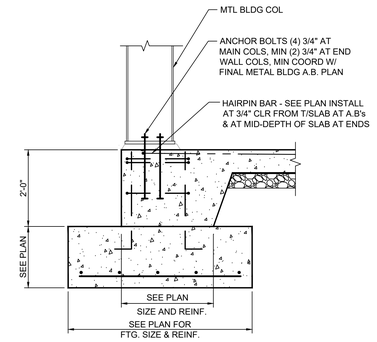
ALTERNATE

1 S3.1

SECTION

NO SCALE



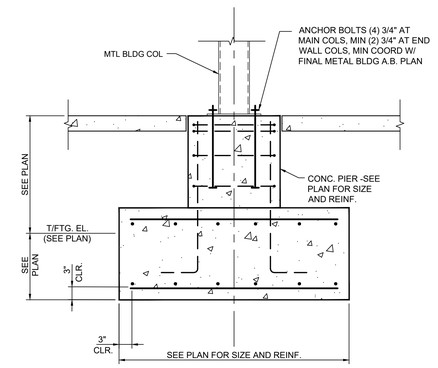


ALTERNATE

3 S3.1

SECTION

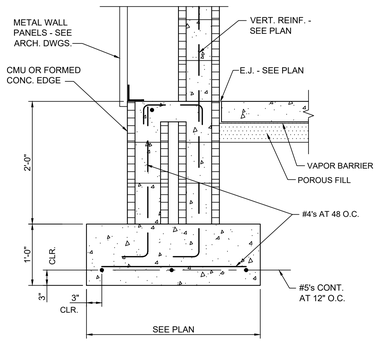
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5 S3.1

SECTION

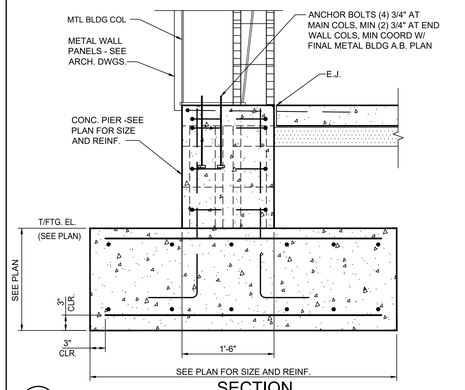
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6 S3.1

SECTION

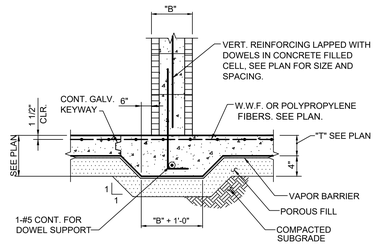
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SECTION

NO SCALE

7 S3.1

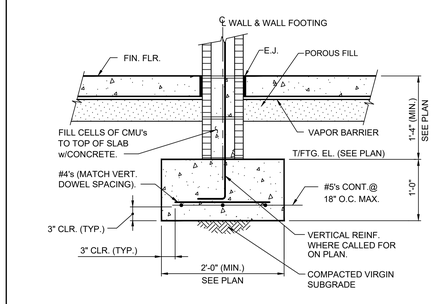


CONTRACTOR MAY DRILL & EPOXY DOWELS INTO PREVIOUSLY PLACED CONCRETE SLAB IF DESIRED. INSTALL PER EPOXY MFGR. SPECIFICATIONS.

SECTION

NO SCALE

8 S3.1

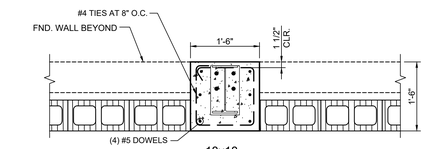


NOTE:
1. DEPTH TO TOP OF FOOTING SHALL BE COORDINATED TO PERMIT PLUMBING TO PASS OVER FOOTING.
2. CONTRACTOR MAY USE 8" C.I.P. STEM WALL IN LIEU OF 8" CMU STEM WALL. PROVIDE #4's AT 12" O.C. HORIZ. - DOWELS TO MATCH VERT. REINF. ABOVE

DETAIL

NO SCALE

9 S3.1

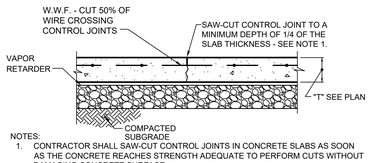


18x18

PEDESTAL REINF. DETAILS

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

10 S3.1



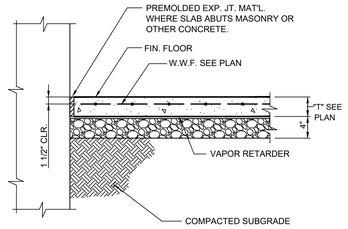
NOTES:
1. CONTRACTOR SHALL SAW-CUT CONTROL JOINTS IN CONCRETE SLABS AS SOON AS THE CONCRETE REACHES STRENGTH ADEQUATE TO PERFORM CUTS WITHOUT DAMAGING CONCRETE SURFACE.
2. A CONSTRUCTION JOINT RESULTS WHEN CONCRETE IS PLACED ON ONLY ONE SIDE OF THE DESIGNATED CONTROL JOINT TO END A DAY'S "PLACEMENT" OR TO ACCOMMODATE A DELAY IN PLACING SEQUENCE. AT CONSTRUCTION JOINTS, CONTRACTOR SHALL USE A CONTINUOUS 24 GAUGE GALVANIZED STEEL TONGUE AND GROOVE JOINT FORM. THE CONCRETE SHALL BE FINISHED TO THE TOP OF THE FORM. DO NOT EDGE/ TOOL AGAINST THE FORM. THE KEYWAY SHALL BE SUPPORTED BY 1 1/8" X 1/8" THICK RIBBED STEEL STAKES AT 2'-0" O.C. WITH ADDITIONAL BRACING AS REQUIRED TO HOLD THE JOINT STRAIGHT AND LEVEL. THE KEYWAY SHALL BE REMOVED AND THE PENETRATIONS THRU THE VAPOR BARRIER SHALL BE PATCHED WITH VAPOR BARRIER MANUFACTURER APPROVED TAPE/ SEALANT PRIOR TO PROCEEDING WITH THE SUBSEQUENT ADJACENT SLAB CONCRETE PLACEMENT.

SLABS LESS THAN 6" THICK

SECTION

NO SCALE

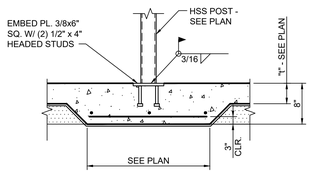
11 S3.1



SECTION

NO SCALE

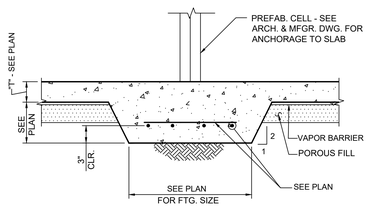
12 S3.1



SECTION

NO SCALE

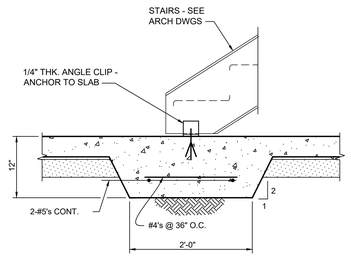
13 S3.1



SECTION

NO SCALE

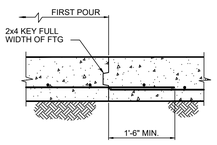
14 S3.1



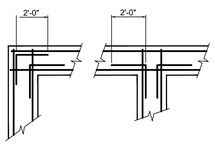
SECTION

NO SCALE

15 S3.1

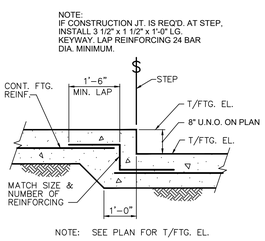


FOOTING C.J. DETAIL



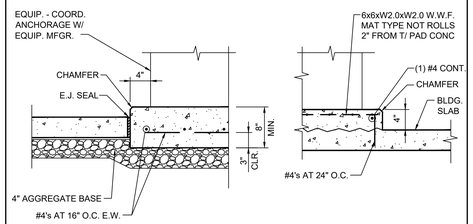
NOTE:
CORNER REINFORCING TO MATCH SIZE AND SPACING OF FOOTING REINFORCING.

FOOTING REINF. DETAIL



NOTE: SEE PLAN FOR T/FTG. EL.

FOOTING STEP DETAIL



IN YARD

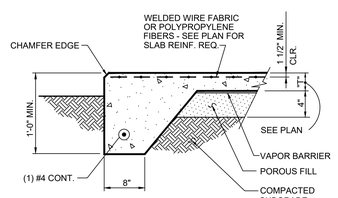
ON BLDG. SLAB

PAD WEIGHTS SHALL COMPLY w/MFGR. RECOMMENDATIONS, BUT SHALL NOT BE LESS THAN: RECIPROCATING EQUIP. - 4 TIMES WEIGHT OF EQUIP. CENTRIFUGAL EQUIP. - 3 TIMES WEIGHT OF EQUIP. VERIFY w/MECHANICAL CONTRACTOR.

DETAIL

NO SCALE

18 S3.1

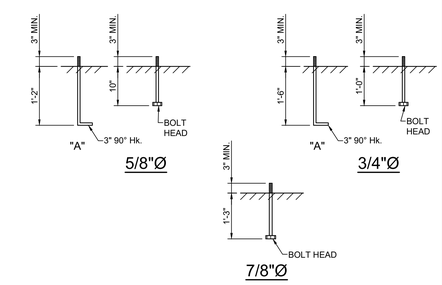


(STOOP/ LANDING)

SECTION

NO SCALE

19 S3.1



ANCHOR BOLT DETAIL

NO SCALE

20 S3.1

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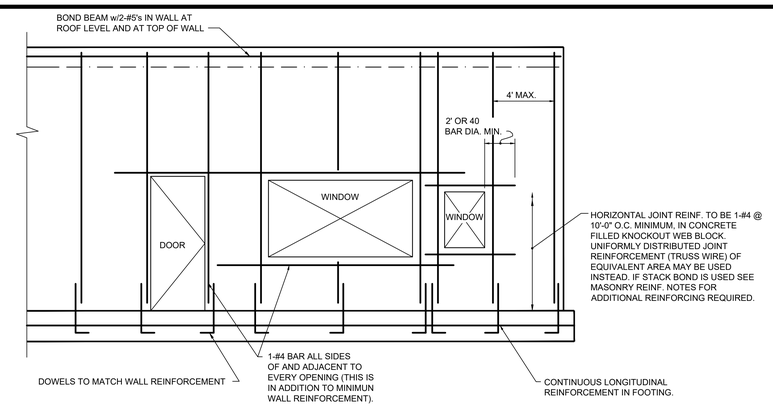
SOUTH CAROLINA
REGISTERED
No. 29222
RANDALL SHANE CREWS
7-15-24

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REV.		REV.	
REV.		REV.	

CONCRETE & MASONRY SECTIONS & DETAILS

S3.1

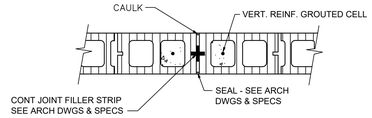


1 S4.1

DETAIL

NO SCALE

REF: MASONRY REINFORCING NOTES.



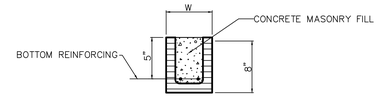
NOTE:
PROVIDE MASONRY WALL CONTROL JOINTS AT 20'-0" O.C., MAX. SEE DWGS. BY OTHERS AND SUBMIT FINAL LAYOUT FOR REVIEW.

3 S4.1

MASONRY CONTROL JOINT

DETAIL

NO SCALE



NOTES:

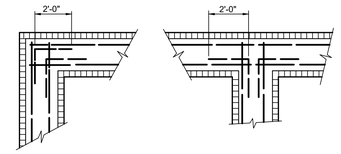
1. BEARING LENGTH AND DISTANCE FROM CLEAR OPENING TO JOINT AT EACH END OF LINTEL SHALL NOT BE LESS THAN 8 ".
2. FOR DOOR AND WINDOW OPENING SIZES AND SPANS REFER TO ARCHITECTUAL DRAWINGS. FOR LOUVER OPENINGS AND DUCTS THROUGH WALLS REFER TO MECHANICAL DRAWINGS.
3. LINTELS ARE FOR WALL LOADS ONLY AND SHALL NOT BE USED WHERE POINT LOADS TO WALL ARE LOCATED WITHIN CLEAR SPAN/2 OF TOP OF LINTEL.

MASONRY LINTEL SCHEDULE		
CLEAR SPAN	BOTTOM REINFORCING	
	W = 8"	W = 12"
UP TO 6'-0"	2 - #4's	3 - #4's
6'-0" - 8'-0"	2 - #5's	3 - #5's

4 S4.1

DETAIL

NO SCALE

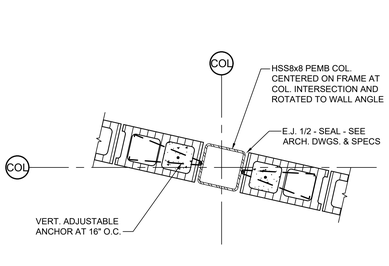


NOTE: CORNER REINFORCING TO MATCH SIZE AND SPACING OF BARS IN BOND BEAM.

3 S4.1

DETAIL

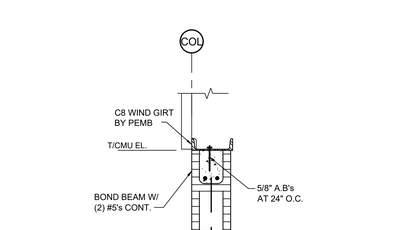
NO SCALE



6 S4.1

DETAIL

NO SCALE



7 S4.1

STEPPED BOND BEAM DETAIL

NO SCALE

8 S4.1

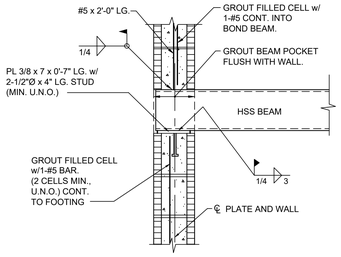
DETAIL

NO SCALE

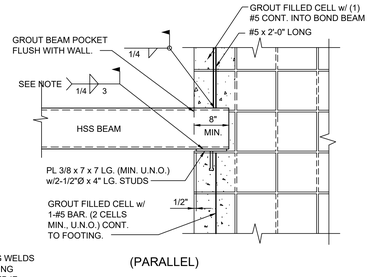
15 S4.1

SECTION

NO SCALE



(PERPENDICULAR)



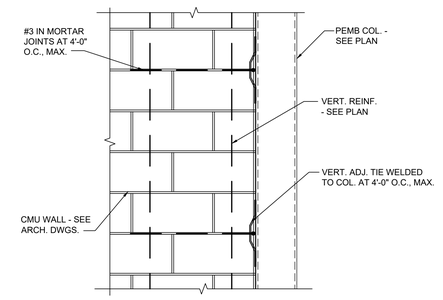
(PARALLEL)

NOTE:
SUBSTITUTE 2 - 3/4"Ø PLUG WELDS ON CENTER LINE OF BEARING PLATE, 1 EACH SIDE OF WEB IF BEAM FLANGE IS EQUAL TO OR WIDER THAN BEARING PLATE.

11 S4.1

BEAM BRG. ON CMU DETAIL

NO SCALE



13 S4.1

DETAIL

NO SCALE

14 S4.1

16 S4.1

DETAIL

NO SCALE

DETAIL

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

18 S4.1

19 S4.1

20 S4.1

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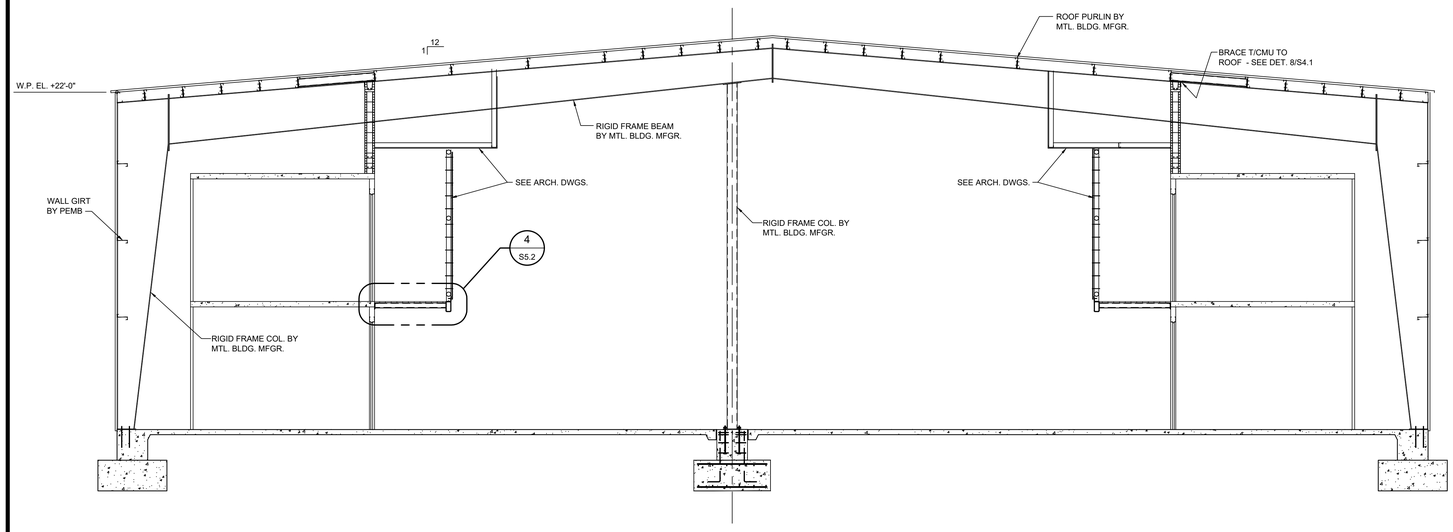
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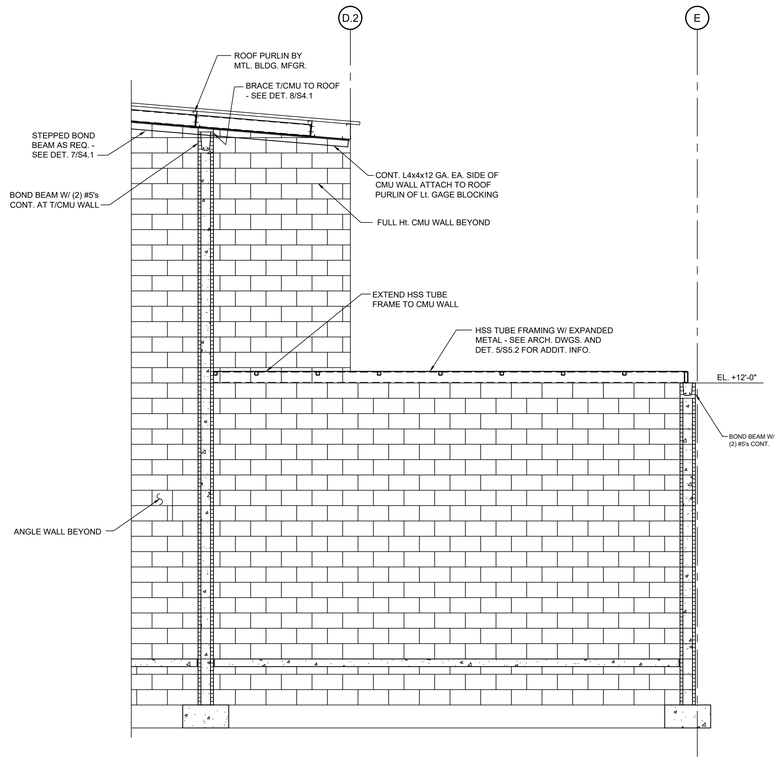
CONCRETE & MASONRY SECTIONS & DETAILS

S4.1



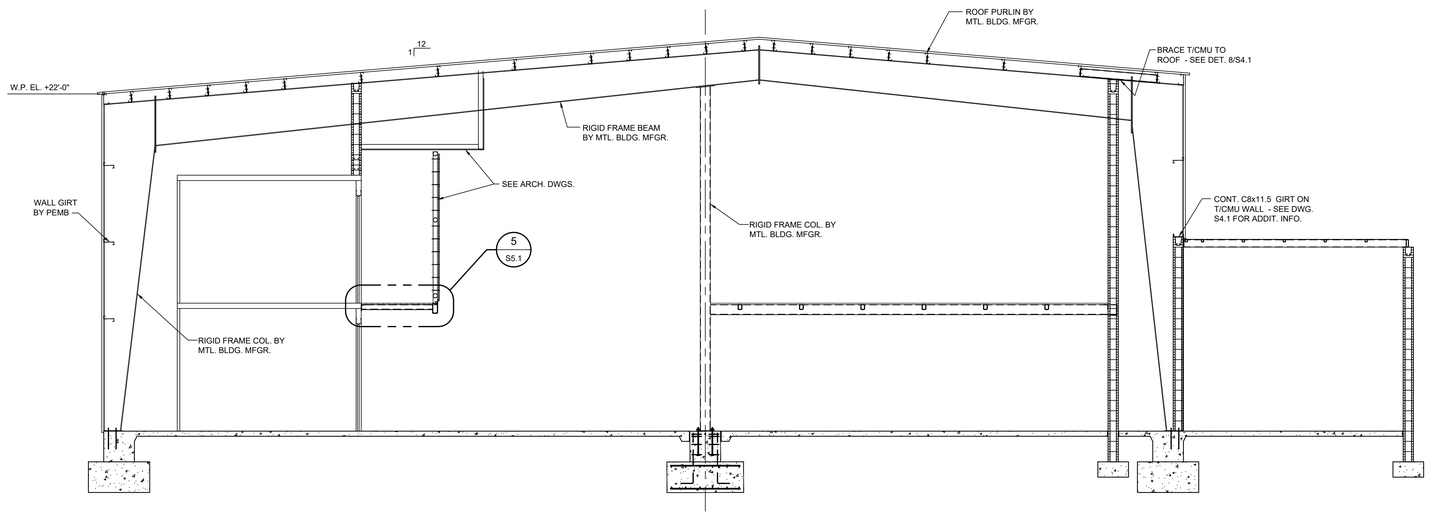
6
S5.1

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



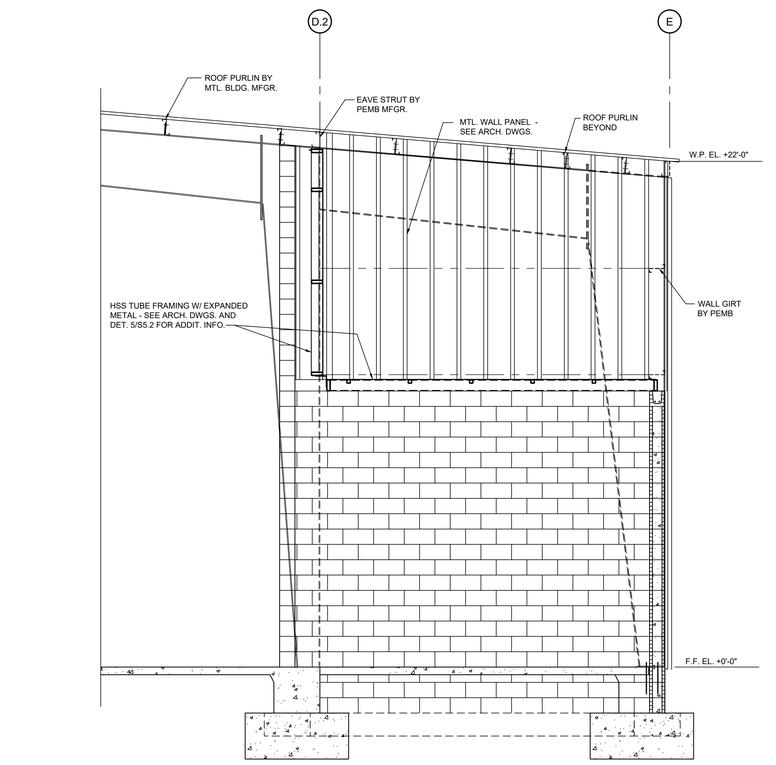
9
S5.1

SECTION
SCALE: 3/8" = 1'-0"



16
S5.1

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



19
S5.1

SECTION
SCALE: 3/8" = 1'-0"

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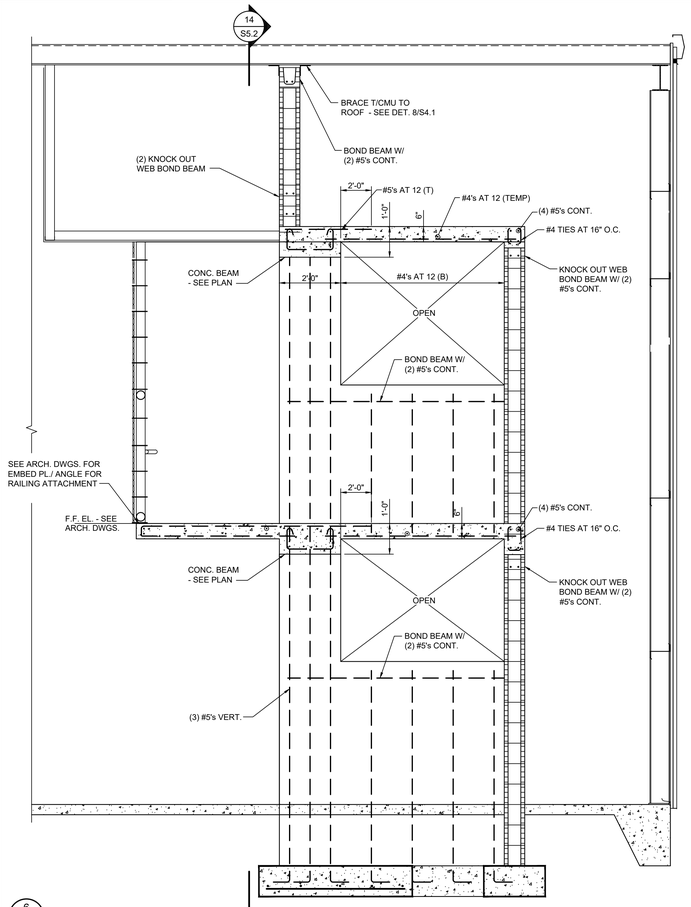
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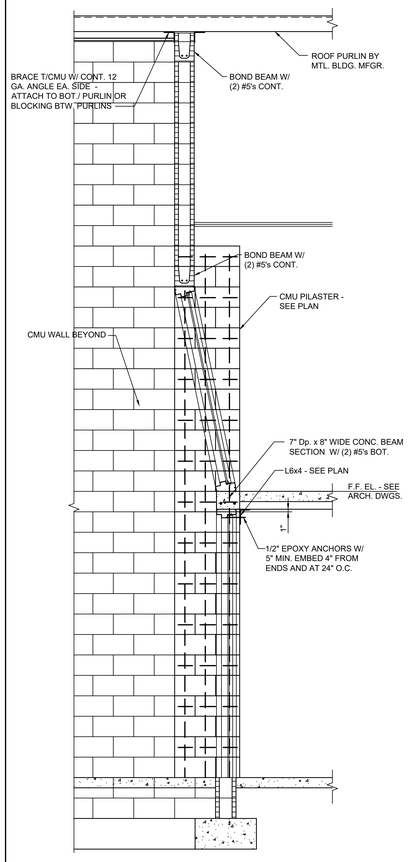
REV. BID SET 25 JUNE, 2025	REV.
REV.	REV.
REV.	REV.
REV.	REV.

STEEL SECTIONS & DETAILS

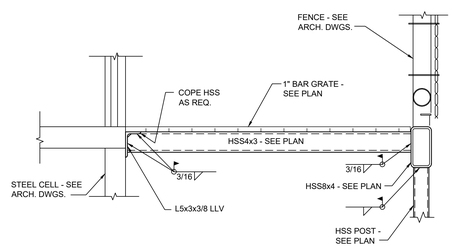
S5.1



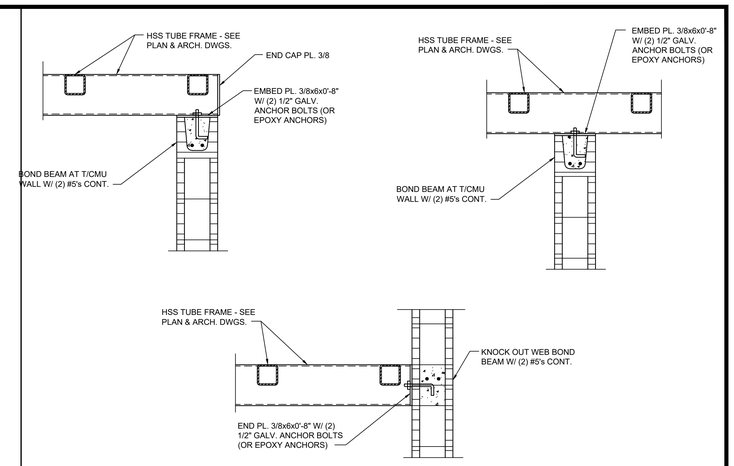
SECTION
SCALE: 1/2" = 1'-0"



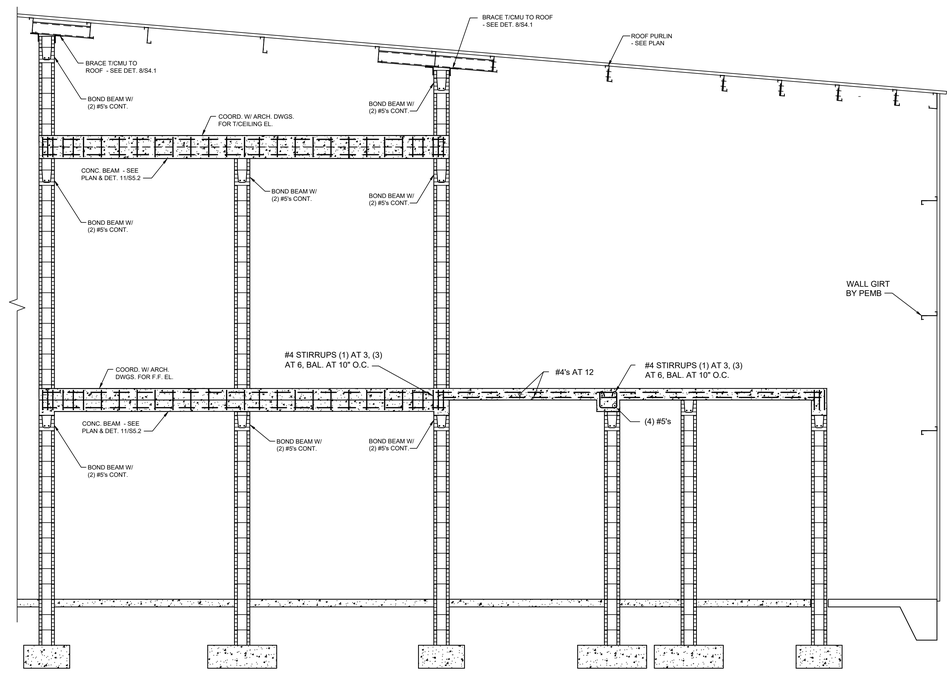
SECTION
SCALE: 1/2" = 1'-0"



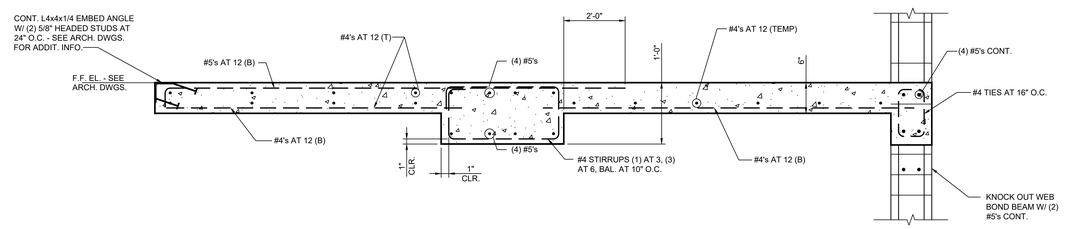
SECTION
SCALE: 1" = 1'-0"



DETAIL
SCALE: 1" = 1'-0"



SECTION
SCALE: 3/8" = 1'-0"



SECTION
SCALE: 1" = 1'-0"

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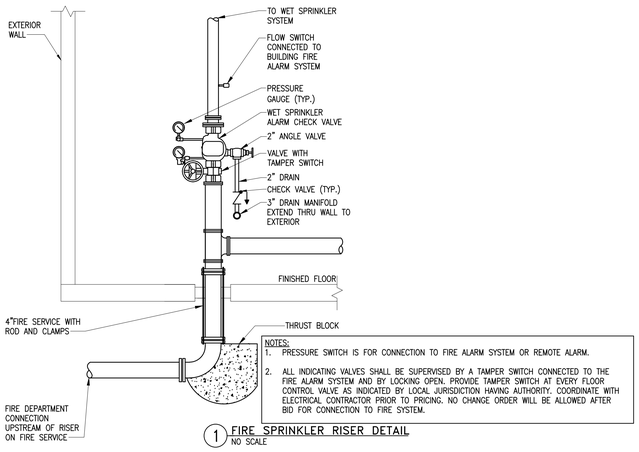
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REV.	REV.
REV.	REV.
REV.	REV.

STEEL SECTIONS & DETAILS

S5.2

16
S5.2

20
S5.2



NOTES:
1. PRESSURE SWITCH IS FOR CONNECTION TO FIRE ALARM SYSTEM OR REMOTE ALARM.
2. ALL INDICATING VALVES SHALL BE SUPERVISED BY A TAMPER SWITCH CONNECTED TO THE FIRE ALARM SYSTEM AND BY LOCKING OPEN. PROVIDE TAMPER SWITCH AT EVERY FLOOR CONTROL VALVE AS INDICATED BY LOCAL JURISDICTION HAVING AUTHORITY. COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO PRICING. NO CHANGE ORDER WILL BE ALLOWED AFTER BID FOR CONNECTION TO FIRE SYSTEM.

1 FIRE SPRINKLER RISER DETAIL
NO SCALE

FIRE PROTECTION SCOPE – NEW BUILDING

THE CONTRACTOR SHALL PROVIDE A RISER AND FULL DISTRIBUTION PIPING, SPRINKLER HEADS, AND ALL OTHER COMPONENTS TO PROVIDE A COMPLETE SYSTEM. PROVIDE SPRINKLER HEADS AND PIPING TO MEET THE CEILING TYPE AND HAZARD CLASSIFICATION (DESIGN CRITERIA). THE SYSTEM SHALL BE HYDRAULICLY DESIGNED. SUBMIT SHOP DRAWINGS INCLUDING HYDRAULIC CALCULATIONS DETAILING THE SYSTEM DESIGN AND PERFORMANCE.

SPRINKLER CONTRACTOR SHALL OBTAIN A NEW FLOW TEST APON AWARDING OF THE PROJECT TO THE SPRINKLER CONTRACTOR. THE SPRINKLER SYSTEM SHALL BE DESIGNED TO WORK WITHIN THE PRESSURE AND FLOW LIMITS OF THIS FLOW TEST WITHOUT THE USE OF A FIRE PUMP UNLESS A FIRE PUMP HAS BEEN INDICTED ON THIS SET OF DRAWINGS. IF THE SYSTEM CANNOT BE MADE TO WORK WITHOUT THE USE OF A FIRE PUMP, THE CONTRACTOR SHALL PROVIDE THE ENGINEER A WRITTEN NOTIFICATION OF THE NEED FOR A FIRE PUMP. THIS NOTIFICATION SHALL INCLUDE HYDRAULIC CALCULATIONS FOR THE SYSTEM SHOWING THAT THE AVAILABLE PRESSURE IS INADEQUATE.

FOLLOW THE SPECIFICATIONS, NOTES, AND SCHEDULES IN THIS DRAWING SET FOR ADDITIONAL REQUIREMENTS.

NOTE:
1. THE FIRE SPRINKLER CONTRACTOR SHALL PROVIDE AND INSTALL A BACKFLOW PREVENTER (LISTED) AT A LOCATION INDICATED BY THE PLUMBING AND/OR CIVIL DRAWINGS. BFP SHALL BE SIZED TO MINIMIZE PRESSURE DROP. IF THE BACKFLOW PREVENTOR IS LOCATED OUTSIDE OF THE SPRINKLER CONTRACTOR'S SCOPE OF WORK (I.E. IS IN A VAULT AND PART OF SITE UTILITY WORK), THE SPRINKLER CONTRACTOR, THE INSTALLING CONTRACTOR, AND THE GENERAL CONTRACTOR SHALL HAVE A FACE TO FACE MEETING TO COORDINATE THE NEEDS OF THE SPRINKLER DESIGN AND CHARACTERISTICS OF THE BACKFLOW PREVENTOR PRIOR TO THE BFP BEING ORDERED. RECORDS OF THIS MEETING, INCLUDING MEETING MINUTES AND ATTENDEES, SHALL BE MADE AVAILABLE TO THE OWNER AND THE DESIGN TEAM UPON REQUEST. THE BACKFLOW PREVENTOR MUST COMPLY WITH THE CHARACTERISTICS REQUIRED OF THE SPRINKLER DESIGN AND SHALL MATCH THE CHARACTERISTICS USED IN THE SPRINKLER HYDRAULIC CALCULATIONS.
2. HYDRAULIC CALCULATIONS SHALL TAKE INTO ACCOUNT THE BFP AND EXTERIOR PIPING FROM THE FLOW TEST HYDRANT.
3. CONTRACTOR SHALL CONFIRM THAT WATER FLOW AND PRESSURE IS ADEQUATE FOR THE DESIGN AND IF NOT NOTIFY THE ARCHITECT AND ENGINEER PRIOR TO INSTALLING OR ORDERING SYSTEM COMPONENTS.
4. UNLESS A FIRE PUMP IS SHOWN ON PGE'S FIRE PROTECTION DRAWINGS, THE SPRINKLER CONTRACTOR SHALL NOT INCLUDE A FIRE PUMP WITHOUT ALSO INCLUDING IN THE FIRE PROTECTION CONTRACTOR'S BID ALL COSTS ASSOCIATED WITH THAT FIRE PUMP INCURRED BY OTHER TRADES. THIS INCLUDES ALL ELECTRICAL WORK ASSOCIATED WITH THE ADDITION OF A FIRE PUMP, INCLUDING A GENERATOR IF REQUIRED; ALL HVAC VENTILATION AND CONDITIONING REQUIREMENTS, INCLUDING ANY NEEDED FOR A DIESEL FIRE PUMP OR AN INDOOR GENERATOR; AND ANY ADDITIONAL SUPPLY AND DRAINAGE PIPE REQUIRED BY THE SITE AND PLUMBING CONTRACTORS. THE FIRE PROTECTION CONTRACTOR SHALL NOT ISSUE A CHANGE ORDER FOR THE COST OF THE FIRE PUMP OR COSTS FOR WORK BY OTHER TRADES INCURRED BY THE ADDITION OF THE FIRE PUMP UNLESS CHANGES TO THE PROJECT OUTSIDE OF THE SPRINKLER CONTRACTOR'S CONTROL CAN BE DEMONSTRATED TO HAVE OCCURRED AFTER THE ACCEPTANCE OF THE SPRINKLER CONTRACTOR'S BID.
5. ALL PIPING ABOVE GRADE SHALL BE PROPERLY SUPPORTED FROM THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR BE SUPPORTED FROM CEILING TILES.
6. FIRE PROTECTION PIPING IS NOT TO BE INSTALLED IN ELECTRICAL ROOMS OR CLOSETS, OR TELEPHONE ROOMS EXCEPT THAT PIPING SERVING THAT SPECIFIC ROOM.
7. LOCATE ALL SECTIONAL OR MAIN CONTROL VALVES WITHIN 1'-0" FROM ACCESS PANELS, CEILING TILES, OR OTHER POINT OF ACCESS.
8. PROVIDE A MANUFACTURED EXPANSION DEVICE OR FABRICATED EXPANSION LOOP ON ALL PIPING SYSTEMS CROSSING BUILDING EXPANSION JOINTS.
9. CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL FIRE PROTECTION EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND THE ELECTRICAL CONTRACTOR, AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN.
10. THE FIRE PROTECTION CONTRACTOR, ELECTRICAL CONTRACTOR, HVAC CONTRACTOR, PLUMBING CONTRACTOR, GENERAL CONTRACTOR, AND ANY OTHER CONTRACTOR THAT MAY HAVE INSTALLATION WORK TO PERFORM WHERE SPRINKLER PIPING IS TO BE INSTALLED, SHALL HAVE A FACE TO FACE MEETING PRIOR TO BEGINNING CONSTRUCTION TO COORDINATE THE INSTALLATION NEEDS OF THE SPRINKLER SYSTEM WITH OTHER TRADES FOR THE PURPOSE OF IDENTIFYING AND AVOIDING INSTALLATION CONFLICTS DURING CONSTRUCTION. RECORDS OF THIS MEETING, INCLUDING MEETING MINUTES AND A LIST OF ATTENDEES, SHALL BE MADE AVAILABLE TO THE OWNER AND THE DESIGN TEAM UPON REQUEST.
11. ALL PIPE PENETRATIONS OF FIRE AND/OR SMOKE-RATED ASSEMBLIES SHALL BE FIRE-STOPPED AS REQUIRED TO RESTORE ASSEMBLY TO ORIGINAL INTEGRITY. FIRE BARRIER PRODUCTS SHALL BE AS MANUFACTURED BY 3M COMPANY, CP25 CAULK, CS195 COMPOSITE PANEL, FS195 WRAP/STRIP, OR PSS 7900 SERIES SYSTEMS AS RECOMMENDED BY MANUFACTURER FOR PARTICULAR APPLICATION, OR EQUIVALENT SYSTEM AS APPROVED BY LOCAL CODE OFFICIALS.

PIPE CONCEALMENT NOTES

PROVIDE A SECURITY SOFFIT SYSTEM WITH CONCEALMENT SURFACE-MOUNTED ATTACHMENT CLAMPS FOR ALL EXPOSED FIRE PROTECTION PIPING IN SECURITY AREAS.

SPRINKLER SYSTEM DESIGN CRITERIA

AREA DESCRIPTION	HAZARD CLASS	SYSTEM TYPE	DENSITY (GPM/SF)	COVERAGE AREA	HOSE STREAM	SPRINKLER TEMP. RATING	KEY NOTES
OFFICES, RESTROOMS, INMATE AREAS, CORRIDORS, AND EXERCISE YARD	LIGHT	WET NFPA 13	0.10	1500 SF	100 GPM	ORDINARY 155°F	(1)(2)
MECHANICAL ROOMS.	ORDINARY HAZARD GROUP 1	WET NFPA 13	0.15	1500 SF	250 GPM	INTERMEDIATE 200°F	–

GENERAL SPRINKLER SYSTEM NOTES:

A. PRIOR TO BEGINNING THE SPRINKLER SYSTEM DESIGN, THE SPRINKLER CONTRACTOR SHALL MEET WITH THE THE OWNER OR OWNER'S REPRESENTATIVE AND DISCUSS THE TYPE, COLOR, AND GENERAL LOCATIONS OF ALL SPRINKLER HEADS IN THE PROJECT. THE SPRINKLER CONTRACTOR'S DESIGN MUST REFLECT THE AGREED UPON SPRINKLER TYPES FOR ALL AREAS. A RECORD OF THIS MEETING SHALL BE AVAILABLE TO THE ENGINEER UPON REQUEST.

B. PRIOR TO THE MEETING BETWEEN THE OWNER AND THE SPRINKLER CONTRACTOR, SPRINKLER HEADS SHALL BE ASSUMED TO BE AS FOLLOWS UNLESS NOTED OTHERWISE ELSEWHERE:
- a. SPRINKLER HEADS SHALL BE CONCEALED TYPE (RECESSED WITH COVER PLATE), FAST RESPONSE SPRINKLERS IN ALL PUBLIC AREAS WITH A CEILING OF ANY TYPE, INCLUDING LAY-IN.
- b. SPRINKLER HEADS IN CEILING SERVING AREAS NOT VISIBLE TO THE PUBLIC MAY BE SEMI RECESSED OR CONCEALED TYPE.
- c. SPRINKLER HEADS SHALL BE UPRIGHT PENDANT, FAST RESPONSE SPRINKLERS IN ALL AREAS WITHOUT A CEILING.
- d. SIDE WALL SPRINKLER HEADS MAY NOT BE USED WHERE A CEILING CAVITY EXISTS THAT WILL ALLOW FOR THE INSTALLATION OF SPRINKLERS IN THE CEILING.
- e. SIDE WALL HEADS MAY ONLY BE USED INSIDE THE BUILDING IF THE PIPING FOR A SPRINKLER HEAD LOCATED ON THE CEILING WOULD BE EXPOSED TO A FREEZING CONDITION.
- f. SPRINKLER HEADS SHALL BE INSTITUTIONAL, CONCEALED, QUICK RESPONSE, EXTENDED COVERAGE, PENDENT SPRINKLER IN ALL CELLS IN HOUSING AREAS.
- g. IF SPRINKLER CONTRACTOR AND OWNER AGREE TO USING DIFFERENT HEAD TYPES FOR CERTAIN AREAS CONTRACTOR MUST INCLUDE LETTER FROM OWNER STATING THE CHANGE IS ACCEPTED PER THE PROVISIONS IN ITEM "A" ABOVE.

C. MULTI-STORY BUILDINGS EXCEEDING TWO STORIES IN HEIGHT SHALL HAVE A FLOOR CONTROL VALVE, CHECK VALVE, MAIN DRAIN VALVE, AND A FLOW SWITCH FOR ISOLATION, CONTROL, AND ANNUNCIATION OF WATER FLOW AT EACH LEVEL. IN A NON-HIGH RISE BUILDING, THE TOP FLOOR MAY BE SUPPLIED FROM THE CONTROL ASSEMBLY ON THE FLOOR BELOW. LIGHT HAZARD BUILDINGS WITH A TOTAL COMBINED FLOOR AREA OF LESS THAN 52,000 SQ. FT. ARE EXEMPT FROM THIS REQUIREMENT UNLESS REQUIRED BY THE LOCAL AHJ.

D. THE SPRINKLER CONTRACTOR SHALL MAKE A REASONABLE ATTEMPT TO DESIGN THE SPRINKLER SYSTEM TO WORK WITHOUT THE USE OF A FIRE PUMP BY USING LARGER PIPE SIZES, EFFICIENT PIPE ROUTING, DEVICES WITH LOW PRESSURE DROP CHARACTERISTICS, ETC. THE ENGINEER'S CALCULATIONS HAVE ASSUMED THAT THE AVERAGE PRESSURE LOSS ACROSS THE SYSTEM SHALL BE NO MORE THAN 0.02 PSI PER FT.

E. UNLESS A FIRE PUMP IS SHOWN ON PGE'S FIRE PROTECTION DRAWINGS, THE SPRINKLER CONTRACTOR SHALL NOT INCLUDE A FIRE PUMP WITHOUT ALSO INCLUDING IN THE FIRE PROTECTION CONTRACTOR'S BID ALL COSTS ASSOCIATED WITH THAT FIRE PUMP INCURRED BY OTHER TRADES. THIS INCLUDES ALL ELECTRICAL WORK ASSOCIATED WITH THE ADDITION OF A FIRE PUMP, INCLUDING A GENERATOR IF REQUIRED; ALL HVAC VENTILATION AND CONDITIONING REQUIREMENTS, INCLUDING ANY NEEDED FOR A DIESEL FIRE PUMP OR AN INDOOR GENERATOR; AND ANY ADDITIONAL SUPPLY AND DRAINAGE PIPE REQUIRED BY THE SITE AND PLUMBING CONTRACTORS. THE FIRE PROTECTION CONTRACTOR SHALL NOT ISSUE A CHANGE ORDER FOR THE COST OF THE FIRE PUMP OR COSTS FOR WORK BY OTHER TRADES INCURRED BY THE ADDITION OF THE FIRE PUMP UNLESS CHANGES TO THE PROJECT OUTSIDE OF THE SPRINKLER CONTRACTOR'S CONTROL CAN BE DEMONSTRATED TO HAVE OCCURRED AFTER THE ACCEPTANCE OF THE SPRINKLER CONTRACTOR'S BID.

F. THE VELOCITY OF WATER IN THE SPRINKLER PIPING SYSTEM SHALL BE LIMITED TO 15 FEET PER SECOND OR LESS.

G. IF, AT THE TIME OF CONSTRUCTION, ONE OR MORE AREAS ARE NOT CLEARLY DEFINED, THE SPRINKLER DESIGN SHALL BE BASED ON THE HYDRAULICALLY MOST DEMANDING CRITERIA OF THE POSSIBLE CHOICES.

H. LISTED, EXTENDED HEADS, MAY BE USED WHERE APPROPRIATE ON THIS PROJECT.

I. SEE CIVIL SITE PLAN AND SPECIFICATIONS FOR BACKFLOW PREVENTOR REQUIREMENTS FOR THE FIRE PROTECTION WATER SERVICE UNLESS BACKFLOW PREVENTOR IS NOTED ON PLUMBING PLANS AS LOCATED INSIDE THE BUILDING..

J. SEE CIVIL OR OTHER AVAILABLE SITE DRAWINGS FOR LOCATION OF WATER MAIN TAP AND INFORMATION ON PUBLIC WATER MAIN CHARACTERISTICS.

K. ALL SPRINKLER COMPONENTS SHALL COMPLY WITH THE LISTING AND/OR PERFORMANCE REQUIREMENTS OF NFPA 13.

L. THE CONTRACTOR MUST COMPLY WITH ALL LOCAL CODES, ORDINANCES, AND OTHER REQUIREMENTS FOR THE SPRINKLER SYSTEM DESIGN. THIS MAY INCLUDE PROVIDING SPRINKLERS FOR AREAS THAT ARE NOT INDICATED ABOVE.

M. ANY DEVIATIONS FROM THE REQUIREMENTS LISTED IN THIS SCHEDULE SHOULD BE CLEARLY MARKED ON THE SPRINKLER DRAWINGS WITH THE RELEVANT CODE SECTION ALLOWING THE DEVIATION NOTED.

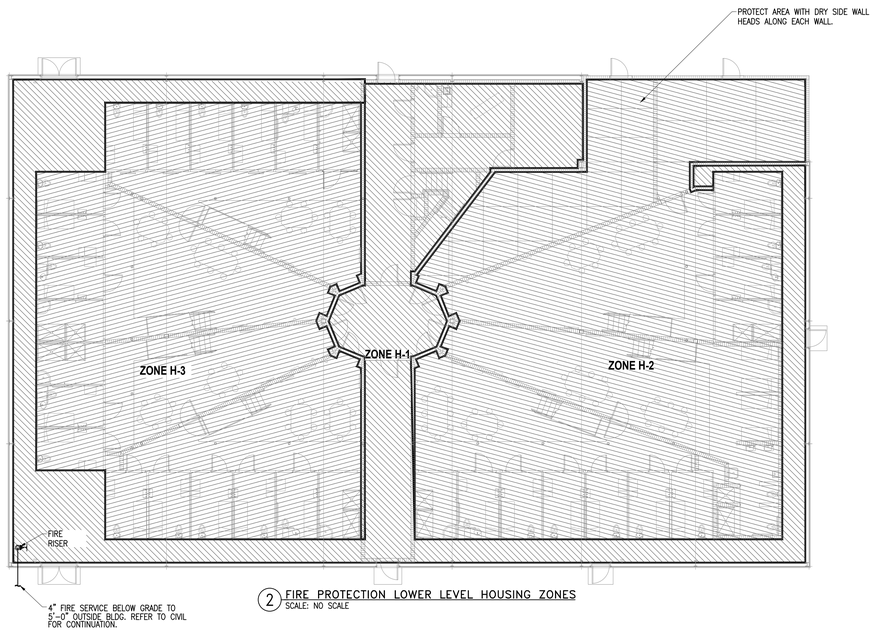
N. NO WET SPRINKLER PIPING SHALL BE RUN IN A LOCATION SUBJECT TO FREEZING TEMPERATURES. THIS INCLUDES RUNNING PIPE ABOVE ISOLATED UNHEATED AREAS OF THE BUILDING, EVEN IF INSIDE THE INSULATED ENVELOPE OF THE BUILDING.

O. ALL SPRINKLER PIPING SHALL BE RUN TIGHT TO STRUCTURE ABOVE (OR INSIDE JOIST SPACE IF APPLICABLE) IN ORDER TO MAXIMIZE THE POTENTIAL FOR THE CEILING TO BE RAISED TO A HIGHER ELEVATION IN THE FUTURE WITH MINIMAL IMPACT TO THE SPRINKLER PIPING SYSTEM. ONLY PIPING FOR INDIVIDUAL SPRINKLER HEADS MAY BE DROPPED TO THE CEILING ELEVATION IN AREAS WITH LARGE ABOVE CEILING CAVITIES UNLESS DIRECTED OTHERWISE IN WRITING BY THE OWNER, ARCHITECT, OR PLUMBING ENGINEER.

SPRINKLER SYSTEM KEY NOTES:

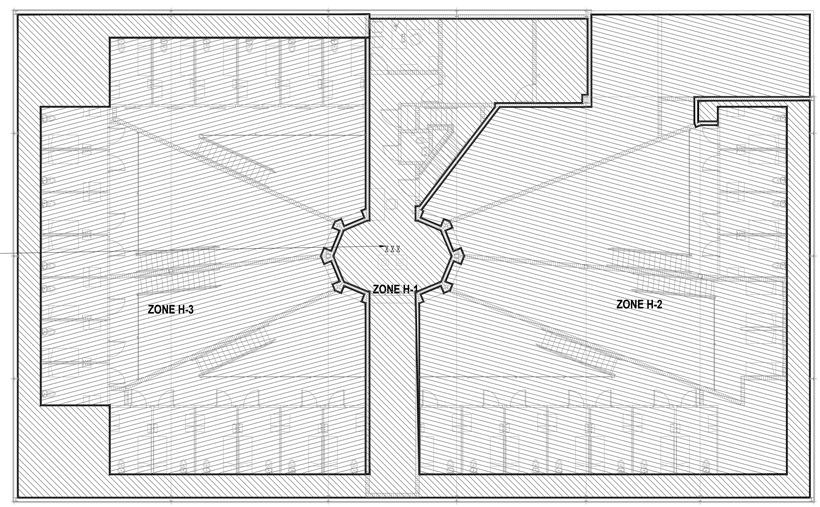
(1) PROVIDE DRY PENDANT OR SIDEWALL, FAST RESPONSE SPRINKLERS AT ALL BALCONIES, PORCHES, OUTDOOR CORRIDORS, UNHEATED STORAGE ROOMS, UNHEATED ELECTRICAL ROOMS, AND BELOW ALL EXTERIOR OVERHANGS, ROOFS, OR CANOPIES EXCEEDING 4 FEET IN WIDTH.

(2) INMATE AREAS SHALL COMPLY WITH NFPA 13 NOT NFPA 13R.



2 FIRE PROTECTION LOWER LEVEL HOUSING ZONES
SCALE: NO SCALE

SPRINKLER SYSTEM ZONE CONTROL VALVES LOCATED 6 TO 12 INCHES ABOVE CEILING IN CONTROL ROOM. TOTAL OF 3 ZONES. VERIFY CONTROL LOCATION WITH OWNER. PROVIDE PERMANENT WALL SIGN THAT CLEARLY STATES VALVE LOCATION AND ZONES CONTROLLED. VALVE SHALL HAVE METAL TAGS INDICATING ZONE. EACH ZONE VALVE SHALL BE MONITORED BY THE FIRE ALARM SYSTEM.



3 FIRE PROTECTION UPPER LEVEL HOUSING ZONES
SCALE: NO SCALE

STUDIO8 design
architecture
2772 North Oak Street
Valdosta, Georgia 31602
P.(229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

Phillips Gradick Engineering, P.C.
8215 Roswell Road, Suite 925
Atlanta, GA 30350
Telephone: 770.650.9061 Fax: 770.642.2410
PGE Project No. 224015

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A HOUSING FACILITY FOR
NEWBERRY COUNTY DETENTION CENTER
NEWBERRY, SOUTH CAROLINA

PHILLIPS GRADICK ENGINEERING, PC. No. 4128 CERTIFICATE OF AUTHORIZATION SOUTH CAROLINA

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 32993 CLAY D. FREELS

07/12/2024

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DATE	07/12/2024	© 2024 STUDIO8 design, LLC

REV.	BID SET 25 JUNE 2025	REV.	
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FIRE PROTECTION

FP0.1

PEX PIPING SPECIFICATION

CROSSLINKED POLYETHYLENE (PEX) PIPING MAY BE USED AS PART OR ALL OF THE DOMESTIC WATER PIPING DISTRIBUTION SYSTEM AS LISTED IN THE PLUMBING SCHEDULE AND IF PRE-APPROVED BY THE BUILDING OWNER. ALL PEX SYSTEM INSTALLATIONS MUST ADHERE TO THE FOLLOWING SPECIFICATIONS:

CERTIFICATION
A. PROVIDE LETTERS OF CERTIFICATION AS FOLLOWS:
   1. INSTALLER IS TRAINED BY THE PEX TUBING MANUFACTURER TO INSTALL THE PEX POTABLE WATER DISTRIBUTION SYSTEM.
   2. INSTALLER WILL USE SKILLED WORKERS HOLDING A TRADE QUALIFICATION LICENSE OR EQUIVALENT, OR APPRENTICES UNDER THE SUPERVISION OF A LICENSED TRADES PROFESSIONAL.

MATERIALS
A. TUBING
   1. MATERIAL: CROSSLINKED POLYETHYLENE (PEX) MANUFACTURED BY PEX-A OR ENGEL METHOD
   2. MATERIAL STANDARD: MANUFACTURED IN ACCORDANCE WITH ASTM F876 AND ASTM F877 AND TESTED FOR COMPLIANCE BY AN INDEPENDENT THIRD PARTY AGENCY
   3. STANDARD GRADE HYDROSTATIC DESIGN AND PRESSURE RATINGS FROM PPI
   4. MINIMUM BEND RADIUS (COLD BENDING): NO LESS THAN SIX TIMES THE OUTSIDE DIAMETER. USE A BEND SUPPORT AS SUPPLIED BY THE PEX TUBING MANUFACTURER FOR TUBING WITH A BEND RADIUS LESS THAN STATED.

B. FITTINGS
   1. MATERIAL: FITTING ASSEMBLY IS MANUFACTURED FROM MATERIAL LISTED IN PARAGRAPH 5.1 OF ASTM F1960.
   2. MATERIAL STANDARD: COMPLY WITH ASTM F1960.
   3. TYPE: PEX-A COLD EXPANSION FITTING CONSISTING OF AN APPROPRIATE INSERT WITH A CORRESPONDING RING.

C. MANIFOLDS SHALL HAVE COPPER OR ENGINEERED PLASTIC BODIES WITH OUTLET CONNECTIONS THE SAME OR LARGER THAN THE CONNECTED PIPE SIZE AND A SHUT-OFF VALVE ON EACH INDIVIDUAL OUTLET. ALL MANIFOLDS SHALL BE APPROVED BY THE PEX MANUFACTURER FOR USE IN THEIR SYSTEM WITHOUT ANY NEGATIVE IMPACT ON THE WARRANTY OF THE PEX SYSTEM.

D. ACCESSORIES
   1. ANGLE STOPS AND STRAIGHT STOPS THAT ARE COMPATIBLE WITH PEX TUBING AND SUPPLIED BY THE PEX TUBING MANUFACTURER.
   2. BEND SUPPORTS DESIGNED FOR MAINTAINING TIGHT RADIUS BENDS SUPPLIED BY THE PEX TUBING MANUFACTURER.
   3. INSTALLATION TOOLS TO INSTALL THE ASTM F1960 COMPATIBLE FITTINGS SUPPLIED BY THE PEX TUBING MANUFACTURER.
   4. THE TUBING MANUFACTURER PROVIDES CLIPS AND/OR PEX RAILS FOR SUPPORTING TUBING RUNS.
   5. ALL HORIZONTAL TUBING HANGERS AND RISER CLAMPS ARE EPOXY-COATED MATERIAL.
   6. WHERE PEX SYSTEMS CONNECT TO CPVC OR COPPER PIPING SYSTEM, TRANSITION FITTINGS MUST BE PROVIDED THAT ARE COMPLIANT WITH THE REQUIREMENTS OF BOTH PIPING SYSTEMS.

WARRANTY
A. SYSTEM SHALL HAVE LIMITED WARRANTY OF UP TO 25 YEARS FOR TUBING AND FITTINGS WHEN INSTALLED BY AN FACTORY-TRAINED CONTRACTOR AND CERTIFIED PLUMBING PROFESSIONAL.

INSTALLATION
A. PEX TUBING
   1. INSTALL PEX TUBING IN ACCORDANCE WITH THE TUBING MANUFACTURER'S RECOMMENDATIONS AND AS INDICATED IN THE INSTALLATION HANDBOOK.
   2. DO NOT INSTALL PEX TUBING WITHIN 6 INCHES OF GAS APPLIANCE VENTS OR WITHIN 12 INCHES OF ANY RECESSED LIGHT FIXTURES.
   3. DO NOT SOLDER WITHIN 18 INCHES OF PEX TUBING IN THE SAME WATERLINE. MAKE SWEAT CONNECTIONS PRIOR TO MAKING PEX CONNECTIONS.
   4. DO NOT EXPOSE PEX TUBING TO DIRECT SUNLIGHT FOR MORE THAN 30 DAYS.
   5. ENSURE NO GLUES, SOLVENTS, SEALANTS OR CHEMICALS COME IN CONTACT WITH THE TUBING WITHOUT PRIOR PERMISSION FROM THE TUBING MANUFACTURER.
   6. USE GROMMETS OR SLEEVES AT THE PENETRATION FOR PEX TUBING PASSING THROUGH METAL STUDS.
   7. PROTECT PEX TUBING WITH SLEEVES WHERE ABRASION MAY OCCUR.
   8. USE STRIKE PROTECTORS WHERE PEX TUBING PENETRATES A STUD OR JOIST AND HAS THE POTENTIAL FOR BEING STRUCK WITH A SCREW OR NAIL.
   9. USE TUBING MANUFACTURER-SUPPLIED BEND SUPPORTS WHERE BENDS ARE LESS THAN SIX TIMES THE OUTSIDE TUBING DIAMETER.
   10. MINIMUM HORIZONTAL SUPPORTS ARE INSTALLED NOT LESS THAN 32 INCHES BETWEEN HANGERS IN ACCORDANCE WITH MODEL PLUMBING CODES AND THE INSTALLATION HANDBOOK.
   11. PEX RISER INSTALLATIONS REQUIRE EPOXY-COATED RISER CLAMPS INSTALLED AT THE BASE OF THE CEILING PER FLOOR.
   12. A MID-STORY SUPPORT IS REQUIRED FOR RISER APPLICATIONS.
   13. PRESSURIZE TUBING WITH AIR IN ACCORDANCE WITH APPLICABLE CODES OR IN THE ABSENCE OF APPLICABLE CODES TO A PRESSURE OF 25 PSI ABOVE NORMAL WORKING PRESSURE OF THE SYSTEM.
   14. COMPLY WITH SAFETY PRECAUTIONS WHEN PRESSURE TESTING, INCLUDING USE OF COMPRESSED AIR, WHERE APPLICABLE. DO NOT USE WATER TO PRESSURIZE THE SYSTEM IF AMBIENT AIR TEMPERATURE HAS THE POSSIBILITY OF DROPPING BELOW 32°F.

BASIS OF DESIGN
THE BASIS OF DESIGN PRODUCT IS UPANOR'S WIRSBO AQUAPEX PIPING SYSTEM AND THE ABOVE SPECIFICATIONS REFLECT THEIR REQUIREMENTS. RHEAU PEX MAY BE USED AS A SUBSTITUTION. NO OTHER PEX SYSTEMS MAY BE USED WITHOUT APPROVAL FROM THE ENGINEER.

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	CONNECTIONS CW	HW	S/W	HEIGHT	WATER USE	SPECIFICATION	MODEL	NOTES
P1	INSTITUTIONAL FLOOR MOUNTED REAR OUTLET LAV/TOILET CENTERED COMBINATION UNIT	1"	1/2"	4"	–	1.28 GPF	UNIT: FLOOR MOUNTED, 304 STAINLESS STEEL, SIPHON JET FLUSH ACTION, DESIGNED FOR 1.28 GALLONS PER FLUSH. PROVIDE CLEAN OUT TEE OUTLET, INTEGRAL SEAT AND FLOOR MOUNTING KIT. PROVIDE ANTI-FLOOD DEVICE. FLUSH VALVE: CONCEALED, DIAPHRAGM TYPE, ROUGH BRASS, NON-HOLD OPEN PUSH BUTTON, LOW CONSUMPTION 1.28 GALLON PER FLUSH, VACUUM BREAKER, HAND WHEEL ANGLE STOP. LAV VALVE: NON-HOLD OPEN METERING (5-90 SECONDS) PNEUMATIC VALVE ASSEMBLY, VANDAL RESISTANT DIAPHRAGM TYPE PUSH BUTTONS, 0.5 GPM FLOW CONTROL, 1/2" FPT.	UNIT: ACORN MODEL 1415-CT-2-BP-04-M-HET 1.28 GPF -FVBO-FT-FVT-PT-SPS-SW WITH SLIP JOINT P-TRAP WASTE WITH CLEANOUT OR EQUAL BY METCRAFT, WILLOUGHBY, ACORN, BRADLEY, OR APPROVED EQUAL. FLUSH VALVE: SLOAN ROYAL PRISON MODEL 9603-1.28 OR EQUAL BY DELANEY, ZURN, OR APPROVED EQUAL. LAV VALVE: ACORN OPTION -04-M (SINGLE FIXTURE) OR EQUAL BY METCRAFT, WILLOGHBY, BRADLEY, ACORN, OR APPROVED EQUAL.	–
P2	ADA INSTITUTIONAL FLOOR MOUNTED REAR OUTLET LEFT OFFSET LAV/TOILET COMBINATION UNIT	1"	1/2"	4"	–	1.28 GPF	UNIT: ADA FLOOR MOUNTED, 304 STAINLESS STEEL, SIPHON JET FLUSH ACTION, DESIGNED FOR 1.28 GALLONS PER FLUSH. PROVIDE CLEAN OUT TEE OUTLET , INTEGRAL SEAT AND FLOOR MOUNTING KIT. PROVIDE ANTI-FLOOD DEVICE. FLUSH VALVE: CONCEALED, DIAPHRAGM TYPE, ROUGH BRASS, NON-HOLD OPEN PUSH BUTTON, LOW CONSUMPTION 1.28 GALLON PER FLUSH, VACUUM BREAKER, HAND WHEEL ANGLE STOP. LAV VALVE: NON-HOLD OPEN METERING (5-90 SECONDS) PNEUMATIC VALVE ASSEMBLY, VANDAL RESISTANT DIAPHRAGM TYPE PUSH BUTTONS, 0.5 GPM FLOW CONTROL, 1/2" FPT.	UNIT: ACORN MODEL 1449-LO-2-BP-04-M-HET 1.28 GPF-FVBO-FT-SPS-SW SERIES WITH P-TRAP WASTE WITH CLEANOUT OR EQUAL BY METCRAFT, WILLOUGHBY, ACORN, BRADLEY, OR APPROVED EQUAL. FLUSH VALVE: SLOAN ROYAL PRISON MODEL 9603-1.28 OR EQUAL BY DELANEY, ZURN, OR APPROVED EQUAL. LAV VALVE: ACORN OPTION -04-M (SINGLE FIXTURE) OR EQUAL BY METCRAFT, WILLOGHBY, BRADLEY, ACORN, OR APPROVED EQUAL.	–
P3	ADA INSTITUTIONAL FLOOR MOUNTED REAR OUTLET RIGHT OFFSET LAV/TOILET COMBINATION UNIT	1"	1/2"	4"	–	1.28 GPF	UNIT: ADA FLOOR MOUNTED, 304 STAINLESS STEEL, SIPHON JET FLUSH ACTION, DESIGNED FOR 1.28 GALLONS PER FLUSH. PROVIDE CLEAN OUT TEE OUTLET, INTEGRAL SEAT AND FLOOR MOUNTING KIT. PROVIDE ANTI-FLOOD DEVICE. FLUSH VALVE: CONCEALED, DIAPHRAGM TYPE, ROUGH BRASS, NON-HOLD OPEN PUSH BUTTON, LOW CONSUMPTION 1.28 GALLON PER FLUSH, VACUUM BREAKER, HAND WHEEL ANGLE STOP. LAV VALVE: NON-HOLD OPEN METERING (5-90 SECONDS) PNEUMATIC VALVE ASSEMBLY, VANDAL RESISTANT DIAPHRAGM TYPE PUSH BUTTONS, 0.5 GPM FLOW CONTROL, 1/2" FPT.	UNIT: ACORN MODEL 1449-RO-2-BP-04-M-HET 1.28 GPF-FVBO-FT-SPS-SW SERIES WITH P-TRAP WASTE WITH CLEANOUT OR EQUAL BY METCRAFT, WILLOUGHBY, ACORN, BRADLEY, OR APPROVED EQUAL. FLUSH VALVE: SLOAN ROYAL PRISON MODEL 9603-1.28 OR EQUAL BY DELANEY, ZURN, OR APPROVED EQUAL. LAV VALVE: ACORN OPTION -04-M (SINGLE FIXTURE) OR EQUAL BY METCRAFT, WILLOGHBY, BRADLEY, ACORN, OR APPROVED EQUAL.	–
P4	ADA FLOOR MOUNTED, WALL OUTLET, FLUSH VALVE WATER CLOSET	1"	–	4"	–	1.28 GPF	UNIT: ADA COMPLIANT, WHITE, VITREOUS CHINA, TOP SPUD, FULLY GLAZED TRAP WAY, SIPHON JET ACTION FLUSH, ELONGATED BOWL. FLUSH VALVE: ADA COMPLIANT, MANUAL, BRONZE BODY AND PISTON WITH STAINLESS STEEL DEBRIS SCREEN, CHROME FINISH, ACCESSORIES SHALL INCLUDE VACUUM BREAKER, ANGLE STOP, CHECK VALVE, AND ESCUTCHEON. SEAT: WHITE, EXTRA HEAVY WEIGHT PLASTIC, OPEN FRONT LESS COVER, INTEGRALLY MOLDED BUMPERS, BOLT CAPS, SELF SUSTAINING STAINLESS STEEL CHECK HINGE.	UNIT: KOHLER K-4405 OR EQUAL BY AMERICAN STANDARD, KOHLER, TOTO OR OTHER APPROVED EQUAL. FLUSH VALVE: KOHLER K-13517 OR EQUAL BY SLOAN, TOTO, ZURN OR OTHER APPROVED EQUAL. SEAT: CHURCH 9500SSC OR EQUAL BY BEMIS, BENEKE, CENTOCO, CHURCH, OR SEAT MADE BY WATER CLOSET MANUFACTURER.	(4)(8)(9)
P5	INSTITUTIONAL FLOOR MOUNTED, WALL OUTLET, FLUSH VALVE WATER CLOSET	1"	–	4"	–	1.28 GPF	UNIT: ADA, FLOOR MOUNTED, 304 STAINLESS STEEL, SIPHON JET FLUSH ACTION, DESIGNED FOR 1.28 GALLONS PER FLUSH, INTEGRAL SEAT AND FLOOR MOUNTING KIT. FLUSH VALVE: ADA COMPLIANT, BRONZE BODY, CHROME FINISH, ACCESSORIES SHALL INCLUDE VACUUM BREAKER, ANGLE STOP, CHECK VALVE, AND ESCUTCHEON.	UNIT: ACORN MODEL 1695-T-2-HET 1.28 GPF-FVBO-ADA-CN-FT-SPS OR EQUAL BY METCRAFT, WILLOUGHBY, ACORN, BRADLEY, OR APPROVED EQUAL. FLUSH VALVE: SLOAN ROYAL PRISON MODEL 9603-1.28-MBPM WITH WB-1-A OR EQUAL BY DELANEY, ZURN, OR APPROVED EQUAL.	–
P6	ADA INSTITUTIONAL FLOOR MOUNTED, WALL OUTLET, FLUSH VALVE WATER CLOSET	1"	–	4"	–	1.28 GPF	UNIT: ADA, FLOOR MOUNTED, 304 STAINLESS STEEL, SIPHON JET FLUSH ACTION, DESIGNED FOR 1.28 GALLONS PER FLUSH, INTEGRAL SEAT AND FLOOR MOUNTING KIT. FLUSH VALVE: ADA COMPLIANT, BRONZE BODY, CHROME FINISH, ACCESSORIES SHALL INCLUDE VACUUM BREAKER, ANGLE STOP, CHECK VALVE, AND ESCUTCHEON.	UNIT: ACORN MODEL 1695-T-2-HET 1.28 GPF-FVBO-ADA-CN-FT-SPS OR EQUAL BY METCRAFT, WILLOUGHBY, ACORN, BRADLEY, OR APPROVED EQUAL. FLUSH VALVE: SLOAN ROYAL PRISON MODEL 9603-1.28-MBPM WITH WB-1-A OR EQUAL BY DELANEY, ZURN, OR APPROVED EQUAL.	–
P7	ADA, INSTITUTIONAL WALL MOUNTED, REAR OUTLET, FRONT ACCESS LAVATORY	1/2"	1/2"	1 1/4"	34"	0.5 GPM	UNIT: ADA COMPLIANT, WALL MOUNTED, 304 STAINLESS STEEL, OVAL BOWL 14-3/4"X9-1/2"X4-1/2" DEEP. LAV VALVE: DUAL TEMPERATURE PNEUMATIC LAVATORY VALVE - NON-HOLD OPEN METERING (5-90 SECONDS) PNEUMATIC VALVE ASSEMBLY, VANDAL RESISTANT DIAPHRAGM TYPE PUSH BUTTONS, 0.5 GPM FLOW CONTROL 1/2" FPT.	UNIT: ACORN MODEL 1652FA-1-4-M-OF OR EQUAL BY METCRAFT, WILLOUGHBY, ACORN, BRADLEY, OR APPROVED EQUAL. LAV VALVE: ACORN OPTION -4-M OR EQUAL BY METCRAFT, WILLOGHBY, BRADLEY, ACORN, OR APPROVED EQUAL.	–
P8	ADA, PUBLIC WALL MOUNT LAVATORY	1/2"	1/2"	1 1/2"	31"	0.5 GPM	UNIT: ADA COMPLIANT, WHITE, VITREOUS CHINA, 21" X 18", WALL HUNG, FAUCET HOLES ON 4" CENTERS, COMPATIBLE WITH CONCEALED ARM CARRIER, OVERFLOW. LAV VALVE: SINGLE LEVER, RED/BLUE HOT/COLD INDICATORS, CERAMIC CONTROL COMPONENTS, 4" CENTERS, BRONZE BODY, ALL METAL CONSTRUCTION, POLISHED CHROME FINISH, FLOW LIMITING AERATOR.	UNIT: KOHLER K-2005 OR EQUAL BY AMERICAN STANDARD, KOHLER, TOTO, OR OTHER APPROVED EQUAL. LAV VALVE: MOEN 8433 OR EQUAL BY DELTA, KOHLER, MOEN, SYMMONS OR OTHER APPROVED EQUAL.	(3)(5)(6)(7)
P9	INSTITUTIONAL SHOWER PANEL	–	3/4"	2"	–	1.6 GPM	PANEL: 304 STAINLESS STEEL, SEAMLESS WELDED SURFACES RECESSED SOAP DISH, VANDAL PROOF PUSH-BUTTON AND VANDAL PROOF STAINLESS STEEL SCREWS. SHWR VALVE: SINGLE TEMPERATURE AIR METERING VALVE WITH 3/8" FEMALE NPT INLET. SHWR HEAD: 1.6 GPM WITH FIXED DIRECT SPRAY VANDAL PROOF BY MANUFACTURER DRAIN: FLOOR DRAIN WITH VANDAL PROOF GRID.	PANEL: ACORN MODEL 1741-FA-3 WITH 1.6 GPM FLOW CONTROL PART 0469-16-000 OR EQUAL BY METCRAFT, WILLOUGHBY, ACORN, BRADLEY, OR APPROVED EQUAL. SHWR VALVE: ACORN OPTION -3 OR EQUAL BY MANUFACTURER. SHWR HEAD: ACORN "PENAL" SHOWER HEAD ASSEMBLY OR EQUAL BY MANUFACTURER. DRAIN: SEE FD1 ON PLUMBING DRAIN SCHEDULE	(1)
P10	ADA INSTITUTIONAL SHOWER PANEL	–	3/4"	2"	–	1.6 GPM	PANEL: 304 STAINLESS STEEL, SEAMLESS WELDED SURFACES RECESSED SOAP DISH, VANDAL PROOF PUSH-BUTTON AND VANDAL PROOF STAINLESS STEEL SCREWS. SHWR VALVE: SINGLE TEMPERATURE AIR METERING VALVE WITH 3/8" FEMALE NPT INLET. SHWR HEAD: 2-1.6 GPM WITH FIXED DIRECT SPRAY VANDAL PROOF BY MANUFACTURER DRAIN: FLOOR DRAIN WITH VANDAL PROOF GRID.	PANEL: ACORN MODEL 1741-ADA-FA-3-FH WITH 1.6 GPM FLOW CONTROL PART 0469-16-000 OR EQUAL BY METCRAFT, WILLOUGHBY, ACORN, BRADLEY, OR APPROVED EQUAL. SHWR VALVE: ACORN OPTION -3 OR EQUAL BY MANUFACTURER. SHWR HEAD: ACORN "PENAL" SHOWER HEAD ASSEMBLY OR EQUAL BY MANUFACTURER. DRAIN: SEE FD1 ON PLUMBING DRAIN SCHEDULE	(1)
P11	JANITOR'S MOP SINK	3/4"	3/4"	2"	–	2.2 GPM	UNIT: FLOOR MOUNTED, TERRAZZO, 24"X24"X12" DEEP, STAINLESS STEEL CAPS, STAINLESS STEEL STRAINER, STAINLESS STEEL WALL GUARDS. FAUCET VALVE: WALL MOUNTED, SOLID BRASS, INTEGRAL VACUUM BREAKER, PAIL HOOK, WALL BRACE, 3/4" HOSE THREADED OUTLET, LEVER HANDLE.	UNIT: FIAT MODEL TSBCR 1100 OR EQUAL BY ACORN. KOHLER K-3348-3 OR EQUAL BY ELKAY, JUST, OR OTHER APPROVED EQUAL. FAUCET VALVE: CHICAGO 540-LD897SWXFCP OR EQUAL BY CHICAGO, T&S BRASS, OR APPROVED EQUAL.	(2)
P12	ONE COMPARTMENT SERVICE SINK	3/4"	3/4"	2"	–	2.2 GPM	UNIT: WALL MOUNTED 24" X 20" X 13" DEEP ENAMELED CAST IRON WITH CAST IRON TRAP AND GRID DRAIN WITH STOPPER. FAUCET VALVE: WALL MOUNTED, SOLID BRASS, INTEGRAL VACUUM BREAKER, PAIL HOOK, WALL BRACE, 3/4" HOSE THREADED OUTLET, LEVER HANDLE.	UNIT: KOHLER BANNON K-6719 OR EQUAL BY KOHLER, AMERICAN STANDARD, ZURN, OR APPROVED EQUAL. FAUCET VALVE: CHICAGO 540-LD897SWXFCP OR EQUAL BY CHICAGO, T&S BRASS, OR APPROVED EQUAL.	–
P13	EXAM SINK	3/4"	3/4"	2"	–	2.2 GPM	UNIT: SINGLE COMPARTMENT, DROP IN SINK WITH FAUCET LEDGE, 18 GAUGE TYPE 304 STAINLESS STEEL, CENTER PUNCHED DRAIN HOLE, POLISHED FINISH, 12"X9-1/2"X7" DEEP BOWL WITH ROUNDED CORNERS. FAUCET VALVE: GOOSE NECK SPOUT, LEVER HANDLE CONTROLS, CERAMIC CONTROL COMPONENTS, HANDLE LIMIT STOPS, RED/BLUE HOT/COLD INDICATORS, SWING SPOUT, BRONZE BODY AND ALL METAL CONSTRUCTION, POLISHED CHROME FINISH. DRAIN: STAINLESS STEEL DRAIN WITH STAINLESS STEEL CRUMB CUP STRAINER.	UNIT: KOHLER K-3349-2 OR EQUAL BY ELKAY, JUST, OR OTHER APPROVED EQUAL. FAUCET VALVE: SYMMONS S-23 OR EQUAL BY CHICAGO, T&S FAUCET: SYMMONS S-245-LWG OR EQUAL BY CHICAGO, T&S BRASS, OR APPROVED EQUAL. DRAIN: JUST J-35 OR APPROVED EQUAL.	(1)
P14	ADA, INSTITUTIONAL WALL MOUNTED, REAR OUTLET, FLUSH VALVE, URINAL	3/4"	–	2"	17"	0.125 GPF	UNIT: ADA, WALL MOUNTED, 304 STAINLESS STEEL, CONCEALED FLUSH VALVE, DESIGNED FOR 0.125 GALLONS PER FLUSH FLUSH VALVE: ADA COMPLIANT, BRONZE BODY, CHROME FINISH, ACCESSORIES SHALL INCLUDE VACUUM BREAKER, ANGLE STOP, CHECK VALVE, AND ESCUTCHEON.	UNIT: ACORN MODEL 1709FG-W-1-0.125 GPF-FVBO-ADA-SW OR EQUAL BY METCRAFT, WILLOUGHBY, ACORN, BRADLEY, OR APPROVED EQUAL. FLUSH VALVE: SLOAN ROYAL PRISON MODEL 195-0.125-10-3/4-LDIM-L OR EQUAL BY DELANEY, ZURN, OR APPROVED EQUAL.	–

NOTES:
(1) SEE ARCHITECTURAL ELEVATIONS FOR COMPONENT MOUNTING HEIGHTS.
(2) MOUNT FAUCET 48" ABOVE FINISHED FLOOR.
(3) PROVIDE A GRID DRAIN IN ALL PUBLIC RESTROOMS.
(4) WATER CLOSET SHALL MEET ADA HEIGHT REQUIREMENTS WITH SEAT INSTALLED.
(5) PROVIDE BOLT TO THE FLOOR STYLE CAST IRON CARRIERS FOR ALL WALL MOUNTED FIXTURES.
(6) ALL WASTE PIPING AND HOT WATER PIPING BELOW HANDICAPPED SINKS SHALL BE INSULATED WITH TRUEBRO COVERS OR APPROVED EQUAL.
(7) PROVIDE A WATER TEMPERATURE LIMITING DEVICE COMPLYING WITH ASSE 1070 ON THE HOT WATER INLET FOR ALL PUBLIC LAVATORY FAUCETS. SEE DETAIL 7/P0.2.
(8) ALL FLUSHING CONTROLS SHALL BE ON THE "WIDE" OR "OPEN" SIDE OF THE TOILET AREA PER LOCAL ACCESSIBILITY CODES.
(9) WATER CLOSETS MUST BE CAPABLE OF AT LEAST REMOVING 800 GRAMS PER FLUSH BASED ON MAXIMUM PERFORMANCE (MAP) OF TOILET FIXTURES BY VERITEC CONSULTING, INC. AND KOELLER CO.

PLUMBING SPECIALTY FIXTURE SCHEDULE

TAG	DESCRIPTION	CONNECTIONS CW	HW	S/W	HEIGHT	WATER USE	SPECIFICATION	MODEL
FD1	FLOOR DRAIN	–	–	2",3",4"	–	–	BODY MATERIAL: CAST IRON OUTLET: INSIDE CAULK COVER MATERIAL: NICKEL BRONZE COVER SHAPE: ROUND	FIXTURE: J.R. SMITH MODEL 2005 SERIES OR EQUAL BY JOSAM, WADE, J.R. SMITH, OR ZURN.
FD2	FLOOR DRAIN	–	–	3",4",6"	–	–	BODY MATERIAL: CAST IRON OUTLET: INSIDE CAULK COVER MATERIAL: NICKEL BRONZE COVER SHAPE: ROUND	FIXTURE: J.R. SMITH MODEL 2320 SERIES OR EQUAL BY JOSAM, WADE, J.R. SMITH, OR ZURN.
FCO	FLOOR CLEANOUT	–	–	2",4"	–	–	COVER MATERIAL: NICKEL BRONZE COVER SHAPE: ROUND	FIXTURE: J.R. SMITH MODEL 4020 SERIES OR EQUAL BY JOSAM, WADE, J.R. SMITH, OR ZURN.
WCO	WALL CLEANOUT	–	–	2",4"	–	–	COVER MATERIAL: NICKEL BRONZE COVER SHAPE: ROUND	FIXTURE: J.R. SMITH MODEL 4402 SERIES OR EQUAL BY JOSAM, WADE, J.R. SMITH, OR ZURN.
PCO	PINNED CLEANOUT	–	–	0'-4"	–	–	COVER MATERIAL: BRASS COVER SHAPE: ROUND	FIXTURE: METCRAFT 16556 OR ENGINEER APPROVED EQUAL.
PCH	PINNED CLEANOUT W/ HOOK	–	–	4"	–	–	COVER MATERIAL: BRASS COVER SHAPE: ROUND	FIXTURE: METCRAFT 28293 OR ENGINEER APPROVED EQUAL.
NFWH	NON-FREEZE WALL HYDRANT	3/4"	–	–	–	–	FIXTURE: 1/4 TURN NON-FREEZE WALL-HYDRANT, CONCEALED TYPE, W/ INTEGRAL VACUUM BREAKER AND 3/4" HOSE CONNECTION.	FIXTURE: WOODFORD MODEL B65 OR APPROVED EQUAL.
NFYH	NON-FREEZE YARD HYDRANT	3/4"	–	–	–	–	FIXTURE: LEVER HANDLE NON-FREEZE YARD-HYDRANT, BELOW GRADE DRAIN, W/ INTEGRAL VACUUM BREAKER AND 3/4" HOSE CONNECTION.	FIXTURE: WOODFORD MODEL Y34 OR APPROVED EQUAL.
BV	BALANCING VALVE	3/4"	–	–	–	–	FIXTURE: CIRCUIT SOLVER SELF-BALANCING VALVES WITH INTEGRATED CHECK VALVE AND ISOLATION SHUT-OFF VALVES FOR STANDARD FLOW APPLICATIONS.	FIXTURE: THERMOMEGATECH CIRCUIT SOLVER UNION ASSEMBLY (CSUA) OR APPROVED EQUAL.
TP	TRAP PRIMER VALVE	1/2"	–	–	–	–	FIXTURE: TRAP PRIMER WITH INTERNAL VACUUM BREAKER AND INTEGRAL BACKFLOW PREVENTER. SUPPLY WITH DISTRIBUTION UNIT. MAX 4 FLOOR DRAINS/FLOOR SINKS PER TRAP PRIMER. COORDINATE WITH MECHANICAL PLUMBING DRAWINGS FOR QUANTITY OF FLOOR DRAINS/FLOOR SINKS TO ENSURE ALL FLOOR DRAINS AND FLOOR SINKS ARE EQUIPPED WITH TRAP PRIMER.	FIXTURE: PRECISION PLUMBING PRODUCTS PR-500 OR ENGINEER APPROVED EQUAL.

FIXTURE SCHEDULE GENERAL NOTES:
A. SPECIFICATIONS AND FIXTURE MODEL NUMBERS ARE A GENERAL GUIDE ONLY AND THE MODEL NUMBER MAY NOT REFLECT ALL FEATURES, ACCESSORIES, SIZE, OR MINIMUM OR MAXIMUM ALLOWABLE DIMENSIONS OF THE REQUIRED PRODUCT.
B. FEATURES OF THE FIXTURE MODEL TO BE PROVIDED BY THE CONTRACTOR SHALL BE VERIFIED WITH THE DESCRIPTIONS GIVEN IN THIS SCHEDULE AND WITH THE ARCHITECTURAL AND/OR INTERIOR DESIGN DRAWINGS.
C. CONTRACTOR SHALL NOTIFY ENGINEER IF ANY DISCREPANCIES OF FIXTURE REQUIREMENTS, DESCRIPTIONS, SIZES, DIMENSIONS, OR MODEL NUMBER EXIST BETWEEN THE ARCHITECTURAL, INTERIORS, AND PLUMBING DRAWINGS PRIOR TO SUBMITTING BID.
D. BY SUBMITTING A BID FOR THIS PROJECT, THE CONTRACTOR IS CERTIFYING THAT ALL FIXTURES INCLUDED IN THEIR BID PACKAGE HAVE BEEN VERIFIED TO COMPLY WITH THE GENERAL PERFORMANCE REQUIREMENTS OF THIS SCHEDULE AND THAT ALL INCLUDED FIXTURE DIMENSIONS HAVE BEEN COORDINATED WITH THE ARCHITECTURAL DRAWINGS.
E. CONTRACTOR SHALL COORDINATE THE LOCATION AND SIZE OF ALL COUNTER MOUNTED FIXTURES WITH ARCHITECTURAL DRAWINGS AND CABINET FABRICATOR.
F. LOW LEAD VERSIONS OF ALL FIXTURES SHALL BE USED WHEN OFFERED BY THE MANUFACTURER AS AN OPTION.
G. THE TERM "APPROVED OTHER" OR "APPROVED EQUAL", WHERE USED IN THIS SCHEDULE, SHALL MEAN AN ENGINEER APPROVED ALTERNATE MANUFACTURER AND MODEL.

GAS WATER HEATER SCHEDULE

MARK	LOCATION	TYPE	INPUT MBTUH	RECOVERY (100°F TEMP. RISE)	NOMINAL STORAGE GALLONS	OUTLET TEMPERATURE	MIXING VALVE TEMPERATURE(S)	BASIS OF DESIGN	NOTES
WH1	MECHANICAL 186	CONDENSING WATER HEATER	199	235 GPH	100	140°F	105°F & 120°F	A.O. SMITH BTH-199 OR ENGINEER APPROVED EQUAL	(1)(2)(3)(4)(5)
WH2	MECHANICAL 186	CONDENSING WATER HEATER	199	235 GPH	100	140°F	105°F & 120°F	A.O. SMITH BTH-199 OR ENGINEER APPROVED EQUAL	(1)(2)(3)(4)(5)
WH3	MECHANICAL 186	CONDENSING WATER HEATER	199	235 GPH	100	140°F	105°F & 120°F	A.O. SMITH BTH-199 OR ENGINEER APPROVED EQUAL	(1)(2)(3)(4)(5)
WH4	MECHANICAL 187	CONDENSING WATER HEATER	199	235 GPH	100	140°F	105°F & 120°F	A.O. SMITH BTH-199 OR ENGINEER APPROVED EQUAL	(1)(2)(3)(4)(5)
WH5	MECHANICAL 187	CONDENSING WATER HEATER	199	235 GPH	100	140°F	105°F & 120°F	A.O. SMITH BTH-199 OR ENGINEER APPROVED EQUAL	(1)(2)(3)(4)(5)
WH6	MECHANICAL 187	CONDENSING WATER HEATER	199	235 GPH	100	140°F	105°F & 120°F	A.O. SMITH BTH-199 OR ENGINEER APPROVED EQUAL	(1)(2)(3)(4)(5)

NOTES:
(1) WATER HEATER MUST BE HIGH EFFICIENCY, CONDENSING, AND CAPABLE OF DIRECT VENTING WITH PVC/CPVC PIPING FOR BOTH THE INTAKE AND EXHAUST.
(2) WATER HEATER SHALL COME WITH FLOW CONTROL AND LOW WATER FLOW SAFETY CONTROL AND INDICATION.
(3) PROVIDE A WATER HEATER MANUFACTURER AUTHORIZED REPRESENTATIVE AT WATER HEATER STARTUP TO CERTIFY WATER HEATER OPERATION AND ESTABLISH SET POINTS AND SAFETY SETTINGS (PRESSURE RELIEF, LOW WATER, HIGH TEMP, ETC.)
(4) WATER HEATER MUST BE AT LEAST 94% THERMAL EFFICIENT.
(5) ACCEPTABLE EQUAL MANUFACTURERS ARE A.O.SMITH, BRADFORD WHITE, LOCKINVAR, PVI, OR STATE.

PLUMBING CIRCULATION PUMP SCHEDULE

MARK	SERVICE	TYPE	GPM	HP	HEAD	RPM	BASIS OF DESIGN
HWCP-1	HOT WATER CIRCULATING PUMP	IN-LINE	9.1 GPM	1/6	10 PSI	3450	B&G ECOCIRC XL_36-45 OR APPROVED EQUAL
HWCP-2	HOT WATER CIRCULATING PUMP	IN-LINE	5 GPM	1/6	10 PSI	3450	B&G ECOCIRC XL_36-45 OR APPROVED EQUAL
HWCP-3	HOT WATER CIRCULATING PUMP	IN-LINE	4.2 GPM	1/6	10 PSI	3450	B&G ECOCIRC XL_36-45 OR APPROVED EQUAL
HWCP-4	HOT WATER CIRCULATING PUMP	IN-LINE	2.8 GPM	1/6	10 PSI	3450	B&G ECOCIRC XL_36-45 OR APPROVED EQUAL
HWCP-5	HOT WATER CIRCULATING PUMP	IN-LINE	2.1 GPM	1/6	10 PSI	3450	B&G ECOCIRC XL_36-45 OR APPROVED EQUAL
HWCP-6	HOT WATER CIRCULATING PUMP	IN-LINE	18.4 GPM	1/6	10 PSI	3450	B&G ECOCIRC XL_36-45 OR APPROVED EQUAL
HWCP-7	HOT WATER CIRCULATING PUMP	IN-LINE	5 GPM	1/6	10 PSI	3450	B&G ECOCIRC XL_36-45 OR APPROVED EQUAL
HWCP-8	HOT WATER CIRCULATING PUMP	IN-LINE	4.2 GPM	1/6	10 PSI	3450	B&G ECOCIRC XL_36-45 OR APPROVED EQUAL
HWCP-9	HOT WATER CIRCULATING PUMP	IN-LINE	9.3 GPM	1/6	10 PSI	3450	B&G ECOCIRC XL_36-45 OR APPROVED EQUAL
HWCP-10	HOT WATER CIRCULATING PUMP	IN-LINE	2.1 GPM	1/6	10 PSI	3450	B&G ECOCIRC XL_36-45 OR APPROVED EQUAL
HWCP-11	HOT WATER CIRCULATING PUMP	IN-LINE	2.8 GPM	1/6	10 PSI	3450	B&G ECOCIRC XL_36-45 OR APPROVED EQUAL

PLUMBING HOUSING PIPING SCHEDULE

SERVICE	LOCATION	MATERIAL	NOTES
SOIL, WASTE, & VENT	ALL	SCH. 40 PVC	(1)
DOMESTIC WATER	IN WATER HEATER ROOM	COPPER	(2)(4)
DOMESTIC WATER (2" AND OVER)	ALL (EXCEPT WHERE INDICATED)	CPVC (CORZAN)	(2)(3)(4)
DOMESTIC WATER (UNDER 2")	ALL (EXCEPT WHERE INDICATED)	CPVC (CORZAN) OR PEX	(2)(3)(4)(5)
GAS	ABOVE GROUND	SCH. 40 BLACK STEEL	–
GAS	BELOW GROUND	POLYETHYLENE (PE)	–

NOTES:
(1) FOAM CORE PVC IS NOT ACCEPTABLE.
(2) GALVANIZED STEEL PIPE IS NOT ACCEPTABLE.
(3) ALL CPVC PIPE IN A SINGLE BUILDING MUST BE OF THE SAME BRAND. FLOWGUARD GOLD AND CORZAN PIPE ARE AN EXCEPTION TO THIS BRANDED FLOWGUARD GOLD AND CORZAN PIPE FROM MULTIPLE MANUFACTURERS MAY BE USED WITHIN THE SAME BUILDING. DIFFERENT BUILDINGS ON THE SAME SITE MAY USE DIFFERENT MANUFACTURER'S PIPE.
(4) ALL HOT WATER AND HOT WATER RECIRCULATION PIPE MUST BE INSULATED REGARDLESS OF PIPE MATERIAL. INSULATION SHALL HAVE A CONDUCTIVITY BETWEEN 0.21-0.28 BTUXIN/(HXFT²X°F). INSULATION SHALL BE 1" THICK FOR PIPE UP TO AND INCLUDING 11/2" PIPE SIZE. INSULATION SHALL BE 11/2" FOR PIPE SIZES 2" AND LARGER. CONSULT WITH THE LOCAL INSPECTOR FOR CLARIFICATION AND INTERPRETATION.
(5) PEX PIPING MUST BE PROTECTED FROM DAMAGE AND NOT EXPOSED IN A MECHANICAL ROOM, SERVICE AREA, OR ANY OTHER LOCATION. USE PLENUM RATED PEX PIPE WHEN PIPE IS INSTALLED IN PLENUMS

PLUMBING SUBMITTALS

A. ALL MATERIALS AND EQUIPMENT WHICH THE CONTRACTOR PROPOSES TO FURNISH SHALL BE SUBMITTED FOR REVIEW. UNLESS INDICATED OTHERWISE IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROVIDE A MINIMUM OF FOUR (4) COPIES OF THEIR SUBMITTAL PACKAGE FOR REVIEW. SUBMITTALS SHALL CONFORM TO THE FOLLOWING PRESENTATION REQUIREMENTS OR FACE REJECTIONS WITHOUT REVIEW:
   1. SUBMITTALS MUST BE BOUND IN A THREE RING BINDER THAT LEAVES ALL PORTIONS OF THE PAGE VISIBLE. THE COVER SHALL CLEARLY INDICATE IN THIS ORDER THE FOLLOWING: THE NAME OF THE PROJECT, ADDRESS OF THE PROJECT, THE ENGINEERS JOB NUMBER, THE WORDS "PLUMBING SUBMITTALS", THE DATE OF THE SUBMITTAL, NAME AND PHONE NUMBER OF THE PLUMBING CONTRACTOR, AND THE NAME AND PHONE NUMBER FOR THE GENERAL CONTRACTOR. THE FIRST INSIDE PAGE OF SUBMITTAL MUST REPEAT ALL INFORMATION SHOWN ON THE COVER.
   2. EACH SECTION LISTED UNDER ITEM "F" BELOW MUST BE INDICATED IN A TABLE OF CONTENTS AND ALL SECTIONS MUST BE SEPARATED WITH TABBED DIVIDER SHEETS.
   3. ALL ITEMS MUST BE MARKED TO INDICATE WHICH FIXTURE, EQUIPMENT, OR DEVICE THE SUBMITTAL SHEET IS MEANT TO REPRESENT. THESE MARKS MUST MATCH THOSE ON THE DRAWINGS AND MAY NOT BE CHANGED OR THE ENTIRE PACKAGE WILL BE REJECTED. FIXTURES MUST BE LISTED IN THE ORDER THEY APPEAR IN THE FIXTURE SCHEDULE SHOWN ON THE DRAWINGS.
   4. ALL ITEMS MUST COME TOGETHER IN ONE PACKAGE AT THE SAME TIME. SEPARATE SUBMITTALS FOR FIXTURES AND EQUIPMENT ARE NOT ACCEPTABLE. INCOMPLETE SUBMITTALS WILL BE REJECTED.
   5. ALL OPTIONS AND/OR FINISHES ON ALL EQUIPMENT AND FIXTURES MUST BE CLEARLY MARKED ON THE SUBMITTAL SHEET. A MODEL NUMBER LISTING ON A COVER SHEET IS NOT AN ACCEPTABLE SUBSTITUTE FOR MARKING THE ACTUAL SUBMITTAL SHEET AND WILL RESULT IN A REJECTION.
   6. ELECTRICAL DATA FOR POWERED EQUIPMENT MUST BE INDICATED ON THE SUBMITTAL SHEETS FOR THAT ITEM.

B. SUBMITTAL REVIEW IS CONSIDERED AS GENERAL ACCEPTANCE OF THE BASIC APPLICABILITY OF THE EQUIPMENT. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE EQUIPMENT AND/OR ALTERNATE ARRANGEMENT OF THE EQUIPMENT WITHIN A GIVEN SPACE. WHEN THE CONTRACTOR DESIRES TO USE SUBSTITUTED EQUIPMENT, HE SHALL BE RESPONSIBLE FOR PRODUCING HIS OWN COORDINATED WORK DRAWINGS WHICH DEPICT THE SUBSTITUTED EQUIPMENT ACCOMMODATED IN THE SPACE. WHERE THE SUBSTITUTED EQUIPMENT CREATES THE NEED FOR ALTERATIONS IN ANY PORTION OF THE WORK DEPICTED IN THE CONTRACT DOCUMENTS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL OF THE AFFECTED PARTIES AND COORDINATE THESE ITEMS WITH ALL OTHER TRADES. FURTHER, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASSUME ANY ADDITIONAL COST TO THE CONTRACT CREATED BY THE SUBSTITUTED EQUIPMENT.

C. SUBSTITUTED EQUIPMENT IS CONSIDERED TO BE ANY EQUIPMENT OTHER THAN THE FIRST NAMED ITEM IN THE SPECIFICATIONS OR ON THE DRAWINGS. THE CONTRACTOR SHALL CLEARLY INDICATE IN A LETTER THAT ACCOMPANIES THE SHOP DRAWINGS ANY DEVIATIONS FROM SPECIFIED ITEMS. IF DEVIATIONS FROM THE SPECIFIED ITEMS ARE NOT MADE CLEAR, THE CONTRACTOR WILL REPLACE THESE ITEMS AT THEIR EXPENSE WITH THE SPECIFIED ITEMS SHOULD ANY CONFLICTS WITH THE SUBSTITUTED ITEMS ARISE OR IF THE OWNER DEEMS THAT THE SUBSTITUTED ITEMS ARE NOT ACCEPTABLE.

D. CONTRACTOR FURTHER AGREES THAT IF DEVIATIONS, DISCREPANCIES OR CONFLICTS BETWEEN SHOP DRAWINGS AND SPECIFICATIONS ARE DISCOVERED EITHER PRIOR TO OR AFTER SHOP DRAWING SUBMITTALS ARE PROCESSED BY THE ENGINEER, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED. REVIEW OF SUBMITTAL DATA SHALL IN NO WAY RELIEVE THE CONTRACTOR OF HIS DUTY TO PERFORM ALL WORK AND PROVIDE ALL EQUIPMENT IN STRICT COMPLIANCE WITH THE REQUIREMENTS SET FORTH IN THE CONTRACT DOCUMENTS.

E. SUBMITTALS SHALL NOT BE MADE IN CONJUNCTION WITH ANY OTHER SYSTEMS OTHER THAN PLUMBING.

F. SUBMIT FOR REVIEW COMPLETE DATA AND DRAWINGS ON THE FOLLOWING ITEMS:
   1. BACKFLOW PREVENTERS
   2. CLEANOUTS
   3. DRAINS
   4. FIXTURES, FAUCETS, TRAPS, DRAINS, ETC.
   5. INSULATION
   6. PIPING
   7. PRESSURE GAUGES
   8. PRESSURE REDUCING VALVES
   9. T&P RELIEF VALVES
   10. VACUUM BREAKERS
   11. VALVES
   12. WATER HEATERS

PLUMBING ADMIN PIPING SCHEDULE

SERVICE	LOCATION	MATERIAL	NOTES
SOIL & WASTE	ALL	SCH. 40 PVC	(1)
VENT	ALL	NO HUB CAST IRON	–
DOMESTIC WATER (2" AND OVER)	ALL (EXCEPT WHERE INDICATED)	CPVC (CORZAN)	(2)
DOMESTIC WATER (UNDER 2")	ALL (EXCEPT WHERE INDICATED)	CPVC (FLOWGUARD GOLD) OR PEX	(2)
GAS	ABOVE GROUND	SCH. 40 BLACK STEEL	–
GAS	BELOW GROUND	POLYETHYLENE (PE)	–

NOTES:
(1) FOAM CORE PVC IS NOT ACCEPTABLE.
(2) GALVANIZED STEEL PIPE IS NOT ACCEPTABLE.
(3) ALL CPVC PIPE IN A SINGLE BUILDING MUST BE OF THE SAME BRAND. FLOWGUARD GOLD AND CORZAN PIPE ARE AN EXCEPTION TO THIS BRANDED FLOWGUARD GOLD AND CORZAN PIPE FROM MULTIPLE MANUFACTURERS MAY BE USED WITHIN THE SAME BUILDING. DIFFERENT BUILDINGS ON THE SAME SITE MAY USE DIFFERENT MANUFACTURER'S PIPE.
(4) ALL HOT WATER AND HOT WATER RECIRCULATION PIPE MUST BE INSULATED REGARDLESS OF PIPE MATERIAL. INSULATION SHALL HAVE A CONDUCTIVITY BETWEEN 0.21-0.28 BTUXIN/(HXFT²X°F). INSULATION SHALL BE 1" THICK FOR PIPE UP TO AND INCLUDING 11/2" PIPE SIZE. INSULATION SHALL BE 11/2" FOR PIPE SIZES 2" AND LARGER. CONSULT WITH THE LOCAL INSPECTOR FOR CLARIFICATION AND INTERPRETATION.
(5) PEX PIPING MUST BE PROTECTED FROM DAMAGE AND NOT EXPOSED IN A MECHANICAL ROOM, SERVICE AREA, OR ANY OTHER LOCATION. USE PLENUM RATED PEX PIPE WHEN PIPE IS INSTALLED IN PLENUMS

PLUMBING LEGEND

SYMBOL	MARK	DESCRIPTION
	S OR W	SOIL OR WASTE PIPE BELOW SLAB
	S OR W	SOIL OR WASTE PIPE ABOVE SLAB
	(E)S OR (E)W	EXISTING SOIL OR WASTE PIPE BELOW SLAB
	(E)S OR (E)W	EXISTING SOIL OR WASTE PIPE ABOVE SLAB
	V	VENT PIPE
	(E)V	EXISTING VENT PIPE
	CW	COLD WATER PIPE
	(E)CW	EXISTING COLD WATER PIPE
	HW	HOT WATER PIPE
	HWR	HOT WATER RECIRCULATING PIPE
	#"G	GAS PIPE
	(E)#"G	EXISTING GAS PIPE
		PIPING TO BE DEMO'D
	FD#	FLOOR DRAIN
	FS	FLOOR SINK
	CO	CLEANOUT
	WCO	WALL CLEANOUT
	BV	BALL VALVE
	BV	BALANCING VALVE
	WHA	WATER HAMMER ARRESTOR
	CKV	CHECK VALVE
	STR	STRAINER
	U	UNION
	NFWH	NON-FREEZE WALL HYDRANT
	HB	HOSE BIBB
	AAV	AIR ADMITTANCE VALVE
	AFF	ABOVE FINISH FLOOR
	A/C	ABOVE CEILING
	B/S	BELOW SLAB
	B/F	BELOW FLOOR
	B/G	BELOW GROUND
	N.C.	NORMALLY CLOSED
	VTR	VENT THRU ROOF

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Valdosta, Georgia 31602
P.(229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

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Atlanta, GA 30350
Telephone: 770.650.9061 Fax: 770.642.2410
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NEWBERRY, SOUTH CAROLINA

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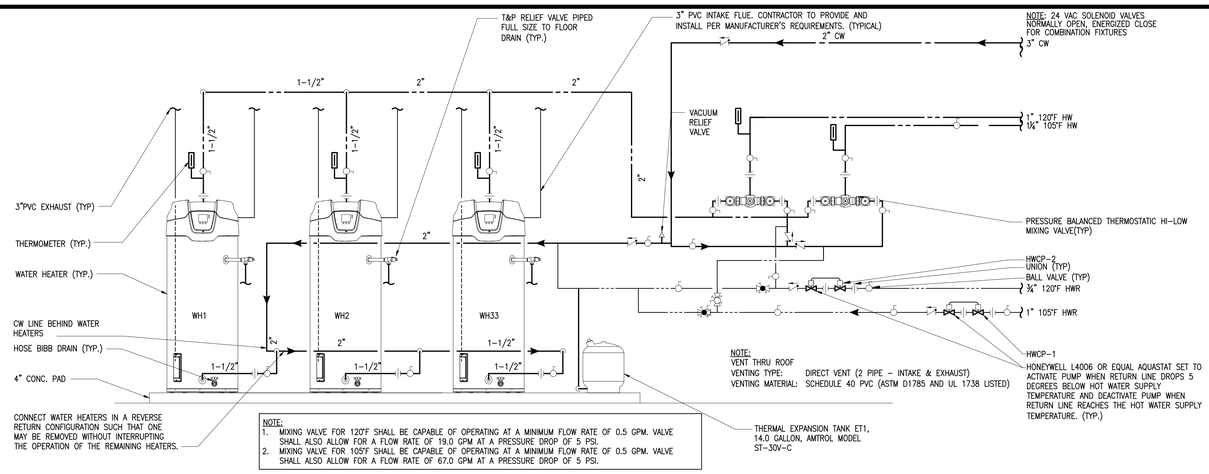
SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 32993 CLAY D. FREELS
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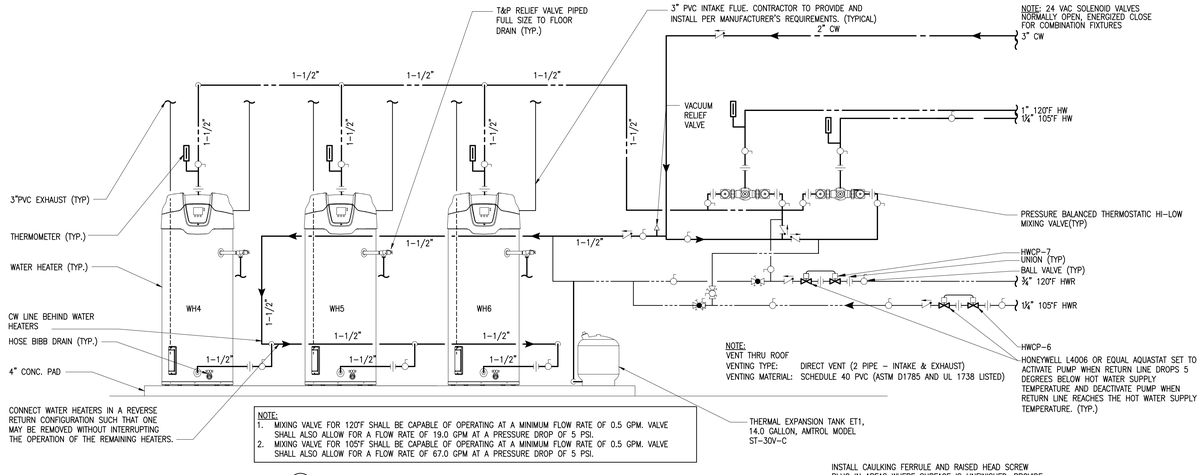
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REV.	REV.
REV.	REV.

PLUMBING
SPECIFICATIONS, SCHEDULES, AND LEGEND

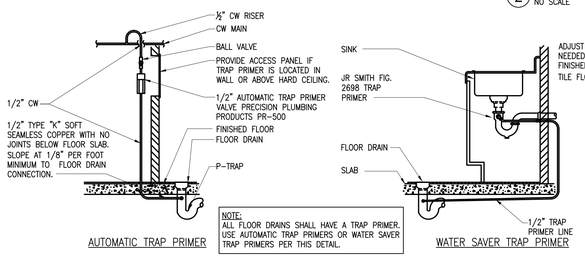
P0.1



1 WATER HEATER & MIXING VALVE PIPING DETAIL
NO SCALE



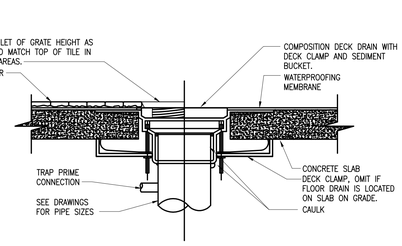
2 WATER HEATER & MIXING VALVE PIPING DETAIL
NO SCALE



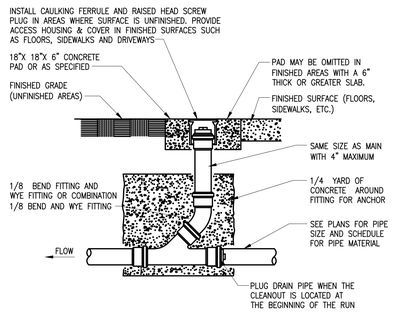
AUTOMATIC TRAP PRIMER

WATER SAVER TRAP PRIMER

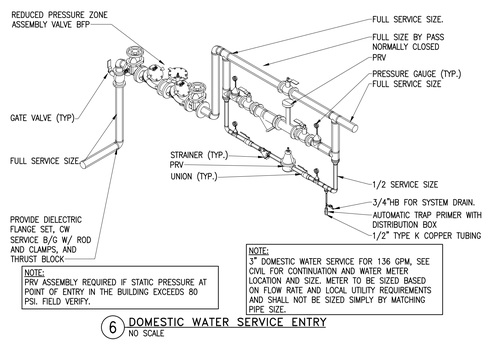
3 TRAP PRIMER DETAIL
NO SCALE



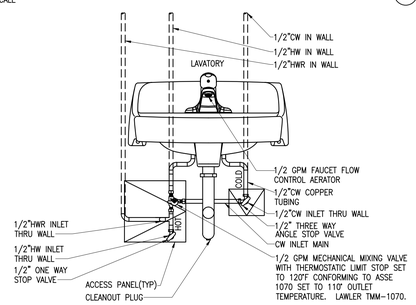
4 FLOOR DRAIN DETAIL
NO SCALE



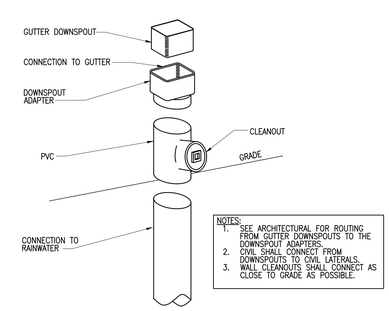
5 FLOOR/GRADE CLEANOUT DETAIL
NO SCALE



6 DOMESTIC WATER SERVICE ENTRY
NO SCALE



7 PUBLIC LAVATORY PIPING DETAIL
NO SCALE

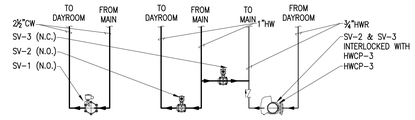


8 DOWNSPOUT ADAPTER DETAIL
NO SCALE

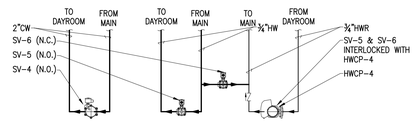
SEQUENCE OF OPERATIONS FOR SOLENOIDS

CONTACTS		VALVES		INTERLOCKED PUMPS	
CONTACT NUMBER	CONTACT STATE	VALVE NAME	VALVE STATE	PUMP NAME	PUMP STATE
1	OPEN	SV1	CLOSED	–	–
	CLOSED		OPEN		
2	OPEN	SV2	CLOSED	HWCP-3	OFF
	CLOSED		OPEN		ON
	OPEN	SV3	OPEN		OFF
	CLOSED		CLOSED		ON
3	OPEN	SV4	CLOSED	–	–
	CLOSED		OPEN		
4	OPEN	SV5	CLOSED	HWCP-4	OFF
	CLOSED		OPEN		ON
	OPEN	SV6	OPEN		OFF
	CLOSED		CLOSED		ON
5	OPEN	SV7	CLOSED	–	–
	CLOSED		OPEN		
6	OPEN	SV8	CLOSED	HWCP-5	OFF
	CLOSED		OPEN		ON
	OPEN	SV9	OPEN		OFF
	CLOSED		CLOSED		ON
7	OPEN	SV10	CLOSED	–	–
	CLOSED		OPEN		
8	OPEN	SV11	CLOSED	HWCP-8	OFF
	CLOSED		OPEN		ON
	OPEN	SV12	OPEN		OFF
	CLOSED		CLOSED		ON
9	OPEN	SV13	CLOSED	–	–
	CLOSED		OPEN		
10	OPEN	SV14	CLOSED	HWCP-9	OFF
	CLOSED		OPEN		ON
	OPEN	SV15	OPEN		OFF
	CLOSED		CLOSED		ON
11	OPEN	SV16	CLOSED	–	–
	CLOSED		OPEN		
12	OPEN	SV17	CLOSED	HWCP-10	OFF
	CLOSED		OPEN		ON
	OPEN	SV18	OPEN		OFF
	CLOSED		CLOSED		ON
13	OPEN	SV19	CLOSED	–	–
	CLOSED		OPEN		
14	OPEN	SV20	CLOSED	HWCP-11	OFF
	CLOSED		OPEN		ON
	OPEN	SV21	OPEN		OFF
	CLOSED		CLOSED		ON

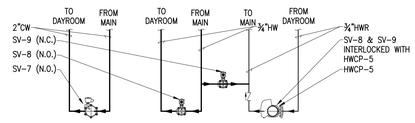
UPON USER CONTROLLED CHANGE OF STATE OF THE INDICATED CONTACT, THE CORRESPONDING SOLENOID VALVE SHALL OPEN OR CLOSE AND THE HOT WATER CIRCULATION PUMP, IF PRESENT, SHALL TURN ON OR OFF, AS INDICATED IN THE SEQUENCE OF OPERATION SCHEDULE.



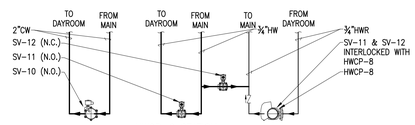
HWCP-3 STATION



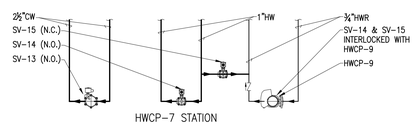
HWCP-4 STATION



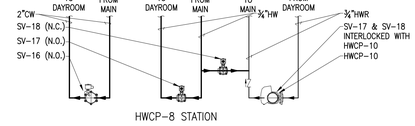
HWCP-5 STATION



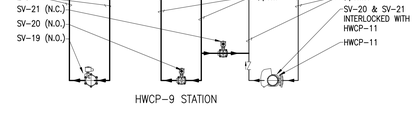
HWCP-6 STATION



HWCP-7 STATION



HWCP-8 STATION



HWCP-9 STATION

9 SOLENOID VALVE PIPING DETAIL
NO SCALE

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2722 North Oak Street
Valdosta, Georgia 31602
P.(229) 244-1188
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No. 4128
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 32993
REGISTERED
RAY D. FREELS
PROFESSIONAL ENGINEER

07/12/2024

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CHECKED	CDF
JOB #	220006.01
DATE	07/12/2024

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REV.		REV.	

PLUMBING DETAILS

P0.2

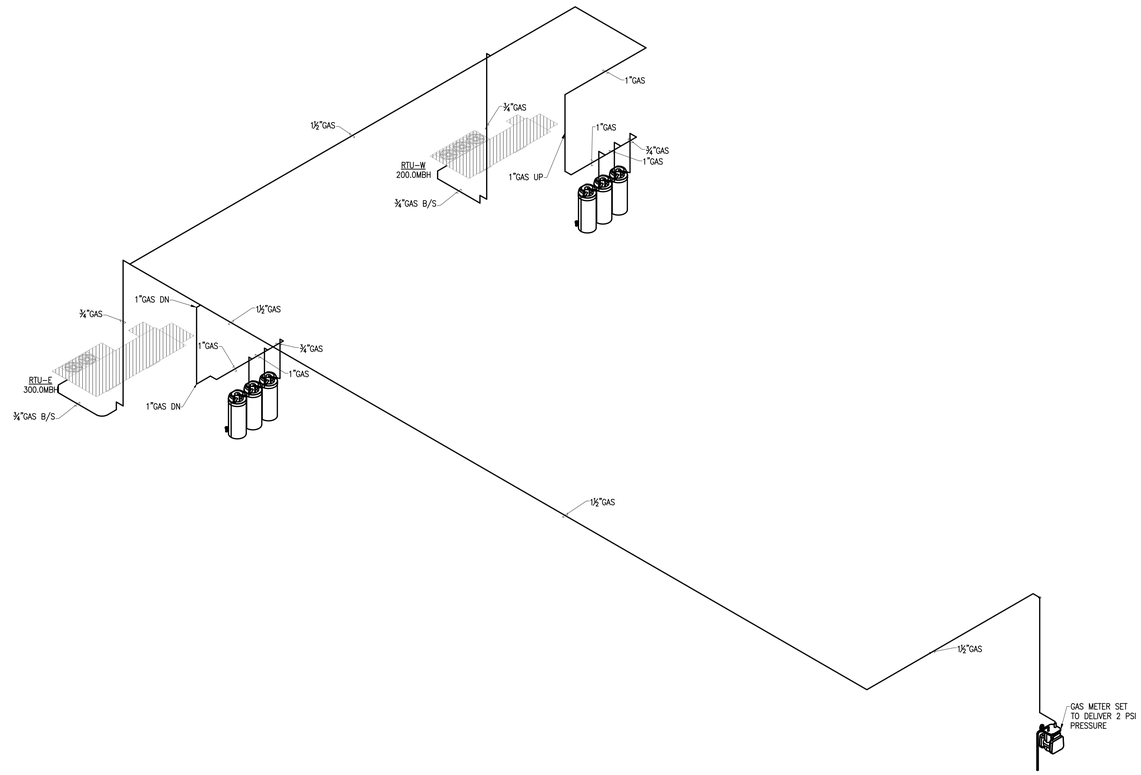
GAS APPLIANCE LOAD SCHEDULE

TAG	APPLIANCE TYPE	SERVICE TYPE	COUNT	DEMAND (MBH)	LOAD (MBH)
WH1-6	WATER HEATER	WATER HEATING	6	199	1,194
RTU-W	WATER HEATER	WATER HEATING	1	200	200
RTU-E	WATER HEATER	WATER HEATING	1	300	300
			TOTAL GAS LOAD (MBH)		1,694

GAS SERVICE DESIGN SCHEDULE

GAS PIPE DESIGN IS BASED ON THE PARAMETERS LISTED BELOW. THE CONTRACTOR SHALL OBTAIN SERVICE FROM THE LOCAL GAS UTILITY FOR THE TOTAL GAS LOAD SHOWN IN THE GAS APPLIANCE SCHEDULE AT THE DELIVERY PRESSURE INDICATED.

GAS METER DELIVERY PRESSURE	2	PSI
TOTAL PRESSURE DROP	1	PSI
TOTAL DEVELOPED LENGTH	600	FEET
PIPE SIZED USING TABLE/SOURCE	402.4(5)	IFGC



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P.(229) 244-1188
info@s8darchitects.com
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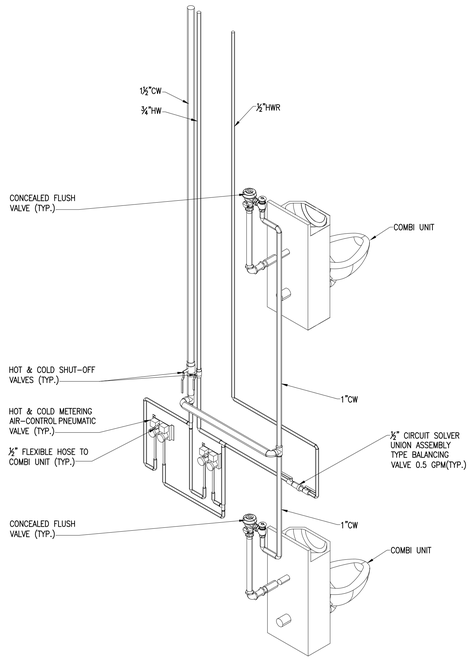
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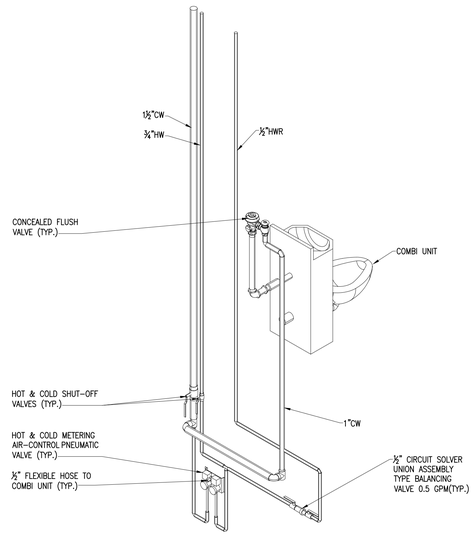
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REV.		REV.	
REV.		REV.	

PLUMBING
GAS SHEET

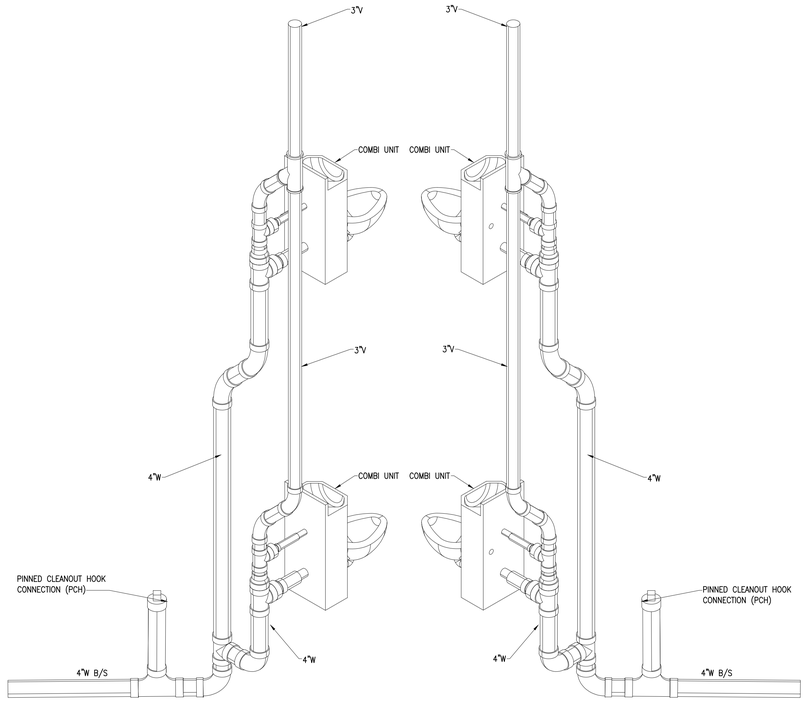
P0.3



1 STACKED COMBO FIXTURES WATER DETAIL
NO SCALE

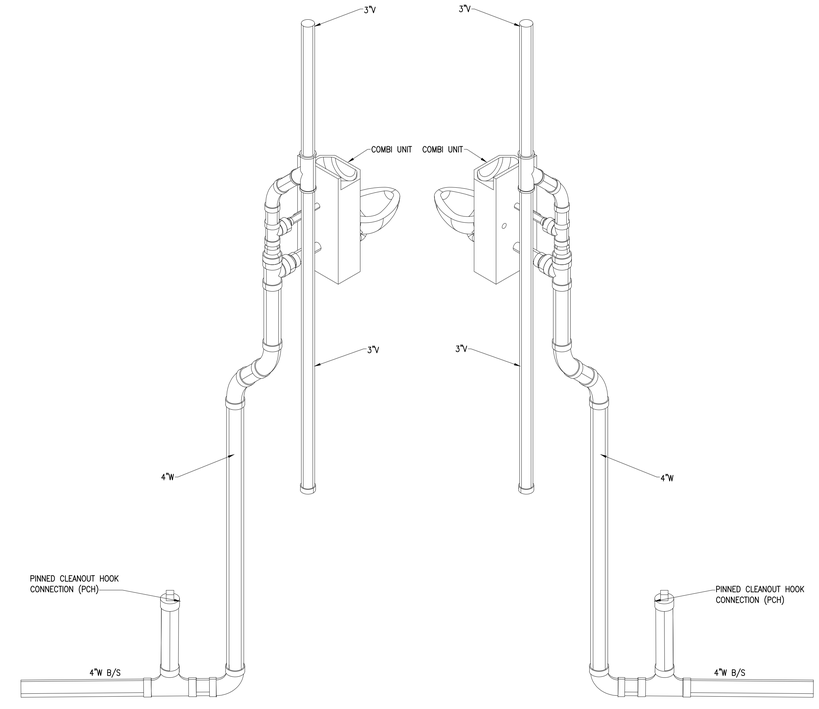


2 SECOND LEVEL COMBO FIXTURE WATER DETAIL
NO SCALE



3 STACKED COMBO FIXTURES S,W,&V DETAIL
NO SCALE

4 STACKED COMBO FIXTURES S,W,&V DETAIL
NO SCALE



5 SECOND LEVEL COMBO FIXTURE S,W,&V DETAIL
NO SCALE

6 SECOND LEVEL COMBO FIXTURE S,W,&V DETAIL
NO SCALE

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Valdosta, Georgia 31602
P. (229) 244-1188
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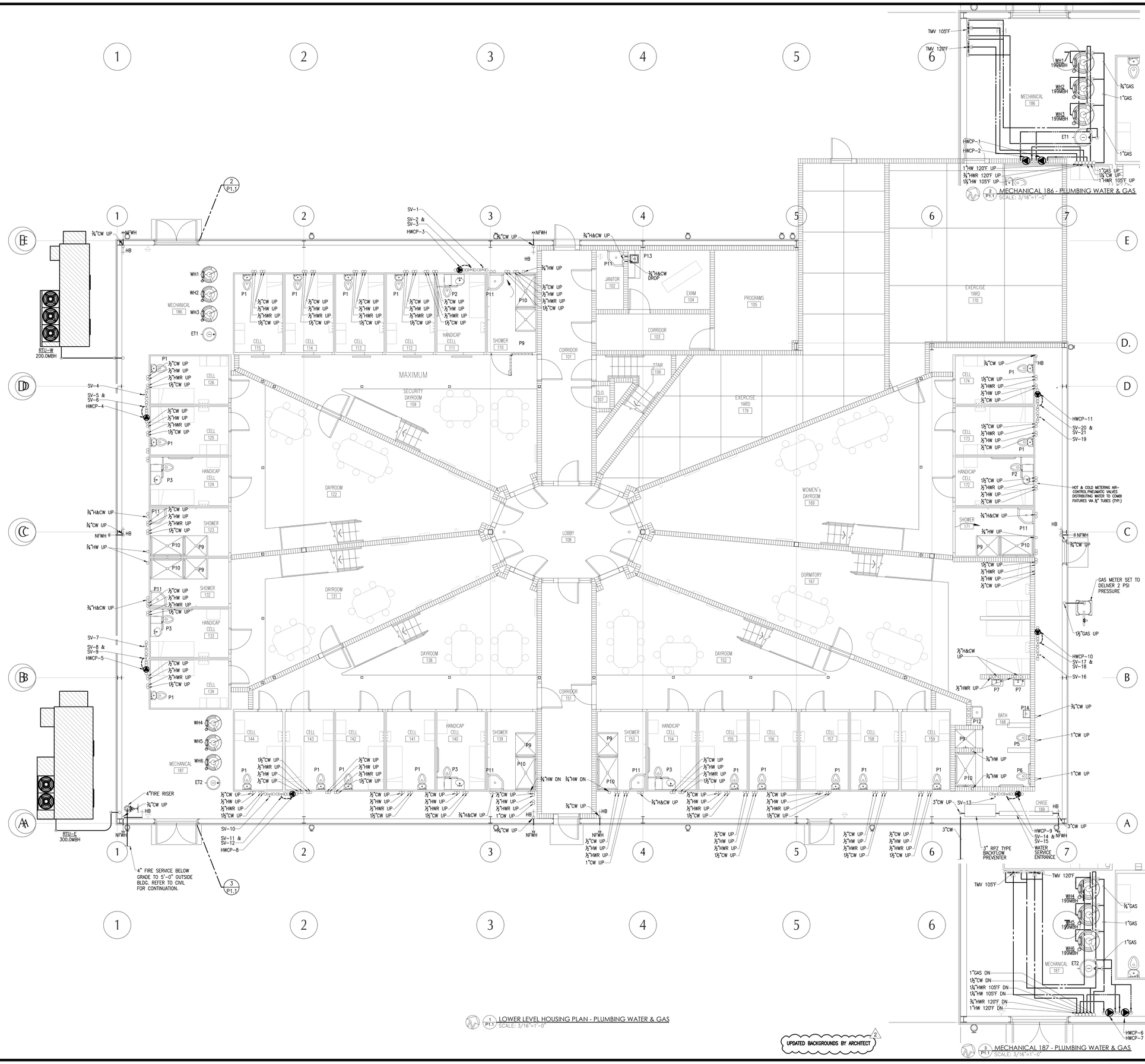
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LICENSED PROFESSIONAL ENGINEER
No. 32993
CLAY D. FREELS
07/12/2024

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PLUMBING DETAILS

P0.4



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SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 32983 — CLAY D. FRIES
05/30/2025

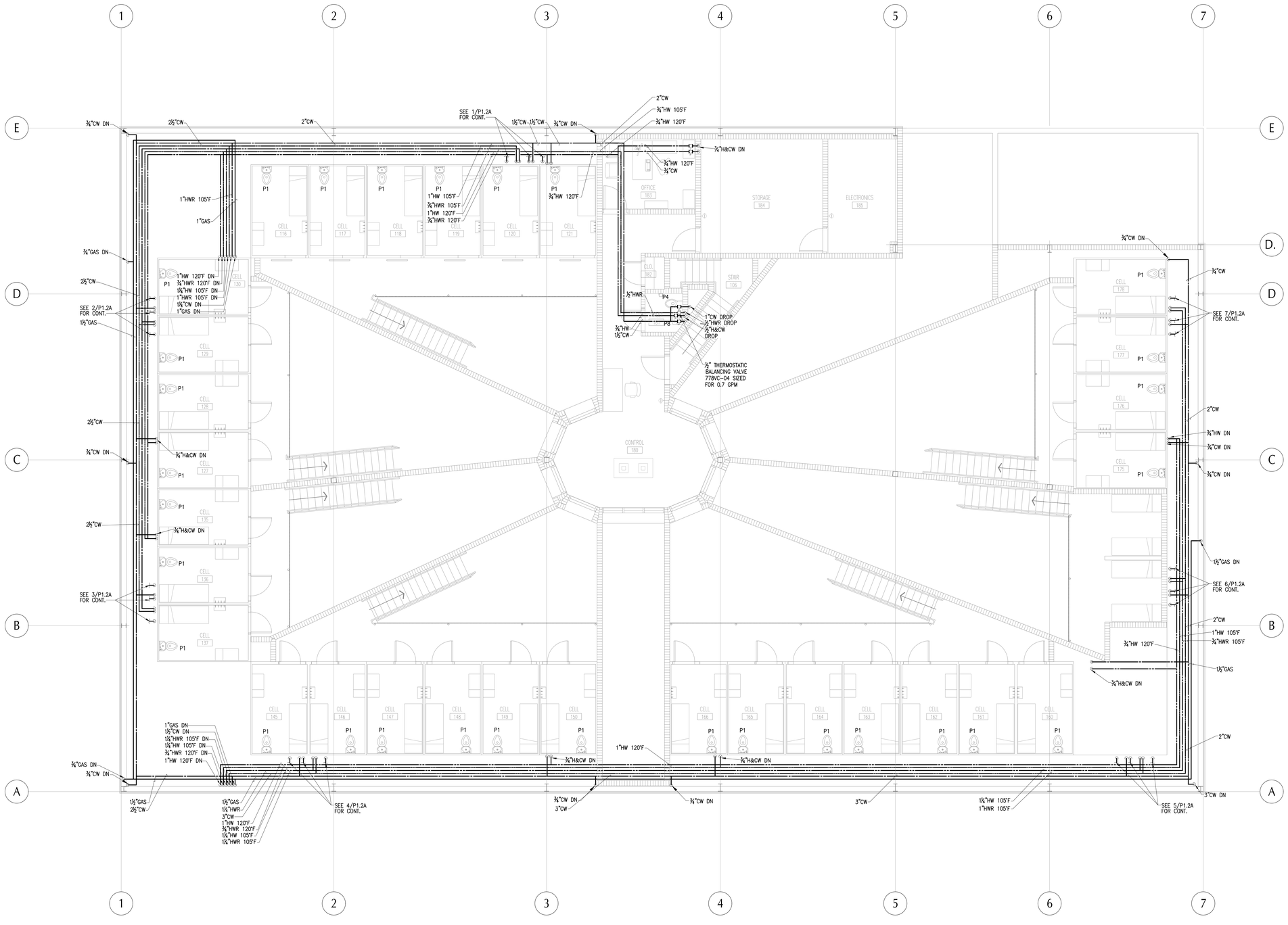
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REV.	REV.
REV.	REV.

HOUSING LOWER PLAN - PLUMBING - WATER & GAS

P1.1



UPPER LEVEL HOUSING PLAN - PLUMBING WATER & GAS
SCALE: 3/16"=1'-0"

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Valdosta, Georgia 31602
P. (229) 244-1188
info@s8darchitects.com
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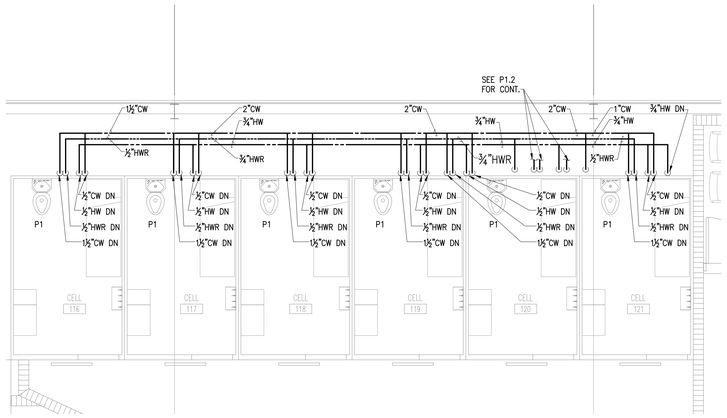
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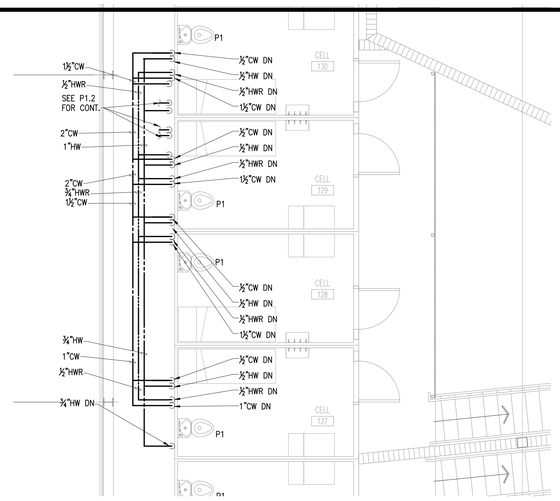
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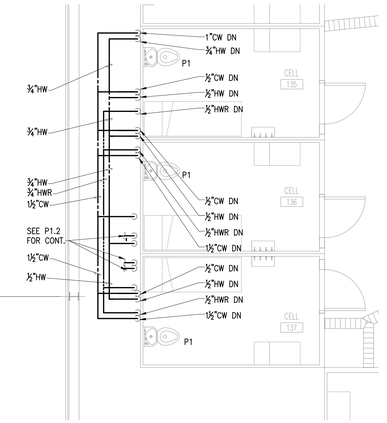
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REV.		REV.	
REV.		REV.	

HOUSING UPPER PLAN - PLUMBING - WATER & GAS

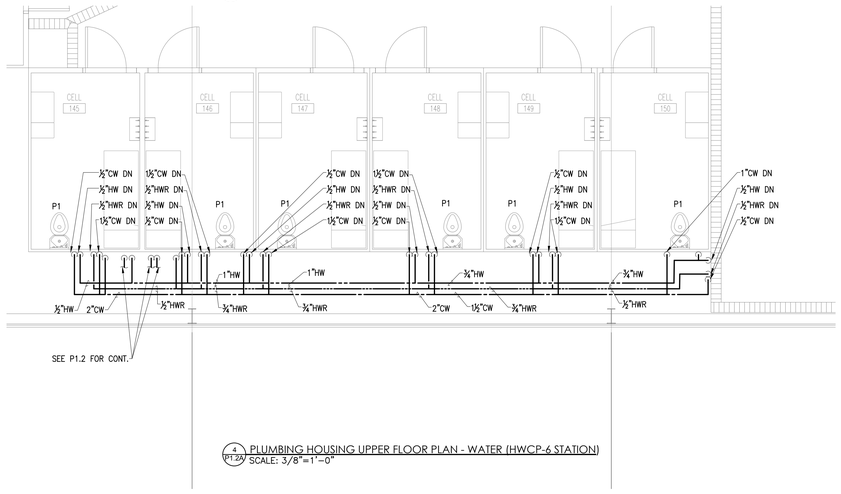
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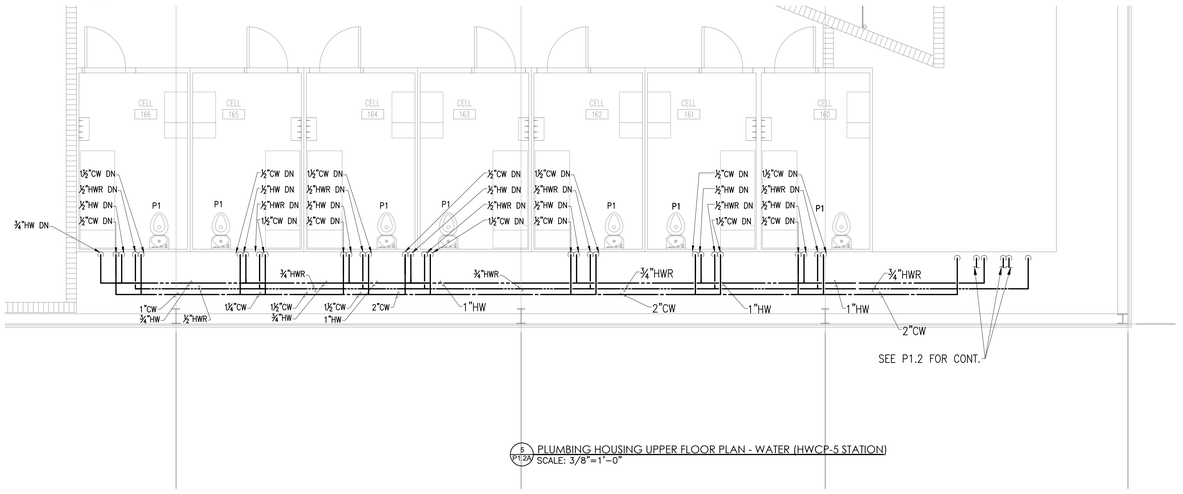




1 P1.2A PLUMBING HOUSING UPPER FLOOR PLAN - WATER (HWCP-3 STATION)
SCALE: 3/8"=1'-0"



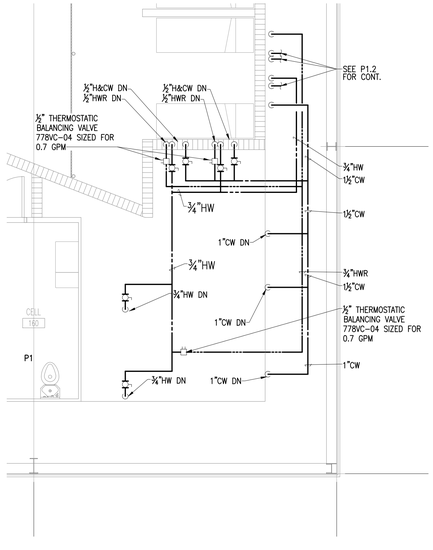
2 P1.2A PLUMBING HOUSING UPPER FLOOR PLAN - WATER (HWCP-4 STATION)
SCALE: 3/8"=1'-0"



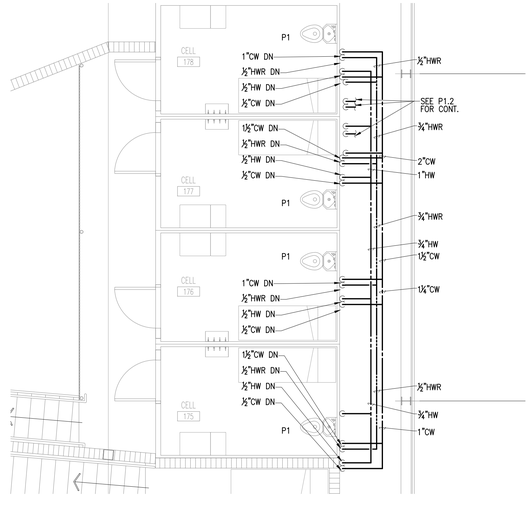
3 P1.2A PLUMBING HOUSING UPPER FLOOR PLAN - WATER (HWCP-5 STATION)
SCALE: 3/8"=1'-0"

4 P1.2A PLUMBING HOUSING UPPER FLOOR PLAN - WATER (HWCP-6 STATION)
SCALE: 3/8"=1'-0"

5 P1.2A PLUMBING HOUSING UPPER FLOOR PLAN - WATER (HWCP-5 STATION)
SCALE: 3/8"=1'-0"



6 P1.2A PLUMBING HOUSING UPPER FLOOR PLAN - WATER (HWCP-5 STATION)
SCALE: 3/8"=1'-0"



7 P1.2A PLUMBING HOUSING UPPER FLOOR PLAN - WATER (HWCP-5 STATION)
SCALE: 3/8"=1'-0"

STUDIO8 design
architecture
2722 North Oak Street
Valdosta, Georgia 31602
P.(229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

Phillips Gradick Engineering, P.C.
8215 Roswell Road, Suite 925
Atlanta, GA 30350
Telephone: 770.650.9061 Fax: 770.642.2410
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A HOUSING FACILITY FOR
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NEWBERRY, SOUTH CAROLINA

SOUTH CAROLINA PHILLIPS GRADICK ENGINEERING, PC. No. 4128 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 32983 REGISTERED PROFESSIONAL ENGINEER CLAY D. FREELS

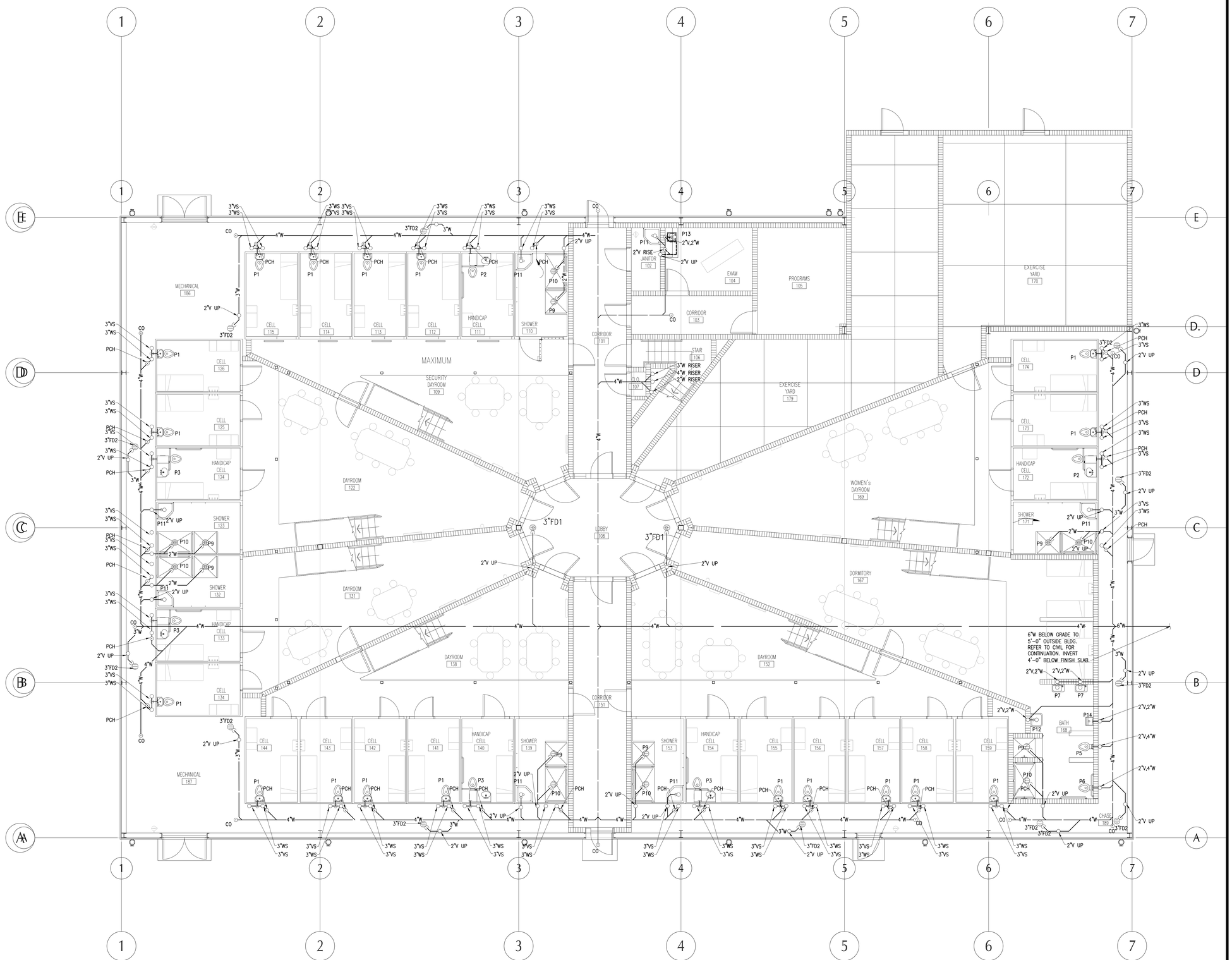
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REV.		REV.	
REV.		REV.	
REV.		REV.	

PLUMBING HOUSING UPPER FLOOR PLAN - WATER

P1.2A



1 P2.1 LOWER LEVEL HOUSING PLAN - PLUMBING S,W,&V
SCALE: 3/16"=1'-0"

UPDATED BACKGROUNDS BY ARCHITECT 2

STUDIO8 design architecture
2722 North Oak Street
Valdosta, Georgia 31602
P.(229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

Phillips Gradick Engineering, P.C.
8215 Roswell Road, Suite 925
Atlanta, GA 30350
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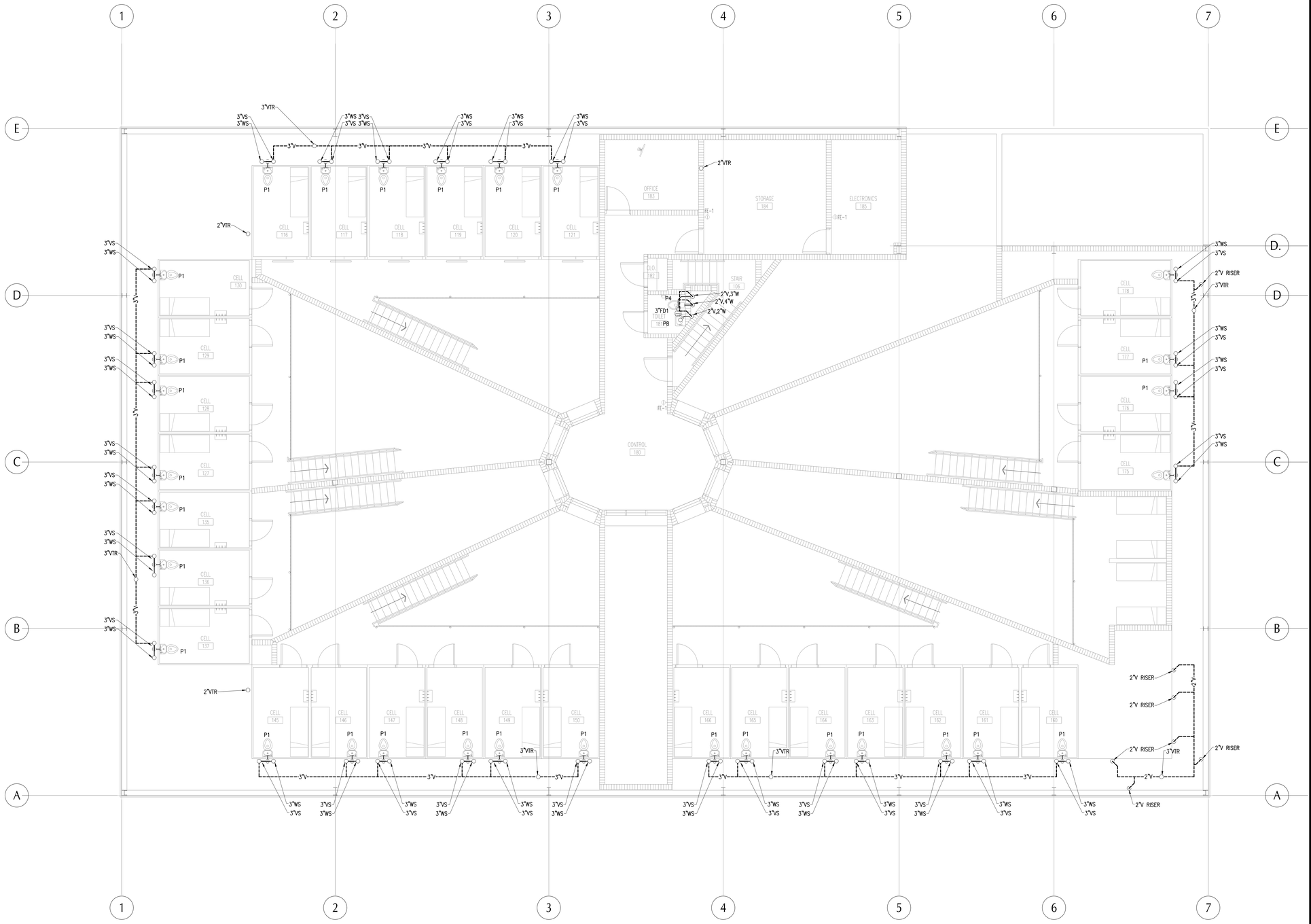
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REV. 2	CODE COMPLIANCE REV. MAY 30, 2025	REV.	
REV.	BID SET 25 JUNE, 2025	REV.	
REV.		REV.	
REV.		REV.	

HOUSING LOWER PLAN - PLUMBING - S,W,&V

P2.1



1 P2.2 UPPER LEVEL HOUSING PLAN - PLUMBING S,W,&V
SCALE: 3/16"=1'-0"

STUDIO8 design
architecture
2722 North Oak Street
Valdosta, Georgia 31602
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SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 32982 RAY D. FREELS

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REV.		REV.	
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REV.		REV.	

HOUSING UPPER PLAN - PLUMBING - S,W,&V

P2.2

HVAC SYMBOLS

SYMBOL	DESCRIPTION
	CEILING MTD RA GRD
	CEILING MTD EA GRD
	CEILING MTD SA GRD
	RA DUCT TURNING UP
	RA DUCT TURNING DOWN
	EA DUCT TURNING UP
	EA DUCT TURNING DOWN
	SA DUCT TURNING UP
	SA DUCT TURNING DOWN
W/H	OVAL DUCT (WIDTH/HEIGHT)
WxH	RECT. DUCT (WIDTHxHEIGHT)
#ø	RECT. DUCT (INSIDE DIAMETER)
	LINED DUCTWORK
	INSULATED DUCTWORK
	RECT. DUCT ELBOW WITH TURNING VANES
	FLEX DUCT
	DUCT TAKEOFF WITH SPIN–IN FITTING
BDD	BACKDRAFT DAMPER
BRD	BAROMETRIC RELIEF DAMPER
SD	DUCT SMOKE DETECTOR
	CEILING RADIATION DAMPER
FD	FIRE DAMPER, FD
FSD	FIRE/SMOKE DAMPER, FSD
	MANUAL VOLUME DAMPER, MVD
M	MOTORIZED DAMPER
	SMOKE DAMPER
	SIDEWALL SA GRILLE
	SIDEWALL EA/RA GRILLE
&	AND
@	AT
ø	DIAMETER
#	NUMBER / POUND (LB)
%	PERCENT
	HVAC EQUIPMENT
H	HUMIDISTAT
T	THERMOSTAT, T'STAT, DDC CONTROLLER
SS	SPACE TEMPERATURE SENSOR
HOA	HAND–OFF–AUTO (HOA) SWITCH
C/N	CO $_2$/NO$_x$ SENSOR
U.C. 1/2"	UNDERCUT DOOR 1/2"
PS	DUCT PRESSURE SENSOR
P	SPACE PRESSURE SENSOR
#	KEYED NOTE TAG
	CONNECT TO EXISTING
#	DRAWING REVISION TAG
A 8ø 200 CFM	GRD TAG: TYPE, NECK SIZE, AIRFLOW
	ITEMS UNDER HATCHING TO BE DEMOLISHED

HVAC ABBREVIATIONS

#, LB(S)	POUND(S)
#, NO.	NUMBER
(E)	EXISTING
°F	DEGREES FARENHEIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHRI	AIR–CONDITIONING, HEATING & REFRIGERATION INSTITUTE
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
ARCH	ARCHITECT
ARI	AMERICAN REFRIGERATION INSTITUTE
ASHRAE	AMERICAN SOCIETY OF HEATING & REFRIGERATION ENGINEERS
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
BTUh	BRITISH THERMAL UNIT PER HOUR
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CO	CARBON MONOXIDE
CO.	COMPANY
CO2	CARBON DIOXIDE
COP	COEFFICIENT OF PERFORMANCE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CRD	CEILING RADIATION DAMPER
CTG	CEILING TRANSFER GRILLE
CU	CONDENSING UNIT
db	DRY BULB TEMPERATURE
dBA	A–WEIGHTED DECIBELS
DP,ΔP	PRESSURE DIFFIERENTIAL
DWG	DRAWING
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EEF	EFFICIENCY
EER	ENERGY EFFICIENCY RATIO
ELEC	ELECTRIC/ELECTRICAL
ESP	EXTERNAL STATIC PRESSURE
EX	EXHAUST
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FPM	FEET PER MINUTE
FSD	COMBINATION FIRE/SMOKE DAMPER
FT	FEET
GA	GAUGE
GPM	GALLONS PER MINUTE
GRD	GRILLES, REGISTERS, DIFFUSERS
H.P.	HEAT PUMP
HP	HORSEPOWER
HSPF	HEATING SEASONAL PERFORMANCE FACTOR
IBC	INTERNATIONAL BUILDING CODE
IECC	INTERNATIONAL ENERGY CONSERVATION CODE
IFGC	INTERNATIONAL FUEL GAS CODE

HVAC ABBREVIATIONS

IMC	INTERNATIONAL MECHANICAL CODE
IN.	INCH
INT	INTERNAL
IPC	INTERNATIONAL PLUMBING CODE
IRC	INTERNATIONAL RESIDENTIAL BUILDING CODE
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
MA	MIXED AIR
MAX	MAXIMUM
MBH	1,000 BTUh
MCA	MINIMUM CIRCUIT AMPS
MIN.	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MOD	MOTOR OPERATED DAMPER
MTD	MOUNTED
MA	MAKEUP AIR
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NAIMA	NORTH AMERICAN INSULATION MANUFACTURERS ASSOCIATION
NIS	NOT IN SCOPE
NK	NECK
NTS	NOT TO SCALE
O.C.	ON CENTER
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
RAG	RETURN AIR GRILLE
RECT.	RECTANGULAR
RH	RELATIVE HUMIDITY
RLA	RELIEF AIR
RR	RESTROOM
RS/L	REFRIGERANT SUCTION/LIQUID LINES
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SD	SMOKE DETECTOR (OR SMOKE DAMPER DEPENDING ON USE)
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SENS.	SENSIBLE
SF, SQ.FT.	SQUARE FEET
SMACNA	SHEET METAL & AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SP	STATIC PRESSURE
TA	TRANSFER AIR
UL	UNDERWRITER'S LABORATORY
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
W.C.	WATER COLUMN
W.G.	WATER GAUGE
wb	WET BULB TEMPERATURE
WxLxH	WIDTH x LENGTH x HEIGHT

MECHANICAL DRAWING INDEX

SHEET NO.	SHEET TITLE	DATE LAST ISSUED/UPDATED
M0.1	HVAC NOTES AND LEGENDS	
M0.2	HVAC SCHEDULES	
M0.3	HVAC DETAILS	
M0.4	HVAC DETAILS	
M1.1	HOUSING LOWER PLAN - HVAC	
M1.2	HOUSING UPPER PLAN - HVAC	

APPLICABLE CODES

MECHANICAL CODE:	2021 INTERNATIONAL MECHANICAL CODE
ENERGY EFFICIENCY CODE:	2009 INTERNATIONAL ENERGY CONSERVATION CODE

HVAC GENERAL NOTES

1. THIS SET OF DRAWINGS IS SCHEMATIC IN NATURE AND IS NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. PROVIDE A COMPLETE AIR CONDITIONING SYSTEM WITH ALL NECESSARY EQUIPMENT, ACCESSORIES AND CONTROLS, ENTIRELY COORDINATED WITH ALL DISCIPLINES. CONFORM TO ALL PARAMETERS GIVEN IN THESE DOCUMENTS METICULOUSLY. ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE HVAC SYSTEM IN ACCORDANCE WITH ALL APPLICABLE STANDARDS, CODES AND THIS PACKAGE OF CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE CONTRACT. CAREFULLY STUDY ALL THE CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE SUBMITTING THE SHOP DRAWINGS AND SUBMITTALS. REVIEW SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.

2. MECHANICAL EQUIPMENT AND INSTALLATIONS SHALL CONFORM WITH THE REQUIREMENTS OF THE INTERNATIONAL MECHANICAL CODE, THE INTERNATIONAL BUILDING CODE, THE STATE ENERGY CODE, AND ALL APPLICABLE CODES AND ORDINANCES.

3. PRIOR TO PURCHASING MATERIALS OR STARTING WORK, CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS. VERIFY DUCTWORK SIZES, DUCTWORK LOCATIONS, EQUIPMENT SIZES, EQUIPMENT LOCATIONS, VOLTAGES, ETC. SHOWN ON THE DRAWINGS OR CONDITIONS AFFECTING THIS WORK. REPORT ANY DEVIATIONS TO THE ARCHITECT.

4. ALL WORK SHALL BE COORDINATED AND PERFORMED WITH PRIOR APPROVAL FROM THE OWNER TO SUIT THEIR OPERATING CONDITIONS.
CONTRACTOR SHALL COORDINATE THE INSTALLATION OF MECHANICAL EQUIPMENT, DUCTWORK, ETC. TO FIT WITHIN THE SPACE ALLOWED BY THE ARCHITECTURAL AND STRUCTURAL CONDITIONS. CUTTING OR OTHERWISE ALTERING ANY STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT.

5. ANY EXISTING WALL, FLOOR, OR CEILING SURFACE THAT IS DISTURBED DURING THE COURSE OF THE HVAC WORK SHALL BE REPAIRED TO MATCH NEW AND/OR EXISTING CONDITIONS.

6. ALL ROOF ASSOCIATED WORK SHALL BE DONE BY THE OWNER'S APPROVED ROOFING CONTRACTOR. COORDINATE WITH THE OWNER PRIOR TO START OF WORK. ALL ROOF–TOP EQUIPMENT CURBS SHALL BE A MINIMUM OF 8 INCHES ABOVE THE FINISHED ROOF SURFACE FOR COUNTER–FLASH ENDORSED BY THE ROOF MANUFACTURER. THE TOPS OF ALL EQUIPMENT CURBS AND HOUSEKEEPING PADS SHALL BE LEVEL. ALL MISCELLANEOUS ROOF–TOP EQUIPMENT SUPPORTS SHALL BE ENDORSED BY BOTH THE RESPECTIVE EQUIPMENT MANUFACTURER AND THE ROOF SYSTEM MANUFACTURER. ALL TIE–DOWNS AND ANCHORING SYSTEMS SHALL MEET THE REQUIREMENTS SET FORTH IN THE INTERNATIONAL MECHANICAL AND BUILDING CODES.

7. INSTALL OUTDOOR AIR CONDITIONING EQUIPMENT AS SHOWN IN DETAIL. UNO, INSTALL GRADE MOUNTED OUTDOOR AIR CONDITIONING EQUIPMENT LEVEL ON CONCRETE PADS. CONCRETE PADS SHALL BE MINIMUM 3000# WITH WIRE MESH REINFORCEMENT AND 6" LARGER THAN UNIT ON ALL SIDES. ALL CORNERS SHALL BE COMFERED AND ALL EXPOSED–TO–VIEW SURFACES DRESSED SMOOTH. CONCRETE PAD SHALL BE 6" THICK MINIMUM FOR RTU'S AND 4" THICK MINIMUM FOR DUCTLESS SPLITS.

8. CONTRACTOR SHALL PROVIDE TEMPORARY PROTECTIVE COVERS FOR EXPOSED AIR TERMINALS AND COOLING COILS ON MECHANICAL EQUIPMENT DURING CONSTRUCTION.

9. LABEL EQUIPMENT WITH BLACK STENCILED LETTERING ON A WHITE BACKGROUND OR USE BAKELITE LETTERING ON A DIFFERENT COLOR BACKGROUND. MINIMUM 2" LETTERING. LABEL RTUs ON BOTH LONG SIDES.

10. HVAC EQUIPMENT SUBMITTALS SEE NOTES ON THIS SHEET FOR SUBMITTAL AND RESUBMITTAL REQUIREMENTS.

11. THE MECHANICAL CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR AND ELECTRICAL CONTRACTOR THAT A FACE TO FACE MEETING IS REQUIRED BETWEEN ELECTRICAL AND MECHANICAL CONTRACTORS PRIOR TO ORDERING AND INSTALLING EQUIPMENT TO COORDINATE VOLTAGE, PHASE, AMPS, AND OTHER ELECTRICAL CHARACTERISTICS OF MECHANICAL EQUIPMENT. AFTER THIS MEETING HAS OCCURRED THE GENERAL CONTRACTOR SHALL PROVIDE NOTICE IN WRITING THAT THIS MEETING HAS OCCURRED AND ANY DISCREPANCIES HAVE BEEN RESOLVED.

12. FOR UL LISTED EQUIPMENT, CONTRACTOR SHALL SUBMIT AN ADDITIONAL REVIEW TO THE ARCHITECT TO CONFIRM THAT THE EQUIPMENT BEING SUBMITTED IS UL LISTED FOR THE APPLICABLE UL ASSEMBLIES AS LISTED ON THE ARCHITECT'S DRAWINGS.

13. IF THE CONTRACTOR REQUESTS THE ENGINEER'S CAD DRAWINGS OR IF THE DRAWINGS ARE REQUESTED BY OTHERS TO BE USED BY CONTRACTOR (FOR AS–BUILTS, COORDINATION, ETC.), DRAWINGS SENT OUT (BY THE ENGINEER) WILL BE OF FLOOR PLANS AND SECTIONS, BUT WILL NOT HAVE DETAILS, GENERAL NOTES, SCHEDULES, OR OTHER ITEMS DEEMED PROPRIETARY BY THE ENGINEER.

14. CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF MECHANICAL EQUIPMENT WITH ELECTRICAL DRAWINGS PRIOR TO ISSUING HVAC EQUIPMENT SUBMITTALS OR SHOP DRAWINGS OR ORDERING EQUIPMENT, AND CONTRACTOR SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN ON THE ELECTRICAL DRAWINGS.

15. MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH DISCONNECT SWITCHES AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE (FUSED OR NON–FUSED) WITH MANUFACTURER'S RECOMMENDATIONS, AND ELECTRICAL DRAWINGS.

16. INCLUDE CONTROL WIRING AS A PART OF THE MECHANICAL WORK UNLESS SHOWN ON THE ELECTRICAL DRAWINGS. CONTROL WIRING, INCLUDING THERMOSTAT WIRING, SHALL BE PLENUM RATED (MEETING THE 25/50 FLAME AND SMOKE DEVELOPED RATING OF ASTM E84).

17. CONTROLS FOR THERMOSTATS CONTROLLING MOTOR OPERATED DAMPERS AND FANS CAN BE EITHER 120 V OR 24 V. PROVIDE CONTROL TRANSFORMER WHERE REQUIRED. INSTALL 120 V WIRING IN CONDUIT. ROUTE WIRING IN WALLS WHERE AVAILABLE.

18. INSTALL MECHANICAL EQUIPMENT ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. NO MECHANICAL EQUIPMENT, PIPING, OR DUCTWORK SHALL BE LOCATED ABOVE OR WITHIN 42" OF ELECTRICAL SWITCHBOARDS, PANELBOARDS, OR LOAD CENTERS.

19. GUARANTEE MECHANICAL EQUIPMENT AND SYSTEMS FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY OWNER. ALL GUARANTEES COMMENCE ON PROJECT DATE OF SUBSTANTIAL COMPLETION. ALL GUARANTEES FULLY COVER THE COSTS OF MATERIALS & LABOR FOR REPAIR AND/OR REPLACEMENT WITHIN THE GUARANTEE PERIOD.

20. PROVIDE HVAC COMPRESSORS WITH AN EXTENDED 5–YEAR MANUFACTURER'S WARRANTY.

21. RIGID SHEET METAL DUCT: UNLESS NOTED OTHERWISE, ALL DUCTWORK SHALL BE CONSTRUCTED CONSTRUCTED AND INSTALLED PER THE GUIDELINES OF SMACNA, 2005 EDITION. UNLESS NOTED OTHERWISE, ALL DUCTWORK SHALL BE GALVANIZED SHEETMETAL NOT LESS THAN 30 GAGE (0.016 INCHES) WITH A ZINC COATING DESIGNATION OF G60 OR GREATER. DUCTS AND EQUIPMENT SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE. DUCT SUPPORTS AND ATTACHMENTS TO STRUCTURE SHALL BE PER SMACNA STANDARDS. ALL JOINTS AND SEAMS IN ALL DUCTWORK SHALL BE SEALED WITH DUCT SEALER, UL LISTED 181A OR 181B FOR TAPES AND MASTICS. DO NOT USE DUCT TAPE.

DUCT SHALL BE CONSTRUCTED TO THE FOLLOWING CRITERIA: SEAL CLASS B

A) SUPPLY DUCT: +2"
B) GENERAL EXHAUST: +2" OR –2" DEPENDING ON LOCATION OF FAN

22. PROVIDE SECURITY BARS FOR ANY OPENING IN A SECURITY WALL OR CEILING THAT WILL PASS A 6"ø BALL, SEE DETAIL. SEE GRILLES AND DIFFUSERS SCHEDULE FOR TAMPERPROOF/SUICIDE PROOF SUPPLY DIFFUSERS AND RETURN/EXHAUST GRILLES. SEE DIFFUSER SCHEDULE FOR SECURITY BAR REQUIREMENTS BEHIND DIFFUSERS AND GRILLES INSTALLED IN SECURITY WALLS OR CEILINGS.

23. ALL HARDWARE WITHIN INMATE AREAS SHALL HAVE TAMPERPROOF FASTENERS (TORX HEAD WITH CENTER PIN), EITHER GALVANIZED OR STAINLESS STEEL.

24. SHEETMETAL DUCT ELBOWS SHALL BE STANDARD RADIUS TYPE OR RECTANGULAR TYPE WITH SINGLE THICKNESS TURNING VANES. DO NOT USE RADIUS ELBOWS WITH A SQUARE THROAT. DO NOT USE TURNING VANES ON RETURN, EXHAUST, OR OA DUCT ELBOWS UNLESS NOTED OR SPECIFICALLY SHOWN ON THE DRAWINGS. INSTEAD USE STANDARD RADIUS ELBOWS.

25. EXPOSED DUCTWORK IN SPACES WITHOUT CEILINGS SHALL BE FREE OF SIZE MARKS OR ASSEMBLY CODE NUMBERS; ALL SUCH MARKS SHALL BE ON THE INSIDE OF THE DUCTWORK. DURING FABRICATION AND ASSEMBLY, KEEP THE OUTSIDE SURFACES CLEAN. BANDS SHALL JOIN ON THE TOP (CONCEALED FROM NORMAL VIEW) OF THE DUCT AND SPIRALS SHALL BE CONTINUOUS. THREADED RODS FOR HANGER STRAPS SHALL BE NEATLY CLIPPED AND SECURED WITHOUT EXCESS. GREATER ATTENTION TO APPEARANCE IN SPACES WITHOUT CEILINGS IS EXPECTED AND DENTED/SCARRED DUCT WILL NOT BE ACCEPTABLE. IF DUCTWORK IS SPECIFIED TO BE PAINTED (CONFIRM WITH ARCH/ID PRIOR TO ORDERING), PROVIDE PAINT–GRIP FINISH. IF PROVIDED, SEE SPIRAL DUCT NOTES FOR ADDITIONAL REQUIREMENTS.

26. ROUND AND FLEXIBLE DUCTWORK SHALL BE CONNECTED TO MAIN DUCTS WITH SPIN–IN OR DOVE–TAIL FITTINGS. ALSO PROVIDE BALANCING DAMPERS WHERE INDICATED IN THESE GENERAL NOTES AND ON THE DRAWINGS. DO NOT PROVIDE A SCOOP FITTING. ALL OPEN ENDED DUCTS SHALL BE REINFORCED WITH $1\frac{1}{2}$" X $\frac{1}{32}$" GALVANIZED STEEL ANGELS BOLTED OR RIVETED 6" ON CENTER (MAXIMUM) ALL AROUND THE EXTERIOR PERIMETER OF THE DUCT.

27. FLEXIBLE DUCT SHALL BE UL LISTED AS A CLASS I AIR DUCT COMPLYING WITH UL STANDARD 181, NFPA 90A & 90B AND HAVE A MAX FLAME SPREAD RATING OF 25 AND A MAX SMOKE DEVELOPMENT RATING OF 50. FLEXIBLE DUCT SHALL HAVE A POSITIVE OPERATING PRESSURE OF AT LEAST 5". FLEXIBLE DUCT SHALL BE TESTED FOR A MAXIMUM INTERNAL OPERATING TEMPERATURE OF 140°F UNDER CONTINUOUS OPERATION AND MAX PRESSURE AND SHALL BE RATED FOR UP TO 4,000 FPM AIR VELOCITY. OUTER JACKET/LINER SHALL BE A MULTI–DIRECTIONAL FIBERGLASS SCRIM REINFORCED, METALIZED POLYESTER VAPOR BARRIER. INNER LINER SHALL CONSIST OF AN AIRTIGHT, SMOOTH LAMINATED POLYESTER OR POLYETHYLENE FABRIC ADHERED TO A SPRING STEEL WIRE HELIX. INSULATION SHALL BE BLANKET TYPE FIBERGLASS. FLEX DUCTS LOCATED IN AN ATTIC SHALL HAVE A MINIMUM INSTALLED R–VALUE OF 8.0. ALL OTHER FLEX DUCTS SHALL HAVE A MINIMUM INSTALLED R–VALUE OF 6.0. FLEXIBLE DUCT SHALL BE THERMAFLEX TYPE KM, FLEXMASTER TYPE 1M, ATCO UPC#036, OR EQUAL. FLEXIBLE DUCTWORK SHALL NOT EXCEED 25 FEET UNO, SHALL BE INSTALLED AS STRAIGHT AS POSSIBLE, AND SHALL BE ROUTED AND SUPPORTED WITHOUT FORMING CRIMPS OR OTHER AIR FLOW RESTRICTIONS. PROVIDE SQUARE TO ROUND ADAPTERS OR BOOTS TO CONNECT TO AIR DEVICE NECK WHEN REQUIRED. FLEX DUCT SHALL HAVE A MINIMUM 5–YEAR WARRANTY. INSULATION SHALL BE LABELED EVERY 36" ON THE EXTERIOR JACKET WITH: INSTALLED R–VALUE, FLAME & SMOKE DEVELOPED RATINGS, MANUFACTURER'S NAME.

28. RIGID SHEET METAL DUCT INSULATION: FIBERGLASS DUCT WRAP, WITH FOIL FACED VAPOR BARRIER INSULATION SHALL BE U.L. LISTED. GLASS FIBERS BONDED WITH A THERMOSETTING RESIN. COMPLY WITH ASTM C 553, TYPE II, WITHOUT FACING AND WITH ALL–SERVICE JACKET MANUFACTURED FROM KRAFT PAPER, REINFORCING SCRIM, ALUMINUM FOIL, AND VINYL FILM. EXTERIOR SURFACE JACKET SHALL HAVE THE FOLLOWING STAMP: R–VALUE AT THE INSTALLED THICKNESS, MANUFACTURER'S NAME, & FLAME/SMOKE SPREAD RATING. JOHNS MANVILLE, OWENS CORNING, OR EQUAL. IF DUCTWORK SUPPORT STRAPS ARE ATTACHED TO THE DUCT, THEN LOCATE STRAPS INSIDE THE INSULATION AND SEAL WITH MASTIC AT PUNCTURE. ALL PUNCTURES (STAPLES) AND PENETRATIONS OF THE FOIL VAPOR BARRIER SHALL BE SEALED AIRTIGHT WITH FOIL TAPE AND/OR MASTIC – DO NOT USE DUCT TAPE (FABRIC OR CLOTH TYPE EVEN IF IT HAS A FOIL FACE). MASTIC MUST BE APPLIED THICK ENOUGH TO COMPLETELY COVER STAPLES. PERIMETER JOINTS SHALL BE FORMED SUCH THAT THE INSULATION ON THE TOP OF THE DUCT OVERLAPS THE INSULATION ON THE SIDES AND THE SIDES OVERLAP THE BOTTOM. DO NOT COMPRESS THE INSULATION WITH SUPPORTS (STRAPS, HANGERS, ETC.) – WHERE NECESSARY PROVIDE RIGID BOARD (6 LB DENSITY) THE SAME THICKNESS AS THE INSULATION INSERTED INTO THE INSULATION AT THE HANGER. INSULATION SHALL BE LABELED EVERY 36" ON THE EXTERIOR JACKET WITH: INSTALLED R–VALUE, FLAME & SMOKE DEVELOPED RATINGS, MANUFACTURER'S NAME.

29. DUCT LINER: RECTANGULAR DUCT: SHEET METAL DUCTWORK SHOWN OR CALLED OUT AS BEING INTERNALLY LINED SHALL BE LINED WITH 1" THICK, 1.5 LB./CU. FT. DENSITY DUCTLINER, R=4.2 PER INCH, MANVILLE LINACOUSTIC RC OR EQUAL. DUCT LINER SHALL MEET REQUIREMENTS OF NFPA 90A & 90B, MEET THE 25/50 FLAME AND SMOKE DEVELOPED RATING OF ASTM E84, MEET ASTM G–21 AND G–22, A MIN. NOISE REDUCTION COEFFICIENT OF 0.70. LINE ALL DUCTWORK MIN, 10'–0" DOWNSTREAM OF ALL FAN COIL/AIR HANDLING OR ROOF TOP UNITS UNLESS NOTED OTHERWISE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEAL ALL EDGES, SEAMS, RIPS, TEARS, ETC COMPLETELY (NO OPENINGS ALLOWED) WITH MANUFACTURER RECOMMENDED SEALER. A SEALER SHALL BE APPLIED AS NOTED ABOVE REGARDLESS OF DIRECTION BY MANUFACTURER. NOTE: LINER IS NOT A SUBSTITUTE FOR INSULATION UNLESS SPECIFICALLY NOTED TO BE. ROUND AND SPIRAL DUCT: SPIRACOUSTIC BY JOHNS MANVILLE, HAVING THE FOLLOWING CHARACTERISTICS: HAVING KERFS (CUTS) WITHIN THE LINER TO ALLOW IT TO CONFORM TO THE ROUND SHAPE AND SAME CHARACTERISTICS AS RECTANGULAR DUCT SHALL BE LINER ABOVE.

30. DUCTWORK DIMENSIONS SHOWN ON THE DRAWINGS ARE INSIDE CLEAR DIMENSIONS. INCREASE SIZE TO ACCOMMODATE LINER.

31. ALL WALL–APPLIED ITEMS (SUCH AS, BUT NOT NECESSARILY LIMITED TO, THERMOSTATS, SENSORS, ANNUNCIATORS, SWITCHES, AND DETECTORS) SHALL BE INSTALLED PLUMB, LEVEL, AND IN THE LOCATIONS DESIGNATED ON THE CONTRACT DRAWINGS. ANY DEVICES REQUIRING USER INTERACTION SHALL BE MOUNTED SUCH THAT THE TOP OF THE DEVICE IS NO MORE THAN 48" AFF. PROVIDE DIGITALLY LOCKABLE THERMOSTATS OR CLEAR LOCKING COVER ASSEMBLIES FOR ALL THERMOSTATS LOCATED IN PUBLIC AREAS. ALL DEVICE COVERS AND TRIM SHALL FIT SNUGLY TO WALL SURFACES ON ALL SIDES. IF THE CONTRACT DOCUMENTS HAVE OVERLOOKED SPECIFIC LOCATIONS FOR SOME ITEMS, THEN THE CONTRACTOR SHALL OBTAIN CLARIFICATION AND DIRECTION FROM THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION OF THESE ITEMS. PROVIDE TAMPER ROOF LOCKING COVER ASSEMBLIES FOR ALL THERMOSTATS LOCATED IN SECURE AREAS.

32. LOCATIONS OF GRILLES, REGISTERS, & DIFFUSERS SHOWN ON THE DRAWINGS ARE APPROXIMATE. COORDINATE EXACT LOCATIONS WITH LIGHTS, CEILING GRID, ETC.

33. PROVIDE ACCESS PANELS IN NON–ACCESSIBLE CEILINGS (SHEET ROCK, ETC.) AND IN WALL STRUCTURES TO ALLOW ADEQUATE ROOM FOR MAINTENANCE OF EQUIPMENT, REMOVAL OF EQUIPMENT, AND BALANCING OF SYSTEM. PROVIDE TYPE AND STYLE PER ARCHITECT. IF STRUCTURE (CEILING) IS FIRE RATED ACCESS PANEL WILL BE REQUIRED TO BE AS WELL.

34. DUCT ACCESS DOOR SHALL BE SIZE AS INDICATED ON DRAWINGS AND SHALL HAVE THE FOLLOWING: LOW PRESSURE DUCT ACCESS DOORS SHALL BE DOUBLE WALL IF INSTALLED ON SUPPLY DUCT AND PROVIDED WITH THUMB LATCHES FOR AN AIR TIGHT FIT. DOORS SHALL BE A MINIMUM OF 12x12 IF NOT STATED OTHERWISE.

35. PROVIDE MVDs AT TAKE–OFFS, WHERE ACCESSIBLE CEILING (LAY–IN) IS PROVIDED, OF RUNOUTS TO DIFFUSERS AND WHERE SHOWN ON PLANS. WHERE BALANCING DAMPERS ARE ALSO PROVIDED AT THE SUPPLY GRILLE/DIFFUSER (SEE SCHEDULE), BALANCE THE SYSTEM WITH THE DAMPER AT THE TAKE–OFF (NOT AT GRILLE). GRILLE DAMPER SHOULD BE 100% OPEN AFTER TEST AND BALANCE.

36. ROUTE DUCT HIGH AS POSSIBLE UNDER JOIST/ROOF SUPPORT. DUCT SUPPORTS/HANGERS SHALL BE ATTACHED TO THE TOP CHORD OF JOISTS.

37. FIRE–STOPPING: PIPE AND DUCT PENETRATIONS OF FIRE AND/OR SMOKE–RATED ASSEMBLIES SHALL BE FIRE–STOPPED AS REQUIRED TO RESTORE ASSEMBLY TO THE ORIGINAL INTEGRITY. SEE UL PENETRATION AND FIRE–STOPPING DETAILS IN THIS SET OF DRAWINGS AND CONSULT WITH FIRE–STOPPING MANUFACTURER FOR ADDITIONAL INFORMATION.

38. DUCT–MOUNTED SMOKE DETECTORS SHALL BE PROVIDED WHERE SHOWN ON THE PLANS. EACH SMOKE DETECTOR SHALL BE WIRED TO STOP THE FAN UPON DETECTION OF SMOKE AND SIGNAL THE BUILDING FIRE ALARM CONTROL PANEL. THE SMOKE DETECTOR SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL/FIRE ALARM CONTRACTOR BUT MOUNTED IN THE DUCT BY THE MECHANICAL CONTRACTOR. DO NOT INSTALL DUCT DETECTORS IN DUCTWORK SERVING SHOWER OR STEAM ROOMS OR ROOMS PRODUCING EXCESSIVE MOISTURE. SMOKE DETECTORS SHALL BE UL LISTED PER UL 268A SPECIFICALLY FOR USE IN AIR HANDLING SYSTEMS.

39. FIRE DAMPERS SHALL BE TYPE B (BLADES OUT OF AIRSTREAM), DYNAMIC TYPE (I.E. NOT STATIC).

40. MOTOR OPERATED DAMPERS (MOD) FOR OA VENTILATION AT FCUs SHALL HAVE THE FOLLOWING CHARACTERISTICS: BUTTERFLY STEEL DAMPER WITH RUBBER/NEOPRENE GASKET AROUND BLADE, MAX 60 DBA SOUND WHEN OPERATING. 24 VOLT OPERATION, TWO POSITION. POWERED OPEN POWERED CLOSED (NOT SPRING RETURN) BASIS OF DESIGN: FIELD CONTROLS FAD.

41. UNLESS NOTED OTHERWISE, STARTERS, DUCT MOUNTED SMOKE DETECTORS, TRANSFORMERS, CONTROLS AND CONTROL WIRING REQUIRED FOR ALL MECHANICAL SYSTEMS SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. PROVIDE A STARTER FOR ALL MOTORS. IF A SIGNAL IS REQUIRED TO START A MOTOR THEN PROVIDE AN H–O–A TYPE STARTER.

42. MOTOR STARTERS: PROVIDE AUTOMATIC MOTOR STARTERS FOR THREE–PHASE AND SINGLE–PHASE MOTORS. FRACTIONAL HP SINGLE–PHASE MOTORS SHALL HAVE INTERNAL THERMAL OVERLOAD PROTECTION EXCEPT WHERE STARTERS ARE SCHEDULED. STARTERS SHALL BE BY THE SAME MANUFACTURER (GE TYPE CR–306 OR EQUAL BY SQUARE–D, WESTINGHOUSE, ALLEN–BRADLEY, OR FURNAS) SUBJECT TO FULL COMPLIANCE WITH ALL CRITERIA. UNITS SHALL HAVE NEMA–1 ENCLOSURES (NEMA–3R IF OUTDOORS), THREE THERMAL OVERLOADS IN THREE–PHASE STARTERS, AND WITH AUXILIARY CONTACTS AND PUSH BUTTON SWITCHES AS REQUIRED BY THE "CONTROLS" SPECIFICATIONS. MOUNT MOTOR STARTERS IN THEIR OWN INDIVIDUAL ENCLOSURES OR IN A FACTORY–BUILT STARTER PANEL.

43. CONDENSATE PIPING SHALL BE PVC. CONDENSATE SHALL BE PUMPED AS REQUIRED. ROUTE ROOF MOUNTED CONDENSATE DIRECTLY TO ROOF DRAINS AND PROVIDE PIPE SUPPORTS AS NECESSARY. DO NOT SPILL ONTO SPLASH BLOCKS OR DIRECTLY ON TO ROOF SURFACE. MAINTAIN AT LEAST 1/8" PER L.F. SLOPE. SEE DETAILS.

44. DURING CONSTRUCTION AND PRIOR TO OPERATING HVAC SYSTEMS, PROVIDE MIN. MERV 8 PLEATED FILTERS IN ALL UNITS. ALSO PROVIDE BLUE HAIR FILTER MEDIA AT RETURN DUCT INLETS. AT TIME OF TEST AND BALANCE, REMOVE FILTER MEDIA AND PLEATED FILTERS AND PROVIDE SCHEDULED/SPECIFIED FILTERS FOR HVAC SYSTEMS.

45. TEST AND BALANCE (TAB): AFTER CONSTRUCTION, THE ENTIRE HVAC SYSTEM, INCLUDING THE EXHAUST AND RETURN AIR SYSTEMS SHALL BE TESTED, ADJUSTED, AND BALANCED TO DELIVER THE AIR QUANTITIES SHOWN ON THE DRAWINGS. SUBMIT CERTIFIED TEST AND BALANCE REPORT TO ARCHITECT AND ENGINEER FOR APPROVAL. EXHAUST AND RETURN SYSTEMS UNDER NEGATIVE PRESSURE SHALL NOT EXCEED BY MORE THAN 10% FOR EACH FAN AND BY NO MORE THAN 10% AT EACH INLET OF THE VALUES INDICATED ON THE DRAWINGS. TEST AND BALANCE SHALL BE DONE PRIOR TO OPERATING THE HVAC EQUIPMENT. HVAC EQUIPMENT SHALL ONLY BE TURNED ON BEFORE TEST AND BALANCE TO VERIFY OPERATION (AFTER VERIFICATION TURN EQUIPMENT OFF). AFTER TEST AND BALANCE SHUTDOWN THE EQUIPMENT UNTIL ENGINEER/ARCHITECT REVIEWS TEST AND BALANCE REPORT AND RESPONDS BACK WITH COMMENTS. TESTING AGENCY SHALL BE AABC OR NEBB CERTIFIED AND SHALL BE INDEPENDENT (NONAFFILIATED) FROM THE CONTRACTOR (INCLUDING SUBCONTRACTOR). THE CONTRACTOR SHALL INCLUDE IN THEIR SCOPE OF WORK ONE (1) FULL DAY (8 HOURS AT SITE) ON SITE WITH THE MECHANICAL ENGINEER OR OWNER OR AS DIRECTED BY THE ENGINEER TO SPOT CHECK OR REMEASURE AIRFLOWS, TEMPERATURES, ETC. TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AND THE TAB REPORT.

HVAC EQUIPMENT SUBMITTAL REQUIREMENTS

HVAC EQUIPMENT SUBMITTALS SHALL BE SUBMITTED TO AND REVIEWED BY THE ARCHITECT AND ENGINEER PRIOR TO ORDERING, PURCHASING, OR FABRICATING MECHANICAL EQUIPMENT. SUBMITTALS SHALL INCLUDE ALL NEW EQUIPMENT SCHEDULED OR SPECIFIED ON THE DRAWINGS OR SPECS INCLUDING, BUT NOT LIMITED TO RTUs, CURBS, SPLIT SYSTEMS, GRDs, LOUVERS, FANS, HEATERS, DUCTWORK, PIPING, INSULATION, LINER, CONTROLS, VFDs, ETC.. SUBMITTALS SHALL BE LABELED CLEARLY AND OBVIOUSLY TO MATCH THE SCHEDULED EQUIPMENT UNIT DESIGNATION ("TAG" OR "MARK") SHOWN ON THE DESIGN DRAWINGS. SUBMITTALS SHALL SPECIFICALLY INDICATE THAT THE SCHEDULED CAPACITIES, ACCESSORIES, WEIGHTS, ELECTRICAL CHARACTERISTICS, AND ALL OTHER NOTES AND REQUIREMENTS LISTED ON THE DESIGN DRAWINGS AND SPECS ARE BEING SATISFIED. IF THERE ARE ANY DEVIATIONS FROM THE DESIGN DOCUMENTS, CONTRACTOR SHALL STATE AS SUCH AND PROVIDE A LIST OF DEVIATIONS AND REFERENCES TO ITEM IN THE DESIGN DOCUMENTS. ANY DEVIATIONS OR ALTERNATE EQUIPMENT SELECTIONS MUST STILL MEET SCHEDULED REQUIREMENTS. IT IS PREFERRED THAT ALL HVAC EQUIPMENT SUBMITTALS BE PROVIDED IN A SINGLE DOCUMENT/PACKAGE, BUT IF NOT POSSIBLE, ALL EQUIPMENT WITHIN EACH GIVEN SPEC SECTION SHALL BE SUBMITTED AT THE SAME TIME (I.E., SUBMIT ALL SPLIT SYSTEMS (DUCTED AND DUCTLESS) IN ONE DOCUMENT/PACKAGE, NOT INDIVIDUALLY). IF ENTIRE EQUIPMENT CATALOGS ARE SUBMITTED, THEY WILL BE REJECTED AND CONTRACTOR WILL NEED TO RESUBMIT WITH ONLY PERTINENT DATA PROVIDED. NO PIECE OF EQUIPMENT SHOULD HAVE MORE THAN FIVE PAGES (LETTER SIZE) OF INFORMATION PROVIDED TO DEMONSTRATE COMPLIANCE WITH DRAWINGS. MOST EQUIPMENT SUBMITTALS SHOULD HAVE ALL DATA PROVIDED ON A SINGLE PAGE. CONTRACTOR SHALL FILL OUT THE EXAMPLE FORMS LISTED BELOW FOR EACH PIECE OF EQUIPMENT AND PROVIDE WITH SUBMITTALS OR SUBMITTALS WILL BE REJECTED.

HVAC EQUIPMENT RESUBMITTAL REQUIREMENTS: IF AN EQUIPMENT SUBMITTALS HAS BEEN MARKED AS "REJECTED" OR "REVISE AND RESUBMIT" BY ENGINEER, THEN CONTRACTOR SHALL RESUBMIT ONLY THAT EQUIPMENT MARKED TO BE RESUBMITTED (DO NOT RESUBMIT EQUIPMENT NOTED AS "NO EXCEPTIONS TAKEN" OR "EXCEPTIONS NOTED"). CONTRACTOR SHALL RESUBMIT ALL ITEMS MARKED "REJECTED" OR "REVISE AND RESUBMIT" AT THE SAME TIME OR THEY WILL BE REJECTED AGAIN.

EXAMPLE SPLIT SYSTEM SUBMITTAL FORM:
TAG:
FCU MODEL NUMBER:
FCU WEIGHT (LBS):
CU/HP MODEL NUMBER:
CU/HP WEIGHT (LBS):
SUPPLY FAN HP:
SUPPLY CFM:
OA CFM (IF REQUIRED):
TOTAL COOLING CAPACITY AT SCHEDULED COIL EAT:
SENSIBLE COOLING CAPACITY AT SCHEDULED COIL EAT:
INTEGRAL HEAT CAPACITY AT SCHEDULED EAT (IF HEAT PUMP):
PROPOSED EER/SEER:
PROPOSED HSPF/COP:
STRIP HEAT CAPACITY AT SCHEDULED VOLTAGE/# OF STAGES:
REFRIGERANT TYPE:
LINESET DIMENSIONS RECOMMENDED BY MANUFACTURER:
MAXIMUM ANTICIPATED LENGTH AND IF LONG LINESET IS REQUIRED:
WARRANTIES (COMPRESSOR/OTHER):
AIR FILTER TYPE (MERV) PROVIDED:
CABINET FINISH (BAKED ENAMEL/PAINT) AND LEAKAGE RATE:
T'STAT MAKE/MODEL (INDICATE IF SCHEDULED REQUIREMENTS ARE MET):
FCU/CU/HP ACCESSORIES PROVIDED:

EXAMPLE RTU SUBMITTAL FORM:
TAG:
MODEL NUMBER:
WEIGHT (LBS):
SUPPLY FAN HP:
SUPPLY CFM:
OA CFM:
TOTAL COOLING CAPACITY AT SCHEDULED COIL EAT:
SENSIBLE COOLING CAPACITY AT SCHEDULED COIL EAT:
INTEGRAL HEAT CAPACITY AT SCHEDULED EAT (IF HEAT PUMP):
GAS INPUT/OUTPUT RATING (IF APPLICABLE):
GAS STAGES:
GAS EFFICIENCY RATING (IF APPLICABLE):
PROPOSED EER/SEER:
PROPOSED HSPF/COP:
STRIP HEAT CAPACITY AT SCHEDULED VOLTAGE/# OF STAGES:
REFRIGERANT TYPE:
WARRANTIES (COMPRESSOR/OTHER):
AIR FILTER TYPE (MERV) PROVIDED:
CABINET FINISH (BAKED ENAMEL/PAINT) AND LEAKAGE RATE:
T'STAT MAKE/MODEL (INDICATE IF SCHEDULED REQUIREMENTS ARE MET):
ACCESSORIES PROVIDED:
CURB DIMENSIONS AND INSULATION:

EXAMPLE FLEX DUCT SUBMITTAL FORM:
MAKE/MODEL NUMBER:
INSTALLED R–VALUE:
CONSTRUCTION DESCRIPTION:
RATED AND MAXIMUM OPERATING PRESSURE AND TEMPERATURE PER UL181:
AIR FRICTION CHART:
WARRANTY:

EXAMPLE SHEET METAL DUCTWORK SUBMITTAL FORM:
METAL TYPE, FINISH, AND THICKNESS:
CONSTRUCTION DESCRIPTION (SEAMS/JOINTS/MASTIC INFO):
RATED AND MAXIMUM OPERATING PRESSURE AND TEMPERATURE:
FITTINGS:
WARRANTY:

EXAMPLE DUCTBOARD SUBMITTAL FORM:
MAKE/MODEL NUMBER:
INSTALLED R–VALUE:
CONSTRUCTION DESCRIPTION:
RATED AND MAXIMUM OPERATING PRESSURE AND TEMPERATURE PER UL181:
AIR FRICTION CHART:
WARRANTY:

EXAMPLE GRD SUBMITTAL FORM:
TAG:
MAKE/MODEL NUMBER:
BLOW PATTERN:
DIMENSIONS:
AIRFLOW RANGE (CFM):
PRESSURE DROP (IN.WC.):
NC AT AIRFLOW:
THROW DISTANCES AT TERMINAL VELOCITIES OF 150/100/50 FPM (FT):
FRAME/MOUNTING TYPE:
COLOR/FINISH:
WARRANTY:
ACCESSORIES PROVIDED:

EXAMPLE SHEET METAL DUCT ACCESSORIES (DAMPERS, TURNING VANES, FLEX CONNECTORS, ACCESS PANELS, ETC.) SUBMITTAL FORM:
MAKE/MODEL:
RATED AND MAXIMUM OPERATING PRESSURE AND TEMPERATURE:
CERTIFICATIONS/COMPLIANCE:
DIMENSIONS:
WARRANTY:

EXAMPLE WALL LOUVER SUBMITTAL FORM:
TAG:
MAKE/MODEL NUMBER:
DIMENSIONS:
AIRFLOW (CFM):
FREE AREA:
WIND PERFORMANCE RATING:
LICENSING (AMCA/UL/ETC.):
WARRANTY:
LOUVER COLOR/FINISH:
ACCESSORIES PROVIDED:

EXAMPLE FAN SUBMITTAL FORM:
TAG:
MAKE/MODEL NUMBER:
WEIGHT (LBS):
AIRFLOW (CFM):
SOUND DATA (SONES AND/OR DB CHART):
WARRANTIES (COMPRESSOR/OTHER):
CABINET FINISH (SPECIALTY COATINGS, ETC.):
CONTROLS PROVIDED:
ACCESSORIES PROVIDED:
FAN CURVE:

EXAMPLE HEATER SUBMITTAL FORM:
TAG:
MAKE/MODEL NUMBER:
WEIGHT (LBS):
AIRFLOW (CFM):
VOLTAGE/PHASE:
INPUT/OUTPUT CAPACITY (KW OR BTUS IF GAS):
SOUND DATA (SONES AND/OR DB CHART):
WARRANTY:
CABINET FINISH:
MOUNTING KIT TYPE (HANGING, RECESSED, SURFACE, ETC.):
CONTROLS PROVIDED:
ACCESSORIES PROVIDED:

STUDIO8 design
architecture
2722 North Oak Street
Valdosta, Georgia 31602
P.(229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

Phillips Gradick Engineering, P.C.
8215 Roswell Road, Suite 925
Atlanta, GA 30350
Telephone: 770.650.9061 Fax: 770.642.2410
PGE Project No. 224015

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A HOUSING FACILITY FOR
NEWBERRY COUNTY
DETENTION CENTER
NEWBERRY, SOUTH CAROLINA

CRAIG M. GRADICK No. 22853
07/12/2024

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HVAC NOTES AND LEGENDS

SEQUENCE OF OPERATIONS

BUILDING AUTOMATION SYSTEM

THE CONTRACTOR SHALL PROVIDE ALL NECESSARY CONTROLLERS, WIRING, DEVICES, SENSORS, ACTUATORS, SOFTWARE, POWER, AND PROGRAMMING SO THAT THE FOLLOWING SEQUENCES AND REQUIREMENTS ARE ACHIEVED:

MISCELLANEOUS:
1. THERE WILL BE NO COMPUTER WORKSTATION. THE MASTER CONTROL PANEL AND CONTROL SYSTEM SHALL BE WEB BASED AND ACCESSIBLE FROM ANY COMPUTER ON THE INTERNET. THE CONTROL PANEL NEEDS TO HAVE THE CAPABILITY OF HAVING A LAPTOP COMPUTER PLUG IN FOR SYSTEM ACCESS.

RTU-E, W (WITH ENERGY RECOVERY):
1. COOLING – MODULATE STAGES OF COOLING TO MAINTAIN SPACE TEMPERATURE (ADJ.) AS CONTROLLED BY INTERNAL CONTROLS.
2. HEATING – OCCUPIED MODE: MODULATE GAS HEAT TO MAINTAIN SPACE TEMPERATURE (ADJ.). HOT GAS REHEAT, AS CONTROLLED BY INTERNAL CONTROLS SHALL BE USED TO MAINTAIN SPACE TEMPERATURE.
3. SUPPLY AIR VOLUME SHALL REMAIN CONSTANT
4. SHUTDOWNS: UNIT SHALL SHUT DOWN UPON ACTIVATION OF DUCT MOUNTED SMOKE DETECTOR
5. WHEEL SHALL BE CONTROLLED BY RTUs INTERNAL CONTROLS

DUCTLESS SPLITS:
1. UNIT SHALL BE ENERGIZED BASED ON A CALL FOR HEATING OR COOLING. WHEN SPACE TEMPERATURE IS SATISFIED THE SYSTEM SHALL SHUT DOWN. COORDINATE WITH MANUFACTURER

THERMOSTATS (SPACE SENSORS) SHALL HAVE:
1. TEMPERATURE SENSING
2. SECURITY PLATE

EXHAUST FANS:
1. SEE FANS SCHEDULE FOR INDIVIDUAL FAN CONTROLS.

MEETINGS:
1. CONTRACTOR SHALL PROVIDE SUBMITTALS TO ENGINEER PRIOR TO PURCHASING AND ORDERING.
2. PROVIDE MINIMUM OF 8 HOURS OF TRAINING OVER TWO DAYS (4 HOURS EACH DAY) BY CONTROLS PROVIDERS TO OWNER AT TURNOVER OF SYSTEM. TRAINING SHALL BE IN PERSON AT THE BUILDING SITE.

ROOF TOP UNITS (RTU) – GAS HEAT

TAG	NOM. TONS	MAKE AND MODEL #	AREA SERVED	SUPPLY AIRFLOW (CFM)	OA AIRFLOW (CFM)	EA AIRFLOW (CFM)	SUPPLY ESP (IN. W.C)	EXHAUST ESP (IN. W.C)	SUPPLY FAN POWER (HP)	EXHAUST FAN POWER (HP)	COOLING COIL			ENERGY RECOVERY WHEEL PERFORMANCE								GAS HEAT			HEATING EFFICIENCY (THERMAL EFFICIENCY)	WEIGHT (LB)	NOTES
											TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	COIL EAT DB/WB (°F)	OUTDOOR AIR DB/WB (°F)		SUPPLY AIR (TO COIL) DB/WB (°F)		RETURN AIR DB/WB (°F)		TOTAL EFFECTIVENESS (%)		INPUT (MBH)	OUTPUT (MBH)	EAT (DB °F)			
														SUMMER	WINTER	SUMMER	WINTER	SUMMER	WINTER	SUMMER	WINTER						
RTU-E	17.5	GREENHECK RVE-85-17.5-1	HOUSING	5,520	5,520	4,880	1.5	1.5	7.5	5.0	219.9	170.5	83.3/67.5	96.9/74.1	31.5/27.0	83.3/67.5	55.4/44.8	75.0/62.5	72.0/55.8	60	56.5	300	243	55.4	80%	4,500	ALL
RTU-W	15	GREENHECK RVE-40-15-1	HOUSING	4,040	4,040	3,355	1.5	1.5	5.0	5.0	192.4	139.8	84.7/68.4	96.9/74.1	31.5/27.0	84.7/68.4	52.8/42.8	75.0/62.5	72.0/55.8	53	49.5	200	162	52.8	80%	4,000	ALL

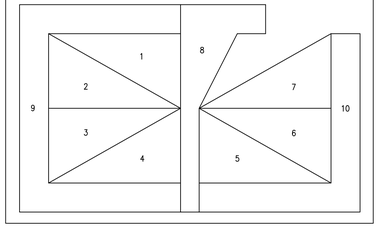
NOTES:
A. CAPACITIES LISTED ARE MINIMUM NET REQUIREMENTS. COOLING CAPACITIES AND HEATING CAPACITIES ARE MINIMUMS AND SHALL NOT BE LESS THAN THE VALUES SCHEDULED.
B. WEIGHTS LISTED INCLUDE CURB, ACCESSORIES, AND 200 LB. FOR ADDITIONAL INSULATION.
C. UNIT SHALL BE FACTORY ASSEMBLED, PIPED, WIRED, AND TESTED AS A SINGLE PACKAGE.
D. UNIT SHALL INCLUDE A 100% OUTSIDE AIR HOOD WITH 2 POSITION MOTORIZED DAMPER.
E. PROVIDE A MINIMUM OF TWO INDEPENDENT COOLING CIRCUITS FOR UNITS UP TO 30 TONS AND AT LEAST FOUR INDEPENDENT COOLING CIRCUITS FOR LARGER UNITS.
F. COOLING COILS SHALL BE INTERTWINED ARRANGEMENT, FACE OR HORIZONTAL SPLIT COIL ARE NOT ACCEPTABLE.
G. UNIT SHALL NOT INCLUDE SUBCOOLING REHEAT CIRCUIT.
H. HEAT MBH IS MINIMUM REQUIRED.
I. UNIT SHALL INCLUDE STAINLESS STEEL DRAIN PAN
J. UNIT SHALL INCLUDE MANUAL RESET HIGH PRESSURE SWITCHES & AUTO RESET LOW PRESSURE SWITCHES.
K. UNIT SHALL INCLUDE ECM CONDENSER FAN MOTORS FOR CONDENSER HEAD PRESSURE CONTROL.
L. UNIT SHALL INCLUDE 2" (MERV 13) FINAL FILTERS AND MINIMUM MERV 8 PREFILTERS. PROVIDE FULLY SYNTHETIC MEDIA WITH SPECIAL SUPPORTING STRUCTURE TO PREVENT MOISTURE LADEN FILTER COLLAPSE.
M. UNIT SHALL BE PROVIDED WITH FULLY MODULATING HOT GAS REHEAT.
N. 2" FOAM INJECTED INSULATED (MINIMUM R-8) DOUBLE WALL CABINET CONSTRUCTION.
O. UNIT SHALL INCLUDE INTEGRAL NON-FUSED DISCONNECT AND INTEGRAL POWERED CONVENIENCE OUTLET SEPARATELY CIRCUITED.
P. R-410A REFRIGERANT ACCEPTABLE IF AVAILABLE. IF AN A2L (LOW FRAMABILITY) REFRIGERANT (IE R32 AND R454B) IS USED, PROVIDE REFRIGERANT LEAK DETECTOR.
Q. UNIT OPERATION INTERLOCKED WITH DUCT MOUNTED SMOKE DETECTORS IMMEDIATELY UPSTREAM OF RTU. UNIT SHALL SHUT DOWN UPON DETECTION OF SMOKE. SMOKE DETECTORS SHALL BE BY FIRE ALARM PROVIDER, INSTALLED BY HVAC, WIRED BY FIRE ALARM.
R. COMPRESSORS SHALL HAVE 5 YEAR WARRANTY (PARTS ONLY).
S. UNIT SHALL HAVE VARIABLE CAPACITY SCROLL COMPRESSOR.
T. PROVIDE UNIT WITH HAIL GUARDS.
U. EACH RTU SHALL BE SET-UP & STARTED UP BY A FACTORY REPRESENTATIVE. PROVIDE DOCUMENTATION OF START-UP.
V. CONTROLS: CONTROLLER WITH AMBIENT DEWPOINT SENSOR; ELECTRONIC SEQUENCING OF COMPRESSORS AND HEATING AND MODULATING HOT GAS RE-HEATING. INTENTION OF THIS UNIT IS TO PROVIDE CONTINUOUS DEHUMIDIFICATION OF OUTSIDE AIR WHILE ALSO PROVIDING TEMPERATURE CONTROL TO THE SPACE IT SERVES. IF THIS CAUSES OVERCOOLING IN THE SPACE, THE MODULATING HOT GAS REHEAT VALVE SHALL OPEN TO SATISFY THE CONDITIONED SPACE REQUIREMENT. FIELD MOUNTED CONTROLS SHALL INCLUDE A DUCT MOUNTED LEAVING AIR STAT AND A WALL MOUNTED STAT (SEE PLANS FOR LOCATION). ALL UNIT MOUNTED CONTROLS FOR COMPLETE OPERATION SHALL BE INSTALLED BY THE EQUIPMENT MANUFACTURER WITH REMOTE MOUNTED SPACE SENSORS, SEE PLANS FOR LOCATIONS.
W. UNITS SHALL BE ON EMERGENCY POWER, SEE ELECTRICAL.
X. UNIT SHALL INCLUDE DIRECT DRIVE PLENUM SUPPLY FAN WITH FACTORY PROVIDED VFD. VFD TO BE USED FOR BALANCING.
Y. PROVIDE POLYMER ENERGY RECOVERY WHEEL.
Z. PROVIDE PROGRAMMABLE 7 DAY THERMOSTAT, NIGHT SETBACK (55° HEATING, 85° COOLING), AUTO CHANGEOVER FOR HEAT-COOL, 5 DEGREE DEADBAND ADJUSTMENT BETWEEN HEAT AND COOL OPERATION. PROVIDE A REMOTE SENSOR WHERE SHOWN ON THE PLANS. THERMOSTAT SHALL BE PROVIDED BY MANUFACTURER.

COMMON AREAS: MECHANICAL VENTILATION CALCULATION PER 2021 IMC TABLE 403.3.1.1

QUADRANT	ROOM	OCCUPANCY CLASSIFICATION	OCCUPANCY	AREA (SF)	CFM/SF	CFM/PERSON	AIR DISTRUBUTION CONFIGURATION	Ez	OA CFM REQUIRED	OA CFM PROVIDED	EA CFM	CELL MULTIPLIER	TOTAL OA CFM	TOTAL EA CFM
8	101 CORRIDOR	CORRIDORS	0	275	0.06	0	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	25	50	(225)	-	50	(225)
8	102 JANITOR	CORRIDORS	0	35	0.06	0	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	5	-	-	-	-	-
8	103 CORRIDOR	CORRIDORS	0	89	0.06	0	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	10	50	-	-	50	-
8	104 EXAM	OFFICE SPACES	1	104	0.06	5	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	15	75	-	-	75	-
8	105 PROGRAMS	CONFERENCE/MEETING	9	173	0.06	5	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	70	150	-	-	150	-
8	106 STAIRS	CORRIDORS	0	83	0.06	0	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	10	100	-	-	100	-
8	108 LOBBY	CORRIDORS	0	211	0.06	0	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	20	50	-	-	50	-
8	151 CORRIDOR	CORRIDORS	0	275	0.06	0	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	25	75	-	-	75	-
8	181 TOILET	TOILET ROOMS - PUBLIC	0	24	0	0	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	-	-	-	-	-	-
8	183 OFFICE	OFFICE SPACES	1	108	0.06	5	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	15	75	(75)	-	75	(75)
8	184 STORAGE	STORAGE ROOMS	0	229	0.12	0	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	35	50	(50)	-	50	(50)
1	109 MAXIMUM SECURITY DAYROOM	DAY ROOM	16	509	0.06	5	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	140	520	(105)	-	520	(105)
1	MAX SECURITY CELL	CELLS WITH PLUMBING	1	82	0.12	5	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	20	55	(80)	10	550	(800)
1	MAX SECURITY HANDICAP CELL	CELLS WITH PLUMBING	1	82	0.12	5	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	20	55	(80)	1	55	(80)
1	110 SHOWER	SHOWER ROOM (PER SHOWER HEAD)	0	82	0	0	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	-	-	(40)	-	-	(40)
2	122 DAYROOM	DAY ROOM	19	625	0.06	5	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	170	580	(265)	-	580	(265)
2	123 SHOWER	SHOWER ROOM (PER SHOWER HEAD)	0	82	0	0	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	-	-	(40)	-	-	(40)
2	CELL	CELLS WITH PLUMBING	2	82	0.12	5	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	25	55	(80)	6	330	(480)
2	HANDICAP CELL	CELLS WITH PLUMBING	2	82	0.12	5	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	25	55	(80)	1	55	(80)
3	131 DAYROOM	DAY ROOM	15	488	0.06	5	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	135	520	(255)	-	520	(255)
3	132 SHOWER	SHOWER ROOM (PER SHOWER HEAD)	0	82	0	0	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	-	-	(40)	-	-	(40)
3	CELL	CELLS WITH PLUMBING	2	82	0.12	5	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	25	55	(80)	4	220	(320)
3	HANDICAP CELL	CELLS WITH PLUMBING	2	82	0.12	5	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	25	55	(80)	1	55	(80)
9	186 MECHANICAL	MECHANICAL/ELECTRICAL ROOMS	0	540	0	0	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	-	480	(420)	1	480	(420)
												RTU-W	4,040	(3,355)
4	138 DAYROOM	DAY ROOM	16	504	0.06	5	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	140	520	(105)	-	520	(105)
4	139 SHOWER	SHOWER ROOM (PER SHOWER HEAD)	0	82	0	0	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	-	-	(40)	-	-	(40)
4	CELL	CELLS WITH PLUMBING	2	82	0.12	5	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	25	55	(80)	10	550	(800)
4	HANDICAP CELL	CELLS WITH PLUMBING	2	82	0.12	5	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	25	55	(80)	1	55	(80)
5	152 DAYROOM	DAY ROOM	18	588	0.06	5	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	25	570	(105)	-	570	(105)
5	153 SHOWER	SHOWER ROOM (PER SHOWER HEAD)	0	82	0	0	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	-	-	(40)	-	-	(40)
5	CELL	CELLS WITH PLUMBING	2	82	0.12	5	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	25	55	(80)	12	660	(960)
5	HANDICAP CELL	CELLS WITH PLUMBING	2	82	0.12	5	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	25	55	(80)	1	55	(80)
6	167 DORMITORY	DAY ROOM	16	922	0.06	5	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	170	760	(660)	-	760	(660)
7	169 WOMEN'S DAYROOM	DAY ROOM	23	747	0.06	5	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	200	735	(420)	-	735	(420)
7	171 SHOWER	SHOWER ROOM (PER SHOWER HEAD)	0	82	0	0	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	-	-	(40)	-	-	(40)
7	CELL	CELLS WITH PLUMBING	2	82	0.12	5	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	25	55	(80)	-	55	(80)
7	HANDICAP CELL	CELLS WITH PLUMBING	2	82	0.12	5	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	25	55	(80)	6	330	(480)
9	187 MECHANICAL	MECHANICAL/ELECTRICAL ROOMS	0	540	0	0	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	-	570	(430)	-	570	(430)
10	188 CHASE	MECHANICAL/ELECTRICAL ROOMS	0	559	0	0	CEILING SUPPLY OF WARM AIR AND CEILING RETURN	0.8	-	660	(560)	-	660	(560)
												RTU-E	5,520	(4,880)

BUILDING AIR BALANCE

QUADRANT	SUPPLY AIR CFM	EXHAUST AIR CFM	BALANCE
1	1125	(1025)	100
2	965	(865)	100
3	795	(695)	100
4	1125	(1025)	100
5	1285	(1185)	100
6	760	(660)	100
7	1120	(1020)	100
8	675	(350)	325
9	1050	(850)	200
10	660	(560)	100



MINI SPLIT SYSTEMS

TAG	MITSUBISHI MODEL # INDOOR/OUTDOOR UNIT	SYSTEM TYPE	NOMINAL TONS	TYPE	AREA SERVED	SUPPLY AIRFLOW (CFM)	OUTDOOR AIRFLOW (CFM)	COOLING			COIL EAT DB/WB (°F)	HEAT PUMP CAPACITY (MBH)	MIN. HSPF/HSPF2	MIN LINE LENGTH (FT)	MAX. WEIGHT (LB)		NOTES	ACCESSORIES
								TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	MIN. SEER/SEER2					DFC	DCU		
DFC/DCU-201	PKA/PUY	WALL MOUNT	2.0	COOL	ELECTRONICS	775	--	24.0	18.0	14.0/14.3	75.0/62.3	--	--	225	50	150	1-4, 6	1-8
DFC/DCU-202	PLA/PUZ	CASSETE	2.0	HP	CONTROLS	810	70	24.0	18.0	14.0/14.3	75.0/62.3	17.4	8.8/7.5	165	50	150	1-6	1-9

NOTES:
1. COOLING CAPACITIES BASED ON 95° F db AIR ENTERING OUTDOOR UNIT.
2. COOLING CAPACITIES SCHEDULED IS AN ARI RATED CAPACITY. UNIT SHALL BE AHRI RATED.
3. R-410A REFRIGERANT ACCEPTABLE IF AVAILABLE. IF AN A2L (LOW FRAMABILITY) REFRIGERANT (IE R32 AND R454B) IS USED, PROVIDE REFRIGERANT LEAK DETECTOR.
4. LINE LENGTHS ARE MAX LENGTHS OF THE BASIS OF DESIGN. DISTANCES BETWEEN INDOOR & OUTDOOR UNITS WORKS WITH THESE LENGTHS. SHORTER LENGTHS ARE ALLOWED IF FIELD CONDITIONS ALLOW. SEE ACCESSORY NOTE.
5. UNIT IS A HEAT PUMP WITH HEATING CAPACITY BASED ON 17°F OUTDOOR AIR AMBIENT.
6. UNIT SHALL BE ON EMERGENCY GENERATOR.

BASIS OF DESIGN: AS NOTED; EQUAL BY: LG, CARRIER, DAIKIN

ACCESSORIES:
1. FILTER DRYER.
2. CLEANABLE FILTERS.
3. PROVIDE STANDARD WALL MOUNTED WIRED T'STAT. SEE SEQUENCE BELOW. LOCATE T'STAT, IF NOT SHOWN OTHERWISE, ON WALL IN ROOM THE UNIT SERVES. MOUNT SO THAT SUPPLY AIR DOES NOT BLOW ON T'STAT.
4. PROVIDE UNIT WITH INVERTER (VARIABLE SPEED) COMPRESSOR.
5. PROVIDE MOUNTING KIT FOR FAN COIL UNIT.
6. REFRIGERANT LINES SHALL BE SIZED PER THE MANUFACTURER'S RECOMMENDATION. PROVIDE LONG LINE REFRIGERATION LINE SET WHERE REQUIRED BY MANUFACTURER, – LINES SHALL BE SIZED BY MANUFACTURER TO MAINTAIN SCHEDULED CAPACITY. SHOW MANUFACTURER'S RECOMMENDED LINE SET SIZE IN SUBMITTALS. MANUFACTURER SHALL DETERMINE IF LONG LINE APPLICATION KIT IS REQUIRED. PROVIDE DOCUMENTATION IN SHOP DRAWINGS. PROVIDE ALL ACCESSORIES REQUIRED BY THE MANUFACTURER FOR LONG LINE APPLICATIONS.
7. PROVIDE CONDENSING UNIT WITH WIND BAFFLE.
8. PROVIDE INTEGRAL CONDENSATE PUMP FROM MANUFACTURER.
9. PROVIDE WITH OUTSIDE AIR INTAKE KIT.

DUCT INSULATION – SHEET METAL DUCT

DUCT TYPE	DUCT LOCATION	INSULATION TYPE	NOTES
SUPPLY	EVERYWHERE, UNO	DUCTWRAP, R VALUE = 6.3 MIN, OUT OF BOX 8.0	1,2
SUPPLY	ABOVE CEILING	DUCTWRAP, R VALUE = 4.2	1,2
EXHAUST	EVERYWHERE, UNO	DUCTWRAP, R VALUE = 4.2	1,2,3
SUPPLY & EXHAUST	OUTDOORS	R-VALUE = 4.0/INCH, RIGID BOARD, 2" THICK, POLYSTYRENE, ALUMINUM JACKET, SEE DETAIL	--

NOTES:
1. DUCT INSULATION CHARACTERISTICS SHALL BE AS NOTED IN HVAC GENERAL NOTES.
2. INSULATION THICKNESS AND DENSITY CAN VARY. R VALUES MUST BE MET OR EXCEEDED. R-VALUES ARE INSTALLED VALUES (BASED ON INSTALLED THICKNESS).
3. INSULATE PLENUMS ASSOCIATED WITH (OR BEHIND) WALL LOUVERS.

ROOF HOODS

TAG	MAKE & MODEL NO.	DUTY	APPROXIMATE THROAT SIZE (IN)	MIN. FREE AREA (SF)	DAMPER	NOTES	ACCESSORIES
RH-A	GREENHECK GRSI-8	INTAKE	8@	0.2	NO	1-3	1

NOTES:
1. COORDINATE WITH ROOF CONTRACTOR FOR INSTALLATION.
2. ALUMINUM CONSTRUCTION.
3. COLOR SELECTED BY ARCHITECT, SUBMIT FINISH CHART WITH SHOP DRAWINGS.

ACCESSORIES:
1. BIRD SCREEN.

GRILLES, REGISTERS & DIFFUSERS

TAG	MODEL	SERVICE	SIZE	TYPE/NOTES	INTEGRAL BALANCING DAMPER	MATERIAL	NOTES	ACCESS.
A	TITUS TDC	SUPPLY	24x24	4 WAY BLOW SQUARE LOUVERED DIFFUSER WITH LAY-IN FRAME	YES	STEEL	1-6	1-2
B	TITUS 45F	RA/EA	24x24	1/2" GRID SPACING SIGHT PROOF RETURN GRILLE WITH LAY-IN FRAME	NO	ALUMINUM	1-6	–
C	–	SUPPLY	SEE PLANS	SUPPLY GRILLE PROVIDED BY STEEL CELL MANUFACTURER INTEGRAL TO CELL	NO	STEEL	8	4
D	–	EXHAUST	SEE PLANS	RETURN GRILLE PROVIDED BY STEEL CELL MANUFACTURER INTEGRAL TO CELL	NO	STEEL	8	4
E	TITUS SC-PR	SUPPLY	SEE PLANS	SUICIDE DETERRENT MAXIMUM SECURITY GRILLE WITH 5/16" HOLES	NO	STEEL	1-7	1,3,5
F	TITUS SC-PR	EXHAUST	SEE PLANS	SUICIDE DETERRENT MAXIMUM SECURITY GRILLE WITH 5/16" HOLES	NO	STEEL	1-7	1,3,5
G	TITUS SC-PRT	TRANSFER	SEE PLANS	SUICIDE DETERRENT MAXIMUM SECURITY GRILLE WITH 5/16" HOLES	NO	STEEL	1-3,6-7	3
H	TITUS PAR	SUPPLY	24x24	PERFORATED GRILLE, NO PATTERN CONTROLLERS	NO	STEEL	1-6	1
J	TITUS SC-PR	SUPPLY	SEE PLANS	SUICIDE DETERRENT MAXIMUM SECURITY GRILLE WITH 5/16" HOLES	YES	STEEL	1-7	1,3,6

NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR TYPE OF CEILING AND SUSPENSION SYSTEM INCLUDING SECURE AREAS. SEE FLOOR PLANS FOR AIRFLOWS (CFM). BALANCE GRILLES AT TAKEOFFS UNO. SEE DETAILS.
2. COLOR SELECTED BY ARCHITECT; SUBMIT FINISH CHART WITH SHOP DRAWINGS.
3. DIFFUSERS SHALL HAVE A BAKED ENAMEL FINISH.
4. RUNOUTS TO DIFFUSERS SHALL BE SAME SIZE AS DIFFUSER NECK UNLESS NOTED OTHERWISE.
5. PROVIDE SQUARE/RECTANGULAR TO ROUND TRANSITION WITH MAX. 60° ANGLE. SEE PLANS FOR NECK SIZE.
6. GRDs SHALL NOT HAVE AN NC RATING GREATER THAN 30 AT THE CFM INDICATED ON THE FLOOR PLANS. STATIC PRESSURE DROP SHALL NOT BE GREATER THAN 0.10" AT THE CFM INDICATED.
7. GRILLES SHALL BE 3/16" THICK STEEL FACE PLATE WITH 5/16"ø HOLES STAGGERED 7/16" CENTERS.
8. GRILLE TO BE PROVIDED BY STEEL CELL MANUFACTURER. BALANCING DAMPER IS PROVIDED BY HVAC CONTRACTOR. SEE ACCESSORY 4.

BASIS OF DESIGN: AS NOTED. EQUAL BY: NAILOR, TITUS, PRICE, KRUEGER, METALAIRE

ACCESSORIES:
1. PROVIDE R-6 INSULATION (FACTORY PROVIDED/MOUNTED) ON BACKSIDE OF DIFFUSER.
2. DIFFUSER SHALL HAVE 360° BLOW PATTERN.
3. PROVIDE ANCHOR BARS AND ANGLE FRAME FOR FIELD WELDING. SECURITY BARS ARE REQUIRED ON GRILLES LARGER THAN 6x6 LOCATED IN SECURITY WALLS. SEE DETAIL.
4. PROVIDE A MANUAL VOLUME DAMPER MOUNTED IN DUCT IN MECHANICAL CHASE BEHIND EVERY GRILLE. DAMPER SHALL BE ACCESSIBLE THROUGH GRILLE.
5. PROVIDE A MANUAL VOLUME DAMPER AT EVERY TAKE-OFF FOR EVERY GRILLE. DAMPERS SHALL BE ACCESSIBLE IN MECHANICAL CHASE.
6. PROVIDE A MANUAL VOLUME DAMPER AT EVERY TAKE-OFF FOR EVERY GRILLE. DAMPER SHALL BE ACCESSIBLE THOUGH GRILLE.

FANS

TAG	MODEL #	AREA SERVED	TYPE	AIRFLOW (CFM)	ESP (IN.-W.C.)	MOTOR POWER (HP)	MAX. SONES	DRIVE	WEIGHT (LB)	NOTES	ACCESSORIES	CONTROL
TEF-A	GREENHECK SP-A	PUBLIC RESTROOM	CEILING MTD	70	0.5	50 W	3.0	DIRECT	50	1-7	1-8	A. LIGHTS
EF-J	GREENHECK SP-A	JANITOR CLOSET	CEILING MTD	50	0.5	30 W	2.0	DIRECT	25	1-7	1-6,8	B. SWITCH

NOTES:
1. FAN SHALL BE AMCA OR HVI CERTIFIED FOR SOUND AND PERFORMANCE.
2. FAN SHALL BE UL LISTED FOR THE SPECIFIC APPLICATION AND LOCATION IT IS BEING USED.
3. SONE VALUES ARE VALUES MEASURED 5 FT FROM THE FAN – OPEN ENDED. SONE VALUES MUST NOT EXCEED SCHEDULED AMOUNT.
4. CONTRACTOR RESPONSIBLE FOR VERIFYING ARCHITECTURAL CONSTRUCTION FOR FAN INSTALLATION; PROVIDE SUPPORTS, BRACKETS, CURB, OR APPROPRIATE MOUNTING HARDWARE TO SECURE FAN TO STRUCTURE INCLUDING VIBRATION ISOLATION AS LISTED IN SPECIFICATIONS, EQUIPMENT NOTES, AND DETAILS.
5. PROVIDE TRANSITION TO ACTUAL FAN INLET/OUTLET FROM DUCT SIZE LISTED ON PLANS.
6. COORDINATE CEILING UNIT LOCATIONS WITH ARCHITECTURAL RCP.
7. FAN SHALL BE ON EMERGENCY POWER.

CONTROLS:
A. FAN SHALL BE INTERLOCKED WITH LIGHTS. SEE ELECTRICAL.
B. FAN SHALL BE CONTROLED BY WALL SWITCH.

ACCESSORIES:
1. BACKDRAFT DAMPER AT FAN DISCHARGE.
2. PROVIDE SUPPORTS TO HANG FAN FROM STRUCTURE (NOT LAY-IN CEILING TILE) FAN HANGING KIT WITH NEOPRENE PAD VIBRATION ISOLATORS. IF FAN HP EXCEEDS 1.0 PROVIDE SPRING ISOLATORS IN LIEU OF NEOPRENE.
3. FAN SHALL BE PROVIDED WITH ELECTRONICALLY COMMUTATED (EC) MOTOR AND FANS SPEED CONTROLLER.
4. PROVIDE VIBRATION ISOLATION HANGERS.
5. INTEGRAL THERMAL OVERLOAD PROTECTION.
6. PROVIDE DISCONNECT SWITCH INTEGRAL TO UNIT.
7. FAN SHALL BE RATED FOR CONTINOUS USE.
8. PROVIDE WITH MATCHING METAL PAINTABLE WALL CAP; NECK SIZE SAME AS DUCT SIZE SHOWN ON PLANS, UNO. COLOR SELECTION BY ARCHITECT AT TIME OF SHOP DRAWINGS. WALL CAP SHALL HAVE A BIRDSCREEN AND A BACKDRAFT DAMPER.

BASIS OF DESIGN: AS SCHEDULED; EQUAL BY: COOK, ACME

STUDIO8 design
architecture
2722 North Oak Street
Valdosta, Georgia 31602
P.(229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

Phillips Gradick Engineering, P.C.
8215 Roswell Road, Suite 925
Atlanta, GA 30350
Telephone: 770.650.9061 Fax: 770.642.2410
PGE Project No. 224015

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NEWBERRY COUNTY DETENTION CENTER
NEWBERRY, SOUTH CAROLINA

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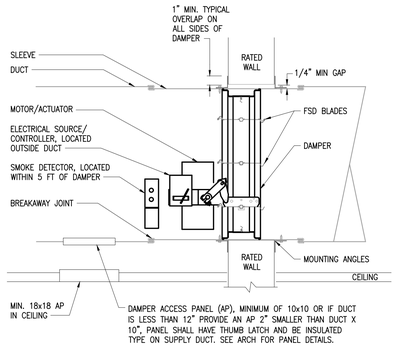
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HVAC SCHEDULES

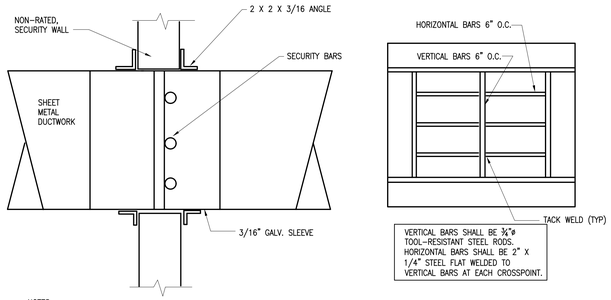
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DETAIL DOES NOT APPLY TO CURRENT DESIGN, BUT IT IS IN THIS SET IF FUTURE CHANGES TO THE PLANS REQUIRE IT.



NOTES:
1. DAMPER SHALL BE CLASS II LEAKAGE RATED, 250°F ACTUATOR RATING, POWER OPEN SPRING RETURN NORMALLY CLOSED.
2. DAMPER SHALL BE TRIPLE V-GROOVE CONSTRUCTION (FLAT STEEL REINFORCED).
3. FACTORY INSTALLED ACTUATOR – CANNOT BE FIELD INSTALLED.
4. FOLLOW MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS FOR THE NEED TO PROVIDE ANGLES OR FLANGES.
5. DAMPERS SHALL MEET THE REQUIREMENTS OF BOTH UL555 AND UL555S SMOKE DAMPER STANDARDS. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL SUPERCEDE NOTES OF THIS DETAIL.
6. DAMPER SHALL HAVE AN ELECTRIC FUSE LINK.
7. DAMPER SHALL BE EQUAL TO NAILOR MODEL 1221–OW, RUSKIN FSD360W, OR GREENHECK OFSD. MODEL NUMBERS ARE A GUIDE. PROVIDE MODELS THAT ARE APPROVED BY MANUFACTURER FOR THIS APPLICATION.
8. THE DAMPER SHALL BE CAPABLE OF RESETTING AFTER THE SIGNAL TO CLOSE CEASES. PROVIDE AN ACTUATOR TO CLOSE & OPEN DAMPER WHEN NECESSARY (SEE SEQUENCE ABOVE).
9. HVAC TO INSTALL SMOKE DETECTOR, FIRE ALARM CONTRACTOR TO PROVIDE SMOKE DETECTOR, ELECTRICAL TO PROVIDE POWER. SMOKE DETECTOR AND DAMPER TO BE MONITORED BY BUILDING FIRE ALARM SYSTEM. ALL DISCIPLINES TO COORDINATE.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DAMPER SIZE WITH MANUFACTURER TO MEET OR EXCEED MINIMUM INSIDE CLEAR DUCT DIMENSIONS, AND COORDINATE OPENING WITH OTHER TRADES.
11. OMIT CEILING ACCESS PANEL IF ACCESSIBLE CEILING IS USED. PANEL SHALL MATCH THE RATING OF THE CEILING – SEE ARCH DWGS FOR CEILING RATING.

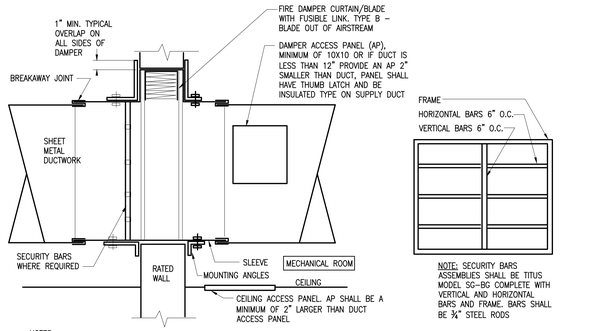
8 WALL MOUNTED FIRE/SMOKE DAMPER DETAIL
SCHEMATIC: NO SCALE



NOTES

1. SECURITY BARRIER ASSEMBLIES SHALL BE TITUS MODEL SG-BG OR EQUAL BY KRUEGER, ARROW, AND NAILER COMPLETE WITH VERTICAL AND HORIZONTAL BARS, SLEEVE, AND ANGLE FRAMES. ONE ANGLE FRAME SHALL BE FACTORY-WELDED IN PLACE; ONE SHALL SHIP LOOSE FOR FIELD INSTALLATION. TYPICAL MOUNTING ACCOMPLISHED BY SLIPPING THE SLEEVE THRU WALL, HOLDING THE FACTORY WELDED ANGLE TIGHT TO WALL, AND WELDING THE LOOSE ANGLE FRAME TIGHT TO WALL ON OPPOSITE SIDE.
2. OPENINGS IN ROOF OR CEILING DESIGNATED TO HAVE SECURITY BARS SHALL BE PROTECTED IN A SIMILAR MANNER TO THIS DETAIL, EXCEPT HORIZONTAL PLANE.
3. DETAIL FOR AN EXTERIOR LOUVER LOCATED IN A SECURITY WALL IS SIMILAR.

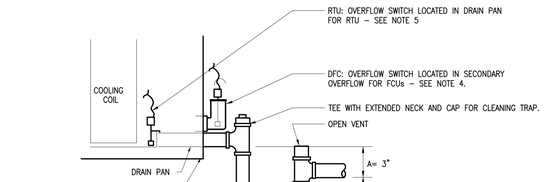
6 SECURITY BAR IN WALL DETAIL
SCHEMATIC: NO SCALE



NOTES

1. SLEEVE SHEET METAL GAUGE MUST BE EQUAL TO OR GREATER THAN THE DUCT CONNECTING TO IT.
2. PROVIDE A BREAKAWAY CONNECTION AS LISTED IN THE MANUFATURER'S INSTALLATION INSTRUCTIONS.
3. MOUNTING/RETAINING ANGLES (ANGLE IRON) MUST OVERLAP THE WALL A MINIMUM OF 1".
4. FD'S SHALL MEET THE REQUIREMENTS OF UL555.
5. FD SHALL BE EQUAL TO NAILOR 0220, RUSKIN IBD2 OR EQUAL. FUSEBLE LINK (UL LISTED) 165°.
6. LOCATE ACCESS PANEL (AP) TO COORDINATE WITH WALL OR CEILING ACCESS PANEL WHICH SHALL BE 2" LARGER THAN DUCT AP AND SPECIFIED BY ARCHITECT.
7. MOUNTING ANGLES SHALL BE AS SPECIFIED BY MANUFACTURER. INSTALL FD PER MANUFACTURER'S INSTRUCTIONS.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DAMPER SIZE WITH MANUFACTURER'S DIMENSIONS TO MEET OR EXCEED MINIMUM INSIDE CLEAR DUCT DIMENSIONS, AND COORDINATE WALL OPENING WITH OTHER TRADES.
9. OMIT CEILING ACCESS PANEL IF ACCESSIBLE CEILING IS USED. PANEL SHALL MATCH THE RATING OF THE CEILING – SEE ARCH DWGS FOR CEILING RATING.
10. ONLY PROVIDE SECURITY BARS IF INSTALLED IN SECURITY WALL.

5 FIRE DAMPER/SECURITY BAR DETAIL
SCHEMATIC: NO SCALE

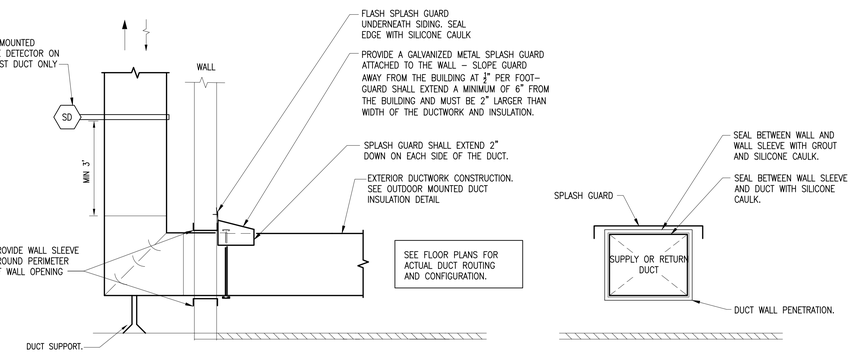


NOTES:
1. THIS DETAIL IS FOR A DRAW-THRU UNIT. CONTACT ENGINEER FOR A DIFFERENT TRAP CONFIGURATION IF A BLOW-THRU UNIT IS USED.
2. MINIMUM DRAIN FOR UNITS 5 TONS AND LESS SHALL BE 1". DRAINS FOR UNITS GREATER THAN 5 TONS SHALL BE 1.25" UNO.
3. PIPE MATERIAL SHALL BE AS NOTED IN HVAC GENERAL NOTES.
4. FOR DFCs: PROVIDE 24V, OVERFLOW SHUT OFF FLOAT SWITCH IN SECONDARY DRAIN OUTLET EQUAL TO RECTORSEAL 83417 ALL ACCESS A42P. INTERLOCK WITH UNIT TO SHUT DOWN UPON DETECTION OF CONDENSATE.
5. FOR RTUs: PROVIDE A 24V, CLIP-ON TYPE SWITCH EQUAL TO RECTORSEAL SAFE-T-SWITCH SS500EP IN UNIT DRAIN PAN IN LIEU OF SECONDARY DRAIN OUTLET MOUNTED SWITCH DESCRIBED IN NOTE 4.

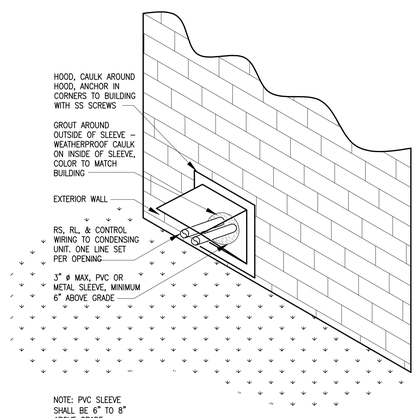
3 CONDENSATE DRAIN TRAP DETAIL
SCHEMATIC: NO SCALE

NOTES:
1. PROVIDE ADEQUATE CLEARANCES FOR HEAT PUMP UNITS PER MANUFACTURER'S INSTRUCTION.
2. INSTALL REFRIGERANT LINES FROM BUILDING TO HEAT PUMPS VIA MOST DIRECT ROUTE.
3. SUPPORT LINES WITH REFRIGERANT PIPING SUPPORT, SEE DETAIL.

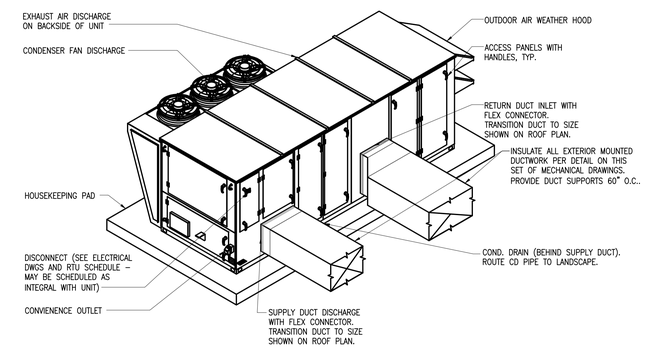
2 CONDENSING UINIT/HEAT PUMP MOUNTING ON GRADE
SCHEMATIC: NO SCALE



7 EXTERIOR DUCT INSTALLATION DETAIL
SCHEMATIC: NO SCALE



4 SPLIT SYSTEM LINESET THRU EXTERIOR WALL
SCHEMATIC: NO SCALE



NOTES:
1. ALL CONNECTIONS AND SERVICES MUST BE INSIDE THE PERIMETER CURB. DISCONNECT SWITCHES, BRACKETS, AND CONDUIT MUST BE CLEAR OF ALL UNIT PANELS AND AIR FLOW. ATTACH BRACKETS TO STRUCTURAL MEMBERS OF UNIT.
2. DO NOT MOUNT DISCONNECT SWITCH OVER NAMEPLATE OF UNIT.
3. IF NOT NOTED OTHERWISE, LINE SUPPLY AND RETURN DUCTS THE FIRST 10 FT FROM UNIT.
4. PAD: CONCRETE PAD (MINIMUM 6" THICK, 3000#) WITH WIRE MESH REINFORCEMENT 2 FT LARGER THAN UNIT ON ALL SIDES

1 GROUND MOUNTED RTU UNIT DETAIL
SCHEMATIC: NO SCALE

STUDIO8 design
architecture
2722 North Oak Street
Valdosta, Georgia 31602
P.(229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

Phillips Gradick Engineering, P.C.
8215 Roswell Road, Suite 925
Atlanta, GA 30350
Telephone: 770.650.9061 Fax: 770.642.2410
PGE Project No. 224015

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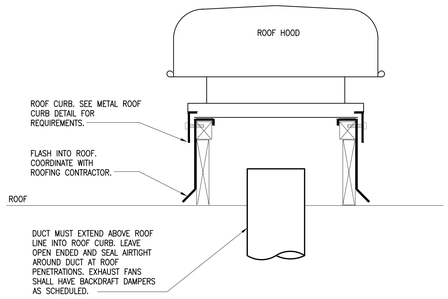
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 22853 CRAIG M. GRADICK 07/12/2024

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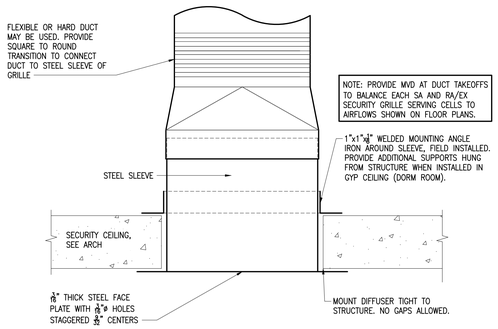
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HVAC DETAILS

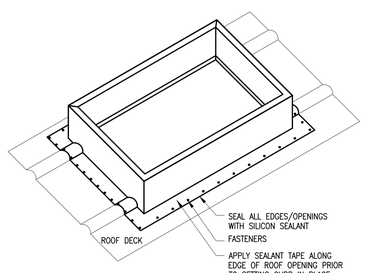
M0.3



12 ROOF HOOD DETAIL
SCHEMATIC: NO SCALE



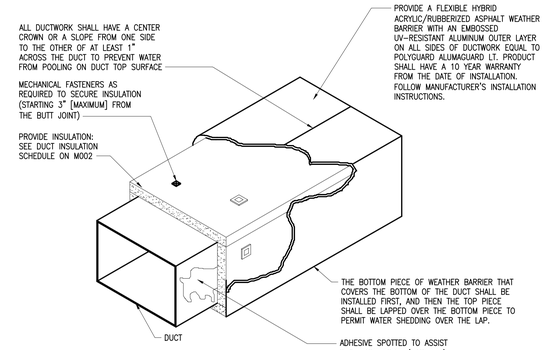
11 SECURITY SUPPLY GRILLE DETAIL
SCHEMATIC: NO SCALE



NOTES:

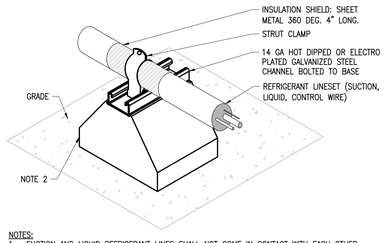
NOTES:
1. CURB TO BE PROVIDED AND INSTALLED BY ROOF CONTRACTOR.
2. LOCATE ROOF OPENING AND INSTALL SUPPORT FRAMING FOR ROOF CURB AND EQUIPMENT LOADS. PLACE SUPPORT FRAMING SO THAT AT LEAST TWO PARALLEL CURB WALLS REST ON SUPPORT FRAMING. LOADS SHALL NOT BE SUPPORTED BY A CANTILEVER CURB SECTION EXCEEDING 1'-0" IN LENGTH. CUT ROOF PANELS TO FIT OPENING OF CURB ON SLOPING SIDES AND OVERLAP RIB SIDES BY 3.5".
3. FINISH ALL EDGES OF CURB WITH A GOOD GRADE OF SILICON SEALANT TO ASSURE A WATERTIGHT SEAL. MAKE SURE ALL POSSIBLE OPENINGS FOR WATER ARE SEALED.
4. COORDINATE WITH STRUCTURAL ENGINEER PRIOR TO DOING ANY ROOF WORK.
5. BASIS OF CURB DESIGN AES INDUSTRIES MODEL AMBC-2.

10 METAL ROOF CURB DETAIL
SCHEMATIC: NO SCALE



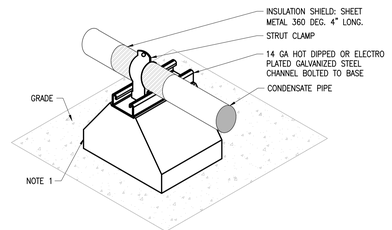
NOTE: SEE GENERAL NOTES FOR INSULATION CHARACTERISTICS AND FURTHER INSTALLATION REQUIREMENTS. THIS DETAIL APPLIES TO ALL ROOF MOUNTED OR EXTERIOR DUCT.

9 OUTDOOR MOUNTED DUCT INSULATION
SCHEMATIC: NO SCALE



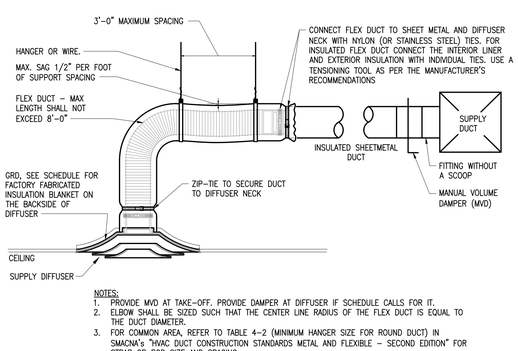
NOTES:
1. SUCTION AND LIQUID REFRIGERANT LINES SHALL NOT COME IN CONTACT WITH EACH OTHER.
2. UV RESISTANT, HIGH DENSITY POLYMER OR RUBBER PIPE SUPPORT BASE CAPABLE OF OUTDOOR INSTALLATION IN TEMPERATURE OF 0 TO 150 °F, WITH 14 GA GALVANIZED CHANNEL FOR ZINC PLATED STRUT CLAMPS. PROVIDE SUPPORT WIDE ENOUGH FOR SPECIFIC APPLICATION. MULTIPLE LINESETS CAN BE SUPPORTED BY EACH SUPPORT. PROVIDE SEPARATE STRUT CLAMP FOR EACH LINESET. EQUAL TO MIFAB C-RUBBER SUPPORT SERIES, PENTAIR CADDY PYRAMID ST, OR EQUAL.

8 REFRIGERANT PIPE SUPPORTS
SCHEMATIC: NO SCALE



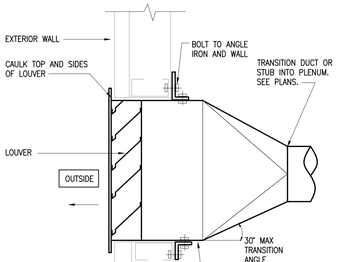
NOTES:
1. UV RESISTANT, HIGH DENSITY POLYMER OR RUBBER PIPE SUPPORT BASE CAPABLE OF OUTDOOR INSTALLATION IN TEMPERATURE OF 0 TO 150 °F, WITH 14 GA GALVANIZED CHANNEL FOR ZINC PLATED STRUT CLAMPS. PROVIDE SUPPORT WIDE ENOUGH FOR SPECIFIC APPLICATION. PROVIDE SEPARATE STRUT CLAMP FOR EACH PIPE. EQUAL TO MIFAB C-RUBBER SUPPORT SERIES, PENTAIR CADDY PYRAMID ST, OR EQUAL.

7 CONDENSATE PIPE SUPPORTS
SCHEMATIC: NO SCALE



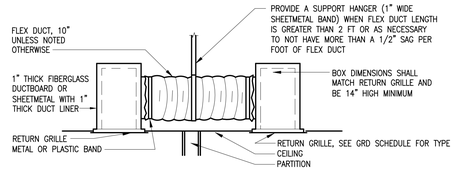
NOTES:
1. PROVIDE MVD AT TAKE-OFF. PROVIDE DAMPER AT DIFFUSER IF SCHEDULE CALLS FOR IT.
2. ELBOW SHALL BE SIZED SUCH THAT THE CENTER LINE RADIUS OF THE FLEX DUCT IS EQUAL TO THE DUCT DIAMETER.
3. FOR COMMON AREA, REFER TO TABLE 4-2 (MINIMUM HANGER SIZE FOR ROUND DUCT) IN SMACNA's "HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE – SECOND EDITION" FOR STRAP OR ROD SIZE AND SPACING.

6 DUCT TAKE-OFF
SCHEMATIC: NO SCALE

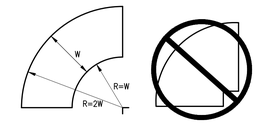


NOTES:
1. WALL LOUVER & DAMPER ASSEMBLY SHALL BE SUPPORTED BY BUILDING PROVIDER/MANUFACTURER. COORDINATE BETWEEN TRADES.

5 WALL LOUVER DETAIL
SCHEMATIC: NO SCALE

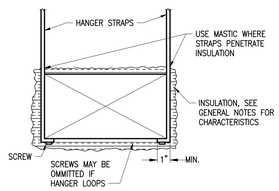


4 TRANSFER DUCT/GRILLE DETAIL
SCHEMATIC: NO SCALE



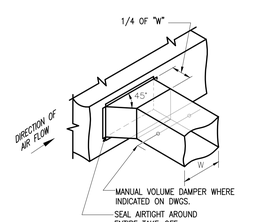
NOTES:
1. THE INNER RADIUS (R=W) SHALL BE A SMOOTH ROUND RADIUS. A 90° SQUARE CORNER INSTEAD OF AN INNER RADIUS IS NOT ALLOWED.

3 RECTANGULAR DUCT RADIUS ELBOW
SCHEMATIC: NO SCALE



NOTES:
1. REFER TO GENERAL NOTES OR DUCT CONSTRUCTION AND SEALING GUIDELINES.
2. REFER TO TABLE 4-1 (RECTANGULAR DUCT HANGERS MINIMUM SIZE) IN SMACNA's "HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE – SECOND EDITION."

2 RECTANGULAR DUCT SUPPORT DETAIL
SCHEMATIC: NO SCALE



1 45° DUCT TAKE-OFF
SCHEMATIC: NO SCALE

STUDIO8 design
architecture
2722 North Oak Street
Valdosta, Georgia 31602
P.(229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

Phillips Gradick Engineering, P.C.
8215 Roswell Road, Suite 925
Atlanta, GA 30350
Telephone: 770.650.9061 Fax: 770.642.2410
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SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — PHILLIPS GRADICK ENGINEERING, PC. — No. 4128

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER — No. 22853 — CRAIG M. GRADICK — 07/12/2024

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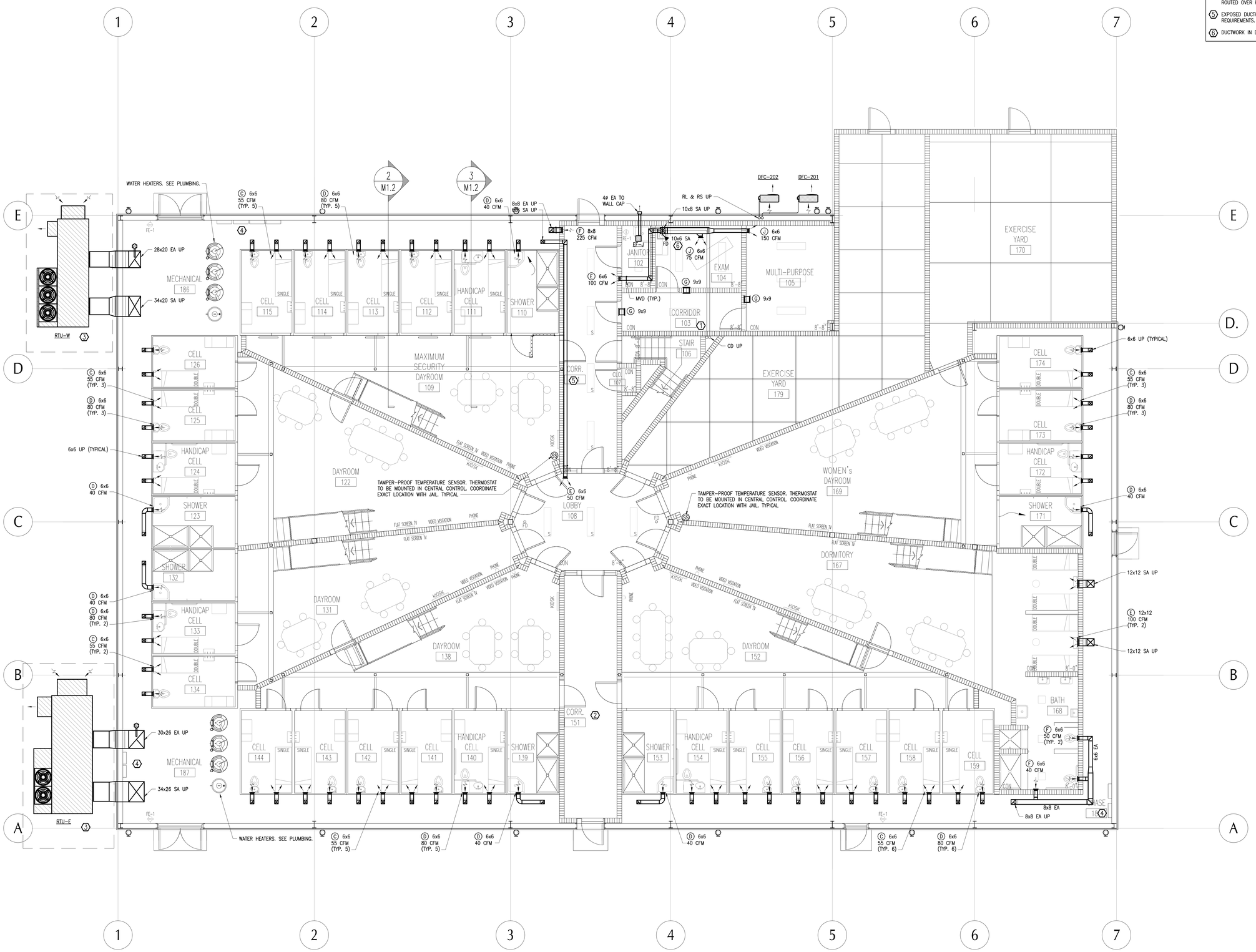
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HVAC DETAILS

M0.4

NOTES:
1. DETAILS ARE STILL APPLICABLE EVEN IF NOT DIRECTLY REFERENCED.
2. PROVIDE A MVD FOR EACH SUPPLY AND EXHAUST GRILLE IN DUCT IN CELL (SECURITY) AREAS. MVD FOR CELLS SHALL BE ADJUSTABLE THROUGH THE FACE OF THE GRILLE. SEE GRD SCHEDULE FOR REQUIREMENTS.
3. ANY DUCTWORK OR HVAC OPENING IN A SECURITY WALL THAT IS GREATER THAN 6" SHALL HAVE A SECURITY BAR. REFER TO ARCHITECTURAL DRAWINGS FOR SECURITY WALL DESIGNATIONS.
4. FRONT FACE ABOVE CELLS ARE NOT RATED. FSD IS NOT REQUIRED AT PENETRATIONS.
5. CONTRACTOR SHALL MAINTAIN 10' DISTANCE BETWEEN OUTSIDE AIR INTAKES AND ALL PLUMBING VENTS AND EXHAUST FANS.

KEY NOTES:
1. ROUTE 3/4" CONDENSATE FROM UPPER FLOOR TO MOP SINK. ROUTE PIPING INDIVIDUALLY (DO NOT COMBINE DRAIN LINES). COORDINATE LOCATION OF DRAIN WITH PLUMBING. SECURE PIPING TO WALL.
2. SEE UPPER FLOOR PLAN FOR AIR DISTRIBUTION.
3. ROUTE CONDENSATE FROM RTU TO SPILL ON GRADE. PIPING SHALL BE ROUTED AS TO NOT CREATE A TRIPPING HAZARD.
4. ELECTRICAL PANELS. SEE ELECTRICAL DRAWINGS FOR EXACT LOCATION. COORDINATE SO DUCTWORK IS NOT ROUTED OVER PANELS.
5. EXPOSED DUCTWORK. SEE GENERAL NOTES FOR REQUIREMENTS.
6. DUCTWORK IN DROPPED SOFFIT.



NORTH 1 M1.1 LOWER LEVEL HOUSING
SCALE: 3/16"=1'-0"

UPDATED BACKGROUNDS BY ARCHITECT 2

STUDIO8 chester architecture
2722 North Oak Street
Valosta, Georgia 31602
P.(229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

Phillips Gradick Engineering, P.C.
8215 Roswell Road, Suite 925
Atlanta, GA 30350
Telephone: 770.650.9061 Fax: 770.642.2410
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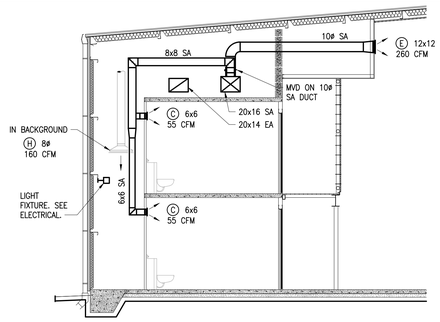
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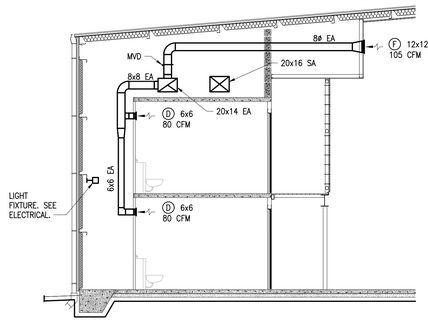
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HOUSING LOWER PLAN - HVAC

M1.1



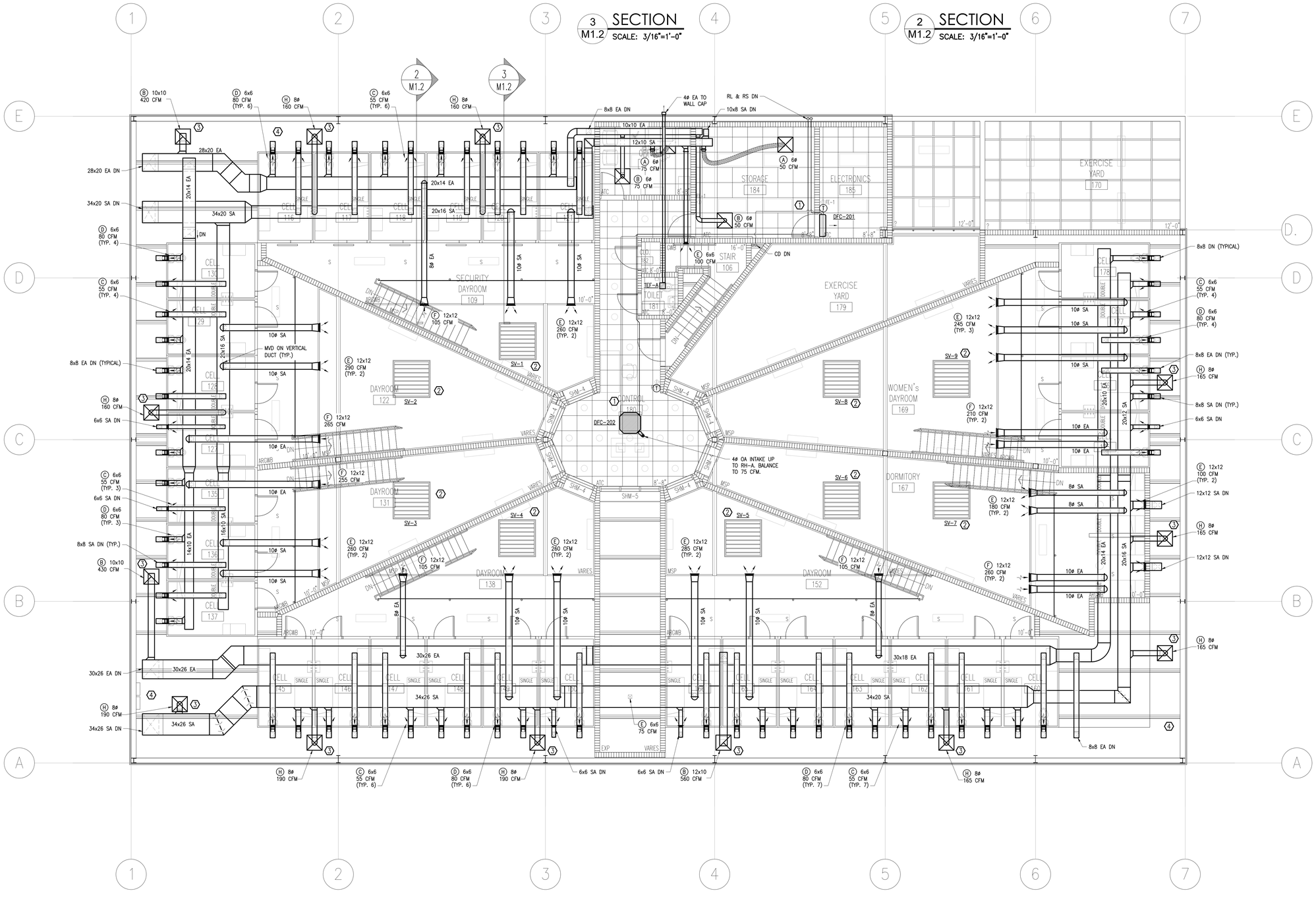


NOTES:
1. DETAILS ARE STILL APPLICABLE EVEN IF NOT DIRECTLY REFERENCED.
2. PROVDE A MVD FOR EACH SUPPLY AND EXHAUST GRILLE IN DUCT IN CELL/DAYROOM (SECURITY) AREAS. MVD FOR CELLS SHALL BE ADJUSTABLE THROUGH THE FACE OF THE GRILLE. SEE GRD SCHEDULE FOR REQUIREMENTS.
3. ANY DUCTWORK OR HVAC OPENING IN A SECURITY WALL THAT IS GREATER THAN 6" SHALL HAVE A SECURITY BAR. REFER TO ARCHITECTURAL DRAWINGS FOR SECURITY WALL DESIGNATIONS.
4. FRONT FACE ABOVE CELLS IS NOT RATED. FSD IS NOT REQUIRED AT PENETRATIONS.
5. CONTRACTOR SHALL MAINTAIN 10' DISTANCE BETWEEN OUTSIDE AIR INTAKES AND ALL PLUMBING VENTS AND EXHAUST FANS.

KEY NOTES:
1. ROUTE 3/4" CONDENSATE ABOVE CEILING TO MOP SINK ON LOWER FLOOR. ROUTE PIPING INDIVIDUALLY TO SINK (DO NOT COMBINE DRAIN LINES). SEE LOWER FLOOR PLAN FOR CONTINUATION.
2. SV-1,2,3,4,5,6,7,8,9: PROVIDE A SMOKE VENT WITH THE FOLLOWING CHARACTERISTICS: 5 FT X 5 FT SITTING ON A 12" TALL INSULATED CURB COMPATIBLE WITH METAL ROOF, TRANSLUCENT SKYLIGHT POLYCARBONATE DOME, A RELEASE LINK CAPABLE OF RECEIVING A 24 V SIGNAL (FROM THE FIRE ALARM SYSTEM) TO OPEN THE SKYLIGHT/DOME, INCORPORATING A HYDRAULIC DAMPENER AND TORSIONAL SPRING, UL LISTED FUSIBLE LINK FOR 165°, UL 793 LISTED (SMOKE VENT). BASIS OF DESIGN: MILCOR WITH A "McCABE" RESETTABLE ELECTRIC LINK. VERIFY VOLTAGE WITH FIRE ALARM CONTRACTOR PRIOR TO ORDERING.
3. MOUNT DIFFUSER IN THE MECHANICAL ROOM 12'-0" AFF. COORDINATE WITH ELECTRICAL TO AVOID LIGHT FIXTURES.
4. ELECTRICAL PANELS. SEE ELECTRICAL DRAWINGS FOR EXACT LOCATION. COORDINATE SO DUCTWORK IS NOT ROUTED OVER PANELS.

3 M1.2 SECTION
SCALE: 3/16"=1'-0"

2 M1.2 SECTION
SCALE: 3/16"=1'-0"



1 M1.2 UPPER LEVEL HOUSING
SCALE: 3/16"=1'-0"

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2722 North Oak Street
Valdosta, Georgia 31602
P.(229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

Phillips Gradick Engineering, P.C.
8215 Roswell Road, Suite 925
Atlanta, GA 30350
Telephone: 770.650.9061 Fax: 770.642.2410
PGE Project No. 224015

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A HOUSING FACILITY FOR
NEWBERRY COUNTY
DETENTION CENTER
NEWBERRY, SOUTH CAROLINA

SOUTH CAROLINA
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No. 4128
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SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 22853
CRAIG M. GRADICK
07/12/2024

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HOUSING UPPER PLAN - HVAC

M1.2

BUILDING LIGHTING FIXTURE SCHEDULE

VERIFY CEILING TYPE WITH ARCHITECTUAL REFLECTIVE CEILING PLAN PRIOR TO ORDERING FIXTURES

TYPE	DESCRIPTION	MANUFACTURER CATALOG NO.	VOLTAGE	LAMPS	NOTES
A	LED ROUND VANDAL RESISTANT CELL LIGHT WITH SEPARATE CIRCUIT NIGHT LIGHT, 40 WATTS, 4010 LUMENS, 5000K	SHAT R SHIELD LIGHTING VR PRO	120	INCLUDED	
A1	WALL MOUNTED LED LINEAR GENERAL DUTY LIGHT, 80 WATTS, 8231 LUMENS, 5000K, 45 DEGREE TILT	SHAT R SHIELD LIGHTING 080GDL50CMNVHPCJBTB0001	120	INCLUDED	
A2	WALL MOUNTED LED LINEAR GENERAL DUTY LIGHT, WITH SEPARATE CIRCUIT NIGHT LIGHT, 40 WATTS, 3700 LUMENS, 5000K. 45 DEGREE TILT	SHAT R SHIELD LIGHTING 040GDL50CMYVHPCJBTB0001	120		
B	LED ROUND VANDAL RESISTANT SHOWER LIGHT, 32 WATTS, 3350 LUMENS, 5000K	SHAT R SHIELD LIGHTING H20 PRO	120	INCLUDED	
C	LED LINEAR GENERAL DUTY LIGHT, 80 WATTS, 8231 LUMENS, 5000K	SHAT R SHIELD LIGHTING 080GDL50CMNVHPC00TB0001	120	INCLUDED	
C1	LED LINEAR GENERAL DUTY LIGHT, WITH SEPARATE CIRCUIT NIGHT LIGHT, 40 WATTS, 3700 LUMENS, 5000K	SHAT R SHIELD LIGHTING 040GDL50CMYVHPC00TB0001	120	INCLUDED	
C2	LED LINEAR GENERAL DUTY LIGHT, 40 WATTS, 4752 LUMENS, 5000K, SURFACE MOUNTED BOX	SHAT R SHIELD LIGHTING GDL	120	INCLUDED	
C2B	LED LINEAR GENERAL DUTY LIGHT, 40 WATTS, 4752 LUMENS, 5000K BATTERY BACKUP, SURFACE MOUNTED BOX	SHAT R SHIELD LIGHTING GDL INTEGRAL BATTERY	120	INCLUDED	
D	6" LED DOWN LIGHT 3500K, 1,000 LUMENS DIMMING DRIVER, 13 WATTS	PRESCOLITE LBRP-M-LSSLCS9	120	INCLUDED	
DB	6" LED DOWN LIGHT 3500K, 1,000 LUMENS DIMMING DRIVER, 13 WATTS, 10W EMERGENCY BATTERY PACK	PRESCOLITE LBRP-M-LSSLCS9-EMR	120	INCLUDED	
EM	EMERGENCY LIGHT, WHITE, 6350K,405 LUMENS, BATTERY PACK	DUALLITE PGW	120	INCLUDED	
E	2'x4' LED PANEL, 3500K, 6048 LUMENS, 50 WATTS	COLUMBIA CBT24-A-LSCS-EDD-2PK	120	INCLUDED	
EB	2'x4' LED PANEL, 3500K, 6048 LUMENS, 50 WATTS, EMERGENCY BATTERY PACK	COLUMBIA CBT24-A-LSCS-EDD-ELL14	120	INCLUDED	
G	4' LED STRIP, 4000K, 5000 LUMENS, 41.5 WATTS WITH CURVE FROSTED LENS, WIDE DISTRIBUTION	COLUMBIA MPS4 40HL CW EDU	120	INCLUDED	
H	24" LED WALL MOUNTED, 4000K, 5546 LUMENS, 50 WATTS	KIM PVNT/2-2/40/40K8/D01/UNV/C/WHT/TR	120	INCLUDED	
HB	24" LED WALL MOUNTED, 4000K, 5546 LUMENS, 50 WATTS, 1200 LUMEN BATTERY	KIM PVNT/2-2/40/40K8/D01/UNV/C/WHT/TR/EM	120	INCLUDED	
K	46" LED WALL MOUNTED, 4000K, 6435 LUMENS, 50 WATTS	KIM PVNT/2-4/55/40K8/D01/UNV/C/WHT/TR	120	INCLUDED	
KB	46" LED WALL MOUNTED, 4000K, 6435 LUMENS, 50 WATTS, 1200 LUMEN BATTERY	KIM PVNT/2-4/55/40K8/D01/UNV/C/WHT/TR/EM	120	INCLUDED	
L	6" LED DOWN LIGHT 3500K, 1,000 LUMENS 13 WATTS	PRESCOLITE LBRP-M-LSSLCS9	120	INCLUDED	
LB	6" LED DOWN LIGHT 3500K, 1,000 LUMENS, 13 WATTS, 10W EMERGENCY BATTERY PACK	PRESCOLITE LBRP-M-LSSLCS9-EMR	120	INCLUDED	
X	LED EXIT SIGN, ALUMINUM HOUSING/ GREEN LETTERS, UNIVERSAL MOUNTING, BATTERY PACK	DUALLITE EVE4XGWE1	120	INCLUDED	
OA	LED WALL PACK WITH PHOTOCELL, 5000K, 3,900 LUMENS MIN., TYPE 3 DISTRIBUTION, COLOR BY ARCHITECT 40 WATTS	RAYON T652LEDB-WS1-UNV-CTS-T3-BZ-PC	120	INCLUDED	
OB	4' LED STRIP, 4000K, 5812 LUMENS, 42 WATTS WITH WIRE GUARD, DAMP LOCATION	COLUMBIA LCS4 50ML-EU-CSWG4	120	INCLUDED	

ADDITIONAL APPROVED LIGHT FIXTURE MANUFACTURES EXCEPT TYPE A,A1,A2,B,C,C1,C2:

HUBBELL
KENALL
LITHONIA

ELECTRICAL GENERAL NOTES

1 • VISIT SITE PRIOR TO ANY WORK TO DETERMINE LOCATION AND EXTENT OF WORK.

2 • ANY SHUTDOWN OF EXISTING SYSTEMS NEEDED FOR NEW WORK SHALL BE COORDINATED WITH OWNER'S REPRESENTATIVE PRIOR TO ANY WORK.

3 • BRANCH CIRCUITS SHALL BE LIMITED TO 3 CIRCUITS PER CONDUIT, UNLESS OTHERWISE NOTED.

4 • FURNISH AND INSTALL A "GREEN" GROUNDING CONDUCTOR IN ALL BRANCH CIRCUITS, SIZED AS SHOWN ON THE DRAWINGS OR PER NEC TABLE 250.122.

5 • IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE LIGHTS, HVAC REGISTERS AND SPRINKLERS. IN ADDITION, THE CONTRACTOR SHALL VERIFY CEILING TYPES PRIOR TO ORDER FIXTURES.

6 • IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ELECTRICAL WITH MECHANICAL EQUIPMENT REGARDING VOLTAGE AND PHASE. FAILURE TO DO SO DOES NOT ENTITLE THE CONTRACTOR TO A CHANGE ORDER FOR INCOMPATIBLE EQUIPMENT AND SERVICE CHARACTERISTICS.

7 • DATA AND PHONE WIRING IS NOT INCLUDED IN THE ELECTRICAL CONTRACTOR WORK BASED ON THESE DRAWINGS.

8 • THE CONTRACTOR SHALL PROVIDE "EXPANSION JOINTS" IN CONDUIT RUNS THAT CROSS THESE JOINTS WITHIN THE BUILDING.

9 • THE METAL DECK MAY "NOT" BE USED AS STRUCTURAL SUPPORT; SUPPORT ELEC. EQUIP. FROM STEEL MEMBERS. PROVIDE UNISTRUT HANGERS AS NECESSARY

10 • ALL LIGHTING FIXTURES SHALL BE SUPPORTED INDEPENDENT OF THE CEILING USING #12 GALVANIZED STEEL WIRES, TWO WIRES AT OPPOSITE CORNERS OF THE FIXTURES.

11 • ALL ITEMS ON THE DRAWINGS SHALL BE NEW AND BEAR THE U.L. LABEL.

12 • ALL CONDUCTORS SHALL BE #12 AWG UNLESS OTHERWISE NOTED.

13 • THE CONTRACTOR SHALL COORDINATE THE LOCATION OF THE TRANSFORMER WITH THE LOCAL UTILITY COMPANY. FURTHER HE SHALL OBTAIN A DETAIL OF THE CONCRETE PAD FOR THE TRANSFORMER AND COORINATE ANY METERING EQUIPMENT TO BE FURNISHED AND SHALL DO SO AT NO ADDITIONAL COST TO THE OWNER.

14 • WHERE WALLS ARE FIRE OR SMOKE RATED THE CONTRACTOR SHALL DO HIS INSTALLATION TO PREVENT VIOLATING THE INTEGRITY OF THE WALL, THIS MEANS COMPLYING WITH ALL U.L. REGULATIONS.

15 • FIRE WALLS MAY NOT HAVE BACK-TO-BACK BOXES. PROVIDE MINIMUM 24" SPACE HORIZONTALLY BETWEEN BOXES AT OPPOSITE WALLS.

16 • FIRE WALLS SHALL HAVE PUTTY PADS ON METALLIC BOXES UNLESS BOXES ARE RATED FOR RATING OF THE WALL.

17 • PROVIDE A #6 AWG INSULATED GROUND WIRE FROM BUILDING GROUND TO EACH TELEPHONE BACKBOARD AND/OR MDF (HUB/ROUTER ROOM) AND TERMINATE USING A TERMINAL STRIP THAT CONTAINS NO LESS THAN TEN (10) PLACES FOR ADDITIONAL WIRES. PROVIDE 10' OF SLACK GROUND WIRE AT BACKBOARD.

18 • DO NOT SCALE DRAWINGS, LOCATION OF EQUIPMENT ARE APPROXIMATE, ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO PROVIDE PROPER WORKING CLEARANCE.

19 • THE GENERAL CONTRACTOR SHALL PROVIDE NOTICE TO THE ARCHITECT/ENGINEER THAT THERE HAS BEEN A FACE-TO-FACE MEETING WITH THE DIVISION 26 AND ELECTRONIC SECURITY CONTRACTORs/VENDORS TO COORDINATE THEIR WORK. THIS MUST BE DONE PRIOR TO ORDERING ANY EQUIPMENT AND SHALL SERVE TO MATCH THE VOLTAGE AND PHASE OF THE EQUIPMENT WITH THE ELECTRICAL CHARACTERISTICS. AFTER THIS MEETING HAS BEEN HELD THE GENERAL CONTRACTOR SHALL PROVIDE NOTICE (IN WRITING) TO THE A/E THAT THIS HAS BEEN DONE AND THERE ARE NO DISCREPANCIES.

20 • ALL CONDUCTORS FOR EXTERIOR LIGHTING CIRCUITS SHALL BE MINIMUM #10 AWG (UNLESS OTHERWISE NOTED), EXCEPT THE CONDUCTORS FROM THE HANDHOLE UP THE POLE TO THE BALLAST MAY BE #12 AWG.

21 • IT IS MANDATORY FOR THE ELECTRICAL CONTRACTOR, SPECIFICALLY THE ELECTRICAL FIELD SUPERINTENDENT MEET WITH THE MECHANICAL CONTRACTOR TO INSURE THAT THE VOLTAGE, PHASE, MCA, AND MOCP OF THE MECHANICAL AND PLUMBING EQUIPMENT ORDERED MATCHES THE VOLTAGES SHOWN ON THE ELECTRICAL DRAWINGS. ANY DEVIATIONS FROM THE DRAWINGS MUST BE RESOLVED WITH THE ELECTRICAL ENGINEER OTHERWISE THE EQUIPMENT IS "REJECTED". IF THERE ARE ANY QUESTIONS CONTACT STEVE THOMAS AT 770.407.7189 OR EMAIL AT sthomas@pgeng.net.

22 • THE ELECTRICAL CONTRACTOR, AS HIS FIRST ORDER OF BUSINESS, SHALL FURNISH A COPY OF THE "MECHANICAL EQUIPMENT CONNECTION SCHEDULES (SHEET E3.0)" TO THE MECHANICAL CONTRACTOR TO ASSIST IN HIS SELECTION OF MECHANICAL & PLUMBING EQUIPMENT VOLTAGE AND PHASE.

23 • IDENTIFICATION: JUNCTION BOXES FOR EMERGENCY CIRCUITS SHALL BE LABELLED WITH TEXT IN RED INDELIBLE MARKER AND NORMAL SHALL BE WITH BLACK MARKER. ALL JUNCTION BOXES SHALL BE IDENTIFIED.

24 • COVER PLATES FOR EMERGENCY RECEPTACLES SHALL BE RED, COVER PLATES FOR NORMAL RECEPTACLES SHALL BE THE COLOR SELECTED BY THE ARCHITECT.

25 • DO NOT CHANGE THE ARRANGEMENT OF THE PANELS AND TRANSFORMERS WITHOUT WRITTEN PERMISSION FROM THE ELECTRICAL ENGINEER.

26 • IT IS MANDATORY THAT THE CODE REQUIRED CLEARANCES BE PROVIDE IN FRONT OF THE PANEL BOARDS; EITHER 36" OR 48" DEPENDING ON THE VOLTAGE. DO NOT ALLOW THE OTHER TRADES TO RUN DUCTWORK OR PIPING OVER THE TOP OF THE PANELS BECAUSE THIS IS VIOLATION OF THE NATIONAL ELECTRICAL CODE.

ELECTRICAL ABBREVIATIONS

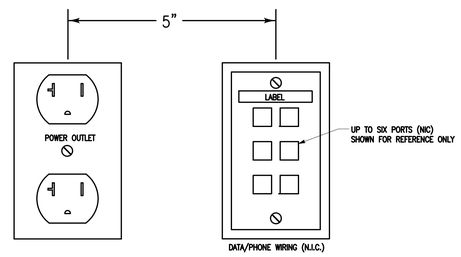
A/E	ARCHITECT / ENGINEER
ACT	ABOVE COUNTERTOP OR BACKSPLASH
AC	ALTERNATING CURRENT
AU	ALUMINUM
AMP	AMPERES
AFF/AFG	ABOVE FINISHED FLOOR/GRADE
AHU	AIR HANDLING UNIT
APPROX	APPROXIMATELY
ARCH	ARCHITECTURAL
AWG	AMERICAN WIRE GAUGE
BD	BOARD
BLDG	BUILDING
CAB	CABINET
CAP	CAPACITY
CKT	CIRCUIT
CLG	CEILING
C/B	CIRCUIT BREAKER
C/L	CENTER LINE
COL	COLUMN
COND/C	CONDUIT
CONN	CONNECTION
CONT	CONTINUATION
C&P	CORD AND PLUG
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER
DET	DETAIL
DF/EDF	ELECTRICAL DRINKING FOUNTAIN
DN	DOWN
DS	DISCONNECT SWITCH
DWG	DRAWING
EA	EACH
EC	EMPTY CONDUIT
EF	EXHAUST FAN
ELEC	ELECTRIC
EQ	EQUIPMENT
EX	EXISTING
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FIX	FIXTURE
FL	FLOOR
FU	FUSED
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND/G	GROUND
HP	HORSEPOWER
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATT
KAIC	KILO-AMPERE INTERRUPTING CAPACITY
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MECH	MECHANICAL
MISC	MISCELLANEOUS
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTR	MOTOR
MTD	MOUNTED
MLO	MAIN LUG ONLY
MRS	MOTOR RATED SWITCH
NEC	NATIONAL ELECTRICAL CODE
NF	NONFUSED
NO.	NUMBER
N.O.	NORMALLY OPEN
N.C.	NORMALLY CLOSED
NTS	NOT TO SCALE
PNL	PANEL
PVC	POLYVINYL CHLORIDE CONDUIT
P.B.	PUSH BUTTON
RTU	ROOF TOP UNIT
RECPT	RECEPTACLE
SH	SHEET
SW	SWITCH
TR	TRANSFORMER
UNO	UNLESS NOTED OTHERWISE
WP	WEATHER PROOF

ELECTRICAL LEGEND

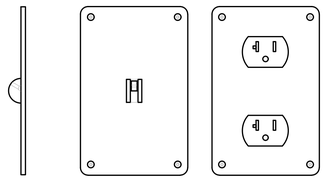
	RACEWAY EXPOSED TO VIEW UNLESS OTHERWISE NOTED
	RACEWAY CONCEALED IN CEILING CAVITY, OR WALL
	RACEWAY CONCEALED IN FLOOR, SLAB OR UNDERGROUND
	RACEWAY CONCEALED IN CEILING CAVITY, OR WALL (EMERGENCY CIRCUIT)
S	WALL SWITCH-SINGLE POLE SINGLE THROW, 48" AFF
S_o	WALL OCCUPANCY SENSOR, 48" A.F.F.
S_3	WALL SWITCH 3WAY-SINGLE POLE DOUBLE THROW, 48"AFF
S*	WALL SWITCH-SINGLE POLE SINGLE THROW, 48" AFF, SPECIAL COVER PLATE ASTRICK DENOTES SECURITY COVER PLATE, SEE DETAIL 1/E0.1
S_3*	WALL SWITCH 3-WAY-SWITCH, 48"AFF, WITH SPECIAL COVER PLATE. ASTRICK DENOTES SECURITY COVER PLATE, SEE DETAIL 1/E0.1
D	DIMMER SWITCH, 48" A.F.F.
*	DUPLEX RECEPTACLE, WALL MOUNTED 18" AFF ASTRICK DENOTES SECURITY COVER PLATE, SEE DETAIL 1/E0.1
*	DUPLEX RECEPTACLE, WALL MOUNTED 48" AFF, OR 6" ABOVE COUNTER ASTRICK DENOTES SECURITY COVER PLATE, SEE DETAIL 1/E0.1
	QUAD RECEPTACLE, WALL MOUNTED 18" AFF
	DUPLEX "GFCI" RECEPTACLE, WALL MOUNTED 18" AFF
	DUPLEX "GFCI" RECEPTACLE, WALL MOUNTED 48" AFF
	SPECIAL OUTLET WALL MOUNTED, 18" AFF U.N.O.
	DUPLEX RECEPTACLE, IN FLUSH FLOOR BOX
e	RED RECEPTACLE, WALL MOUNTED 18" AFF, UNLESS NOTED OTHERWISE e DENOTES CONNECTED TO EMERGENCY SYSTEM, PROVIDE RED COVERPLATE
	PANELBOARD
30/3/1	HEAVY DUTY DISCONNECT SWITCH (AMPS/POLES/NEMA RATING)
30/3/1,30AF	HEAVY DUTY FUSED DISCONNECT SWITCH (AMPS/POLES/NEMA RATING, FUSE SIZE)
	MOMENTARY CONTACT PUSHBUTTON FOR CELL NITE LITE MTD IN DOOR FRAME (6A-120VAC) BRINK 201010; FURNISHED, INSTALLED & WIRED BY DIV. 26.
J / J	JUNCTION BOX, CEILING OR WALL MOUNTED
	LED WALL MOUNTED FIXTURE AND FLUSH OUTLET BOX
	2' x4' LED RECESSED FIXTURE.
	RECESSED LED DOWNLIGHT FIXTURE
	LED STRIP FIXTURE, SURFACE OR PENDANT
	2'x2' LED RECESSED FIXTURE
	1'x4' LED RECESSED FIXTURE
/	LED EXIT SIGN, CEILING/WALL MOUNTED ARROWS AS REQUIRED
	LED EMERGENCY LIGHT

FIRE ALARM LEGEND

T F P	FIRE ALARM TAMPER, FLOW PRESSURE SWITCH (COORDINATE EXACT LOCATION WITH SPRINKLER SHOP DRAWINGS)
SD	SMOKE DETECTOR AIR DUCT MOUNTED
FACP	FIRE ALARM CONTROL PANEL



2 / E0.1 TYPICAL OUTLET CONFIGURATION
NOT TO SCALE



AN ASTERICK BESIDE THE DEVICE ON THE FLOOR PLAN DENOTES ONE OF THE PLATES HERE.

NOTES:

1) THE COVER PLATES ARE STEEL, 10 GUAGE WITH FOUR COUNTERSUNK SECURITY SCREWS. SECURITY SCREWS SHALL BE TORX HEAD WITH CENTER PIN.

2) THE SECURITY COVER PLATE SHALL BE ATTACHED TO THE METALLIC BOX USING A BACKPLATE. THE BACKPLATE IS MANDATORY. SECURITY COVER PLATES WITHOUT THE BACKPLATE WILL BE REJECTED.

3) ALL SECURITY PLATES SHALL HAVE FOUR (4) TORX HEAD WITH CENTER PIN FASTENERS.

4) COVER PLATE SHALL FIT AGAINST THE WALL FLAT WITH NO GAP BETWEEN THE COVER PLATE AND THE WALL.

5) SECURITY COVER PLATES ARE REQUIRED THROUGHOUT THE FACILITY EXCEPT THE CONTROL ROOMS AND THE SHERIFF'S OFFICE AREA.

6) SECURITY COVER PLATES SHALL BE AS MANUFACTURED BY FAIL-SAFE, KENALL OR APPROVED EQUAL.

7) COVER PLATE FINISH SHALL BE WHITE URETHANE POWDER COAT – 5 STAGE IRON PHOSPHATE PRE-TREATMENT. REFLECTANCE 92%; GLOSS 85% (MINIMUM) AT 60 DEGREES; HARDNESS 2H; SALT SPRAY TEST 1,000 HOURS.

1 / E0.1 SECURITY COVER PLATES
NOT TO SCALE

STUDIO8 design
architecture
2722 North Oak Street
Valdosta, Georgia 31602
P.(229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

Phillips Gradick Engineering, P.C.
8215 Roswell Road, Suite 925
Atlanta, GA 30350
Telephone: 770.650.9061 Fax: 770.642.2410
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CHAD ROGERS

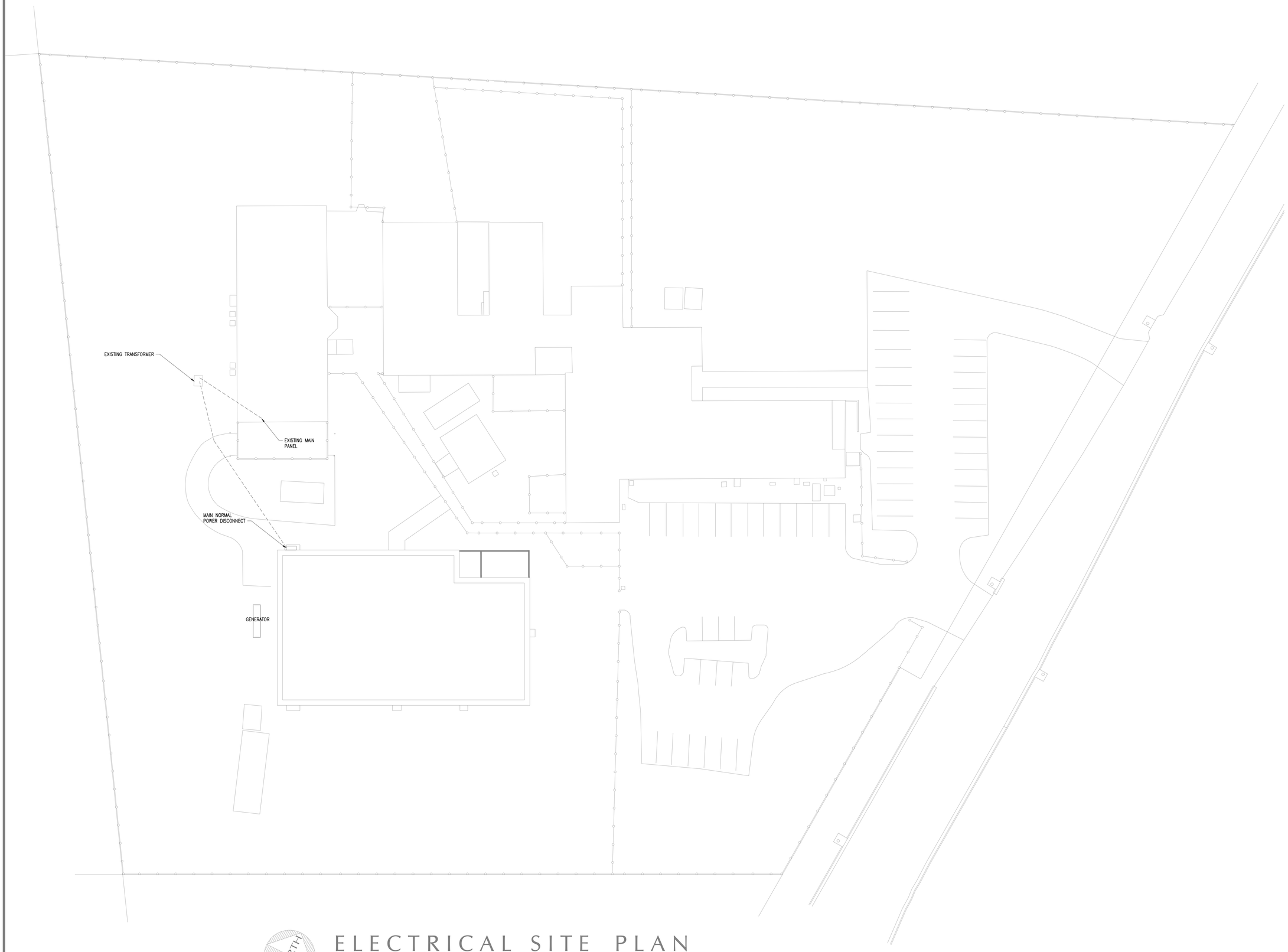
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REV.		REV.	
REV.		REV.	
REV.		REV.	

LEGEND

E0.1



ELECTRICAL SITE PLAN

NORTH

SCALE: 1"=20'
0 10' 20' 40' 60'

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architecture
2722 North Oak Street
Valdosta, Georgia 31602
P. (229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

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PROFESSIONAL ENGINEER
CHAD GRADICK
07/12/2024

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SITE PLAN

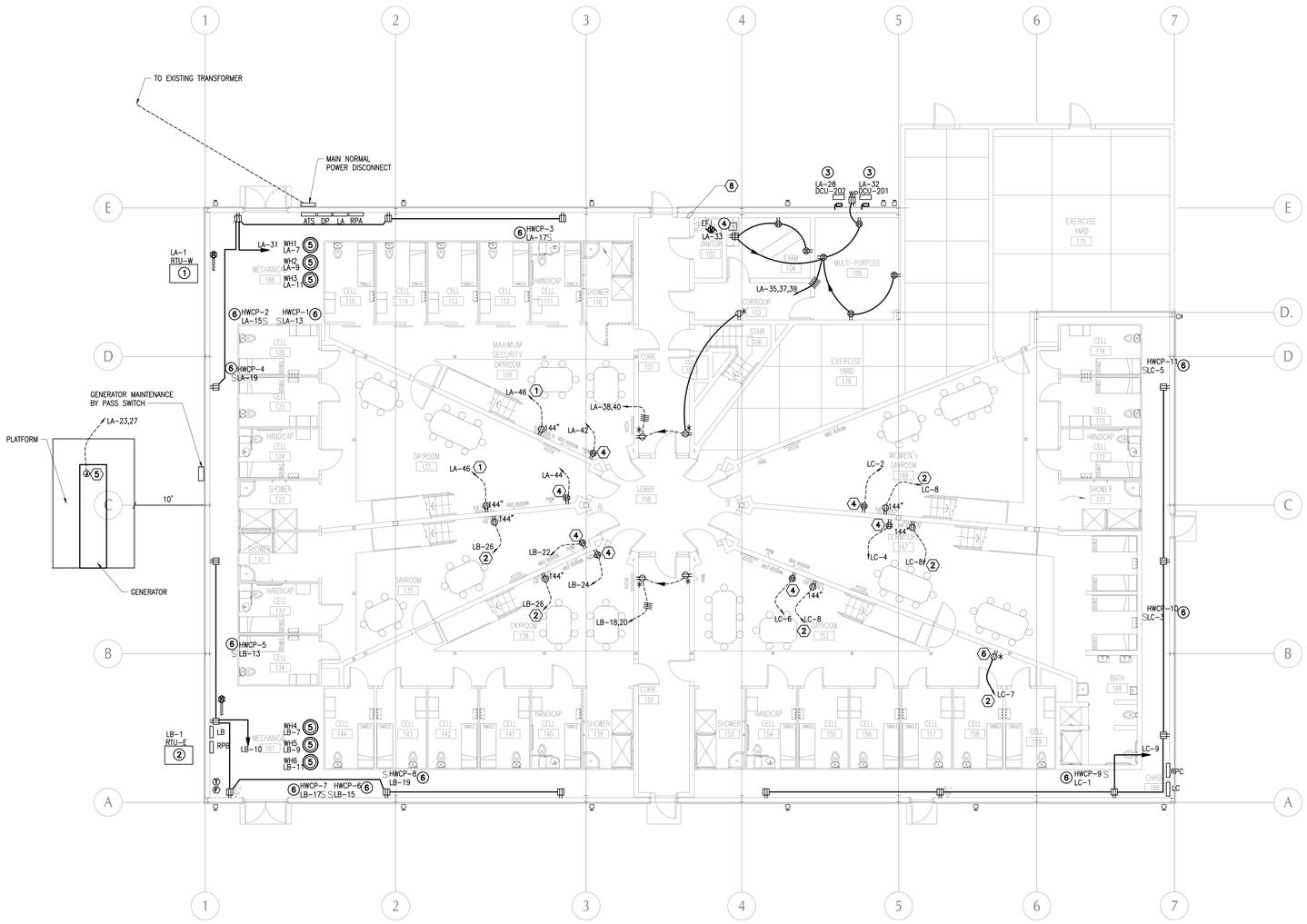
E1.1

GENERAL NOTES

1. (#) INDICATES HVAC EQUIPMENT. SEE E6.1 FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULE
2. BRANCH CIRCUIT MAY BE COMBINED WITH NO MORE THAT THREE HOT CONDUCTORS PER HOME RUN, EACH HOT CONDUCTOR SHALL HAVE A DEDICATED NEUTRAL
3. PROVIDE CONNECTION TO FIRE/SMOKE DAMPER FROM UNSWITCHED 120V CIRCUIT, REFER TO MECHANICAL DRAWINGS FOR LOCATION PRIOR TO ROUGH IN

KEY NOTES

1. ROUTE CIRCUIT TO INDIVIDUAL RELAY IN RELAY PANEL RPA, 2#10, #10G 1/2"C
2. ROUTE CIRCUIT TO INDIVIDUAL RELAY IN RELAY PANEL RPB, 2#10, #10G 1/2"C
3. ROUTE CIRCUIT TO INDIVIDUAL RELAY IN RELAY PANEL RPC, 2#10, #10G 1/2"C
4. FOR TABLET CHARGING STATION, COORDINATE MOUNTING LOCATION WITH OWNER PRIOR TO ROUGH IN
5. #10 ENTIRE CIRCUIT
6. FOR GENERATOR BLOCK HEATER AND BATTERY CHARGER, PROVIDE 2#10, #10G(BLOCK HEATER), 2#12, #12G(BATTERY CHARGER) 2"C
7. FOR MEDICAL MACHINE
8. CONDUIT WITHIN OUTLINED AREA SHALL BE CONCEALED IN THE SLAB WHERE THERE ARE EXPOSED CEILINGS, IF CONDUIT CANNOT BE CONCEALED AND MUST BE EXPOSED IT SHALL BE SUPPORTED 2' ON CENTER WITH SECURITY/VANDAL RESISTANT SCREWS TO PREVENT IT FROM BEING RIPPED OFF THE WALL



1 E2.1 LOWER LEVEL HOUSING
SCALE: 1/8"=1'-0"

UPDATED BACKGROUNDS BY ARCHITECT

STUDIO8 design architecture
2722 North Oak Street
Valdosta, Georgia 31602
P.(229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

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SOUTH CAROLINA PROFESSIONAL ENGINEER CHAD GRADICK
06/04/2025

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REV.		REV.	

HOUSING LOWER PLAN - POWER

E2.1

GENERAL NOTES

1. (#) INDICATES HVAC EQUIPMENT. SEE E6.1 FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULE
2. BRANCH CIRCUIT MAY BE COMBINED WITH NO MORE THAT THREE HOT CONDUCTORS PER HOME RUN, EACH HOT CONDUCTOR SHALL HAVE A DEDICATED NEUTRAL
3. PROVIDE CONNECTION TO FIRE/SMOKE DAMPER FROM UNSWITCHED 120V CIRCUIT, REFER TO MECHANICAL DRAWINGS FOR LOCATION PRIOR TO ROUGH IN
4. PROVIDE CONNECTION TO SKYLIGHTS FROM UNSWITCHED 120V CIRCUIT, REFER TO MECHANICAL DRAWINGS FOR LOCATION PRIOR TO ROUGH IN

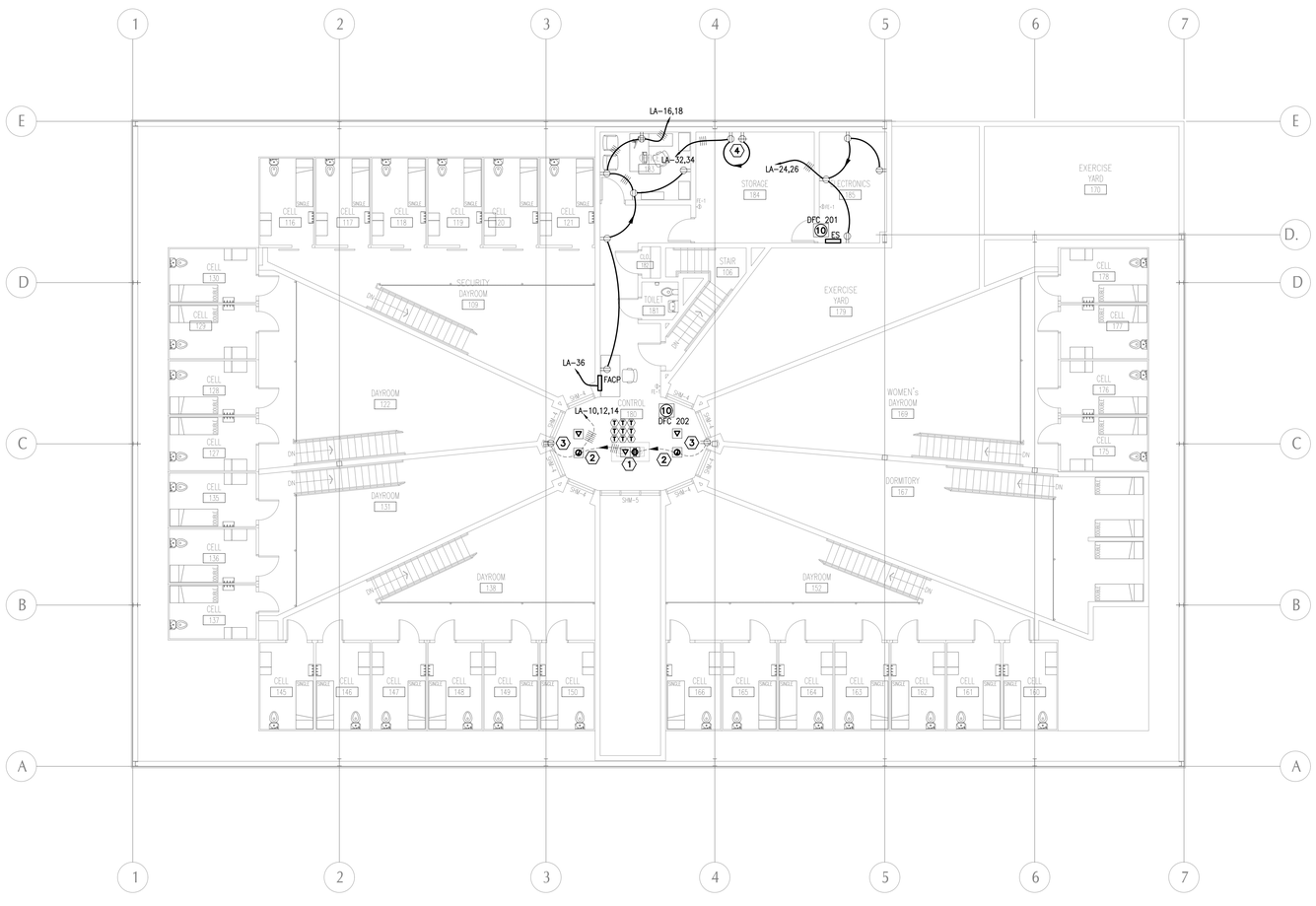
KEY NOTES

(1) TWO COMPARTMENT FLOOR BOX WITH COVER, ONE POWER COMPARTMENT WITH DUPLEX RECEPTACLE, ONE LOW VOLTAGE COMPARTMENT WITH 3/4" CONDUIT BACK TO LOW VOLTAGE CLOSET

(2) SEE 1,3/ES3.2 FOR LOCATION OF FLOOR JUNCTION BOX PRIOR TO ROUGH IN

(3) FOR CEILING MONITOR, COORDINATE LOCATION WITH DIV.28 PRIOR TO ROUGH IN

(4) COORDINATE LOCATION OF RECEPTACLES FOR FUTURE REFRIGERATOR AND MICROWAVE WITH OWNER PRIOR TO ROUGH IN



NORTH

1 UPPER LEVEL HOUSING
E2.2 SCALE: 1/8"=1'-0"

STUDIO8 design
architecture
2722 North Oak Street
Valdosta, Georgia 31602
P.(229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

Phillips Gradick Engineering, P.C.
8215 Roswell Road, Suite 925
Atlanta, GA 30350
Telephone: 720.650.9061 Fax: 720.642.2410
PGE Project No. 224015

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A HOUSING FACILITY FOR
NEWBERRY COUNTY DETENTION CENTER
NEWBERRY, SOUTH CAROLINA

SOUTH CAROLINA PROFESSIONAL ENGINEER — PHILLIPS GRADICK ENGINEERING, PC. — No. 4128 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER — No. 28812 — CHAD EDWARD PHILLIPS

07/12/2024

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HOUSING UPPER PLAN - POWER

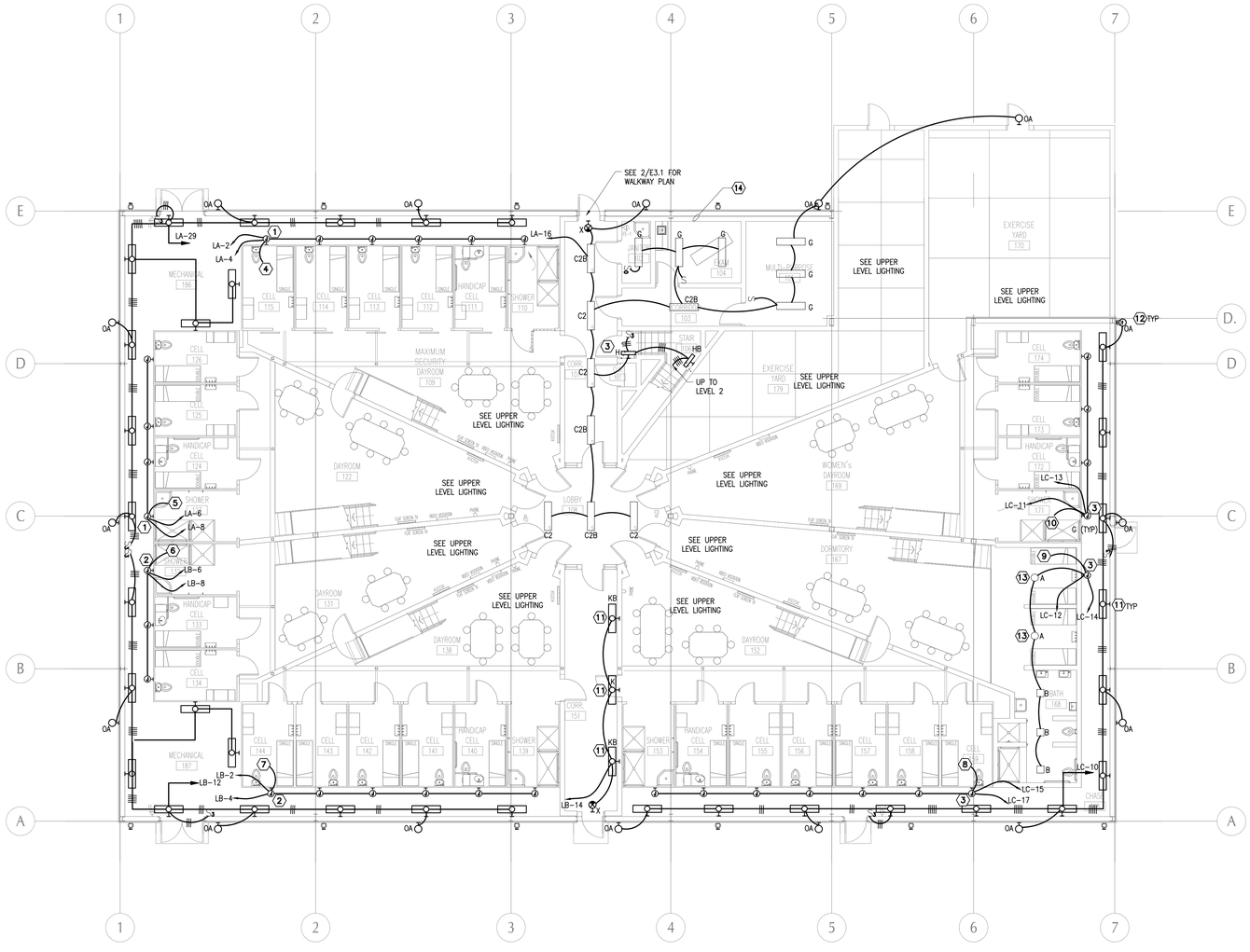
E2.2

GENERAL NOTES

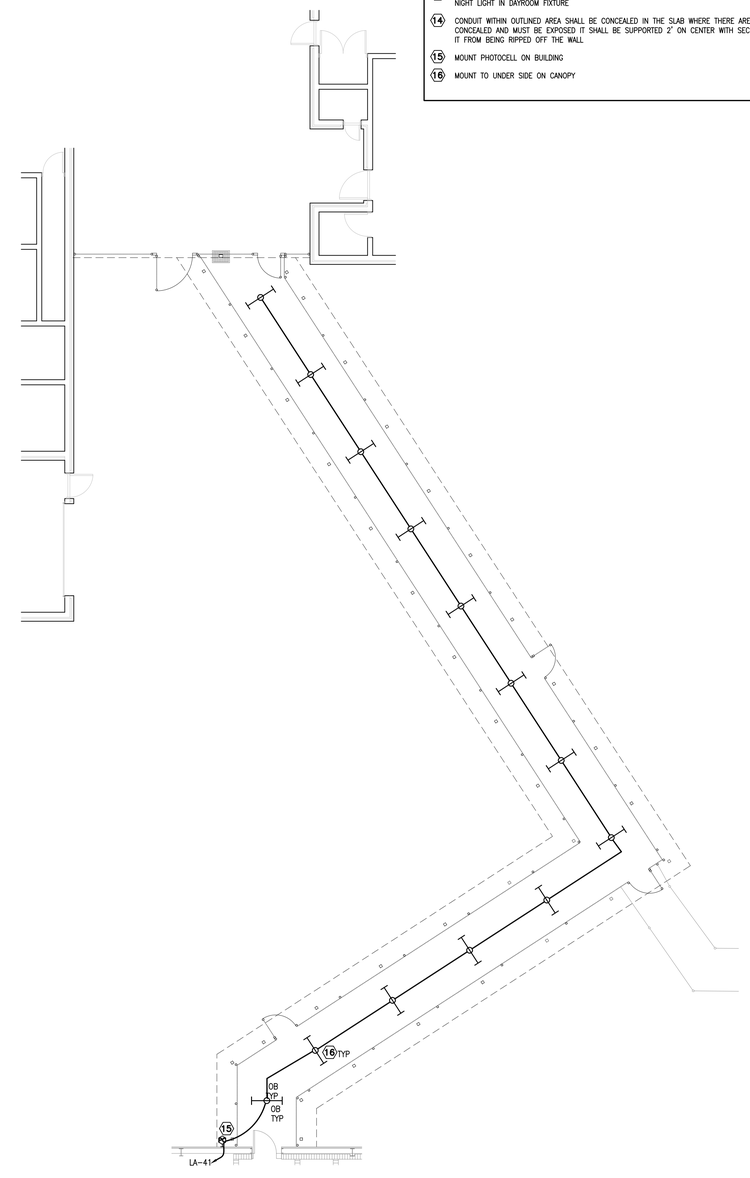
1. REFER TO ARCHITECTURAL REFLECTIVE CEILING PLAN FOR LOCATION OF LIGHT FIXTURES AND CEILING TYPES PRIOR TO ORDERING LIGHT FIXTURES
2. BRANCH CIRCUIT MAY BE COMBINED WITH NO MORE THAT THREE HOT CONDUCTORS PER HOME RUN, EACH HOT CONDUCTOR SHALL HAVE A DEDICATED NEUTRAL
3. PROVIDE EQUIPMENT GROUND CONDUCTOR IN EACH RACEWAY

KEY NOTES

1. MAKE FINAL CONNECTION TO JUNCTION BOX WITH TWO SWITCH LEGS. EACH SWITCH LEG SHALL BE CONNECTED TO A DEDICATED RELAY IN RELAY PANEL RPA, 2#12,#12G 1/2"C PER SWITCH LEG. JUNCTION BOX, WIRING AND CELL LIGHT FIXTURE IS PROVIDED BY THE PRE MANUFACTURED CELL CONTRACTOR. ONE SWITCH LEG SHALL CONTROL MAIN CELL LIGHT AND MAIN DAYROOM LIGHT, ONE SWITCH LEG SHALL CONTROL CELL NIGHT LIGHT AND DAYROOM NIGHT LIGHT
2. MAKE FINAL CONNECTION TO JUNCTION BOX WITH TWO SWITCH LEGS. EACH SWITCH LEG SHALL BE CONNECTED TO A DEDICATED RELAY IN RELAY PANEL RPB, 2#12,#12G 1/2"C PER SWITCH LEG. JUNCTION BOX, WIRING AND CELL LIGHT FIXTURE IS PROVIDED BY THE PRE MANUFACTURED CELL CONTRACTOR. ONE SWITCH LEG SHALL CONTROL MAIN CELL LIGHT AND MAIN DAYROOM LIGHT, ONE SWITCH LEG SHALL CONTROL CELL NIGHT LIGHT AND DAYROOM NIGHT LIGHT
3. MAKE FINAL CONNECTION TO JUNCTION BOX WITH TWO SWITCH LEGS. EACH SWITCH LEG SHALL BE CONNECTED TO A DEDICATED RELAY IN RELAY PANEL RPC, 2#12,#12G 1/2"C PER SWITCH LEG. JUNCTION BOX, WIRING AND CELL LIGHT FIXTURE IS PROVIDED BY THE PRE MANUFACTURED CELL CONTRACTOR. ONE SWITCH LEG SHALL CONTROL MAIN CELL LIGHT AND MAIN DAYROOM LIGHT, ONE SWITCH LEG SHALL CONTROL CELL NIGHT LIGHT AND DAYROOM NIGHT LIGHT
4. CONNECT TO JUNCTION BOX A ON LEVEL 2
5. CONNECT TO JUNCTION BOX B ON LEVEL 2
6. CONNECT TO JUNCTION BOX C ON LEVEL 2
7. CONNECT TO JUNCTION BOX D ON LEVEL 2
8. CONNECT TO JUNCTION BOX E ON LEVEL 2
9. CONNECT TO JUNCTION BOX F ON LEVEL 2
10. CONNECT TO JUNCTION BOX G ON LEVEL 2
11. MOUNT 9'6" AFF
12. MOUNT 12' ABOVE FINISHED GRADE
13. CONNECT SWITCH LEG FROM MAIN LIGHT IN THIS FIXTURE TO MAIN LIGHT IN DAYROOM, CONNECT NIGHT LIGHT IN THIS FIXTURE TO NIGHT LIGHT IN DAYROOM FIXTURE
14. CONDUIT WITHIN OUTLINED AREA SHALL BE CONCEALED IN THE SLAB WHERE THERE ARE EXPOSED CEILINGS, IF CONDUIT CANNOT BE CONCEALED AND MUST BE EXPOSED IT SHALL BE SUPPORTED 2' ON CENTER WITH SECURITY/VANDAL RESISTANT SCREWS TO PREVENT IT FROM BEING RIPPED OFF THE WALL
15. MOUNT PHOTOCELL ON BUILDING
16. MOUNT TO UNDER SIDE ON CANOPY



1 E3.1 LOWER LEVEL HOUSING
SCALE: 1/8"=1'-0"



2 E3.1 COVERED WALKWAY FLOOR PLAN
SCALE: 1/8"=1'-0"

UPDATED BACKGROUNDS BY ARCHITECT

STUDIO8 design
architecture
2722 North Oak Street
Valdosta, Georgia 31602
P.(229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

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Atlanta, GA 30350
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A HOUSING FACILITY FOR
NEWBERRY COUNTY DETENTION CENTER
NEWBERRY, SOUTH CAROLINA

SOUTH CAROLINA PHILLIPS GRADICK ENGINEERING, INC. No. 4128 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER CHAD GOOCH

06/04/2025

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HOUSING LOWER PLAN - LIGHTING

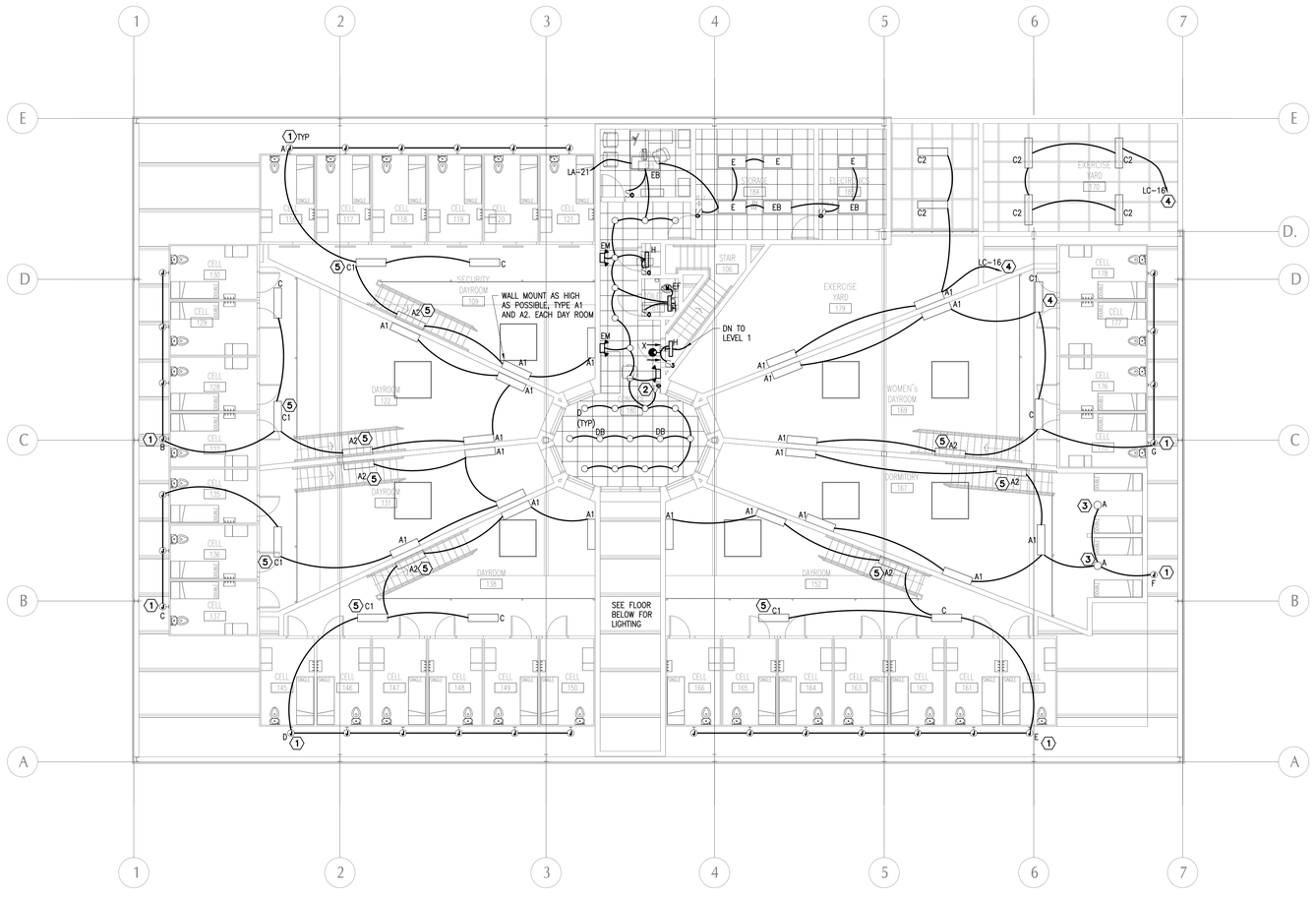
E3.1

GENERAL NOTES

1. REFER TO ARCHITECTURAL REFLECTIVE CEILING PLAN FOR LOCATION OF LIGHT FIXTURES AND CEILING TYPES PRIOR TO ORDERING LIGHT FIXTURES
2. BRANCH CIRCUIT MAY BE COMBINED WITH NO MORE THAT THREE HOT CONDUCTORS PER HOME RUN, EACH HOT CONDUCTOR SHALL HAVE A DEDICATED NEUTRAL
3. PROVIDE EQUIPMENT GROUND CONDUCTOR IN EACH RACEWAY

KEY NOTES

1. CONNECT TO JUNCTION BOX ON LEVEL 1 WITH TWO SWITCH LEGS. 2#12,#12G 1/2"C. PER SWITCH LEG. JUNCTION BOX, WIRING AND CELL LIGHT FIXTURE IS PROVIDED BY THE PRE MANUFACTURED CELL CONTRACTOR. ONE SWITCH LEG SHALL CONTROL MAIN CELL LIGHT AND MAIN DAYROOM LIGHT, ONE SWITCH LEG SHALL CONTROL CELL NIGHT LIGHT AND DAYROOM NIGHT LIGHT
2. PROVIDE OCCUPANCY SENSOR/DIMMER
3. CONNECT SWITCH LEG FROM MAIN LIGHT IN THIS FIXTURE TO MAIN LIGHT IN DAYROOM, CONNECT NIGHT LIGHT IN THIS FIXTURE TO NIGHT LIGHT IN DAYROOM FIXTURE
4. ROUTE CIRCUIT TO INDIVIDUAL RELAY IN RELAY PANEL RPC, 2#12, #12G 1/2"C.
5. CONNECT SWITCH LEG FROM CELL NIGHT LIGHT IN THIS POD TO NIGHT LIGHT CIRCUIT IN THIS FIXTURE



1 UPPER LEVEL HOUSING
E3.2 SCALE: 1/8"=1'-0"

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architecture
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A HOUSING FACILITY FOR
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NEWBERRY, SOUTH CAROLINA

SOUTH CAROLINA PROFESSIONAL ENGINEER — CHAD GRADICK — No. 28812

SOUTH CAROLINA — PHILLIPS GRADICK ENGINEERING, PC. — No. 4128 — CERTIFICATE OF AUTHORIZATION

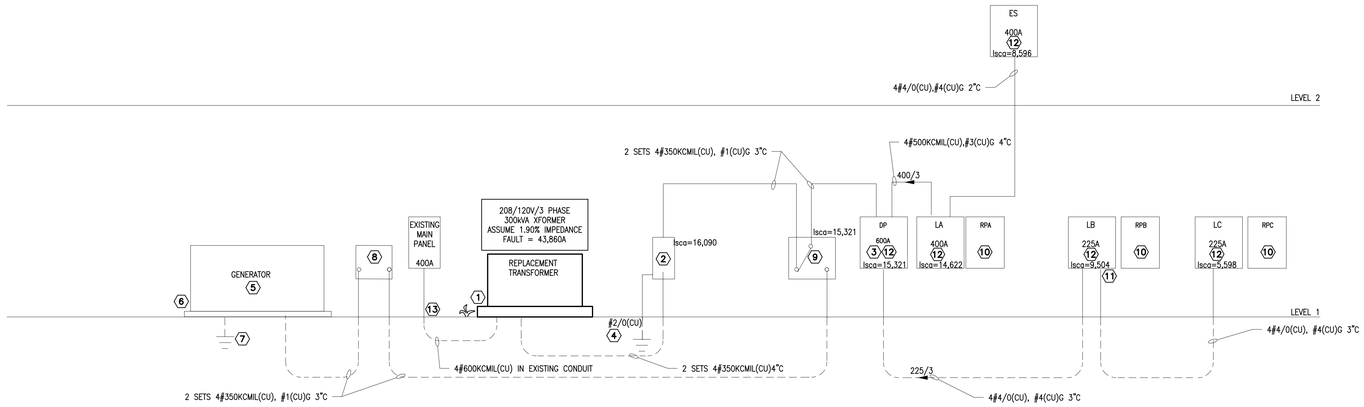
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REV.		REV.	
REV.		REV.	
REV.		REV.	

HOUSING UPPER PLAN - LIGHTING

E3.2



2 E5.1 HOUSING RISER DIAGRAM

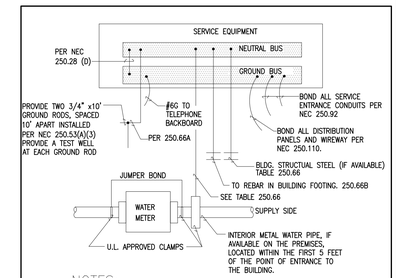
SCALE: NONE

GENERAL NOTES

1. ELECTRICAL ROOM LAYOUT IS BASED ON SIEMENS EQUIPMENT. IF EQUIPMENT OTHER THAN SIEMENS IS UTILIZED, CONTRACTOR SHALL BE RESPONSIBLE TO MAKE EQUIPMENT FIT IN ROOM AND MAINTAIN WORKING CLEARANCES
2. BOND ALL SERVICE GROUNDS TOGETHER.
3. PROVIDE FAULT CURRENT SIGN ON ALL GEAR PER NEC 110.24
4. PROVIDE GRAPHIC PLAQUE INDICATING OTHER SERVICE LOCATIONS. MOUNT IN EACH ELECTRICAL ROOM
5. MARK ALL PANELS AND LOAD CENTERS TO INDICATE WHERE THE POWER SUPPLY ORIGINATES PER NEC 408.4(B)
6. CIRCUIT BREAKERS 1200 AMP OR LARGER SHALL COMPLY WITH NEC 240.87
7. CONTRACTOR TO COORDINATE WITH POWER COMPANY, PRIOR TO ANY WORK, AND OBTAIN REQUIREMENTS FOR ELECTRICAL SERVICE. CONTRACTOR TO PROVIDE POWER COMPANY LOAD FORMS, INCLUDING ALL ASSOCIATED DOCUMENTS REQUIRED BY THE POWER COMPANY, TO THE APPROPRIATE POWER COMPANY REPRESENTATIVE PRIOR TO ANY WORK

KEY NOTES

1. REMOVE AND REPLACE TRANSFORMER, PROVIDE NEW PAD. COORDINATE REQUIREMENTS WITH TIM BAKER, WITH THE CITY OF NEWBERRY UTILITY DEPARTMENT 803.321.1018 EXT 3876 PRIOR TO BID. COORDINATE SHUT DOWN TIME WITH OWNER, THE EXISTING TRANSFORMER BEING REPLACED SERVES A JAIL FACILITY
2. PROVIDE 600/3/NEMA 3R/SER CIRCUIT BREAKER. PROVIDE PHENOLIC PLASTIC NAMEPLATE WITH BLACK BACKGROUND 1/2"HIGH WHITE LETTER "MAIN NORMAL POWER DISCONNECT"
3. MAIN PANEL BOARD. PROVIDE LUGS TO MATCH SIZE AND QUANTITY OF CONDUCTORS. REFER TO MAIN PANEL BOARD SCHEDULE FOR BRANCH BREAKER SIZES AND QUANTITY.
4. PROVIDE GROUND WIRE AS INDICATED AT BUILDING SERVICE. SEE 2/E5.1 FOR DETAIL.
5. PROVIDE DIESEL GENERATOR, CAT C7.1(125KW/156KVA), LC3134J ALTERNATOR, 208/120V 3 PHASE 4 WIRE GENERATOR WITH 450/3 CIRCUIT BREAKER. PROVIDE LEVEL 1 SOUND ENCLOSURE, INSULATED MUFFLER AND TAIL PIPE. PROVIDE 96 HOURS MIN RUN TIME SKID MOUNTED STATE FUEL TANK. PROVIDE BATTERY CHARGER, BLOCK HEATER AND SIGNAL WIRING BETWEEN GENERATOR AND EACH TRANSFER SWITCH. ANNUNCIATOR PANEL SHALL MEET NFPA 110. PROVIDE EPO BUTTON, MOUNTED ON GENERATOR HOUSING. PROVIDE 4' WIDE U SHAPED PLATFORM WITH 3 STEPS AND LANDING
6. PROVIDE GENERATOR HOUSING KEEPING PAD, PAD SHALL EXTEND 6" OUTSIDE FOOT PRINT OF ENCLOSURER, SEE DETAIL THIS DRAWING
7. PROVIDE GROUND ROD WITH #2/0(CU)GND, CONNECT TO GROUND BAR. BOND NEUTRAL AND GROUND TOGETHER
8. 600 AMP 120/208V 3 PHASE 3 POLE DOUBLE THROW SWITCH, NEMA 3R FOR GENERATOR MAINTENANCE BY PASS
9. PROVIDE 3 POLE 600AMP AUTOMATIC TRANSFER SWITCH NEMA 1, ASCO SERIES 300, J03ATSA20600CGXC WITH OPTIONS 11BE AND 18RX
10. (24)20/1 RELAY PANEL, SURFACE MOUNTED WITH COVER, NX CONTROLS OR APPROVED EQUAL
11. CONECT TO FEED THRU LUGS
12. PROVIDE LEVEL 2 UL 1449 SURGE PROTECTOR WITH OVER CURRENT PROTECTION
13. REMOVE CONDUCTORS FROM TRANSFORMER TO MAIN PANEL, CONDUIT SHALL REMAIN FOR NEW CONDUCTORS

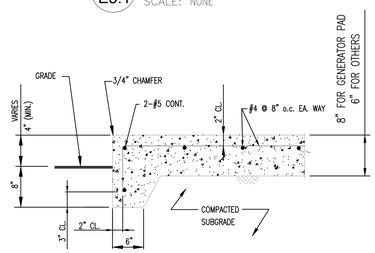


NOTES:

1. THE GROUNDING CONDUCTOR BROUGHT TO SERVICE EQUIPMENT MUST BE FULLY RATED PER NEC 250.66
2. THE GROUNDING ELECTRODE CONDUCTOR SHALL BE CONNECTED TO THE GROUNDED SERVICE CONDUCTOR, AT EACH SERVICE IN ACCORDANCE WITH NEC 250.24
3. TOP OF GROUND RODS SHALL BE 2" BELOW FINISHED GRADE.

3 E5.1 GROUNDING DETAIL

SCALE: NONE



4 E5.1 GENERATOR PAD DETAIL

SCALE: NONE

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architecture
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SOUTH CAROLINA PROFESSIONAL ENGINEER CHAD GRADICK 07/12/2024

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REV.		REV.	

RISER DIAGRAM

E5.1

MAIN PANEL BOARD "DP" CALCULATIONS

MAIN:	600A MLO	VOLTAGE:	208/120	3 Phase	4 Wire		FAULT DUTY:	SEE RISER						
Seq	DESCRIPTION	FRAME	TRIP	POLE	DWELL UNIT	GUEST ROOM	CONT	REC	MTR	A/C	HTG	MISC	KIT	Load Totals (Kva)
3	PANELBOARD "LA"		400	3			5.2	10.8	14.2	26.6		3.6		60.5
4	PANELBOARD "LB"		225	3			6.9	5.4	18.5	28.5		3.4		62.8
5	Space	225		3										0.0
														Total Kva

Phillips Gradick Engineering	Category Total	0.0	0.0	12.2	16.3	32.7	55.2	0.0	7.0	0.0	**123.3**
	Code Demand	Note 4	Note 8	125%	Note 6	Note 9	100%	100%	100%	Note 7	Demand Kva
	Subtotals	0.0	0.0	15.2	13.1	34.2	55.2	0.0	7.0	0.0	**124.7**
											Min Amps
											346.2

(1) Provide Ground Fault Protection.
(2) Circuit breaker to have Shunt Trip
(3) Provide "TVSS" protection.
(4) Diversity in accordance with NEC Table 220.84. 0 Units @ 100% .
(5) Coordinate elevator circuit breaker with manufactures recommendation.
(6) Diversity in accordance with 2023 NEC Table 220.44.
(7) Diversity in accordance with 2023 NEC Table 220.56.
(8) Diversity in accordance with 2023 NEC Table 220.42.
(9) Per 2023 NEC 430.24.
(10) Not used.

PANELBOARD "LA" SCHEDULE

VOLTAGE: 208/120 3 Ph 4 Wire | MAIN --- | MLO | MOUNTING FLUSH | REMARKS:
BUS SIZE: 400A | TOTAL LOAD: 60.5 | KVA | FAULT DUTY SEE RISER | Provide copper ground bus

CKT NO	DESCRIPTION	LOAD (kVA) CONT	REC	MTR	A/C	HTG	MISC	KIT	BKR	PHASE A	B	C	BKR	KIT	MISC	HTG	A/C	MTR	REC	CONT	DESCRIPTION	CKT NO
1				4.0	7.9					12.8			20/1							0.9	Day room 109 Main Lights	2
3	RTU-W			4.0	7.9				150/3		12.0		20/1							0.1	Day room 109 Night Lights	4
5				4.0	7.9							12.7	20/1							0.8	Day room 122 Main Lights	6
7	WH1					1.1			15/1	1.2			20/1							0.1	Day room 122 Night Lights	8
9	WH2					1.1			15/1		1.3		20/1							0.2	Level 2 Control Area	10
11	WH3					1.1			15/1			1.3	20/1							0.2	Level 2 Control Area	12
13	HWCP1			0.5					20/1	0.7			20/1							0.2	Level 2 Control Area	14
15	HWCP2			0.5					20/1		1.4		20/1							0.9	Level 2 Office	16
17	HWCP3			0.5					20/1			1.4	20/1							0.9	Level 2 Office	18
19	HWCP4			0.5					20/1	1.2			20/1							0.7	Level 2 Electronics Room	20
21	Level 2	0.8							20/1		1.2		20/1							0.4	Level 2 Electronics Room	22
23	Generator Block Heater	1.0							20/2			2.2	20/1							1.2	Storage	24
25		1.0								2.2			20/1							1.2	Storage	26
27	Generator Battery Charger						0.1		20/1		0.9		25/2				0.8				DFC/DCU 201	28
29	Chase and Wall Lights	0.6							20/1			1.4					0.8					30
31	Chase Receptacles		0.7						20/1	1.5			25/2				0.8				DFC/DCU 202	32
33	EFJ		0.5						20/1		1.3						0.8					34
35	Exam Receptacles		0.9						20/1			1.0	20/1		0.1						FACP	36
37	Program Receptacles		0.7						20/1	1.1			20/1							0.4	Corridor Receptacles	38
39	Program Receptacles		0.7						20/1		0.9		20/1							0.2	Corridor Receptacles	40
41	Canopy Lights	.539.5							20/1			0.4	20/1							0.4	Day room 109 Charger Pads	42
43									20/1	0.4			20/1							0.4	Day room 122 Charger Pads	44
45									20/1		0.2		20/1							0.2	Day room 109,122 TV	46
47									20/1			0.0	20/1									48
49									20/1	0.0			20/1									50
51									20/1		0.0		20/1									52
53									20/1			0.0	20/1									54
55									20/1	0.0			20/1									56
57									20/1		0.0		20/1									58
59									20/1			0.0	20/1									60
61									20/1	0.0			20/1									62
63									20/1		0.0		20/1									64
65									20/1			0.0	20/1									66
67									20/1	0.0			20/1									68
69									20/1		0.0		20/1									70
71									20/1			0.0	20/1									72
73									20/1	0.0			20/1									74
75									20/1		0.0		20/1									76
77									20/1			0.0	20/1									78
79									20/1	0.0			20/1									80
81									20/1		0.0		225/3								PANELBOARD "ES"	82
83									20/1			0.0										84
	TOTAL KVA	3.4	3.6	14.2	23.6	0.0	3.5	0.0		21.1	19.1	20.3		0.0	0.1	0.0	3.0	0.0	7.3	1.8	TOTAL KVA	
	AMPERES/PHASE									175.5	158.9	169.4									AMPERES/PHASE	

T	Continuous:	5.2	X 125% =	6.6
O	Receptacles:	10.8	NEC 220.44	10.4
T	Motors:	14.2	NEC 220.18(A)	14.2
A	Largest Motor:	1.0	NEC 430.24	0.3
L	A/C:	26.6	X 100% =	26.6
S	Heating:	0.0	X 100% =	0.0
	Miscellaneous:	3.6	X 100% =	3.6
	Kitchen:	0.0	NEC 220.56	0.0
	Not Used.	--	Not Used.	--
	Not Used.	--	Not Used.	--
	TOTAL KVA	60.5		61.7
	TOTAL AMPS	168.1		171.3

Phillips Gradick Engineering

CODE KVA
CODE AMPS

NOTES:
1) This circuit breaker to have pad lockable device.
2) This shall be a GFI type circuit breaker.
3) Provide shunt trip type circuit breaker.
4) Per NEC 2023, 210.4 Each multi-wire branch circuit shall be provided with a means that will simultaneously disconnect all ungrounded conductors at the point where the branch circuit originates. This means that any circuit that shares a neutal shall be disconnected by a common means. Utilize 2-pole, 3-pole, or wire-tied circuit breakers where necessary.
5) Demand load for guest room ltg&receptacles calculated by area per 2023 NEC Table 220.12, 220.14(J), & Table 220.42.
6) Diversity in accordance with 2023 NEC Table 220.84. 0 Units @ 100%.
7)
8) Not used.
9) Not used.

PANELBOARD "LB" SCHEDULE

VOLTAGE: 208/120 3 Ph 4 Wire | MAIN --- | MLO | MOUNTING FLUSH | REMARKS:Feed Thru Lugs
BUS SIZE: 225A | TOTAL LOAD: 62.8 | KVA | FAULT DUTY SEE RISER | Provide copper ground bus

CKT NO	DESCRIPTION	LOAD (kVA) CONT	REC	MTR	A/C	HTG	MISC	KIT	BKR	PHASE A	B	C	BKR	KIT	MISC	HTG	A/C	MTR	REC	CONT	DESCRIPTION	CKT NO
1				4.9	9.5					15.3			20/1							0.9	Day room 138 Main Lights	2
3	RTU-E			4.9	9.5				150/3		14.5		20/1							0.1	Day room 138 Night Lights	4
5				4.9	9.5							15.0	20/1							0.6	Day room 131 Main Lights	6
7	WH4						1.1		15/1	1.2			20/1							0.1	Day room 131 Night Lights	8
9	WH5						1.1		15/1		2.0		20/1							0.9	Chase Receptacles	10
11	WH6						1.1		15/1			1.6	20/1							0.5	Chase and Wall Lights	12
13	HWCP5			0.5					20/1	0.7			20/1							0.2	Corridor Lights	14
15	HWCP6			0.5					20/1		1.4		20/1							0.8	Lobby Corridor Lights	16
17	HWCP7			0.5					20/1			0.7	20/1						0.2		Corridor Receptacles	18
19	HWCP8			0.5					20/1	0.7			20/1						0.2		Corridor Receptacles	20
21									20/1		0.4		20/1						0.4		Day room 131 Charger Pads	22
23									20/1			0.4	20/1						0.4		Day room 138 Charger Pads	24
25									20/1	0.2			20/1						0.2		Day room 131,138 TV	26
27									20/1		0.0		20/1									28
29									20/1			0.0	20/1									30
31									20/1	0.0			20/1									32
33									20/1		0.0		20/1									34
35									20/1			0.0	20/1									36
37									20/1	0.0			20/1									38
39									20/1		0.0		20/1									40
41									20/1			0.0	20/1									42
LUG	PANELBOARD "LC"	0.2	1.5	0.5						2.2												
		2.1	1.4	0.5							4.0											
		1.5	0.4	0.5								2.4										
	TOTAL KVA	3.8	3.3	18.5	28.5	0.0	3.4	0.0		20.3	22.3	20.1		0.0	0.0	0.0	0.0	0.0	2.1	3.2	TOTAL KVA	
	AMPERES/PHASE									169.2	186.0	167.8									AMPERES/PHASE	

T	Continuous:	6.9	X 125% =	8.7
O	Receptacles:	5.4	NEC 220.44	5.4
T	Motors:	18.5	NEC 220.18(A)	18.5
A	Largest Motor:	1.0	NEC 430.24	0.3
L	A/C:	28.5	X 100% =	28.5
S	Heating:	0.0	X 100% =	0.0
	Miscellaneous:	3.4	X 100% =	3.4
	Kitchen:	0.0	NEC 220.56	0.0
	Not Used.	--	Not Used.	--
	Not Used.	--	Not Used.	--
	TOTAL KVA	62.8		64.8
	TOTAL AMPS	174.5		180.0

Phillips Gradick Engineering

CODE KVA
CODE AMPS

NOTES:
1) This circuit breaker to have pad lockable device.
2) This shall be a GFI type circuit breaker.
3) Provide shunt trip type circuit breaker.
4) Per NEC 2023, 210.4 Each multi-wire branch circuit shall be provided with a means that will simultaneously disconnect all ungrounded conductors at the point where the branch circuit originates. This means that any circuit that shares a neutal shall be disconnected by a common means. Utilize 2-pole, 3-pole, or wire-tied circuit breakers where necessary.
5) Demand load for guest room ltg&receptacles calculated by area per 2023 NEC Table 220.12, 220.14(J), & Table 220.42.
6) Diversity in accordance with 2023 NEC Table 220.84. 0 Units @ 100%.
7)
8) Not used.
9) Not used.

PANELBOARD "LC" SCHEDULE

VOLTAGE: 208/120 3 Ph 4 Wire | MAIN --- | MLO | MOUNTING FLUSH | REMARKS:
BUS SIZE: 225A | TOTAL LOAD: 8.7 | KVA | FAULT DUTY SEE RISER | Provide copper ground bus

CKT NO	DESCRIPTION	LOAD (kVA) CONT	REC	MTR	A/C	HTG	MISC	KIT	BKR	PHASE A	B	C	BKR	KIT	MISC	HTG	A/C	MTR	REC	CONT	DESCRIPTION	CKT NO
1	HWCP9			0.5					20/1	0.9			20/1						0.4		Day room 169 Charger Pads	2
3	HWCP10			0.5					20/1		0.9		20/1						0.4		Day room 167 Charger Pads	4
5	HWCP11			0.5					20/1			0.9	20/1						0.4		Day room 152 Charger Pads	6
7	Medical Machine		1.0						20/1	1.2			20/1						0.2		Day room 152,167,169 TV	8
9	Chase Receptacles		1.1						20/1		1.8		20/1							0.7	Chase and Wall Lights	10
11	Day room 169 Main Lights	0.8							20/1			1.4	20/1							0.6	Day room 167 Main Lights	12
13	Day room 169 Night Lights	0.1							20/1	0.2			20/1							0.1	Day room 167 Night Lights	14
15	Day room 152 Main Lights	1.0							20/1		1.3		20/1							0.4	Exercise Yard	16
17	Day room 152 Night Lights	0.1							20/1			0.1	20/1									18
19									20/1	0.0			20/1									20
21									20/1		0.0		20/1									22
23									20/1			0.0	20/1									24
25									20/1	0.0			20/1									26
27									20/1		0.0		20/1									28
29									20/1			0.0	20/1									30
31									20/1	0.0			20/1									32
33									20/1		0.0		20/1									34
35									20/1			0.0	20/1									36
37									20/1	0.0			20/1									38
39									20/1		0.0		20/1									40
41									20/1			0.0	20/1									42
	TOTAL KVA	2.0	2.1	1.6	0.0	0.0	0.0	0.0		2.2	4.0	2.4		0.0	0.0	0.0	0.0	0.0	1.2	1.8	TOTAL KVA	
	AMPERES/PHASE									18.6	33.6	20.1									AMPERES/PHASE	

T	Continuous:	3.8	X 125% =	4.7
O	Receptacles:	3.3	NEC 220.44	3.3
T	Motors:	1.6	NEC 220.18(A)	1.6
A	Largest Motor:	1.0	NEC 430.24	0.3
L	A/C:	0.0	X 100% =	0.0
S	Heating:	0.0	X 100% =	0.0
	Miscellaneous:	0.0	X 100% =	0.0
	Kitchen:	0.0	NEC 220.56	0.0
	Not Used.	--	Not Used.	--
	Not Used.	--	Not Used.	--
	TOTAL KVA	8.7		9.9
	TOTAL AMPS	24.1		27.4

Phillips Gradick Engineering

CODE KVA
CODE AMPS

NOTES:
1) This circuit breaker to have pad lockable device.
2) This shall be a GFI type circuit breaker.
3) Provide shunt trip type circuit breaker.
4) Per NEC 2023, 210.4 Each multi-wire branch circuit shall be provided with a means that will simultaneously disconnect all ungrounded conductors at the point where the branch circuit originates. This means that any circuit that shares a neutal shall be disconnected by a common means. Utilize 2-pole, 3-pole, or wire-tied circuit breakers where necessary.
5) Demand load for guest room ltg&receptacles calculated by area per 2023 NEC Table 220.12, 220.14(J), & Table 220.42.
6) Diversity in accordance with 2023 NEC Table 220.84. 0 Units @ 100%.
7)
8) Not used.
9) Not used.

PANELBOARD "ES" SCHEDULE

VOLTAGE: 208/120 3 Ph 4 Wire | MAIN --- | MLO | MOUNTING SURFACE | REMARKS:
BUS SIZE: 225A | TOTAL LOAD: 0.0 | KVA | FAULT DUTY SEE RISER | Provide copper ground bus

CKT NO	DESCRIPTION	LOAD (kVA) CONT	REC	MTR	A/C	HTG	MISC	KIT	BKR	PHASE A	B	C	BKR	KIT	MISC	HTG	A/C	MTR	REC	CONT	DESCRIPTION	CKT NO
1	SPARE								20/1	0.0			20/1								SPARE	2
3	SPARE								20/1		0.0		20/1								SPARE	4
5	SPARE								20/1			0.0	20/1								SPARE	6
7	SPARE								20/1	0.0			20/1								SPARE	8
9	SPARE								20/1		0.0		20/1								SPARE	10
11	SPARE								20/1			0.0	20/1								SPARE	12
13	SPARE								20/1	0.0			20/1								SPARE	14
15	SPARE								20/1		0.0		20/1								SPARE	16
17	SPARE								20/1			0.0	20/1								SPARE	18
19	SPARE								20/1	0.0			20/1								SPARE	20
21	SPARE								20/1		0.0		20/1								SPARE	22
23	SPARE								20/1			0.0	20/1								SPARE	24
25	SPARE								20/1	0.0			20/1								SPARE	26
27	SPARE								20/1		0.0		20/1								SPARE	28
29	SPARE								20/1			0.0	20/1								SPARE	30
31	SPARE								20/1	0.0			20/1								SPARE	32
33	SPARE								20/1		0.0		20/1								SPARE	34
35	SPARE								20/1			0.0	20/1								SPARE	36
37	SPARE								20/1	0.0			20/1								SPARE	38
39	SPARE								20/1		0.0		20/1								SPARE	40
41	SPARE								20/1			0.0	20/1								SPARE	42
	TOTAL KVA	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	TOTAL KVA	
	AMPERES/PHASE									0.0	0.0	0.0									AMPERES/PHASE	

T	Continuous:	0.0	X 125% =	0.0
O	Receptacles:	0.0	NEC 220.44	0.0
T	Motors:	0.0	NEC 220.18(A)	0.0
A	Largest Motor:	0.0	NEC 430.24	0.0
L	A/C:	0.0	X 100% =	0.0
S	Heating:	0.0	X 100% =	0.0
	Miscellaneous:	0.0	X 100% =	0.0
	Kitchen:	0.0	NEC 220.56	0.0
	Not Used.	--	Not Used.	--
	Not Used.	--	Not Used.	--
	TOTAL KVA	0.0		0.0
	TOTAL AMPS	0.0		0.0

Phillips Gradick Engineering

CODE KVA
CODE AMPS

NOTES:
1) This circuit breaker to have pad lockable device.
2) This shall be a GFI type circuit breaker.
3) Provide shunt trip type circuit breaker.
4) Per NEC 2023, 210.4 Each multi-wire branch circuit shall be provided with a means that will simultaneously disconnect all ungrounded conductors at the point where the branch circuit originates. This means that any circuit that shares a neutal shall be disconnected by a common means. Utilize 2-pole, 3-pole, or wire-tied circuit breakers where necessary.
5) Demand load for guest room ltg&receptacles calculated by area per 2023 NEC Table 220.12, 220.14(J), & Table 220.42.
6) Diversity in accordance with 2023 NEC Table 220.84. 0 Units @ 100%.
7) Not used.
8) Not used.
9) Not used.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE (1)

ITEM NO.	EQUIPMENT	EQUIPMENT CHARACTERISTICS VOLTAGE	PHASE	HP	KW	FLA	MCA	CIRCUIT	FEEDER	BREAKER (TRIP/POLE)	DISCONNECT SWITCH SIZE	POLE	FUSE	FEATURES	REMARKS
1	RTU-W	208	3	0	0.0	98.1	112.0	See Floor Plans	3#1/0(CU),1#6(CU)G-1 1/4"C(EMT)	150/3					Note 2
2	RTU-E	208	3	0	0.0	120.3	129.9	See Floor Plans	3#1/0(CU),1#6(CU)G-1 1/4"C(EMT)	150/3					Note 2
3	DFC/DCU	208	1	0	0.0	7.4	19.0	See Floor Plans	2#10(CU),1#10(CU)G-1/2"C(EMT)	25/2	30	2		NEMA 3R	Note 4 & 5
4	EFJ	120	1	0	0.0	0.5	0.6	See Floor Plans	2#12(CU),1#12(CU)G-1/2"C(EMT)	20/1					
5	WH1-6	120	1	0	0.0	9.5	11.9	See Floor Plans	2#12(CU),1#12(CU)G-1/2"C(EMT)	15/1					
6	HWCP1-11	120	1	1/6	0.0	4.4	0.3	See Floor Plans	2#12(CU),1#12(CU)G-1/2"C(EMT)	20/1					

(1) IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE ELECTRICAL WITH MECHANICAL EQUIPMENT REGARDING VOLTAGE, PHASE, WIRE SIZE AND MOCP.
(2) DISCONNECT PROVIDED INTEGRAL TO UNIT BY DIVISION 15
(3) LOCK OFF BREAKER USED DISCONNECT. LOCK MUST BE PAD LOCKABLE. NEC 422.31(B).
(4) DSFC SHALL BE CONNECTED TO CORRESPONDING DSCU. COORDINATE EXACT REQ. WITH EQUIP. SUPPLIER PRIOR TO ROUGH-IN.
(5) DSCU LOAD INFORMATION INCLUDES DSFC.

STUDIO8 design
architecture
2722 North Oak Street
Valdosta, Georgia 31602
P.(229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

Phillips Gradick Engineering, P.C.
8215 Roswell Road, Suite 925
Atlanta, GA 30350
Telephone: 770.650.9061 Fax: 770.642.2410
PGE Project No. 224015

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A HOUSING FACILITY FOR
NEWBERRY COUNTY DETENTION CENTER
NEWBERRY, SOUTH CAROLINA

SOUTH CAROLINA
PHILLIPS GRADICK ENGINEERING, PC.
No. 4128
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
REGISTERED
PROFESSIONAL ENGINEER
CHAD COSTELLO

07/12/2024

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REV.	BID SET 25 JUNE, 2025	REV.	
REV.		REV.	
REV.		REV.	
REV.		REV.	

SCHEDULES

E6.1

SECURITY LEGEND NOTES:

S-1 EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSTALLED IN ALL RACEWAYS.

S-2 UNLESS NOTED, MOUNTING HEIGHT DIMENSIONS ARE TO THE BOTTOM OF THE DEVICE OR OUTLET ABOVE GRADE OR FINISHED FLOOR.

S-3 GENERAL – ALL SYMBOLS INDICATED IN THE LEGEND MAY NOT NECESSARILY BE USED ON THE PLANS.

S-4 FURNISH AND INSTALL (1)–1" CONDUIT PER OUTLET TO THE MDF/IDF/ELECTRONICS EQ. ROOMS. ONE OUTLETS PER HOMERUN. EACH OUTLET WILL HAVE AT LEAST FOUR CAT6 CABLES INSTALLED IN THIS CONTRACT. DAISY–CHAIN OF CONDUITS & CABLE IS NOT ALLOWED.

S-5 FURNISH AND INSTALL (1)–1" CONDUIT HOMERUNS TO THE MDF/IDF/ELECTRONICS EQ. ROOMS. DAISY–CHAIN OF CONDUITS & CABLE NOT ALLOWED. ONE HOMERUN PER OUTLET.

S-6 CONNECT POWER DIRECTLY TO THE EQUIPMENT DESIGNED TO RECIEVE DIRECT CONNECTION. PROVIDE RECEPTACLE COMPATABLE WITH EQUIPMENT DESIGNED FOR PLUG–IN POWER CONNECTION. PROVIDE AND INSTALL WIRE AND CONDUIT TO PANELBOARD DESIGNATED.

S-7 HOMERUN TO LOCKING CONTROL PANEL RELAY TERMINAL CABINET. IF RELAY TERMINAL CABINET IS REMOTE FROM LOCKING CONTROL PANEL, ROUTE HOMERUN TO THE SECURITY EQUIPMENT CABINET FOR RESPECTIVE AREA.

S-8 HEAVY DUTY SECURITY TYPE PUSHBUTTON USED FOR CALL–IN AND INMATE ACCESS. PUSHBUTTON IS PROVIDED AND WIRED BY ESC CONTRACTOR, UNLESS OTHERWISE NOTED. PUSHBUTTON IS MOUNTED IN A JUNCTION BOX WITH STAINLESS STEEL COVER PLATE,

S-9 LPH1
(EMER) INDICATES THAT THE ASSOCIATED DOOR HAS TWO FUNCTIONS. "LPH1" INDICATES THE CONTROL POINT AND THAT THIS DOOR IS USED FOR NORMAL OPERATION. "(EMER)" INDICATES THAT THE ASSOCIATED DOOR SHALL REMAIN HELD OPEN CONTINUOUSLY DURING EMERGENCY CONDITIONS, SEE SPECIFICATIONS. HOMERUN INCLUDES CONDUIT, POWER AND CONTROL WIRE FROM THE LOCKING DEVICES TO THE RESPECTIVE CONTROL PANEL.

GENERAL NOTES:

G-1 REFER TO THE APPROPRIATE DRAWINGS FOR THE EXACT LOCATION OF EQUIPMENT INSTALLED UNDER OTHER DIVISIONS OF THE DOCUMENTS WHICH REQUIRE ELECTRICAL SERVICE AND MECHANICAL CONNECTIONS.

G-2 EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSTALLED IN ALL RACEWAYS.

G-3 ASTERISK (*) ADJACENT TO ANY SPEAKER SYMBOL INDICATES SPEAKER TO BE PROVIDED WITH SECURITY TYPE BAFFLE. SEE SPECIFICATIONS.

G-4 ASTERISK (*) ADJACENT TO ANY FIRE ALARM DEVICE SYMBOL INDICATES SMOKE DETECTOR IS PROVIDED WITH SECURITY PROTECTIVE HOUSING. ALL STROBES SHALL BE 110 MINIMUM CANDELLA.

G-5 COORDINATE LOCATION OF CEILING MOUNTED EQUIPMENT WITH THE MECHANICAL AND ELECTRICAL DEVICES INSTALLED IN OR ON THE CEILING. LAYOUT EQUIPMENT PROVIDED SHOWN ON THE SECURITY DRAWINGS FOR SYMMECTRICAL LAYOUT WITH OTHER EQUIPMENT IN OR ON CEILING.

G-6 "WP" INDICATES ASSOCIATED DEVICE IS WEATHERPROOF.

G-7 COORDINATE VOICE/DATA OUTLETS WITH POWER OUTLETS. WHERE POSSIBLE INSTALL OUTLETS UNDER COMMON OUTLET BOX.

G-8 CONTRACTOR SHALL SIZE CONDUIT BASED ON N.E.C. AND WIRING MANUFACTURER USED AND ON COMBINATION OF CIRCUITS IN CONDUIT. CONDUIT SIZE SHOWN ON DRAWINGS IS MINIMUM SIZE.

G-9 MINIMUM SIZE CONDUIT, ALL SYSTEMS 3/4", UNLESS OTHERWISE NOTED.

G-10 SMOKE DETECTOR AND ASSOCIATED JUNCTION BOX SHALL BE PROVIDED BY THE SECURITY CONTRACTOR, INSTALLED BY THE MECHANICAL CONTRACTOR AND WIRED BY THE SECURITY CONTRACTOR. FLEX CONDUIT SHALL BE PROVIDED AND INSTALLED BY THE SECURITY CONTRACTOR. WIRING FROM DUCT DETECTORS TO HVAC UNITS SHALL BE PROVIDED BY MECHANICAL CONTRACTOR.

G-11 POWER CIRCUITS FOR THE SECURITY EQUIPMENT ARE SHOWN ON THE ELECTRICAL DRAWINGS. CONDUIT, WIRING AND TERMINATIONS AT DEVICES ARE BY THE ELECTRICAL CONTRACTOR, TERMINATIONS AT THE POWER PANELBOARD ARE BY THE ELECTRICAL CONTRACTOR.

G-12 COORDINATE WITH THE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR CONDUIT REQUIREMENTS.

G-13 ALL CONDUIT SHALL BE CONCEALED WITHIN THE CEILING, SLAB OR WALLS. NO EXPOSED/SURFACE CONDUIT IS ACCEPTABLE. CONDUIT MAY BE EXPOSED IN THE SECURITY EQUIPMENT ROOM ONLY. IF SURFACE MOUNTED CONDUITS ARE REQUIRED, POST WALL & CEILING CONSTRUCTION, THEN RIGID CONDUIT ONLY, SURFACE TYPE JUNCTION BOXES, (NO RECESSED BOXES) AND STRAPPED EVERY SIX (6").

G-14 MOUNT ALL DEVICES IN HANDICAP AREAS IN ACCORDANCE WITH ADA STANDARDS. SEE ARCHITECTURALS FOR LOCATIONS. 'H' INDICATES HANDICAP, MOUNT DEVICE AT 48" AFF.

G-15 THE FIRE ALARM SYSTEM SHALL BE FULLY ADDRESSABLE. ALL DETECTOR HEADS SHALL BE ADDRESSABLE AND SHALL BE CAPABLE OF PROVIDING INDIVIDUAL ANNUNCIATION ON THE RESPECTIVE LOCKING CONTROL PANELS.

G-16 ANY CABLE ABOVE ALL CEILINGS IN THE ENTIRE PROJECT SHALL BE PLENUM RATED CABLE. HVAC IS USING THE ENTIRE CEILING SPACE ABOVE LAY–IN CEILINGS AS RETURN AIR PLENUMS.

TYPICAL TOUCHSCREEN NOTES

1. PROVIDE SHOP DRAWINGS FOR REVIEW/APPROVAL BY THE OWNER AND CONSULTANT. DO NOT MANUFACTURER ANY LOCKING TOUCH SCREEN CONTROL PANELS UNTIL A PANEL REVIEW MEETING HAS BEEN EXECUTED. THE MEETING SHALL BE HELD AT THE PROJECT SITE OR THE OWNERS OFFICE.
2. PROVIDE ROOM NAMES AND DOORS NUMBER ON ALL PANEL GRAPHICS. PROVIDE COLOR GRAPHICS FOR REVIEW DURING THE SHOP DRAWING PHASE FOR REVIEW BEFORE MANUFACTURING ANY GRAPHICS. ALL GRAPHICS COLOR, NOMENCLATURE, ETC. SHALL BE BY GDOC STANDARDS.
3. FIELD VERIFY ALL EXISTING MILLWORK DIMENSIONS SO THAT THE NEW TOUCHSCREEN UNITS WILL HAVE ADAQUATE SPACE FOR MONITOR, KEYBOARD, MOUSE, ETC. FIELD VERIFY UNDERNEATH ALL MILLWORK SO THAT THERE IS ADAQUATE SPACE FOR THE TOUCHSCREEN PC, UPS POWER SUPPLIES, SECURITY EQUIPMENT CABINETS, ETC. ALL EQUIPMENT BELOW MILLWORK SHALL BE IN A SECURE CABINET CONSTRUCTED OF EXPANDED METAL,. SEE DETAILS ON THE LARGE SCALE CONTROL ROOM LAYOUTS.
4. COORDINATE EXACT LOCATION OF EACH PANEL IN EACH CONTROL ROOM BEFORE MANUFACTURING. ANY PANEL GRAPHICS THAT IS NOT ORIENTED CORRECTLY SHALL BE REJECTED AND REPLACED AT CONTRACTORS EXPENSE. FIELD VERIFY GRAPHIC ORIENTATION.
5. THE TOUCHSCREEN SYSTEM SOFTWARE SHALL PROVIDE A COMPONENT OF "PUSHING" ANY ALARM, EMERGENCY, FIRE EXIT, UNSECURE ROOF HATCHES, ETC., (OR ANY EMERGENCY ALARM) TO ANY MOBILE DEVICE SUCH AS A CELL PHONE, AN EMAIL ADDRESS, A LAND LINE, ETC. COORDINATE WITH THE OWNER & DESIGN PROFESSIONAL FOR EXACT ALARMS AND DEVICES REQUIRED TO COMMUNICATE WITH.
6. FOR THIS PROJECT, THE TOUCHSCREEN SYSTEM SHALL PUSH AT MINIMUM ALL UNSECURE FIRE DOORS AND ALL ROOF HATCH POSITION SWITCH FOR ALL BUILDINGS AND ALL HOUSING UNITS. THE SYSTEM SHALL PUSH THE ALARM TO MAIN CONTROL FIRST, THEN PUSH TO AN EMAIL PROVIDED BY THE OWNER.
7. PROVIDE A COMPLETE WARNING/PUSHING SYSTEM TO ACCOMPLISH ITEMS 5 & 6 ABOVE. GALLAGHER MOBILE CONNECT SDK COMMAND CENTER V7.60 OR MANUFACTURED BY RAPID WARN AND MOTOROLA AND APPROVED EQUAL. PLACE THE PC HEADEND EQUIPMENT IN CENTRAL CONTROL AND COORDINATE LOCATION WITH THE OWNER..

VOICE / DATA / TV SYSTEMS

SYMBOL	DESCRIPTION	MTG. HEIGHT NOTE S-2
	VOICE/DATA TERMINATION BACKBOARD. PROVIDE #6 AWG GROUND WIRE TO THE BUILDING ELECTRICAL GROUND SYSTEM. CIRCLES INDICATE LOCATION OF CONDUIT STUB UPS. SEE SITE PLAN AND LARGE SCALE EQUIPMENT ROOMS FOR LOCATIONS.	
◀	WALL MOUNTED VOICE/DATA OUTLET. NOTE S–4	16"
◀F	FLOOR MOUNTED VOICE/DATA OUTLET. NOTE S–4	
◀VV	DATA OUTLET FOR VIDEO VISITATION SYSTEM.	44"
◀P	WALL MOUNTED VOICE/DATA OUTLET FOR INMATE PAY PHONE SYSTEM.	48"
WIFI	WIFI UNIT. ROUTE (2) CAT6 CABLES TO THE NEAREST ELECTRONIC SECURITY ROOM.	
◀TV	WALL MOUNTED TELEVISION OUTLET. NOTE S–5	16"
TV◀F	FLOOR MOUNTED TELEVISION OUTLET. SEE NOTE S–5.	

RACEWAY AND CIRCUITING SYSTEM

SYMBOL	DESCRIPTION	MTG. HEIGHT NOTE S-2
J	JUNCTION BOX. SEE FLOOR PLANS FOR EXACT SIZE.	
J S	FLOOR MOUNTED JUNCTION BOX. "S" = SURFACE, "R" = RECESSED.	
PB	GROUND MOUNTED PULL BOX.	
LPCC (EMER) (S)	ARROWHEAD INDICATES HOMERUN. "LPCC" ADJACENT TO HOMERUN ARROWHEAD INDICATES HOMERUN TO LOCKING CONTROL PANEL "LPCC". SEE NOTE S–10. 'S' INDICATES STATUS ONLY	
	RACEWAY INSTALLED CONCEALED IN WALL AND \ OR ABOVE CEILING.	
	RACEWAY INSTALLED CONCEALED IN SLAB OR BELOW GRADE.	
	RACEWAY INSTALLED EXPOSED.	
	CONDUIT UP \ CONDUIT DOWN	
	GROUND. #6 AWG TO 8'–0" COPPERWELD GROUND ROD	
WH	WEATHERHEAD	
SUR	SURGE PROTECTION DEVICE	

CLOSED CIRCUIT TELEVISION

SYMBOL	DESCRIPTION	MTG. HEIGHT NOTE S-2
CS	IPCTV CLIENT STATION. INCLUDES PC, MONITOR, KEYBOARD AND MOUSE. MONITOR SHALL BE 25" MINIMUM. ALL CLIENT STATIONS SHALL HAVE A UPS BACK UP UNIT.	
A88 5	NEW INTERIOR OR EXTERIOR SMOKED DOME IP CLOSED CIRCUIT CAMERA. CAMERA SHALL BE MULTI–SENSOR LENSES, HI–RESOLUTION. PROVIDE NEW WIRE, CONDUIT, ETC. NUMBER OF TRIANGLES INDICATE NUMBER OF LENSES REQUIRED EACH CAMERA. 5 BY TRIANGLE INDICATES 5TH LENS TO COVER FIELD OF VIEW DIRECTLY BELOW CAMERA. REGARDLESS OF NUMBER OF MULTI–LENSES, EX. IF A CAMERA HAS 2 LENSES, THEN 5 WITH TRIANGLE INDICATES LENSES ON BOTTOM OF CAMERA.	
	DIRECTIONAL ARROWS INDICATE THE CAMERAS SHALL HAVE PAN, TILT ZOOM CONTROLS.	
A88	HEAVY DUTY HIGH SECURITY CORNER MOUNT IP CAMERA AND HOUSING. TO BE MOUNTED IN INMATE CELLS.	

LOCKING CONTROL SYSTEM

SYMBOL	DESCRIPTION	MTG. HEIGHT NOTE S-2
EP	ELECTRIC OPERATED HARDWARE INCLUDING POSITION SWITCHES AND \ OR LIMIT SWITCHES. REFER TO SECURITY HARDWARE SCHEDULES IN THE SPECIFICATIONS. SEE NOTE S–7 THIS SHEET.	
P	DOOR POSITION SWITCH. "K" ELECTRIC KEEPER SWITCH. REFER TO THE SECURITY HARDWARE SCHEDULES AND THE SPECIFICATIONS. SEE NOTE S–7 THIS SHEET.	
E E—E	INDICATES INTERLOCKING. ONLY ONE DOOR INCLUDED IN ANY SINGLE INTERLOCKING SCHEME MAY BE OPENED OR UNLOCKED AT A TIME.	
	INMATE CALL–IN PUSHBUTTON SWITCH DEVICE. SEE NOTE S–8 THIS SHEET.	48"
LP	LOCKING CONTROL PANEL WITH RELAY TERMINAL CABINET AND POWER SUPPLIES	
B	ELECTRIC LOCK OR ELECTRIC STRIKE BUILDERS HARDWARE. NOTE S–7	
	WALL MOUNTED DURESS PUSHBUTTON	
	CEILING MOUNTED DURESS RECEIVER	
V	ELECTRIC WATER SOLENOID VALVE. CONTROL FROM TOUCHSCREEN. COORDINATE WITH ELEC	
TS	TOUCHSCREEN CONTROL STATION	

ACCESS CONTROL SYSTEM

SYMBOL	DESCRIPTION	MTG. HEIGHT
MAG	ELECTRIC OPERATED MAGNETIC LOCK(S) INCLUDING POSITION SWITCHES AND \ OR LIMIT SWITCHES. BY OTHERS.	
E	ELECTRIC OPERATED ELECTRIC STRIKE INCLUDING POSITION SWITCHES AND \ OR LIMIT SWITCHES. BY OTHERS.	
P	DOOR POSITION INDICATOR	
	INFRARED SENSORS	
REX	EXIT REQUEST PUSHBUTTON	
K	KEY SWITCH FOR LOCAL UNLOCK	
CR	HID PROXIMITY CARD READER	
KP	KEY PAD CARD READER	

FIRE ALARM SYSTEM

SYMBOL	DESCRIPTION	MTG. HEIGHT NOTE S-2
K F L	FIRE ALARM MANUAL INITIATING STATION. "L" INDICATES FLUSH LOCKED BOX "K" INDICATES ACTIVATED BY A KEY	48"
F ✱	FIRE ALARM HORN, WITH VISUAL INDICATOR, WALL MOUNTED.	80" AFF
F ✱M	'M' INDICATES MOUNT 80" AFF OF MEZZANINE WALKWAY.	80" AFF
✱	CEILING MOUNTED ADDRESSABLE SMOKE DETECTOR HEAD.	
H ✱	CEILING MOUNTED ADDRESSABLE THERMAL DETECTOR HEAD.	
S	FIRE ALARM VISUAL STROBE ONLY, WALL MOUNTED	80" AFF
D	DUCT MOUNTED ADDRESSABLE SMOKE DETECTOR HEAD.	
F	FIRE SUPPRESSION SYSTEM FLOW SWITCH.	
T	FIRE SUPPRESSION SYSTEM TAMPER SWITCH.	
P	FIRE SUPPRESSION SYSTEM PRESSURE SWITCH.	
SV	ELECTRIC OPERATED GAS VALVE.	
H	WALL MOUNTED MAGNETIC DOOR HOLDER AND RELEASE.	
	CHASE MOUNTED SMOKE DETECTOR	
RFAP	REMOTE FIRE ALARM CONTROL PANEL	
	FIRE ALARM CONTROL PANEL	
D F	MOUNT BELOW RAISED FLOOR. SMOKE DETECTOR HEAD.	
FD	FIRE DAMPER CONNECT TO THE MAIN FIRE ALARM PANEL	

COMMUNICATIONS SYSTEM

SYMBOL	DESCRIPTION	MTG. HEIGHT NOTE S-2
M	MASTER COMMUNICATION STATION AND MONITORING EQUIPMENT. SEE ONE LINE DIAGRAM FOR INTERCONNECTION OF MASTER TO MASTER REQUIREMENTS.	
I F	INTERCOM STAFF STATION WITH CALL ORIGINATION. 'F' INDICATED MOUNTED IN FRAME. COORDINATE INSTALLATION WITH THE HOLLOW METAL MANUFACTURER.	48"
S ✱	CEILING MOUNTED SOUND SYSTEM SPEAKER.	
WP S	WALL MOUNTED HORN, MOUNT 12" BELOW CEILING UNLESS OTHERWISE NOTED. "WP" INDICATES WEATHERPROOF.	
P	PUBLIC ADDRESS MASTER	
S	WALL MOUNTED SPEAKER. MOUNT 12" BELOW CEILING.	
A	ADMINISTRATIVE INTERCOM SYSTEM	

EXISTING CONDITIONS NOTES:

EX-1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXACT DIMENSIONS OF ALL CONDUIT AND WIRE FOR THE ELECTRONIC SECURITY WORK. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS FOR ALL HOMERUNS TO THE NEW AND EXISTING EQUIPMENT.

EX-2 THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF CONDUITS. ANY DAMAGE TO THE EXISTING UTILITIES SHALL BE RESTORED TO THE ORIGINAL CONDITION AT NO COST TO THE OWNER.

EX-3 THE CONTRACTOR SHALL TURN OVER TO THE OWNER ALL EXISTING SECURITY EQUIPMENT THAT IS TO BE REMOVED AND REPLACED.

CABLE COLOR CODES

WHITE –CAT 6 – ALL VOICE CABLING
BLUE –CAT 6 – ALL DATA CABLING
GREEN –CAT 6 – ALL MATV TELEVISION CABLING
YELLOW –CAT 6 – ALL IPCTV CABLING
RED –CAT 6 – ALL ACCESS CONTROL CABLING

STUDIO8 design
architecture
2722 North Oak Street
Valdosta, Georgia 31602
P.(229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

TANNER HOSKINS ENGINEERING CONSULTANTS, LLC
ELECTRONIC SECURITY SYSTEMS, ELECTRICAL, LOW VOLTAGE & SECURITY HARDWARE
3447 Lake Seminole Place
Buford, Georgia 30519
ftanner@tannerhoskins.com
678-656-8832 mobile
www.tannerhoskins.com

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A HOUSING FACILITY FOR
NEWBERRY COUNTY DETENTION CENTER
NEWBERRY, SOUTH CAROLINA

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER JOHN ROBERT [illegible] 34679 JOHN R. HOSKINS

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REV.	REV.
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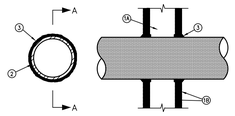
LEGEND AND GENERAL NOTES SECURITY

ES.01

SYSTEM NO. WL1001

(FORMERLY SYSTEM NO. 147)

F RATINGS- 1, 2, 3, and 4 hr (see items 2 and 3)
T RATINGS - 0, 1, 2, 3, and 4 Hr (See Item 3)
L Rating At Ambient - less than 1 CFM/sq. ft.
L Rating At 400 F - less than 1 CFM/ sq. ft.



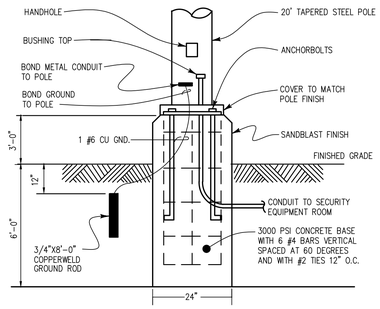
SECTION A-A

1. Wall Assembly – The 1, 2, 3 or 4 hr. fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs – Wall framing may consist of either wood studs (max 2 hr. fire rated assemblies) or steel channel studs. Wood studs to consist of nom. 2 by 4 in. lumber spaced 16 in. OC with nom. 2 by 4 in. lumber end plates and cross braces. Steel studs to be min. 3-5/8 in. wide by 1-3/8 in. deep channels spaced max. 24 in. OC.
   B. Wallboard, Gypsum* – Nom 1/2 or 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max. diam. of opening is 13-1/2 in.
2. Conduit – 4 in. diam. (or smaller) multi-conductor cable. Cable to be installed near center of stud cavity width and to be rigidly supported on both sides of wall assembly.
3. Fill, Void or Cavity Material* – Caulk – Caulk fill material installed to completely fill annular space between cable and gypsum wallboard and with a min. 1/4 in. diam. bead of caulk applied to cable at its egress from the wall. Caulk installed symmetrically on both sides of wall assembly. The hourly F rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max. Cable Diam., in.	Annular Space, in.	F rating, Hr.	T Rating, Hr.
1	0 to 3/16	1 or 2	1 or 2
1	1/4 to 1/2	3 or 4	3 or 4
4	0 to 1/4	1 or 2	0
4	0 to 1-1/2#	1 or 2	0

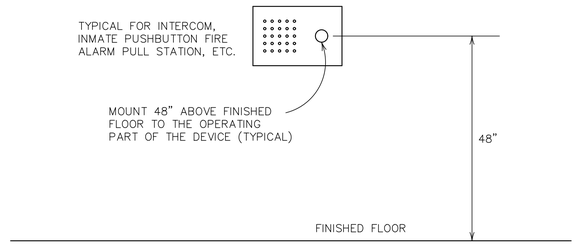
#0 to 1-1/2 in. annular space applies only when Type CP-25 WB+ caulk is used and only when the min. thickness of the gypsum wallboard is 5/8 in. for 1 hr. rated walls and 1-1/4 in. for 2 hr. rated walls.

Minnesota Mining & Mfg. Co. – CP 25WB+.
*Bearing the UL Classification Marking

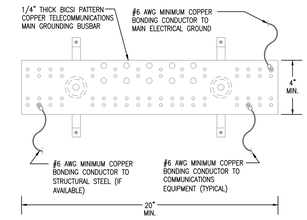


1 ES02 **POLE BASE - CCTV CAMERA**
NO SCALE

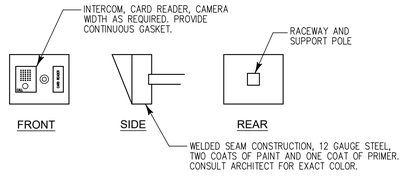
7 ES02 **CABLE PENETRATION AT RATED WALL**
NO SCALE



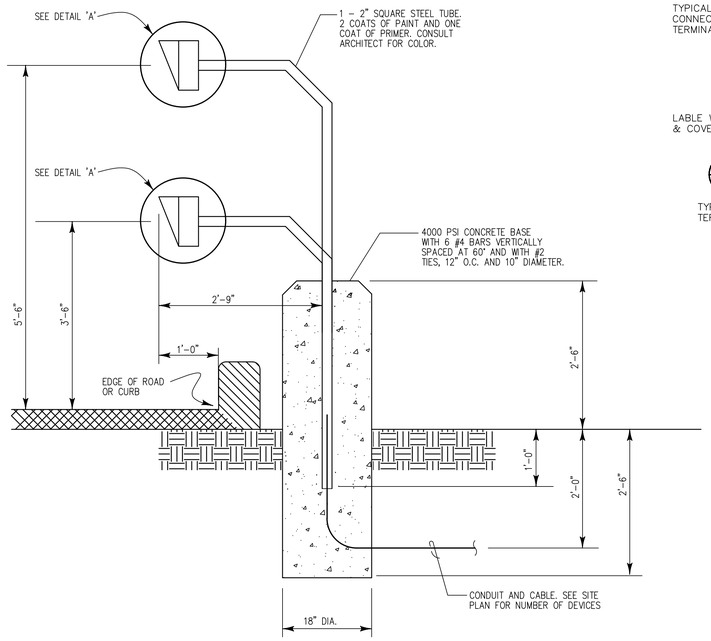
8 ES02 **TYPICAL ADA HANDICAP MOUNTING HEIGHT**
SCALE: NONE



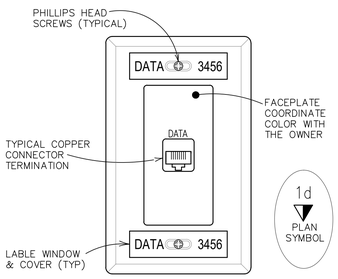
6 ES02 **TELECOMMMUNICATIONS MDF GROUNDING BUSBAR**
SCALE: NONE



DETAIL 'A'

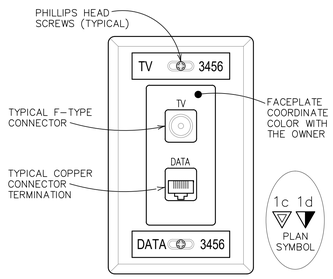


1 ES02 **VEHICLE INTERCOM/CAMERA/CARD READER PEDESTAL**
SCALE: NONE



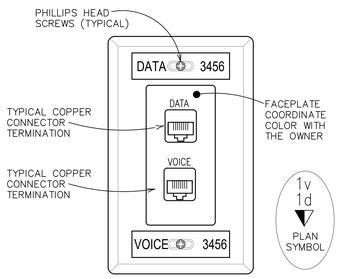
5 ES02 **DATA OUTLET**
SCALE: FULL SIZE

TYPICAL VOICE & DATA OUTLET. PROVIDE JUNCTION BOX, TERMINATIONS, CONNECTORS, WIRE, FACEPLATE, ETC.



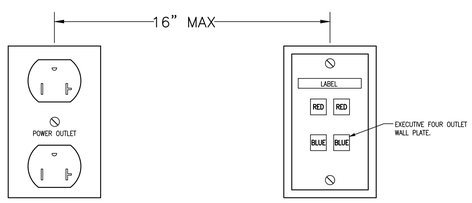
4 ES02 **CATV / DATA OUTLET**
SCALE: FULL SIZE

TYPICAL VOICE & DATA OUTLET. PROVIDE JUNCTION BOX, TERMINATIONS, CONNECTORS, WIRE, FACEPLATE, ETC.



3 ES02 **VOICE / DATA OUTLET**
SCALE: FULL SIZE

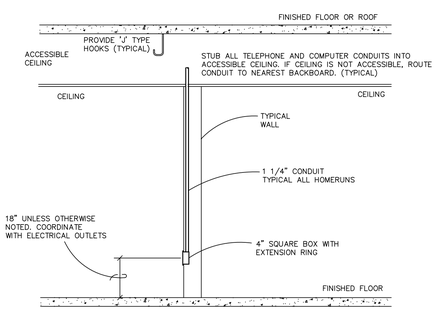
TYPICAL VOICE & DATA OUTLET. PROVIDE JUNCTION BOX, TERMINATIONS, CONNECTORS, WIRE, FACEPLATE, ETC.



COORDINATE DATA OUTLETS WITH POWER OUTLETS.
COVER PLATES ARE NOT REQUIRED IN ALL NON-INMATE AREAS.
PROVIDE A STAINLESS STEEL COVER PLATE FOR ALL OUTLETS, ALL INMATE AREAS.

2 ES02 **TYPICAL OUTLET CONFIGURATION**
SCALE: HALF SIZE

THE CONTRACTOR SHALL COORDINATE THE POWER AND PHONE/DATE OUTLETS SHOWN ON THE TWO SETS OF DRAWINGS. WHERE DEVICES ARE SHOWN ON THE SAME WALL THEY SHALL BE INSTALLED AS SHOWN ABOVE. THIS APPLIES TO THE JAIL AND COURT BUILDINGS.



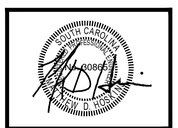
1 ES02 **TYPICAL VOICE/DATA OUTLET & HOMERUN DETAIL**
NOT TO SCALE
ACCESSIBLE CEILING

STUDIO8 design
architecture
2722 North Oak Street
Valdosta, Georgia 31602
P.(229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

TANNER HOSKINS ENGINEERING CONSULTANTS, LLC
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3447 Lake Seminole Place
Buford, Georgia 30519
tanner@tannerhoskins.com
678-656-8832 mobile
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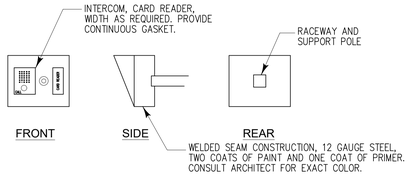
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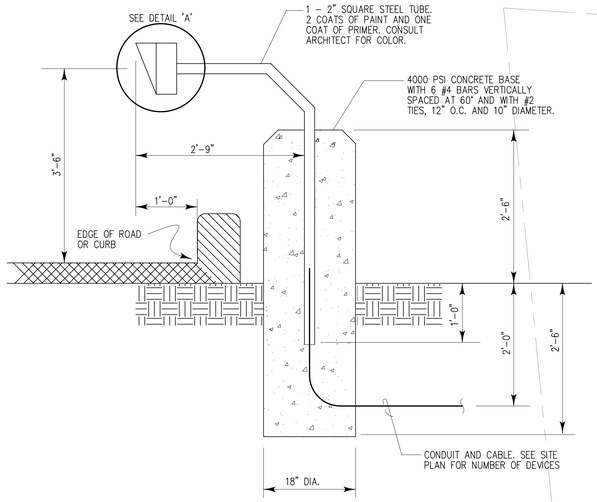
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LEGEND AND GENERAL NOTES SECURITY

ES.02



DETAIL 'A'

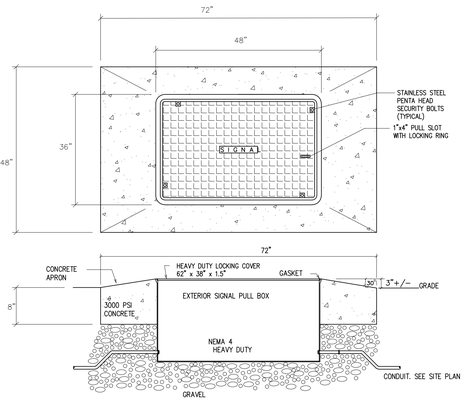


3 ES11 VEHICLE CAMERA/CARD READER PEDESTAL

SCALE: NONE

NOTES: (FOR DETAIL 3/ES11)

1. BOX SHALL BE NON-METALLIC, RESISTANT TO SUNLIGHT AND FREEZING.
2. DESIGN LOAD OF 5000 LBS OVER 10" SQUARE WITH A MINIMUM TEST LOAD OF 12,000 LBS.
3. SYSTEM CONDUCTORS SHALL BE LAID IN PLASTIC TRAY WITH LID.
4. WRITE SYSTEM CONDUCTORS IN INDELIBLE INK ON THE LID OF THE PLASTIC TRAY.
5. BOLTS TO FASTEN THE LID SHALL BE STAINLESS STEEL, TAMPERPROOF.
6. SEAL ALL PVC CONDUITS ENTERING THE BOX, AFTER CONDUCTORS HAVE BEEN INSTALLED.
7. TOP OF PULL BOX SHALL BE MINIMUM OF 3" TO 6" ABOVE FINISHED GRADE.
8. PROVIDE A PADLOCK FOR EACH LOCKING POINT ON THE PULL BOX, EACH PULL BOX.
9. ALL PADLOCKS SHALL BE KEYED ALIKE. PROVIDE AT LEAST SIX SETS OF KEYS.
10. PULL BOX SHALL HAVE SOLID BASE.
11. PULL BOX SHALL BE "QUAZITE LG3660DA36" OR EQUAL.

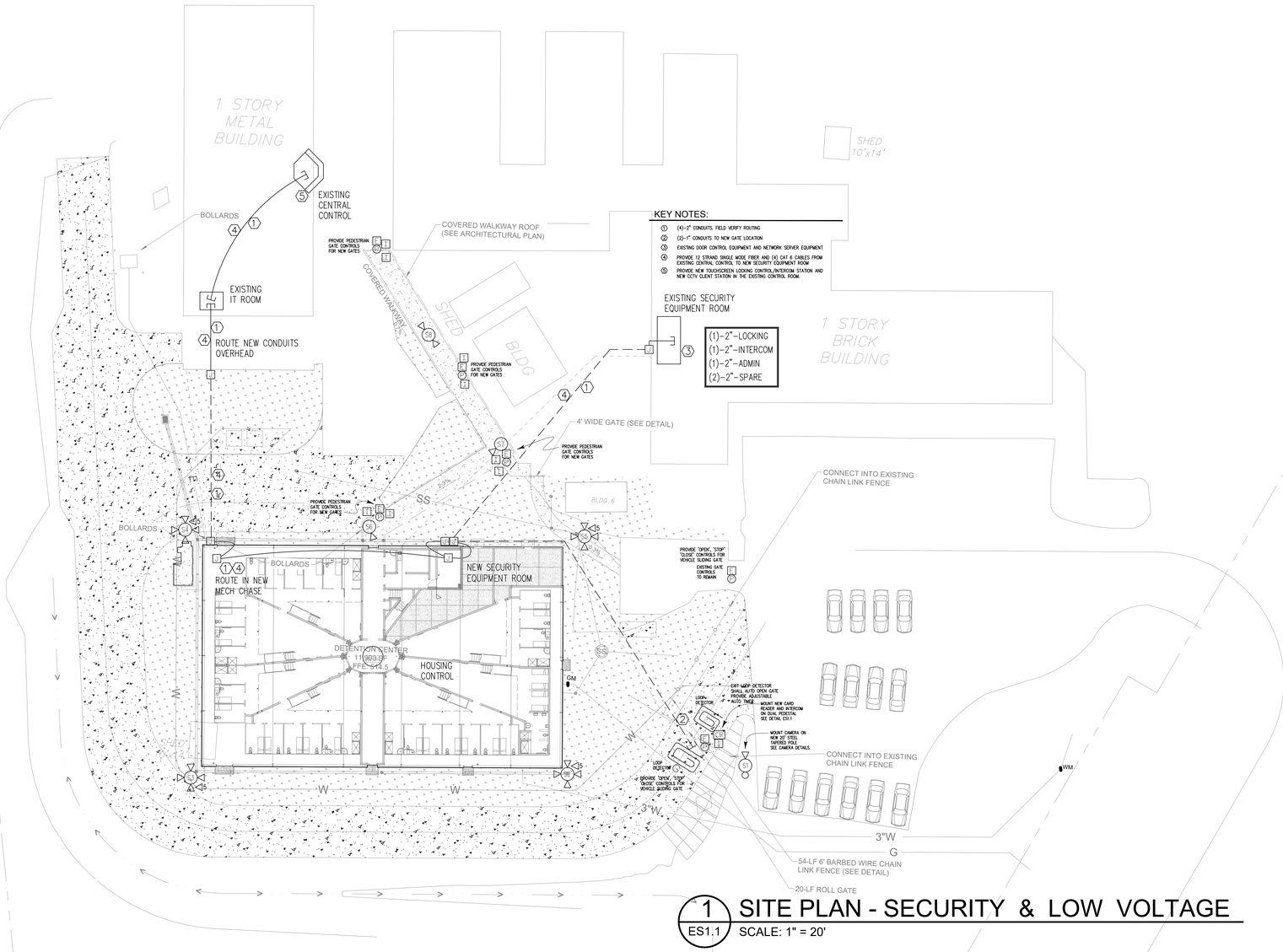


2 ES11 PULL BOX DETAIL

SCALE: 1" = 1'-0"

KEY NOTES:

1. (4)–2" CONDUITS. FIELD VERIFY ROUTING
2. (2)–1" CONDUITS TO NEW GATE LOCATION
3. EXISTING DOOR CONTROL EQUIPMENT AND NETWORK SERVER EQUIPMENT
4. PROVIDE 12 STRAND SINGLE MODE FIBER AND (4) CAT 6 CABLES FROM EXISTING CENTRAL CONTROL TO NEW SECURITY EQUIPMENT ROOM



1 ES1.1 SITE PLAN - SECURITY & LOW VOLTAGE

SCALE: 1" = 20'

NOTES:

1. CONDUITS SHOWN ARE APPROXIMATE ONLY. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXACT DIMENSIONS OF ALL CONDUIT AND WIRE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO TO INSTALLATION OF NEW CONDUITS. ANY DAMAGE TO THE EXISTING UTILIES SHALL BE RESTORED TO THE ORIGINAL CONDITION AT NO COST TO OWNER.
3. THE CONTRACTOR SHALL PROVIDE, FOR APPROVAL, A SITE PLAN REFLECTING THE EXACT CONDUIT AND PULL BOX LOCATIONS. THESE DRAWING SHALL BECOME PART OF THE AS BUILT DRAWINGS.
4. TELEPHONE, TELEVISION AND CONDUITS SHOWN ARE APPROXIMATE ONLY. IF UTILITY COMPANIES CONNECTION IS AT A DIFFERENT LOCATION, CONTRACTOR SHALL BE RESPONSIBLE FOR INTERCEPTING SERVICE AT THE LOCATION PROVIDED BY UTILITY COMPANY. MAXIMUM LENGTH 1000 FEET.
5. REFER TO CIVIL DRAWINGS FOR ALL EXACT UTILITY LOCATIONS.
6. PROVIDE PULL WIRE IN ALL CONDUITS.
7. MOUNT POLE FOR ALL CCTV CAMERAS 10' MINIMUM FROM ANY FENCING, TYPICAL UNLESS OTHERWISE SHOWN. COORDINATE EXACT LOCATION WITH OWNER AND CIVIL DRAWINGS.
8. POST INDICATOR VALVE. HOMERUN TO THE FIRE ALARM PANEL LOCATED IN THE MAIN CONTROL ROOM. COORDINATE EXACT NUMBER OF PIV'S AND EACH LOCATION WITH THE CIVIL AND PLUMBING DRAWINGS.

STUDIO8 design
architecture
2722 North Oak Street
Valdosta, Georgia 31602
P. (229) 244-1188
info@s8darchitects.com
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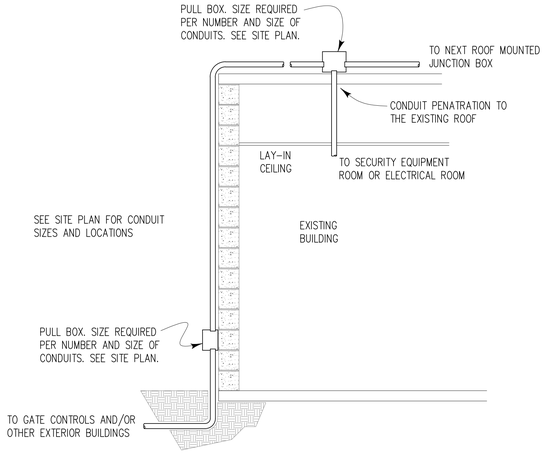
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 30866 KEVIN D. HOSKINS

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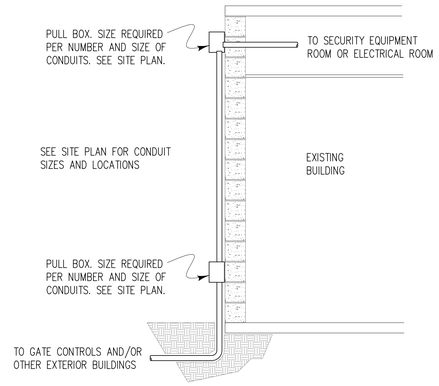
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REV.	CODE COMPLIANCE REV MAY 15, 2024	REV.	
REV.	BID SET 25 JUNE, 2024	REV.	
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SITE PLAN SECURITY AND LOW VOLTAGE

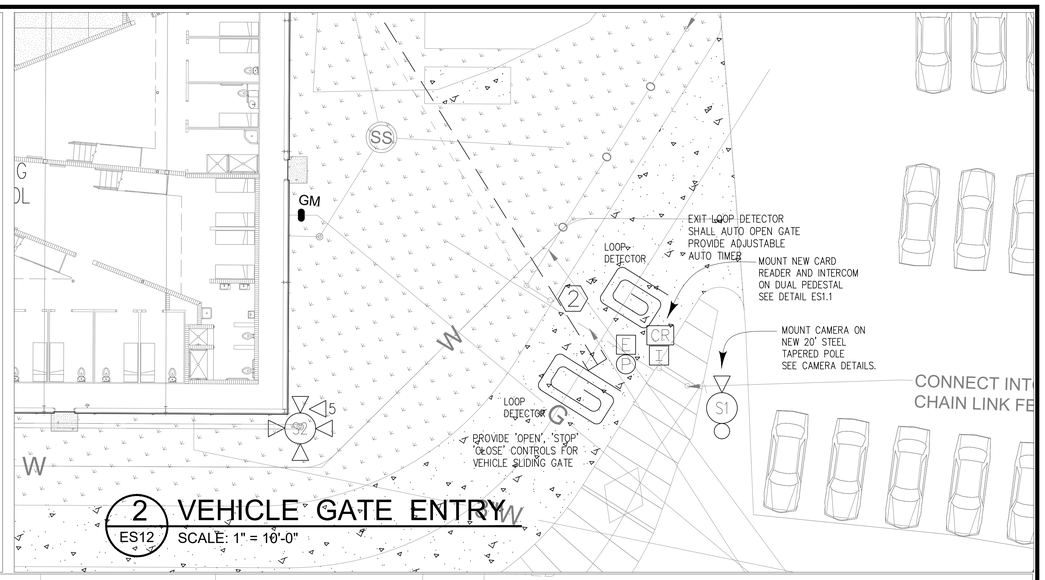
ES1.1



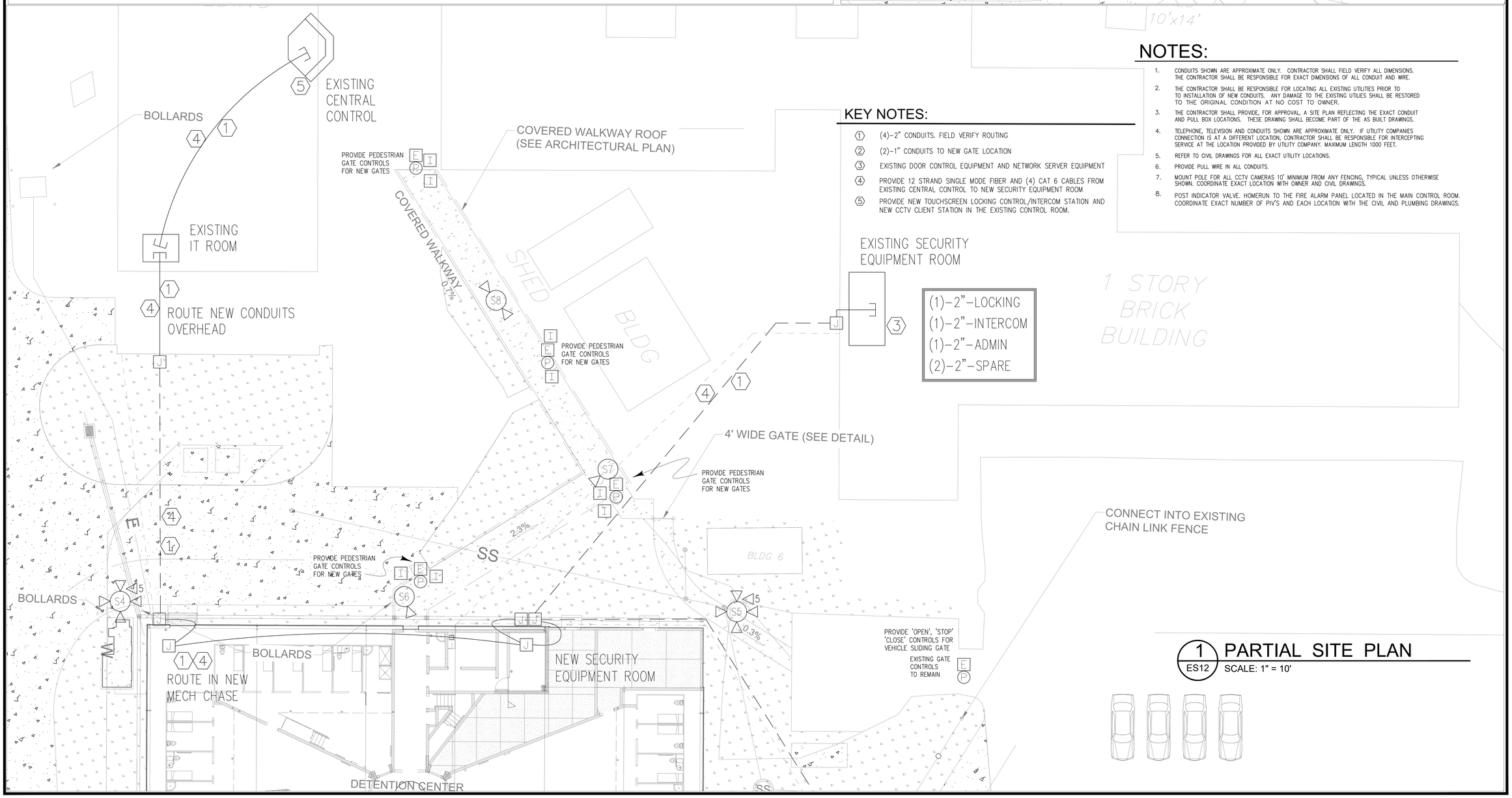
3 ES12 ROOF MOUNTED CONDUIT AT EXISTING BUILDINGS
SCALE: 1/2" = 1'-0"



4 ES12 CONDUIT ENTRY AT EXISTING BUILDINGS
SCALE: 1/2" = 1'-0"



2 ES12 VEHICLE GATE ENTRY
SCALE: 1" = 10'-0"



KEY NOTES:

1. (4)-2" CONDUITS. FIELD VERIFY ROUTING
2. (2)-1" CONDUITS TO NEW GATE LOCATION
3. EXISTING DOOR CONTROL EQUIPMENT AND NETWORK SERVER EQUIPMENT
4. PROVIDE 12 STRAND SINGLE MODE FIBER AND (4) CAT 6 CABLES FROM EXISTING CENTRAL CONTROL TO NEW SECURITY EQUIPMENT ROOM
5. PROVIDE NEW TOUCHSCREEN LOCKING CONTROL/INTERCOM STATION AND NEW CCTV CLIENT STATION IN THE EXISTING CONTROL ROOM.

NOTES:

1. CONDUITS SHOWN ARE APPROXIMATE ONLY. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXACT DIMENSIONS OF ALL CONDUIT AND WIRE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO TO INSTALLATION OF NEW CONDUITS. ANY DAMAGE TO THE EXISTING UTILIES SHALL BE RESTORED TO THE ORIGINAL CONDITION AT NO COST TO OWNER.
3. THE CONTRACTOR SHALL PROVIDE, FOR APPROVAL, A SITE PLAN REFLECTING THE EXACT CONDUIT AND PULL BOX LOCATIONS. THESE DRAWING SHALL BECOME PART OF THE AS BUILT DRAWINGS.
4. TELEPHONE, TELEVISION AND CONDUITS SHOWN ARE APPROXIMATE ONLY. IF UTILITY COMPANIES CONNECTION IS AT A DIFFERENT LOCATION, CONTRACTOR SHALL BE RESPONSIBLE FOR INTERCEPTING SERVICE AT THE LOCATION PROVIDED BY UTILITY COMPANY. MAXIMUM LENGTH 1000 FEET.
5. REFER TO CIVIL DRAWINGS FOR ALL EXACT UTILITY LOCATIONS.
6. PROVIDE PULL WIRE IN ALL CONDUITS.
7. MOUNT POLE FOR ALL CCTV CAMERAS 10' MINIMUM FROM ANY FENCING, TYPICAL UNLESS OTHERWISE SHOWN. COORDINATE EXACT LOCATION WITH OWNER AND CIVIL DRAWINGS.
8. POST INDICATOR VALVE. HOMERUN TO THE FIRE ALARM PANEL LOCATED IN THE MAIN CONTROL ROOM. COORDINATE EXACT NUMBER OF PIV'S AND EACH LOCATION WITH THE CIVIL AND PLUMBING DRAWINGS.

1 ES12 PARTIAL SITE PLAN
SCALE: 1" = 10'

STUDIO8 design
architecture
2722 North Oak Street
Valdosta, Georgia 31602
P.(229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

TANNER HOSKINS ENGINEERING CONSULTANTS, LLC
ELECTRONIC SECURITY SYSTEMS, ELECTRICAL, LOW VOLTAGE & SECURITY HARDWARE
3447 Lake Seminole Place
Buford, Georgia 30519
ttanner@tannerhoskins.com
678-656-8832 mobile
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SOUTH CAROLINA PROFESSIONAL ENGINEER 30861 DAVID D. HOSKINS

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REV.		REV.	

SITE PLAN
SECURITY AND
LOW VOLTAGE

ES1.2

NOTES:

A. PROVIDE (2) CAT 6 CABLES IN THE PADDED CELLS AND HOLDING CELLS FOR FUTURE OWNER FURNISHED EQUIPMENT. COORDINATE WITH THE OWNER ON LOCATIONS.

B. THERE SHALL BE TWO SENSORS ROTATED TO THE HALLWAY MODE AND DIRECTED DOWN EACH RESPECTIVE SIDE OF THE BUILDING. FIELD OF VIEW SHALL ALLOW VIEWING DIRECTLY UNDER THE CAMERA. THE OTHER TWO SENSORS SHALL REMAIN WIDE ASPECT RATIO TO VIEW THE GENERAL AREA OUTSIDE THE BUILDING.

C. DUAL SENSOR NOTE: CAMERA SHALL HAVE EACH SENSOR ROTATED TO HALLWAY MODE AND POINTED DIRECTLY AT EACH OTHER TO ACCOMODATE VIEWING DIRECTLY UNDER THE CAMERA AS WELL AS EACH DIRECTION DOWN THE CORRIDOR.

D. ROUTE (1) 3/4" CONDUIT FROM UNDER THE BOOKING DESK, UNDER SLAB, UP THE CMU WALL AND INTO THE CEILING ABOVE. THIS IS FOR FUTURE OWNER FURNISHED CAMERA. COORDINATE EXACT LOCATIONS WITH THE OWNER.

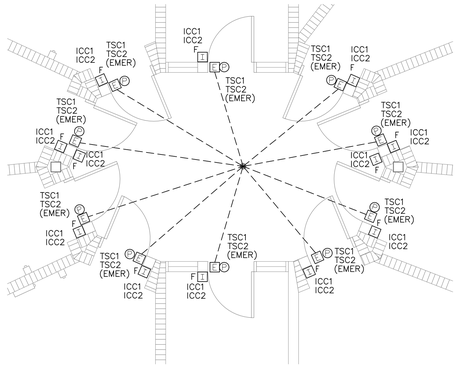
E. ROUTE ALL LOCKING, INTERCOM, CAMERA, SPEAKER, DATA, WIFI, ETC. TO THE NEAREST ELECTRONICS EQUIPMENT ROOM.

F. PROVIDE CARD READERS WHERE SHOWN. CARD READER SHALL BE MODEL NUMBER HONEYWELL OMNIPROX OR EQUAL. CARD READERS SHALL UNLOCK ASSOCIATED DOOR CARD READERS SHALL ANNUNCIATE ON THE LOCKING TOUCHSCREEN SYSTEM.

G. WALL MOUNTED JUNCTION BOX WITH "ON/OFF RECORDING" SWITCH. PROVIDE OVERHEAD INDICATOR LAMPS ABOVE THAT ILLUMINATES WHEN RECORDING IS IN PROCESS. WALL MOUNT THE MICROPHONE. ROUTE BOTH TO MDF ROOM. 3/4" EMPTY CONDUIT ONLY. TYPICAL ALL INTERVIEW ROOMS.

A6 ALL EXTERIOR MULTI-LENSES SHALL HAVE MOTORIZED PTZ AND 8MP FIXED LENS, 34MP TOTAL

A5 ALL CORNER MOUNT CAMERAS SHALL BE CAPABLE OF MASKING OFF THE TOILET AREA AND ANY AREA 3MP



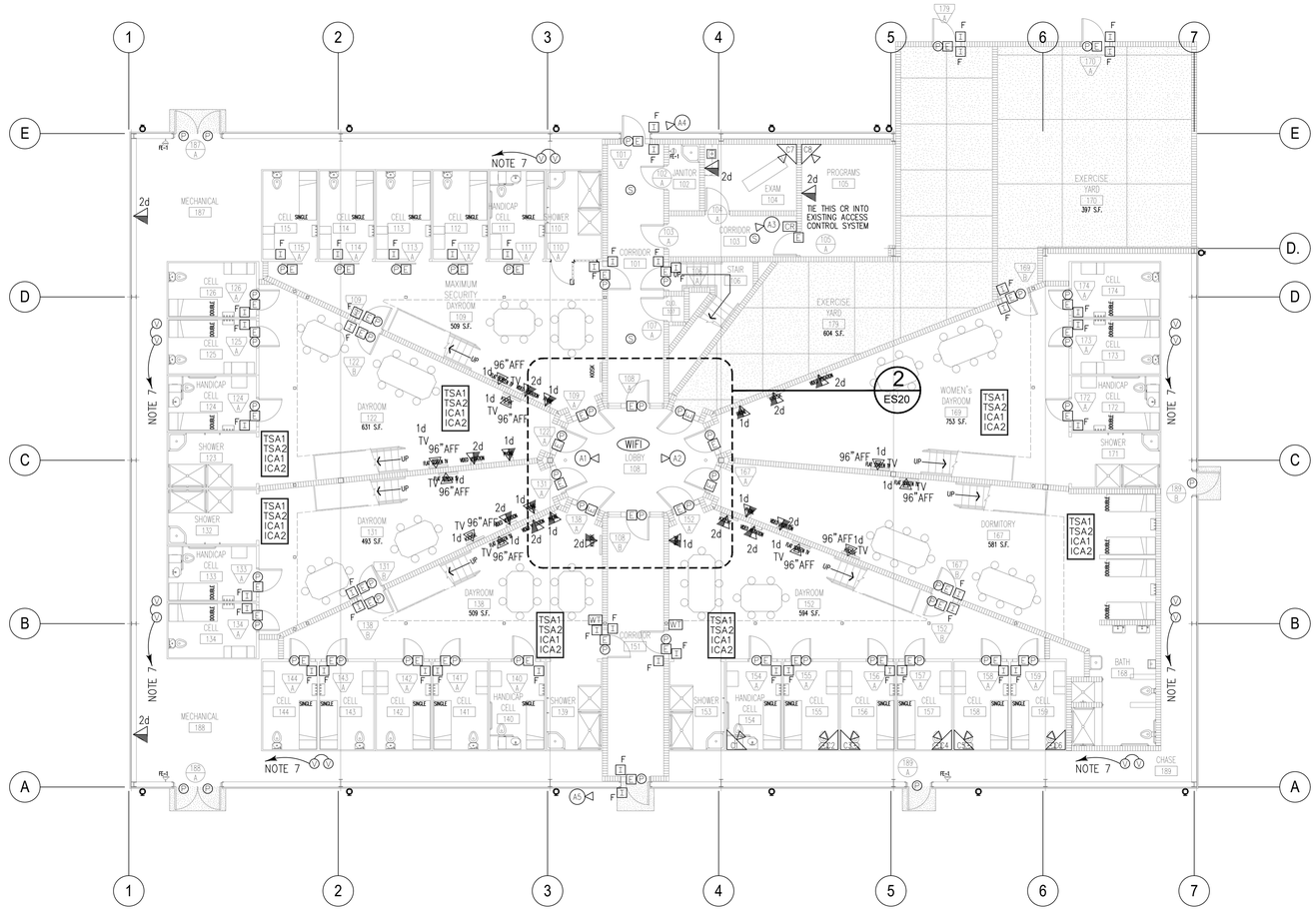
2 ES21 SALLYPORT LARGE SCALE
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. ALL ELECTRIC LOCKS IN THIS AREA SHALL BE CONTROLLED BY THE TOUCHSCREEN UNITS IN HOUSING CONTROL & CENTRAL CONTROL. HOMERUN EACH LOCK IN 3/4" CONDUIT MINIMUM. ROUTE ALL LOCKS TO THE RESPECTIVE SECURITY EQUIPMENT ROOM LOCATED ADJACENT TO HOUSING CONTROL ROOM..
2. ALL CAMERAS IN THIS AREA SHALL BE CONTROLLED BY THE HEADEND EQUIPMENT IN THE MAIN SECURITY EQUIPMENT ROOM IN MASTER CONTROL. HOMERUN EACH CAMERA IN 3/4" CONDUIT MINIMUM. ROUTE TO THE NEAREST SECURITY EQUIPMENT ROOM.
3. ALL INTERCOMS AND SPEAKERS IN THIS AREA SHALL BE CONTROLLED BY THE INTERCOM MASTER IN HOUSING CONTROL AND MASTER CONTROL UNLESS OTHERWISE NOTED. HOMERUN EACH LOCK IN 3/4" CONDUIT MINIMUM. ROUTE ALL INTERCOMS TO THE NEAREST SECURITY EQUIPMENT ROOM.
4. HOME RUN WIRING FOR ALL SLIDERS IN THE OVERHEAD SLIDER HOUSING, THEN FROM THE OVERHEAD HOUSING IN (2)-2" CONDUITS TO THE SECURITY EQUIPMENT ROOM.
5. ALL CONTROLS SHOWN HERE SHALL BE DUPLICATED AT MASTER CONTROL. TYPICAL.
6. EACH DAYROOM SPEAKERS SHALL BE A SEPARATE ZONE. CORRIDORS SHALL ALSO BE A SEPARATE ZONE. TYPICAL ALL HOUSING UNITS.
ROUTE ALL SPEAKERS TO THE NEAREST SECURITY EQUIPMENT ROOM.
7. PROVIDE CONNECTION AND CONTACTORS TO ALL WATER CONTROL VALVES, HOT, COLD AND FLUSH. COORDINATE EXACT LOCATIONS WITH THE PLUMBING DRAWINGS.
8. PROVIDE CONNECTION AND CONTACTORS TO ALL LIGHTING CONTACTORS FOR LIGHTING CONTROL. COORDINATE EXACT LOCATIONS WITH THE ELECTRICAL DRAWINGS.
9. PROVIDE CONNECTON AND CONTACTORS TO ALL PHONE, TELEVISION, VIDEO VISITATION, COMMISARY, ETC. FOR CONTROL OF EACH DEVICE FROMT THE TOUCHSCREEN LOCKING PANEL.
10. EACH CONTROL ROOM SHALL HAVE AUDIO EQUIPMENT TO MONITOR EACH ISOLATION CELL AND PADDED CELL. PROVIDE ALL NECESSARY AUDIO EQUIPMENT REQUIRED. PROVIDE ON/OFF SWITCH ON THE TOUCHSCREEN GRAPHICS.

HOME RUN LEGEND

TSB1 TSB2 ICB1 ICB2	INDICATES THAT ALL LOCKS IN THIS DAYROOM/AREA ARE CONTROLLED BY TOUCHSCREEN PANEL 'TSB1' & 'TSB2'. INDICATES THAT ALL INTERCOMS IN THIS DAYROOM/AREA ARE CONTROLLED BY INTERCOM STATION 'ICB1' & 'ICB2'. ALL INTERCOMS, LOCKS & CAMERAS SHALL BE ROUTED IN SEPARATE CONDUITS UNLESS OTHERWISE NOTED.. ALL HOMERUNS SHALL BE IN CONDUIT, NO OPEN WIRING ALLOWED.



HOUSING LOWER FLOOR PLAN

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

STUDIO8 design
architecture
2722 North Oak Street
Valdosta, Georgia 31602
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info@s8darchitects.com
www.s8darchitects.com

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3447 Lake Seminole Place
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SOUTH CAROLINA
REGISTERED
LIC. 008662
ARCHITECT
TIMOTHY D. HOSKINS

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HOUSING UNIT
LOWER LEVEL
SECURITY

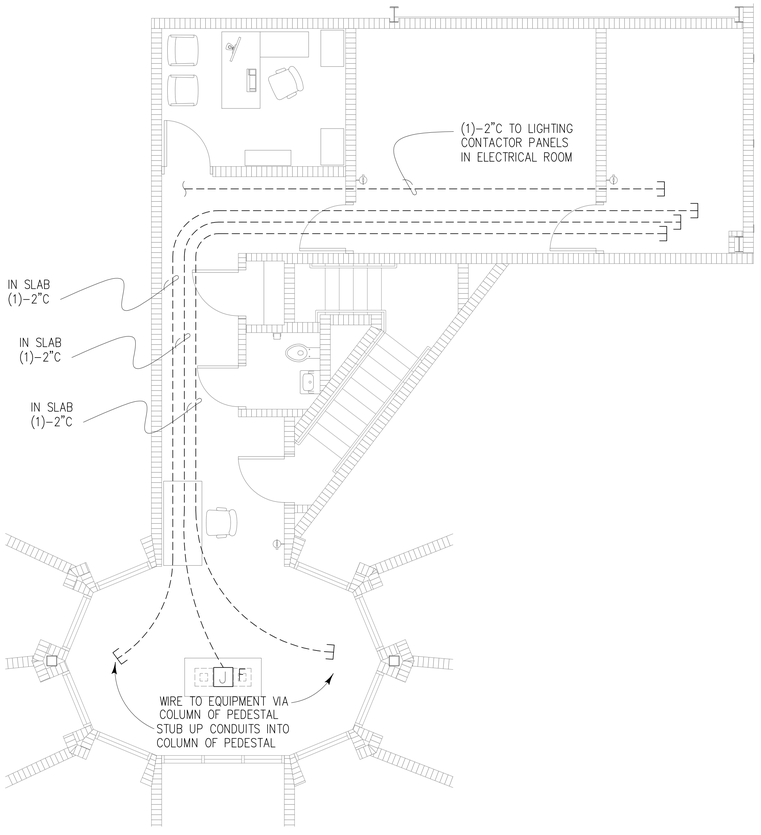
ES2.1

GENERAL NOTES:

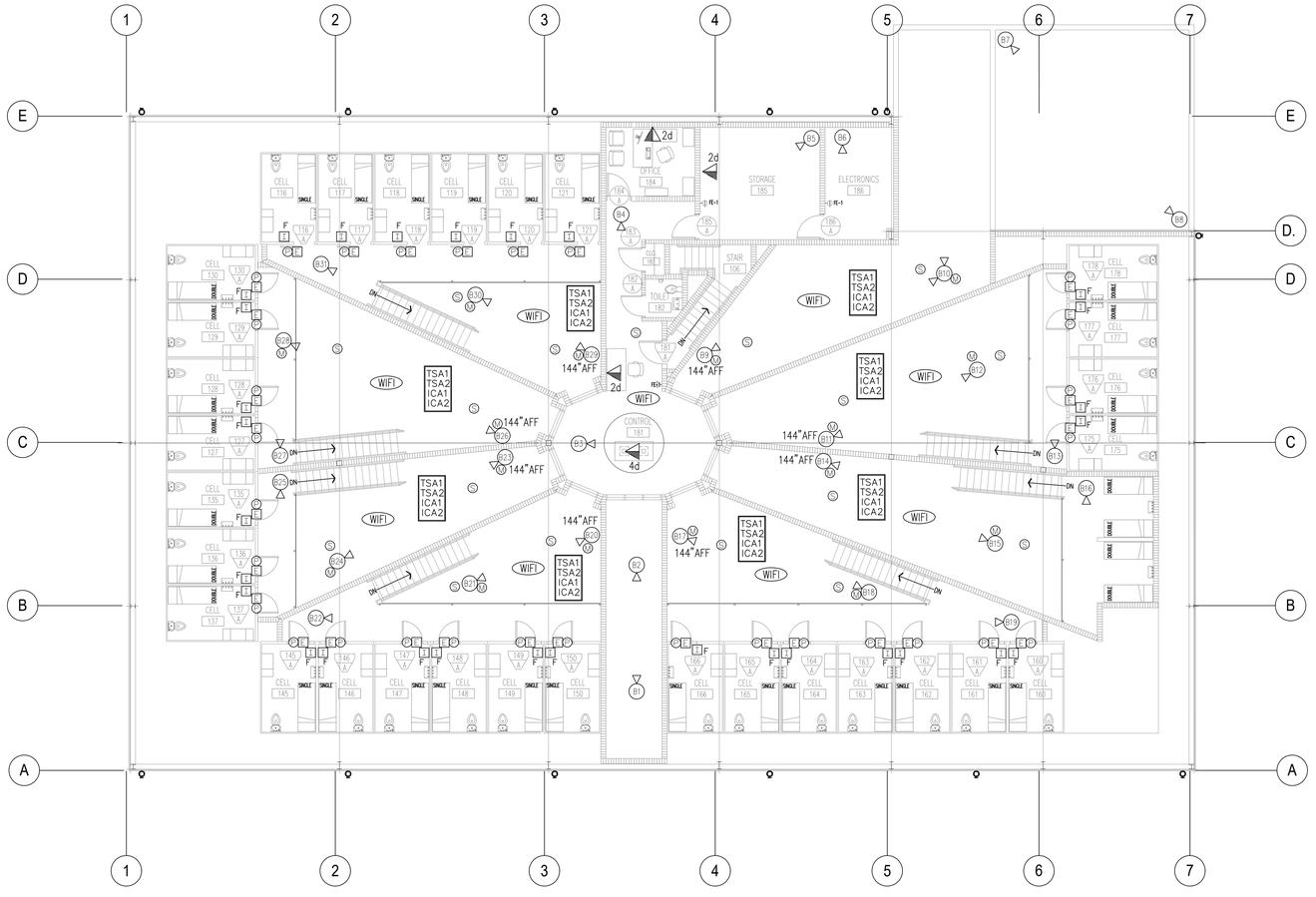
1. ALL ELECTRIC LOCKS IN THIS AREA SHALL BE CONTROLLED BY THE TOUCHSCREEN UNITS IN HOUSING CONTROL & CENTRAL CONTROL. HOMERUN EACH LOCK IN 3/4" CONDUIT MINIMUM. ROUTE ALL LOCKS TO THE RESPECTIVE SECURITY EQUIPMENT ROOM LOCATED ADJACENT TO HOUSING CONTROL ROOM..
2. ALL CAMERAS IN THIS AREA SHALL BE CONTROLLED BY THE HEADEND EQUIPMENT IN THE MAIN SECURITY EQUIPMENT ROOM IN MASTER CONTROL. HOMERUN EACH CAMERA IN 3/4" CONDUIT MINIMUM. ROUTE TO THE NEAREST SECURITY EQUIPMENT ROOM.
3. ALL INTERCOMS AND SPEAKERS IN THIS AREA SHALL BE CONTROLLED BY THE INTERCOM MASTER IN HOUSING CONTROL AND MASTER CONTROL UNLESS OTHERWISE NOTED. HOMERUN EACH LOCK IN 3/4" CONDUIT MINIMUM. ROUTE ALL INTERCOMS TO THE NEAREST SECURITY EQUIPMENT ROOM.
4. HOME RUN WIRING FOR ALL SLIDERS IN THE OVERHEAD SLIDER HOUSING, THEN FROM THE OVERHEAD HOUSING IN (2)–2" CONDUITS TO THE SECURITY EQUIPMENT ROOM.
5. ALL CONTROLS SHOWN HERE SHALL BE DUPLICATED AT MASTER CONTROL. TYPICAL.
6. EACH DAYROOM SPEAKERS SHALL BE A SEPARATE ZONE. CORRIDORS SHALL ALSO BE A SEPARATE ZONE. TYPICAL ALL HOUSING UNITS. ROUTE ALL SPEAKERS TO THE NEAREST SECURITY EQUIPMENT ROOM.
7. PROVIDE CONNECTION AND CONTACTORS TO ALL WATER CONTROL VALVES, HOT, COLD AND FLUSH. COORDINATE EXACT LOCATIONS WITH THE PLUMBING DRAWINGS.
8. PROVIDE CONNECTION AND CONTACTORS TO ALL LIGHTING CONTACTORS FOR LIGHTING CONTROL. COORDINATE EXACT LOCATIONS WITH THE ELECTRICAL DRAWINGS.
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HOME RUN LEGEND

TSB1	INDICATES THAT ALL LOCKS IN THIS DAYROOM/AREA ARE CONTROLLED BY TOUCHSCREEN PANEL 'TSB1' & 'TSB2'.
TSB2	INDICATES THAT ALL INTERCOMS IN THIS DAYROOM/AREA ARE CONTROLLED BY INTERCOM STATION 'ICB1' & 'ICB2'.
ICB1	ALL INTERCOMS, LOCKS & CAMERAS SHALL BE ROUTED IN SEPARATE CONDUITS UNLESS OTHERWISE NOTED..
ICB2	ALL HOMERUNS SHALL BE IN CONDUIT, NO OPEN WIRING ALLOWED.



2 ES22 TYPICAL CONDUITS IN SLAB ROUTING
SCALE: 1/4" = 1'-0"



1 ES22 TYPICAL CONDUITS IN SLAB ROUTING
SCALE: 1/4" = 1'-0"

STUDIO8 design
architecture
2722 North Oak Street
Valdosta, Georgia 31602
P.(229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

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ELECTRONIC SECURITY SYSTEMS, ELECTRICAL, LOW VOLTAGE & SECURITY HARDWARE
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Buford, Georgia 30519
ttanner@tannerhoskins.com
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NEWBERRY, SOUTH CAROLINA

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER 30864 KEVIN D. HOSKINS

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REV.		REV.	

HOUSING UNIT SECOND LEVEL SECURITY

ES2.2

GENERAL NOTES: TYPICAL FOR ALL SECURITY EQUIPMENT ROOMS

G-1. MINIMUM CEILING HEIGHT: SHALL BE AT LEAST 8 FT ABOVE FINISHED FLOOR.

G-2. DOOR: FULLY OPENING LOCKABLE DOOR AT LEAST 3 FT WIDE AND 6.7 FT TALL. DOOR HINGED TO SWING OUT OF ROOM IS PREFERRED. AVOID USE OF SILLS TO EASE EQUIPMENT INSTALLATION AND REMOVAL. DOOR SHOULD BE REMOVABLE.

G-3. POWER: EACH PRIME EQUIPMENT POWER OUTLET SHALL BE SUPPLIED BY A DEDICATED 110VAC, 20A CIRCUIT USING A QUAD NEMA 5-20R RECEPTACLE. OTHER OUTLETS SHALL BE QUAD NEMA 5-15R RECEPTACLES. OUTLETS LOCATED 16 INCHES AFF, TYPICAL.

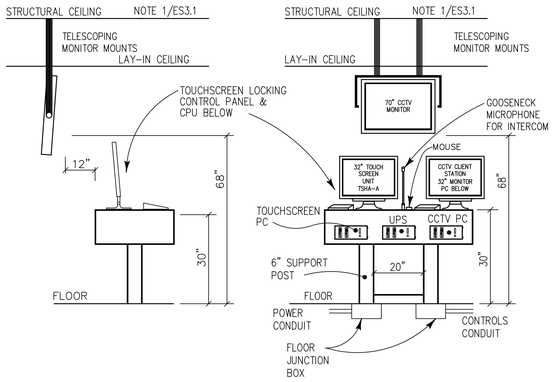
G-4. GROUNDING: INSTALL TELECOMMUNICATION GROUNDING BUSBAR (CHATSWORTH MODEL 40153 OR EQUIVALENT) IN LOCATION DEPICTED IN DRAWING. COOPER B-LINE SBTGB.

G-5. LIGHTING: PROVIDE SWITCHED LIGHTING TO ILLUMINATE EQUIPMENT AND WORK AREA.

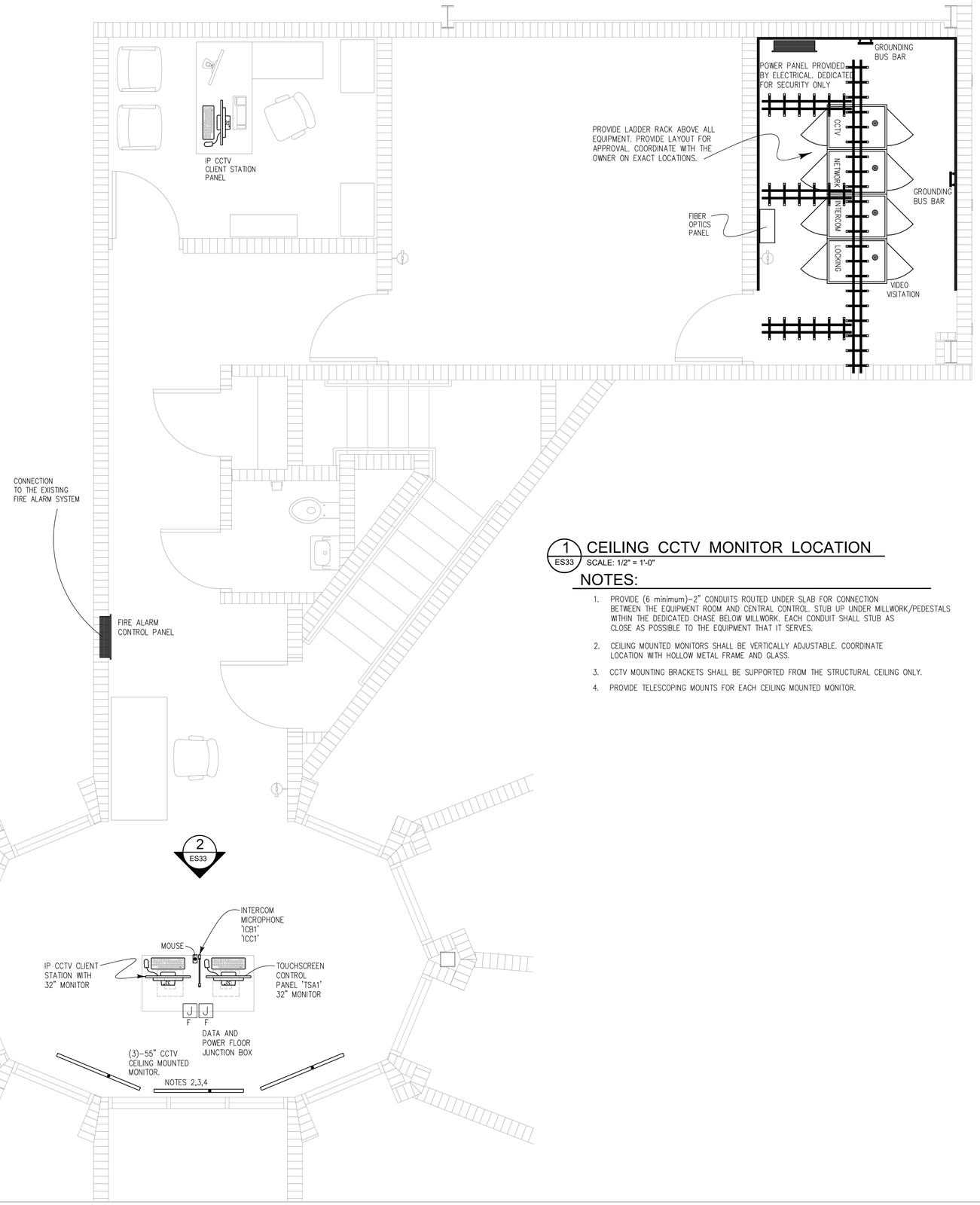
G-6. FLOORING: AVOID USE OF CARPET OR OTHER MATERIALS THAT COULD CAUSE BUILDUP OF STATIC ELECTRICITY.

G-7. WALLS: INSTALL 3/4 INCH PLYWOOD BACKBOARDS ON ALL WALLS. BOTTOM EDGE SHALL BE APPROXIMATELY 36 INCHES ABOVE FINISHED FLOOR WITH TOP EDGE APPROXIMATELY 84 INCHES ABOVE FINISHED FLOOR. SEAL PLYWOOD WITH FIREPROOF PAINT (WHITE).

G-8. ENVIRONMENTAL CONTROL: ENVIRONMENTAL CONTROLS SHALL BE SUFFICIENT TO MAINTAIN ROOM TEMPERATURE IN THE RANGE OF 64°F TO 75°F. INSTALL, AS A MINIMUM, A DEDICATED 1.5 TON CAPACITY COOLING UNIT. HVAC POWER SOURCE SHALL BE SEPARATE FROM OUTLETS SHOWN ON THIS SHEET.



3 ES32 CEILING CCTV MONITOR LOCATION
SCALE: 1/2" = 1'-0"



1 ES33 CEILING CCTV MONITOR LOCATION
SCALE: 1/2" = 1'-0"

NOTES:

1. PROVIDE (6 minimum)-2" CONDUITS ROUTED UNDER SLAB FOR CONNECTION BETWEEN THE EQUIPMENT ROOM AND CENTRAL CONTROL. STUB UP UNDER MILLWORK/PEDESTALS WITHIN THE DEDICATED CHASE BELOW MILLWORK. EACH CONDUIT SHALL STUB AS CLOSE AS POSSIBLE TO THE EQUIPMENT THAT IT SERVES.
2. CEILING MOUNTED MONITORS SHALL BE VERTICALLY ADJUSTABLE. COORDINATE LOCATION WITH HOLLOW METAL FRAME AND GLASS.
3. CCTV MOUNTING BRACKETS SHALL BE SUPPORTED FROM THE STRUCTURAL CEILING ONLY.
4. PROVIDE TELESCOPING MOUNTS FOR EACH CEILING MOUNTED MONITOR.

SEC ROOM NOTES: TYPICAL FOR ALL SECURITY EQUIPMENT ROOMS

A. PROVIDE 3\4" 4'x8' FIRE RESISTANT PLYWOOD ON ALL WALLS OF EQUIPMENT ROOM. PLYWOOD SHALL BE PAINTED WITH TWO COATS OF FIRE RESISTANT PRIMER AND TWO COATS OF FIRE RESISTANT PAINT. TYPICAL ALL ROOMS.

B. PROVIDE CONDUIT SLEEVES FOR ALL CONDUITS BETWEEN FLOORS.

C. COORDINATE LOCATION OF CONDUITS WITH THE STRUCTURAL & ARCHITECTURAL DRAWINGS. RE-LOCATE IF NECESSARY. PROVIDE DRAWING WITH FINAL LAYOUT FOR APPROVAL AND FINAL RECORD.

D. SEE THE SITE PLAN FOR INCOMING CONDUITS. COORDINATE EXACT LOCATION OF THE CONDUITS STUB UPS AT THE PROPERTY LINE WITH THE RESPECTIVE UTILITY COMPANIES.

E. TELEVISION BACKBOARD HEADEND EQUIPMENT. COORDINATE WITH THE LOCAL TELEVISION UTILITY FOR EXACT REQUIREMENTS.

F. CONTRACTOR SHALL COORDINATE WITH STRUCTURAL DRAWINGS TO VERIFY THAT CORE DRILLING DOES NOT COMPROMISE STRUCTURAL INTEGRITY.

G. ALL 2-POST AND 4-POST RACKS SHALL BE 84" HIGH MINIMUM. AND SHALL HAVE SIDE WIRE MANAGEMENT.

2 ES33

STUDIO8 design
architecture
2722 North Oak Street
Valdosta, Georgia 31602
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info@s8darchitects.com
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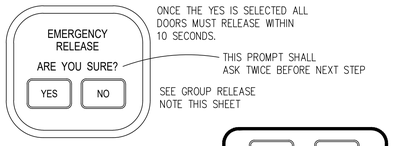


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CENTRAL CONTROL ROOM, DETAILS & SECURITY EQ. ROOM

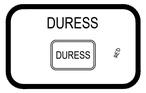
ES3.1



ONCE THE YES IS SELECTED ALL DOORS MUST RELEASE WITHIN 10 SECONDS.

THIS PROMPT SHALL ASK TWICE BEFORE NEXT STEP

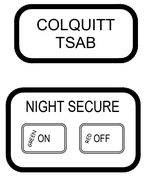
SEE GROUP RELEASE NOTE THIS SHEET





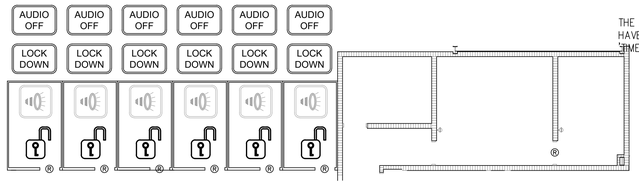


SEE GROUP RELEASE NOTE THIS SHEET

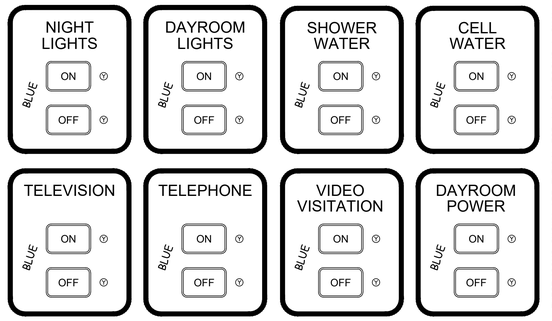


PROVIDE ICON PER CELL THAT ALLOWS THE OPERATOR TO INPUT INMATES NAME AND STATUS AND ANY OTHER INFO REQUIRED BY GDOC. TYPICAL ALL CELLS.

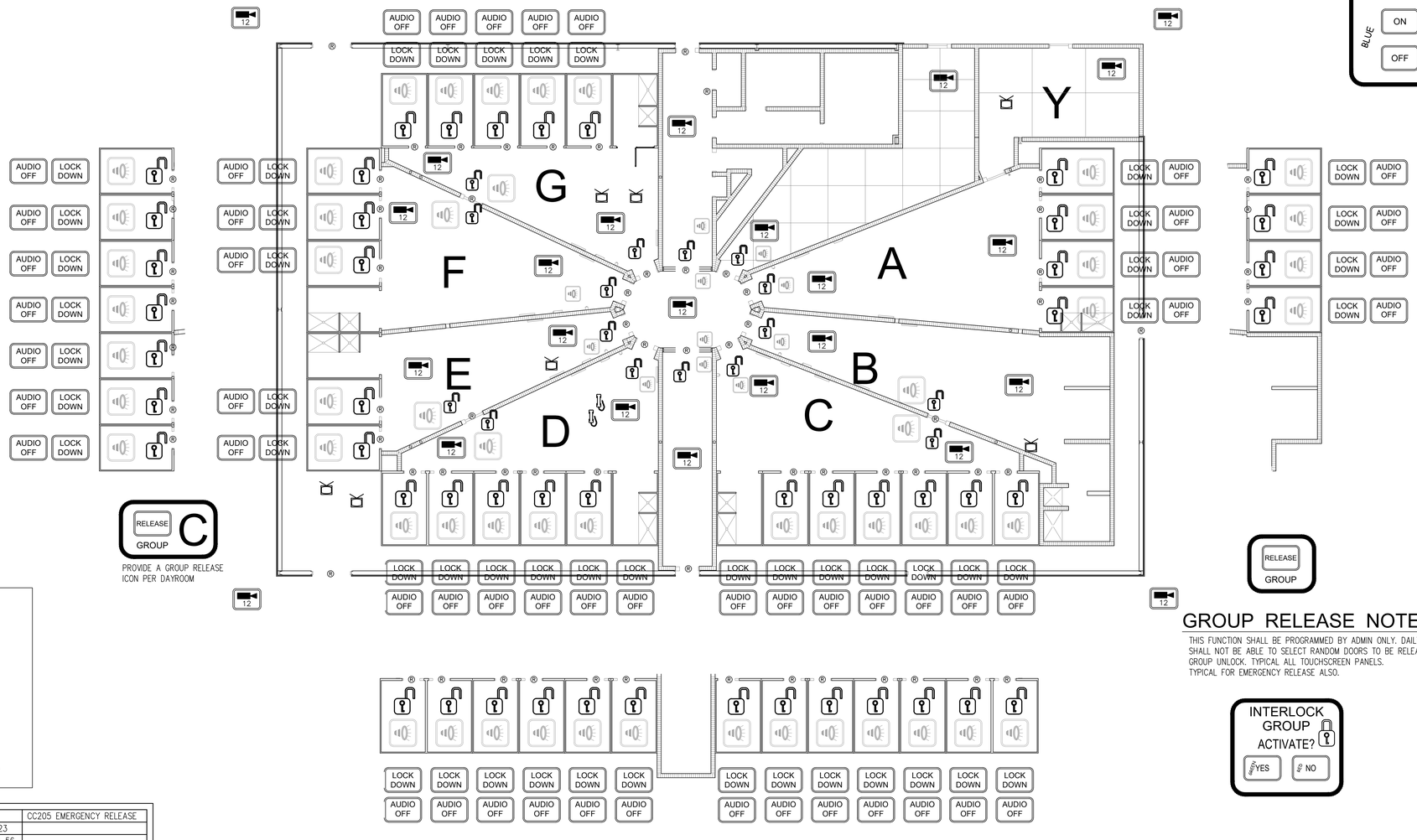
NAME	MEDICAL STATUS



THE AUDIO/CALL-IN OFF SHALL HAVE AN ADJUSTABLE "TIME OUT" FEATURE (TYPICAL)



THESE ICONS SHOWN ARE TYPICAL FOR ALL DAYROOMS & SHALL APPEAR UPON SELECTION OF ANY DAYROOM. TYPICAL



PROVIDE A GROUP RELEASE ICON PER DAYROOM

GROUP RELEASE NOTE

THIS FUNCTION SHALL BE PROGRAMMED BY ADMIN ONLY. DAILY OPERATORS SHALL NOT BE ABLE TO SELECT RANDOM DOORS TO BE RELEASEED BY GROUP UNLOCK. TYPICAL ALL TOUCHSCREEN PANELS.
TYPICAL FOR EMERGENCY RELEASE ALSO.

GRAPHIC MAP

ALARM SELECT	ALARM	OCT 07 2012	CC205 EMERGENCY RELEASE
ALARM SILENCE	TANNER	UNLOCKED DOOR 123	
ALARM RESET	HOSKINS	ACTIVATED CAMERA 56	
	USER		

ALARM QUE

ANY ALARM REGISTERED ON THE ALARM QUE SHALL BE ACKNOWLEDGE AND RESET IN RANDOM ORDER, REGARDLESS OF WHAT ORDER THEY WERE RECEIVED. TYPICAL ALL TOUCHSCREEN PANELS.

1 ES4.1 HOUSING LOCKING CONTROL PANEL GRAPHIC

SCALE: FULL SIZE

NOTES:

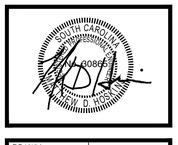
1. THE DRAWING SHOWN IS A TYPICAL CONTROL GRAPHIC FOR A TOUCHSCREEN LOCKING SYSTEM. SEE SPECIFICATIONS FOR COMPLETE REQUIREMENTS OF TOUCHSCREEN GRAPHIC, PUSHBUTTONS, CONTROL ICONS, ETC. CONTRACTOR SHALL SUBMIT ALL CONTROL GRAPHICS FOR REVIEW AND APPROVAL AS PART OF THE SHOP DRAWING SUBMITTAL.

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architecture
2722 North Oak Street
Valdosta, Georgia 31602
P.(229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

TANNER HOSKINS ENGINEERING CONSULTANTS, LLC
ELECTRONIC SECURITY SYSTEMS, ELECTRICAL, LOW VOLTAGE & SECURITY HARDWARE
3447 Lake Seminole Place
Buford, Georgia 30519
ftanner@tannerhoskins.com
678-656-8832 mobile
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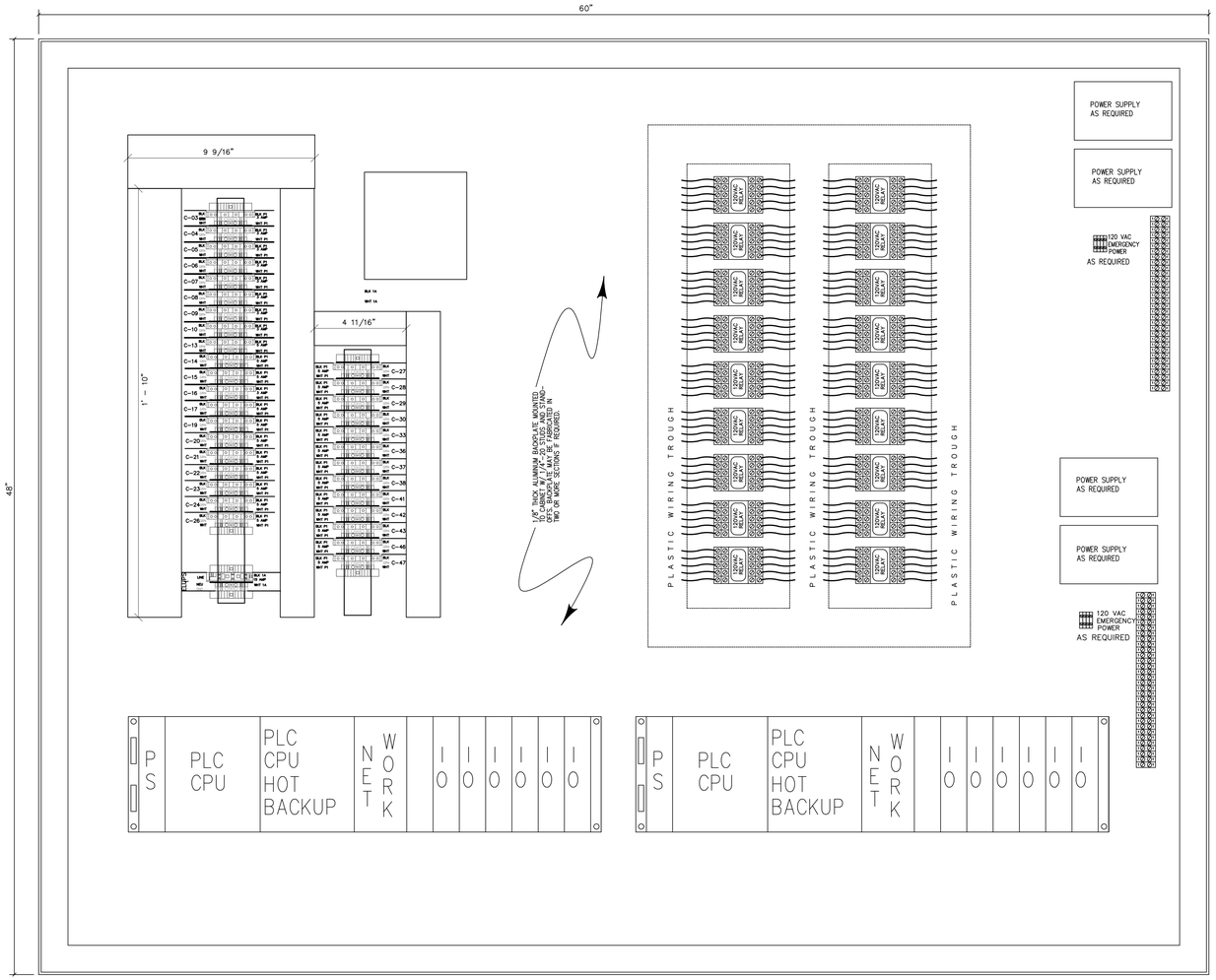


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TYPICAL TOUCHSCREEN GRAPHIC PANEL SECURITY

ES4.1

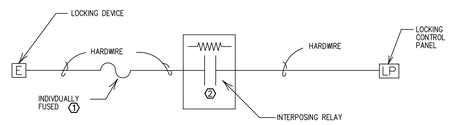


1 TYPICAL LOCKING CONTROL RELAY CABINET

ES4.2 SCALE: 1" = 3"

NOTES:

1. MOUNT CABINET IN THE SECURITY EQUIPMENT ROOM AS REQUIRED..
2. ALL WIRING SHALL HAVE LABELS AT BOTH TERMINATING ENDS, IN THIS CABINET & IN THE FIELD.
3. MAGNECRAFT CLASS 76 COIL 24VDC, 10 AMP CONTACTS WITH HOLD DOWN CLIP, SPST. OR EQUAL.
4. THIS DRAWING IS A GENERAL LAYOUT OF THE LOCKING CONTROL SYSTEM HEADEND. THE CONTRACTOR SHOULD USE THIS AS A GUIDELINE WHEN BUILDING THE ENTIRE LOCKING CONTROL SYSTEM. THE CONTRACTOR SHALL PROVIDE A DETAILED LAYOUT OF THE LOCKING CABINET AND WIRING DIAGRAMS WITH SHOP DRAWINGS.

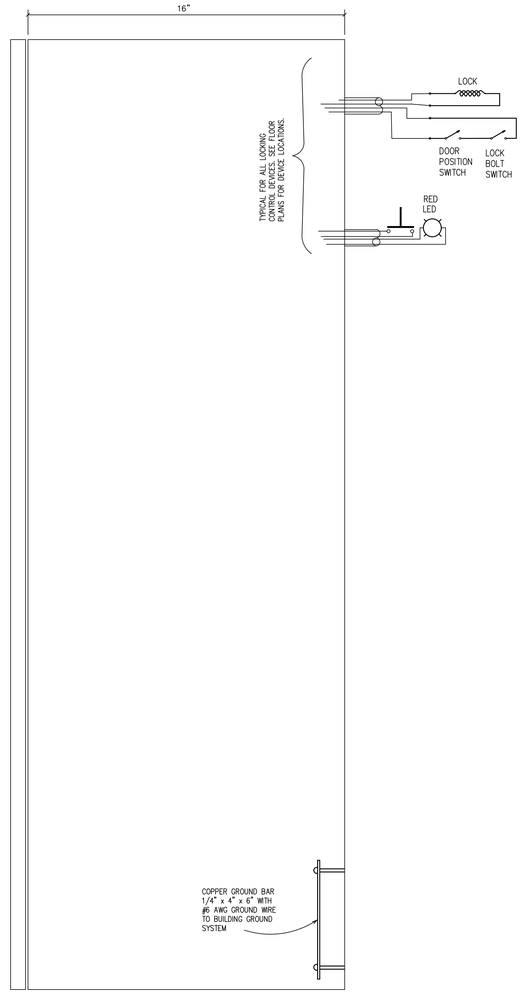


2 TYPICAL LOCKING SCHEMATIC

ES4.3 SCALE: NONE

KEYNOTES:

1. EACH LOCKING CIRCUIT SHALL BE INDIVIDUALLY FUSED. SIZE FUSE IN ACCORDANCE WITH LOCK MANUFACTURER RECOMMENDATIONS.
2. EACH LOCKING CIRCUIT SHALL HAVE AN INTERPOSING RELAY.



NOTES: (TYPICAL ALL LOCKING CABINETS)

1. ALL WIRING SHALL BE GROUPED AND PLACED IN PLASTIC WIRING DUCTS AND ALL PLASTIC WIRING DUCTS SHALL HAVE TYPED LABELS IDENTIFING THE WIRING SYSTEM, VOLTAGE AND CHARACTERISTICS.
2. SEE SPECIFICATIONS FOR SIZE, TYPE AND RATING OF CONDUCTORS.
3. A SYSTEM OF COLOR CODING SHALL BE ADOPTED BY THE CONTRACTOR AND SHALL BE CONSISTENT THROUGHOUT.
4. SPLICING OF WIRING IS PROHIBITED IN THE RELAY CABINET.
5. ALL LOCKING CONTROL AND STATUS CIRCUITS SHALL BE INDIVIDUALLY FUSED.
6. ALL RELAYS SHALL BE LABELLED WITH A TYPED LABEL, SHOWING DOOR NUMBER.
7. ALL LOCKING CIRCUITS SHALL HAVE A GREEN GROUND WIRE.
8. SEPARATE THE LOCK RELAYS FROM THE INTERLOCKING RELAYS.
9. USE 24 VDC FOR DOOR STATUS, 12 VDC IS NOT ACCEPTABLE.
10. RELAYS AND TERMINAL BLOCKS SHALL FIT IN DIN RAILS.
11. WHERE CIRCUIT REQUIRE FUSES, FUSE HOLDER SHALL BE INTEGRAL OF TERMINAL BLOCK.
12. ALL CONDUIT AND JUNCTION BOXES SHALL BE GROUNDED.
13. ALL WIRING, RELAYS, FUSES, POWER SUPPLIES, COMPONENTS, ETC. SHALL BE LABELED.

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architecture
2722 North Oak Street
Valdosta, Georgia 31602
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info@s8darchitects.com
www.s8darchitects.com

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ttanner@tannerhoskins.com
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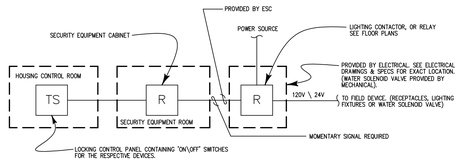
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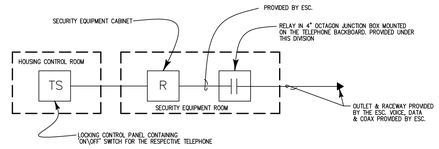
TYPICAL SECURITY CABINET LAYOUT

ES4.2



3 ES51 TYPICAL DEVICE CONTROL ONE LINE DIAGRAM

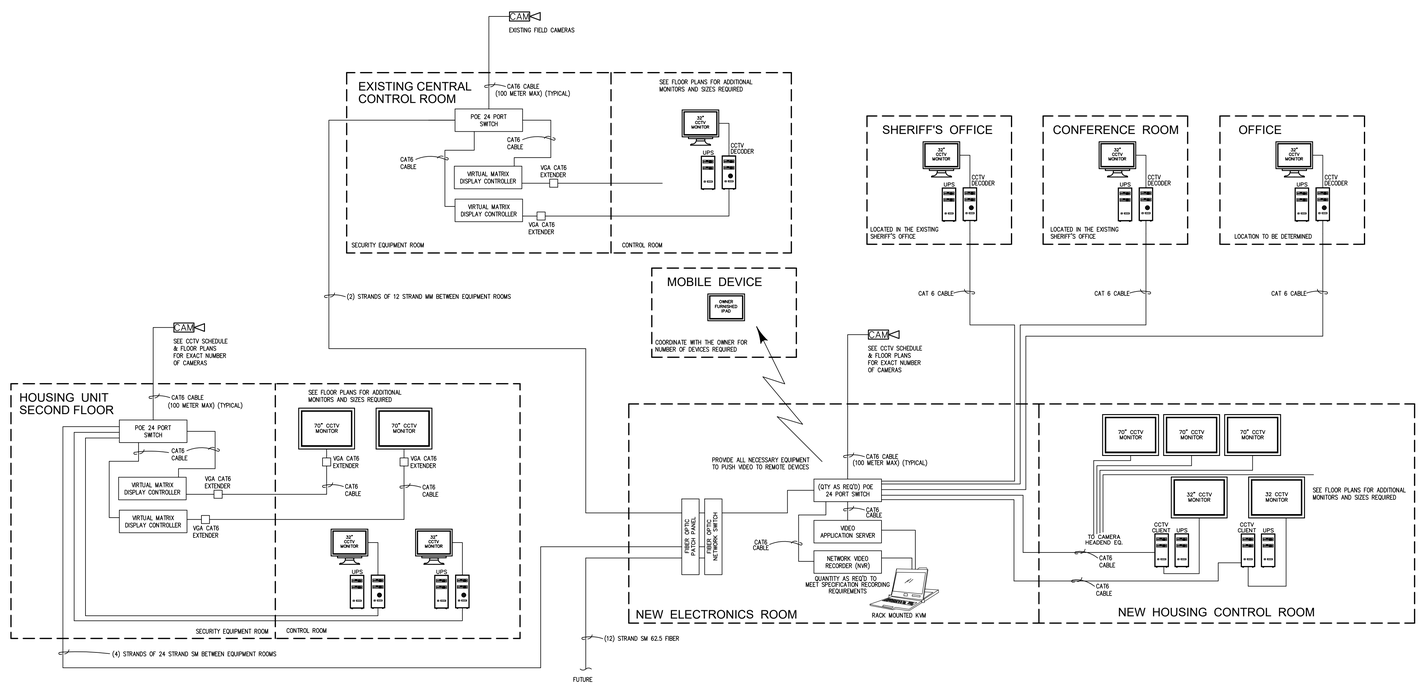
SCALE: NONE



2 ES51 TYPICAL DAYROOM DEVICE CONTROL ONE LINE DIAGRAM

SCALE: NONE

TYPICAL FOR TELEPHONE, TELEVISION, VIDEO VISITATION, COMMISARY KIOSK, ETC.



1 ES51 CCTV ONE LINE DIAGRAM

NO SCALE

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architecture
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Valdosta, Georgia 31602
P.(229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

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CCTV SYSTEM
ONE LINE DIAGRAM
SECURITY

ES5.1

CCTV CAMERA SCHEDULE - SITE PLAN

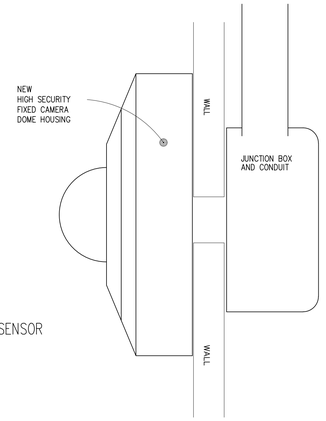
CAMERA NUMBER	CAMERA TYPE		HOUSING TYPE		MOUNTING DETAIL	MOUNTING LOCATION	GENERAL REMARKS	CAMERA NUMBER
S1	TYPE 2		EXTERIOR VEHICLE GATE		ES5.2	POLE	VEHICLE GATE ENTRY	S1
S2	TYPE 9		EXTERIOR HOUSING		ES5.2	WALL	NEW HOUSING	S2
S3	TYPE 9		EXTERIOR HOUSING		ES5.2	WALL	NEW HOUSING	S3
S4	TYPE 9		EXTERIOR HOUSING		ES5.2	WALL	NEW HOUSING	S4
S5	TYPE 9		EXTERIOR HOUSING		ES5.2	WALL	NEW HOUSING	S5
S6	TYPE 2		EXTERIOR HOUSING		ES5.2	CEILING	COVERED WALKWAY	S6
S7	TYPE 2		EXTERIOR HOUSING		ES5.2	CEILING	COVERED WALKWAY	S7
S8	TYPE 6		EXTERIOR HOUSING		ES5.2	CEILING	COVERED WALKWAY	S8
A1	TYPE 3		HIGH SECURITY		ES5.2	CEILING	LOBBY 108	A1
A2	TYPE 3		HIGH SECURITY		ES5.2	CEILING	LOBBY 108	A2
A3	TYPE 3		HIGH SECURITY		ES5.2	CEILING	CORRIDOR 103	A3
A4	TYPE 3		HIGH SECURITY		ES5.2	WALL	HOUSING ENTRY	A4
A5	TYPE 3		HIGH SECURITY		ES5.2	WALL	HOUSING ENTRY	A5

CCTV CAMERA SCHEDULE - INTAKE & HOUSING UNIT

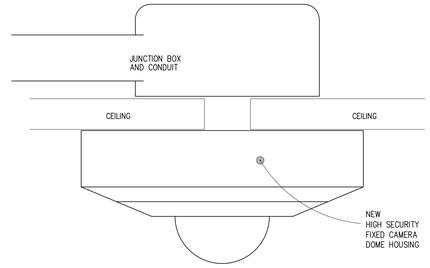
CAMERA NUMBER	CAMERA TYPE		GENERAL REMARKS		MOUNTING DETAIL	MOUNTING LOCATION	GENERAL LOCATION	CAMERA NUMBER
B1	TYPE 3		HIGH SECURITY		ES5.2	CEILING	HOUSING CORRIDOR	B1
B2	TYPE 3		HIGH SECURITY		ES5.2	CEILING	HOUSING CORRIDOR	B2
B3	TYPE 3		HIGH SECURITY		ES5.2	CEILING	CONTROL ROOM 181	B3
B4	TYPE 3		HIGH SECURITY		ES5.2	CEILING	CONTROL ROOM 181	B4
B5	TYPE 3		HIGH SECURITY		ES5.2	CEILING	STORAGE 185	B5
B6	TYPE 3		HIGH SECURITY		ES5.2	CEILING	ELECTRONICS 186	B6
B7	TYPE 3		HIGH SECURITY		ES5.2	CEILING	EXERCISE YARD	B7
B8	TYPE 3		HIGH SECURITY		ES5.2	CEILING	EXERCISE YARD	B8
B9	TYPE 3		HIGH SECURITY		ES5.2	WALL @ 144" AFF	DAYROOM	B9
B10	TYPE 3		HIGH SECURITY		ES5.2	CEILING	DAYROOM	B10
B11	TYPE 3		HIGH SECURITY		ES5.2	WALL @ 144" AFF	DAYROOM	B11
B12	TYPE 3		HIGH SECURITY		ES5.2	CEILING	DAYROOM	B12
B13	TYPE 3		HIGH SECURITY		ES5.2	WALL	DAYROOM MEZZANINE	B13
B14	TYPE 3		HIGH SECURITY		ES5.2	WALL @ 144" AFF	DAYROOM	B14
B15	TYPE 3		HIGH SECURITY		ES5.2	CEILING	DAYROOM	B15
B16	TYPE 3		HIGH SECURITY		ES5.2	WALL	DAYROOM MEZZANINE	B16
B17	TYPE 3		HIGH SECURITY		ES5.2	WALL @ 144" AFF	DAYROOM	B17
B18	TYPE 3		HIGH SECURITY		ES5.2	CEILING	DAYROOM	B18
B19	TYPE 3		HIGH SECURITY		ES5.2	WALL	DAYROOM MEZZANINE	B19
B20	TYPE 3		HIGH SECURITY		ES5.2	WALL @ 144" AFF	DAYROOM	B20
B21	TYPE 3		HIGH SECURITY		ES5.2	CEILING	DAYROOM	B21
B22	TYPE 3		HIGH SECURITY		ES5.2	WALL	DAYROOM MEZZANINE	B22
B23	TYPE 3		HIGH SECURITY		ES5.2	WALL @ 144" AFF	DAYROOM	B23
B24	TYPE 3		HIGH SECURITY		ES5.2	CEILING	DAYROOM	B24
B25	TYPE 3		HIGH SECURITY		ES5.2	WALL	DAYROOM MEZZANINE	B25
B26	TYPE 3		HIGH SECURITY		ES5.2	WALL @ 144" AFF	DAYROOM	B26
B27	TYPE 3		HIGH SECURITY		ES5.2	WALL	DAYROOM MEZZANINE	B27
B28	TYPE 3		HIGH SECURITY		ES5.2	CEILING	DAYROOM	B28
B29	TYPE 3		HIGH SECURITY		ES5.2	WALL @ 144" AFF	DAYROOM	B29
B30	TYPE 3		HIGH SECURITY		ES5.2	CEILING	DAYROOM	B30
B31	TYPE 3		HIGH SECURITY		ES5.2	WALL	DAYROOM MEZZANINE	B31
C1	TYPE 4		HIGH SECURITY		5/ES5.2	CORNER	INMATE CELL	C1
C2	TYPE 4		HIGH SECURITY		5/ES5.2	CORNER	INMATE CELL	C2
C3	TYPE 4		HIGH SECURITY		5/ES5.2	CORNER	INMATE CELL	C3
C4	TYPE 4		HIGH SECURITY		5/ES5.2	CORNER	INMATE CELL	C4
C5	TYPE 4		HIGH SECURITY		5/ES5.2	CORNER	INMATE CELL	C5
C6	TYPE 4		HIGH SECURITY		5/ES5.2	CORNER	INMATE CELL	C6
C7	TYPE 4		HIGH SECURITY		5/ES5.2	CORNER	EXAM 104	C7
C8	TYPE 4		HIGH SECURITY		5/ES5.2	CORNER	PROGRAMS 105	C8

QUICK TYPE REFERENCE

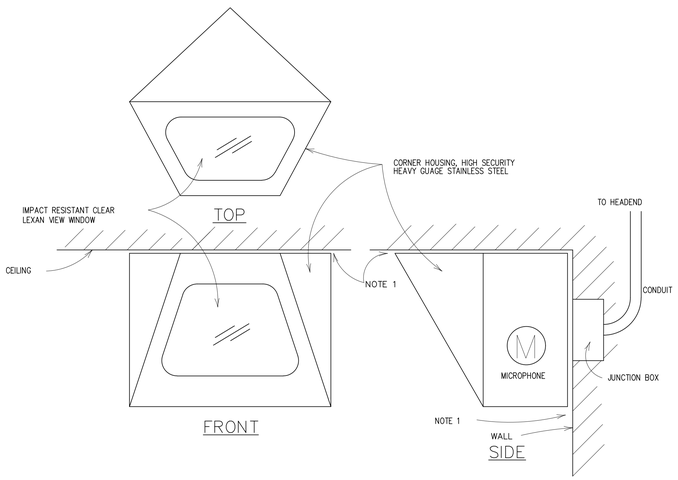
TYPE 2 – OUTDOOR MINIDOME SURFACE 2MP
TYPE 3 – OUTDOOR MINIDOME 5MP
TYPE 4 – CORNER MOUNT FOR CELLS – 3MP
TYPE 5 – FISHEYE – 12MP – SEMI LARGE ROOMS
TYPE 6 – CORRIDOR – 2MP 2 LENSES
TYPE 7 – INTERIOR – 4X LENSES 5MP(20MP) MULTI-SENSOR
TYPE 8 – EXTERIOR 8MP(32MP) MULT-SENSOR
TYPE 9 – EXTERIOR 20MP MULTI-SENSOR
TYPE 10 – EXTERIOR 2MP PTZ



4 ES52 INTERIOR WALL MOUNTED CAMERA
SCALE: FULL SIZE



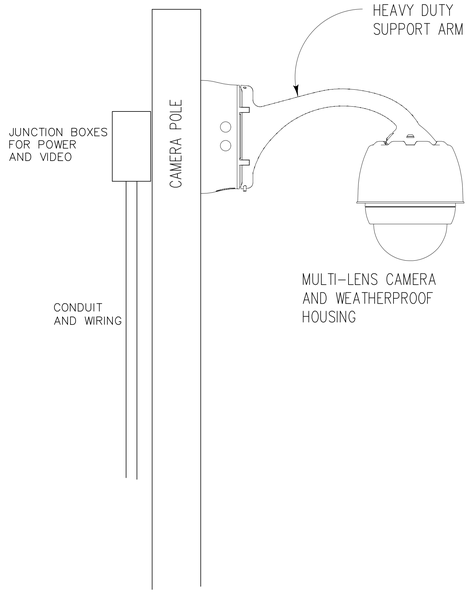
3 ES52 INTERIOR CEILING MOUNTED CAMERA
SCALE: FULL SIZE



5 ES5.2 CORNER/CEILING MOUNT HIGH SECURITY HOUSING
ONE QUATER SIZE

NOTES:

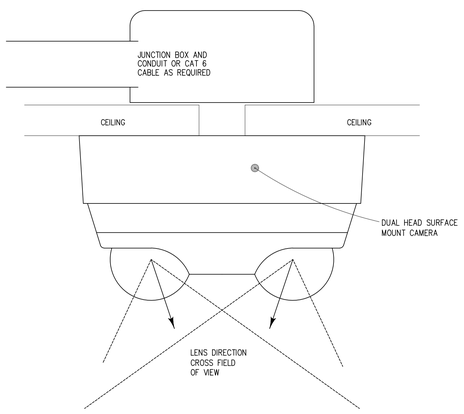
1. HOUSING SHALL MOUNT FLUSH AGAINST CEILING AND WALL IN THE CORNER. PROVIDE SECURITY CAULKING ALL EDGES.
2. PROVIDE MICROPHONE IN ALL CORNER MOUNT HOUSING UNITS. WHERE APPLICABLE.



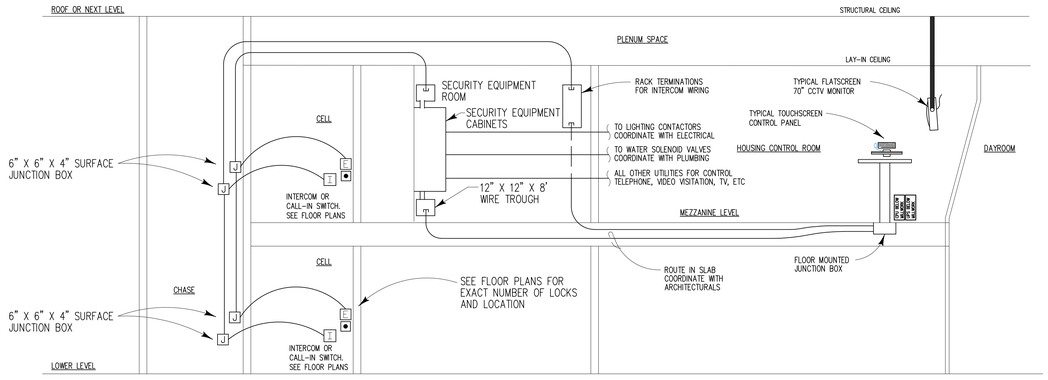
2 ES52 POLE OR WALL MOUNTED EXTERIOR CAMERA
SCALE: NONE

NOTES:

1. ALL NEW CAMERAS SHALL BE WIRED WITH CAT6 CABLE. PROVIDE WIRE, CONDUIT, J-BOXES, STRAPS, ETC.
2. ALL MULTI-SENSOR CAMERAS SHALL HAVE A BOTTOM LENS TO CAPTURE THE FIELD OF VIEW DIRECTLY BELOW THE CAMERA
3. ALL CAMERAS THAT VIEW INTO ROOMS WITH TOILETS/SHOWERS, ETC. SHALL MASK OFF THE TOILET/SHOWER FIELD OF VIEW.
4. PROVIDE WITH SHOP DRAWINGS EXACT FIELD OF VIEW FOR EACH CAMERA.
5. ALL CAMERAS SHALL HAVE BUILT-IN IR ILLUMINATION.



6 ES52 INTERIOR DUAL LENS CORRIDOR CAMERA
NOT TO SCALE



1 ES5.2 TYPICAL HOMERUN ONE LINE DIAGRAM
SCALE: NONE

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architecture
2722 North Oak Street
Valdosta, Georgia 31602
P.(229) 244-1188
info@s8darchitects.com
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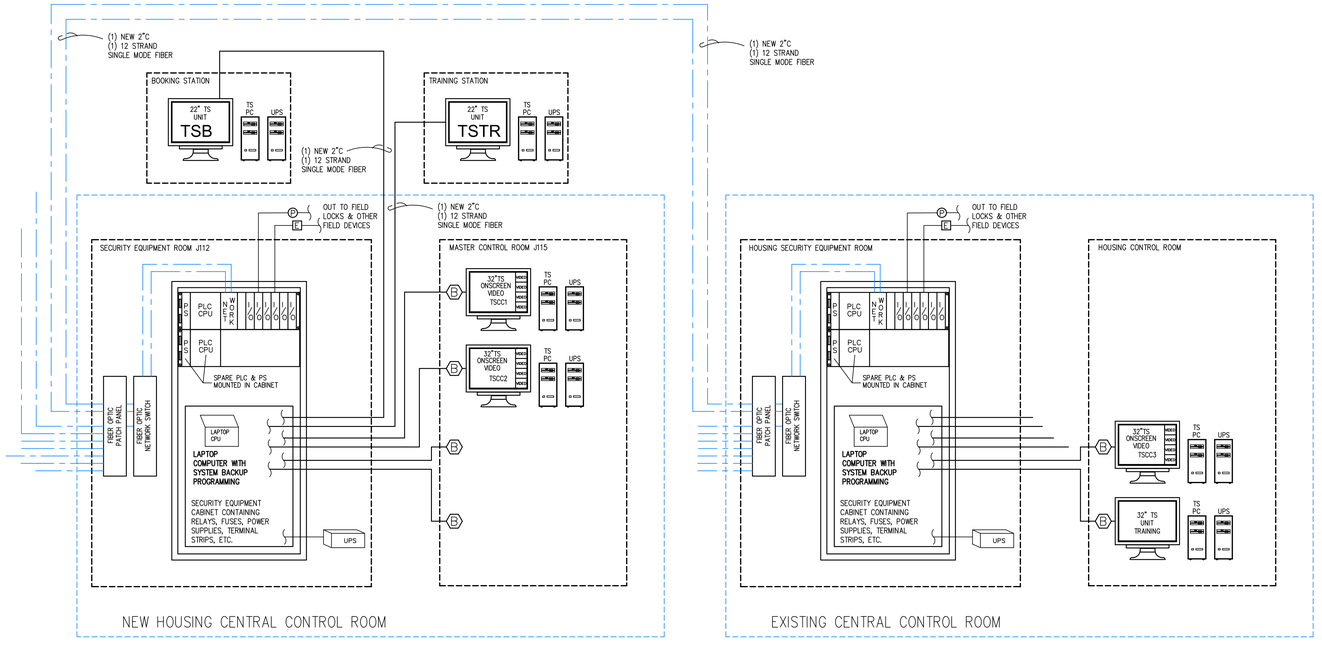
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REV.		REV.	

CCTV
CAMERA DETAILS
SECURITY

ES5.2



1 ES61 TOUCHSCREEN LOCKING CONTROL ONE LINE DIAGRAM

NO SCALE

KEYNOTES:

E CONNECTION BETWEEN SECURITY EQUIPMENT ROOM & TOUCHSCREEN UNITS.

GENERAL NOTES:

1. TOUCHSCREEN UNITS ARE REQUIRED AT ALL CONTROL ROOMS.
2. TS=TOUCHSCREEN
3. FO=FIBER OPTICS

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architecture
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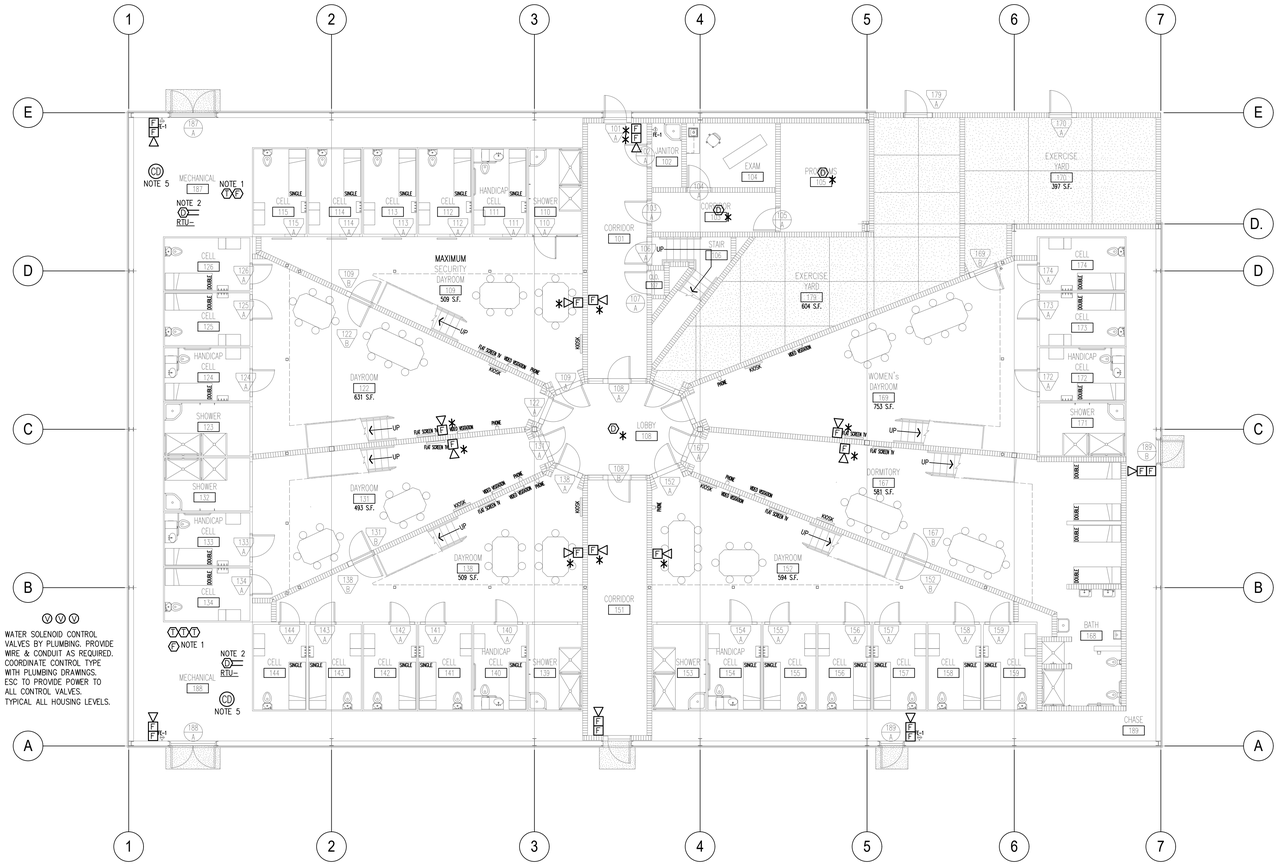
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TOUCHSCREEN LOCKING ONE LINE DIAGRAM - SECURITY

ES6.1

NOTES:

1. COORDINATE EXACT NUMBER OF FLOW AND TAMPER SWITCHES WITH THE SPRINKLER DRAWINGS. CONNECT ALL FLOWS AND TAMPER SWITCHES TO THE NEAREST FIRE ALARM PANEL.
2. COORDINATE EXACT NUMBER OF DUCT SMOKE DETECTORS WITH THE MECHANICAL DRAWINGS. PROVIDE CONNECTION FROM EACH DUCT DETECTOR TO THE RESPECTIVE HVAC UNIT AND FIRE ALARM CONTROL PANEL. SEE MECHANICAL DRAWINGS AND SPECIFICATIONS FOR SEQUENCE OF OPERATION.
3. ROUTE ALL FIRE ALARM DEVICES TO THE HOUSING FIRE ALARM PANEL LOCATED IN THE HOUSING CONTROL ROOM CORRIDOR.
4. ENTIRE FIRE ALARM SYSTEM BACKBONE SHALL BE FIBER OPTICS. SEE ONE LINE DIAGRAM.
5. WHERE SMOKE DETECTORS ARE REQUIRED IN THE SAME ROOM WITH GAS HEATING AND GAS WATER HEATERS, PROVIDE ADDITIONAL CARBON MONOXIDE TYPE DETECTORS. TYPICAL ALL AREAS OF THE FACILITY. SEE PLUMBING AND MECHANICAL DRAWINGS.
6. SMOKE EXHAUST DAMPERS. COORDINATE WITH MECHANICAL DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR DAYROOM SMOKE VENT SKYLIGHTS.



1 FA21 HOUSING UNIT LOWER LEVEL
SCALE: 1/8" = 1'-0"

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architecture
2722 North Oak Street
Valdosta, Georgia 31602
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info@s8darchitects.com
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SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER 20869 FRANKLIN D. HOSKINS

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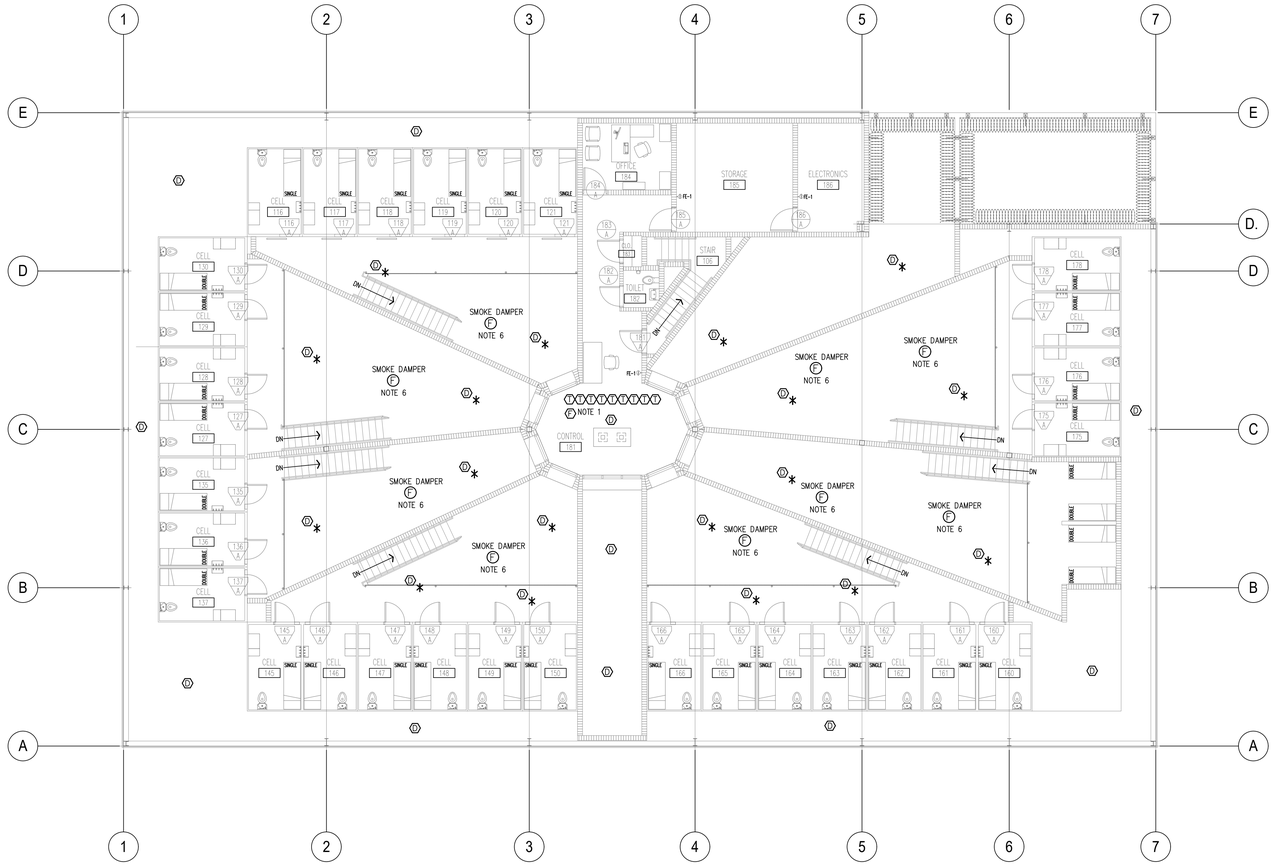
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HOUSING
FLOOR PLAN
FIRE ALARM

FA2.1

NOTES:

1. COORDINATE EXACT NUMBER OF FLOW AND TAMPER SWITCHES WITH THE SPRINKLER DRAWINGS. CONNECT ALL FLOWS AND TAMPER SWITCHES TO THE NEAREST FIRE ALARM PANEL.
2. COORDINATE EXACT NUMBER OF DUCT SMOKE DETECTORS WITH THE MECHANICAL DRAWINGS. PROVIDE CONNECTION FROM EACH DUCT DETECTOR TO THE RESPECTIVE HVAC UNIT AND FIRE ALARM CONTROL PANEL. SEE MECHANICAL DRAWINGS AND SPECIFICATIONS FOR SEQUENCE OF OPERATION.
3. ROUTE ALL FIRE ALARM DEVICES TO THE HOUSING FIRE ALARM PANEL LOCATED IN THE HOUSING CONTROL ROOM CORRIDOR.
4. ENTIRE FIRE ALARM SYSTEM BACKBONE SHALL BE FIBER OPTICS. SEE ONE LINE DIAGRAM.
5. WHERE SMOKE DETECTORS ARE REQUIRED IN THE SAME ROOM WITH GAS HEATING AND GAS WATER HEATERS, PROVIDE ADDITIONAL CARBON MONOXIDE TYPE DETECTORS. TYPICAL ALL AREAS OF THE FACILITY. SEE PLUMBING AND MECHANICAL DRAWINGS.
6. SMOKE EXHAUST DAMPERS. COORDINATE WITH MECHANICAL DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR DAYROOM SMOKE VENT SKYLIGHTS.



1 FA22 HOUSING UNIT LOWER LEVEL
SCALE: 1/8" = 1'-0"

STUDIO8 design
architecture
2722 North Oak Street
Valdosta, Georgia 31602
P.(229) 244-1188
info@s8darchitects.com
www.s8darchitects.com

TANNER HOSKINS ENGINEERING CONSULTANTS, LLC
ELECTRONIC SECURITY SYSTEMS, ELECTRICAL, LOW VOLTAGE & SECURITY HARDWARE
3447 Lake Seminole Place
Buford, Georgia 30519
ftanner@tannerhoskins.com
678-656-8832 mobile
www.tannerhoskins.com

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A HOUSING FACILITY FOR
NEWBERRY COUNTY DETENTION CENTER
NEWBERRY, SOUTH CAROLINA

SOUTH CAROLINA PROFESSIONAL ENGINEER 30866 TANNER HOSKINS CONSULTING, LLC

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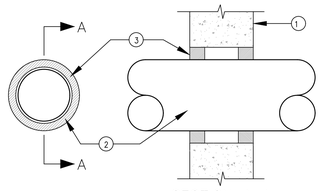
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HOUSING
FLOOR PLAN
FIRE ALARM

FA2.2

SYSTEM NO. WJ1028

F RATINGS - 1 & 2 HR (SEE ITEM 3)
T RATING - 0 HR



SECTION A-A

1. Wall Assembly – Min 2-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 12-1/2 in.

See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Through-Penetrants – One metallic pipe, conduit or tubing to be centered within the firestop system. The annular space between pipes, conduit or tubing and periphery of opening shall be min 1/2 in. to max 7/8 in. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used: steel pipe.

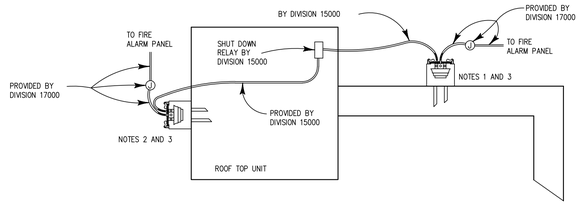
   A. Steel Pipe – Nom 10 in. diam (or smaller) Schedule 10 (or heavier)
   B. Conduit – Nom 4 in. diam (or smaller) steel electrical metallic tubing or nom 6 in. diam (or smaller) steel conduit.
   C. Copper Tubing – Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.
   D. Copper Pipe – Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.

3. Fill, Void or Cavity Material*-Sealant – Min 5/8 in. or 1-1/4 in. thickness of fill material applied within the annulus, flush with both surfaces of wall for 1 hr and 2 hr fire-rated walls, respectively.

   Hilti Construction Chemicals, Inc. – FS601 Sealant.

*Bearing the UL Classification Marking.

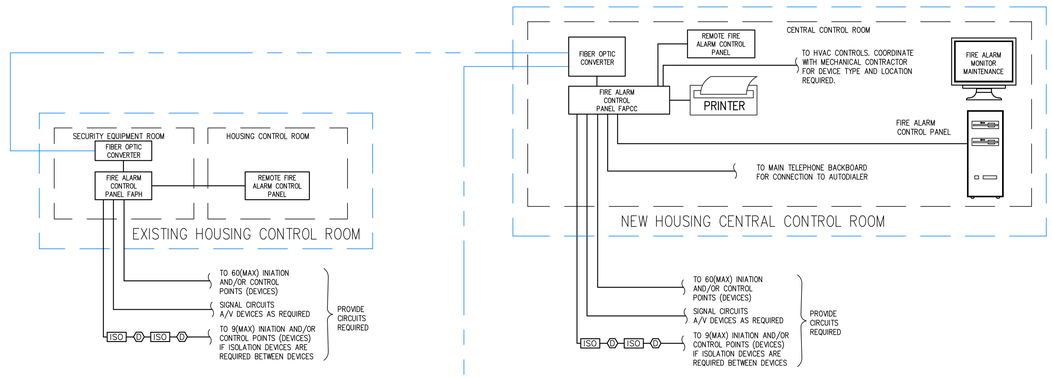
3 FA22 TYPICAL CONDUIT PENETRATION
SCALE: NONE



2 FA22 TYPICAL HVAC/FIRE ALARM INTERFACE
SCALE: NONE

NOTES:

1. MOUNT DETECTOR IN DUCTWORK PRIOR TO ANY TAKEOFF IF DUCTWORK IS ACCESSIBLE.
2. MOUNT DETECTOR IN THE SUPPLY PORTION OF THE AIR HANDLING UNIT/ROOF TOP UNIT IF THE DUCTWORK IS NOT ACCESSIBLE.
3. SMOKE DETECTOR PROVIDED BY ESC, MOUNTED BY MECHANICAL.



1 FA22 FIRE ALARM ONE LINE DIAGRAM
NO SCALE

LEGEND AND NOTES:

SUR	SURGE PROTECTION DEVICE. PROVIDE ON INCOMING AND OUTGOING DATA LOOPS
———	DUAL REDUNDANT DATA LOOP. PROVIDE IN SEPARATE CONDUITS. STYLE 7 SERIAL COMMUNICATION PATH – FIBER OPTIC LOOP – 12 STRANDS.
ISO	ISOLATION DEVICE REQUIRED TO MAINTAIN STYLE 7 BETWEEN DEVICES.

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SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER ROBERT DAVID HOSKINS

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FIRE ALARM ONE LINE DIAGRAM & DETAILS

FA2.3