WHITFIELD COUNTY

RIVERBEND PARK COMMUNITY CENTER/ CONCESSIONS STAND / RESTROOM

DALTON, GEORGIA

OCTOBER 7, 2020

EXISTING SITE LOCATION MAP
DALTON, GEORGIA

SHEET LIST

COMMUNITY CENTER GYM

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CONCESSION STAND / RESTROOM

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GENERAL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR BRACING ALL WORK DURING CONSTRUCTION.
2. FOOTINGS ARE DESIGNED FOR AN ALLOWABLE BEARING CAPACITY OF 3000 P.S.F. BOTTOM OF FOOTINGS SHALL BEAR 3'-0" INTO ORIGINAL GROUND OR ON CONTROLLED FILL AS SUPERVISED BY GEOTECHNICAL ENGINEER.
3. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 P.S.I. WITH A 4" MAXIMUM SLUMP. DETAILS NOT SHOWN SHALL BE ACCORDING TO ACI 318 AND ACI 301 SPECIFICATIONS FOR CONCRETE CONSTRUCTION.
   - REINFORCING STEEL SHALL BE ASTM A-615 GRADE 60 (TIES MAY BE GRADE 40)
   - W.W.F. SHALL BE ASTM A-185
   - CONCRETE SHALL HAVE AIR ENTERING AGENTS TO PRODUCE 3% TO 6% AIR BY VOLUME
   - GROUT SHALL BE 4000 PSI NON SHRINK
4. C.J. ON PLANS INDICATE CONTROL JOINT 1/8" x 1" DEEP SAWN WITHIN 24 HOURS AFTER PLACING CONCRETE. METAL JOINT MATERIAL MAY BE USED.
5. ARCHITECTS APPROVAL REQUIRED:
   - REINFORCING SHOP DRAWINGS
   - HANGERS & EQUIPMENT SUPPORTS
   - CONTRACTOR SHALL COORDINATE ALL MECHANICAL OPENINGS AND ADVISE ARCHITECT OF ANY STRUCTURAL CHANGES REQUIRED.
6. DESIGN CRITERIA:
   ROOF LOADS: LIVE LOAD = 20 PSF DEAD LOAD = 25 PSF
   FLOOR LOADS: OFFICE LL = 50PSF DL = 70 PSF
   CORRIDOR LL = 80 PSF DL = 70 PSF
   LOBBY LL = 100 PSF DL = 70 PSF
   MEETING ROOM LL = 80 PSF DL = 70 PSF
   LIVE LOAD REDUCTIONS PER IBC
   GROUND SNOW LOAD = 12 PSF
   WIND VELOCITY = 92 MPH IMPORTANCE = 2
   SEISMIC: (ALL VALUES BELOW ARE TO BE INCREASED BY 1.5)
   PEAK VELOCITY Av = 0.08
   PEAK ACCELERATION Aa = 0.08
   EXPOSURE GROUP = I
   PERFORMANCE CATEGORY = C
   SOIL TYPE S = 2.0
   RESISTING SYSTEM: SHEAR WALLS
   RESPONSE FACTOR R = 5.0
   AMPLIFICATION FACTOR Cd = 4.5
7. ALL COMPACTION TESTING, MATERIALS TESTING, SPECIAL INSPECTIONS FOR STEEL, ETC. TO BE BY GENERAL CONTRACTOR.
8. ALL UTILITY TAP FEES, METER FEES, PERMITS TO BE BY GENERAL CONTRACTOR.

PROTECTION SYSTEM NOTES:

1. ALL MEP TO CONFORM TO NFPA 75. SEE CHAPTER 10.
2. NFPA 75 - 5.3.2 REQUIRES A FLOOR DRAIN IN THE EQUIPMENT ROOM.
3. AUTOMATIC DETECTION SYSTEM TO PROVIDE EARLY WARNING OF FIRE. NFPA 72.
4. PORTABLE EXTINGUISHERS ARE REQUIRED THROUGHOUT AT EVERY 75 FEET
5. A/C UNITS TO HAVE SHUT DOWN WHEN FIRE SUPPRESSION IS ACTIVATED.
6. ALL ELECTRICAL TO CONFORM TO NFPA 70.

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WHITFIELD COUNTY GYM PRINTED DATE: 10/14/20

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CERTIFICATE NO. 025-7
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WHITFIELD COUNTY
RIVERBEND PARK
COMMUNITY CENTER
DALTON, GEORGIA

SHEET TITLE:
COVER SHEET

PRINTED:

NUMBER:
G-001

WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER/GYMNASIUM - CODE ANALYSIS

CURRENT MANDATORY CODES AS ADOPTED BY DCA:

- INTERNATIONAL BUILDING CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS (2020)
- INTERNATIONAL RESIDENTIAL CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS (2020)
- INTERNATIONAL FIRE CODE, 2018 EDITION (CONTACT STATE FIRE MARSHAL BELOW)
- INTERNATIONAL PLUMBING CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS (2020)
- INTERNATIONAL MECHANICAL CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS (2020)
- INTERNATIONAL FUEL GAS CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS (2020)
- NATIONAL ELECTRICAL CODE, 2017 EDITION (NO GEORGIA AMENDMENTS)
- INTERNATIONAL ENERGY CONSERVATION CODE, 2015 EDITION, WITH GEORGIA SUPPLEMENTS AND AMENDMENTS (2020)
- INTERNATIONAL SWIMMING POOL AND SPA CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS (2020)
- **NPFA 101 LIFE SAFETY CODE - 2018 EDITION.**

CURRENT PERMISSIVE CODES AS ADOPTED BY DCA:

- DISASTER RESILIENT BUILDING CODE IBC APPENDIX(2013)
- DISASTER RESILIENT BUILDING CODE IRC APPENDIX (2013)
- INTERNATIONAL PROPERTY MAINTENANCE CODE, 2012 EDITION, WITH GEORGIA AMENDMENTS (2015)
- INTERNATIONAL EXISTING BUILDING CODE, 2012 EDITION, WITH GEORGIA AMENDMENTS (2015)
- NATIONAL GREEN BUILDING STANDARD, 2008 EDITION, WITH GEORGIA AMENDMENTS (2011)

CONSTRUCTION TYPE - TYPE IIB - SPRINKLED

BUILDING CHARACTERISTICS - FIRST FLOOR - 30,495 S.F. ENCLOSED
MEZZANINE - 3,200 S.F.
FACILITY IS 30' AT THE HIGHEST POINT OF THE ROOF

CODE LIMITATIONS: OCCUPANCY CLASSIFICATION - ASSEMBLY (A-3 IBC)

T504.3 LIMITED TO 75 FEET IN HEIGHT T504.4 SHALL BE LIMITED TO 3 STORIES IN HEIGHT

T506.2 BUILDING AREA LIMITED TO 38,500 SQUARE FEET FOR SPRINKLED BUILDINGS WITH ONE STORY ABOVE GRADE PLANE.

SQUARE FOOTAGES -

SPACES	SQUARE FOOTAGE	MULTIPLIER	OCCUPANCY
GYMNASIUM	11,210 S.F.	50 S.F/PER PERSON	223 OCCUPANTS
BLEACHERS	18 ROWS OF 75 FEET	18 LINEAR INCHES P.P.	900 OCCUPANTS
OFFICE AREA/RESTROOMS	3608 S,F,	100S.F./PER PERSON	37 OCCUPANTS
CLASSROOM	1776 S.F.	20 S.F./PER PERSON	89 OCCUPANTS
COMMUNITY ROOM	1,008 S.F.	15 S.F./PER PERSON	68 OCCUPANTS
TOTAL FIRST FLOOR OCCUPANTS			1317 OCCUPANTS
MEZZANINE	3,200 S.F.	50S.F./PER PERSON	64 OCCUPANTS
TOTAL OCCUPANT LOAD			1381 OCCUPANTS

NFPA 101 LIFE SAFETY CODE

CHAPTER 12 - NEW ASSEMBLY OCCUPANCY

ALLOWABLE CONSTRUCTION TYPE (T12.1.6) TYPE II (0,0,0) 1-STORY ALLOWED (SPRINKLED)

12.2.3.2 EGRESS CAPACITY FACTOR

FIRST FLOOR

GYMNASIUM - 1123 OCCUPANTS X .22" = 247.06" OF EGRESS REQUIRED. 384 INCHES OF CLEAR WIDTH ARE PROVIDED.

COMMUNITY CENTER/OFFICE/RESTROOM AREA - 194 OCCUPANTS X .22 = 42.68" REQUIRED. 186" PROVIDED

MEZZANINE -

64 OCCUPANTS X .3 = 19.20" INCHES REQUIRED. 64" PROVIDED.

12.2.5 EGRESS -

4 MEANS OF EGRESS REQUIRED FROM EVERY SPACE (3 REQUIRED FROM AREAS WITH GREATER THAN 1000 OCCUPANTS).

COMMON PATH OF TRAVEL - 20 FEET. 75 FEET IN AREAS OF MORE THAN 50 OCCUPANTS.

DEAD-END CORRIDOR - 20 FEET

ALL EXIT DOORS AND DOORS IN EXIT ACCESS (CORRIDORS AND ASSEMBLY AREAS) TO HAVE PANIC HARDWARE

EXIT DISCHARGE SHALL COMPLY WITH 7.7

DOOR SWING DIRECTION (7.2.1.4.2) REQUIRES DOORS SERVING GREATER THAN 50 OCCUPANTS SHALL SWING IN THE DIRECTION OF EGRESS.

12.2.8 MEAN OF EGRESS ILLUMINATION - PROVIDE LIGHTING FROM EXITS TO PUBLIC WAY PER 7.8

12.2.9 EMERGENCY LIGHTING - PROVIDE EMERGENCY LIGHTING PER 7.9

12.2.10 EXIT MARKING - PROVIDE EXIT MARKING PER 7.10

12.3.1 UNPROTECTED VERTICAL OPENINGS

STAIRS SHALL BE PERMITTED TO BE UNENCLOSED BETWEEN MEZZANINES AND MAIN ASSEMBLY AREAS LOCATED BELOW PROVIDED THE MEZZANINE IS OPEN TO THE MAIN ASSEMBLY AREA. THIS MEZZANINE IS OPEN TO ASSEMBLY AREA AND MEETS MEZZANINE REQUIREMENTS, HOWEVER, THE STAIR IS ENCLOSED WITH A 1-HOUR FIRE RATING AND EXITS INTO A LOBBY PROTECTED BY 1-HOUR FIRE WALLS.

12.3.1 PROTECTION FROM HAZARDS - ROOMS TO BE SEPARATED WITH 1-HOUR FIRE SEPARATION (MECHANICAL IN AIR-HANDLERS ONLY, NO OPEN FLAMES AND IS, THEREFORE, NOT RATED) INCLUDE JANITOR'S CLOSET (PER 12.3.2.1.2(2).

12.3.3 INTERIOR FINISH

CORRIDORS AND LOBBIES TO BE CLASS A OR CLASS B

ASSEMBLY AREAS (GYM) TO BE CLASS A OR CLASS B

STAIRS SHALL HAVE CLASS A FINISHED

FLOORS SHALL BE CLASS II

12.3.4 DETECTION, ALARM, AND COMMUNICATION SYSTEMS

ASSEMBLY OCCUPANCIES WITH GREATER THAN 300 OCCUPANTS SHALL HAVE AN APPROVED FIRE ALARM IN ACCORDANCE WITH 9.6.1 AND NFPA 72. INITIATION SHALL BE IN ACCORDANCE WITH 9.6.2.1. NOTIFICATION SHALL BE PER 9.6.3.4. SUBMIT SHOP DRAWINGS FROM A LICENSES FIRE ALARM COMPANY FOR APPROVAL. FIRE ALARM IS PROVIDED AND IS ACTIVATED BY THE AUTOMATIC SPRINKLER SYSTEM.

EXTINGUISHMENT REQUIREMENTS -

12.3.5.2 SPECIFIES THAT ANY ASSEMBLY WITH GREATER THAN 300 OCCUPANTS MUST BE SPRINKLED.

CORRIDORS -

CORRIDOR AND LOBBIES PROTECTION IS NOT REQUIRED IN BUILDINGS PROTECTED THROUGHOUT BY AN AUTOMATIC SPRINKLER SYSTEM CONFORMING WITH 9.7.

PROJECT NOTES:

1. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
2. COORDINATE ALL WORK WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, STRUCTURAL, CIVIL, AND ALL OTHER DISCIPLINES.
3. STAGING AREA AND CONSTRUCTION ENTRANCE TO BE APPROVED BY OWNER PRIOR TO BEGINNING WORK.
4. SEE PROJECT MANUAL AND SPECIFICATIONS FOR ALL PRODUCT INFORMATION.
5. PROVIDE FURRING AND GYPSUM BOARD ENCLOSURES AT ALL FREE STANDING COLUMNS
   - TYPICAL GYPSUM BOARD TO BE BEYOND BASE PLATES.
6. FIRE EXTINGUISHERS AND CABINETS TO BE:
   -LARSEN'S ARCHITECTURAL SERIES - PROVIDE MP-20 EXTINGUISHER IN ALL CABINETS
   -PROVIDE LARSEN'S SURFACE MOUNTED CABINET #2409 WITH DECAL AND MP-20 EXTINGUISHER ON BLOCK WALLS
7. CONTRACTOR TO PROVIDE TORQUE TEST ON ALL STEEL CONNECTIONS.
8. CONTRACTOR TO PROVIDE COPY OF ALL LICENSES OF SUBCONTRACTORS WHO ARE TO WORK ON PROJECT PRIOR TO THEM STARTING.
9. PROVIDE PROFESSIONAL SEAL ON ALL PRE-ENGINEERED METAL BUILDING DRAWINGS.
10. ALL REQUIRED TESTING TO BE BY THE GENERAL CONTRACTOR INCLUDING STRUCTURAL, SOIL COMPACTION MATERIALS, ETC.
11. PROVIDE STEEL REINFORCING SHOP DRAWINGS PREPARED AND STAMPED BY GEORGIA REGISTERED ENGINEER.

PROJECT INFORMATION:

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ABBREVIATIONS

A.C.T.	ACOUSTICAL CEILING TILE	FIN.	FINISH	RAD.	RADIUS
A.F.F.	ABOVE FINISH FLOOR	FTG.	CONCRETE FOOTING	REC.	RECESSED
ALUM.	ALUMINUM	GALV.	GALVANIZED	SCHED.	SCHEDULE
BD.	BOARD	GYP.	GYPSUM	SPEC., SPECS.	SPECIFICATIONS MANUAL
C J	CONTROL JOINT	H.C.	HANDICAP	ST.	STEEL
C.L.	CENTER LINE	H.M.	HOLLOW METAL	TYP.	TYPICAL CONDITION
CMU	CONCRETE MASONRY UNIT	HORIZ.	HORIZONTAL	VERT.	VERTICAL
COL.	COLUMN	HT.	HEIGHT	W/	WITH
CONC.	CONCRETE	INSUL.	INSULATION		
CONT.	CONTINUOUS	JAN.	JANITOR		
CORR.	CORRIDOR	JT., JTS.	JOINT, JOINTS		
D.F.	DRINKING FOUNTAIN	LAM.	LAMINATE		
DIA., DIAM.	DIAMETER	LB.	POUND		
D.S.	DOWNSPOUT	MAX.	MAXIMUM		
E J	EXPANSION JOINT	MECH.	MECHANICAL		
ELEC.	ELECTRICAL	MTL.	METAL		
EQUIP.	EQUIPMENT	O.C.	ON CENTER		
E.W.	EACH WAY	O.H.	OVERHEAD		
F.D.	FLOOR DRAIN	PR.	PAIR		
F.E.C.	FIRE EXTINGUISHER & CABINET	PT.	PAINTED		

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WHITFIELD COUNTY GYM PRINTED DATE: 10/14/20

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REGISTERED ARCHITECT

WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER
DALTON, GEORGIA

SHEET TITLE:
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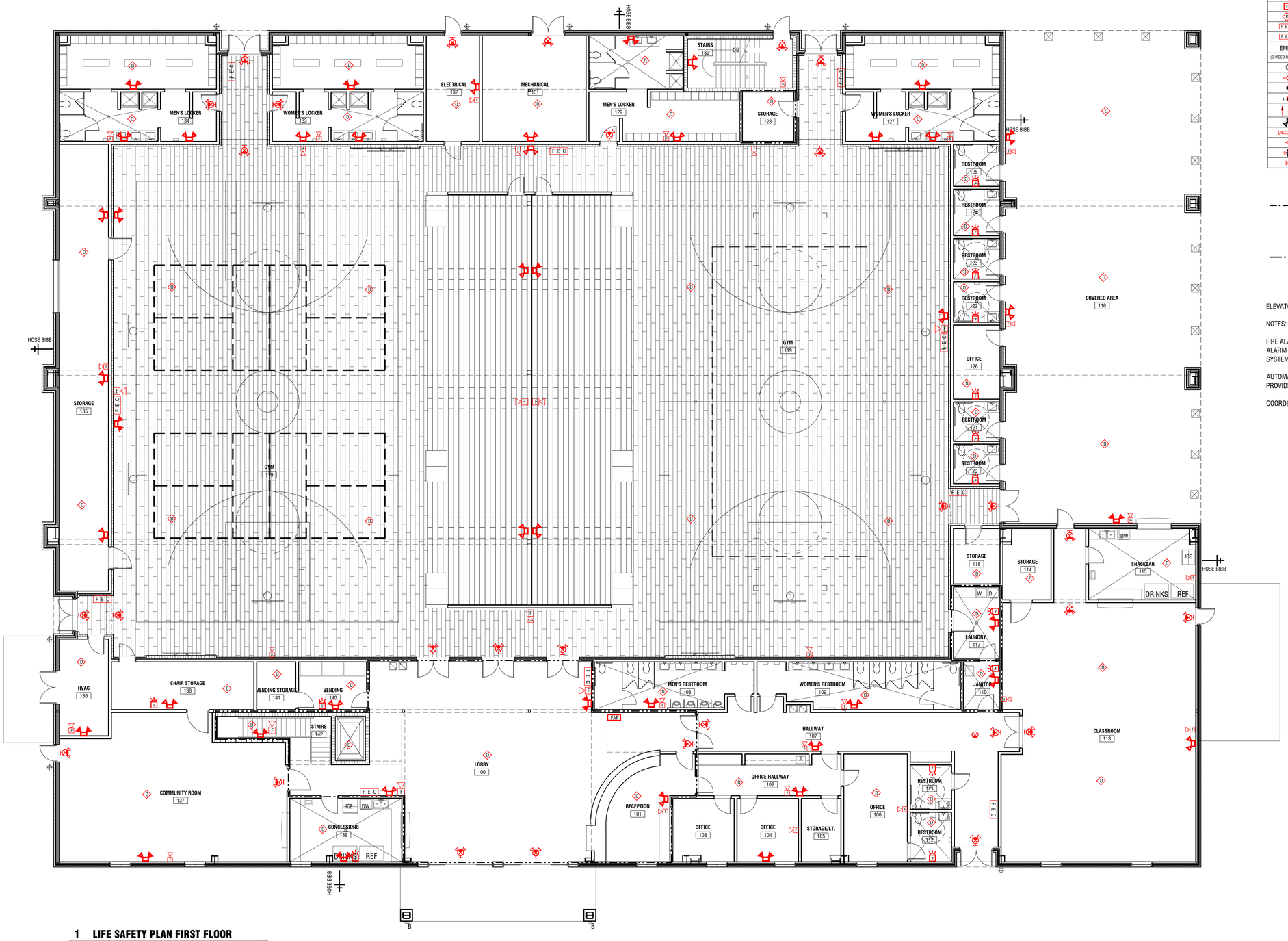

1 LIFE SAFETY PLAN FIRST FLOOR

1/8" = 1'-0"

F	FIRE ALARM PULL STATION
F	COMBINATION ALARM HORN/STROBE, 0'-8" AFF
F	STROBE ALARM, 0'-8" AFF
D	CEILING MOUNTED SYSTEM SMOKE DETECTOR
F E C	FIRE EXTINGUISHER CABINET
F A P	FIRE ALARM PANEL
EMERGENCY/EXIT	
(SHADED QUADRANT INDICATES DIRECTION OF FACE FOR EXIT LIGHTS)	
	SINGLE FACE EXIT LIGHT (CEILING OR PENDANT MOUNTED)
	SINGLE FACE EXIT LIGHT (WALL MOUNTED)
	DOUBLE FACE EXIT LIGHT (CEILING OR PENDANT MOUNTED)
	DOUBLE FACE EXIT LIGHT (WALL MOUNTED)
	ARROWS TO INDICATE DIRECTION OF EXIT TRAVEL
	BATTERY OPERATED EMERGENCY LIGHT W/TWO HEADS (WALL MOUNTED)
	BATTERY OPERATED EMERGENCY LIGHT W/TWO HEADS (RECESSED)
	REMOTE MOUNTED EMERGENCY HEAD
	COMBINATION LED EXIT LIGHT & BATTERY LIGHT
	COMBINATION LED EXIT LIGHT & BATTERY LIGHT

1 HOUR FIRE RATING

2 HOUR FIRE RATING

ELEVATOR SHAFT TO BE 2-HR. RATED.

NOTES:

FIRE ALARM EQUIPMENT (STROBES, EMERGENCY LIGHTS, EXIT SIGN, ETC.) ARE SHOWN FOR GUIDANCE ONLY. FIRE ALARM CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING NFPA 72 COMPLIANT AND FIRE MARSHAL APPROVED SYSTEM, NOTIFICATION, NUMBER OF FIXTURES, ETC. SUBMIT SHOP DRAWINGS FOR APPROVAL.

AUTOMATIC EXTINGUISHING SYSTEM SHALL BE PROVIDED COMPLYING W/ NFPA 13
PROVIDE COMPETE FIRE VAULT W/ ELECTRONIC MONITORING PER NFPA REQUIREMENTS. SUBMIT SHOP DRAWINGS.

COORDINATE FIXTURE LOCATIONS WITH ELECTRICAL

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WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER
DALTON, GEORGIA

SHEET TITLE:
FIRST FLOOR LIFE SAFETY PLAN

PRINTED:

NUMBER:
LS-101

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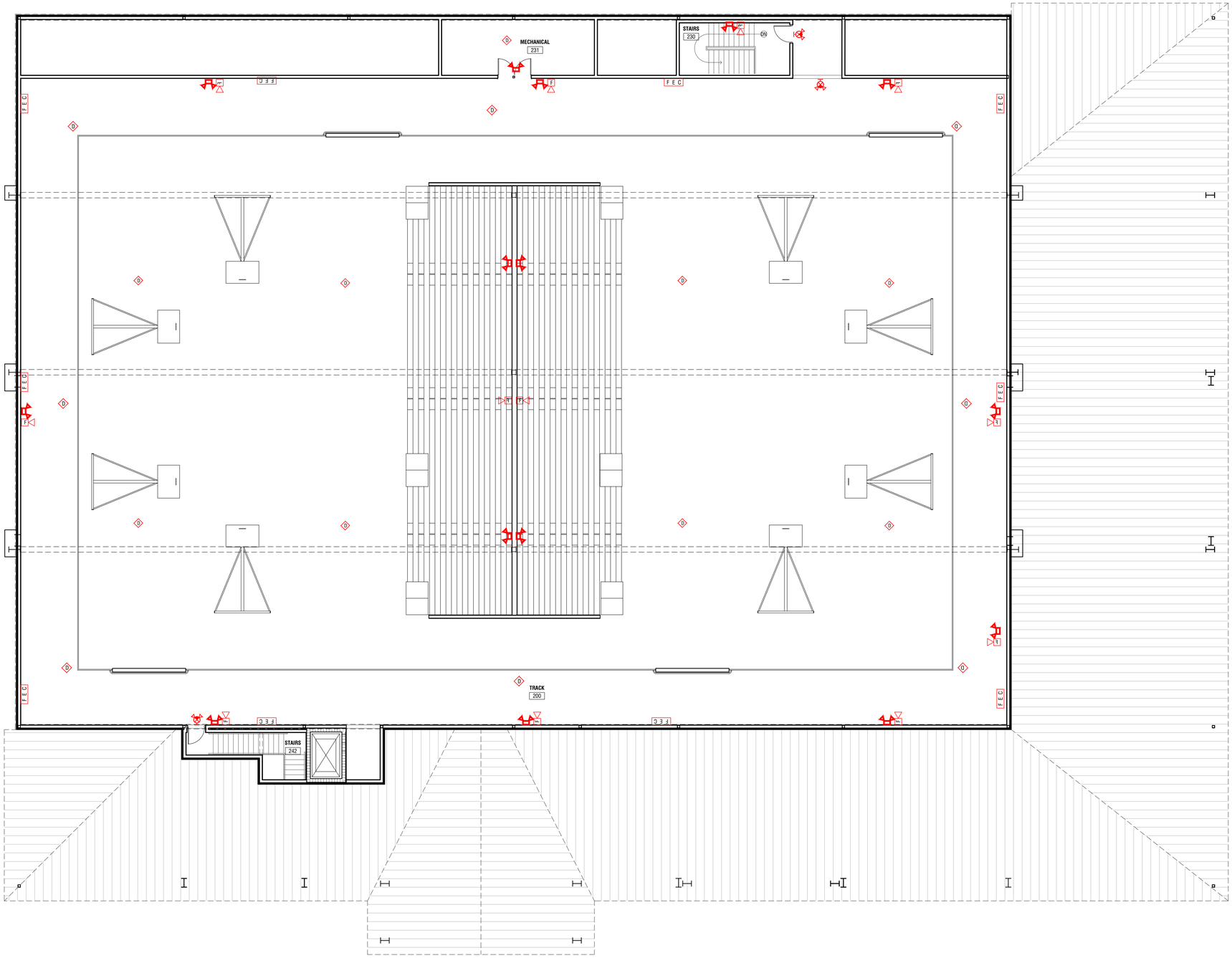

1 LIFE SAFETY PLAN SECOND FLOOR

1/8" = 1'-0"

F	FIRE ALARM PULL STATION
F	COMBINATION ALARM HORN/STROBE, 6'-8" AFF
F	STROBE ALARM, 6'-8" AFF
D	CEILING MOUNTED SYSTEM SMOKE DETECTOR
F E C	FIRE EXTINGUISHER CABINET
F A P	FIRE ALARM PANEL
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1 HOUR FIRE RATING

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COORDINATE FIXTURE LOCATIONS WITH ELECTRICAL

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WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER

DALTON, GEORGIA

SHEET TITLE: SECOND FLOOR LIFE SAFETY PLAN

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WHITFIELD COUNTY GYM PRINTED DATE: 10/14/20

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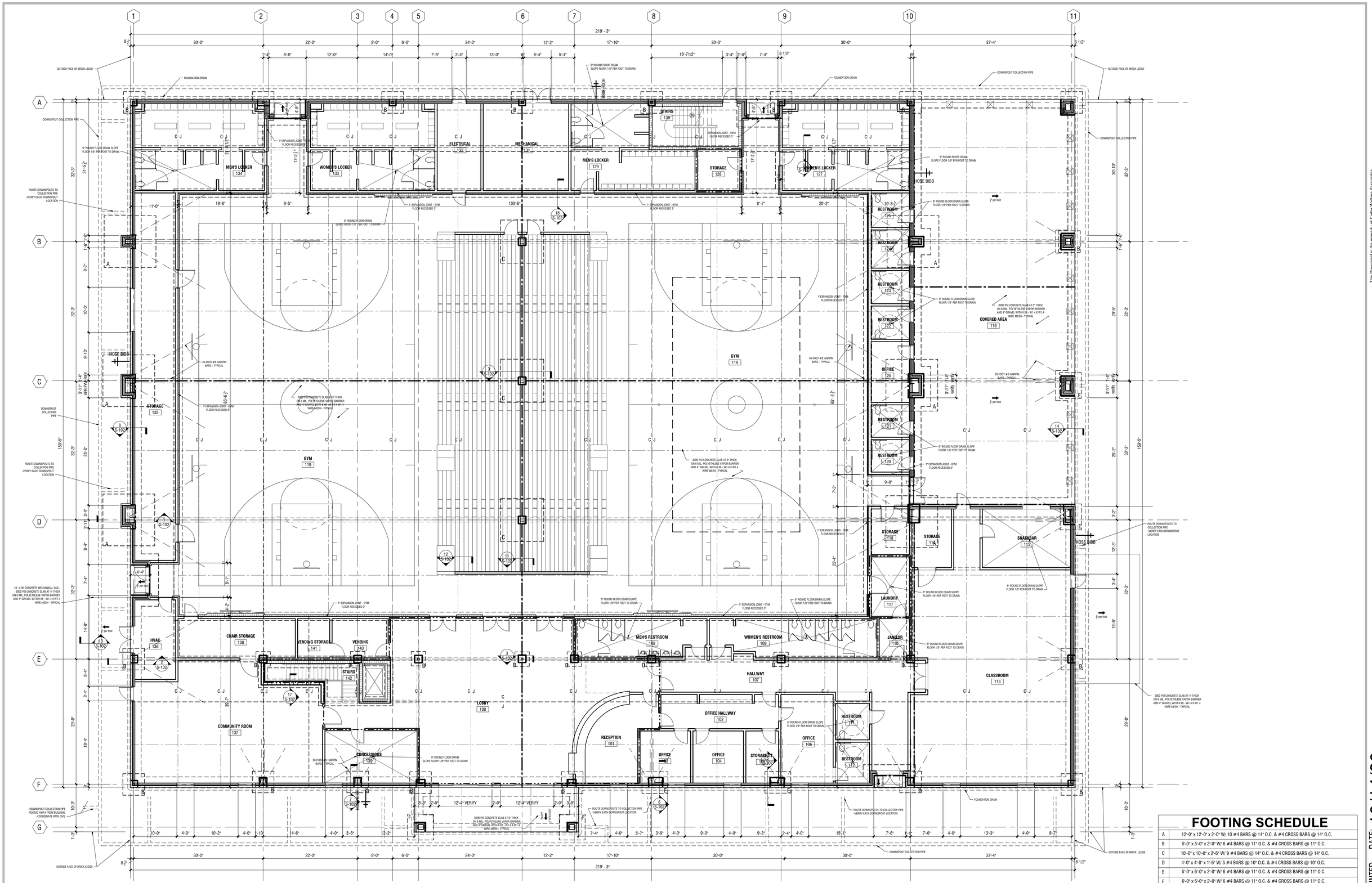

1 FOUNDATION PLAN

1/8" = 1'-0"

FOOTING SCHEDULE

A	12'-0" x 12'-0" x 2'-0" W/ 10 #4 BARS @ 14" O.C. & #4 CROSS BARS @ 14" O.C.
B	5'-0" x 5'-0" x 2'-0" W/ 6 #4 BARS @ 11" O.C. & #4 CROSS BARS @ 11" O.C.
C	10'-0" x 10'-0" x 2'-6" W/ 9 #4 BARS @ 14" O.C. & #4 CROSS BARS @ 14" O.C.
D	4'-0" x 4'-0" x 1'-6" W/ 5 #4 BARS @ 10" O.C. & #4 CROSS BARS @ 10" O.C.
E	5'-0" x 6'-0" x 2'-0" W/ 6 #4 BARS @ 11" O.C. & #4 CROSS BARS @ 11" O.C.
F	6'-0" x 6'-0" x 2'-0" W/ 6 #4 BARS @ 11" O.C. & #4 CROSS BARS @ 11" O.C.

EXPANSION JOINT — E.J.
CONTROL JOINT — C.J

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WHITFIELD COUNTY GYM

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STATE OF GEORGIA — BENJAMIN MERCER DAWES — CERTIFICATE NO. 024867 — REGISTERED ARCHITECT

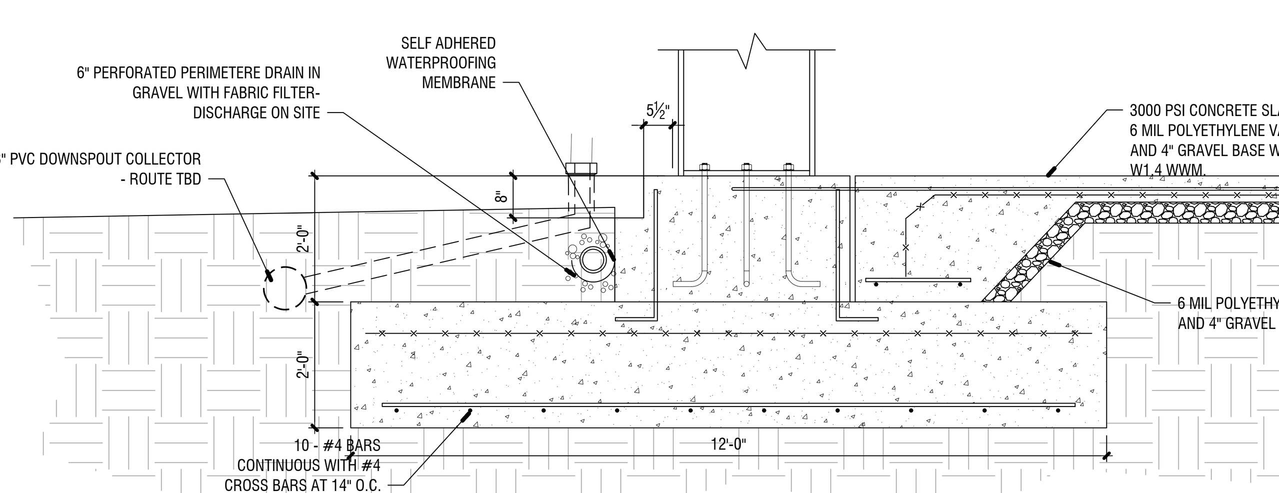
WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER

DALTON, GEORGIA

SHEET TITLE: FOUNDATION PLAN

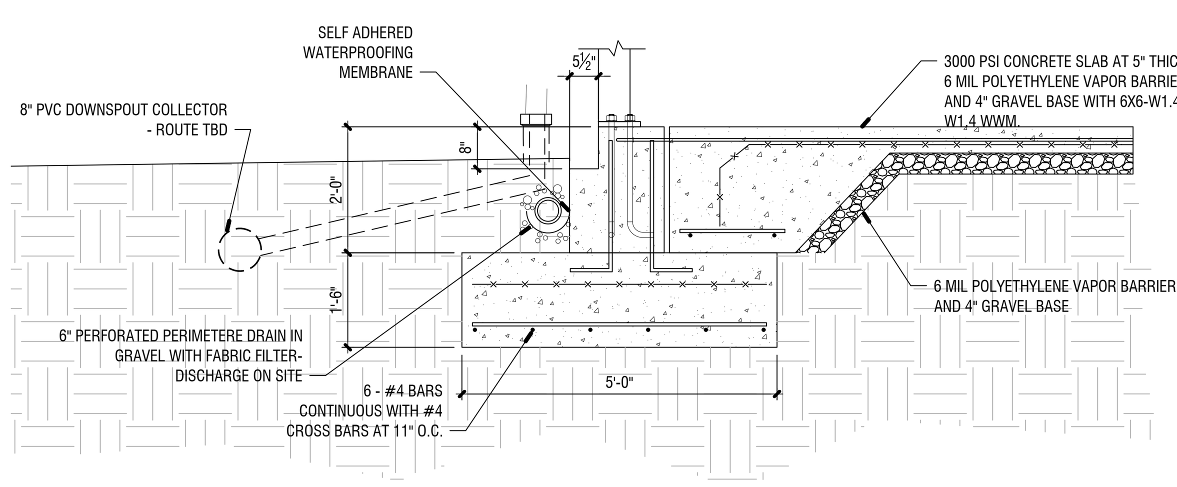
PRINTED:

NUMBER: S-101



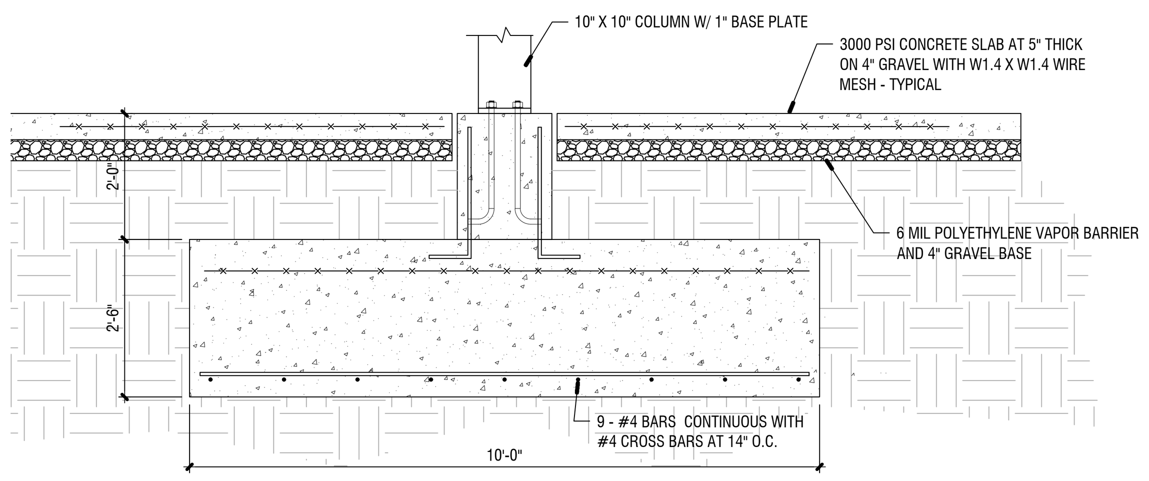
1 FOOTING A DETAIL

1/2" = 1'-0"



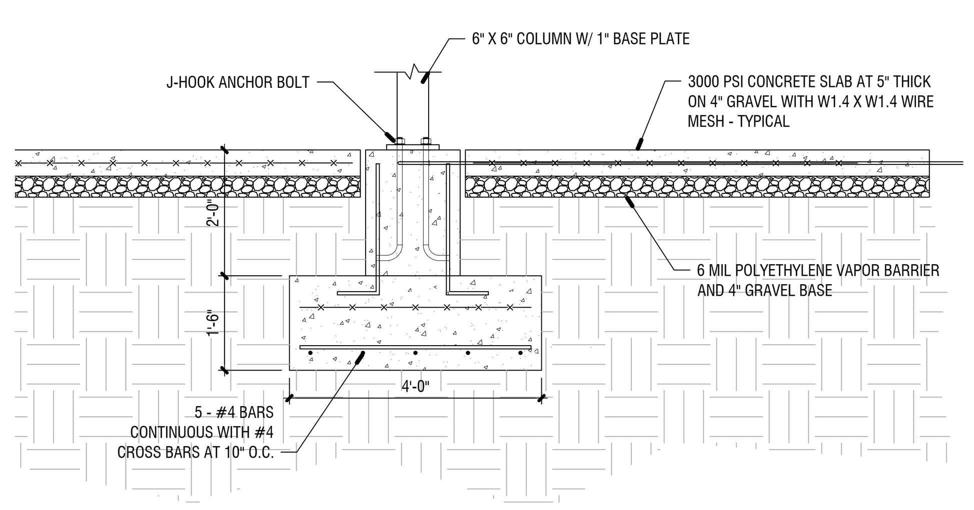
2 FOOTING B DETAIL

1/2" = 1'-0"



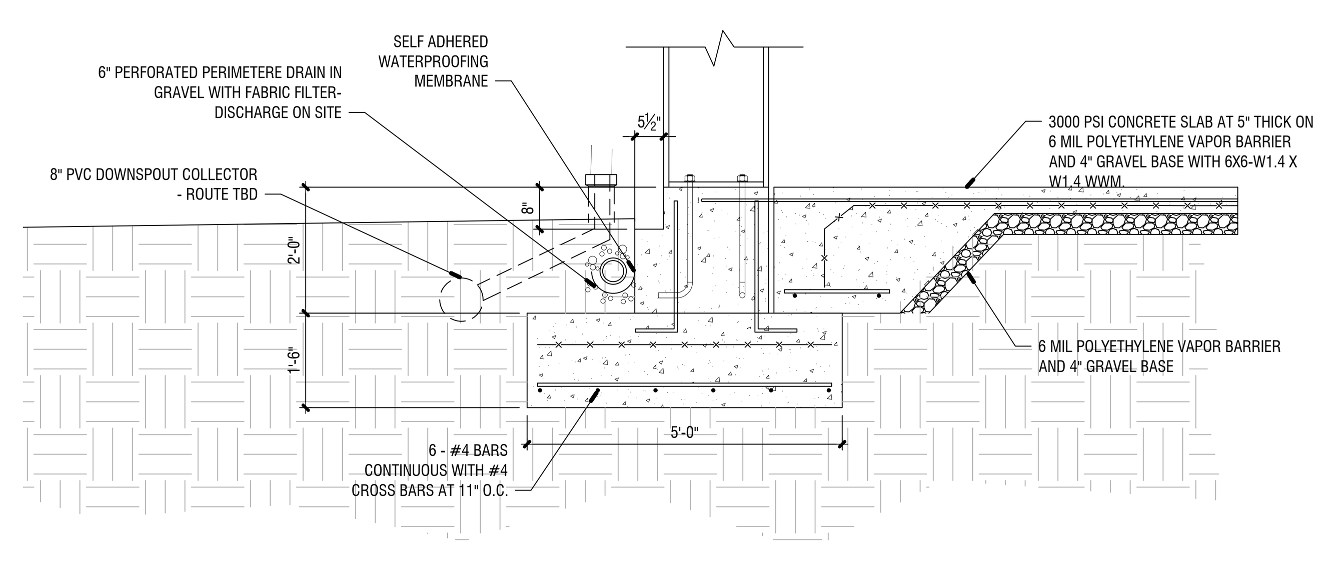
3 FOOTING C DEAIL

1/2" = 1'-0"



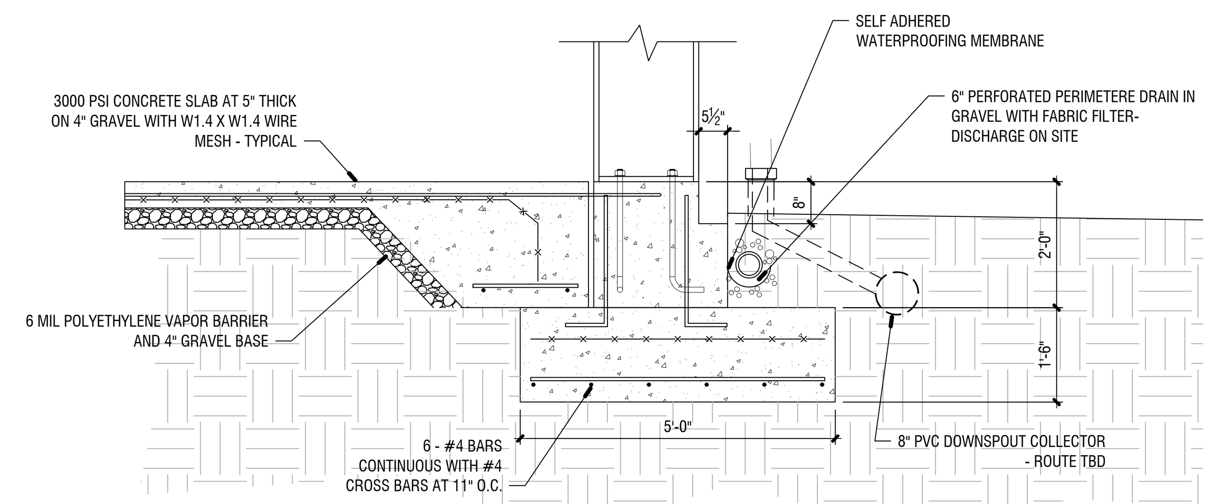
4 FOOTING D DETAIL

1/2" = 1'-0"



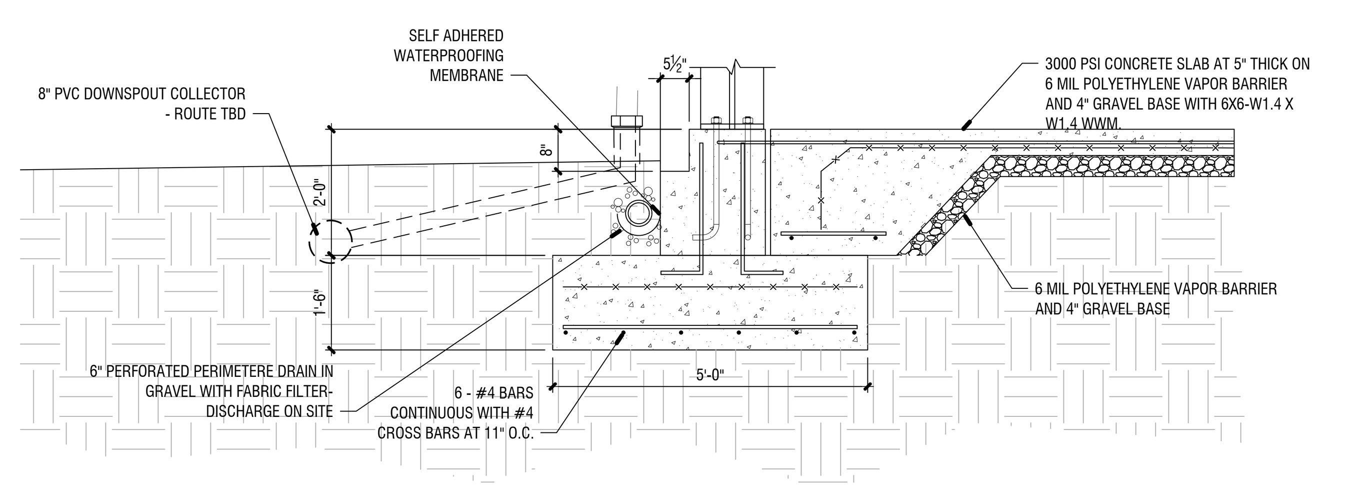
5 FOOTING E DETAIL

1/2" = 1'-0"



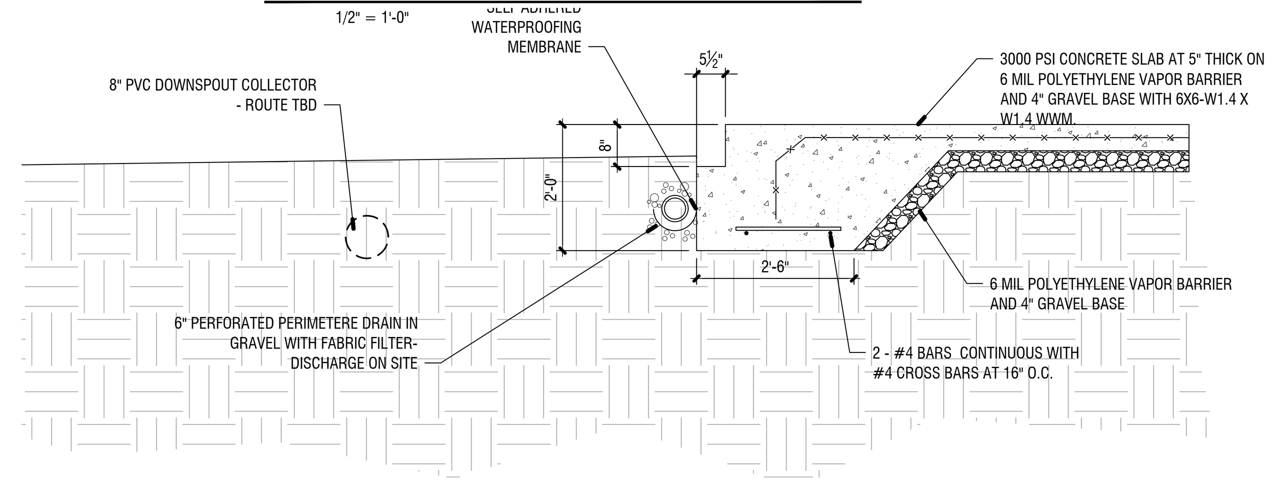
6 FOOTING F DETAIL

1/2" = 1'-0"



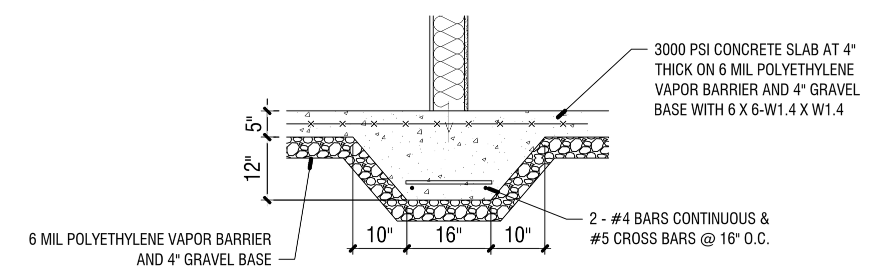
7 FOOTING G DETAIL

1/2" = 1'-0"



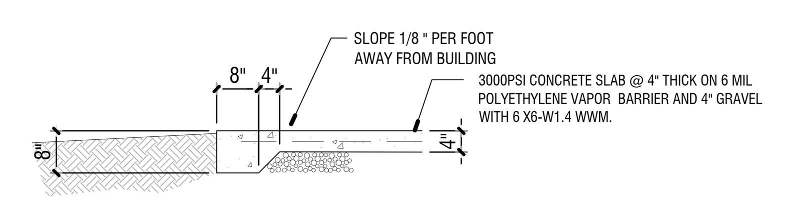
8 SLAB SECTION

1/2" = 1'-0"



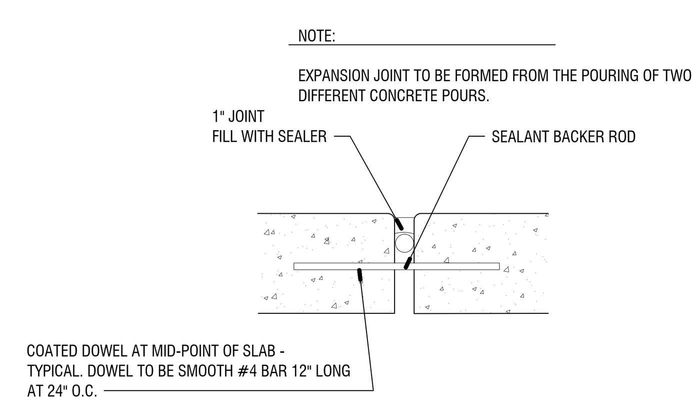
9 THICKENED SLAB AT LOAD BEARING WALL

1/2" = 1'-0"



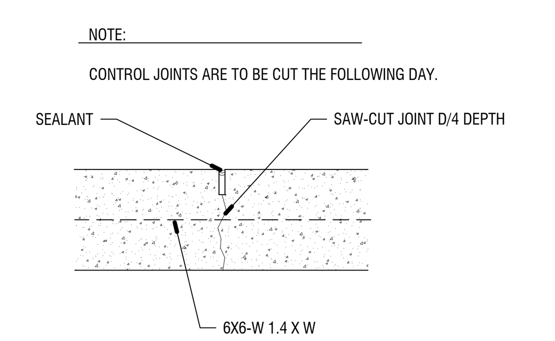
10 SIDEWALK SECTION

1/2" = 1'-0"



11 EXPANSION JOINT

1/2" = 1'-0"



12 CONTROLL JOINT

1/2" = 1'-0"

STRUCTURAL NOTES

GENERAL:

A. THE FOLLOWING NOTES APPLY TO ALL STRUCTURAL DRAWINGS.

B. ALL DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE 2015 EDITION, GEORGIA AMENDMENTS.

C. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL DRAWINGS.

D. THE STRUCTURE SHOWN ON THESE DRAWINGS IS SELF-SUPPORTING ONLY IN ITS COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE DESIGN, ADEQUACY, SAFETY, AND STABILITY OF ALL TEMPORARY ERECTION BRACING AND SHORING.

E. THE GENERAL CONTRACTOR SHALL COORDINATE ALL SIZES AND LOCATIONS OF ROOF PENETRATIONS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. ALL PENETRATIONS THROUGH ROOF DECK GREATER THAN 12" SQUARE SHALL BE FRAMED AS PER INDUSTRY STANDARDS AND WILL BE SHOWN FOR VERIFICATION IN SHOP DRAWINGS.

F. UNLESS NOTED, ELEVATIONS SHOWN ARE TO BE VERIFIED WITH ELEVATION MARKS OF ARCHITECTURAL DRAWINGS.

G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION IN ORDER TO COMPLY WITH THE CONTRACT DRAWINGS.

SHOP DRAWINGS:

A. THE CONTRACTOR SHALL SUBMIT, AS REQUIRED, PRINTS OF SHOP DRAWINGS FOR ALL FABRICATED MATERIALS TO ARCHITECT FOR REVIEW.

B. REVIEW OF SHOP DRAWINGS BY THE ARCHITECT\ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF THOSE SHOP DRAWINGS.

C. SHOP DRAWINGS REQUIRING A SPECIAL ENGINEERING DESIGN BY THE FABRICATOR SHALL BE STAMPED BY A REGISTERED ENGINEER OF RECORD IN THE STATE WHICH CONSTRUCTION WILL OCCUR BEFORE SUBMITTING FOR REVIEW BY THE ARCHITECT\ENGINEER. PROVIDE STEEL REINFORCING SHOP DRAWINGS W/ ENGINEERS STAMP.

SHALLOW FOUNDATIONS:

A. DESIGN SOIL BEARING PRESSURE IS 1500 PSF.

B. THE SITE SHALL BE PREPARED UNIFORM IN ACCORDANCE WITH CIVIL DRAWINGS & SPECIFICATIONS, A QUALIFIED GEOTECHNICAL ENGINEER SHALL VERIFY ALL COMPACTION AND BEARING CONDITIONS AND REPORT TO THE ARCHITECT\ENGINEER ANY VARIATIONS.

C. ALL EXCAVATIONS AND BUILDING PADS SHALL BE INSPECTED BY A QUALIFIED GEOTECHNICAL ENGINEER TO VERIFY THE DESIGN ASSUMPTIONS AND REPORT ADVERSE CONDITIONS.

D. WHERE FILL IS REQUIRED, IT SHALL BE PLACED IN ACCORDANCE WITH INSTRUCTIONS OF A QUALIFIED GEOTECHNICAL ENGINEER TO MAINTAIN DESIGN BEARING PRESSURE.

E. FOOTING ELEVATIONS GIVEN ARE FOR THE PURPOSE OF DESIGN. SOIL BELOW FOOTING NOT MEETING DESIGN BEARING PRESSURE SHALL BE EXCAVATED TO A DEPTH OF VERIFIABLE DESIGN PRESSURE AND BACKFILLED WITH 57 STONE TO A LEVEL OF FOUNDATION BEARING. THIS SHALL BE UNDER SUPERVISION OF A QUALIFIED GEOTECHNICAL ENGINEER.

F. F/S DENOTES STEP IN FOOTING. SEE "TYPICAL STEPPED FOOTING" DETAIL.

CONCRETE:

A. ALL CONCRETE DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318-95 AND ACI 301-96.

B. CEMENT SHALL BE TYPE I OR III CONFORMING TO ASTM C 150 AND CONCRETE SHALL DEVELOP A MINIMUM 28 DAY COMPRESSIVE STRENGTH AS FOLLOWS:
FOOTINGS 3000 PSI
INTERIOR SLAB-ON- GRADE 3000 PSI

C. TEST CYLINDERS SHALL BE TAKEN AS A REPRESENTATIVE SAMPLE OF CONCRETE PLACED IN THE AMOUNT 75 CUBIC YARD OR EVERY 24-HOUR PERIOD. RESULTS SHALL BE AVAILABLE AT JOB SITE.

D . TEST RESULTS SHALL BE FORWARDED TO THE ARCHITECT\ENGINEER UNLESS OTHERWISE NOTED, NORMAL WEIGHT CONCRETE (145 PCF) SHALL BE USED WITH 3/4 " MAX. COARSE AGGREGATE CONFORMING TO ASTM C 33.

E. CONCRETE SLUMP SHALL BE 3" - 5" (MAX) FOR REGULAR MIX WITH SUPERPLASTICIZER ADMIXTURES INCREASING SLUMP TO 8" (MAX) CONCRETE AIR-ENTRAINMENT SHALL BE 4.5% TO 7.5% FOR EXTERIOR SLABS AND 0% TO 3% FOR INTERIOR SLABS.

F. UNLESS OTHERWISE NOTED, CONCRETE COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

CONCRETE CAST AGAINST EARTH 3"
FORMED CONCRETE EXPOSED TO EARTH OR WEATHER 2"
INTERIOR SLABS 1"
EXPOSED WALLS 1 1/2"

G. NO ADDITIONAL WATER SHALL BE ADDED TO THE CONCRETE AT THE JOB SITE.

DESIGN LOADS:

A. DESIGN ROOF DEAD LOAD:
1. 20 PSF

B. DESIGN ROOF LIVE LOAD:
1. 20 PSF
2. 30 PSF AT HVAC UNIT SUPPORT.
3. REDUCTIONS APPLIED PER TRIBUTARY
4. AREA AS PERMITTED BY CODE,

C. OMITTED

D. DESIGN FLOOR LIVE LOAD:
1. 125 PSF SLAB-ON-GRADE

E. DESIGN SNOW LOAD:
1. GROUND SNOW LOAD, PG = 5 PSF

F. DESIGN WIND LOAD:
1. BASIC WIND SPEED (3 SECONDS GUST): 90 MPH
2. WIND IMPORTANCE FACTOR, 1w = 1.0
3. BUILDING CATEGORY: 1
4. WIND EXPOSURE CATEGORY: B
5. COMPONENTS AND CLADDING WIND PRESSURE: EDGE ZONE: -25, +20 PSF, INTERIOR ZONE: -21, +20 PSF

G. DESIGN SEISMIC INFORMATION
1. SEISMIC USE GROUP: 1.
2. SPECTRAL RESPONSE COEFFICIENT, SD = 0.40
3. SPECTRAL RESPONSE COEFFICIENT, SD1 = 0.19
4. SITE CLASS: D
5. BASE SEISMIC- FORCE RESISTING SYSTEM: SHEER WALL
6. DESIGN BASE SHEAR:
7. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE (1617.4)
8. DESIGN CATEGORY = C
9. SOIL TYPE S = 2.0
10. REPONSE FACTOR R = 3.5
11. APLIFICATION FACTOR Cd = 2.25

GROUT AND MORTAR:

A. GROUT UNDER BEARING PLATES SHALL BE NON-SHRINK SIKAGROUT 212 (OR APPROVED EQUAL), MIXING AND PLACEMENT SHALL BE IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

SLABS:

A. C.J. DENOTES CONCRETE SLAB "CONTROL JOINT" WHICH SHALL BE CUT INTO THE SLABS AT A DEPTH OF 1/4 TIMES THE THICKNESS OF THE SLAB WITHIN 12 HOURS OF PLACING THE CONCRETE. MAXIMUM SPACING OF INTERIOR SLAB CONTROL JOINTS, UNLESS OTHERWISE NOTED, SHALL BE 20'-0" (MAX) IN EACH DIRECTION.

B. SLAB CONSTRUCTION JOINTS SHALL BE USED IN PLACE OF CONTROL JOINTS WHERE NEEDED TO INTERRUPT A CONTINUOUS POUR. SLAB CONSTRUCTION JOINTS SHALL BE KEYED. JOINT LOCATIONS SHALL BE REVIEWED BY ARCHITECT.

C. PLACEMENT OF WELDED WIRE MESH IN SLAB, WHERE SPECIFIED, SHALL BE AT A CONSISTENT DEPTH OF 1"-2" FORM T\SLAB OVERLAP EACH REINFORCING SHEET TWO FULL PANELS AND TIE CROSS WIRES ON EACH SIDE.

D. REFER TO ARCHITECTURAL\MECHANICAL FOR SLAB FINISHES, SLAB DEPRESSIONS, ELEVATIONS, AND ENCASED OR EMBEDDED ITEMS.

E. PLUMBING AND ELECTRICAL CONDUITS SHALL BE PLACED BELOW THE SLAB AND NOT WITHIN THE SLAB. VERTICAL PENETRATIONS ARE ALLOWED.

F. COLUMN BOX-OUTS SHALL BE USED TO ISOLATE AN ADEQUATE AREA AROUND COLUMN BASE PLATES TO PROVIDE FOR COLUMN PLACEMENT AND LEVELING. BOX-OUTS ARE TO BE CLEAN AND FREE OF DEBRIS TO TOP OF FOOTING PRIOR TO FILLING WITH CONCRETE.

REINFORCING STEEL:

A. REINFORCING STEEL AND ACCESSORIES SHALL BE DETAILED IN ACCORDANCE WITH ACI (MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES AND CRSI (MANUAL OF STANDARD PRACTICE) LATEST EDITIONS.

B. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60 (UNLESS NOTED)

C. ALL TENSION SPLICES , INCLUDING SPLICES FROM BARS LABELED CONTINUOUS , SHALL BE CLASS "B" AND COFORM TO ACI 318-95.

D. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 AND BE LAPPED TWO FULL PANELS AND TIED ON EACH OTHER.

E. LONGITUDINAL REINFORCING BARS IN FOOTINGS SHALL BE PLACED CONTINUOUS AT CORNERS AND INTERSECTIONS.

F. FOR EVERY VERTICAL OR HORIZONTAL BAR DISCONTINUED BY AN OPENING, ONE BAR (MIN. OF 2 BARS) SHALL BE ADDED AT SIDE OF OPENING (HALF TO EACH SIDE - TYPICAL) .

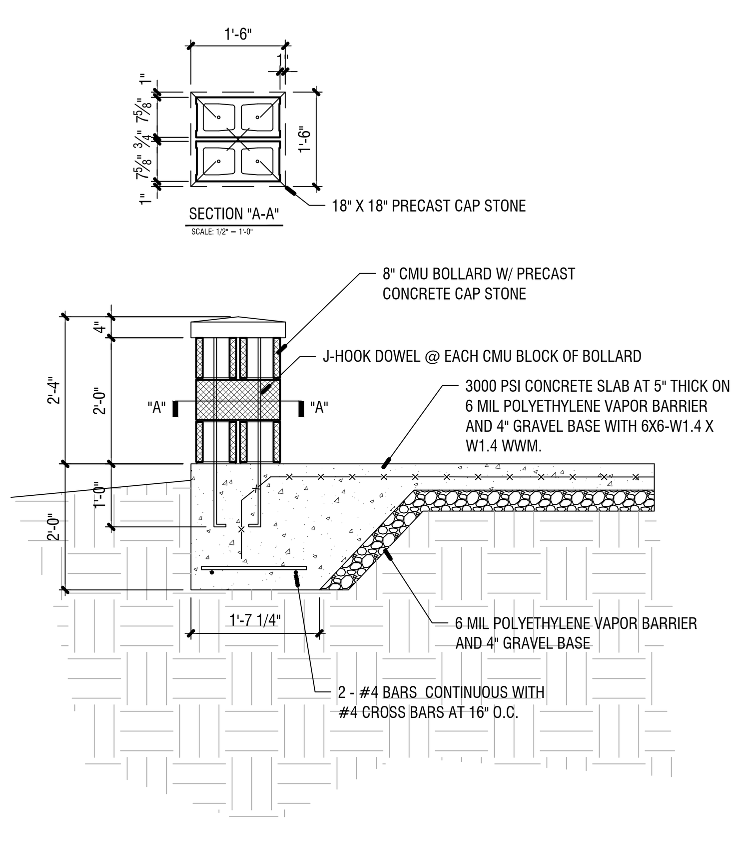
G. SUBMIT REINFORCING STEEL SHOP DRAWINGS W/ ENGINEERS STAMP.

GENERAL NOTES

1. CONTRACTOR TO PROVIDE FOUNDATION PLAN WITH GEORGIA REGISTERED ENGINEER'S STAMP SHOWING DIMENSIONS, FOOTINGS, LOADS, ETC. FOR (METAL BUILDING) ONLY.
2. SLOPE ALL FLOORS TOWARD FLOOR DRAINS AT 1/8" PER FOOT - TYPICAL
3. COORDINATE ALL UNDER SLAB WORK WITH FLOOR PLAN DIMENSIONS AND WITH PLUMBING DRAWINGS. SEE ALL MECHANICAL, ELECTRICAL, AND PLUMBING SHEETS FOR ALL UTILITY LOCATIONS.
4. ROUTE ALL DOWN SPOUTS UNDER SIDEWALKS AND ROUTE TO COLLECTOR TO DETENTION.
5. VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO ARCHITECT PRIOR TO PROCEEDING.
6. PROVIDE SLOPED AREAS AT ALL DOORS AS INDICATED.
7. PROVIDE COMPACTION TESTING AND SOIL POISONING PRIOR TO POURING SLAB AND FOOTINGS.
8. REFER TO THE GEO-TECHNICAL REPORT, CONTAINED IN THE PROJECT MANUAL, FOR PROCEDURES FOR UNDERCUTTING, PREPARATION, AND FILL FOR ALL FOUNDATIONS AND DRIVES.

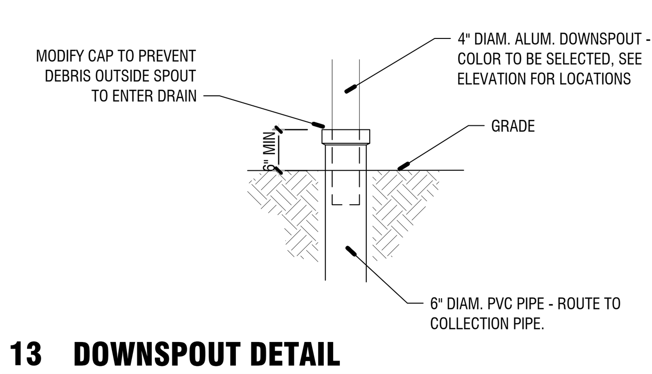
GENERAL STRUCTURAL NOTE

1. STRUCTURAL WORK TO INCLUDE ALL WORK SHOWN ON STRUCTURAL DRAWINGS AND ANY AND ALL STRUCTURAL WORK SHOWN ON ANY OTHER DRAWINGS IN THE SET. BIDS SHALL BE INCLUSIVE OF ALL STRUCTURAL WORK SHOWN ON ALL DRAWINGS AND SHALL INCLUDE ALL ACCESSORIES AND RELATED ITEMS REQUIRED FOR COMPLETE AND OPERABLE SYSTEMS AND ALL WORK AND ITEM AS REQUIRED BY THE LATEST VERSION OF ALL APPLICABLE CODES.
2. COORDINATE WORK WITH ALL EXISTING CONDITIONS. REPORT ANY DISCREPANCIES OR CONFLICTS TO THE ARCHITECT PRIOR TO PROCEEDING WITH THE AFFECTED PORTIONS OF THE WORK.
3. REQUEST CLARIFICATIONS OF ANY CONFLICTS BETWEEN STRUCTURAL AND ARCHITECTURAL DRAWINGS PRIOR TO BIDDING.



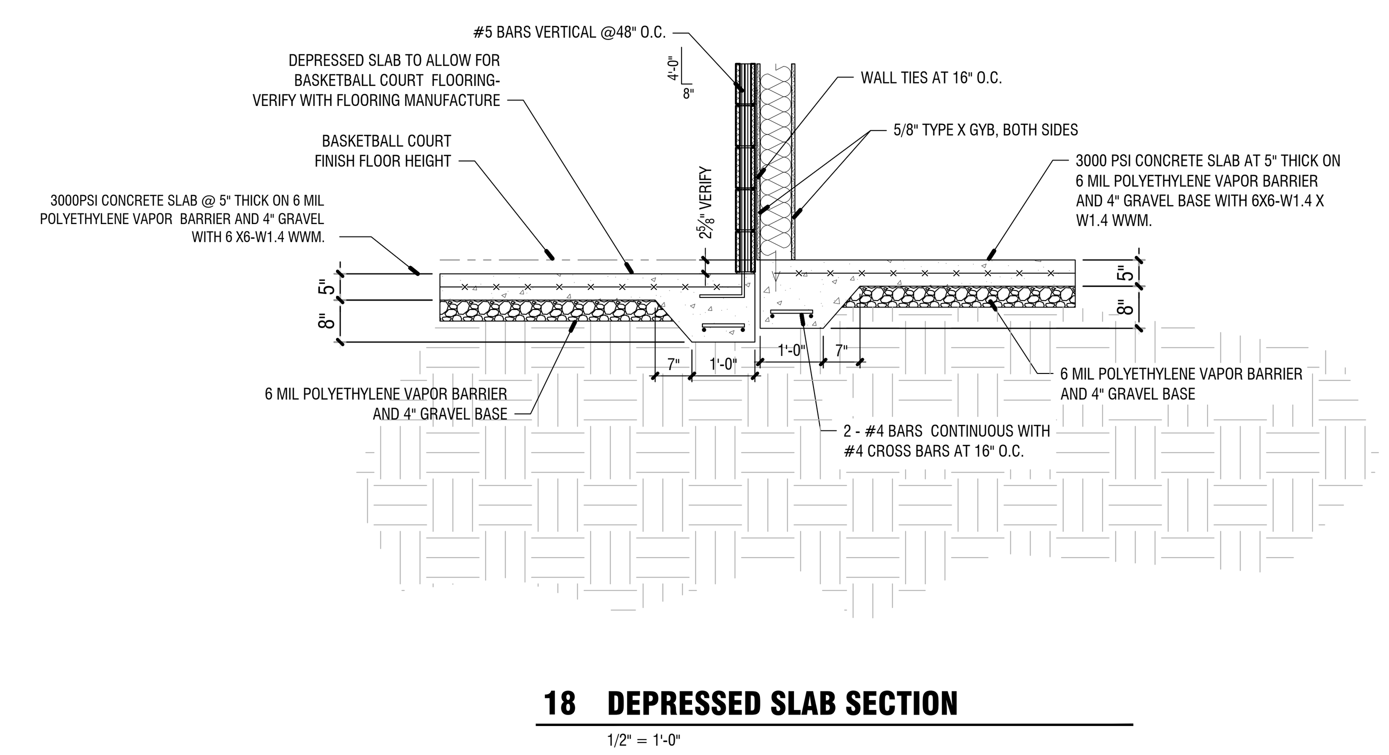
14 BOLLARD DETAIL

1/2" = 1'-0"



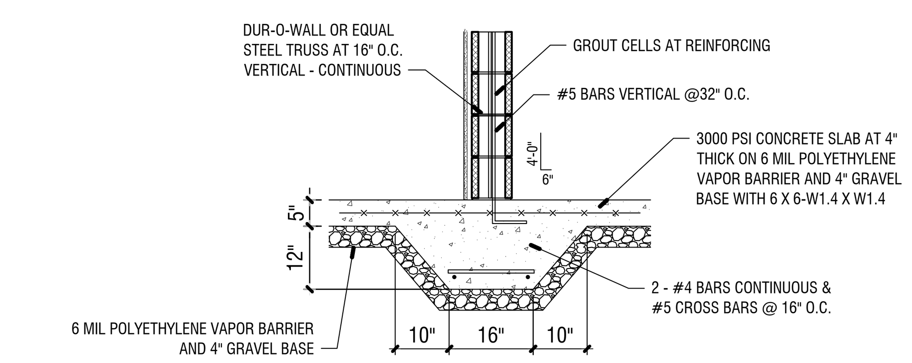
13 DOWNSPOUT DETAIL

1/2" = 1'-0"



18 DEPRESSED SLAB SECTION

1/2" = 1'-0"



17 THICKENED SLAB WITH CMU WALL

1/2" = 1'-0"

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STATE OF GEORGIA BENJAMIN MERCER CARTER CERTIFICATE NO. [illegible] REGISTERED ARCHITECT

WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER
DALTON, GEORGIA

SHEET TITLE: FOUNDATION DETAILS AND NOTES

PRINTED:

NUMBER: **S-102**

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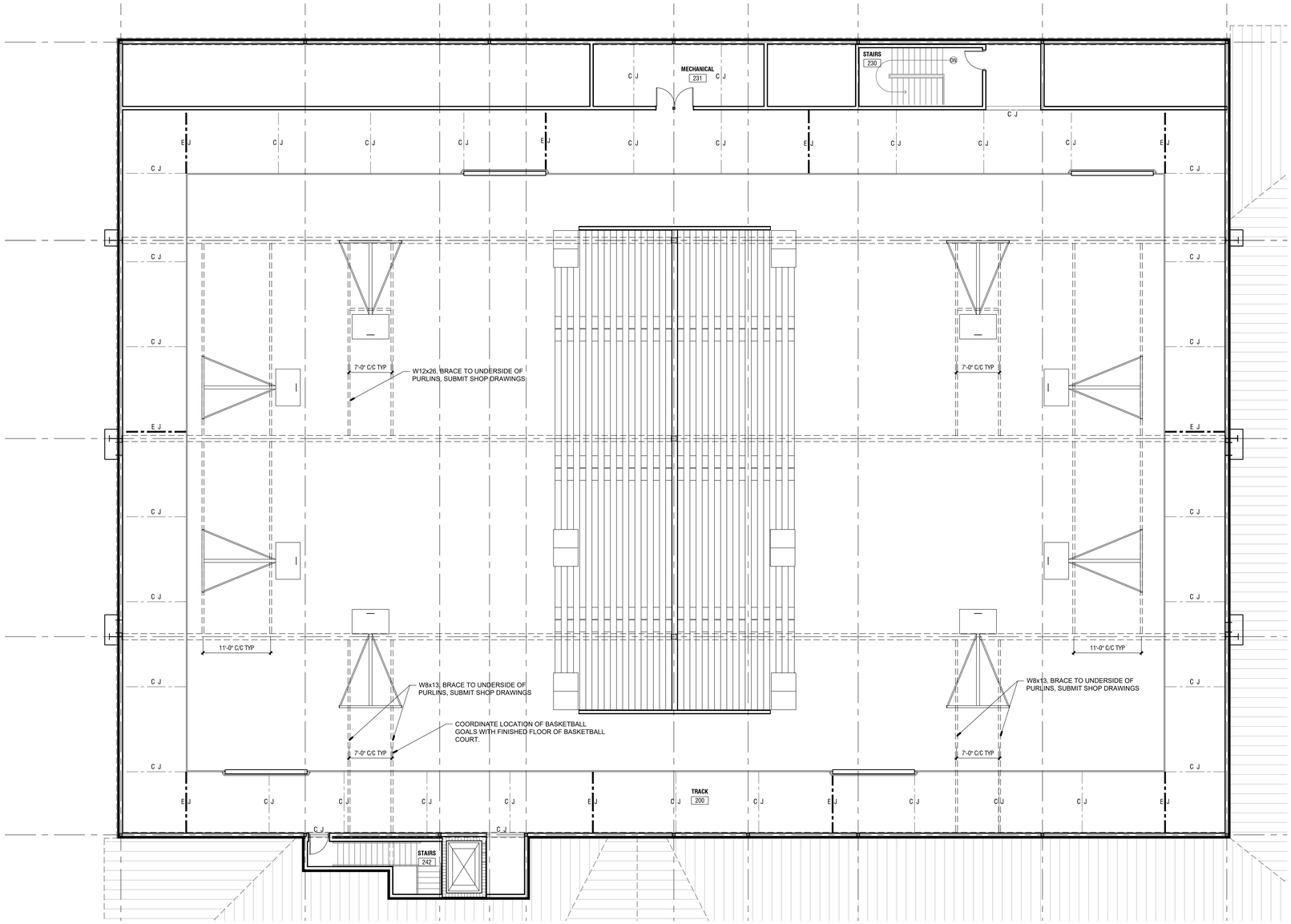

1 GOAL SUPPORT FRAMING PLAN

1/8" = 1'-0"

NOTES:

1. COORDINATE GOAL SUPPORT FRAMING WITH STEEL BUILDING MANUFACTURES DRAWINGS.
2. VERIFY CHOSEN GOAL MANUFACTURES MOUNTING LOCATIONS AND INSTRUCTIONS BEFORE INSTALLATION OF SUPPORT FRAMING.
3. ALL W8X13 EXTRA PROVIDED ROOF PURLINS AT NORMAL SPACE. ATTACH W8 TO DECK @ 24" O.C.
4. ENSURE ALL GOALS ARE MOUNTED LEVEL. SHIM & BRACE AS REQUIRED.
5. COORDINATE GYM FLOOR AND BASKETBALL GOAL LOCATIONS PER BASKETBALL STANDARD GOAL AND COURT REGULATIONS
6. PROVIDE SHOP DRAWINGS

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STATE OF GEORGIA
BENJAMIN MERCER CARTER
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REGISTERED ARCHITECT

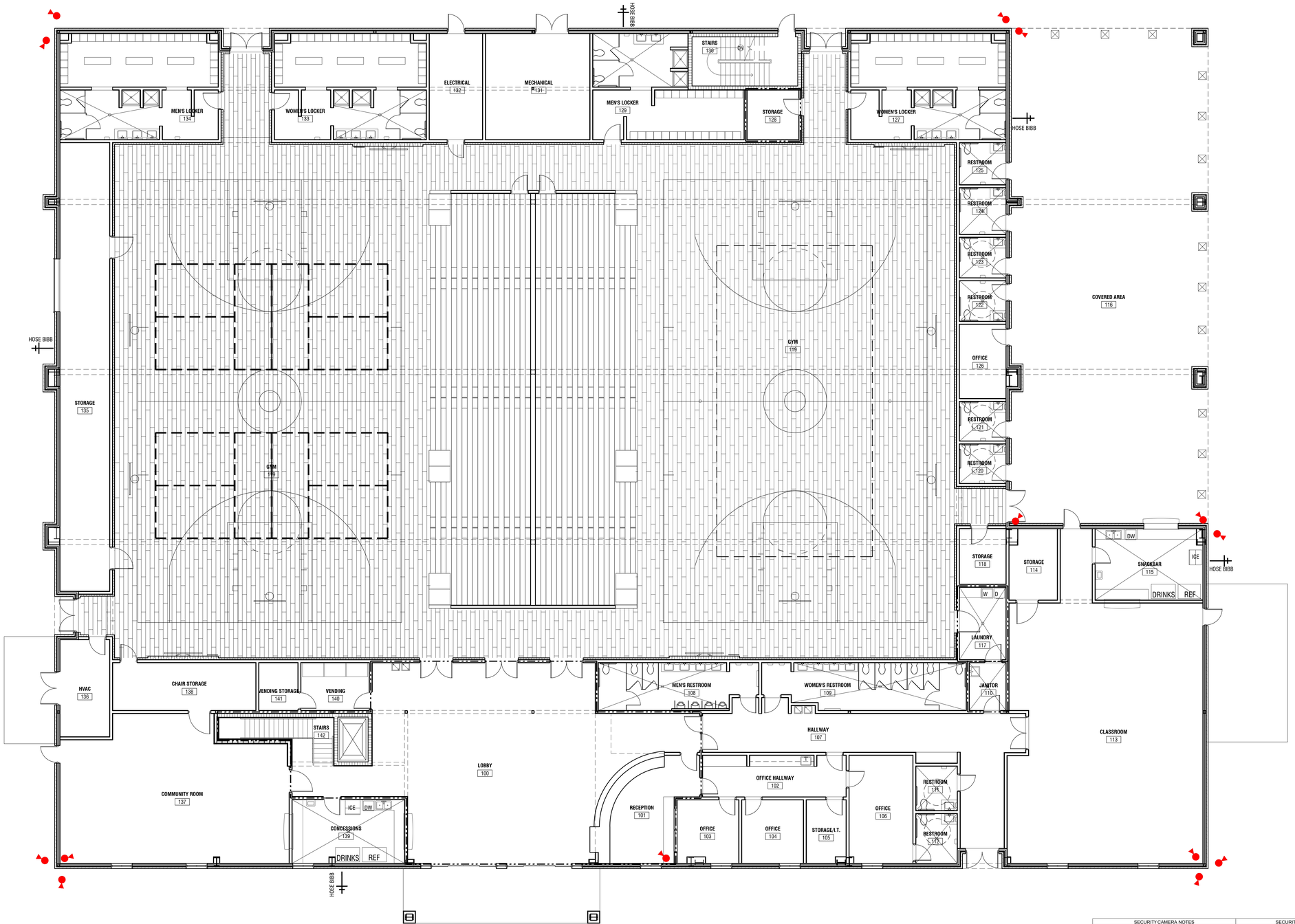
WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER

DALTON, GEORGIA

SHEET TITLE:
GOAL SUPPORT FRAMING PLAN

PRINTED:

NUMBER:
S-103



1 ACCESS CONTROL

1/8" = 1'-0"

SECURITY CAMERA NOTES	SECURITY CAMERA LEGEND
SECURITY CAMERAS - ALL DEVICES AND QUANTITIES WILL BE DERIVED FROM THESE DRAWINGS - REVIEW SPECIFICATIONS FOR EQUIPMENT REQUIREMENTS - SECURITY SYSTEMS CONTRACTOR WILL PROVIDE ALL ANCILLARY EQUIPMENT NECESSARY TO PROVIDE A FULLY FUNCTIONING VIDEO SURVEILLANCE MANAGEMENT SYSTEM. THIS INCLUDES BUT IS NOT LIMITED TO: - VIDEO WALL COMPONENTS - CAMERA ACCESSORIES SUCH AS MOUNTS, ETC. - NETWORK SWITCHES FROM THE SAME MANUFACTURER AS CAMERAS FINAL LOCATIONS OF HEAD END / DISTRIBUTED CONTROL EQUIPMENT TO BE DETERMINED BY ARCHITECT AND CLIENT.	SECURITY CAMERA TYPE 1 LOCATION. SEE SPECIFICATION FOR CAMERA REQUIREMENTS.

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SEAL

STATE OF GEORGIA
BENJAMIN MERCER FARMER
CERTIFICATE NO. 024-2
REGISTERED ARCHITECT

WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER
DALTON, GEORGIA

SHEET TITLE:
ACCESS CONTROL

NUMBER:
AC-101

PRINTED:

WHITFIELD COUNTY GYM PRINTED DATE: 10/14/20

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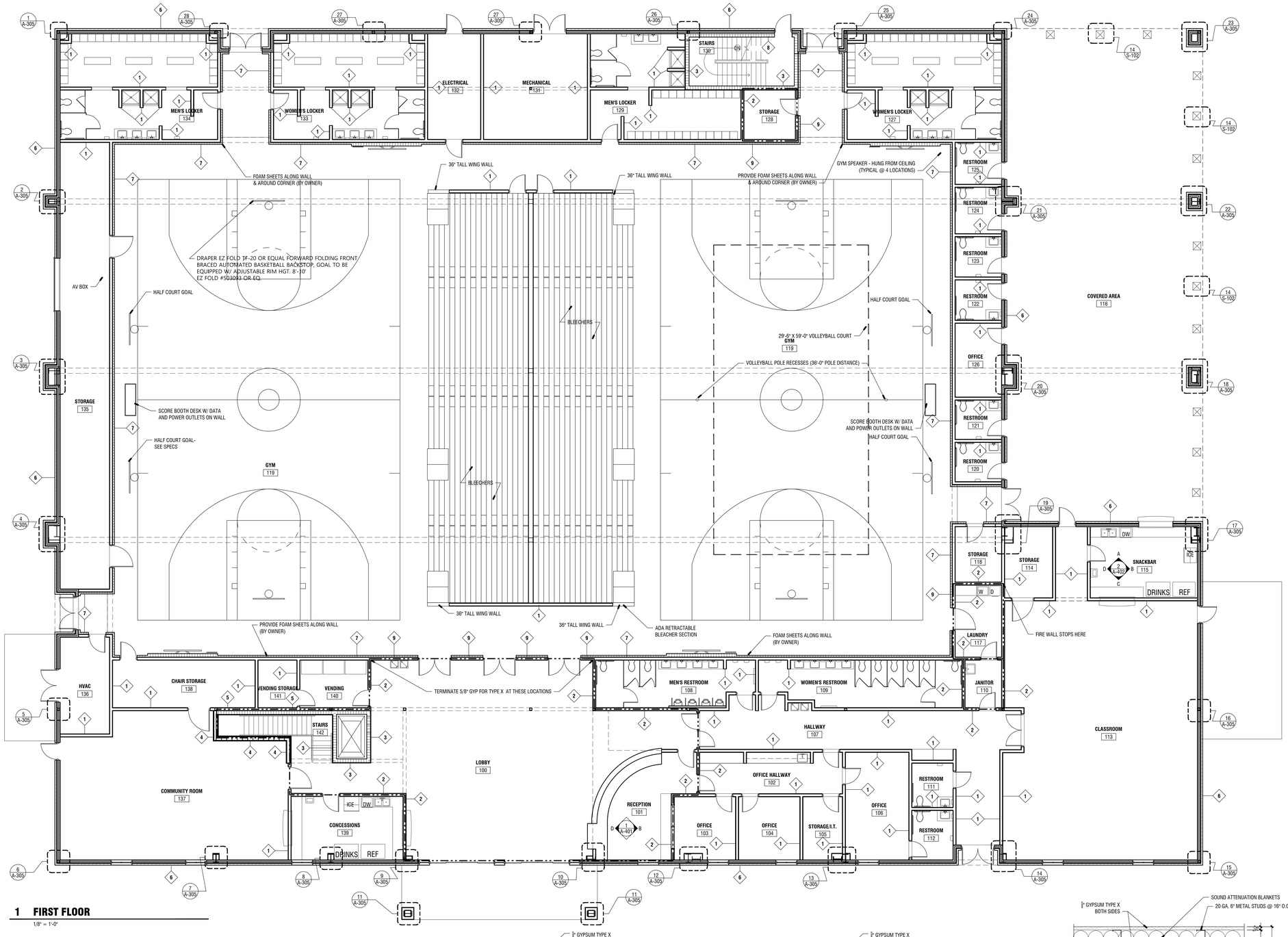
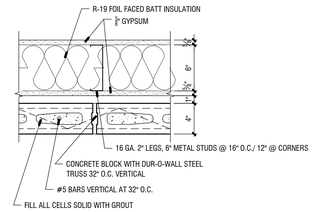


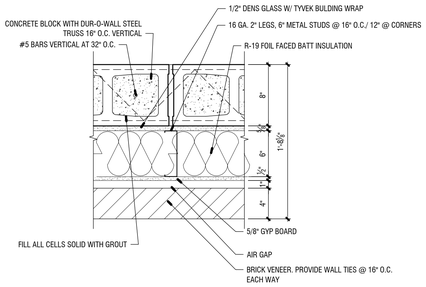
1 FIRST FLOOR

1/8" = 1'-0"

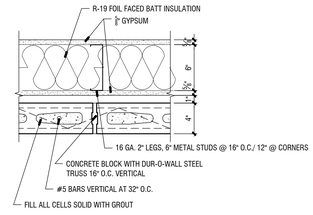


9 INTERIOR GYM WALL

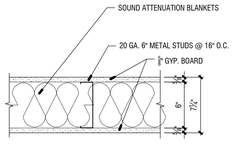
*FIREWALL @ LOBBY ENTRANCE TO GYM FLOOR



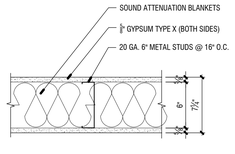
8 REAR STAIR WALL



7 INTERIOR GYM WALL

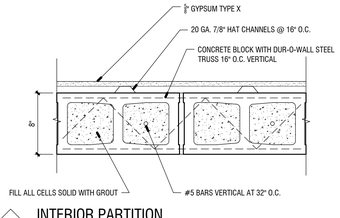


1 INTERIOR PARTITION



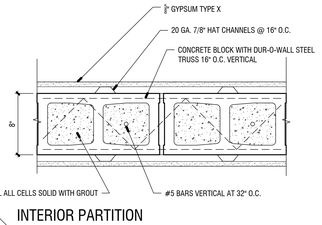
2 INTERIOR PARTITION

*FIREWALL - 1 HR.



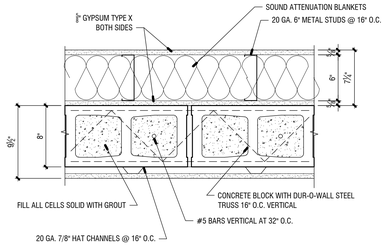
3 INTERIOR PARTITION

*ELEVATOR CMU WALL - 2HR.



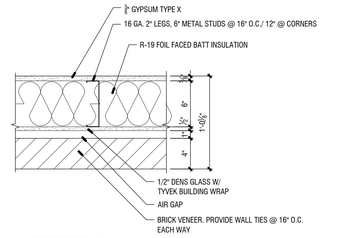
4 INTERIOR PARTITION

*STAIRWELL CMU WALL



5 INTERIOR PARTITION

*STUD AND CMU WALL @ ELEVATOR/STAIRS



6 EXTERIOR WALL

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SEAL

STATE OF GEORGIA · BENJAMIN MERCER LAWRY · CERTIFICATE NO. 036547 · REGISTERED ARCHITECT

WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER

DALTON, GEORGIA

SHEET TITLE: FIRST FLOOR

PRINTED:

NUMBER: A-101

WHITFIELD COUNTY GYM PRINTED DATE: 10/14/20

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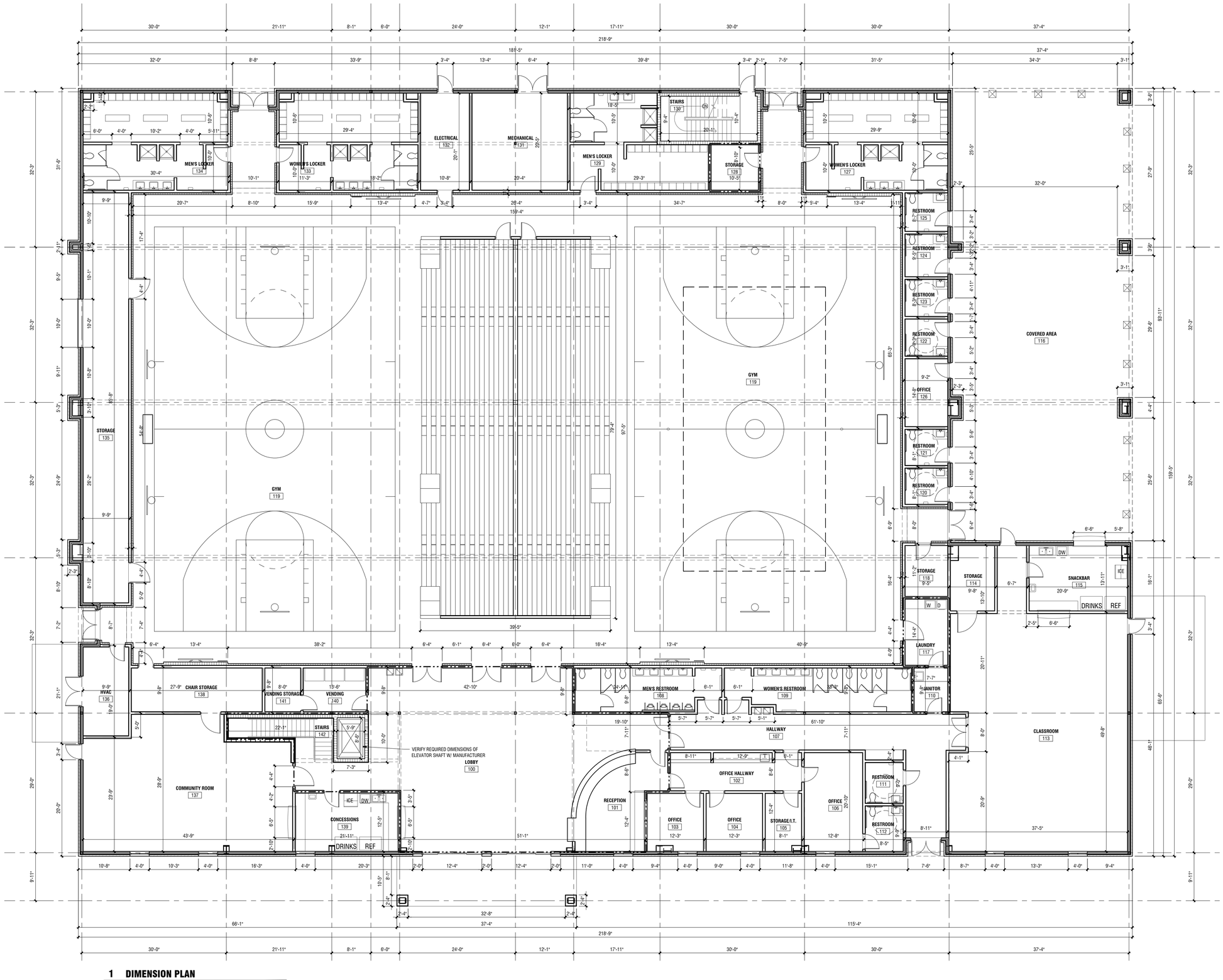

1 DIMENSION PLAN

1/8" = 1'-0"

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BENJAMIN MERCER PARKER
CERTIFICATE NO. 0000
REGISTERED ARCHITECT

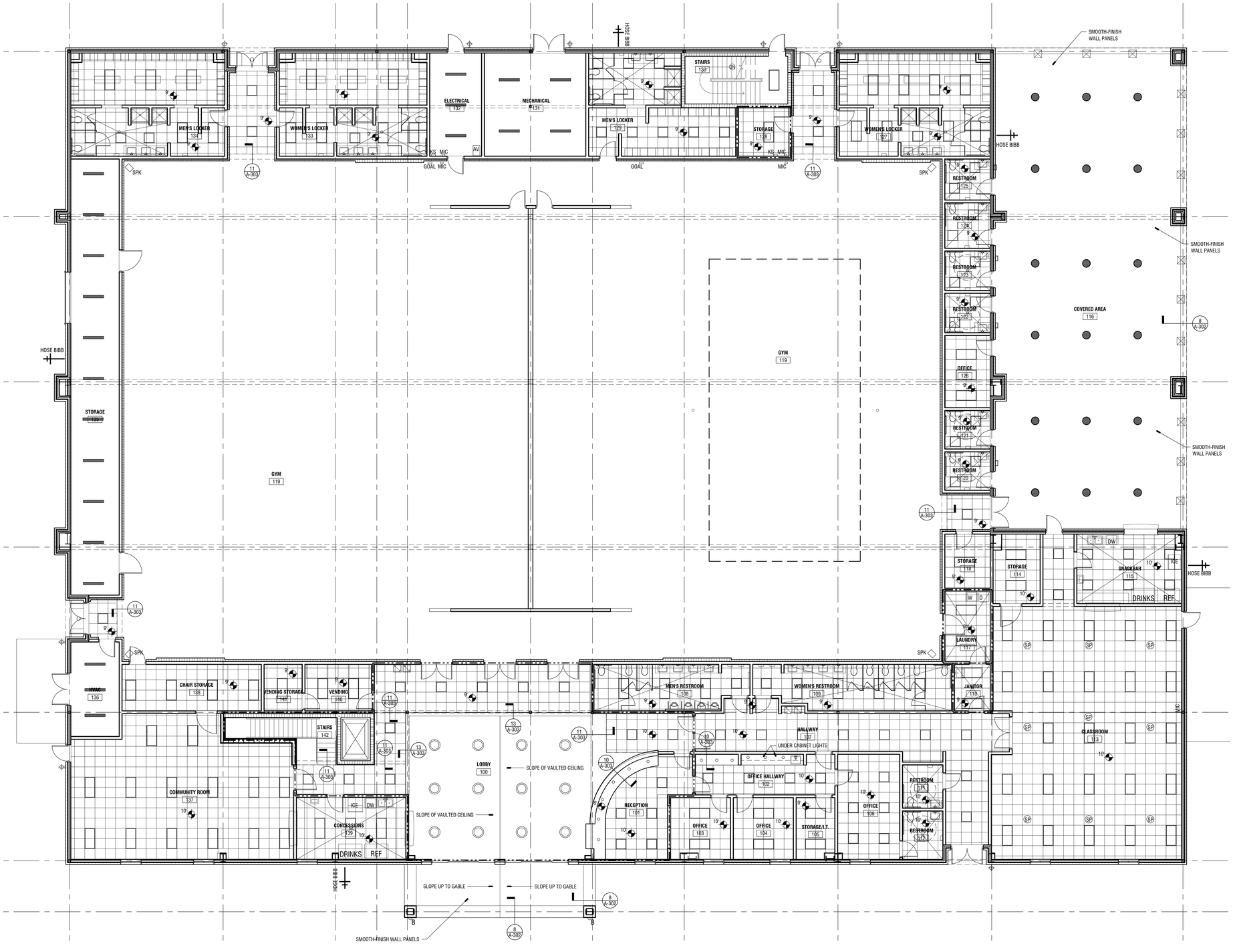
WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER

DALTON, GEORGIA

SHEET TITLE:
FIRST FLOOR DIMENSION PLAN

PRINTED:

NUMBER:
A-102



1 FIRST FLOOR RCP

1/8" = 1'-0"

2'X2' ACOUSTICAL CEILING TILE ON DROPPED GRID

NOTE: COORDINATE ALL FIXTURES WITH PAGES E-3 & E-4.

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STATE OF GEORGIA
BENJAMIN MERCER CARTER
CERTIFICATE NO. 000
REGISTERED ARCHITECT

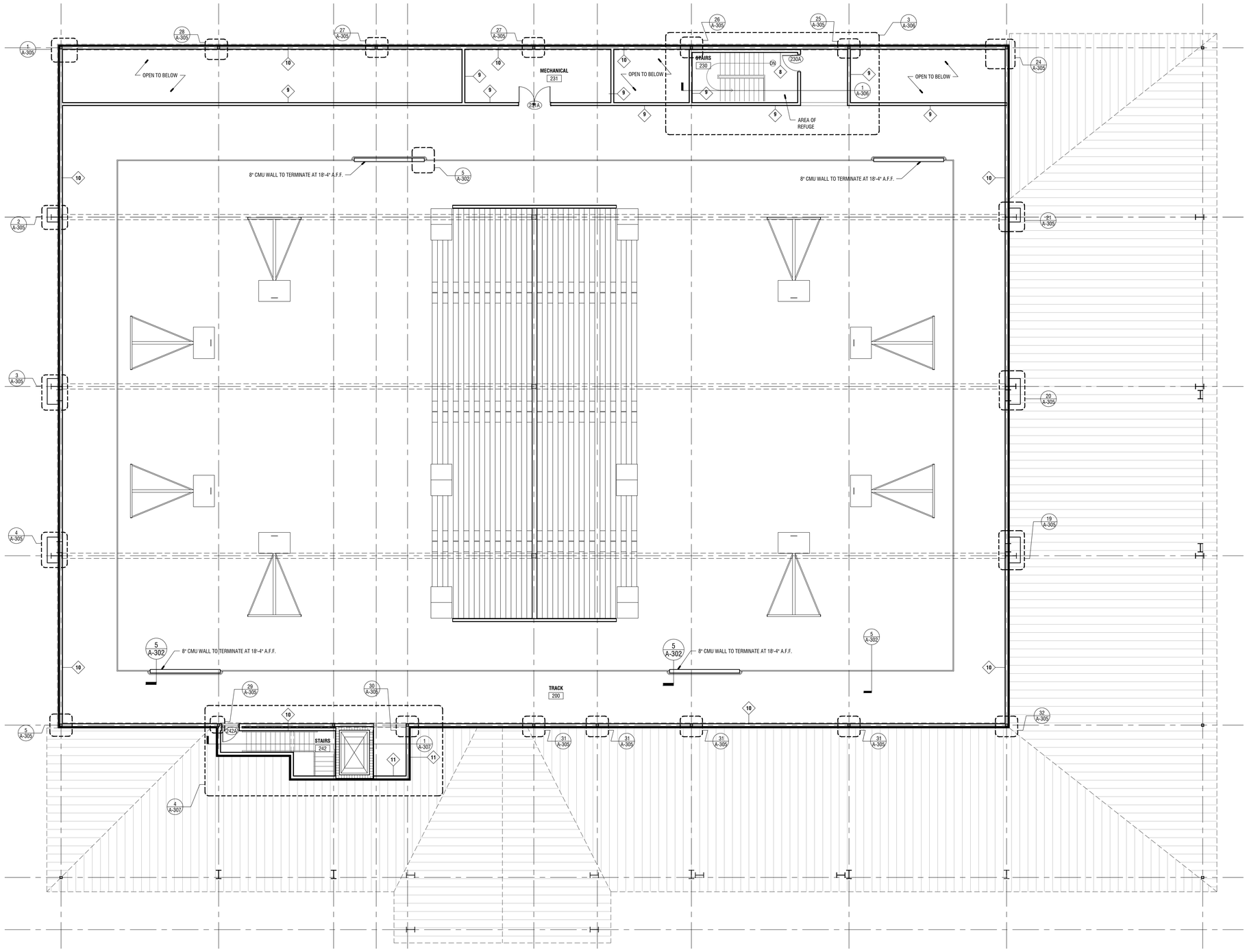
WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER

DALTON, GEORGIA

SHEET TITLE:
FIRST FLOOR REFLECTED CEILING PLAN

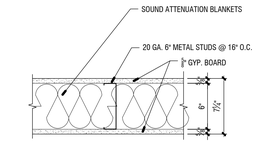
PRINTED:

NUMBER:
A-103

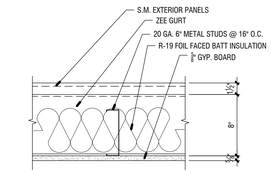


1 SECOND FLOOR PLAN

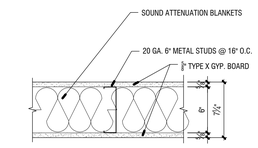
1/8" = 1'-0"



9 INTERIOR PARTITION
*SECOND FLOOR



10 EXTERIOR WALL
*SECOND FLOOR



11 INTERIOR PARTITION
*SECOND FLOOR FIREWALL

NOTE:

-PROVIDE A 3/4" UNDERCUT ON THE MECHANICAL & ELECTRICAL ROOM DOORS.

*DOORS TO HAVE ACCESS CONTROL CARD READER. ELEVATOR TO HAVE ACCESS CONTROL ENTRY & OPERATION.

DOOR SCHEDULE

DOOR NO.	DOOR SIZE	DOOR TYPE	DOOR	DOOR FINISH	FRAME	FRAME FINSH	RATING	REMARKS
230A	3'-0" x 7'-0"	G	WOOD	STAINED	H.M.	PAINTED		CLOSER
231A	6'-0" x 7'-0"	F	WOOD	STAINED	H.M.	PAINTED		
242A	3'-0" x 7'-0"	G	WOOD	STAINED	H.M.	PAINTED		CLOSER

ROOM FINISH SCHEDULE

ROOM NUM.	ROOM NAME	FLOOR	WALLS	CEILING	CROWN 1	BASE	NOTES
			FINISH	MATERIAL			
200	TRACK	RUBBER*	PAINTED	--		RUBBER	*SEE BELOW*
230	STAIRS	LVP	PAINTED	A.C.T.		RUBBER	--
231	MECHANICAL	CONC.	PAINTED	--		RUBBER	--
242	STAIRS	LVP	PAINTED	A.C.T.		RUBBER	--

* = TARKETT MULTI-FUNCTION SPORTS FLOORING

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SEAL

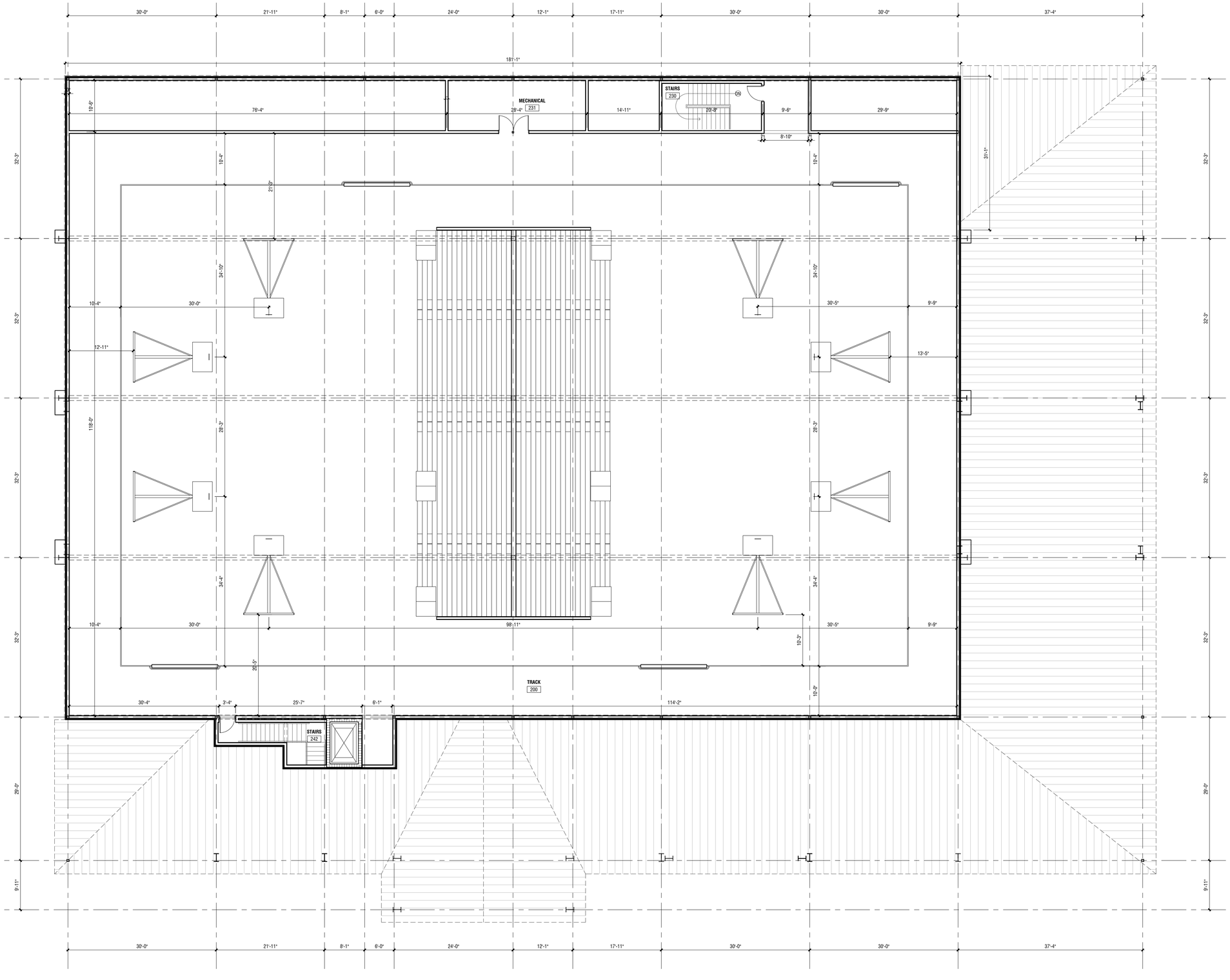
STATE OF GEORGIA
BENJAMIN MERCER HARRIS
CERTIFICATE NO. 024862
REGISTERED ARCHITECT

WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER
DALTON, GEORGIA

SHEET TITLE:
SECOND FLOOR

PRINTED:

NUMBER:
A-104



1 SECOND FLOOR DIMENSION PLAN

1/8" = 1'-0"

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REGISTERED ARCHITECT

WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER

DALTON, GEORGIA

SHEET TITLE:
SECOND FLOOR DIMENSION PLAN

PRINTED:

NUMBER:
A-105

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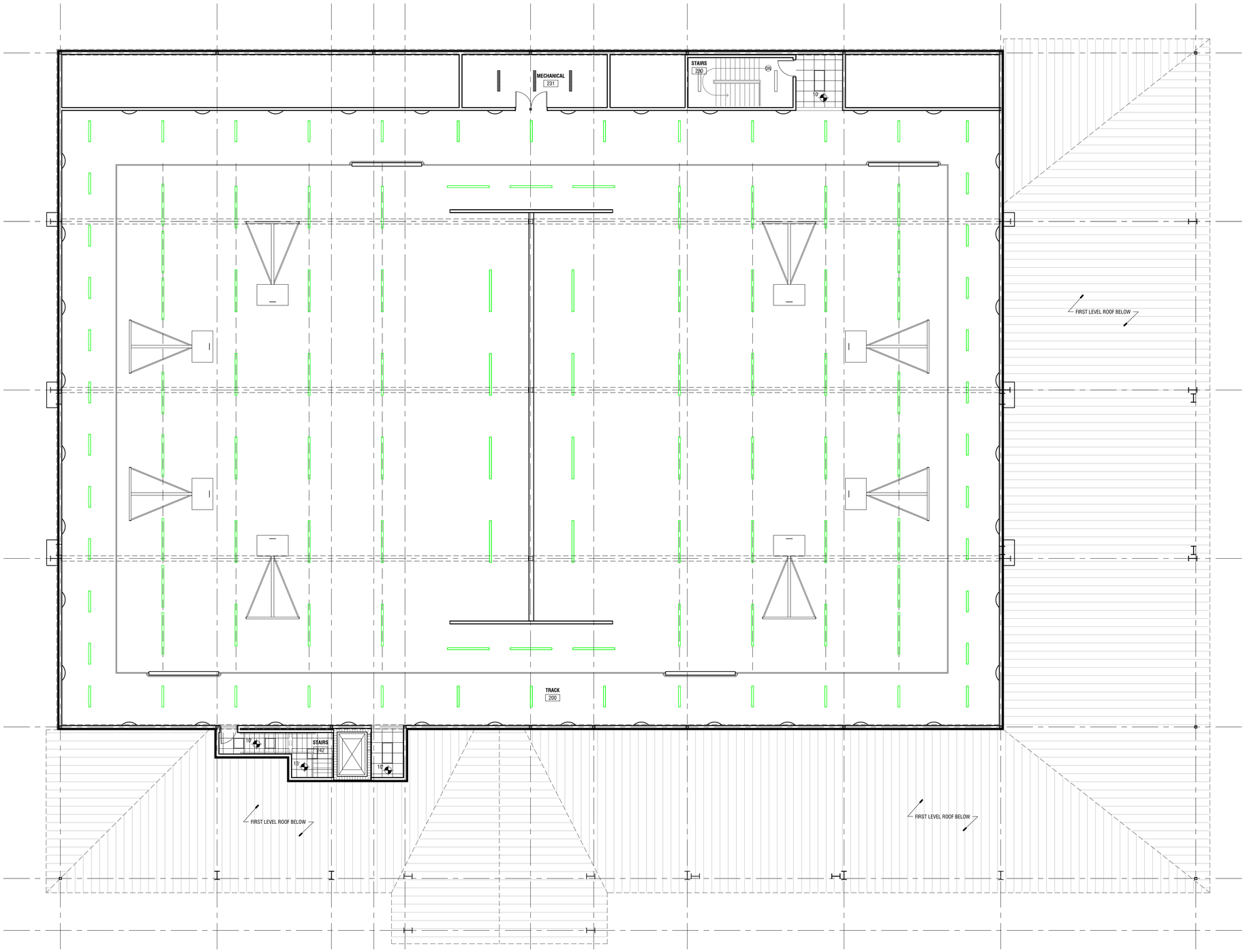

1 SECOND FLOOR RCP

1/8" = 1'-0"

2'X2' ACOUSTICAL CEILING TILE ON DROPPED GRID

NOTE: COORDINATE ALL FIXTURES WITH E-4.

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STATE OF GEORGIA
BENJAMIN MERCER CARTER
CERTIFICATE NO. 22-7
REGISTERED ARCHITECT

WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER

DALTON, GEORGIA

SHEET TITLE:
SECOND FLOOR REFLECTED CEILING PLAN

PRINTED:

NUMBER:
A-106

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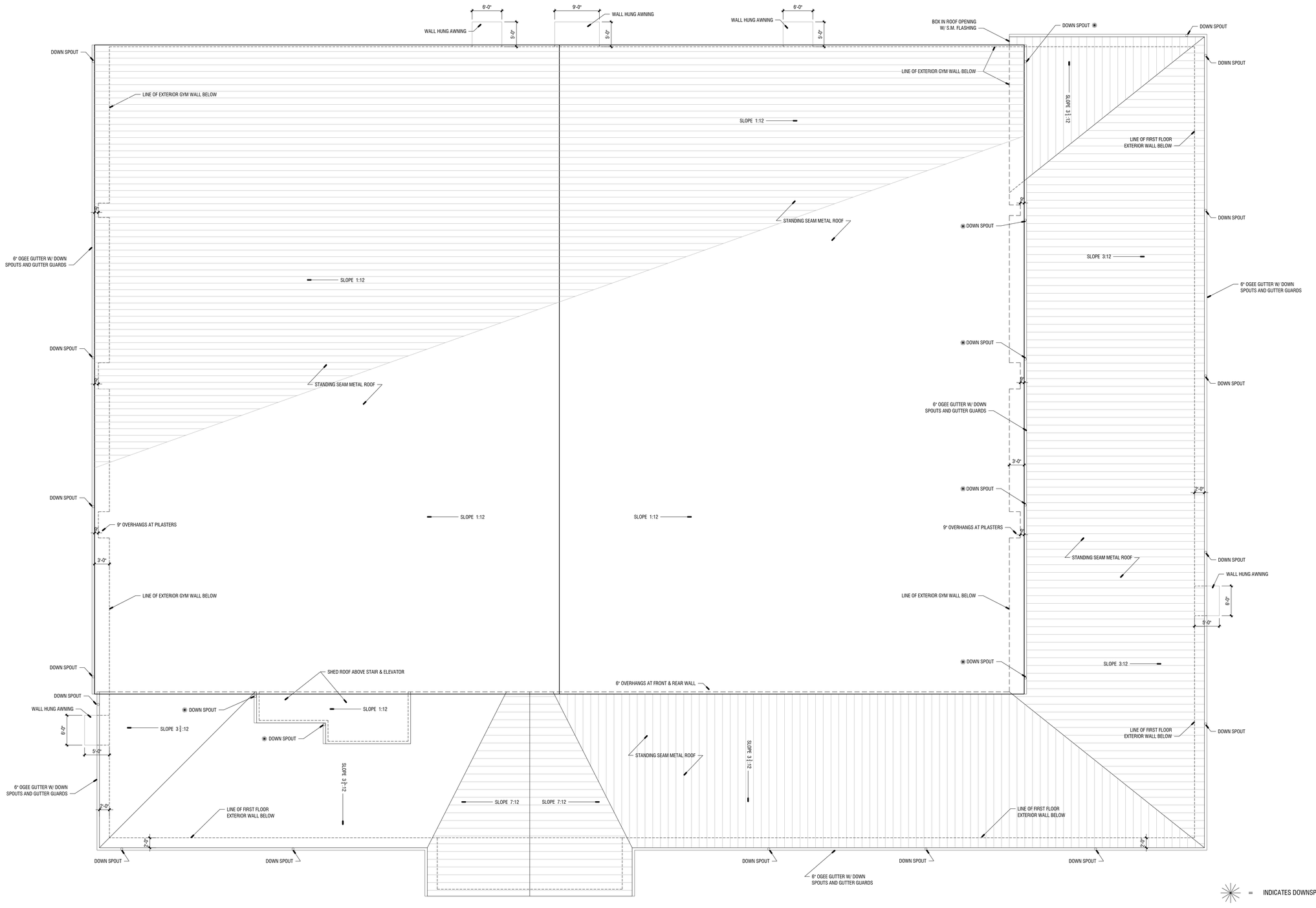

1 ROOF PLAN

1/8" = 1'-0"

✳ = INDICATES DOWNSPOUT TO DRAIN ON ROOF BELOW

NOTES:

-SEE WALL HUNG AWNING DETAILS SHEET A-310

-SUBMIT GUTTER AND DOWNSPOUT SHOP DRAWINGS FOR APPROVAL.

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STATE OF GEORGIA — BENJAMIN MERCER LAWTER — STATE I.D. NO. — REGISTERED ARCHITECT

WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER

DALTON, GEORGIA

SHEET TITLE: ROOF PLAN

PRINTED:

NUMBER: A-107

WHITFIELD COUNTY GYM PRINTED DATE: 10/14/20

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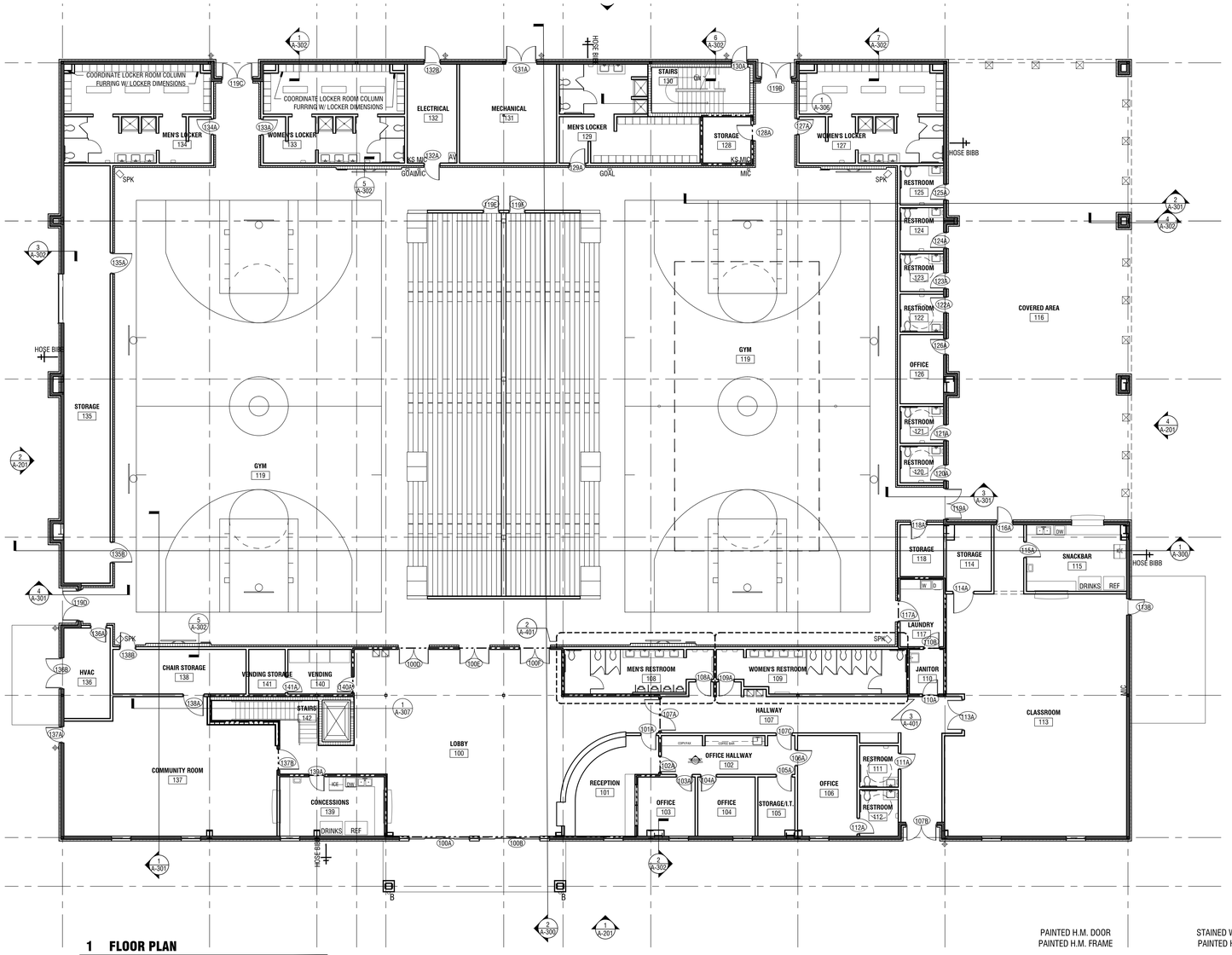


1 FLOOR PLAN

3/32" = 1'-0"

ROOM FINISH SCHEDULE

ROOM NUM.	ROOM NAME	FLOOR	WALLS FINISH	CEILING MATERIAL	CEILING HT.	BASE	NOTES
100	LOBBY	LVP	PAINTED	GYB/A.C.T.		RUBBER	1 HOUR
101	RECEPTION	LVP	PAINTED	A.C.T.		RUBBER	--
102	OFFICE HALLWAY	LVP	PAINTED	A.C.T.		RUBBER	--
103	OFFICE	LVP	PAINTED	A.C.T.		RUBBER	--
104	OFFICE	LVP	PAINTED	A.C.T.		RUBBER	--
105	STORAGE/I.T.	LVP	PAINTED	A.C.T.		RUBBER	--
106	OFFICE	LVP	PAINTED	A.C.T.		RUBBER	--
107	HALLWAY	LVP	PAINTED	A.C.T.		RUBBER	--
108	MEN'S RESTROOM	C.T.	C.T.	A.C.T.		C.T.	--
109	WOMEN'S RESTROOM	C.T.	C.T.	A.C.T.		C.T.	--
110	JANITOR	LVP	PAINTED	A.C.T.		RUBBER	1 HOUR
111	RESTROOM	C.T.	C.T.	A.C.T.		C.T.	--
112	RESTROOM	C.T.	C.T.	A.C.T.		C.T.	--
113	CLASSROOM	LVP	PAINTED	A.C.T.		RUBBER	--
114	STORAGE	LVP	PAINTED	A.C.T.		RUBBER	--
115	SNACK BAR	LVP	PAINTED	A.C.T.		RUBBER	--
116	COVERED AREA	CONC	--	METAL PANEL		--	--
117	LAUNDRY	CONC	PAINTED	A.C.T.		RUBBER	1 HOUR
118	STORAGE	CONC	PAINTED	A.C.T.		RUBBER	--
119	GYM	WOOD	PAINTED/BRICK	--		CMU	--
120	RESTROOM	C.T.	C.T.	A.C.T.		C.T.	--
121	RESTROOM	C.T.	C.T.	A.C.T.		C.T.	--
122	RESTROOM	C.T.	C.T.	A.C.T.		C.T.	--
123	RESTROOM	C.T.	C.T.	A.C.T.		C.T.	--
124	RESTROOM	C.T.	C.T.	A.C.T.		C.T.	--
125	RESTROOM	C.T.	C.T.	A.C.T.		C.T.	--
126	OFFICE	LVP	PAINTED	A.C.T.		RUBBER	--
127	WOMEN'S LOCKER	C.T.	C.T.	A.C.T.		C.T.	--
128	STORAGE	LVP	PAINTED	A.C.T.		RUBBER	1 HOUR
129	MEN'S LOCKER	C.T.	C.T.	A.C.T.		C.T.	--
130	STAIRS	RUBBER	PAINTED	A.C.T.		RUBBER	--
131	MECHANICAL	CONC	PAINTED	--		RUBBER	--
132	ELECTRICAL	CONC	PAINTED	--		RUBBER	--
133	WOMEN'S LOCKER	LVP	PAINTED	A.C.T.		RUBBER	--
134	MEN'S LOCKER	LVP	PAINTED	A.C.T.		RUBBER	--
135	STORAGE	S.C.	PAINTED	--		RUBBER	--
136	HVAC	CONC	PAINTED	--		RUBBER	--
137	COMMUNITY ROOM	LVP	PAINTED	A.C.T.		RUBBER	--
138	CHAIR STORAGE	LVP	PAINTED	A.C.T.		RUBBER	--
139	CONCESSIONS	LVP	PAINTED	A.C.T.		RUBBER	--
140	VENDING	LVP	PAINTED	A.C.T.		RUBBER	--
141	VENDING STORAGE	LVP	PAINTED	A.C.T.		RUBBER	--
142	STAIRS	RUBBER	PAINTED	A.C.T.		--	--

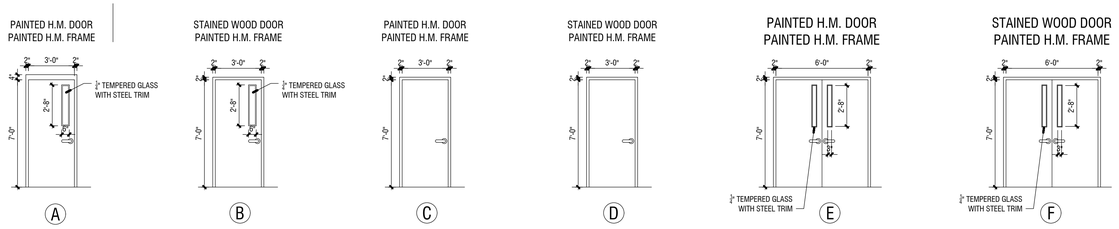
S.C. = SEALED CONCRETE

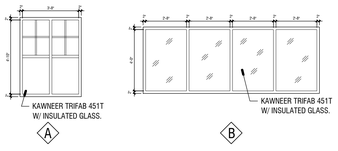
-ALL METAL PORTIONS OF STAIRS TO BE PRIMED AND PAINTED INCLUDING STRINGERS, LANDINGS, RAILINGS, BRACES, ETC.

-ALL EXPOSED METAL IN GYM 119 & COVERED AREA 116 TO BE PRIMED AND PAINTED.

DOOR SCHEDULE

DOOR NO.	DOOR SIZE	DOOR TYPE	DOOR	DOOR FINISH	FRAME	FRAME FINSH	RATING	REMARKS
100A	12'-0" x 7'-0"	G	ALUM.	FACTORY	ALUM.	FACTORY		SLIDING/STOREFRONT
100B	12'-0" x 7'-0"	G	ALUM.	FACTORY	ALUM.	FACTORY		SLIDING/STOREFRONT
100D	6'-0" x 7'-0"	F	WOOD	STAINED	H.M.	PAINTED	45 MIN.	PANIC/CLOSER
100E	6'-0" x 7'-0"	F	WOOD	STAINED	H.M.	PAINTED	45 MIN.	PANIC/CLOSER
100F	6'-0" x 7'-0"	F	WOOD	STAINED	H.M.	PAINTED	45 MIN.	PANIC/CLOSER
101A	3'-0" x 7'-0"	B	WOOD	STAINED	H.M.	PAINTED		
102A	3'-0" x 7'-0"	B	WOOD	STAINED	H.M.	PAINTED	45 MIN.	CLOSER
103A	3'-0" x 7'-0"	B	WOOD	STAINED	H.M.	PAINTED		
104A	3'-0" x 7'-0"	B	WOOD	STAINED	H.M.	PAINTED		
105A	3'-0" x 7'-0"	B	WOOD	STAINED	H.M.	PAINTED		
106A	3'-0" x 7'-0"	B	WOOD	STAINED	H.M.	PAINTED		
107A	6'-0" x 7'-0"	F	WOOD	STAINED	H.M.	PAINTED	45 MIN.	DUAL EGRESS
107B	6'-0" x 7'-0"	J	H.M.	PAINTED	H.M.	PAINTED		PANIC/CLOSER
107C	3'-0" x 7'-0"	D	WOOD	STAINED	H.M.	PAINTED		
108A	3'-0" x 7'-0"	D	WOOD	STAINED	H.M.	PAINTED		PUSH/PULL/CLOSER
109A	3'-0" x 7'-0"	D	WOOD	STAINED	H.M.	PAINTED		PUSH/PULL/CLOSER
110A	3'-0" x 7'-0"	D	WOOD	STAINED	H.M.	PAINTED	20 MIN.	CLOSER
110B	3'-0" x 7'-0"	D	WOOD	STAINED	H.M.	PAINTED	20 MIN.	CLOSER
111A	3'-0" x 7'-0"	D	WOOD	STAINED	H.M.	PAINTED		
112A	3'-0" x 7'-0"	D	WOOD	STAINED	H.M.	PAINTED		
113A	6'-0" x 7'-0"	F	WOOD	STAINED	H.M.	PAINTED		PANIC/CLOSER
113B	3'-0" x 7'-0"	C	H.M.	PAINTED	H.M.	PAINTED		PANIC/CLOSER
114A	4'-0" x 7'-0"	D	WOOD	STAINED	H.M.	PAINTED		
115A	3'-0" x 7'-0"	B	WOOD	STAINED	H.M.	PAINTED		
116A	3'-0" x 7'-0"	A	H.M.	PAINTED	H.M.	PAINTED		PANIC/CLOSER
117A	4'-0" x 7'-0"	D	WOOD	STAINED	H.M.	PAINTED	20 MIN.	CLOSER
118A	3'-0" x 7'-0"	D	WOOD	STAINED	H.M.	PAINTED		
119A	6'-0" x 7'-0"	J	H.M.	PAINTED	H.M.	PAINTED		
119B	6'-0" x 7'-0"	E	H.M.	PAINTED	H.M.	PAINTED		
119C	6'-0" x 7'-0"	E	H.M.	PAINTED	H.M.	PAINTED		
119D	6'-0" x 7'-0"	E	H.M.	PAINTED	H.M.	PAINTED		
119E	3'-0" x 7'-0"	D	WOOD	STAINED	H.M.	PAINTED		VERIFY HT.
119F	3'-0" x 7'-0"	D	WOOD	STAINED	H.M.	PAINTED		VERIFY HT.
120A	3'-0" x 7'-0"	C	H.M.	PAINTED	H.M.	PAINTED		
121A	3'-0" x 7'-0"	C	H.M.	PAINTED	H.M.	PAINTED		
122A	3'-0" x 7'-0"	C	H.M.	PAINTED	H.M.	PAINTED		
123A	3'-0" x 7'-0"	C	H.M.	PAINTED	H.M.	PAINTED		
124A	3'-0" x 7'-0"	C	H.M.	PAINTED	H.M.	PAINTED		
125A	3'-0" x 7'-0"	C	H.M.	PAINTED	H.M.	PAINTED		
126A	3'-0" x 7'-0"	C	H.M.	PAINTED	H.M.	PAINTED		
127A	3'-0" x 7'-0"	D	WOOD	STAINED	H.M.	PAINTED		CLOSER
128A	3'-0" x 7'-0"	D	WOOD	STAINED	H.M.	PAINTED	20 MIN.	
129A	3'-0" x 7'-0"	D	WOOD	STAINED	H.M.	PAINTED		CLOSER
130A	3'-0" x 7'-0"	C	WOOD	STAINED	H.M.	PAINTED	45 MIN.	PANIC/CLOSER
131A	6'-0" x 7'-0"	E	H.M.	PAINTED	H.M.	PAINTED		
132A	3'-0" x 7'-0"	D	WOOD	STAINED	H.M.	PAINTED		PANIC/CLOSER
132B	3'-0" x 7'-0"	C	H.M.	PAINTED	H.M.	PAINTED		PANIC/CLOSER
133A	3'-0" x 7'-0"	D	WOOD	STAINED	H.M.	PAINTED		CLOSER
134A	3'-0" x 7'-0"	D	WOOD	STAINED	H.M.	PAINTED		CLOSER
135A	4'-0" x 7'-0"	D	WOOD	STAINED	H.M.	PAINTED		CLOSER
135B	4'-0" x 7'-0"	D	WOOD	STAINED	H.M.	PAINTED		CLOSER
136A	3'-0" x 7'-0"	D	WOOD	STAINED	H.M.	PAINTED		CLOSER
136B	6'-0" x 7'-0"	E	H.M.	PAINTED	H.M.	PAINTED		CLOSER
137A	3'-0" x 7'-0"	A	H.M.	PAINTED	H.M.	PAINTED		PANIC/CLOSER
137B	4'-0" x 7'-0"	B	WOOD	STAINED	H.M.	PAINTED	45 MIN.	PANIC/CLOSER
138A	4'-0" x 7'-0"	D	WOOD	STAINED	H.M.	PAINTED		
138B	3'-0" x 7'-0"	D	WOOD	STAINED	H.M.	PAINTED		
139A	3'-0" x 7'-0"	B	WOOD	STAINED	H.M.	PAINTED	45 MIN.	CLOSER
140A	3'-0" x 7'-0"	B	WOOD	STAINED	H.M.	PAINTED	45 MIN.	CLOSER
141A	3'-0" x 7'-0"	D	WOOD	STAINED	H.M.	PAINTED		





GLASS SCHEDULE

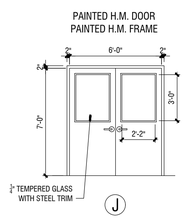
MARK	TYPE	SILL HT.	DETAIL SILL	DETAIL HEAD	DETAIL JAMB	REMARKS
F.F. FIRST FLOOR						
1.1	A	2'-6"	9/A-303	7/A-303	8/A-303	--
1.2	A	2'-6"	9/A-303	7/A-303	8/A-303	--
1.3	A	2'-6"	9/A-303	7/A-303	8/A-303	--
1.4	A	2'-6"	9/A-303	7/A-303	8/A-303	--
1.5	A	2'-6"	9/A-303	7/A-303	8/A-303	--
1.6	A	2'-6"	9/A-303	7/A-303	8/A-303	--
1.7	A	2'-6"	9/A-303	7/A-303	8/A-303	--
1.8	A	2'-6"	9/A-303	7/A-303	8/A-303	--
1.9	A	2'-6"	9/A-303	7/A-303	8/A-303	--
1.10	B	3'-6"	5/A-303	5/A-303	6/A-303	FIXED

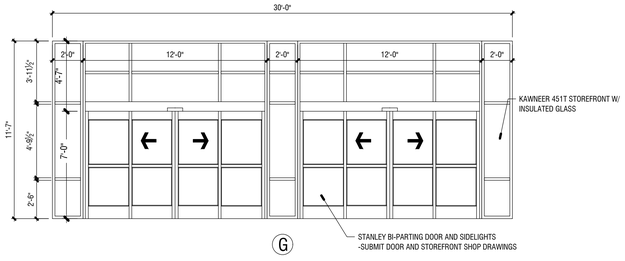
NOTE = SEE SHEETS A-201/A-401 FOR GLASS MARKS

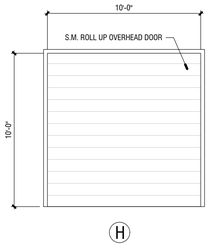
NOTE:

-PROVIDE A 3/4" UNDERCUT ON THE MECHANICAL & ELECTRICAL ROOM DOORS.

*DOORS TO HAVE ACCESS CONTROL CARD READER. ELEVATOR TO HAVE ACCESS CONTROL ENTRY & OPERATION.







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STATE OF GEORGIA BENJAMIN MERCER CARTER GEORGIA REGISTERED ARCHITECT

WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER

DALTON, GEORGIA

SHEET TITLE: SCHEDULES AND DETAILS

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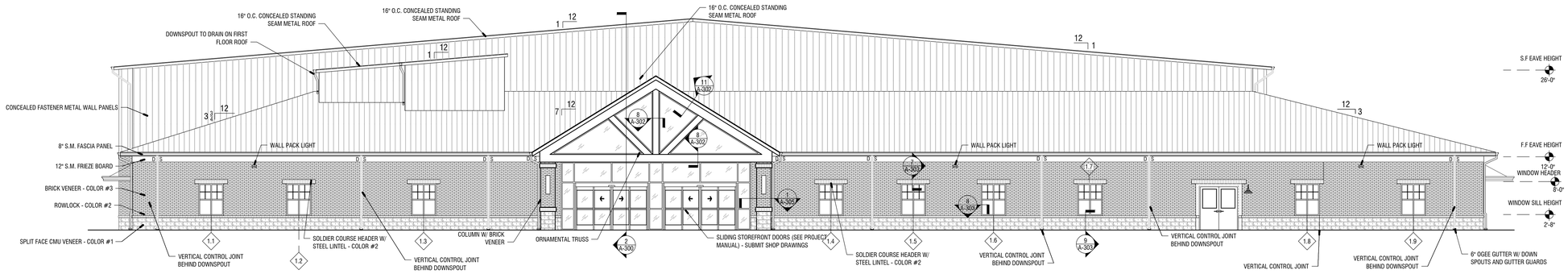
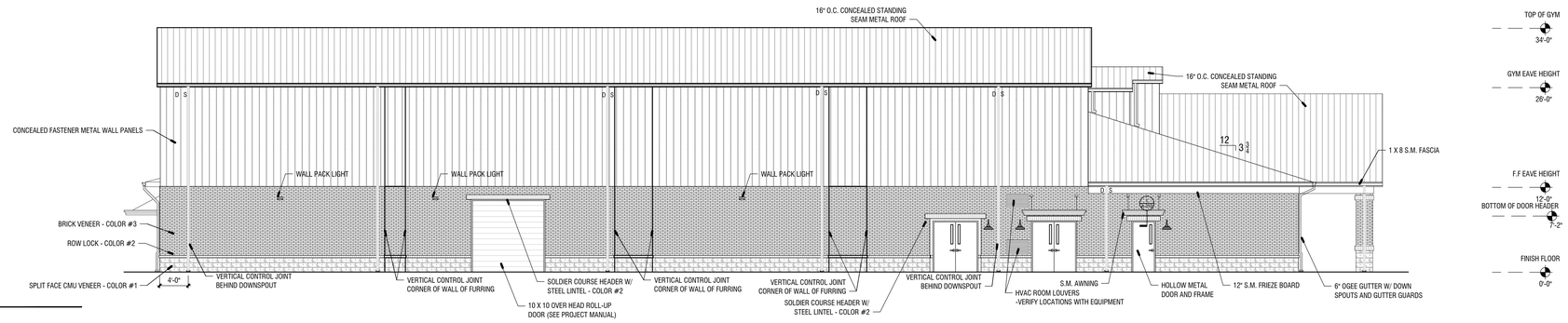
NUMBER: A-108



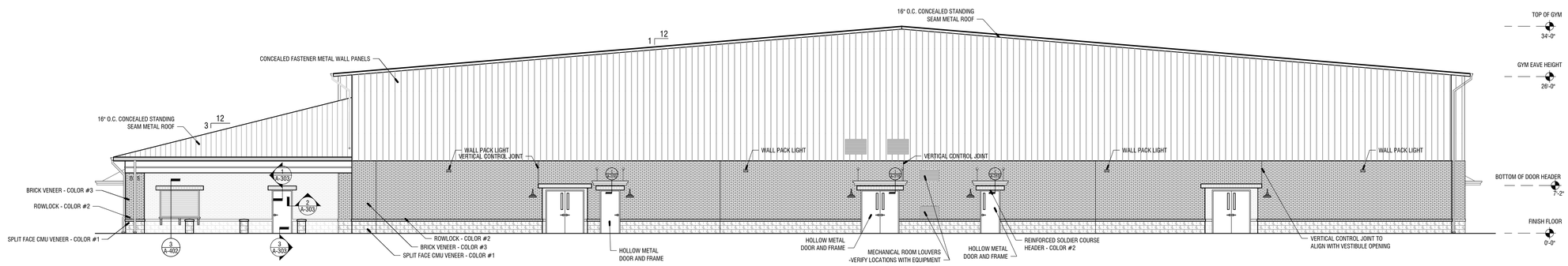
1 FRONT ELEVATION

1/8" = 1'-0"



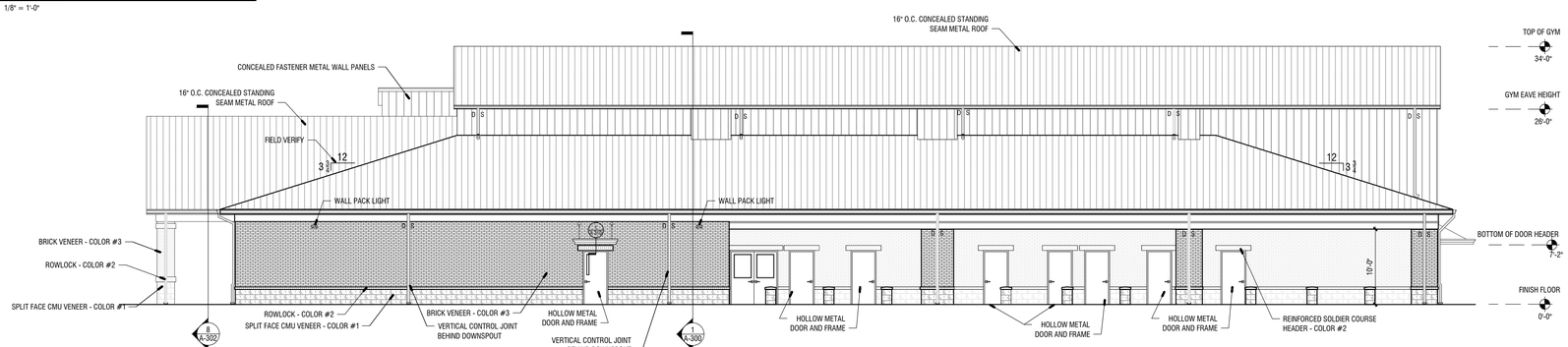
2 LEFT ELEVATION

1/8" = 1'-0"



3 REAR ELEVATION

1/8" = 1'-0"



4 RIGHT ELEVATION

1/8" = 1'-0"

NOTE: FLASHING AND WEEPHOLES IN MASONRY VENEER

1. FLASHING AND WEEPHOLES SHALL BE LOCATED IN THE FIRST COURSE OF MASONRY ABOVE FINISHED GROUND LEVEL ABOVE THE FOUNDATION WALL OR SLAB, AND OTHER POINTS OF SUPPORT, INCLUDING STRUCTURAL FLOORS, SHELF ANGLES, AND LINTELS WHERE ANCHORED VENEERS ARE USED. (2000 INTERNATIONAL BUILDING CODE - SECTION 1405.3.2)

2. WEEP HOLES PROVIDED IN THE OUTSIDE WYTHE OF MASONRY WALLS SHALL BE AT A MAXIMUM SPACING OF 33 INCHES ON CENTER. WEEP HOLES SHALL NOT BE LESS THAN $\frac{3}{16}$" IN DIAMETER. (2018 INTERNATIONAL BUILDING CODE - SECTION - 2104.1.8)

3. FLASHING AT GRADE LEVEL TO BE 40 MIL NEOPRENE FLASHING.

NOTES:

-SUBMIT SHOP DRAWINGS FOR ALL WINDOWS, SILLS, HEADERS, PARAPETS, FLASHING, GUTTERS, DOWNSPOUTS, ETC.

-ALL WINDOWS TO HAVE SILL FLASHING W/ END DAMS.

-SEE NOTE IN MANUAL CONCERNING VERTICAL CONTROL AND EXPANSION JOINTS IN MASONRY. SUBMIT SHOP DRAWINGS SHOWING ALL JOINTS. CONDUCT MEETING PRIOR TO BEGINNING ALL MASONRY WORK.

-ALL GUTTERS AND DOWN SPOUTS AND GUTTER GUARDS TO BE ALUMINUM WITH FACTORY BAKED-ENAMEL FINISH WITH CONCEALED SPLICE JOINTS. COLOR OF DOWNSPOUTS AND COLOR OF GUTTERS TO BE SELECTED (MAY BE TWO COLORS). GUTTERS TO MATCH PROFILES SHOWN AND DOWN SPOUTS TO BE 4" DIAMETER ROUND. GUTTERS AND DOWN SPOUTS TO BE COMPLETE ENGINEERED RAIN/WATER HANDLING SYSTEM WITH APPROPRIATE POSITIVE DRAINAGE, DOWN SPOUTS, WALL ANCHORS, AND OTHER COMPONENTS NECESSARY FOR COMPLETE AND OPERABLE SYSTEM. DOWN SPOUTS TO BE ANCHORED TO BUILDING IN A MANNER THAT PROVIDES ADEQUATE STABILITY. SUBMIT ANCHORS FOR APPROVAL. COLOR TO BE SELECTED. SUBMIT COLOR CHART

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STATE OF GEORGIA — BENJAMIN MERCER BARKER — CERTIFICATE NO. 0001 — REGISTERED ARCHITECT

WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER

DALTON, GEORGIA

SHEET TITLE: EXTERIOR ELEVATIONS

PRINTED:

NUMBER: A-201

WHITFIELD COUNTY GYM PRINTED DATE: 10/14/20

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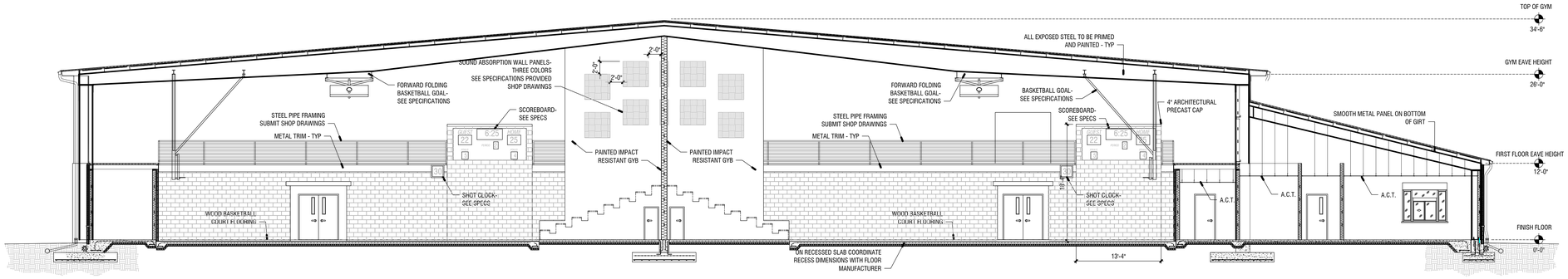
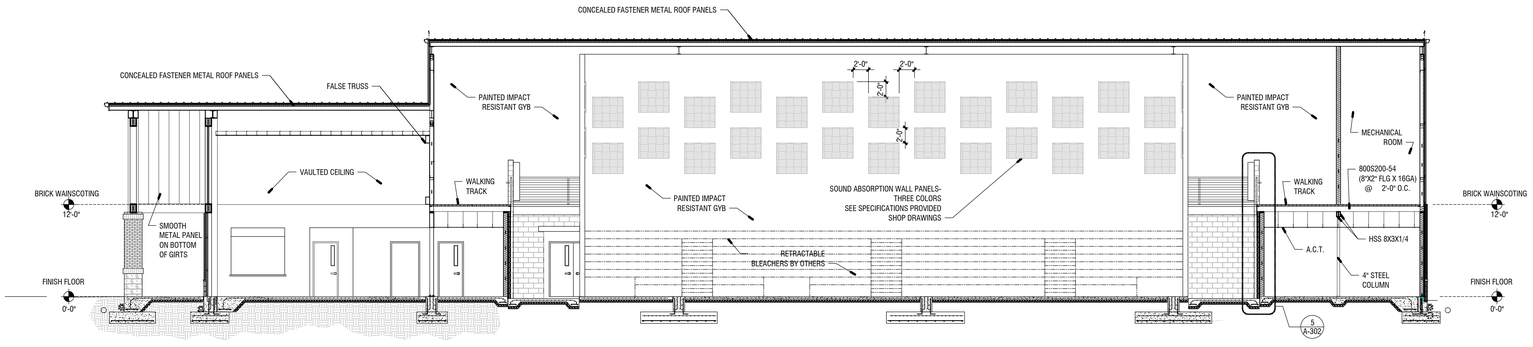


1 LONGITUDINAL SECTION

1/8" = 1'-0"



2 TRANSVERS SECTION

1/8" = 1'-0"

NOTES:

1. ALL EXPOSED RIGID FRAMES, PURLINS, METAL BRACING, STRAPS, ETC. TO BE PRIMED AND PAINTED.
2. PROVIDE BUTLER, OR EQUAL, TBS INSULATION SYSTEM.
3. SLAB AT GYMNASIUM TO BE LOWERED 3" BASED ON GYM FLOORING SPECIFIED. COORDINATE GYM FLOOR ELEVATION W/ ACTUAL FLOORING HEIGHT TO BE USED.

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WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER

DALTON, GEORGIA

SHEET TITLE: BUILDING SECTIONS

PRINTED:

NUMBER: A-300

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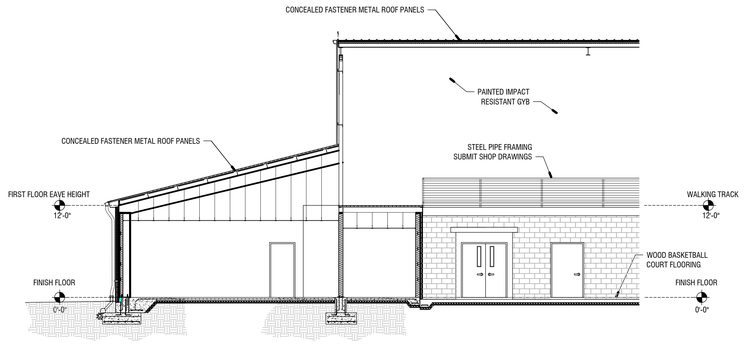
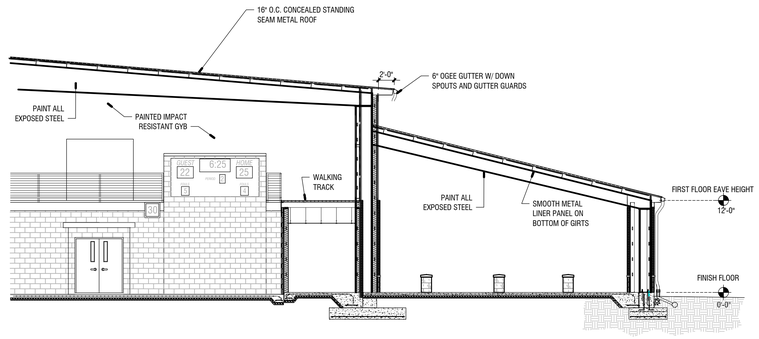


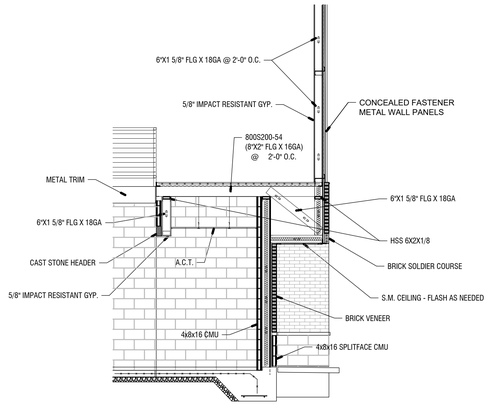
1 BUILDING SECTION

1/8" = 1'-0"



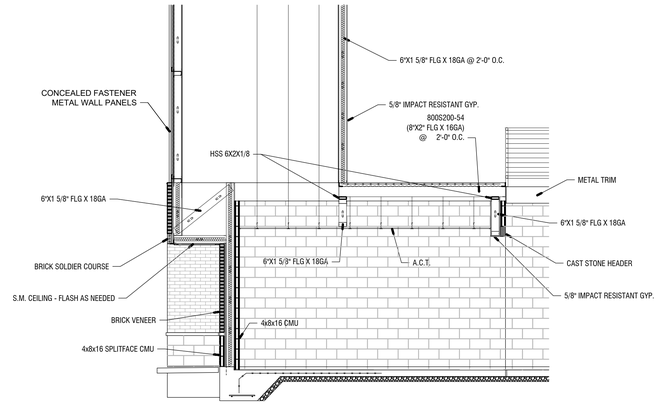
2 COVERED PORCH SECTION

1/8" = 1'-0"



3 BUILDING SECTION 2

1/4" = 1'-0"



4 BUILDING SECTION 3

1/4" = 1'-0"

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CERTIFICATE NO. 0[illegible]
REGISTERED ARCHITECT

WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER

DALTON, GEORGIA

SHEET TITLE:
BUILDING SECTIONS

PRINTED:

NUMBER:
A-301

DATE: 10/14/20

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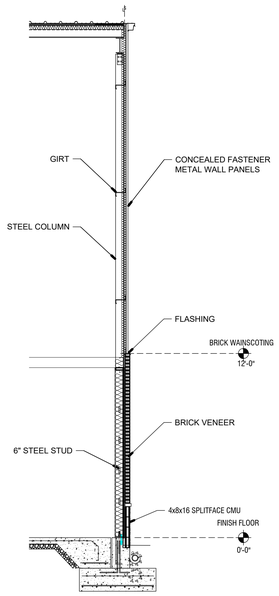
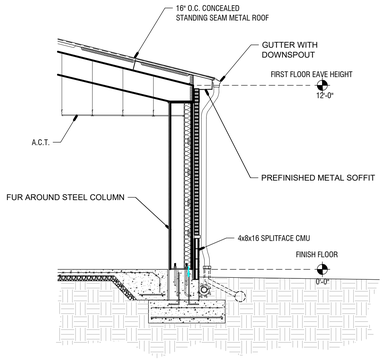


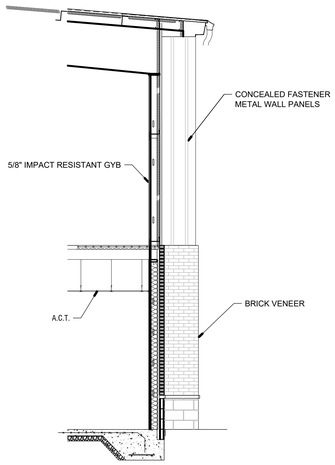
1 WALL SECTION 1

1/4" = 1'-0"



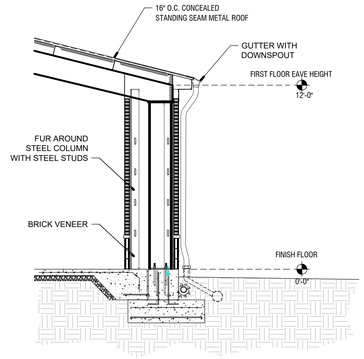
2 WALL SECTION 2

1/4" = 1'-0"



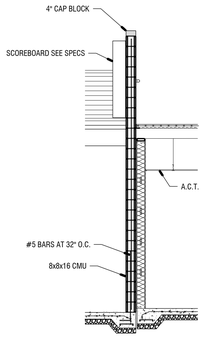
3 WALL SECTION 3

1/4" = 1'-0"



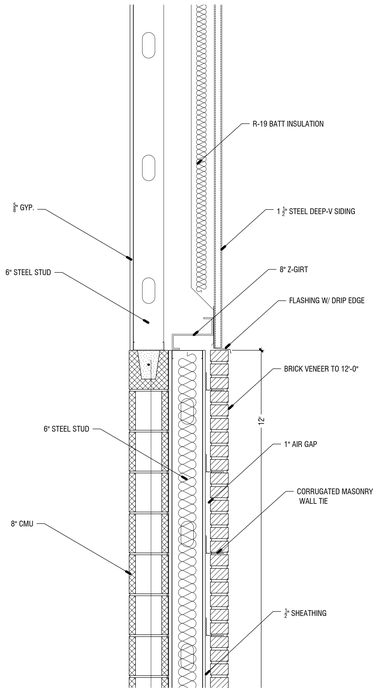
4 COLUMN SECTION 1

1/4" = 1'-0"



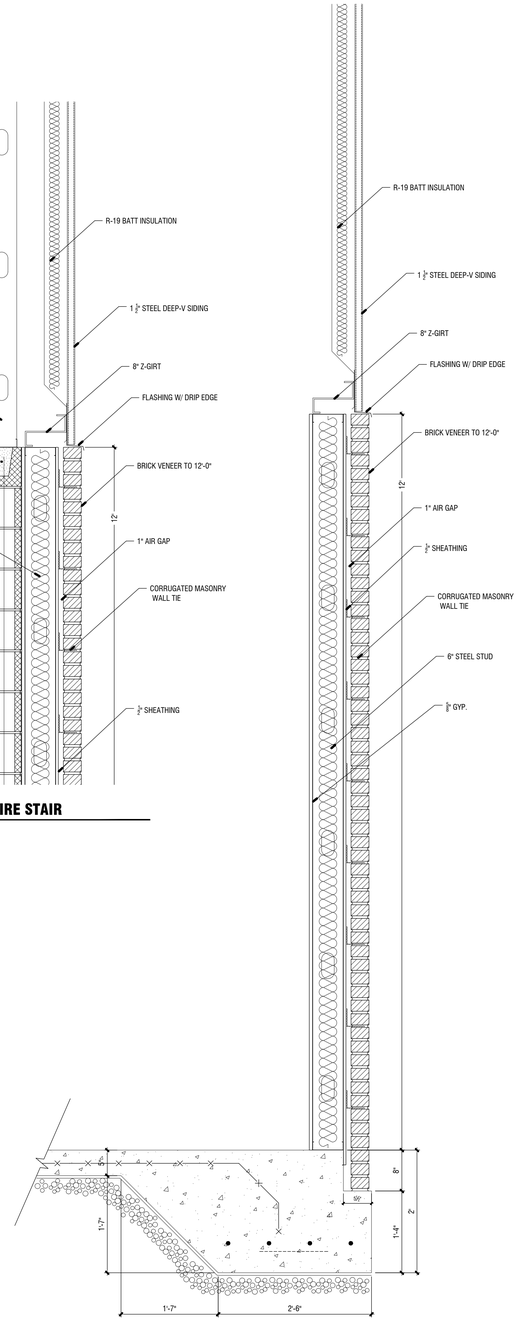
5 8IN CMU WALL SCOREBOAD MOUNTING WALL

1/4" = 1'-0"



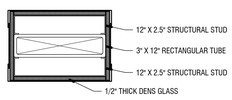
6 REAR WALL AT FIRE STAIR

1" = 1'-0"



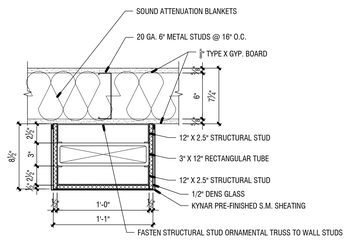
7 SIDE WALL SECTION

1" = 1'-0"



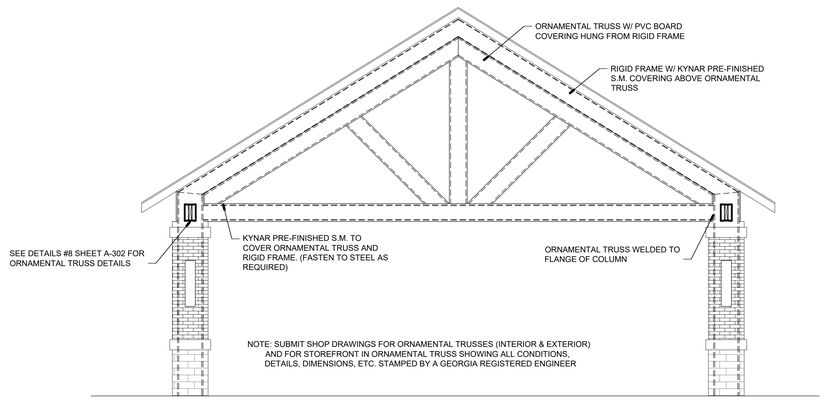
8 EXTERIOR ORNAMENTAL TRUSS SECTION

1 1/2" = 1'-0"



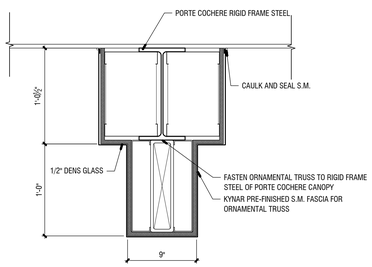
9 INTERIOR ORNAMENTAL TRUSS SECTION

1 1/2" = 1'-0"



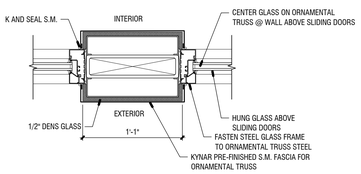
10 PORCH TRUSS SECTION

1/4" = 1'-0"



11 ORNAMENTAL TRUSS TO RIGID FRAME

1 1/2" = 1'-0"



12 ORNAMENTAL TRUSS WITH GLASS AT WALL

1 1/2" = 1'-0"

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BENJAMIN MERCER CARTER
CERTIFICATE NO. 025
REGISTERED ARCHITECT

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DALTON, GEORGIA

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WALL SECTIONS AND DETAILS

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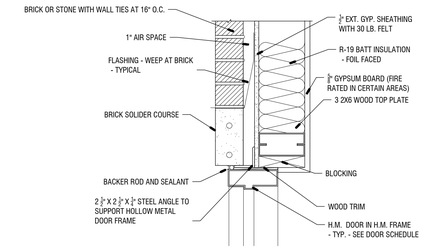
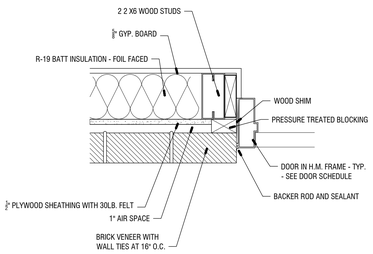
NUMBER:
A-302



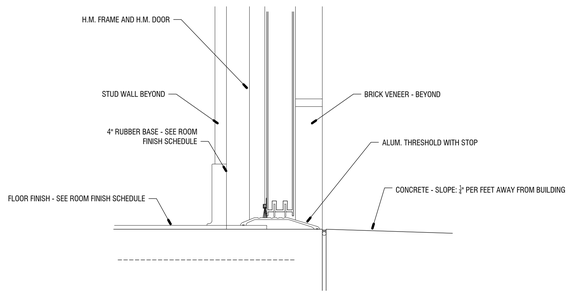
1 EXTERIOR DOOR HEAD - TYPICAL

1 1/2" = 1'-0"



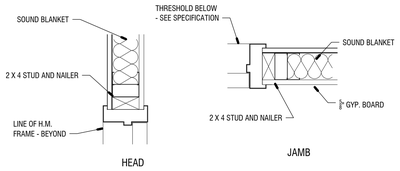
2 EXTERIOR DOOR JAMB - TYPICAL

1 1/2" = 1'-0"



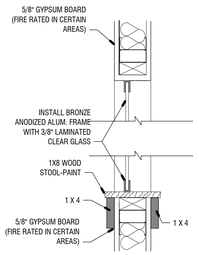
3 EXTERIOR DOOR THRESHOLD - TYPICAL

1 1/2" = 1'-0"



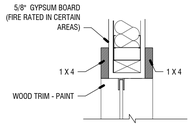
4 INTERIOR DOOR HEAD & JAMB

1 1/2" = 1'-0"



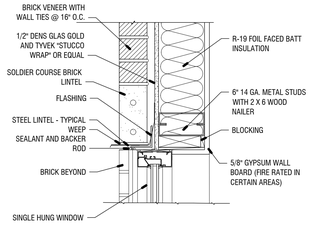
5 INTERIOR WINDOW HEAD & SILL

1 1/2" = 1'-0"



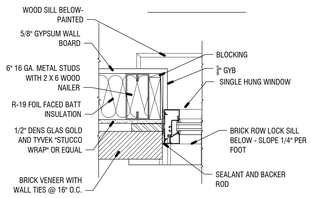
6 INTERIOR WINDOW JAMB

1 1/2" = 1'-0"



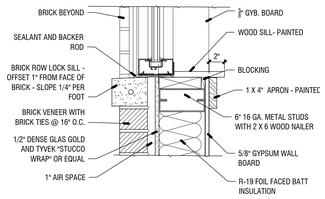
7 WINDOW HEAD - TYPICAL

1 1/2" = 1'-0"



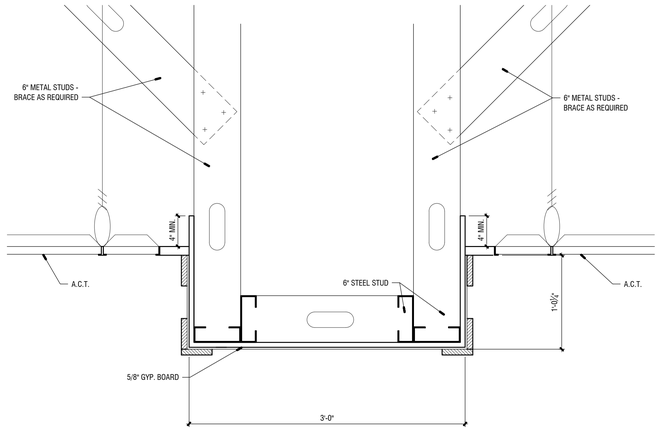
8 WINDOW JAMB - TYPICAL

1 1/2" = 1'-0"



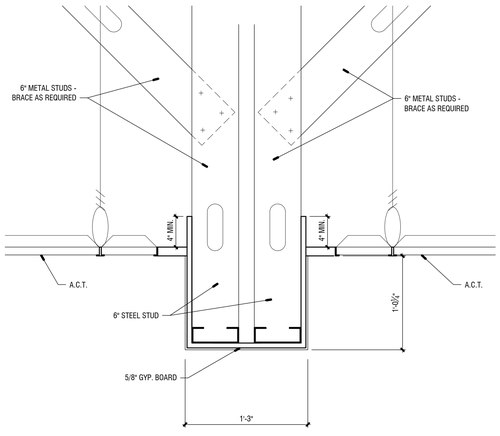
9 WINDOW SILL

1 1/2" = 1'-0"



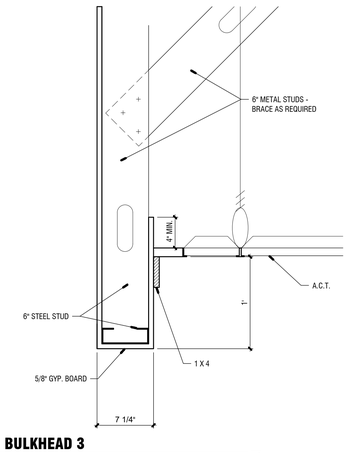
10 BULKHEAD 1

1 1/2" = 1'-0"



11 BULKHEAD 2

1 1/2" = 1'-0"



13 BULKHEAD 3

1 1/2" = 1'-0"

NOTE: SUBMIT COMPLETE, ENGINEERED, DETAILED, DIMENSIONED STEEL STUD DRAWINGS FOR THE ENTIRE BUILDING. SHOW ALL SIZES, GAUGES, BRACING, SUPPORT, HEADERS, JAMBS, SILLS, ETC. FOR ALL WALLS, FRAMED OPENINGS, SOFFITS, AND ALL OTHER BUILDING ELEMENTS.

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WHITFIELD COUNTY GYM PRINTED DATE: 10/14/20

Oct 14, 2020 | T:\SHARED CAD\Projects 2019\Whitfield County Gym\WHITFIELD COUNTY GYM\Sheets\A-303 DOOR & WINDOW DETAILS.dwg

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WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER

DALTON, GEORGIA

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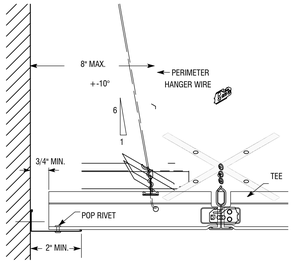
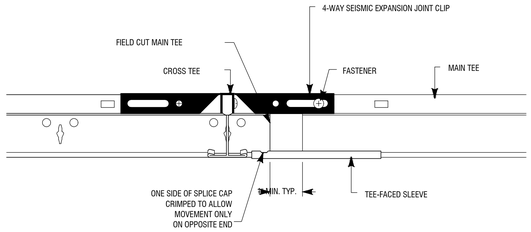
PRINTED:

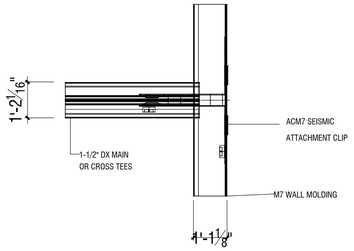
NUMBER: A-303



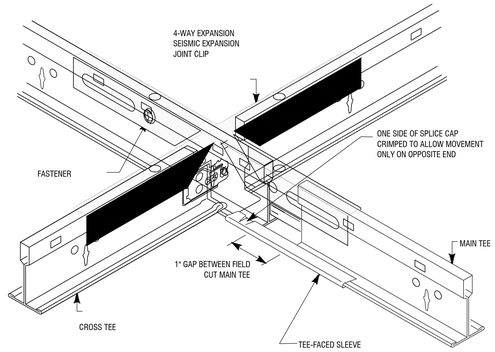
5 WALL MOLDING FIXED
1/2" = 1'-0"



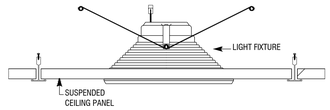
3 EXPANSION JOINT CLIP
1/2" = 1'-0"



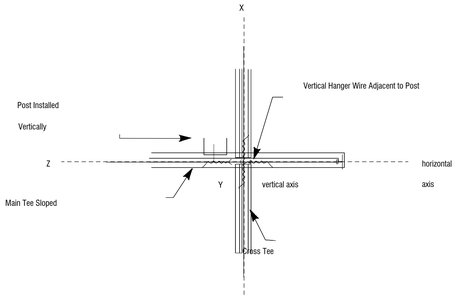
2 CLIP-FLOATING AT WALL
1/2" = 1'-0"



1 ATC 4-WAY CLIP
1/2" = 1'-0"



4 RECESSED CAN LIGHT MOUNTING
1/2" = 1'-0"



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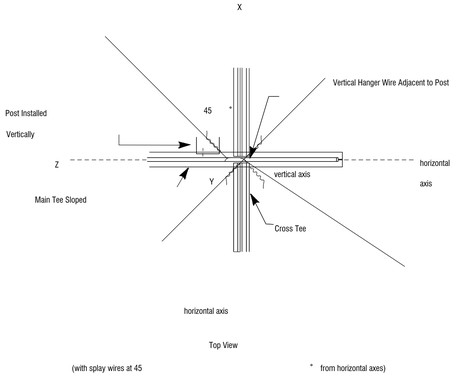
to verify the suitability of the design for a given structure.

6 HANGER WIRE-HORIZONTAL AXIS TOP VIEW
1/2" = 1'-0"



UNITED STATES GYPSUM COMPANY
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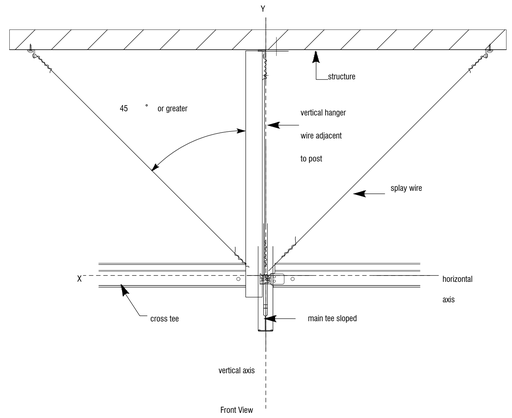
to verify the suitability of the design for a given structure.

7 HANGER WIRE-HORIZONTAL AXIS TOP VIEW AT 45
1/2" = 1'-0"



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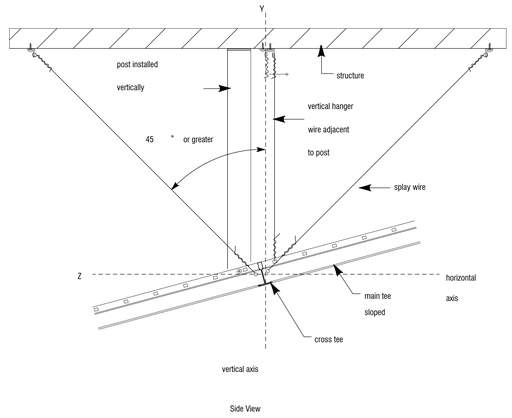
to verify the suitability of the design for a given structure.

8 HANGER WIRE-VERTICAL AXIS FRONT VIEW
1/2" = 1'-0"



UNITED STATES GYPSUM COMPANY
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to verify the suitability of the design for a given structure.

9 HANGER WIRE-VERTICAL AXIS SIDE VIEW
1/2" = 1'-0"

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WHITFIELD COUNTY GYM PRINTED DATE: 10/14/20

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BENJAMIN MERCER LAWRIE
CERTIFICATE NO. 026-10
REGISTERED ARCHITECT

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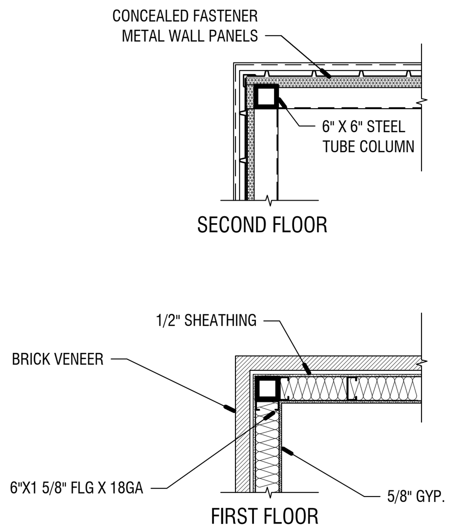
DALTON, GEORGIA

SHEET TITLE:
CEILING GRID DETAILS

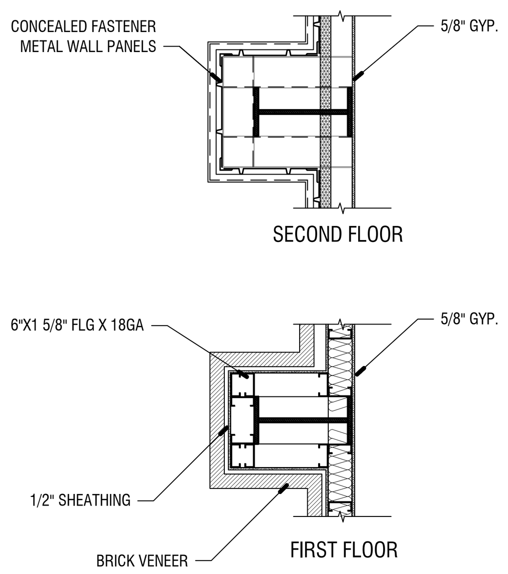
PRINTED:

NUMBER:
A-304



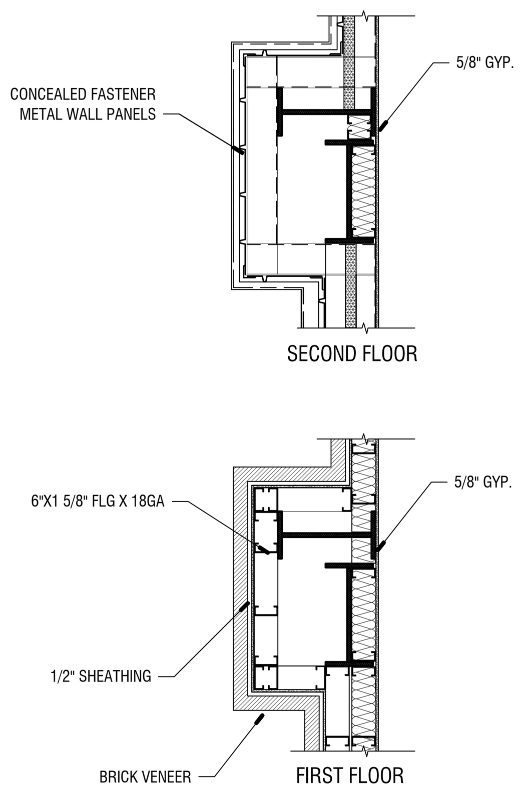
1 COLUMN FURRING DETAIL 1

3/8" = 1'-0"



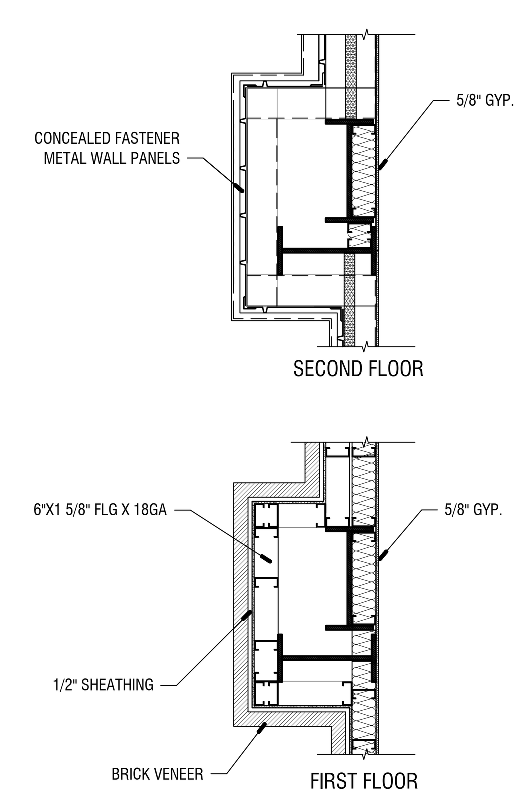
2 COLUMN FURRING DETAIL 2

3/8" = 1'-0"



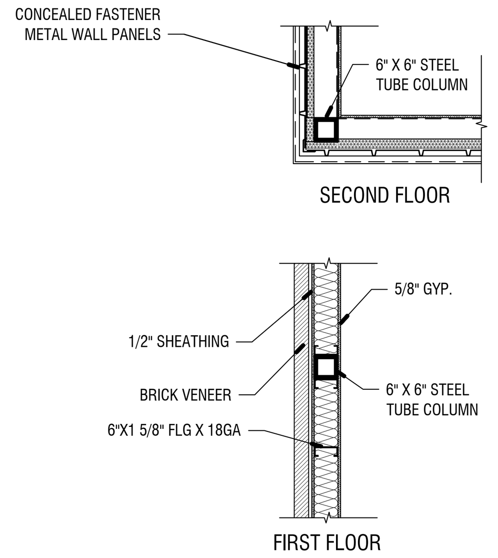
3 COLUMN FURRING DETAIL 3 PORTAL FRAME

3/8" = 1'-0"



4 COLUMN FURRING DETAIL 4 PORTAL FRAME

3/8" = 1'-0"



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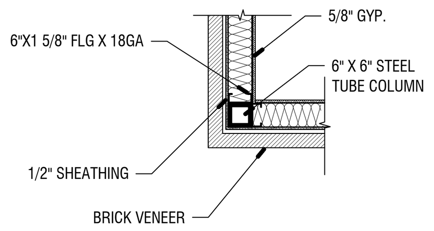
3/8" = 1'-0"



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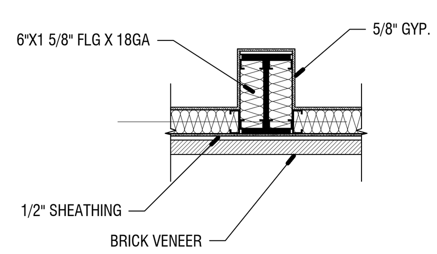
3/8" = 1'-0"



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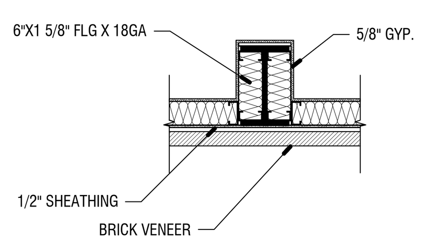

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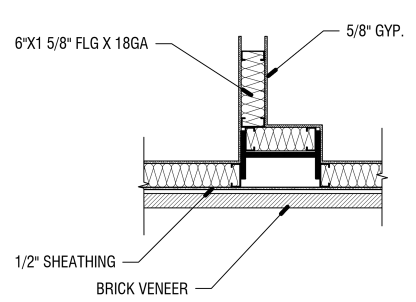

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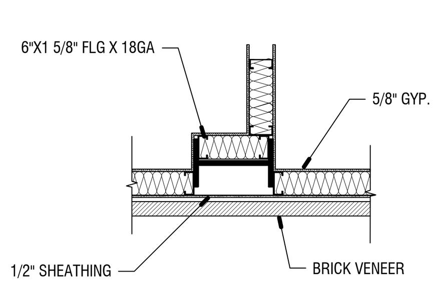

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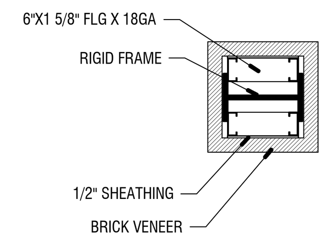

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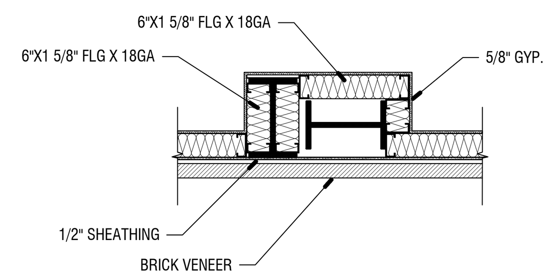
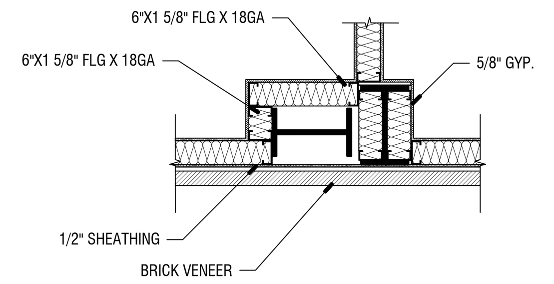


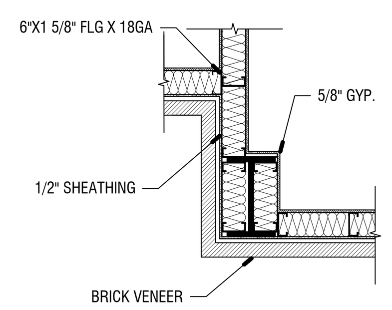
12 COLUMN FURRING DETAIL 12 PORTAL FRAME

3/8" = 1'-0"



13 COLUMN FURRING DETAIL 13 PORTAL FRAME

3/8" = 1'-0"



14 COLUMN FURRING DETAIL 14

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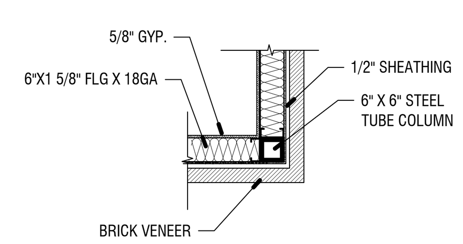

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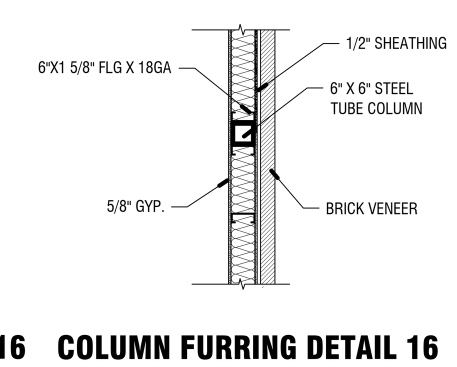

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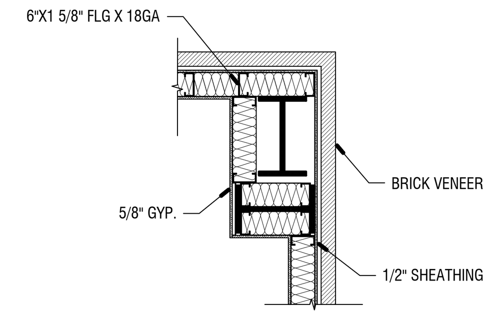

17 COLUMN FURRING DETAIL 17 PORTAL FRAME

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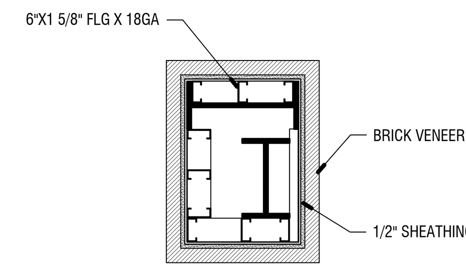

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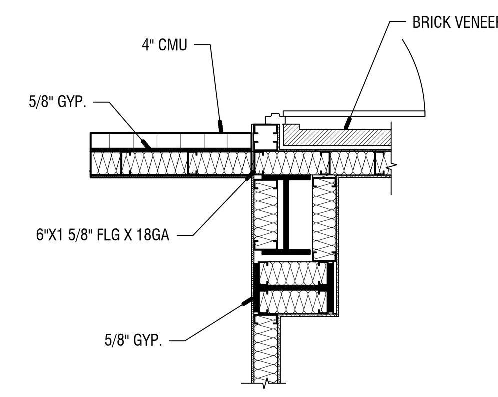

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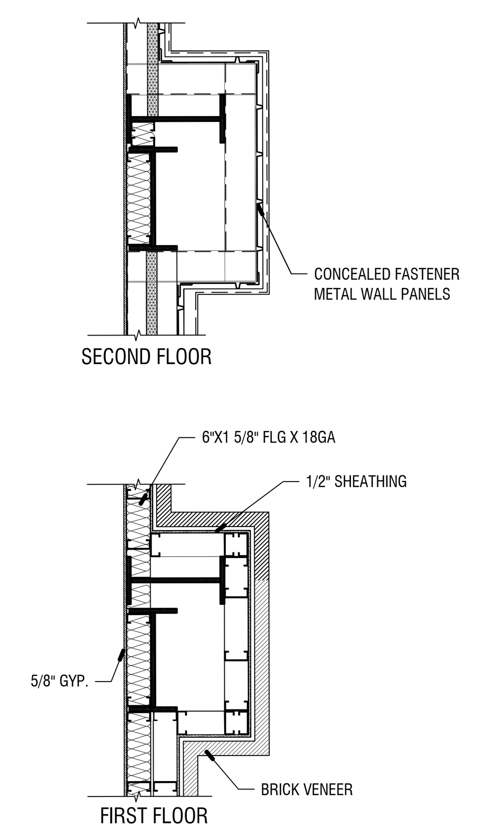

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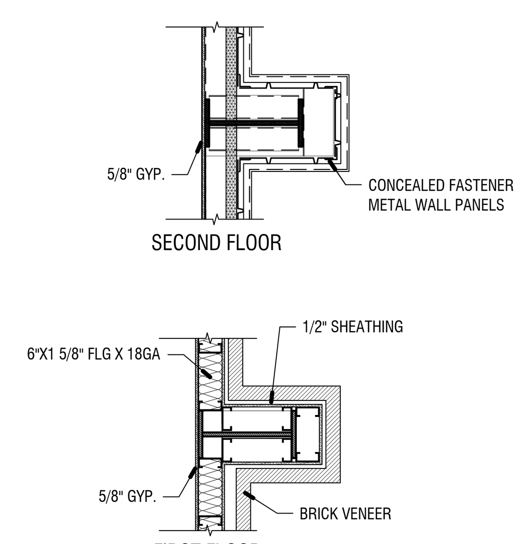

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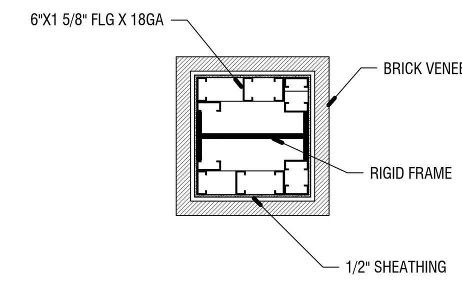

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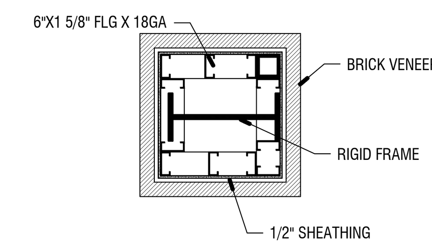

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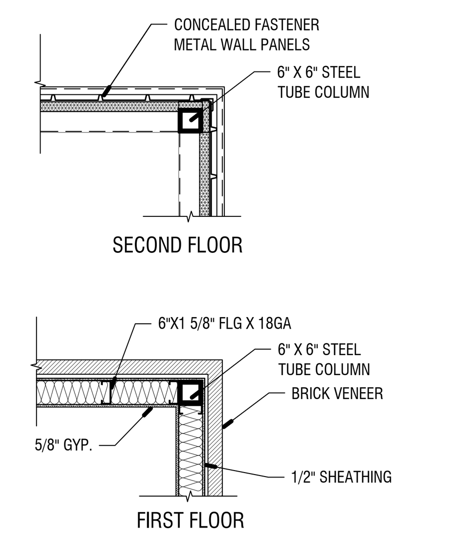

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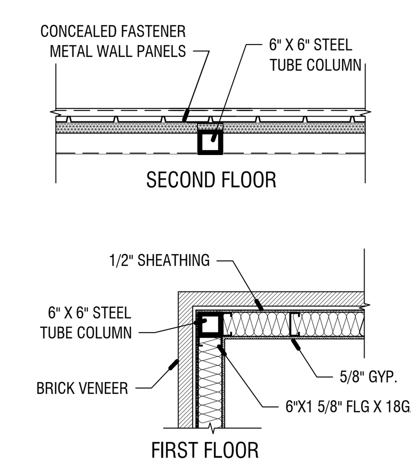

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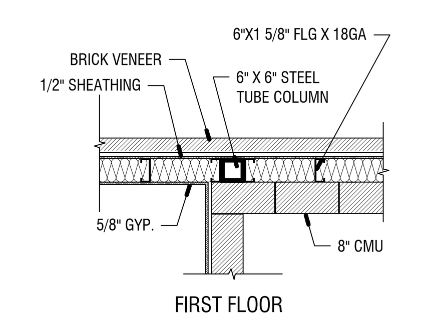

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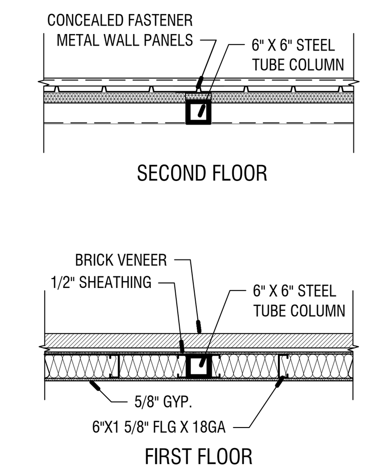

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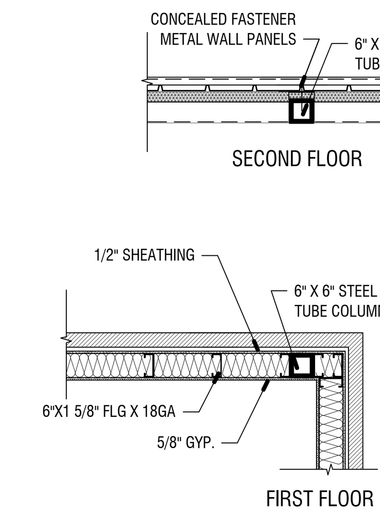

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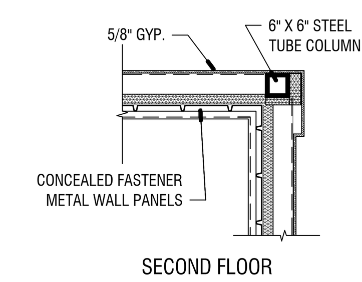

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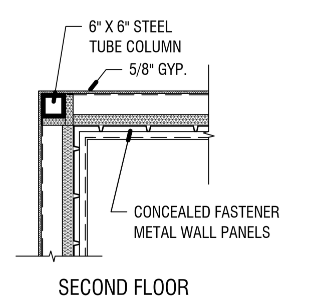

30 COLUM FURRING DETAIL 30

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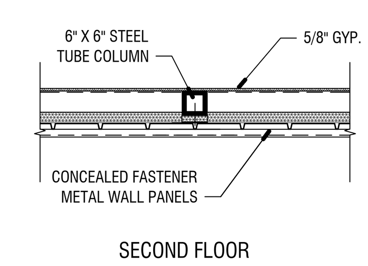

31 COLUM FURRING DETAIL 31

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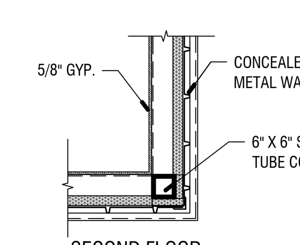

32 COLUMN FURRING DETAIL 32

3/8" = 1'-0"

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SEAL

STATE OF GEORGIA
BENJAMIN MERCER CARTER
CERTIFICATE NO. 009877
REGISTERED ARCHITECT

WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER
DALTON, GEORGIA

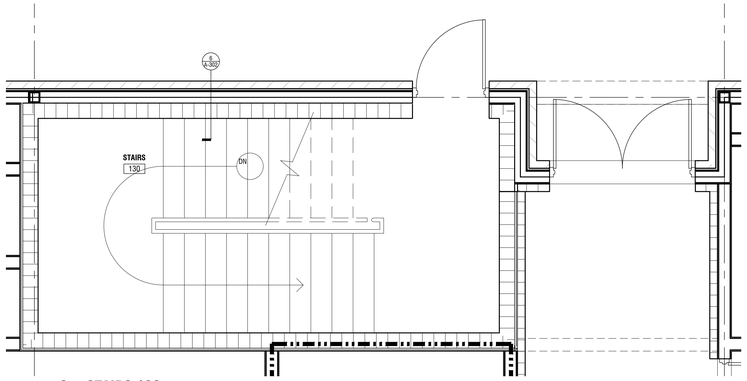
SHEET TITLE:
COLUMN FURRING DETAILS

PRINTED:

NUMBER:
A-305

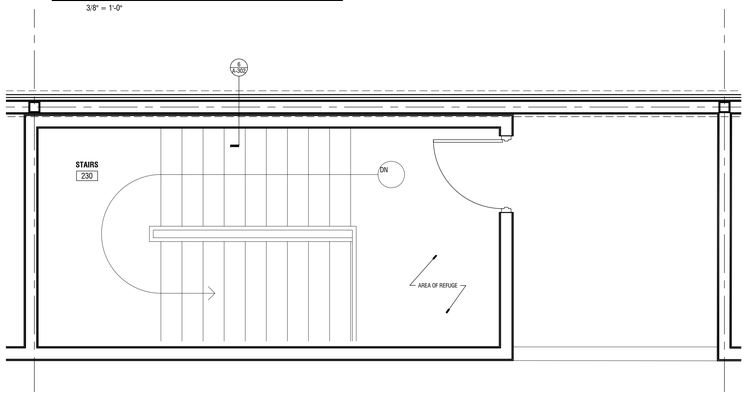
WHITFIELD COUNTY GYM PRINTED DATE: 10/14/20

Oct 14 2020 | T:\SHARED CAD\Projects 2019\Whitfield County Gym\WHITFIELD COUNTY GYM\Sheets\A-305 COLUMN FURRING DETAILS.dwg



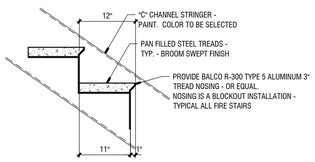
2 STAIRS 130

3/8" = 1'-0"



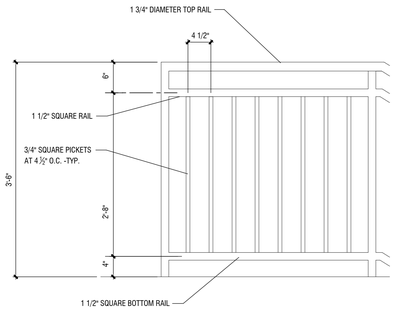
3 STAIRS 130 SECOND FLOOR PLAN

3/8" = 1'-0"



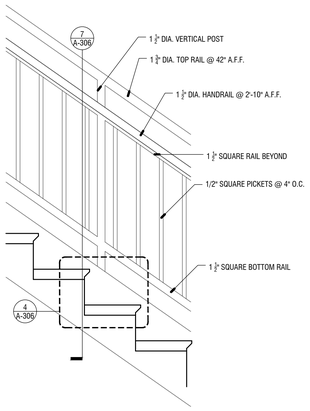
4 ENLARGED STAIR SECTION

1" = 1'-0"



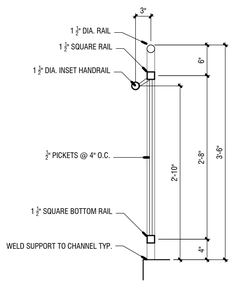
6 GUARDRAIL DETAIL

1" = 1'-0"



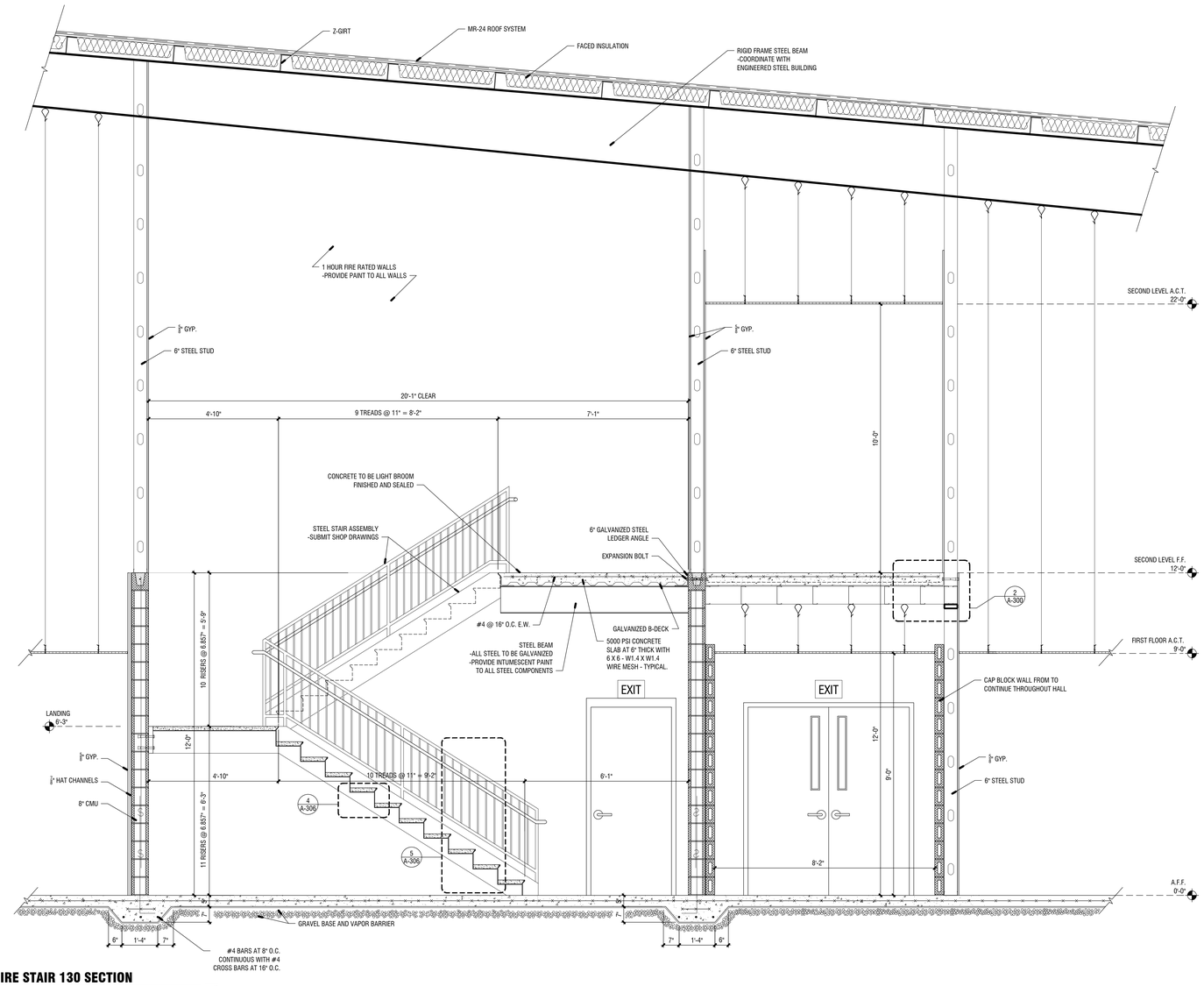
5 ENLARGED GUARDRAIL SECTION AT STAIRS

1" = 1'-0"



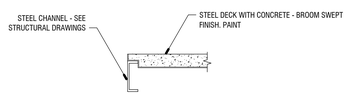
7 ENLARGED GUARDRAIL SECTION

1" = 1'-0"



1 FIRE STAIR 130 SECTION

1/2" = 1'-0"



8 ENLARGED SECTION AT LANDING

1" = 1'-0"

RAILING NOTES:

1. ALL RAILS TO BE STEEL - PAINTED, COLOR TO BE SELECTED
2. SUBMIT SHOP DRAWINGS SHOWING ALL CONDITIONS, DETAILS, DIMENSIONS, ANCHORING, SIZES, ETC.

STAIR NOTES:

1. SUBMIT SHOP DRAWINGS SHOWING ALL CONDITIONS, DETAILS, DIMENSIONS, ANCHORING, SIZES, ETC.
2. ALL EXPOSED PORTIONS AND UNDERSIDE OF STAIRS TO BE PAINTED. CONCRETE TREADS TO BE COVERED WITH VINYL STAIR TREADS AND RISERS .
3. STAIR TO MEET LIFE SAFETY CODE, IBC, AND GA ACCESSIBILITY.
4. STAIR TO HAVE 1 HOUR RATED WALL AND CEILING ENCLOSURES WITH 90 MIN. "A LABEL" DOORS AND ALL REQUIRED DAMPERS AND RATED PENETRATIONS.

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WHITFIELD COUNTY GYM PRINTED DATE: 10/14/20

Oct 14 2020 | T:\SHARED CAD\Projects 2019\Whitfield County Gym\WHITFIELD COUNTY GYM\Sheets\A-306 VERTICAL CIRCULATION.dwg

REVISIONS					
Number	Date:	Remarks:	Number	Date:	Remarks:
X	00-00-00	N/A			

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SEAL

STATE OF GEORGIA — BENJAMIN MERCER CARTER — REGISTERED ARCHITECT — STATE NO. 0001

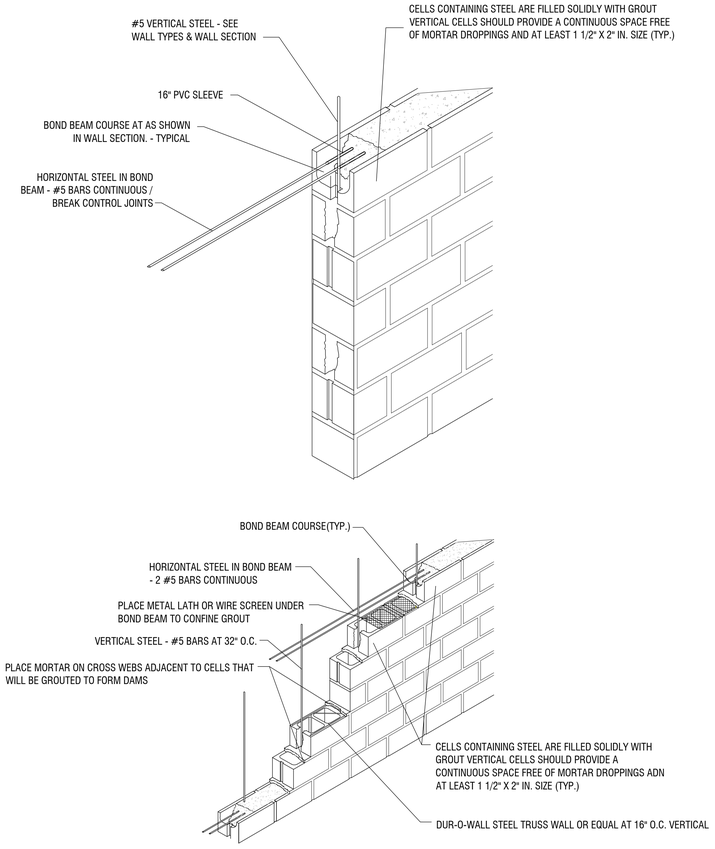
WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER

DALTON, GEORGIA

SHEET TITLE: VERTICAL CIRCULATION

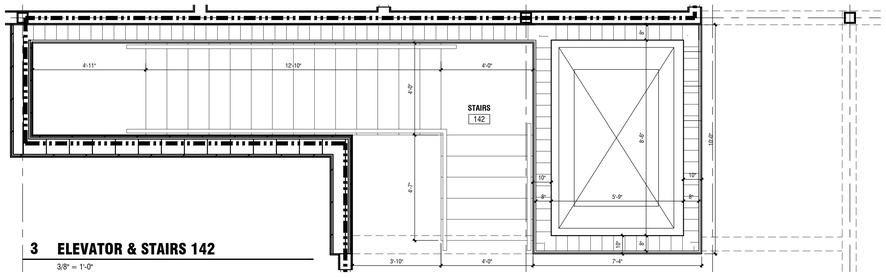
PRINTED:

NUMBER: A-306



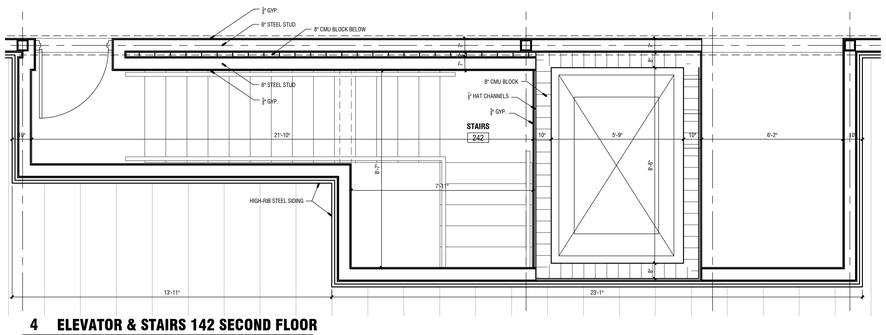
2 ELEVATOR BLOCK CONTROL JOINTS

1/2" = 1'-0"



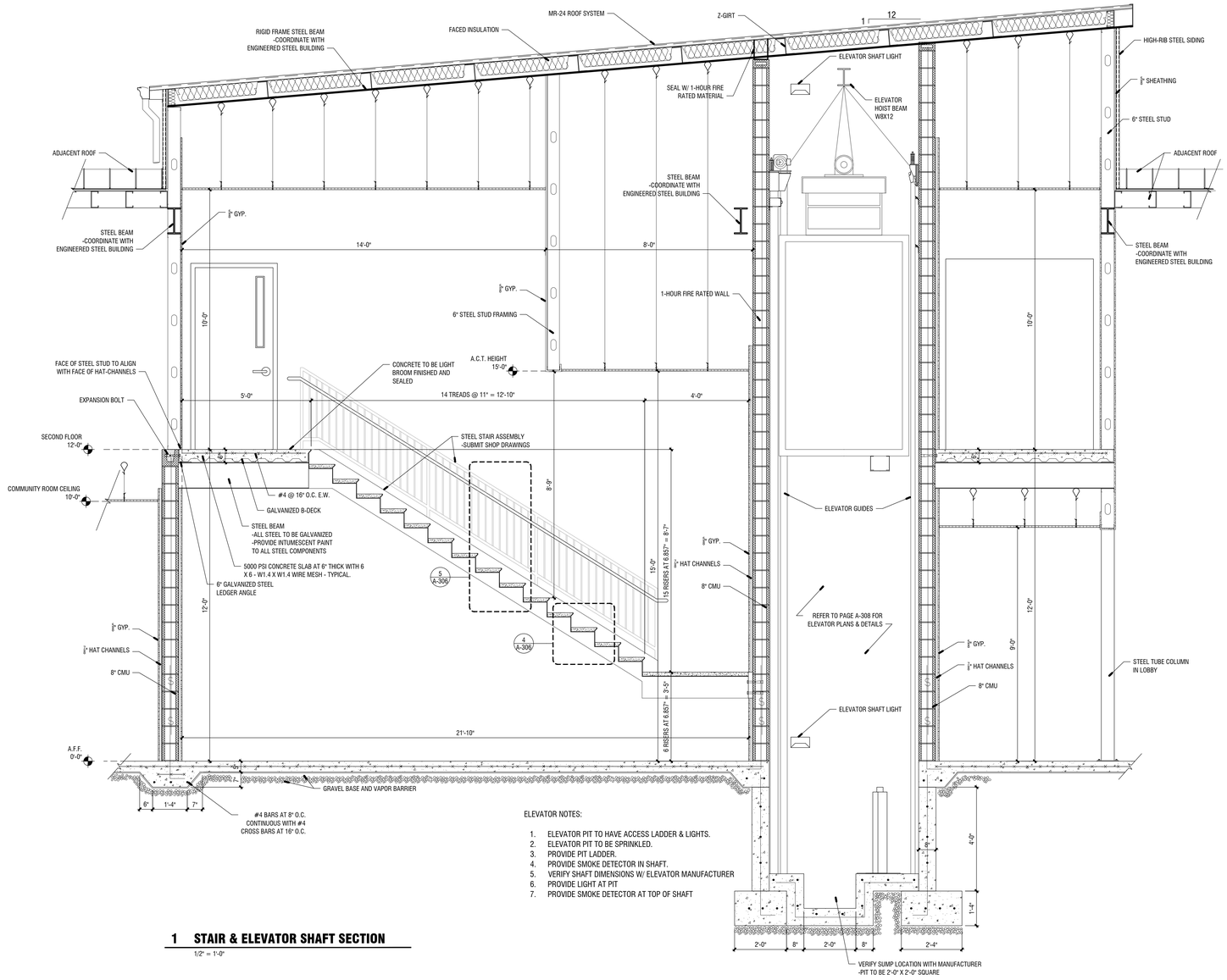
3 ELEVATOR & STAIRS 142

3/8" = 1'-0"



4 ELEVATOR & STAIRS 142 SECOND FLOOR

3/8" = 1'-0"



ELEVATOR NOTES:

1. ELEVATOR PIT TO HAVE ACCESS LADDER & LIGHTS.
2. ELEVATOR PIT TO BE SPRINKLED.
3. PROVIDE PIT LADDER.
4. PROVIDE SMOKE DETECTOR IN SHAFT.
5. VERIFY SHAFT DIMENSIONS W/ ELEVATOR MANUFACTURER
6. PROVIDE LIGHT AT PIT
7. PROVIDE SMOKE DETECTOR AT TOP OF SHAFT

1 STAIR & ELEVATOR SHAFT SECTION

1/2" = 1'-0"

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WHITFIELD COUNTY GYM PRINTED DATE: 10/14/20

REVISIONS					
Number	Date:	Remarks:	Number	Date:	Remarks:
X	00-00-00	N/A			

CONSULTANTS

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SEAL

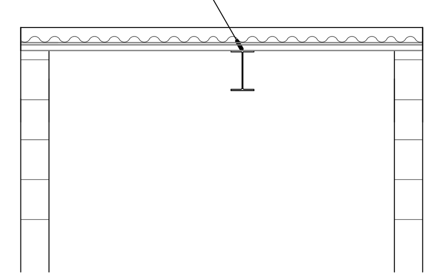
STATE OF GEORGIA — BENJAMIN MERCER JARRIS — CERTIFICATE NO. — REGISTERED ARCHITECT

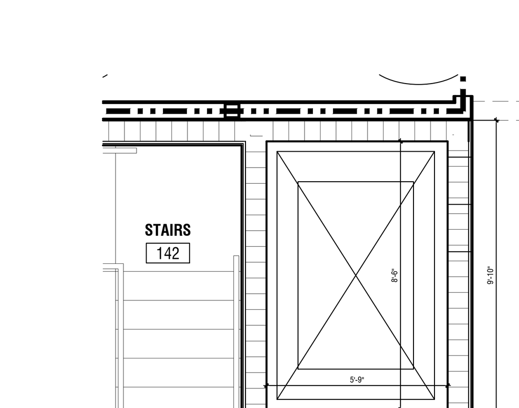
WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER
DALTON, GEORGIA

SHEET TITLE: VERTICAL CIRCULATION (CONT.)

PRINTED:

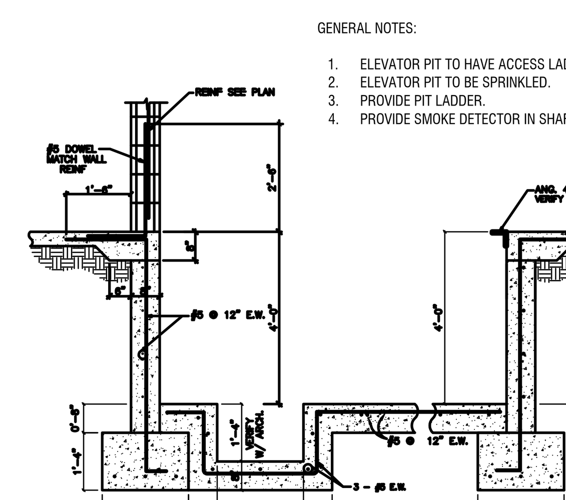
NUMBER: **A-307**

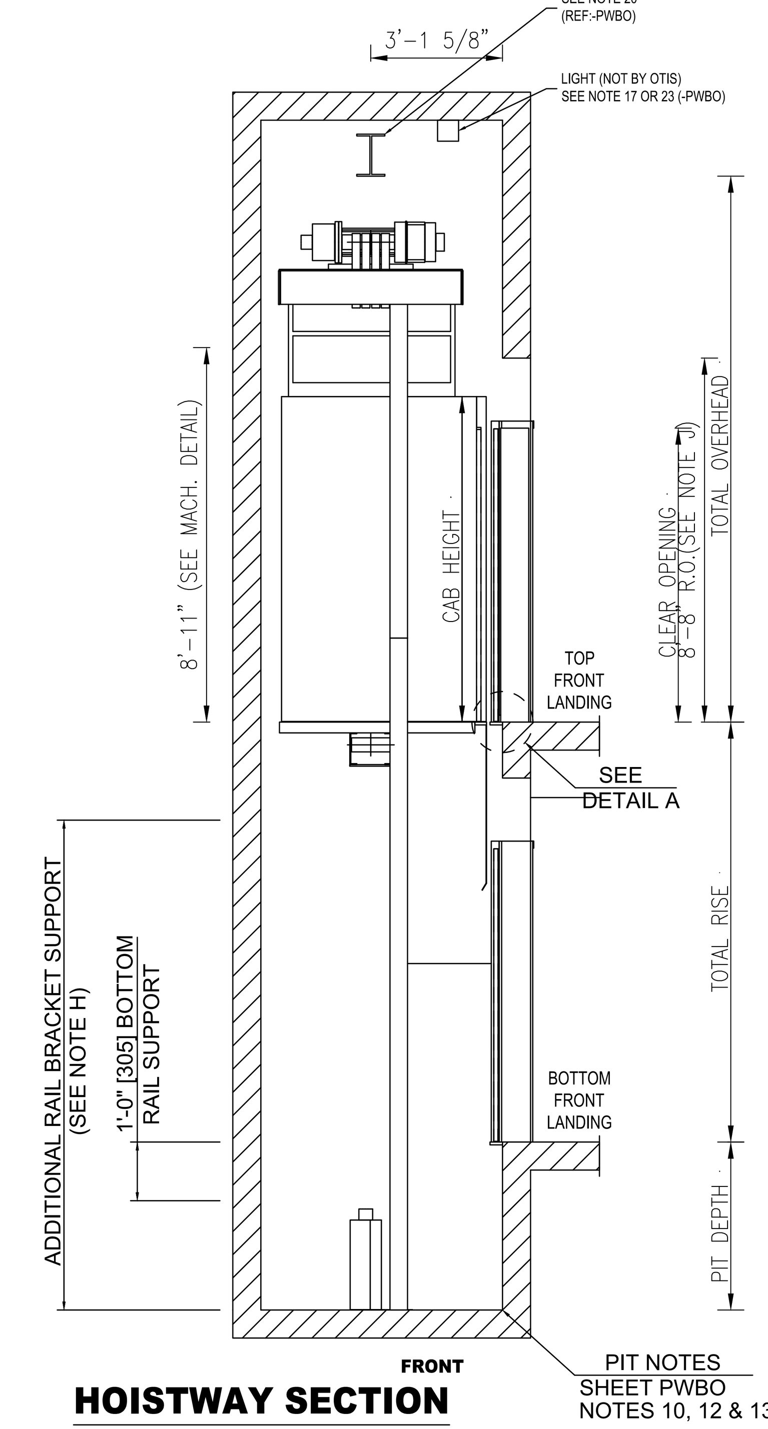




GENERAL NOTES:

1. ELEVATOR PIT TO HAVE ACCESS LADDER AND LIGHTS.
2. ELEVATOR PIT TO BE SPRINKLED.
3. PROVIDE PIT LADDER.
4. PROVIDE SMOKE DETECTOR IN SHAFT.





HOISTWAY SECTION

FOR MAX. SPACING BETWEEN INSERTS SEE RAIL FORCE DETAIL

The following items must be performed or provided at no cost to Otis Elevator Company ("OTIS") by the Owner or General Contractor or their agents in accordance with governing codes. The price and installation schedule of Otis is based on these job-site conditions existing at the beginning and during the installation of the elevator equipment. Failure to provide the items specified in this list will result in additional work performed by Otis Elevator beyond the scope of our contract causing installation delays. A change order will be submitted by Otis for materials and/or labor expended. All work must be performed per the applicable national and or local codes.

General Prep/Work

1. Provide on-site storage area for elevator equipment as follows: dry and enclosed, provides roll-able access to the elevator hoistway at the ground level, located within 100 feet (30480mm) of the hoistway and is larger than 25 x 20 feet (7620mm x 6096mm) per elevator. Any warranties provided by Otis for elevator equipment are null and void if equipment is stored in a manner other than a dry enclosed building structure.

2. Provide sufficient on-site refuse containers for the proper disposal of elevator packaging material. Should sufficient refuse containers not be provided, disposal of packaging material shall become the responsibility of the owner.

3. Provide any cutouts to accommodate elevator equipment (troughing, venting, and hall fixtures), along with the patching/painting of walls, floors, or partitions together with finish painting of entrance doors and frames, if required.

Hoistway & Pit Prep/Work

4. Provide and install a steel, I-beam shaped safety beam with a maximum flange width of 8 11/16" (220mm), from side wall to side wall at the top of the hoistway, capable of withstanding a minimum net live load of 7500 lb (3402kg) per elevator. Reference Otis Layout for location. A 4" minimum clearance is required from top of beam to top of hoistway.

5. Provide a clear plumb hoistway with variations from the size shown on the Otis layout not to exceed -0"/+1"(25mm) and not less than the clear dimensions shown on the Otis layout

6. Provide adequate rail bracket supports, bracket spacing as required by governing code, from pit floor to top of hoistway to comply with the rail reaction forces detailed on the Otis Contract Layout. Provide adequate support for the top rail brackets at locations above the top landing as specified on the Otis Layout. Provide separator beams where required. Unless approved by Otis, rail-bracket attachment supports must be exposed and flush with the clear hoistway line.
If the floor-to-floor height exceeds the maximum bracket spacing allowed by the elevator code, Otis requires some form of steel support to properly attach our guide rail brackets. The maximum allowed bracket spacing is indicated in the rail force and bracket detail table on the Otis layout. Any rail bracket mounting surfaces that are not in line with the finished hoistway dimension (i.e. the clear hoistway line) may need to be extended to meet the required distance. Otis agrees to provide guidance on this matter at the appropriate time.

   If rail bracket embedded plates or inserts are provided by Otis they shall be installed by others in accordance with Otis documentation and instructions.

   If vertical tube steel is utilized as rail support, see the Otis layout for any specific requirements.

7. Provide adequate support at all fastening points of each entrance. Provide plumb vertical surfaces for entrances and entrances and building sill line. For MRL installations, a horizontal support member is to be provided 20" (508mm) above the clear opening at the controller landing to support the entrance and controller components. If any other floor height exceeds 12'-0" (3657mm), a horizontal support member is to be provided 12" (305mm) above the clear opening. For MRL installations, if entrance finish protection is installed, a section of such protection must be removable to allow safe and convenient access to the Inspection & Test panel of the elevator.

8. Prior to the start of installation, provide a dry, properly framed, enclosed and vented hoistway in accordance with all applicable codes.

9. A.) Protection from Falls:
   As required by the Occupational Safety and Health Administration (OSHA) 1926.502 B) (1-3) a freestanding removable barricade at each hoistway opening at each floor. Barricades shall be 42" (1067mm) high, with mid-rail and kick board, and withstand 200 lbs. (90.7kg) of vertical and horizontal pressure.

   B.) Protection from Falling Objects:
   As required by the Occupational Safety and Health Administration (OSHA) 1926.502(j) hoistway protection from falling debris and other trades materials by either:
   1.)Full entrance screening/mesh in front of all elevator entrances

   2.)Secured/controlled access to all elevator lobbies (lock and key) with posted Notice "only elevator personnel beyond this protection."

   Notes:
   Items A.) and B.) can be integrated systems.
   Hoistway barricades and screening shall be constructed, maintained and removed by others.

10. Provide a pit floor designed to sustain vertical forces (based on safety impact) on car and counterweight rails and impact loads on car and counterweight buffers as shown on the Otis layout. The pit must be dry and clean. The elevator pit must have a floor drain or sump pump to prevent the accumulation of water. Location to be coordinated with Otis to avoid all elevator components and access areas. In areas requiring fire fighters emergency operation (FEO) a sump pump/drain shall be provided that shall have the capacity to remove a minimum of 11.4m3/h (3,000 gal/h) per elevator (ASME A17.1/CSA B44 latest applicable code year section 2.2.2.5). Otis recommends that the owner verify the drain or sump pump system is in compliance with all applicable codes and laws.

11. TOP and BOTTOM landings (and the MAIN landing where applicable), are not to be constructed until after all elevator equipment is installed in the hoistway. The entire front wall must be open for installation with the following rough opening dimensions (to be shown on layouts):
   -Rough Opening Width = CLEAR HOISTWAY WIDTH
   -Rough Opening Height = 2642mm (8'-8") for a 2134mm (7') entrance height
   2947mm (9'-8") for a 2438mm (8') entrance height
   If the controller is located on the REAR entrance, the wall at this rear entrance should also have these rough opening dimensions. Remaining front entrance walls are not to be constructed until after door frames and sills are in place.

   The rough openings, per sizes shown on the Otis layout, are required. Prior to the completion and turnover of the elevator(s), all entrance walls must be installed and rough openings filled in complete to maintain fire rated hoistway requirements.

12. Provide and install a fixed vertical iron ladder in each pit as required by governing code and located per Otis layout or as coordinated with Otis personnel. Ladder width and pit wall pocket requirements are shown in the pit plan view on the Otis layout. For entrance heights of up to 7' (2134mm) the top rung of the ladder must be even with the bottom landing. For entrance heights greater than 7' (2134mm) the top rung must be 12' (305mm) above the bottom landing. Hand grips must be provided to a height of 4' (1219mm) above the bottom landing. Hand grips must have 4-1/2" (114mm) radial clearance, from their centerline, to any obstruction in the hoistway. (Refer to the detail views for typical ladder arrangement)

13. Install permanent light fixture in each elevator pit with illumination of not less than 100 lx (10 fc) as measured at the pit floor. The light bulb(s) shall be externally guarded to prevent contact and accidental breakage. The light switch shall be so located as to be accessible from the pit ladder.

14. Glass used in hoistway construction must block 98% or more of incident full-spectrum ultraviolet radiation for the full height of the hoistway.

15. Provide and install guarding of counterweight in a multiple-elevator hoistway as required, when a counterweight is located between elevators, the counterweight runway shall be guarded on the side next to the adjacent elevator. The guarding must meet or exceed the requirements of ASME A17.1/CSA B44 latest applicable code year, section 2.3.2.3.
If an emergency door in a blind hoistway is required, provide an outward swinging single section type door with door closer and a self closing barrier per ASME A17.1/CSA B44 latest applicable code year, section 2.11.1.2. Contact your local Otis personnel for a detailed drawing (AAA26900D_FMI) showing Otis specific requirements.

MRL Machine Space Prep/Work

16. Maintain the temperature at the top of the hoistway (machine space) between 32° F (0° C) and 104° F (40° C). This space also includes the the car controller which is mounted at the top landing. Relative humidity shall not to exceed 95% non-condensing. Provide ventilation to suit Otis heat release amounts as shown in Otis Confirmation of Power Supply form. Local codes may require tighter temperature ranges and higher ventilation levels. Please check with your local code authority for the exact requirements in your area. If your machinery space temperature exceeds this requirement, contact your local Otis sales representative for assistance.

17. Install a permanent light fixture at the top of the hoistway (machine space) of not less than 200-lux (19 fc) as measured at the level of the standing surface on the car when the elevator is at the top landing. Light switch is to be located in the hoistway per the Otis layout.

18. Install a permanent light fixture at the top landing entrance (control space), in the hall, of not less than 200-lux (19 fc) as measured at the floor level. Light switch is to be located close to the elevator entrance.

Control Room/Space and Machine Space Prep/Work

19. Provide a suitable control room/space(s) with access and ventilation in accordance with all applicable codes and regulations. The control room/space(s) shall be maintained at a temperature between 32F (0C) and 104F (40C) to be measured 6 feet (1830 mm) above the floor and 1 foot (305 mm) out from the front center of the car controller(s). Relative humidity is not to exceed 95% non-condensing. Provide ventilation to suit Otis heat release amounts as shown on the Otis Confirmation of Power Supply form. Local codes may require tighter temperature ranges and higher ventilation levels, please check with your local code authority for the exact requirements in your area. If your control room/space(s) temperatures exceed these requirements, contact your local Otis sales area. If your control room/space(s) temperatures exceed these requirements, contact your local Otis sales representative for assistance.

20. Provide illumination of control room/space(s) of not less than 200 LUX (19 FC) as measured at floor level. Light switch is to be located within 18" (157 mm) to the lock-jamb side of the access door to the control room/space(s).

21. Provide control room/space(s) with self-closing and self-locking doors with a group 2 locking device. In addition, ensure that all air gaps around the doors are sealed (i.e. threshold, weather stripping, etc.).

22. Maintain the temperature at the top of the hoistway (machine space) between 32° F (0° C) and 104° F (45° C). Relative humidity shall not to exceed 95% non-condensing. Provide ventilation to suit Otis heat release amounts as shown in Otis Confirmation of Power Supply form. If your machinery space temperature exceeds this requirement, contact your local Otis sales representative for assistance.

23. Install a permanent light fixture at the top of the hoistway (machine space) of not less than 200-lux (19 fc) as measured at the level of the standing surface on the car when the elevator is at the top landing. Light switch is to be located in the hoistway per the Otis layout.

Fire Prevention Prep/Work

24. Provide hoistway walls designed and constructed in accordance with the required fire rating (including those places where elevator fixture boxes, rail bracket fastenings, and any other penetration into the hoistway walls).

25. In the United States provide smoke detectors, located as required, with wiring from the sensing devices to the controller(s) designated by Otis.
   A. For each group of elevators, provide a normally closed contact representing the smoke detector at the designated return landing.

   B. For each group of elevators, provide a normally closed contact representing all smoke detectors located in lobbies, hoistways, or control rooms/spaces but not the smoke detector at the designated return landing (see above) or the smoke detectors as described below:
   1) If a smoke detector is located in the hoistway at or below the lower of the two recall landings, it shall be wired to activate the same normally closed contact as the smoke detector located in the lobby at the lower of the two recall landings.

   2) If the control room/space(s) are located at the designated return landing, the smoke detectors located therein shall be wired to activate the same normally closed contact as the smoke detector at the designated landing.

   C. Requirements for intermittently illuminating the fire hat visual signal in the car operating panel, either 1) or 2) must be selected.
   1) For a single unit, or group of elevators having control room/space(s) and one common hoistway, provide one additional normally closed contact representing the control room/space(s) and hoistway smoke detectors.

   2) If the group contains more than one hoistway, and hoistway smoke detectors are installed, provide one normally closed contact for each elevator. The contact is to represent the smoke detectors in the control room/space(s) or hoistway containing that particular elevator.

26. In Canada provide smoke detectors, located as required, with wiring from the sensing devices to the controller(s)
   A. For each group of elevators, provide a normally closed contact representing the smoke detector at the designated return landing and if provided, from the sensing device in the pit.

   B. For each group of elevators, provide a normally closed contact representing all smoke detectors located in elevator lobbies, but not the smoke detector at the designated return landing (see above), and if provided, from the sensing device in the top of the hoistway.

   C. For each group of elevators, provide a normally closed contact representing the smoke detector in the elevator machine space.

   D. If the control space is located at the designated return landing, the smoke detectors located therein shall be wired to activate the same normally closed contact as the smoke detector at the designated landing. For each group of elevators, provide in addition to the above, a normally closed contact representing the sensing devices in the pit or at the top of the hoistway (For the Fire Hat in the Elevator).

Fire Prevention Prep/Work (cont)

27. In the United States, if sprinklers are installed in the hoistway(s), or machine space(s), a means to automatically disconnect the main line power supply of the affected elevator and any other power supply used to move the elevator upon or prior to the application of water is required (unless prohibited by local code). Smoke detectors shall not be used to activate sprinklers in hoistway(s), or machinery spaces or to disconnect the mainline power supply.

   In addition, when the Automatic Recovery Operation (ARO) is specified, the means provided to automatically disconnect power to the elevator shall be equipped with an additional auxiliary contact that is positively opened when power is removed from the elevator system. This automatically controlled mainline disconnect must be provided with all associated wiring and conduit to the controller.

28. Provide an "ABC" fire extinguisher, minimum 10 lbs for machine space, and located convenient to the top landing elevator entrance.

29. Provide control room/space(s) and door to code compliant fire-resistive construction.

Electrical Requirements

30. 3 Phase Power MRL – Provide a permanent three (3) phase electrical-feeder system with a separate equipment-grounding conductor terminating in the elevator controller located at the top landing or transformer located at the top of the hoistway. Permanent three (3) phase electrical-feeder to be terminated at the elevator controller or transformer at the start of installation of the top landing elevator entrance and the timing of connection to Otis controller shall be coordinated with the elevator installer. Feeder conductors and grounding conductor sized according to elevator current characteristics as shown on the Otis Confirmation of Power Supply form. Feeder conductors and grounding conductor must be copper. Provide a fused disconnect switch or circuit breaker capable of being locked in the open position, for each elevator per the National Electrical Code (ANSI/NFPA 70) or Canadian Electrical Code (C22.1) with feeder or branch wiring to elevator controller [NEC 620-51, 620-61(D), and 620-62] or [CEC Rule 38-013 (2) (a)] located at the point of power distribution in the building. The disconnecting means required by the National Electrical Code or Canadian Electrical Code CEC [Rule 38-051] shall be provided with all associated wiring and conduit to the elevator controller. Size of main contacts to suit elevator power characteristics. Fuses, if provided, are to be current limiting class J or equivalent. Circuit breakers, if provided, are to have current limiting characteristics equivalent to class J fuses. Fuses or circuit breakers are to be time delay to cover the full load up accelerating current. Accelerating current typically is the peak as indicated on the Otis Confirmation of Power Supply Form, and lasts for duration not to exceed 7 seconds. Feeder conductors and associated wiring to the controller to be sized to limit wiring voltage drop to 5% maximum when delivering elevator full load up accelerating current. The building power system used to operate the elevator(s) shall be capable of supplying non linear loads and be capable of absorbing the regenerated power listed on the Otis Confirmation of Power Supply form.

   Single Phase Power MRL – Provide a permanent single phase electrical-feeder system with a separate equipment-grounding conductor terminating to the transformer located at the top of the hoistway. Permanent single phase electrical-feeder to be terminated at the transformer at the start of installation of the top landing elevator entrance and the timing of connection to Otis controller shall be coordinated with the elevator installer. Feeder conductors and grounding conductor sized according to elevator current characteristics shown on the Otis Confirmation of Power Supply form. Feeder conductors and grounding conductor must be copper. Provide a fused disconnect switch or circuit breaker capable of being locked in the open position, for each elevator per the National Electrical Code (ANSI/NFPA 70) or Canadian Electrical Code (C22.1) with feeder or branch wiring to elevator controller [NEC 620-51, 620-61(D), and 620-62] or [CEC Rule 38-013 (2) (a)] located at the point of power distribution in the building. The disconnecting means required by the National Electrical Code or Canadian Electrical Code CEC [Rule 38-051] shall be provided with all associated wiring and conduit to the elevator controller. Size of main contacts to suit elevator power characteristics. Fuses, if provided, are to be current limiting class J or equivalent. Circuit breakers, if provided, are to have current limiting characteristics equivalent to class J Fuses, if provided, are to be current limiting class J or equivalent. Circuit breakers, if provided, are to have current limiting characteristics equivalent to class J fuses. Fuses or circuit breakers are to be time delay to cover the full load up accelerating current. Accelerating current typically is the peak as indicated on the Otis Confirmation of Power Supply Form, and lasts for duration not to exceed 7 seconds. Feeder conductors and associated wiring to the controller to be sized to limit wiring voltage drop to 5% maximum when delivering elevator full load up accelerating current. The building power system used to operate the elevator(s) shall be capable of supplying non linear loads and be capable of absorbing the regenerated power listed on the Otis Confirmation of Power Supply form.

   MRL Configuration (controller located in hoistway entrance) with Transformer – If a transformer is required and the controller is to be located in the hoistway entrance, the transformer must be located in an electrical room. The transformer must be mounted and wired as per the National Electrical Code (ANSI/NFPA 70) or Canadian Electrical Code (C22.1). Provide conduit and wiring to the transformer as well as between the transformer and the controller located in the hoistway entrance in accordance with the National Electrical Code (ANSI/NFPA 70) or Canadian Electrical Code (C22.1). Contact your local Otis representative for details.

31. 3 Phase Power Control Room/Space – Provide a permanent three (3) phase electrical-feeder system with a separate equipment-grounding conductor terminating in the control room/space(s), located per Otis layout. Feeder conductors and grounding conductor sized according to elevator current characteristics as shown on the Otis Confirmation of Power Supply form. Feeder conductors and grounding conductor must be copper. A fused disconnect switch or circuit breaker capable of being locked in the open position, for each elevator per the National Electrical Code (ANSI/NFPA 70) or Canadian Electrical Code (C22.1) with feeder or branch wiring to controller [NEC 620-51, 620-61(D), and 620-62] or [CEC Rule 38-013(2)(a)]. The disconnecting means required by the National Electrical Code or Canadian Electrical Code CEC [Rule 38-051] shall be provided with all associated wiring and conduit to the controller. Size of main contacts to suit elevator power characteristics. Fuses are to be current limiting class RK1 or equivalent. Circuit breakers are to have current limiting characteristics equivalent to class RK1 fuses. Fuses or circuit breakers are to be time delay to cover the full load up accelerating current. Accelerating current typically is the peak as indicated on the Otis Confirmation of Power Supply Form, and lasts for duration not to exceed 7 seconds. Feeder conductors and associated wiring to the controller to be sized to limit wiring voltage drop to 5% maximum when delivering elevator full load up accelerating current. The building power system used to operate the elevator(s) shall be capable of supplying non linear loads and be capable of absorbing the regenerated power listed on the Otis Confirmation of Power Supply form.

   Single Phase Power Control Room/Space – Provide a permanent single phase electrical-feeder system with a separate equipment-grounding conductor terminating in the control room/space(s), located per Otis layout. Feeder conductors and grounding conductor sized according to elevator current characteristics as shown on the Otis Confirmation of Power Supply form. Feeder conductors and grounding conductor must be copper. A fused disconnect switch or circuit breaker capable of being locked in the open position, for each elevator per the National Electrical Code (ANSI/NFPA 70) or Canadian Electrical Code (C22.1) with feeder or branch wiring to controller [NEC 620-51, 620-61(D), and 620-62] or [CEC Rule 38-013(2)(a)]. The disconnecting means required by the National Electrical Code or Canadian Electrical Code CEC [Rule 38-051] shall be provided with all associated wiring and conduit to the controller. Size of main contacts to suit elevator power characteristics. Fuses are to be current limiting class RK1 or equivalent. Circuit breakers are to have current limiting characteristics equivalent to class RK1 fuses. Fuses or circuit breakers are to be time delay to cover the full load up accelerating current. Accelerating current typically is the peak as indicated on the Otis Confirmation of Power Supply Form, and lasts for duration not to exceed 7 seconds. Feeder conductors and associated wiring to the controller to be sized to limit wiring voltage drop to 5% maximum when delivering elevator full load up accelerating current. The building power system used to operate the elevator(s) shall be capable of supplying non linear loads and be capable of absorbing the regenerated power listed on the Otis Confirmation of Power Supply form.

32. Provide a dedicated 125 volt, 15 ampere single-phase branch circuit with a fused disconnect switch or circuit breaker located at the point of power distribution in the building. The fused disconnect or circuit breaker shall be capable of being locked in the open position. This branch circuit supplies the car lights, car top receptacle, auxiliary lighting power source and ventilation on each car in compliance with the National Electrical Code [NEC620-53] or Canadian Electrical Code [CEC Rule 38-053]. Termination of this branch circuit shall be in the elevator controller located at the top landing and shall be connected at the same time as the permanent three (3) phase power referenced in the previous paragraph.

33. All 125 volt, 15 or 20 ampere single-phase receptacles installed in pits, machine spaces, control rooms/space(s) shall be of the ground-fault circuit-interrupter type (GFCI). A dedicated single-phase receptacle supplying a permanently installed pit sump pump shall not require GFCI protection.

34. Provide electric power for lights, tools, welding, hoisting, etc. during installation with sufficient power for starting, testing and adjusting the elevator. Provide a 220 volt, 30 ampere single-phase 4 wire electrical supply for platform operation during construction, available at the start of elevator installation.

35. Provide one (1) dedicated outside telephone line, per elevator, and terminated at the controller designated by the Otis construction superintendent. Reference the A17.1 code and the Otis power of confirmation letter for specific requirements.

36. In areas under the jurisdiction of AMSE A17.1-2004/CSA B44 or later where the elevator travel is greater than or equal to 60 feet /18 meters, provide two-way voice communications means that shall enable emergency personnel within the building to establish communications to each car individually without intervention by a person within the car. The communication means shall override communications to the outside of the building and once established shall only be terminated by emergency personnel outside the car. Refer to ASME A17.1/CSA B44 latest applicable code year, section 2.27.1.1.4 for exact requirements.

37. [Optional] For elevators having an intra building intercom, provide a separate 120 volt, 15 ampere, single phase power supply with fused SPST disconnect switch or circuit breaker, located as required for inter-communicating system power supply. Circuit to be arranged for feeding from the building emergency lighting supply if provided. Conduit and wiring for remotely located inter-communicating stations.

38. [Optional] For installations having emergency (standby) power, provide the standby power unit and means for starting it. The emergency (standby) power unit shall deliver to the elevator via disconnect switches in the building power distribution location or disconnect switches in the control room/space(s), sufficient power to operate one or more elevators at a time at full rated speed, and rated load.

   An automatic power transfer switch for each power feeder to monitor both normal and emergency (standby) power conditions and to perform the transfer from one to the other. Switch to have two sets of normally closed dry contacts, one to be open when the switch is in the emergency (standby) power position; the other to open upon initiation of power transfer and to close when transfer is complete. Switch to have an inhibit function which will delay transfer to normal and/or emergency (standby) power by an adjustable period of 0 – 300 seconds. Switch shall have a phase monitor feature, which prohibits the transfer of power between "live" sources unless the sources are in phase with each other. If a shunt trip device is provided, an additional normally closed contact, with all associated wiring and conduit to the controller, is required from the emergency (standby) power source. The emergency (standby) power system provided shall comply with ANSI/NFPA 70 requirements 620.91. The table in section "ELEVATOR REGENERATIVE POWER REQUIREMENTS", on the Otis Confirmation of Power Supply form, contains the elevator system power regenerated under an overhauling load. The information contained in the form is to be used to determine regenerative power absorption capability for the emergency (standby) power distribution system.

   Note: The building Emergency (Standby Power) Generator system used to operate the elevator(s) shall be capable of supplying non-linear loads.

39. [Optional] Compass Dispatching System – a dedicated 125 volt 20 ampere single-phase power supply with SPST fused disconnect switch or circuit breaker. The fused disconnect or circuit breaker shall be capable of being locked in the open position and located upstream of the elevator equipment. This disconnect or circuit breaker must be in sight of the Compass Dispatching System equipment.

   MRL Configuration (controller located in hoistway entrance) with Compass – If Compass is required and the controller is to be located in the hoistway entrance, an electrical room must be provided for the Compass Dispatching System equipment within sight of the entrance controller. Contact your local Otis representative for details.

   [Optional] Elevator Management System (EMS) – a dedicated 125 volt 20 ampere single-phase power supply with SPST disconnect switch or circuit breaker with duplex outlets per Otis layout, and at any location where a Security Station and/or Fire Station is furnished. Circuits to be arranged for feeding from the building standby or emergency lighting supply if provided.

[OPTIONAL] FIRE SERVICE ACCESS ELEVATORS (FSAE)

FSAE Hoistway & Pit Prep/Work

40. Provide all hoistways to meet structural code requirements for Fire Service Access Elevators as per IBC and NFPA

FSAE Machine Room Prep/Work

41. Provide climate control and ventilation with monitoring equipment

FSAE Fire Protection Prep/Work

42. Comply with NFPA requirements relative to hoistway pressurization and sprinkler prohibition.

FSAE Electrical Requirements

43. Provide hoistway lighting (1 Foot-candle, 11 lux, measured on top of car) for entire length of hoistway.

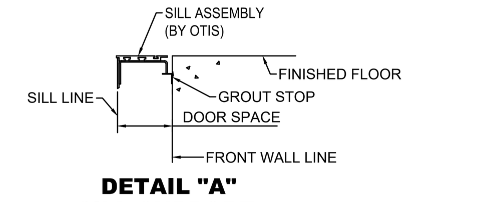
44. Emergency (standby) power must deliver power to elevator machine room, control room or space ventilation, cooling equipment, and the hoistway lighting.

You agree to indemnify and save Otis harmless against any and all liability and costs arising out of your failure to carry out any of the foregoing requirements.

	<= 2007 CODE YEAR		> 2009 CODE YEAR	
	CAB HEIGHT		CAB HEIGHT	
	7'-9"	9'-9"	7'-9"	9'-9"
MIN RISE	10'-2"			
MAX RISE	80'-0"			
MIN. TOTAL CLEAR HEIGHT	13'-0"	15'-0"	12'-10"	14'-10"
MAX. TOTAL CLEAR HEIGHT	MIN CLEAR HEIGHT + 2'-0" [609.6mm]			
PIT DEPTH	IF A17.7 IS ADOPTED THEN PIT DEPTH = 4'-0" IF A17.7 IS NOT ADOPTED THEN PIT DEPTH = 5'-0"			

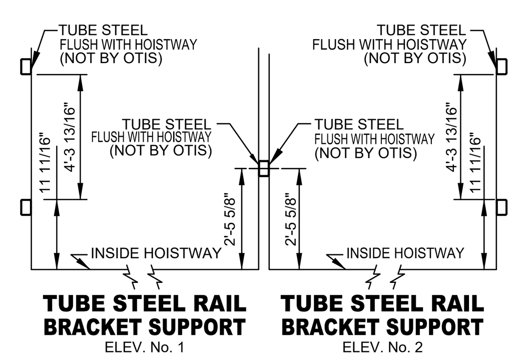
- MINIMUM FLOOR HEIGHT IS 8'-3" [2515mm] with 7'-0" [2134] ENTRANCE
- MAXIMUM FLOOR HEIGHT IS 20'-0"
- HOISTWAY LIGHT SWITCH LOCATED 3'-0" [914] ABOVE TOP LANDING COORDINATE WITH OTIS
- 8'-0" [2438] ENTRANCE AVAILABLE WITH 9'-9" [2819] CAB.
- IF HOISTWAY VENTILATION IS REQUIRED, THE LOCATION CANNOT BE LOCATED ABOVE OR NEAR THE MACHINE OF THE ELEVATOR SYSTEM.

STANDARD WORKING RANGES



DETAIL "A" SILL SUPPORT

ADEQUATE SUPPORT AT ALL FASTENING POINTS OF ENTRANCE ASSEMBLY REQUIRED. MUST WITHSTAND A HORIZONTAL PULL-OUT FORCE OF 140 LBS. @ EA. FASTENING POINT (8 @ EA. ENTRANCE) INCLUDING SUPPORT FOR CENTER SILL SUPPORT BRACKET (NOT BY OTIS).



RAIL FORCE & BRACKET SPACING DETAIL

SEE NOTES 6 & 7

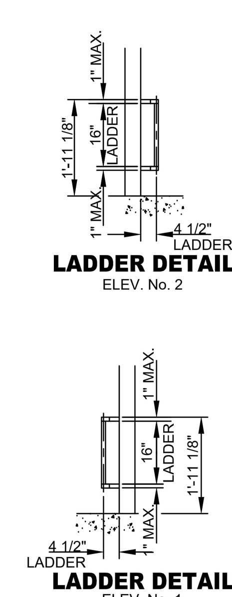
CAR	R1	413 lbs
	R2	64 lbs
	VX	N/A
	VY	N/A
	MAXIMUM BRACKET SPACING	12'-0"
	RAIL SIZE	1-1/2
CWT	R1	218 lbs
	R2	16 lbs
	VX	N/A
	VY	N/A
	MAXIMUM BRACKET SPACING	12'-0"
	RAIL SIZE	2
DEH (DEAD END HITCH)	R1	580 lbs
	R2	1220 lbs

IN MULTICAR GROUPS THE VALUES ABOVE ARE THE LARGEST VALUES FOR THE ENTIRE GROUP

FIRST INTERMEDIATE RAIL SUPPORT LOCATION TO BE LOCATED 14' 0" FROM PIT FLOOR. ALL OTHER INTERMEDIATE SUPPORTS CANNOT EXCEED THE MAXIMUM BRACKET SPACING IN THE RAIL FORCE & BRACKET SPACING DETAIL

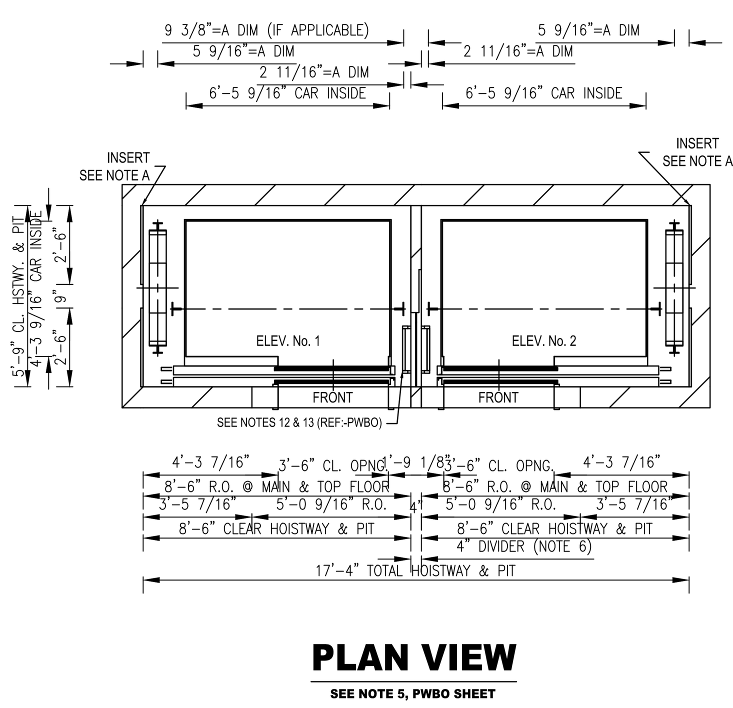
CAR R1 = SAFETY APPLICATION
CWT R1 = LOADING OR RUNNING
R2 = LOADING OR RUNNING

REQUIREMENTS FOR RAIL BRACKET SUPPORT (NOT BY OTIS):
DEFLECTION NOT TO EXCEED 1/8" BASED ON HORIZONTAL RAIL FORCES.



LADDER DETAIL
ELEV. No. 2

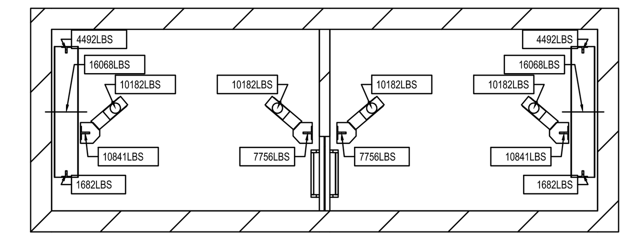
LADDER DETAIL
ELEV. No. 1



PLAN VIEW

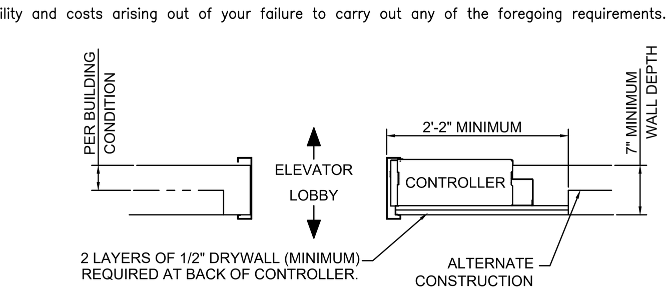
SEE NOTE 5, PWBO SHEET

*NOTE SEE FLOOR PLAN FOR ACTUAL ELEVATOR LAYOUT.

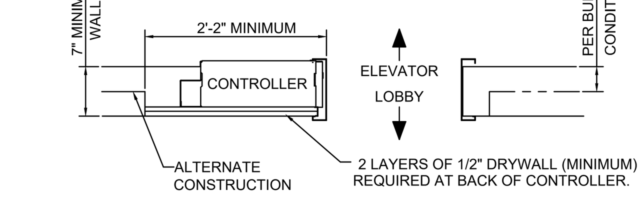


PIT PLAN VIEW

FORCE SHOWN INCLUDES DOUBLING FOR IMPACT



TOP LANDING ENTRANCE REQUIREMENTS
(MUST BE LOCATED AT THE TOP ENTRANCE)
ELEV. No. 2



TOP LANDING ENTRANCE REQUIREMENTS
(MUST BE LOCATED AT THE TOP ENTRANCE)
ELEV. No. 1

NOTE A
THESE DIMENSIONS ARE BASED ON HOISTWAY SIZES SHOWN & 30" INSERTS. IF EITHER OF THESE VARY, CONSULT THE SALES REPRESENTATIVE.

APPROVAL
THIS ARRANGEMENT AND SUPPLEMENTARY NOTES APPROVED
SIGNED: ____________ DATE: ____________

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Gen2® 2500 # 150 F.P.M.
CAR TYPE = PASSENGER CONTROLLER LOCATION = ENTR
SEISMIC = ZONE0 GLASS BACK CAR = N

OTIS

REVISION DATE: 1/15/2020	
DWG. NO.: G2S 2500-PN	
BUILDING	
LOCATION	
CONT. WITH	
OWNER	
ARCHT.	
CONTRACT NO.	

REVISIONS

Number	Date:	Remarks:	Number	Date:	Remarks:
X	00-00-00	N/A			

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SEAL
STATE OF GEORGIA
BENJAMIN MERCER CARTER
CERTIFICATE NO. 008977
REGISTERED ARCHITECT

WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER
DALTON, GEORGIA

SHEET TITLE:
ELEVATOR DETAILS

PRINTED:

NUMBER:
A-308

WHITFIELD COUNTY GYM PRINTED DATE: 10/14/20

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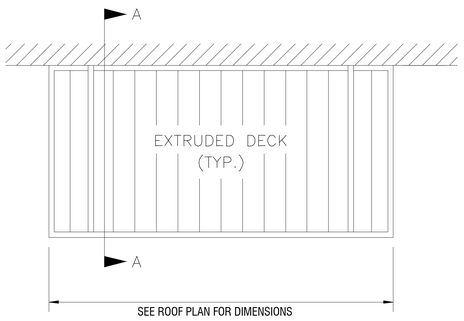
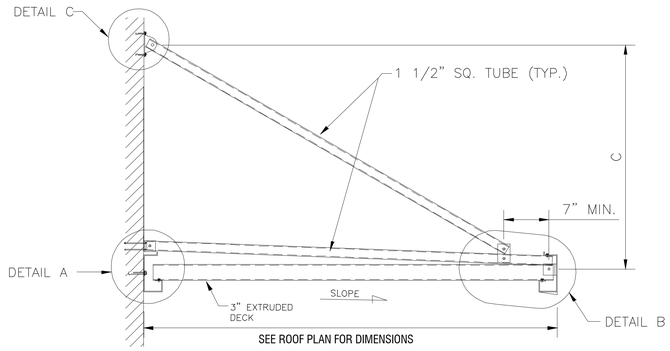
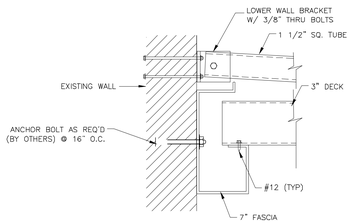
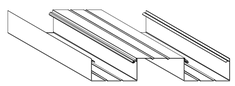




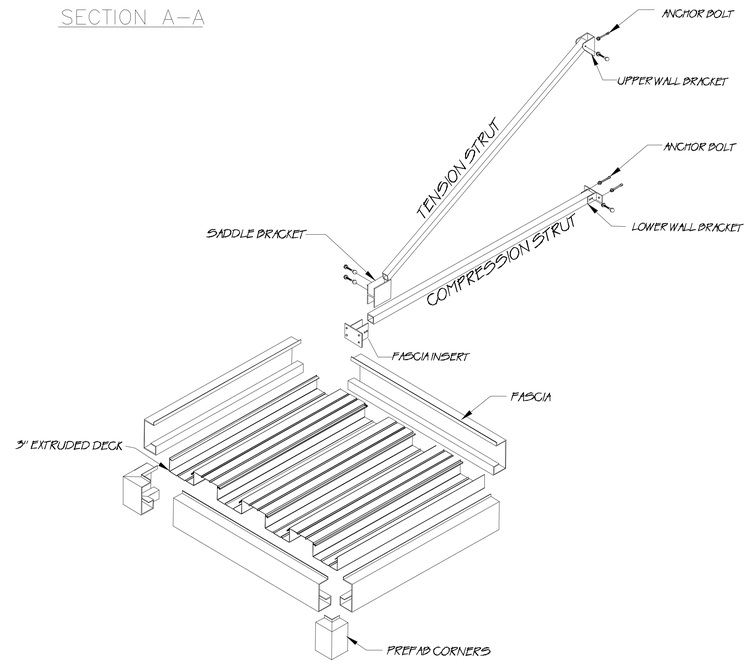
SECTION A–A



DETAIL A

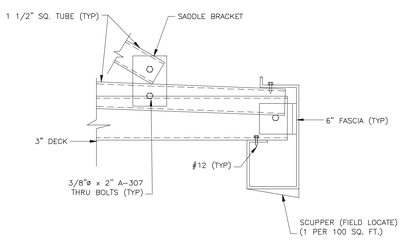


3" DECK

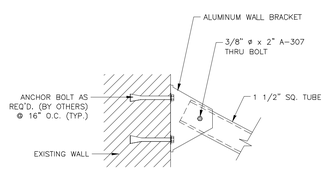


1 WALL HUNG CANOPY

3/4" = 1'-0"



DETAIL B



DETAIL C

GENERAL NOTES:

1) COMPONENT MATERIAL
   ROOF PANEL: 3" x 6" x .060 DECK EXTRUDED ALUMINUM 6063–T6 ALLOY

   FASCIA: 6" x 3" x .080" EXTRUDED ALUMINUM 6063–T6 ALLOY

   HANGERS: 1 1/2" SQUARE TUBE EXTRUDED ALUMINUM TUBE 6063–T6

   FASTENER: FOR ALL PANELS AND TRIM CONNECTIONS USE #12 x 3/4" SS, HEX HEAD CADMIUM PLATED. PANEL TO BEAM CONNECTIONS TO BE #12 x 3/4" TEK WITH NEOPRENE WASHERS. BOLTS GREATER THAN 1/4" TO BE ASTME=307 STEEL OR EQUAL; GALVANIZED.
2) CHECK TO ENSURE DIMENSIONS SHOWN ARE CORRECT WITH FIELD MEASUREMENTS. ONE SET OF APPROVED SHOP DRAWINGS MUST BE RETURNED TO BALLEW'S BUILDING PRODUCTS GROUP PRIOR TO RELEASE OF CANOPY FOR FABRICATION.
3) ROOF PANELS MUST BE PITCHED 1/4" PER FOOT MINIMUM.
4) THE STRUCTURE IS NOT DESIGNED TO BE ENCLOSED IN ANY WAY. THE STRUCTURE HAS NOT BEEN DESIGNED TO RESIST LATERAL LOADS WHICH WOULD BE IMPOSED BY WIND LOADS ON ENCLOSURE WALL.
5) DISSIMILAR METALS MUST BE SEPARATED BY PAINTING WITH BITUMINOUS PAINT OR OTHER ACCEPTABLE COATING OR NEOPRENE GASKET MATERIAL TO PREVENT GALVANIC ACTION.
6) IT IS THE RESPONSIBILITY OF OTHERS TO CHECK THE ADEQUACY OF THE EXISTING BUILDING WALLS TO ASSURE THAT IT WILL RESIST IMPOSED LOADS.
7) SNOW DRIFT AND/OR SLIDING SNOW LOADS HAVE NOT BEEN TAKEN INTO CONSIDERATION. IF THERE IS ANY CHANCE OF SNOW DRIFT AND/OR SLIDING SNOW LOADS ON THE CANOPY, CUSTOMER WILL HAVE TO PROVIDE REQUIRED INFORMATION (BUILDING DIMENSIONS) TO BALLEW'S BUILDING PRODUCTS AND RETURN DRAWINGS FOR REQUOTE AND REDESIGN.

NOTES: CANOPY

1. SUBMIT SHOP DRAWINGS SHOWING ACTUAL AS-BUILT CONDITIONS, DIMENSIONS, CONNECTIONS, FRAMING, ETC. AS REQUIRED FOR EACH NEW CONSTRUCTED CANOPY.

2. SHOP DRAWINGS TO BE STAMPED BY A GEORGIA REGISTERED ENGINEER.

3. PROVIDE FACTORY INSTALLED 3X3 DOWNSPOUTS. SEE ROOF PLAN LOCATIONS.

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REVISIONS

Number	Date:	Remarks:	Number	Date:	Remarks:
X	00-00-00	N/A			

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SEAL

STATE OF GEORGIA
BENJAMIN MERCER KAMPER
CERTIFICATE NO. 025-4
REGISTERED ARCHITECT

WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER

DALTON, GEORGIA

SHEET TITLE:
AWNING DETAILS

PRINTED:

NUMBER:
A-309

WHITFIELD COUNTY GYM PRINTED DATE: 10/14/20

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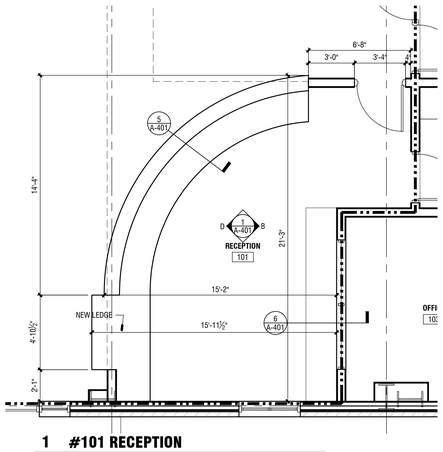
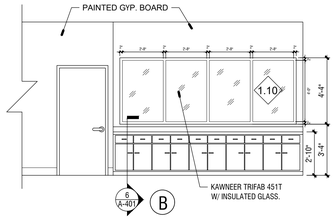
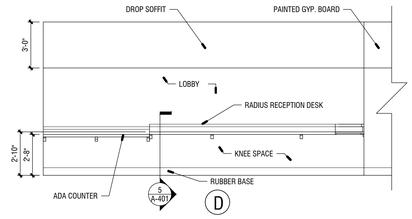
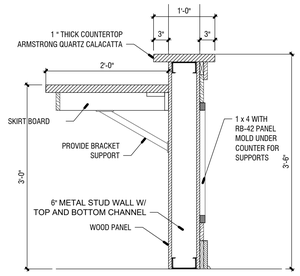


1 #101 RECEPTION

1/4" = 1'-0"

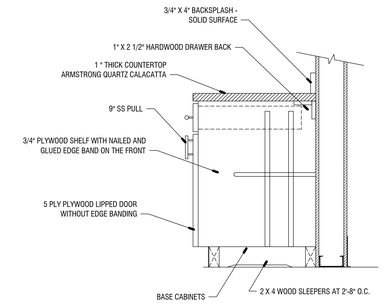






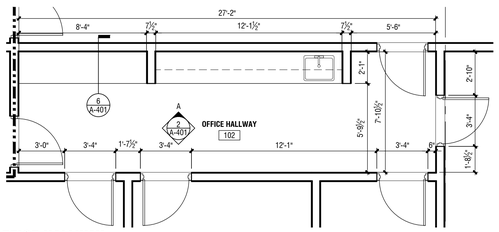
5 RECEPTION DESK SECTION

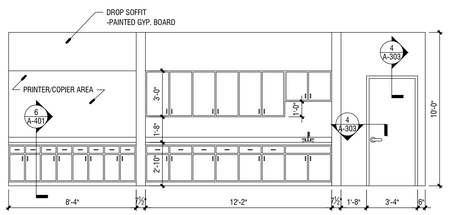
1" = 1'-0"



6 HALLWAY CABINET SECTION

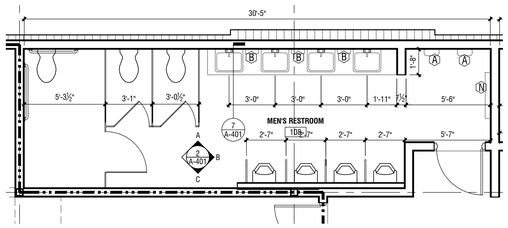
1" = 1'-0"





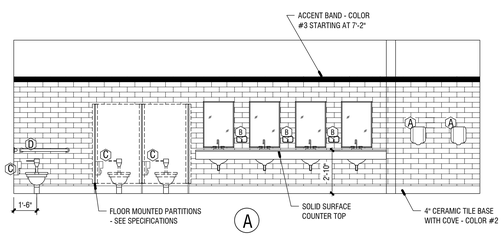
2 #102 OFFICE HALLWAY

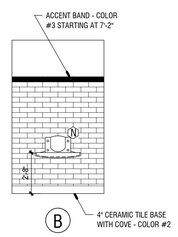
1/4" = 1'-0"

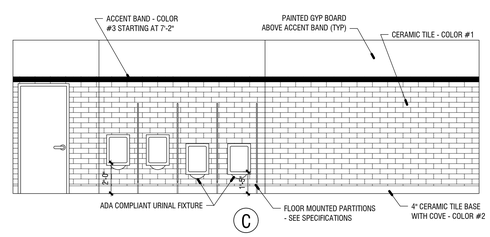


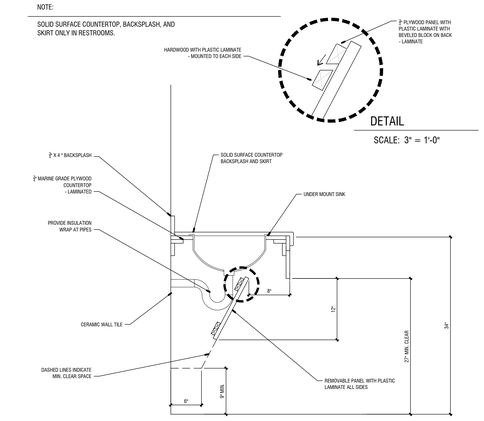
3 #108 MEN'S RESTROOM

1/4" = 1'-0"



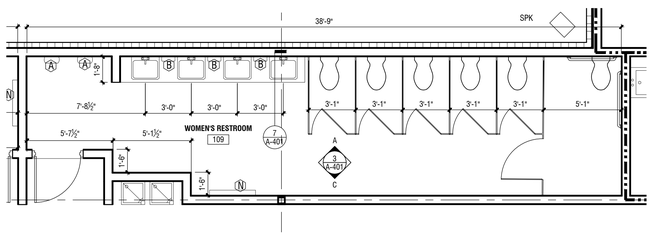






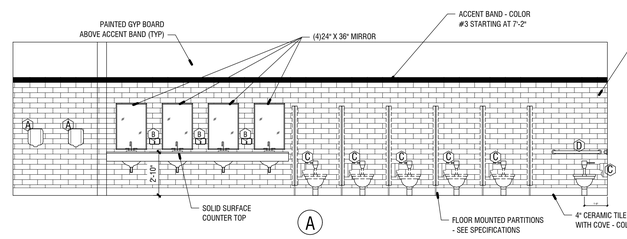
7 SINK SECTION

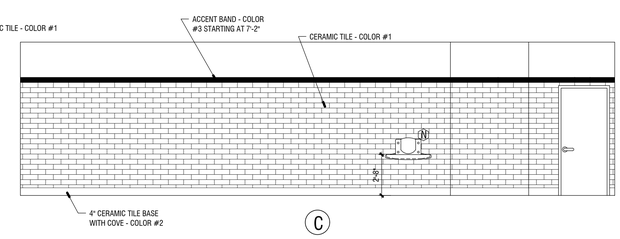
1" = 1'-0"

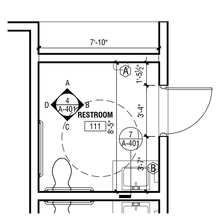


4 #109 WOMEN'S RESTROOM

1/4" = 1'-0"

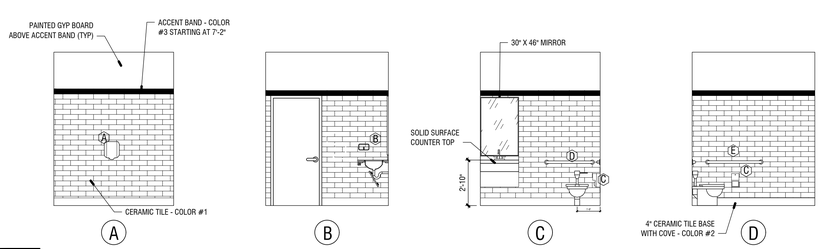






5 #111 RESTROOM

1/4" = 1'-0"



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SEAL

STATE OF GEORGIA
BENJAMIN MERCER LANIER
CERTIFICATE NO. 025-0001
REGISTERED ARCHITECT

WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER

DALTON, GEORGIA

SHEET TITLE: INTERIOR ELEVATIONS

PRINTED:

NUMBER: A-401

WHITFIELD COUNTY GYM PRINTED DATE: 10/14/20

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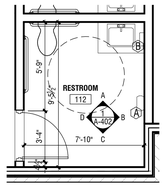
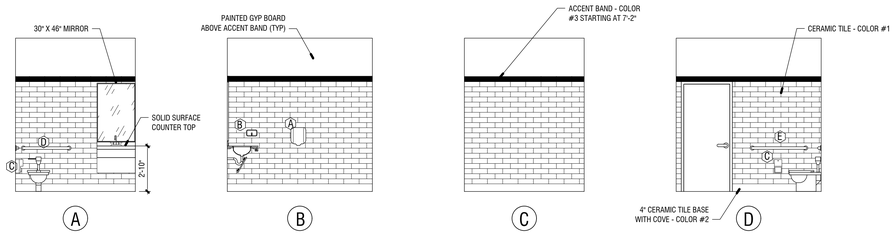
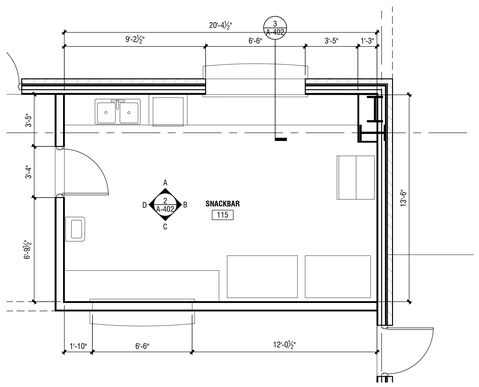
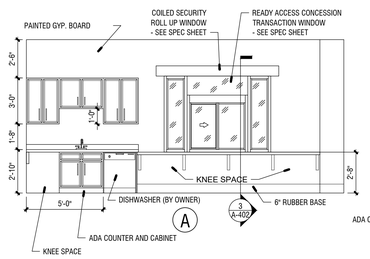


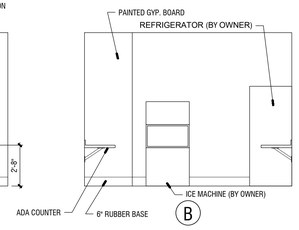


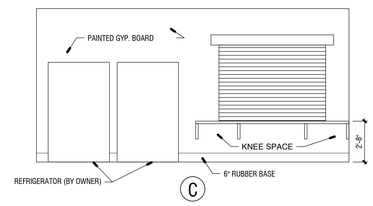
1 #112 RESTROOM

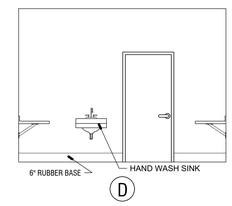
1/4" = 1'-0"





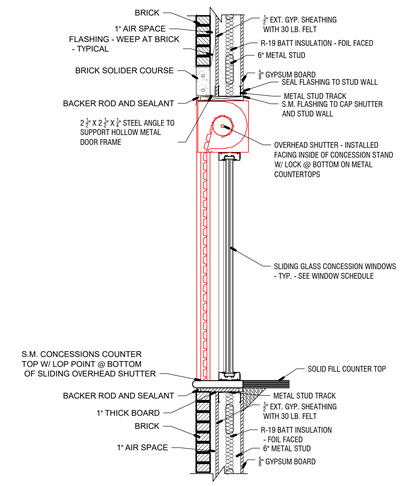






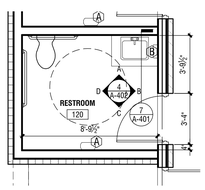
2 #115 SNACKBAR

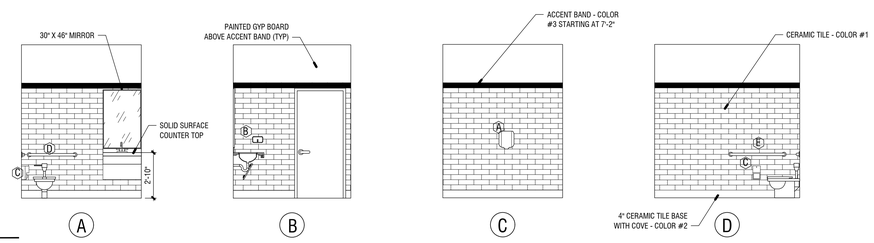
1/4" = 1'-0"



3 #115 SNACKBAR FIRE SHUTTER

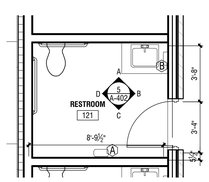
3/4" = 1'-0"

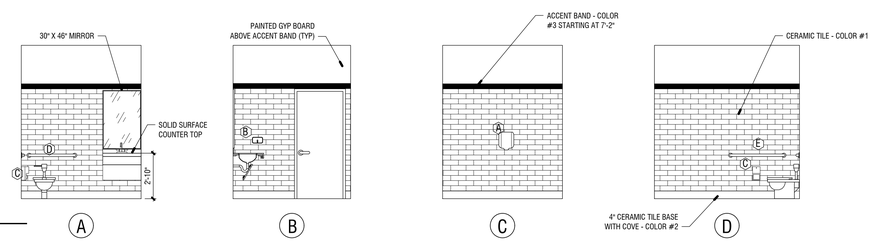




4 #120 RESTROOM

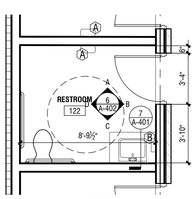
1/4" = 1'-0"

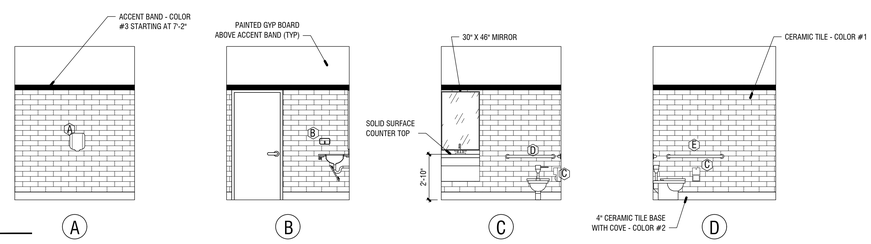




5 #121 RESTROOM

1/4" = 1'-0"





6 #122 RESTROOM

1/4" = 1'-0"

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SEAL

STATE OF GEORGIA — BENJAMIN MERCER KARNER — CERTIFICATE NO. 0PA01 — REGISTERED ARCHITECT

WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER

DALTON, GEORGIA

SHEET TITLE: INTERIOR ELEVATIONS (CONT.)

PRINTED:

NUMBER: A-402

WHITFIELD COUNTY GYM PRINTED DATE: 10/14/20

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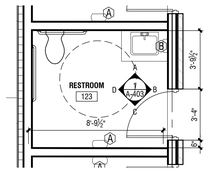
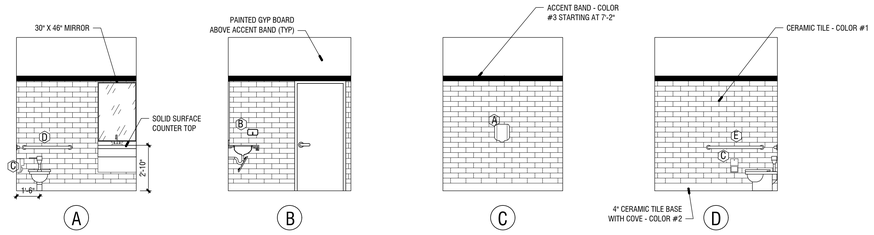
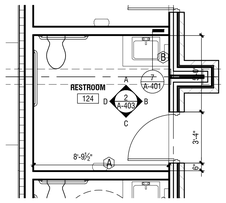


1 #123 RESTROOM

1/4" = 1'-0"





2 #124 RESTROOM

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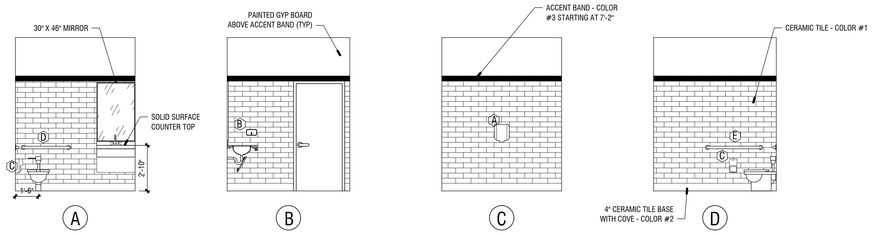
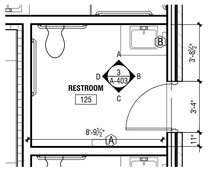
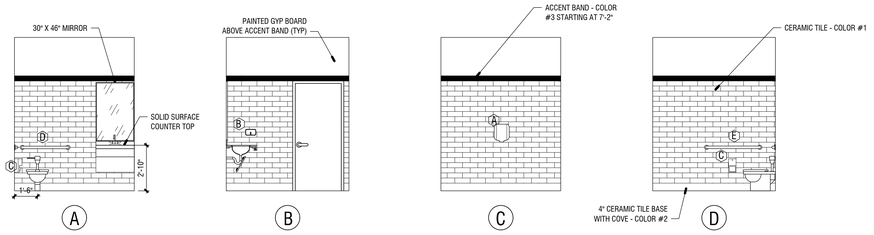
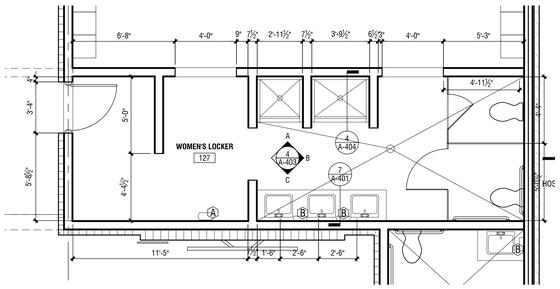




3 #125 RESTROOM

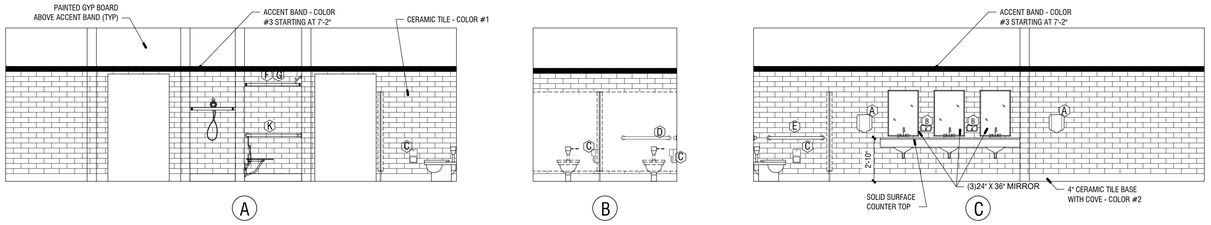
1/4" = 1'-0"

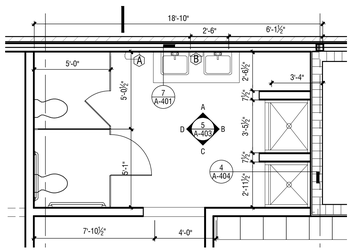




4 #127 WOMEN'S LOCKER

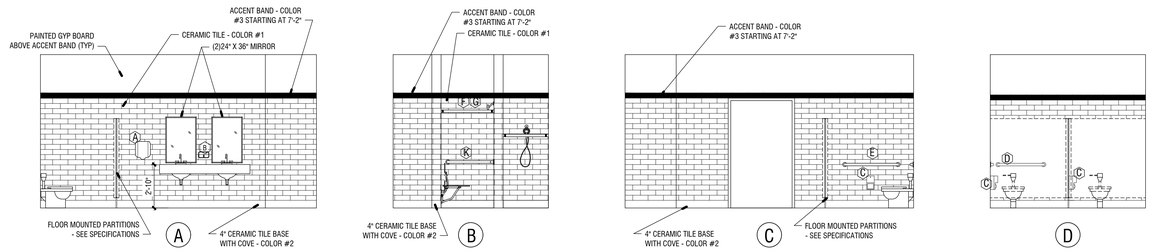
1/4" = 1'-0"





5 #129 MEN'S LOCKER

1/4" = 1'-0"



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STATE OF GEORGIA
BENJAMIN MERCER KAMPER
CERTIFICATE NO. 0[illegible]
REGISTERED ARCHITECT

WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER

DALTON, GEORGIA

SHEET TITLE: INTERIOR ELEVATIONS (CONT.)

PRINTED:

NUMBER: A-403

WHITFIELD COUNTY GYM PRINTED DATE: 10/14/20

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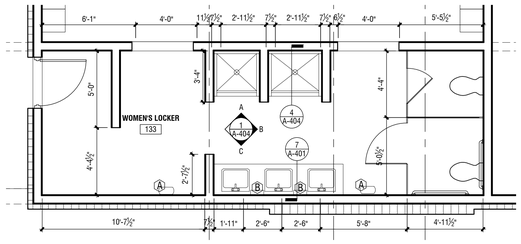
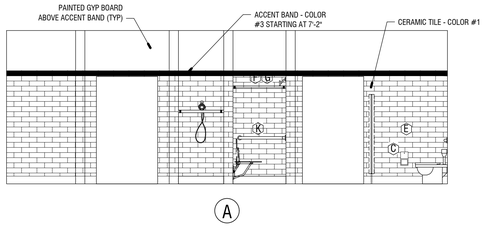
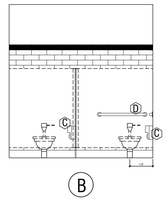
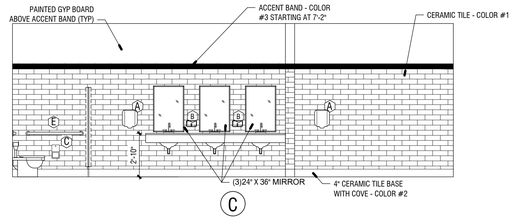


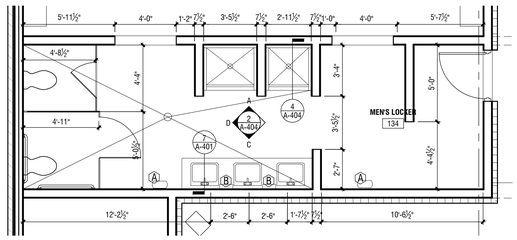
1 #133 WOMEN'S LOCKER

1/4" = 1'-0"



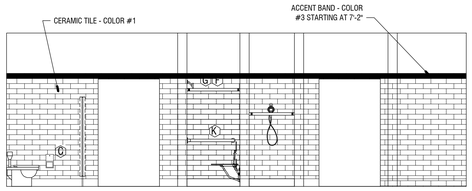


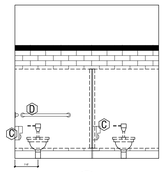


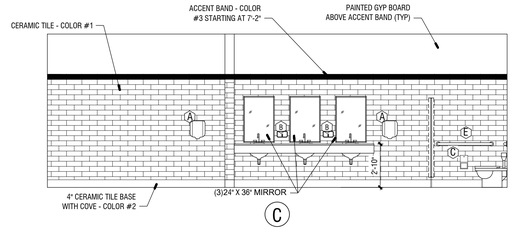


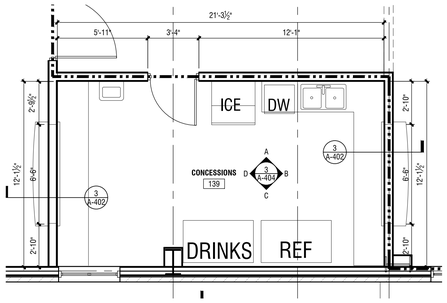
2 #134 MEN'S LOCKER

1/4" = 1'-0"



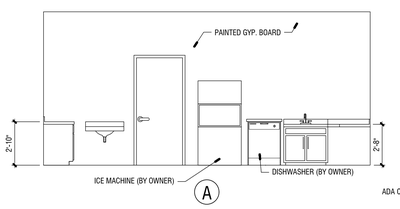


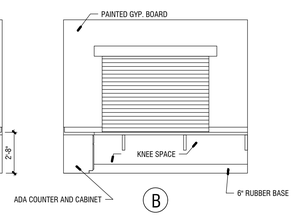


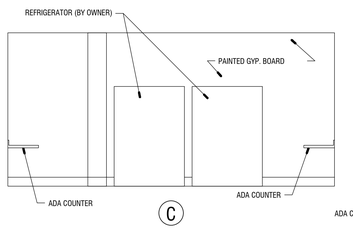


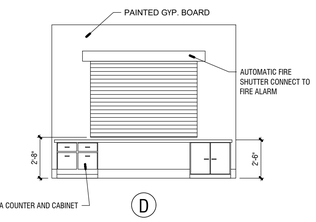
3 #139 CONCESSIONS

1/4" = 1'-0"



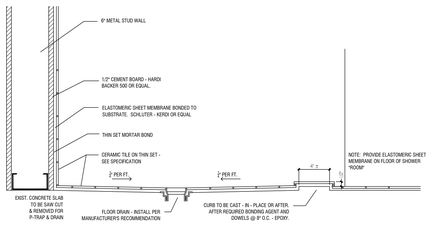






MILLWORK NOTES:

1. SUBMIT COMPREHENSIVE SHOP DRAWINGS FOR ALL MILLWORK. SHOW ALL DETAILS, HARDWARE, ANCHORING, ANCHORING DEVICES, DIMENSIONS, BLOCKING, ETC.
2 RECEPTION DESK COUNTERTOP AND BACKSPLASH TO BE QUARTZ ALL OTHER COUNTERS TO BE SOLID SURFACE COUNTERS
3. ALL INTERIOR SURFACES TO BE MELAMINE. EXTERIOR TO BE PLASTIC LAMINATE. ALLOW TWO COLORS OF PLASTIC LAMINATE ONE FOR CABINET FRAMES, DOOR, DRAWERS, ETC.. COLORS ARE TO BE SELECTED FROM WILSONART COLOR SELECTIONS AND SHALL NOT BE LIMITED BY AVAILABILITY.
4. COORDINATE ALL RELATED WORK INCLUDING ELECTRICAL, PLUMBING, EQUIPMENT, ETC. AND PROVIDE ACCOMMODATIONS FOR SUCH.
5. PROVIDE ALL REQUIRED BLOCKING FOR MILLWORK INSTALLATION.
6. SEE SPECIFICATIONS FOR SPECIFIC PRODUCT INFORMATION.
7. COORDINATE MILLWORK WITH "BUILT" DIMENSIONS. SHOP DRAWINGS SHALL REFLECT ACTUAL VERIFIED DIMENSIONS.
8. ALL BASE CABINETS TO HAVE ONE ADJUSTABLE, FULL DEPTH SHELF.
9. ALL WALL CABINETS TO HAVE THREE FULL DEPTH, ADJUSTABLE SHELVES. WALL CABINETS SHALL BE 12" DEEP. UNITS ABOVE SINKS, REFRIGERATORS, STOVES, ETC. TO HAVE ONE FULL DEPTH, ADJUSTABLE SHELF.
10. ALL DOORS AND DRAWER FACES TO BE 5/8" PLYWOOD. NO PARTICLE BOARD WILL BE ACCEPTED ON ANY PORTION OF THE MILLWORK.
11. PROVIDE EDGE BANDING ON ALL FOUR SIDES OF SHELVING - TYPICAL.
12. ALL MILLWORK TO BE EURO STYLE (FRAMELESS) TYPE WITH HARDWOOD WEBBING.
13. PROVIDE SQUARE 1 1/2" EDGES ON ALL COUNTERTOPS.
14. APPLY LAMINATE TO COUNTERTOP SIDES PRIOR TO APPLYING TOPS.
15. PROVIDE HARDWOOD SLEEPERS AT 24" O.C. UNDER ALL CABINETS - TYPICAL.



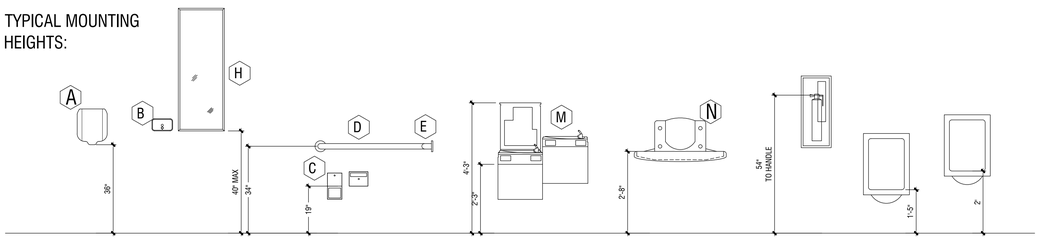
4 SHOWER SECTION

1 1/2" = 1'-0"

TOILET ACCESSORIES

Item	Description	Model No.	
A	ELECTRICAL HAND DRYER	ASI-PROUDCT: 0199-1/2/3	36" A.F.F.
B	SOAP DISPENSER	FURNISHED BY OWNER INSTALLED BY G.C.	40" TO SPOUT
C	TOILET TISSUE DISP.	FURNISHED BY OWNER INSTALLED BY G.C.	19" TO CENTERLINE
D	42" HANDICAP GRAB BAR NON-SLIP GRIP	ASI - SECURITY SERIES	34" A.F.F.
E	36" HANDICAP GRAB BAR NON-SLIP GRIP	ASI - SECURITY SERIES	34" A.F.F
F	Shower Curtain Rod-Concealed mt.	ASI - MODEL 1204	74" VERIFY
G	Shower hooks & curtain	ASI - MODEL 1200-SHU AND 1200-V	
H	Mirrors	ASI - MODEL 8287	40" TO BOTTOM
I	HOOKS AND BUMPERS	ASI - MODELS 0751/8425	2 @ EACH SHOWER 60" A.F.F.
J	SHOWER SEAT	ASI - MODEL 0010	18" TO TOP
K	30" Handicap Grab Bar-Non-slip grip	ASI - SECURITY SERIES	34" A.F.F
L	24" Handicap Grab Bar-Non-slip grip	ASI - SECURITY SERIES	34" A.F.F.
M	DUAL DRINKING FOUNTAINS W/ BOTTLE FILL	OASIS VERSACOOLERS II W/ HANDS FREE QUASAR	
N	FOLDING BABY CHANGING STATION	ASI - HORIZONTAL BABY CHANGING STATION / MODEL 9012	32" A.F.F.

TYPICAL MOUNTING HEIGHTS:

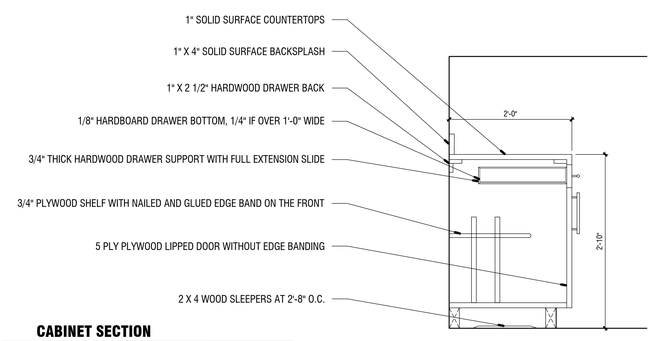


TOILET ACCESSORY NOTES:

1. ALL ACCESSORIES SHALL BE CHROME FINISH.

2. COORDINATE LOCATION OF ACCESSORIES WITH NECESSARY BLOCKING, ELECTRICAL SWITCH AND WIRING LOCATIONS ETC. TO ENSURE PROPER CLEARANCES AND MOUNTING HEIGHTS. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING.

NOTE: MAINTAIN 30" X 48" CLEAR FLOOR SPACE AT DRINKING FOUNTAINS



CABINET SECTION

1" = 1'-0"

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Oct 14 2020 | T:\SHARED CAD\Projects 2019\Whitfield County Gym\WHITFIELD COUNTY GYM\Sheets\A-404 INTERIOR ELEVATIONS (CONT.).dwg

WHITFIELD COUNTY GYM PRINTED DATE: 10/14/20

REVISIONS

Number	Date:	Remarks:	Number	Date:	Remarks:
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DALTON, GEORGIA

SHEET TITLE: INTERIOR ELEVATIONS (CONT.)

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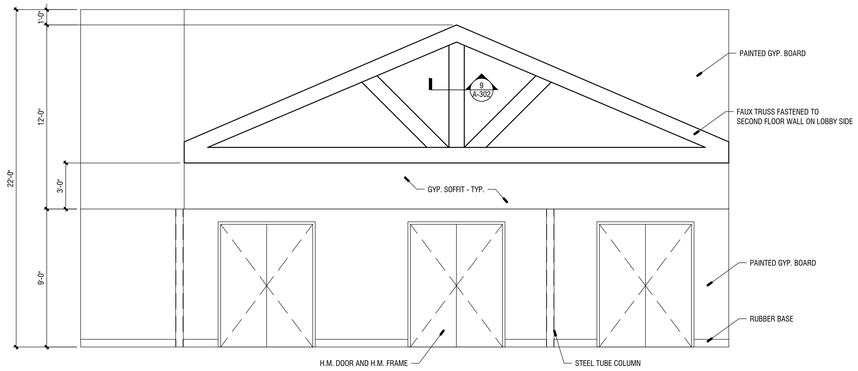
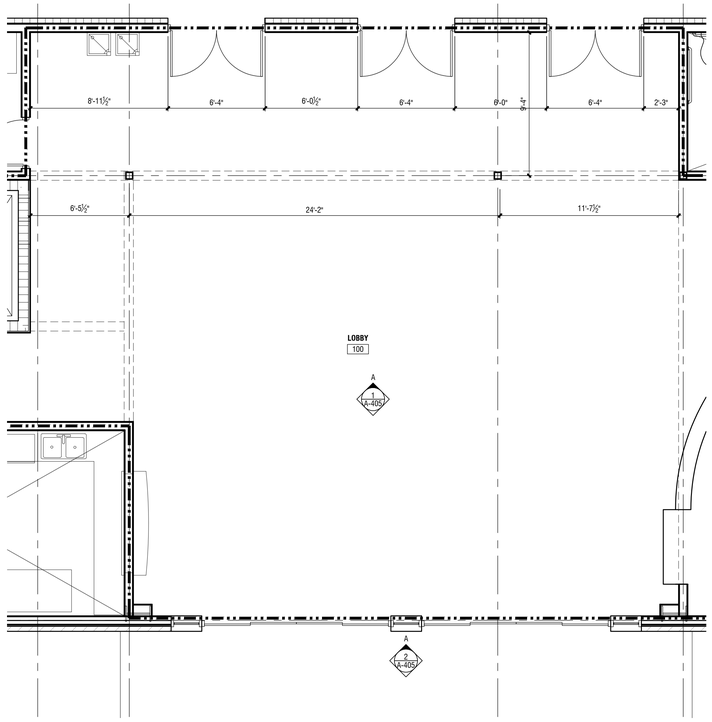
NUMBER: A-404



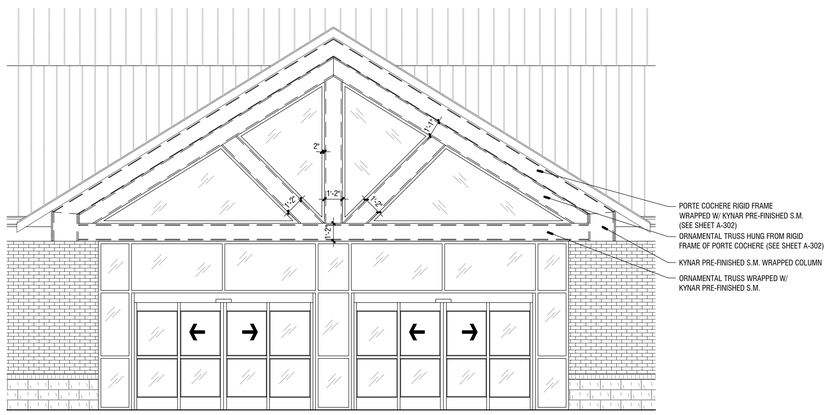
1 #100 LOBBY

1/4" = 1'-0"



3 #100 LOBBY ENLARGED FP

1/4" = 1'-0"



2 FRONT ENTRANCE (UNDER PORTE COCHERE)

1/4" = 1'-0"

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WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER
DALTON, GEORGIA

SHEET TITLE: INTERIOR ELEVATIONS (CONT.)

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NUMBER: **A-405**

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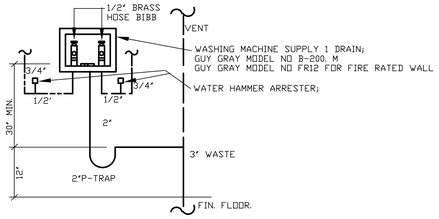
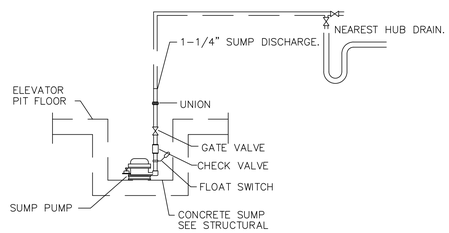


DETAIL-WASHING MACHINE CONNECTION

N.T.S.

LEGEND		
SAN	SOIL AND WASTE PIPING	SAN
V	VENT PIPING	V V
C.W.	COLD WATER PIPING	
H.W.	HOT WATER PIPING	
HWR	HOT WATER RECIRCULATING	
G.V.	GATE VALVE	
W	WASTE	
V	VENT	
V.T.R.	VENT THRU ROOF	
F.D.	FLOOR DRAIN	
H.D.	HUB DRAIN	
F.S.	FLOOR SINK	
T&P	TEMPERATURE AND PRESSURE	
A.F.	ABOVE FINISH FLOOR	
A/C	ABOVE CEILING	
U.F.	UNDER FLOOR SLAB	
WH "A"	WATER HAMMER ARRESTOR	
P1	INDICATES EQUIPMENT NUMBER FOR PLUMBING	
	ONLY	

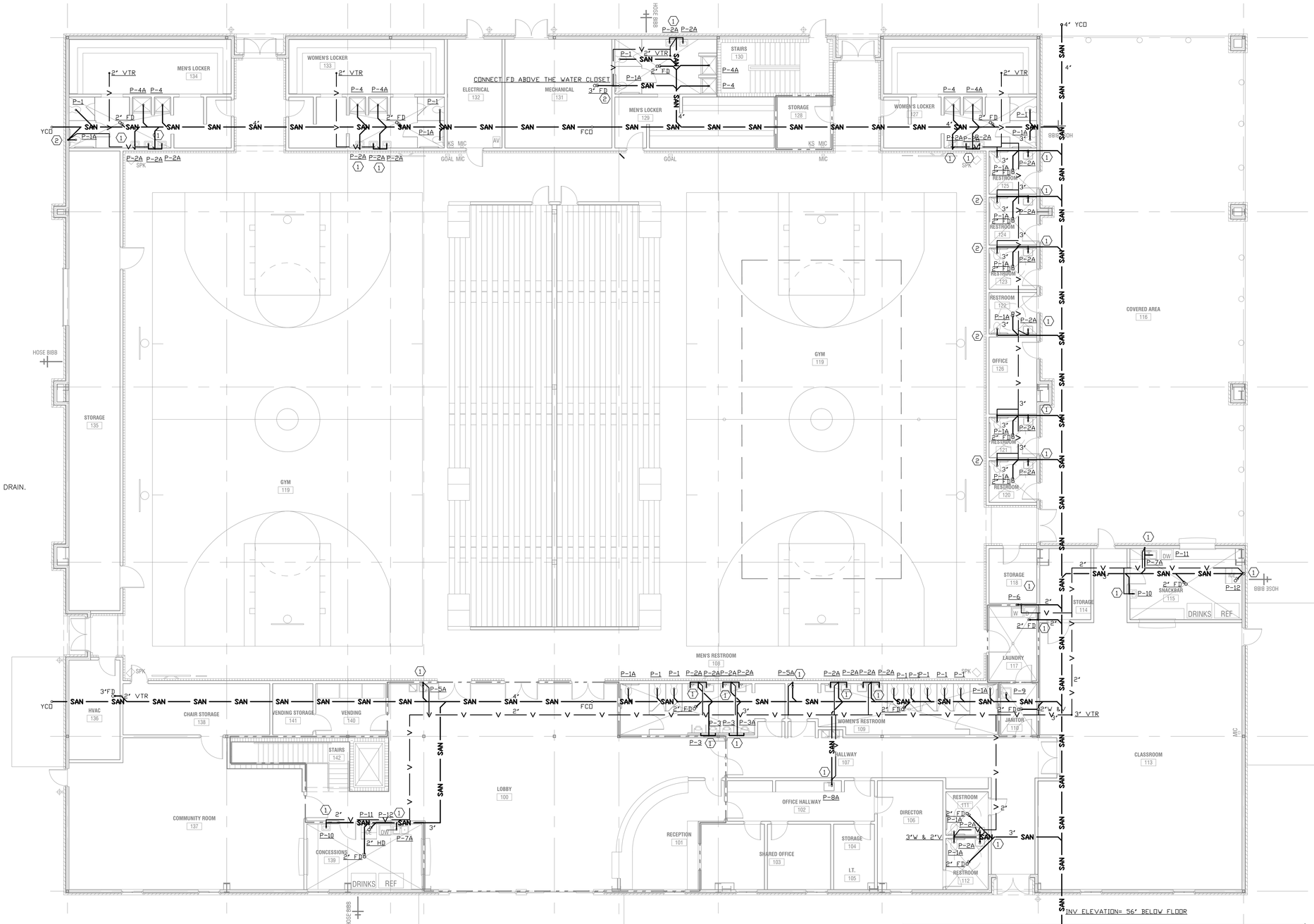


PUMP: STANCOR, SE-50, 115/1/60, 0.5 HP WITH OIL MINDER CONTROL AND ACCESSORIES. AND FLOAT SWITCH

COORDINATE POWER WITH GC AND ELECTRICAL CONTRACTOR

ELEVATOR SUMP DETAIL

N.T.S.



KEY NOTES:

1. 2" W & V
2. 3" W & 2" V

FIRST FLOOR PLAN-SANITARY

1/8"=1'-0"

PLUMBING FIXTURE CONNECTION SCHEDULE						
SYMBOL	FIXTURE	RUN OUT SIZES			MTG HT.	DESCRIPTION
		W	CW	HW		
P-1	WATER CLOSET (FLUSH)	3"	1"	-	15"	15" FLOOR TO RIM
P-1A	WATER CLOSET (FLUSH)	3"	1"	-	18"	18" FLOOR TO RIM (HANDICAPPED)
P-2	LAVATORY (WALL)	1 1/4"	1/2"	1/2"	29"	29" FLOOR TO BOTTOM OF APRON
P-2A	LAVATORY (WALL)	1 1/4"	1/2"	1/2"	29"	29" FLOOR TO BOTTOM OF APRON (HANDICAPPED)
P-3	URINAL	2"	3/4"	-	24"	24" FLOOR TO LIP
P-3A	URINAL	2"	3/4"	-	17"	17" FLOOR TO LIP (HANDICAPPED)
P-4	SHOWER	2"	1/2"	1/2"	-	SHOWER HEAD 66" AFF, VALVE-38" TO 48" AFF
P-4A	SHOWER	2"	1/2"	1/2"	-	SHOWER HEAD 66" AFF, VALVE-38" TO 48" AFF
P-5A	WATER COOLER	1 1/4"	1/2"	-	36"	36" FLOOR TO SPOUT (HANDICAPPED)
P-6	CLOTH WASHER	2"	1/2"	-		SEE DETAIL
P-7A	DBL COMP. SINK	1 1/2"	1/2"	1/2"	-	COUNTER TOP
P-8A	SINGLE COMP. SINK	1 1/4"	1/2"	1/2"	-	COUNTER TOP
P-9	SERVICE SINK	3"	1/2"	1/2"	26 1/4"	26 1/4" FLOOR TO RIM
P-10	HAND SINK	1 1/4"	1/2"	1/2"	29"	29" FLOOR TO BOTTOM OF APRON
P-11	ICE MACHINE		1/2"			HUB DRAIN
P-12	DISHWASHER			1/2"		DRAIN TO NEXT SINK TRAP

1. SEE ARCHITECT DRAWINGS FOR THE ELEVATION AND LOCATION.

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WHITFIELD COUNTY GYM PRINTED DATE: 09/16/20

Sep 16 2020 | C:\2020-020whitfield gym\2020-020p1.dwg

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file: 2020-020P1.DWG

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GEORGIA REGISTERED NO. 015330 PROFESSIONAL ENGINEER

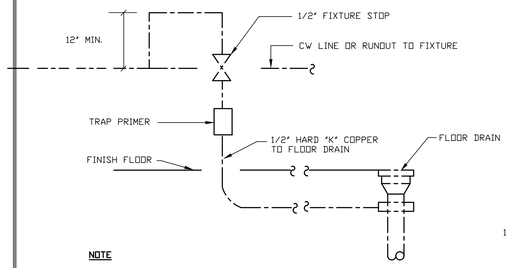
WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER

DALTON, GEORGIA

SHEET TITLE:
FIRST FLOOR PLAN -SANITARY
LEGEND & FIX. CONN. SCHEDULE

PRINTED:

NUMBER:
P-1



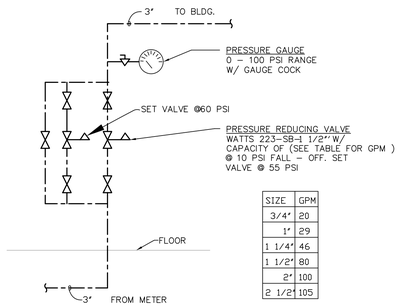
NOTE

IF TRAP PRIMER IS LOCATED IN UNACCESSIBLE AREA. PROVIDE 16" X 16" MILCOR 3202-014 STAINLESS STEEL ACCESS PANEL

DETAIL - TRAP PRIMER

SCHEMATIC

TRAP SEAL PRIMER SHALL BE:
PRECISION PLUMBING PRODUCTS, INC.
MODEL P-2 FOR ONE (1) TWO (2) DRAIN WITH DISTRIBUTION UNIT.
MODEL P-1 WITH DISTRIBUTION UNIT PRIMING THREE (3) TO EIGHT (8) DRAINS.



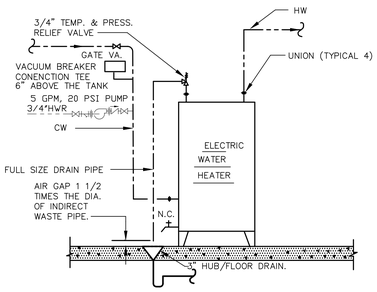
SIZE	GPM
3/4"	20
1"	29
1 1/4"	46
1 1/2"	80
2"	100
2 1/2"	105

IF WATER PRESSURE IS LESS THAN 80 PSIG THEN DO NOT INSTALL PRV .

WATER RISER DETAIL

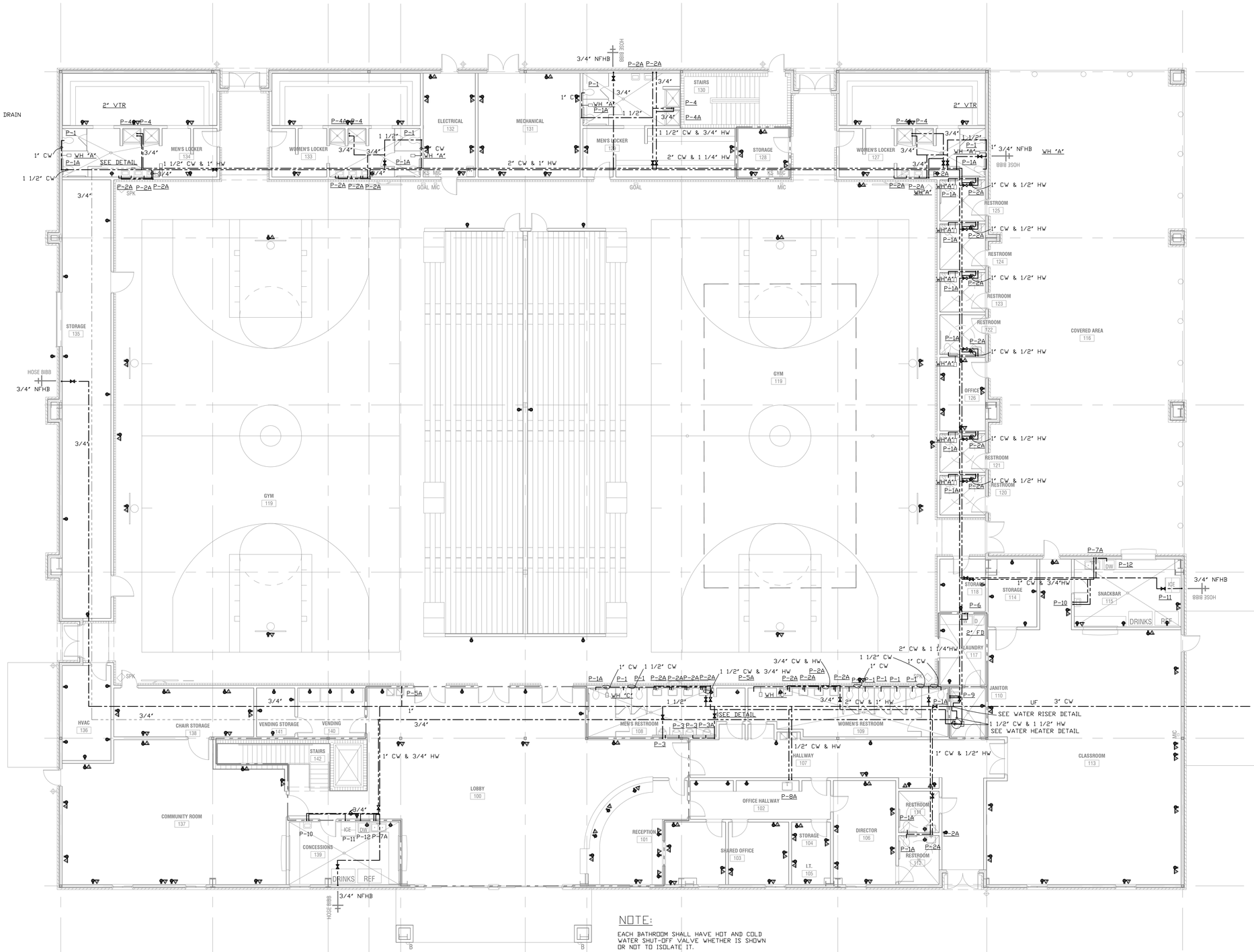
NO SCALE - SCHEMATIC ONLY

HOT WATER RIECIRCULATING PIPE CONNECTION AT THE END



WATER HEATER DETAIL

SCALE: NONE



NOTE:

EACH BATHROOM SHALL HAVE HOT AND COLD WATER SHUT-OFF VALVE WHETHER IS SHOWN OR NOT TO ISOLATE IT.

FIRST FLOOR PLAN-WATER

1/8"=1'-0"

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WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER

DALTON, GEORGIA

SHEET TITLE: FIRST FLOOR PLAN -WATER DETAILS

PRINTED:

NUMBER: P-2

PLUMBING GENERAL NOTES

1. CONTRACTOR SHALL BRING TO THE ATTENTION OF ARCHITECT ANY CONFLICTS OF WORK PRIOR TO PURCHASE OF EQUIPMENT OR COMMENCEMENT OF WORK.

2. CONTRACTOR SHALL VISIT THE JOB SITE AND HAVE A GOOD WORKING KNOWLEDGE AND ACQUAINTANCE OF THE EXISTING JOB SITE AS WELL AS THE CONDITIONS OF THE JOB SITE AND INCLUDE A STATEMENT ON HIS BID THAT HE HAS DONE SO.

3. REQUEST FOR PAYMENT FOR ADDITIONAL COSTS DUE TO SITE CONDITIONS WILL NOT BE ALLOWED.

4. FURNISH ALL PLAN, LABOR, EQUIPMENT, (EXCEPT AS OTHERWISE INDICATED AND AGREED UPON), AND MATERIALS AS INDICATED, AND PERFORM ALL OPERATIONS IN CONNECTION WITH THE INSTALLATION OF A COMPLETE PLUMBING SYSTEM.

5. THE WORK UNDER THIS SECTION SHALL COMPLY AS MINIMUM REQUIREMENTS WITH APPLICABLE LAWS, ORDINANCES, CODES, AND REGULATIONS OF THE COUNTY, STATE, AND CITY WHERE INSTALLED. WHERE THE REQUIREMENTS OF THESE SPECIFICATIONS ARE MORE THAN RESTRICTIVE THAN APPLICABLE CODES AND REGULATIONS DESCRIBED ABOVE, THE REQUIREMENTS OF PLANS AND SPECIFICATIONS SHALL BE MET.

6. PLUMBING CONTRACTOR SHALL OBTAIN ALL PERMITS AND INSPECTIONS REQUIRED FOR THE INSTALLATION OF THIS WORK AND PAY ALL CHARGES INCIDENT THERETO. HE SHALL DELIVER TO THE ARCHITECT CERTIFICATES OF SAID INSPECTIONS ISSUED BY PROPER AUTHORITIES. HE SHALL PAY ALL COSTS FOR PERMITS AND INSPECTIONS AS REQUIRED BY GOVERNING AUTHORITY.

7. REQUIRED INSURANCE SHALL BE PROVIDED BY THE CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF WORK.

8. VERIFY LOCATION, SIZE, INVERTS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION. ADVICE ENGINEER OF ANY DISCREPANCIES.

9. FURNISH TWO BROCHURES CONTAINING CATALOG CUTS AND DATA ON PLUMBING FIXTURES, WATER HEATER AND SPECIFY ITEMS, AS WELL AS WARRANTIES AND GUARANTIES PERTAINING THERETO.

10. PROTECT ALL PLUMBING EQUIPMENT AND MATERIALS AGAINST DAMAGE. COMPLETED SYSTEM SHALL BE FREE FROM BLOCKAGE, DEBRIS, AND OBSTRUCTIONS.

11. PROVIDE THE OWNER WITH A WRITTEN AND CERTIFIED GUARANTEE FOR THE COMPLETED WORK COVERING A PERIOD OF ONE YEAR, STARTING FROM THE DAY OF FINAL ACCEPTANCE BY THE OWNER OF THE COMPLETED AND APPROVED SYSTEMS.

12. ELECTRICAL EQUIPMENT SHALL BE FURNISHED AND WIRED FOR THE ELECTRICAL CHARACTERISTICS CALLED FOR IN ELECTRICAL PLANS AND SPECIFICATIONS.

13. PROVIDE CHROME PLATED FLOOR, WALL AND CEILING PLATES AT EACH EXPOSED POINT WHERE PIPES PASS THROUGH FLOOR, WALL AND/OR CEILING.

14. WATER PIPING LESS THAN 1 ½" DIAMETER AND ALL RELATED VALVES, FITTINGS, AND JOINTS SHALL BE INSULATED WITH ½" COLD AND 1" HOT HEAVY DENSITY FIBERGLASS WITH FKS SELF-SEALING LAP. WATER PIPING GREATER THAN 1 ½" DIAMETER AND ALL RELATED VALVES, FITTINGS, AND JOINTS SHALL BE INSULATED WITH ½" COLD AND 2" HOT HEAVY DENSITY FIBERGLASS WITH FKS SELF-SEALING LAP. HORIZONTAL STORM DRAIN WITHIN CONDITION SPACES USE 1" PREFORMED FIBERGLASS PIPE INSULATION WITH FACTORY JACKET.

15. ALL WATER PIPING AND ALL RELATED VALVES, FITTINGS, AND JOINTS SHALL BE INSULATED WITH 1/2" COLD AND 1" HOT HEAVY DENSITY FIBERGLASS WITH FKS SELF-SEALING LAP

16. JOINT JACKET: JOINTS AND FITTINGS SHALL BE DONE IN ACCORDANCE WITH RECOMMENDATIONS OF MANUFACTURER SUPPLYING THE INSULATION. INSULATION MATERIALS, INCLUDING INSULATION CLOTHS, CEMENTS, JACKETS, FACINGS, ADHESIVES, MASTIC, TAPES, AND OTHER ACCESSORIES SHALL HAVE COMPOSITE FIRE AND SMOKE HAZARD RATING AS TESTED BY U.L. PROCEDURE U1723, NOT EXCEEDING FLAME SPREAD RATING OF 25 AND SMOKE DEVELOPED RATING OF 50. USE OF WATER SOLUBLE TREATMENTS TO ACHIEVE THESE RATINGS IS NOT ACCEPTABLE.

17. WATER PIPING BELOW FLOOR SLAB ON EARTH AND OUTSIDE SHALL BE TYPE "L" HARD COPPER WITH WROUGHT COPPER FITTINGS MADE USING LEAD FREE SOLDER JOINTS. PIPE SUBJECT TO CORROSION DUE TO SALTY DIRT SHALL RUN INSIDE THE PVC PIPE JACKET.

18. INSIDE WATER PIPING SHALL BE TYPE "M" COPPER WITH WROUGHT COPPER FITTINGS MADE USING LEAD FREE SOLDER JOINTS. PLASTIC WATER PIPE WILL NOT BE APPROVED.

19. SOIL, WASTE, AND VENT PIPING SHALL BE SCHEDULE 40 DWV PVC PLASTIC PIPE WITH SOLVENT WELDED JOINTS FOR ALL SOIL, WASTE AND VENT PIPING. PLASTIC PIPE MAY ONLY BE USED IF APPROVED BY PLUMBING AND FIRE CODES. PLASTIC PIPE OR ANY COMBUSTIBLE MATERIAL SHALL NOT BE USED IN THE RETURN AIR CEILING PLENUM.

20. NO VENTS OR OTHER PIPES SHALL BE VISIBLE FROM THE FRONT OF THE BUILDING.

21. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES AND ALL WATER HAMMER ARRESTERS. ACCESS PANELS IN RATED WALL MUST MAINTAIN THE SAME RATING AND MUST MATCH THE FINISH OF THE WALL IN WHICH IT IS INSTALLED.

22. THESE DRAWINGS CONTAIN BOOK TYPE SPECIFICATIONS. THE PLUMBING SECTIONS OF THESE DRAWINGS AND THE SPECIFICATIONS MUST BE READ IN CONJUNCTION WITH EACH OTHER PRIOR TO BID AND CONSTRUCTION OF THIS PROJECT. ALL ARE CONSIDERED ONE DOCUMENT.

23. PROVIDE PLUMBING FIXTURES AS INDICATED, COMPLETE WITH EVERYTHING REQUIRED FOR CORRECT OPERATION. THERE SHALL BE NO EXPOSED PLASTIC PIPE OR TRAPS ON ANY PLUMBING FIXTURE. ROUND, FRONT WATER CLOSETS WILL NOT BE APPROVED.

24. FIXTURE NUMBERS ARE AMERICAN STANDARD. EQUAL PRODUCTS: CRANE, KOHLER, ELJER, DELTA, SPEAKMAN, ELKAY, CHURCH, BENEKE, BEMIS, SPERZEL, HASLEY TAYLOR, OASIS AND SUNROC.

25. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED BY EVERY APPLICABLE JURISDICTIONS IN THE PERFORMANCE OF THE WORK.

26. ALL WORK SHALL MEET THE LOCAL AND STATE, PLUMBING CODE, AND ENERGY CODE.

27. CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH ITEM OF EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE ORDERING.

28. PROVIDE OPERATIONS AND MAINTENANCE MANUALS FOR ALL EQUIPMENT.

29. ALL LOW VOLTAGE CONTROL AND INTERLOCK WIRING IS INCLUDED IN THIS DIVISION.

30. ALL SANITARY PIPE SHALL BE TERMINATED 10'-0" AWAY FROM ANY FRESH INTAKE.

31. WATER HEATER SHALL HAVE ASME P & T RELIEF VALVE WITH DISCHARGE PIPE TO DRAIN OR 10" ABOVE FINISHED GRADE.

32. WATER PIPING RUN IN ATTIC SPACES SHALL BE RUN ON HEATED SIDE OF ATTIC OR CEILING INSULATION. WATER PIPING RUN IN OUTSIDE BUILDING WALLS SHALL BE RUN ON HEATED SIDE OF WALL INSULATION.

33. PROVIDE CLEAN-OUTS WHERE INDICATED AND WHERE REQUIRED BY CODE. (75 FT FOR 4" PIPE AND 50 FT. FOR 3" PIPE. CLEAN-OUT COVER PLATES SHALL BE METAL AND HAVE TOP FLUSH WITH FINISHED WALL, FLOOR OR GRADE. WALL CLEAN-OUTS SHALL BE NO HIGHER THAN 12" ABOVE FLOOR, UNLESS OTHERWISE INDICATED. FOR DWV PVC PLASTIC PIPE SYSTEM, USE CLEAN-OUTS MANUFACTURED BY SMITH, JONESPEC, JOSAM, WADE OR ZURN.

34. CONTRACTOR IS TO SUPPLY ALL SAFETY EQUIPMENT AND SUPERVISION REQUIRED TO ASSURE A SAFE CONSTRUCTION SITE. CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL SAFETY INSPECTIONS, SUPERVISION, AND COMPLIANCE WITH ALL APPLICABLE LAWS.

35. PIPES PASSING THROUGH CONCRETE OR CINDER WALLS AND FLOORS OR OTHER CORROSIVE MATERIAL SHALL BE PROTECTED AGAINST EXTERNAL CORROSION BY A PROTECTIVE SHEATHING OR WRAPPING OR OTHER MEANS THAT WILL WITHSTAND ANY REACTION FROM LIME AND ACID CONCRETE, CINDER OR OTHER CORROSIVE MATERIAL. SHEATHING OR WRAPPING SHALL ALLOW FOR EXPANSION AND CONTRACTION OF PIPING TO PREVENT ANY RUBBING ACTION.

36. A SOIL OR WASTE PIPE OR BUILDING DRAIN PASSING UNDER A FOOTING OR THROUGH A FOUNDATION WALL, SHALL BE PROVIDED WITH A RELIEVING ARCH, OR THERE SHALL BE BUILT INTO THE MASONRY WALL A PIPE SLEEVE TWO PIPE SIZES GREATER THAN THE PIPE PASSING THROUGH OR AS MAY BE APPROVED IN WRITING BY THE PLUMBING OFFICIAL.

37. TRENCHING INSTALLED PARALLEL TO FOOTINGS SHALL NOT EXTEND BELOW THE 45 DEGREE BEARING PLANE OF THE FOOTING OR WALL UNLESS APPROVED BY THE PLUMBING OFFICIAL.

38. WHEN CLEAN-OUTS ARE INSIDE THE BUILDING, CLEAN-OUTS SHALL BE ABOVE THE FLOOD LEVEL RIM OF THE FIXTURES THAT THE HORIZONTAL PIPE SERVES WHEN PRACTICAL.

39. A SHUT OFF VALVE SHALL BE PROVIDED IN THE COLD WATER SUPPLY TO WATER HEATER AND SHALL BE ACCESSIBLE ON THE SAME FLOOR AND WITHIN 3 FT. OF THE HEATER.

40. PROVIDE VACUUM BREAKER OR ANTI-SIPHON AT THE WATER HEATER AS PER CODE.

41. UNDERGROUND WATER SERVICE PIPE AND THE BUILDING DRAIN OR BUILDING SEWER SHALL NOT BE LESS THAN 5 FT. APART HORIZONTALLY AND SHALL BE SEPARATED BY UNDISTURBED COMPACT EARTH.

42. WATER PIPE SHALL BE DISINFECTED AS PER CODE.

43. PROVIDE WATER PRESSURE REGULATOR WITH STRAINER IF THE WATER PRESSURE IS MORE THAN 80 PSI.

44. PIPE PENETRATING A FIRE RATED WALL OR FLOOR SHALL BE SEALED WITH THE FIRESTOP SEALANT.

45. CONTRACTOR SHALL DESIGN AND PROVIDE THE FIRE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13. PROVIDE DRY SYSTEM WHERE PIPE IS SUBJECT TO FREEZE. FIRE PUMP SHALL HAVE REDUCED VOLTAGE TYPE CONTROLLER IF EMERGENCY POWER GENERATOR PROVIDED.

46. CONTRACTOR SHALL PROVIDE THERMAL EXPANSION TANK AT THE DOWNSTREAM OF SHUT-OFF VALVE OF THE INLET OF WATER HEATER.

47. HORIZONTAL DRAINAGE PIPING SHOULD BE INSTALLED AT A UNIFORM SLOPE. 3" DIAMETER AND SMALLER PIPE SHALL BE INSTALLED WITH A FALL OF NOT LESS THAN 1/4 INCH PER FOOT. 3" DIAMETER AND LARGER PIPE SHALL BE INSTALLED WITH A FALL OF NOT LESS THAN 1/8 INCH PER FOOT. CONTRACTOR SHALL VERIFY THE INVERT ELEVATION OF PIPING WITH CIVIL PLAN BEFORE INSTALLING THE PIPE. SEE PLUMBING CODE SECTION 704, TABLE 704.1

48. PROVIDE THE VACUUM BREAKER AT THE FOLLOWING WATER CONNECTION (SECTION 608.15.4.2):

    a. HOSE BIBS
    b. MOP SINK

49. PROVIDE DOUBLE CHECK FLOW PREVENTER AT THE DOWN STREAM OF METER AND FIRE PROTECTION SYSTEM. SEE SITE PLAN. BACK FLOW PREVENTER SHALL BE INSTALLED AS PER LOCAL AUTHORITIES?REQUIREMENTS.

    a. DOMESTIC WATER LINE AND FIRE SPRINKLER SYSTEM-(TYPE DCVA OR RPZA))

50. PROVIDE BACK-FLOW PREVENTER AT THE EQUIPMENT WHICH ARE CONNECTED DIRECTLY TO POTABLE WATER SYSTEM. E.G. COFFEE, ICE, TEA, BEVERAGE MACHINES ETC. AS PER SECTION 608.1 TO 608.17.8

51. CONTRACTOR SHALL NOT CHANGE ANY PIPING LAYOUT WITHOUT WRITTEN PERMISSION.

52. WATER PIPING SHALL NOT BE INSTALLED IN THE ATTIC OR UNHEATED AREA UNLESS OTHERWISE NOTED. IF PIPING IS INSTALLED IN THE ATTIC SPACE, THEN CONTRACTOR SHALL GET APPROVAL FROM THE ENGINEER.

53. CONTRACTOR SHALL NOT INSTALLED ANY PIPING OR FIXTURES WHICH WILL BE IMPEDIMENT TO THE TRAFFIC.

54. DO NOT RUN PIPING OR DUCT-WORK OR LOCATE EQUIPMENT (WITH RESPECT TO SWITCHBOARDS, PANEL BOARDS, POWER PANELS, MOTOR CONTROL CENTERS OR DRY TYPE TRANSFORMERS WITHIN 42" IN FRONT OF EQUIPMENT, OVER EQUIPMENT, OR WITHIN 36" HORIZONTALLY OF SAME SPACE.

55. THIS CONTRACTOR SHALL GIVE ALL ELECTRICAL AND MECHANICAL INFORMATION PERTAINING TO PLUMBING EQUIPMENT TO ELECTRICAL AND MECHANICAL CONTRACTORS BEFORE FINAL CONTRACT SO THAT ELECTRICAL AND MECHANICAL CONTRACTOR INCLUDE IN HIS CONTRACT. CONTRACTOR SHALL NOT PURCHASE ANY EQUIPMENT WITHOUT WRITTEN APPROVAL FROM ELECTRICAL AND STRUCTURAL ENGINEERS AND CONTRACTORS.

56. ANY PIPE SUBJECT TO FREEZE OR CONDENSATE SHALL BE INSULATED.

57. CO-ORDINATE LOCATION OF GARBAGE DISPOSAL WITH OWNER AND ARCHITECT.

58. ANY PIPE SUBJECT TO FREEZE SHALL BE INSULATED WIT HEAT TAPE. EXAMPLE: PIPES IN ATTIC, PARKING LOT. SANITARY PIPES TRAP IN PARKING LOT.

59. ALL WATER PIPES SHALL BE IDENTIFIED WITH PIPE MARKER LABEL WHICH INCLUDE THE CONTENTS OF THE PIPING SYSTEM AND ARROW OF FLOW DIRECTION AS PER PLUMBING CODE SECTION 608.8

60. ALL SANITARY AND STORM PIPES SHALL BE IDENTIFIED WITH PIPE MARKER LABEL WHICH INCLUDE THE CONTENTS OF THE PIPING SYSTEM AND ARROW OF FLOW DIRECTION.

61. ALL HORIZONTAL STORM SEWER PIPES SHALL BE INSULATED TO PREVENT CONDENSATION.

62. DRAINAGE OUTLET SHALL BE RODENTPROOF AS PER PLUMBING CODE SECTION 304.

63. ELEVATOR SUMP PUMP SHALL BE DISCHARGED INDIRECTLY TO DRAIN SYSTEM AS PER PLUMBING CODE SECTION 301.6

64. ALL SANITARY AND WATER PIPES SHALL BE PROTECTED FROM FREEZING AS PER PLUMBING CODE SECTION 305.6 (6" BELOW FROST LINE AND NOT LESS THAN 12" BELOW GRADE.

65. ALL PIPES SUPPORT SHALL BE PROTECTED FROM WEATHER. (PAINT OR STAINLESS STEEL TO PREVENT CORROSION). SEE SECTION 308.

66. CONTRACTOR SHALL PROVIDE TRAP PRIMER TO EACH FLOOR DRAIN UNLESS OTHERWISE NOTED. CONTRACTOR SHALL USE TRAP GUARD DRAIN BY PRO-VENT SYSTEMS (1-800-262-5355,) IF IT IS PERMITTED BY THE LOCAL CODE OFFICIAL.

67. ALL PLUMBING VENT SHALL BE NOT BE VISIBLE FROM THE FRONT.

68. Plumbing and mechanical systems.

    Plumbing and mechanical systems shall not be located in an elevator shaft.

    Exception:Floor drains, sumps and sump pumps shall be permitted at the base of the shaft provided they are indirectly connected to plumbing system.

PLUMBING FIXTURE SCHEDULE

PROVIDE IN ALL PUBLIC BATHROOM HOSE BIB UNDER THE LAVATORY FOR HOUSEKEEPING PURPOSE.

P-1 FLOOR MOUNTED WATER CLOSETS (FLUSH VALVE TYPE). BATTERY OPERATED

FIXTURE	3451.528	"AMERICAN STANDARD" 15" HIGH ELONGATED MADERA FLOWISE 1.28 GPF VITREOUS CHINA. WATER SAVER, SIPHON JET FLUSHING ACTION. 1 1/2" TOP SPUD SUPPLY, INLET SPUD BOLTS, AND CAPS. WATER SENSE
SEAT	521/5905.100	"BENEKE/AMERICAN STANDARD" EXTRA HEAVY DUTY SOLID PLASTIC SEAT WITHOUT COVER.
SUPPLY	6065.121	"AMERICAN STANDARD" SELECTRONIC BATTERY OPERATED FLUSH VALVE.

P-1 FLOOR MOUNTED WATER CLOSETS (FLUSH VALVE TYPE). AC POWER

FIXTURE	3451.712	"AMERICAN STANDARD" 15" HIGH ELONGATED MADERA FLOWISE 1.28 GPF VITREOUS CHINA. WATER SAVER, SIPHON JET FLUSHING ACTION. 1 1/2" TOP SPUD SUPPLY, INLET SPUD BOLTS, AND CAPS. WATER SENSE
SEAT	521/5905.100	"BENEKE/AMERICAN STANDARD" EXTRA HEAVY DUTY SOLID PLASTIC SEAT WITHOUT COVER.
SUPPLY	6067.121	"AMERICAN STANDARD" SELECTRONIC AC POWERED FLUSH VALVE. 1.28 GPF

P-1A FLOOR MOUNTED WATER CLOSETS (FLUSH VALVE TYPE) (HANDICAP).-BATTERY OPERATED

FIXTURE	3461.528	"AMERICAN STANDARD" 16 « HIGH ELONGATED MADERA FLOWISE 1.28 GPF VITREOUS CHINA. WATER SAVER, SIPHON JET FLUSHING ACTION. 1 1/2" TOP SPUD SUPPLY, BOLTS, AND CAPS. WATER SENSE
SEAT	521/5905.100	"BENEKE/AMERICAN STANDARD" EXTRA HEAVY DUTY SOLID PLASTIC SEAT WITHOUT COVER.
SUPPLY		"AMERICAN STANDARD" SELECTRONIC BATTERY OPERATED FLUSH VALVE. 1.28 GPF

ALTERNATE:
P-1A FLOOR MOUNTED WATER CLOSETS (FLUSH VALVE TYPE) (HANDICAP). AC POWERED

FIXTURE	3043.712	"AMERICAN STANDARD" 16 « HIGH ELONGATED MADERA FLOWISE 1.28 GPF VITREOUS CHINA. WATER SAVER, SIPHON JET FLUSHING ACTION. 1 1/2" TOP SPUD SUPPLY, BOLTS, AND CAPS. WATER SENSE
SEAT	521/5905.100	"BENEKE/AMERICAN STANDARD" EXTRA HEAVY DUTY SOLID PLASTIC SEAT WITHOUT COVER.
SUPPLY	6067.121	"AMERICAN STANDARD" SELECTRONIC AC POWERED FLUSH VALVE. 1.28 GPF

P-2A 20" x 18" WALL HUNG LAVATORY (HANDICAP).

FIXTURE	0355.012	"AMERICAN STANDARD" VITREOUS CHINA, FRONT OVERFLOW AND INTEGRAL BACK.
FAUCETS	6056.202	"AMERICAN STANDARD" INNSBROOK ELECTRONIC FAUCET WITH PROXIMITY OPERATION. VANDAL RESISTANT SOLID BRASS CONSTRUCTION. ONE 6056.202 AC-PLUG IN POWER SUPPLY FEEDS UPTO 15 6057.202 INSBROOKS" W/O POWER. INTEGRAL IN-LINE SOLENOID STRAINER, BUILT-IN CHECKS, FLEXIBLE STAINLESS STEEL 20" INLET HOSE FOR SPOUT CONNECTION SINGLE INLET 3/8 COMPRESSION.
FAUCETS	6053.202	"AMERICAN STANDARD" INNSBROOK ELECTRONIC FAUCET (BATTERY OPERATED)WITH PROXIMITY OPERATION. VANDAL RESISTANT SOLID BRASS CONSTRUCTION. ONE INTEGRAL IN-LINE SOLENOID STRAINER, BUILT-IN CHECKS,FLEXIBLE STAINLESS STEEL 20" INLET HOSE FOR SPOUT CONNECTION SINGLE INLET 3/8 COMPRESSION.
DRAIN	SG7WC	"EBC" OFFSET DRAIN WITH BRASS PERFORATED GRID DRAIN.
		MCGUIRE 155WC OR PW2125 PRO WRAP FACTORY INSULATED.
TRAP	TA125	"EBC" 1 1/4" P TRAP WITH CAST BRASS NUTS AND CLEANOUTS PLUG.
	8872C	"MCGUIRE"
SUPPLY	VA13	"EBC".
	LF165	"MCGUIRE

HANDI LAV-GUARD INSULATION KIT.

LAVATORY WALL HUNG SUPPORT:

JAY R. SMITH FIG. #700 FOR MASONARY WALLS AND #700-M31 FOR METAL OR WOOD STUD WALLS.

P-3A/P-3 WALL HUNG URINAL - HANDICAP

FIXTURE	6590.001	"AMERICAN STANDARD" WASHBROOK 0.125 GPF TOP SPUD URINAL
VALVE	6062.101.002	AC POWER OPERATED SELECTRONIC URINAL FLUSH VALVE.
VLAVE	6063.013.002	BATTERY OPERATED SELECTRONIC URINAL LUSH VALVE.

ALTERNATE:

P-3A/P-3 WALL HUNG URINAL - HANDICAP WATER LESS

FIXTURE	6150.100	"AMERICAN STANDARD" FLOWISE WATRLESS URINAL VITREOUS CHINA, DRAIN INSERT, MOUNTING HARDWARE, WALL BRACKET, DRAIN FLANGE COUPLER, ODOR BARRIER LIQUID, INSERT KEY, DRAIN INSERT
FIXTURE	6154.100	MEDIUM
FIXTURE	6155.100	SMALL

URINAL WALL HANGER:

P-4 SHOWER

SHOWER	TILE	
FAUCET	S-4701-TRM	SHOWER TRIM WITH INTEGRAL VOLUME CONTROL AND TEMPTROL PRESSURE BALANCING SHOWER VALVE, 1.5 GPM AND SHOWER HEAD.
DRAIN	2010A-02P050-BB "JAY R. SMITH"	

P-4A SHOWER

SHOWER	TILE.	
FAUCET	552HSB	SYMMONS SHOWER/HAND SHOWER SYSTEM WITH SLIDE BAR, VACUUM BREAKER, SHOWER HEAD, HOSE AND 1.5 GPM FLOW RATE RESTRICTOR, AND TEMPTROL VALVE
DRAIN	2010A-02P050-BB "JAY R. SMITH"	

P-5A ELECTRIC WATER COOLER/BOTTLE FILLER SPLIT LEVEL (HANDICAP)

FIXTURE	PG8EBQSL	"OASIS" SPLIT LEVEL ELECTRIC WALL HUNG. COOLER SHALL DELIVER 8.0 GPH OF 50 DEGREE F WATER AT 90 DEGREE F AND 80 DEGREE F INLET WATER TEMPERATURE AND BOTTLE FILLER. 1/4 HP, 4.6 AMPS, 115/1/60 VOLTS
SUPPLY STOP.	LA11 WALL ESCHUTCHEON	"EBC" SUPPLY TO WALL WITH WHEEL HANDLE AND FLEXIBLE RISER.
TRAP	TA125	"EBC" 1-1/4" X 1 -1/4" P-TRAP WITH CAST BRASS NUTS AND CLEANOUT PLUG.

P-6 CLOTH WASHER

SUPPLIED BY OTHERS AND INSTALLED BY THIS CONTRACTOR.

P-7A 33" X 22" X 6 1/2" DOUBLE COMPARTMENT SINK
(1174-KS WILL NOT WORK WITH SPRAYER)

FIXTURE	DL-ADA-2233-A-GR	" JUST " SELF RIMMING TYPE STAINLESS STEEL DOUBLE COMPARTMENT KITCHEN SINK
FAUCET	J-902	SINGLE LEVER WASHERLESS MIXING FAUCET WITH ESCUTCHEON AND 8" SPOUT AERATOR AND SPRAYER
DRAIN	J-ADA-35	STAINLESS STEEL CUP STRAINER WITH REMOVABLE STAINLESS STEEL BASKET. BASKET HAS RUBBER SEAT STOPPER. 1 1/2" OD CHROME PLATED BRASS OFFSET TAILPIECE.
SUPPLY	VA13	"EBC"
	LF165	"MCGUIRE"

CONTRACTOR SHALL NOT PURCHASE SINK WITHOUT VERIFYING WITH CABINET MANUFACTURER AND ARCHITECT. MAKE SURE THAT SINK WILL FIT INTO CABINET COUNTERTOP.

P-8A 19" X 21" X 6 1/2" SINGLE COMPARTMENT BREAKROOM SINK

FIXTURE	SL-ADA-1921-A-GR	" JUST " SELF RIMMING TYPE STAINLESS STEEL SINGLE COMPARTMENT KITCHEN SINK
FAUCET	J-1174-KS	GOOSENECK SPOUT MIXING FAUCET WITH 4" WRIST BLADE HANDLES
DRAIN	J-ADA-35	STAINLESS STEEL CUP STRAINER WITH REMOVABLE STAINLESS STEEL BASKET. BASKET HAS RUBBER SEAT STOPPER. 1 1/2" OD CHROME PLATED BRASS OFFSET TAILPIECE.
SUPPLY	VA13	"EBC"
	LF165	"MCGUIRE"

CONTRACTOR SHALL NOT PURCHASE SINK WITHOUT VERIFYING WITH CABINET MANUFACTURER AND ARCHITECT. MAKE SURE THAT SINK WILL FIT INTO CABINET COUNTERTOP.

P-9 MOP SINK (SERVICE SINK)

FIXTURE	TSBCR1000	FIAT 28 X 28 X 12, A COMBINATION DOME STRAINER AND LINT BASKET MADE FROM STAINLESS STEEL.
FAUCET	PLATE NO. 830-AA	FIAT CHROME PLATED WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACKET, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT.
HOSE AND AND HOSE BRACKET	PLATE NO. 832-AA	30" HOSE.
MOP HANGER	PLATE NO. 889-C	MOP HANGER 24"

P-10 VEGETABLE STAINLESS STEEL SINK

SINK	600HS172H	REGENCY 17" X 15" x 5 «" GOOSENECK SINK WITH STRAINER BASKET
FAUCET	600FW44GLL	GOOSENECK SINK
TRAP	TA150	"EBC" 1-1/2" X 1 -1/2" P-TRAP WITH CAST BRASS NUTS AND CLEANOUT PLUG.

P-11 REFRIGERATOR-ICE MAKER

OATLEY 39186 OATLEY ICE MAKER BOX

P-12 DISHWASHER

SUPPLIED BY OTHERS AND INSTALLED BY THIS CONTRACTOR.

ELECTRIC WATER HEATER:

A.O SMITH DRE-100-60, 100 GALLON TANK, 60.0 KW, RECOVERY 248 GPH AT 100 DEG F RISE, 166.7 AMPS@ 208/3/60 VOLTS.

CO-EXPOSED CLEANOUT-UNFINISHED AREAS:

JAY R. SMITH FIG. 4470/MIFAB C1430 CAST BRONZE COUNTERSINK PLUG WITH SLOT TO RECEIVE 1/2" THICK STEEL BAR STOCK.

WCO-WALL CLEANOUT - FINISHED AREAS:

JAY R. SMITH FIG. 4436/MIFAB C1450-R-1 CAST IRON FERRULE FOR NO HUB OR SERVICE WEIGHT PIPE . NICKEL BRONZE ROUND FRAME AND COVER WITH SECURING SCREWS.

FCO-CONCRETE FLOORS:

JAY R. SMITH FIG. 4238L/MIFAB C1100-XR-P-4 CAST IRON CLEANOUT WITH GASKET SEAL, THREADED PLUG FOR EASY REMOVAL, ADJUSTABLE ROUND CAST IRON TOP WITH SECURING SCREWS. SPEEDI -SET OUTLET CONNECTION.

FCO-TILE FLOORS:

JAY R. SMITH FIG. 4151/MIFAB C1100-T-P-1 CAST IRON CLEANOUT WITH GASKET SEAL, THREADED PLUG FOR EASY REMOVAL, ADJUSTABLE ROUND NICKEL BRONZE TOP RECESSED FOR TILE WITH SECURING SCREWS. SPEEDI -SET OUTLET CONNECTION.

FCO-CARPETED FLOORS:

JAY R. SMITH FIG. 4031-Y/MIFAB C110P-R-P-1 CAST IRON CLEANOUT WITH GASKET SEAL, THREADED PLUG FOR EASY REMOVAL, ADJUSTABLE ROUND NICKEL BRONZE TOP COMPLETE WITH STAINLESS STEEL CARPET MARKER WITH SECURING SCREWS. SPEEDI -SET OUTLET CONNECTION.

YCO-EXTERIOR PAVED/CONCRETE AREAS:

JAY R. SMITH FIG. 4261-U/MIFAB C1300-M-6-W/C1230. CAST IRON FLANGED HOUSING WITH HEAVY DUTY CAST IRON COVER , LIFTING DEVICE. GASKET SEAL THREADED PLUG, V. P. SCREWS IN COVER.

YCO-EXTERIOR UNSURFACED AREAS:

JAY R. SMITH FIG. 4261-U/MIFAB C1300- 6 W/C2130. CAST IRON FLANGED HOUSING WITH HEAVY DUTY CAST IRON COVER , LIFTING DEVICE. GASKET SEAL THREADED PLUG, V. P. SCREWS IN COVER. CLEANOUT SHALL BE SET IN 24" X 12" CONCRETE PAD FLUSH WITH SURFACE.

2" FD-FLOOR DRAINS-REST ROOM/SHOWER:

JAY R. SMITH FIG. 2010A-02P050-BB/MIFAB F1100X-C-1-7 ROUND TOP AND CAULK OUTLET WITH TRAP PRIMER CONNECTION.

LAVATORY WALL HUNG SUPPORT:

JAY R. SMITH FIG. #700 FOR MASONARY WALLS AND #700-M31/MIFAB MC-41 FOR METAL OR WOOD STUD WALLS.

WH-WALL HYDRANT EXPOSED:

JAY R. SMITH FIG. 5609QT/MIFAB MHQ-26 NON-FREEZE 3/4" CAST BRONZE HYDRANT WITH BRONZE CASING, INTEGRAL VACUUM BREAKER, CHROME PLATED FACE , AND SIZED IN ACCORDANCE WITH WALL THICKNESS. PROVIDE WITH KEY HANDLE.

HB-HOSE BIBB:

WOODFORD #24/MIFAB HY-9040 W/HY-9000 HOSE BIBBFOR INSIDE USE WITH VACUUM BREAKER, BACKFLOW PREVENTER.

BACKFLOW PREVETNER AT BEVERAGE, COFFEE AND TEA MACHINE ETC.

WATTS 9BD

PROVIDE WATER FILTER FOR BEVERAGE, COFFEE, TEA, AND ICE MACHINE.

NOTES: 1) HANDICAP FIXTURES SHALL BE INSTALLED ACCORDING TO HANDICAPPED CODE REQUIREMENTS.

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REVISIONS

Number	Date:	Remarks:	Number	Date:	Remarks:
X	00-00-00	N/A			

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WHITFIELD COUNTY
RIVERBEND PARK
COMMUNITY CENTER
DALTON, GEORGIA

SHEET TITLE:
PLUMBING GENERAL NOTES
PLUMBING FIXTURES SCHEDULE

PRINTED:

NUMBER: P-3

WHITFIELD COUNTY GYM PRINTED DATE: 09/16/20

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SAMSUNG DVM-S INSTALLATION ESSENTIALS

THE PURPOSE OF THE FOLLOWING INFORMATION IS TO INSURE THE SAMSUNG DVM-S SYSTEM IS PROPERLY DESIGNED AND INSTALLED FOR OPTIMAL OPERATION. IT IS IMPORTANT THAT THE SYSTEM IS INSTALLED TO SAMSUNG STANDARDS. PLEASE CONTACT INSIGHT PARTNERS FOR ANY QUESTIONS AND COMMENTS, AS WELL AS KEEPING INSIGHT PARTNERS UP-TO-DATE WITH THE PROGRESS OF THE INSTALLATION.

NOTES:

1. SAMSUNG PUBLISHED DATA (INSTALLATION MANUALS, INSTALLATION GUIDES, SUBMITTALS, WHITE PAPERS, ETC.) SUPERCEDES INFORMATION PROVIDED IN THIS DOCUMENT.
2. INFORMATION INDICATED IN THE DVM-S PRO DESIGN SOFTWARE REPORT SUPERCEDES ANY CONFLICTING INFORMATION (PIPE QTY/SIZES, IDU/ODU MODEL(S), CONTROL MODEL(S), ETC.) SHOWN IN THIS DESIGN DRAWING SET.

1.0 PRE-INSTALLATION CONSIDERATIONS (PIPING)

1.1 INSIGHT PARTNERS WILL PROVIDE THE CONTRACTOR WITH A SAMSUNG DVM-S PIPING DIAGRAM CREATED USING SAMSUNG'S DVM-S PRO DESIGN SOFTWARE.

1.2 ALL PIPING SIZES TO BE INSTALLED MUST HAVE ORIGINATED FROM A DVM-S PRO DESIGNED FILE, PRODUCED BY AN INSIGHT PARTNER SAMSUNG TRAINED DESIGNER.

1.3 NO PIPE WORK SHALL BE DONE WITHOUT A DVM PRO PIPING DIAGRAM.

1.4 WHEN PIPE ROUTING OR UNIT LOCATIONS DEVIATE FROM THE MOST RECENT DVM-S FILE, IT IS CRITICAL THAT A REVISED DVM-S DESIGN BE PERFORMED PRIOR TO PIPE WORK FOR ANY PIPE SEGMENT CHANGES OF 10 LINEAR FEET.

1.5 IT IS IMPORTANT THAT IDU/ODU LOCATIONS AND PIPE ROUTES BE FINALIZED PRIOR TO PIPE WORK INSTALLATION TO DETERMINE NEAR ACTUAL LENGTHS.

1.6 AS PIPING INSTALLATION COMMENCES, ALL CHANGES IN PROPOSED LENGTHS MUST BE FORWARDED TO INSIGHT PARTNERS FOR RE-CALCULATION IN DVM-S AND A NEW FIELD DRAWING PRODUCED BEFORE PIPING IS INSTALLED.

1.7 PIPING LENGTHS MUST BE DOCUMENTED ON AS-BUILT DRAWINGS AND DELIVERED TO INSIGHT PARTNERS BEFORE START-UP OF EQUIPMENT CAN BE SCHEDULED.

1.8 PLEASE BE SURE TO PAY ATTENTION TO A POSSIBLE CHANGE IN UNIT CAPACITIES AND PIPE SIZES AS PIPE LENGTH CHANGES.

1.9 FULL PORT BALL VALVES

1.9.1 IT IS RECOMMENDED THAT FULL PORT BALL VALVES BE USED IN THE LIQUID AND SUCTION TO EACH IDU. THIS WILL ENABLE YOU TO EASILY MAKE FUTURE PIPING AND/OR IDU REPAIRS WITHOUT RECOVERING THE ENTIRE SYSTEM CHARGE.

1.9.2 THEN MINIMUM PRESSURE RATING FOR THE FULL PORT/BI-FLOW WITH SCHROEDER PORT VALVES IS 600 PSI; A 750 PSI RATING IS RECOMMENDED.

1.9.3 VALVES WITH SCHROEDER PORTS SHOULD BE UTILIZED TO FACILITATE RECOVERY AND EVACUATION.

1.9.4 VALVES SHOULD BE USED WHEN A SYSTEM IS DESIGNED FOR FUTURE EXPANSION.

1.10 IN THE MAIN LINE VALVES SHOULD ONLY BE INSTALLED DOWNSTREAM OF THE Y-CONNECTION, UPSTREAM OF THE MODE CHANGE UNIT (MCU) BOXES.

1.11 IN THE BRANCH LINES VALVES SHALL BE INSTALLED AT THE BRANCH TAKEOFF AND/OR AT THE IDU PORT ON MCU'S TO AVOID AN OIL RETURN DEAD LEG.

2.0 INSTALLATION TOOLS (IN ADDITION TO STANDARD TOOLS THAT ARE NECESSARY TO PERFORM PIPING INSTALLATION)

2.1 DEDICATED R-410A MANIFOLD GAUGE SET IS HIGHLY RECOMMENDED WITH 5/16" HOSES SO AS NOT TO CONTAMINATE THE SYSTEM WITH OTHER OILS, SUCH AS MINERAL AND POE.

2.2 R-410A SERVICE ACCESS PORT WILL REQUIRE A SPECIAL ADAPTER TO ATTACH STANDARD 1/4" HOSES.

2.3 SCHROEDER CORE REMOVAL TOOL (5/16").

2.4 NITROGEN REGULATOR (600 PSI TEST).

2.5 R-410A FLARING TOOL. THE INDUSTRY STANDARD "OLD SCHOOL" FLARING TOOL IS NOT SUFFICIENT.

3.0 PIPE INSTALLATION

3.1 DO NOT INSTALL DRIERS, SIGHT GLASSES, SOLENOID VALVES, OR ANY OTHER COMPONENTS IN THE PIPING NETWORK. FULL PORT BALL VALVES ARE THE ONLY EXCEPTION.

3.2 DO NOT INSTALL TRAPS IN THE MAIN PIPING LINES.

3.2.1 THE ONLY EXCEPTION IS FOR MAIN RUNS BRANCH LINES BETWEEN 2 OR 3 MULTI CHASSIS ODU'S THAT ARE >= 6.5 FEET APART. CONSULT DVM-S PIPING DIAGRAMS.

3.3 USE ONLY ACR (HARD) COPPER ON MAIN LINES.

3.4 ANNEALED TEMPERED (SOFT) COPPER CAN BE USED DOWNSTREAM OF MCU PORTS TO IDU'S. ACR (HARD) COPPER CAN BE USED BUT IS NOT REQUIRED.

3.5 USE BEST PRACTICES DURING PIPE INSTALLATION. ENSURE THAT ENDS OF ALL COPPER ARE SEALED TO PROTECT THE PIPE FROM DUST, WATER, AND OTHER CONTAMINANTS.

3.6 ONLY USE APPROVED TUBING CUTTERS TO CUT TUBING. HACKSAWS, RECIPROCATING SAWS, ETC. ARE NOT PERMITTED.

3.7 ALWAYS REMOVE INNER AND OUTER BURRS FROM PIPE ENDS BEFORE FLARING AND BRAZING.

3.8 FLARE NUTS MUST BE TIGHTEN TO PROPER TORQUE. INSIGHT PARTNERS CAN PROVIDE TORQUE TABLE UPON REQUEST.

3.9 BRAZE PIPING WITH 15% SILVER SOLDER AND A NITROGEN PURGE DURING THE BRAZING PROCESS.

3.9.1 NITROGEN FLOW DURING BRAZING PROCESS SHALL BE AT 2-3 PSI TO PREVENT OXIDATION.

3.9.2 NITROGEN PURGE PRESSURE MUST BE INTRODUCED THROUGH BOTH THE LIQUID AND SUCTION LINES AT THE SAME TIME. REMOVE THE HOT GAS SCHROEDER CORE IN THE ODU TO RELIEVE PRESSURE.

3.10 ALL PIPE WORK (LIQUID, SUCTION, HOT GAS) MUST BE INSULATED.

3.11 USE 1/2" TO 1 1/2" WALL THICKNESS CLOSED CELL TUBING INSULATION UNLESS OTHERWISE DIRECTED BY LOCAL CODE TO USE THICKER INSULATION.

3.12 LIQUID, SUCTION, AND HOT GAS TUBES MUST BE SEPARATELY INSULATED.

3.13 PROPER HANGING AND SUPPORT OF PIPING IS CRITICAL.

3.13.1 APPROVED PRODUCTS FOR HANGING AND SUPPORT ARE:

3.13.1.1 CUSH-A-CLICK STRUT SYSTEM

3.13.1.2 CUSH-A-CLAMP STRUT SYSTEM

3.13.1.3 KLO-SHURE INSULATED COUPLINGS STRUT HANGER

3.13.1.4 CUSH-A-THERM

3.13.2 EXPANSION AND CONTRACTION OF COPPER PIPING SYSTEM MUST BE CONSIDERED IN THE PIPING LAYOUT DESIGN.

3.13.3 ANTICIPATED PIPE EXPANSION/CONTRACTION DUE TO TEMPERATURE CHANGE IS APPROXIMATELY 0.001 INCH PER DEGREE PER 10 FEET OF PIPE OR 0.0001 INCH PER DEGREE PER FOOT.

3.13.4 THE SUCTION LINE CAN EXPERIENCE A RAPID 50 TO 120 DEGREE TEMPERATURE CHANGE WHEN SWITCHING BETWEEN HEATING AND COOLING. A 120 DEGREE TEMPERATURE DIFFERENCE EQUALS A 1-3/8" CHANGE IN PIPE LENGTH PER 100 FEET OF PIPE.

3.13.5 PROPER ALLOWANCE FOR EXPANSION/CONTRACTION CAN NOT BE ALLOWED FOR IF PIPE IS HELD RIGIDLY BY PIPE CLAMPS.

3.14 FLARE JOINT CONSIDERATIONS

3.14.1 WHEN MAKING THE CONNECTION TO THE IDU AND CHANGING FROM HARD TO SOFT COPPER

3.14.1.1 A LONG RADIUS SWEEP IS USED BEFORE THE CONNECTION TO THE SOFT COPPER.

3.14.1.2 A BRACKET MUST BE USED BETWEEN THE HARD/SOFT COPPER BRAZE JOINT.

3.14.1.3 A FLARE CONNECTION MUST BE USED TO ASSURE A LEAK DOES NOT DEVELOP AT THE FLARE FITTING.

3.14.2 THERE SHALL NOT BE BENDS 4 TO 6 INCHES FROM THE FLARE CONNECTIONS.

3.14.3 THE "20-INCH RULE" SHALL BE APPLIED BETWEEN FITTINGS, INCLUDING Y-BRANCH FITTINGS. IT IS RECOMMENDED TO HAVE 36" MINIMUM BETWEEN CONSECUTIVE Y-BRANCHES.

3.14.4 Y-BRANCH JOINTS CAN BE ORIENTED IN EITHER HORIZONTAL OR VERTICAL POSITION.

3.14.4.1 IN THE HORIZONTAL POSITION, THE POSITION MUST NOT EXCEED +/- 15 DEGREES IN THE LATERAL POSITION, UP OR DOWN.

3.14.4.2 IN THE VERTICAL POSITION, THE OUTLET OF THE Y-BRANCH CAN FACE UP OR DOWN, WITHIN +/- 3 DEGREES OF PLUMB.

3.14.5 Y-BRANCH CONNECTIONS ALWAYS HAVE THE SINGLE PIPE END FACING THE ODU.

3.14.6 ALL HEADERS MUST BE IN THE HORIZONTAL PLANE.

3.14.6.1 NOT ALL PORTS ON HEADER MUST BE USED. CAP UNUSED END OF HEADER AND UNUSED PORTS.

3.14.6.2 ADDITIONAL HEADERS CAN NOT BE CONNECTED TO A PORT OF A HEADER.

3.14.6.3 HEADERS CAN ONLY BE USED ON HEAT PUMP SYSTEMS, NOT HEAT RECOVERY SYSTEMS.

3.14.7 MULTI CHASSIS ODU SYSTEMS

3.14.7.1 PIPE CONNECTIONS BETWEEN ODU'S MUST BE LESS THAN 33 FEET.

3.14.7.2 ALL ODU'S ON A MULTI CHASSIS SYSTEM BUT BE INSTALLED AT THE SAME ELEVATION.

3.14.7.3 CHASSIS MORE THAN 6.5 FEET APART REQUIRE AN INVERTED TRAP ON SUCTION LINE (AND HOT GAS LINE FOR HEAT RECOVERY SYSTEMS), SEE INSTALLATION MANUAL FOR SPECIFIC INVERT LOCATION AND SIZE.

3.14.8 A HORIZONTAL PIPE RUN SLOPE TO THE ODU'S MAY NOT SLOPE DOWN HILL. LEVEL OR UPHILL ARE ACCEPTABLE.

3.14.9 SUFFICIENT PIPING PROTECTION AT THE ODU'S MUST BE ASSURED. AS NEEDED, CONTACT INSIGHT PARTNERS FOR ASSISTANCE IN DETERMINING THE PROPER METHOD FOR YOUR PARTICULAR INSTALLATION.

4.0 INSTALLATION OF HEAT RECOVERY UNITS AND OTHER EQUIPMENT

4.1 THE MCU MUST BE INSTALLED RIGHT SIDE UP AND PLUMB HORIZONTAL. UPSIDE DOWN OR SIDEWAYS IS NOT PERMITTED.

4.2 THE MCU MUST BE SUPPORTED FROM (2) HANGERS, BOTH SIDES.

4.3 BE SURE TO CONNECT THE PROPER PIPE TO THE CORRECT CONNECTION. THE CORRECT CONNECTION IS CLEARLY LABELED OF THE UNIT.

4.3.1 IDU'S CAN BE CONNECTED IN ANY ORDER TO MCU PORTS.

4.3.2 THE THREE SYSTEM PIPES ON THE OUTLET SIDE OF THE MCU, IF UNUSED MUST BE CAPPED.

4.4 THE "20-INCH RULE" SHALL BE APPLIED BETWEEN FITTINGS, INCLUDING Y-BRANCH FITTINGS. IT IS RECOMMENDED TO HAVE 36" MINIMUM BETWEEN CONSECUTIVE Y-BRANCHES.

5.0 PRESSURE TESTING

5.1 LEAK TEST ONLY THE PIPING AND IDU'S. LEAVE ALL OUTDOOR UNIT SERVICE VALVES CLOSED.

5.2 PRESSURIZE ALL (3) REFRIGERANT LINES (HEAT RECOVERY SYSTEMS) OR BOTH REFRIGERANT LINES (HEAT PUMP SYSTEMS) WITH NITROGEN.

5.2.1 STEP 1: PRESSURIZE TO 100 PSI FOR (5) MINUTES.

5.2.2 STEP 2: PRESSURIZE TO 300 PSI FOR (5) MINUTES.

5.2.3 STEP 3: INCREASE PRESSURE TO 600 PSI FOR (24) HOURS.

5.3 AMBIENT TEMPERATURE PRESSURE CALIBRATION

5.3.1 USE THE FOLLOWING FORMULA TO ACCOUNT FOR TEMPERATURE DIFFERENCES BETWEEN BEGINNING AND END OF STEP 3 PRESSURE TEST.

(Tp - Tc) X 0.80 = PRESSURE DROP (PD)

Tp - TEMPERATURE AT BEGINNING OF TEST PERIOD

Tc - TEMPERATURE AT END OF TEST PERIOD

PD - ALLOWABLE PRESSURE DIFFERENCE BASED ON CHANGE IN TEMPERATURE.

EXAMPLE:

Tp = 90F, Tc = 80F - - - - - PD = (90 - 80) X 0.80 = 6.4 psi

IF PRESSURE DROPPED FROM 600 TO 590 IN 24 HR PERIOD,

600 - 590 = 10 PSI, 10 > 6.4, SYSTEM IS NOT SEALED.

5.3 IF ALL (3) STEPS ARE PASSED, EVACUATION SHALL COMMENCE.

6.0 TRIPLE EVACUATION PROCEDURE

6.1 EVACUATE THE SYSTEM TO 4000 MICRONS

6.1.1 BREAK VACUUM WITH DRY NITROGEN AND HOLD FOR 15 MINUTES.

6.2 EVACUATE THE SYSTEM DOWN TO 1500 MICRONS.

6.2.1 BREAK VACUUM WITH DRY NITROGEN AND HOLD FOR 15 MINUTES.

6.3 EVACUATE THE SYSTEM DOWN TO 500 MICRONS OR LESS

6.3.1 HOLD VACUUM FOR 60 MINUTES.

6.3.2 DO NOT REMOVE MANIFOLD GAUGES WITH SYSTEM UNDER VACUUM.

6.3.3 DO NOT LEAVE SYSTEM UNDER VACUUM.

6.4 USE THE SYSTEM VACUUM TO DRAW IN THE ADDITIONAL REFRIGERANT CHARGE AS CALCULATED BY DVM-S AND THEN OPEN THE OUTDOOR UNIT SERVICE VALVES.

6.4.1 DO NOT ADD REFRIGERANT TO SYSTEM OR OPEN KING VALVES ON ODU'S PRIOR TO COORDINATING WITH THE INSIGHT PARTNERS SERVICE MANAGER.

8.0 CONTROL WIRING

8.1 ALL WIRING MUST BE COMPLETED IN 16 GAUGE, 2-CONDUCTOR, STRANDED, SHIELDED WIRE.

8.2 USE ROUND PRESSURE TERMINALS FOR CONNECTION TO THE POWER TERMINAL BLOCK.

8.3 BE SURE TO MAINTAIN SUFFICIENT SPACING OF COMMUNICATION AND POWER WIRING THAT ARE RUNNING PARALLEL TO ONE ANOTHER.

8.3.1 SPACING FOR 100 VAC OR MORE:

8.3.1.1 10A: 11-13/16"

8.3.1.2 50A: 19-11/16"

8.3.1.3 100A: 39-3/8"

8.3.1.4 >100A: 59-1/16"

8.4 ALL WIRING MUST BE IN A DAISY CHAIN CONFIGURATION. "STAR" CONFIGURATION IS NOT ACCEPTABLE.

8.5 SPLICE SHIELDS TOGETHER AT IDU'S, BUT DO NOT GROUND. GROUND ONLY AT ODU MASTER.

9.0 PREPARATION FOR COMMISSIONING

9.1 ENSURE ALL INSTALLATION METHODS PREVIOUSLY LISTED IN THIS DOCUMENTATION HAVE BEEN COMPLETED.

9.2 COMPLETE THE ASSISTED DVM-S START UP PRE-CHECK LIST.

9.3 COMPLETE THE DVM-S AS-BUILT MARKUPS.

9.4 PROVIDE MODEL AND SERIAL NUMBERS OF ALL EQUIPMENT, MATCHED PER SYSTEM.

9.4.1 EACH FCU IS PROVIDED WITH SERIAL NUMBER STICKERS, THE STICKERS SHOULD BE PUT ON A PLAN DRAWING NEXT TO IT'S ASSOCIATED FCU. THIS WILL BE USED IN THE COMMISSIONING PROCESS.

10.0 VRF SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASHRAE 15.

11.0 CONTACT INFORMATION

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TAMPA, FL 33610

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MLEAF@INSIGHTUSA.COM
WWW.INSIGHTUSA.COM

SAMSUNG VRF LEGEND

- CONDENSING UNIT; 1-PHASE; HEAT PUMP; AMO__FXMDCH; 3-4.5 TON
- CONDENSING UNIT; 1-PHASE; HEAT PUMP; AMO__MXMDCH; 5 TON
- CONDENSING UNIT; 1-PHASE; HEAT RECOVERY; AMO__NXMDCB; 3-5 TONS
- CONDENSING UNIT; 3-PHASE; HEAT PUMP (208/3); AMO__FXVAFH2AA; 6-44 TONS; HEAT PUMP (460/3); AMO__FXVAJR2AA; 6-44 TONS; HEAT RECOVERY (208/3); AMO__FXVAFR2AA 6-44 TONS; HEAT RECOVERY (460/3); AMO__FXVAJR2AA 6-44 TONS
- MCU-S1NEK1N; 1-PORT MODE CHANGE UNIT; 54 MBH PER PORT, 54 MBH MAX, UP TO 8 INDOOR UNITS
- MCU-S2NEK2N; 2-PORT MODE CHANGE UNIT; 54 MBH PER PORT, 108 MBH MAX, UP TO 16 INDOOR UNITS
- MCU-S4NEK3N; 4-PORT MODE CHANGE UNIT; 54 MBH PER PORT, 216 MBH MAX, UP TO 32 INDOOR UNITS
- MCU-S6NEK3N; 6-PORT MODE CHANGE UNIT; 54 MBH PER PORT, 216 MBH MAX, UP TO 32 INDOOR UNITS
- MCU-S8NEK3N; 4-PORT MODE CHANGE UNIT; 19 MBH PER PORT, 76 MBH MAX, UP TO 18 INDOOR UNITS
- AMO (09, 12, 18, 24, 30, 36, 48) KN4DCHAA; 360 CASSETTE CIRCLE
- AMO (09, 12, 18, 24, 30, 36, 48) KN4DCHAA; 360 CASSETTE SQUARE
- AMO (07, 09, 12) NNN1DCHAA; WIND-FREE 1-WAY CASSETTE
- AMO (09, 12, 18, 24, 30, 36, 48) NN4DCHAA; WIND-FREE 4-WAY CASSETTE (3x3)
- AMO (05, 07, 09, 12, 18, 20) NNNDCHAA; WIND-FREE MINI 4-WAY CASSETTE (2x2)
- AMO (07, 09, 12, 15, 18) MNMDCHAA; DUCT-S (MEDIUM STATIC) DUCTED FCU
- AMO (24, 27, 30, 36, 48) MNHDCHAA; DUCT-S (HIGH STATIC) DUCTED FCU
- AMO (54, 76, 96) JNHDCHAA; HPS DUCTED FCU
- AMO (07, 09, 12, 18, 24, 30, 36, 48) FNLDCHAA; SLIM DUCT FCU
- AMO (18, 24) FNCDCHAA; CEILING / FLOOR STANDING (REQUIRED AND EXTERNAL EEV KIT
- AMO (06, 09, 12, 18, 24) JNGDCHAA; FLOOR EXPOSED FCU
- AMO (06, 09, 12, 18, 24) JNFDCHAA; FLOOR CONCEALED FCU
- AMO (12, 18, 24, 30, 36, 48, 54, 60, 72) JNZDCHAA; MULTI-POSITION AHU
- AMO (07, 09, 12, 15, 18, 24, 28) MNVDCHAA; AR-5000 WALL MOUNTED
- AMO32MNQDCHAA; MAX WALL MOUNTED
- AMO (36, 48) JNCDCHAA; BIG CEILING SUSPENDED
- AMO (72, 96) JNESCHAA; OA PROCESSING UNIT
- 2-PIPE: LIQUID / SUCTION PIPING (SEE PIPING SCHEMATIC FOR SIZING)
- 3-PIPE: LIQUID/SUCTION/HI-LO GAS LINE (SEE PIPING SCHEMATIC FOR SIZING)
- CONDENSATE PIPING
- THERMOSTAT / CONTROL WIRING: 16/18 AWG, 2 WIRE, MULTI-STRANDED, NON-SHIELDED AND NON-POLARIZED DAISY CHAIN
- POWER WIRING
- RISER UP
- RISER DOWN
- BV ISOLATION VALVE
- T NAVIGATION CONTROLLER MN: BRC1E73
- SP Y-BRANCH PIPING HEADER (SEE PIPING SCHEMATIC FOR MODEL NUMBER)

ASSISTED DVM-S START-UP PRE-CHECK LIST

THE FOLLOWING CHECKLIST IS PROVIDED TO INSURE THAT ALL NECESSARY INSTALLATION ITEMS ARE COMPLETED PRIOR TO THE ASSISTED STARTUP OF DVM-S SYSTEM(S).

THIS DOCUMENT IS FOR REFERENCE ONLY AND IS NOT AN INSTRUCTION MANUAL. PLEASE REFER TO SAMSUNG INSTALLATION MANUALS FOR PROPER INSTALLATION METHODS, PROCEDURES, AND DATA. ALL INSTALLING COMPANIES MUST ATTEND DVM TRAINING BEFORE INSTALLATION OF SAMSUNG DVM EQUIPMENT. ONLY BASIC INSTALLATION POINTS ARE NOTED WITHIN THIS DOCUMENT. LOCAL AND STATE CODES IN YOUR AREA WILL TAKE PRIORITY OVER INFORMATION IN THIS CHECKLIST. NOT ALL EQUIPMENT DISCUSSED IN THIS DOCUMENT WILL APPLY TO YOUR PROJECT.

PLEASE FILL OUT 1 FORM PER SYSTEM.

PROJECT/JOB/LOCATION NAME:	
SITE ADDRESS:	
INSTALLING CONTRACTOR COMPANY:	
INSTALLING CONTRACTOR NAME:	
# OF ODU:	

BY PLACING (BLOCK LETTERING) YOUR INITIALS IN THE COLUMN, YOU HAVE AGREED THAT THIS IS COMPLETED TO THE SPECIFICATION(S).

		INITIALS
1.0 PIPING		
1.01	ALL Y-JOINTS AND OUTDOOR UNIT TEE'S WERE PROVIDED BY SAMSUNG (NON-SAMSUNG FITTINGS WILL VOID WARRANTY)	
1.02	INDOOR REFRIGERANT Y-JOINTS ARE INSTALLED LEVEL, WITHIN 15? IN EITHER DIRECTION	
1.03	OUTDOOR MODULES REFRIGERANT TEE'S ARE INSTALLED LEVEL, NOT POINTING UP OR DOWN (MULTI MODULE SYSTEMS ONLY)	
1.04	UNUSED MCU PORT CAPS HAVE BEEN TIGHTENED TO SPEC AND ARE INSULATED	
1.05	ALL REFRIGERANT PIPES ARE INSULATED PER SAMSUNG RECOMMENDATIONS	
1.06	ALL SAMSUNG REFRIGERANT FITTINGS ARE INSULATED WITH SUPPLIED POLYSTYRENE INSULATION AND SEAMS ARE TAPED/SEALED TO PREVENT CONDENSATION	
1.07	ALL REFRIGERANT PIPE INSULATION JOINTS ARE SEALED WITH APPROPRIATE ADHESIVES AND/OR TAPES	
1.08	ALL CONDENSATION DRAIN PIPES ARE INSTALLED, INSULATED, AND SUPPORTED	
1.09	REFRIGERANT Y-JOINTS ARE SUPPORTED ON BOTH SIDES WITHIN 18"	
1.10	THERE IS A MINIMUM 20" BETWEEN Y-JOINT OUTLET/INLET AND ELBOWS	
1.11	THERE IS A MINIMUM 36" BETWEEN Y-JOINTS	
1.12	ALL ISOLATION VALVES (WHEN USED) ARE INSTALLED IN THE APPROPRIATE DIRECTION, INSULATED, AND COMPLETELY OPEN (ISOLATION VALVES WITH SERVICE PORTS ARE RECOMMENDED. INSTALL SO THE SERVICE PORT IS TOWARDS THE INDOOR UNIT(S) OR MCU(S)	
1.13	REFRIGERANT PIPE SYSTEM WAS PRESSURE CHECKED PER SAMSUNG RECOMMENDATION (150 PSIG FOR 15 MINUTES, 300 PSIG FOR 15 MINUTES, 600 PSIG FOR 24 HOURS)	
1.14	VACUUM PROCESS WAS PERFORMED ON THE REFRIGERANT PIPE SYSTEM PER SAMSUNG RECOMMENDATIONS (TO 500 MICRONS FOR 60 MINUTES)	
1.15	ADDITIONAL REFRIGERANT WAS ADDED TO THE SYSTEM AS CALCULATED BY DVM PRO SOFTWARE. (LENGTH OF EACH DIAMETER OF LIQUID REFRIGERANT PIPE MUST RECORDED TO ACCURATELY CALCULATE ADDITIONAL REFRIGERANT) DO NOT ADD REFRIGERANT PRIOR TO COORDINATING WITH INSIGHT PARTNERS SERVICE MANAGER.	
1.16	CONDENSING UNIT SERVICE VALVES ARE OPEN WITH VALVE COVERS REINSTALLED AND TIGHTENED	
2.0 MCU (MODE CHANGE UNIT) AND MXD EEV KITS		INITIALS
2.01	MCU'S HAVE BEEN INSTALLED LEVEL	
2.02	MEV EEV KITS (SINGLE UNIT) HAVE BEEN INSTALLED VERTICALLY LEVEL AND MUFFLERS ARE INSTALLED ON INLET SIDE OF SINGLE UNIT EEV KITS.	
2.03	ALL 208/230 VAC SUPPLY VOLTAGE TO THE MCU(S) HAS BEEN CONNECTED BY A LICENSED ELECTRICIAN	
3.0 CONDENSING UNIT		INITIALS
3.01	YOU MUST HAVE IN YOUR POSSESSION A COPY OF THE 'AS-DESIGNED' DVM PRO PIPING TREE DIAGRAM. BEFORE ANY FIELD PIPE SIZE OR LENGTH CHANGES ARE MADE, PROPOSED CHANGES MUST BE FORWARDED TO THE DESIGN ENGINEER SO THAT THEY CAN INPUT THE CHANGES INTO DVM PRO AND RE-ISSUE A NEW PIPING TREE DIAGRAM.	
3.02	CONDENSING UNIT IS PROPERLY INSTALLED AND MEETS ALL GUIDELINES	
3.03	CORRECT SUPPLY VOLTAGE TO THE CONDENSING UNIT(S) HAS BEEN CONNECTED.	
3.04	ALL COM1 (F1/F2, OF1/OF2) COMMUNICATION WIRES HAVE BEEN CONNECTED (16 AWG X 2 SHIELDED)	
3.05	COM1 SHIELDED CABLE BARE WIRE IS GROUNDED AT THE OUTDOOR UNIT ON A SEPARATE TERMINAL THAN THE MAIN SERVICE GROUND CONNECTION	
3.06	ALL CENTRAL CONTROL COMMUNICATION WIRES (R1/R2) HAVE BEEN CONNECTED R1/R2 TERMINALS IN MAIN OUTDOOR UNIT(S) (REQUIRED FOR PROJECTS WHERE CENTRAL CONTROL OPTIONS ARE BEING INSTALLED. 16 AWG X 2 SHIELDED)	
4.0 INDOOR UNITS		INITIALS
4.01	1-WAY AND MINI 4-WAY CASSETTE UNITS ARE 60" MINIMUM FROM NEARBY WALLS AND OBSTRUCTIONS ON ALL SIDES (1-WAY ON ALL SIDES EXCLUDING RETURN AIR SIDE OF UNIT) MINIMUM 10' BETWEEN INSTALLED 4-WAY AND MINI 4-WAY CASSETTES.	
4.02	WALL MOUNTED UNITS HAVE SUFFICIENT SPACE IN FRONT OF THEM TO THE NEAREST WALL OR OBSTRUCTION (WALL MOUNTED UNITS ARE 6' MINIMUM FROM THE GROUND)	
4.03	ALL CONDENSATE DRAIN PIPES ARE INSTALLED AND INSULATED	
4.04	ALL REFRIGERANT PIPE INSULATION IS INSTALLED, SEALED AND SUPPORTED.	
4.05	ALL COM1 (F1/F2) AND COM2 (F3/F4) WIRE IS 16 AWG X 2, SHIELDED CABLE AND COMMUNICATION WIRES ARE CONNECTED.	
4.06	SHIELD AND BARE WIRE IN COM1 (F1/F2) WIRE IS NOT TOUCHING INDOOR UNIT PCB'S OR OTHER COMMUNICATION OR VOLTAGE CONNECTIONS.	
4.07	CONDENSATE PUMP OVERFLOW RELAY IS CONNECTED TO BREAK CN83 EXTERNAL CONTACT CONNECTION (REQUIRES INDOOR UNIT OPTION SETTING TO FUNCTION) OPTION 14 - SET TO 2 (SYSTEM MUST BE WIRED AND POWER MUST BE APPLIED, FOR WALL MOUNT UNITS ONLY)	
4.08	DUCTED INDOOR UNIT OPTION SETTING HAS BEEN ADJUST FOR USE OF INTERNAL SAMSUNG CONDENSATE PUMPS. OPTION 8 - SET TO 1 FOR PUMP USE, SET TO 2 FOR PUMP USE WITH 3 MINUTE OFF-DELAY (SYSTEM MUST BE WIRED AND POWER MUST BE APPLIED, FOR DUCTED UNITS THAT HAVE OPTIONAL SAMSUNG PUMP FIELD INSTALLED)	
4.09	DUCTED UNIT DUCT CONNECTIONS ARE COMPLETE AND SEALED AND FILTERS ARE IN PLACE.	
5.0 CONTROLLERS		INITIALS
5.01	ALL COM2 (F3/F4) WIRE IS 16 AWG X 2, SHIELDED CABLE THROUGHOUT THE BUILDING	
5.02	CENTRAL CONTROL WIRES HAVE BEEN RUN FROM THE MAIN OUTDOOR UNIT (R1/R2) TO THE INSTALLATION LOCATION OF CENTRAL CONTROLLER(S) FOR PROJECTS WITH CENTRAL CONTROL OPTIONS. 16 AWG X 2 SHIELDED CABLE	
5.03	OPTIONAL REMOTE TEMP. SENSOR MRW-TA HAS BEEN CONNECTED TO INDOOR UNIT(S) INDOOR UNIT OPTION SETTING HAS BEEN ADJUSTED FOR EXTERNAL SENSOR USE. OPTION 4 - SET TO 1 WHEN USING MRW-TA SENSOR (SYSTEM MUST BE WIRED AND POWER MUST BE APPLIED)	
6.0 POWER WIRE & COMMUNICATION CABLES		INITIALS
6.01	GROUND WIRE WAS INSTALLED AND PROPERLY TERMINATED AT THE OUTDOOR UNIT(S).	
6.02	POWER SUPPLIED IS CLEAN WITH VOLTAGE FLUCTUATIONS WITHIN SPECIFICATIONS. (±10% OF NAMEPLATE FOR 208-230V & 460V UNITS)	
6.03	POWER WIRING TO THE OUTDOOR UNIT(S) WAS INSTALLED PER ALL LOCAL ELECTRICAL CODE REQUIREMENTS.	
6.04	POWER WIRING TO EACH INDOOR UNIT WAS INSTALLED PER ALL LOCAL ELECTRICAL CODE REQUIREMENTS.	
6.05	COMMUNICATIONS CABLE BETWEEN THE OUTDOOR UNIT(S) AND INDOOR UNITS WAS CONNECTED IN A DAISY CHAIN CONFIGURATION (I.E., SINGLE PARALLEL CHAIN). NO 'STAR' OR MULTIPLE PARALLEL CIRCUITS. NO CABLE SPLICES OR WIRE CAPS WERE USED TO CONNECT COMMUNICATIONS CABLES.	
7.0 INSIGHT PARTNERS INFORMATION		
7.01	INSIGHT PARTNERS VRF PROJECT MANAGER MARK E LEAF MLEAF@INSIGHTUSA.COM CELL: (813) 760-4368	
7.02	COORDINATE PROJECT SITE VISITS (INTERMEDIATE PROGRESS AND COMMISSIONING) WITH SERVICE MANAGER 2 WEEKS IN ADVANCE OF EACH SITE VISIT.	
7.03	COORDINATE WARRANTY SUBMISSION DOCUMENTATION WITH SERVICE MANAGER PRIOR TO PROJECT COMMISSIONING SITE VISIT.	
7.04	COORDINATE PIPING LENGTH AS-BUILTS MARK-UPS PRIOR TO PROJECT COMMISSIONING SITE VISIT.	
7.05	DO NOT POWER EQUIPMENT OR ADD REFRIGERANT PRIOR TO COORDINATING WITH INSIGHT SERVICE MANAGER.	

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WHITFIELD COUNTY GYM PRINTED DATE: 09/16/20

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SEAL

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 015330 MARK E. LEAF

WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER

DALTON, GEORGIA

SHEET TITLE:
LEGEND
INSTALLATION NOTES

PRINTED:

NUMBER:
M-1

Sep 16 2020 | C:\2020-02\whitfield gym\2020-02M1.dwg

AIR DISTRIBUTION SCHEDULE

MARK	DESCRIPTION	KRUEGER MODEL	TITUS	PANEL SIZE	REMARKS
A	NAILOR "4320" PERFORATED SUPPLY AIR CEILING DIFFUSER.	6604	PAS	24X24	1,2,3
B	NAILOR "51EC" EGGCRATE 1/2"X1/2"X1/2" GRID RETURN AIR GRILLE.	ECG5	50P	24X24	1
C	NAILOR "61DV-0" SUPPLY AIR DOUBLE DEFLECTION REGISTER. SEE FLOOR PLAN FOR SIZE.	880-V-OBD	272RL	SEE FLOOR PLAN	1,2,3
D	NAILOR "6145H" RETURN AIR GRILLE. SEE FLOOR PLAN FOR SIZE.	S80H	25R	SEE FLOOR PLAN	1
E	NAILOR "49-281" SUPPLY AIR LINEAR BAR GRILLE.			SEE FLOOR PLAN	1,3

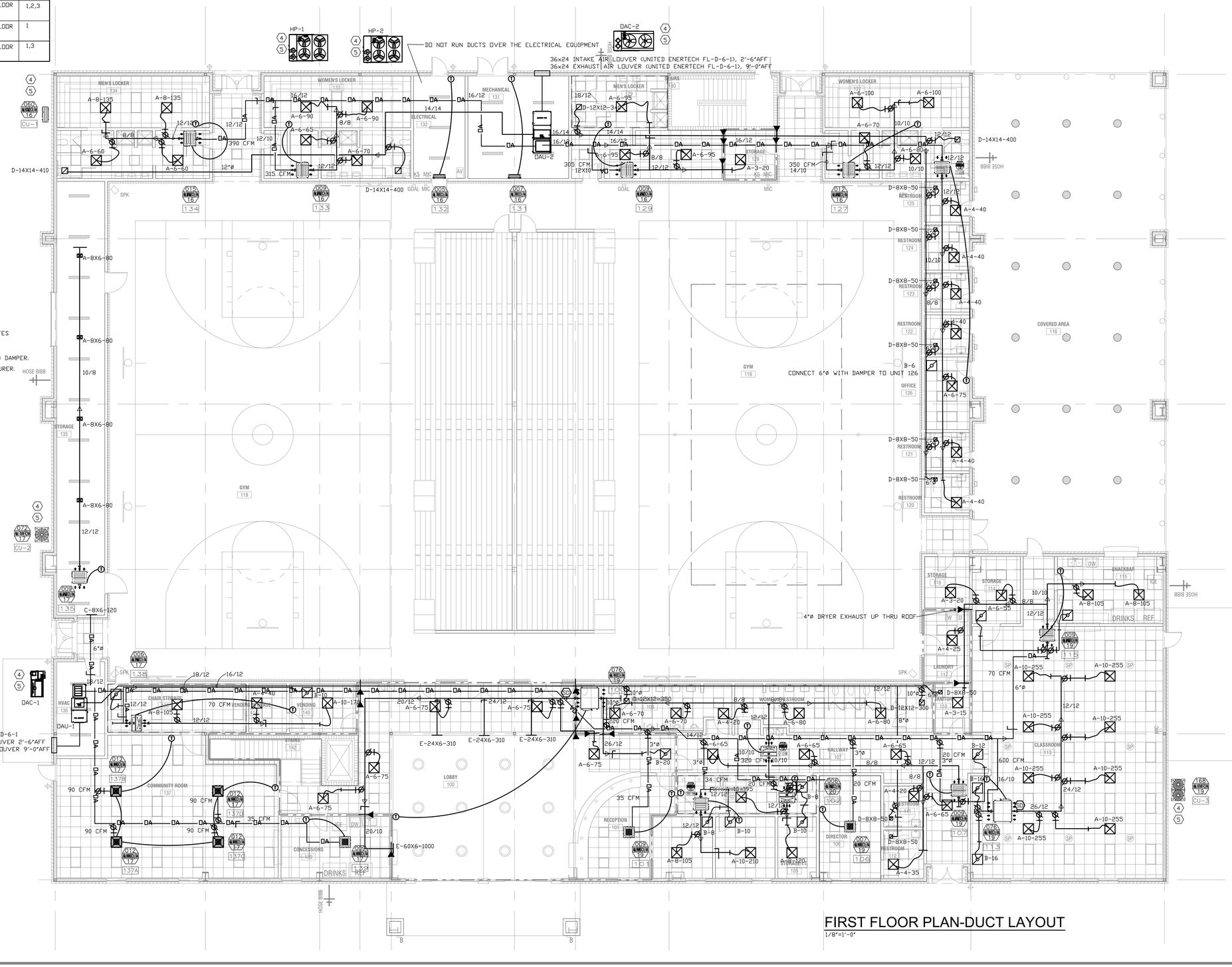
1. STEEL. FINISH AND BORDER SHALL MATCH CEILING. SEE ARCHITECT DRAWING FOR THE TYPE OF CEILING.
2. MANUAL VOLUME DAMPER.
3. FACTORY INSULATED DIFFUSER AT UNCONDITIONED AREA OR NO RETURN AIR PLENUM.

LEGEND

- D — CONDENSATE DRAIN
- EXHAUST AIR
- FD — FIRE DAMPER WITH ACCESS PANEL.
- SA — SUPPLY AIR
- RA — RETURN AIR
- T — THERMOSTAT (PROGRAMMABLE)
- SD — SMOKE DETECTOR IN SUPPLY AIR DUCT AS PER GA. AMENDMENTS606.2.1
- A-8-100 — CFM; NECK SIZE; AIR DISTRIBUTION DEVICE SEE SCHEDULE.
- SPIN IN FITTING WITH MANUAL VOLUME DAMPER
- MVD — MANUAL VOLUME DAMPER
- CONTINUOUS LINE INDICATES NEW DUCTWORK
- DA — OUTSIDE AIR

KEY NOTES:

1. PROVIDE AUXILLIARY DRAIN PAN UNDER THE COOLING COIL. SEE HVAC GENERAL NOTES
2. RETURN AIR DUCT PLENUM FULL SIZE OF UNIT CONNECTION.
3. CARBON DIAOXIDE SENSOR ON RETURN AIR SHALL MODULATE OUTSIDE AIR MOTORIZED DAMPER.
4. MAINTAIN CLEARANCES AROUND AND BETWEEN UNITS AS RECOMMENDED BY MANUFACTURER.
5. MOUNT CONDENSING UNIT ON 4" HIGH CONCRETE PAD.



FIRST FLOOR PLAN-DUCT LAYOUT

1/8"=1'-0"

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SEAL

GEORGIA REGISTERED PROFESSIONAL ENGINEER

WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER

DALTON, GEORGIA

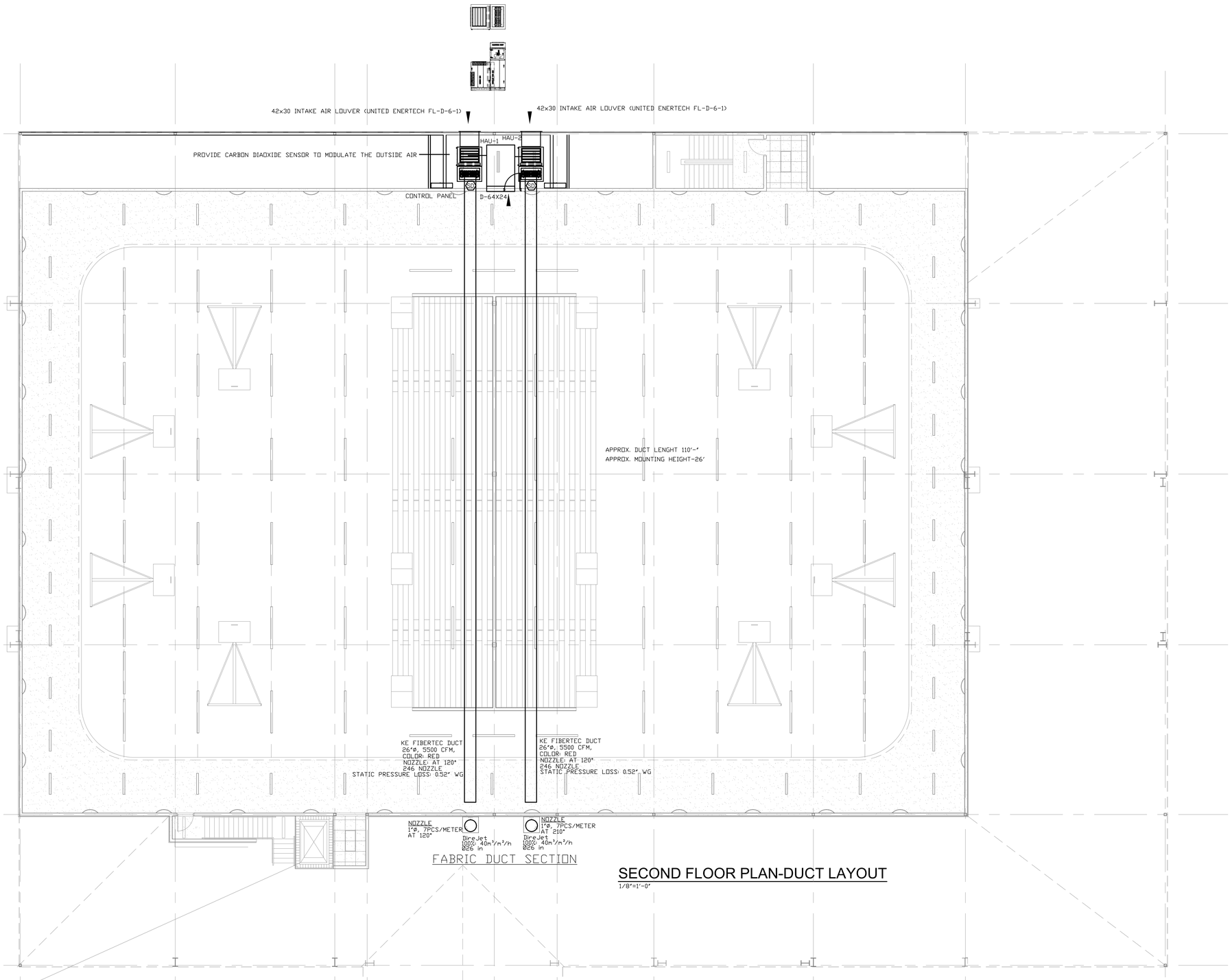
SHEET TITLE:
FIRST FLOOR PLAN
DUCT LAYOUT

PRINTED:

NUMBER: M-2

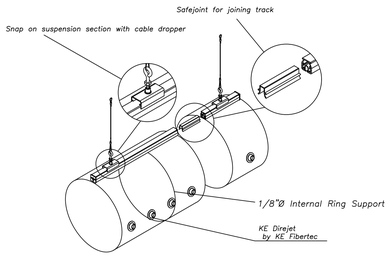
WHITFIELD COUNTY GYM PRINTED DATE: 09/16/20

Sep 16 2020 | C:\2020-02\whitfield gym\2020-02M2.dwg



SECOND FLOOR PLAN-DUCT LAYOUT

1/8"=1'-0"



Single Track Suspension Detail

for KE Fibertec Fabric Ducts (12 o' clock Attachment)

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WHITFIELD COUNTY GYM PRINTED DATE: 09/16/20

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CONSULTANTS

Date Plotted : Sep 16, 2020 - 3:27pm
file: 2020-02M3.DWG

ATLANTA MANAGEMENT AND ENGINEERING CONSULTANTS, INC.
2081 LULLWATER PLACE, LAWRENCEVILLE, GA. 30043
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SEAL

GEORGIA REGISTERED PROFESSIONAL ENGINEER 015335 J. T. TARLTON

WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER

DALTON, GEORGIA

SHEET TITLE:
SECOND FLOOR PLAN
DUCT LAYOUT

PRINTED:

NUMBER:
M-3

FIRST FLOOR PLAN-PIPING

1/8"=1'-0"

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CONSULTANTS

Date Plotted : Sep 16, 2020 - 2:51pm
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SEAL

GEORGIA REGISTERED PROFESSIONAL ENGINEER 015335 J. FARLIN

WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER

DALTON, GEORGIA

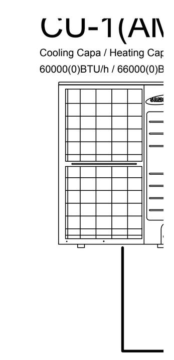
SHEET TITLE: FIRST FLOOR PIPING

PRINTED:

NUMBER: M-4

WHITFIELD COUNTY GYM PRINTED DATE: 09/16/20

Sep 16 2020 | C:\2020-02\whitfield gym\2020-02M1.dwg



VARIABLE REFRIGERANT FLOW CONDENSING UNIT SCHEDULE

LEVEL	TAG	MODEL NUMBER	CONN. RATIO COOLING (%)	CONN. RATIO HEATING (%)	PAIRED SYTEM COMBINATIONS (BTUH)	TYPE	MODE	NOMINAL TONAGE (TONS)	NOMINAL COOLING (BTUH/H)	NOMINAL HEATING (BTUH/H)	RATED COOLING (BTUH/H)	RATED HEATING (BTUH/H)	AMBIENT DESIGN COOLING (DF DB)	AMBIENT DESIGN HEATING (DF DB)	REFRIGERANT TYPE	REFRIGERANT BASE CHARGE (LBS)	DIMENSIONS (W x H x D) (IN)	WEIGHT (LBS)	ELECTRICAL VOLTAGE (V / Ph / Hz) (A)	ELECTRICAL MCA (A)	ELECTRICAL MOCP (A)	SOUND PRESSURE COOLING dB(A)	SOUND POWER COOLING dB(A)	SEER DUCTED / NON-DUCTED –	EER NON-DUCTED (BTUH/H)	EER DUCTED (BTUH/H)	IEER NON-DUCTED (BTUH/H)	IEER DUCTED (BTUH/H)	HIGH COP (47F) NON-DUCTED (W)	HIGH COP (47F) DUCTED (W)	HSPF (1-PHASE) SCHE (3-PHASE) NON-DUCTED (BTUH/H)	HSPF (1-PHASE) SCHE (3-PHASE) DUCTED (BTUH/H)	NOTES
	CU-1	AM060NXMDCR/AA	110.0	112.6	–	DVM-S ECO	HEAT RECOVERY	5	60,000	66,000	–	–	80.0	67.0	R410A	8.20	37.0x55.9 x13.0	297.6	208/1/60	32.0	50.0	58.0	76.0	17.1/20.6	11.20	10.90	–	–	–	3.54	10.90	11.50	1-13
	CU-2	AM072FXVAFR2AA	101.8	101.4	–	DVM S	HEAT RECOVERY	6	72,000	81,000	69,000	77,000	80.0	67.0	R410A	12.13	34.7x66.7x30.1	445.3	208-230/3/60	28.0	35.0	60.0	77.0	– / –	11.00	11.00	24.20	20.20	3.30	3.30	24.70	24.20	1-13
	CU-3	AM168HXVAFR2AA	124.8	123.5	–	DVM S	HEAT RECOVERY	14	168,000	189,000	160,000	180,000	80.0	67.0	R410A	24.25	51.0x66.7x30.1	760.6	208-230/3/60	66.0	80.0	63.0	85.0	– / –	10.60	10.60	19.80	18.70	3.20	3.20	22.30	22.80	1-13

NOTES

1. BASIS OF DESIGN: SAMSUNG DVM-S-ECO (SINGLE PHASE & THREE PHASE) HEAT RECOVERY SYSTEM (SIMULTANEOUS HEATING AND COOLING)
2. THE POWER SUPPLY TO THE OUTDOOR UNIT IS 208-230 VOLTS, 1 & 3 PHASE, 60 HERTZ +/- 10%
3. INVERTER (VFD DRIVEN) SCROLL COMPRESSOR(S)
4. CONTRACTOR TO PROVIDE INSULATED ACR RATED COPPER. REFER TO REFRIGERANT PIPING NOTES SPECIFIC REQUIREMENTS
5. EACH CONDENSING UNIT TO CONNECT TO INDIVIDUAL SAMSUNG INDOOR UNITS AS SHOWN ON FLOOR PLAN, PIPING AND CONTROLS DIAGRAM.
6. PROVIDED SINGLE POINTS OF CONNECTION. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECTS AND GFI CONVENIENCE OUTLETS.
7. STANDARD ACCESSORIES INCLUDE INTERNAL COMPRESSOR HIGH AND LOW PRESSURE AND TEMPERATURE PROTECTION, LIQUID LINE FILTER/DRYERS, LOW PRESSURE SWITCHES, ELECTRONIC EXPANSION VALVES AND VFD CONTROLLED OUTDOOR FAN MOTOR.
8. THE MECHANICAL CONTRACTOR MUST OBTAIN SUBMITTAL APPROVAL FROM BOTH THE ELECTRICAL AND MECHANICAL ENGINEERS BEFORE PLACING THE FINAL ORDER.
9. THE OUTDOOR UNIT IS CAPABLE OF HEATING OPERATION AT 0°F DRY BULB AMBIENT TEMPERATURE WITHOUT ADDITIONAL LOW AMBIENT CONTROLS
10. CONTRACTOR TO PROVIDE DAISY CHAIN CONTROL WIRING. WIRE SPECIFICATIONS ARE 2 WIRE, 16 AWG, NON-POLARITY, SHIELDED, STRANDED BETWEEN ALL SYSTEM COMPONENTS
11. THE CONDENSING UNIT COIL SHALL HAVE A MINIMUM OF 2,280 HOUR CORROSION COATING AS PER SALT SPRAY TEST METHOD ASTM-B117.
12. PROVIDE A SAMSUNG DMS 2.5 (DATA MANAGEMENT SERVER) MN:MIM-D01AUN CENTRALIZED CONTROLLER
13. PROVIDE A 10-YEAR PARTS ONLY WARRANTY ON ENTIRE SYSTEM WITH PRODUCT REGISTRATION.

SPLIT SYSTEM HEAT PUMP UNIT WITH ELECTRIC HEAT SCHEDULE

MARK	NET COOLING CAPACITY TOTAL MBH	NET COOLING CAPACITY SENSIBLE MBH	HEATING CAPACITY AUX. HEAT	HEATING CAPACITY REHEAT MBH	HEATING CAPACITY HEATING @47°F	OUTSIDE AIR	FAN DATA CFM	FAN DATA EXT. SP	FAN DATA BHP	MANUFACTURER	MODEL	EER	COP	REMARKS	VOLTS	MCA	BRKR
HP-1 HAU-1	281.07	197.27	63.0 KW	124	314.6 MBH	3500	5500	1.5	2@2.16	AAON	CFA-030-C-A-8-DJ00K-0-00-LO-00-000D--JE00-000E00-0A000B V3-ERB-8-0-162C-3M-BCDE-TE0-FTB-H00-00A0AN0-00-CC000B000	9.2	3.59	1,2,3,4,5,6,7,8,9,10,11	208/3/60 208/3/60	129 196	175/3 225/3
HP-2 HAU-2	281.07	197.27	63.0 KW	124	314.6 MBH	3500	5500	1.5	2@2.16	AAON	CFA-030-C-A-8-DJ00K-0-00-LO-00-000D--JE00-000E00-0A000B V3-ERB-8-0-162C-3M4-BCDE-TE0-FTB-H00-00A0AN0-00-CC000B000	9.2	3.59	1,2,3,4,5,6,7,8,9.10,11	208/3/60 208/3/60	129 196	175/3 225/3

1. FILTER BOX-2" PLEATED-30% EFF.
2. VERTICAL AIRHANDLER
3. MAX. SOUND LEVEL=75DBA
4. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.
5. EXTERNAL STATIC PRESSURE DROP DOES NOT INCULDE COOLING COIL PRESSURE DROP.
6. EXPANSION VALVE, POLYMER ENERGY RECOVERY WHEEL, OUTSIDE AIR TEMPERATURE SENSOR/HUMIDITY SENSOR, SUPPLY AIR TEMP SENSOR, BUILDING PRESSURE SENSOR, PROOF OF AIR FLOW, SAFETY SHUT DOWN
7. REFRIGERANT=R410A OR PURON.
8. CONTROL PANEL, SCR ELECTRIC HEAT, ECM MOTOR, MODULATING GAS REHEAT, HOT GAS BYPASS, MODULATING DAMPERS WITH MIXING BOX, MAKE UP AIR CONTROLLER, ENERGY RECOVERY WHEEL ROTATION DETECTION, CRANKCASE HEATER, MODULATING SCR ELECTRIC HEAT
9. TWO CIRCUITS, ECONOMIZER, DEMAND CONTROL OUTSIDE AIR (CARBON DIOXIDE SENSOR)
10. OUTSIDE AIR: SUMMER-100 °F DB./75.6 °F WB, WINTER: 17° F DB
11. ALL SECTIONS OF THE UNIT SHOULD PASS THRU 36" DOOR.

VARIABLE REFRIGERANT FLOW FAN COIL UNIT SCHEDULE

LEVEL	ROOM NAME	FCU TAG	CONNECTS TO	MANUFACTURER	MODEL	DESCRIPTION	MODE	NOMINAL TONAGE (LBS)	TOTAL COOLING (BTUH / H)	SENSIBLE COOLING (BTUH / H)	TOTAL HEATING (BTUH / H)	SUPPLY AIRFLOW HIGH / MED/ LOW (CFM)	E.S.P. MIN/STND/MAX (IN. WG)	REFRIG. TYPE	DIMENSIONS (W x H x D) (IN)	WEIGHT (LBS)	VOLTAGE (V / Ph / Hz) (A)	MCA (A)	MOCP (A)	SOUND PRESSURE L / M / H dB(A)	SOUND POWER COOLING dB(A)	LIQUID PIPIE SIZE (IN)	SUCTION PIPIE SIZE (IN)	NOTES
1F	126 OFFICE	126	CU-1	SAMSUNG	AM007MNMDCH/AA	DUCT-S	HP / HR	0.58	7,500	5,800	8,500	318 / 265 / 212	0.0 / 0.04 / 0.6	R410A	33-7/16 x 9-13/16 x 27-9/16	69.4	208-230/1/60	1.4	15.0	26 / 24 / 22	48	1/4"	1/2"	1-14
1F	127 WOMENS LOCKER	127	CU-1	SAMSUNG	AM012MNMDCH/AA	DUCT-S	HP / HR	1.00	12,000	9,100	13,500	353 / 300 / 247	0.0 / 0.04 / 0.6	R410A	33-7/16 x 9-13/16 x 27-9/16	69.4	208-230/1/60	1.4	15.0	27 / 25 / 23	49	1/4"	1/2"	1-14
1F	129 MEN'S LOCKER	129	CU-1	SAMSUNG	AM009MNMDCH/AA	DUCT-S	HP / HR	0.75	9,500	7,400	10,500	318 / 265 / 212	0.0 / 0.04 / 0.6	R410A	33-7/16 x 9-13/16 x 27-9/16	69.4	208-230/1/60	1.4	15.0	26 / 24 / 22	48	1/4"	1/2"	1-14
1F	131 MECHANICAL	131	CU-1	SAMSUNG	AM007TNVDCH/AA	WALL MOUNTED "WIND-FREE"	HP / HR	0.58	7,500	5,000	8,500	201.3/176.6/158.9	0	R410A	32.3 x 11.8 x 8.5	19.8	208-230/1/60	0.2	15.0	34/32/30/27	51	1/4"	1/2"	1-14
1F	132 ELECTRICAL	132	CU-1	SAMSUNG	AM005TNVDCH/AA	WALL MOUNTED "WIND-FREE"	HP / HR	0.41	5,000	3,400	5,800	173.0/158.9/144.8	0	R410A	32.3 x 11.8 x 8.5	19.8	208-230/1/60	0.2	15.0	31/30/27/26	50	1/4"	1/2"	1-14
1F	133 WOMEN'S LOCKER	133	CU-1	SAMSUNG	AM009MNMDCH/AA	DUCT-S	HP / HR	0.75	9,500	7,400	10,500	318 / 265 / 212	0.0 / 0.04 / 0.6	R410A	33-7/16 x 9-13/16 x 27-9/16	69.4	208-230/1/60	1.4	15.0	26 / 24 / 22	48	1/4"	1/2"	1-14
1F	134 MEN'S LOCKER	134	CU-1	SAMSUNG	AM015MNMDCH/AA	DUCT-S	HP / HR	1.25	15,000	11,400	17,000	388 / 353 / 318	0.0 / 0.04 / 0.6	R410A	33-7/16 x 9-13/16 x 27-9/16	69.4	208-230/1/60	1.4	15.0	28 / 26 / 24	50	1/4"	1/2"	1-14
1F	137 COMM ROOM	137A	CU-2	SAMSUNG	AM012NNNDCH/AA	4-WAY MINI CASSETTE (2x2) "WIND-FREE"	HP / HR	1.00	12,000	9,300	13,500	371 / 335 / 283	0	R410A	22-5/8 x 9-13/16 x 22-5/8	26.5	208-230/1/60	0.3	15.0	34 / 30 / 26	51	1/4"	1/2"	1-14
1F	137 COMM ROOM	137B	CU-2	SAMSUNG	AM012NNNDCH/AA	4-WAY MINI CASSETTE (2x2) "WIND-FREE"	HP / HR	1.00	12,000	9,300	13,500	371 / 335 / 283	0	R410A	22-5/8 x 9-13/16 x 22-5/8	26.5	208-230/1/60	0.3	15.0	34 / 30 / 26	51	1/4"	1/2"	1-14
1F	137 COMM ROOM	137C	CU-2	SAMSUNG	AM012NNNDCH/AA	4-WAY MINI CASSETTE (2x2) "WIND-FREE"	HP / HR	1.00	12,000	9,300	13,500	371 / 335 / 283	0	R410A	22-5/8 x 9-13/16 x 22-5/8	26.5	208-230/1/60	0.3	15.0	34 / 30 / 26	51	1/4"	1/2"	1-14
1F	137 COMM ROOM	137D	CU-2	SAMSUNG	AM012NNNDCH/AA	4-WAY MINI CASSETTE (2x2) "WIND-FREE"	HP / HR	1.00	12,000	9,300	13,500	371 / 335 / 283	0	R410A	22-5/8 x 9-13/16 x 22-5/8	26.5	208-230/1/60	0.3	15.0	34 / 30 / 26	51	1/4"	1/2"	1-14
1F	139 CONCESSIONS	139	CU-2	SAMSUNG	AM009NNNDCH/AA	4-WAY MINI CASSETTE (2x2) "WIND-FREE"	HP / HR	0.79	9,500	6,800	10,500	353 / 300 / 265	0	R410A	22-5/8 x 9-13/16 x 22-5/8	26.5	208-230/1/60	0.2	15.0	33 / 30 / 26	50	1/4"	1/2"	1-14
1F	138 CHAIR STOR	138	CU-2	SAMSUNG	AM006RNMDCH/AA	DUCT-S NEW	HP / HR	0.53	6,300	4,900	7,100	318 / 265 / 212	0.0 / 0.04 / 0.6	R410A	33-7/16 x 9-13/16 x 27-9/16	69.4	208-230/1/60	1.4	15.0	26 / 24 / 22	48	1/4"	1/2"	1-14
1F	135 STORAGE	135	CU-2	SAMSUNG	AM009MNMDCH/AA	DUCT-S	HP / HR	0.75	9,500	7,400	10,500	318 / 265 / 212	0.0 / 0.04 / 0.6	R410A	33-7/16 x 9-13/16 x 27-9/16	69.4	208-230/1/60	1.4	15.0	26 / 24 / 22	48	1/4"	1/2"	1-14
1F	113 CLASSROOM	113	CU-3	SAMSUNG	AM076FNHDCH/AA	HIGH STATIC PRESSURE DUCTED	HP / HR	6.50	76,800	58,000	85,200	2048 / 1836 / 1659	0.20 / 0.6 / 1.0	R410A	48.82 x 18.50 x 40.94	196.2	208-230/1/60	4.8	15.0	45 / 43 / 41	45	3/8"	3/4"	1-14
1F	106 DIRECTOR	106	CU-3	SAMSUNG	AM007NNNDCH/AA	4-WAY MINI CASSETTE (2x2) "WIND-FREE"	HP / HR	0.63	7,500	5,100	8,700	318 / 272 / 230	0	R410A	22-5/8 x 9-13/16 x 22-5/8	26.5	208-230/1/60	0.2	15.0	32 / 29 / 25	47	1/4"	1/2"	1-14
1F	101 RECEPTION	101	CU-3	SAMSUNG	AM009NNNDCH/AA	4-WAY MINI CASSETTE (2x2) "WIND-FREE"	HP / HR	0.79	9,500	6,800	10,500	353 / 300 / 265	0	R410A	22-5/8 x 9-13/16 x 22-5/8	26.5	208-230/1/60	0.2	15.0	33 / 30 / 26	50	1/4"	1/2"	1-14
1F	103 SHARED OFFICE	103	CU-3	SAMSUNG	AM007NNNDCH/AA	4-WAY MINI CASSETTE (2x2) "WIND-FREE"	HP / HR	0.63	7,500	5,100	8,700	318 / 272 / 230	0	R410A	22-5/8 x 9-13/16 x 22-5/8	26.5	208-230/1/60	0.2	15.0	32 / 29 / 25	47	1/4"	1/2"	1-14
1F	107 HALLWAY	107	CU-3	SAMSUNG	AM009MNMDCH/AA	DUCT-S	HP / HR	0.75	9,500	7,400	10,500	318 / 265 / 212	0.0 / 0.04 / 0.6	R410A	33-7/16 x 9-13/16 x 27-9/16	69.4	208-230/1/60	1.4	15.0	26 / 24 / 22	48	1/4"	1/2"	1-14
1F	100 LOBBY	100	CU-3	SAMSUNG	AM076FNHDCH/AA	HIGH STATIC PRESSURE DUCTED	HP / HR	6.50	76,800	58,000	85,200	2048 / 1836 / 1659	0.20 / 0.6 / 1.0	R410A	48.82 x 18.50 x 40.94	196.2	208-230/1/60	4.8	15.0	45 / 43 / 41	45	3/8"	3/4"	1-14
1F	108 MENS RESTROOM	108	CU-3	SAMSUNG	AM006RNMDCH/AA	DUCT-S NEW	HP / HR	0.53	6,300	4,900	7,100	318 / 265 / 212	0.0 / 0.04 / 0.6	R410A	33-7/16 x 9-13/16 x 27-9/16	69.4	208-230/1/60	1.4	15.0	26 / 24 / 22	48	1/4"	1/2"	1-14
1F	115 SNACK BAR	115	CU-3	SAMSUNG	AM009MNMDCH/AA	DUCT-S	HP / HR	0.75	9,500	7,400	10,500	318 / 265 / 212	0.0 / 0.04 / 0.6	R410A	33-7/16 x 9-13/16 x 27-9/16	69.4	208-230/1/60	1.4	15.0	26 / 24 / 22	48	1/4"	1/2"	1-14
1F	102 OFFICE HALLWAY	102	CU-3	SAMSUNG	AM006RNMDCH/AA	DUCT-S NEW	HP / HR	0.53	6,300	4,900	7,100	318 / 265 / 212	0.0 / 0.04 / 0.6	R410A	33-7/16 x 9-13/16 x 27-9/16	69.4	208-230/1/60	1.4	15.0	26 / 24 / 22	48	1/4"	1/2"	1-14

NOTES

1. BASIS OF DESIGN: SAMSUNG DVM-S-ECO (SINGLE PHASE AND THREE PHASE) HEAT RECOVERY SYSTEM (SIMULTANEOUS HEATING AND COOLING)
2. PROVIDE A (FULLY PROGRAMMABLE) ADVANCED WIRED CONTROLLER MN: MWR-WG00UN
3. INDOOR UNITS ARE SEPARATELY POWERED WITH 208-230/1/60
4. PROVIDE WITH Y-JOINT PIPING KITS. SEE FLOOR PLANS AND PIPING DIAGRAM FOR ADDITIONAL INFORMATION
5. PROVIDE REFRIGERANT ISOLATION VALVES JUST AFTER Y-BRANCH SERVING EACH FCU OR JUST AFTER MCU FEEDING THE ASSOCIATED FAN COIL. VALVES TO BE COMPATIBLE WITH R40A REFRIGERANT WORKING PRESSURE UP TO 700 PSI, FULL FLOW VALVE WITH 0 PRESSURE DROP, BI-DIRECTIONAL FLOW, SERVICE PORT AND BRAZED CONNECTION.
6. CONTRACTOR TO PROVIDE DAISY CHAIN CONTROL WIRING. WIRE SPECIFICATIONS ARE 2 WIRE, 16 AWG, NON-POLARITY, SHIELDED, STRANDED BETWEEN ALL SYSTEM COMPONENTS
7. TOGGLE DISCONNECTS PROVIDED BY DIVISION 16
8. PROVIDE A MINI 4-WAY CASSETTE FASCIA PANEL (WIND-FREE) MN: PC4SUFMUN
9. PROVIDE A CONDENSATE PUMP (MN: ASP-MO-UNIV 110-250) FOR ALL WALL MOUNTED FCU'S
10. PROVIDE SIZE AND QUANTITY OF MCU'S (MODE CHANGE UNITS) IN ACCORDANCE WITH THE ENGINEERING VRF PIPING PLANS AND DIAGRAMS
11. CONTRACTOR TO PROVIDE A FILTER RACK/FILTER OR A FILTER GRILLE FOR ALL DUCTED FCU'S
12. CONTRACTOR TO PROVIDE A SERVICE ACCESS PANELS FOR ALL FCU'S REQUIRING ACCESS IN HARD CEILINGS (RE: GYPSUM BOARD)
13. START-UP ASSISTANCE TO BE PROVIDED BY MANUFACUTRER
14. PROVIDE A 10-YEAR PARTS ONLY WARRANTY ON ENTIRE SYSTEM WITH PRODUCT REGISTRATION.

SPLIT SYSTEM HEAT RECOVERY UNIT WITH ELECTRIC HEAT SCHEDULE

MARK	NET COOLING CAPACITY TOTAL MBH	NET COOLING CAPACITY SENSIBLE MBH	HEATING CAPACITY	HEATING CAPACITY REHEAT MBH	SUPPLY CFM 75°F DB/50%RH	EXHAUST CFM 75°F DB/50%RH	OUTSIDE AIR 100°F DB/74°F WB	FAN DATA	FAN DATA EXT. SP		MANUFACTURER	MODEL	EER	REMARKS	VOLTS	MCA	BRKR
OAC-1 OAU-1	88.45	67.12	22.5 KW	44.0	1915	800	1915		1.25		AAON	V3-CRB-8-0-162C-5RS ABCE-PEJ-000-0A0-00A00UA-00-0BA0D0000	9.8	1,2,3,4,5,6,7,8,9	208/3/60 208/3/60	39 92	50/3 100/3
OAC-2 OAU-2	61.62	46.56	15.0 KW	41.0	1675	1850	1675		1.25		AAON	V3-CRB-8-0-161C-5RS ABCE-HEJ-000-0A0-00A0AFA-00-DCG0DB000	8.9	1,2,3,4,5,6,7,8	208/3/60 208/3/60	28 66	45/3 70/3

1. FILTER BOX-2" PLEATED-30% EFF.
2. VERTICAL AIRHANDLER
3. MAX. SOUND LEVEL=75DBA
4. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.
5. EXTERNAL STATIC PRESSURE DROP DOES NOT INCULDE COOLING COIL PRESSURE DROP.
6. EXPANSION VALVE, POLYMER ENERGY RECOVERY WHEEL, OUTSIDE AIR TEMPERATURE SENSOR/HUMIDITY SENSOR, SUPPLY AIR TEMP SENSOR, BUILDING PRESSURE SENSOR, PROOF OF AIR FLOW, SAFETY SHUT DOWN
7. REFRIGERANT=R410A OR PURON.
8. MODULATING GAS REHEAT, MAKE UP AIR CONTROLLER, ENERGY RECOVERY WHEEL ROTATION DETECTION, CRANKCASE HEATER, MODULATING SCR ELECTRIC HEAT
9. TWO CIRCUITS

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GEORGIA REGISTERED No. 015330 PROFESSIONAL ENGINEER ... T. PARIKH

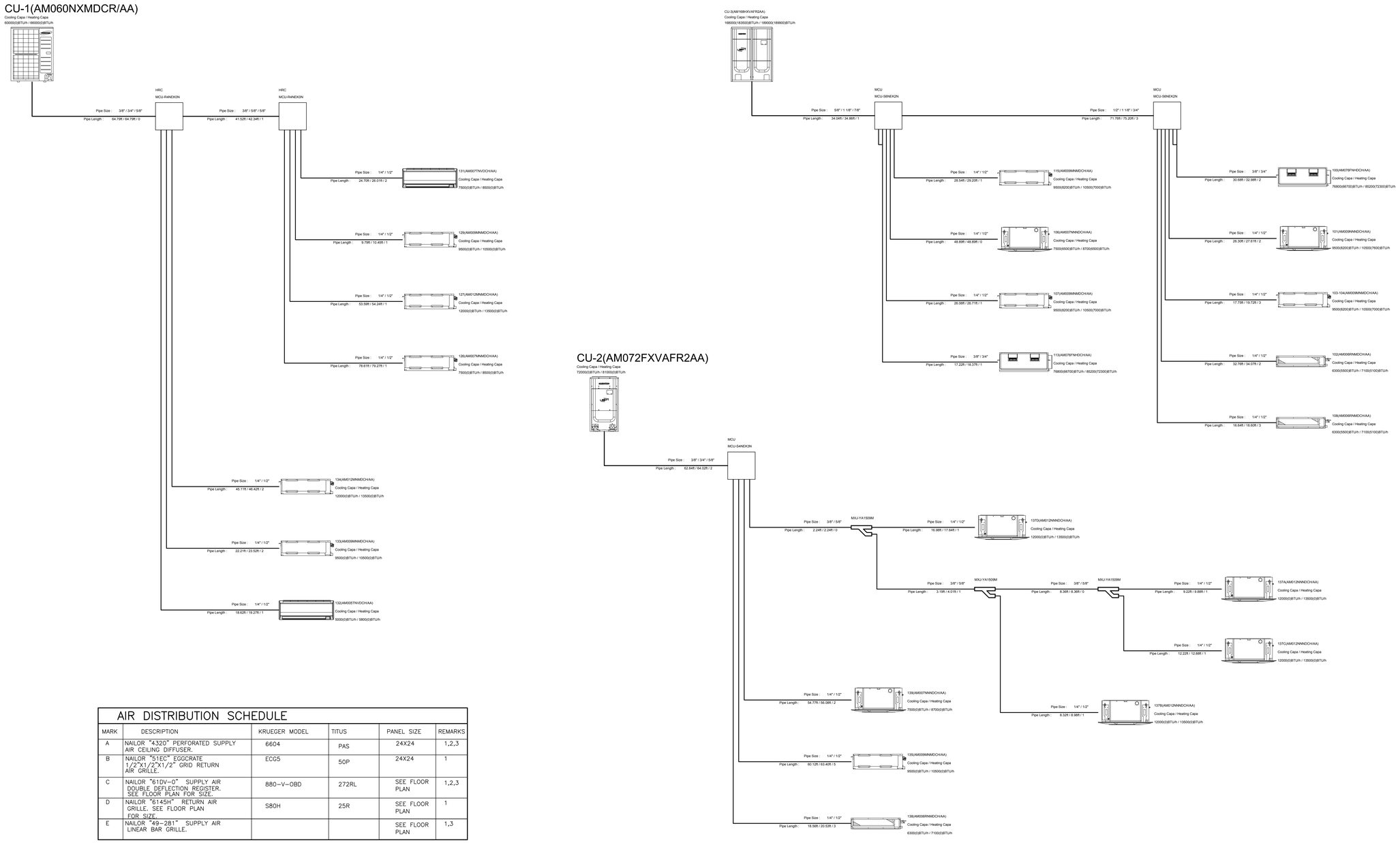
WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER
DALTON, GEORGIA

SHEET TITLE: EQUIPMENT SCHEDULE

PRINTED:

NUMBER: M-5

WHITFIELD COUNTY GYM PRINTED DATE: 09/16/20



AIR DISTRIBUTION SCHEDULE

MARK	DESCRIPTION	KRUEGER MODEL	TITUS	PANEL SIZE	REMARKS
A	NAILOR "4320" PERFORATED SUPPLY AIR CEILING DIFFUSER.	6604	PAS	24X24	1,2,3
B	NAILOR "51EC" EGGCRATE 1/2"X1/2"X1/2" GRID RETURN AIR GRILLE.	ECG5	50P	24X24	1
C	NAILOR "61DV-0" SUPPLY AIR DOUBLE DEFLECTION REGISTER. SEE FLOOR PLAN FOR SIZE.	880-V-OBD	272RL	SEE FLOOR PLAN	1,2,3
D	NAILOR "6145H" RETURN AIR GRILLE. SEE FLOOR PLAN FOR SIZE.	S80H	25R	SEE FLOOR PLAN	1
E	NAILOR "49-281" SUPPLY AIR LINEAR BAR GRILLE.			SEE FLOOR PLAN	1,3

1. STEEL. FINISH AND BORDER SHALL MATCH CEILING. SEE ARCHITECT DRAWING FOR THE TYPE OF CEILING.
2. MANUAL VOLUME DAMPER.
3. FACTORY INSULATED DIFFUSER AT UNCONDITIONED AREA OR NO RETURN AIR PLENUM.

PIPING DIAGRAMS

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DALTON, GEORGIA

SHEET TITLE: PIPING DIAGRAM

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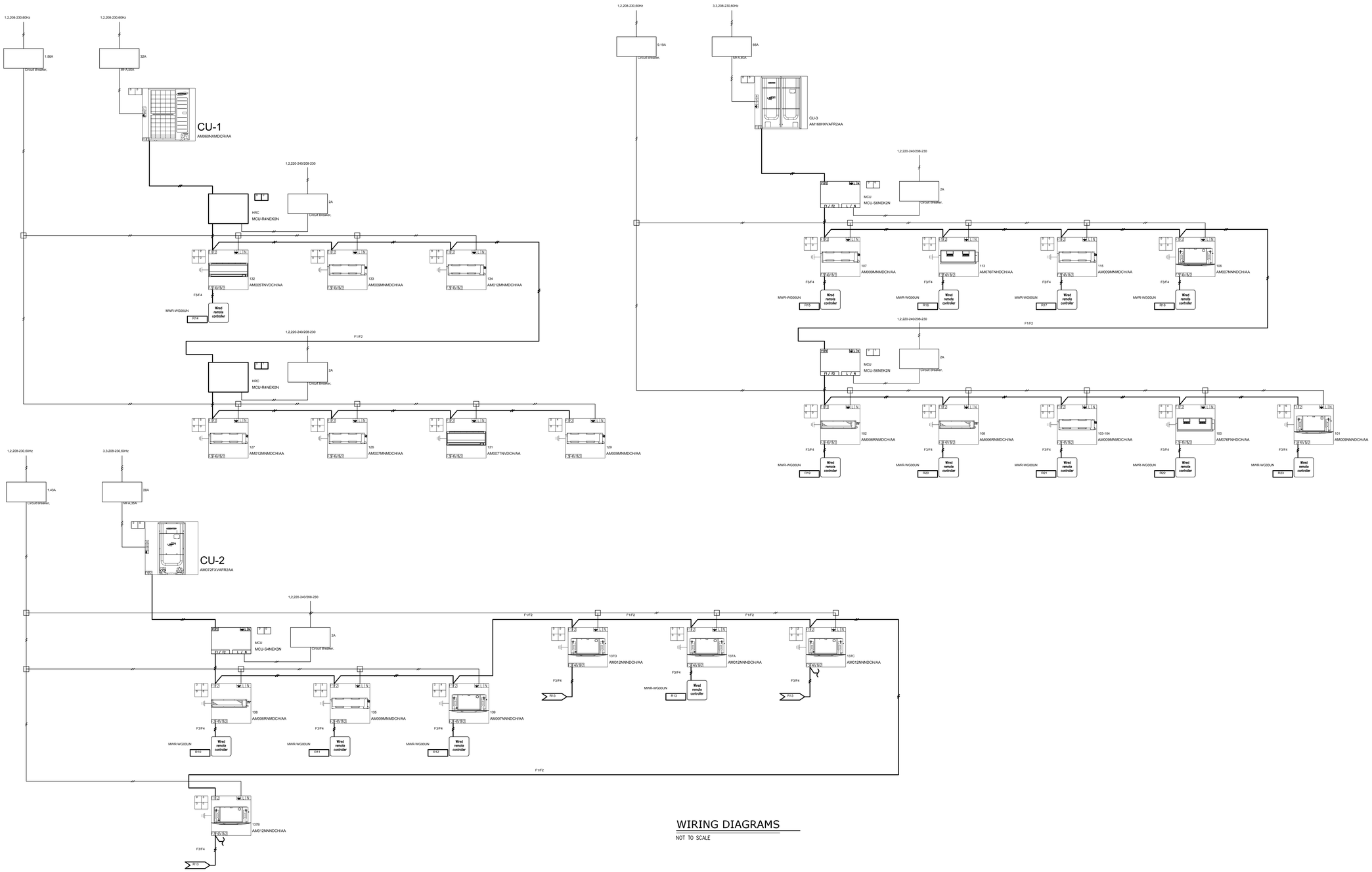

WIRING DIAGRAMS

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DALTON, GEORGIA

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WIRING DIAGRAM

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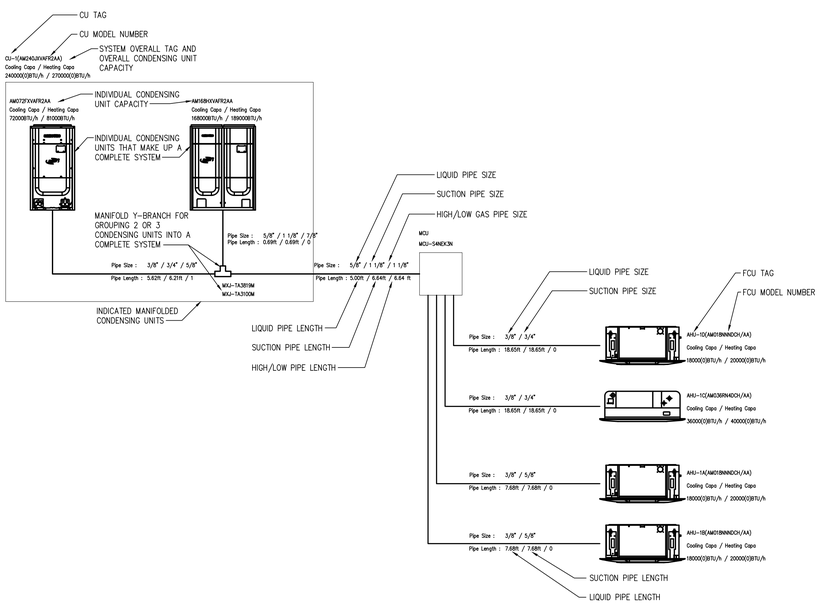

HEAT RECOVERY PIPING NOMENCLATURE/DIAGRAM

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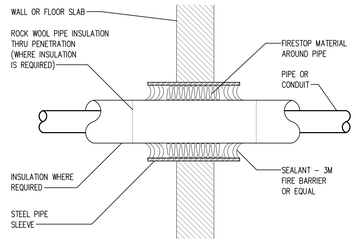

FIRE RATED WALL PENETRATION DETAIL

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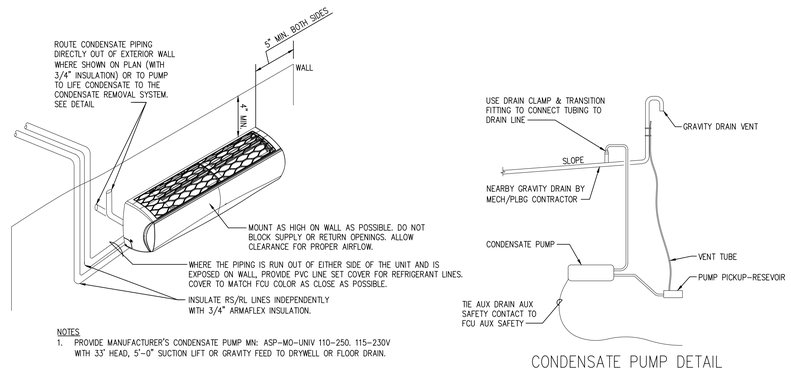


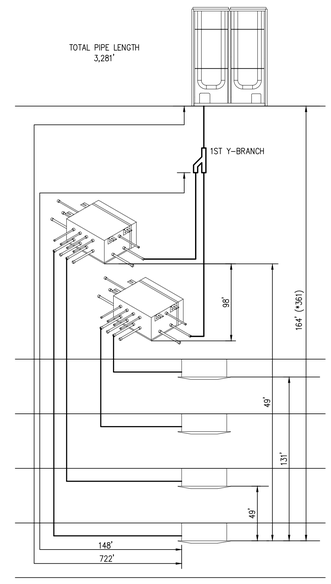
NOTES

1. PROVIDE MANUFACTURER'S CONDENSATE PUMP MN: ASP-MO-UNIV 110-250. 115-230V WITH 33' HEAD, 5'-0" SUCTION LIFT OR GRAVITY FEED TO DRYWELL OR FLOOR DRAIN.

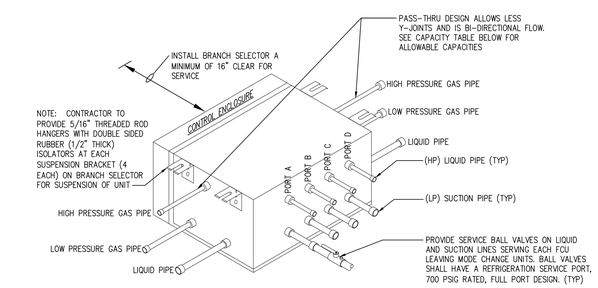
CONDENSATE PUMP DETAIL

INDOOR WALL MOUTED FCU DETAIL

NOT TO SCALE

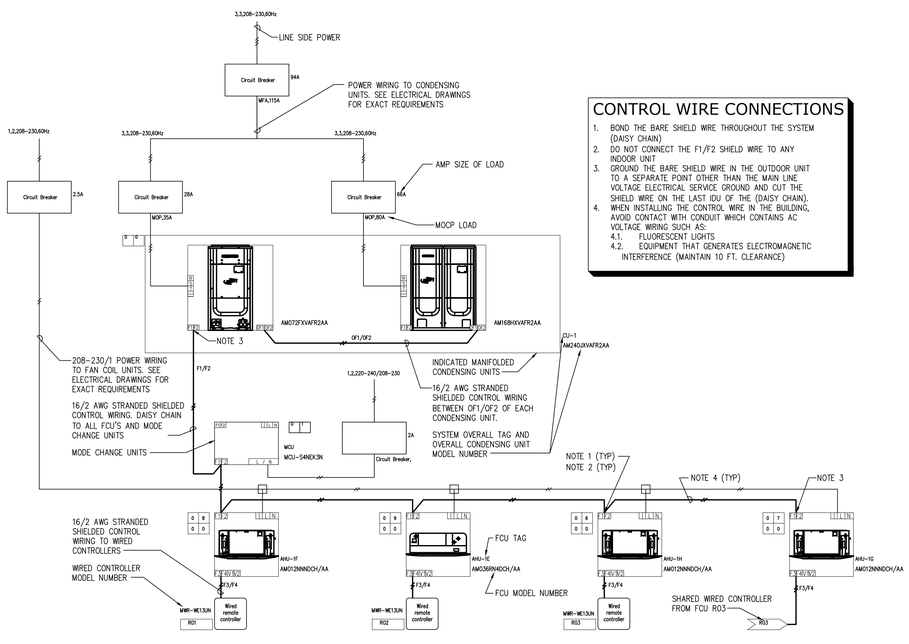


MCU'S IN SERIES



MCU CAPACITY TABLE
MCU-S1NEK1N = 1-PORT = 54,000 BTUH TOTAL (RIGHT SIDE CONNECTION ONLY)
MCU-S2NEK2N = 2-PORT = 54,000 BTUH EACH PORT, 108,000 BTUH TOTAL
MCU-S4NEK3N = 4-PORT = 54,000 BTUH EACH PORT, 216,000 BTUH TOTAL
MCU-S6NEK2N = 6-PORT = 54,000 BTUH EACH PORT, 216,000 BTUH TOTAL
MCU-S8NEK3N = 6-PORT = 19,000 BTUH EACH PORT, 76,000 BTUH TOTAL

NO CONDENSATE DRAIN REQUIRED
AUTO ADDRESSING CAPABILITY ON MULTI-PORT MCU'S
MBH CAPACITY IS NOT INCREASED WHEN PIPED SERIES, ONLY THE NUMBER OF PORTS



CONTROL WIRE CONNECTIONS

1. BOND THE BARE SHIELD WIRE THROUGHOUT THE SYSTEM (DAISY CHAIN)
2. DO NOT CONNECT THE F1/F2 SHIELD WIRE TO ANY INDOOR UNIT
3. GROUND THE BARE SHIELD WIRE IN THE OUTDOOR UNIT TO A SEPARATE POINT OTHER THAN THE MAIN LINE VOLTAGE ELECTRICAL SERVICE GROUND AND CUT THE SHIELD WIRE ON THE LAST IDU OF THE (DAISY CHAIN).
4. WHEN INSTALLING THE CONTROL WIRE IN THE BUILDING, AVOID CONTACT WITH CONDUIT WHICH CONTAINS AC VOLTAGE WIRING SUCH AS:
   4.1. FLUORESCENT LIGHTS
   4.2. EQUIPMENT THAT GENERATES ELECTROMAGNETIC INTERFERENCE (MAINTAIN 10 FT. CLEARANCE)

HEAT RECOVERY WIRING NOMENCLATURE/DIAGRAM

NOT TO SCALE

HEAT RECOVERY PIPING LIMITATIONS

CLASSIFICATION	PIPE	LENGTH (FEET)
MAX LENGTH	TOTAL PIPING LENGTH	3281'
	ODU-IDU (EQUIVALENT)	656' (722')
	ODU-ODU (EQUIVALENT)	33' (43')
	1ST BRANCH JOINT - FARTHEST IDU	148' / 295'
LEVEL DIFFERENCE	ODU-IDU (ODU IS HIGHEST POSITION)	164' / *361'
	OUD-IDU (IDU IS THE HIGHEST POSITION	131' / *361'
	IDU-IDU IN DIFFERENT MCU	131'
	IDU-IDU IN DIFFERENT MCU (WALL MOUNT FCU)	49'
	IDU-IDU OR IDU-MCU IN ONE MCU	49'
	MCU-MCU	98'
	MCU-MCU IN SERIES	16'
	ODU-ODU	0'

*PRESSURE DROP MODULATION KIT

HEAT RECOVERY PIPING LIMITATIONS

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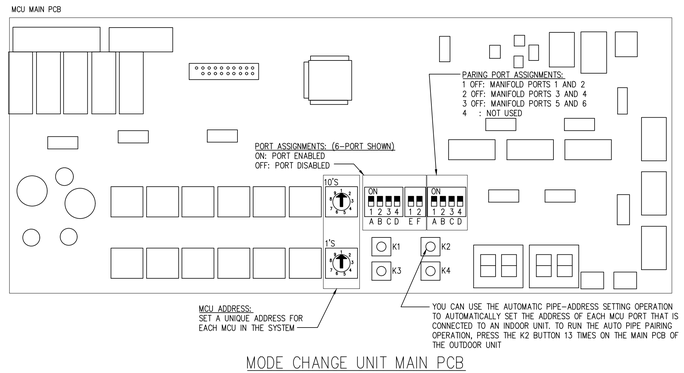

MODE CHANGE UNIT MAIN PCB

TYPICAL MODE CHANGE UNIT DETAIL

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WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER
DALTON, GEORGIA

SHEET TITLE: NOMENCLATURE OF VRF SYSTEM

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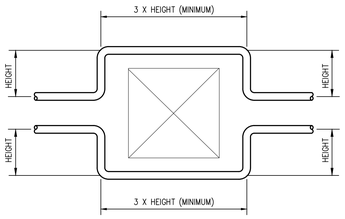


NOTES:
1. WHEN AN OBSTACLE, SUCH AS A BEAM OR CONCRETE STRUCTURE, IS IN THE PATH OF THE PLANNED REFRIGERANT PIPE RUN, IT IS BEST PRACTICE TO ROUTE THE PIPING OVER THE OBSTACLE OR UNDER.
2. IF ADEQUATE SPACE IS NOT AVAILABLE TO ROUTE THE INSULATED PIPE OVER THE OBSTACLE, THEN ROUTE THE PIPE UNDER THE OBSTACLE.
3. IN EITHER CASE, IT IS IMPERATIVE THE LENGTH OF THE HORIZONTAL SECTION OF PIPE ABOVE OR BELOW THE OBSTACLE BE A MINIMUM OF THREE (3) TIMES THE LONGEST VERTICAL RISE (OR FALL) AT EITHER END OF THE SEGMENT.

PIPING UNDER/OVER OBSTACLES DETAIL

NOT TO SCALE

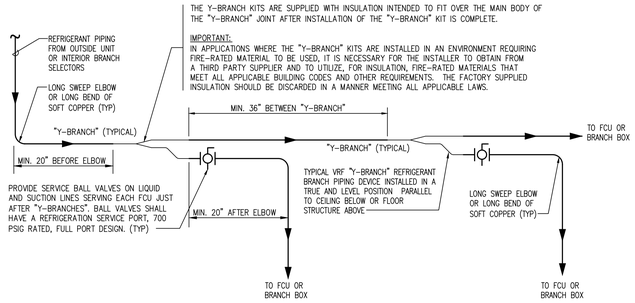
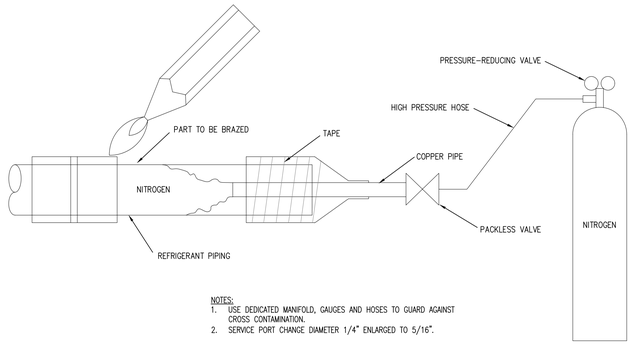


DIAGRAM - "Y-BRANCH" PIPING CLEARANCE REQUIREMENTS

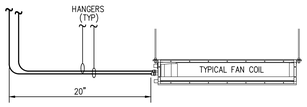
NOT TO SCALE (REFER TO MANUFACTURERS INSTRUCTIONS)



NOTES:
1. USE DEDICATED MANIFOLD, GAUGES AND HOSES TO GUARD AGAINST CROSS CONTAMINATION.
2. SERVICE PORT CHANGE DIAMETER 1/4" ENLARGED TO 5/16".

TYPICAL NITROGEN PURGING SET-UP

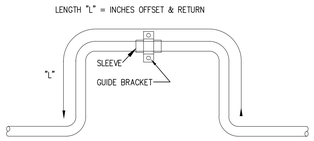
NOT TO SCALE



TYPICAL ALL FAN COIL UNITS

RECOMMENDED PIPE CLEARANCES FOR INDOOR UNITS

NOT TO SCALE (REFER TO MANUFACTURERS INSTRUCTIONS)



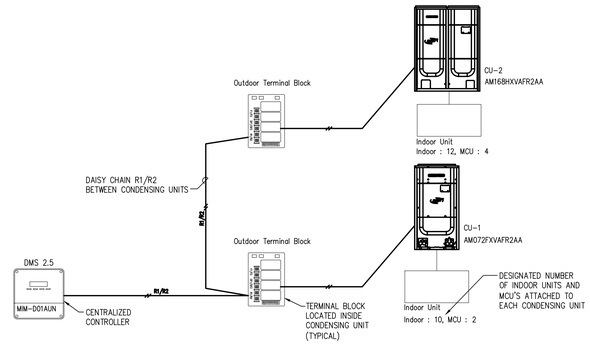
NOTE:
CALCULATION FOR EXPANSION AND CONTRACTION SHOULD BE BASED ON THE AVERAGE COEFFICIENT OF EXPANSION OF COPPER WHICH IS 0.00000094 INCH PER INCH PER DEGREE F, BETWEEN 70° F AND 212°F.

(EXAMPLE: EXPANSION OF A 100 DEGREE F RISE FOR EACH 100 FT. OF ANY SIZE IS 1.128 INCHES)

EXPANSION DIMENSION "L" FOR OFFSET & RETURN TO BE BASED ON THE EXPECTED EXPANSION INCHES PER DIMENSION OF PIPE

PLAN - EXPANSION LOOPS

NOT TO SCALE



CENTRALIZED CONTROL NOMENCLATURE/DIAGRAM

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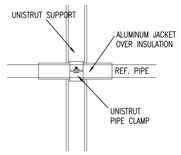

REFRIGERANT PIPE UNISTRUT SUPPORT

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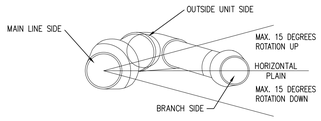
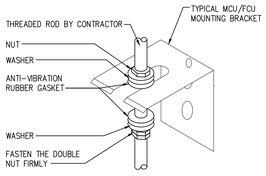


MAXIMUM ROTATION OF HORIZONTAL INSTALLED "Y-BRANCH"

NOT TO SCALE (REFER TO MANUFACTURERS INSTRUCTIONS)



TYPICAL ABOVE CEILING MOUNTING DETAIL

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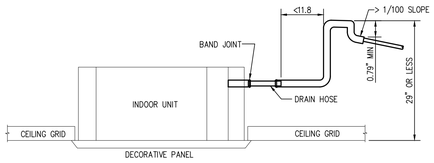

NOTES:
- CURRENT CEILING CASSETTE MODELS HAVE CONDENSATE LIFT PUMPS RATED FOR A MAXIMUM 29" OF LIFT FROM THE BOTTOM OF THE UNIT
- INSIDE DIAMETER OF THE CONDENSATE DRAIN OUTLET & RISER PIPING MUST NOT EXCEED 3/4" ID
- THE FLEXIBLE HOSE SHOULD BE INSTALLED LEVEL OR BENT DOWNWARD
- ALL CONDENSATE LINES MUST BE INSULATED THROUGHOUT THE BUILDING
- THE HORIZONTAL MAIN CONDENSATE LINES MUST BE PROPERLY SUPPORTED WITH HANGARS EVERY 40" TO 60".
- CONDENSATE PIPING INSTALLATION MUST BE IN ACCORDANCE WITH STATE AND LOCAL CODES

TYPICAL FOR 360, 4-WAY, 4-WAY MINI, AND 1-WAY CASSETTE FAN COIL UNITS

CONDENSATE PUMP DRAIN PIPING DETAIL

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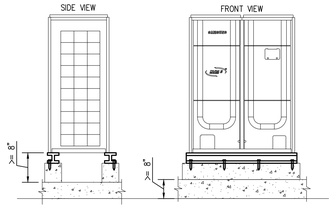

NOTES
- SUPPORT THE OUTDOOR UNIT ABOVE GRADE A MINIMUM OF 8 INCHES
- FRONT AND REAR FACE TO BE SUPPORTED FULL LENGTH OF CABINET
- EACH UNIT MUST BE SECURELY ANCHORED TO THE BASE SUPPORT: ROOF OR GROUND
- SUPPORT THE FULL WIDTH OF THE UNIT FRONT & REAR
  - (INDIVIDUAL UNIT WEIGHT 413-83 LB. DEPENDING ON MODEL)
- THE OUTDOOR UNITS MUST BE PROPERLY ANCHORED FOR STABILITY IN WINDY CONDITIONS
- AVOID LOCATIONS WHERE BUILDING EXHAUSTS ARE PRESENT
  - BATHROOM, KITCHEN, OXIDES, SULFUR, ETC.
- PLACE OUTDOOR UNITS WHERE SERVICE AND MAINTENANCE ACCESS IS MAINTAINED
- SUPPORT AS PER LOCAL CODES

CONDENSING UNIT MOUNTING DETAIL

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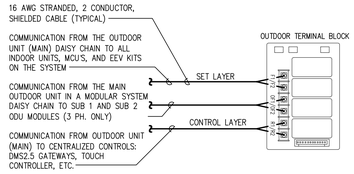
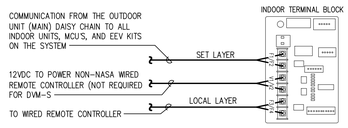


OUTDOOR UNIT TERMINAL BLOCK



INDOOR UNIT TERMINAL BLOCK

TERMINAL BLOCK WIRING DETAIL

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GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 015330 MICHAEL T. SMITH

WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER
DALTON, GEORGIA

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WHITFIELD COUNTY GYM PRINTED DATE: 09/16/20

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HVAC GENERAL NOTES

1. CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT ANY CONFLICTS OF WORK PRIOR TO PURCHASE OF EQUIPMENT OR COMMENCEMENT OF WORK. CONTRACTOR SHALL NOT FABRICATE ANY DUCTWORK WITHOUT COORDINATING WITH OTHER DISCIPLINES AND VERIFYING CLEARANCE FOR THE DUCTWORK.

2. NO EQUIPMENT SHALL BE VISIBLE FROM THE FRONT.

3. CHECK FLOOR JOIST FOR DUCT SPACING.

4. CONTRACTOR SHALL VISIT THE JOB SITE AND HAVE A GOOD WORKING KNOWLEDGE AND ACQUAINTANCE OF THE EXISTING JOB SITE AS WELL AS THE CONDITIONS OF THE JOB SITE AND INCLUDE A STATEMENT ON HIS BID THAT HE HAS DONE SO.

5. DEVIATIONS FROM MATERIAL, METHODS, AND PROCEDURES SET FORTH HEREIN MUST BE APPROVED IN WRITING WITH EQUIPMENT AND INSTALLATION SUBMITTALS.

6. CONTRACTOR SHALL REVIEW STRUCTURAL, ELECTRICAL, AND ARCHITECTURAL DRAWINGS BEFORE FABRICATING OR INSTALLING DUCTWORK OR EQUIPMENT TO AVOID ANY CONFLICTS.

7. FIRE DAMPERS SHALL BE RUSKIN MODEL D-IBD2 TYPB? WITH 1 ½ HR RATING. (VERIFY RATING BEFORE SPECIFYING).

8. REQUEST FOR PAYMENT FOR ADDITIONAL COST DUE TO SITE CONDITIONS WILL NOT BE ALLOWED.

9. ALL DUCT DIMENSIONS ARE INSIDE CLEAR

10. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED BY EVERY APPLICABLE JURISDICTION FOR THE PERFORMANCE OF THE WORK.

11. ALL WORK SHALL MEET THE LOCAL AND STATE, HEATING AND AIR-CONDITIONING, AND ENERGY CODES.

12. SHEET METAL DUCTWORK SHALL BE GALVANIZED STEEL SHEETS OF THICKNESS AS RECOMMENDED, CONSTRUCTED AND DETAILED IN THE LATEST SMACNA CONSTRUCTION STANDARDS. NO FIBERGLASS DUCTWORK SHALL BE USED.

13. ON DUCTWORK SIZES; FIRST DIMENSION GIVEN IS SIDE SHOWN.

14. DUCT TURNS MAY BE ROUND OR SQUARE. ROUND ELBOWS SHALL HAVE INSIDE RADIUS NOT LESS THAN DUCT WIDTH. SQUARE ELBOWS SHALL HAVE SINGLE THICKNESS WALL TURNING VANES.

15. SUPPLY, RETURN, AND OUTSIDE AIR INTAKE DUCTWORK SHALL BE INSULATED WITH 3 INCH THICK BLANKET, TYPE 75 WITH REINFORCED FOIL FACE VAPOR BARRIER, U. L. LISTED. (SEE STANDARD MECHANICAL AND ENERGY CODE). ANY AIR SUPPLYING EQUIPMENT (GRILLES, DIFFUSER, REGISTERS, AHU, AND OTHERS) LOCATED IN A NON-AIR-CONDITIONING AREA AND WHICH ARE SUBJECT TO FORM CONDENSATION ON THE SURFACE SHALL BE INSULATED. ALL SUPPLY AND RETURN DUCTS AND PLENUM SHALL BE INSULATED WITH A MINIMUM OF R-5 INSULATION WHEN LOCATED IN UNCONDITIONED SPACES AND WITH A MINIMUM OF R-8 INSULATION WHEN LOCATED OUTSIDE THE BUILDING (E.G. ATTIC).

16. CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE ORDERING.

17. SYSTEM SHALL BE AIR BALANCED.

18. FLEX DUCT SHALL NOT EXCEED 8'-0" IN LENGTH. FINAL 4'-0",(INCLUDING THE ELBOW AT THE DIFFUSER), TO DIFFUSER SHALL BE GALVANIZED DUCT. FLEX DUCT SHALL BE USED ONLY ON LAY-IN CEILING.

19. ALL ROUND DUCT SHALL BE PROPERLY WRAPPED, TAPED AND SUPPORTED SO AS TO REDUCE NOISE AND VIBRATION.

20. PROVIDE OPERATIONS AND MAINTENANCE MANUALS FOR ALL EQUIPMENT.

21. ALL LOW VOLTAGE (24 VOLTS AND BELOW) CONTROL AND INTERLOCK WIRING IS INCLUDED IN THIS DIVISION.

22. SMOKE DETECTORS SHALL BE PROVIDED AT ALL EQUIPMENT SUPPLYING OR EXHAUSTING GREATER THAN 2000 CFM OR SERVING MEANS OF EGRESS (CORRIDOR)IN THE RETURN DUCT (CORRIDOR) PRIOR TO OUTDOOR AIR CONNECTIONS AND SUPPLY AIR DUCT (Ga. Amendments).
    a. SMOKE DETECTORS ARE NOT REQUIRED IN THE RETURN/SUPPLY AIR SYSTEM WHERE CONNECTION ACCORDING TO NFPA-90A, MECHANICAL CODE SECTION606, AND LOCAL CODES. AIR SYSTEM WHERE ALL PORTIONS OF THE BUILDING SERVED BY THE AIR DISTRIBUTION SYSTEM ARE PROTECTED BY AREA SMOKE DETECTORS CONNECTED TO A FIRE ALARM SYSTEM IN ACCORDANCE WITH THE INTERNATIONAL FIRE CODE.

23. THE SMOKE DETECTOR ACTIVATION SHALL CAUSE A VISUAL AND AN AUDIBLE SIGNAL IN A NORMALLY OCCUPIED AREA, AND SMOKE DETECTOR TROUBLE CONDITIONS SHALL BE INDICATED VISUALLY OR AUDIBLY IN A NORMALLY OCCUPIED AREA AND SHALL BE IDENTIFIED AS AIR DUCT DETECTOR TROUBLE. (COORDINATE WITH FIRE ALARM CONTRACTOR). CONTRACTOR SHALL PROVIDE AND INSTALL SMOKE DETECTORS UNLESS OTHERWISE NOTED. COORDINATE WITH ELECTRICAL AND FIRE ALARM CONTRACTOR FOR THE TYPE OF SMOKE DETECTOR.

24. EACH AIR DISTRIBUTION SYSTEM SHALL BE PROVIDED WITH NOT LESS THAN ONE MANUALLY OPERABLE MEANS TO STOP THE OPERATION OF SUPPLY, RETURN, AND EXHAUST FANS IN AN EMERGENCY. THE MEANS OF MANUAL OPERATION SHALL BE LOCATED AT AN APPROVED LOCATION.

25. RUN MIN. 3/4" OR FULL SIZE OF UNIT CONNECTION CONDENSATE DRAIN FROM UNIT TO THE APPROVED PLACE OF DISPOSAL AS PER MECHANICAL CODE SECTION 307.2. PROVIDE CONDENSATE DRAIN PUMP IF NECESSARY.

26. AIR-CONDITIONING UNITS SHALL HAVE FACTORY INSTALLED VIBRATION (INTERNAL) ISOLATORS.

27. DIFFUSERS ARE TO BE CONNECTED TO DUCTWORK WITH SPIN-IN FITTING EXTRACTOR AND MANUAL VOLUME DAMPER. EXACT LOCATION OF ALL DIFFUSERS TO BE COORDINATED WITH LIGHTING LAYOUT AND REFLECTED CEILING PLAN.

28. AIRFOIL SHAPED SPLITTER DAMPER IS REQUIRED AT EACH DUCT SPLIT WHERE ANY DUCT DIMENSION EXCEEDS 8". PROVIDE LOCKING QUADRANT.

29. ADJUSTABLE, MULTI-BLADE EXTRACTOR SHALL BE REQUIRED AT EACH BRANCH DUCT TAKEOFF WHERE NO OTHER PROVISION HAS BEEN MADE TO DIVERT THE AIR.

30. CONTRACTOR SHALL COORDINATE WITH OTHER DISCIPLINES AND CHECK CLEARANCES TO PREVENT ANY CONFLICTS.

31. PROVIDE REGISTERS AND GRILLES THAT MATCH MOUNTING SURFACE FINISHES AS APPROVED BY THE ARCHITECT.

32. COORDINATE GRILLE AND DIFFUSER LOCATIONS WITH REFLECTED CEILING PLAN.

33. FLEXIBLE DUCT SHALL BE THERMAFLEX M-KC. (SEE LOCAL AND STANDARD MECHANICAL CODE).

34. MOUNT ALL THERMOSTATS AT 4'-6" AFF.(TOP)

35. PROVIDE LOCKING COVER FOR EACH THERMOSTATS.

36. BRANCH DUCT FROM MAIN TO THE DIFFUSER SHALL BE SAME SIZE OF DIFFUSER NECK CONNECTION UNLESS OTHERWISE NOTED.

37. ALL CONDENSING UNITS SHALL BE MOUNTED ON 4" HIGH CONCRETE PAD AND PROVIDE CLEARANCE AROUND AND THE UNITS AS RECOMMENDED BY THE MANUFACTURER.

38. CONTRACTOR SHALL PREPARE COMPLETE ISOMETRIC DRAWINGS OF REFRIGERANT PIPING AND SHALL BE APPROVED BY THE MANUFACTURER. CONTRACTOR SHALL SUBMIT MANUFACTURER APPROVED DRAWINGS TO THE ARCHITECT WITH MANUFACTURER LETTER STATING THAT REFRIGERANT PIPING IS IN ACCORDANCE WITH FACTORY RECOMMENDATIONS AND WILL NOT HARM EQUIPMENT.

39. PROVIDE AUXILIARY DRAIN PAN UNDER THE UNIT AS REQUIRED BY LOCAL AND STANDARD MECHANICAL CODE SECTION 307.
    a. AN AUXILIARY DRAIN PAN WITHOUT A SEPARATE DRAIN LINE SHALL BE PROVIDED UNDER THE COILS ON WHICH CONDENSATE WILL OCCUR. SUCH PAN SHALL BE EQUIPPED WITH A WATER LEVEL DETECTION DEVICE THAT WILL SHUT-OFF THE EQUIPMENT SERVED PRIOR TO OVERFLOW OF THE PAN.
    b. AN AUXILIARY DRAIN PAN WITH A SEPARATE DRAIN SHALL BE PROVIDED UNDER THE COILS ON WHICH CONDENSATION WILL OCCUR. THE AUXILIARY PAN DRAIN SHALL DISCHARGE TO A CONSPICUOUS POINT OF DISPOSAL TO ALERT OCCUPANTS IN THE EVENT OF A STOPPAGE OF THE PRIMARY DRAIN. THE PAN SHALL HAVE A MINIMUM DEPTH OF 1.5 INCHES, SHALL NOT BE LESS THAN 3 INCHES LARGER THAN THE UNIT OR THE COIL DIMENSIONS IN WIDTH AND LENGTH AND SHALL BE CONSTRUCTED OF CORROSION-RESISTANT MATERIAL. METALLIC PANS SHALL HAVE A MINIMUM THICKNESS OF NOT LESS THAN 0.0276 INCH GALVANIZED SHEET METAL. NON-METALLIC PANS SHALL HAVE A MINIMUM THICKNESS OF NOT LESS THAN 0.0625 INCH.
    c. A SEPARATE OVERFLOW DRAIN LINE SHALL BE CONNECTED TO THE DRAIN PAN PROVIDED WITH THE EQUIPMENT. SUCH OVERFLOW DRAIN SHALL DISCHARGE TO A CONSPICUOUS POINT OF DISPOSAL TO ALERT OCCUPANTS IN THE EVENT OF A STOPPAGE OF THE PRIMARY DRAIN. THE OVERFLOW DRAIN LINE CONNECT TO THE DRAIN PAN AT A HIGHER LEVEL THAN THE PRIMARY DRAIN CONNECTION.

40. CONTRACTOR SHALL VERIFY DUCT PENETRATION THROUGH FIRE RATED WALL WITH ARCHITECTURAL FLOOR PLAN AND INCLUDE IN HIS BID ANY MISSING FIRE DAMPER AND ACCESS PANEL.

41. AIR SHALL BE BALANCED BY A CERTIFIED INDEPENDENT BALANCING CONTRACTOR NOT AFFILIATED WITH TENANT'S MECHANICAL CONTRACTOR. CONTRACTOR SHALL PROVIDE SIX COPIES OF CERTIFIED BALANCING REPORT TO THE OWNER.

42. FRESH AIR INTAKES SHALL NOT BE TAKEN FROM A LOCATION CLOSER THAN 10'-0" FROM ANY SANITARY SEWER VENT OUTLET OR FLUE OR ANY EXHAUST AIR OUTLET, UNLESS SUCH OUTLET IS NOT LESS THAN 24 INCH ABOVE THE FRESH AIR INLET AND SHALL COMPLY LOCAL AND STANDARD MECHANICAL CODE.

43. CONTRACTOR SHALL EXTEND THE CONDENSATE DRAIN FROM THE UNIT TO THE NEAREST DRAIN.

44. DRAWINGS INDICATE LOCATIONS OF FIXTURES, APPARATUS, DUCTWORK AND PIPING; AND WHILE THESE ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE, IF IT IS NECESSARY TO CHANGE THE LOCATION OF SAME TO ACCOMMODATE BUILDING CONDITIONS, MAKE CHANGES WITHOUT ADDITIONAL COST TO THE OWNER AND AS APPROVED BY THE ARCHITECT.

45. PROVIDE ACCESS TO EQUIPMENT AND APPARATUS REQUIRING OPERATION SERVICE OR MAINTENANCE WITHIN THE LIFE OF THE SYSTEM.

46. DO NOT RUN PIPING OR DUCTWORK OR LOCATE EQUIPMENT (WITH RESPECT TO SWITCHBOARDS, PANEL BOARDS, POWER PANELS, MOTOR CONTROL CENTERS OR DRY TYPE TRANSFORMERS WITHIN 42" IN FRONT OF EQUIPMENT, OVER EQUIPMENT, OR WITHIN 36" HORIZONTALLY OF SAME SPACE.

47. ALL MATERIALS AND EQUIPMENT SHALL FIT THE SPACE AVAILABLE, WITH MANUFACTURER'S RECOMMENDED CLEARANCE FOR ACCESS.

48. SCHEDULED FAN STATIC PRESSURES ARE ESTIMATED. PROVIDE AND ADJUST DRIVES TO DELIVER SCHEDULED AIR QUANTITIES AGAINST ACTUAL SYSTEM RESISTANCE. CONTRACTOR SHALL MAKE CHANGES TO SHEAVES, BELTS, VALVES, AND DAMPERS OR PROVIDE ADDITIONAL DAMPERS REQUIRED TO PROVIDE AIR QUANTITIES SHOWN ON THE DRAWINGS.

49. PROVIDE LABELS FOR EACH EQUIPMENT. LABELS TO BE ENGRAVED LAMINATED BAKELITE NAMEPLATES WITH 1/4" HIGH WHITE CUT LETTERS; SECURE TO EQUIPMENT.

50. DIMENSIONS, CONNECTIONS, AND INSTALLATION DETAILS OF EQUIPMENT SUPPLIED BY SEVERAL ACCEPTABLE MANUFACTURERS MAY VARY. CONTRACTOR SHALL BE FULLY RESPONSIBLE OF COMPLIANCE WITH REQUIREMENTS OF PLANS AND SPECIFICATION FOR ANY SUBSTITUTE EQUIPMENT.

51. BLADES OF FIRE DAMPERS SHALL BE OUT OF AIR STREAM.

52. CONTRACTOR SHALL NOT FABRICATE ANY DUCT WORK WITHOUT COORDINATING WITH OTHER DISCIPLINE AND VERIFYING THE CLEARANCE ABOVE THE CEILING.

53. DUCT OR PIPE PENETRATING A FIRE RATED WALL OR FLOOR SHALL BE SEALED WITH THE FIRESTOP SEALANT.

54. ACCEPTABLE MANUFACTURERS: SAMSUNG, PANASONIC, LG, HITACHI, CARRIER, MITSUBISHI, AAON, TRANE, LENNOX, YORK, TITUS, KRUEGER, PENN, ACME, COOK.

55. CONTRACTOR SHALL SUBMIT EQUIPMENT DATA FOR APPROVAL.

56. START-UP OF MECHANICAL SYSTEMS SHOULD INCLUDE TEMPORARY FILTERS TO ELIMINATE CONSTRUCTION DUST AND DEBRIS, AND A SYSTEM FLUSHING WITH MAXIMUM OUTSIDE AIR INTAKE FOR AN EXTENDED PERIOD TO DISSIPATE CHEMICALS DISCHARGED FROM BUILDING MATERIALS AND PRODUCTS. INSTALL PERMANENT FILTERS PRIOR TO BUILDING OCCUPANCY BY OWNER. PROVIDE INSTALLATION AND START-UP CERTIFICATION FROM MAJOR EQUIPMENT MANUFACTURERS.

57. BACK SIDE OF (NON-AIR-CONDITIONING SIDE) SUPPLY DIFFUSER INCLUDING FLANGE SITTING ON METAL CEILING GRID SHALL BE INSULATED TO PREVENT CONDENSATION. INSULATION SHALL BE ADHERE TO DIFFUSER TO PREVENT ANY AIR MOVEMENT BETWEEN DIFFUSER AND INSULATION. INSULATION IS NOT REQUIRED IF CEILING IS USED AS A RETURN AIR PLENUM.

58. THIS CONTRACTOR SHALL GIVE ALL ELECTRICAL INFORMATION (INCLUDING VOLTAGES, AMPS, PHASE) PERTAINING TO MECHANICAL EQUIPMENT TO ELECTRICAL CONTRACTOR BEFORE FINAL CONTRACT SO THAT ELECTRICAL CONTRACTOR INCLUDES IN HIS CONTRACT. CONTRACTOR SHALL GET APPROVAL FROM ELECTRICAL CONTRACTOR BEFORE ORDERING EQUIPMENT.

59. BRANCH ROUND DUCTWORK TAPS LOCATED ABOVE THE ACCESSIBLE CEILING AND SERVING ONLY ONE DIFFUSER SHALL HAVE SPIN-IN DAMPER AND SCOOP WHETHER IT IS SHOWN ON DRAWINGS OR NOT..

60. MANUAL VOLUME DAMPER AT THE SPIN-IN FITTING OF BRANCH ROUND DUCT LOCATED ABOVE THE INACCESSIBLE CEILING SHALL BE OMITTED. PROVIDE MEANS OF AIR BALANCE.

61. MOUNTING FRAME OF CEILING MOUNTED AIR DISTRIBUTION DEVICES SHALL BE COMPATIBLE WITH CEILING TYPE.

62. FLEXIBLE DUCT RUN-OUTS TO DIFFUSERS SHALL BE INSTALLED FREE OF KINKS AND SAGS.

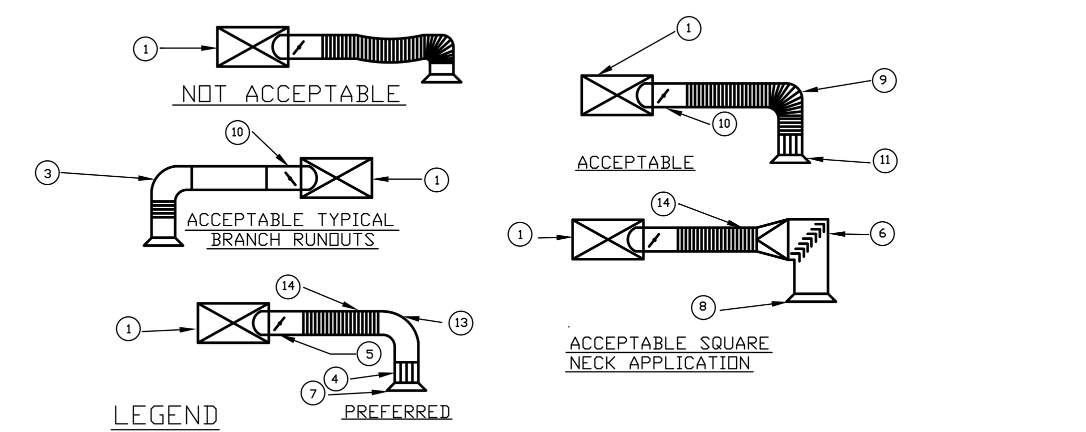
63. PORTION OF DUCTWORK OR PIPING VISIBLE THROUGH GRILLES AND REGISTERS IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.

64. PROVIDE MANUAL VOLUME DAMPER IN OUTSIDE AIR INTAKE DUCT AT RETURN AIR DUCT CONNECTION AND IN RETURN AIR DUCT TO BALANCE OUTSIDE AIR AND RETURN AIR REGARDLESS WHETHER IT IS SHOWN ON PLANS OR NOT.

65. CONTRACTOR SHALL NOT PURCHASE ANY EQUIPMENT WITHOUT WRITTEN APPROVAL OF MECHANICAL, ELECTRICAL, AND STRUCTURAL ENGINEER. ARCHITECT AND ENGINEER MAY NOT HAVE CO-ORDINATED FINAL EQUIPMENT DATA.

66. AIR SHALL NOT BE EXHAUSTED INTO AN ATTIC AS PER INTERNATIONAL MECHANICAL CODE SECTION 501.2.

67. ALL VRF SYSTEM SHALL COMPLY WITH ASHRAE STANDARD 15 SAFETY STANDARD FOR REFRIGERATION SYSTEMS, REQUIREMENTS FOR VRF SYSTEM.RCL VALUE-26# OF REFRIGERANT PER 1000 CU. FT.)



LEGEND

1 TRUNK DUCT
2 FLEXIBLE DUCT
3 FULL RADIUS ELBOW
4 STRAIGHTENING VANES TO ADJUST AIR EVENLY OVER DIFFUSER
5 SPIN IN CONN. W/SCOOP AND DAMPER. DO ALL ROUGH BALANCING AT THIS DAMPER. (TYPICAL)
6 SQUARE ELBOW WITH TURNING VANES. DISTRIBUTION VANES IN DIFFUSER NOT REQUIRED.
7 ROUND NECK DIFFUSER WITH VOLUME DAMPER FOR FINISH BALANCING ONLY.
8 SQUARE NECK DIFFUSER WITH VOLUME DAMPER FOR FINISH BALANCING ONLY.
9 DUCT SUPPORTED TO PROVIDE EQUIVALENT OF FULL RADIUS ELBOW. SUBMIT DETAILS.
10 SPIN IN WITH DEFLECTOR AND DAMPER .
11 VANES AND DIFFUSER AS BELOW.
12 ROUND DUCT.
13 FULL RADIUS SHEET METAL ELBOW.
14 FLEXIBLE DUCT. SUPPORT TO PREVENT SAG.

TYPICAL FLEXIBLE DUCT CONNECTIONS
NO SCALE

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WHITFIELD COUNTY GYM PRINTED DATE: 09/16/20

Sep 16 2020 | C:\2020-020whitfield gym\2020-02M10.dwg

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SEAL
GEORGIA REGISTERED No. 015330 PROFESSIONAL ENGINEER ... T. PARIKH

WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER
DALTON, GEORGIA

SHEET TITLE: HVAC GENERAL NOTES

PRINTED:

NUMBER: M-10

LEGEND

ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT
MOUNTING HEIGHT FROM THE CENTER OF ITEM

FIRE ALARM SYSTEM

F	MANUAL PULL STATION, 4'-0" AFF
F	COMBINATION ALARM HORN/STROBE, 6'-8" AFF
	CEILING MOUNTED SYSTEM SMOKE DETECTOR
STD	DUCT SMOKE DETECTOR
F	STROBE ALARM, 6'-8" AFF
FACP	FIRE ALARM CONTROL PANEL, TOP AT 6'-6" AFF
ANN	FIRE ALARM ANNUNCIATOR, FLUSH, 5'-0" AFF

POWER/MOTORS

	MOTOR
30/3/20	DISCONNECT SWITCH, AMPS/POLES/FUSE
	PANELBOARD

SIGNAL COMMUNICATIONS

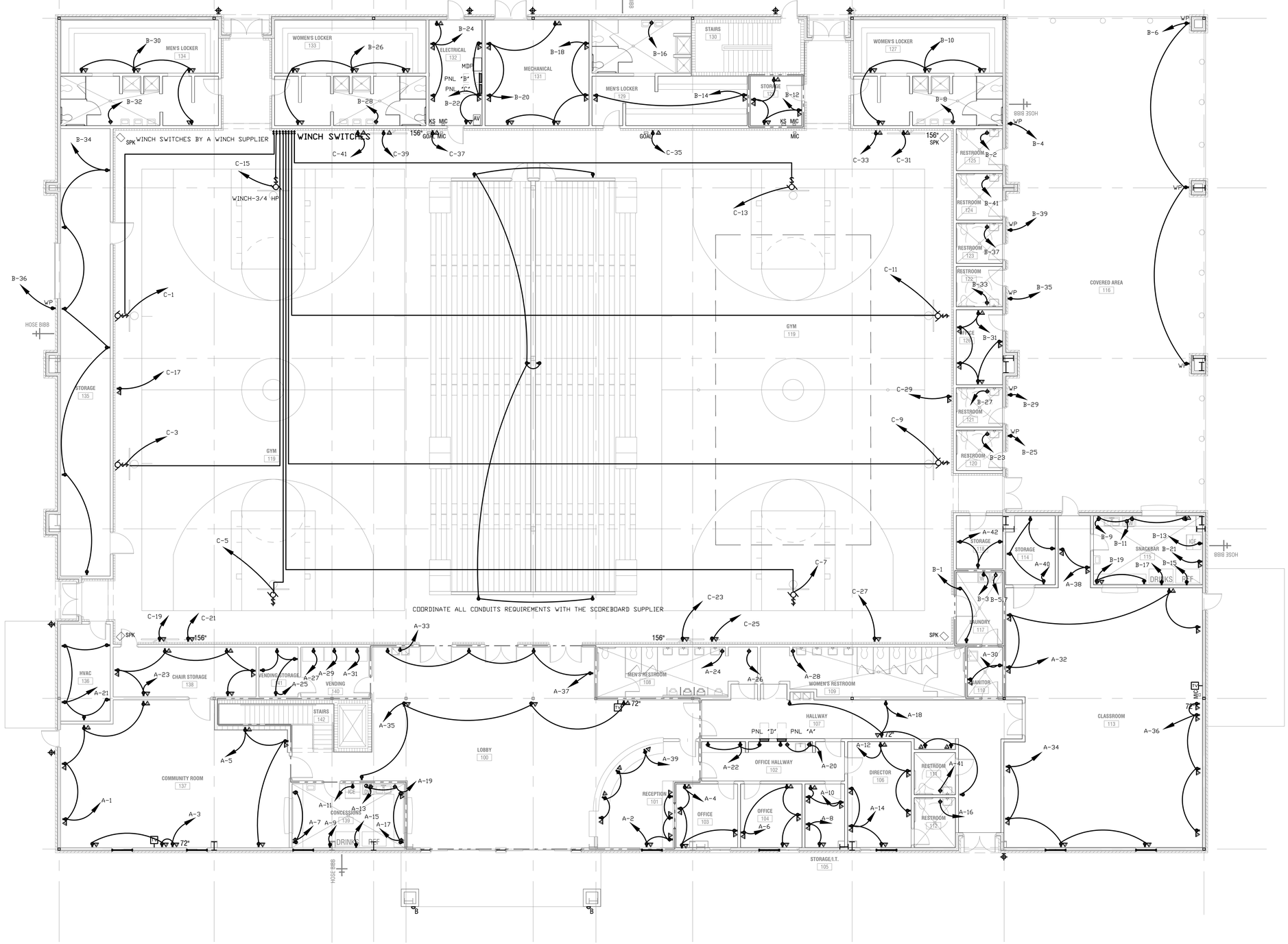
	TELEPHONE OUTLET 18" AFF, RUN 3/4" CONDUIT WITH PULL STRING 0'-6" ABOVE CEILING AND/OR INSULATION.
	TELEPHONE/DATA OUTLET 18" AFF, RUN 3/4" CONDUIT WITH PULL STRING 0'-6" ABOVE CEILING AND/OR INSULATION.
TV	TELEVISION OUTLET, STUB 1"CONDUIT, WITH PULL STRING FROM RECESSED JUNCTION BOX 0-6' ABOVE CEILING AND/OR INSULATION
	TELEPHONE OUTLET FLUSH IN FLOOR

WIRING

$	SINGLE POLE SWITCH, 3'6" AFF
$3	SUBSCRIPT INDICATES NUMBER OF POLES FOR SWITCH 3 FOR 3 WAY, 4 FOR 4 WAY, M FOR MOTOR CONTROLLER
	CONDUIT IN WALL OR ABOVE CEILING
	CONDUIT IN FLOOR SLAB OR UNDER GROUND
	EXPOSED CONDUIT
	HOME RUN, 2#12 AND 1#12 GROUND COPPER THHN 1/2"C OR AS NOTED.
	– GROUND – NEUTRAL – PHASE
J / H	JUNCTION BOX, CEILING WALL
T	THERMOSTAT
$L	LEVITON OSSMT WALL OCCUPANCY LIGHT SWITCH

RECEPTACLES/WIRING DEVICES

	DUPLEX OUTLET, 20A, 125V, HUBBELL #BR20C1WHI* OR EQUAL (MOUNT 18" A.F.F.)-HALF CONTROL
NC	DUPLEX OUTLET, 20A, 125V, HUBBELL #CBR20* OR EQUAL (MOUNT 18" A.F.F.)
	DUPLEX OUTLETMOUNTED ABOVE COUNTER (COORDINATE W/CABINET WORK)
	DUPLEX OUTLET IN FLOOR PLUS CARPET RING FOR CARPET
	DUPLEX OUTLET W/G.F.I., HUBBELL #GF5352*A OR EQUAL (MOUNT 18" AFF)
*	DUPLEX OUTLET W/G.F.I. MOUNTED ABOVE COUNTER



FIRST FLOOR PLAN-POWER

1/8"=1'-0"

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WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER

DALTON, GEORGIA

SHEET TITLE: FIRST FLOOR PLAN -POWER LEGEND

PRINTED:

NUMBER: E-1

WHITFIELD COUNTY GYM PRINTED DATE: 09/16/20

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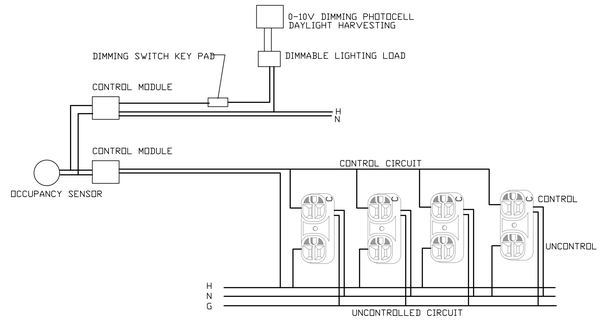
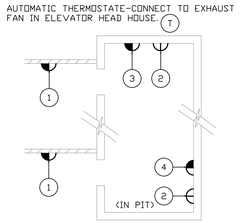
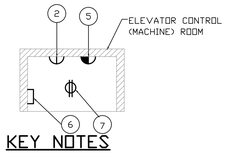


LIGHTING AND RECEPTACLES CONTROL

NO SCALE

OPTIONAL: WIRELESS OCCUPANCY SENSOR AND DAYLIGHT HARVESTING PHOTOCELL





GENERAL NOTES

A. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE SEALED WITH A LISTED FIRE SEALING ASSEMBLY.

B. ALL FIRE ALARM DEVICES SHOWN SHALL BE PART OF THE BUILDING FIRE ALARM SYSTEM.

KEY NOTES

1. LOBBY PHOTO ELECTRIC SMOKE DETECTOR WITH AUXILIARY FORM "C" CONTACTS. 2#14 WIRES IN «"C TO ELEVATOR CONTROL PANEL FOR ELEVATOR RECALL.

2. HEAT DETECTOR WITH 120VOLT AUXILIARY FORM "C" CONTACTS. ALL HEAT DETECTORS SHOWN ON THIS DETAIL SHALL BE INTERLOCKED WITH THE SHUNT TRIP CIRCUIT BREAKER. OPERATION OF ANY OF THE HEAT DETECTORS SHALL OPEN THE SHUNT TRIP BREAKER. 135 DEG. FIXED HEAT DETECTORS SHALL BE RATED FOR AT LEAST 25 FOOT SPACING AND SHALL BE WITHIN 5 FEET OF SPRINKLER HEAD.

3. PHOTO ELECTRIC SMOKE DETECTOR WITH AUXILIARY FORM "C" CONTACTS AT TOP OF ELEVATOR SHAFT FOR ELEVATOR RECALL INSTALL 2#14 IN «"C TO ELEVATOR CONTROL PANEL.

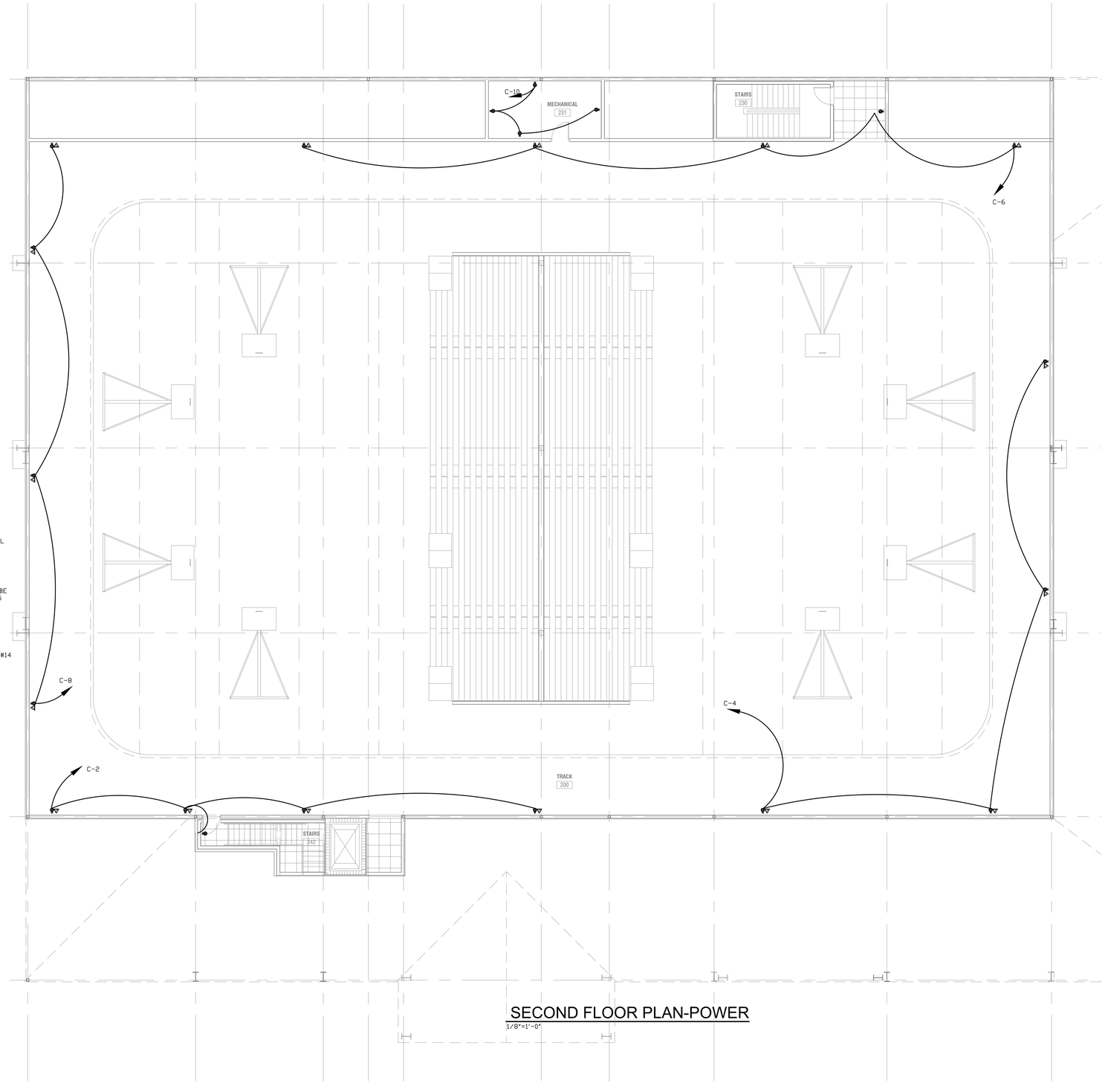
4. PHOTO ELECTRIC SMOKE DETECTOR WITH AUXILIARY FORM "C" CONTACTS IN ELEVATOR PIT FOR ELEVATOR RECALL. INSTALL 2#14 IN «"C TO ELEVATOR CONTROL PANEL.

5. PHOTOELECTRIC SMOKE DETECTOR WITH AUXILIARY FORM "C" CONTACTS IN ELEVATOR MACHINE ROOM FOR ELEVATOR RECALL INSTALL 2#14 IN «"C TO ELEVATOR CONTROL PANEL.

6. ENCLOSED SHUNT TRIP CIRCUIT BREAKER FOR ELEVATOR SHUT DOWN. 120 VOLT SHUNT TRIP COIL. FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.

7. USE ELEVATOR ROOM RECEPTACLE POWER FOR CONTROL OF SHUNT TRIP BREAKER. HEAT DETECTORS SHALL BE WIRED IN SERIES WITH SHUNT TRIP COIL (2#12, #12 BOND, «"C)

TYPICAL ELEVATOR ROOM & PIT



SECOND FLOOR PLAN-POWER

1/8"=1'-0"

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WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER

DALTON, GEORGIA

SHEET TITLE:
SECOND FLOOR PLAN -POWER DETAIL

PRINTED:

NUMBER:
E-2

WHITFIELD COUNTY GYM PRINTED DATE: 09/16/20

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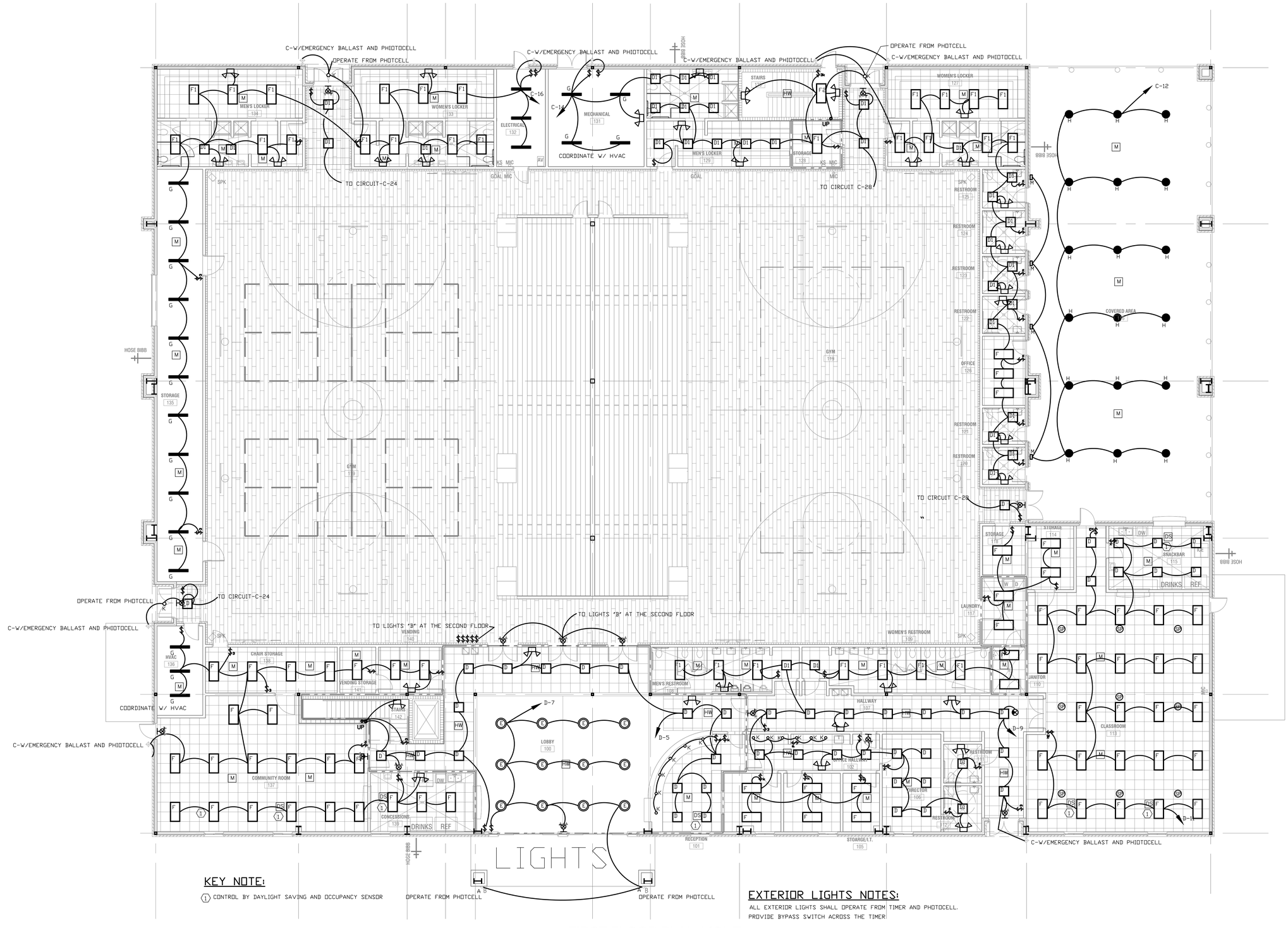

FIRST FLOOR PLAN-LIGHT

1/8"=1'-0"

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WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER

DALTON, GEORGIA

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NUMBER:
E-3

WHITFIELD COUNTY GYM PRINTED DATE: 09/16/20

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CONTRACTOR MUST VERIFY THE TYPE OF CEILING BEFORE BIDDING THE PROJECT.

LIGHT FIXTURES SCHEDULE

Symbol	Label	Manufacturer	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage
	A	HEALTHCARE KUZTCO	HPSB-MVOLT-40K-BENNO HORIZONTAL WALL SCONCE AT6510-LED-19W-1600LM,120V-40K	1	513 1600		17 19.4
	B	INDUSTRIAL LIGHTING	FZ8-10W-U-35-FRAL	1	17128	0.95	108
	C	SOLERA	30W-CRS-12X35-LED-4000L-UNV-WM-UDF-EM-WL-PC				38
	D	CREE LIGHTING LITHONIA	ZR22-30L-835-10V5-UNV 2VTL4-33L--EZ1-LP835- RECESSED	1	3420.323	0.95	24.8
	D1	CREE LIGHTING LITHONIA	ZR22-30L-835-10V5-UNV-WET LOCATION RECESSED BVTL2-33L--EZ1-LP835- WET LOCATION	1	3420.323	0.95	24.8
	E	Voigt Lighting LITHONIA	Zon-Direct-202425-1000L/4K-DI-HPFRBRONZE-120-DIM 24" DIA KATRINA LED, CIRCULAR DUAL KAT-DR-HLD-40K-2-CUSTOM-120-DI-CSS		11,622		132
	F F2	CREE LIGHTING LITHONIA	ZR24-40L-835-10V5-UNV 2VTL4-33L--EZ1-LP835- SM-ZR24 <SURFACE MOUNT>	1	3981.831	0.95	28.8
	F1	CREE LIGHTING LITHONIA	ZR24-40L-835-10V5-UNV-WET LCATION RECESSED BVTL4-33L--EZ1-LP835- WET LOCATION	1	3981.831	0.95	28.8
	G	Cree Inc LITHONIA	LS4C Series, 40L Lumen Package, 4000K Color Temperature, 0-10V Dimming ZL1D-L24-3500LM-FST-120-40K-80CRI-GALVB	1	3850.903	0.95	28.91
	H	Industrial Lighting Products Inc LITHONIA	UFD-58WLED-120-40-DIM- Frosted plastic lens enclosu re ZLVCPG-LED-V8-P4-40K-80CRI-T5M-120-DMG	1	7420.436	0.95	58.1541
	K	LiteLine LITHONIA	S4299 1-2- SLM6-40-90CRI-C-WH WET LOCATION WF6-LED-40K-90CRI- WET LOCATION	1	1022	0.95	11.33
	L	Industrial Lighting Products Inc	FZ4-32W-U-35-FRAL	1	4386	0.95	33W
	M	BEL LIGHTING	ALINA-980D.G9	1	500	0.95	15W
		EXITRONIX	WLED-90-G2-WPV-2 OPTION-WIRE GUARD FOR GYM.				
		EXITRONIX	VLED-EL90-G2 OPTION-WIRE GUARD FOR GYM.				
		EXITRONIX	NAV-NC-R-B- OPTION-WIRE GUARD FOR GYM.				

M LEVINTON OCCUPANCY SENSOR OSC05/10/20-MWW

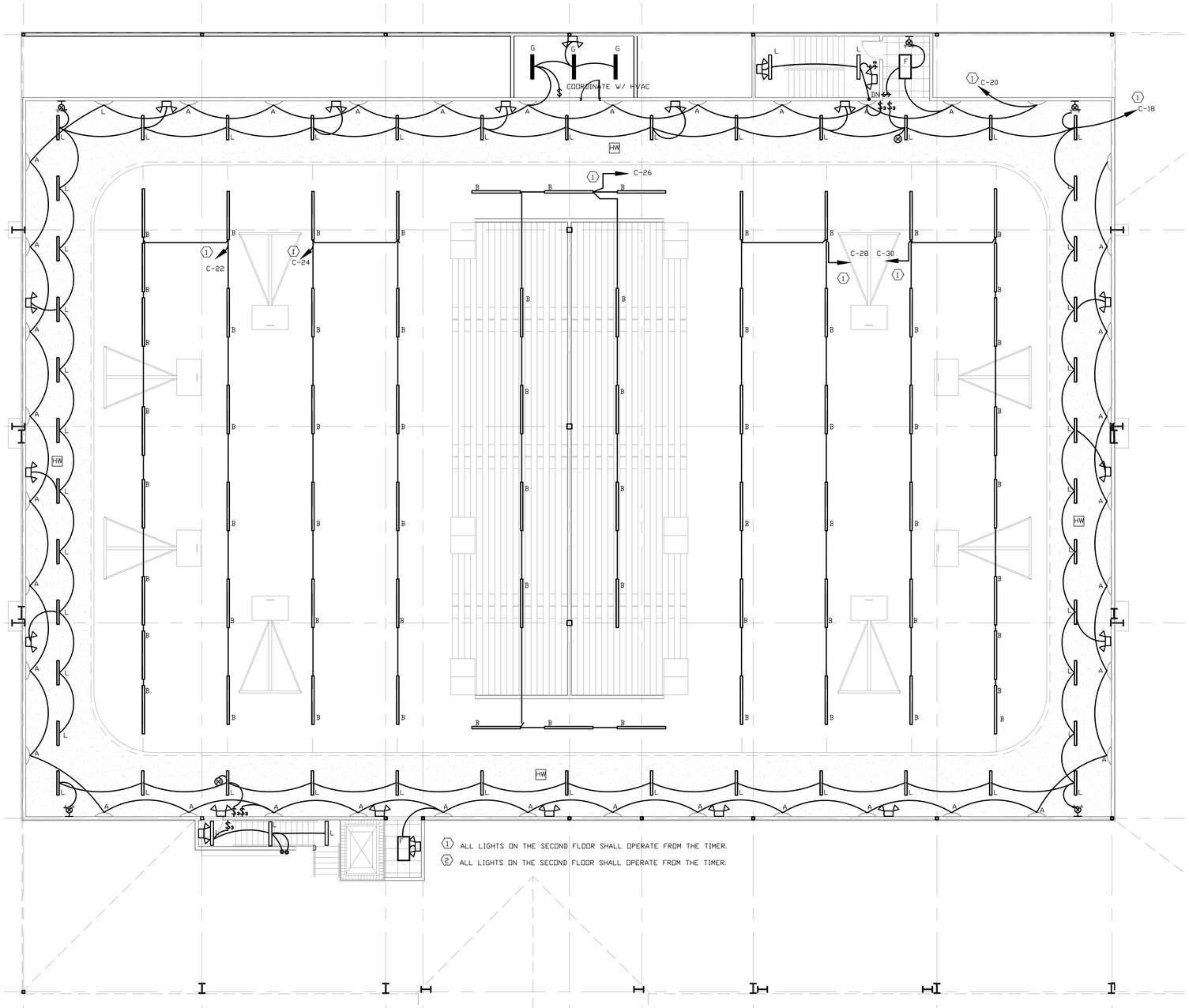
M1 LEVINTON OCCUPANCY SENSOR OSW12-MDW

$n LEVINTON OCCUPANCY SENSOR SWITCH-OSMTT

HW HALLWAY SENSOR SHALL REDUCE LIGHT 50% NO OCCUPANCY

$n WALL SWITCH WITH ON/OFF AND DIMMING -ADAPTABLE
WALL SWITCH LEVINTON-RLVSW-4LW

DS LEVINTON OCCUPANCY SENSOR OSC05/10/20-MWW



SECOND FLOOR PLAN-LIGHT

1/8"=1'-0"

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REVISIONS					
Number	Date:	Remarks:	Number	Date:	Remarks:
X	00-00-00	N/A			

CONSULTANTS

Date Plotted : Sep 16, 2020 - 5:39pm
file: 2020-020E4.DWG

ATLANTA MANAGEMENT AND ENGINEERING CONSULTANTS, INC.
2081 LULLWATER PLACE, LAWRENCEVILLE, GA. 30043
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SEAL

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 015330 ARCHITECT

WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER

DALTON, GEORGIA

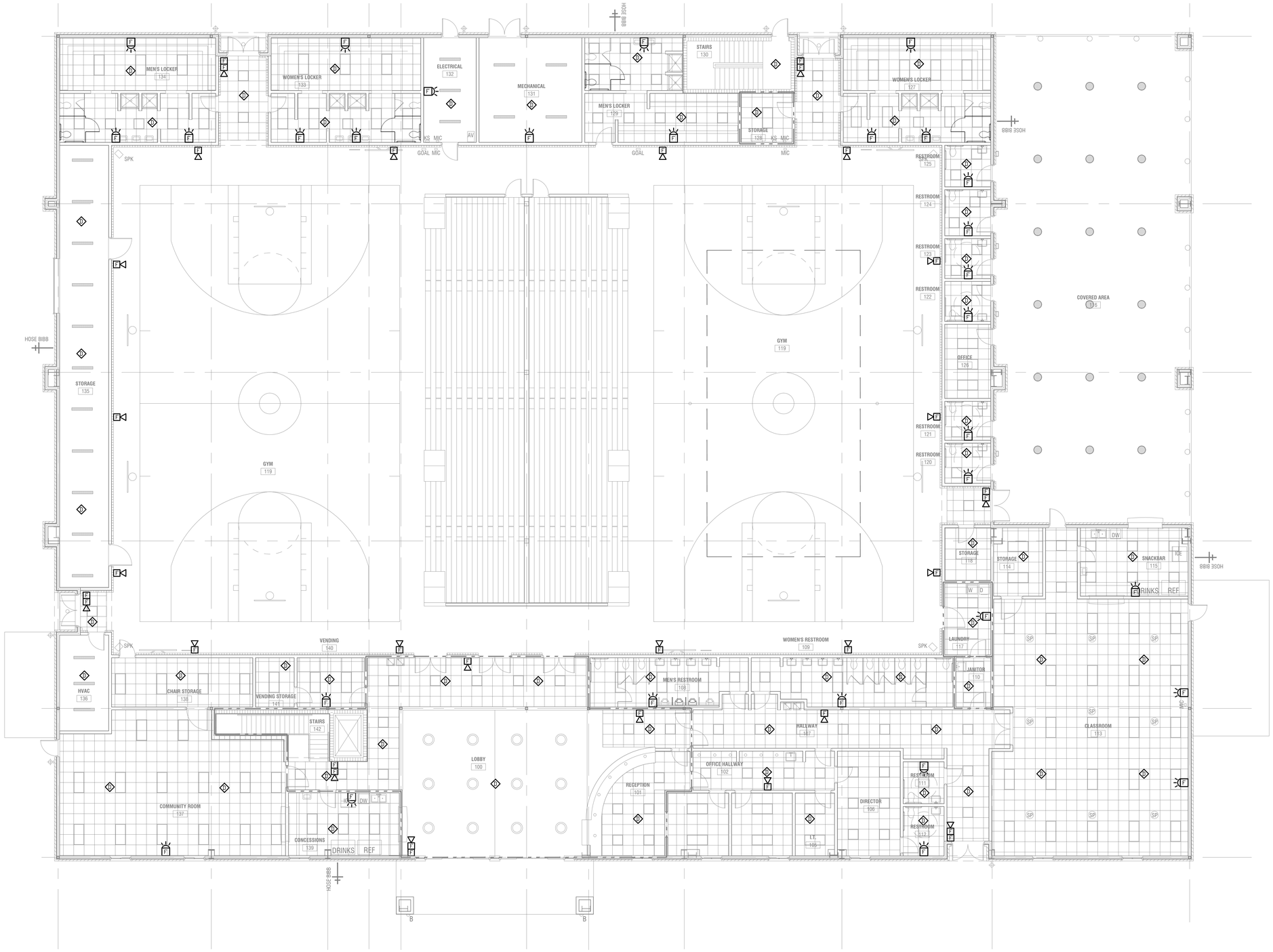
SHEET TITLE:
SECOND FLOOR PLAN -LIGHT
LIGHT FIXTURES SCHEDULE

PRINTED:

NUMBER:
E-4

WHITFIELD COUNTY GYM PRINTED DATE: 09/16/20

Sep 16 2020 | C:\2020-020whitfield gym\2020-020E4.dwg



FIRST FLOOR PLAN-FIRE

1/8"=1'-0"

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Number	Date:	Remarks:	Number	Date:	Remarks:
X	00-00-00	N/A			

CONSULTANTS

Date Plotted : Sep 16, 2020 - 5:54pm
file: 2020-020E5.DWG

ATLANTA MANAGEMENT AND ENGINEERING CONSULTANTS, INC.
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GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 015330 P. E. PARTIN

WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER

DALTON, GEORGIA

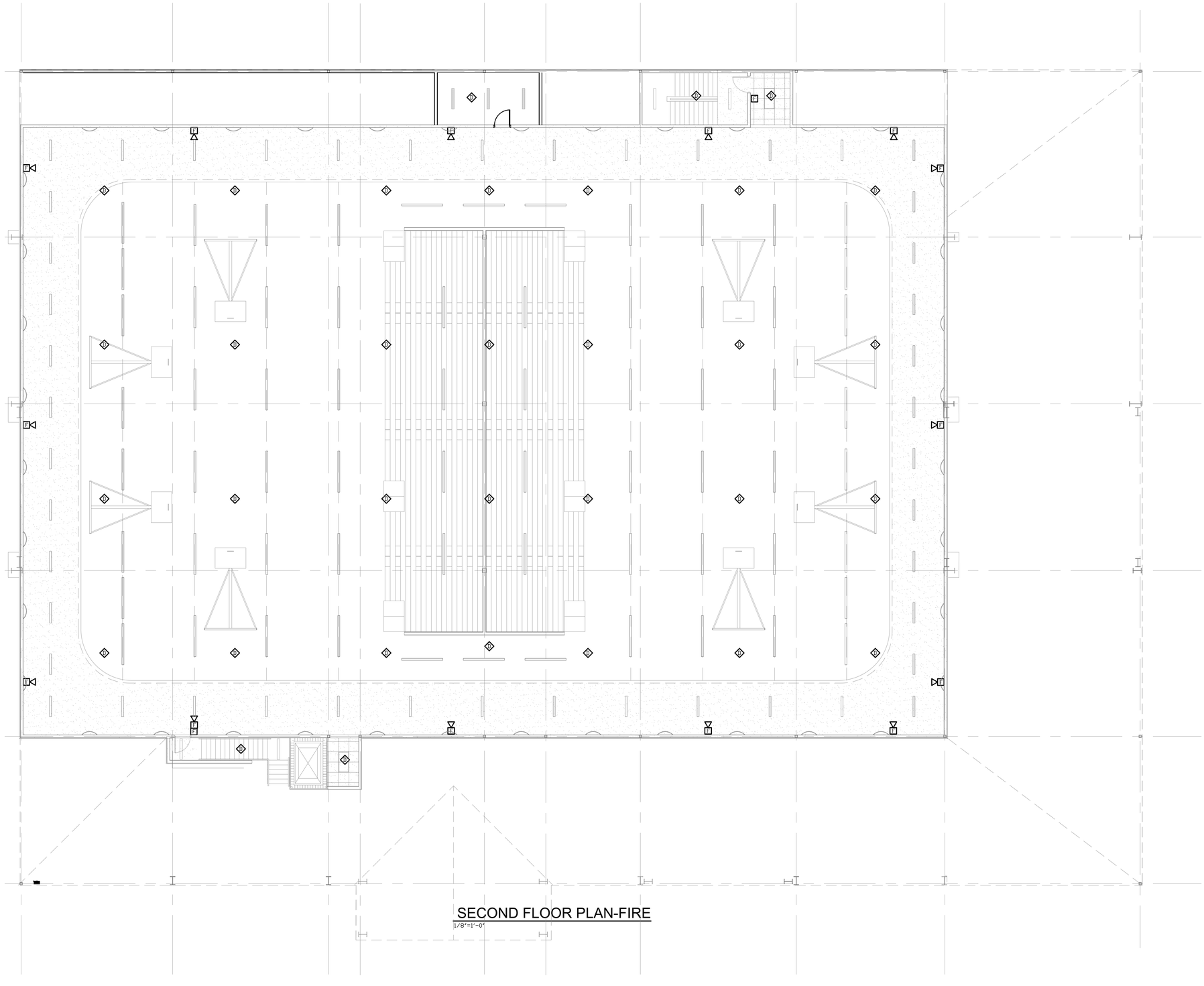
SHEET TITLE:
FIRST FLOOR PLAN -FIRE

PRINTED:

NUMBER:
E-5

WHITFIELD COUNTY GYM PRINTED DATE: 09/16/20

Sep 16 2020 | C:\2020-020whitfield gym\2020-020E5.dwg



SECOND FLOOR PLAN-FIRE
1/8"=1'-0"

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WHITFIELD COUNTY GYM PRINTED DATE: 09/16/20

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CONSULTANTS

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file: 2020-020E6.DWG

ATLANTA MANAGEMENT AND ENGINEERING CONSULTANTS, INC.
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SEAL

GEORGIA REGISTERED No. 015330 PROFESSIONAL ARCHITECT

WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER

DALTON, GEORGIA

SHEET TITLE:
SECOND FLOOR PLAN -FIRE

PRINTED:

NUMBER:
E-6

PANEL "A" SCHEDULE

MAIN: 200 M.L.O. | VOLTAGE 208 | 3Ø | WIRES: 4 | MOUNTING: RECESSED | AIC: 42,000

CKT#	BRKR	DESCRIPTION	LTG	REC	MTR	A/C	HTG	KIT	MISC	A	B	C	LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	BRKR	CKT#
1	20/1	RECP-COMMUNITY	0.0	1.6	0.0	0.0	0.0	0.0	0.0	3.2			0.0	1.6	0.0	0.0	0.0	0.0	0.0	REC-RECEPTION	20/1	2
3	20/1	RECP-COMMUNITY	0.0	1.2	0.0	0.0	0.0	0.0	0.0		2.8		0.0	1.6	0.0	0.0	0.0	0.0	0.0	RECP-OFFICE 103	20/1	4
5	20/1	RECP-COMMUNTY	0.0	1.2	0.0	0.0	0.0	0.0	0.0			2.8	0.0	1.6	0.0	0.0	0.0	0.0	0.0	RECP-OFFCIE-104	20/1	6
7	20/1	RECP-CONCE-139	0.0	0.8	0.0	0.0	0.0	0.0	0.0	1.6			0.0	0.8	0.0	0.0	0.0	0.0	0.0	RECP-IT-105	20/1	8
9	20/1	RECP-DRINKS	0.0	0.0	0.0	0.0	0.0	0.0	0.8		2.0		0.0	1.2	0.0	0.0	0.0	0.0	0.0	RECP-IT -105	20/1	10
11	20/1	RECP-ICE	0.0	0.0	0.0	0.0	0.0	0.0	1.6			2.8	0.0	1.2	0.0	0.0	0.0	0.0	0.0	RECP-DIR.-106	20/1	12
13	20/1	DISHWASHER	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.6			0.0	1.2	0.0	0.0	0.0	0.0	0.0	RECP-DIR-106	20/1	14
15	20/1	REFRIGERATOR	0.0	0.0	0.0	0.0	0.0	0.0	0.4		2.0		0.0	1.6	0.0	0.0	0.0	0.0	0.0	RECP-RR-112	20/1	16
17	20/1	RECP-CONC-139	0.0	0.8	0.0	0.0	0.0	0.0	0.0			2.4	0.0	1.6	0.0	0.0	0.0	0.0	0.0	RECP-HALLWAY 107	20/1	18
19	20/1	RECP-CONC-139	0.0	0.8	0.0	0.0	0.0	0.0	0.0	1.6			0.0	0.8	0.0	0.0	0.0	0.0	0.0	RECP-OFFICE-102	20/1	20
21	20/1	RECP-HVAC	0.0	1.6	0.0	0.0	0.0	0.0	0.0		2.8		0.0	1.2	0.0	0.0	0.0	0.0	0.0	RECP-OFFICE-102	20/1	22
23	20/1	CHAIR STORAGE	0.0	1.6	0.0	0.0	0.0	0.0	0.0			3.2	0.0	1.6	0.0	0.0	0.0	0.0	0.0	RECP-MEN'S-108	20/1	24
25	20/1	RECP-VENDING ST	0.0	1.6	0.0	0.0	0.0	0.0	0.0	2.4			0.0	0.8	0.0	0.0	0.0	0.0	0.0	DRINKING FTN	20/1	26
27	20/1	RECP-VENDING M/C	0.0	0.0	0.0	0.0	0.0	0.0	1.6		3.2		0.0	1.6	0.0	0.0	0.0	0.0	0.0	RECP-WOMEN-109	20/1	28
29	20/1	RECP-VENDING M/C	0.0	0.0	0.0	0.0	0.0	0.0	1.6			2.4	0.0	0.8	0.0	0.0	0.0	0.0	0.0	RECP-JANITROL	20/1	30
31	20/1	RECP-VENDING M/C	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6			0.0	0.0	0.0	0.0	0.0	0.0	0.0	RECP-CLASS 113	20/1	32
33	20/1	RECP-DRINK FTN	0.0	0.0	0.0	0.0	0.0	0.0	0.4		0.4		0.0	0.0	0.0	0.0	0.0	0.0	0.0	RECP-CLASS 113	20/1	34
35	20/1	RECP-LOBBY	0.0	1.6	0.0	0.0	0.0	0.0	0.0			1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RECP-CLASS 113	20/1	36
37	20/1	RECP-LOBBY	0.0	1.6	0.0	0.0	0.0	0.0	0.0	1.6			0.0	0.0	0.0	0.0	0.0	0.0	0.0	RECP-CLASS 113	20/1	38
39	20/1	RECP-RECEPTION	0.0	1.6	0.0	0.0	0.0	0.0	0.0		1.6		0.0	0.0	0.0	0.0	0.0	0.0	0.0	RECP-STORAGE-114	20/1	40
41	20/1	RECP-RR-111	0.0	1.6	0.0	0.0	0.0	0.0				1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RECP STORAGE-118	20/1	42
			0.0	17.6	0.0	0.0	0.0	0.0	8.4				0.0	19.2	0.0	0.0	0.0	0.0	0.0			
RECEPTACLES		36.8																		CONNECTED LOAD		45.2
MOTORS		0.0							KVA	13.6	14.8	16.8								DEMAND LOAD		31.8
A/C		0.0							AMPS	113.3	123.3	140.0										
HEATING		0.0																		CONNECTED AMPS		125.6
KITCHEN		0.0																		DEMAND AMPS		88.4
MISC.		8.4																				
LIGHTING		0.0																				

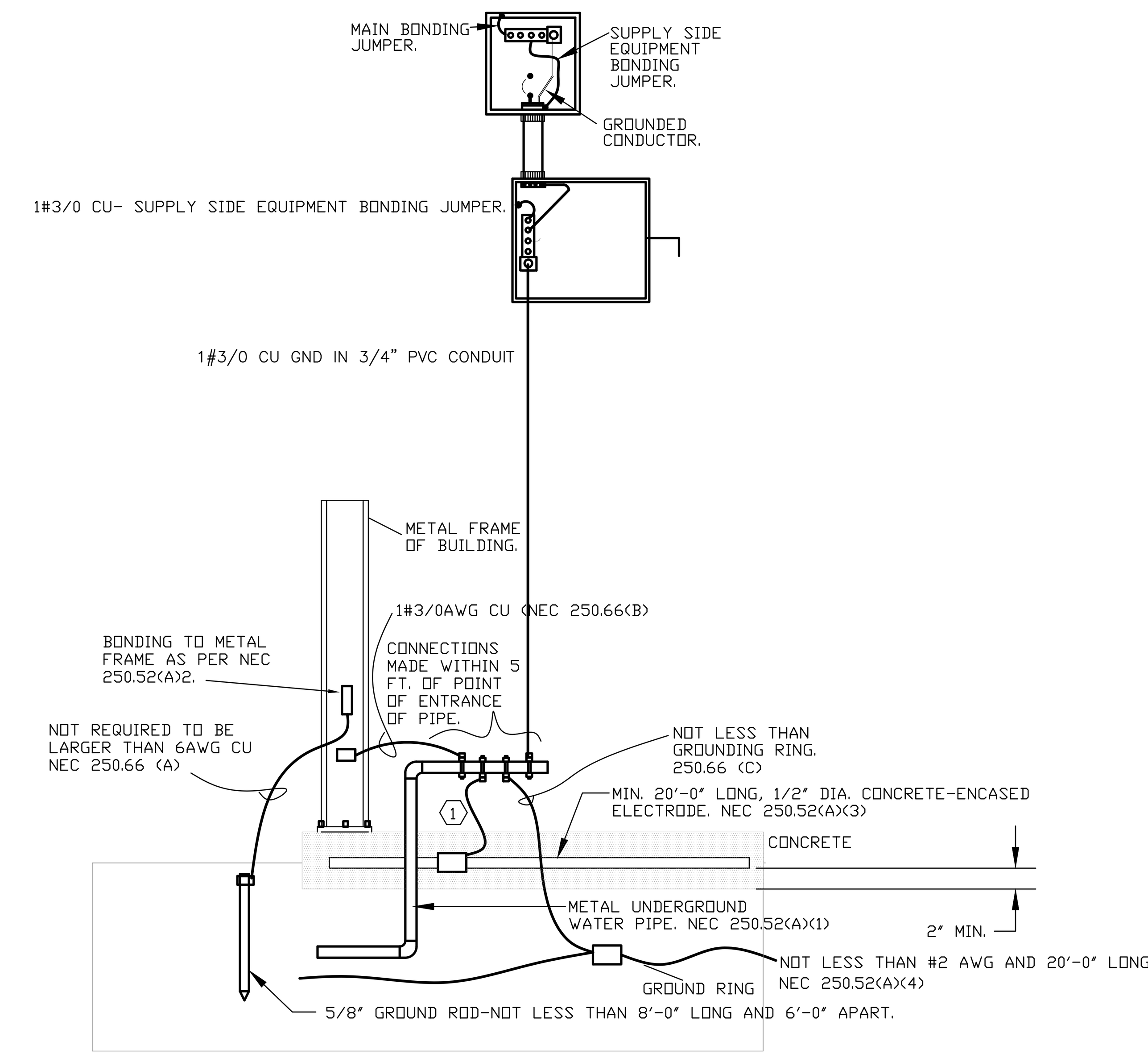
NOTES: * HACR BREAKER **ARC FAULT BREAKER *** SHUNT BREAKER **** TIMER **** GFI BREAKER

PANEL "D" SCHEDULE

MAIN: 200 M.L.O. | VOLTAGE 208 | 3Ø | WIRES: 4 | MOUNTING: RECESSED | AIC: 42,000

CKT#	BRKR	DESCRIPTION	LTG	REC	MTR	A/C	HTG	KIT	MISC	A	B	C	LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	BRKR	CKT#
1	20/1	FAN COILS	0.0	0.0	1.6	0.0	0.0	0.0	0.0	1.6			0.0	0.0	0.0	0.0	0.0	0.0	0.0		20/1	2
3	20/1	FAN COILS	0.0	0.0	1.6	0.0	0.0	0.0	0.0		1.6		0.0	0.0	0.0	0.0	0.0	0.0	0.0		20/1	4
5	20/1	LIGHTS	1.3	0.0	0.0	0.0	0.0	0.0	0.0			1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0		20/1	6
7	20/1	LIGHTS-LOBBY	1.6	0.0	0.0	0.0	0.0	0.0	0.0	1.6			0.0	0.0	0.0	0.0	0.0	0.0	0.0		20/1	8
9	20/1	LIGHTS	1.1	0.0	0.0	0.0	0.0	0.0	0.0		1.1		0.0	0.0	0.0	0.0	0.0	0.0	0.0		20/1	10
11	20/1	LIGHTS	1.1	0.0	0.0	0.0	0.0	0.0	0.0			1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0		20/1	12
13	20/1		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		20/1	14
15	20/1		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		20/1	16
17	20/1		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		20/1	18
19	20/1		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		20/1	20
21	20/1		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		20/1	22
23	20/1		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		20/1	24
25	20/1		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		20/1	26
27	20/1		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		20/1	28
29	20/1		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		20/1	30
31	20/1		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		20/1	32
33	20/1		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		20/1	34
35	20/1		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		20/1	36
37	20/1		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		20/1	38
39	20/1		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		20/1	40
41	20/1		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		20/1	42
			5.1	0.0	3.2	0.0	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0	0.0			
RECEPTACLES		0.0																		CONNECTED LOAD		8.3
MOTORS		3.2							KVA	3.2	2.7	2.4								DEMAND LOAD		10.4
A/C		0.0							AMPS	26.7	22.5	20.0										
HEATING		0.0																		CONNECTED AMPS		23.1
KITCHEN		0.0																		DEMAND AMPS		28.8
MISC.		0.0																				
LIGHTING		5.1																				

NOTES: * HACR BREAKER **ARC FAULT BREAKER *** SHUNT BREAKER **** TIMER **** GFI BREAKER



GROUNDING ELECTRODE SYSTEM
NTS

(1) NOT RQUIRED TO BE LARGER THAN 4AWG CU. NEC250.66 (B)

SEE NEC 250.50 FOR MORE DETAIL OF GROUNDING REQUIREMENTS.

PANEL "B" SCHEDULE

MAIN: 200 M.L.O. | VOLTAGE 208 | 3Ø | WIRES: 4 | MOUNTING: SURFACE | AIC: 42,000

CKT#	BRKR	DESCRIPTION	LTG	REC	MTR	A/C	HTG	KIT	MISC	A	B	C	LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	BRKR	CKT#
1	20/1	RECP-LAUNDRY	0.0	0.4	0.0	0.0	0.0	0.0	0.0	2.0			0.0	1.6	0.0	0.0	0.0	0.0	0.0	RECP-RR-125	20/1	2
3	20/1	WASHER	0.0	0.0	0.0	0.0	0.0	0.0	0.4		0.8		0.0	0.4	0.0	0.0	0.0	0.0	0.0	RECP-OUTSIDE	20/1	4
5	30/2	DRYER	0.0	0.0	0.0	0.0	0.0	0.0	2.5			3.7	0.0	1.2	0.0	0.0	0.0	0.0	0.0	RECP-OUTSIDE	20/1	6
7			0.0	0.0	0.0	0.0	0.0	0.0	2.5	4.1			0.0	1.6	0.0	0.0	0.0	0.0	0.0	RECP-WOMEN-127	20/1	8
9	20/1	RECP-SNACK BAR	0.0	1.2	0.0	0.0	0.0	0.0	0.0		2.8		0.0	1.6	0.0	0.0	0.0	0.0	0.0	RECP-WOMEN-127	20/1	10
11	20/1	DISHWASHER	0.0	0.0	0.0	0.0	0.0	0.0	0.4			2.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	RECP-STORAGE128	20/1	12
13	20/1	ICE	0.0	0.0	0.0	0.0	0.0	0.0	1.6	2.4			0.0	0.8	0.0	0.0	0.0	0.0	0.0	RECP-MEN-129	20/1	14
15	20/1	REF	0.0	0.0	0.0	0.0	0.0	0.0	1.6		3.2		0.0	1.6	0.0	0.0	0.0	0.0	0.0	RECP-MEN-129	20/1	16
17	20/1	DRINKS	0.0	0.0	0.0	0.0	0.0	0.0	1.6			3.2	0.0	1.6	0.0	0.0	0.0	0.0	0.0	RECP-MECH-131	20/1	18
19	20/1	RECP-SNACKBAR	0.0	0.8	0.0	0.0	0.0	0.0	0.0	2.0			0.0	1.2	0.0	0.0	0.0	0.0	0.0	RECP-MECH-131	20/1	20
21	20/1	RECP-SNACKBAR	0.0	0.4	0.0	0.0	0.0	0.0	0.0		1.6		0.0	1.2	0.0	0.0	0.0	0.0	0.0	RECP-ELECT-132	20/1	22
23	20/1	RECP-RR -120	0.0	1.6	0.0	0.0	0.0	0.0	0.0			3.2	0.0	1.6	0.0	0.0	0.0	0.0	0.0	RECP-ELECT-132	20/1	24
25	20/1	RECP-OUTSIDE	0.0	0.4	0.0	0.0	0.0	0.0	0.0	2.0			0.0	1.6	0.0	0.0	0.0	0.0	0.0	RECP-WOMEN-133	20/1	26
27	20/1	RECP-RR-121	0.0	1.6	0.0	0.0	0.0	0.0	0.0		3.2		0.0	1.6	0.0	0.0	0.0	0.0	0.0	RECP-WOMEN 133	20/1	28
29	20/1	RECP-OUTSIDE	0.0	0.4	0.0	0.0	0.0	0.0	0.0			2.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	RECP-MEN-134	20/1	30
31	20/1	RECP-OFFCIE 126	0.0	1.6	0.0	0.0	0.0	0.0	0.0	3.2			0.0	1.6	0.0	0.0	0.0	0.0	0.0	RECP-MEN-134	20/1	32
33	20/1	RECP-RR-122	0.0	1.6	0.0	0.0	0.0	0.0	0.0		3.2		0.0	1.6	0.0	0.0	0.0	0.0	0.0	RECP-STORAGE 135	20/1	34
35	20/1	RECP-OUTSIDE	0.0	0.4	0.0	0.0	0.0	0.0	0.0			0.8	0.0	0.4	0.0	0.0	0.0	0.0	0.0	RECP-OUTSIDE	20/1	36
37	20/1	RECP-RR-123	0.0	1.6	0.0	0.0	0.0	0.0	0.0	1.6			0.0	0.0	0.0	0.0	0.0	0.0	0.0	FAN COILS	20/1	38
39	20/1	RECP-OUTSIDE	0.0	0.4	0.0	0.0	0.0	0.0	0.0		0.4		0.0	0.0	0.0	0.0	0.0	0.0	0.0		20/1	40
41	20/1	REST-RR-124	0.0	1.6	0.0	0.0	0.0	0.0	0.0			1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0		20/1	42
			0.0	14.0	0.0	0.0	0.0	0.0	10.6				0.0	24.4	0.0	0.0	0.0	0.0	0.0			
RECEPTACLES		38.4																		CONNECTED LOAD		49.0
MOTORS		0.0							KVA	17.3	15.2	16.5								DEMAND LOAD		34.8
A/C		0.0							AMPS	144.2	126.7	137.5										
HEATING		0.0																		CONNECTED AMPS		136.2
KITCHEN		0.0																		DEMAND AMPS		96.7
MISC.		10.6																				
LIGHTING		0.0																				

NOTES: * HACR BREAKER **ARC FAULT BREAKER *** SHUNT BREAKER **** TIMER **** GFI BREAKER

PANEL "MDP" SCHEDULE

MAIN: 1600 M.L.O. | VOLTAGE 208 | 3Ø | WIRES: 4 | MOUNTING: SURFACE | AIC: 42,000

CKT#	BRKR	DESCRIPTION	LTG	REC	MTR	A/C	HTG	KIT	MISC	A	B	C	LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	BRKR	CKT#
1	200/3	PANEL "A &D"	1.7	12.3	1.1	0.0	0.0	0.0	2.8	20.7			0.0	0.0	0.0	2.8	0.0	0.0	0.0	OAC-2 *	45/3	2
3			1.7	12.3	1.1	0.0	0.0	0.0	2.8		20.7		0.0	0.0	0.0	2.8	0.0	0.0	0.0			4
5			1.7	12.3	1.1	0.0	0.0	0.0	2.8			20.7	0.0	0.0	0.0	2.8	0.0	0.0	0.0			6
7	200/3	PANEL "B"	0.0	12.9	0.0	0.0	0.0	0.0	3.6	33.5			0.0	0.0	0.0	0.0	0.0	0.0	17.0	WATER HEATER	200/3	8
9			0.0	12.9	0.0	0.0	0.0	0.0	3.6		33.5		0.0	0.0	0.0	0.0	0.0	0.0	17.0			10
11			0.0	12.9	0.0	0.0	0.0	0.0	3.6			33.5	0.0	0.0	0.0	0.0	0.0	0.0	17.0			12
13	200/3	PANEL "C"	4.4	9.6	0.0	0.0	0.0	0.0	4.5	30.4			0.0	0.0	11.9	0.0	0.0	0.0	0.0	ELEVATOR	150/3	14
15			4.4	9.6	0.0	0.0	0.0	0.0	4.5		30.4		0.0	0.0	11.9	0.0	0.0	0.0	0.0			16
17			4.4	9.6	0.0	0.0	0.0	0.0	4.5			30.4	0.0	0.0	11.9	0.0	0.0	0.0	0.0			18
19		SPACE	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	SHUNT		20
21		SPACE	0.0	0.0	0.0	0.0	0.0	0.0	0.0		3.2		0.0	0.0	0.0	3.2	0.0	0.0	0.0	CU-1 *	50/ 2	22
23		SPACE	0.0	0.0	0.0	0.0	0.0	0.0	0.0			3.2	0.0	0.0	0.0	3.2	0.0	0.0	0.0			24
25	100/3	OAU-1	0.0	0.0	0.0	0.0	9.2	0.0	0.0	12.0			0.0	0.0	0.0	2.8	0.0	0.0	0.0	CU-2*	35/3	26
27			0.0	0.0	0.0	0.0	9.2	0.0	0.0		12.0		0.0	0.0	0.0	2.8	0.0	0.0	0.0			28
29			0.0	0.0	0.0	0.0	9.2	0.0	0.0			12.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0			30
31	70/3	OAU-2	0.0	0.0	0.0	0.0	6.6	0.0	0.0	13.2			0.0	0.0	0.0	6.6	0.0	0.0	0.0	CU-3*	80/3	32
33			0.0	0.0	0.0	0.0	6.6	0.0	0.0		13.2		0.0	0.0	0.0	6.6	0.0	0.0	0.0			34
35			0.0	0.0	0.0	0.0	6.6	0.0	0.0			13.2	0.0	0.0	0.0	6.6	0.0	0.0	0.0			36
37	50/3	OAC-1 *	0.0	0.0	0.0	3.9	0.0	0.0	0.0	16.8			0.0	0.0	0.0	12.9	0.0	0.0	0.0	HEAT PUMP HP-1 *	175/3	38
39			0.0	0.0	0.0	3.9	0.0	0.0	0.0		16.8		0.0	0.0	0.0	12.9	0.0	0.0	0.0			40
41			0.0	0.0	0.0	3.9	0.0	0.0	0.0			16.8	0.0	0.0	0.0	12.9	0.0	0.0	0.0			42
43	225/3	HAU-1	0.0	0.0	0.0	0.0	19.6	0.0	0.0	32.5			0.0	0.0	0.0	12.9	0.0	0.0	0.0	HEAT PUMP HP-1 *	175/3	44
45			0.0	0.0	0.0	0.0	19.6	0.0	0.0		32.5		0.0	0.0	0.0	12.9	0.0	0.0	0.0			46
47			0.0	0.0	0.0	0.0	19.6	0.0	0.0			32.5	0.0	0.0	0.0	12.9	0.0	0.0	0.0			48
49	225/3	HAU-2	0.0	0.0	0.0	0.0	19.6	0.0	0.0	19.6			0.0	0.0	0.0	0.0	0.0	0.0	0.0	SPACE		50
51			0.0	0.0	0.0	0.0	19.6	0.0	0.0		19.6		0.0	0.0	0.0	0.0	0.0	0.0	0.0	SPACE		52
53			0.0	0.0	0.0	0.0	19.6	0.0	0.0			19.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	SPACE		54
			18.3	104.4	3.3	11.7	165.0	0.0	32.7				0.0	0.0	35.7	120.4	0.0	0.0	51.0			
RECEPTACLES		104.4																		CONNECTED LOAD		542.5
MOTORS		39.0							KVA	178.7	181.9	181.9								DEMAND LOAD		518.2
A/C		132.1							AMPS	1489.2	1515.8	1515.8										
HEATING		165.0																		CONNECTED AMPS		1507.6
KITCHEN		0.0																		DEMAND AMPS		1440.2
MISC.		83.7																				
LIGHTING		18.3																				

NOTES: * HACR BREAKER **ARC FAULT BREAKER *** SHUNT BREAKER **** TIMER **** GFI BREAKER

PANEL "C" SCHEDULE

MAIN: 200 M.L.O. | VOLTAGE 208 | 3Ø | WIRES: 4 | MOUNTING: SURFACE | AIC: 42,000

CKT#	BRKR	DESCRIPTION	LTG	REC	MTR	A/C	HTG	KIT	MISC	A	B	C	LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	BRKR	CKT#
1	20/1	BSKT BALL WINCH	0.0	0.0	1.6	0.0	0.0	0.0	0.0	3.2			0.0	1.6	0.0	0.0	0.0	0.0	0.0	RECP-2ND FL	20/1	2
3	20/1	BSKT BALL WINCH	0.0	0.0	1.6	0.0	0.0	0.0	0.0		3.2		0.0	1.6	0.0	0.0	0.0	0.0	0.0	RECP-2ND FL	20/1	4
5	20/1	BSKT BALL WINCH	0.0	0.0	1.6	0.0	0.0	0.0	0.0			3.2	0.0	1.6	0.0	0.0	0.0	0.0	0.0	RECP-2ND FL	20/1	6
7	20/1	BSKT BALL WINCH	0.0	0.0	1.6	0.0	0.0	0.0	0.0	3.2			0.0	1.6	0.0	0.0	0.0	0.0	0.0	RECP-2ND FL	20/1	8
9	20/1	BSKT BALL WINCH	0.0	0.0	1.6	0.0	0.0	0.0	0.0		3.2		0.0	1.6	0.0	0.0	0.0	0.0	0.0	RECP-MECH-213	20/1	10
11	20/1	BSKT BALL WINCH	0.0	0.0	1.6	0.0	0.0	0.0	0.0			2.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	LIGHTS-COVERED	20/1	12
13	20/1	BSKT BALL WINCH	0.0	0.0	1.6	0.0	0.0	0.0	0.0	3.0			1.4	0.0	0.0	0.0	0.0	0.0	0.0	LIGHTS	20/1	14
15	20/1	BSKT BALL WINCH	0.0	0.0	1.6	0.0	0.0	0.0	0.0		2.6		1.0	0.0	0.0	0.0	0.0	0.0	0.0	LIGHTS	20/1	16
17	20/1	RECP-GYM	0.0	1.6	0.0	0.0	0.0	0.0	0.0			3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	LIGHTS-TRACK	20/1	18
19	20/1	SCORE BOARD	0.0	1.6	0.0	0.0	0.0	0.0	0.0	2.5			0.9	0.0	0.0	0.0	0.0	0.0	0.0	LIGHTS-WALL-TRK	20/1	20
21	20/1	SCORE BOARD	0.0	1.6	0.0	0.0	0.0	0.0	0.0		3.1		1.5	0.0	0.0	0.0	0.0	0.0	0.0	LIGHTS-GYM	20/1	22
23	20/1	SCORE BOARD	0.0	1.6	0.0	0.0	0.0	0.0	0.0			2.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	LIGHTS-GYM	20/1	24
25	20/1	SCORE BOARD	0.0	1.6	0.0	0.0	0.0	0.0	0.0	3.1			1.5	0.0	0.0	0.0	0.0	0.0	0.0	LIGHTS-GYM	20/1	26
27	20/1	RECP-GYM	0.0	1.6	0.0	0.0	0.0	0.0	0.0		2.9		1.3	0.0	0.0	0.0	0.0	0.0	0.0	LIGHTS-GYM	20/1	28
29	20/1	RECP-GYM	0.0	1.6	0.0	0.0	0.0	0.0	0.0			3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	LIGHTS-GYM	20/1	30
31	20/1	SCORE BOARD	0.0	1.6	0.0	0.0	0.0	0.0	0.0	1.6			0.0	0.0	0.0	0.0	0.0	0.0	0.0		20/1	32
33	20/1	SCORE BOARD	0.0	1.6	0.0	0.0	0.0	0.0	0.0		1.6		0.0	0.0	0.0	0.0	0.0	0.0	0.0		20/1	34
35	20/1	RECP-GOAL	0.0	1.6	0.0	0.0	0.0	0.0	0.0			1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0		20/1	36
37	20/1	RECP-GYM	0.0	1.6	0.0	0.0	0.0	0.0	0.0	1.6			0.0	0.0	0.0	0.0	0.0	0.0	0.0		20/1	38
39	20/1	SCORE BOARD	0.0	1.6	0.0	0.0	0.0	0.0	0.0		1.6		0.0	0.0	0.0	0.0	0.0	0.0	0.0		20/1	40
41	20/1	SCORE BOARD	0.0	1.6	0.0	0.0	0.0	0.0	0.0			1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0		20/1	42
			0.0	20.8	12.8	0.0	0.0	0.0	0.0				13.1	8.0	0.0	0.0	0.0	0.0	0.0			
RECEPTACLES		28.8																		CONNECTED LOAD		54.7
MOTORS		12.8							KVA	18.2	18.2	18.3								DEMAND LOAD		51.8
A/C		0.0							AMPS	151.7	151.7	152.6										
HEATING		0.0																		CONNECTED AMPS		152.0
KITCHEN		0.0																		DEMAND AMPS		143.9
MISC.		0.0																				
LIGHTING		13.1																				

NOTES: * HACR BREAKER **ARC FAULT BREAKER *** SHUNT BREAKER **** TIMER **** GFI BREAKER

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WHITFIELD COUNTY GYM PRINTED DATE: 09/16/20

Sep 16 2020 | C:\2020-020whitfield gym\2020-020E1.dwg

REVISIONS

Number	Date:	Remarks:	Number	Date:	Remarks:
X	00-00-00	N/A			

CONSULTANTS

Date Plotted : Sep 16, 2020 - 7:38pm
file: 2020-020E1.DWG

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GEORGIA REGISTERED No. 015330 PROFESSIONAL ENGINEER ... T. PARIKH

WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER
DALTON, GEORGIA

SHEET TITLE: PANELS SCHEDULE
PRINTED:
NUMBER: E-7

ELECTRICAL NOTES

1. CONTRACTOR SHALL NOT RUN ANY WIRES WITHOUT VERIFYING WITH ELECTRICAL CHARACTERISTICS OF EQUIPMENT. DESIGN DOCUMENTS MAY DIFFER FROM ACTUAL ELECTRICAL CHARACTERISTICS OF EQUIPMENT. ENGINEER DOES NOT HAVE ACTUAL EQUIPMENT DATA DURING DESIGN PROCESS. CONTRACTOR SHALL BRING TO ATTENTION OF ENGINEER FOR ANY DISCREPANCIES. CONTRACTOR MUST SUBMIT EQUIPMENT DATA WHICH REQUIRED ELECTRICAL POWER TO ENGINEER. APPROVED EQUIPMENT BY ENGINEER OR ARCHITECT DOES NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY OF VERIFICATION OF ELECTRICAL CHARACTERISTICS OF EQUIPMENT AND MODIFY CIRCUITS AS NECESSARY.

2. CONTRACTOR SHALL VERIFY UTILITY COMPANY?S POWER SUPPLY (VOLTAGES AND PHASE) BEFORE PURCHASING ANY EQUIPMENT, LIGHT FIXTURES AND NOTIFY ENGINEER FOR ANY DISCREPANCIES. CONTRACTOR SHALL SUBMIT ALL EQUIPMENT DATA AND LIGHT FIXTURES FOR APPROVAL.

3. ANY EQUIPMENT REQUIRES DUAL VOLTAGES (e.g. 240/120V FOR OVEN AND DRYER OR 277/120 VOLTS WITH CONTROL WIRES), CONTRACTOR SHALL RUN NEUTRAL WIRE

4. PROVIDE GROUND FAULT OUTLET WITHIN 25 FEET OF ALL AIR CONDITIONING EQUIPMENT ON OUTSIDE ON GROUND, ROOF AND IN THE ATTIC (REGULAR) AS PER NEC CODE 210-8(B) & 210-63. CONNECT TO NEAREST RECEPTACLE CIRCUIT UNLESS OTHERWISE INDICATED.

5. PROVIDE ELECTRICAL CONNECTIONS TO ALL ITEMS SHOWN AS PART OF THE GENERAL CONTRACT WHICH REQUIRES ELECTRICITY.

6. COORDINATE ALL CONNECTIONS WITH EQUIPMENT SUPPLIER FOR EXACT LOCATION AND REQUIREMENTS.

7. PROVIDE CONNECTION TO ALL APPLIANCES, MECHANICAL AND PLUMBING EQUIPMENT INCLUDING TOILET EXHAUST FANS AND UNDER CABINET LIGHTS, SIGNS, ETC.,. CONTRACTOR MUST VERIFY WITH ARCHITECTURAL, INTERIOR, CIVIL, MECHANICAL, AND PLUMBING CONTRACTORS THE QUANTITY OF EQUIPMENT CONNECTIONS BEFORE BIDDING AND FINAL CONTRACT. NEGLIGENCE OF VERIFYING QUANTITY WILL NOT BE COMPENSATED.

8. PROVIDE MINIMUM OF 1/0 COPPER GROUND CONDUCTOR FROM TELEPHONE BACKBOARD TO BUILDING GROUNDING SYSTEM. CONTRACTOR SHALL PROVIDE 8'-0" X 4'-0" X 3/4" THICK FIRE RETARDANT PLYWOOD TELEPHONE BACKBOARD AND 120 VOLT CONVENIENCE DUPLEX OUTLET NEXT TO TELEPHONE BACKBOARD. CONTRACTOR SHALL RUN TWO 4" PVC CONDUIT FROM TELEPHONE BOARD TO THE PUBLIC RIGHT OF WAY OR A POLE. CONTRACTOR SHALL COORDINATE WITH TELEPHONE COMPANY FOR THE THEIR REQUIREMENTS BEFORE FINAL CONTRACT. CONTRACTOR SHALL INFORM ARCHITECT FOR ANY DISCREPANCIES.

9. COORDINATE ALL ELECTRICAL AND COMMUNICATION OUTLETS WITH MILLWORK. IF ACCESS GROMMETS ARE NOT PROVIDED IN COUNTER TOP, INSTALL OUTLETS ABOVE COUNTER.

10. EXPOSED WIRING SHALL BE IN EMT OR RIGID CONDUIT.

11. SEE MECHANICAL DRAWINGS FOR LOCATION OF HEATING AND A/C EQUIPMENT.

12. THIS BUILDING SHALL BE EQUIPPED WITH A FIRE SUPPRESSION SPRINKLER SYSTEM, DESIGNED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA #13 AND ALL LOCAL CODES AND ORDINANCES. COORDINATE THE INSTALLATION OF INDICATED EMERGENCY ALARM DEVICES WITH THE SPRINKLER CONTRACTOR.

13. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF A COMPLETE CABLE TELEVISION SYSTEM WITH OWNER AND LOCAL CABLE TV COMPANY. INSTALL MINIMUM 4" DIA. PVC CONDUIT UNDERGROUND AND UNDER SLAB, FROM BUILDING EXTERIOR TO CABLE TV PANEL IN UTILITY ROOM. CONDUIT SHALL BE INSTALLED WITH LONG RADIUS SWEEPS AND BE STUBBED UP 6" A.F.F. NOTE - MINIMUM CONDUIT SIZE FOR CABLE TV SYSTEM SHALL BE 1" DIA.

14. ALL RECEPTACLES AT ELEVATOR, VANITY, BATH, KITCHEN COUNTER AREAS, AND WET LOCATION SHALL BE GROUND FAULT INTERRUPTER TYPE.

15. VERIFY EXACT LOCATIONS AND LOADS OF SERVICES TO EQUIPMENT TO BE SUPPLIED BY OTHERS, SUCH AS BUILDING SIGNAGE, VENDING MACHINES, ETC., AS WELL AS ALL MECHANICAL EQUIPMENT.

16. RECESSED LIGHT FIXTURES IN RATED CEILINGS MUST BE PROTECTED OR LISTED FOR USE IN THE RATED ASSEMBLY.

17. ELECTRICAL OUTLETS BOXES ON OPPOSITE SIDES OF RATED WALLS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 24" MINIMUM.

18. MAINTAIN CLEARANCES IN FRONT OF ELECTRICAL EQUIPMENT (TRANSFORMER, PANELS, ETC.) AS REQUIRED BY MANUFACTURER AND NEC CODE 110-26(A). SEE TABLE.26(A)(1). (3'-0" TO 4'-0"). MINIMUM WIDTH 30" OR SIZE OF EQUIPMENT.

19. CONTRACTOR SHALL VERIFY ELECTRICAL CHARACTERISTICS BEFORE RUNNING CONDUIT AND WIRES.

20. SEE ARCHITECTURAL DRAWINGS FOR UNDER CABINET LIGHTING AND PROVIDE NECESSARY CIRCUITS.

21. CONTRACTOR SHALL VERIFY WITH UTILITY COMPANY VOLTAGES AND UTILITY COMPANY?S SCOPE OR WORK.

22. FIRE ALARM CONTRACTOR SHALL PROVIDE, INSTALL, AND WIRE DUCT SMOKE DETECTORS. COORDINATE WITH MECHANICAL CONTRACTOR FOR LOCATION. SEE MECHANICAL DRAWINGS AND NOTES.

23. CONTRACTOR SHALL PROVIDE WIRES AND CONDUIT FROM TRANSFORMER TO ELECTRICAL ROOM. SEE SITE PLAN FOR EXACT LOCATION OF TRANSFORMER AND ELECTRICAL POWER RISER FOR WIRES AND CONDUITS SIZES.

24. CONTRACTOR SHALL PAY APPLICATION, COORDINATION, AND FEES FOR ELECTRICAL TRANSFORMER.

25. COORDINATE WITH THE ELECTRICAL UTILITY AND VERIFY LOCATION AND ORIENTATION OF SERVICE EQUIPMENT AND ASSOCIATED METERING EQUIPMENT.

26. PROVIDE AND INSTALL ALL MATERIALS DESIGNATED BY THE ELECTRICAL UTILITY TO BE FURNISHED BY "CUSTOMER". THIS MAY INCLUDE BUT NOT LIMITED TO, COMPRESSION LUGS FOR TRANSFORMER SECONDARY CONNECTION, CONCRETE PAD FOR SERRIA TRANSFORMER, GROUNDING MATERIAL, METER BASE AND EMPTY CONDUITS FOR PRIMARY LINES.

27. CONTRACTOR SHALL PROVIDE COMPLETE TELEPHONE WIRING FROM TELEPHONE OUTLETS TO TELEPHONE COMPANY?S MAIN TELEPHONE WIRES. CONTRACTOR SHALL COORDINATE THE SCOPE OF WORK WITH TELEPHONE COMPANY FOR COMPLETE OPERATION OF TELEPHONE SYSTEM.

28. THE BRANCH CIRCUIT FEEDING THE EMERGENCY LIGHT AND EXIT LIGHT (UNIT EQUIPMENT) SHALL BE THE SAME BRANCH CIRCUIT AS THAT SERVING THE NORMAL LIGHTING IN THE AREA AND CONNECTED AHEAD OF ANY LOCAL SWITCHES AS PER NEC CODE 700-12(F).
   a. EMERGENCY AND EXIT LIGHTS CONNECTED TO CIRCUITS CONTROLLED BY TIME CLOCK, OR PHOTOCELL SHALL HAVE BYPASS MEANS TO BE CONTINUOUSLY ENERGIZED WHEN CIRCUIT IS ACTIVE.
   b. CIRCUIT WITH EMERGENCY AND EXIT LIGHTS WITH NO SWITCH, TIME CLOCK OR PHOTOCELL SHALL BE PROGRAMMED TO OPERATE CONTINUOUSLY.

29. PROVIDE TWO HEAD WALL MOUNTED BATTERY EMERGENCY LIGHT AT EACH INTERMEDIATE LANDING OF STAIRWELL. AS PER NFPA-101-7.9.1.2

30. PROVIDE ON EVERY CORRIDOR A TWO HEAD BATTERY EMERGENCY LIGHT WITHIN FIFTEEN FEET OF THE END OF CORRIDOR AND MAXIMUM 28'-0 ON CENTER THROUGH THE CORRIDOR AS PER NFPA 101-7.9.1.2

31. PROVIDE TWO HEAD WALL MOUNTED BATTERY EMERGENCY LIGHT AT EACH EXIT WALKWAYS AS PER NFPA-101-7.9.1.2

32. NO PIPING, DUCT, OR EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE INSTALLED ABOVE THE ELECTRICAL PANEL BOARD, MOTOR CONTROL CENTER, OR SWITCHBOARD.

33. PROTECT PANEL BOARDS, TRANSFORMERS, ETC. AS PER NEC CODE 110-27(B).

34. CONTRACTOR SHALL SUBMIT GROUND FAULT PERFORMANCE TESTS TO BUILDING INSPECTOR AND ENGINEER.

35. PROVIDE ATTIC LIGHT IF MECHANICAL EQUIPMENT ARE INSTALLED IN ATTIC OR ABOVE CEILING.

36. PROVIDE APPLICABLE PENETRATION FIRE-STOP SYSTEM AS PER SBC SECTION 705.4.

37. LIGHTING SHALL BE CONTAINED IN CUT-OFF TYPE LUMINARIES AND SHALL BE DIRECTED IN TOWARD THE PROPERTY SO AS NOT TO REFLECT INTO ADJACENT RESIDENTIAL PROPERTIES.

38. COMBINATION HORN STROBE SHALL BE INSTALLED WITHIN 15'-0" OF THE END OF EACH CORRIDOR AND MAXIMUM OF 50'-0" ON CENTER THROUGHOUT THE CORRIDOR AS PER NATIONAL FIRE ALARM CODE SECTION 6-4.4.2.2. (MIN. 90" ABOVE FINISHED FLOOR AND BELOW THE FINISHED CEILINGS OF NOT LESS THAN 6 INCH.

39. INSTALL MANUAL PULL STATION AT EVERY FIRST FLOOR EXIT AND AT EACH DOOR OF STAIRWAY ON THE FLOORS ABOVE. ADDITIONAL MANUAL PULL STATION SHALL BE PROVIDED SO THAT TRAVEL DISTANCE TO THE NEAREST MANUAL PULL STATION SHALL NOT EXCEED OF 200 FT MEASURED HORIZONTALLY ON THE SAME FLOOR. MOUNTING HEIGHT SHALL BE NOT LESS THAN 42" AND NOT MORE THAN 54" ABOVE FINISHED FLOOR. SEE NATIONAL FIRE ALARM CODE SECTION 5-8.1.2

40. PROVIDE FIRE ALARM STROBE LIGHT IN EVERY PUBLIC REST ROOM AND OTHER GENERAL USAGE AREAS (E.G. CLASSROOMS, MEETING ROOMS), HALLWAYS, LOBBIES, AND ANY OTHER AREAS OF COMMON USE AS PER GA. ACCESSIBILITY CODE SECTION 120-3-20-.39

41. INSTALL SMOKE DETECTORS IN ALL COMMON AREAS SUCH AS LOBBIES, STORAGE ROOMS, EQUIPMENT ROOMS, BASEMENTS, ATTICS, SPACE ABOVE THE CEILINGS, CLOSETS, ELEVATOR SHAFTS, ENCLOSED STAIRWAYS, DUMBWAITER SHAFTS, AND CHUTES, AND OTHER TENANTLESS SPACES. SEE NATIONAL FIRE ALARM CODE SECTION 5-1.4.2

42. CEILING SMOKE DETECTORS SHALL BE INSTALLED IN ALL CORRIDORS. SMOKE DETECTORS SHALL BE INSTALLED WITHIN 15'-0" OF THE END OF EACH CORRIDOR AND MAXIMUM 30'-0" ON CENTER THROUGHOUT THE CORRIDOR.

43. ALL OUTLETS WITHIN SIX FEET OF ANY SINK SHALL BE GROUND FAULT PROTECTION TYPE.

44. PROVIDE POWER TO ELECTRIC OPERATED DOORS. SEE ARCHITECTURAL PLANS FOR LOCATION AND TYPE.

45. PROVIDE POWER TO GARBAGE DISPOSAL AND DISHWASHER. SEE PLUMBING AND ARCHITECTURAL PLANS.

46. DO NOT PROVIDE MORE THAN SIX DISCONNECT SWITCHED AT BUILDING SERVICE ENTRANCE.

47. PROVIDE FIRE SAFE BLANKET WRAP AROUND EACH OUTLET BOX IN FIRE RATED ASSEMBLY TO MAINTAIN ASSEMBLY FIRE RATING.

48. PROVIDE GROUND FAULT PROTECTION TYPE (GFI) RECEPTACLES AT THE FOLLOWING LOCATION:
   a. BATHROOM
   b. KITCHEN COUNTERTOP INCLUDING COMMERCIAL KITCHEN
   c. WITHIN SIX FEET OF ANY SINK
   d. GARAGE (READILY ACCESSIBLE)
   e. OUTSIDE WITH WEATHERPROOF (READILY ACCESSIBLE).
   f. ELEVATOR
   g. WET LOCATION.
   h. AS PER NEC 210-8.

49. BRANCH CIRCUIT CONDUCTORS:

   WIRES RUN OVER 100 FEET LONG SHALL BE SIZED NEXT SIZE OF WIRE SCHEDULE. THIS APPLIES TO THE ENTIRE CIRCUIT OR CIRCUITS.

50. CONTRACTOR SHALL PROVIDE ALL ELECTRICAL AND FIRE REQUIREMENTS TO ELEVATORS AND ELEVATOR MACHINE ROOM AS PER LOCAL AND STATE ELEVATOR CODE WHETHER IT IS INDICATED ON DRAWINGS OR NOT. CONTRACTOR SHALL FULLY RESPONSIBLE TO VERIFY ALL ELECTRICAL AND FIRE REQUIREMENTS WITH THE LOCAL AND STATE ELEVATOR CODE.

51. DO NOT INSTALL ANY ELECTRICAL EQUIPMENT IN CORROSIVE ENVIRONMENT.

52. ELECTRIC ROOM WITH 800AMP AND GREATER SHALL HAVE PANIC DOOR HARDWARE.

53. EMERGENCY POWER EQUIPMENT SHALL BE LOCATED IN A SEPARATE TWO HOUR RATED ROOM AS PER NFPA-110-7.2.1.1

54. FEEDER DISCONNECT RATED 1000 AMPS OR MORE AND INSTALLED SOLIDITY GROUNDED WYE ELECTRICAL SYSTEMS OF MORE THAN 150 VOLTS TO GROUND, BUT NOT EXCEEDING 600 VOLTS PHASE TO PHASE, SHALL BE PROVIDED WITH GROUND FAULT PROTECTION OF EQUIPMENT IN ACCORDANCE WITH THE PROVISIONS OF 230-95. SEE ARTICLE 215.10

55. ALL DISCONNECTING SWITCHES SHALL BE IDENTIFIED AS PER NEC CODE SECTION 110.22.

56. TYPE NM, NMC, AND NMS CABLE IS NOT PERMITTED AT EXPOSED IN DROPPED OR SUSPENDED CEILING AS PER NEC ARTICLE 334.12-A-1

57. ELECTRICAL ROOM AND UPS ROOM SHALL HAVE 1 CFM/SQ. FT VENTILATION WITHOUT TRANSFORMER OR (1 TO 2% OF KVA HEAT LOSS) 3 CFM/KVA FOR TRANSFORMER. MAINTAIN 86 DEGREE IF POSSIBLE. (UPS=77 DEGREE F).

58. CHECK SEISMIC ANCORAGE REQUIREMENTS.

59. ELECTRIC ROOM SHALL HAVE MINIMUM 30 FC AND EMERGENCY LIGHT SHALL 1 FOOTCANDLE LIGHT LEVEL.

60. NO BATHROOM OR WATER DRAINAGE ABOVE THE ELECTRICAL ROOM.

61. LAY-IN LIGHT FIXTURES SHALL BE SUPPORTED WITH FOUR WIRE HANGERS INDEPENDENT OF THE CEILING GRID SYSTEM AND SECURED TO THE GRID SYSTEM.

62. CONTRACTOR SHALL VERIFY THE TYPE OF THE LIGHT FIXTURES AGAINST THE CEILING BEFORE BIDDING THE PROJECT.

63. ALL LIGHT FIXTURES SHALL BE AIR-LOCK TYPE. ALL LIGHT FIXTURES SHALL BE IC RATED.

64. ALL EXTERIOR LIGHT FIXTURES SHALL BE CORROSION RESISTANCE (SPECIAL COATING FOR COAST AREA) AND WET LABEL TYPE.

65. MOTORS HAVE REDUCED VOLTAGE STARTER.

66. DISCONNECT SWITCH SHALL BE INSTALLED AS PER NEC 404.8(A). ALL SWITCHES AND BREAKERS USED AS SWITCHES SHALL BE LOCATED SO THAT THEY MAY BE OPERATED FROM READILY ACCESSIBLE PLACE. THEY SHALL BE INSTALLED SUCH THAT THE CENTER OF THE GRIP OF THE OPERATING HANDLE OF THE SWITCH OR CIRCUIT BREAKER, WHEN IN THE HIGHEST POSITION, IS NOT MORE THAN 6'-7" ABOVE THE FLOOR OR WORKING PLATFORM.

67. AUTOMATIC TRANSFER SWITCH AND EMERGENCY PANELS SHALL BE LOCATED IN ONE HOUR RATED ROOM OR FULLY FIRE SPRINKLER SYSTEM BUILDING AS PER NEC 700.10(D-2)

68. EMERGENCY GENERATOR REQUIREMENTS:
   a. WEATHER PROOF ENCLOSURE.
   b. EPA CERTIFICATION. (Only operates when the utility has failed)
   c. noload certification.
   d. LOAD BANKING IS REQUIRED ON STARTING.
   e. MEET NFPA-100 LIFE SAFETY CODE
   f. NEMA 3R ENCLOSURE
   g. 4-POLES SWITCH
   h. DBA RATING AT 7 METERS
   i. Sound attenuation housing
   j. Block heater and battery charger
   k. Remote annunciator and estop.

OCCUPANCY SENSOR NOTES:

A. ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER?S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.

B. CEILING MOUNTED SENSORS LOCATED OVER DOORWAYS SHOULD PLACED ONE FOOT INSIDE THRESHOLD.

C. ULTRASONICE CEILING MOUNTED SENSORS SHOULD BE LOCATED A MINIMUM OF SIX FEET FROM HVAC SUPPLY /RETURN VENTS.

D. THOUGH MOUNTED, PENDANT MOUNTED, AND PENDANT MOUNTED INDIRECT LIGHTING SOURCES AFFECT THE OPERATION OF LOCALLY MOUNTED SENSORS. CONTRACOTR IS RESPONSIBLE FOR ADJUSTING SENSOR LOCATIONS TO ALLOW FOR PROPER OPERATION.

E. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTING FOR NON-ADAPTIVE PRODUCTS, FOLLOWING THE MANUFACTURER?S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.

F. CONTRACTOR IS RESPONSIBLE FOR ORDERING THE APPOPRIATE SENSOR.

G. CONTRACTOR IS RESPONSIBLE FOR RELATED CIRCUIT CONTROL EQUIPMENT. THIS INCLUDES, NOT LIMITED TO, LAOD CONTROL, SWITCHING/CONTROL STATIONS, ATC, FACILITY-WIDE CONTROL INTEGRATION, EVENT SCHEDULING, BAS.BMS INTEGRATION.

H. PHOTOCELLS MUST BE PLACED WITHIN DAYLIGHTING ZONE AS DEFINED BY LOCAL CODE.

ELECTRICAL SPECIFICATIONS

I. GENERAL

A. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND NECESSARY ITEMS AND OBTAIN AND PAY FOR ALL FEES AND PERMITS REQUIRED TO INSTALL A COMPLETE ELECTRICAL SYSTEM.

B. IT IS THE INTENT OF THESE PLANS TO PROVIDE A COMPLETE ELECTRICAL SYSTEM, REGARDLESS OF WHETHER EACH INDIVIDUAL COMPONENT IS MENTIONED OR NOT.

C. THE WORK SHALL COMPLY WITH THE STANDARDS OF THE FOLLOWING CODES AND ORDINANCES:
   1. NFPA NO. 70, ?NATIONAL ELECTRIC CODE,?LATEST ED.
   2. NECA ?STANDARD OF INSTALLATION?
   3. THE ELECTRICAL UTILITY COMPANY SERVICE STANDARDS
   4. UNDERWRITER?S LABORATORY STANDARDS
   5. OTHER LOCAL CODES, ORDINANCES AND LAWS APPLICABLE TO THE LOCATION OF THIS PROJECT.

D. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH TELEPHONE SYSTEM, CABLE TV, MECHANICAL AND SECURITY SYSTEM INSTALLATIONS.

II. MATERIALS AND WORKMANSHIP:

A. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR TIMELY PLACEMENT OF ALL CONDUITS, OUTLET BOXES, CABINETS, AND OTHER WIRING DEVICES IN FLOORS, WALLS, CEILINGS, ETC. AS THE CONSTRUCTION PROGRESSES.

B. OUTLET BOXES SHALL BE LOCATED AS FOLLOWS:
   1. WALL SWITCHES - 4'-0?ABOVE FINISH FLOOR (CENTER).
   2. CONVENIENCE OUTLETS - 16" A.F.F. (CENTER)
   3. EQUIPMENT OUTLETS AS REQUIRED (VERIFY)

C. WIRING SYSTEM SHALL BE AS FOLLOWS:
   1. RIGID CONDUIT-GALVANIZED STEEL OR RIGID ALUMINUM AS PERMITTED BY N. E. C.
   2. EMT- ELECTRIC METALLIC TUBING CONDUIT MAY BE USED ONLY WHERE IT IS NOT SUBJECT TO MECHANICAL DAMAGE AND WHERE PERMITTED BY THE N. E. C. AND LOCAL CODES.
   3. FLEXIBLE METAL TUBING - TO BE USED AT CONNECTIONS WHERE REQUIRED. CONNECTIONS SHALL BE MADE WITH GROUND. ALL SUCH CONNECTIONS SHALL BE LIQUID TIGHT.
   4. UNDERGROUND CIRCUIT SHALL BE SCHEDULE 40 PVC.

D. CONDUCTORS SHALL BE COPPER, TYPE THWN/THHN.

E. CONVENIENCE RECEPTACLES SHALL BE 15 (20)AMP., 125 VOLT NEMA 5-15(20)R.

F. WALL SWITCHES SHALL BE 20 AMP. 120/277 V. AC, SINGLE POLE OR AS INDICATED ON THE DRAWING.

G. PANELBOARDS SHALL BE BY SQUARE D, SIEMENS, OR GENERAL ELECTRIC.

H. GROUNDING OF ELECTRICAL SYSTEMS SHALL BE IN ACCORDANCE WITH THE NEC AND LOCAL REQUIREMENTS.

I. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ITEMS SHOWN AS PART OF THE GENERAL CONTRACT WHICH REQUIRE ELECTRICITY-INCLUDING ALL SIGNAGE, BUILDING LIGHTING, AND CONTROL WIRING.

J. FUSES SHALL BE DUEL-ELEMENT CURRENT LIMITING FUSES IN ALL DISCONNECT SWITCHES OR OTHER FUSIBLE DEVICES. FURNISH A SPARE FUSE OF EACH TYPE USED ON THE JOB.

K. ELECTRICAL CONTRACTOR SHALL INSTALL AND CONNECT MOTOR STARTERS, RELAYS, SWITCHES, AND RELATED ITEMS WHICH ARE SUPPLIED BY OTHERS.

L. ALL MATERIAL SHALL BE NEW AND U.L APPROVED AND LABELED.

M. ALL ELECTRICAL EQUIPMENT AND SYSTEMS SHALL BE TESTED AND ADJUSTED FOR PROPER OPERATION. COMPLETE WIRING SYSTEM SHALL BE FREE OF SHORT CIRCUITS.

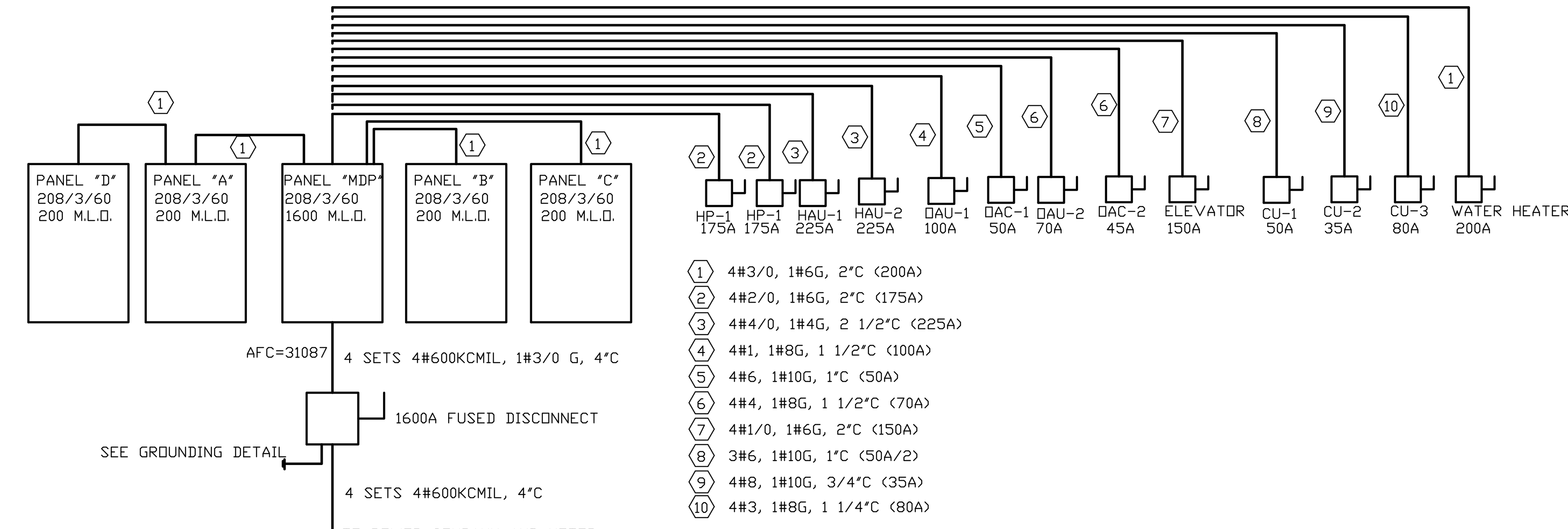
N. CONTRACTOR SHALL MAKE COMPLETE CONNECTIONS TO ALL EQUIPMENT. COORDINATE WITH EQUIPMENT SUPPLIER FOR EXACT LOCATIONS AND REQUIREMENTS.

O. RUN 3/4"C W/PULL WIRE FROM TV, TELEPHONE AND DATA OUTLETS TO COMPUTER ROOM.

P. RUN 2-2"PVC CONDUITS W/PULL WIRE TO PROPERTY LINE FOR TELEPHONE. COORDINATE W/TELEPHONE UTILITY.

Q. RUN 1 ½" PVC PULL WIRE TO PROPERTY LINE FOR TV CABLE. COORDINATE W/CABLE SUPPLIER.

R. CONTRACTOR MUST SUBMIT EQUIPMENT DATA FOR APPROVAL TO ENGINEER.



ELECTRICAL POWER RISER

NO SCALE

AIC IS BASE ON 5.75 IMPEDANCE OF SECONDARY, 50'-0" MINIMUM DISTANCE BETWEEN TRANSFORMER AND DISCONNECT

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WHITFIELD COUNTY GYM PRINTED DATE: 09/16/20

Sep 16 2020 | C:\2020-020whitfield gym\2020-020E1.dwg

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CONSULTANTS

Date Plotted : Sep 16, 2020 - 7:38pm
file: 2020-020E1.DWG

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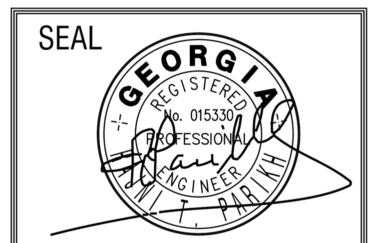
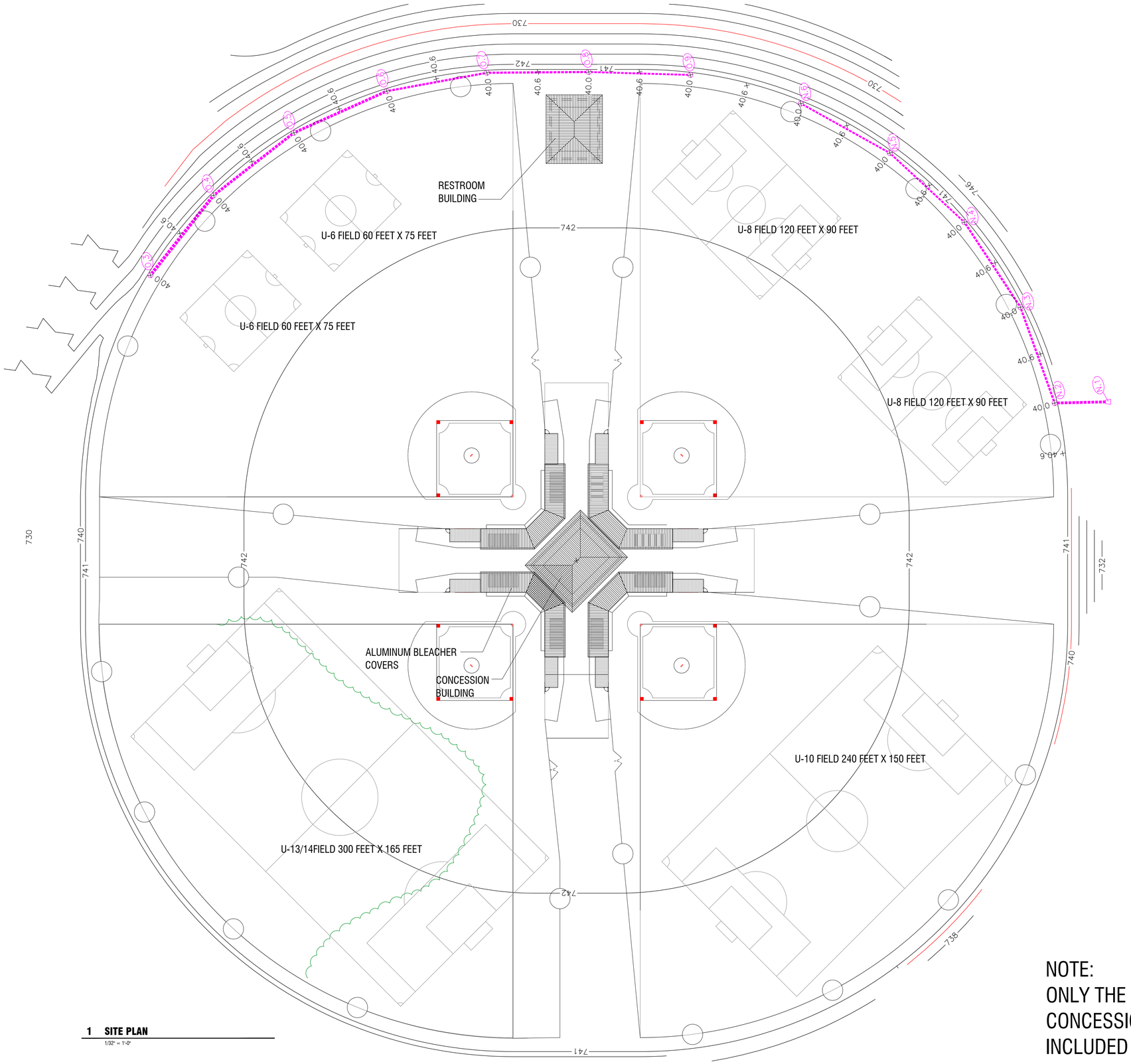


WHITFIELD COUNTY RIVERBEND PARK COMMUNITY CENTER
DALTON, GEORGIA

SHEET TITLE:
POWER RISER
ELECTRICAL GENERAL NOTES

PRINTED:

NUMBER: E-8



1 SITE PLAN
1/32" = 1'-0"

NOTE:
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FAYETTE CO. ANIMAL SHELTER PRINTED DATE: 10/14/20

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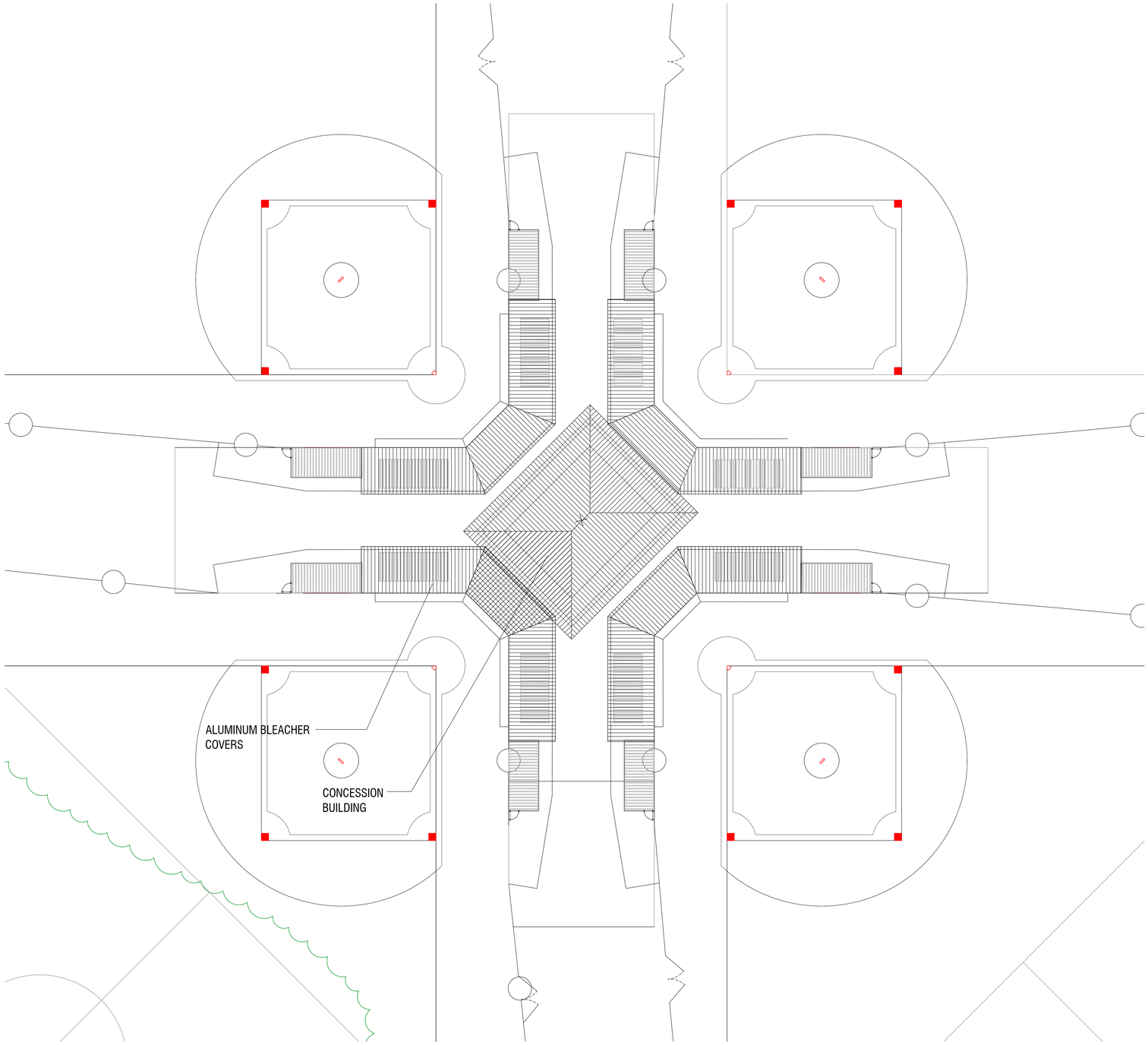
SEAL
STATE OF GEORGIA
BENJAMIN MERCER LANIER
CERTIFICATE NO. 000
REGISTERED ARCHITECT

WHITFIELD COUNTY RIVERBEND PARK CONCESSION STAND
DALTON, GA

SHEET TITLE:
SITE PLAN

PRINTED:

NUMBER:
C-101



1 CONCESSION AND BLEACHER LAYOUT

1/16" = 1'-0"

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WHITFIELD COUNTY RIVERBEND PARK CONCESSION STAND
DALTON, GA

SHEET TITLE:
ENLARGED SITE PLAN

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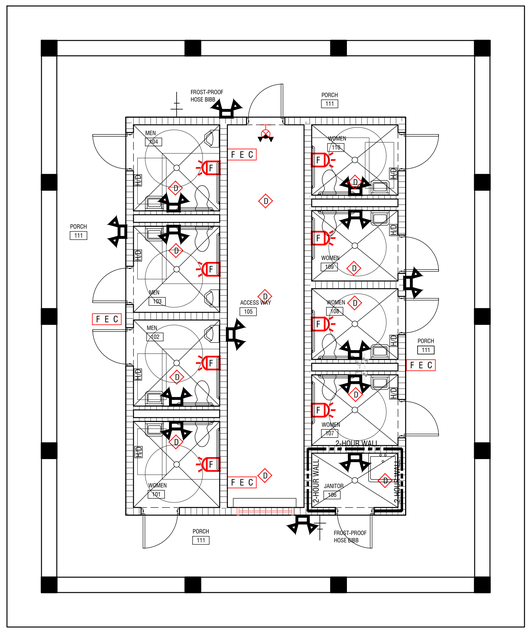
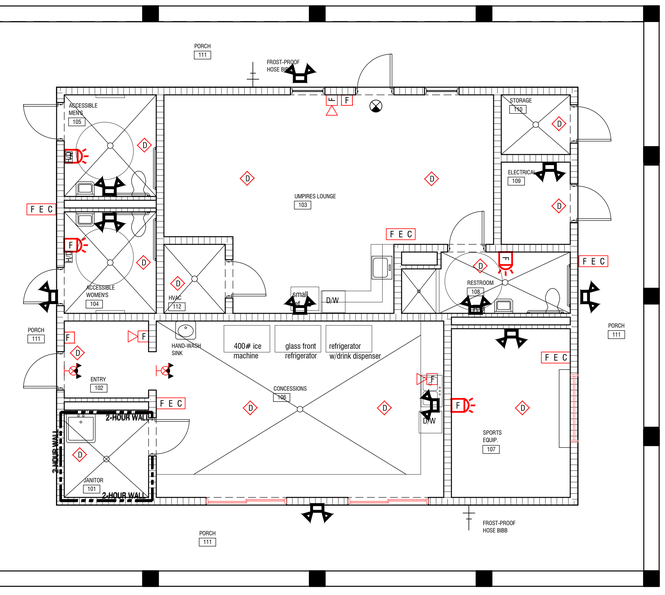
C-102



1 RESTROOM LIFE SAFETY PLAN

3/16" = 1'-0"

F	FIRE ALARM PULL STATION
F	COMBINATION ALARM HORN/STROBE, 6'-8" AFF
F	STROBE ALARM, 6'-8" AFF
D	CEILING MOUNTED SYSTEM SMOKE DETECTOR
F E C	FIRE EXTINGUISHER CABINET
EMERGENCY/EXIT	
(SHADED QUADRANT INDICATES DIRECTION OF FACE FOR EXIT LIGHTS)	
	SINGLE FACE EXIT LIGHT (CEILING OR PENDANT MOUNTED)
	SINGLE FACE EXIT LIGHT (WALL MOUNTED)
	DOUBLE FACE EXIT LIGHT (CEILING OR PENDANT MOUNTED)
	DOUBLE FACE EXIT LIGHT (WALL MOUNTED)
	ARROWS TO INDICATE DIRECTION OF EXIT TRAVEL
	BATTERY OPERATED EMERGENCY LIGHT W/TWO HEADS (WALL MOUNTED)
	BATTERY OPERATED EMERGENCY LIGHT W/TWO HEADS (RECESSED)
	REMOTE MOUNTED EMERGENCY HEAD
	COMBINATION LED EXIT LIGHT & BATTERY LIGHT
	COMBINATION LED EXIT LIGHT & BATTERY LIGHT



2 CONCESSIONS STAND LIFE SAFETY PLAN

3/16" = 1'-0"

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WHITFIELD COUNTY RIVERBEND PARK CONCESSION STAND
DALTON, GA

SHEET TITLE:
LIFE SAFETY PLAN

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NUMBER:
LS-001

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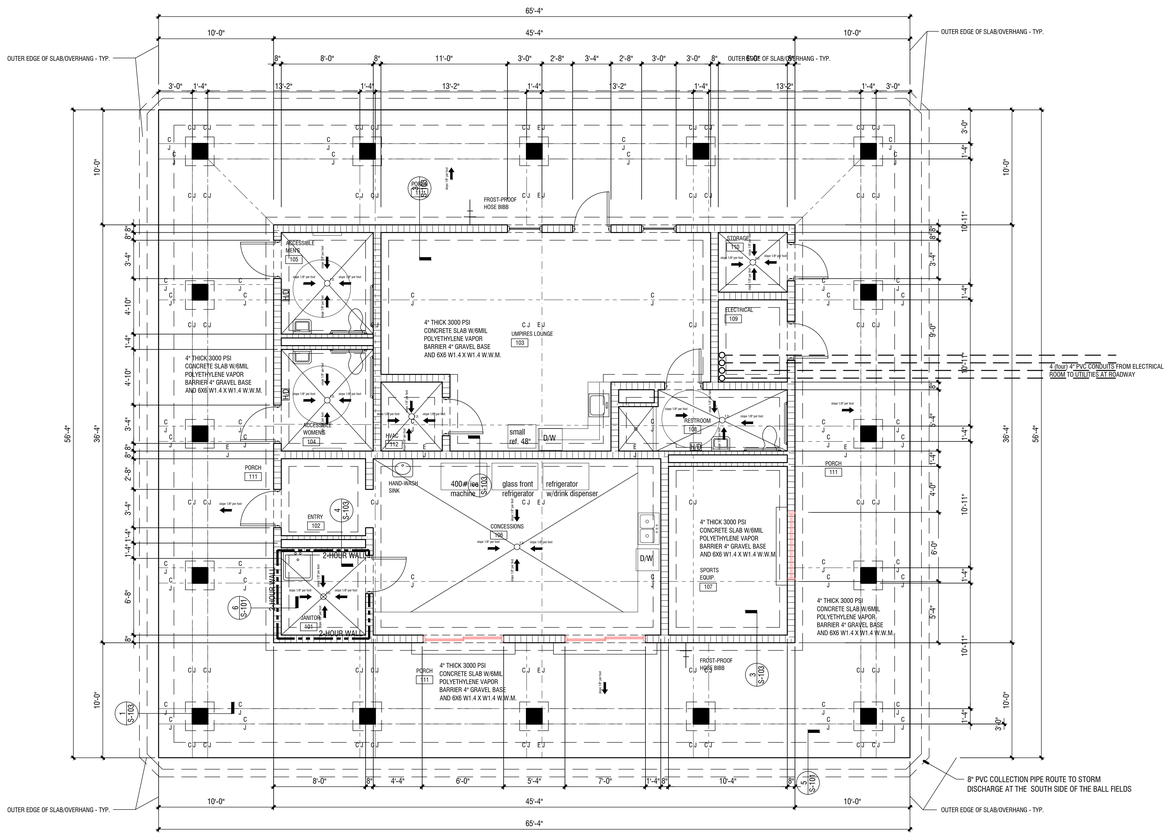
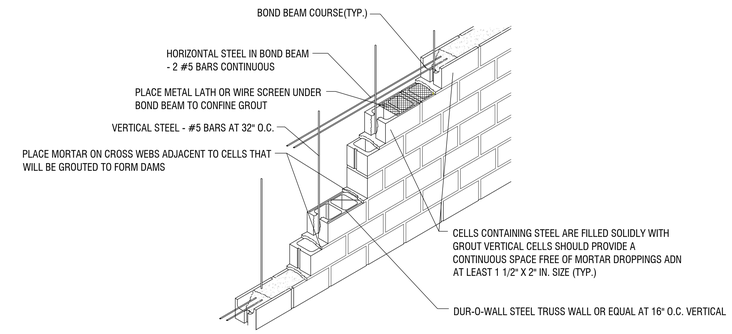
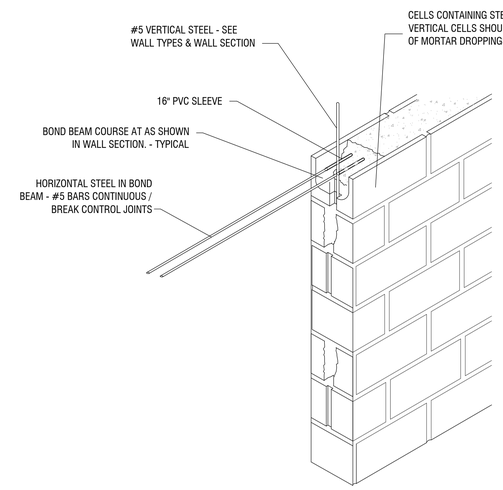


1 CONCESSION STAND FOUNDATION PLAN

3/16" = 1'-0"





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WHITFIELD COUNTY RIVERBEND PARK CONCESSION STAND

DALTON, GA

SHEET TITLE: CONCESSIONS FOUNDATION PLAN

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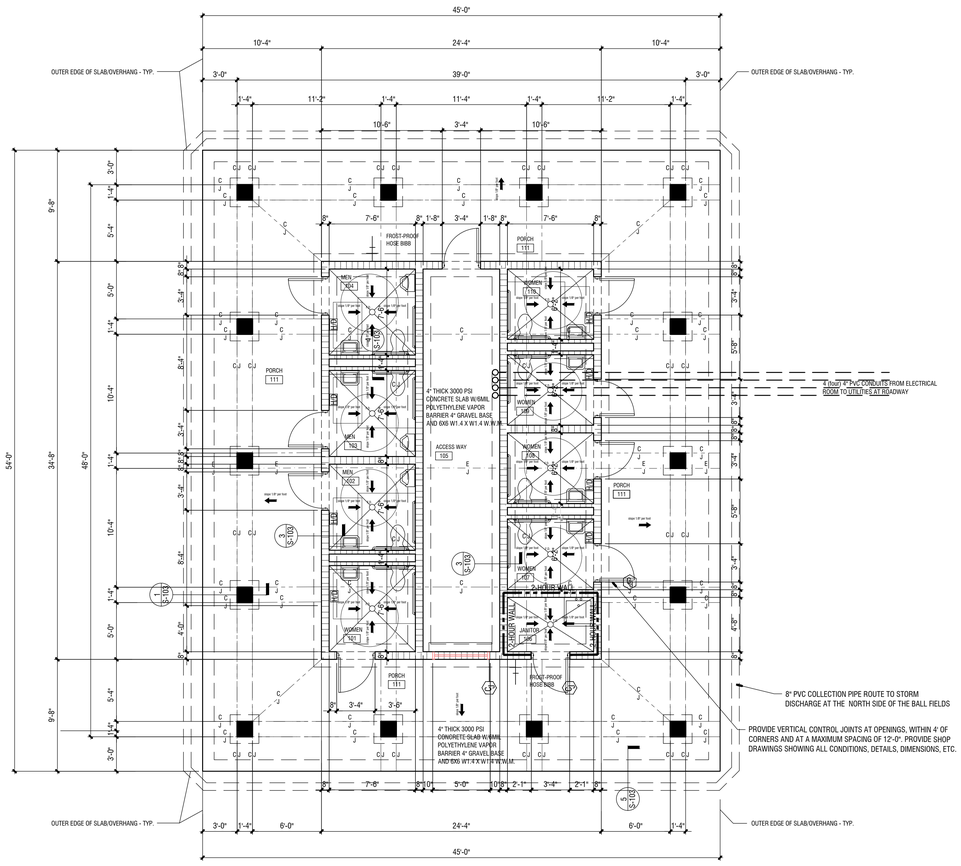
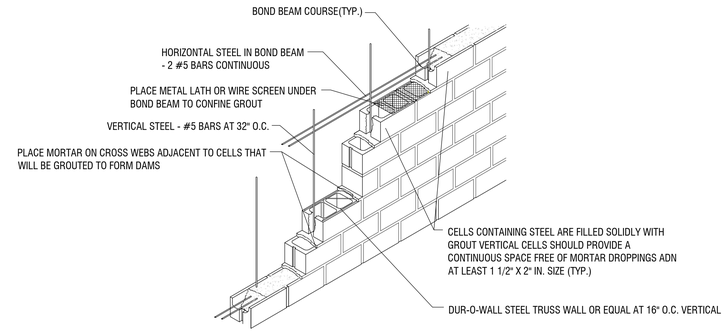
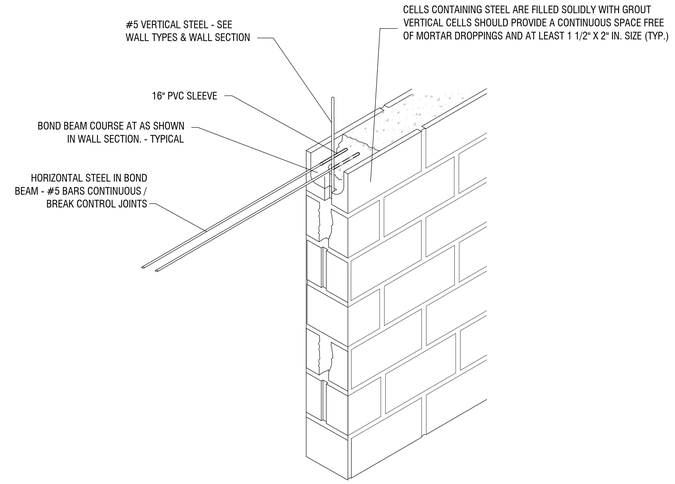
NUMBER: S-101



1 RESTROOMS FOUNDATION PLAN

3/16" = 1'-0"





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CERTIFICATE NO. 0[illegible]
REGISTERED ARCHITECT

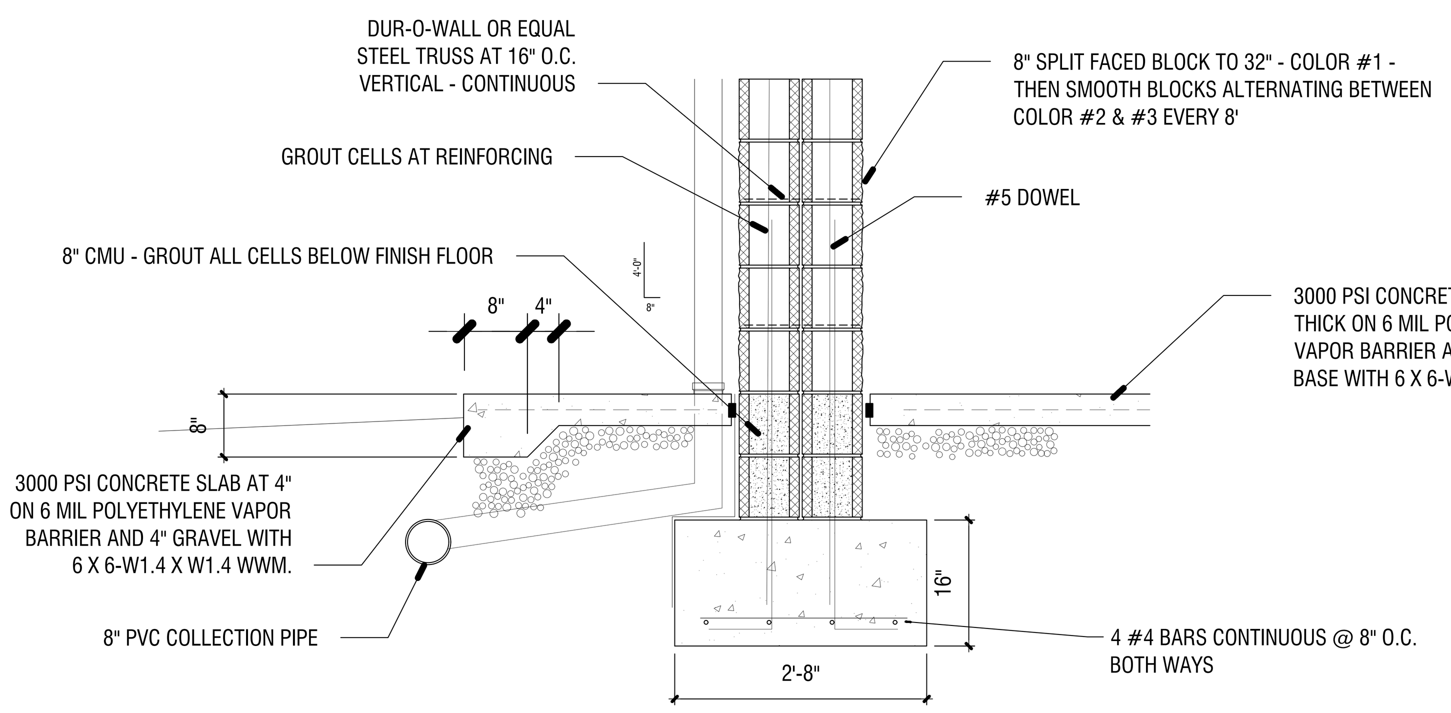
WHITFIELD COUNTY RIVERBEND PARK CONCESSION STAND

DALTON, GA

SHEET TITLE: RESTROOM FOUNDATION PLAN

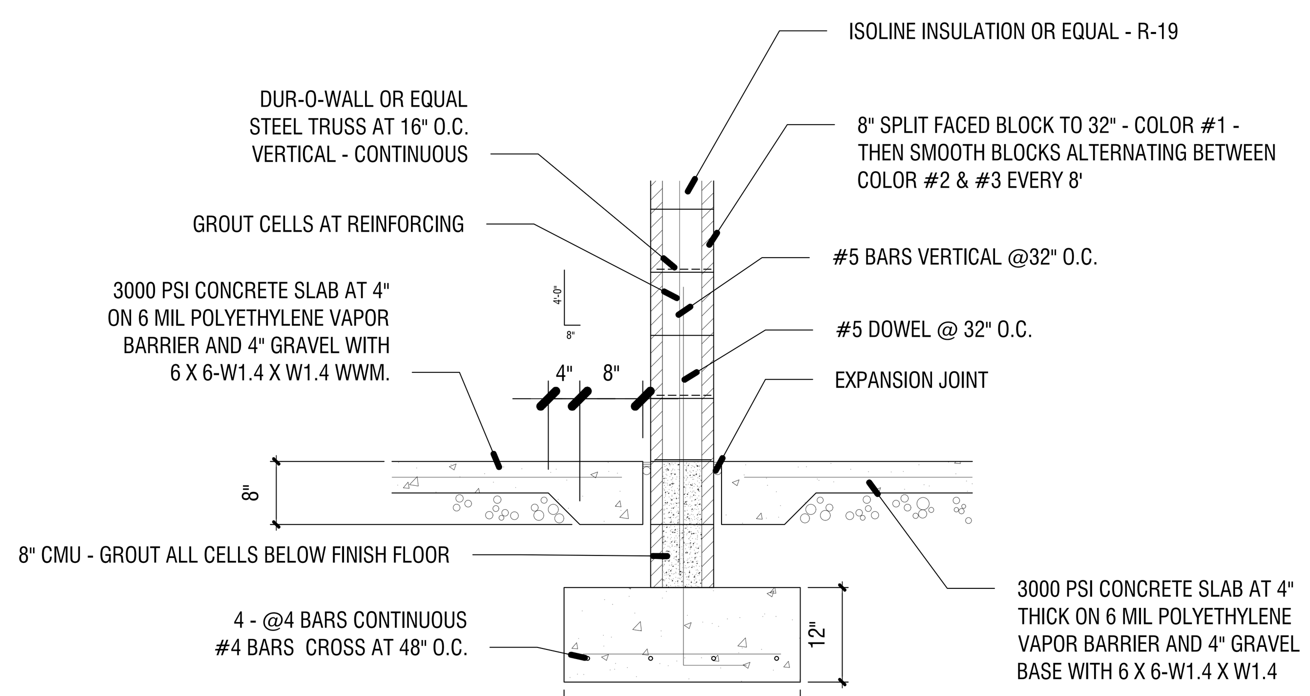
PRINTED:

NUMBER: S-102



1 COLUMN AND FOOTER

3/4" = 1'-0"



2 EXTERIOR WALL WITH FOOTER B

3/4" = 1'-0"

STRUCTURAL NOTES

GENERAL:

A. THE FOLLOWING NOTES APPLY TO ALL STRUCTURAL DRAWINGS.

B. ALL DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE 2015 EDITION, GEORGIA AMENDMENTS.

C. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL DRAWINGS.

D. THE STRUCTURE SHOWN ON THESE DRAWINGS IS SELF-SUPPORTING ONLY IN ITS COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE DESIGN, ADEQUACY, SAFETY, AND STABILITY OF ALL TEMPORARY ERECTION BRACING AND SHORING.

E. THE GENERAL CONTRACTOR SHALL COORDINATE ALL SIZES AND LOCATIONS OF ROOF PENETRATIONS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. ALL PENETRATIONS THROUGH ROOF DECK GREATER THAN 12" SQUARE SHALL BE FRAMED AS PER INDUSTRY STANDARDS AND WILL BE SHOWN FOR VERIFICATION IN SHOP DRAWINGS.

F. UNLESS NOTED, ELEVATIONS SHOWN ARE TO BE VERIFIED WITH ELEVATION MARKS OF ARCHITECTURAL DRAWINGS.

G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION IN ORDER TO COMPLY WITH THE CONTRACT DRAWINGS.

SHOP DRAWINGS:

A. THE CONTRACTOR SHALL SUBMIT, AS REQUIRED, PRINTS OF SHOP DRAWINGS FOR ALL FABRICATED MATERIALS TO ARCHITECT FOR REVIEW.

B. REVIEW OF SHOP DRAWINGS BY THE ARCHITECT\ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF THOSE SHOP DRAWINGS.

C. SHOP DRAWINGS REQUIRING A SPECIAL ENGINEERING DESIGN BY THE FABRICATOR SHALL BE STAMPED BY A REGISTERED ENGINEER OF RECORD IN THE STATE WHICH CONSTRUCTION WILL OCCUR BEFORE SUBMITTING FOR REVIEW BY THE ARCHITECT\ENGINEER

SHALLOW FOUNDATIONS:

A. DESIGN SOIL BEARING PRESSURE IS 1500 PSF.

B. THE SITE SHALL BE PREPARED UNIFORM IN ACCORDANCE WITH CIVIL DRAWINGS & SPECIFICATIONS, A QUALIFIED GEOTECHNICAL ENGINEER SHALL VERIFY ALL COMPACTION AND BEARING CONDITIONS AND REPORT TO THE ARCHITECT\ENGINEER ANY VARIATIONS.

C. ALL EXCAVATIONS AND BUILDING PADS SHALL BE INSPECTED BY A QUALIFIED GEOTECHNICAL ENGINEER TO VERIFY THE DESIGN ASSUMPTIONS AND REPORT ADVERSE CONDITIONS.

D. WHERE FILL IS REQUIRED, IT SHALL BE PLACED IN ACCORDANCE WITH INSTRUCTIONS OF A QUALIFIED GEOTECHNICAL ENGINEER TO MAINTAIN DESIGN BEARING PRESSURE.

E. FOOTING ELEVATIONS GIVEN ARE FOR THE PURPOSE OF DESIGN. SOIL BELOW FOOTING NOT MEETING DESIGN BEARING PRESSURE SHALL BE EXCAVATED TO A DEPTH OF VERIFIABLE DESIGN PRESSURE AND BACKFILLED WITH 57 STONE TO A LEVEL OF FOUNDATION BEARING. THIS SHALL BE UNDER SUPERVISION OF A QUALIFIED GEOTECHNICAL ENGINEER.

F. F/S DENOTES STEP IN FOOTING. SEE "TYPICAL STEPPED FOOTING" DETAIL.

CONCRETE:

A. ALL CONCRETE DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318-95 AND ACI 301-96.

B. CEMENT SHALL BE TYPE I OR III CONFORMING TO ASTM C 150 AND CONCRETE SHALL DEVELOP A MINIMUM 28 DAY COMPRESSIVE STRENGTH AS FOLLOWS:
FOOTINGS 3000 PSI
INTERIOR SLAB-ON- GRADE 3000 PSI

C. TEST CYLINDERS SHALL BE TAKEN AS A REPRESENTATIVE SAMPLE OF CONCRETE PLACED IN THE AMOUNT 75 CUBIC YARD OR EVERY 24-HOUR PERIOD. RESULTS SHALL BE AVAILABLE AT JOB SITE.

D . TEST RESULTS SHALL BE FORWARDED TO THE ARCHITECT\ENGINEER UNLESS OTHERWISE NOTED, NORMAL WEIGHT CONCRETE (145 PCF) SHALL BE USED WITH 3/4 " MAX. COARSE AGGREGATE CONFORMING TO ASTM C 33.
(ROOF DECK TO BE LIGHT WEIGHT 115 PCF MAX.)

E. CONCRETE SLUMP SHALL BE 3" - 5" (MAX) FOR REGULAR MIX WITH SUPERPLASTICIZER ADMIXTURES INCREASING SLUMP TO 8" (MAX) CONCRETE AIR-ENTRAINMENT SHALL BE 4.5% TO 7.5% FOR EXTERIOR SLABS AND 0% TO 3% FOR INTERIOR SLABS.

F. UNLESS OTHERWISE NOTED, CONCRETE COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

CONCRETE CAST AGAINST EARTH 3"
FORMED CONCRETE EXPOSED TO EARTH OR WEATHER 2"
INTERIOR SLABS 1"
EXPOSED WALLS 1 1/2"

G. NO ADDITIONAL WATER SHALL BE ADDED TO THE CONCRETE AT THE JOB SITE.

DESIGN LOADS:

A. DESIGN ROOF DEAD LOAD:
1. 20 PSF

B. DESIGN ROOF LIVE LOAD:
1. 20 PSF
2. 30 PSF AT HVAC UNIT SUPPORT.
3. REDUCTIONS APPLIED PER TRIBUTARY
4. AREA AS PERMITTED BY CODE,

C. OMITTED

D. DESIGN FLOOR LIVE LOAD:
1. 125 PSF SLAB-ON-GRADE

E. DESIGN SNOW LOAD:
1. GROUND SNOW LOAD, PG = 5 PSF

F. DESIGN WIND LOAD:
1. BASIC WIND SPEED (3 SECONDS GUST): 90 MPH
2. WIND IMPORTANCE FACTOR, 1w = 1.0
3. BUILDING CATEGORY: 1
4. WIND EXPOSURE CATEGORY: B
5. COMPONENTS AND CLADDING WIND PRESSURE: EDGE ZONE: -25, +20 PSF, INTERIOR ZONE: -21, +20 PSF

G. DESIGN SEISMIC INFORMATION
1. SEISMIC USE GROUP: 1.
2. SPECTRAL RESPONSE COEFFICIENT, SD = 0.40
3. SPECTRAL RESPONSE COEFFICIENT, SD1 = 0.19
4. SITE CLASS: D
5. BASE SEISMIC- FORCE RESISTING SYSTEM: SHEER WALL
6. DESIGN BASE SHEAR:
7. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE (1617.4)
8. DESIGN CATEGORY = C
9. SOIL TYPE S = 2.0
10. REPONSE FACTOR R = 3.5
11. APLIFICATION FACTOR Cd = 2.25

GROUT AND MORTAR:

A. GROUT UNDER BEARING PLATES SHALL BE NON-SHRINK SIKAGROUT 212 (OR APPROVED EQUAL), MIXING AND PLACEMENT SHALL BE IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

SLABS:

A. C.J. DENOTES CONCRETE SLAB "CONTROL JOINT" WHICH SHALL BE CUT INTO THE SLABS AT A DEPTH OF 1/4 TIMES THE THICKNESS OF THE SLAB WITHIN 12 HOURS OF PLACING THE CONCRETE. MAXIMUM SPACING OF INTERIOR SLAB CONTROL JOINTS, UNLESS OTHERWISE NOTED, SHALL BE 20'-0" (MAX) IN EACH DIRECTION.

B. SLAB CONSTRUCTION JOINTS SHALL BE USED IN PLACE OF CONTROL JOINTS WHERE NEEDED TO INTERRUPT A CONTINUOUS POUR. SLAB CONSTRUCTION JOINTS SHALL BE KEYED. JOINT LOCATIONS SHALL BE REVIEWED BY ARCHITECT.

C. PLACEMENT OF WELDED WIRE MESH IN SLAB, WHERE SPECIFIED, SHALL BE AT A CONSISTENT DEPTH OF 1"-2" FORM T\SLAB OVERLAP EACH REINFORCING SHEET TWO FULL PANELS AND TIE CROSS WIRES ON EACH SIDE.

D. REFER TO ARCHITECTURAL\MECHANICAL FOR SLAB FINISHES, SLAB DEPRESSIONS, ELEVATIONS, AND ENCASED OR EMBEDDED ITEMS.

E. PLUMBING AND ELECTRICAL CONDUITS SHALL BE PLACED BELOW THE SLAB AND NOT WITHIN THE SLAB. VERTICAL PENETRATIONS ARE ALLOWED.

F. COLUMN BOX-OUTS SHALL BE USED TO ISOLATE AN ADEQUATE AREA AROUND COLUMN BASE PLATES TO PROVIDE FOR COLUMN PLACEMENT AND LEVELING. BOX-OUTS ARE TO BE CLEAN AND FREE OF DEBRIS TO TOP OF FOOTING PRIOR TO FILLING WITH CONCRETE.

REINFORCING STEEL:

A. REINFORCING STEEL AND ACCESSORIES SHALL BE DETAILED IN ACCORDANCE WITH ACI (MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES AND CRSI (MANUAL OF STANDARD PRACTICE) LATEST EDITIONS.

B. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60 (UNLESS NOTED)

C. ALL TENSION SPLICES , INCLUDING SPLICES FROM BARS LABELED CONTINUOUS , SHALL BE CLASS "B" AND COFORM TO ACI 318-95.

D. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 AND BE LAPPED TWO FULL PANELS AND TIED ON EACH OTHER.

E. LONGITUDINAL REINFORCING BARS IN FOOTINGS SHALL BE PLACED CONTINUOUS AT CORNERS AND INTERSECTIONS.

F. FOR EVERY VERTICAL OR HORIZONTAL BAR DISCONTINUED BY AN OPENING, ONE BAR (MIN. OF 2 BARS) SHALL BE ADDED AT SIDE OF OPENING (HALF TO EACH SIDE - TYPICAL) .

G. SUBMIT REINFORCING STEEL SHOP DRAWINGS.

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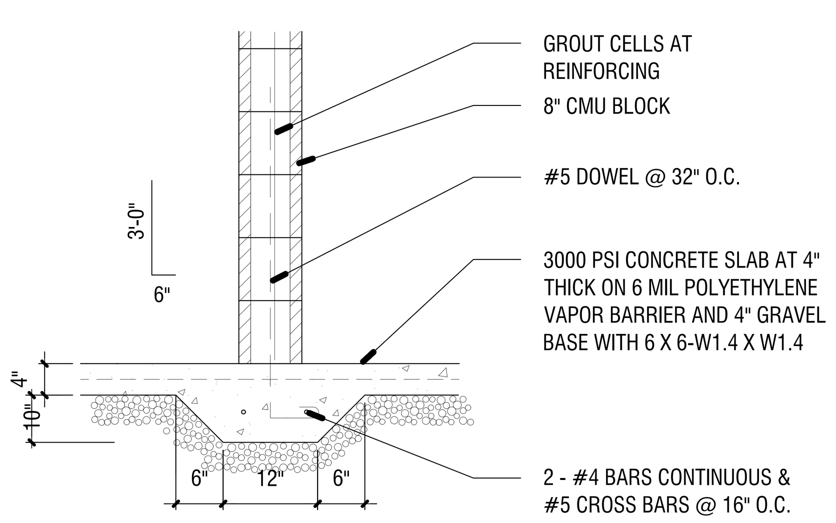
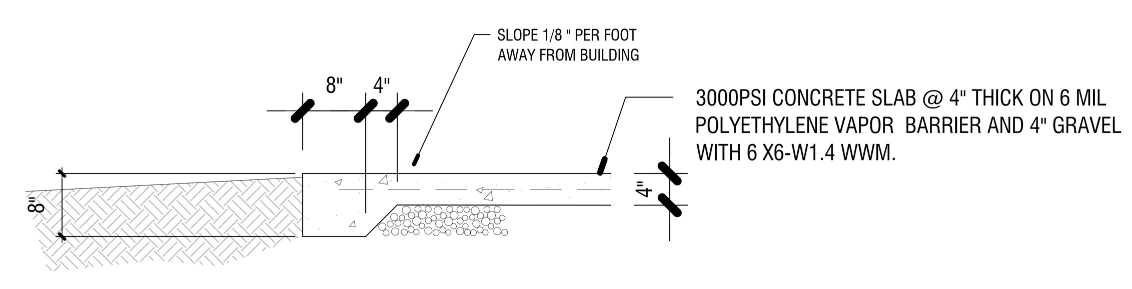


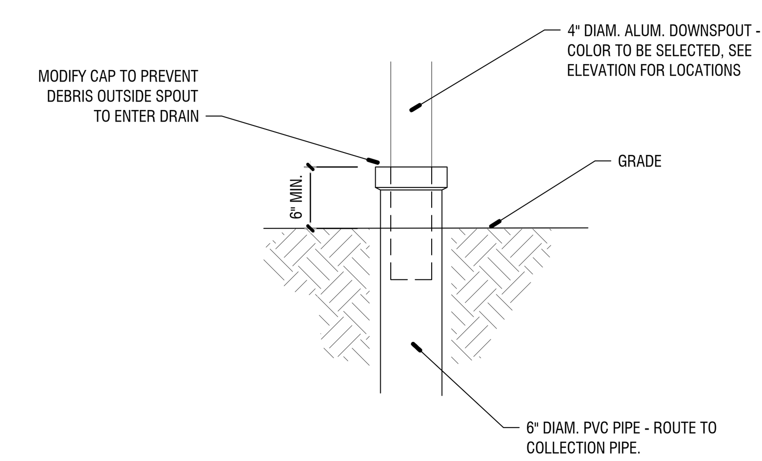
3 INTERIOR WALL SECTION

3/4" = 1'-0"



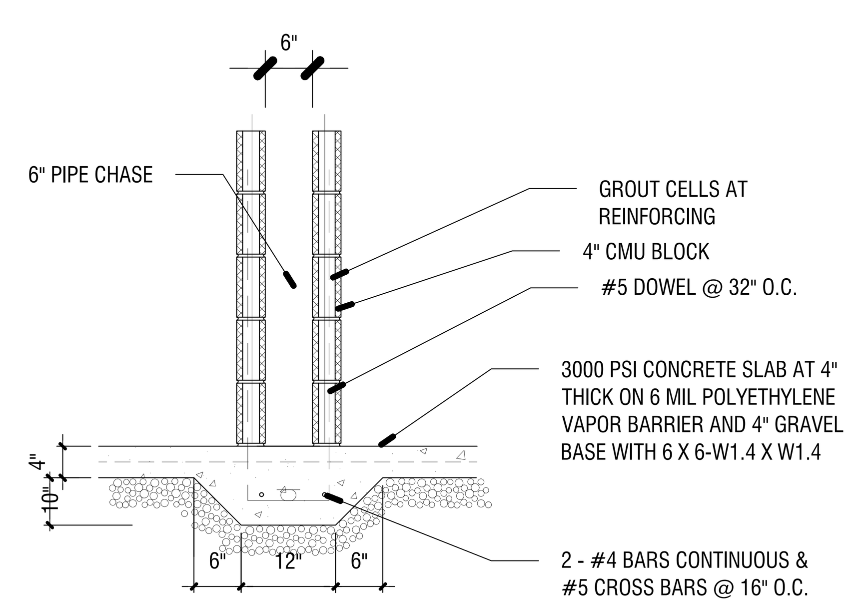
5 THICKEN SLAB DETAIL

3/4" = 1'-0"



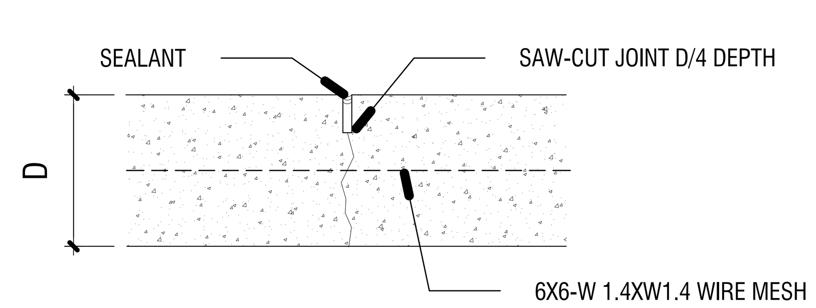
9 DOWNSPOUT DRAIN THROUGH SLAB

3/4" = 1'-0"



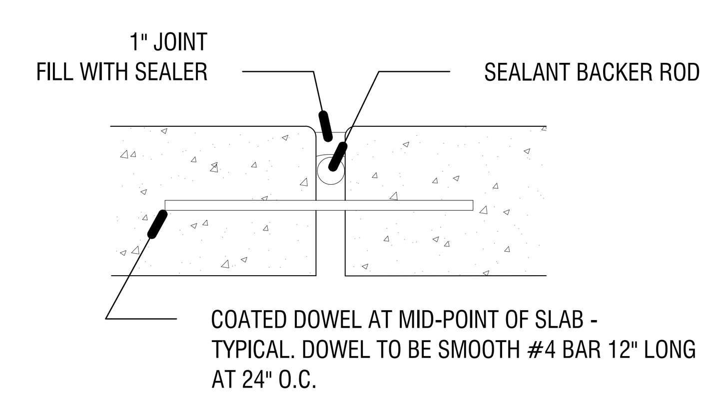
4 INTERIOR WALL WITH PIPE CHASE

3/4" = 1'-0"



7 CONTROL JOINT DETAIL

3/8" = 1'-0"



8 EXPANSION AND CONTROL JOINT NOTES

1/4" = 1'-0"

NOTE:
1. EXPANSION JOINT TO BE FORMED FROM THE POURING OF TWO DIFFERENT CONCRETE POURS.
2. APPLY BLOCK FILLER AND PRIME AND PAINT TO ALL INTERIOR CONCRETE BLOCK. COLORS TO BE SELECTED.
3. CONTROL JOINTS ARE TO BE CUT THE FOLLOWING DAY.
4. ALL INTERIOR BLOCK EXPOSED OUTSIDE CORNERS TO BE 1" RADIUS ROUNDED.

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REGISTERED ARCHITECT

WHITFIELD COUNTY RIVERBEND PARK CONCESSION STAND
DALTON, GA

SHEET TITLE:
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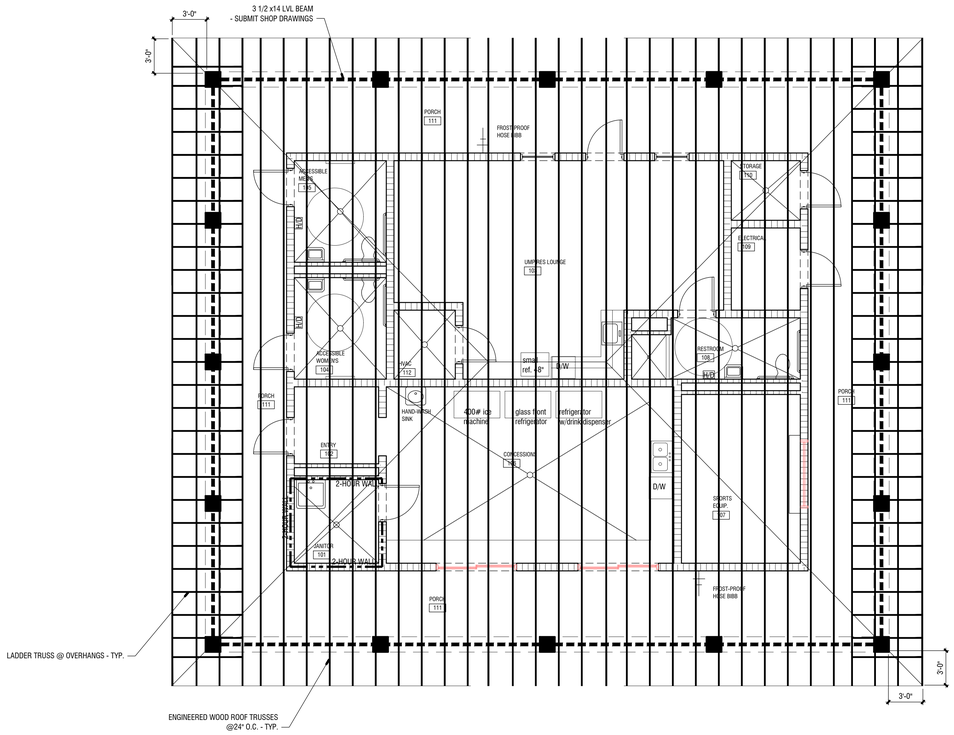

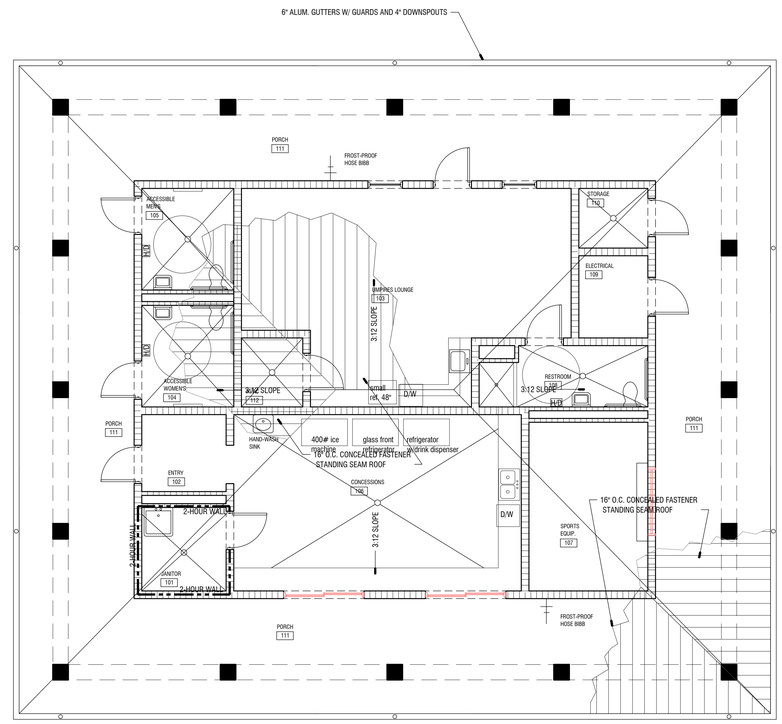

NOTES:

1. PROVIDE ENGINEERED WOOD TRUSSES & SHOP DRAWINGS SHOWING ALL CONDITIONS, DETAILS, DIMENSIONS, ANCHORING, HURRICANE STRAPS, ETC. SHOP DRAWING TO BE DESIGNED AND STAMPED BY A GEORGIA LICENSED ENGINEER.
2. VERIFY ALL AS-BUILD CONDITIONS PRIOR TO FABRICATING TRUSSES OR PREPARING SHOP DRAWING.
3. VERIFY ALL ROOF SLOPES AND OVER HANGS.

1 CONCESSION STAND ROOF FRAMING PALN

3/16" = 1'-0"

2 CONCESSION STAND ROOF PLAN

3/16" = 1'-0"

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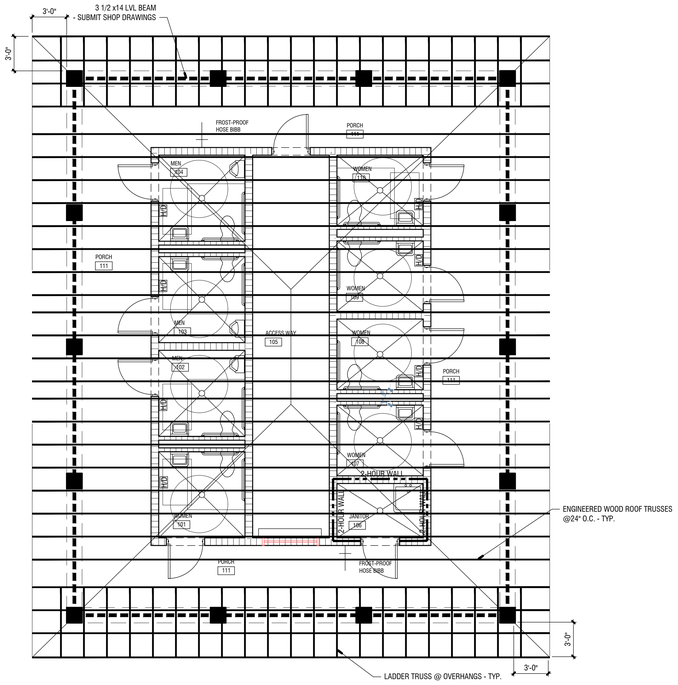

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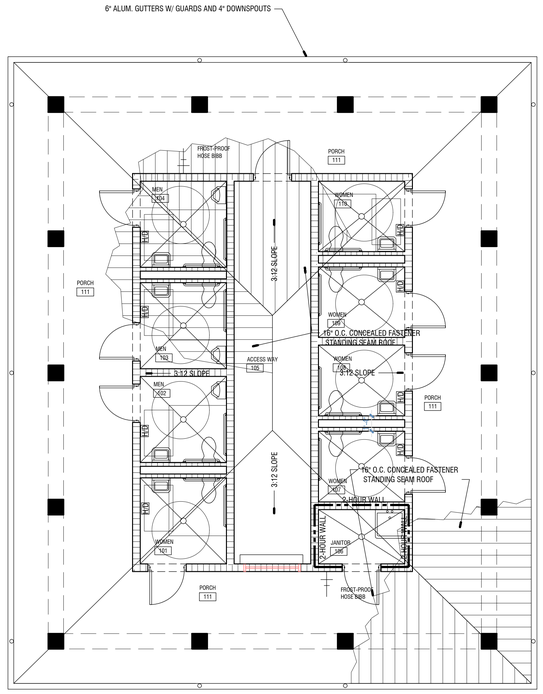
3. VERIFY ALL ROOF SLOPES AND OVER HANGS.

1 RESTROOM ROOF FRAMING PLAN

3/16" = 1'-0"



2 RESTROOM ROOF PLAN

3/16" = 1'-0"

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WHITFIELD COUNTY RIVERBEND PARK CONCESSION STAND

DALTON, GA

SHEET TITLE:
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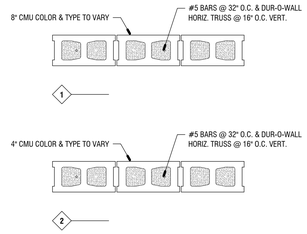
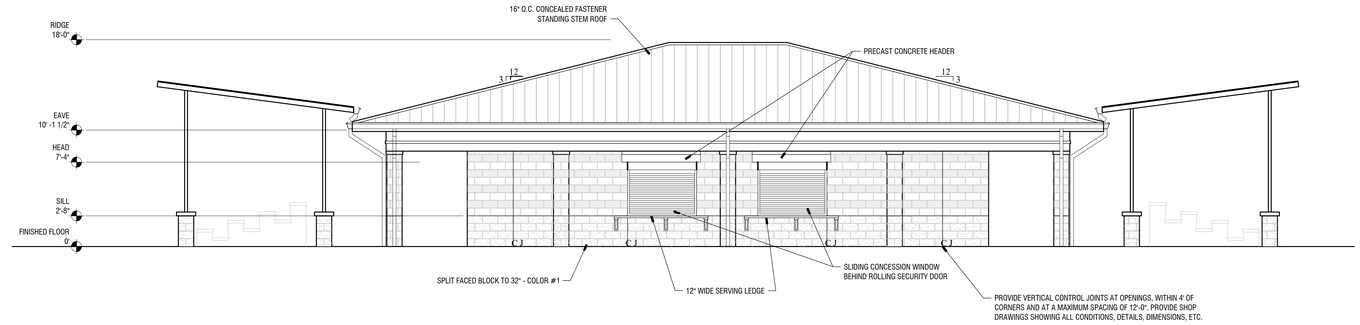
ROOM FINISH SCHEDULE

ROOM NUM.	ROOM NAME	FLOOR	WALLS FINISH	CEILING MAT'L	RUBBER BASE	NOTES
101	JANITOR	S.C.	PAINTED	HB	●	
102	ENTRY	S.C.	PAINTED	HB	●	
103	UMPIRES LOUNGE	S.C.	PAINTED	HB	●	
104	ACCESSIBLE WOMENS	S.C	PAINTED	HB	●	
105	ACCESSIBLE MENS	S.C.	PAINTED	HB	●	
106	CONCESSIONS	S.C.	PAINTED	HB	●	
107	SPORTS EQUIP.	S.C.	PAINTED	HB	●	
108	RESTROOM	S.C.	PAINTED	HB	●	
109	ELECTRICAL	S.C.	PAINTED	HB		
110	STORAGE	S.C	PAINTED	HB	●	
111	PORCH	B.C.	PAINTED	HB		
112	HVAC	S.C.	PAINTED	HB		

NOTE:
1. ALL FLOORS TO BE SEALED CONCRETE.
2. ALL WALLS TO BE EPOXY PAINT.
3. ALL CEILING TO BE HARDIEPANEL W/ 1X4 BATTEN STRIPS @ 4' O.C.





2 FRONT ELEVATION

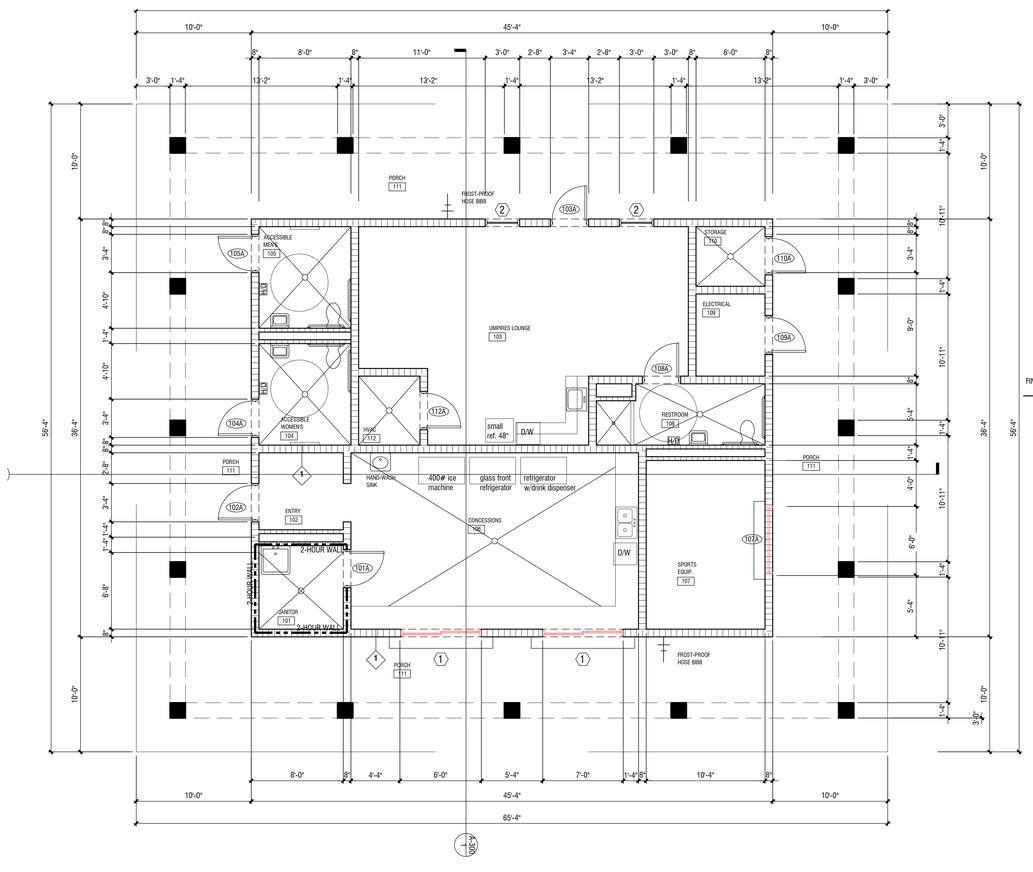
3/16" = 1'-0"

DOOR AND FRAME SCHEDULE

DOOR NUMBER	TYPE	DOOR SIZE WD	DOOR SIZE HGT	DOOR MATL	DOOR FINISH	FRAME MATL	FRAME FINISH	FRAME DETAIL TRIM	FIRE RATING LABEL	NOTES
101A	A	3'-0"	7'-0"	FRB	FACT.	ALUM.	FACT.	--	--	
102A	A	3'-0"	7'-0"	FRB	FACT.	ALUM.	FACT.	--	--	
103A	A	3'-0"	7'-0"	FRB	FACT.	ALUM.	FACT.	--	--	
104A	A	3'-0"	7'-0"	FRB	FACT.	ALUM.	FACT.	--	--	
105A	A	3'-0"	7'-0"	FRB	FACT.	ALUM.	FACT.	--	--	
106A	A	3'-0"	7'-0"	FRB	FACT.	ALUM.	FACT.	--	--	
107A	B	5'-0"	7'-0"	STEEL	FACT.	ALUM.	FACT.	--	--	
108A	A	3'-0"	7'-0"	FRB	FACT.	ALUM.	FACT.	--	--	
109A	A	3'-0"	7'-0"	FRB	FACT.	ALUM.	FACT.	--	--	
110A	A	3'-0"	7'-0"	FRB	FACT.	ALUM.	FACT.	--	--	
111A	A	3'-0"	7'-0"	FRB	FACT.	ALUM.	FACT.	--	--	
112A	A	3'-0"	7'-0"	FRB	FACT.	ALUM.	FACT.	--	--	

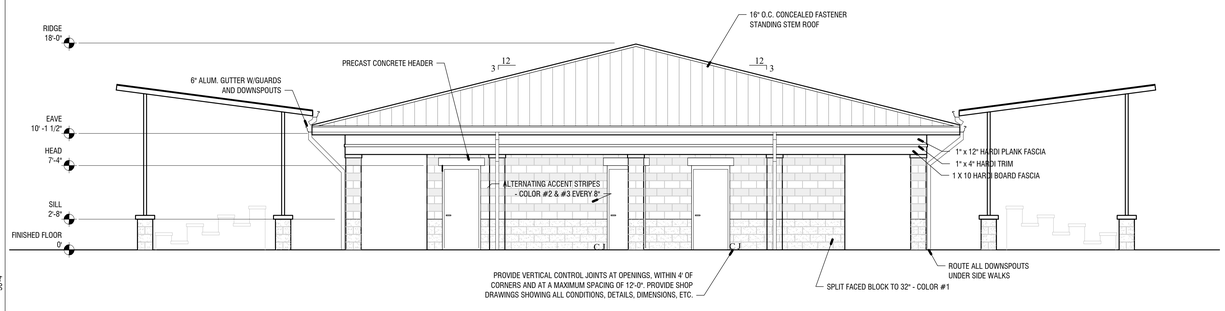
3 REAR ELEVATION

3/16" = 1'-0"



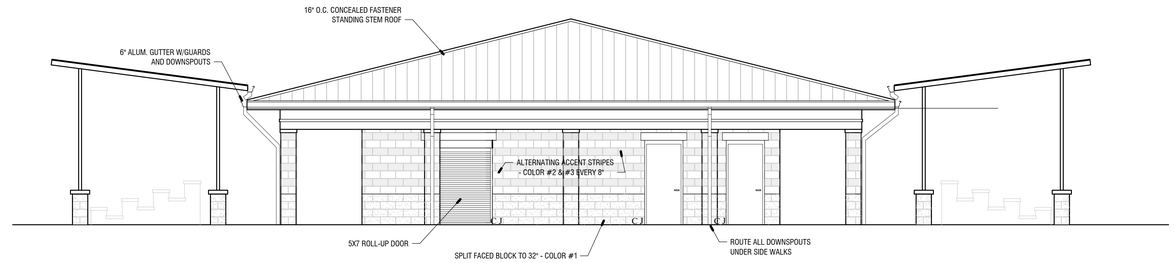
1 CONCESSION STAND FLOOR PLAN

3/16" = 1'-0"



4 LEFT ELEVATION

3/16" = 1'-0"



5 RIGHT ELEVATION

3/16" = 1'-0"

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WHITFIELD COUNTY RIVERBEND PARK CONCESSION STAND
DALTON, GA

SHEET TITLE: CONCESSIONS FLOOR PLAN & ELEVATIONS

PRINTED:

NUMBER: A-101

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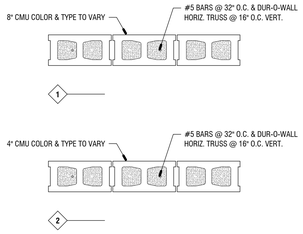
ROOM FINISH SCHEDULE

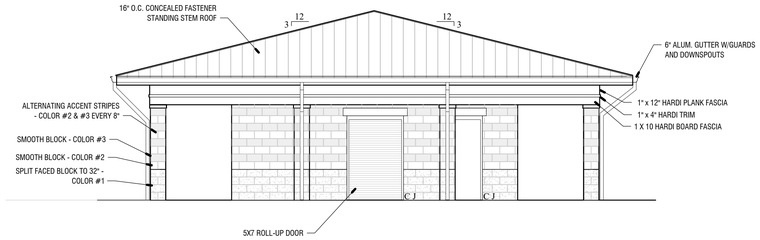
ROOM NUM.	ROOM NAME	FLOOR	WALLS FINISH	CEILING MAT'L	RUBBER BASE	NOTES
101	WOMEN	S.C.	PAINTED	HB	●	
102	MEN	S.C.	PAINTED	HB	●	
103	MEN	S.C.	PAINTED	HB	●	
104	MEN	S.C	PAINTED	HB	●	
105	ACCESS WAY	S.C.	PAINTED	HB	●	
106	JANITOR	S.C.	PAINTED	HB	●	
107	WOMEN	S.C.	PAINTED	HB	●	
108	WOMEN	S.C.	PAINTED	HB	●	
109	WOMEN	S.C.	PAINTED	HB	●	
110	WOMEN	S.C	PAINTED	HB	●	
111	PORCH	B.C.	PAINTED	HB		

NOTE:
1. ALL FLOORS TO BE SEALED CONCRETE.
2. ALL WALLS TO BE EPOXY PAINT.
3. ALL CEILING TO BE HARDIEPANEL W/ 1X4 BATTEN STRIPS @ 4' O.C.

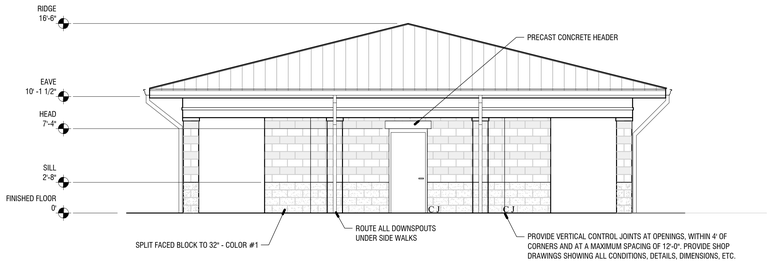
DOOR AND FRAME SCHEDULE

DOOR NUMBER	TYPE	DOOR SIZE WD	DOOR SIZE HGT	DOOR MATL	DOOR FINISH	FRAME MATL	FRAME FINISH	DETAIL TRIM	FIRE RATING LABEL	NOTES
101A	A	3'-0"	7'-0"	FRB	FACT.	ALUM.	FACT.	--	--	
102A	A	3'-0"	7'-0"	FRB	FACT.	ALUM.	FACT.	--	--	
103A	A	3'-0"	7'-0"	FRB	FACT.	ALUM.	FACT.	--	--	
104A	A	3'-0"	7'-0"	FRB	FACT.	ALUM.	FACT.	--	--	
105A	A	3'-0"	7'-0"	FRB	FACT.	ALUM.	FACT.	--	--	
105B	B	5'-0"	7'-0"	STEEL	FACT.	ALUM.	FACT.	--	--	
106A	A	3'-0"	7'-0"	FRB	FACT.	ALUM.	FACT.	--	--	
107A	A	3'-0"	7'-0"	FRB	FACT.	ALUM.	FACT.	--	--	
108A	A	3'-0"	7'-0"	FRB	FACT.	ALUM.	FACT.	--	--	
109A	A	3'-0"	7'-0"	FRB	FACT.	ALUM.	FACT.	--	--	
110A	A	3'-0"	7'-0"	FRB	FACT.	ALUM.	FACT.	--	--	





2 RESTROOM FRONT ELEVATION
3/16" = 1'-0"



3 RESTROOM REAR ELEVATION
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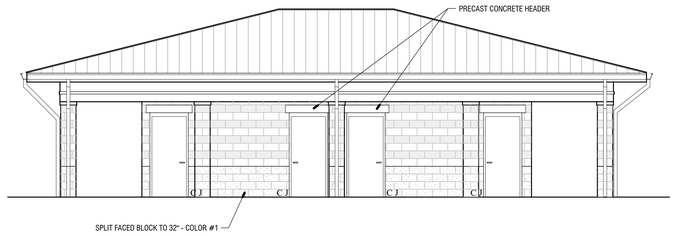

4 RESTROOM LEFT ELEVATION
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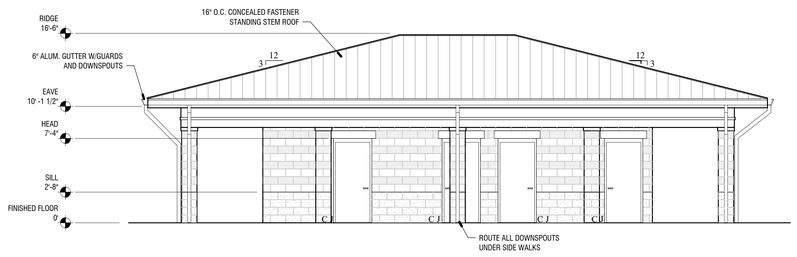
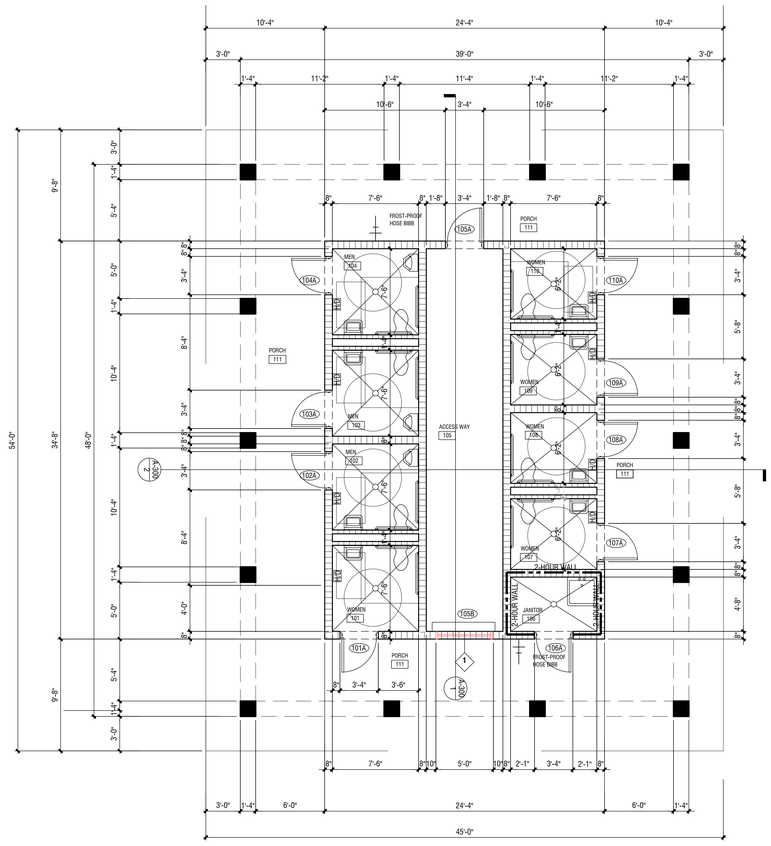


5 RESTROOM RIGHT ELEVATION
3/16" = 1'-0"



1 RESTROOM FLOOR PLAN
3/16" = 1'-0"

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WHITFIELD COUNTY RIVERBEND PARK CONCESSION STAND
DALTON, GA

SHEET TITLE: RESTROOM FLOOR PLAN & ELEVATIONS

NUMBER: A-102

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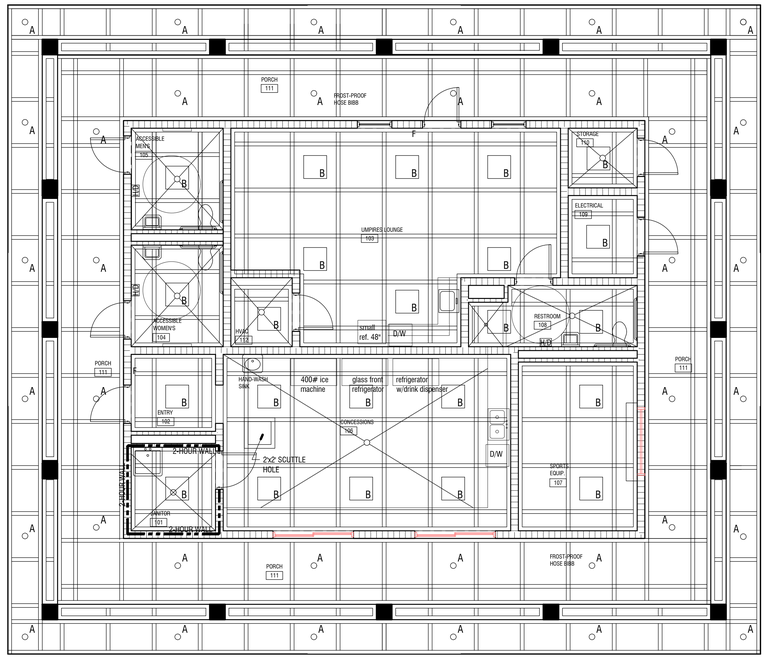

LIGHT FIXTURE TYPES

A	6" DIAMETER LED CAN LIGHT
B	24"X 24" LED SURFACE MOUNTED LIGHT

ALL CEILING AREAS ARE 1/2" 4'x4' HARDIE BOARDS
WITH 1X4 HARDIE BATTEN STRIPS
ON UNDERSIDE OF TRUSSES, BATTENS ARE TO COVER
THE SEAMS

1 CONCESSIONS RCP

3/16" = 1'-0"

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DALTON, GA

SHEET TITLE:
CONCESSIONS REFLECTED CEILING PLANI

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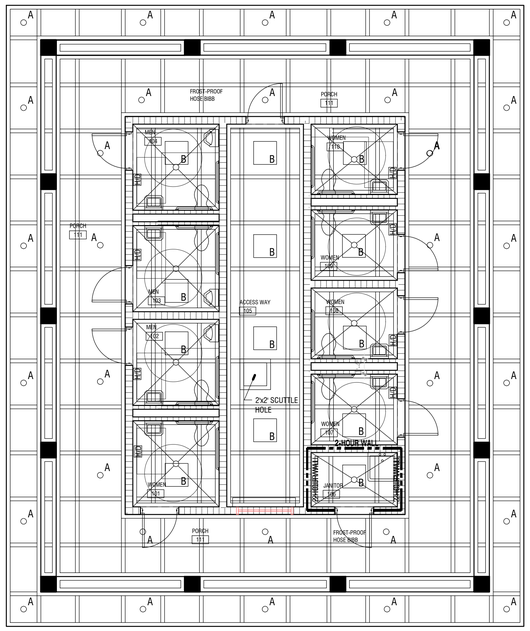

LIGHT FIXTURE TYPES

A	6" DIAMETER LED CAN LIGHT
B	24"X 24" LED SURFACE MOUNTED LIGHT

ALL CEILING AREAS ARE 1/2" 4'x4' HARDIE BOARDS WITH 1X4 HARDIE BATTEN STRIPS ON UNDERSIDE OF TRUSSES, BATTENS ARE TO COVER THE SEAMS

1 RESTROOM RCP

3/16" = 1'-0"

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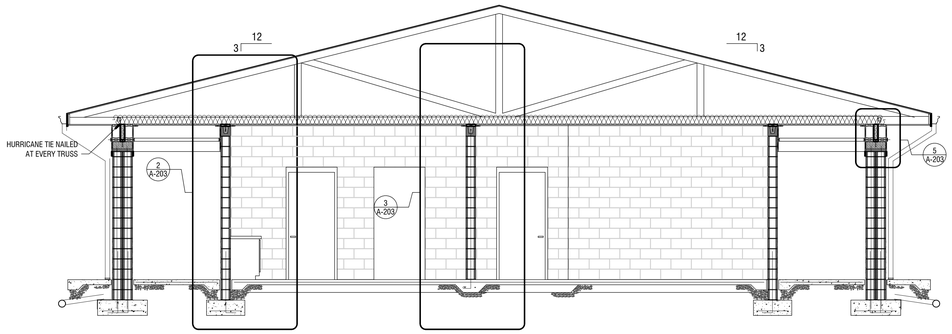
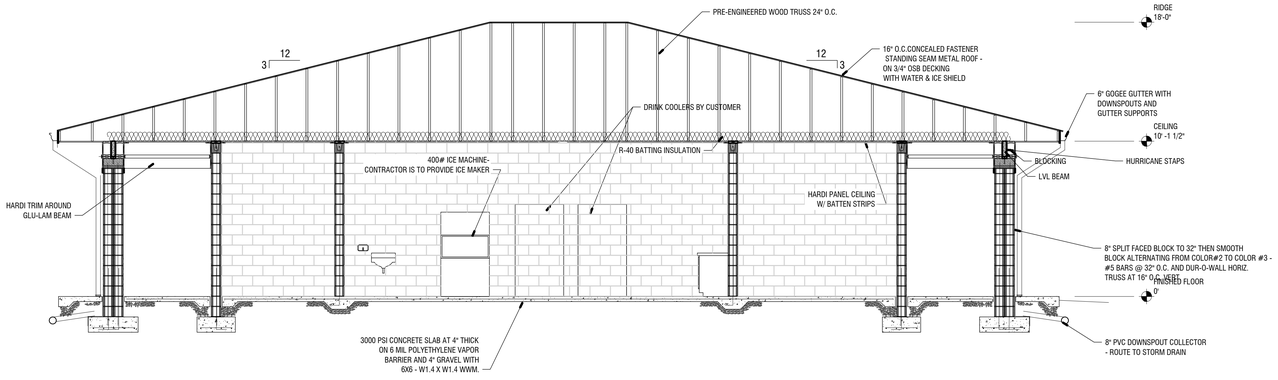


2 CONCESSIONS TRANSVERSE SECTION

1/4" = 1'-0"



1 CONCESSIONS LONGITUDNIAL SECTION

1/4" = 1'-0"

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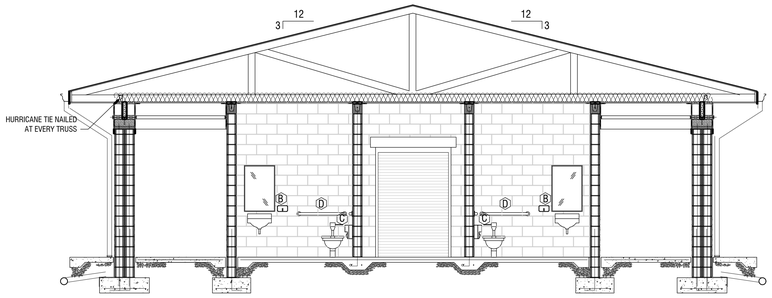
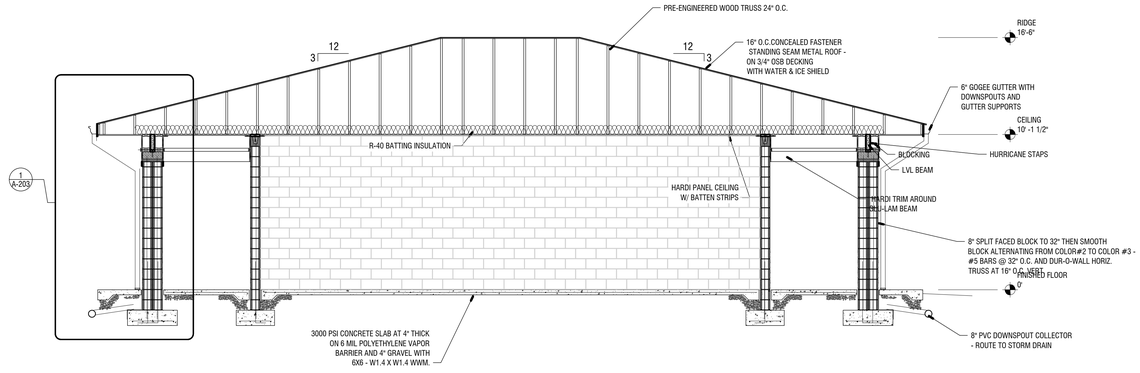
A-201



2 RESTROOM TRANSVERSE SECTION

1/4" = 1'-0"



1 RESTROOM LONGITUDNIAL SECTION

1/4" = 1'-0"

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DALTON, GA

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RESTROOM BUILDING SECTIONS

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NUMBER:
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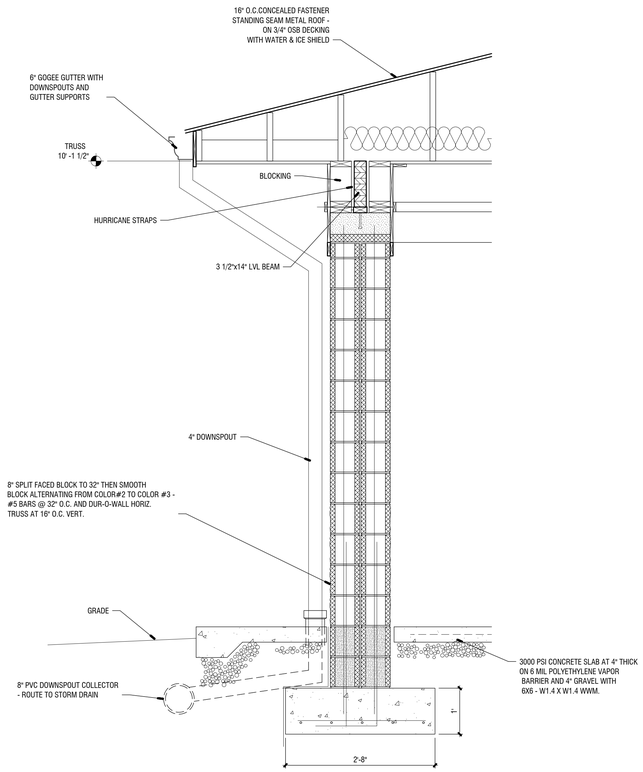
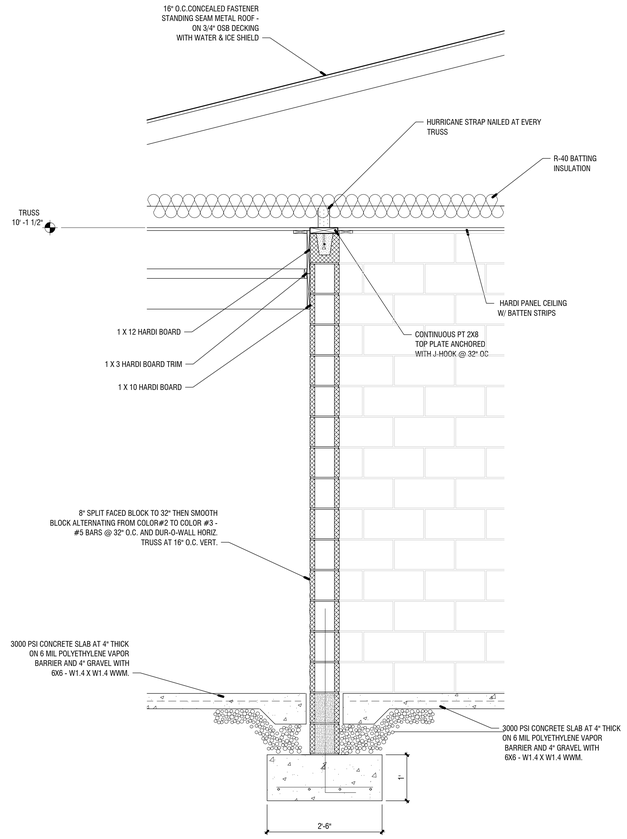


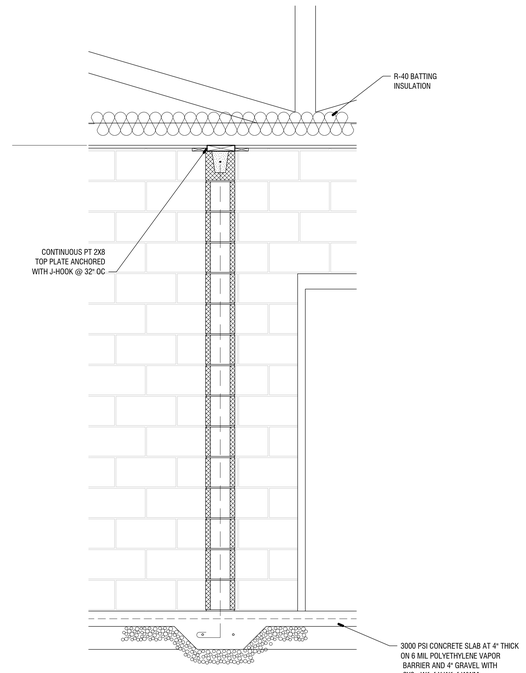
1 COLUMN SECTION

3/4" = 1'-0"



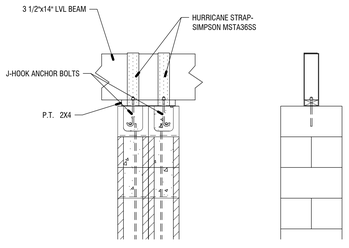
2 EXTERIOR WALL SECTION

3/4" = 1'-0"



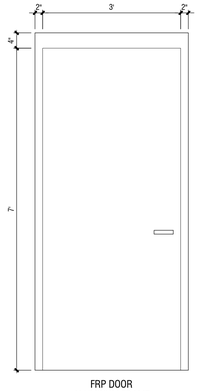
3 INTERIOR WALL SECTION

3/4" = 1'-0"



5 COLUMN AND LVL SECTION

3/4" = 1'-0"



FRP DOOR
ALUMINUM FRAME

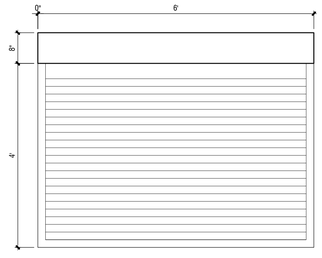
A

ROLL UP DOOR

B

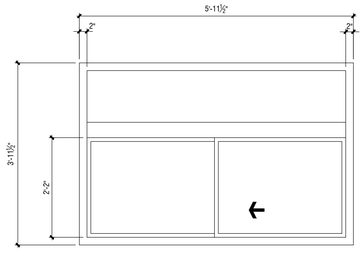
6 DOOR ELEVATION

3/4" = 1'-0"



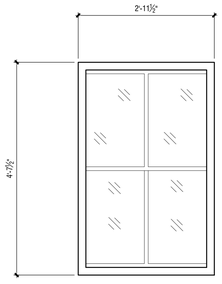
EXTERIOR

VANDAL PROOF ROLL UP
METAL WINDOW



INTERIOR
SLIDING CONCESSION STAND
WINDOW
SEE SPECS

1



EXTERIOR
WINDOW
SEE SPECS

2

7 WINDOW ELEVATIONS

3/4" = 1'-0"

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WHITFIELD COUNTY RIVERBEND PARK CONCESSION STAND

DALTON, GA

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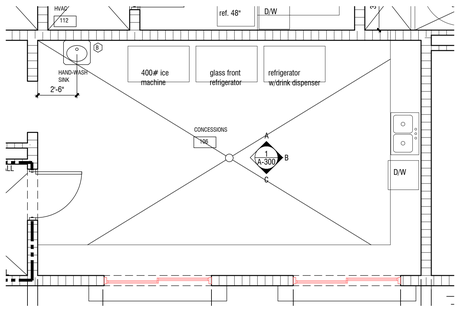
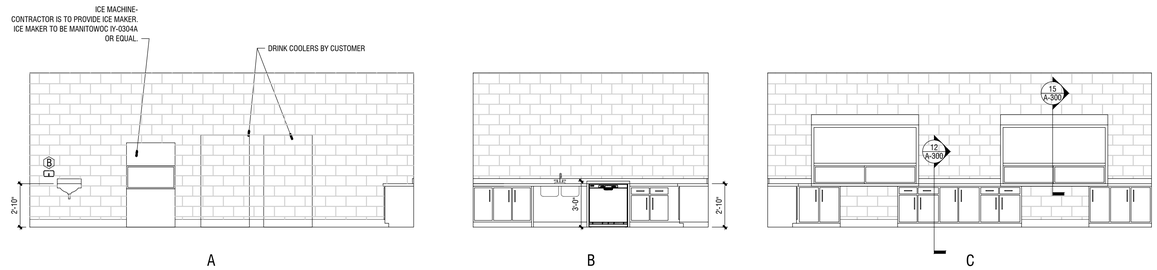


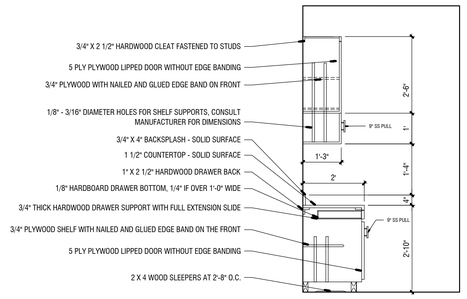
6 CONCESSIONS PLAN

1/4" = 1'-0"



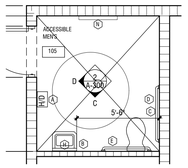
1 CONCESSIONS INTERIOR ELEVATIONS

1/4" = 1'-0"



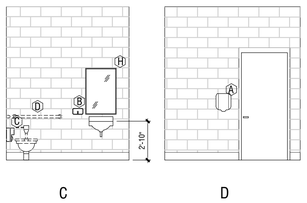
11 CABINET SECTION

1/4" = 1'-0"



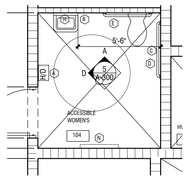
7 MENS RESTROOM PLAN

1/4" = 1'-0"



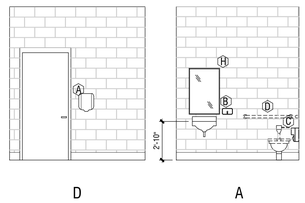
2 MENS RESTROOM

1/4" = 1'-0"



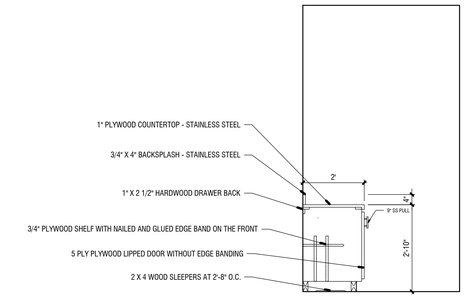
8 WOMENS RESTROOM PLAN

1/4" = 1'-0"



5 WOMENS RESTROOM

1/4" = 1'-0"

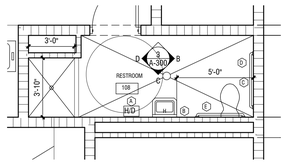


12 CABINET SECTION 2

1/4" = 1'-0"

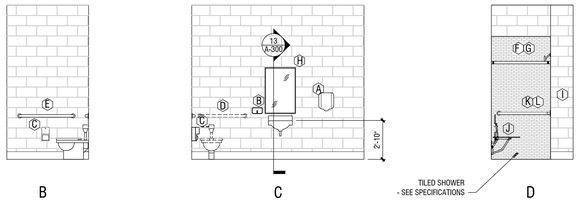
MILLWORK NOTES:

1. SUBMIT COMPREHENSIVE SHOP DRAWINGS FOR ALL MILLWORK. SHOW ALL DETAILS, HARDWARE, ANCHORING, ANCHORING DEVICES, DIMENSIONS, BLOCKING, ETC.
2 RECEPTION DESK COUNTERTOP AND BACKSPLASH TO BE QUARTZ ALL OTHER COUNTERS TO BE SOLID SURFACE COUNTERS
3. ALL INTERIOR SURFACES TO BE MELAMINE. EXTERIOR TO BE PLASTIC LAMINATE. ALLOW TWO COLORS OF PLASTIC LAMINATE ONE FOR CABINET FRAMES, DOOR, DRAWERS, ETC.. COLORS ARE TO BE SELECTED FROM WILSONART COLOR SELECTIONS AND SHALL NOT BE LIMITED BY AVAILABILITY.
4. COORDINATE ALL RELATED WORK INCLUDING ELECTRICAL, PLUMBING, EQUIPMENT, ETC. AND PROVIDE ACCOMMODATIONS FOR SUCH.
5. PROVIDE ALL REQUIRED BLOCKING FOR MILLWORK INSTALLATION.
6. SEE SPECIFICATIONS FOR SPECIFIC PRODUCT INFORMATION.
7. COORDINATE MILLWORK WITH "BUILT" DIMENSIONS. SHOP DRAWINGS SHALL REFLECT ACTUAL VERIFIED DIMENSIONS.
8. ALL BASE CABINETS TO HAVE ONE ADJUSTABLE, FULL DEPTH SHELF.
9. ALL WALL CABINETS TO HAVE THREE FULL DEPTH, ADJUSTABLE SHELVES. WALL CABINETS SHALL BE 12" DEEP. UNITS ABOVE SINKS, REFRIGERATORS, STOVES, ETC. TO HAVE ONE FULL DEPTH, ADJUSTABLE SHELF.
10. ALL DOORS AND DRAWER FACES TO BE 5/8" PLYWOOD. NO PARTICLE BOARD WILL BE ACCEPTED ON ANY PORTION OF THE MILLWORK.
11. PROVIDE EDGE BANDING ON ALL FOUR SIDES OF SHELVING - TYPICAL.
12. ALL MILLWORK TO BE EURO STYLE (FRAMELESS) TYPE WITH HARDWOOD WEBBING.
13. PROVIDE SQUARE 1 1/2" EDGES ON ALL COUNTERTOPS.
14. APPLY LAMINATE TO COUNTERTOP SIDES PRIOR TO APPLYING TOPS.
15. PROVIDE HARDWOOD SLEEPERS AT 24" O.C. UNDER ALL CABINETS - TYPICAL.



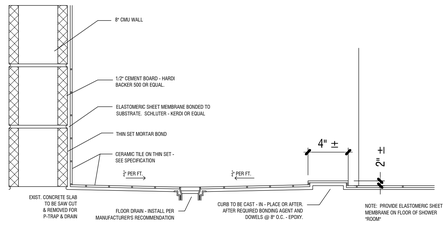
9 UPMPIRES LOUNGE RESTROOM

1/4" = 1'-0"



3 RESTROOM

1/4" = 1'-0"

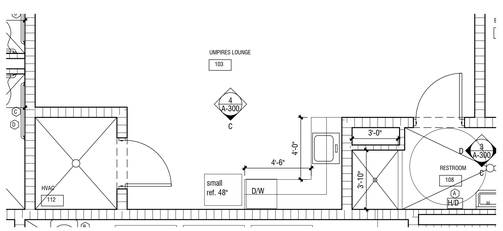


14 SHOWER SECTION

1 1/2" = 1'-0"

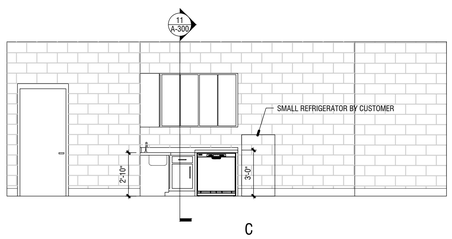
TOILET ACCESSORIES

Item	Description	Model No.	
A	ELECTRICAL HAND DRYER	ASI-PROUDCT: 0199-1/2/3	36" A.F.F.
B	SOAP DISPENSER	FURNISHED BY OWNER INSTALLED BY G.C.	40" TO SPOUT
C	TOILET TISSUE DISP.	FURNISHED BY OWNER INSTALLED BY G.C.	19" TO CENTERLINE
D	42" HANDICAP GRAB BAR NON-SLIP GRIP	ASI - SECURITY SERIES	34" A.F.F.
E	36" HANDICAP GRAB BAR NON-SLIP GRIP	ASI - SECURITY SERIES	34" A.F.F
F	Shower Curtain Rod-Concealed mt.	ASI - MODEL 1204	74" VERIFY
G	Shower hooks & curtain	ASI - MODEL 1200-SHU AND 1200-V	
H	Mirrors	ASI - MODEL 8287	40" TO BOTTOM
I	HOOKS AND BUMPERS	ASI - MODELS 0751/8425	2 @ EACH SHOWER 60" A.F.F.
J	SHOWER SEAT	ASI - MODEL 0010	18" TO TOP
K	30" Handicap Grab Bar-Non-slip grip	ASI - SECURITY SERIES	34" A.F.F
L	24" Handicap Grab Bar-Non-slip grip	ASI - SECURITY SERIES	34" A.F.F.
M	DUAL DRINKING FOUNTAINS W/ BOTTLE FILL	OASIS VERSACOOLERS II W/ HANDS FREE QUASAR	
N	FOLDING BABY CHANGING STATION	ASI - MODEL 9013-9	SEE SPECS



10 UMPIRES LOUNGE PLAN

1/4" = 1'-0"

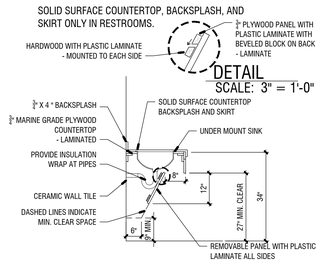


4 UMPIRES LOUNGE

1/4" = 1'-0"

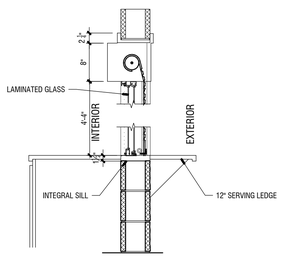
NOTE:

SOLID SURFACE COUNTERTOP, BACKSPLASH, AND SKIRT ONLY IN RESTROOMS.



13 COUNTER SECTION

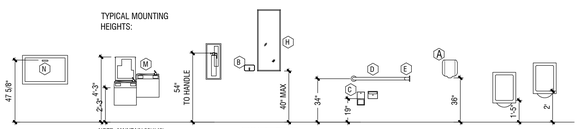
1/2" = 1'-0"



15 CONCESSION WINDOW SECTION

3/4" = 1'-0"

TYPICAL MOUNTING HEIGHTS:



NOTE: MAINTAIN 30" X 48" CLEAR FLOOR SPACE AT DRINKING FOUNTAINS

TOILET ACCESSORY NOTES:

1. ALL ACCESSORIES SHALL BE CHROME FINISH.

2. COORDINATE LOCATION OF ACCESSORIES WITH NECESSARY BLOCKING, ELECTRICAL SWITCH AND WIRING LOCATIONS ETC. TO ENSURE PROPER CLEARANCES AND MOUNTING HEIGHTS. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING.

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BENJAMIN MERCER PARKER
CERTIFICATE NO. 20842
REGISTERED ARCHITECT

WHITFIELD COUNTY RIVERBEND PARK CONCESSION STAND

DALTON, GA

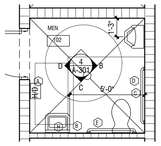
SHEET TITLE:
CONCESSIONS INTERIOR ELEVATIONS

PRINTED:

NUMBER:
A-300

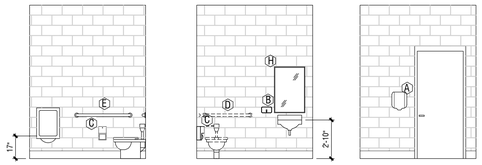
FAYETTE CO. ANIMAL SHELTER PRINTED DATE: 10/14/20

Oct 14 2020 | T:\SHARED CAD\Projects 2019\Whitfield County Riverbend Park\CONCESSION STAND\Whitfield County Riverbend Park Concession Stand\Sheets\A-300 CONCESSIONS INTERIOR ELEVATIONS.dwg



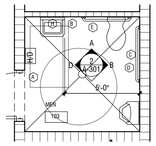
5 MENS RESTROOM 2 PLAN

1/4" = 1'-0"



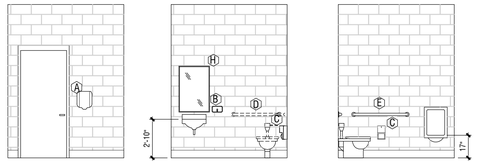
1 MENS RESTROOM 2

1/4" = 1'-0"



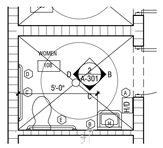
6 MENS RESTROOM 3 PLAN

1/4" = 1'-0"



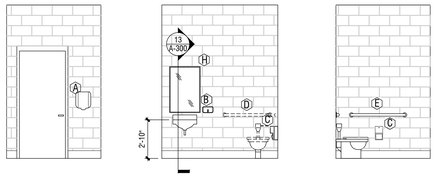
4 MENS RESTROOM 3

1/4" = 1'-0"



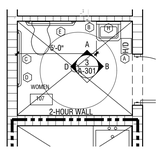
7 WOMENS RESTROOM 2 PLAN

1/4" = 1'-0"



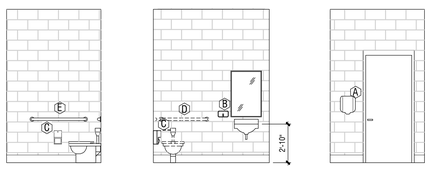
2 WOMENS RESTROOM 2

1/4" = 1'-0"



8 WOMENS RESTROOM 3 PLAN

1/4" = 1'-0"



3 WOMENS RESTROOM 3

1/4" = 1'-0"

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FAYETTE CO. ANIMAL SHELTER PRINTED DATE: 10/14/20

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SEAL

STATE OF GEORGIA
BENJAMIN MERCER LAWYER
GEORGIA REGISTERED ARCHITECT

WHITFIELD COUNTY RIVERBEND PARK CONCESSION STAND
DALTON, GA

SHEET TITLE:
RESTROOM INTERIOR ELEVATIONS

PRINTED:

NUMBER:
A-301

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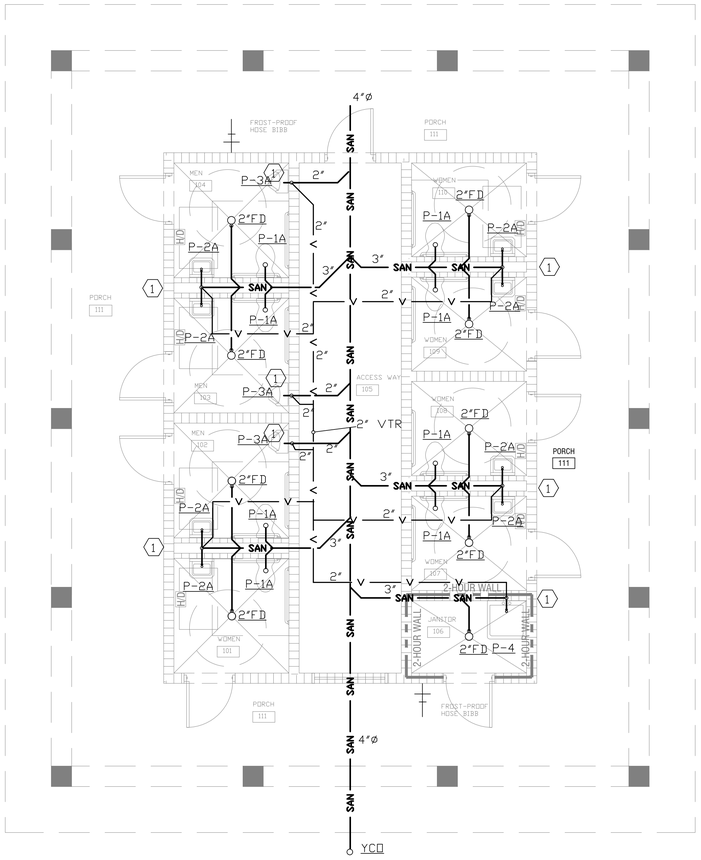
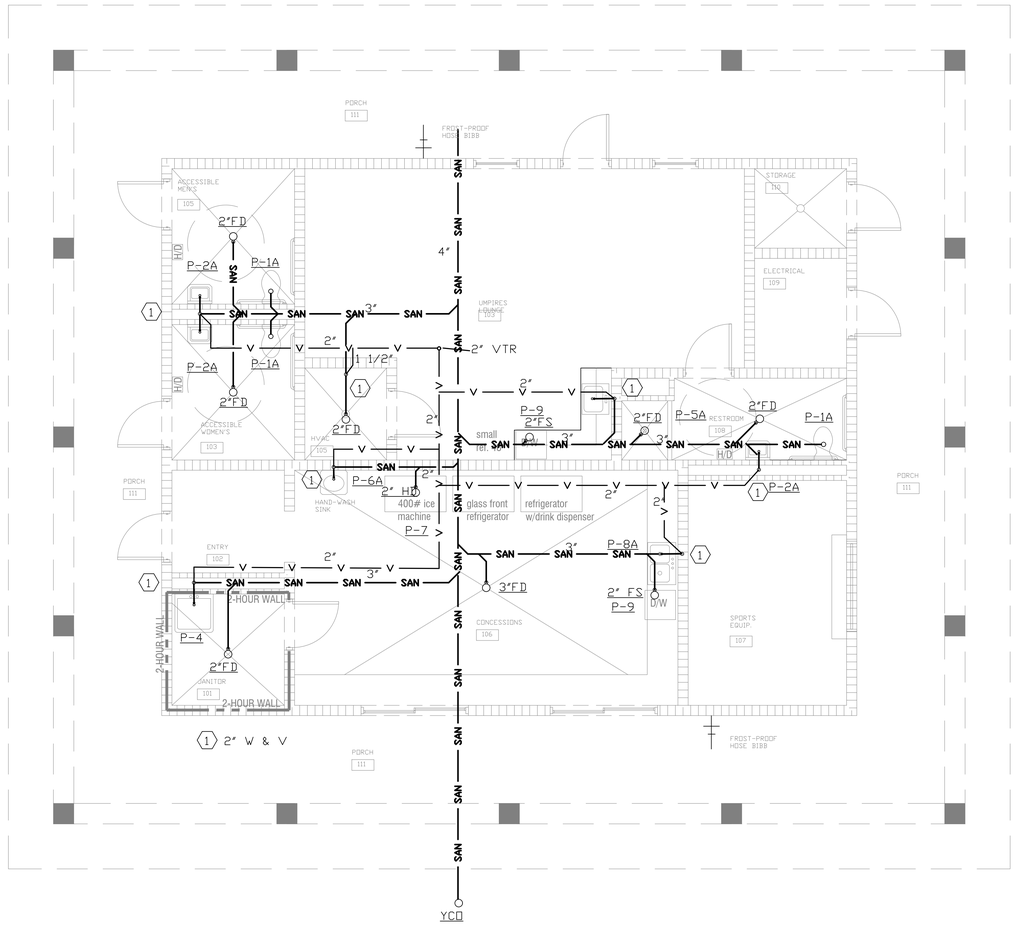


FLOOR PLAN-SANITARY

1/4"=1'-0"



FLOOR PLAN-SANITARY

1/4"=1'-0"

LEGEND		
SAN	SOIL AND WASTE PIPING	SAN
V	VENT PIPING	V V
C.W.	COLD WATER PIPING	
H.W.	HOT WATER PIPING	
HWR	HOT WATER RECIRCULATING	
G.V.	GATE VALVE	
W	WASTE	
V	VENT	
	VENT THRU ROOF	
F.D.	FLOOR DRAIN	
H.D.	HUB DRAIN	
F.S.	FLOOR SINK	
T&P	TEMPERATURE AND PRESSURE	
A.F.F.R.	ABOVE FINISH FLOOR	
A/C	ABOVE CEILING	
U.F.	UNDER FLOOR SLAB	
W.H.A.	WATER HAMMER ARRESTOR	
P1	INDICATES EQUIPMENT NUMBER FOR PLUMBING	
	ONLY	

PLUMBING FIXTURE CONNECTION SCHEDULE

SYMBOL	FIXTURE	RUN OUT SIZES W	CW	HW	MTG HT.	DESCRIPTION
P-1A	WATER CLOSET (FLUSH)	3"	1"	-	18"	18" FLOOR TO RIM (HANDICAPPED)
P-2A	LAVATORY (WALL)	1 1/4"	1/2"	1/2"	29"	29" FLOOR TO BOTTOM OF APRON (HANDICAPPED)
P-3A	URINAL	2"	3/4"	-	17"	17" FLOOR TO LIP (HANDICAPPED)
P-4	SERVICE SINK	3"	1/2"	1/2"	26 1/4"	26 1/4" FLOOR TO RIM
P-5A	SHOWER	2"	1/2"	1/2"	-	SHOWER HEAD 66" AFF, VALVE-38" TO 48" AFF
P-6A	HAND WASH SINK	1 1/4"	1/2"	1/2"	29"	29" FLOOR TO BOTTOM OF APRON
P-7	ICE MACHINE	2"	1/2"	-	12"	INDIRECT WASTE TO HUB DRAIN
P-8A	DOUBLE COMP SINK	1 1/2"	1/2"	1/2"	-	COUNTER TOP
P-9	DISHWASHER	2"		1/2"	-	INDIRECT WASTE TO FLOOR SINK

1. SEE ARCHITECT DRAWINGS FOR THE ELEVATION AND LOCATION.

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WHITFIELD REIVERBEND PARK PRINTED DATE: 09/28/20

Sep 28,2020 | C:\2020-021\wetland\2020-021P1.dwg

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Date Plotted : Sep 28, 2020 - 11:52am
file: 2020-021P1.DWG

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SEAL

GEORGIA REGISTERED No. 015335 PROFESSIONAL ENGINEER J. T. PARTIN

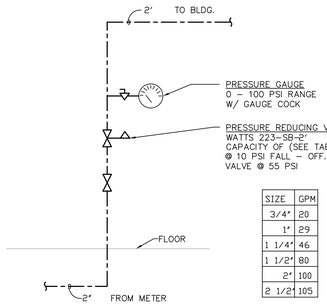
WHITFIELD COUNTY RIVERBEND PARK CONCESSION STAND

DALTON, GA

SHEET TITLE:
FLOOR PLANS-SANITARY
LEGEND

PRINTED: 09/28/20

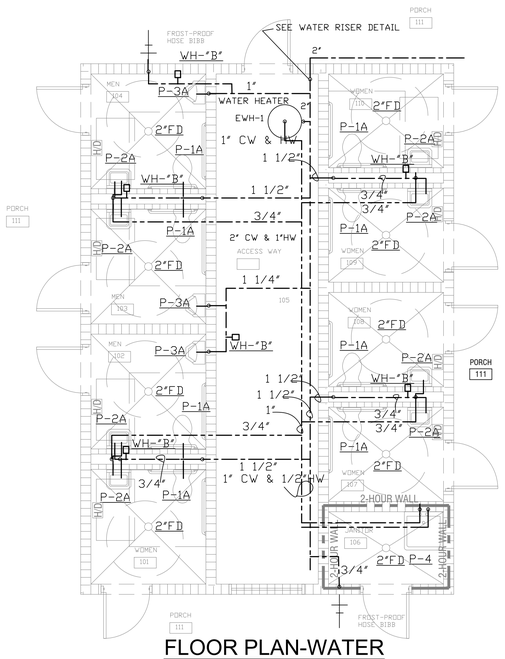
NUMBER: P-1



SIZE	GPM
3/4"	20
1"	29
1 1/4"	46
1 1/2"	80
2"	100
2 1/2"	105

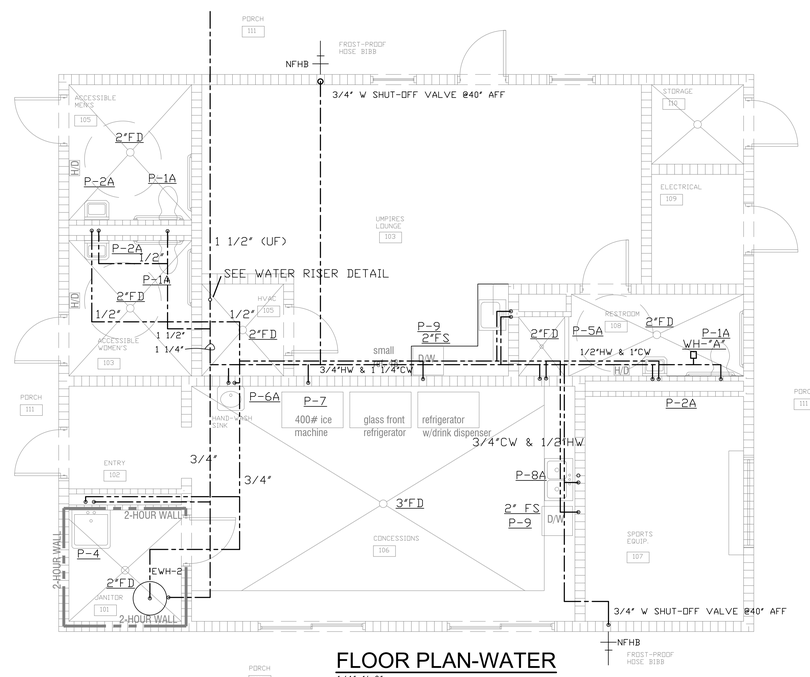
WATER RISER DETAIL

NO SCALE – SCHEMATIC ONLY



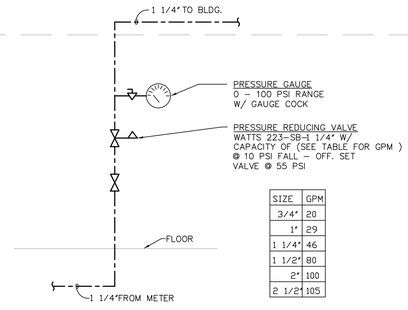
FLOOR PLAN-WATER

1/4"=1'-0"



FLOOR PLAN-WATER

1/4"=1'-0"



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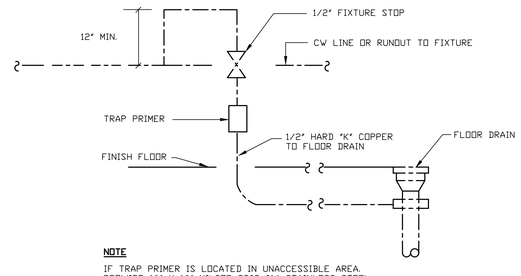


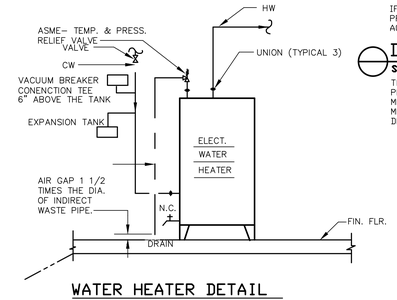
NOTE

IF TRAP PRIMER IS LOCATED IN UNACCESSIBLE AREA. PROVIDE 16" X 16" MILCOR 3202-014 STAINLESS STEEL ACCESS PANEL

DETAIL – TRAP PRIMER

SCHEMATIC

TRAP SEAL PRIMER SHALL BE:
PRECISION PLUMBING PRODUCTS, INC.
MODEL P-2 FOR ONE (1) TWO (2) DRAIN WITH DISTRIBUTION UNIT.
MODEL P-1 WITH DISTRIBUTION UNIT PRIMING THREE (3) TO EIGHT (8) DRAINS.



WATER HEATER DETAIL

SCALE: NONE

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WHITFIELD REIVERBEND PARK PRINTED DATE: 09/28/20

Sep 28 2020 | C:\2020-021\riverbend\2020-021P2.dwg

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Date Plotted : Sep 28, 2020 - 11:52am
file: 2020-021P2.DWG

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SEAL

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 015335 PAUL A. WATKINS

WHITFIELD COUNTY RIVERBEND PARK CONCESSION STAND

DALTON, GA

SHEET TITLE:
FLOOR PLANS-WATER
DETAILS

PRINTED: 09/28/20

NUMBER:
P-2

PLUMBING GENERAL NOTES

1. CONTRACTOR SHALL BRING TO THE ATTENTION OF ARCHITECT ANY CONFLICTS OF WORK PRIOR TO PURCHASE OF EQUIPMENT OR COMMENCEMENT OF WORK.
2. CONTRACTOR SHALL VISIT THE JOB SITE AND HAVE A GOOD WORKING KNOWLEDGE AND ACQUAINTANCE OF THE EXISTING JOB SITE AS WELL AS THE CONDITIONS OF THE JOB SITE AND INCLUDE A STATEMENT ON HIS BID THAT HE HAS DONE SO.
3. REQUEST FOR PAYMENT FOR ADDITIONAL COSTS DUE TO SITE CONDITIONS WILL NOT BE ALLOWED.
4. FURNISH ALL PLAN, LABOR, EQUIPMENT, (EXCEPT AS OTHERWISE INDICATED AND AGREED UPON), AND MATERIALS AS INDICATED, AND PERFORM ALL OPERATIONS IN CONNECTION WITH THE INSTALLATION OF A COMPLETE PLUMBING SYSTEM.
5. THE WORK UNDER THIS SECTION SHALL COMPLY AS MINIMUM REQUIREMENTS WITH APPLICABLE LAWS, ORDINANCES, CODES, AND REGULATIONS OF THE COUNTY, STATE, AND CITY WHERE INSTALLED. WHERE THE REQUIREMENTS OF THESE SPECIFICATIONS ARE MORE THAN RESTRICTIVE THAN APPLICABLE CODES AND REGULATIONS DESCRIBED ABOVE, THE REQUIREMENTS OF PLANS AND SPECIFICATIONS SHALL BE MET.
6. PLUMBING CONTRACTOR SHALL OBTAIN ALL PERMITS AND INSPECTIONS REQUIRED FOR THE INSTALLATION OF THIS WORK AND PAY ALL CHARGES INCIDENT THERETO. HE SHALL DELIVER TO THE ARCHITECT CERTIFICATES OF SAID INSPECTIONS ISSUED BY PROPER AUTHORITIES. HE SHALL PAY ALL COSTS FOR PERMITS AND INSPECTIONS AS REQUIRED BY GOVERNING AUTHORITY.
7. REQUIRED INSURANCE SHALL BE PROVIDED BY THE CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF WORK.
8. VERIFY LOCATION, SIZE, INVERTS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION. ADVICE ENGINEER OF ANY DISCREPANCIES.
9. FURNISH TWO BROCHURES CONTAINING CATALOG CUTS AND DATA ON PLUMBING FIXTURES, WATER HEATER AND SPECIFY ITEMS, AS WELL AS WARRANTIES AND GUARANTIES PERTAINING THERETO.
10. PROTECT ALL PLUMBING EQUIPMENT AND MATERIALS AGAINST DAMAGE. COMPLETED SYSTEM SHALL BE FREE FROM BLOCKAGE, DEBRIS, AND OBSTRUCTIONS.
11. PROVIDE THE OWNER WITH A WRITTEN AND CERTIFIED GUARANTEE FOR THE COMPLETED WORK COVERING A PERIOD OF ONE YEAR, STARTING FROM THE DAY OF FINAL ACCEPTANCE BY THE OWNER OF THE COMPLETED AND APPROVED SYSTEMS.
12. ELECTRICAL EQUIPMENT SHALL BE FURNISHED AND WIRED FOR THE ELECTRICAL CHARACTERISTICS CALLED FOR IN ELECTRICAL PLANS AND SPECIFICATIONS.
13. PROVIDE CHROME PLATED FLOOR, WALL AND CEILING PLATES AT EACH EXPOSED POINT WHERE PIPES PASS THROUGH FLOOR, WALL AND/OR CEILING.
14. WATER PIPING LESS THAN 1 ½" DIAMETER AND ALL RELATED VALVES, FITTINGS, AND JOINTS SHALL BE INSULATED WITH ½" COLD AND 1" HOT HEAVY DENSITY FIBERGLASS WITH FKS SELF-SEALING LAP. WATER PIPING GREATER THAN 1 ½" DIAMETER AND ALL RELATED VALVES, FITTINGS, AND JOINTS SHALL BE INSULATED WITH ½" COLD AND 2" HOT HEAVY DENSITY FIBERGLASS WITH FKS SELF-SEALING LAP. HORIZONTAL STORM DRAIN WITHIN CONDITION SPACES USE 1" PREFORMED FIBERGLASS PIPE INSULATION WITH FACTORY JACKET.
15. ALL WATER PIPING AND ALL RELATED VALVES, FITTINGS, AND JOINTS SHALL BE INSULATED WITH 1/2" COLD AND 1" HOT HEAVY DENSITY FIBERGLASS WITH FKS SELF-SEALING LAP
16. JOINT JACKET: JOINTS AND FITTINGS SHALL BE DONE IN ACCORDANCE WITH RECOMMENDATIONS OF MANUFACTURER SUPPLYING THE INSULATION. INSULATION MATERIALS, INCLUDING INSULATION CLOTHS, CEMENTS, JACKETS, FACINGS, ADHESIVES, MASTIC, TAPES, AND OTHER ACCESSORIES SHALL HAVE COMPOSITE FIRE AND SMOKE HAZARD RATING AS TESTED BY U.L. PROCEDURE U1723, NOT EXCEEDING FLAME SPREAD RATING OF 25 AND SMOKE DEVELOPED RATING OF 50. USE OF WATER SOLUBLE TREATMENTS TO ACHIEVE THESE RATINGS IS NOT ACCEPTABLE.
17. WATER PIPING BELOW FLOOR SLAB ON EARTH AND OUTSIDE SHALL BE TYPE "L" HARD COPPER WITH WROUGHT COPPER FITTINGS MADE USING LEAD FREE SOLDER JOINTS. PIPE SUBJECT TO CORROSION DUE TO SALTY DIRT SHALL RUN INSIDE THE PVC PIPE JACKET.
18. INSIDE WATER PIPING SHALL BE TYPE "M" COPPER WITH WROUGHT COPPER FITTINGS MADE USING LEAD FREE SOLDER JOINTS. PLASTIC WATER PIPE WILL NOT BE APPROVED.
19. SOIL, WASTE, AND VENT PIPING SHALL BE SCHEDULE 40 DWV PVC PLASTIC PIPE WITH SOLVENT WELDED JOINTS FOR ALL SOIL, WASTE AND VENT PIPING. PLASTIC PIPE MAY ONLY BE USED IF APPROVED BY PLUMBING AND FIRE CODES. PLASTIC PIPE OR ANY COMBUSTIBLE MATERIAL SHALL NOT BE USED IN THE RETURN AIR CEILING PLENUM.
20. NO VENTS OR OTHER PIPES SHALL BE VISIBLE FROM THE FRONT OF THE BUILDING.
21. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES AND ALL WATER HAMMER ARRESTERS. ACCESS PANELS IN RATED WALL MUST MAINTAIN THE SAME RATING AND MUST MATCH THE FINISH OF THE WALL IN WHICH IT IS INSTALLED.
22. THESE DRAWINGS CONTAIN BOOK TYPE SPECIFICATIONS. THE PLUMBING SECTIONS OF THESE DRAWINGS AND THE SPECIFICATIONS MUST BE READ IN CONJUNCTION WITH EACH OTHER PRIOR TO BID AND CONSTRUCTION OF THIS PROJECT. ALL ARE CONSIDERED ONE DOCUMENT.
23. PROVIDE PLUMBING FIXTURES AS INDICATED, COMPLETE WITH EVERYTHING REQUIRED FOR CORRECT OPERATION. THERE SHALL BE NO EXPOSED PLASTIC PIPE OR TRAPS ON ANY PLUMBING FIXTURE. ROUND, FRONT WATER CLOSETS WILL NOT BE APPROVED.
24. FIXTURE NUMBERS ARE AMERICAN STANDARD. EQUAL PRODUCTS: CRANE, KOHLER, ELJER, DELTA, SPEAKMAN, ELKAY, CHURCH, BENEKE, BEMIS, SPERZEL, HASLEY TAYLOR, OASIS AND SUNROC.
25. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED BY EVERY APPLICABLE JURISDICTIONS IN THE PERFORMANCE OF THE WORK.
26. ALL WORK SHALL MEET THE LOCAL AND STATE, PLUMBING CODE, AND ENERGY CODE.
27. CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH ITEM OF EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE ORDERING.
28. PROVIDE OPERATIONS AND MAINTENANCE MANUALS FOR ALL EQUIPMENT.
29. ALL LOW VOLTAGE CONTROL AND INTERLOCK WIRING IS INCLUDED IN THIS DIVISION.
30. ALL SANITARY PIPE SHALL BE TERMINATED 10'-0" AWAY FROM ANY FRESH INTAKE.
31. WATER HEATER SHALL HAVE ASME P & T RELIEF VALVE WITH DISCHARGE PIPE TO DRAIN OR 10" ABOVE FINISHED GRADE.
32. WATER PIPING RUN IN ATTIC SPACES SHALL BE RUN ON HEATED SIDE OF ATTIC OR CEILING INSULATION. WATER PIPING RUN IN OUTSIDE BUILDING WALLS SHALL BE RUN ON HEATED SIDE OF WALL INSULATION.
33. PROVIDE CLEAN-OUTS WHERE INDICATED AND WHERE REQUIRED BY CODE. (75 FT FOR 4" PIPE AND 50 FT. FOR 3" PIPE. CLEAN-OUT COVER PLATES SHALL BE METAL AND HAVE TOP FLUSH WITH FINISHED WALL, FLOOR OR GRADE. WALL CLEAN-OUTS SHALL BE NO HIGHER THAN 12" ABOVE FLOOR, UNLESS OTHERWISE INDICATED. FOR DWV PVC PLASTIC PIPE SYSTEM, USE CLEAN-OUTS MANUFACTURED BY SMITH, JONESPEC, JOSAM, WADE OR ZURN.
34. CONTRACTOR IS TO SUPPLY ALL SAFETY EQUIPMENT AND SUPERVISION REQUIRED TO ASSURE A SAFE CONSTRUCTION SITE. CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL SAFETY INSPECTIONS, SUPERVISION, AND COMPLIANCE WITH ALL APPLICABLE LAWS.
35. PIPES PASSING THROUGH CONCRETE OR CINDER WALLS AND FLOORS OR OTHER CORROSIVE MATERIAL SHALL BE PROTECTED AGAINST EXTERNAL CORROSION BY A PROTECTIVE SHEATHING OR WRAPPING OR OTHER MEANS THAT WILL WITHSTAND ANY REACTION FROM LIME AND ACID CONCRETE, CINDER OR OTHER CORROSIVE MATERIAL. SHEATHING OR WRAPPING SHALL ALLOW FOR EXPANSION AND CONTRACTION OF PIPING TO PREVENT ANY RUBBING ACTION.
36. A SOIL OR WASTE PIPE OR BUILDING DRAIN PASSING UNDER A FOOTING OR THROUGH A FOUNDATION WALL, SHALL BE PROVIDED WITH A RELIEVING ARCH, OR THERE SHALL BE BUILT INTO THE MASONRY WALL A PIPE SLEEVE TWO PIPE SIZES GREATER THAN THE PIPE PASSING THROUGH OR AS MAY BE APPROVED IN WRITING BY THE PLUMBING OFFICIAL.
37. TRENCHING INSTALLED PARALLEL TO FOOTINGS SHALL NOT EXTEND BELOW THE 45 DEGREE BEARING PLANE OF THE FOOTING OR WALL UNLESS APPROVED BY THE PLUMBING OFFICIAL.
38. WHEN CLEAN-OUTS ARE INSIDE THE BUILDING, CLEAN-OUTS SHALL BE ABOVE THE FLOOD LEVEL RIM OF THE FIXTURES THAT THE HORIZONTAL PIPE SERVES WHEN PRACTICAL.
39. A SHUT OFF VALVE SHALL BE PROVIDED IN THE COLD WATER SUPPLY TO WATER HEATER AND SHALL BE ACCESSIBLE ON THE SAME FLOOR AND WITHIN 3 FT. OF THE HEATER.
40. PROVIDE VACUUM BREAKER OR ANTI-SIPHON AT THE WATER HEATER AS PER CODE.
41. UNDERGROUND WATER SERVICE PIPE AND THE BUILDING DRAIN OR BUILDING SEWER SHALL NOT BE LESS THAN 5 FT. APART HORIZONTALLY AND SHALL BE SEPARATED BY UNDISTURBED COMPACT EARTH.
42. WATER PIPE SHALL BE DISINFECTED AS PER CODE.
43. PROVIDE WATER PRESSURE REGULATOR WITH STRAINER IF THE WATER PRESSURE IS MORE THAN 80 PSI.
44. PIPE PENETRATING A FIRE RATED WALL OR FLOOR SHALL BE SEALED WITH THE FIRESTOP SEALANT AS PER U.L.
45. CONTRACTOR SHALL PROVIDE THERMAL EXPANSION TANK AT THE DOWNSTREAM OF SHUT-OFF VALVE OF THE INLET OF WATER HEATER.
46. HORIZONTAL DRAINAGE PIPING SHOULD BE INSTALLED AT A UNIFORM SLOPE. 3" DIAMETER AND SMALLER PIPE SHALL BE INSTALLED WITH A FALL OF NOT LESS THAN 1/4 INCH PER FOOT. 3" DIAMETER AND LARGER PIPE SHALL BE INSTALLED WITH A FALL OF NOT LESS THAN 1/8 INCH PER FOOT. CONTRACTOR SHALL VERIFY THE INVERT ELEVATION OF PIPING WITH CIVIL PLAN BEFORE INSTALLING THE PIPE. SEE PLUMBING CODE SECTION 704, TABLE 704.1
47. PROVIDE THE VACUUM BREAKER AT THE FOLLOWING WATER CONNECTION (SECTION 608.15.4.2):
    a. HOSE BIBS
    b. MOP SINK
48. PROVIDE DOUBLE CHECK FLOW PREVENTER AT THE DOWN STREAM OF METER AND FIRE PROTECTION SYSTEM. SEE SITE PLAN. BACK FLOW PREVENTER SHALL BE INSTALLED AS PER LOCAL AUTHORITIES' REQUIREMENTS.
    a. DOMESTIC WATER LINE AND FIRE SPRINKLER SYSTEM-(TYPE DCVA OR RPZA))
49. PROVIDE BACK-FLOW PREVENTER AT THE EQUIPMENT WHICH ARE CONNECTED DIRECTLY TO POTABLE WATER SYSTEM. E.G. COFFEE, ICE, TEA, BEVERAGE MACHINES ETC. AS PER SECTION 608.1 TO 608.17.8
50. CONTRACTOR SHALL NOT CHANGE ANY PIPING LAYOUT WITHOUT WRITTEN PERMISSION.
51. WATER PIPING SHALL NOT BE INSTALLED IN THE ATTIC OR UNHEATED AREA UNLESS OTHERWISE NOTED. IF PIPING IS INSTALLED IN THE ATTIC SPACE, THEN CONTRACTOR SHALL GET APPROVAL FROM THE ENGINEER.
52. CONTRACTOR SHALL NOT INSTALLED ANY PIPING OR FIXTURES WHICH WILL BE IMPEDIMENT TO THE TRAFFIC.
53. DO NOT RUN PIPING OR DUCT-WORK OR LOCATE EQUIPMENT (WITH RESPECT TO SWITCHBOARDS, PANEL BOARDS, POWER PANELS, MOTOR CONTROL CENTERS OR DRY TYPE TRANSFORMERS WITHIN 42" IN FRONT OF EQUIPMENT, OVER EQUIPMENT, OR WITHIN 36" HORIZONTALLY OF SAME SPACE.
54. THIS CONTRACTOR SHALL GIVE ALL ELECTRICAL AND MECHANICAL INFORMATION PERTAINING TO PLUMBING EQUIPMENT TO ELECTRICAL AND MECHANICAL CONTRACTORS BEFORE FINAL CONTRACT SO THAT ELECTRICAL AND MECHANICAL CONTRACTOR INCLUDE IN HIS CONTRACT. CONTRACTOR SHALL NOT PURCHASE ANY EQUIPMENT WITHOUT WRITTEN APPROVAL FROM ELECTRICAL AND STRUCTURAL ENGINEERS AND CONTRACTORS.
55. ANY PIPE SUBJECT TO FREEZE OR CONDENSATE SHALL BE INSULATED.
56. CO-ORDINATE LOCATION OF GARBAGE DISPOSAL WITH OWNER AND ARCHITECT.
57. ANY PIPE SUBJECT TO FREEZE SHALL BE INSULATED WIT HEAT TAPE. EXAMPLE: PIPES IN ATTIC, PARKING LOT. SANITARY PIPES TRAP IN PARKING LOT.
58. ALL WATER PIPES SHALL BE IDENTIFIED WITH PIPE MARKER LABEL WHICH INCLUDE THE CONTENTS OF THE PIPING SYSTEM AND ARROW OF FLOW DIRECTION AS PER PLUMBING CODE SECTION 608.8
59. ALL SANITARY AND STORM PIPES SHALL BE IDENTIFIED WITH PIPE MARKER LABEL WHICH INCLUDE THE CONTENTS OF THE PIPING SYSTEM AND ARROW OF FLOW DIRECTION.
60. ALL HORIZONTAL STORM SEWER PIPES SHALL BE INSULATED TO PREVENT CONDENSATION.
61. DRAINAGE OUTLET SHALL BE RODENTPROOF AS PER PLUMBING CODE SECTION 304.
62. ALL SANITARY AND WATER PIPES SHALL BE PROTECTED FROM FREEZING AS PER PLUMBING CODE SECTION 305.6 (6" BELOW FROST LINE AND NOT LESS THAN 12" BELOW GRADE.
63. ALL PIPES SUPPORT SHALL BE PROTECTED FROM WEATHER. (PAINT OR STAINLESS STEEL TO PREVENT CORROSION). SEE SECTION 308.
64. CONTRACTOR SHALL PROVIDE TRAP PRIMER TO EACH FLOOR DRAIN UNLESS OTHERWISE NOTED. CONTRACTOR SHALL USE TRAP GUARD DRAIN BY PRO-VENT SYSTEMS (1-800-262-5355,) IF IT IS PERMITTED BY THE LOCAL CODE OFFICIAL.
65. ALL PLUMBING VENT SHALL BE NOT BE VISIBLE FROM THE FRONT.

PLUMBING FIXTURE SCHEDULE

PROVIDE IN ALL PUBLIC BATHROOM HOSE BIB UNDER THE LAVATORY FOR HOUSEKEEPING PURPOSE.

P-1A FLOOR MOUNTED WATER CLOSETS (FLUSH VALVE TYPE) (HANDICAP).-BATTERY OPERATED

FIXTURE	3461.528	"AMERICAN STANDARD" 16 « HIGH ELONGATED MADERA FLOWISE 1.28 GPF VITREOUS CHINA. WATER SAVER, SIPHON JET FLUSHING ACTION. 1 1/2" TOP SPUD SUPPLY, BOLTS, AND CAPS. WATER SENSE
SEAT	521/5905.100	"BENEKE/AMERICAN STANDARD" EXTRA HEAVY DUTY SOLID PLASTIC SEAT WITHOUT COVER.
SUPPLY		"AMERICAN STANDARD" SELECTRONIC BATTERY OPERATED FLUSH VALVE. 1.28 GPF

ALTERNATE:
P-1A FLOOR MOUNTED WATER CLOSETS (FLUSH VALVE TYPE) (HANDICAP). AC POWERED

FIXTURE	3043.712	"AMERICAN STANDARD" 16 « HIGH ELONGATED MADERA FLOWISE 1.28 GPF VITREOUS CHINA. WATER SAVER, SIPHON JET FLUSHING ACTION. 1 1/2" TOP SPUD SUPPLY, BOLTS, AND CAPS. WATER SENSE
SEAT	521/5905.100	"BENEKE/AMERICAN STANDARD" EXTRA HEAVY DUTY SOLID PLASTIC SEAT WITHOUT COVER.
SUPPLY	6067.121	"AMERICAN STANDARD" SELECTRONIC AC POWERED FLUSH VALVE. 1.28 GPF

P-2A 20" x 18" WALL HUNG LAVATORY (HANDICAP).

FIXTURE	0355.012	"AMERICAN STANDARD" VITREOUS CHINA, FRONT OVERFLOW AND INTEGRAL BACK.
FAUCETS	6056.202	"AMERICAN STANDARD" INNSBROOK ELECTRONIC FAUCET WITH PROXIMITY OPERATION. VANDAL RESISTANT SOLID BRASS CONSTRUCTION. ONE 6056.202 AC-PLUG IN POWER SUPPLY FEEDS UPTO 15 6057.202 INSBROOKS" W/O POWER. INTEGRAL IN-LINE SOLENOID STRAINER, BUILT-IN CHECKS, FLEXIBLE STAINLESS STEEL 20" INLET HOSE FOR SPOUT CONNECTION SINGLE INLET 3/8 COMPRESSION.
FAUCETS	6053.202	"AMERICAN STANDARD" INNSBROOK ELECTRONIC FAUCET (BATTERY OPERATED)WITH PROXIMITY OPERATION. VANDAL RESISTANT SOLID BRASS CONSTRUCTION. ONE INTEGRAL IN-LINE SOLENOID STRAINER, BUILT-IN CHECKS,FLEXIBLE STAINLESS STEEL 20" INLET HOSE FOR SPOUT CONNECTION SINGLE INLET 3/8 COMPRESSION.
DRAIN	SG7WC	"EBC" OFFSET DRAIN WITH BRASS PERFORATED GRID DRAIN. MCGUIRE 155WC OR PW2125 PRO WRAP FACTORY INSULATED.
TRAP	TA125 8872C	"EBC" 1 1/4" P TRAP WITH CAST BRASS NUTS AND CLEANOUTS PLUG. "MCGUIRE"
SUPPLY	VA13 LF165	"EBC". "MCGUIRE

HANDI LAV-GUARD INSULATION KIT.

LAVATORY WALL HUNG SUPPORT:

JAY R. SMITH FIG. #700 FOR MASONARY WALLS AND #700-M31 FOR METAL OR WOOD STUD WALLS.

P-3A/P-3 WALL HUNG URINAL - HANDICAP

FIXTURE	6590.001	"AMERICAN STANDARD" WASHBROOK 0.125 GPF TOP SPUD URINAL
VALVE	6062.101.002	AC POWER OPERATED SELECTRONIC URINAL FLUSH VALVE.
VLAVE	6063.013.002	BATTERY OPERATED SELECTRONIC URINAL LUSH VALVE.

ALTERNATE:

P-3A/P-3 WALL HUNG URINAL - HANDICAP WATER LESS

FIXTURE	6150.100	"AMERICAN STANDARD" FLOWISE WATRLESS URINAL VITREOUS CHINA, DRAIN INSERT, MOUNTING HARDWARE, WALL BRACKET, DRAIN FLANGE COUPLER, ODOR BARRIER LIQUID, INSERT KEY, DRAIN INSERT
FIXTURE	6154.100	MEDIUM
FIXTURE	6155.100	SMALL

URINAL WALL HANGER:

P-4 MOP SINK (SERVICE SINK)

FIXTURE	TSBCR1000	FIAT 28 X 28 X 12, A COMBINATION DOME STRAINER AND LINT BASKET MADE FROM STAINLESS STEEL.
FAUCET	PLATE NO. 830-AA	FIAT CHROME PLATED WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACKET, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT.
HOSE AND AND HOSE BRACKET	PLATE NO. 832-AA	30" HOSE.
MOP HANGER	PLATE NO. 889-C	MOP HANGER 24"

P-5A SHOWER

SHOWER	TILE.	
FAUCET	552HSB	SYMMONS SHOWER/HAND SHOWER SYSTEM WITH SLIDE BAR, VACUUM BREAKER, SHOWER HEAD, HOSE AND 1.5 GPM FLOW RATE RESTRICTOR, AND TEMPTROL VALVE
DRAIN	2010A-02P050-BB "JAY R. SMITH"	

P-6A HAND WASH STAINLESS STEEL SINK

SINK	600HS172H	REGENCY 17" X 15" x 5 «" GOOSENECK SINK WITH STRAINER BASKET
FAUCET	600FW44GLL	GOOSENECK SINK
TRAP	TA150	"EBC" 1-1/2" X 1 -1/2" P-TRAP WITH CAST BRASS NUTS AND CLEANOUT PLUG.

P-7 REFRIGERATOR-ICE MAKER

OATLEY	39186	OATLEY ICE MAKER BOX

P-8A 33" X 22" X 6 1/2" DOUBLE COMPARTMENT SINK
(1174-KS WILL NOT WORK WITH SPRAYER)

FIXTURE	DL-ADA-2233-A-GR	" JUST " SELF RIMMING TYPE STAINLESS STEEL DOUBLE COMPARTMENT KITCHEN SINK
FAUCET	J-902	SINGLE LEVER WASHERLESS MIXING FAUCET WITH ESCUTCHEON AND 8" SPOUT AERATOR AND SPRAYER
DRAIN	J-ADA-35	STAINLESS STEEL CUP STRAINER WITH REMOVABLE STAINLESS STEEL BASKET. BASKET HAS RUBBER SEAT STOPPER. 1 1/2" OD CHROME PLATED BRASS OFFSET TAILPIECE.
SUPPLY	VA13 LF165	"EBC" "MCGUIRE"

CONTRACTOR SHALL NOT PURCHASE SINK WITHOUT VERIFYING WITH CABINET MANUFACTURER AND ARCHITECT. MAKE SURE THAT SINK WILL FIT INTO CABINET COUNTERTOP.

P-9 DISHWASHER

SUPPLIED BY OTHERS AND INSTALLED BY THIS CONTRACTOR.

ELECTRIC WATER HEATER-EWH-1:

RHEEM ES50-6, 50 GALLON TANK, 6.0 KW, RECOVERY 25 GPH AT 100 DEG F RISE, 29 AMPS@ 208/1/60 VOLTS.

ELECTRIC WATER HEATER-EWH-2:

RHEEM ES50-15, 50 GALLON TANK, 15.0 KW, RECOVERY 62 GPH AT 100 DEG F RISE, 42 AMPS@ 208/3/60 VOLTS.
62

CO-EXPOSED CLEANOUT-UNFINISHED AREAS:

JAY R. SMITH FIG. 4470/MIFAB C1430 CAST BRONZE COUNTERSINK PLUG WITH SLOT TO RECEIVE 1/2" THICK STEEL BAR STOCK.

WCO-WALL CLEANOUT - FINISHED AREAS:

JAY R. SMITH FIG. 4436/MIFAB C1450-R-1 CAST IRON FERRULE FOR NO HUB OR SERVICE WEIGHT PIPE . NICKEL BRONZE ROUND FRAME AND COVER WITH SECURING SCREWS.

FCO-CONCRETE FLOORS:

JAY R. SMITH FIG. 4238L/MIFAB C1100-XR-P-4 CAST IRON CLEANOUT WITH GASKET SEAL, THREADED PLUG FOR EASY REMOVAL, ADJUSTABLE ROUND CAST IRON TOP WITH SECURING SCREWS. SPEEDI -SET OUTLET CONNECTION.

FCO-TILE FLOORS:

JAY R. SMITH FIG. 4151/MIFAB C1100-T-P-1 CAST IRON CLEANOUT WITH GASKET SEAL, THREADED PLUG FOR EASY REMOVAL, ADJUSTABLE ROUND NICKEL BRONZE TOP RECESSED FOR TILE WITH SECURING SCREWS. SPEEDI -SET OUTLET CONNECTION.

FCO-CARPETED FLOORS:

JAY R. SMITH FIG. 4031-Y/MIFAB C110P-R-P-1 CAST IRON CLEANOUT WITH GASKET SEAL, THREADED PLUG FOR EASY REMOVAL, ADJUSTABLE ROUND NICKEL BRONZE TOP COMPLETE WITH STAINLESS STEEL CARPET MARKER WITH SECURING SCREWS. SPEEDI -SET OUTLET CONNECTION.

YCO-EXTERIOR PAVED/CONCRETE AREAS:

JAY R. SMITH FIG. 4261-U/MIFAB C1300-M-6-W/C1230. CAST IRON FLANGED HOUSING WITH HEAVY DUTY CAST IRON COVER , LIFTING DEVICE. GASKET SEAL THREADED PLUG, V. P. SCREWS IN COVER.

YCO-EXTERIOR UNSURFACED AREAS:

JAY R. SMITH FIG. 4261-U/MIFAB C1300- 6 W/C2130. CAST IRON FLANGED HOUSING WITH HEAVY DUTY CAST IRON COVER , LIFTING DEVICE. GASKET SEAL THREADED PLUG, V. P. SCREWS IN COVER. CLEANOUT SHALL BE SET IN 24" X 12" CONCRETE PAD FLUSH WITH SURFACE.

2" FD-FLOOR DRAINS-REST ROOM/SHOWER:

JAY R. SMITH FIG. 2010A-02P050-BB/MIFAB F1100X-C-1-7 ROUND TOP AND CAULK OUTLET WITH TRAP PRIMER CONNECTION.

LAVATORY WALL HUNG SUPPORT:

JAY R. SMITH FIG. #700 FOR MASONARY WALLS AND #700-M31/MIFAB MC-41 FOR METAL OR WOOD STUD WALLS.

WH-WALL HYDRANT EXPOSED:

JAY R. SMITH FIG. 5609QT/MIFAB MHQ-26 NON-FREEZE 3/4" CAST BRONZE HYDRANT WITH BRONZE CASING, INTEGRAL VACUUM BREAKER, CHROME PLATED FACE , AND SIZED IN ACCORDANCE WITH WALL THICKNESS. PROVIDE WITH KEY HANDLE.

HB-HOSE BIBB:

WOODFORD #24/MIFAB HY-9040 W/HY-9000 HOSE BIBBFOR INSIDE USE WITH VACUUM BREAKER, BACKFLOW PREVENTER.

BACKFLOW PREVETNER AT BEVERAGE, COFFEE AND TEA MACHINE ETC.

WATTS 9BD

PROVIDE WATER FILTER FOR BEVERAGE, COFFEE, TEA, AND ICE MACHINE.

NOTES: 1) HANDICAP FIXTURES SHALL BE INSTALLED ACCORDING TO HANDICAPPED CODE REQUIREMENTS.

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WHITFIELD REIVERBEND PARK PRINTED DATE: 09/28/20

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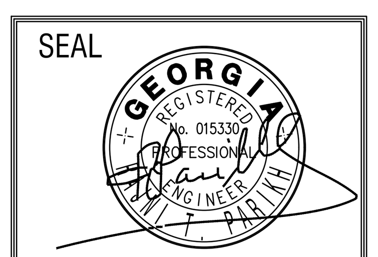


WHITFIELD COUNTY RIVERBEND PARK CONCESSION STAND
DALTON, GA

SHEET TITLE:
PLUMBING FIXTURES SCHEDULE
PLUMBING GENERAL NOTES

PRINTED: 09/28/20

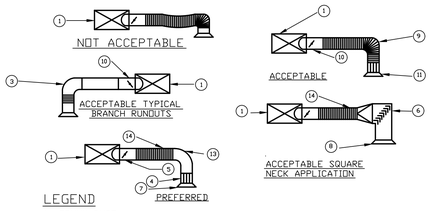
NUMBER: P-3

LEGEND

D	CONDENSATE DRAIN
	EXHAUST AIR
SA	SUPPLY AIR
RA	RETURN AIR
	FIRE DAMPER WITH ACCESS PANEL.
T	THERMOSTAT (PROGRAMMABLE)
A-8-100 — CFM / NECK SIZE / AIR DISTRIBUTION DEVICE SEE SCHEDULE.	
	SPIN IN FITTING WITH MANUAL VOLUME DAMPER
MVD	MANUAL VOLUME DAMPER
	CONTINUOUS LINE INDICATES NEW DUCTWORK

KEY NOTES:

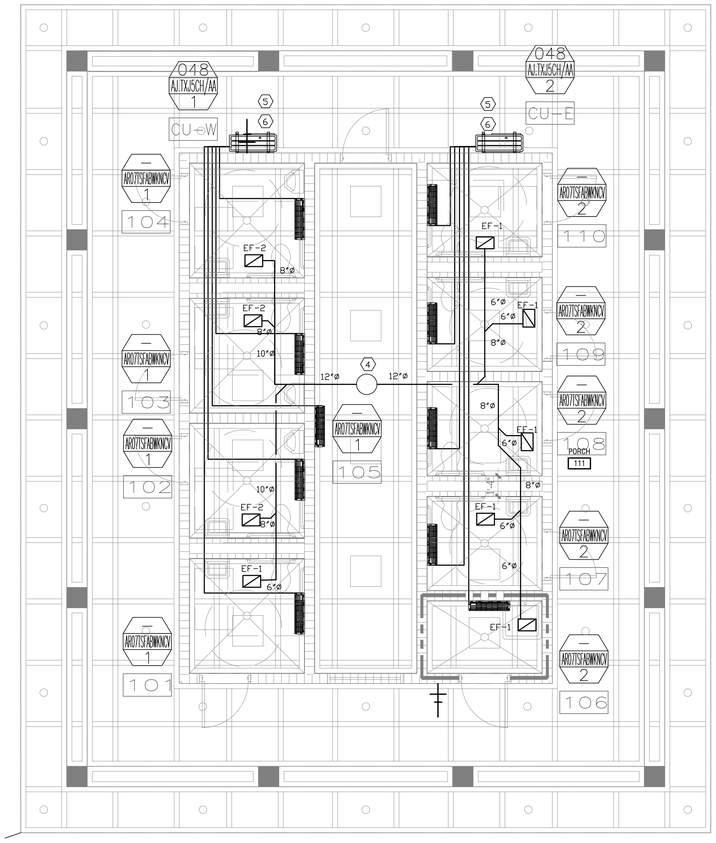
1. 6"ø EXHAUST DUCT UP THRU ROOF WITH VENT CAP
2. 8"ø EXHAUST DUCT UP THRU ROOF WITH VENT CAP
3. 10"ø FRESH AIR INTAKE DUCT UP THRU ROOF WITH VENT CAP
4. 16"ø EXHAUST DUCT UP THRU ROOF WITH VENT CAP
5. MAINTAIN CLEARANCES AROUND AND BETWEEN UNITS AS RECOMMENDED BY MANUFACTURER.
6. MOUNT CONDENSING UNIT HIGH ON THE WALL.



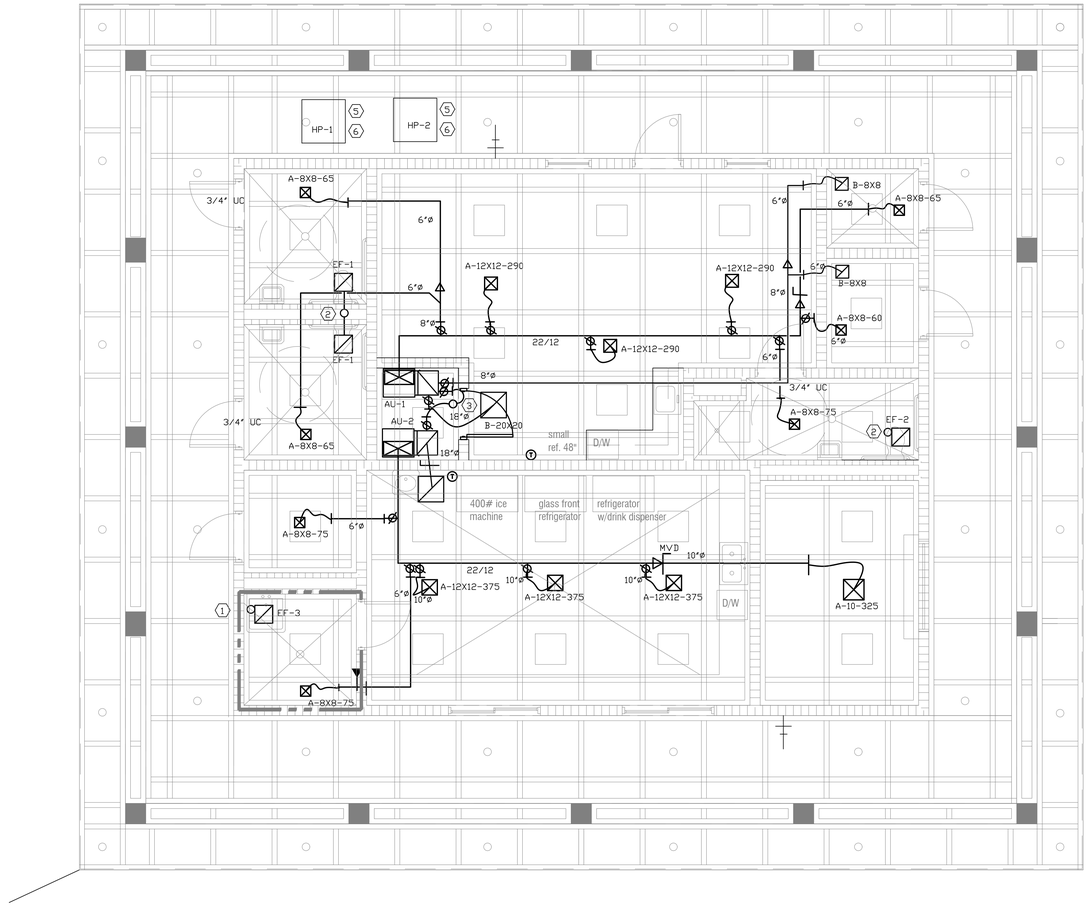
LEGEND

1 TRUNK DUCT
2 FLEXIBLE DUCT
3 FULL RADIUS ELBOW
4 STRAIGHTENING VANES TO ADJUST AIR EVENLY OVER DIFFUSER
5 SPIN IN CONN. W/SCOOP AND DAMPER. DO ALL ROUGH BALANCING AT THIS DAMPER. (TYPICAL)
6 SQUARE ELBOW WITH TURNING VANES. DISTRIBUTION VANES IN DIFFUSER NOT REQUIRED.
7 ROUND NECK DIFFUSER WITH VOLUME DAMPER FOR FINISH BALANCING ONLY.
8 SQUARE NECK DIFFUSER WITH VOLUME DAMPER FOR FINISH BALANCING ONLY.
9 DUCT SUPPORTED TO PROVIDE EQUIVALENT OF FULL RADIUS ELBOW. SUBMIT DETAILS.
10 SPIN IN WITH DEFLECTOR AND DAMPER .
11 VANES AND DIFFUSER AS BELOW.
12 ROUND DUCT.
13 FULL RADIUS SHEET METAL ELBOW.
14 FLEXIBLE DUCT. SUPPORT TO PREVENT SAG.

TYPLICAL FLEXIBLE DUCT CONNECTIONS
NO SCALE



FLOOR PLAN-HVAC
1/4"=1'-0"



FLOOR PLAN-HVAC
1/4"=1'-0"

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GEORGIA REGISTERED No. 015335 PROFESSIONAL ENGINEER

WHITFIELD COUNTY RIVERBEND PARK CONCESSION STAND
DALTON, GA

SHEET TITLE:
FLOOR PLANS-HVAC
LEGEND & DETAIL

PRINTED: 09/28/20

NUMBER:
M-1

WHITFIELD REIVERBEND PARK PRINTED DATE: 09/28/20

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FJM (FREE JOINT MULTI) MULTI-SPLIT SCHEDULE

TAGGING		UNIT TAG	CU-E, CU-W
		SERVING	FCU-101 TO 110
OUTDOOR UNIT	MODEL	#	AJ048TJJ5CH/AA
	USA MODEL	#	JXH48JST
	NUMBER OF PORTS	–	5
	COOLING CAPACITY	BTU/H	47,000
	MIN. COOLING CAPACITY	BTU/H	8,500
	HEATING CAPACITY	BTU/H	48,500
	MIN. HEATING CAPACITY	BTU/H	7,000
PERFORMANCE	SEER (DUCTED)	–	16.0
	SEER (MIXED)	–	17.9
	SEER (NON-DUCTED)	–	19.7
	EER (DUCTED)	–	8.6
	EER (MIXED)	–	9.6
	EER (NON-DUCTED)	–	10.5
	HSPF (DUCTED)	–	9.2
	HSPF (MIXED)	–	18.1
	HSPF (NON-DUCTED)	–	10.3
POWER	VOLT/ PHASE/ Hz	–	208-230 / 1 / 61
	MCA	AMPS	52.0
	MOCP	AMPS	55.0
OUTDOOR UNIT DIMENSIONS	DIMENSIONS (W X H X D)	IN. / IN. / IN.	37 x 47.625 x 13
	WEIGHT	LBS	192.9
OPERATING TEMPERATURE	COOLING	°F	14 ? T ? 114.8
	HEATING	°F	5 ? T ? 75
PIPE CONNECTIONS	LIQUID CONNECTION	IN.	1/4 in. X 5
	SUCTION CONNECTION	IN.	3/8 in. X 2 + 1/2 in. X 3
	INCLUDED PIPE ADAPTERS	IN.	(3) 1/2 X 3/8, (2) 1/2 X 5/8
	MAX. INDIVIDUAL LENGTH	FT.	82
	MAX. TOTAL LENGTH	FT.	230
	MAX. VERTICAL (ODU TO IDU)	FT.	49
	MAX. VERTICAL (HIGH TO LOW IDU)	FT.	25
CONDENSER FAN	CFM	MAX	3,885
CERTIFICATIONS	ENERGY STAR? CERTIFIED	–	ETL (UL1995)
NOTES			1-3

FJM CONDENSING UNIT NOTES

1. BASIS OF DESIGN: SAMSUNG MODEL FJM.
2. PROVIDED 10-YEAR COMPRESSOR, 10-YEAR PARTS AND 1-YEAR LIMITED LABOR WARRANTY WITH PRODUCT REGISTRATION.
3. CONTRACTOR TO PROVIDE WIND-RATED CONDENSER WALL BRACKETS.

FJM WALL MOUNTED QUANTUM 2.0

INDOOR UNIT	UNIT TAG	–	FCU-101 TO 110
	CONNECTS TO CU	TAG	CU-E, CU-W
	TYPE	–	WALL MOUNTED
	MODEL	#	AR07TSFYBWKNCV
	USA MODEL	#	RN5079BT
AIRFLOW	CFM COOLING	(L / M / H / T)	350 / 336 / 322 / 309
	CFM HEATING	(L / M / H / T)	381 / 368 / 354 / 340
	EXTERNAL STATIC PRESSURE	MIN / STND / MAX	–
CAPACITY RANGE	NOMINAL COOLING CAPACITY	BTU/H	7,000
	NOMINAL HEATING CAPACITY	BTU/H	7,500
POWER	ELECTRICAL	V / PH / HZ	208-230 / 1 / 60
PHYSICAL DATA	LIQUID PIPE CONNECTION	IN	1/4
	GAS PIPE CONNECTION	IN	3/8
	DIMENSIONS (W X H X D)	IN. / IN. / IN.	32.28 x 11.77 x 8.46
	WEIGHT	LBS	20.1
	NOTES	–	1-8

FJM WALL MOUNTED NOTES

1. BASIS OF DESIGN: SAMSUNG.
2. UNIT SHALL SHIP WITH A WIRELESS CONTROLLER AND BATTERIES AS A STANDARD.
3. THE INDOOR UNIT SHALL HAVE WI-FI CAPABILITY AS STANDARD
4. ALL UNITS ARE HEAT PUMP AND CAN BE CONVERTED TO COOLING ONLY THRU PROGRAMMING IN CONTROLLERS.
5. OUTDOOR UNIT SHALL PROVIDE 208/230V POWER TO INDOOR UNIT VIA 14 AWG X 3 INTERCONNECT POWER CABLE
6. PROVIDE ADVANCED WIRED CONTROLLER W/ DUAL SETPOINT TEMPERATURES (PROGRAMMABLE) MN: MWR-WG00UN WITH COMMUNICATION MODULE (REQUIRED FOR ALL WIRED CONTROLLERS) MN: MIM-A00UN
7. PROVIDE CONDENSATE PUMP MN: ASP-MO-UNIV 110-250, 115-230V MINI PUMP FOR WALL UNITS UP TO 24K BTU, 33' HEAD, 5.0' SUCTION LIFT
8. PROVIDED 10-YEAR COMPRESSOR, 10-YEAR PARTS WARRANTY WITH PRODUCT REGISTRATION.

SPLIT SYSTEM HEAT PUMP A/C UNIT SCHEDULE

MARK	COOLING CAPACITY		HEATING CAPACITY		FAN DATA			MANUFACTURER	MODEL	O.A.	HSPF	COP @17°F	SEER/EER	REMARKS	VOLTS	MCA	BRKR
	TOTAL	SENSIBLE	@ 17° DB	AUX. HEAT	CFM	SP	HP										
HP-1 AU-1	35,000	27,830	20,800	7.5 KW	1200	0.6	1/2	CARRIER	25HPB636 FX4DNF049	150	8.50	2.86	16/13	1,2,3,4,5,6,7,8,9,10,11	208/1/60	21.6 53.8	35/2 60/2
HP-2 AU-2	48,730	40,130	29,600	7.5 KW	1600	0.6	3/4	CARRIER	25HPB648 FX4DNF061	75	9.0	2.74	16/13	1,2,3,4,5,6,7,8,9,10,11	208/1/60	31.8 53.8	45/2 60/2

1. FILTER
2. HORIZONTAL/VERTICAL AIRHANDLER
3. CAPACITY BASED ON 80°F DB, 67°F WB, ENTERING AIR TEMPERATURE AND 95°F DB O.A.TEMP.
4. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.
5. EXTERNAL STATIC PRESSURE DROP DOES NOT INCULDE COOLING COIL PRESSURE DROP.
6. EXPANSION VALVE, FILTER DRIER, SIGHT GLASS, SERVICE VALVES, LOW PRESSURE LOCK-OUT, HIGH PRESSURE SWITCH.
7. REFRIGERANT= PURON
8. LOW AMBIENT KIT. OUTDOOR THERMOSTAT, CRANKCASE HEATER, EVAPORATOR FREEZE THERMOSTAT, MOTOR MASTER CONTROL, ISOLATION RELAY, VARIABLE SPEED CONDENSOR FAN MOTOR
9. HEAD PRESSURE CONTROLLER.
10. IF REFRIGERANT LINE IS MORE THAN 80'-0" THAN PROVIDE LIQUID LINE SOLENOID VALVE AND SUBMIT MANUFACTURER'S APPROVED REFRIGERANT PIPES ISOMETRICS.
11. MAX. SOUND LEVEL=75 DBA.

AIR DISTRIBUTION SCHEDULE

MARK	DESCRIPTION	KRUEGER MODEL	TITUS	PANEL SIZE	REMARKS
A	NAILOR "61DV-0" SUPPLY AIR DOUBLE DEFLECTION REGISTER. SEE FLOOR PLAN FOR SIZE.	880-V-DBD	272RL	SEE FLOOR PLAN	1,2,3
B	NAILOR "6145H" RETURN AIR GRILLE. SEE FLOOR PLAN	580H	25R	SEE FLOOR PLAN	1

1. STEEL. FINISH AND BORDER SHALL MATCH CEILING. SEE ARCHITECT DRAWING FOR THE TYPE OF CEILING.
2. MANUAL VOLUME DAMPER.
3. FACTORY INSULATED DIFFUSER AT UNCONDITIONED AREA OR NO RETURN AIR PLENUM.

FAN SCHEDULE

MARK	CFM	EXP.SP	RPM	T.S.	SONES	H.P.	MANUFACTURER	MODEL #	ROOF OPENING	WEIGHT	REMARKS
EF-1	75	0.25	717	1173	1.3	1/18	PENN	ZJ1	–	–	1,2
EF-2	150	0.25	770	1360	1.6	1/12	PENN	ZBS	–	–	1,2
EF-3	100	0.25	686	1212	1.4	1/25	PENN	ZB1S	–	–	–

1. SPEED CONTROLLER.
2. CEILING MOUNTED WITH BACKDRAFT DAMPER.

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GEORGIA REGISTERED PROFESSIONAL ENGINEER

WHITFIELD COUNTY RIVERBEND PARK CONCESSION STAND
DALTON, GA

SHEET TITLE:
EQUIPMENT SCHEDULE

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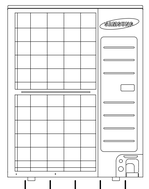
NUMBER:
M-2

CU-E(AJ048TXJ5CH/AA)

Cooling Capa / Heating Capa
47000(0)BTU/h / 48500(0)BTU/h



Pipe Size : 1/4" / 3/8"
Pipe Length : 30.19ft / 30.19ft / 0
106(AR07TSFABWKNCV)
Cooling Capa / Heating Capa
7000(0)BTU/h / 7500(0)BTU/h

Pipe Size : 1/4" / 3/8"
Pipe Length : 8.19ft / 8.19ft / 0
107(AR07TSFABWKNCV)
Cooling Capa / Heating Capa
7000(0)BTU/h / 7500(0)BTU/h

Pipe Size : 1/4" / 3/8"
Pipe Length : 30.34ft / 30.34ft / 0
108(AR07TSFABWKNCV)
Cooling Capa / Heating Capa
7000(0)BTU/h / 7500(0)BTU/h

Pipe Size : 1/4" / 3/8"
Pipe Length : 15.90ft / 15.90ft / 0
109(AR07TSFABWKNCV)
Cooling Capa / Heating Capa
7000(0)BTU/h / 7500(0)BTU/h

Pipe Size : 1/4" / 3/8"
Pipe Length : 22.74ft / 22.74ft / 0
110(AR07TSFABWKNCV)
Cooling Capa / Heating Capa
7000(0)BTU/h / 7500(0)BTU/h

CU-W(AJ048TXJ5CH/AA)

Cooling Capa / Heating Capa
47000(0)BTU/h / 48500(0)BTU/h

Pipe Size : 1/4" / 3/8"
Pipe Length : 25.13ft / 25.72ft / 1
101(AR07TSFABWKNCV)
Cooling Capa / Heating Capa
7000(0)BTU/h / 7500(0)BTU/h

Pipe Size : 1/4" / 3/8"
Pipe Length : 18.73ft / 19.32ft / 1
102(AR07TSFABWKNCV)
Cooling Capa / Heating Capa
7000(0)BTU/h / 7500(0)BTU/h

Pipe Size : 1/4" / 3/8"
Pipe Length : 9.45ft / 10.04ft / 1
103(AR07TSFABWKNCV)
Cooling Capa / Heating Capa
7000(0)BTU/h / 7500(0)BTU/h

Pipe Size : 1/4" / 3/8"
Pipe Length : 27.95ft / 28.54ft / 1
104(AR07TSFABWKNCV)
Cooling Capa / Heating Capa
7000(0)BTU/h / 7500(0)BTU/h

Pipe Size : 1/4" / 3/8"
Pipe Length : 37.16ft / 37.75ft / 1
105(AR07TSFABWKNCV)
Cooling Capa / Heating Capa
7000(0)BTU/h / 7500(0)BTU/h

PIPING DIAGRAMS

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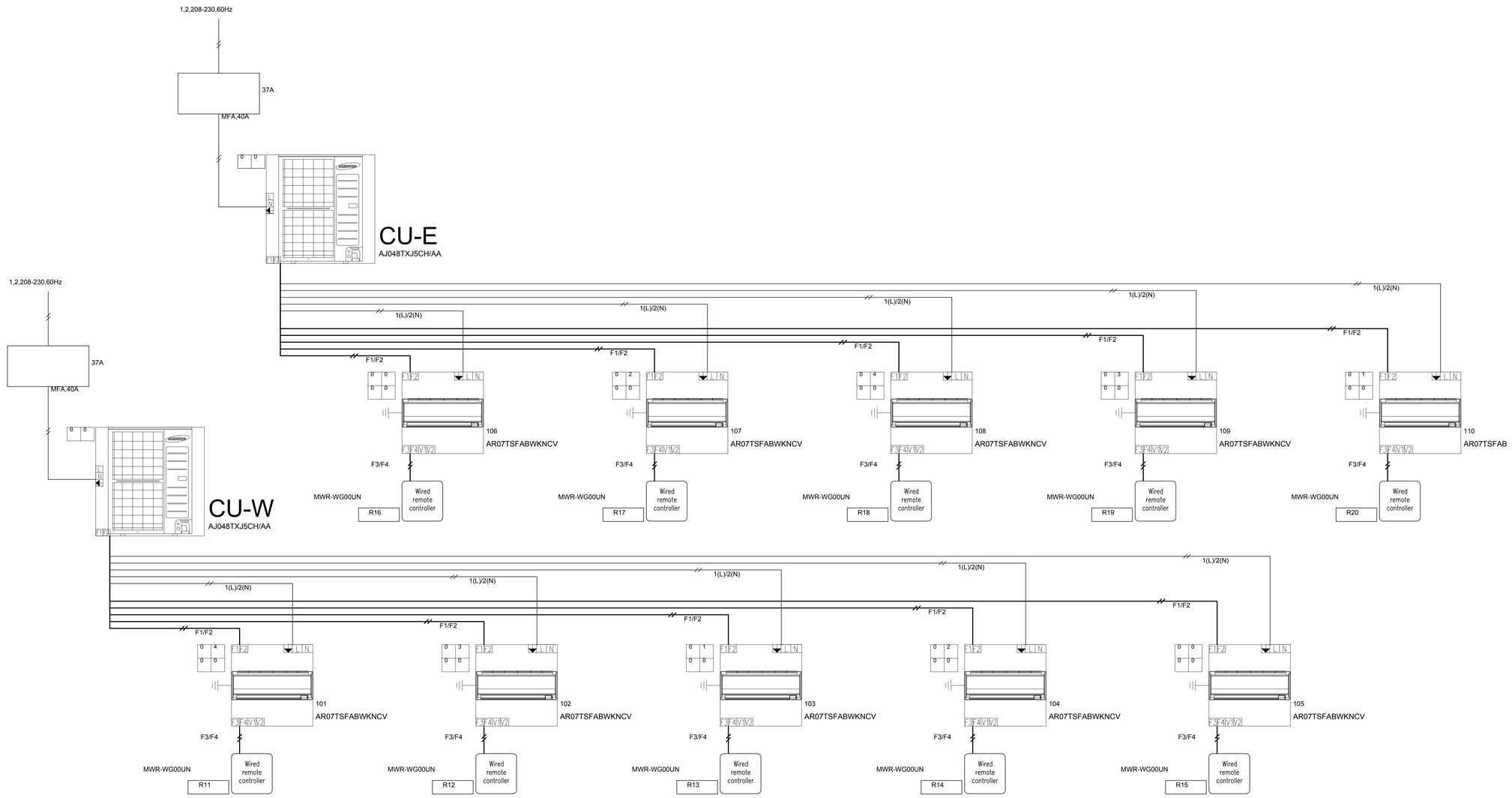

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NUMBER:
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HVAC GENERAL NOTES

1. CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT ANY CONFLICTS OF WORK PRIOR TO PURCHASE OF EQUIPMENT OR COMMENCEMENT OF WORK. CONTRACTOR SHALL NOT FABRICATE ANY DUCTWORK WITHOUT COORDINATING WITH OTHER DISCIPLINES AND VERIFYING CLEARANCE FOR THE DUCTWORK.
2. NO EQUIPMENT SHALL BE VISIBLE FROM THE FRONT.
3. CHECK FLOOR JOIST FOR DUCT SPACING.
4. CONTRACTOR SHALL VISIT THE JOB SITE AND HAVE A GOOD WORKING KNOWLEDGE AND ACQUAINTANCE OF THE EXISTING JOB SITE AS WELL AS THE CONDITIONS OF THE JOB SITE AND INCLUDE A STATEMENT ON HIS BID THAT HE HAS DONE SO.
5. DEVIATIONS FROM MATERIAL, METHODS, AND PROCEDURES SET FORTH HEREIN MUST BE APPROVED IN WRITING WITH EQUIPMENT AND INSTALLATION SUBMITTALS.
6. CONTRACTOR SHALL REVIEW STRUCTURAL, ELECTRICAL, AND ARCHITECTURAL DRAWINGS BEFORE FABRICATING OR INSTALLING DUCTWORK OR EQUIPMENT TO AVOID ANY CONFLICTS.
7. FIRE DAMPERS SHALL BE RUSKIN MODEL D-IBD2 TYPE "B" WITH 1 ½ HR RATING. (VERIFY RATING BEFORE SPECIFYING).
8. REQUEST FOR PAYMENT FOR ADDITIONAL COST DUE TO SITE CONDITIONS WILL NOT BE ALLOWED.
9. ALL DUCT DIMENSIONS ARE INSIDE CLEAR
10. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED BY EVERY APPLICABLE JURISDICTION FOR THE PERFORMANCE OF THE WORK.
11. ALL WORK SHALL MEET THE LOCAL AND STATE, HEATING AND AIR-CONDITIONING, AND ENERGY CODES.
12. SHEET METAL DUCTWORK SHALL BE GALVANIZED STEEL SHEETS OF THICKNESS AS RECOMMENDED, CONSTRUCTED AND DETAILED IN THE LATEST SMACNA CONSTRUCTION STANDARDS. NO FIBERGLASS DUCTWORK SHALL BE USED.
13. ON DUCTWORK SIZES; FIRST DIMENSION GIVEN IS SIDE SHOWN.
14. DUCT TURNS MAY BE ROUND OR SQUARE. ROUND ELBOWS SHALL HAVE INSIDE RADIUS NOT LESS THAN DUCT WIDTH. SQUARE ELBOWS SHALL HAVE SINGLE THICKNESS WALL TURNING VANES.
15. SUPPLY, RETURN, AND OUTSIDE AIR INTAKE DUCTWORK SHALL BE INSULATED WITH 3 INCH THICK BLANKET, TYPE 75 WITH REINFORCED FOIL FACE VAPOR BARRIER, U. L. LISTED. (SEE STANDARD MECHANICAL AND ENERGY CODE). ANY AIR SUPPLYING EQUIPMENT (GRILLES, DIFFUSER, REGISTERS, AHU, AND OTHERS) LOCATED IN A NON-AIR-CONDITIONING AREA AND WHICH ARE SUBJECT TO FORM CONDENSATION ON THE SURFACE SHALL BE INSULATED. ALL SUPPLY AND RETURN DUCTS AND PLENUM SHALL BE INSULATED WITH A MINIMUM OF R-5 INSULATION WHEN LOCATED IN UNCONDITIONED SPACES AND WITH A MINIMUM OF R-8 INSULATION WHEN LOCATED OUTSIDE THE BUILDING (E.G. ATTIC).
16. CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE ORDERING.
17. SYSTEM SHALL BE AIR BALANCED.
18. FLEX DUCT SHALL NOT EXCEED 8'-0" IN LENGTH. FINAL 4'-0",(INCLUDING THE ELBOW AT THE DIFFUSER), TO DIFFUSER SHALL BE GALVANIZED DUCT. FLEX DUCT SHALL BE USED ONLY ON LAY-IN CEILING.
19. ALL ROUND DUCT SHALL BE PROPERLY WRAPPED, TAPED AND SUPPORTED SO AS TO REDUCE NOISE AND VIBRATION.
20. PROVIDE OPERATIONS AND MAINTENANCE MANUALS FOR ALL EQUIPMENT.
21. ALL LOW VOLTAGE (24 VOLTS AND BELOW) CONTROL AND INTERLOCK WIRING IS INCLUDED IN THIS DIVISION.
22. SMOKE DETECTORS SHALL BE PROVIDED AT ALL EQUIPMENT SUPPLYING OR EXHAUSTING GREATER THAN 2000 CFM OR SERVING MEANS OF EGRESS (CORRIDOR)IN THE RETURN DUCT (CORRIDOR) PRIOR TO OUTDOOR AIR CONNECTIONS AND SUPPLY AIR DUCT (Ga. Amendments).
    a. SMOKE DETECTORS ARE NOT REQUIRED IN THE RETURN/SUPPLY AIR SYSTEM WHERE CONNECTION ACCORDING TO NFPA-90A, MECHANICAL CODE SECTION606, AND LOCAL CODES. AIR SYSTEM WHERE ALL PORTIONS OF THE BUILDING SERVED BY THE AIR DISTRIBUTION SYSTEM ARE PROTECTED BY AREA SMOKE DETECTORS CONNECTED TO A FIRE ALARM SYSTEM IN ACCORDANCE WITH THE INTERNATIONAL FIRE CODE.
23. THE SMOKE DETECTOR ACTIVATION SHALL CAUSE A VISUAL AND AN AUDIBLE SIGNAL IN A NORMALLY OCCUPIED AREA, AND SMOKE DETECTOR TROUBLE CONDITIONS SHALL BE INDICATED VISUALLY OR AUDIBLY IN A NORMALLY OCCUPIED AREA AND SHALL BE IDENTIFIED AS AIR DUCT DETECTOR TROUBLE. (COORDINATE WITH FIRE ALARM CONTRACTOR). CONTRACTOR SHALL PROVIDE AND INSTALL SMOKE DETECTORS UNLESS OTHERWISE NOTED. COORDINATE WITH ELECTRICAL AND FIRE ALARM CONTRACTOR FOR THE TYPE OF SMOKE DETECTOR.
24. EACH AIR DISTRIBUTION SYSTEM SHALL BE PROVIDED WITH NOT LESS THAN ONE MANUALLY OPERABLE MEANS TO STOP THE OPERATION OF SUPPLY, RETURN, AND EXHAUST FANS IN AN EMERGENCY. THE MEANS OF MANUAL OPERATION SHALL BE LOCATED AT AN APPROVED LOCATION.
25. RUN MIN. 3/4" OR FULL SIZE OF UNIT CONNECTION CONDENSATE DRAIN FROM UNIT TO THE APPROVED PLACE OF DISPOSAL AS PER MECHANICAL CODE SECTION 307.2. PROVIDE CONDENSATE DRAIN PUMP IF NECESSARY.
26. AIR-CONDITIONING UNITS SHALL HAVE FACTORY INSTALLED VIBRATION (INTERNAL) ISOLATORS.
27. DIFFUSERS ARE TO BE CONNECTED TO DUCTWORK WITH SPIN-IN FITTING EXTRACTOR AND MANUAL VOLUME DAMPER. EXACT LOCATION OF ALL DIFFUSERS TO BE COORDINATED WITH LIGHTING LAYOUT AND REFLECTED CEILING PLAN.
28. AIRFOIL SHAPED SPLITTER DAMPER IS REQUIRED AT EACH DUCT SPLIT WHERE ANY DUCT DIMENSION EXCEEDS 8". PROVIDE LOCKING QUADRANT.
29. ADJUSTABLE, MULTI-BLADE EXTRACTOR SHALL BE REQUIRED AT EACH BRANCH DUCT TAKEOFF WHERE NO OTHER PROVISION HAS BEEN MADE TO DIVERT THE AIR.
30. CONTRACTOR SHALL COORDINATE WITH OTHER DISCIPLINES AND CHECK CLEARANCES TO PREVENT ANY CONFLICTS.
31. PROVIDE REGISTERS AND GRILLES THAT MATCH MOUNTING SURFACE FINISHES AS APPROVED BY THE ARCHITECT.
32. COORDINATE GRILLE AND DIFFUSER LOCATIONS WITH REFLECTED CEILING PLAN.
33. FLEXIBLE DUCT SHALL BE THERMAFLEX M-KC. (SEE LOCAL AND STANDARD MECHANICAL CODE).
34. MOUNT ALL THERMOSTATS AT 4'-6" AFF.(TOP)
35. PROVIDE LOCKING COVER FOR EACH THERMOSTATS.
36. BRANCH DUCT FROM MAIN TO THE DIFFUSER SHALL BE SAME SIZE OF DIFFUSER NECK CONNECTION UNLESS OTHERWISE NOTED.
37. ALL CONDENSING UNITS SHALL BE MOUNTED ON 4" HIGH CONCRETE PAD AND PROVIDE CLEARANCE AROUND AND THE UNITS AS RECOMMENDED BY THE MANUFACTURER.
38. CONTRACTOR SHALL PREPARE COMPLETE ISOMETRIC DRAWINGS OF REFRIGERANT PIPING AND SHALL BE APPROVED BY THE MANUFACTURER. CONTRACTOR SHALL SUBMIT MANUFACTURER APPROVED DRAWINGS TO THE ARCHITECT WITH MANUFACTURER LETTER STATING THAT REFRIGERANT PIPING IS IN ACCORDANCE WITH FACTORY RECOMMENDATIONS AND WILL NOT HARM EQUIPMENT.
39. PROVIDE AUXILIARY DRAIN PAN UNDER THE UNIT AS REQUIRED BY LOCAL AND STANDARD MECHANICAL CODE SECTION 307.
    a. AN AUXILIARY DRAIN PAN WITHOUT A SEPARATE DRAIN LINE SHALL BE PROVIDED UNDER THE COILS ON WHICH CONDENSATE WILL OCCUR. SUCH PAN SHALL BE EQUIPPED WITH A WATER LEVEL DETECTION DEVICE THAT WILL SHUT-OFF THE EQUIPMENT SERVED PRIOR TO OVERFLOW OF THE PAN.
    b. AN AUXILIARY DRAIN PAN WITH A SEPARATE DRAIN SHALL BE PROVIDED UNDER THE COILS ON WHICH CONDENSATION WILL OCCUR. THE AUXILIARY PAN DRAIN SHALL DISCHARGE TO A CONSPICUOUS POINT OF DISPOSAL TO ALERT OCCUPANTS IN THE EVENT OF A STOPPAGE OF THE PRIMARY DRAIN. THE PAN SHALL HAVE A MINIMUM DEPTH OF 1.5 INCHES, SHALL NOT BE LESS THAN 3 INCHES LARGER THAN THE UNIT OR THE COIL DIMENSIONS IN WIDTH AND LENGTH AND SHALL BE CONSTRUCTED OF CORROSION-RESISTANT MATERIAL. METALLIC PANS SHALL HAVE A MINIMUM THICKNESS OF NOT LESS THAN 0.0276 INCH GALVANIZED SHEET METAL. NON-METALLIC PANS SHALL HAVE A MINIMUM THICKNESS OF NOT LESS THAN 0.0625 INCH.
    c. A SEPARATE OVERFLOW DRAIN LINE SHALL BE CONNECTED TO THE DRAIN PAN PROVIDED WITH THE EQUIPMENT. SUCH OVERFLOW DRAIN SHALL DISCHARGE TO A CONSPICUOUS POINT OF DISPOSAL TO ALERT OCCUPANTS IN THE EVENT OF A STOPPAGE OF THE PRIMARY DRAIN. THE OVERFLOW DRAIN LINE CONNECT TO THE DRAIN PAN AT A HIGHER LEVEL THAN THE PRIMARY DRAIN CONNECTION.
40. CONTRACTOR SHALL VERIFY DUCT PENETRATION THROUGH FIRE RATED WALL WITH ARCHITECTURAL FLOOR PLAN AND INCLUDE IN HIS BID ANY MISSING FIRE DAMPER AND ACCESS PANEL.
41. AIR SHALL BE BALANCED BY A CERTIFIED INDEPENDENT BALANCING CONTRACTOR NOT AFFILIATED WITH TENANT'S MECHANICAL CONTRACTOR. CONTRACTOR SHALL PROVIDE SIX COPIES OF CERTIFIED BALANCING REPORT TO THE OWNER.
42. FRESH AIR INTAKES SHALL NOT BE TAKEN FROM A LOCATION CLOSER THAN 10'-0" FROM ANY SANITARY SEWER VENT OUTLET OR FLUE OR ANY EXHAUST AIR OUTLET, UNLESS SUCH OUTLET IS NOT LESS THAN 24 INCH ABOVE THE FRESH AIR INLET AND SHALL COMPLY LOCAL AND STANDARD MECHANICAL CODE.
43. CONTRACTOR SHALL EXTEND THE CONDENSATE DRAIN FROM THE UNIT TO THE NEAREST DRAIN.
44. DRAWINGS INDICATE LOCATIONS OF FIXTURES, APPARATUS, DUCTWORK AND PIPING; AND WHILE THESE ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE, IF IT IS NECESSARY TO CHANGE THE LOCATION OF SAME TO ACCOMMODATE BUILDING CONDITIONS, MAKE CHANGES WITHOUT ADDITIONAL COST TO THE OWNER AND AS APPROVED BY THE ARCHITECT.
45. PROVIDE ACCESS TO EQUIPMENT AND APPARATUS REQUIRING OPERATION SERVICE OR MAINTENANCE WITHIN THE LIFE OF THE SYSTEM.
46. DO NOT RUN PIPING OR DUCTWORK OR LOCATE EQUIPMENT (WITH RESPECT TO SWITCHBOARDS, PANEL BOARDS, POWER PANELS, MOTOR CONTROL CENTERS OR DRY TYPE TRANSFORMERS WITHIN 42" IN FRONT OF EQUIPMENT, OVER EQUIPMENT, OR WITHIN 36" HORIZONTALLY OF SAME SPACE.
47. ALL MATERIALS AND EQUIPMENT SHALL FIT THE SPACE AVAILABLE, WITH MANUFACTURER'S RECOMMENDED CLEARANCE FOR ACCESS.
48. SCHEDULED FAN STATIC PRESSURES ARE ESTIMATED. PROVIDE AND ADJUST DRIVES TO DELIVER SCHEDULED AIR QUANTITIES AGAINST ACTUAL SYSTEM RESISTANCE. CONTRACTOR SHALL MAKE CHANGES TO SHEAVES, BELTS, VALVES, AND DAMPERS OR PROVIDE ADDITIONAL DAMPERS REQUIRED TO PROVIDE AIR QUANTITIES SHOWN ON THE DRAWINGS.
49. PROVIDE LABELS FOR EACH EQUIPMENT. LABELS TO BE ENGRAVED LAMINATED BAKELITE NAMEPLATES WITH 1/4" HIGH WHITE CUT LETTERS; SECURE TO EQUIPMENT.
50. DIMENSIONS, CONNECTIONS, AND INSTALLATION DETAILS OF EQUIPMENT SUPPLIED BY SEVERAL ACCEPTABLE MANUFACTURERS MAY VARY. CONTRACTOR SHALL BE FULLY RESPONSIBLE OF COMPLIANCE WITH REQUIREMENTS OF PLANS AND SPECIFICATION FOR ANY SUBSTITUTE EQUIPMENT.
51. BLADES OF FIRE DAMPERS SHALL BE OUT OF AIR STREAM.
52. CONTRACTOR SHALL NOT FABRICATE ANY DUCT WORK WITHOUT COORDINATING WITH OTHER DISCIPLINE AND VERIFYING THE CLEARANCE ABOVE THE CEILING.
53. DUCT OR PIPE PENETRATING A FIRE RATED WALL OR FLOOR SHALL BE SEALED WITH THE FIRESTOP SEALANT.
54. ACCEPTABLE MANUFACTURERS: SAMSUNG, PANASONIC, LG, HITACHI, CARRIER, MITSUBISHI, AAON, TRANE, LENNOX, YORK, TITUS, KRUEGER, PENN, ACME, COOK.
55. CONTRACTOR SHALL SUBMIT EQUIPMENT DATA FOR APPROVAL.
56. START-UP OF MECHANICAL SYSTEMS SHOULD INCLUDE TEMPORARY FILTERS TO ELIMINATE CONSTRUCTION DUST AND DEBRIS, AND A SYSTEM FLUSHING WITH MAXIMUM OUTSIDE AIR INTAKE FOR AN EXTENDED PERIOD TO DISSIPATE CHEMICALS DISCHARGED FROM BUILDING MATERIALS AND PRODUCTS. INSTALL PERMANENT FILTERS PRIOR TO BUILDING OCCUPANCY BY OWNER. PROVIDE INSTALLATION AND START-UP CERTIFICATION FROM MAJOR EQUIPMENT MANUFACTURERS.
57. BACK SIDE OF (NON-AIR-CONDITIONING SIDE) SUPPLY DIFFUSER INCLUDING FLANGE SITTING ON METAL CEILING GRID SHALL BE INSULATED TO PREVENT CONDENSATION. INSULATION SHALL BE ADHERE TO DIFFUSER TO PREVENT ANY AIR MOVEMENT BETWEEN DIFFUSER AND INSULATION. INSULATION IS NOT REQUIRED IF CEILING IS USED AS A RETURN AIR PLENUM.
58. THIS CONTRACTOR SHALL GIVE ALL ELECTRICAL INFORMATION (INCLUDING VOLTAGES, AMPS, PHASE) PERTAINING TO MECHANICAL EQUIPMENT TO ELECTRICAL CONTRACTOR BEFORE FINAL CONTRACT SO THAT ELECTRICAL CONTRACTOR INCLUDES IN HIS CONTRACT. CONTRACTOR SHALL GET APPROVAL FROM ELECTRICAL CONTRACTOR BEFORE ORDERING EQUIPMENT.
59. BRANCH ROUND DUCTWORK TAPS LOCATED ABOVE THE ACCESSIBLE CEILING AND SERVING ONLY ONE DIFFUSER SHALL HAVE SPIN-IN DAMPER AND SCOOP WHETHER IT IS SHOWN ON DRAWINGS OR NOT..
60. MANUAL VOLUME DAMPER AT THE SPIN-IN FITTING OF BRANCH ROUND DUCT LOCATED ABOVE THE INACCESSIBLE CEILING SHALL BE OMITTED. PROVIDE MEANS OF AIR BALANCE.
61. MOUNTING FRAME OF CEILING MOUNTED AIR DISTRIBUTION DEVICES SHALL BE COMPATIBLE WITH CEILING TYPE.
62. FLEXIBLE DUCT RUN-OUTS TO DIFFUSERS SHALL BE INSTALLED FREE OF KINKS AND SAGS.
63. PORTION OF DUCTWORK OR PIPING VISIBLE THROUGH GRILLES AND REGISTERS IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.
64. PROVIDE MANUAL VOLUME DAMPER IN OUTSIDE AIR INTAKE DUCT AT RETURN AIR DUCT CONNECTION AND IN RETURN AIR DUCT TO BALANCE OUTSIDE AIR AND RETURN AIR REGARDLESS WHETHER IT IS SHOWN ON PLANS OR NOT.
65. CONTRACTOR SHALL NOT PURCHASE ANY EQUIPMENT WITHOUT WRITTEN APPROVAL OF MECHANICAL, ELECTRICAL, AND STRUCTURAL ENGINEER. ARCHITECT AND ENGINEER MAY NOT HAVE CO-ORDINATED FINAL EQUIPMENT DATA.
66. AIR SHALL NOT BE EXHAUSTED INTO AN ATTIC AS PER INTERNATIONAL MECHANICAL CODE SECTION 501.2.
67. ALL VRF SYSTEM SHALL COMPLY WITH ASHRAE STANDARD 15 SAFETY STANDARD FOR REFRIGERATION SYSTEMS, REQUIREMENTS FOR VRF SYSTEM.RCL VALUE-26# OF REFRIGERANT PER 1000 CU. FT.)

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ATLANTA MANAGEMENT AND ENGINEERING CONSULTANTS, INC.
2081 LULLWATER PLACE, LAWRENCEVILLE, GA. 30043

CARTER WATKINS ASSOCIATES ARCHITECTS, INC.
POST OFFICE BOX 1004
137 EAST WASHINGTON STREET
MONROE, GEORGIA 30655
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email@carterwatkins.com www.carterwatkins.com

SEAL

GEORGIA REGISTERED No. 015330 PROFESSIONAL ENGINEER ... T. PARIKH

WHITFIELD COUNTY RIVERBEND PARK CONCESSION STAND
DALTON, GA

SHEET TITLE: HVAC GENERAL NOTES

PRINTED: 09/28/20

NUMBER: M-5

LEGEND

ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT
MOUNTING HEIGHT FROM THE CENTER OF ITEM

FIRE ALARM SYSTEM

F	MANUAL PULL STATION, 4'-0" AFF
F	COMBINATION ALARM HORN/STROBE, 6'-8" AFF
S	CEILING MOUNTED SYSTEM SMOKE DETECTOR
F	STROBE ALARM, 6'-8" AFF
FACP	FIRE ALARM CONTROL PANEL, TOP AT 6'-6" AFF
ANN	FIRE ALARM ANNUNCIATOR, FLUSH, 5'-0" AFF

POWER/MOTORS

	MOTOR
30/3/20	DISCONNECT SWITCH, AMPS/POLES/FUSE
	PANELBOARD

SIGNAL COMMUNICATIONS

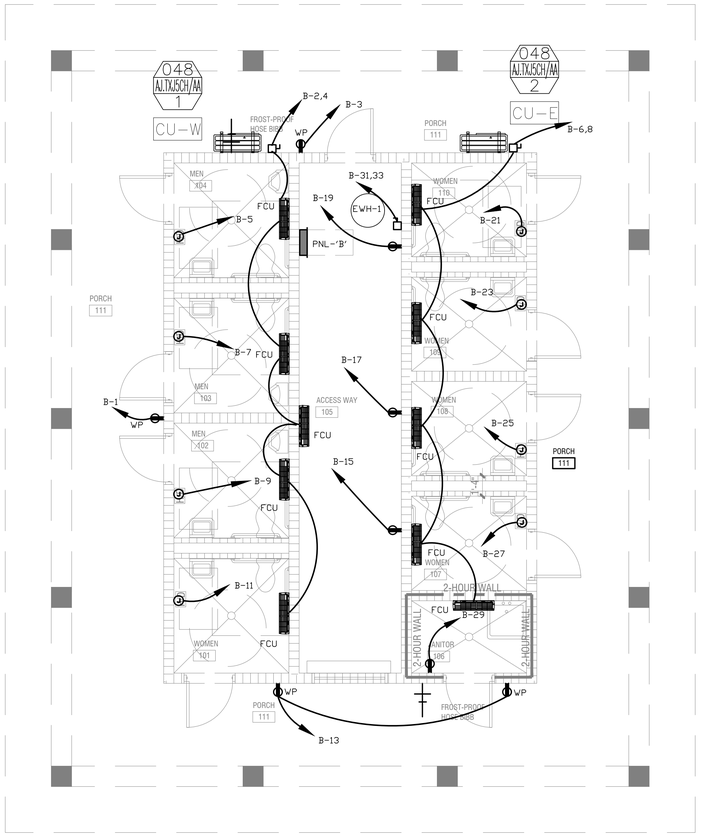
	TELEPHONE/DATA OUTLET 18" AFF, RUN 3/4" CONDUIT WITH PULL STRING 0'-6" ABOVE CEILING AND/OR INSULATION.
TV	TELEVISION OUTLET, STUB 1"CONDUIT, WITH PULL STRING FROM RECESSED JUNCTION BOX 0-6' ABOVE CEILING AND/OR INSULATION

WIRING

$	SINGLE POLE SWITCH, 3'6" AFF
$3	SUBSCRIPT INDICATES NUMBER OF POLES FOR SWITCH 3 FOR 3 WAY, 4 FOR 4 WAY, M FOR MOTOR CONTROLLER
$m	LEVINTON OCCUPANCY SENSOR SWITCH-OSMTT
M	LEVINTON OCCUPANCY SENSOR OSC05/10/20-MWW
M1	LEVINTON OCCUPANCY SENSOR OSW12-MDW
	CONDUIT IN WALL OR ABOVE CEILING
	HOME RUN, 2#12 AND 1#12 GROUND COPPER THHN 1/2"C OR AS NOTED.
J H	JUNCTION BOX, CEILING WALL

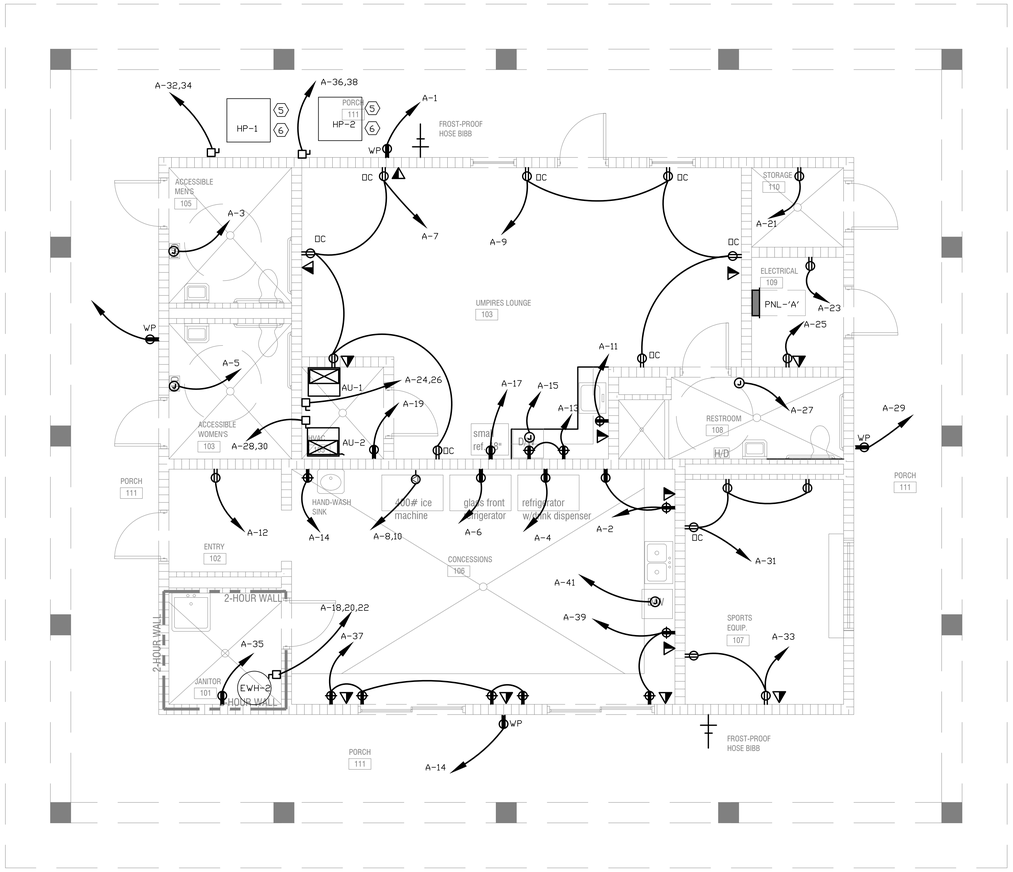
RECEPTACLES/WIRING DEVICES

	DUPLEX OUTLET, 20A, 125V, HUBBELL #CBR20* OR EQUAL (MOUNT 18" A.F.F.)
	DUPLEX OUTLETMOUNTED ABOVE COUNTER (COORDINATE W/CABINET WORK)
	DUPLEX OUTLET W/G.F.I., HUBBELL #GF5352*A OR EQUAL (MOUNT 18" AFF)
	DUPLEX OUTLET W/G.F.I. MOUNTED ABOVE COUNTER
DC	DUPLEX OUTLET, 20A, 125V, HUBBELL #BR20C1WHI* OR EQUAL (MOUNT 18" A.F.F.)-HALF CONTROL



FLOOR PLAN-POWER

1/4"=1'-0"



FLOOR PLAN-POWER

1/4"=1'-0"

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2081 LULLWATER PLACE, LAWRENCEVILLE, GA. 30043

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SEAL

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 015330 MICHAEL T. PARK

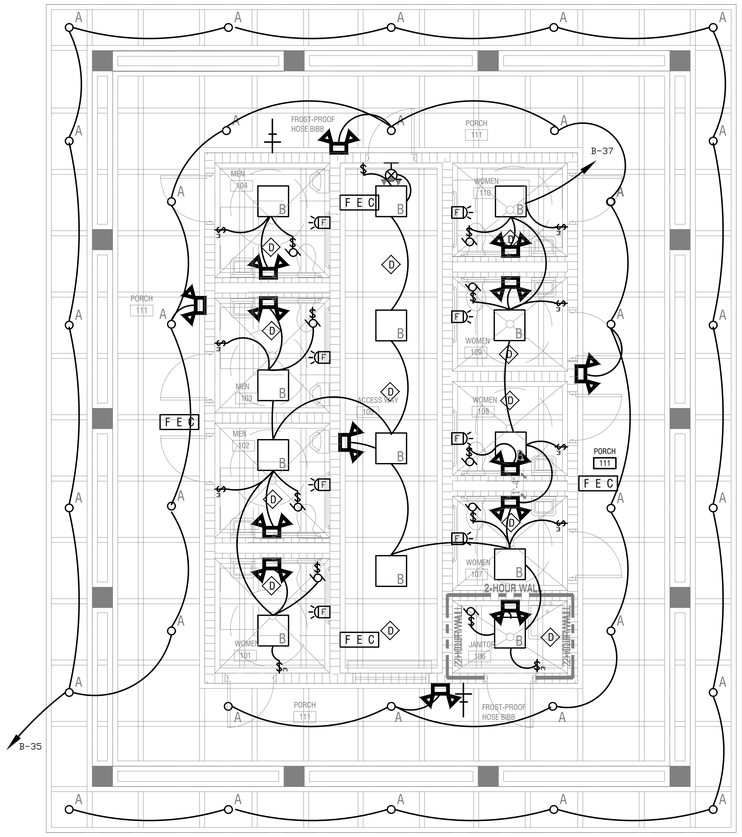
WHITFIELD COUNTY RIVERBEND PARK CONCESSION STAND

DALTON, GA

SHEET TITLE:
FLOOR PLANS-POWER
LEGEND

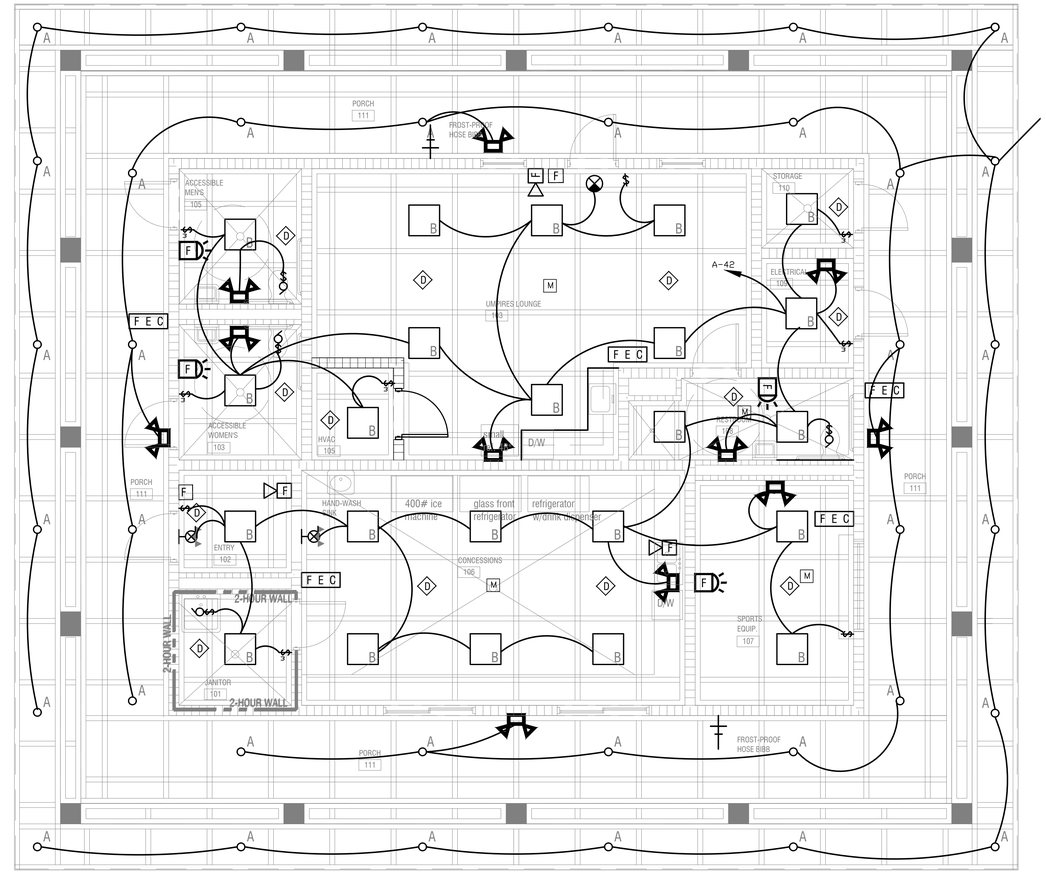
PRINTED: 09/28/20

NUMBER:
E-1



FLOOR PLAN-LIGHTS

1/4"=1'-0"



FLOOR PLAN-LIGHTS

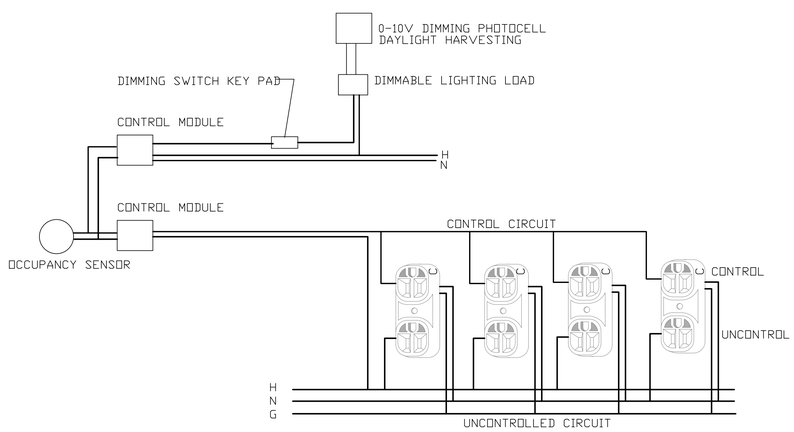
1/4"=1'-0"

EMERGENCY LIGHTS NOTES:

1. THE BRANCH CIRCUIT FEEDING THE EMERGENCY LIGHT AND EXIT LIGHT SHALL BE THE SAME BRANCH CIRCUIT AS THAT SERVING THE NORMAL LIGHTING IN THE AREA AND CONNECTED AHEAD OF ANY LOCAL SWITCHES AS PER NEC CODE 700-12(E).

   a. EMERGENCY AND EXIT LIGHTS CONNECTED TO CIRCUITS CONTROLLED BY TIME CLOCK, OR PHOTOCELL SHALL HAVE BYPASS MEANS TO BE CONTINUOUSLY ENERGIZED WHEN CIRCUIT IS ACTIVE.

   b. CIRCUIT WITH EMERGENCY AND EXIT LIGHTS WITH NO SWITCH, TIME CLOCK OR PHOTOCELL SHALL BE PROGRAMMED TO OPERATE CONTINUOUSLY.



LIGHTING AND RECEPTACLES CONTROL

NO SCALE

Schedule

Symbol	Label	Manufacturer	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage
A	A	GREEN CREATIVE LTD	24.5NCDL-R8DIM/935/277V/EXT	1	2218.4	0.9	23.74
B	B	ILP	PAN22-30WLED-U-40/SM	1	3969	0.9	29.6153
		EXITRONIX	LED-90-G2-WPV-2	2		0.9	2.2
		EXITRONIX	VLED-EL90-G2	2		0.9	2.2
		EXITRONIX	ILX-R-EM	2		0.9	2.2

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PRINTED DATE: 09/28/20

WHITFIELD REIVERBEND PARK

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SEAL

GEORGIA REGISTERED ARCHITECT No. 015330 PROFESSIONAL

WHITFIELD COUNTY RIVERBEND PARK CONCESSION STAND

DALTON, GA

SHEET TITLE:
FLOOR PLANS-LIGHTS
LEGEND

PRINTED: 09/28/20

NUMBER:
E-2

PANEL "A" SCHEDULE

MAIN: 200 M.L.O. | VOLTAGE 208 | 3Ø | WIRES: 4 | MOUNTING: ? | AIC: 10,000

CKT#	BRKR	DESCRIPTION	LTG	REC	MTR	A/C	HTG	KIT	MISC	A	B	C	LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	BRKR	CKT#
1	20/1	RECP-OUTSIDE	0.0	0.4	0.0	0.0	0.0	0.0	0.0	1.2			0.0	0.8	0.0	0.0	0.0	0.0	0.0	RECP-CONCESSIONS	20/1	2
3	20/1	RECP-MEN-DRYER	0.0	1.6	0.0	0.0	0.0	0.0	0.0		2.1		0.0	0.0	0.0	0.0	0.0	0.0	0.5	RECP-REFRIGER	20/1	4
5	20/1	RECP-W'MEN-DRYER	0.0	1.6	0.0	0.0	0.0	0.0	0.0			2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	RECP-REFRIGER	20/1	6
7	20/1	RECP-UMPIIRE	0.0	1.6	0.0	0.0	0.0	0.0	0.0	3.2			0.0	0.0	0.0	0.0	0.0	0.0	1.6	ICE MACHINE	20/2	8
9	20/1	RECP-UMPIRE	0.0	1.6	0.0	0.0	0.0	0.0	0.0		3.2		0.0	0.0	0.0	0.0	0.0	0.0	1.6			10
11	20/1	RECP-KITCHEN	0.0	1.6	0.0	0.0	0.0	0.0	0.0			2.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	RECP-ENTRY-102	20/1	12
13	20/1	RECP-KITCHEN	0.0	1.6	0.0	0.0	0.0	0.0	0.0	2.0			0.0	0.4	0.0	0.0	0.0	0.0	0.0	RECP-OUTSIDE	20/1	14
15	20/1	DISHWASHER	0.0	0.0	0.5	0.0	0.0	0.0	0.0		0.9		0.0	0.4	0.0	0.0	0.0	0.0	0.0	RECP-CONCESSION	20/1	16
17	20/1	REFRIGERATOR	0.0	0.0	0.0	0.0	0.0	0.0	0.5			4.7	0.0	0.0	0.0	0.0	0.0	0.0	4.2	WATER HEATER	50/3	18
19	20/1	RECP-HVAC	0.0	0.4	0.0	0.0	0.0	0.0	0.0	4.6			0.0	0.0	0.0	0.0	0.0	0.0	4.2			20
21	20/1	RECP-STORAGE	0.0	0.4	0.0	0.0	0.0	0.0	0.0		4.6		0.0	0.0	0.0	0.0	0.0	0.0	4.2			22
23	20/1	RECP-ELEC	0.0	0.4	0.0	0.0	0.0	0.0	0.0			5.8	0.0	0.0	0.0	0.0	5.4	0.0	0.0	AU-1	60/2	24
25	20/1	RECP-ELEC	0.0	0.4	0.0	0.0	0.0	0.0	0.0	5.8			0.0	0.0	0.0	0.0	5.4	0.0	0.0			26
27	20/1	HAND DRYER	0.0	1.6	0.0	0.0	0.0	0.0	0.0		7.0		0.0	0.0	0.0	0.0	5.4	0.0	0.0	AU-2	60/2	28
29	20/1	RECP-OUTSIDE	0.0	0.4	0.0	0.0	0.0	0.0	0.0			5.8	0.0	0.0	0.0	0.0	5.4	0.0	0.0			30
31	20/1	RECP-SPORTS	0.0	1.2	0.0	0.0	0.0	0.0	0.0	3.4			0.0	0.0	0.0	2.2	0.0	0.0	0.0	HP-1 *	35/2	32
33	20/1	RECP-SPORTS	0.0	0.8	0.0	0.0	0.0	0.0	0.0		3.0		0.0	0.0	0.0	2.2	0.0	0.0	0.0			34
35	20/1	RECP-JANITROL	0.0	0.4	0.0	0.0	0.0	0.0	0.0			3.6	0.0	0.0	0.0	3.2	0.0	0.0	0.0	HP-2*	45/2	36
37	20/1	RECP-COUNTER	0.0	1.6	0.0	0.0	0.0	0.0	0.0	4.8			0.0	0.0	0.0	3.2	0.0	0.0	0.0			38
39	20/1	RECP-COUNTER	0.0	0.8	0.0	0.0	0.0	0.0	0.0		1.7		0.9	0.0	0.0	0.0	0.0	0.0	0.0	LIGHTS-COVER	20/1	40
41	20/1	DISHWASHER	0.0	0.0	0.5	0.0	0.0	0.0	0.0			1.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	LIGHTS	20/1	42
			0.0	18.4	1.0	0.0	0.0	0.0	0.5				2.1	2.0	0.0	10.8	21.6	0.0	16.8			
RECEPTACLES		20.4																		CONNECTED LOAD		73.2
MOTORS		1.0						KVA		25.0	22.5	25.7								DEMAND LOAD		70.4
A/C		10.8						AMPS		208.3	187.5	214.0										
HEATING		21.6																		CONNECTED AMPS		203.4
KITCHEN		0.0																		DEMAND AMPS		195.5
MISC.		17.3																				
LIGHTING		2.1																				

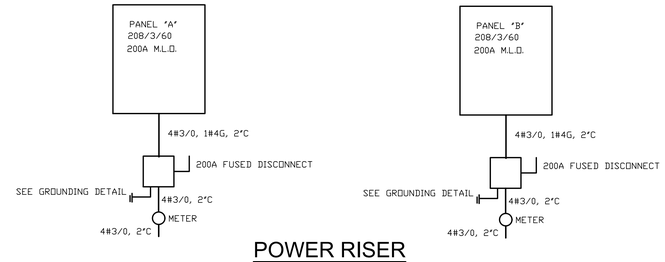
NOTES: * HACR BREAKER **ARC FAULT BREAKER *** SHUNT BREAKER **** TIMER ***** GFI BREAKER

PANEL "B" SCHEDULE

MAIN: 200 M.L.O. | VOLTAGE 208 | 3Ø | WIRES: 4 | MOUNTING: ? | AIC: 10,000

CKT#	BRKR	DESCRIPTION	LTG	REC	MTR	A/C	HTG	KIT	MISC	A	B	C	LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	BRKR	CKT#
1	20/1	RECP-OUTSIDE	0.0	0.4	0.0	0.0	0.0	0.0	0.0	5.6			0.0	0.0	0.0	5.2	0.0	0.0	0.0	CU-W & FCU *	55/2	2
3	20/1	RECP-OUTSIDE	0.0	0.4	0.0	0.0	0.0	0.0	0.0		5.6		0.0	0.0	0.0	5.2	0.0	0.0	0.0			4
5	20/1	HAND DRYER-104	0.0	1.6	0.0	0.0	0.0	0.0	0.0			6.8	0.0	0.0	0.0	5.2	0.0	0.0	0.0	CU-E & FCU *	55/2	6
7	20/1	HAND DRYER-103	0.0	1.6	0.0	0.0	0.0	0.0	0.0	6.8			0.0	0.0	0.0	5.2	0.0	0.0	0.0			8
9	20/1	HAND DRYER-102	0.0	1.6	0.0	0.0	0.0	0.0	0.0		1.6		0.0	0.0	0.0	0.0	0.0	0.0	0.0		20/1	10
11	20/1	HAND DRYER-101	0.0	1.6	0.0	0.0	0.0	0.0	0.0			1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0		20/1	12
13	20/1	RECP-OUTSIDE	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.4			0.0	0.0	0.0	0.0	0.0	0.0	0.0		20/1	14
15	20/1	RECP-105	0.0	0.4	0.0	0.0	0.0	0.0	0.0		0.4		0.0	0.0	0.0	0.0	0.0	0.0	0.0		20/1	16
17	20/1	RECP-105	0.0	0.4	0.0	0.0	0.0	0.0	0.0			0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0		20/1	18
19	20/1	RECP-105	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.4			0.0	0.0	0.0	0.0	0.0	0.0	0.0		20/1	20
21	20/1	HAND DRYER-110	0.0	1.6	0.0	0.0	0.0	0.0	0.0		1.6		0.0	0.0	0.0	0.0	0.0	0.0	0.0		20/1	22
23	20/1	HAND DRYER-109	0.0	1.6	0.0	0.0	0.0	0.0	0.0			1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0		20/1	24
25	20/1	HAND DRYER-108	0.0	1.6	0.0	0.0	0.0	0.0	0.0	1.6			0.0	0.0	0.0	0.0	0.0	0.0	0.0		20/1	26
27	20/1	HAND DRYER-107	0.0	1.6	0.0	0.0	0.0	0.0	0.0		1.6		0.0	0.0	0.0	0.0	0.0	0.0	0.0		20/1	28
29	20/1	RECP-JAN-106	0.0	1.6	0.0	0.0	0.0	0.0	0.0			1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0		20/1	30
31	40/2	WATER HEATER	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9			0.0	0.0	0.0	0.0	0.0	0.0	0.0		20/1	32
33			0.0	0.0	0.0	0.0	0.0	0.0	2.9		2.9		0.0	0.0	0.0	0.0	0.0	0.0	0.0		20/1	34
35	20/1	LIGHTS-COVERED	0.8	0.0	0.0	0.0	0.0	0.0	0.0			0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0		20/1	36
37	20/1	LIGHTS-RR RMS	1.6	0.0	0.0	0.0	0.0	0.0	0.0	1.6			0.0	0.0	0.0	0.0	0.0	0.0	0.0		20/1	38
39	20/1		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		20/1	40
41	20/1		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		20/1	42
			2.4	16.8	0.0	0.0	0.0	0.0	5.8				0.0	0.0	0.0	20.8	0.0	0.0	0.0			
RECEPTACLES		16.8																		CONNECTED LOAD		45.8
MOTORS		0.0						KVA		19.3	13.7	12.8								DEMAND LOAD		48.2
A/C		20.8						AMPS		160.8	114.2	106.7										
HEATING		0.0																		CONNECTED AMPS		127.3
KITCHEN		0.0																		DEMAND AMPS		133.9
MISC.		5.8																				
LIGHTING		2.4																				

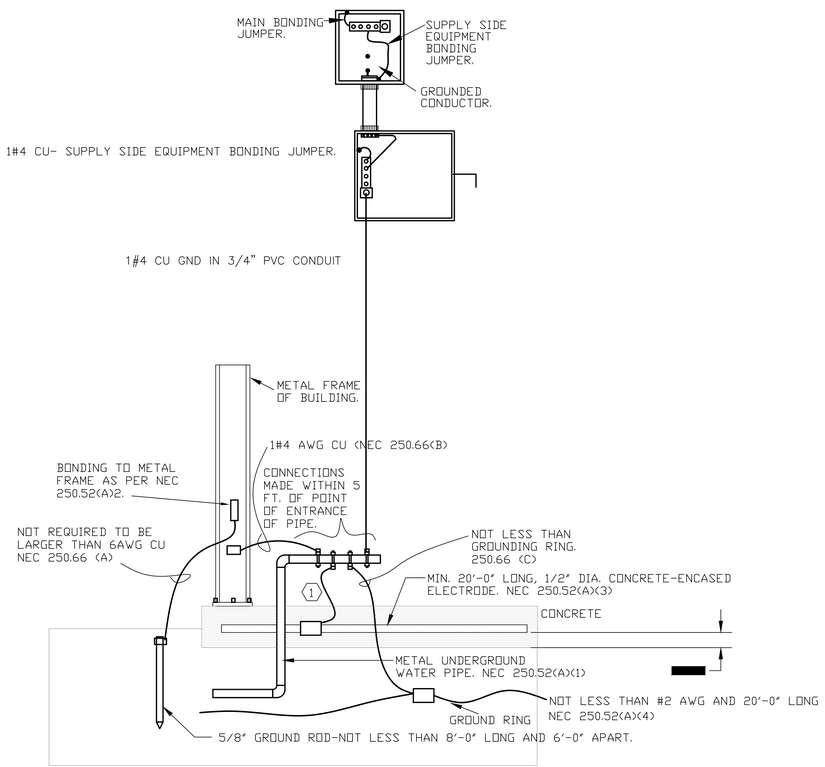
NOTES: * HACR BREAKER **ARC FAULT BREAKER *** SHUNT BREAKER **** TIMER ***** GFI BREAKER



POWER RISER

NO SCALE

ALL WIRES SHALL BE COPPER



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CONSULTANTS

Date Plotted : Sep 28, 2020 - 11:46am
file: 2020-021E2.DWG

ATLANTA MANAGEMENT AND ENGINEERING CONSULTANTS, INC.
2081 LULLWATER PLACE, LAWRENCEVILLE, GA. 30043

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SEAL

GEORGIA REGISTERED No. 01533 PROFESSIONAL ENGINEER

WHITFIELD COUNTY RIVERBEND PARK CONCESSION STAND
DALTON, GA

SHEET TITLE:
PANELS SCHEDULE
POWER RISER

PRINTED: 09/28/20

NUMBER: E-3

ELECTRICAL NOTES

1. CONTRACTOR SHALL NOT RUN ANY WIRES WITHOUT VERIFYING WITH ELECTRICAL CHARACTERISTICS OF EQUIPMENT. DESIGN DOCUMENTS MAY DIFFER FROM ACTUAL ELECTRICAL CHARACTERISTICS OF EQUIPMENT. ENGINEER DOES NOT HAVE ACTUAL EQUIPMENT DATA DURING DESIGN PROCESS. CONTRACTOR SHALL BRING TO ATTENTION OF ENGINEER FOR ANY DISCREPANCIES. CONTRACTOR MUST SUBMIT EQUIPMENT DATA WHICH REQUIRED ELECTRICAL POWER TO ENGINEER. APPROVED EQUIPMENT BY ENGINEER OR ARCHITECT DOES NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY OF VERIFICATION OF ELECTRICAL CHARACTERISTICS OF EQUIPMENT AND MODIFY CIRCUITS AS NECESSARY.

2. CONTRACTOR SHALL VERIFY UTILITY COMPANY?S POWER SUPPLY (VOLTAGES AND PHASE) BEFORE PURCHASING ANY EQUIPMENT, LIGHT FIXTURES AND NOTIFY ENGINEER FOR ANY DISCREPANCIES. CONTRACTOR SHALL SUBMIT ALL EQUIPMENT DATA AND LIGHT FIXTURES FOR APPROVAL.

3. ANY EQUIPMENT REQUIRES DUAL VOLTAGES (e.g. 240/120V FOR OVEN AND DRYER OR 277/120 VOLTS WITH CONTROL WIRES), CONTRACTOR SHALL RUN NEUTRAL WIRE

4. PROVIDE GROUND FAULT OUTLET WITHIN 25 FEET OF ALL AIR CONDITIONING EQUIPMENT ON OUTSIDE ON GROUND, ROOF AND IN THE ATTIC (REGULAR) AS PER NEC CODE 210-8(B) & 210-63. CONNECT TO NEAREST RECEPTACLE CIRCUIT UNLESS OTHERWISE INDICATED.

5. PROVIDE ELECTRICAL CONNECTIONS TO ALL ITEMS SHOWN AS PART OF THE GENERAL CONTRACT WHICH REQUIRES ELECTRICITY.

6. COORDINATE ALL CONNECTIONS WITH EQUIPMENT SUPPLIER FOR EXACT LOCATION AND REQUIREMENTS.

7. PROVIDE CONNECTION TO ALL APPLIANCES, MECHANICAL AND PLUMBING EQUIPMENT INCLUDING TOILET EXHAUST FANS AND UNDER CABINET LIGHTS, SIGNS, ETC.,. CONTRACTOR MUST VERIFY WITH ARCHITECTURAL, INTERIOR, CIVIL, MECHANICAL, AND PLUMBING CONTRACTORS THE QUANTITY OF EQUIPMENT CONNECTIONS BEFORE BIDDING AND FINAL CONTRACT. NEGLIGENCE OF VERIFYING QUANTITY WILL NOT BE COMPENSATED.

8. PROVIDE MINIMUM OF 1/0 COPPER GROUND CONDUCTOR FROM TELEPHONE BACKBOARD TO BUILDING GROUNDING SYSTEM. CONTRACTOR SHALL PROVIDE 8'-0" X 4'-0" X 3/4" THICK FIRE RETARDANT PLYWOOD TELEPHONE BACKBOARD AND 120 VOLT CONVENIENCE DUPLEX OUTLET NEXT TO TELEPHONE BACKBOARD. CONTRACTOR SHALL RUN TWO 4" PVC CONDUIT FROM TELEPHONE BOARD TO THE PUBLIC RIGHT OF WAY OR A POLE. CONTRACTOR SHALL COORDINATE WITH TELEPHONE COMPANY FOR THE THEIR REQUIREMENTS BEFORE FINAL CONTRACT. CONTRACTOR SHALL INFORM ARCHITECT FOR ANY DISCREPANCIES.

9. EXPOSED WIRING SHALL BE IN EMT OR RIGID CONDUIT.

10. SEE MECHANICAL DRAWINGS FOR LOCATION OF HEATING AND A/C EQUIPMENT.

11. ALL RECEPTACLES AT VANITY, BATH, KITCHEN COUNTER AREAS, AND WET LOCATION SHALL BE GROUND FAULT INTERRUPTER TYPE.

12. VERIFY EXACT LOCATIONS AND LOADS OF SERVICES TO EQUIPMENT TO BE SUPPLIED BY OTHERS, SUCH AS BUILDING SIGNAGE, VENDING MACHINES, ETC., AS WELL AS ALL MECHANICAL EQUIPMENT.

13. RECESSED LIGHT FIXTURES IN RATED CEILINGS MUST BE PROTECTED OR LISTED FOR USE IN THE RATED ASSEMBLY.

14. ELECTRICAL OUTLETS BOXES ON OPPOSITE SIDES OF RATED WALLS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 24" MINIMUM.

15. MAINTAIN CLEARANCES IN FRONT OF ELECTRICAL EQUIPMENT (TRANSFORMER, PANELS, ETC.) AS REQUIRED BY MANUFACTURER AND NEC CODE 110-26(A). SEE TABLE.26(A)(1). (3'-0" TO 4'-0"). MINIMUM WIDTH 30" OR SIZE OF EQUIPMENT.

16. CONTRACTOR SHALL VERIFY ELECTRICAL CHARACTERISTICS BEFORE RUNNING CONDUIT AND WIRES.

17. SEE ARCHITECTURAL DRAWINGS FOR UNDER CABINET LIGHTING AND PROVIDE NECESSARY CIRCUITS.

18. CONTRACTOR SHALL VERIFY WITH UTILITY COMPANY VOLTAGES AND UTILITY COMPANY?S SCOPE OR WORK.

19. FIRE ALARM CONTRACTOR SHALL PROVIDE, INSTALL, AND WIRE DUCT SMOKE DETECTORS. COORDINATE WITH MECHANICAL CONTRACTOR FOR LOCATION. SEE MECHANICAL DRAWINGS AND NOTES.

20. CONTRACTOR SHALL PROVIDE WIRES AND CONDUIT FROM TRANSFORMER TO ELECTRICAL ROOM. SEE SITE PLAN FOR EXACT LOCATION OF TRANSFORMER AND ELECTRICAL POWER RISER FOR WIRES AND CONDUITS SIZES.

21. CONTRACTOR SHALL PAY APPLICATION, COORDINATION, AND FEES FOR ELECTRICAL TRANSFORMER.

22. COORDINATE WITH THE ELECTRICAL UTILITY AND VERIFY LOCATION AND ORIENTATION OF SERVICE EQUIPMENT AND ASSOCIATED METERING EQUIPMENT.

23. PROVIDE AND INSTALL ALL MATERIALS DESIGNATED BY THE ELECTRICAL UTILITY TO BE FURNISHED BY "CUSTOMER". THIS MAY INCLUDE BUT NOT LIMITED TO, COMPRESSION LUGS FOR TRANSFORMER SECONDARY CONNECTION, CONCRETE PAD FOR SERRIA TRANSFORMER, GROUNDING MATERIAL, METER BASE AND EMPTY CONDUITS FOR PRIMARY LINES.

24. CONTRACTOR SHALL PROVIDE COMPLETE TELEPHONE WIRING FROM TELEPHONE OUTLETS TO TELEPHONE COMPANY?S MAIN TELEPHONE WIRES. CONTRACTOR SHALL COORDINATE THE SCOPE OF WORK WITH TELEPHONE COMPANY FOR COMPLETE OPERATION OF TELEPHONE SYSTEM.

25. THE BRANCH CIRCUIT FEEDING THE EMERGENCY LIGHT AND EXIT LIGHT (UNIT EQUIPMENT) SHALL BE THE SAME BRANCH CIRCUIT AS THAT SERVING THE NORMAL LIGHTING IN THE AREA AND CONNECTED AHEAD OF ANY LOCAL SWITCHES AS PER NEC CODE 700-12(F).

   a. EMERGENCY AND EXIT LIGHTS CONNECTED TO CIRCUITS CONTROLLED BY TIME CLOCK, OR PHOTOCELL SHALL HAVE BYPASS MEANS TO BE CONTINUOUSLY ENERGIZED WHEN CIRCUIT IS ACTIVE.

   b. CIRCUIT WITH EMERGENCY AND EXIT LIGHTS WITH NO SWITCH, TIME CLOCK OR PHOTOCELL SHALL BE PROGRAMMED TO OPERATE CONTINUOUSLY.

26. PROVIDE TWO HEAD WALL MOUNTED BATTERY EMERGENCY LIGHT AT EACH INTERMEDIATE LANDING OF STAIRWELL. AS PER NFPA-101-7.9.1.2

    PROVIDE ON EVERY CORRIDOR A TWO HEAD BATTERY EMERGENCY LIGHT WITHIN FIFTEEN FEET OF THE END OF CORRIDOR AND MAXIMUM 28'-0 ON CENTER THROUGH THE CORRIDOR AS PER NFPA 101-7.9.1.2

27. PROVIDE TWO HEAD WALL MOUNTED BATTERY EMERGENCY LIGHT AT EACH EXIT WALKWAYS AS PER NFPA-101-7.9.1.2

28. NO PIPING, DUCT, OR EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE INSTALLED ABOVE THE ELECTRICAL PANEL BOARD, MOTOR CONTROL CENTER, OR SWITCHBOARD.

29. PROTECT PANEL BOARDS, TRANSFORMERS, ETC. AS PER NEC CODE 110-27(B).

30. CONTRACTOR SHALL SUBMIT GROUND FAULT PERFORMANCE TESTS TO BUILDING INSPECTOR AND ENGINEER.

31. PROVIDE APPLICABLE PENETRATION FIRE-STOP SYSTEM AS PER SBC SECTION 705.4.

32. COMBINATION HORN STROBE SHALL BE INSTALLED WITHIN 15'-0" OF THE END OF EACH CORRIDOR AND MAXIMUM OF 50'-0" ON CENTER THROUGHOUT THE CORRIDOR AS PER NATIONAL FIRE ALARM CODE SECTION 6-4.4.2.2. (MIN. 90" ABOVE FINISHED FLOOR AND BELOW THE FINISHED CEILINGS OF NOT LESS THAN 6 INCH.

33. INSTALL MANUAL PULL STATION AT EVERY FIRST FLOOR EXIT AND AT EACH DOOR OF STAIRWAY ON THE FLOORS ABOVE. ADDITIONAL MANUAL PULL STATION SHALL BE PROVIDED SO THAT TRAVEL DISTANCE TO THE NEAREST MANUAL PULL STATION SHALL NOT EXCEED OF 200 FT MEASURED HORIZONTALLY ON THE SAME FLOOR. MOUNTING HEIGHT SHALL BE NOT LESS THAN 42" AND NOT MORE THAN 54" ABOVE FINISHED FLOOR. SEE NATIONAL FIRE ALARM CODE SECTION 5-8.1.2

34. PROVIDE FIRE ALARM STROBE LIGHT IN EVERY PUBLIC REST ROOM AND OTHER GENERAL USAGE AREAS (E.G. CLASSROOMS, MEETING ROOMS), HALLWAYS, LOBBIES, AND ANY OTHER AREAS OF COMMON USE AS PER GA. ACCESSIBILITY CODE SECTION 120-3-20-.39

35. INSTALL SMOKE DETECTORS IN ALL COMMON AREAS SUCH AS LOBBIES, STORAGE ROOMS, EQUIPMENT ROOMS, BASEMENTS, ATTICS, SPACE ABOVE THE CEILINGS, CLOSETS, ELEVATOR SHAFTS, ENCLOSED STAIRWAYS, DUMBWAITER SHAFTS, AND CHUTES, AND OTHER TENANTLESS SPACES. SEE NATIONAL FIRE ALARM CODE SECTION 5-1.4.2

36. CEILING SMOKE DETECTORS SHALL BE INSTALLED IN ALL CORRIDORS. SMOKE DETECTORS SHALL BE INSTALLED WITHIN 15'-0" OF THE END OF EACH CORRIDOR AND MAXIMUM 30'-0" ON CENTER THROUGHOUT THE CORRIDOR.

37. ALL OUTLETS WITHIN SIX FEET OF ANY SINK SHALL BE GROUND FAULT PROTECTION TYPE.

38. PROVIDE POWER TO GARBAGE DISPOSAL AND DISHWASHER. SEE PLUMBING AND ARCHITECTURAL PLANS.

39. DO NOT PROVIDE MORE THAN SIX DISCONNECT SWITCHED AT BUILDING SERVICE ENTRANCE.

40. PROVIDE FIRE SAFE BLANKET WRAP AROUND EACH OUTLET BOX IN FIRE RATED ASSEMBLY TO MAINTAIN ASSEMBLY FIRE RATING.

41. PROVIDE GROUND FAULT PROTECTION TYPE (GFI) RECEPTACLES AT THE FOLLOWING LOCATION:

    a. BATHROOM
    b. KITCHEN COUNTERTOP INCLUDING COMMERCIAL KITCHEN
    c. WITHIN SIX FEET OF ANY SINK
    d. GARAGE (READILY ACCESSIBLE)
    e. OUTSIDE WITH WEATHERPROOF (READILY ACCESSIBLE).
    f. WET LOCATION.
    g. AS PER NEC 210-8.

42. BRANCH CIRCUIT CONDUCTORS:

43. WIRES RUN OVER 100 FEET LONG SHALL BE SIZED NEXT SIZE OF WIRE SCHEDULE.

44. THIS APPLIES TO THE ENTIRE CIRCUIT OR CIRCUITS.

45. DO NOT INSTALL ANY ELECTRICAL EQUIPMENT IN CORROSIVE ENVIRONMENT.

46. FEEDER DISCONNECT RATED 1000 AMPS OR MORE AND INSTALLED SOLIDITY

47. ALL EXTERIOR LIGHT FIXTURES SHALL BE CORROSION RESISTANCE (SPECIAL COATING FOR COAST AREA) AND WET LABEL TYPE.

48. DISCONNECT SWITCH SHALL BE INSTALLED AS PER NEC 404.8(A). ALL SWITCHES AND BREAKERS USED AS SWITCHES SHALL BE LOCATED SO THAT THEY MAY BE OPERATED FROM READILY ACCESSIBLE PLACE. THEY SHALL BE INSTALLED SUCH THAT THE CENTER OF THE GRIP OF THE OPERATING HANDLE OF THE SWITCH OR CIRCUIT BREAKER, WHEN IN THE HIGHEST POSITION, IS NOT MORE THAN 6'-7" ABOVE THE FLOOR OR WORKING PLATFORM.

49. ELECTRIC ROOM SHALL HAVE MINIMUM 30 FC AND EMERGENCY LIGHT SHALL 1 FOOTCANDLE LIGHT LEVEL.

50. GROUND FAULT PROTECTION OF EQUIPMENT IN ACCORDANCE WITH THE PROVISIONS OF 230-95. SEE ARTICLE 215.10

51. GROUNDED WYE ELECTRICAL SYSTEMS OF MORE THAN 150 VOLTS TO GROUND, BUT NOT EXCEEDING 600 VOLTS PHASE TO PHASE, SHALL BE PROVIDED WITH

52. LAY-IN LIGHT FIXTURES SHALL BE SUPPORTED WITH FOUR WIRE HANGERS INDEPENDENT OF THE CEILING GRID SYSTEM AND SECURED TO THE GRID

53. ALL DISCONNECTING SWITCHES SHALL BE IDENTIFIED AS PER NEC CODE SECTION 110.22.

54. TYPE NM, NMC, AND NMS CABLE IS NOT PERMITTED AT EXPOSED IN DROPPED OR SUSPENDED CEILING AS PER NEC ARTICLE 334.12-A-1

55. CONTRACTOR SHALL VERIFY THE TYPE OF THE LIGHT FIXTURES AGAINST THE CEILING BEFORE BIDDING THE PROJECT.

ELECTRICAL SPECIFICATIONS

I. GENERAL

A. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND NECESSARY ITEMS AND OBTAIN AND PAY FOR ALL FEES AND PERMITS REQUIRED TO INSTALL A COMPLETE ELECTRICAL SYSTEM.

B. IT IS THE INTENT OF THESE PLANS TO PROVIDE A COMPLETE ELECTRICAL SYSTEM, REGARDLESS OF WHETHER EACH INDIVIDUAL COMPONENT IS MENTIONED OR NOT.

C. THE WORK SHALL COMPLY WITH THE STANDARDS OF THE FOLLOWING CODES AND ORDINANCES:

   1. NFPA NO. 70, ?NATIONAL ELECTRIC CODE,?LATEST ED.
   2. NECA ?STANDARD OF INSTALLATION?
   3. THE ELECTRICAL UTILITY COMPANY SERVICE STANDARDS
   4. UNDERWRITER?S LABORATORY STANDARDS
   5. OTHER LOCAL CODES, ORDINANCES AND LAWS APPLICABLE TO THE LOCATION OF THIS PROJECT.

D. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH TELEPHONE SYSTEM, CABLE TV, MECHANICAL AND SECURITY SYSTEM INSTALLATIONS.

II. MATERIALS AND WORKMANSHIP:

A. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR TIMELY PLACEMENT OF ALL CONDUITS, OUTLET BOXES, CABINETS, AND OTHER WIRING DEVICES IN FLOORS, WALLS, CEILINGS, ETC. AS THE CONSTRUCTION PROGRESSES.

B. OUTLET BOXES SHALL BE LOCATED AS FOLLOWS:

   1. WALL SWITCHES - 4'-0?ABOVE FINISH FLOOR (CENTER).
   2. CONVENIENCE OUTLETS - 16" A.F.F. (CENTER)
   3. EQUIPMENT OUTLETS AS REQUIRED (VERIFY)

C. WIRING SYSTEM SHALL BE AS FOLLOWS:

   1. RIGID CONDUIT-GALVANIZED STEEL OR RIGID ALUMINUM AS PERMITTED BY N. E. C.

   2. EMT- ELECTRIC METALLIC TUBING CONDUIT MAY BE USED ONLY WHERE IT IS NOT SUBJECT TO MECHANICAL DAMAGE AND WHERE PERMITTED BY THE N. E. C. AND LOCAL CODES.

   3. FLEXIBLE METAL TUBING - TO BE USED AT CONNECTIONS WHERE REQUIRED. CONNECTIONS SHALL BE MADE WITH GROUND. ALL SUCH CONNECTIONS SHALL BE LIQUID TIGHT.

   4. UNDERGROUND CIRCUIT SHALL BE SCHEDULE 40 PVC.

D. CONDUCTORS SHALL BE COPPER, TYPE THWN/THHN.

E. CONVENIENCE RECEPTACLES SHALL BE 15 (20)AMP., 125 VOLT NEMA 5-15(20)R.

F. WALL SWITCHES SHALL BE 20 AMP. 120/277 V. AC, SINGLE POLE OR AS INDICATED ON THE DRAWING.

G. PANELBOARDS SHALL BE BY SQUARE D, SIEMENS, OR GENERAL ELECTRIC.

H. GROUNDING OF ELECTRICAL SYSTEMS SHALL BE IN ACCORDANCE WITH THE NEC AND LOCAL REQUIREMENTS.

I. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ITEMS SHOWN AS PART OF THE GENERAL CONTRACT WHICH REQUIRE ELECTRICITY-INCLUDING ALL SIGNAGE, BUILDING LIGHTING, AND CONTROL WIRING.

J. FUSES SHALL BE DUEL-ELEMENT CURRENT LIMITING FUSES IN ALL DISCONNECT SWITCHES OR OTHER FUSIBLE DEVICES. FURNISH A SPARE FUSE OF EACH TYPE USED ON THE JOB.

K. ELECTRICAL CONTRACTOR SHALL INSTALL AND CONNECT MOTOR STARTERS, RELAYS, SWITCHES, AND RELATED ITEMS WHICH ARE SUPPLIED BY OTHERS.

L. ALL MATERIAL SHALL BE NEW AND U.L APPROVED AND LABELED.

M. ALL ELECTRICAL EQUIPMENT AND SYSTEMS SHALL BE TESTED AND ADJUSTED FOR PROPER OPERATION. COMPLETE WIRING SYSTEM SHALL BE FREE OF SHORT CIRCUITS.

N. CONTRACTOR SHALL MAKE COMPLETE CONNECTIONS TO ALL EQUIPMENT. COORDINATE WITH EQUIPMENT SUPPLIER FOR EXACT LOCATIONS AND REQUIREMENTS.

O. RUN 3/4"C W/PULL WIRE FROM TV, TELEPHONE AND DATA OUTLETS TO COMPUTER ROOM.

P. RUN 2-2"PVC CONDUITS W/PULL WIRE TO PROPERTY LINE FOR TELEPHONE. COORDINATE W/TELEPHONE UTILITY.

Q. RUN 1 ½" PVC PULL WIRE TO PROPERTY LINE FOR TV CABLE. COORDINATE W/CABLE SUPPLIER.

R. CONTRACTOR MUST SUBMIT EQUIPMENT DATA FOR APPROVAL TO ENGINEER.

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DALTON, GA

SHEET TITLE:
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ELECTRICAL SPECIFICATIONS

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