Social Circle Public Works Department
New Fleet Facility

166 North Cherokee Road, Social Circle, Georgia 30025
Project No.: 2512 Date: 3/12/2026

TURNIPSEED ENGINEERS | ATLANTA AUGUSTA ST. SIMONS ISLAND

Millard, Inc.
Architects & Engineers
580 Colonial Park Drive - Roswell, Georgia 30075
Phone: 770.993.2034 www.millardinc.net

2512 - TURNIPSEED- SOCIAL CIRCLE NEW FLEET FACILITY

DRAWING INDEX

PROJECT CONTACTS

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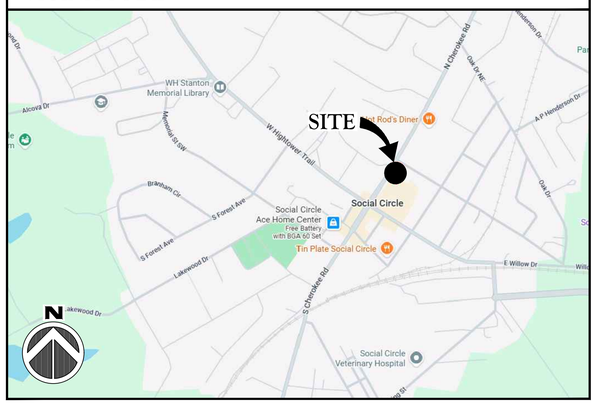
ABBREVIATIONS

ACC.	ACCESSORIES	EA.	EACH	L.	LONG	REQD.	REQUIRED
A.C.I.	AMERICAN CONCRETE INSTITUTE	E.C.U.	EXECUTIVE CONFERENCE UNIT	LEED	LEADERSHIP IN ENERGY & ENVIRONMENTAL DESIGN	R.E.S.	RESILIENT EDGE STRIP
A.C.T.	ACOUSTICAL CEILING TILE	E.D.F.	ELECTRIC DRINKING FOUNTAIN	L.L.V.	LONG LEG VERTICAL	RESIL.	RESILIENT
A.D.A.	AMERICANS WITH DISABILITIES ACT	E.I.F.S.	EXTERIOR INSULATION AND FINISH SYSTEM	LT.WT.	LIGHT WEIGHT	RESIST.	RESISTANT
ADJ.	ADJUSTABLE	ELEC. / ELECT.	ELECTRICAL	LOC.	LOCATION	RM.	ROOM
A.E.D.	AUTOMATED EXTERNAL DEFIBRILLATOR CABINET	EL. / ELEV.	ELEVATION	LUM.	LUMINOUS	R.O.W. / R/W	RIGHT OF WAY
A.F.	AIR FRESHENER	ENG.	ENGINEER / ENGINEERED / ENGINEERING	L.V.T.	LUXURY VINYL TILE	R.T.U.	ROOF TOP UNIT
A.F.F.	ABOVE FINISH FLOOR	EJ. / EXP. JT.	EXPANSION JOINT	MANUF.	MANUFACTURE / MANUFACTURER	SAN.	SANITARY
A.I.S.C.	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	E.J.M.	EXPANSION JOINT MATERIAL	MAX.	MAXIMUM	S.C.	SOLID CORE
ALT.	ALTERNATE	E.P.	ELECTRICAL PANEL	M.B.	MARKER BOARD	S.C.D.	SEAT COVER DISPENSER
ALUM.	ALUMINUM	EQ.	EQUAL	M.B.H.	MOP AND BROOM HOLDER	S.C.R.	SHOWER CURTAIN ROD
&	AND	E.T.R.	EXISTING TO REMAIN	M.D.O.	MEDIUM DENSITY OVERLAY	S. CONC.	SEALED CONCRETE
ANOD.	ANODIZED	E.W.	EACH WAY	MECH.	MECHANICAL	S.C.W.	SOLID CORE WOOD
APPROX.	APPROXIMATE	EXP.	EXPANSION / EXPOSED	MED.	MEDIUM	S.D.	SOAP DISPENSER
ARCH.	ARCHITECT	EXIST.	EXISTING	MET. / MTL.	METAL	SEC.	SECURITY
A.S.T.M.	AMERICAN SOCIETY FOR TESTING MATERIALS	EXR.	EXISTING TO REMAIN	MFR.	MANUFACTURER	S.F.	SQUARE FOOT / FEET
@	AT	EXT.	EXTERIOR	M.H.	MOUNTING HEIGHT	SIM.	SIMILAR
A.T.	ALUMINUM THRESHOLD	F.C.B.	FIBER CEMENT BOARD	M.T.	MARBLE THRESHOLD	S.L.V.	SHORT LEG VERTICAL
B.B.	BULLETIN BOARD	F.C.U.	FAN COIL UNIT	MTL.THD.	METAL THRESHOLD	S.P.	SOLID POLYMER
B.C.S.	BABY CHANGING STATION	F.D.	FLOOR DRAIN	MIN.	MINIMUM	S.P.S.	SOLID POLYMER SURFACING
BD. / BRD.	BOARD	F.D.C.	FIRE DEPARTMENT CONNECTION	M.O.	MASONRY OPENING	SPEC.	SPECIFICATION
BLDG.	BUILDING	F.D.R.	FLOORMOUNTED DATA RACK	M.R.	MOISTURE RESISTANT	S.S. / ST.STL.	STAINLESS STEEL
B.O.	BOTTOM OF	F.E.	FIRE EXTINGUISHER	MRGWB	MOISTURE RESISTANT GYPSUM WALL BOARD	S.T.C.	SOUND TRANSMISSION COEFFICIENT / CLASS
B.O.D.	BASIS OF DESIGN	F.E.B.	FIRE EXTINGUISHER & BRACKET	M.W.	MICROWAVE	STD.	STANDARD
BOL.	BOLLARD	F.E.C.	FIRE EXTINGUISHER & CABINET	N/A	NOT APPLICABLE	STL.	STEEL
BOT.	BOTTOM	F.F.E.	FINISH FLOOR ELEVATION	N.R.	NAPKIN RECEPTACLE	STRUC./ STRUCT.	STRUCTURAL
BR. / BRK.	BRICK	F.F.L.	FINISH FLOOR LEVEL	NAP.	NAPKIN	S.W.	STAINED WOOD
B.R.	BULLET RESISTIVE	FIN.	FINISH	N.F.P.A.	NATIONAL FIRE PROTECTION ASSOCIATION	T.	TALL
B.U.	BUILT-UP	FIN. FLR.	FINISH FLOOR	N.I.C.	NOT IN CONTRACT	T.C.	TRASH CONTAINER
B.U.R.	BUILT-UP ROOF	FIXT.	FIXTURE	# / NO.	NUMBER	TELE.	TELEPHONE
B.W.S.	BOTTLE WATER STATION	F.J.	FLOOR JOINT	NOM.	NOMINAL	TELECOM.	TELECOMMUNICATIONS
CAB.	CABINET	F.M.	FRAMED MIRROR	N.S.F.	NET SQUARE FEET	T&G	TONGUE AND GROOVE
CEN. / CTR.	CENTER	FND.	FOUNDATION	O.A.	OVER-ALL / OUTSIDE AIR	THK.	THICK
CER. / CERM.	CERAMIC	F.R.	FIRE RATED	O.C.	ON CENTER	T.O.	TOP OF
C.G.	CORNER GUARD	F.R.P.	FIBERGLASS REINFORCED PLASTIC	O.D.	OUTSIDE DIAMETER / DIMENSION	T.O.S.	TOP OF STEEL
C.J.	CONTROL JOINT	FT.	FOOT / FEET	OPG. / OPNG.	OPENING	T.P.	TOILET PARTITION
℄	CENTERLINE	FTG .	FOOTING	OPP.	OPPOSITE	T.P.H.	TOILET PAPER HOLDER
CLG.	CEILING	F.V.	FIELD VERIFY	O.F.D.	OVERFLOW DRAIN	TRTD.	TREATED
C.H.	CEILING HEIGHT	GA.	GAUGE	O.F.D.N.	OVERFLOW DRAIN NOZZLE	T.S.	TUBE STEEL
CLR.	CLEAR	GALV.	GALVANZIED	O.F.S.	OVERFLOW SCUPPER	TV	TELEVISION
C.M.U.	CONCRETE MASONRY UNIT	G.B.	GRAB BAR	O.S.H.A.	OCCUPATIONAL SAFETY &HEALTH ADMINISTRATION	TYP.	TYPICAL
C.S.D.	COUNTERMOUNTED SOAP DISPENSER	G.C.	GENERAL CONTRACTOR	P.C.	STAINED POLISHED CONCRETE	U.C.W.R.	UNDER COUNTER WASTE RECEPTACLE
C.O.	CASED OPENING	GRT.	GROUT	P.C.J.	PAVEMENT CONTROL JOINT	U.G.	UNDERGROUND
COL.	COLUMN	G.S.F.	GROSS SQUARE FEET	P.E.J.	PAVEMENT EXPANSION JOINT	U.L.	UNDERWRITER'S LABORATORY
CONC.	CONCRETE	GYP.	GYPSUM	P.E.M.A.	PRE-ENGINEERED METAL BUILDING	U.NO.	UNLESS NOTED OTHERWISE
CONST.	CONSTRUCTION	G.W.B.	GYPSUM WALL BOARD	P.G.	PIPE GUARD	UR.	URINAL
CONT.	CONTINUE / CONTINUOUS	H.	HIGH	P. LAM.	PLASTIC LAMINATE	VAR.	VARIES
COORD.	COORDINATE	H.B.	HOSE BIBB	PLBG.	PLUMBING	V.C.T.	VINYL COMPOSITION TILE
CORR.	CORRIDOR	HC.	HANDICAPPED / HANDICAP ACCESSIBLE	PLYWD.	PLYWOOD	VERT.	VERTICAL
CPT.	CARPET	HD.	HEAD	POLY.	POLYETHYLENE	V.G.B.	VERTICAL GRAB BAR
C.T.	CERAMIC TILE	HDPL.	HIGH DENSITY PLASTIC LAMINATE	PR.	PAIR	V.I.F.	VERIFY IN FIELD
C.U.	CONDENSING UNIT	HDR.	HEADER	PSI	POUNDS PER SQUARE INCH	V.T.R.	VENT THROUGH ROOF
D.	DEEP / DEPTH	HDW.	HARDWARE	PSF	POUNDS PER SQUARE FOOT	V.W.C.	VINYL WALL COVERING
D.A.F.S.	DIRECT APPLIED FINISH SYSTEM	HGT. / HT.	HEIGHT	P.T.	PRESSURE TREATED	W.	WIDE
D.F.	DRINKING FOUNTAIN	H.M.	HOLLOW METAL	PT.	PAINT	W/	WITH
DIA. / ⌀	DIAMETER	HORIZ.	HORIZONTAL	PTD.	PAINTED	W.C.	WATER CLOSET
DIM.	DIMENSION	H.P.	HEAT PUMP	P. D.	PAPER TOWEL DISPENSER	W.D.R.	WALL-MOUNTED DATA RACK
DIST.	DISTANCE	HVAC	HEATING, VENTILATION AND AIR CONDITIONING	PVC	POLYVINYL CHLORIDE	W.H.	WATER HEATER
DN. / DWN.	DOWN	I.D.	INSIDE DIMENSION	R.	RADIUS	W.S.D.	WALL-MOUNTED SOAP DISPENSER
D.O.	DOOR OPENING	IN.	INCH / INCHES	RB	RANDALL BROTHERS OR EQUAL	WP.	WEATHERPROOF
DOC.	DOCUMENT	INCL.	INCLUDE / INCLUDED / INCLUDING	R.C.P.	REFLECTED CEILING PLAN	WD.	WOOD
D.P.G.	DUAL PIPE GUARD	INT.	INTERIOR	R.D.	ROOF DRAIN	WDW.	WINDOW
D.S.	DOWNSPOUT	INSUL.	INSULATE / INSULATED/ INSULATION	REC.	RECOMMENDATIONS	W.R.	WASTE RECEPTACLE
DTL.	DETAIL	JT.	JOINT	RECPT.	RECEPTACLE	W.S.	WOOD STAIN
D.W.	DISHWASHER	K.B.	KNOX BOX	REF. / REFR.	REFRIGERATOR	W.T.F.	WET TROWEL FINISH
DWG.	DRAWING	LAV.	LAVATORY	REINF.	REINFORCED / REINFORCING	W.W.F.	WELDED WIRE FABRIC

VICINITY MAP



REVISION HISTORY

REV. NO.	DATE	DESCRIPTION	REVISED SHEETS

Note:
Millard, Inc., Architect of Record, is not responsible for interpreting the intent of the construction documents, including making modifications as may be necessary during the construction phase; and that the Architect of Record is no longer liable for the work where changes to these documents have been made.

STATE OF GEORGIA
MATTHEW J. MILLARD
REGISTERED ARCHITECT

CODE REVIEW - GARAGE

GOVERNING AUTHORITY:

City of Social Circle, Planning & Zoning
166 N Cherokee Road, Social Circle, Georgia 30025Office: 770-464-2380
Hours: M-F 8:00 AM - 5:00 PM

ADOPTED CODES WITH GEORGIA STATE AMENDMENTS:

International Building Code	2012 Edition w/ 2014 & 2015 GA Amendments
International Fire Code	2012 Edition w/ 2014 GA Amendments
International Plumbing Code	2012 Edition w/ 2014 & 2015 GA Amendments
International Mechanical Code	2012 Edition w/ 2014 & 2015 GA Amendments
International Fuel Gas Code	2012 Edition w/ 2014 & 2015 GA Amendments
National Electric Code	2014 Edition
International Energy Conservation Code	2009 Edition w/ 2011 & 2012 GA Amendments
Life Safety Code (NFPA 101)	2012 Edition
GA State Handicapped Accessibility Law 120-3-20	2010 Edition
GA Safety Fire Law, Chapter 120-3-3	January 1, 2015

INTERNATIONAL BUILDING CODE (IBC):

A. Occupation Classification (Chapter 3):
   1. Vehicle Maintenance Facility with Equipment Storage: Storage, Group S-1; Moderate Hazard

B. Physical Properties of Proposed Buildings:
   1. Building Areas: 11,516GSF (Mezzanine: 1,760 SF)
   2. Grade Elevation: TBD; Refer to Civil Drawings
   3. Building Height (Feet): 30'-7" Maximum
   4. Building Height (Stories): One (1) with a Mezzanine
   5. Separation Distance from Exterior Walls to Assumed & Common Property Lines:
      a. Front (East): Greater Than 60'-0"
      b. Side, Left (South): Greater Than 60'-0"
      c. Rear (West): Greater Than 60'-0"
      d. Side, Right (North): Greater Than 60'-0"

C. Type Of Construction Classification (Chapter 5 & 6): Type IIB; Not Sprinklered.
   1. Allowable Height and Building Areas (Table 503):
      f. Storage, Group S-1:
         1) Height (Feet): 55'-0"
         2) Height (Story): Two (2)
         3) Area (Per Story): 17,500 SF
   2. Mezzanines (Section 505):
      a. General (505.1): Mezzanine is considered a portion of story below. Does not contribute to either building area or number of stories.
      b. Area Limitation (505.2): Aggregate area of mezzanine shall not exceed one-third floor area of the space in which it is located.
         1) Area of Space with Mezzanine: 3,658 SF
         2) Area of Mezzanine: 1,760 SF (48%)

D. Special Detailed Requirements Based on Use and Occupancy (Chapter 4):
   1. Repair Garages:
      a. Repair Garage Floors Shall Be of Concrete or Similar Noncombustible and Nonabsorbent Materials
   2. Motor Fuel-Dispensing Facilities:
      a. The Vehicle Shall Be Fueled on Noncoated Concrete or Other Approved Paving Material Having A Resistance Not Exceeding 1 Megohm As Determined by the Methodology In EN 1081.
      b. Canopies Under Which Fuels Are Dispensed Shall Have A Clear, Unobstructed Height of Not Less Than 13 Feet 6 Inches to Lowest Projecting Element in Vehicle Drive-Through Area. Canopies and Their Supports Over Pumps Shall Be of Noncombustible Materials, Fire-Retardant-Treated Wood Complying with Chapter 23, Wood Of Type IV Sizes or of Construction Providing 1-Hour Fire Resistance.

E. Detailed Construction Requirements (Various Chapters):
   1. Fire- Resistance Rating Requirements for Building Elements (Table 601):
      a. Primary Structural Frame: 0-Hour.
      b. Bearing Walls:
         1) Exterior: 0-Hour.
         2) Interior: 0-Hour.
      c. Nonbearing Walls and Partitions:
         1) Exterior: 0-Hour
         2) Interior: 0-Hour.
      d. Floor Construction & Associated Secondary Members: 0-Hour.
      e. Roof Construction & Associated Secondary Members: 0-Hour.
   2. Maximum Area Of Exterior Wall Openings (Table 705.8):
      a. Fire Separation Distance (Feet): 30 Feet or Greater.
      b. Degree of Opening Protection: Unprotected, Not Sprinklered:
      c. Allowable Area: No Limit.
   3. Opening Fire Protection Assemblies, Ratings and Markings (Table 716.5):
      a. Fire Walls and Fire Barriers having a required fire-resistance rating greater than 1 Hour:
         1) Required Wall Assembly Rating: 1 Hour
         2) Minimum Fire Door and Fire Shutter Assembly Rating: 1 Hour
         3) Door Vision Panel Size: 100 Square Inches.
         4) Fire Rated Glazing Marking Door Vision Panel: D-H-90.
         5) Minimum Sidelight/Transom Assembly Rating:
            a) Fire Protection: Not Permitted.
            b) Fire Resistance: 1 Hour.
         6) Fire-Rated Glazing Marking Sidelight/Transom Panel:
            a) Fire Protection: Not Permitted
            b) Fire Resistance: W-60.

F. Automatic Sprinkler System (Section 903):
   1. Group S-1, Repair Garages: Not Required

F. Minimum Number of Required Plumbing Fixtures (Table 2902.1):
   a. Group S-1: Occupancy Load of 23
   b. Water Closets:
      1) Male: 1
      2) Female: 1
   b. Lavatories:
      1) Male: 1
      2) Female: 1
   c. Bathtubs/ Showers: Not Applicable.
   d. Drinking Fountains: 1

LIFE SAFETY CODE - NFPA 101:

A. Classification of Occupancy:
   1. Special-Purpose Industrial (Chapter 40)

B. Classification Of Hazard Of Contents (6.2.2):
   1. Special-Purpose Industrial (40.1.5): Ordinary Hazard

C. Minimum Construction Requirements:
   1. Special-Purpose Industrial (40.1.6): No Requirements

D. Occupant Load (40.1.7):
   1. Determined on basis of the occupant load factors of table 7.3.12 that are characteristic of the use of the space, or shall be determined as the maximum probably population of the space under consideration, which ever is greater.
   2. Area: 11,516 SF / 500 SF Per Person = 23

E. Egress Capacity (7.3):
   1. Corridor or Passageway Width: Clear Width not less than 44”
   2. Stairways: 0.3" Per Person (44" Minimum)
   3. Level Components: 0.2" Per Person

F. Number of Exits (7.4):
   1. Not Less Than 2 Separate Exits On Each Story

G. Arrangement of Means of Egress (7.5):
   1. Special-Purpose Industrial (Table 40.2.5):
      a. Dead-End Corridors: Shall Not Exceed 50 Feet (Not Sprinklered)
      b. Common Paths of Travel: Shall Not Exceed 50 Feet (Not Sprinklered)

H. Travel Distance to Exits (7.6):
   1. Special-Purpose Industrial (Table 40.2.6): Shall Not Exceed 300 Feet

I. Emergency Lighting (7.9):
   1. Special-Purpose Industrial (40.2.9): Not Required

J. Protection from Hazards:
   1. Special-Purpose Industrial (40.3.2): No Requirements

K. Interior Finish (40.3.3.2):
   1. Interior Wall and Ceiling Finish:
      a. Exits and Exit Access Corridors: Class A or B.
      b. Other Area: Class A, B, or C.
   2. Interior Floor Finish(10.2) :
      a. Industrial: Not less than Class II in Exit Enclosures

L. Detection, Alarm and Communications Systems:
   1. Industrial (40.3.4): Not Required, Less than 100 Persons

M. Extinguishment Requirements:
   1. Industrial (40.3.5): No Requirements

INTERNATIONAL FIRE CODE (IFC):

A. Portable Fire Extinguishers (Section 906): Required
   1. Ordinary (Moderate) Hazard Occupancy:
   2. Minimum Rated Single Extinguisher: 2-A
   3. Maximum Floor Area Per Unit Of A: 1,500 SF
   4. Maximum Floor Area for Extinguisher: 11,250 SF
   5. Maximum Travel Distance to Extinguisher: 75 Feet

B. Portable Fire Extinguishers having a gross weight not exceeding 40 pounds shall be installed so that its top is not more than 54 inches and not less than 48inches above the floor. hand-held portable fire extinguishers having a gross weight exceeding 40 pounds shall be installed so that its top is not more than 3.5 feet above the floor. the clearance between the floor and the bottom of installed hand-held extinguishers shall not be less than 4 inches.

INTERNATIONAL ENERGY CONSERVATION CODE (IECC):

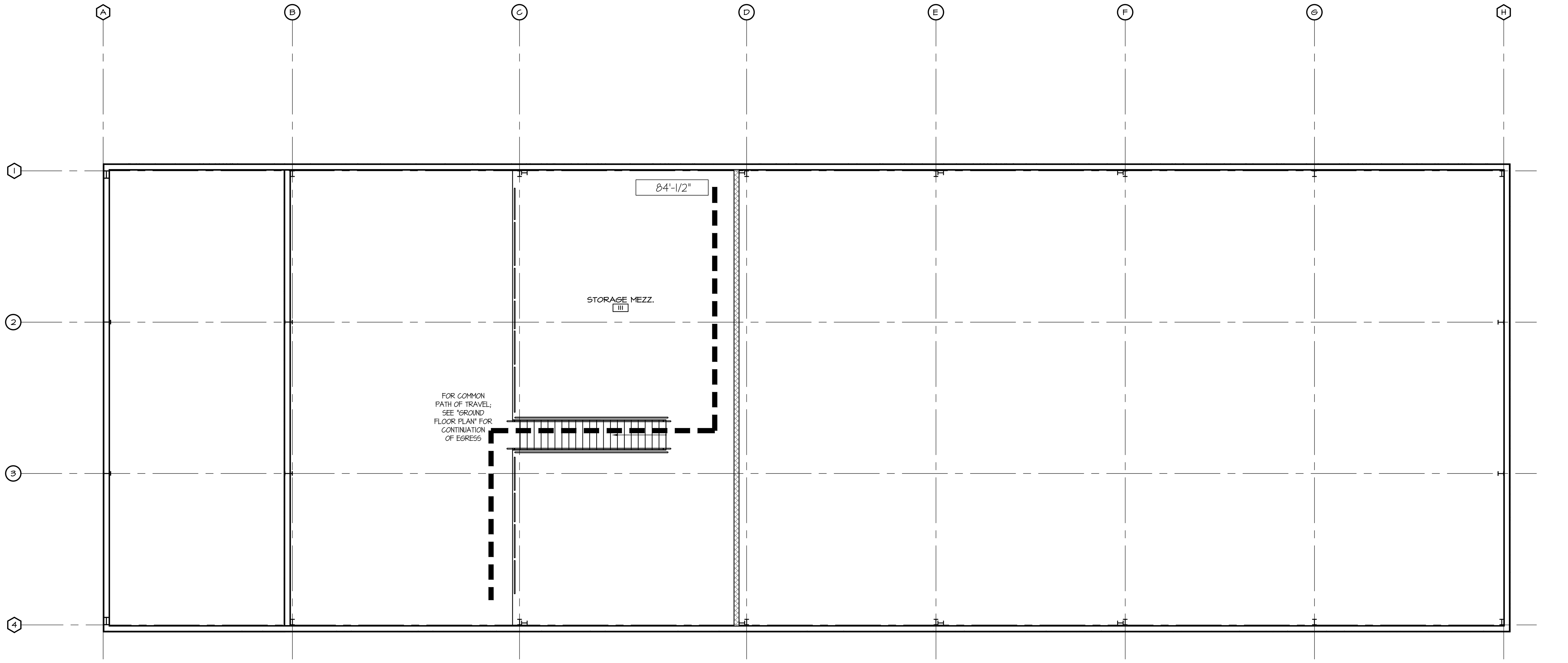
A. Climate Zone (Figure 301.1 Or Table 301.1): Zone 3-A

B. Building Envelope Requirements (Table 502.2(1)):
   1. Roofs; Metal Buildings: R-30
   2. Walls; Above Grade; Mass: R-5.7 Continuous Insulation (Not Required Per Note "E")
   3. Walls; Above Grade; Metal Building: R-13
   4. Walls; Above Grade; Metal Framed: R-13 + R-3.8 CI
   5. Slab-On-Grade Floors; Unheated Slabs: No Requirement
   6. Opaque Doors, Swinging: U - 0.70
   7. Roll-Up or Sliding: U - 1.45

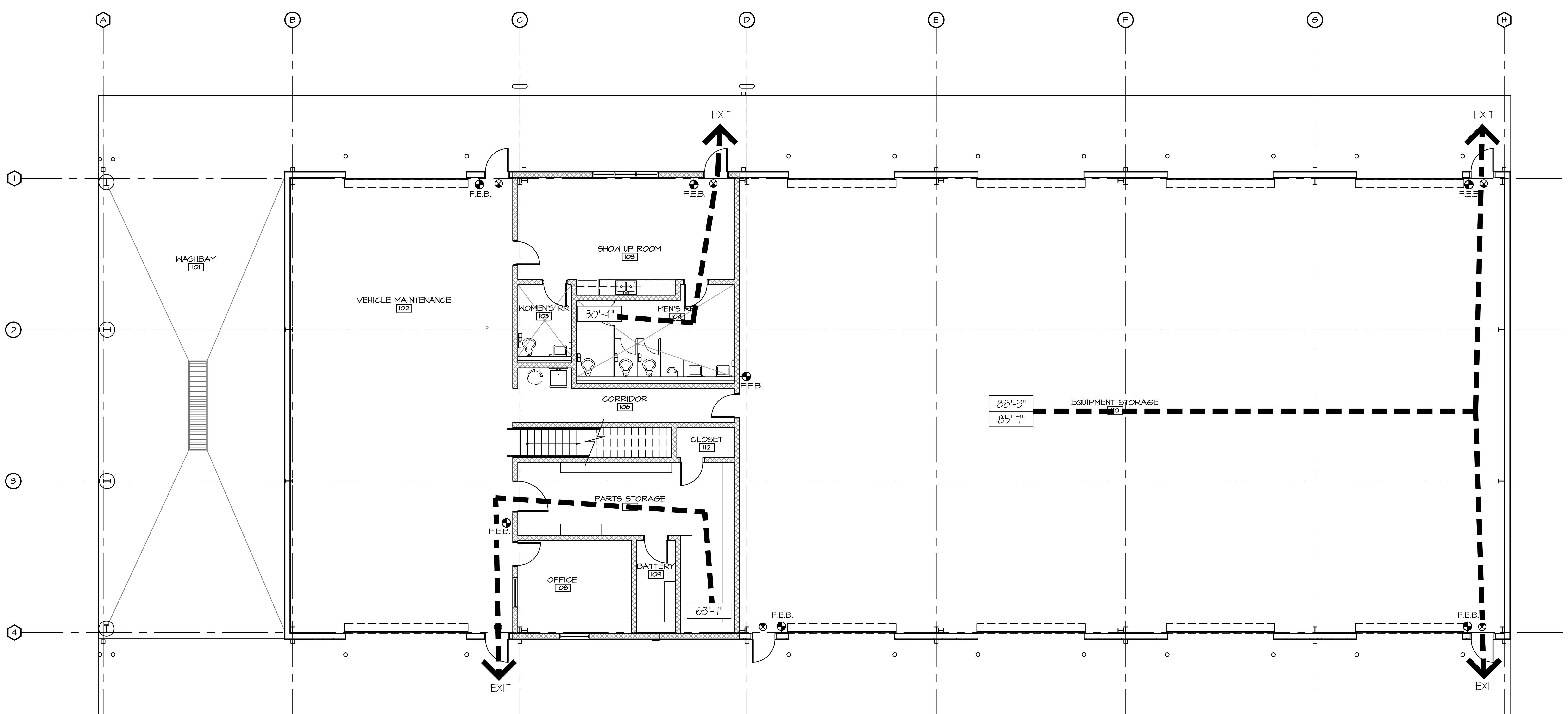
C. Metal Building Assembly Descriptions (Table 502.2.(2)):
   1. Roofs: R-19 + R-10.
      a. Filled Cavity Roof.
      b. Thermal Blocks are a minimum, R-5 of rigid insulation, which extends 1 inch beyond the width of the purlin on each side, perpendicular to the purlin.
      c. This construction is R-10 insulation batts draped perpendicular over the purlins, with enough looseness to allow R-19 batt to be laid above it, parallel to the purlins. Thermal blocks are then placed above the purlin/batt, and the roof deck is secured to the purlins.
      d. Reference: ASHRAE/IESNA 90.1 Table A2.3.
   2. Walls: R-13.
      a. Single Insulation Layer.
      b. The first layer of R-19 insulation batts is installed continuously
      c. Perpendicular to the girts and is compressed as the metal skin is attached to the girts.
      d. Reference: Ashrae/ Iesna 90.1 Table A3.2.

D. Building Envelope Requirements - Fenestration (Table502.3):
   1. Vertical Fenestration (40% Maximum of Above-Grade Wall):
      a. Framing Materials Other Than Metal with or without Metal Reinforcement or Cladding: 0.65.
      b. Metal Framing with or without Thermal Break:
         1) Curtain Wall/ Storefront U-Factor: 0.60
         2) Entrance Door U-Factor: 0.90
         3) All Other U-Factor: 0.65
      c. SHGC - All Frame Types; PF > 0.5: 0.40.
      d. Skylights (3% Maximum): U-Factor: 0.65., SHGC: 0.35.

E. Vestibules: Not Required (Per Exception #4)



2 MEZZANINE FLOOR PLAN: LIFE SAFETY PLAN
A0.01 SCALE: 1/8" = 1'-0"

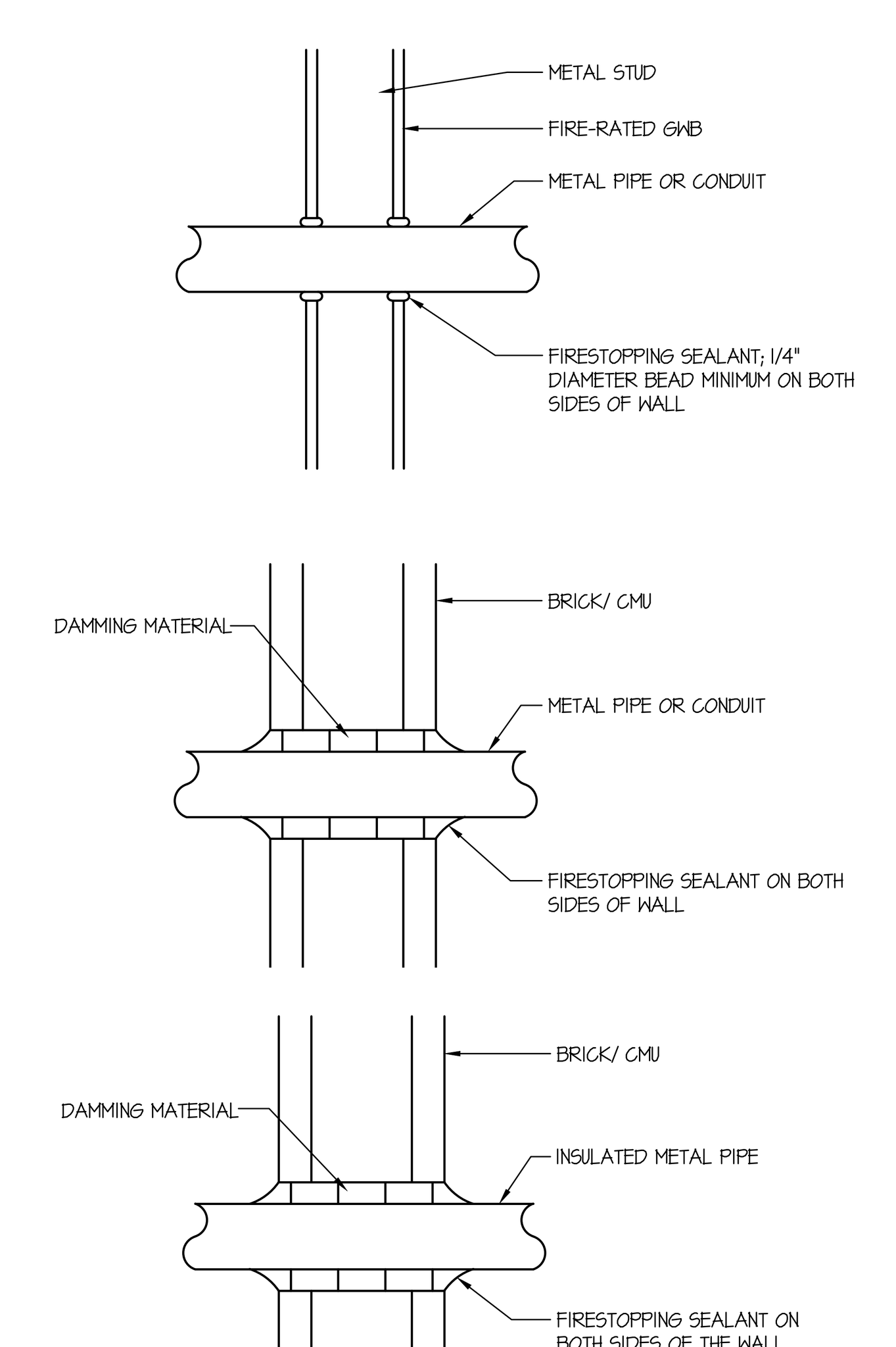


1 FLOOR PLAN: LIFE SAFETY PLAN
A0.01 SCALE: 1/8" = 1'-0"

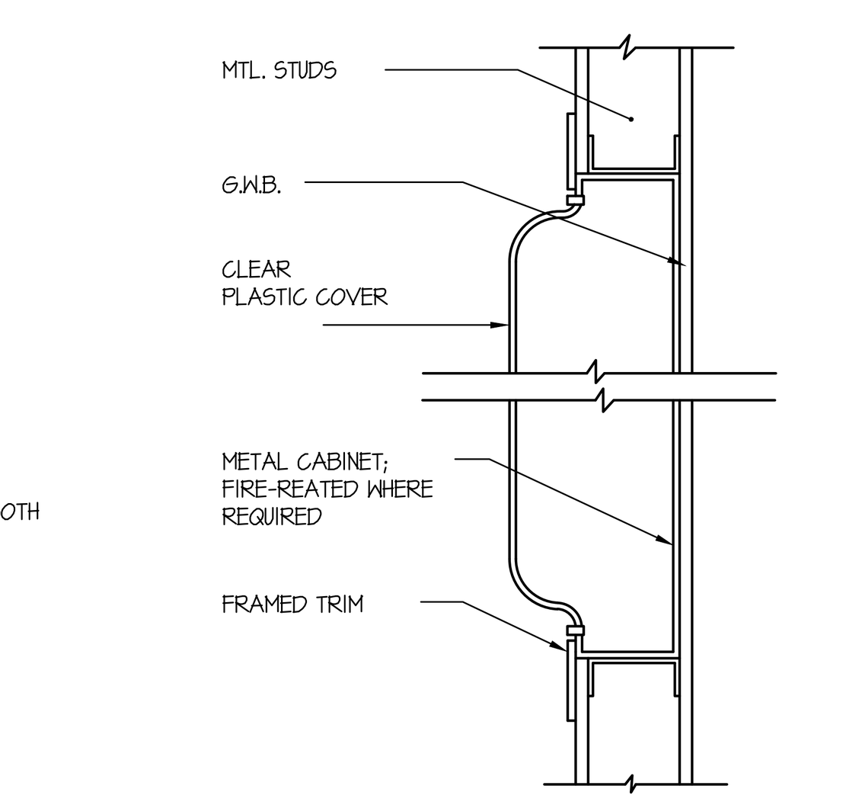
LIFE SAFETY PLAN LEGEND:

FEB — FIRE EXTINGUISHER; BRACKET-MOUNTED: MULTI-PURPOSE DRY CHEMICAL 4A-80BC U/L RATING

EXIT SIGN W/ DIRECTION OF EGRESS WHERE INDICATED; REFER TO ELECTRICAL



3 FIRE EXTINGUISHER CABINET DETAIL
A0.01 SCALE: 1 1/2" = 1'-0"



4 FIRE EXTINGUISHER CABINET DETAIL
A0.01 SCALE: 1 1/2" = 1'-0"

PROJECT NUMBER	2512
DATE	03/12/26
DRAWN BY	NES,MJM
APPROVED BY	
REVISIONS	

CITY OF SOCIAL CIRCLE
PUBLIC WORKS DEPARTMENT
New Fleet Facility
New Vine Circle, Social Circle, GA 30025

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STATE OF GEORGIA
MATTHEW J. MILLARD
CERTIFICATE NO. 016201
REGISTERED ARCHITECT

SHEET NUMBER
A0.01

1 AS1.01 SITE PLAN
SCALE: 1" = 40'-0"

PROJECT NUMBER	2512
DATE	03/12/26
DRAWN BY	NES,MJM
APPROVED BY	

REVISIONS

CITY OF SOCIAL CIRCLE
PUBLIC WORKS DEPARTMENT
New Fleet Facility
New Vine Circle, Social Circle, GA 30025

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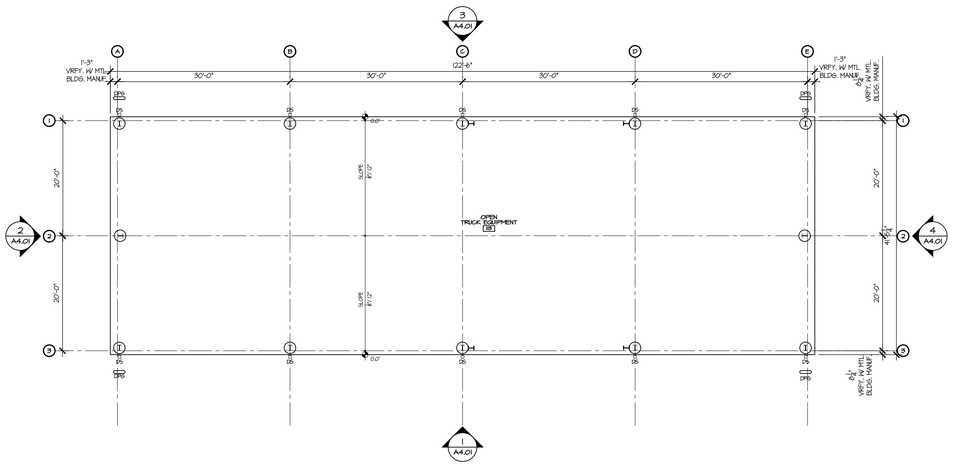
770-993-2034

Millard, Inc. ARCHITECTS ENGINEERS

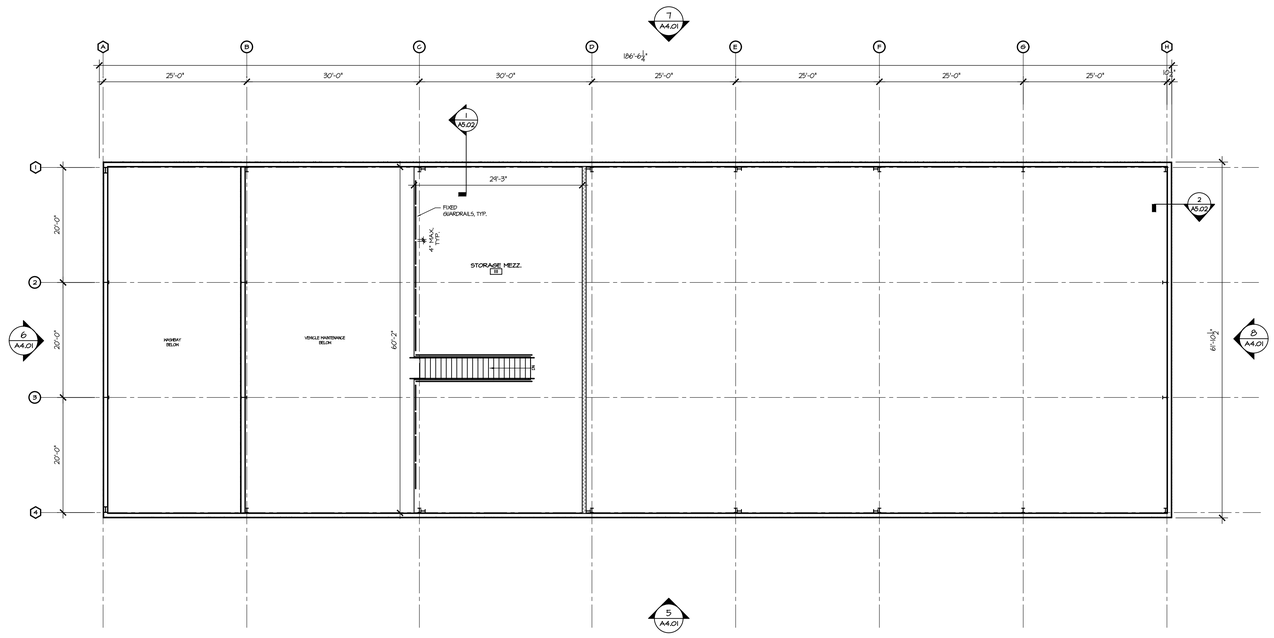
STATE OF GEORGIA
MATTHEW J. MILLARD
REGISTERED ARCHITECT

SHEET NUMBER

AS1.01



1 A1.01 COVERED EQUIPMENT STORAGE PLAN
SCALE: 3/32" = 1'-0"



2 A1.01 VEHICLE MAINTENANCE AND STORAGE MEZZANINE PLAN
SCALE: 3/32" = 1'-0"

GENERAL CONSTRUCTION NOTES:

1. ALL WORK SHALL BE DONE SATISFACTORILY IN A PROFESSIONAL MANNER SUBJECT TO INSPECTION DURING CONSTRUCTION AND FINAL APPROVAL OF OWNER & ARCHITECT.
2. ANY SUBSTITUTION OF MATERIALS OR EQUIPMENT OR ANY ALTERATIONS FROM DRAWINGS AND/OR SPECIFICATIONS SHALL BE APPROVED BY OWNER & ARCHITECT.
3. ALL COLOR SELECTIONS SHALL BE SELECTED AND APPROVED BY OWNER & ARCHITECT.
4. ALL MATERIALS AND INSTALLATIONS SHALL CONFORM TO ALL APPLICABLE CODES.
5. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS (INCLUDING DIMENSIONS) AND BRING DISCREPANCIES TO ATTENTION OF OWNER & ARCHITECT BOTH VERBALLY AND IN WRITING IMMEDIATELY UPON DISCOVERY.
6. DIMENSIONS ARE TAKEN FROM FACE OF CMU, FACE OF GIRTS, OR AS SPECIFICALLY INDICATED OTHERWISE.
7. ALL DIMENSIONS NOTED AS "CLEAR" SHALL BE TAKEN FROM FINISHED FACES.
8. ALL WALLS/ PARTITIONS SHALL BE BRACED OR ANCHORED TO STRUCTURE ABOVE AS REQUIRED.
9. WHERE DRAWINGS/ SPECIFICATIONS ESTABLISH CONFLICTING REQUIREMENTS, MORE STRINGENT REQUIREMENT SHALL BE ENFORCED. CONTRACTOR SHALL REFER CONFLICTING REQUIREMENTS TO ARCHITECT FOR CLARIFICATION PRIOR TO PROCEEDING W/ WORK.

FLOOR PLAN PARTITION LEGEND:

- WALL TYPE INDICATION WHERE INDICATED ON PROPOSED FLOOR PLAN
- A — NON-RATED PARTITION: 8" REINFORCED CMU EXTEND TO STRUCTURE ABOVE; REFER TO STRUCTURAL.
- B — NEW 2-HOUR FIRE-RATED-RESISTANT EXTERIOR WALL: CLASS D-2 8" (U.N.O.) REINF. CMU W/ RUNNING BOND. FILL ALL OPEN CELLS OF CMU W/ MASONRY FOAM INSUL. REFER TO STRUCTURAL FOR ADDITIONAL REQUIREMENTS. ON EXTERIOR: METAL WALL PANELS AND FURRING CHANNELS, MEET OR EXCEED U.L. DESIGN NO. U902, OR APPROVED EQUAL. REFER TO U.L. DESCRIPTION ON SHEET A0.02.
- C — NON-RATED PARTITION: P.E.M.B. – METAL WALL PANELS, SIDE WALL GIRT, SPRAY FOAM INSULATION AND PLYWOOD TO 10'-0" ON INTERIOR WITH METAL LINER PANELS ABOVE.
- D — NON-RATED PARTITION: P.E.M.B. – PLYWOOD SIDE WALL GIRT,SPRAY FOAM INSULATION AND PLYWOOD TO 10'-0" ON INTERIOR WITH METAL LINER PANELS ABOVE BOTH SIDES.

SYMBOLS LEGEND:

- 101 — DOOR NUMBER
- A — WINDOW TYPE
- ROOM NAME / NO. — ROOM TAG
- A A — COLUMN LINE
- 1 / A1 — WALL SECTION
- A / A1 — BUILDINGS SECTION
- 1 / A1 — DETAIL
- 1 / A1 — ELEVATION
- 1 / A1 — ENLARGED PLAN

FLOOR PLAN LEGEND:

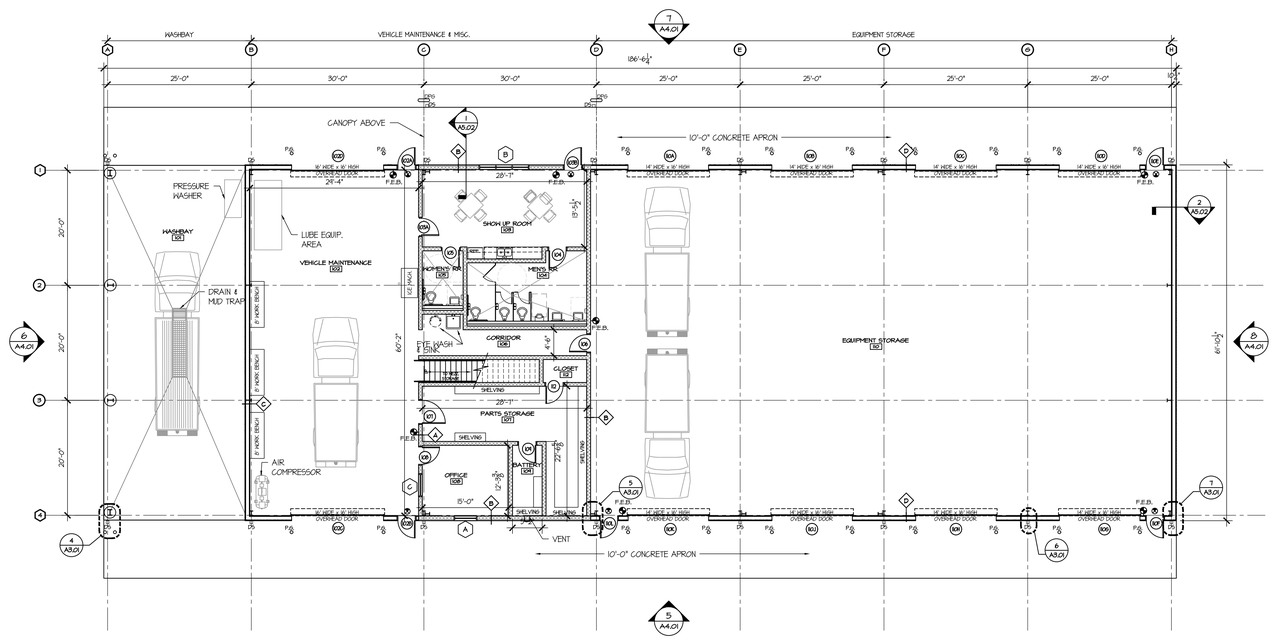
- CR — CARD READER (N.I.C.); REFER TO ELECTRICAL FOR REQUIREMENTS.
- HC — ADA PUSHBUTTON (WALL-MOUNTED/FLOOR STANDING); REFER TO ELECTRICAL FOR REQUIREMENTS.
- KB — 3200 SERIES KNOX-BOX (SURFACE-MOUNT/DARK BRONZE/TAMPER SWITCH W/ SECURITY ALARM); VERIFY MODEL # W/ LOCAL FIRE DEPARTMENT PRIOR TO ORDERING; REFER TO ELECTRICAL FOR REQUIREMENTS FOR 2ND KNOX BOX.

E.H.H. - ELECTRIC WALL HEATER; REFER TO MECHANICAL.

F.E.B. - FIRE EXTINGUISHER (BRACKET-MOUNTED); REFER TO SHEET A0.0X.

F.E.C. - FIRE EXTINGUISHER (CABINET-MOUNTED); REFER TO SHEET A0.0X.

W.F.C.U. - WALL-MOUNTED FAN COIL UNIT (HIGH); REFER TO MECHANICAL.



3 A1.01 VEHICLE MAINTENANCE AND STORAGE PLAN
SCALE: 3/32" = 1'-0"

NOTE:

1. ALL OUTSIDE CORNERS TO BE ROUNDED CMU BLOCK.

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CERTIFICATE NO. 019581
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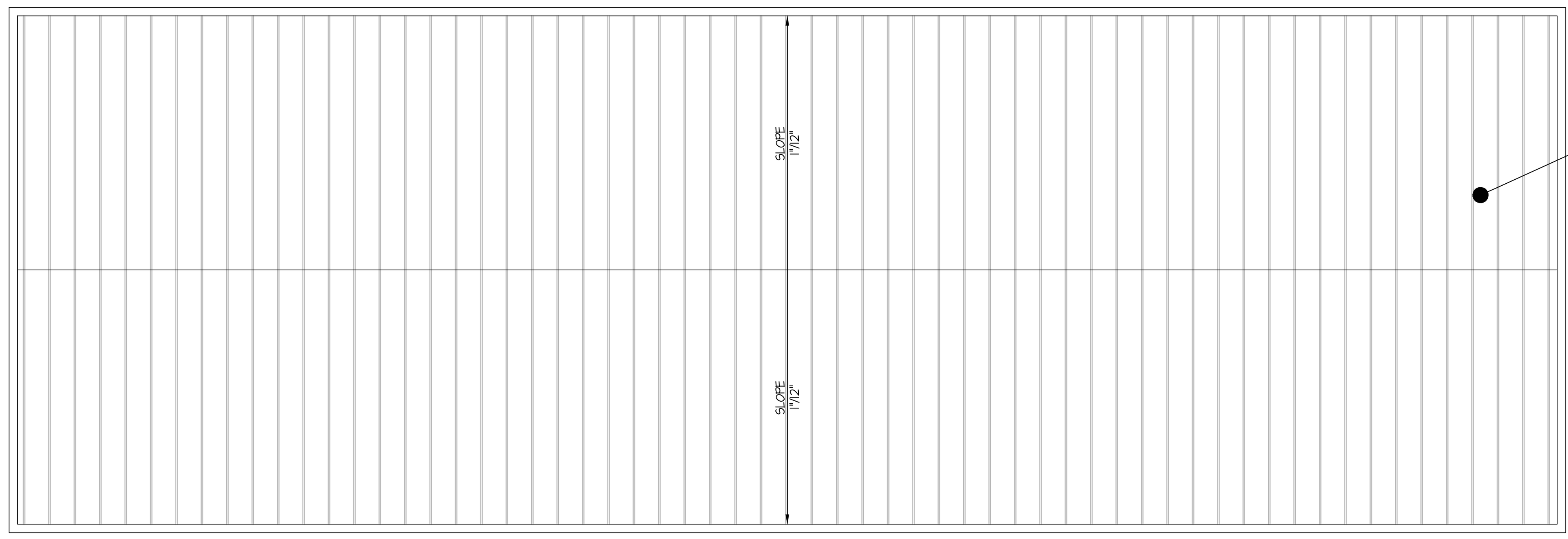
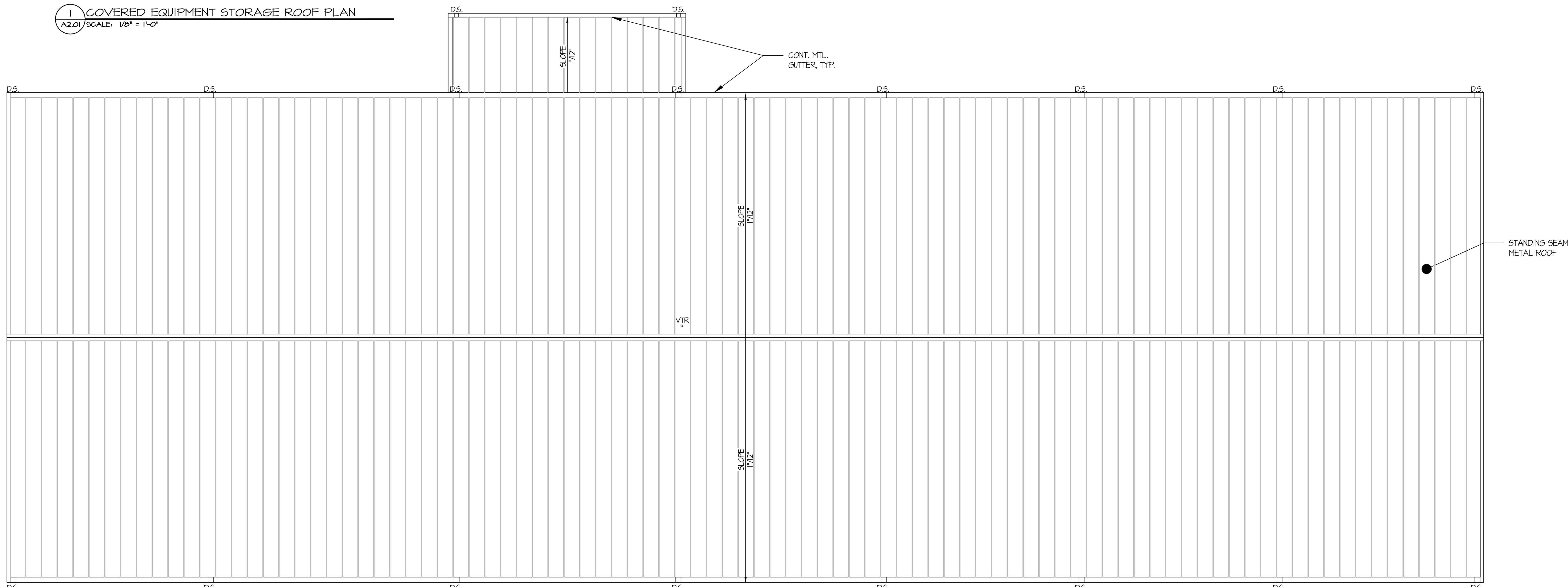


1 COVERED EQUIPMENT STORAGE ROOF PLAN
A2.01 SCALE: 1/8" = 1'-0"



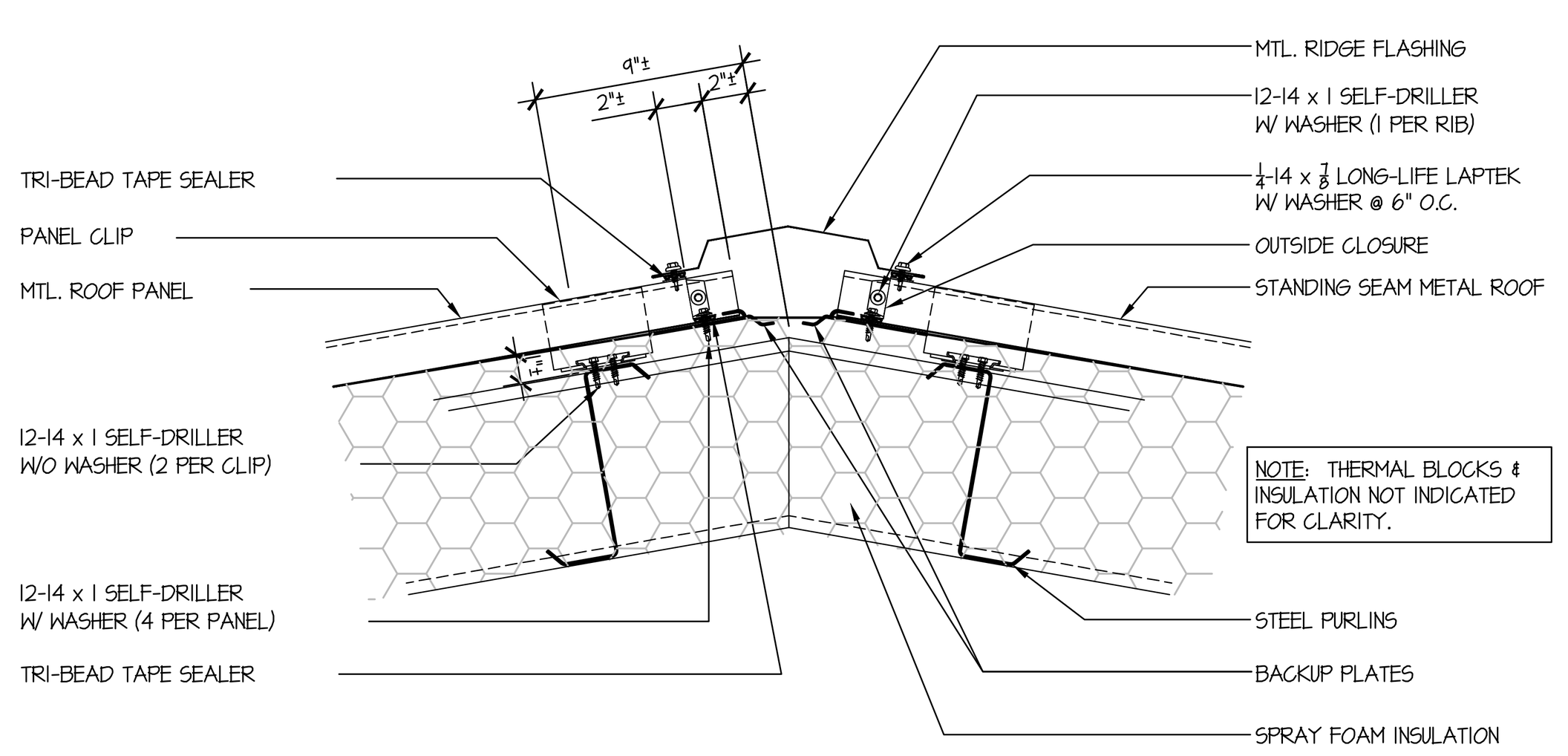
2 VEHICLE MAINTENANCE AND STORAGE ROOF PLAN
A2.01 SCALE: 1/8" = 1'-0"

FINISH SCHEDULE

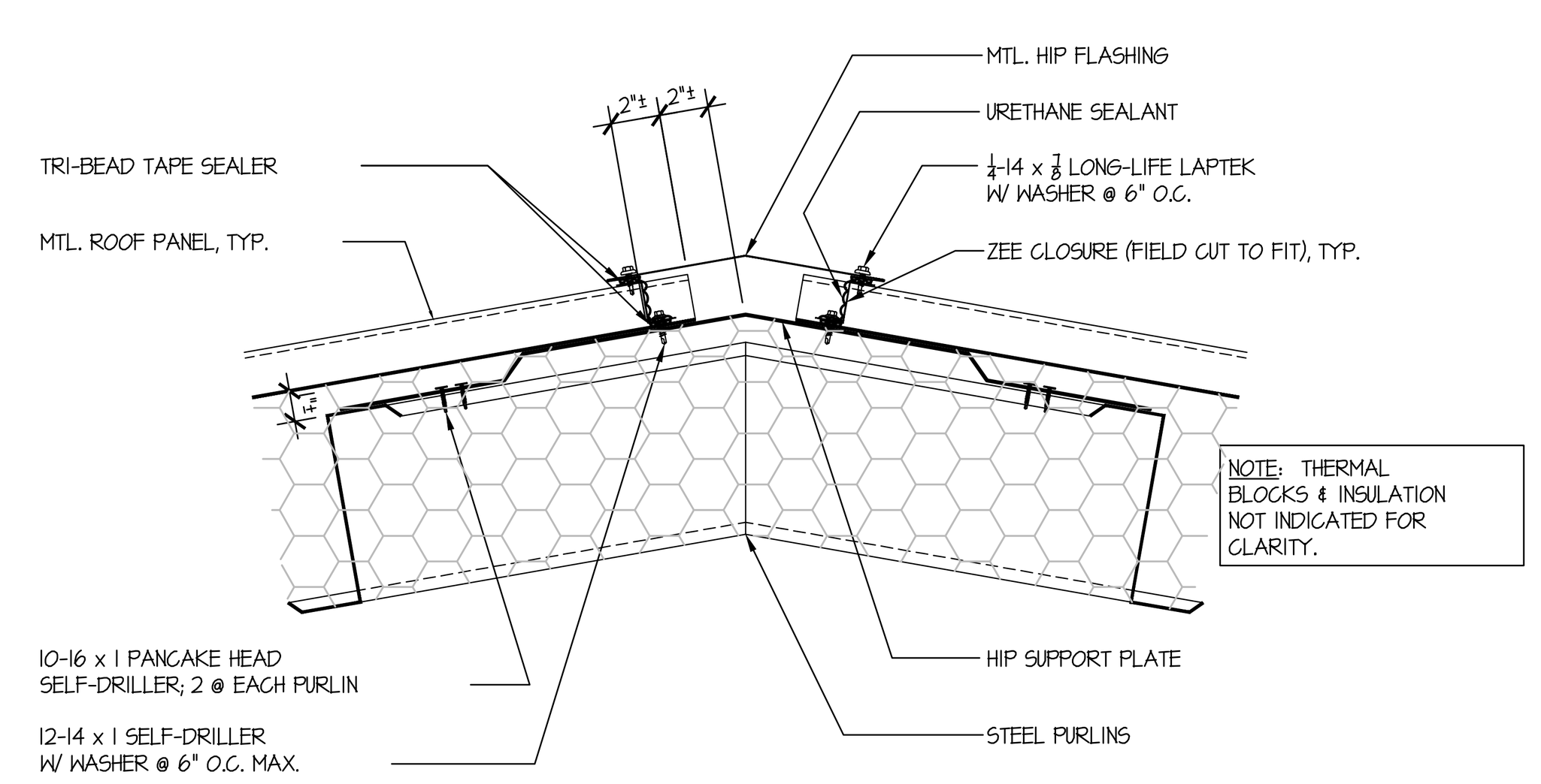
ROOM NUMBER	ROOM NAME	WALLS	TRIM	FLOORING	BASE	CEILING	CEILING HEIGHT	REMARKS
VEHICLE MAINTENANCE AND STORAGE								
101	WASHBAY	---	---	S. CONC.	RESIL.	EXPOSED	VARIES	---
102	VEHICLE MAINRENANCE	---	---	S. CONC.	RESIL.	EXPOSED	VARIES	---
103	SHOW UP ROOM	PAINT	PAINT	S. CONC.	PAINT	ACT	9'-0"	---
104	TOILET	PAINT	PAINT	RESINOUS	RESINOUS	ACT	9'-0"	---
105	TOILET	PAINT	PAINT	RESINOUS	RESINOUS	ACT	9'-0"	---
106	CORRIDOR	PAINT	PAINT	S. CONC.	PAINT	EXPOSED	---	---
107	PARTS STORAGE	PAINT	PAINT	S. CONC.	PAINT	EXPOSED	---	---
108	OFFICE	PAINT	PAINT	S. CONC.	PAINT	ACT	9'-0"	---
109	BATTERY	PAINT	PAINT	S. CONC.	PAINT	EXPOSED	---	---
110	EQUIPMENT STORAGE	---	---	S. CONC.	PAINT	EXPOSED	VARIES	---
111	STORAGE MEZZANINE	---	---	S. CONC.	RESIL.	EXPOSED	VARIES	---
112	CLOSET	PAINT	PAINT	S. CONC.	PAINT	EXPOSED	---	---
113	OPEN TRUCK EQUIPMENT	---	---	S. CONC.	RESIL.	EXPOSED	---	---

FINISH SCHEDULE NOTES:

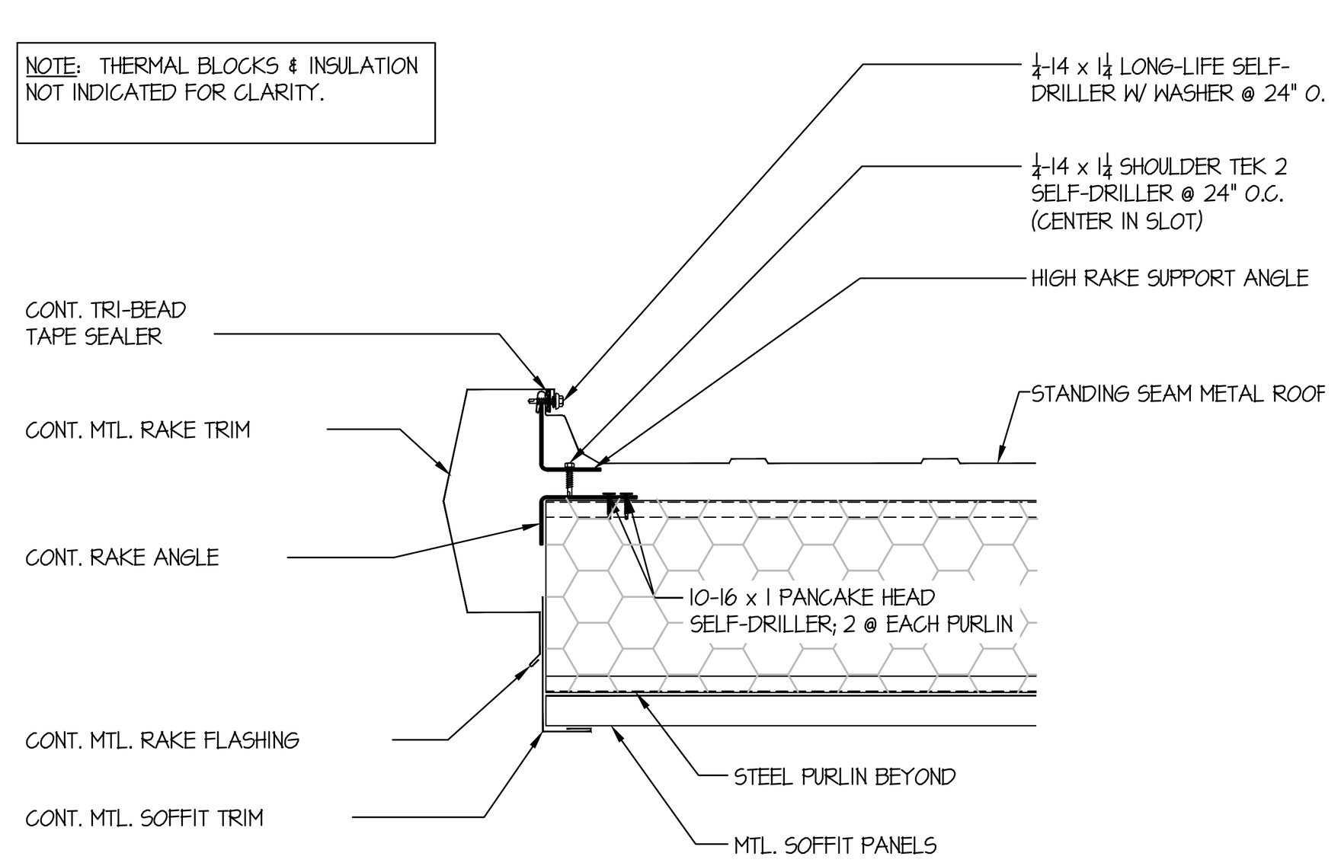
1. WHERE DUCTS, PIPES AND/OR CONDUIT ARE EXPOSED IN A SPACE, PAINT SAME COLOR AS WALLS OR CEILING, UNLESS INDICATED OTHERWISE.
2. PROVIDE TWO COATS OF ACRYLIC CONCRETE SEALER ON ALL EXPOSED SURFACES OF CONCRETE SLAB. INSTALL CONCRETE SEALER IN ACCORDANCE W/ MANUF.'S INSTALLATION INSTRUCTIONS. SUBMIT PRODUCT DATA FOR REVIEW PRIOR TO ORDERING. CONCRETE SEALER SHALL BE ONE OF FOLLOWING:
   A. TIAH; W.R. MEADOWS, INC.
   B. #8800; QUICKRETE.
   C. EXPOSITE 'SB'; LAMBERT CORPORATION.
3. ABBREVIATIONS:
   ACT - ACOUSTICAL CEILING TILES
   L.P. - METAL LINER PANELS (HIGH)
   S. CONC. - SEALED CONCRETE
4. PAINT ALL EXPOSED SURFACES OF STRUCTURAL & PRE-ENGINEERED STEEL FRAMING.
5. CONCRETE SLAB FINISH:
   A. INTERIOR EXPOSED SLABS- TROWEL & FINE- BROOM FINISH, REFER TO SPEC. 03-3000.
6. SLOPE CONCRETE SLAB & FLOOR FINISH (WHERE INDICATED) TO FLOOR DRAIN. SEE STRUCTURAL & PLUMBING FOR ADDITIONAL DETAILS.
7. PROVIDE PLYWOOD WALL FINISH IN GARAGE SPACE TO 10'-8" HEIGHT A.F.F. AND P.E.M.B. METAL LINER PANELS ABOVE.
8. PAINT 8" HIGH ACCENT COLOR FOR BASE ALONG CMU WALL.
9. ALL PAINTED CONCRETE BLOCK SHALL BE EPOXY SEMI-GLOSS; REFER TO PAINT SPECS.



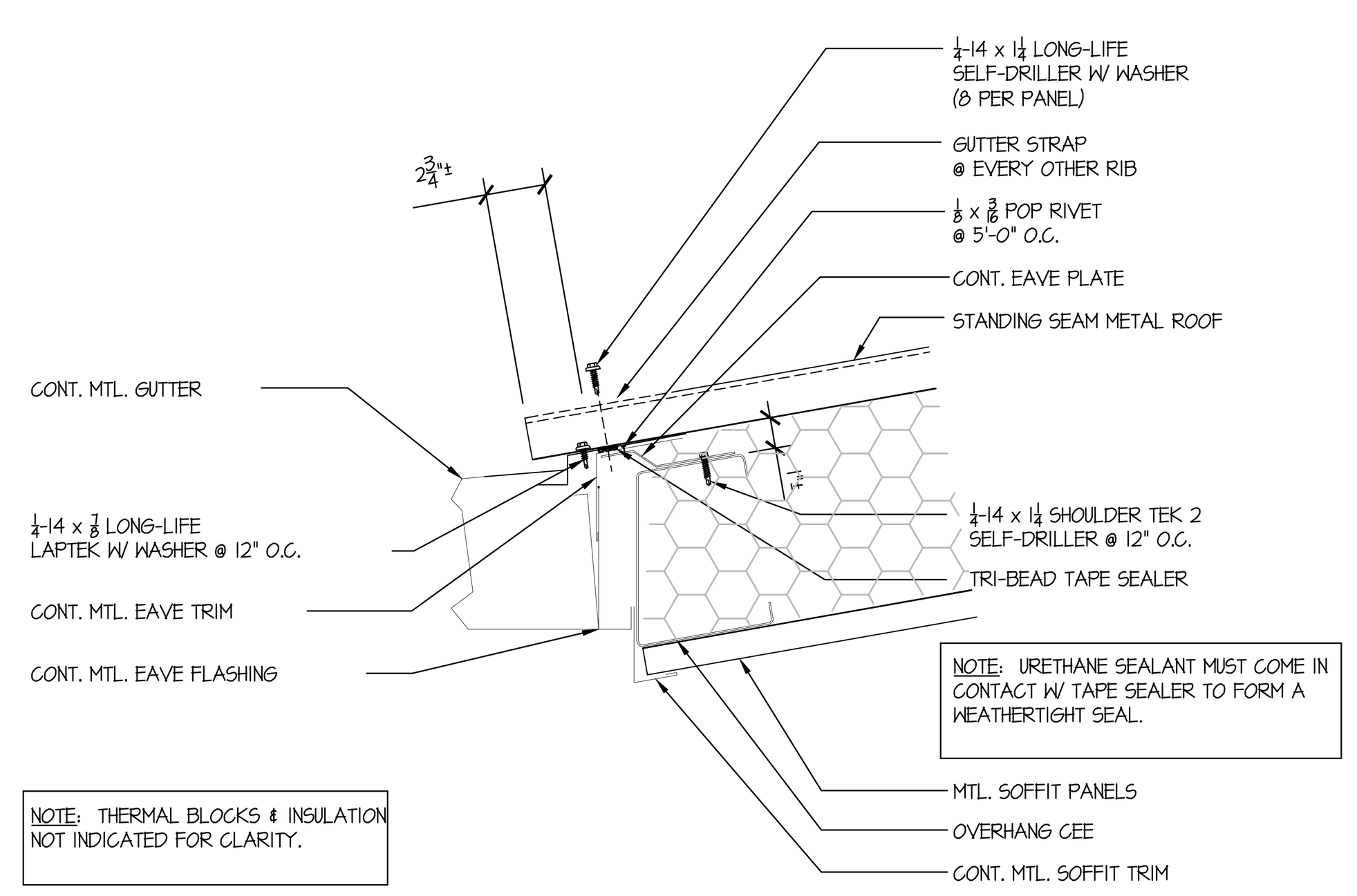
3 RIDGE FLASHING DETAIL
A2.01 SCALE: 1 1/2" = 1'-0"



4 RIDGE DETAIL
A2.01 SCALE: 1 1/2" = 1'-0"



5 RAKE DETAIL
A2.01 SCALE: 1 1/2" = 1'-0"



6 EAVE/GUTTER DETAIL
A2.01 SCALE: 1 1/2" = 1'-0"

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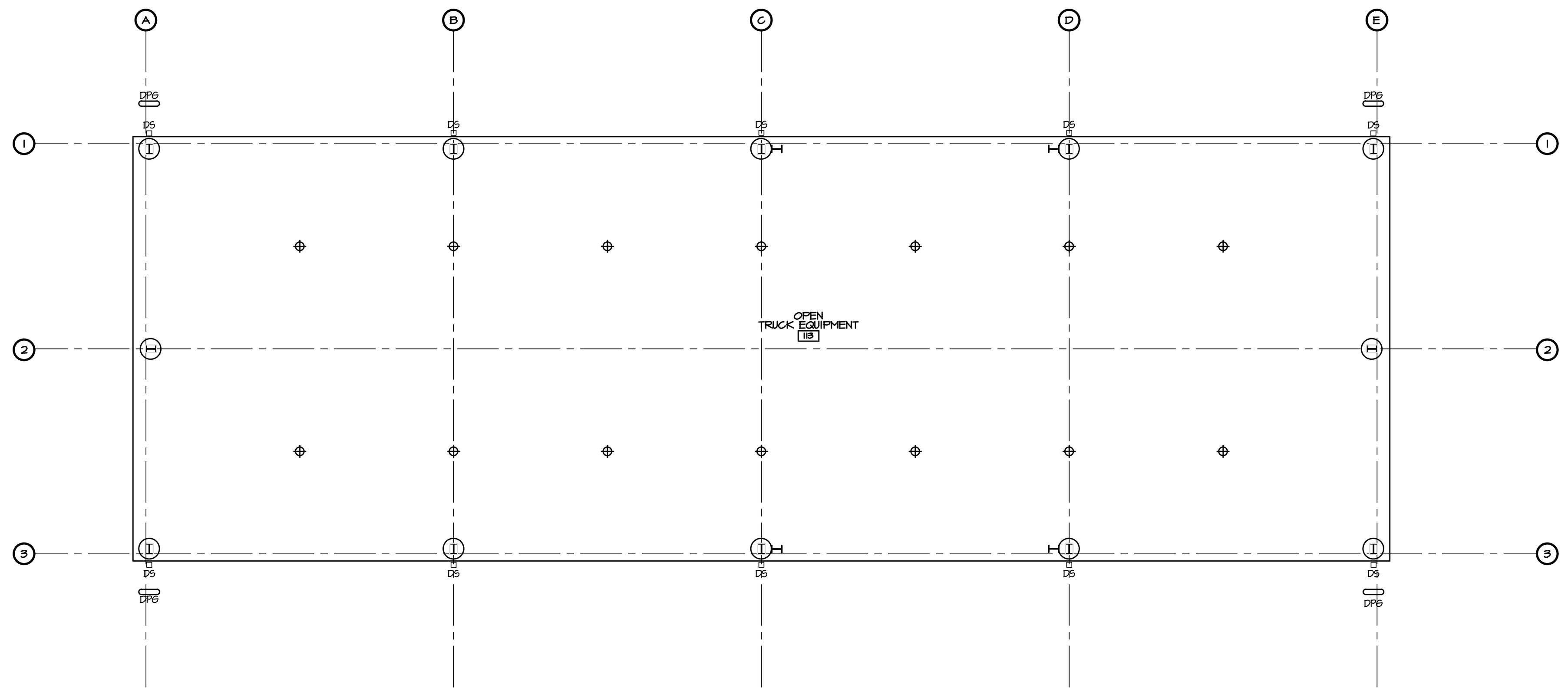
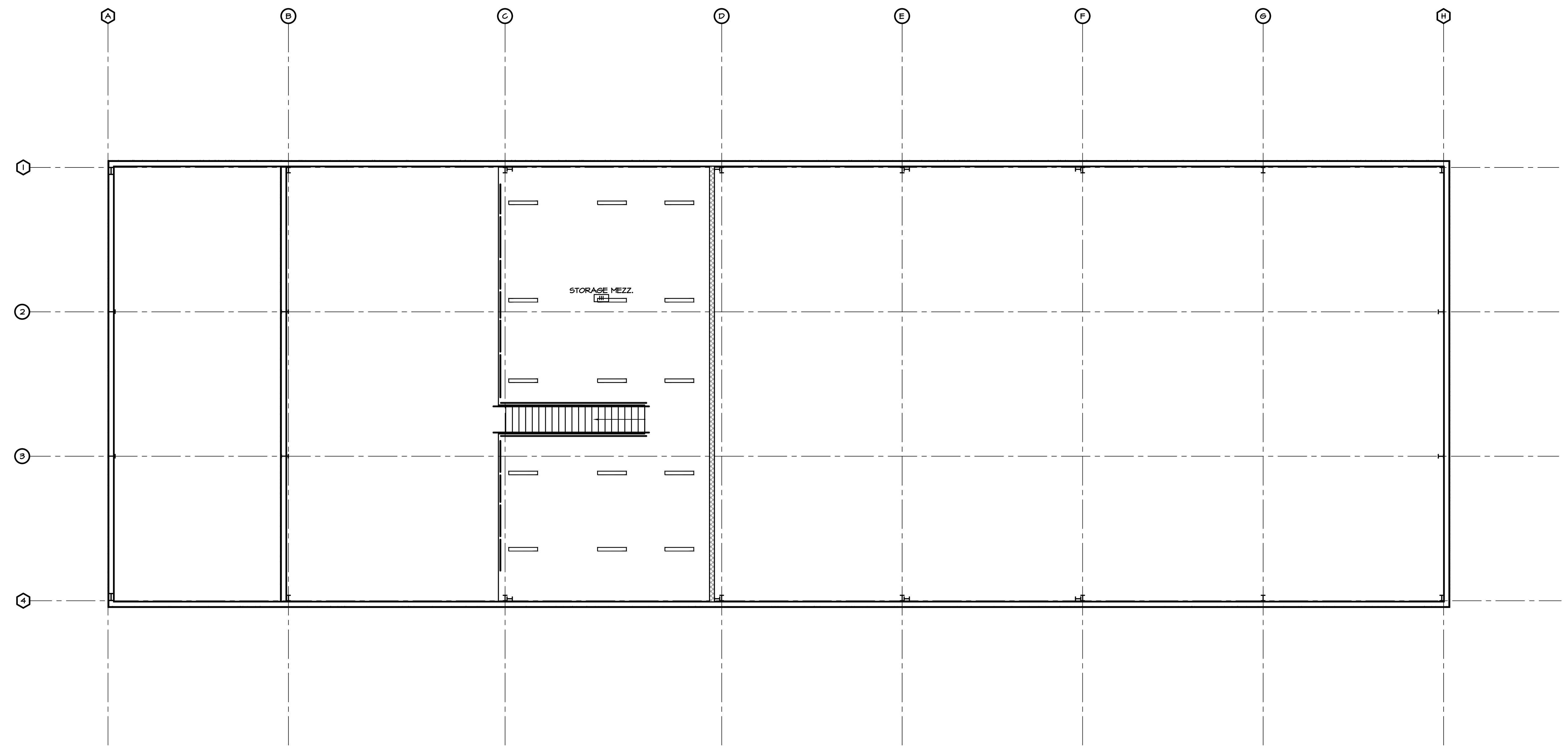
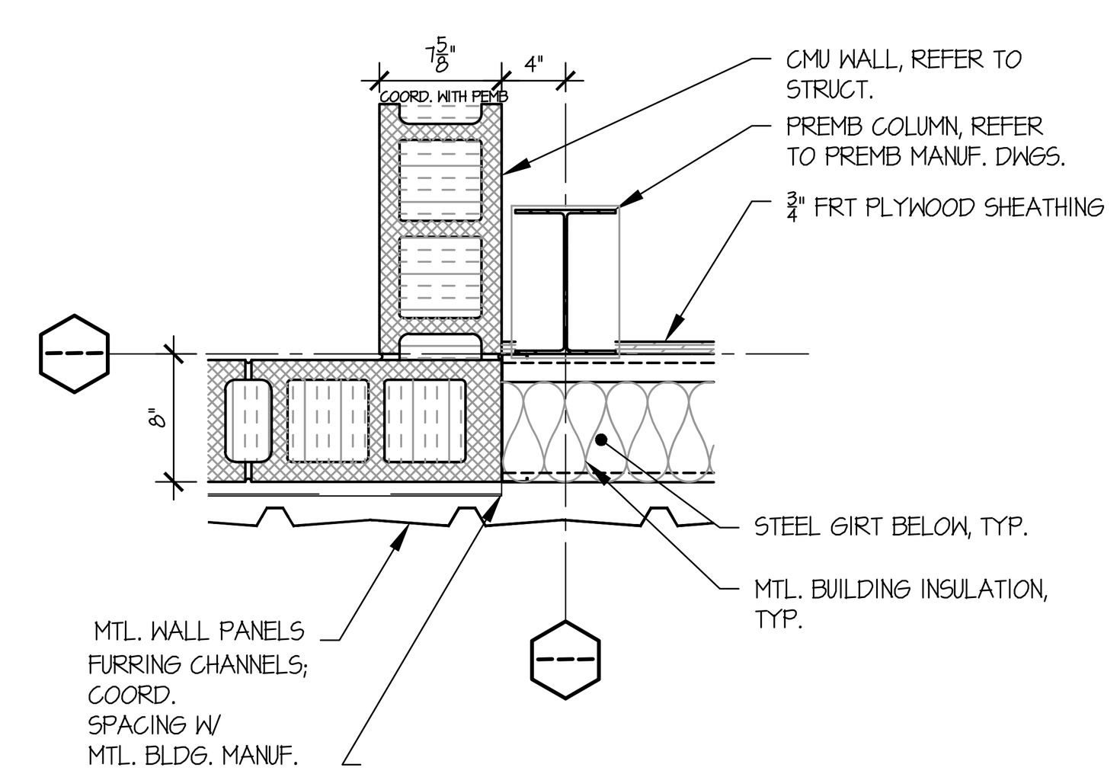


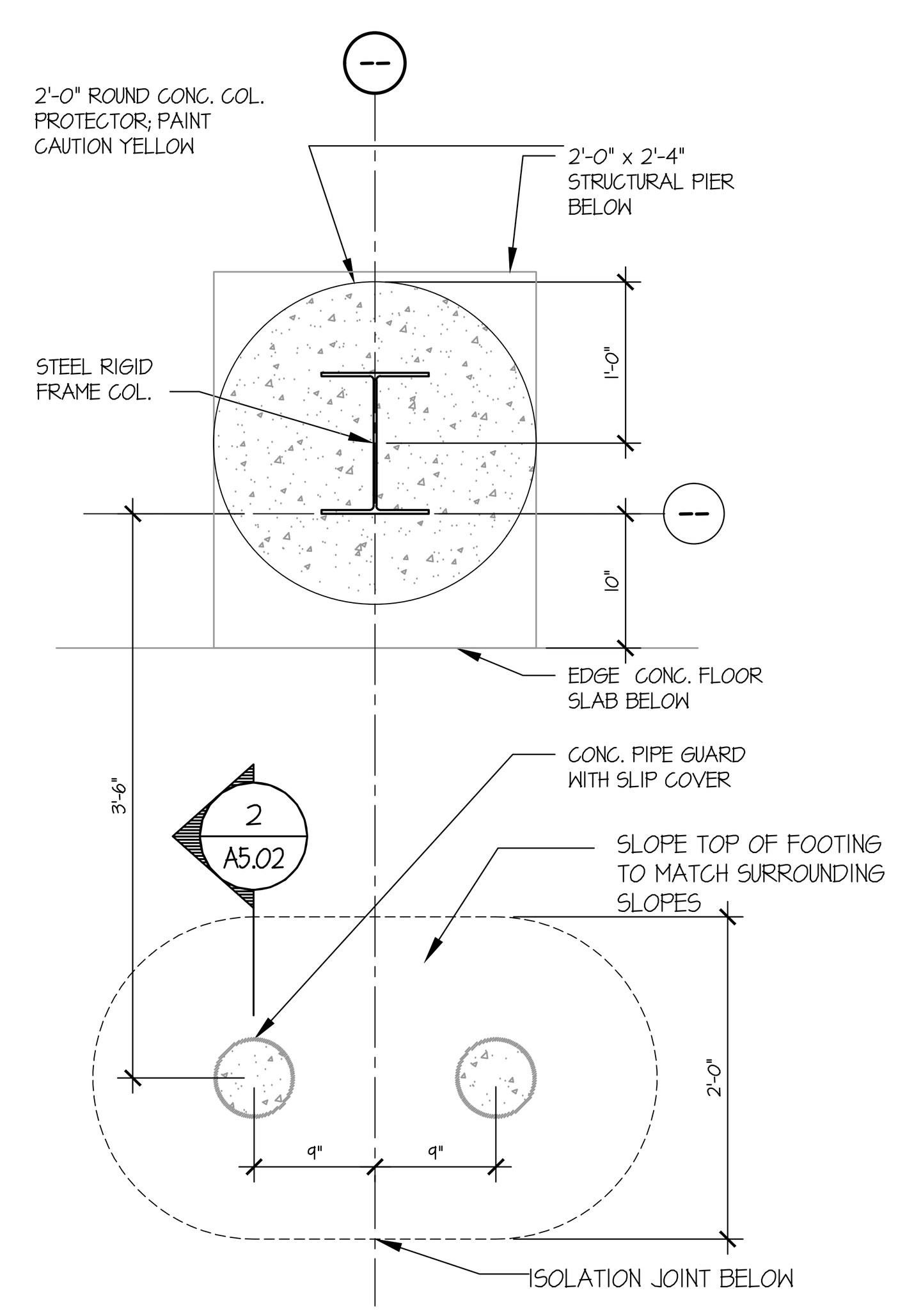
1 RCP: COVERED EQUIPMENT STORAGE PLAN
A3.01 SCALE: 3/32" = 1'-0"



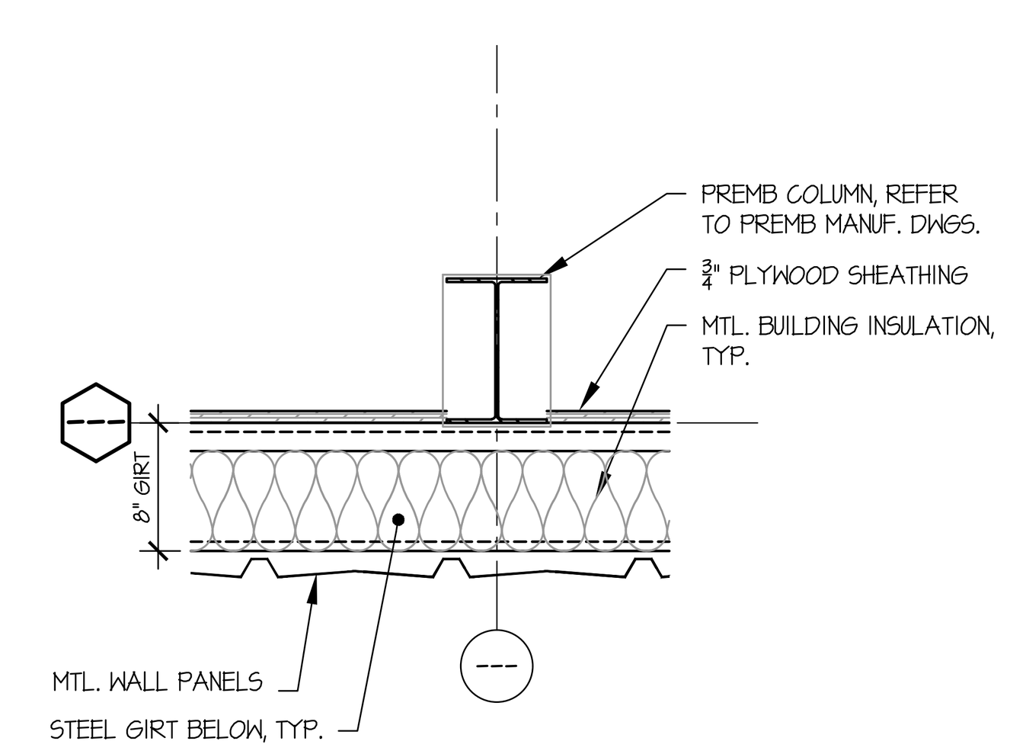
2 RCP: VEHICLE MAINTENANCE AND STORAGE MEZZANINE PLAN
A3.01 SCALE: 3/32" = 1'-0"



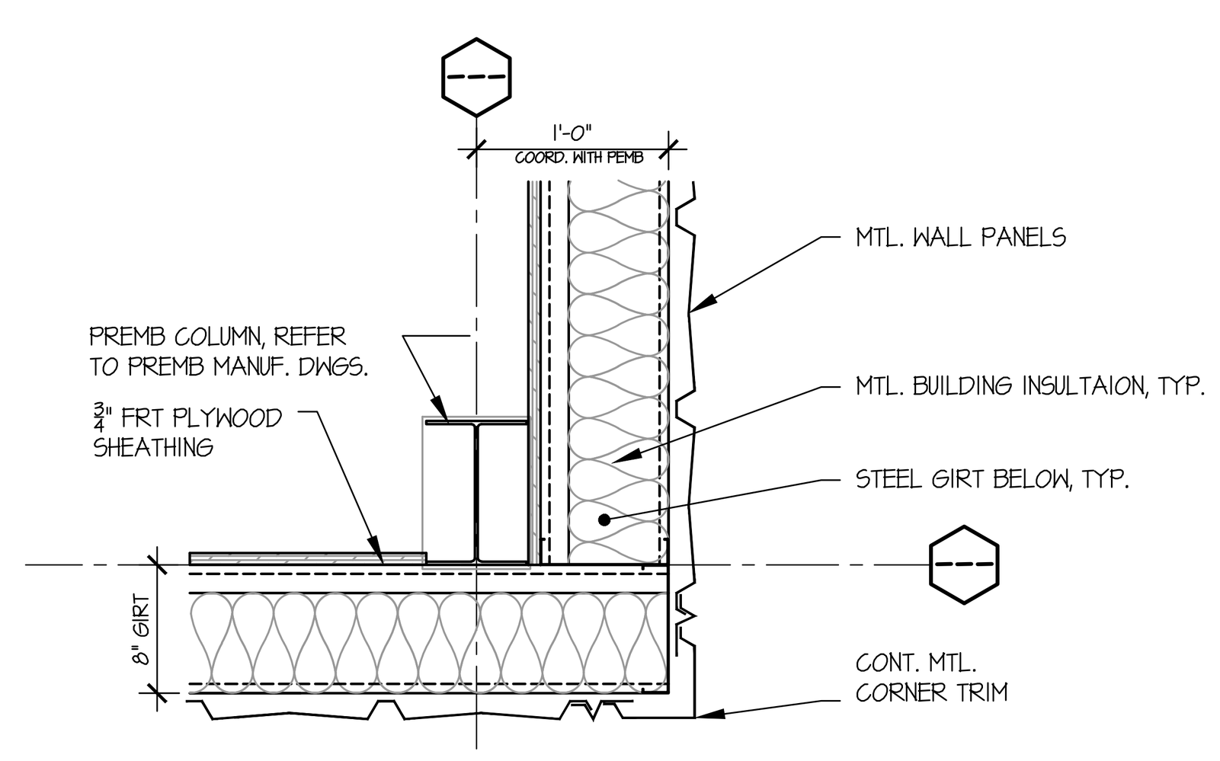
5 COLUMN DETAIL
A3.01 SCALE: 1" = 1'-0"



4 COLUMN DETAIL
A3.01 SCALE: 1" = 1'-0"



6 COLUMN DETAIL
A3.01 SCALE: 1" = 1'-0"



7 COLUMN DETAIL
A3.01 SCALE: 1" = 1'-0"

3 RCP: VEHICLE MAINTENANCE AND STORAGE PLAN
A3.01 SCALE: 3/32" = 1'-0"

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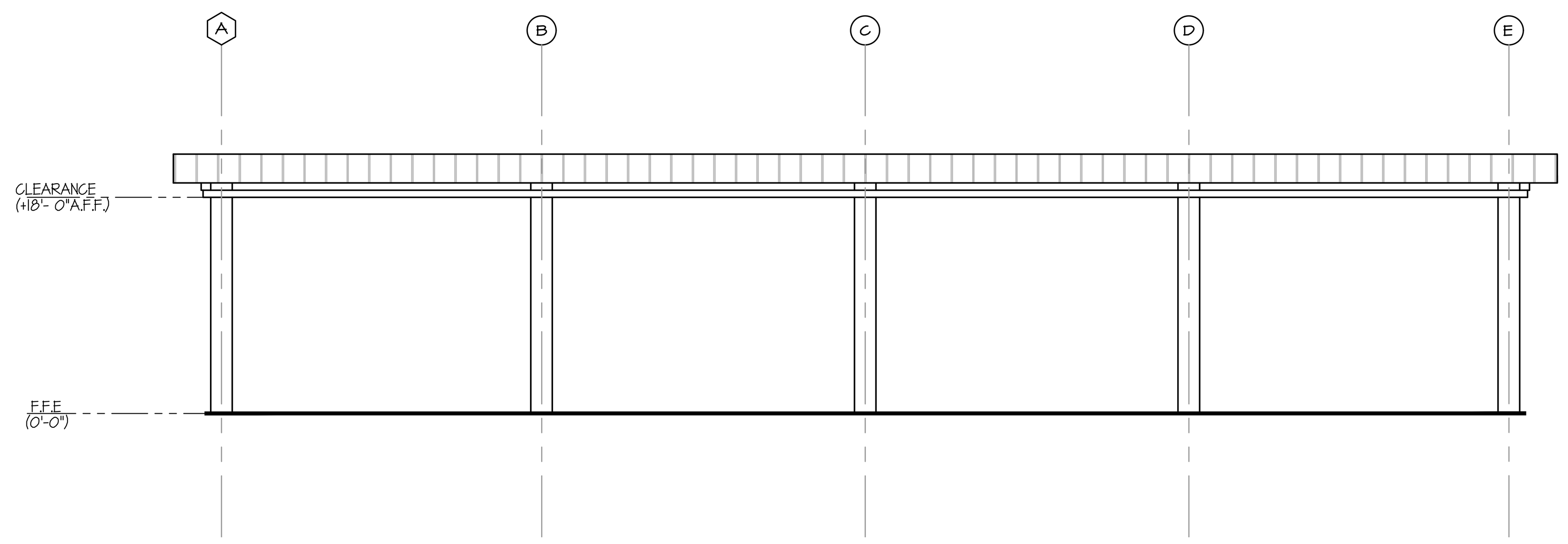
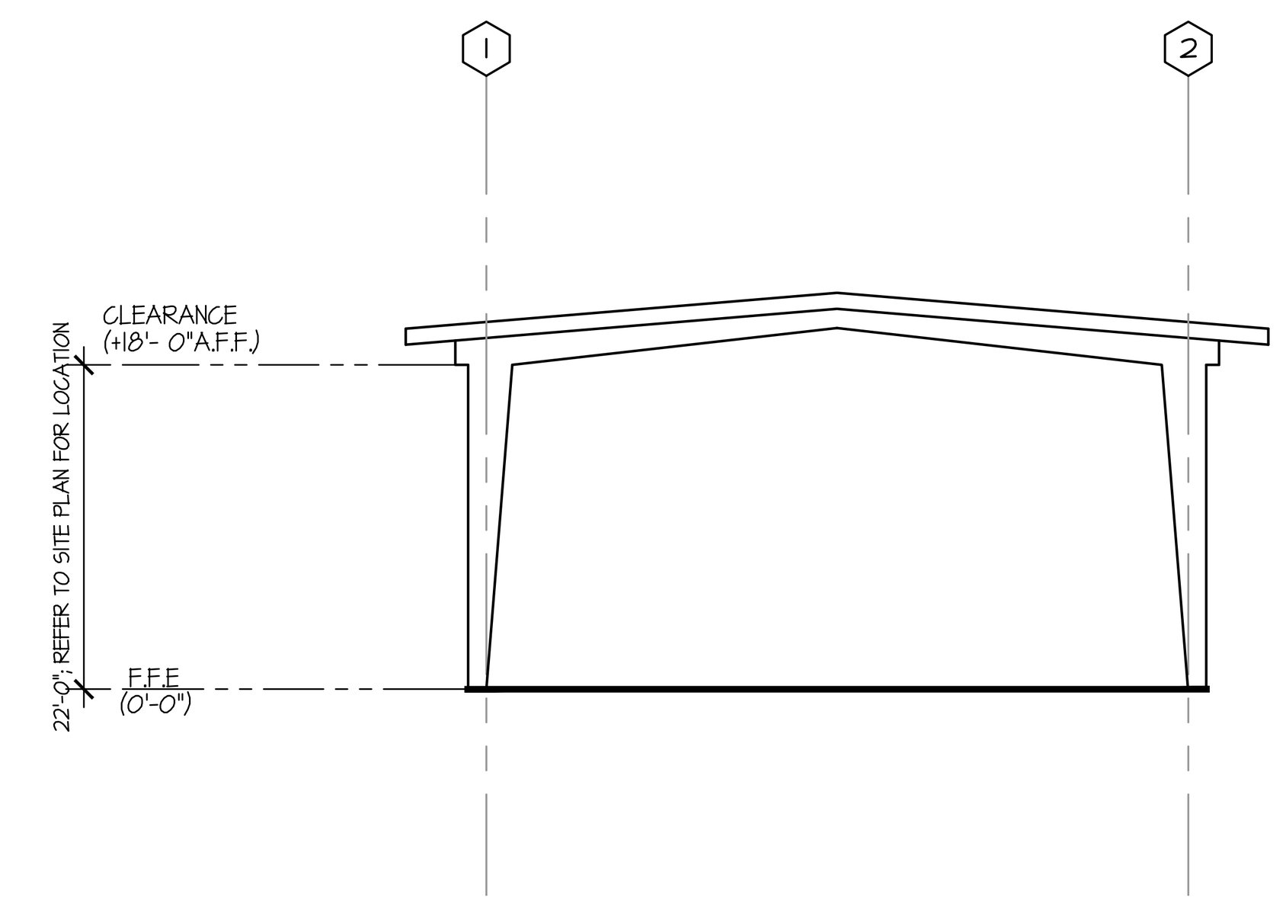
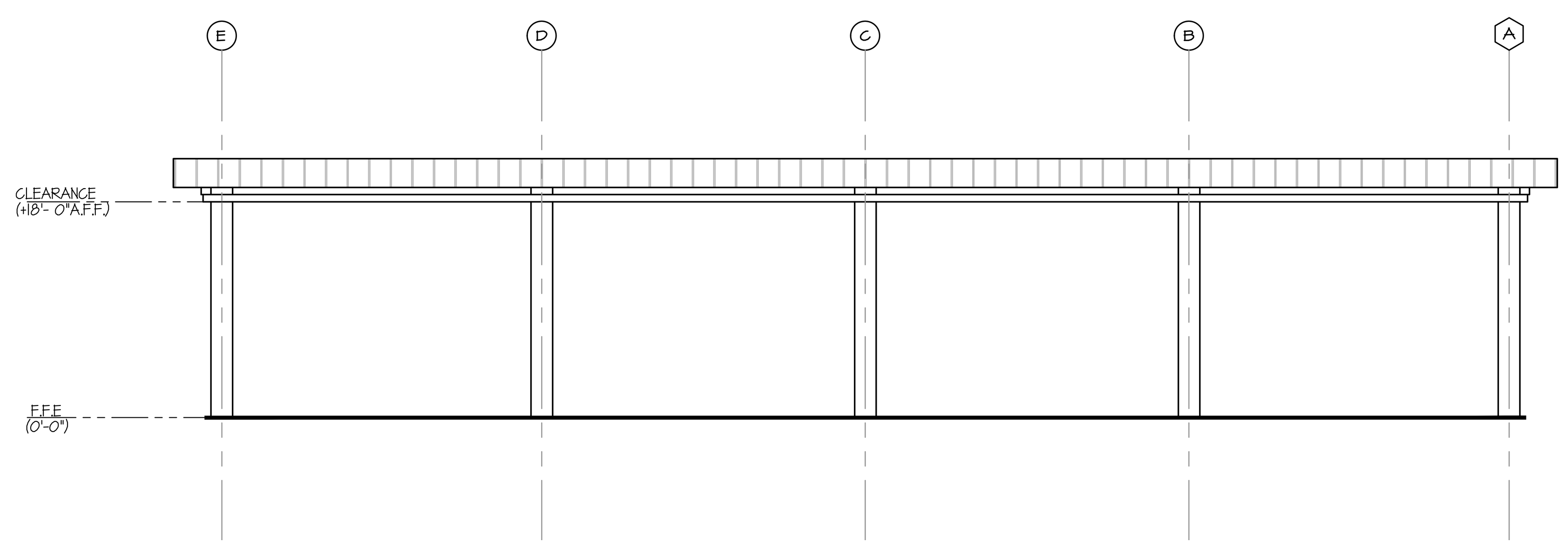


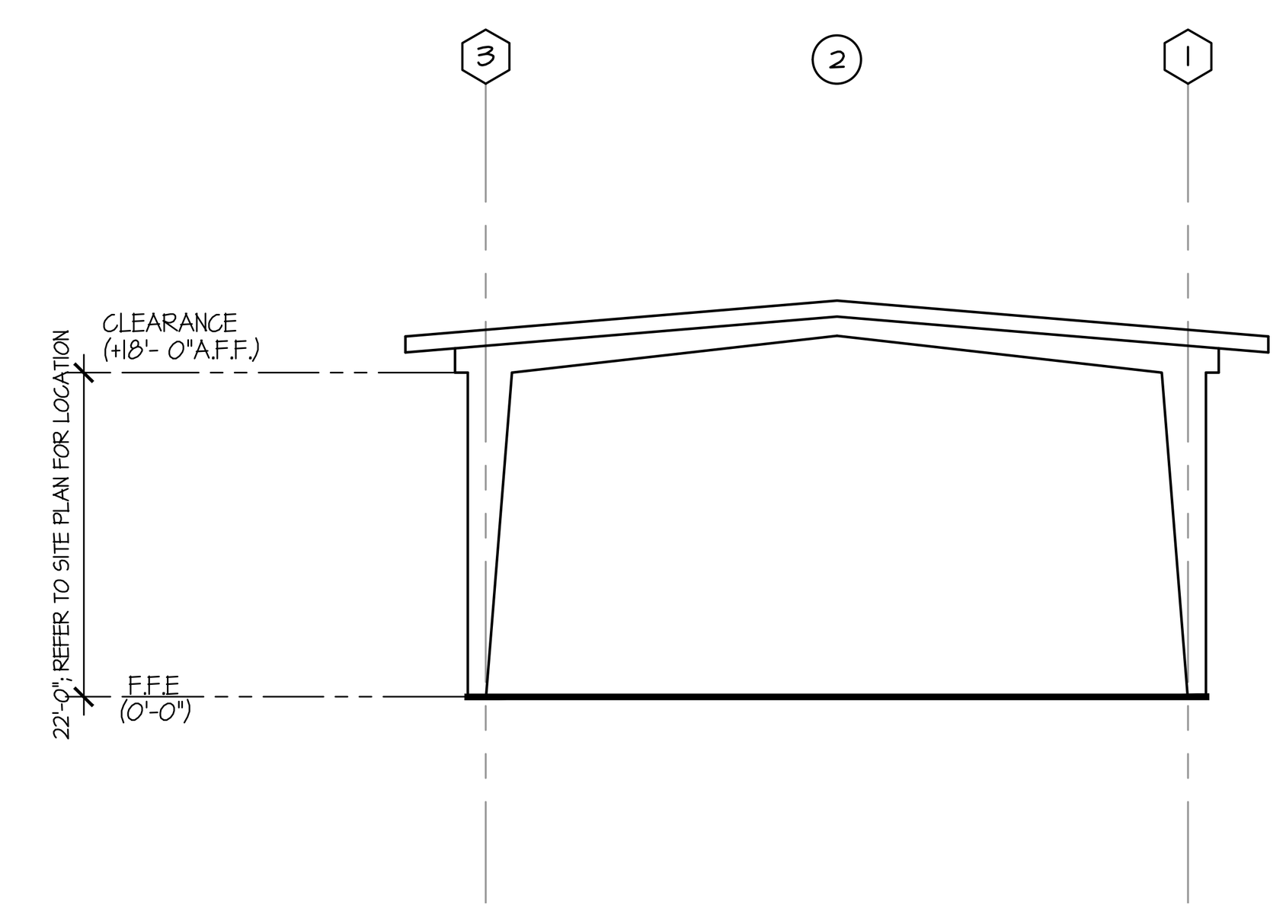
1 COVERED EQUIPMENT STORAGE FRONT ELEVATION
A4.01 SCALE: 3/32" = 1'-0"



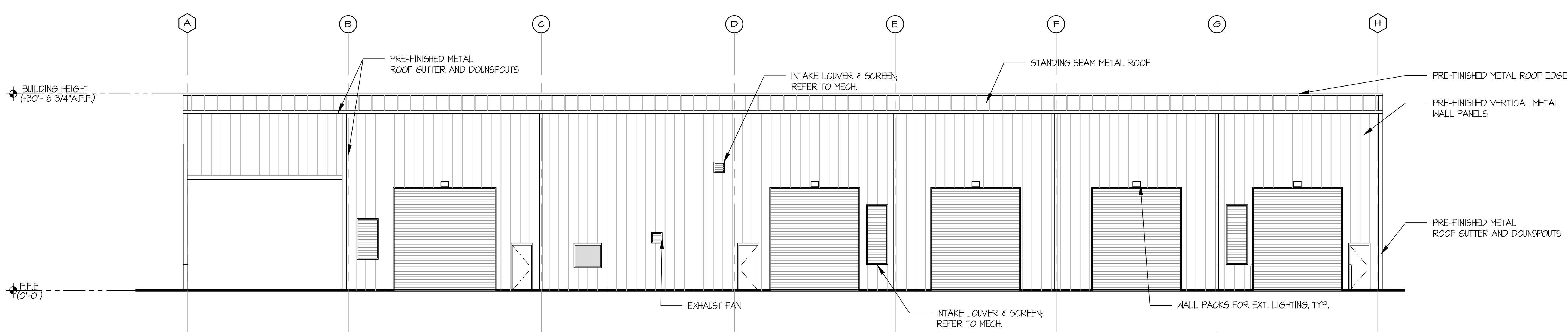
2 COVERED EQUIPMENT STORAGE LEFT ELEVATION
A4.01 SCALE: 3/32" = 1'-0"



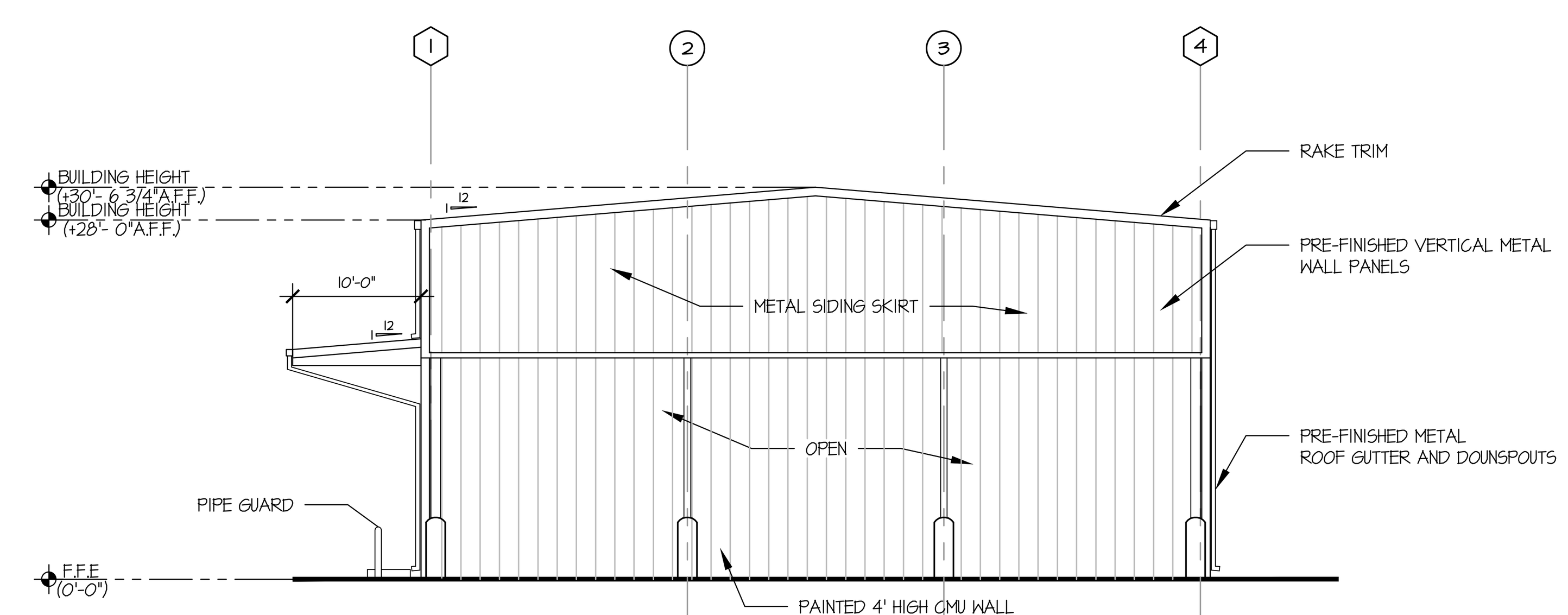
3 COVERED EQUIPMENT STORAGE REAR ELEVATION
A4.01 SCALE: 3/32" = 1'-0"



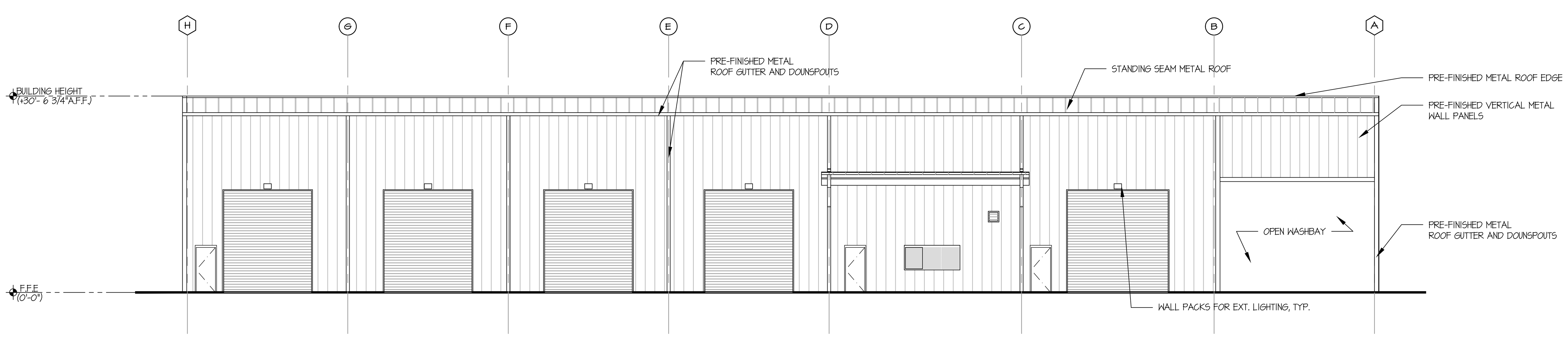
4 COVERED EQUIPMENT STORAGE RIGHT ELEVATION
A4.01 SCALE: 3/32" = 1'-0"



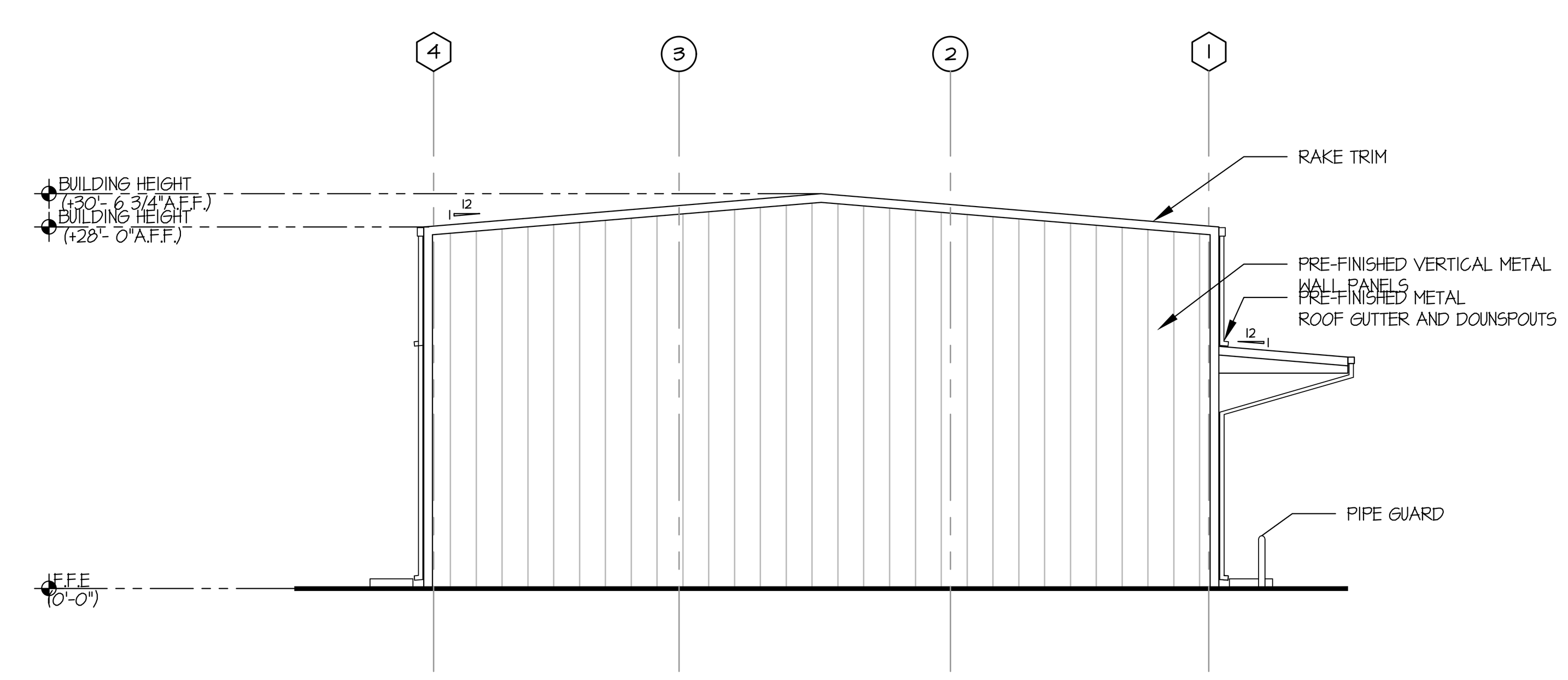
5 VEHICLE MAINTENANCE AND STORAGE FRONT ELEVATION
A4.01 SCALE: 3/32" = 1'-0"



6 VEHICLE MAINTENANCE AND STORAGE LEFT ELEVATION
A4.01 SCALE: 3/32" = 1'-0"



7 VEHICLE MAINTENANCE AND STORAGE REAR ELEVATION
A4.01 SCALE: 3/32" = 1'-0"



8 VEHICLE MAINTENANCE AND STORAGE RIGHT ELEVATION
A4.01 SCALE: 3/32" = 1'-0"

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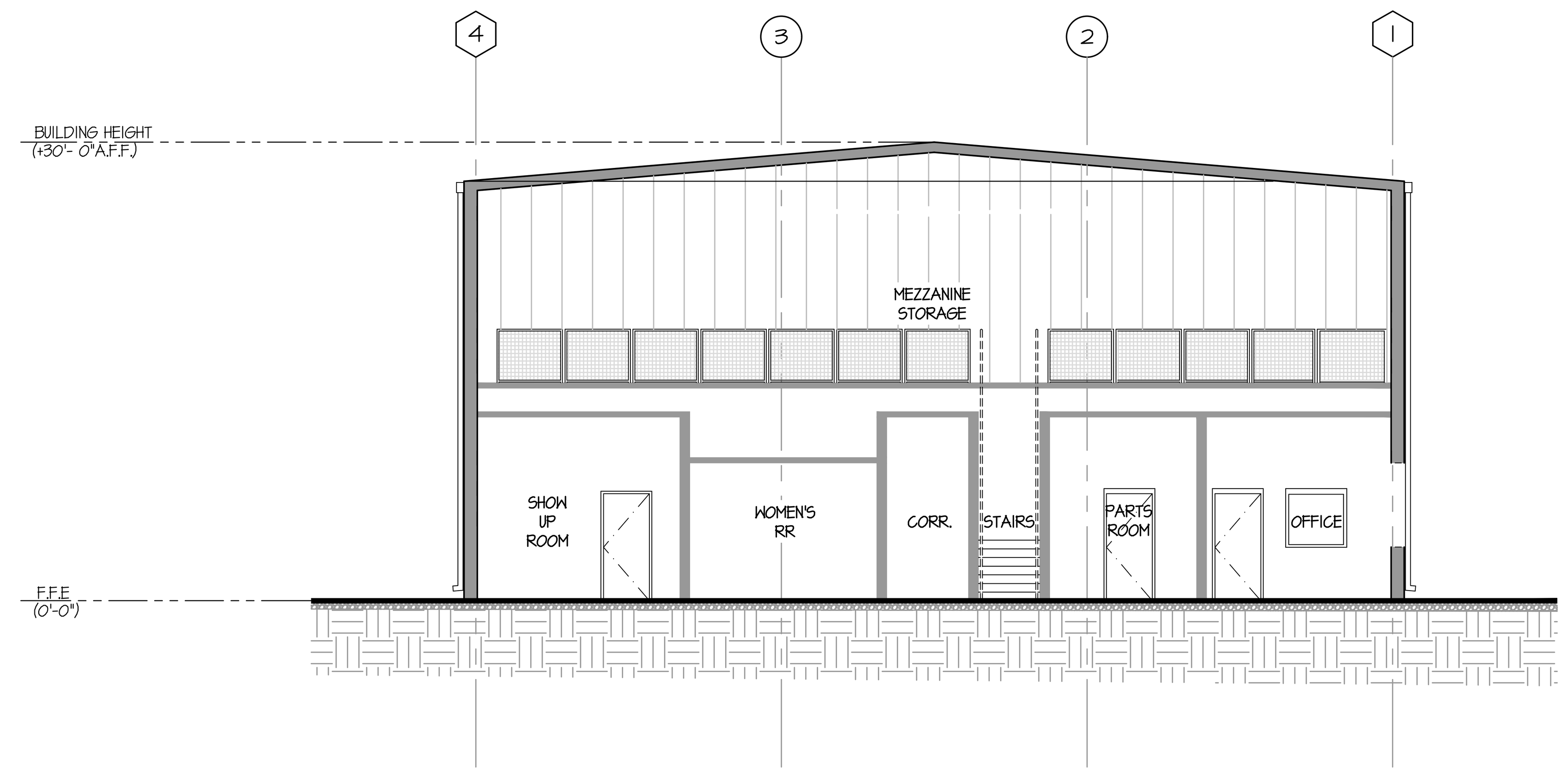
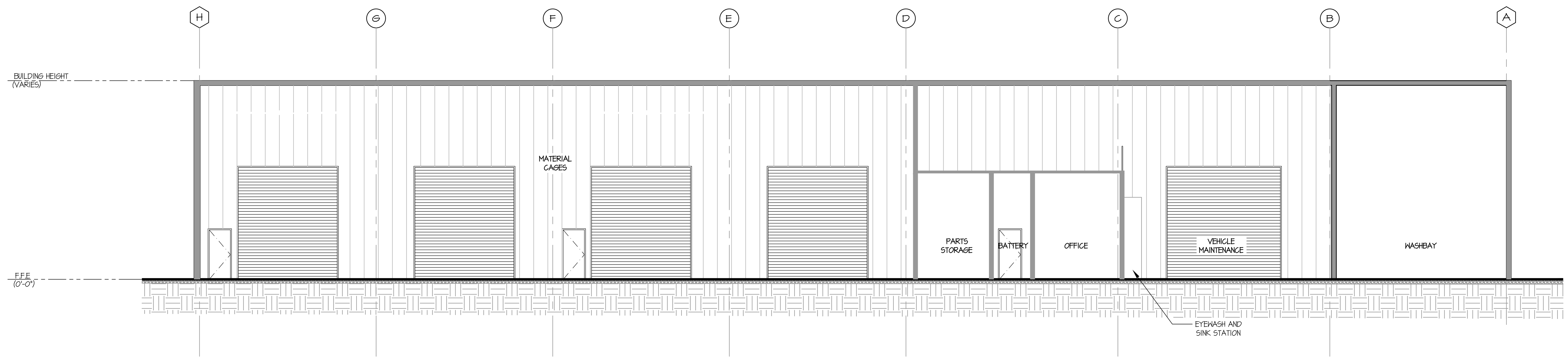


1 A4.02 VEHICLE MAINTENANCE FRONT AND STORAGE BUILDING SECTION
SCALE: 1/8" = 1'-0"



2 A4.02 VEHICLE MAINTENANCE FRONT AND STORAGE BUILDING SECTION
SCALE: 1/8" = 1'-0"

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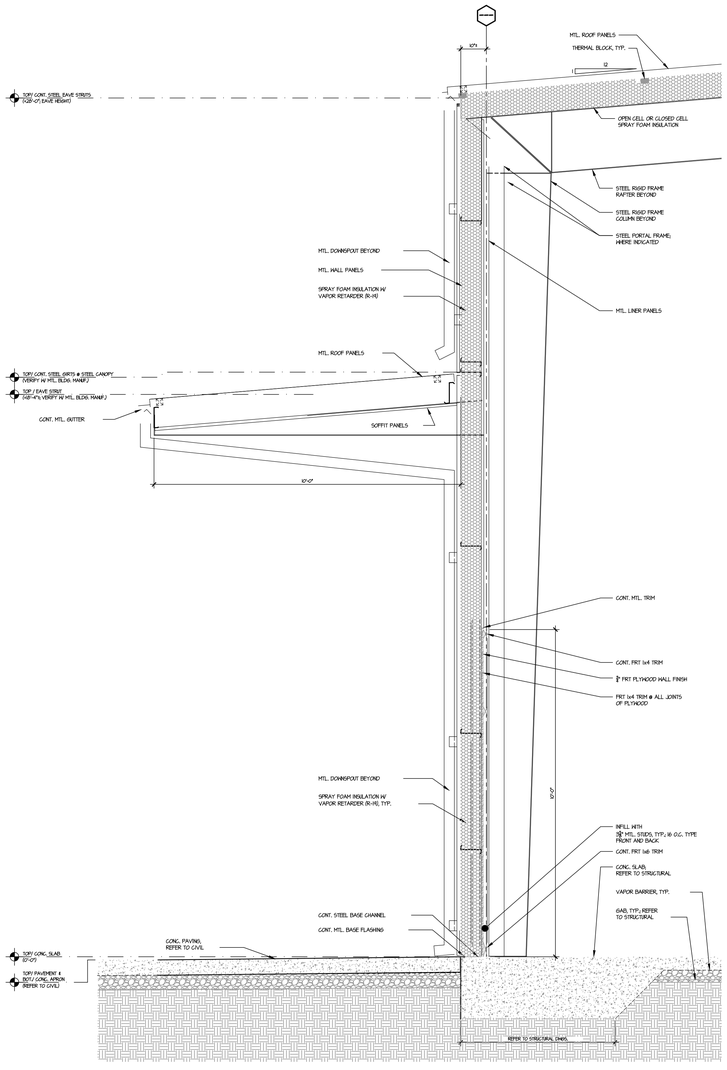
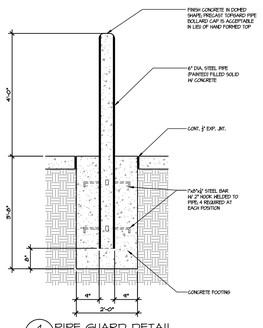
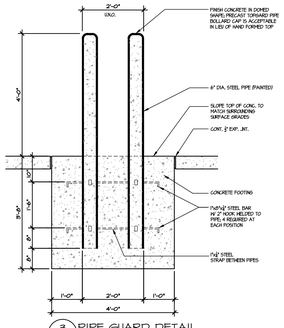




4 PIPE GUARD DETAIL
A5.01 SCALE: 1/2" = 1'-0"



3 PIPE GUARD DETAIL
A5.01 SCALE: 1/2" = 1'-0"

2 VEHICLE MAINTENANCE WALL SECTION
A5.01 SCALE: 1/2" = 1'-0"

1 VEHICLE MAINTENANCE WALL SECTION
A5.01 SCALE: 1/2" = 1'-0"

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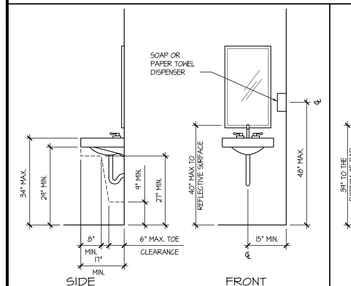
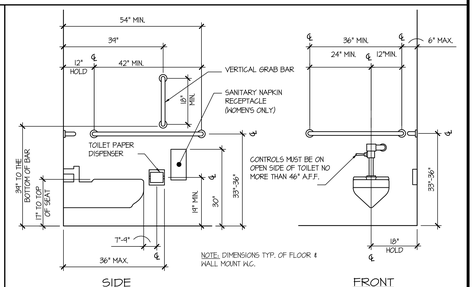
A5.01

TYPICAL A.D.A. RESTROOM GUIDELINES AND DIMENSIONS:



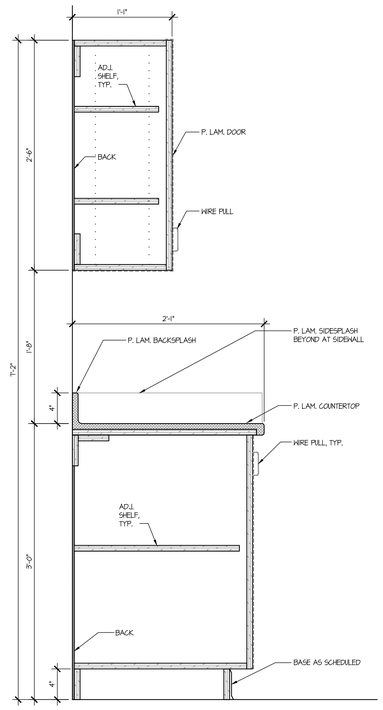
TYPICAL LAVATORY/ VANITY DETAILS



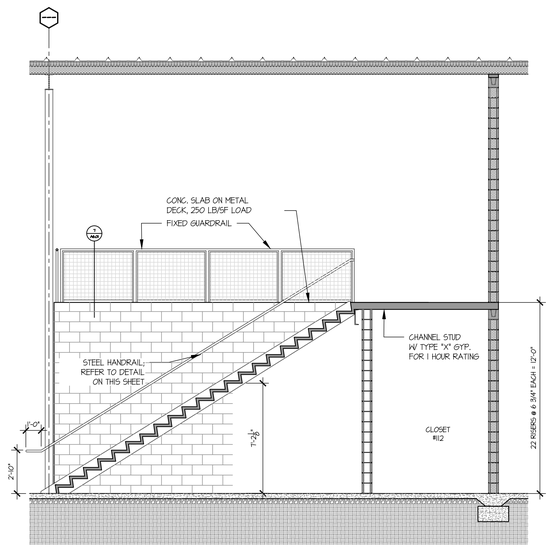
TYPICAL WATER CLOSET DETAILS

MILLWORK NOTES:

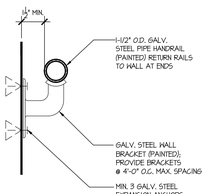
1. VERIFY ALL DIMENSIONS IN FIELD PRIOR TO SUBMITTAL REVIEW & FABRICATION OF MILLWORK.
2. ALL EXPOSED EXTERIOR SURFACES SHALL RECEIVE HIGH PRESSURE PLASTIC LAMINATE FINISH & ALL INTERIOR SURFACES OF CABINETS AND DRAWERS SHALL RECEIVE LOW PRESSURE PLASTIC LAMINATE FINISH (MELAMINE) AS SPECIFIED, UNLESS INDICATED OTHERWISE.
3. ALL WALL CABINETS SHALL HAVE GYPSUM BOARD SOFFITS ABOVE, UNLESS INDICATED OTHERWISE.
4. MILLWORK HARDWARE SHALL BE AS FOLLOWS, OR AN APPROVED EQUAL:
   a. HINGES: GRASS CONCEALED SELF-CLOSING, 110°
   b. DRAWER SLIDES: ACCURIDE; MODEL 7400 SLIDE SERIES (MEDIUM-DUTY)
   c. PULLS: STANLEY; MODEL 4424 (ALUM. 4" WIRE PULLS)
5. REMAINDER OF MILLWORK HARDWARE SHALL BE MANUFACTURER'S STANDARD HEAVY-DUTY HARDWARE.



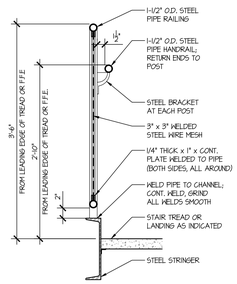
11 MILLWORK SECTION
A6.01 SCALE: 1 1/2" = 1'-0"



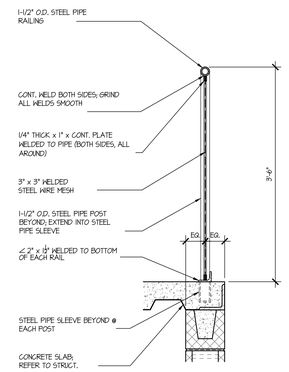
10 STAIR SECTION
A6.01 SCALE: 1/4" = 1'-0"



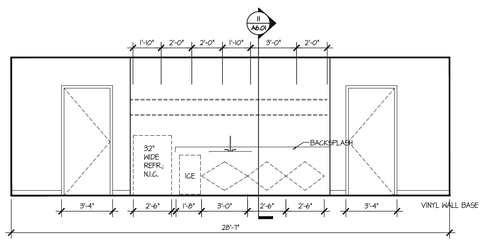
9 STAIR HANDRAIL DETAIL
A6.01 SCALE: 3" = 1'-0"

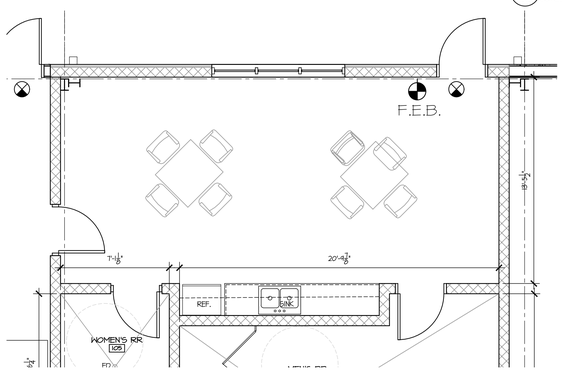


8 STAIR GUARDRAIL/HANDRAIL DETAIL
A6.01 SCALE: 1" = 1'-0"

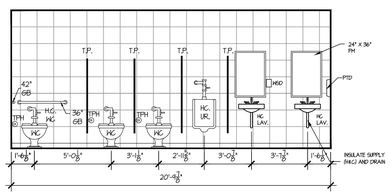


7 FIXED GUARDRAIL DETAIL
A6.01 SCALE: 1" = 1'-0"

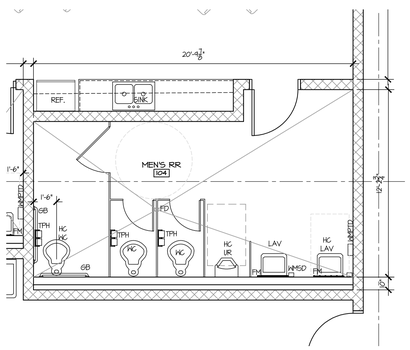




5 ENLARGED FLOOR PLAN @ SHOW UP ROOM
A6.01 SCALE: 1/4" = 1'-0"

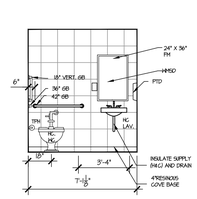


4 MEN'S RR ELEVATION
A6.01 SCALE: 1/4" = 1'-0"

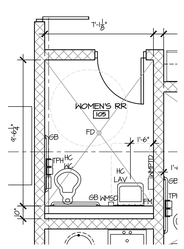


3 ENLARGED FLOR PLAN @ MEN'S RR
A6.01 SCALE: 1/4" = 1'-0"

6 SHOW UP ROOM ELEVATION
A6.01 SCALE: 1/4" = 1'-0"



2 WOMEN'S RR ELEVATION
A6.01 SCALE: 1/4" = 1'-0"



1 ENLARGED FLOOR PLAN @ WOMEN'S RR
A6.01 SCALE: 1/4" = 1'-0"

PROJECT NUMBER
2512
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03/12/26
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NES,MJM
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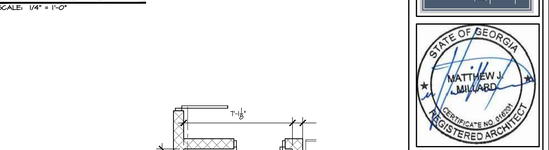
CITY OF SOCIAL CIRCLE
PUBLIC WORKS DEPARTMENT
New Fleet Facility
New Vine Circle, Social Circle, GA 30025

TURNIPSEED ENGINEERS
ATLANTA
AUGUSTA
ST. SIMONS ISLAND

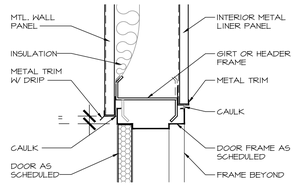
Millard, Inc.
Architects & Engineers
580 Colonial Park Drive
Roswell, Georgia 30075
770-993-2034

Millard, Inc. ARCHITECTS ENGINEERS

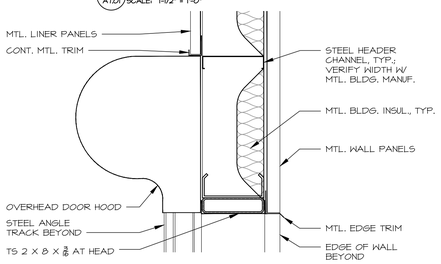


SHEET NUMBER

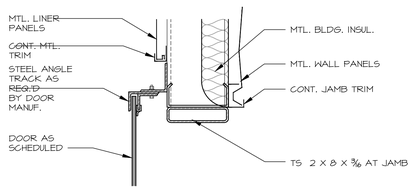
A6.01



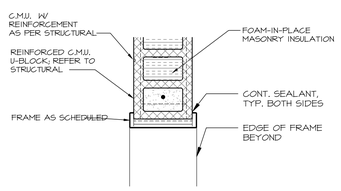
13 DOOR HEAD DETAIL
A1.01 SCALE: 1-1/2" = 1'-0"



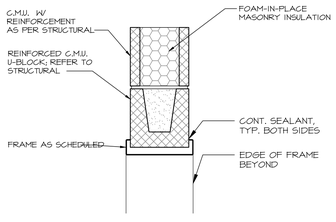
14 DOOR HEAD DETAIL
A1.01 SCALE: 1-1/2" = 1'-0"



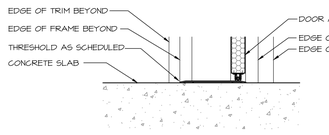
15 DOOR JAMB DETAIL
A1.01 SCALE: 1-1/2" = 1'-0"



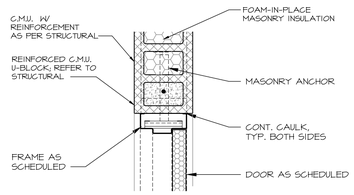
16 DOOR JAMB DETAIL
A1.01 SCALE: 1-1/2" = 1'-0"



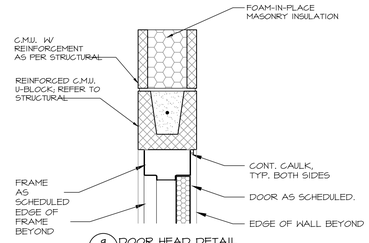
17 DOOR HEAD DETAIL
A1.01 SCALE: 1-1/2" = 1'-0"



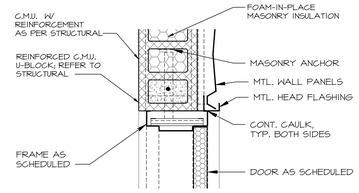
7 DOOR SILL DETAIL
A1.01 SCALE: 1-1/2" = 1'-0"



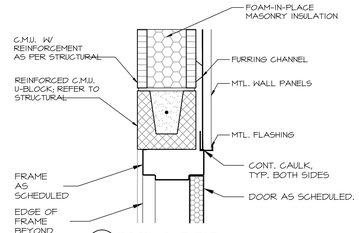
8 DOOR JAMB DETAIL
A1.01 SCALE: 1-1/2" = 1'-0"



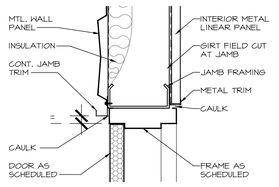
9 DOOR HEAD DETAIL
A1.01 SCALE: 1-1/2" = 1'-0"



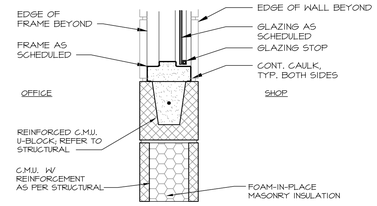
10 DOOR JAMB DETAIL
A1.01 SCALE: 1-1/2" = 1'-0"



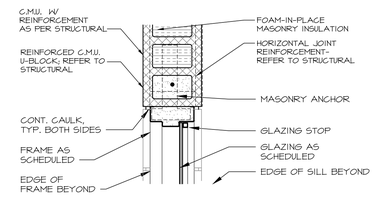
11 DOOR HEAD DETAIL
A1.01 SCALE: 1-1/2" = 1'-0"



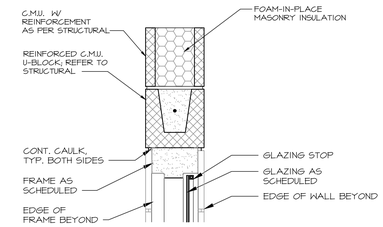
12 DOOR JAMB DETAIL
A1.01 SCALE: 1-1/2" = 1'-0"



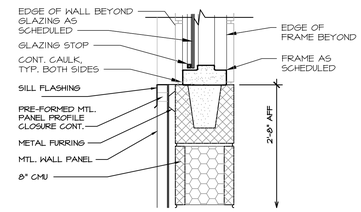
1 FRAME SILL DETAIL
A1.01 SCALE: 1-1/2" = 1'-0"



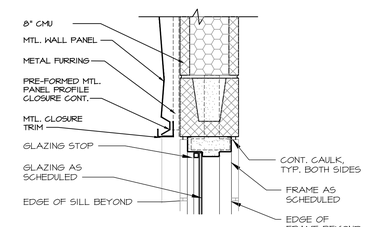
2 FRAME JAMB DETAIL
A1.01 SCALE: 1-1/2" = 1'-0"



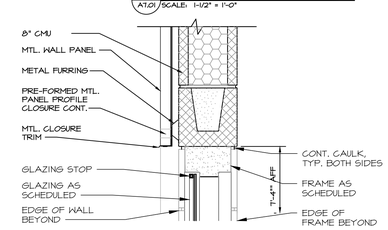
3 FRAME HEAD DETAIL
A1.01 SCALE: 1-1/2" = 1'-0"



4 FRAME SILL DETAIL
A1.01 SCALE: 1-1/2" = 1'-0"



5 FRAME JAMB DETAIL
A1.01 SCALE: 1-1/2" = 1'-0"



6 FRAME HEAD DETAIL
A1.01 SCALE: 1-1/2" = 1'-0"

DOOR & FRAME SCHEDULE

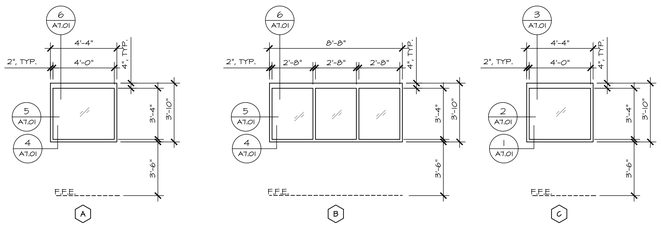
DOOR NUMBER	DOOR SIZE	MATERIAL	TYPE	FINISH	FRAME MATERIAL	SIZE	TYPE	FINISH	ASSEMBLY RATING	HARDWARE FUNCTION	CLOSER	SIGNAGE	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	REMARKS
102A	3'-0" x 7'-0" x 1-3/4"	H.M.	1	PAINT	H.M.	8"	A	PAINT	---	---	---	---	13/A7.01	12/A7.01	7/A7.01	
102B	3'-0" x 7'-0" x 1-3/4"	H.M.	1	PAINT	H.M.	8"	A	PAINT	---	---	---	---	13/A7.01	12/A7.01	7/A7.01	
102C	16'-0" x 16'-0"	STEEL	2	FACTORY	STEEL	8"	B	PAINT	---	---	---	---	14/A7.01	15/A7.01	---	
102D	16'-0" x 16'-0"	STEEL	2	FACTORY	STEEL	8"	B	PAINT	---	---	---	---	14/A7.01	15/A7.01	---	
103A	3'-0" x 7'-0" x 1-3/4"	H.M.	1	PAINT	H.M.	8"	A	PAINT	---	---	---	---	9/A7.01	8/A7.01	7/A7.01	
103B	3'-0" x 7'-0" x 1-3/4"	H.M.	1	PAINT	H.M.	8"	A	PAINT	---	---	---	---	10/A7.01	11/A7.01	7/A7.01	
104	3'-0" x 7'-0" x 1-3/4"	H.M.	1	PAINT	H.M.	8"	A	PAINT	---	---	---	---	9/A7.01	8/A7.01	7/A7.01	
105	3'-0" x 7'-0" x 1-3/4"	H.M.	1	PAINT	H.M.	8"	A	PAINT	---	---	---	---	9/A7.01	8/A7.01	7/A7.01	
106	3'-0" x 7'-0" x 1-3/4"	H.M.	A	PAINT	H.M.	8"	A	PAINT	---	---	---	---	9/A7.01	8/A7.01	7/A7.01	
107	3'-0" x 7'-0" x 1-3/4"	H.M.	1	PAINT	H.M.	8"	A	PAINT	---	---	---	---	9/A7.01	8/A7.01	7/A7.01	
108	3'-0" x 7'-0" x 1-3/4"	H.M.	1	PAINT	H.M.	8"	A	PAINT	---	---	---	---	9/A7.01	8/A7.01	7/A7.01	
109	3'-0" x 7'-0" x 1-3/4"	H.M.	1	PAINT	H.M.	8"	A	PAINT	---	---	---	---	9/A7.01	8/A7.01	7/A7.01	
110A	14'-0" x 16'-0"	STEEL	2	FACTORY	STEEL	8"	B	PAINT	---	---	---	---	14/A7.01	15/A7.01	---	
110B	14'-0" x 16'-0"	STEEL	2	FACTORY	STEEL	8"	B	PAINT	---	---	---	---	14/A7.01	15/A7.01	---	
110C	14'-0" x 16'-0"	STEEL	2	FACTORY	STEEL	8"	B	PAINT	---	---	---	---	14/A7.01	15/A7.01	---	
110D	14'-0" x 16'-0"	STEEL	2	FACTORY	STEEL	8"	B	PAINT	---	---	---	---	14/A7.01	15/A7.01	---	
110E	3'-0" x 7'-0" x 1-3/4"	H.M.	1	PAINT	H.M.	8"	A	PAINT	---	---	---	---	13/A7.01	12/A7.01	7/A7.01	
110F	3'-0" x 7'-0" x 1-3/4"	H.M.	1	PAINT	H.M.	8"	A	PAINT	---	---	---	---	13/A7.01	12/A7.01	7/A7.01	
110G	14'-0" x 16'-0"	STEEL	2	FACTORY	STEEL	8"	B	PAINT	---	---	---	---	14/A7.01	15/A7.01	---	
110H	14'-0" x 16'-0"	STEEL	2	FACTORY	STEEL	8"	B	PAINT	---	---	---	---	14/A7.01	15/A7.01	---	
110J	14'-0" x 16'-0"	STEEL	2	FACTORY	STEEL	8"	B	PAINT	---	---	---	---	14/A7.01	15/A7.01	---	
110J	14'-0" x 16'-0"	STEEL	2	FACTORY	STEEL	8"	B	PAINT	---	---	---	---	14/A7.01	15/A7.01	---	
110K	14'-0" x 16'-0"	STEEL	2	FACTORY	STEEL	8"	B	PAINT	---	---	---	---	14/A7.01	15/A7.01	---	
110L	3'-0" x 7'-0" x 1-3/4"	H.M.	1	PAINT	H.M.	8"	A	PAINT	---	---	---	---	13/A7.01	12/A7.01	7/A7.01	
112	3'-0" x 7'-0" x 1-3/4"	H.M.	1	PAINT	H.M.	8"	A	PAINT	---	---	---	---	9/A7.01	8/A7.01	7/A7.01	

DOOR & FRAME SCHEDULE NOTES:

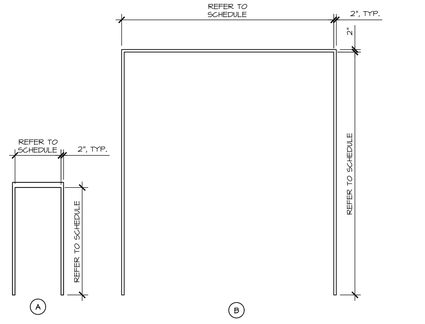
1. CONTRACTOR SHALL FIELD VERIFY NEW FRAME DEPTHS & SIZES W/ WALL THICKNESS & MASONRY OPENINGS PRIOR TO ORDERING NEW DOORS, HARDWARE AND FRAMES.
2. ALL OPERABLE DOOR HANDLES SHALL BE "LEVER" TYPE AND SHALL BE FULLY "A.D.A." COMPLIANT, UNLESS INDICATED OTHERWISE.
3. EDGE OF DOOR FRAME (HINGE SIDE) SHALL BE 4" MIN. FROM CORNER IN METAL-STUD PARTITIONS & 8" MIN. FROM CORNER IN CMU PARTITIONS, UNLESS INDICATED OTHERWISE.
4. ALL GLAZING STOPS (WHERE APPLICABLE) SHALL BE ON "SECURE" SIDE OF DOOR/ FRAME, UNLESS DIRECTED OTHERWISE BY OWNER/ MANUFACTURER.
5. NEW ACCESS CONTROL SYSTEM SHALL BE PROVIDED BY OWNER. REFER TO ELECTRICAL FOR NEW WORK PROVIDED BY CONTRACTOR.
6. SCHEDULE ABBREVIATIONS:
   A.C. - ACCESS CONTROL
   H.M. - HOLLOW METAL
   S.C. - SOLID CORE
7. FIRE RATED FUSEABLE LINK FOR AUTO CLOSE ON FIRE SHUTTER & COILING DOORS.
8. COORDINATE MAGLOCK & SECURITY FOR ALL EXIST DOORS.

GLAZING KEYNOTES (WHERE INDICATED):

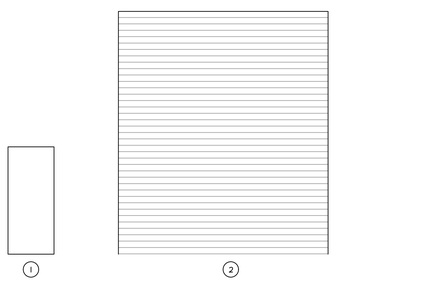
A - 1" INSULATED TEMPERED GLAZING
B - 1" INSULATED CLEAR TEMPERED GLAZING
C - ¼" CLEAR TEMPERED GLAZING
D - FIRE- RATED GLAZING
E- LEVEL 2 BULLET- RESISTANT GLAZING
F- ¼" CLEAR WIRE GLAZING



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



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



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

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PUBLIC WORKS DEPARTMENT
New Fleet Facility
New Vine Circle, Social Circle, GA 30025

TURNIPSEED ENGINEERS
ATLANTA
AUGUSTA
ST. SIMONS ISLAND

Millard, Inc.
Architects & Engineers
580 Colonial Park Drive
Roswell, Georgia 30075
7709932034

Millard, Inc. ARCHITECTS ENGINEERS

STATE OF GEORGIA
MATTHEW J. MILLARD
CERTIFICATE NO. 041301
REGISTERED ARCHITECT

SHEET NUMBER
A7.01

GENERAL NOTES - STRUCTURAL:

CODE: 2018 INTERNATIONAL BUILDING CODE (IBC 2018) WITH GEORGIA AMENDMENTS

DESIGN LOADS

SLAB ON GRADE: LIVE LOAD = 100 PSF

MEZZANINE:
LIVE LOAD = 250 PSF
DEAD LOAD = 60 PSF

STAIRS:
DEAD LOAD = 50 PSF
LIVE LOAD = 100 PSF
PT LOAD OF 300 LB OVER 4 IN^2

ROOF:
LIVE LOAD = 20 PSF
DEAD LOAD = ACTUAL DEAD LOAD OF STRUCTURE +5 PSF MISC.

SNOW:
GROUND SNOW LOAD (Pg) = 5 PSF
EXPOSURE FACTOR = 1.0
THERMAL FACTOR = 1.2
IMPORTANCE FACTOR = 1.10
FLAT ROOF SNOW LOAD = NA
MINIMUM ROOF SNOW LOAD = 5.5

WIND:
ULTIMATE WIND SPEED = 114 MPH
NOMINAL WIND SPEED = 90 MPH
RISK CATEGORY III
EXPOSURE C
IMPORTANCE FACTOR: 1.0
BUILDING CLASSIFICATION :
  VEHICLE MAINT BUILDING: PARTIALLY ENCLOSED
  TRUCK SHEDS: OPEN
INTERNAL PRESSURE COEFFICIENT:
  VEHICLE MAINT BUILDING: GC_{PI} = ±0.55
  TRUCK SHEDS: GC_{PI} = 0.00

SEISMIC:
RISK CATEGORY III
SEISMIC IMPORTANCE FACTOR = 1.25
SOIL SITE CLASS D
SHORT PERIOD RESPONSE COEFF S_{DS} = 0.199
1-SEC PERIOD RESPONSE COEFF S_{D1} = 0.132
  SEISMIC DESIGN CATEGORY B

ANALYSIS PROCEDURE: BY METAL BUILDING ENGINEER
SEISMIC FORCE RESISTING SYSTEM: BY METAL BUILDING ENGINEER
  RESPONSE MODIFICATION FACTOR (R)= BY METAL BUILDING ENGINEER
  DEFLECTION AMPLIFICATION FACTOR (Cd)= BY METAL BUILDING ENGINEER.
SEISMIC RESPONSE COEFFICIENT (Cs) = BY METAL BUILDING ENGINEER
BASE SHEAR = BY METAL BUILDING ENGINEER

GENERAL NOTES

1. THE STRUCTURAL DESIGN AND CONSTRUCTION IS BASED ON AND SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE WITH GEORGIA STATE AMENDMENTS.
2. THE CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS AND DIMENSIONS ON ARCHITECTURAL AND STRUCTURAL DRAWINGS. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN SITE CONDITIONS, ARCHITECTURAL DRAWINGS, AND STRUCTURAL DRAWINGS PRIOR TO BEGINNING WORK.
3. THE CONTRACTOR SHALL LOCATE ANY AND ALL EXISTING UTILITY LINES AND SHALL COORDINATE WITH ARCHITECTURAL AND STRUCTURAL DETAILS. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND OWNER IMMEDIATELY OF ANY CONFLICTS WITH EXISTING UTILITY LINES.
4. THE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE, UNLESS OTHERWISE INDICATED. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR ALL MEANS AND METHODS OF CONSTRUCTION AND SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, OR OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: BRACING, SHORING FOR THE STRUCTURE AND FOR CONSTRUCTION EQUIPMENT, FORMS, SCAFFOLDING, PLANKING, SAFETY NETS, SUPPORT, AND BRACING FOR CRANES, ETC.
5. WHERE A DETAIL IS SHOWN FOR ONE CONDITION, THAT DETAIL SHALL APPLY FOR ALL SIMILAR CONDITIONS UNLESS NOTED OTHERWISE.
6. ALL DIMENSIONS TO TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS, AND DETAILS.
7. SPECIFIC NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
8. ALL SITE PREPARATION AND GRADING, INCLUDING PLACEMENT AND COMPACTION OF FILL AND COMPACTION OF SLAB SUB-GRADE SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL INVESTIGATION REPORT REFERENCED IN FOUNDATIONS GENERAL NOTE #1 BELOW.
9. SPECIAL INSPECTIONS SHALL BE CONDUCTED AS REQUIRED BY CHAPTER 17 IN IBC 2018. SEE SPECS.

FOUNDATIONS:

1. FOUNDATION DESIGN IS BASED ON THE PRESUMPTIVE CRITERIA SET FORTH IN THE 2018 INTERNATIONAL BUILDING CODE (IBC 2018) SECTION 1806:

   FOUNDATION SYSTEM: SHALLOW FOOTINGS BEARING ON RESIDUAL SOIL / STRUCTURAL FILL

   ALLOWABLE VERTICAL BEARING PRESSURE: 1,500 PSF (IBC TABLE 1806.2)
2. ACTUAL ALLOWABLE BEARING PRESSURES SHALL BE VERIFIED PRIOR TO FOOTING PLACEMENT BY A GEOTECHNICAL ENGINEER REGISTERED IN THE PROJECT STATE.
3. CONTRACTOR TO PROVIDE FOR DE-WATERING IN EXCAVATIONS FROM EITHER SURFACE WATER, GROUND WATER, OR SEEPAGE.
4. CONTRACTOR SHALL PROVIDE AND INSTALL ALL CRIBBING, SHEATHING AND SHORING REQUIRED TO SAFELY RETAIN THE EARTH BANKS.
5. CONTRACTOR SHALL PROTECT ALL UTILITY LINES, ETC., ENCOUNTERED DURING EXCAVATION AND BACKFILLING.
6. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED, BUT NOT BEFORE CONCRETE HAS ATTAINED FULL DESIGN STRENGTH.
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH THE REQUIREMENTS AND RECOMMENDATIONS OF A REGISTERED GEOTECHNICAL ENGINEER IN ORDER TO ACHIEVE THE MINIMUM ALLOWABLE BEARING PRESSURE NOTED ABOVE. ALL SITE PREPARATION AND GRADING, INCLUDING MOISTURE CONDITIONING, PLACEMENT, AND COMPACTION OF FILL AND COMPACTION OF SLAB SUB-GRADE SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS BY THE GEOTECHNICAL ENGINEER.

CONCRETE NOTES

1. ALL CONCRETE DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318 AND ACI 301.
2. PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE I, UNLESS NOTED OTHERWISE.
3. THE CONTRACTOR SHALL HAVE THE CONCRETE TEST REPORTS AVAILABLE AT THE JOB SITE AT ALL TIMES.
4. CONCRETE SLUMP SHALL BE 3" TO 5" AT TIME OF PLACEMENT.
5. CONCRETE MIX DESIGNS SHALL BE ESTABLISHED BY THE SUPPLIER IN ACCORDANCE WITH THE ABOVE REFERENCED STANDARDS. MIX DESIGNS SHALL BE SUBMITTED WITH BACK-UP DATA PER ACI 318 TO THE ARCHITECT FOR REVIEW PRIOR TO CONCRETE PLACEMENT.
6. ALL BELOW-FLOOR PIPING AND CONDUIT SHALL BE PLACED BELOW THE SLAB AND NOT WITHIN THE SLAB. VERTICAL PENETRATIONS THROUGH THE SLAB ARE ACCEPTABLE.
7. THE FOLLOWING CHART SHALL BE USED TO DETERMINE MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS, MAXIMUM WATER TO CEMENTITIOUS MATERIAL RATIO (W/CM), AND ENTRAINED AIR CONTENT UNLESS SPECIFICALLY NOTED OTHERWISE:

	EXPOSURE CATEGORY						
STRUCTURAL COMPONENT	F^1 CLASS	$S^{5,7}$ CLASS	P CLASS	C^6 CLASS	MIN^2 F'c (PSI)	MAX^3 W/ CM	$ENTRAINED^4$ AIR CONTENT ±1½%
FOOTINGS	F0	S0	P0	C0	3000	N/A	N/A
SLABS ON GRADE	F1	S0	P0	C0	4500	0.45	5%
ELEVATED COMPOSITE SLAB	F1	S0	P0	C0	4500	0.45	5%

NOTES:
1. FOR F3 CLASS SEE ACI 318 TABLE 26.4.2.2(b) FOR ADDITIONAL CONCRETE MIXTURE REQUIREMENTS.
2. MINIMUM IS BASED ON MAXIMUM OF DESIGN AND GOVERNING EXPOSURE CLASS REQUIREMENTS.
3. MAXIMUM IS BASED ON GOVERNING EXPOSURE CLASS REQUIREMENTS.
4. BASED ON MAXIMUM ¾" AGGREGATE SIZE.
5. SEE ACI 318 TABLE 19.3.2.1 FOR CEMENTITIOUS MATERIAL AND CALCIUM CHLORIDE ADMIXTURE RESTRICTIONS.
6. SEE ACI 318 TABLE 19.3.2.1 FOR MAXIMUM WATER-SOLUBLE CHLORIDE ION CONTENT.
7. SO EXPOSURE ASSUMED. GC SHALL VERIFY WITH GEOTECHNICAL REPORT.

REINFORCING STEEL NOTES

1. CONCRETE CLEAR COVER AT REINFORCING STEEL SHALL BE (UNLESS NOTED OTHERWISE):

   CONCRETE CAST AGAINST EARTH: 3"
   CONCRETE EXPOSED TO EARTH OR WEATHER: 2"
   CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
     #11 AND SMALLER IN SLABS, WALLS, AND JOISTS: ¾"
     BEAM AND COLUMN TIES AND STIRRUPS: 1½"
2. REINFORCING STEEL BARS SHALL HAVE A YIELD STRENGTH OF 60 KSI AND SHALL CONFORM TO ASTM A615.
3. REINFORCING BARS TO BE WELDED SHALL CONFORM TO ASTM A706.
4. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. WHERE WWF SHEETS MEET THE SHEETS SHALL BE LAPPED 2 FULL SQUARES AND TIED.
5. REINFORCING BAR LENGTHS NOTED ON STRUCTURAL DRAWINGS SHALL BE IN ADDITION TO THE LENGTH OF ANY HOOKS.
6. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
7. WALL FOOTING AND SLAB TURNDOWN REINFORCEMENT SHALL BE CONTINUOUS AT COLUMNS.
8. CONTRACTOR SHALL PROVIDE CORNER BARS AT ALL CORNERS.
9. REINFORCING STEEL MARKED "CONTINUOUS" SHALL BE LAPPED w/ CLASS "B" LAP SPLICE UNLESS SPECIFICALLY DETAILED OTHERWISE.
10. LAPS SPLICES SHALL BE CLASS “B” UNLESS NOTED OTHERWISE, AND SHALL CONFORM TO ACI 318.
11. MINIMUM LAPS OF CONCRETE REINFORCING BARS SHALL BE AS FOLLOWS:

#4 BARS	2'-4"
#5 BARS	3'-0"
#6 BARS	3'-7"

12. CONTRACTOR SHALL NOT PLACE ANY REINFORCING UNTIL APPROVED SHOP DRAWINGS ARE RECEIVED ON THE JOB SITE.

STRUCTURAL STEEL NOTES

1. DETAILING, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE AISC 360 SPECIFICATION FOR STEEL BUILDINGS AND THE AISC STEEL CONSTRUCTION MANUAL.
2. STRUCTURAL STEEL FRAMING AND ERECTION SHALL COMPLY WITH THE LATEST OSHA STEEL ERECTION STANDARDS.
3. STRUCTURAL STEEL SHAPES SHALL BE OF THE FOLLOWING YIELD STRENGTHS AND ASTM SPECIFICATIONS:

WF COLUMNS AND BEAMS:	50KSI	ASTM A992
HSS TUBES	46KSI	ASTM A500 GRADE B
PLATES, ANGLES, AND CHANNELS:	36KSI	ASTM A36
PIPE	35KSI	ASTM A53 GRADE B

4. ALL CONNECTIONS SHALL BE SHOP WELDED AND FIELD BOLTED UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.
5. BOLTED CONNECTIONS SHALL BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH RCSC-2000 SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 AND ASTM A490 BOLTS.
6. ALL FIELD WELDING SHALL BE DONE WITH E-70XX ELECTRODES.
7. WELDED CONNECTIONS SHALL CONFORM TO AWS D1.1 STRUCTURAL WELDING CODE BY THE AMERICAN WELDING SOCIETY, LATEST EDITION.
8. PROOF OF CERTIFICATION OF ALL WELDERS PERFORMING FIELD WELDING SHALL BE AVAILABLE AT THE JOB SITE AT ALL TIMES.
9. FIELD WELDS SHALL BE CLEARED OF ALL SPOILS AND RE-PRIMED.
10. THE GENERAL CONTRACTOR SHALL SUBMIT TO THE ARCHITECT, FOR REVIEW, ENGINEERED AND CONTRACTOR-APPROVED SHOP DRAWINGS SHOWING SHOP FABRICATION DETAILS, FIELD ASSEMBLY DETAILS, AND ERECTION DRAWINGS FOR ALL STRUCTURAL STEEL.
11. ALL CONNECTIONS SHALL BE DESIGNED BY A CONNECTION ENGINEER EMPLOYED BY OR CONTRACTED TO THE FABRICATOR. THE CONNECTION ENGINEER SHALL BE A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT STATE. CONNECTION DETAILING SHALL BE PERFORMED BY A DETAILER UNDER THE RESPONSIBLE CHARGE OF THE CONNECTION ENGINEER. CONNECTION DESIGN & DETAILING SHALL BE PERFORMED USING RATIONAL ENGINEERING DESIGN AND STANDARD PRACTICE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE GENERAL DETAILS SHOWN ON THE DRAWINGS ARE CONCEPTUAL ONLY AND DO NOT INDICATE THE REQUIRED NUMBER OF BOLTS OR WELD SIZES, UNLESS SPECIFICALLY NOTED. CONNECTION CALCULATIONS, SIGNED & SEALED BY THE CONNECTION ENGINEER, SHALL BE SUBMITTED WITH THE STRUCTURAL STEEL SHOP DRAWINGS FOR THE ENGINEER'S RECORD.
12. NON-COMPOSITE BEAM CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR'S CONNECTION ENGINEER FOR THE REACTION DUE TO THE MAXIMUM ALLOWABLE LOAD FOR THE APPROPRIATE SPAN AND SHAPE BASED ON THE ALLOWABLE UNIFORM LOAD TABLES IN THE ABOVE REFERENCED STANDARD.
13. COMPOSITE BEAM CONNECTIONS SHALL BE DESIGNED FOR THE REACTIONS INDICATED IN THE COMPOSITE STEEL FRAMING NOTES ON THIS SHEET, UNLESS NOTED OTHERWISE IN THESE STRUCTURAL DRAWINGS.
14. MINIMUM NUMBER OF BOLT ROWS BASED ON MEMBER DEPTH FOR W & C SHAPES ARE AS NOTED BELOW. ADDITIONAL BOLT ROWS MAY BE REQUIRED AS REQUIRED BY CONNECTION ENGINEER'S DESIGN PER NOTES ABOVE.

UP TO 12" DEEP..............................	2 ROWS
14" TO 16" DEEP............................	3 ROWS
18" TO 21" DEEP............................	4 ROWS
24" DEEP..	5 ROWS

15. ALL SIMPLE SHEAR CONNECTIONS SHALL BE CAPABLE OF END ROTATION AS PER THE REQUIREMENTS IN SECTION J1.2 OF THE ABOVE REFERENCED STANDARD FOR UNRESTRAINED MEMBERS.
16. AFTER FABRICATION, ALL STEEL SHALL BE CLEANED OF ALL RUST, LOOSE MILL SCALE AND OTHER FOREIGN MATERIALS AND SHOP PAINTED WITH FABRICATOR'S STANDARD RUST-INHIBITING PRIMER TO PROVIDE A MINIMUM DRY FILM THICKNESS OF 3 MILS. SHOP PRIMER SHALL BE BLOCKED OUT ON SURFACES THAT RECEIVE FIELD WELDS, SURFACES THAT RECEIVE FIELD-WELDED HEADED STUDS, SURFACES THAT RECEIVE SPRAY-ON FIREPROOFING AND SURFACES AT SLIP-CRITICAL BOLTS.
17. UNLESS NOTED AS GALVANIZED ON THE DRAWINGS, ALL STRUCTURAL STEEL EXPOSED TO THE WEATHER SHALL BE SHOP PRIMED, CLEANED & PAINTED AS FOLLOWS: SSPC-SP6, 2-PACK EPOXY POLYAMIDE ZINCH-RICH PAINT WITH HIGH-BUILD EPOXY TOPCOAT.
18. ALL STEEL EXPOSED TO EARTH SHALL BE PAINTED WITH A BITUMINOUS COATING.
19. FIELD TOUCH-UP PAINTING:ALL STEEL MEMBERS AND THEIR CONNECTIONS, THAT ARE EXPOSED TO VIEW, SHALL BE TOUCHED-UP AT FIELD WELDS, AT AREAS WHERE SHOP PRIMER WAS BLOCKED OUT AT SLIP-CRITICAL BOLTS AND AT AREAS THAT HAVE BEEN SCRATCHED OR SCRAPED DURING ERECTION. TOUCH-UP PAINT COLOR SHALL MATCH EXISTING. TOUCH-UP PAINTING SHALL BE COMPLETED BY THE FABRICATOR PRIOR TO FABRICATOR'S DEMOBILIZATION FROM THE JOB SITE. TOUCH-UP AT GALVANIZED COMPONENTS SHALL UTILIZE A ZINC-RICH PAINT.
20. THERE SHALL BE NO FIELD CUTTING OF STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

COMPOSITE STEEL FRAMING:

1. COMPOSITE BEAM CONNECTIONS SHALL BE DESIGNED FOR THE REACTIONS SHOWN BELOW OR PER STRUCTURAL STEEL NOTE NO. 12, WHICHEVER IS GREATER. UNDER NO CIRCUMASTANCES SHALL THE NUMBER OF BOLT ROWS BE LESS THAN THAT INDICATED IN STRUCTURAL STEEL NOTE 14:

W8, W10	15 KIPS
W12, W14	30 KIPS
W16, W18	55 KIPS
W21	70 KIPS
W24...	80 KIPS

2. HEADED STUD SHEAR CONNECTORS SHALL COMPLY WITH ASTM A108 GRADES 1016 THROUGH 1020. WELDING AND TESTING SHALL CONFORM TO AWS D1.1-85 STUD WELDING.
3. DECK MANUFACTURER SHALL SUBMIT LAYOUT OF SHEAR STUD QUANTITIES AND ARRANGEMENT FOR EVERY BEAM TO STRUCTURAL ENGINEER FOR APPROVAL.
4. TOP FLANGE OF STRUCTURAL STEEL BEAMS TO RECEIVE STUDS SHALL BE FREE OF PAINT, SCALE, RUST AND OTHER SUBSTANCES WHICH WOULD BE DETRIMENTAL TO THE WELDING OF STUDS THRU DECK.
5. SCREEDS SHALL BE SET TO ASSURE A LEVEL FLOOR SLAB. SCREEDS SHALL BE ADJUSTABLE SO THAT WHEN THE STRUCTURAL SYSTEM DEFLECTS WITH THE ADDITION OF WET CONCRETE, THE FLOOR WILL BE LEVEL BETWEEN MAJOR SUPPORT MEMBERS. THE COST FOR ADDITIONAL CONCRETE DUE TO DEFLECTION OF THE STRUCTURAL SYSTEM SHALL BE BORNE BY THE CONTRACTOR. ACTUAL THICKNESS OF CONCRETE ABOVE THE METAL DECK SHALL NOT BE LESS THAN THE THICKNESS INDICATED ON THE DWGS.
6. METAL DECK SHALL CONFORM TO THE STEEL DECK INSTITUTE (SDI) SPECIFICATIONS, LATEST EDITION.
7. ATTACH COMPOSITE METAL DECK TO ALL SUPPORTING MEMBERS WITH ⅝"Φ PUDDLE WELDS @ 12" O.C. EACH HEADED STUD WELDED THRU THE DECK TO THE SUPPORTING MEMBER MAY BE CONSIDERED AS REPLACING ONE PUDDLE WELD. PROVIDE (3) #10 SIDE LAP SCREWS PER SPAN BUT IN NO CASE SHALL SIDE LAPS BE SPACED MORE THAN 36" O.C.
8. COMPOSITE DECK SHALL BE PROVIDED WITH ADEQUATE LENGTH TO ALLOW 3 SPAN OR MORE INSTALLATION. DECK SECTION PROPERTIES SHALL BE SUFFICIENT TO ACHIEVE THE UNSHORED CLEAR SPANS REPRESENTED ON THE DRAWINGS.

STEEL STAIRS, GUARD RAILS & GRAB BARS NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND EXACT CONFIGURATION OF STAIRS. DO NOT SCALE OFF STRUCTURAL DRAWINGS FOR DIMENSIONS.
2. UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS, ALL STAIRS, LANDINGS, LANDING POSTS, GUARD RAILS, HAND RAILS AND THEIR CONNECTIONS TO THE SUPPORTING STRUCTURE SHALL BE DESIGNED BY THE STAIR SUPPLIER/FABRICATOR TO SUPPORT THE DESIGN LOADS PRESCRIBED IN THE GOVERNING BUILDING CODE AND AS NOTED BELOW.
3. HANDRAIL ASSEMBLIES AND GUARDS SHALL BE DESIGNED TO RESIST A LOAD OF 50 PLF APPLIED IN ANY DIRECTION AT THE TOP AND TO TRANSFER THIS LOAD THROUGH THE SUPPORTS TO THE STRUCTURE.
4. HANDRAIL ASSEMBLIES AND GUARDS SHALL BE ABLE TO RESIST A SINGLE CONCENTRATED LOAD OF 200 LBS APPLIED IN ANY DIRECTION AT ANY POINT ALONG THE TOP, AND SHALL HAVE ATTACHMENT DEVICES AND SUPPORTING STRUCTURE TO TRANSFER THIS LOADING TO APPROPRIATE STRUCTURAL ELEMENTS OF THE BUILDING. THIS LOAD NEED NOT BE ASSUMED TO ACT CONCURRENTLY WITH THE LOADS SPECIFIED IN THE PRECEDING NOTE.
5. INTERMEDIATE RAILS (ALL THOSE EXCEPT THE HANDRAIL), BALUSTERS AND PANEL FILLERS SHALL BE DESIGNED TO WITHSTAND A HORIZONTALLY APPLIED NORMAL LOAD OF 50 LBS ON AN AREA EQUAL TO 1 SQUARE FOOT, INCLUDING OPENINGS AND SPACE BETWEEN RAILS. REACTIONS DUE TO THIS LOADING ARE NOT REQUIRED TO BE SUPERIMPOSED WITH REACTIONS DUE TO LOADS SPECIFIED IN THE PRECEDING NOTES.
6. GRAB BARS SHALL BE DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 250 LBS APPLIED IN ANY DIRECTION AT ANY POINT.
7. MEMBERS SHALL BE ALIGNED AND SHALL BE FIT TOGETHER WITHOUT VISIBLE FLAWS, GAPS, OR OFFSETS.
8. WELD CORNERS AND SEAMS CONTINUOUSLY AND IN ACCORDANCE WITH AWS RECOMMENDATIONS. GRIND ALL EXPOSED WELDS SMOOTH AND FLUSH TO MATCH AND BLEND WITH ADJOINING SURFACES.
9. CLEAN ARCHITECTURALLY EXPOSED MEMBERS PER SSPC_SP-10-63 AND PRIME WITH A ZINC-RICH PRIMER.
10. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR OTHER DETAILS INCLUDING (BUT NOT LIMITED TO) STEEL FINISHES AND RAILINGS.

ARCHITECTURALLY EXPOSED STEEL NOTES

1. ALL ARCHITECTURALLY EXPOSED STEEL SHALL COMPLY WITH AISC SPECIFICATION FOR ARCHITECTURALLY EXPOSED STRUCTURAL STEEL.
2. WELD CORNERS AND SEAMS, AND GRIND EXPOSED WELDS SMOOTH AND FLUSH WITH STEEL SURFACES.
3. CLEAN ARCHITECTURALLY EXPOSED MEMBERS PER SSPC_SP-10-63 AND PRIME WITH A ZINC-RICH PRIMER.
4. SEE ARCHITECTURAL DRAWINGS FOR FINAL PAINTING.

POST INSTALLED ANCHORS:

1. POST-INSTALLED ANCHORS SHALL BE USED ONLY WHERE SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS.
2. CONTRACTOR SHALL OBTAIN APPROVAL FROM ENGINEER OF RECORD PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLACE ANCHORS.
3. CARE SHALL BE GIVEN TO AVOID CONFLICTS WITH OR DAMAGE TO EXISTING REBAR.
4. HOLES SHALL BE DRILLED AND CLEANED AND ANCHORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER PRINTED INSTALLATION INSTRUCTIONS (MPII). ANCHORS SHALL BE INSTALLED AT NOT LESS THAN MINIMUM EDGE DISTANCES AND/OR SPACING INDICATED IN THE MPII.

SHOP-DRAWINGS

1. CONTRACTOR SHALL SUBMIT TO THE ARCHITECT COMPLETE SHOP-DRAWINGS FOR BUILDING COMPONENTS NOT DESIGNED BY THE DESIGN TEAM OF RECORD PRIOR TO FABRICATION AND INSTALLATION. SHOP-DRAWINGS REQUIRING ENGINEERING DESIGN SHALL BE SIGNED AND STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA.
2. SIGNED AND STAMPED SHOP-DRAWINGS SHALL BE AVAILABLE AT THE JOB SITE DURING TIMES OF INSPECTION.
3. REVIEW OF SHOP-DRAWINGS BY THE DESIGN TEAM OF RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR ERRORS AND OMISSIONS WITHIN THE SHOP-DRAWINGS. REVIEW OF SHOP-DRAWINGS BY THE ARCHITECT OR ENGINEER DOES NOT CONSTITUTE A CHANGE TO THE CONTRACT. WHERE DISCREPANCIES EXIST BETWEEN THE CONTRACT DOCUMENTS AND THE SHOP-DRWINGS THE CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE UNLESS THE CHANGE IS EXPLICITLY AUTHORIZED IN WRITING.

CONCRETE MASONRY NOTES

1. ALL MASONRY DESIGN AND CONSTRUCTION SHALL CONFORM TO ACI 530 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES AND ACI 530.1 SPECIFICATION FOR MASONRY STRUCTURES.
2. 28-DAY STRENGTH OF MASONRY f'm SHALL BE 2000 PSI MINIMUM.
3. MASONRY UNITS SHALL CONFORM TO ASTM C-90.
4. GROUT SHALL CONFORM TO ASTM C476. GROUT STRENGTH SHALL BE 3000 PSI MINIMUM.
5. C.M.U. SHALL BE PLACED IN RUNNING BOND, UNLESS NOTED OTHERWISE.
6. PROVIDE FULL MORTAR BEDDING. MORTAR SHALL BE TYPE M OR S.
7. MASONRY WALLS SHALL BE TEMPORARILY BRACED UNTIL ALL SUPPORTING ELEMENTS AND CONNECTIONS ARE IS IN PLACE AND CONCRETE SLABS HAVE REACHED DESIGN STRENGTH. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE AND INSTALL BRACING AND SHORING FOR ALL MASONRY WALLS AS REQUIRED TO ENSURE STABILITY DURING CONSTRUCTION.
8. PROVIDE 9-GAUGE LADDER-TYPE HORIZONTAL REINFORCEMENT AT 16" O.C. VERTICALLY FOR FULL HEIGHT OF WALLS, UNLESS NOTED OTHERWISE. LAP LADDER REINFORCEMENT 8 INCHES MINIMUM AT SPLICES. LAP AT WALL INTERSECTIONS AND CORNERS. HORIZONTAL REINFORCEMENT SHALL BE DISCONTINUOUS AT CONTRACTION JOINTS. SEE SPECS FOR JOINT REINFORCEMENT DETAILS.
9. CONNECT C.M.U. WALLS TO PRE-ENGINEERED STEEL COLUMNS AT 16" VERTICALLY. SEE ARCHITECTURAL DRAWINGS FOR CONNECTION DETAILS.
10. PROVIDE C.M.U. LINTELS ABOVE AND BELOW ALL OPENINGS THROUGH CMU WALLS. SEE CMU LINTEL SCHEDULE AND NOTES ON THIS SHEET FOR LINTEL DETAILS AND FOR REINFORCED CELLS AT LINTEL BEARING LOCATIONS AT EACH SIDE OF OPENINGS. SEE ARCHITECTURAL DRAWINGS FOR ALL CMU WALL OPENING SIZES AND LOCATIONS.
11. MAXIMUM CONTROL JOINT SPACING IN MASONRY WALLS = 30'-0" UNLESS NOTED OTHERWISE. SEE ARCH DRAWINGS FOR JOINT LOCATIONS.
12. UNLESS NOTED OTHERWISE, CMU BOND-BEAMS SHALL BE PROVIDED AT BUILDING FLOOR AND ROOF ELEVATIONS, STAIR LANDINGS, AND ALONG TOPS OF ALL WALLS. UNLESS NOTED OTHERWISE, ALL U-BLOCKS/BOND BEAMS ON STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE FILLED WITH 3000 PSI GROUT AND REINFORCED WITH 2#5 BARS CONTINUOUS (BOTTOM). PROVIDE CORNER BARS AT CORNERS, LAPPING 48 BAR DIAMETERS WITH HORIZONTAL BARS. BARS SHALL BE CONTINUOUS AT CONTRACTION JOINTS.
13. ALL C.M.U. WALLS ON STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE REINFORCED WITH VERTICAL REBAR AT EACH CORNER, AT EACH SIDE OF OPENINGS, AT EACH SIDE OF COLUMNS AND CONTRACTION JOINTS, AND AT MAXIMUM SPACINGS INDICATED IN THESE STRUCTURAL DRAWINGS. FILL ALL REINFORCED CELLS OF BLOCK VERTICALLY WITH 3000 PSI GROUT FROM FOUNDATION TO TOP OF WALL. PROVIDE DOWELS OF MATCHING SIZE WITH STANDARD HOOK IN FOUNDATIONS.
14. FILL ALL BELOW-GRADE CELLS WITH GROUT.
15. MINIMUM LAPS OF REINFORCING BARS SHALL BE AS FOLLOWS:

#4 BARS	2'-4"
#5 BARS	3'-0"
#6 BARS	3'-7"

16. MASONRY SHALL BE PROTECTED FROM FREEZING DURING PLACEMENT & CURING. COLD WEATHER MASONRY PROCEDURES SHALL COMPLY W/ THE ABOVE REFERENCED STANDARDS.
17. SEE ALL CMU MASONRY DETAILS IN THESE DRAWINGS.
18. CMU WALL REINFORCING SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION. DRAWINGS SHALL SHOW ALL WALL AND PILASTER REINFORCING IN PLAN AND IN ELEVATION.

C.M.U. LINTEL SCHEDULE:

CLEAR SPAN	LINTEL DEPTH	REINFORCEMENT
0'-0" - 3'-6"	8"	2 #4
3'-6" - 5'-0"	8"	2 #5
5'-0" - 7'-0"	8"	2 #6

C.M.U. LINTEL NOTES

1. AT EACH END BEAR C.M.U. LINTELS 2'-0" MINIMUM ON REINFORCED WALL.
2. UNLESS NOTED OTHERWISE, PROVIDE FULL HEIGHT REINFORCED AND GROUTED CELLS AT EACH SIDE OF OPENINGS. UNLESS NOTED OTHERWISE, PROVIDE 2 REINFORCED CELLS EACH SIDE OF OPENINGS EQUAL TO AND LESS THAN 6'-0" WIDE, AND 3 REINFORCED CELLS EACH SIDE OF OPENINGS GREATER THAN 6'-0" WIDE. BAR SIZES SHALL BE AS INDICATED IN STRUCTURAL SECTIONS. HOOK VERTICAL BAR IN BOND BEAM AT TOP. PROVIDE MATCHING DOWEL HOOKED IN FOUNDATION.
3. SCHEDULED LINTELS SHALL BE PROVIDED ABOVE AND BELOW ALL WALL PENETRATIONS, UNLESS NOTED OTHERWISE.

PRE-ENGINEERED METAL BUILDING NOTES

1. THE DESIGN, FABRICATION, AND ERECTION OF THE PRE-ENGINEERED BUILDING SHALL CONFORM TO IBC 2018. DESIGN LOADS SHALL BE IN ACCORDANCE WITH ASCE 7-16.
2. PRE-ENGINEERED METAL BUILDING MANUFACTURER SHALL PROVIDE SHOP-DRAWINGS AND CALCULATIONS SEALED AND SIGNED BY A REGISTERED PROFESSIONAL STRUCTURAL ENGINEER IN THE STATE OF GEORGIA. SHOP-DRAWINGS AND CALCULATIONS SHALL SHOW WIND AND SEISMIC DESIGN DATA IN ACCORDANCE WITH IBC 2018 AND ASCE 7-16. SHOP-DRAWINGS AND CALCULATIONS SHALL SHOW REACTIONS AT CONNECTIONS TO THE FOUNDATION, INCLUDING DEAD AND LIVE LOADS, LATERAL THRUST, UPLIFT, WIND, AND SEISMIC LOADS. SHOP-DRAWINGS SHALL INCLUDE ANCHOR BOLT DETAILS AND LAYOUT. SHOP-DRAWINGS SHALL INDICATE THAT BOLTED CONNECTIONS SHALL BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH RCSC-2000.
3. THE PRE-ENGINEERED METAL BUILDING SHALL NOT TRANSFER MOMENTS TO THE FOUNDATION.
4. LATERAL DRIFT DUE TO WIND LOADS OF PRE-ENGINEERED BUILDINGS WITH ATTACHED MASONRY SHALL NOT EXCEED H/200.
5. THE ANCHOR BOLT TYPE AND DIAMETERS SHALL BE DESIGNED AND SPECIFIED BY THE PRE-ENGINEERED METAL BUILDING DESIGNER. SEE STRUCTURAL DETAILS.
6. THE PRE-ENGINEERED METAL BUILDING SHALL BE DESIGNED TO SUPPORT THE LOADS IMPOSED ON THE STRUCTURE BY MECHANICAL, ELECTRICAL, PLUMBING, AND OTHER EQUIPMENT SHOWN ON THE CONTRACT DOCUMENT DRAWINGS AND SPECS.
7. ALL COLUMNS SHALL BE LOCATED ON GRIDLINES AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
8. SEE ARCHITECTURAL DRAWINGS FOR METAL BUILDING COLUMN DIMENSION CRITERIA AT CONCRETE-ENCASED COLUMNS AT TRUCK PARKING AREA.
9. PEMB SHALL BE DESIGNED FOR ALL DOORS AND ROLL-UP DOORS IN BOTH THE OPEN AND CLOSED CONDITION DURING FULL DESIGN WIND SPEED EVENT.
10. UNLESS NOTED OTHERWISE, AT OVERHEAD DOORS PEMB SUPPLIER SHALL PROVIDE STRUCTURAL CHANNEL JAMBS AND HEADERS, RATHER THAN COLD-FORMED JAMBS & HEADERS. AT ALL OVERHEAD DOORS PEMB SUPPLIER SHALL PROVIDE ADDITIONAL GIRTS DESIGNED AND LOCATED FOR INSTALLATION OF OVERHEAD DOORS.

COMPONENTS & CLADDING WIND PRESSURES DIAGRAMS AND SCHEDULES:

ALL COMPONENTS & CLADDING PRESSURES ARE GIVEN AS ULTIMATE & SERVICE LEVEL PRESSURES PER ASCE 7-10

DIAGRAM OF BLDG ENVELOPE

COMPONENT & CLADDING DESIGN WIND PRESSURES FOR EXTERIOR WALLS (ULTIMATE/SERVICE) (PSF)					
LOCATION		EFFECTIVE WIND AREA			
		10 FT^2	50 FT^2	100 FT^2	200 FT^2
NEGATIVE	ZONE 4, p_6	−42.9 / −29.0	−39.8 / −26.9	−38.5 / −23.1	−37.2 / −22.3
	ZONE 5, p_6	−50.5 / −34.1	−44.3 / −26.6	−41.6 / −25.0	−38.9 / −23.3
POSITIVE	ZONE 4 & 5, p_5	+40.4 / +27.3	+37.3 / +22.4	+36.0 / +21.6	+34.7 / +20.8

NOTES:
1. POSITIVE PRESSURE DENOTES WIND TOWARD WALL SURFACE, AND NEGATIVE PRESSURE DENOTES WIND AWAY FROM WALL SURFACE.

DIAGRAM OF ROOF PLAN

COMPONENT & CLADDING GROSS DESIGN WIND PRESSURES ALONG ROOF (ULTIMATE/SERVICE) (PSF)				
LOCATION		EFFECTIVE WIND AREA		
		10 FT^2	50 FT^2	100 FT^2
NEGATIVE	ZONE 1	−42.3 / −25.4	−41.3 / −24.8	−40.4 / −24.2
	ZONE 2	−65.5 / −39.3	−51.9 / −31.1	−46.0 / −27.6
	ZONE 3	−93.4 / −56.0	−60.3 / −36.2	−46.0 / −27.6
POSITIVE	ZONE 1	+23.7 / +14.2	+21.7 / +13.0	+20.9 / +12.5
	ZONES 2 & 3	+23.7 / +14.2	+21.7 / +13.0	+20.9 / +12.5
OVERHANG	ZONE 2	−47.4 / −28.4	−45.4 / −27.2	−44.6 / −26.8
	ZONE 3	−78.0 / −46.8	−39.1 / −23.5	−22.3 / −13.4

NOTES:
1. POSITIVE PRESSURE DENOTES WIND TOWARD ROOF SURFACE, AND NEGATIVE PRESSURE DENOTES WIND AWAY FROM ROOF SURFACE.

PROJECT NUMBER	2512
DATE	03/12/26
DRAWN BY	MJM
APPROVED BY	MJM
REVISIONS	

CITY OF SOCIAL CIRCLE
PUBLIC WORKS DEPARTMENT
New Fleet Facility
New Vine Circle, Social Circle, GA 30025

TURNIPSEED ENGINEERS
ATLANTA
AUGUSTA
ST. SIMONS ISLAND

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Architects & Engineers
580 Colonial Park Drive
Roswell, Georgia 30075
770-993-2034

No. SE000863
MARCUS J. MILLARD

SHEET NUMBER
S0.01

COLUMN FOOTING SCHEDULE:

MARK	SIZE	REINF.	NOTES
F5	5'-0"x5'-0"x24"	5#5 EA WAY TOP & BOTT	
F6	6'-0"x6'-0"x24"	5#5 EA WAY TOP T#5 EA WAY BOTT	
F8	8'-0"x8'-0"x24"	5#6 EA WAY TOP 8#6 EA WAY BOTT	

COLUMN FOOTING SCHEDULE NOTES:

1. SEE DETAILS 1/S3.02, 2/S3.02, 3/S3.02 & 4/S3.02 FOR FOOTINGS AT PRE-ENGINEERED METAL BUILDING COLUMNS.
2. SEE DETAILS 3/S3.02 AND 6/S3.02 AT CONCRETE-ENCASED PRE-ENGINEERED METAL BUILDING COLUMNS.
3. SEE 5/S3.02 FOR CONCRETE PIERS CAST MONOLITHICALLY WITH SLAB ON EACH COLUMN FOOTING.

WALL FOOTING SCHEDULE:

MARK	SIZE	REINF.	NOTES
WF2-0	2'-0" WIDE x 14" THK	3#5 CONT #5@12" TRANS	
WF3-0	3'-0" WIDE x 14" THK	4#5 CONT #5@12" TRANS	

WALL FOOTING SCHEDULE NOTES:

1. SEE SECTIONS ON S3.01 FOR WALL FOOTING DETAILS AND OTHER INFO.

FOUNDATION PLAN LEGEND:

F.J. : INDICATES SAW-CUT FLOOR JOINT, SEE 4&5/S3.01 FOR DETAILS. REINFORCEMENT SHALL BE DISCONTINUOUS AT THE JOINTS. FILL ALL JOINTS WITH AN ELASTOMERIC JOINT FILLER/SEALANT AFTER CONCRETE CURES FOR 28 DAYS MINIMUM.

P1, P2... : INDICATES CAST-IN-PLACE CONCRETE PIER POURED MONOLITHIC WITH THE SLAB. SEE 5/S3.02 FOR PIER REINFORCEMENT, DIMENSIONS, AND OTHER DETAILS.

H.P. : INDICATES 1#5x16'-0" HAIRPIN REBAR WRAPPED AROUND COLUMN ANCHOR BOLTS. SEE COLUMN DETAILS.

B3#6 : INDICATES 3 #6 FULL-HEIGHT VERTICAL BARS IN GROUTED CELLS WITH MATCHING DOWELS IN FOOTING. LOCATE BARS DIRECTLY BENEATH MEZZANINE STEEL BEAM BEARING LOCATIONS. SEE MEZZANINE FRAMING PLAN.

B2#6 : INDICATES 2 #6 FULL-HEIGHT VERTICAL BARS IN GROUTED CELLS WITH MATCHING DOWELS IN FOOTING. LOCATE BARS DIRECTLY BENEATH MEZZANINE STEEL BEAM BEARING LOCATIONS. SEE MEZZANINE FRAMING PLAN.

F.D. : INDICATES FLOOR DRAIN. SEE ARCHITECTURAL DRAWINGS FOR DETAILS AND FOR SLAB SLOPES TO FLOOR DRAINS.

-0- : INDICATES STEP IN FOOTING. SEE TYPICAL DETAIL AT STEPPED FOOTING 3/G3.01.

TOF : INDICATES TOP OF FOOTING ELEVATION REFERENCED FROM FINISH FLOOR ELEVATION 0'-0". SEE NOTE #3 ON THIS SHEET.

: INDICATES EXTENTS OF 8" SLAB-ON-GRADE. SEE PLAN FOR SLAB-ON-GRADE DETAILS.

: INDICATES CMU MASONRY WALL.

EOS : INDICATES EDGE OF SLAB ON GRADE

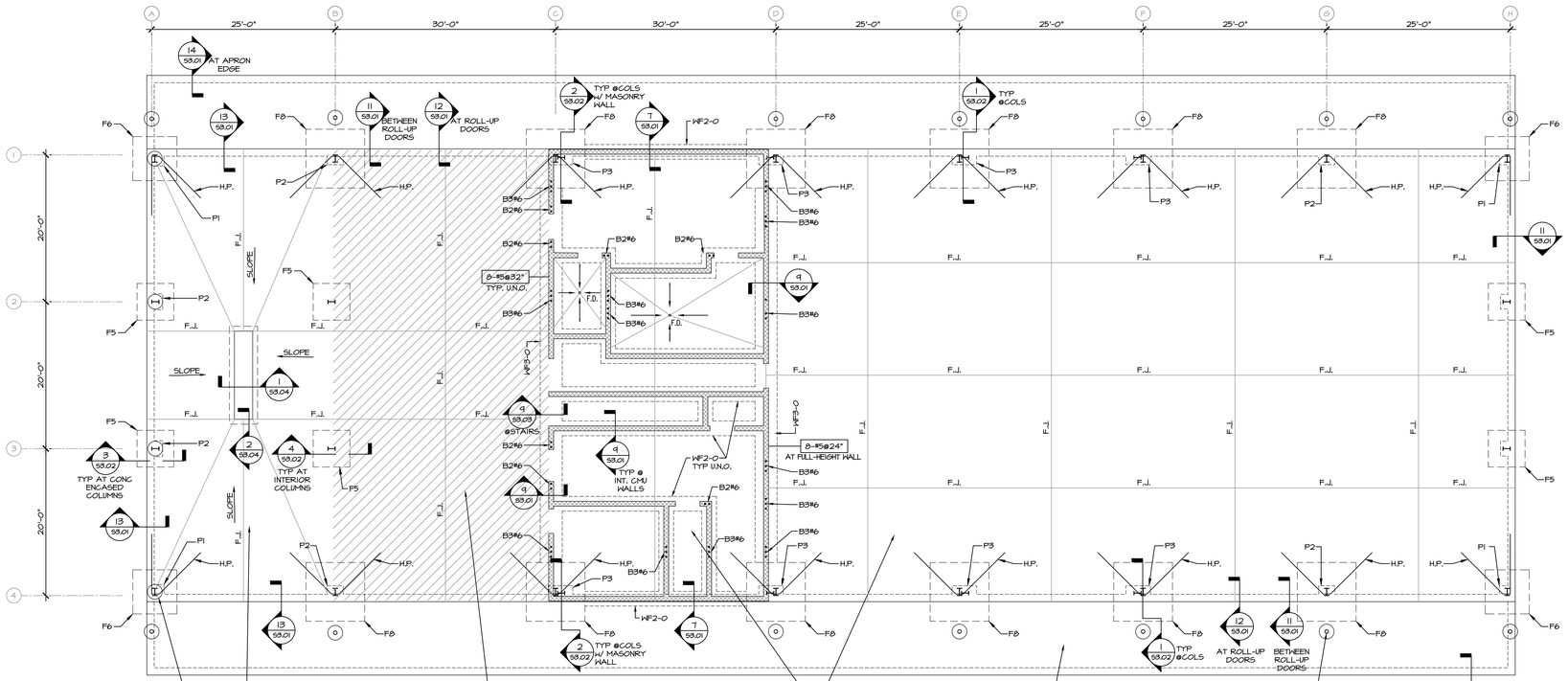
_____* : INDICATES APPROXIMATE SPOT ELEVATION. SEE CIVIL DRAWINGS.

X-X@XX : DENOTES CMU WALL SIZE AND REINFORCEMENT. ALL REINFORCEMENT SHALL BE CENTERED IN CELLS, UNO. ALL REINFORCED CELLS SHALL BE GROUTED. SEE PLANS, CONCRETE MASONRY NOTES ON S0.01 AND STRUCTURAL SECTIONS & DETAILS FOR ADDITIONAL VERTICAL BARS AND FOR OTHER DETAILS.

- BAR SPACING (INCHES)
- BAR SIZE
- NOMINAL CMU MASONRY SIZE

FOUNDATION PLAN NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR FOR EXACT LOCATIONS OF FLOOR SLOPES AND ADDITIONAL DIMENSIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION.
2. SEE CIVIL DRAWINGS FOR TYPICAL TOP OF SLAB-ON-GRADE. SEE ARCH FOR SLAB SLOPES.
3. TYPICAL TOP-OF-FOOTING ELEVATION AT PRE-ENGINEERED METAL BUILDING COLUMNS SHALL BE -2'-0" BELOW FF, UNLESS NOTED OTHERWISE.
4. MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 4,500 PSI FOR SLABS-ON-GRADE AND 3,000 PSI FOR WALL FOOTINGS AND COLUMN FOOTINGS. SEE CONCRETE NOTES ON S0.01 FOR OTHER CONCRETE DETAILS.
5. CONTRACTOR COORDINATE FOOTING AND ANCHOR BOLT LAYOUT WITH FINAL METAL BUILDING DESIGN. FOOTINGS SHALL BE CENTERED UNDER THE COLUMN BASE PLATES. WHERE FOOTING SUPPORTS MAIN FRAME COLUMN AND PORTAL COLUMN, FOOTING SHALL BE CENTERED UNDER THE MAIN FRAME COLUMN. VERIFY ALL BASE PLATE LOCATIONS PRIOR TO POURING CONCRETE. IN THE EVENT OF ANY DISCREPANCIES BETWEEN THE FINAL METAL BUILDING DESIGN AND THESE CONSTRUCTION DOCUMENTS NOTIFY THE ARCHITECT.
6. SEE 3/S3.02 AND 6/S3.02 FOR METAL BUILDING COLUMN DIMENSION CRITERIA AT CONCRETE-ENCASED COLUMNS AT TRUCK PARKING.



1 S1.01 FOUNDATION PLAN -VEHICLE MAINTENANCE & STORAGE
SCALE: 1/8" = 1'-0"

PROJECT NUMBER
2512
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APPROVED BY
MJM

REVISIONS

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SHEET NUMBER
S1.01

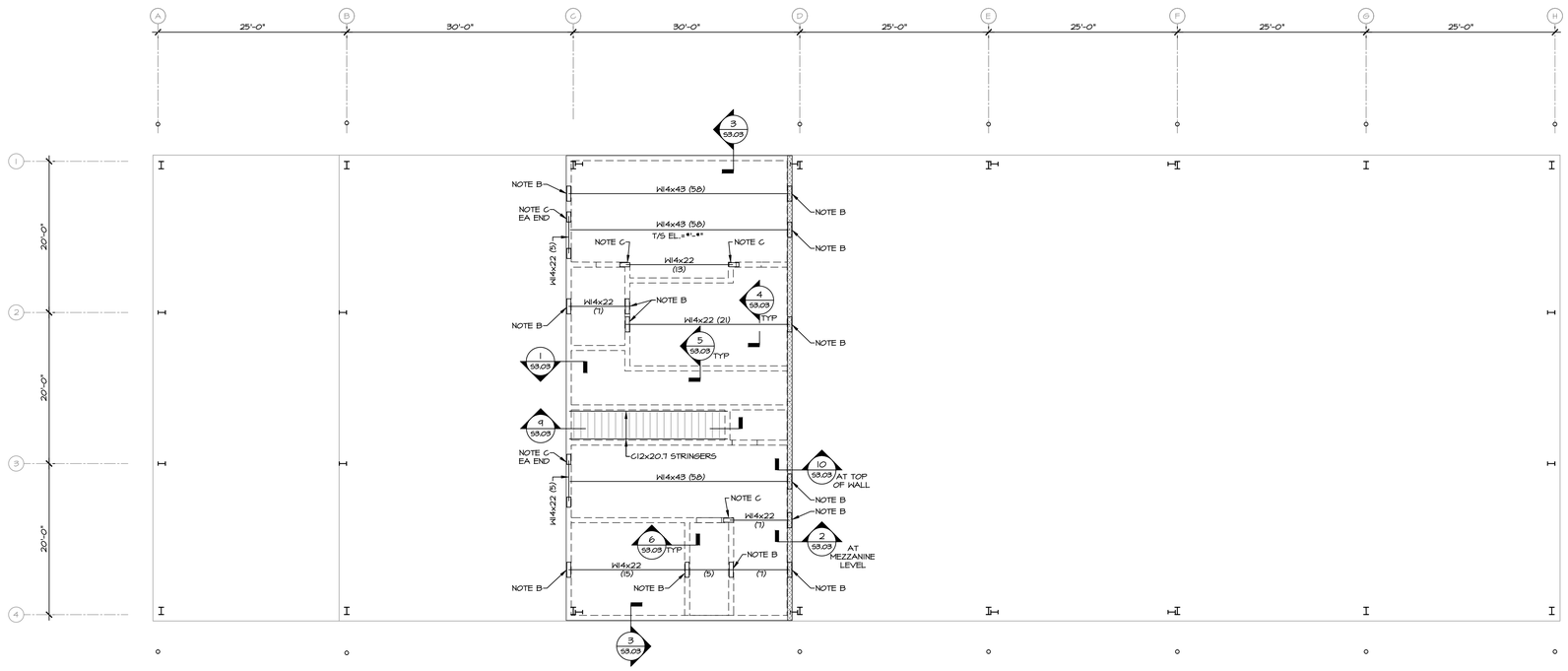
MEZZANINE FRAMING PLAN LEGEND:

NOTE B : WHERE STRUCTURAL STEEL BEAM BEARS ON MASONRY WALL PROVIDE PL$\frac{3}{4}$"x7$\frac{1}{2}$"x2'-0" BEARING PLATE WITH (3)-$\frac{3}{4}$"x6" HEADED STUDS. FILL 3 CELLS OF BLOCK WITH GROUT FROM FOUNDATION TO BEARING PLATE AND REINFORCE WITH 1 #6 BAR IN EACH CELL. PROVIDE MATCHING HOOKED DOWELS IN FOOTING. WELD BEAM TO PLATE WITH $\frac{1}{4}$"x4" FILLET WELD AT EACH SIDE OF BEAM. WHERE BEAM BEARING INTERRUPTS MASONRY BOND-BEAM, WELD ASTM A706 (WELDABLE-TYPE) BARS TO WEB OF BEAM TO LAP WITH MASONRY BOND BEAM BARS. NUMBER AND SIZE OF WELDED BARS SHALL MATCH MASONRY BOND-BEAM BARS. SEE CONCRETE NOTES ON S0.01 FOR LAP LENGTHS. AFTER BEAM PLACEMENT, FORM AND FILL WITH GROUT THE WALL CAVITY AROUND BEAM BEARING. SEE 7/S5.03.

NOTE C : WHERE STRUCTURAL STEEL BEAM BEARS ON MASONRY WALL PROVIDE PL$\frac{3}{4}$"x7$\frac{1}{2}$"x1'-4" BEARING PLATE WITH (2)-$\frac{3}{4}$"x6" HEADED STUDS. FILL 2 CELLS OF BLOCK WITH GROUT FROM FOUNDATION TO BEARING PLATE AND REINFORCE WITH 1 #6 BAR IN EACH CELL. PROVIDE MATCHING HOOKED DOWELS IN FOOTING. WELD BEAM TO PLATE WITH $\frac{1}{4}$"x4" FILLET WELD AT EACH SIDE OF BEAM. WHERE BEAM BEARING INTERRUPTS MASONRY BOND-BEAM, WELD ASTM A706 (WELDABLE-TYPE) BARS TO WEB OF BEAM TO LAP WITH MASONRY BOND BEAM BARS. NUMBER AND SIZE OF WELDED BARS SHALL MATCH MASONRY BOND-BEAM BARS. SEE CONCRETE NOTES ON S0.01 FOR LAP LENGTHS. AFTER BEAM PLACEMENT, FORM AND FILL WITH GROUT THE WALL CAVITY AROUND BEAM BEARING. SEE 7/S5.03.

MEZZANINE FRAMING PLAN NOTES:

1. MEZZANINE FLOOR SYSTEM SHALL CONSIST OF 3$\frac{1}{4}$" THICK NORMAL WEIGHT CONCRETE ON 2" x 18 GAUGE GALVANIZED COMPOSITE METAL DECK (5 1/2" TOTAL THICKNESS). DECK SHALL BE VULCRAFT 2VL1 OR EQUAL. REINFORCE WITH 6x6-W2.9xW2.9 WWF LOCATED 1 $\frac{1}{2}$" FROM TOP OF SLAB. SEE COMPOSITE STEEL FRAMING NOTES ON S0.01 FOR ATTACHMENT OF DECK TO SUPPORTING STEEL.
2. TOP OF STORAGE MEZZANINE SLAB SHALL BE 12'-5$\frac{1}{4}$" ABOVE REFERENCE TOP OF SLAB-ON-GRADE OF 0'-0". TOP OF STRUCTURAL STEEL BEAMS SHALL BE 12'-0" UNLESS NOTED OTHERWISE.
3. NUMBER IN ( ) DENOTES QUANTITY OF 3/4" DIAMETER HEADED STUDS TO BE FIELD-WELDED TO TOP OF BEAM. HEADED STUDS SHALL BE 3 1/2" MIN AND 4 1/2" MAX IN HEIGHT AFTER WELDING. STUDS SHALL BE UNIFORMLY DISTRIBUTED OVER THE LENGTH OF BEAM.
4. MEZZANINE SLAB CONCRETE STRENGTH SHALL BE 4,500 PSI (MIN) AT 28 DAYS.
5. AT ALL PENETRATIONS THRU MEZZANINE, FRAME AROUND OPENINGS WITH L3x3x$\frac{1}{4}$" ANGLES WITH VERTICAL LEG DOWN. COPE VERTICAL LEG SO THAT ANGLE HORIZONTAL LEG BEARS ON JOISTS OR BEAMS IN ONE DIRECTION AND BEARS ON ANGLES IN OTHER DIRECTION.
6. WHERE EXACT LOCATION OF STEEL BEAMS IS NOT SPECIFICALLY DIMENSIONED ON PLAN, PROVIDE EQUAL SPACING BETWEEN BEAMS AND MASONRY SUPPORT WALLS.



1 S1.02 MEZZANINE FRAMING PLAN -VEHICLE MAINTENANCE & STORAGE

SCALE: 1/8 = 1'-0"

PROJECT NUMBER
2512
DATE
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DRAWN BY
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APPROVED BY
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REVISIONS

CITY OF SOCIAL CIRCLE
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GEORGIA REGISTERED No. SE000863 STRUCTURAL ENGINEER MARCUS J. MILLARD

SHEET NUMBER

S1.02

COLUMN FOOTING SCHEDULE:

MARK	SIZE	REINF.	NOTES
F4	4'-0"x4'-0"x24"	4#5 EA WAY TOP & BOTT	
F6	6'-0"x6'-0"x24"	5#5 EA WAY TOP 7#5 EA WAY BOTT	
F8	8'-0"x8'-0"x24"	5#6 EA WAY TOP 8#6 EA WAY BOTT	

COLUMN FOOTING SCHEDULE NOTES:

1. SEE DETAIL 3/S3.02 FOR FOOTINGS AT PRE-ENGINEERED METAL BUILDING COLUMNS.
2. SEE DETAILS 3/S3.02 AND 6/S3.02 AT CONCRETE-ENCASED PRE-ENGINEERED METAL BUILDING COLUMNS.
3. SEE 5/S3.02 FOR CONCRETE PIERS CAST MONOLITHICALLY WITH SLAB ON EACH COLUMN FOOTING.

FOUNDATION PLAN LEGEND:

F_J. : INDICATES SAW-CUT FLOOR JOINT. SEE 4.E5/S3.01 FOR DETAILS. REINFORCEMENT SHALL BE DISCONTINUOUS AT THE JOINTS. FILL ALL JOINTS WITH AN ELASTOMERIC JOINT FILLER/SEALANT AFTER CONCRETE CURES FOR 28 DAYS MINIMUM.

P1, P2... : INDICATES CAST-IN-PLACE CONCRETE PIER POURED MONOLITHIC WITH THE SLAB. SEE 5/S3.02 FOR PIER REINFORCEMENT, DIMENSIONS, AND OTHER DETAILS.

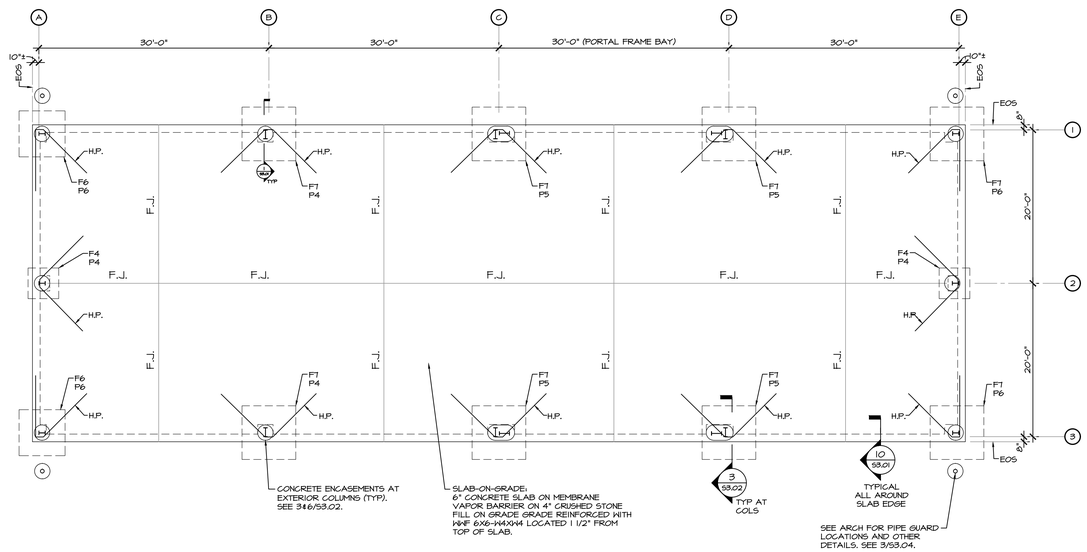
H.P. : INDICATES 1#5x16'-0" HAIRPIN REBAR WRAPPED AROUND COLUMN ANCHOR BOLTS. SEE COLUMN DETAILS.

TOF : INDICATES TOP OF FOOTING ELEVATION REFERENCED FROM FINISH FLOOR ELEVATION 0'-0". SEE NOTE #3 ON THIS SHEET.

EOS : INDICATES EDGE OF SLAB ON GRADE

FOUNDATION PLAN NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR FOR EXACT LOCATIONS OF FLOOR SLOPES AND ADDITIONAL DIMENSIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION.
2. SEE CIVIL DRAWINGS FOR TYPICAL TOP OF SLAB-ON-GRADE. SEE ARCH FOR SLAB SLOPES.
3. TYPICAL TOP-OF-FOOTING ELEVATION AT PRE-ENGINEERED METAL BUILDING COLUMNS SHALL BE -2'-0" BELOW FF, UNLESS NOTED OTHERWISE.
4. MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 4,500 PSI FOR SLABS-ON-GRADE AND 3,000 PSI FOR WALL FOOTINGS AND COLUMN FOOTINGS. SEE CONCRETE NOTES ON S0.01 FOR OTHER CONCRETE DETAILS.
5. CONTRACTOR COORDINATE FOOTING AND ANCHOR BOLT LAYOUT WITH FINAL METAL BUILDING DESIGN. FOOTINGS SHALL BE CENTERED UNDER THE COLUMN BASE PLATES, WHERE FOOTING SUPPORTS MAIN FRAME COLUMN AND PORTAL COLUMN, FOOTING SHALL BE CENTERED UNDER THE MAIN FRAME COLUMN. VERIFY ALL BASE PLATE LOCATIONS PRIOR TO POURING CONCRETE. IN THE EVENT OF ANY DISCREPANCIES BETWEEN THE FINAL METAL BUILDING DESIGN AND THESE CONSTRUCTION DOCUMENTS NOTIFY THE ARCHITECT.
6. SEE 3/S3.02 AND 6/S3.02 FOR METAL BUILDING COLUMN DIMENSION CRITERIA AT CONCRETE-ENCASED COLUMNS AT TRUCK PARKING.



1 / S2.01 FOUNDATION PLAN -COVERED EQUIPMENT STORAGE

SCALE: 1/8 = 1'-0"

PROJECT NUMBER
2512

DATE
03/12/26

DRAWN BY
MJM

APPROVED BY
MJM

REVISIONS

CITY OF SOCIAL CIRCLE
PUBLIC WORKS DEPARTMENT
New Fleet Facility
New Vine Circle, Social Circle, GA 30025

TURNIPSEED ENGINEERS
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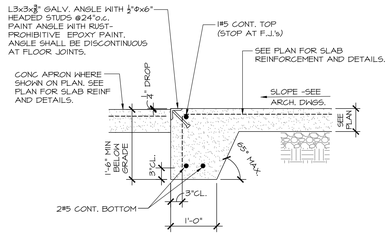
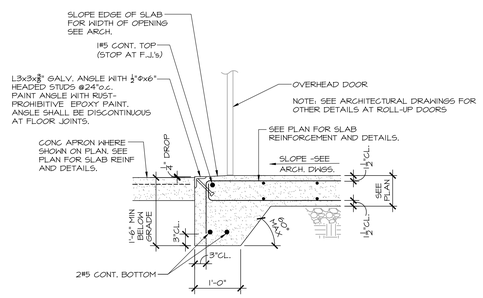
GEORGIA REGISTERED No. SE000863 STRUCTURAL ENGINEER MARCUS J. MILLARD

SHEET NUMBER
S2.01



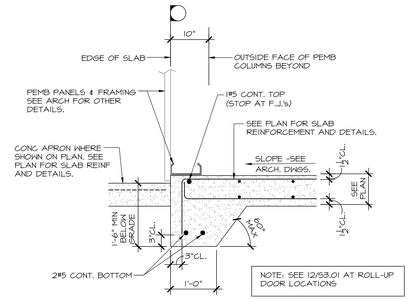
SECTION AT WASH BAY SLAB EDGE

13 / S3.01 — SCALE: 3/4" = 1'-0"



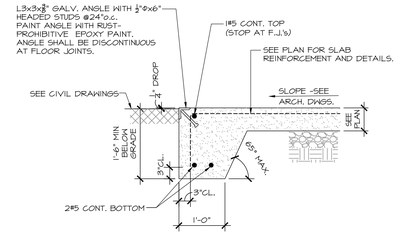
SLAB EDGE SECTION AT OVERHEAD ROLL-UP DOORS

12 / S3.01 — SCALE: 3/4" = 1'-0"



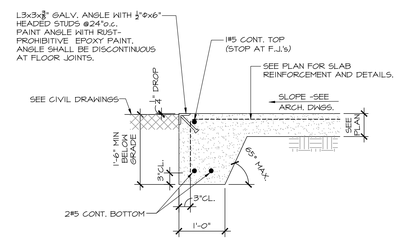
SECTION AT EXT WALL W/OUT MASONRY

11 / S3.01 — SCALE: 3/4" = 1'-0"



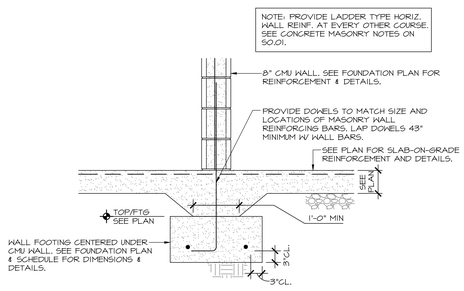
APRON EDGE SECTION

14 / S3.01 — SCALE: 3/4" = 1'-0"



SLAB EDGE AT COVERED EQUIPMENT STORAGE

10 / S3.01 — SCALE: 3/4" = 1'-0"

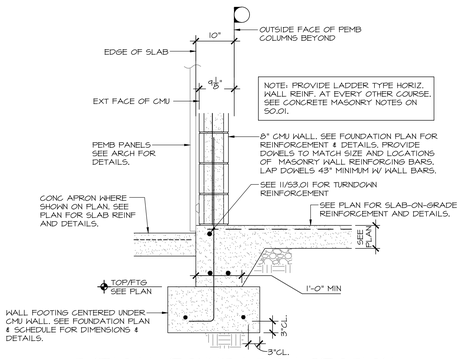


TYPICAL FOUNDATION SECTION AT INTERIOR 8" MASONRY WALL

9 / S3.01 — SCALE: 3/4" = 1'-0"

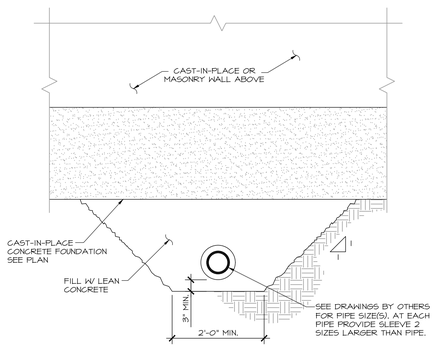
NOT USED

8 / S3.01 — SCALE: 3/4" = 1'-0"



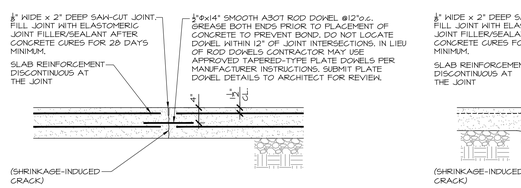
TYPICAL FOUNDATION SECTION AT EXTERIOR 8" MASONRY WALL

7 / S3.01 — SCALE: 3/4" = 1'-0"



TYP DETAILS AT PIPE(S) BELOW WALL FTG OR TURN-DOWN

6 / S3.01 — SCALE: 3/4" = 1'-0"

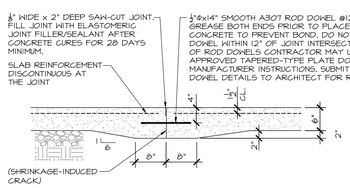


NOTE: FRESH CONCRETE SHALL BE INTERNALLY VIBRATED TO CONSOLIDATE CONCRETE AROUND RODS.

NOTE: DOWELS SHALL BE ALIGNED, SUPPORTED AND FIXED IN PLACE SO THAT THEY REMAIN PERPENDICULAR TO, AND CENTERED BENEATH, THE JOINT AS CONCRETE IS POURED AND VIBRATED.

TYPICAL FLOOR JOINT DETAIL AT 8" SLAB

5 / S3.01 — SCALE: 3/4" = 1'-0"

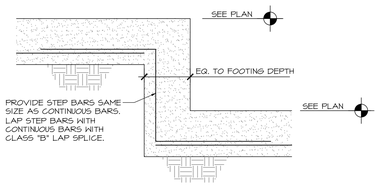


NOTE: FRESH CONCRETE SHALL BE INTERNALLY VIBRATED TO CONSOLIDATE CONCRETE AROUND RODS.

NOTE: DOWELS SHALL BE ALIGNED, SUPPORTED AND FIXED IN PLACE SO THAT THEY REMAIN PERPENDICULAR TO, AND CENTERED BENEATH, THE JOINT AS CONCRETE IS POURED AND VIBRATED.

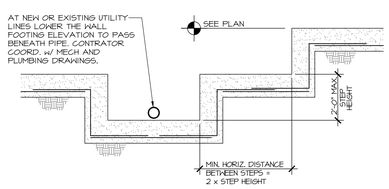
TYPICAL FLOOR JOINT DETAIL AT 6" SLAB

4 / S3.01 — SCALE: 3/4" = 1'-0"



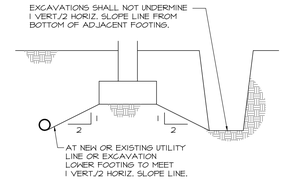
TYPICAL DETAIL AT STEPPED FOOTING

3 / S3.01 — NOT TO SCALE



TYPICAL DETAIL OF WALL FOOTING @ UTILITY LINE

2 / S3.01 — NOT TO SCALE



TYPICAL DETAIL OF FOOTING ADJACENT TO EXCAVATION

1 / S3.01 — NOT TO SCALE

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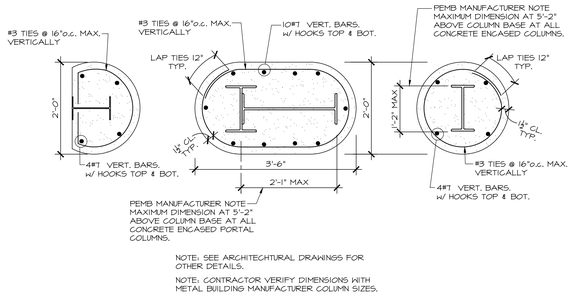
GEORGIA REGISTERED No. SE000863 STRUCTURAL ENGINEER MARCUS J. MILLARD

SHEET NUMBER

S3.01



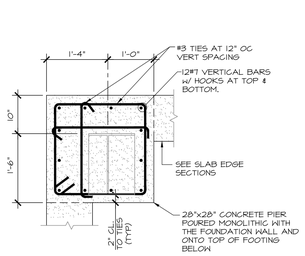
NOTE: SEE ARCHITECHTURAL DRAWINGS FOR OTHER DETAILS.

NOTE: CONTRACTOR VERIFY DIMENSIONS WITH METAL BUILDING MANUFACTURER COLUMN SIZES.

TYPICAL CONCRETE COLUMN ENCASEMENT SECTIONS

6 / S3.02

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



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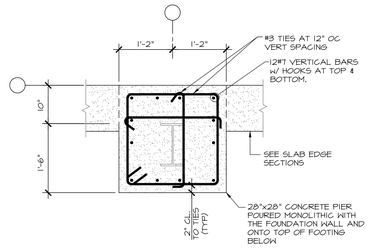

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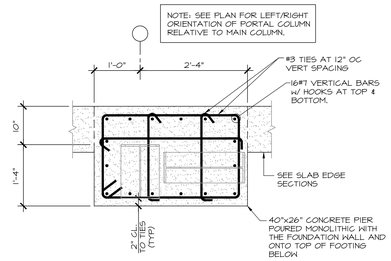

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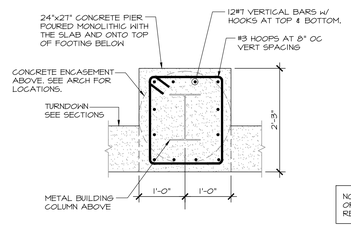
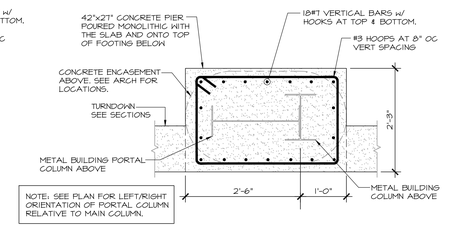
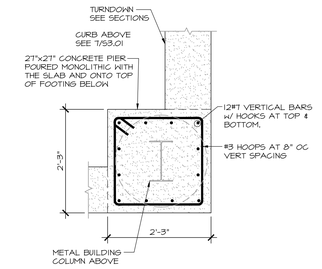


P4



P5

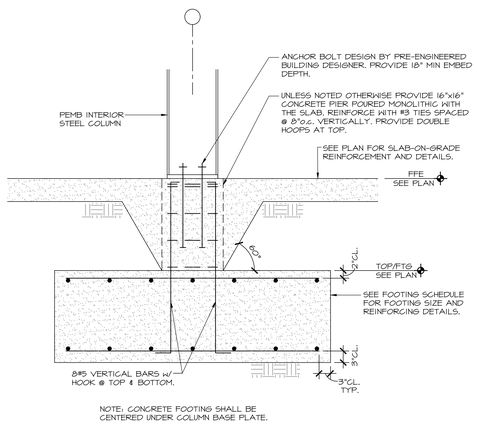


P6

PLAN DETAILS AT REINFORCED CONCRETE PIERS

5 / S3.02

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

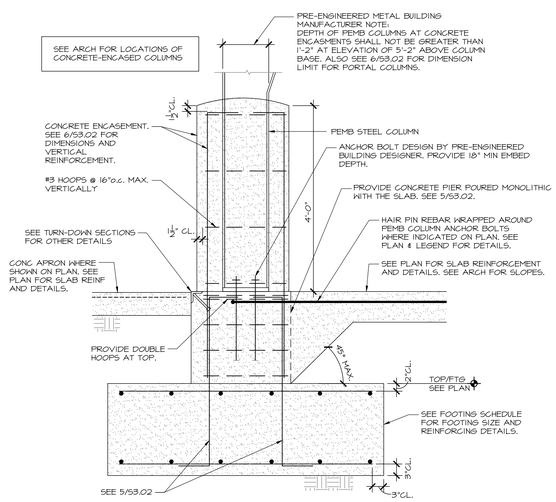


NOTE: CONCRETE FOOTING SHALL BE CENTERED UNDER COLUMN BASE PLATE.

TYPICAL INTERIOR COLUMN & FOOTING DETAILS

4 / S3.02

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



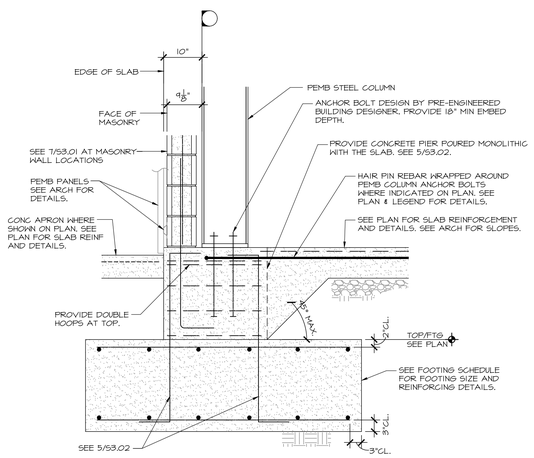
NOTE: CONCRETE FOOTING SHALL BE CENTERED UNDER COLUMN BASE PLATE, AT PORTAL COLUMNS FOOTING SHALL BE CENTERED UNDER THE MAIN COLUMN AND NOT THE PORTAL COLUMN.

NOTE: TURNDOWN REINFORCEMENT NOT SHOWN FOR CLARITY. TURNDOWN BARS SHALL BE CONTINUOUS THROUGH THE PIER AND FOOTING.

SECTION AT CONCRETE-ENCASEMENT AT METAL BUILDING COLUMN

3 / S3.02

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



NOTE: CONCRETE FOOTING SHALL BE CENTERED UNDER COLUMN BASE PLATE, AT PORTAL COLUMNS FOOTING SHALL BE CENTERED UNDER THE MAIN COLUMN AND NOT THE PORTAL COLUMN.

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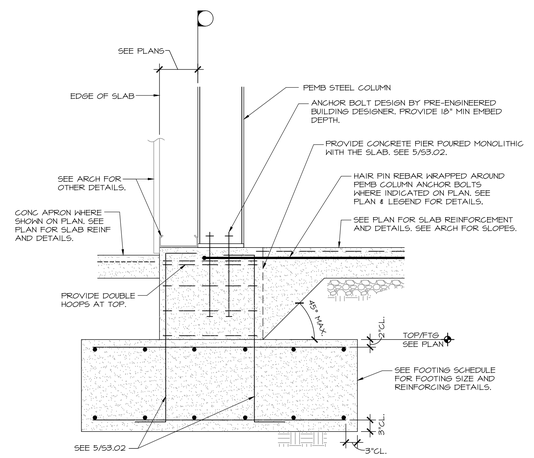
DETAIL AT MASONRY WALL

2 / S3.02

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



NOTE: CONCRETE FOOTING SHALL BE CENTERED UNDER COLUMN BASE PLATE, AT PORTAL COLUMNS FOOTING SHALL BE CENTERED UNDER THE MAIN COLUMN AND NOT THE PORTAL COLUMN.

NOTE: TURNDOWN REINFORCEMENT NOT SHOWN FOR CLARITY. TURNDOWN BARS SHALL BE CONTINUOUS THROUGH THE PIER AND FOOTING.

TYPICAL EXTERIOR COLUMN & FOOTING DETAILS

1 / S3.02

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

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REVISIONS

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New Fleet Facility
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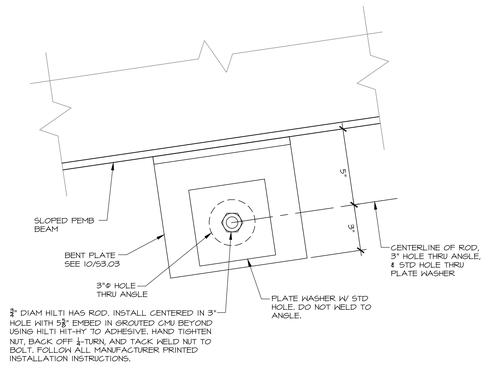
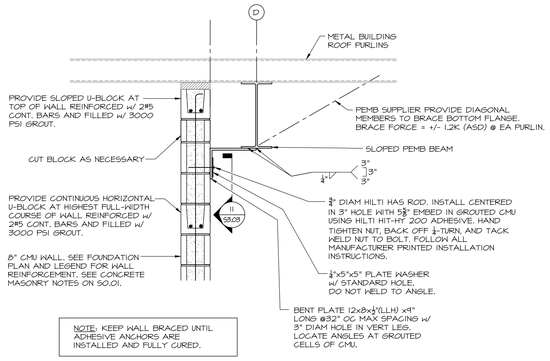


SEE 10/S3.03 FOR LOCATIONS & OTHER DETAILS.

SECTION AT TOP OF FULL-HEIGHT MASONRY WALL

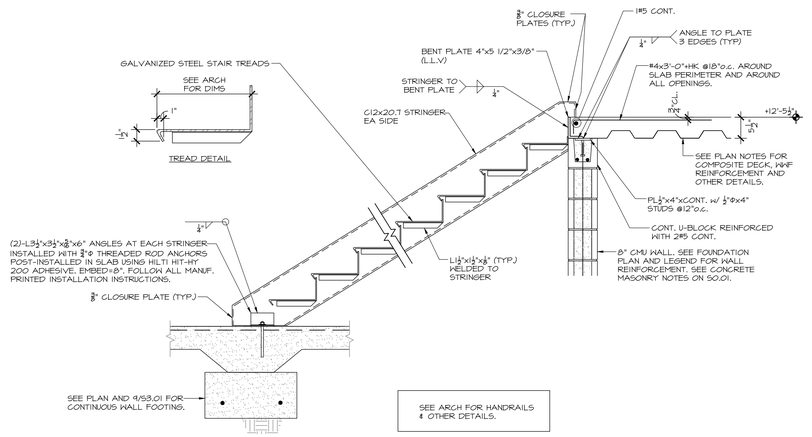
11 / S3.03 — SCALE: 3/4" = 1'-0"



NOTE: KEEP WALL BRACED UNTIL ADHESIVE ANCHORS ARE INSTALLED AND FULLY CURED.

SECTION AT TOP OF FULL-HEIGHT MASONRY WALL

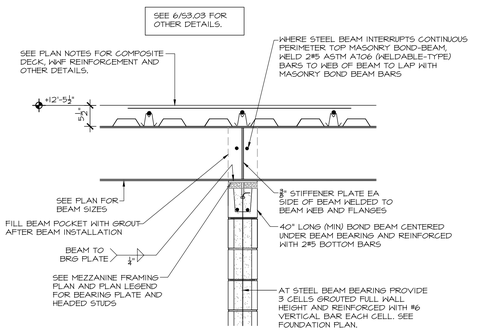
10 / S3.03 — SCALE: 3/4" = 1'-0"



SEE ARCH FOR HANDRAILS & OTHER DETAILS.

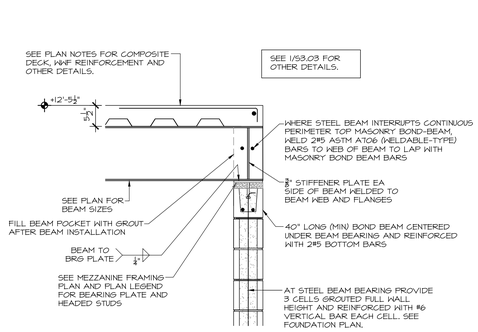
MEZZANINE STEEL STAIR SECTION

9 / S3.03 — SCALE: 3/4" = 1'-0"



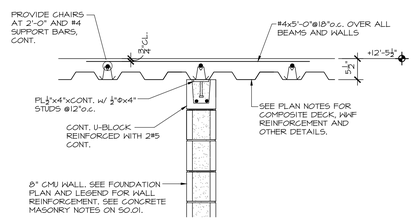
DETAIL AT CONTINUOUS STEEL BEAM BEARING ON MASONRY WALL

8 / S3.03 — SCALE: 3/4" = 1'-0"



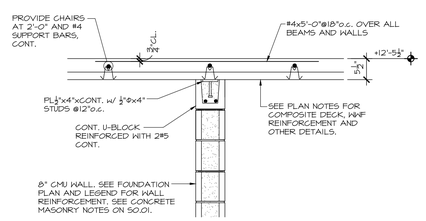
DETAIL AT STEEL BEAM END BEARING ON MASONRY WALL

7 / S3.03 — SCALE: 3/4" = 1'-0"



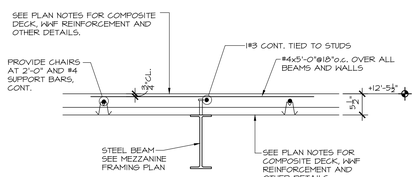
SECTION AT MEZZANINE ON INTERIOR MASONRY WALL

6 / S3.03 — SCALE: 3/4" = 1'-0"



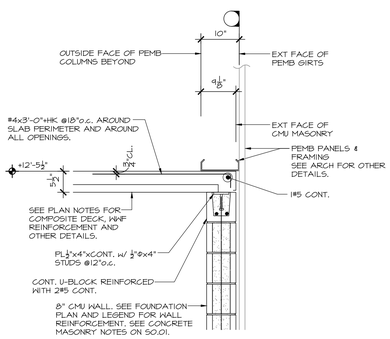
SECTION AT MEZZANINE ON INTERIOR MASONRY WALL

5 / S3.03 — SCALE: 3/4" = 1'-0"



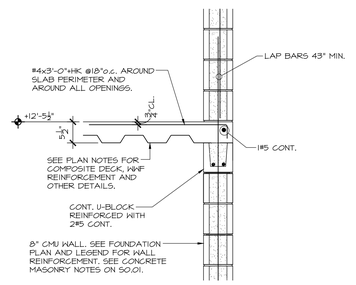
SECTION AT MEZZANINE INTERIOR STEEL BEAM

4 / S3.03 — SCALE: 3/4" = 1'-0"



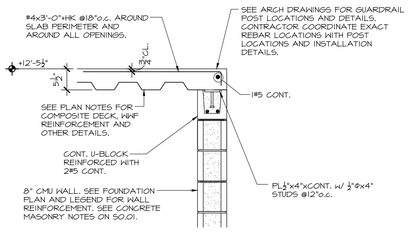
SECTION AT MEZZANINE AT 8" MASONRY EXTERIOR WALL

3 / S3.03 — SCALE: 3/4" = 1'-0"



SECTION AT MEZZANINE EDGE AT FULL HEIGHT MASONRY WALL

2 / S3.03 — SCALE: 3/4" = 1'-0"



SECTION AT MEZZANINE EDGE ON MASONRY WALL

1 / S3.03 — SCALE: 3/4" = 1'-0"

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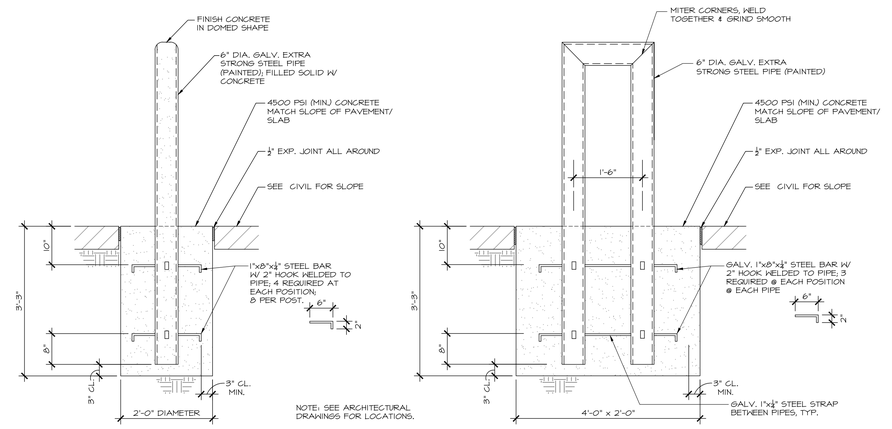
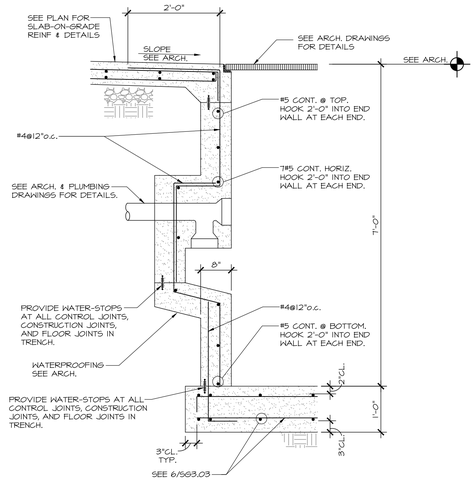


3 S3.04 SINGLE AND DUAL PIPE GUARD DETAILS

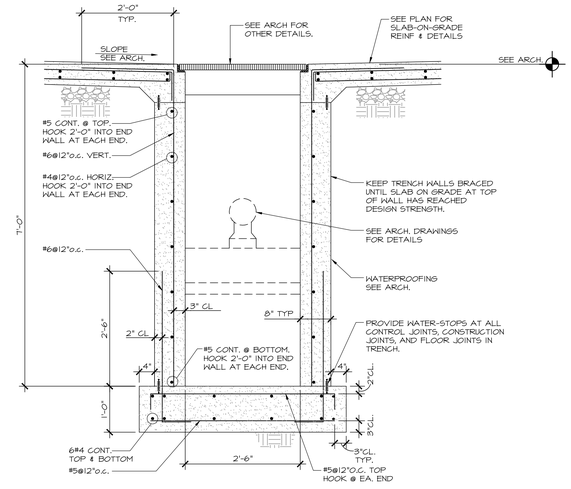
SCALE: 3/4" = 1'-0"



NOTE: CONTRACTOR COORDINATE WHICH END OF TRENCH WASTE PIPE IS LOCATED. AT TRENCH ENDS WITHOUT WASTE PIPE PROVIDE DETAILS SIMILAR TO 1/S3.04. SEE ARCH. DRAWINGS FOR OTHER DETAILS.

2 S3.04 SECTION AT END OF MUD TRAP TRENCH DRAIN

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



NOTE: PROVIDE SIMILAR DETAILS AT END OF MUD TRAP TRENCH AWAY FROM WASTE PIPE NICHE. AT END WITH NICHE SEE SECTION 2/S3.04. SEE ARCH. DRAWINGS FOR OTHER DETAILS.

1 S3.04 TYPICAL SECTION THRU MUD TRAP TRENCH DRAIN

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

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PLUMBING FIXTURE SPECIFICATIONS

F1 – WATER CLOSET (ACCESSIBLE): WHITE VITREOUS CHINA, 17" RIM HEIGHT, ELONGATED BOWL, FLOOR MOUNTED, ADA COMPLIANT, WITH MANUAL FLUSH VALVE, 1.28 GPF. OPEN FRONT SEAT. AMERICAN STANDARD, KOHLER, SLOAN OR ZURN.

F2 – WATER CLOSET: WHITE VITREOUS CHINA, 15" RIM HEIGHT, ELONGATED BOWL, FLOOR MOUNTED, WITH MANUAL FLUSH VALVE, 1.28 GPF. OPEN FRONT SEAT. AMERICAN STANDARD, KOHLER, SLOAN OR ZURN.

F3 – URINAL (ACCESSIBLE): WHITE VITREOUS CHINA, 14" LIP PROJECTION, ADA COMPLIANT, WALL HUNG ON CONCEALED CARRIER, WITH MANUAL FLUSH VALVE, 0.5 GPF. AMERICAN STANDARD, KOHLER, SLOAN OR ZURN.

F4 – LAVATORY (ACCESSIBLE): WHITE VITREOUS CHINA, WALL HUNG ON CONCEALED ARM CARRIER, WITH BACKSPLASH, GRID DRAIN, CHROME–PLATED BRASS P–TRAP WITH CLEANOUT PLUG, CHROME PLATED BRASS SUPPLY STOPS AND STAINLESS STEEL BRAIDED RUBBER SUPPLY HOSES. FAUCET SHALL BE CHROME PLATED BRASS CONSTRUCTION, SINGLE LEVER TYPE, WITH STANDARD SPOUT. AND 0.5 GPM AERATOR, ADA COMPLIANT. AMERICAN STANDARD, KOHLER, SLOAN OR ZURN.

F5 – TWO–COMPARTMENT SINK (ACCESSIBLE): MINIMUM 18 GAUGE STAINLESS STEEL, SELF–RIMMING TYPE WITH MOUNTING HARDWARE, WITH TWO 13.5"X16"X6.5" DEEP BASINS, ELKAY MODEL LRAD332265 OR EQUAL, WITH CHROME PLATED BRASS DRAINS WITH REMOVABLE CRUMB CUPS, CHROME–PLATED BRASS P–TRAP WITH CLEANOUT PLUG, CHROME PLATED BRASS SUPPLY STOPS AND STAINLESS STEEL BRAIDED RUBBER SUPPLY HOSES. FAUCET SHALL BE CHROME PLATED BRASS CONSTRUCTION, SINGLE LEVER TYPE, WITH SWIVEL SPOUT. ADA COMPLIANT.

F6 – MOP RECEPTOR: NOMINAL 24X24X12 MOLDED STONE BASIN WITH STAINLESS STEEL RIM GUARD AND CHROME PLATED BRASS GRID DRAIN. FAUCET SHALL BE WALL MOUNTED, CHROME PLATED BRASS WITH INTEGRAL SUPPLY STOPS, VACUUM BREAKER, BLADE HANDLES, HOSE THREADS, BUCKET HOOK AND TOP ANGLE WALL BRACE.

F7 – EMERGENCY EYEWASH (ACCESSIBLE): WALL MOUNTED, SAFETY YELLOW, WITH STAINLESS STEEL BOWL, THERMOSTATIC MIXING VALVE, WALL MOUNTING BRACKET AND SPRAY HEAD COVERS. BRADLEY MODEL S19224T WITH S19–2150 MIXING VALVE, OR EQUAL.

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	NOTES	RIM HEIGHT	COLD WATER		HOT WATER		SOIL/WASTE	
				BRANCH	CONN.	BRANCH	CONN.	BRANCH	CONN.
F1	WATER CLOSET (ACCESSIBLE)	1, 2, 4	16.5"	1"	1"	–	–	4"	4"
F2	WATER CLOSET	2, 4	15"	1"	1"	–	–	4"	4"
F3	URINAL (ACCESSIBLE)	1, 3, 5	17"	1"	3/4"	–	–	2"	1–1/2"
F4	LAVATORY (ACCESSIBLE)	1, 5, 6, 7	34"	1/2"	1/2"	1/2"	1/2"	2"	1–1/4"
F5	TWO COMPARTMENT SINK	1, 9, 10	12"	1/2"	1/2"	1/2"	1/2"	3"	1–1/2"
F6	MOP RECEPTOR	4, 8	12"	1/2"	1/2"	1/2"	1/2"	3"	3"
F7	EMERGENCY EYEWASH (ACCESSIBLE)	1, 5, 11	12"	3/4"	3/4"	3/4"	3/4"	2"	1–1/4"

(1) ADA ACCESSIBLE FIXTURE
(2) 1.28 GPF MANUAL FLUSH VALVE
(3) 0.50 GPF MANUAL FLUSH VALVE
(4) FLOOR MOUNTED FIXTURE
(5) WALL MOUNTED FIXTURE
(6) SINGLE LEVER FAUCET WITH STANDARD SPOUT
(7) 0.5 GPM TAMPER–PROOF AERATOR
(8) WALL MOUNTED FAUCET AT 36" AFF
(9) COUNTER MOUNTED FIXTURE
(10) SINGLE LEVER FAUCET WITH SWIVEL SPOUT
(11) WITH THERMOSTATIC MIXING VALVE

WATER HEATER SCHEDULE

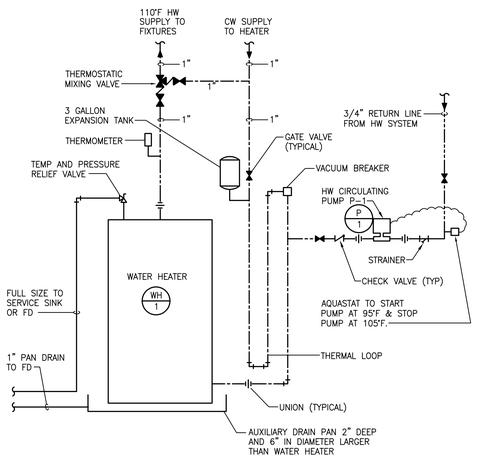
SYMBOL	HEATER SERVICE	HEATER TYPE	HEAT INPUT	STORAGE CAPACITY	RECOVERY RATE (GPH @100°F RISE)	DISCHARGE TEMP (°F)	MANUFACTURER & MODEL	REMARKS
WH–1	DOMESTIC HOT WATER	GAS STORAGE	40 MBH	40 GAL	71	138	A.O. SMITH G12–CADT4040NV	

PUMPS

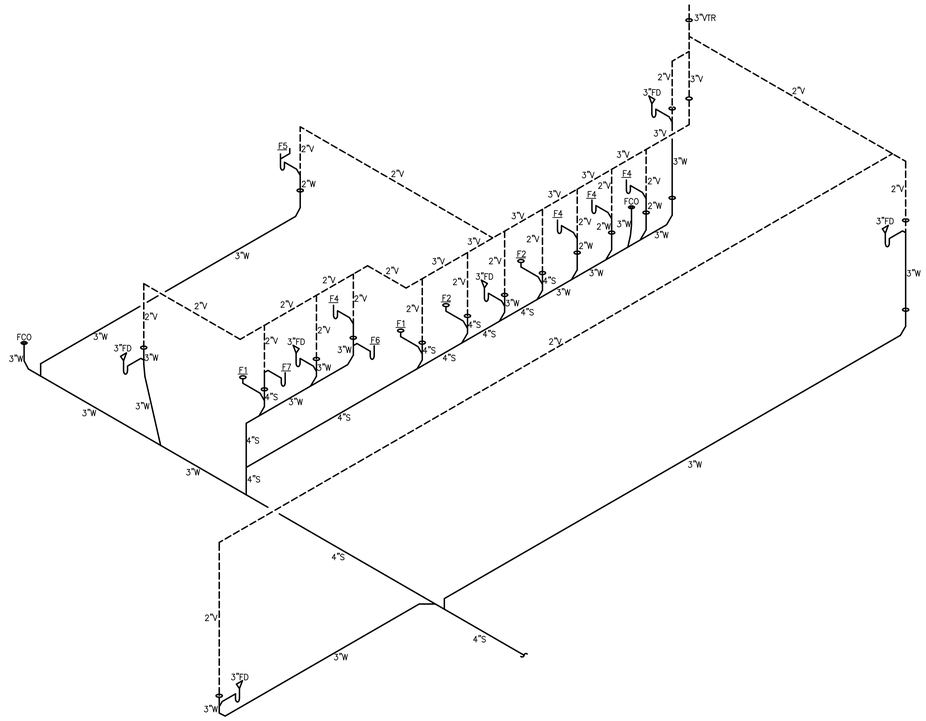
SYMBOL	SERVICE	TYPE	GPM	HEAD FT. H_2O	RPM	MAX. H.P.	ELECTRICAL VOLTS/PH	MODEL	REMARKS
P–1	HOT WATER RECIRC	IN–LINE	5	12	1760	1/8	120/1	GRUNDFOS UP15–42B7	SERVES HEATER WH–1

PLUMBING LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	S,W	SOIL OR WASTE PIPE
	V	VENT PIPE
	CW	COLD WATER PIPE
	HW	HOT WATER PIPE
	HWC	HOT WATER CIRC. PIPE
	FS	FLOOR SINK
	FD	FLOOR DRAIN
	FCO	FLOOR CLEANOUT
	COTG	CLEANOUT TO GRADE
	GV	GATE VALVE
	CKV	CHECK VALVE
	STR	STRAINER
	U	UNION
	–	CONNECT TO EXISTING
	AFF	ABOVE FINISHED FLOOR
	A/C	ABOVE CEILING
	(BF)	BARRIER FREE
	B/F	BELOW FLOOR
	B/G	BELOW GRADE
	F	PLUMBING FIXTURE
	VTR	VENT THRU ROOF



1 P1.01 **DETAIL - WATER HEATER**
NOT TO SCALE



2 P1.01 **SANITARY PIPING RISER DIAGRAM**
NOT TO SCALE

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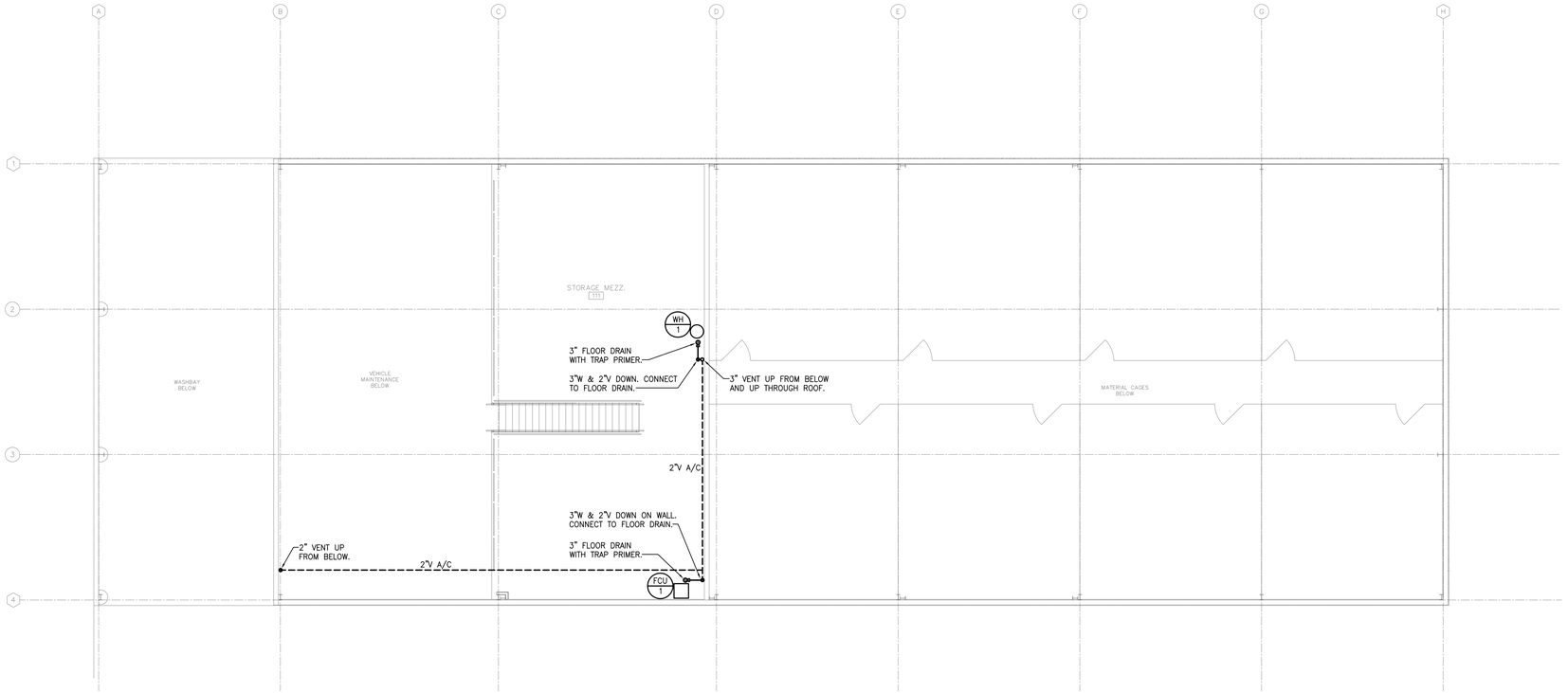
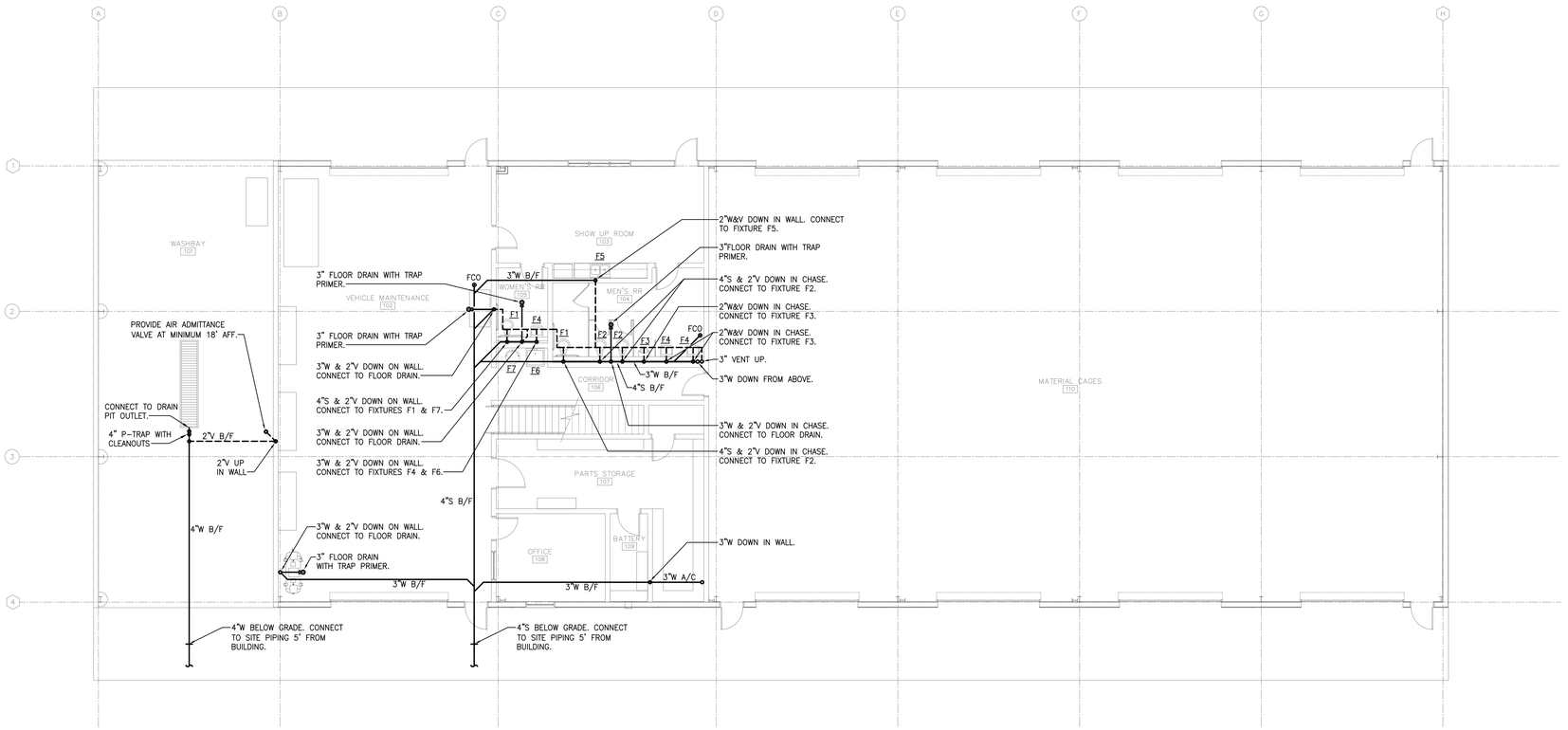
GEORGIA REGISTERED No. 9996 PROFESSIONAL ENGINEER MARTIN S. GILLIAM

SHEET NUMBER
P1.01



2 P2.01 **MEZZANINE PLAN - SANITARY PIPING**
SCALE: 1/8" = 1'-0"



1 P2.01 **FLOOR PLAN - SANITARY PIPING**
SCALE: 1/8" = 1'-0"

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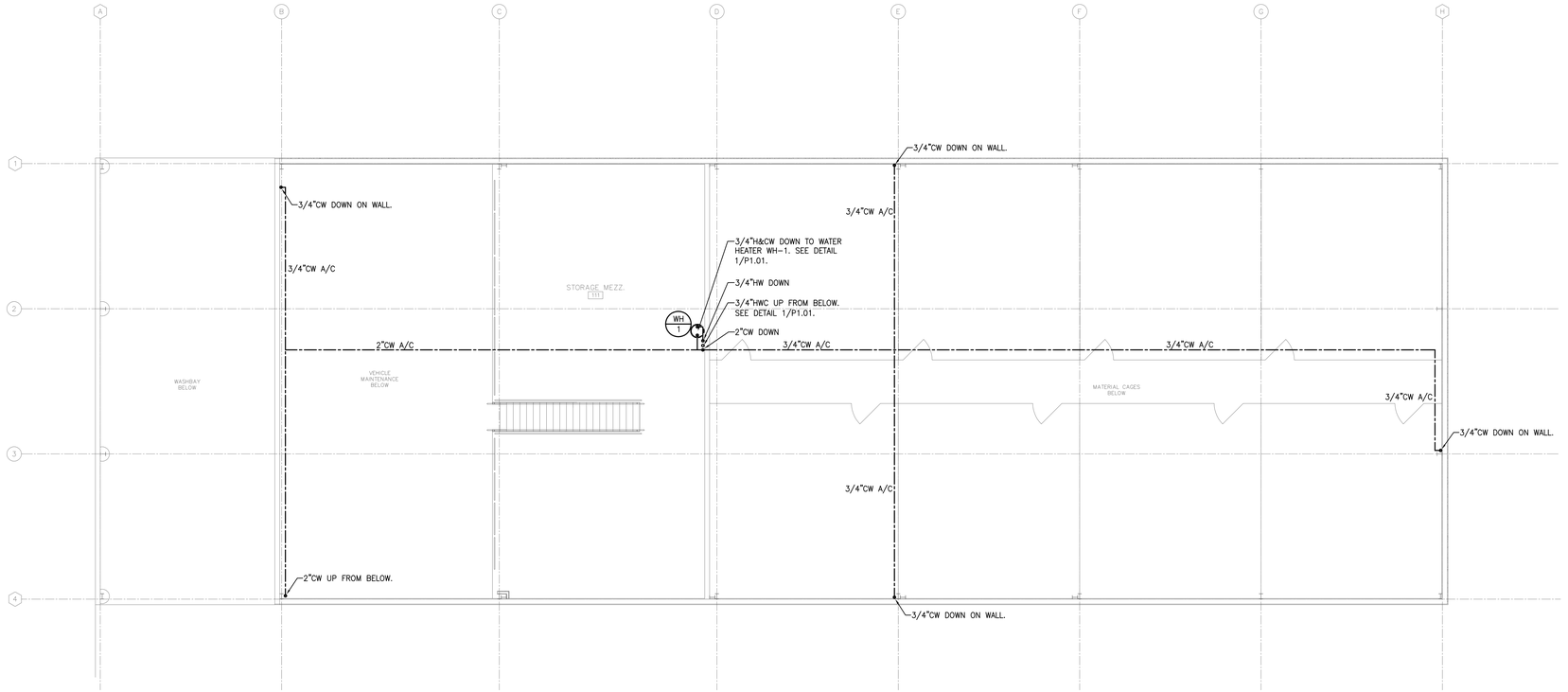
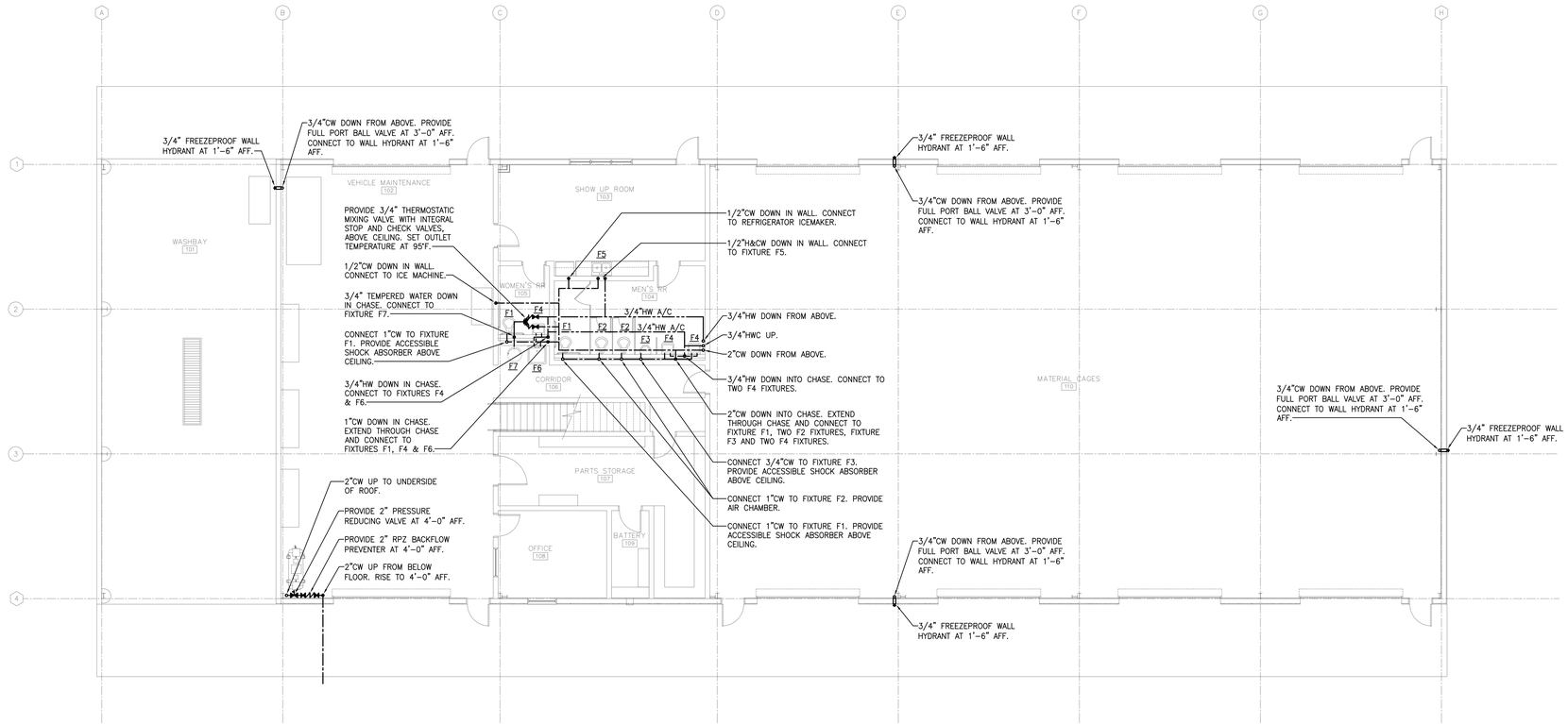
SHEET NUMBER
P2.01



2 P2.02 **MEZZANINE PLAN - WATER PIPING**
SCALE: 1/8" = 1'-0"



1 P2.02 **FLOOR PLAN - WATER PIPING**
SCALE: 1/8" = 1'-0"

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2512
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CITY OF SOCIAL CIRCLE
PUBLIC WORKS DEPARTMENT
New Fleet Facility
166 North Cherokee Road, Social Circle, GA 30025

TURNIPSEED ENGINEERS
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ST. SIMONS ISLAND

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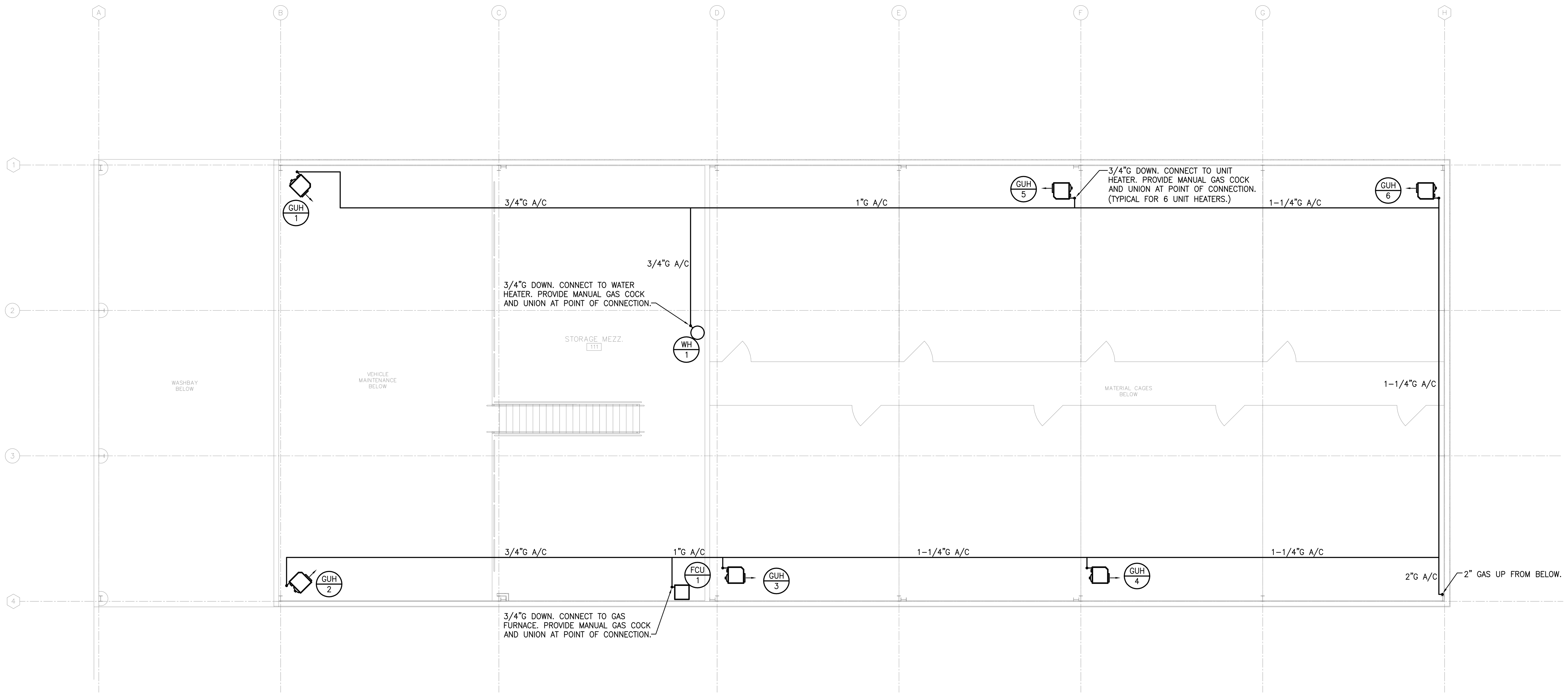
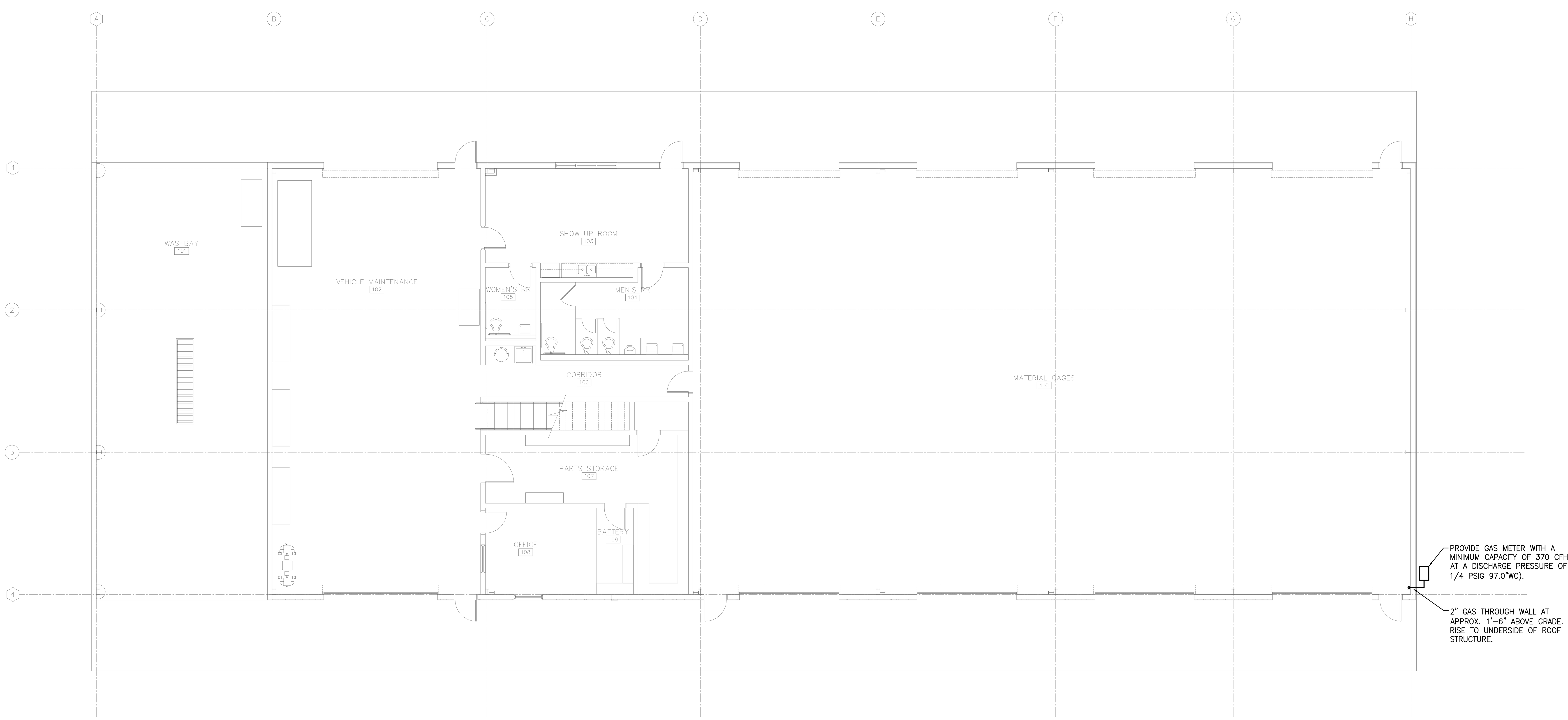
GEORGIA REGISTERED No. 9996 PROFESSIONAL ENGINEER MARTIN S. GELLERSEN

SHEET NUMBER
P2.02



2 P2.03 **MEZZANINE PLAN - GAS PIPING**
SCALE: 1/8" = 1'-0"

NORTH



1 P2.03 **FLOOR PLAN - GAS PIPING**
SCALE: 1/8" = 1'-0"

NORTH

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SHEET NUMBER
P2.03

SPLIT SYSTEM AIR CONDITIONING UNITS

INDOOR UNIT													OUTDOOR UNIT				
AIR HANDLING DATA					COOLING DATA				HEATING DATA								
SYMBOL	SUPPLY CFM	O.A. CFM	E.S.P. IN. W.G.	MAX. HP	TOTAL MBH	SENSIBLE MBH	EAT °F DB	EAT °F WB	INPUT (MBH)	OUTPUT (MBH)	AFUE (%)	MODEL	SYMBOL	AMBIENT AIR TEMP	SEER2	MODEL	REMARKS
FCU-1	1400	350	0.90	3/4	48.5	33.1	80	67	60.0	58.0	97.0	CARRIER 59TP6B80V17-16/CAAMP4817	CU-1	95	17.0	CARRIER 26TPA848	

(1) PROVIDE SEVEN-DAY PROGRAMMABLE WALL THERMOSTAT WITH FAN ON/AUTO CONTROL. SET FAN TO RUN CONTINUOUS DURING OCCUPIED HOURS.

GAS FIRED UNIT HEATERS

SYMBOL	FAN TYPE	CFM	INPUT MBH	OUTPUT MBH	FAN HP	AFUE	MODEL	REMARKS	NOTES
GUH-1	PROP	620	45.00	37.35	1/10	83%	REZNOR UDXE-45	NATURAL GAS FIRED, POWER VENTED	
GUH-2	PROP	620	45.00	37.35	1/10	83%	REZNOR UDXE-45	NATURAL GAS FIRED, POWER VENTED	
GUH-3	PROP	620	45.00	37.35	1/10	83%	REZNOR UDXE-45	NATURAL GAS FIRED, POWER VENTED	
GUH-4	PROP	620	45.00	37.35	1/10	83%	REZNOR UDXE-45	NATURAL GAS FIRED, POWER VENTED	
GUH-5	PROP	620	45.00	37.35	1/10	83%	REZNOR UDXE-45	NATURAL GAS FIRED, POWER VENTED	
GUH-6	PROP	620	45.00	37.35	1/10	83%	REZNOR UDXE-45	NATURAL GAS FIRED, POWER VENTED	

FANS

MARK	SERVICE	TYPE	CFM	ESP IN W.C.	MAX. RPM	MAX. H.P.	DRIVE	MAX. SONES	CONTROLLED BY	MODEL	ACCESSORIES
F-1	TOILET EXH	CEILING FAN	280	0.25	1500	1/10	DIRECT	4.0	SEE NOTE 1	COOK GC-422	SEE NOTES 2 & 3
F-2	TOILET EXH	CEILING FAN	80	0.25	900	1/10	DIRECT	1.3	SEE NOTE 1	COOK GC-146	SEE NOTES 2 & 3
F-3	BATTERY ROOM	WALL PROP	300	0.15	1075	1/20	DIRECT	2.0	WALL SWITCH	COOK 10XW24D103	SEE NOTE 4
F-4	VEHICLE MAINT.	WALL PROP	7500	0.25	1130	1.0	DIRECT	25	WALL SWITCH	COOK 30A11DA	SEE NOTE 5
F-5	WAREHOUSE	WALL PROP	12,500	0.25	487	1.0	BELT	24	WALL SWITCH	COOK 42XMW	SEE NOTE 5
F-6	WAREHOUSE	WALL PROP	12,500	0.25	487	1.0	BELT	24	WALL SWITCH	COOK 42XMW	SEE NOTE 5

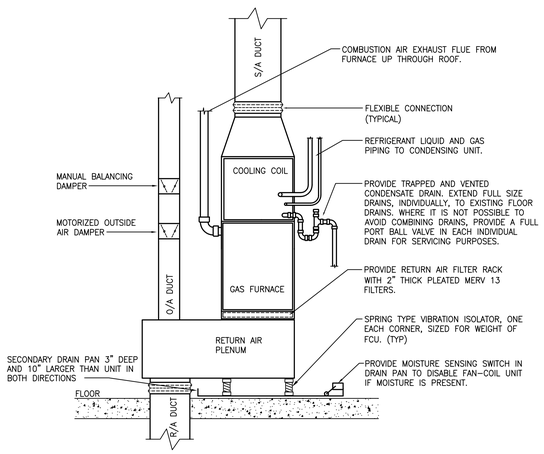
NOTE 1: INTERLOCK FAN TO RUN WHENEVER FCU-1 IS IN OCCUPIED MODE.
NOTE 2: PROVIDE FAN WITH INLET GRILLE, ACOUSTICALLY LINED HOUSING, DISCONNECT AND OUTLET DUCT COLLAR WITH GRAVITY SHUTTER.
NOTE 3: PROVIDE FAN WITH SPEED CONTROLLER (MOUNTED TO FAN HOUSING), FOR BALANCING.
NOTE 4: PROVIDE FAN WITH OSHA INLET GUARD, DISCONNECT SWITCH AND VIBRATION ISOLATION AND GRAVITY BACKDRAFT DAMPER.
NOTE 5: PROVIDE FAN WITH OSHA INLET GUARD, GRAVITY BACKDRAFT DAMPER, ADJUSTABLE DRIVE PULLEY AND DISCONNECT SWITCH.

AIR DISTRIBUTION DEVICES

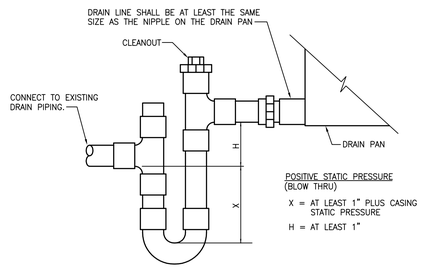
MARK	TYPE	NECK SIZE	OBD	FINISH	MODEL	REMARKS
A	LAY-IN CEILING DIFFUSER	6"ø	YES	OFF-WHITE	PRICE SCD-31-3C, 24X24 LAY-IN, VCR-7 DAMPER	
B	LAY-IN CEILING DIFFUSER	8"ø	YES	OFF-WHITE	PRICE SCD-31-3C, 24X24 LAY-IN, VCR-7 DAMPER	
C	LAY-IN CEILING DIFFUSER	10"ø	YES	OFF-WHITE	PRICE SCD-31-3C, 24X24 LAY-IN, VCR-7 DAMPER	
D	SIDEWALL SUPPLY REGISTER	10X6	YES	OFF-WHITE	PRICE 520D-F-S-A	
E	SIDEWALL SUPPLY REGISTER	16X6	YES	OFF-WHITE	PRICE 520D-F-S-A	
F	LAY-IN RETURN AIR GRILLE	10"ø	NO	OFF-WHITE	PRICE PDDR-3, 24X24 LAY-IN	
G	LAY-IN RETURN AIR GRILLE	14"ø	NO	OFF-WHITE	PRICE PDDR-3, 24X24 LAY-IN	
H	SIDEWALL RETURN AIR GRILLE	16X10	NO	OFF-WHITE	PRICE 530-F-L-A	
J	SIDEWALL TRANSFER GRILLE	16X10	NO	OFF-WHITE	PRICE 530-F-L-A	

HVAC LEGEND

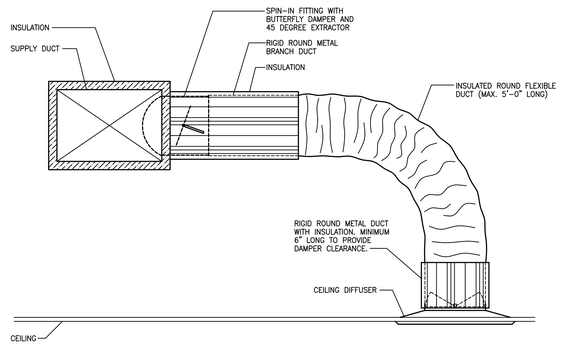
	SLOT DIFFUSER
	SUPPLY DIFFUSER
	RETURN OR EXHAUST GRILLE
AxB	DUCT DIMENSION: A – HORIZONTAL B – VERTICAL
R	DUCT RISE
D	DUCT DROP
	DUCT WITH ACOUSTICAL LINER
	DUCT TURN DOWN
	DUCT TURN UP
	FLEXIBLE DUCT CONNECTION
	FLEXIBLE DUCTWORK
	SPIN-IN FITTING
	FIRE DAMPER
D	CONDENSATE DRAIN LINE
	90° ELBOW WITH TURNING VANES
	OPPOSED BLADE DAMPER (PLAN)
	OPPOSED BLADE DAMPER (SECTION)
SD	SMOKE DETECTOR
Θ_N	NIGHT SETBACK THERMOSTAT
	COMBINATION STARTER/DISCONNECT
Θ	THERMOSTAT
$	FAN SWITCH
X / Y	EQUIPMENT DISIGNATION: X – EQUIPMENT Y – EQUIPMENT NUMBER
X / CFM	AIR DISTRIBUTION DEVICE: X – LETTER DEVICE CFM – AIR QUANTITY IN FT^3/MIN.



1 M1.01 **DETAIL - FURNACE/COIL UNIT FCU-1**
NOT TO SCALE



2 M1.01 **CONDENSATE DRAIN TRAP DETAIL**
NOT TO SCALE



3 M1.01 **CEILING DIFFUSER RUNOUT DETAIL**
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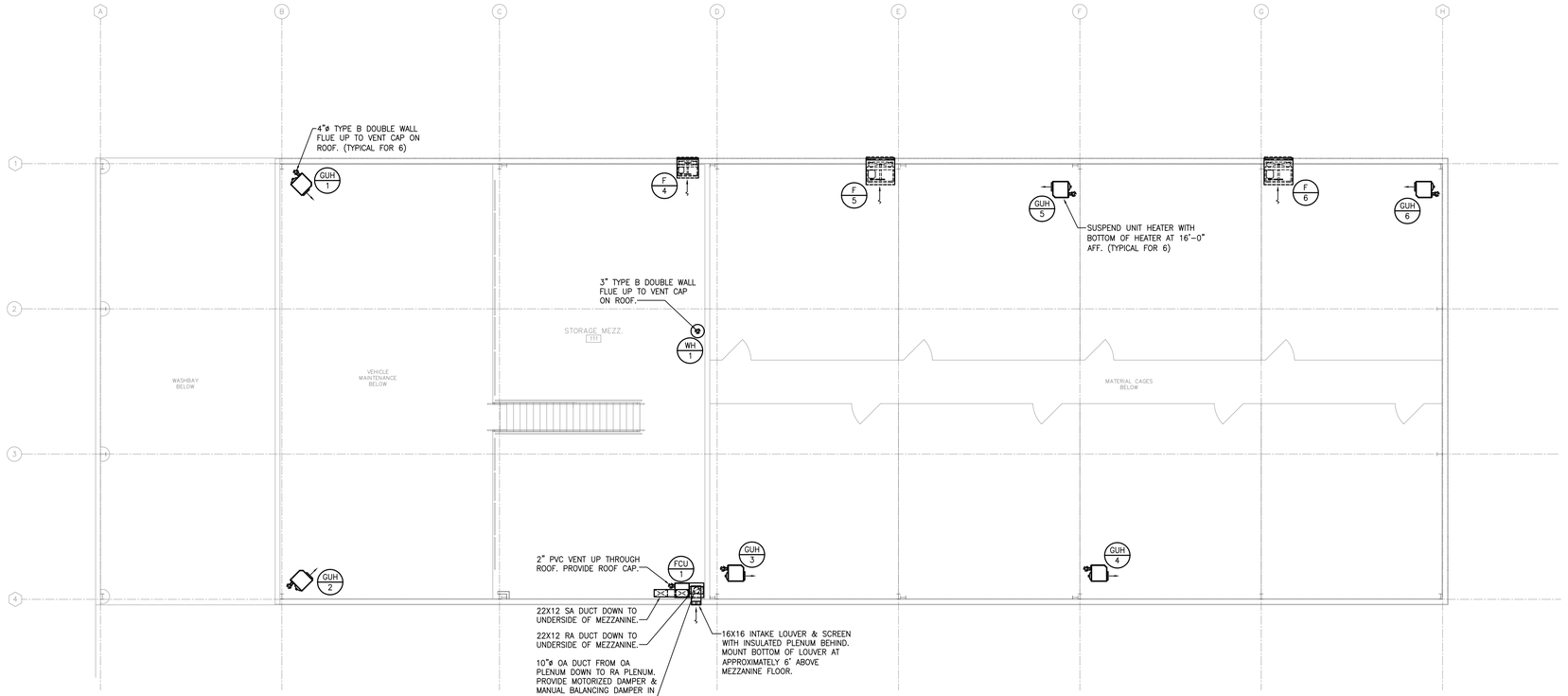
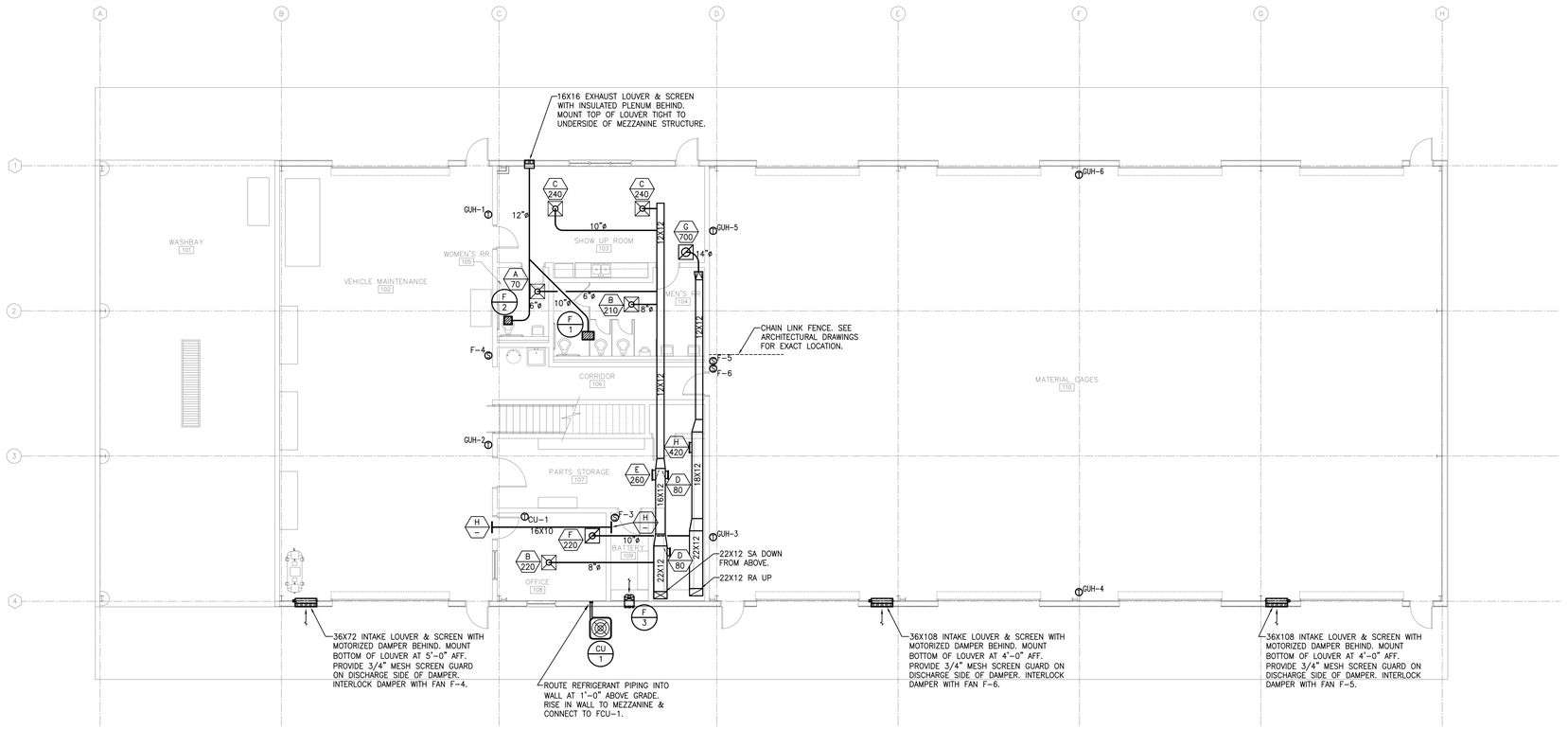


2 M2.01 **MEZZANINE PLAN - HVAC**
SCALE: 1/8" = 1'-0"



1 M2.01 **FLOOR PLAN - HVAC**
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SYMBOLS LEGEND:

ABBREVIATIONS

AF	AMPERES FRAME
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AT	AMPERES TRIP
A.T.S.	AUTOMATIC TRANSFER SWITCH
CCTV	CLOSED CIRCUIT TELEVISION SYSTEM
C	CONTROLLED RECEPTACLE – "GREEN" IN COLOR
D	DEDICATED DEVICE, REQUIRING DEDICATED CIRCUIT
ex	EXISTING TO REMAIN
exr	EXISTING RELOCATED TO LOCATION ON PLAN
FACP	FIRE ALARM CONTROL PANEL
GFCI	GROUND FAULT CIRCUIT INTERRUPTERS
IG	ISOLATED GROUND RECEPTACLE – "ORANGE" IN COLOR
MSGB	MASTER STATION GROUND BUS
M.T.S.	MANUAL TRANSFER SWITCH
TR	TAMPER RESISTANT DEVICE
PTZ	PTZ INDICATES PAN/TILT/ZOOM
WP	DENOTES WEATHERPROOF DEVICE
XX"	INDICATES MOUNTING HEIGHT AFF IN INCHES TO CENTERLINE, EXCEPT AS NOTED

WIRING SYMBOLS

- (ex) EXISTING RACEWAY TO REMAIN
- DENOTES EXISTING EQUIPMENT OR WIRING TO BE REMOVED
- DENOTES EXISTING EQUIPMENT OR WIRING TO BE REMOVED
- RACEWAY CONCEALED IN WALL OR ABOVE CEILING
- RACEWAY EXPOSED
- HEAVY LINE DENOTES NEW EQUIPMENT OR NEW WIRING
- LITE LINE DENOTES EXISTING EQUIPMENT OR EXISTING WIRING
- RACEWAY CONCEALED IN FLOOR SLAB, BELOW SLAB OR GRADE, OR UNDER RAISED ACCESS FLOOR

MISCELLANEOUS SYMBOLS

- CABLE TRAY
- PUSH BUTTON
- CLOCK OUTLET
- (X) KEYNOTE SYMBOL
- [R] RELAY
- (B) BELL OR CHIME
- FLUSH MOUNTED EQUIPMENT AS NOTED

ONE-LINE DIAGRAM SYMBOLS

- TRANSFER SWITCH
- DRAW-OUT CIRCUIT BREAKER
- BOLT-ON CIRCUIT BREAKER
- STR STARTER
- COMBINATION STARTER & FUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- FUSE
- NON-FUSED DISCONNECT SWITCH
- (ST) SHUNT TRIP COIL
- (GF) GROUND FAULT
- C.T. CURRENT TRANSFORMER
- (M) UTILITY REVENUE METER
- TRANSFORMER
- (G) GENERATOR
- (#) MOTOR–NUMERAL INDICATES THE HORSE POWER RATING
- LUG
- [VFD] VARIABLE FREQUENCY DRIVE
- GROUND
- BATTERY
- PULLBOX
- [SPD] SURGE PROTECTIVE DEVICE
- NORMALLY OPEN CONTACT/CLOSES WHEN COIL IS ENERGIZED
- NORMALLY CLOSED CONTACT/OPENS WHEN COIL IS ENERGIZED
- BUS
- PNL --/--V -ø, -W -A --- BRANCH PANEL

LIGHTING SYMBOLS

- FLUORESCENT FIXTURE, TYPE AS NOTED
- FLUORESCENT FIXTURE, TYPE AS NOTED
- SURFACE OR PENDANT MOUNTED FIXTURE, TYPE AS NOTED
- WALL MOUNTED FIXTURE, TYPE AS NOTED
- WALL MOUNTED LUMINARIE ON UN-SWITCHED CIRCUIT WITH EM. BATTERY BACK-UP, TYPE AS NOTED
- WALL MOUNTED LUMINARIE ON SWITCHED CIRCUIT WITH EM. BATTERY BACK-UP, TYPE AS NOTED
- LUMINARIE ON UN-SWITCHED CIRCUIT WITH EMERGENCY BATTERY BACK-UP, TYPE AS NOTED
- LUMINARIE ON SWITCHED CIRCUIT WITH EMERGENCY BATTERY BACK-UP, TYPE AS NOTED
- WALL MOUNTED FIXTURE, TYPE AS NOTED
- DOWNLIGHT, DECORATIVE, SITE OR MISC. FIXTURE, TYPE AS NOTED
- WALLWASH, OR ACCENT FIXTURE, TYPE AS NOTED
- EMERGENCY BATTERY FIXTURE, TYPE AS NOTED
- WALL/CEILING MOUNTED EXIT FIXTURE – BAR INDICATES FACE ORIENTATION – PROVIDE ARROWS AS SHOWN, TYPE AS NOTED
- STEPLIGHT FIXTURE, TYPE AS NOTED
- ADJUSTABLE DIRECTIONAL FIXTURE – ARROW INDICATES DIRECTION, TYPE AS NOTED
- $ SINGLE POLE SWITCH
- $$ TWO SINGLE POLE SWITCHES UNDER COMMON FACEPLATE CONNECTED FOR INNER/OUTER CONTROL OF LAMPS
- $3 THREE WAY SWITCH
- $3$3 TWO THREE-WAY SWITCHES UNDER COMMON FACEPLATE CONNECTED FOR INNER/OUTER CONTROL OF LAMPS FROM MULTIPLE LOCATIONS
- $4 FOUR WAY SWITCH
- $D M WALL BOX DIMMER
- $T DIGITAL TIMER SWITCH – SET TIMER FOR 2-HOURS
- $MC MOMENTARY CONTACT SWITCH
- OCCUPANCY SENSOR FOR LIGHTING CONTROL, TYPE AS SCHEDULED.
- 360° OCCUPANCY SENSOR FOR LIGHTING CONTROL, TYPE AS SCHEDULED.
- (PP) POWER PACK – TYPE AS SCHEDULED
- (P) PHOTO CELL
- [TC] TIME CLOCK
- [P]xx PRESET STATION FOR FOR LTG CNTRLS – BASIS OF DESIGN IS EATON: GREENGATE# RC-*T*B SUB-SCRIBT DENOTES NUMBER OF BUTTIONS
- [RC] ROOM CONTROLLER – BASIS OF DESIGN IS EATON: GREENGATE# RC3D-PL-N SUB-SCRIBT DENOTES ROOM NUMBER ASSOCIATED WITH EACH INDIVIDUAL ROOM CONTROLLER.
- [IO] INPUT/OUTPUT DEVICE FOR LTG CNTRLS – BASIS OF DESIGN IS EATON: GREENGATE# OCC-RJ45
- [DS] DAYLIGHT SENSOR FOR LTG CNTRLS – BASIS OF DESIGN IS EATON: GREENGATE# DSRC-FMOIR
- [RS] RECEPTACLE SWITCHPACK FOR LTG CNTRLS – BASIS OF DESIGN IS EATON: GREENGATE# SPRC-R-20-120

GROUNDING SYMBOLS

- GROUND BUS-TYPE AS NOTED
- DRIVEN GROUND ROD
- — G — CONDUCTOR IN RACEWAY-TYPE AND SIZE AS NOTED
- BOND CONNECTION

COMMUNICATIONS SYMBOLS

- TELEPHONE OUTLET
- W WALL TELEPHONE OUTLET MOUNTED 48" A.F.F.
- DATA OUTLET
- COMBINATION VOICE/DATA OUTLET
- DATA CEILING OUTLET
- TYPICAL: PROVIDE 2-GANG BOX WITH 1-GANG PLASTER RING AND (1) 1.00" CONDUIT WITH PULL STRING STUBBED UP ABOVE ACCESSIBLE CEILING TO CABLE TRAY IN CORRIDOR WITH A SWEEPING 90" ELBOW AND NYLON BUSHINGS

CATV SYMBOLS

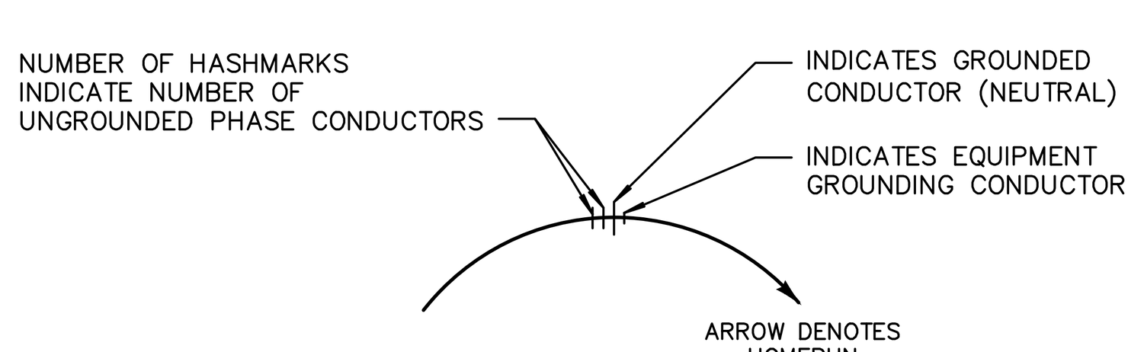
- TV TV OUTLET
- TV TV CEILING OUTLET
- TYPICAL: PROVIDE 2-GANG BOX WITH 1-GANG PLASTER RING AND (1) 0.75" CONDUIT WITH PULL STRING STUBBED UP ABOVE ACCESSIBLE CEILING IN CORRIDOR WITH A SWEEPING 90" ELBOW AND NYLON BUSHINGS

POWER SYMBOLS

- WALL/CEILING MOUNTED LOW VOLTAGE JUNCTION BOX
- WALL/CEILING MOUNTED JUNCTION BOX – COORDINATE EXACT MOUNTING LOCATION WITH MANUFACTURER RECOMMENDATIONS AND ARCHITECT PRIOR TO ROUGH-IN, SUBSCRIPT DENOTES TYPE:
  - GD = GARBAGE DISPOSAL
  - DW = DISHWASHER
  - HD = HOOD
  - PS = PROJECTION SCREEN
  - MD = MOTORIZED DOOR
  - SL = SHORE LINE
  - FV = FLUSH VALVE
  - AF = AUTO FAUCET
  - HW = INSTA-HOT WATER DISPENSER
- [J] JUNCTION BOX MOUNTED UNDER RAISED FLOOR OR CAST IN CONCRETE FLOORING. SUBSCRIPT DENOTES
- POWER AND VOICE/DATA CONNECTION
- PULLBOX
- CONDUIT STUBBED OUT ABOVE ACCESSIBLE CEILING
- SLEEVE THROUGH WALL ABOVE CEILING.
- SLEEVE THROUGH FLOOR-SIZE NOTED ON PLANS
- NEW SURFACE MOUNTED PANELBOARD
- NEW FLUSH MOUNTED PANELBOARD
- EXISTING SURFACE MOUNTED PANELBOARD
- EXISTING FLUSH MOUNTED PANELBOARD
- EQUIPMENT AS NOTED
- [T] TRANSFORMER-TYPE AND CAPACITY AS NOTED
- DISCONNECT SWITCH – TYPE AS NOTED. 30/3/F/WP INDICATES 30A, 3-POLE, F=FUSED/NF=NON-FUSED, WP=WEATHERPROOF
- COMBINATION STARTER – TYPE AS NOTED.
- MOTOR STARTER-TYPE AS NOTED.
- MOTOR
- PLYWOOD EQUIPMENT BACKBOARD
- SURFACE RACEWAY
- SINGLE RECEPTACLE
- DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE CEILING MOUNTED
- DUPLEX RECEPTACLE MOUNTED 8" ABOVE COUNTERTOP EXCEPT AS NOTED
- DOUBLE DUPLEX RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE MOUNTED MOUNTED 8" ABOVE COUNTERTOP, EXCEPT AS NOTED
- GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE
- GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE MOUNTED 8" ABOVE COUNTERTOP, EXCEPT AS NOTED
- GROUND FAULT CIRCUIT INTERRUPTER DOUBLE DUPLEX RECEPTACLE
- GROUND FAULT CIRCUIT INTERRUPTER DOUBLE DUPLEX RECEPTACLE MOUNTED 8" ABOVE COUNTERTOP, EXCEPT AS NOTED
- SPECIAL PURPOSE RECEPTACLE – TYPE AS NOTED
- CAST-IN-PLACE MULTI-SERVICE ASSEMBLY – TYPE AS SPECIFIED BY LOW VOLTAGE CONSULTANT.
- MULTI-SERVICE ASSEMBLY FLOOR OUTLET – BASIS OF DESIGN: WIREMOLD EFBFF-OG SERIES COORDINATE FLANGED COVER WITH BOX REQUIREMENTS INDICATED BY TELECOMMUNICATIONS CONSULTANT. COLOR AND FINISH AS DIRECTED BY ARCHITECT. PROVIDE DUPLEX RECEPTACLE
- EMERGENCY POWER OFF STATION
- $M MOTOR RATED SWITCH

FIRE ALARM SYMBOLS

- (F) CEILING MOUNTED SMOKE DETECTOR
- [F]----- DUCT MOUNTED SMOKE DETECTOR
- (H) CEILING MOUNTED HEAT DETECTOR
- COMBINATION AUDIBLE/VISUAL TYPE NOTIFICATION APPLIANCE-WALL MOUNTED: ADJACENT NUMBER INDICATES CANDELA RATING, 75 CANDELAS EXCEPT AS NOTED
- MANUAL PULLSTATION BENEATH NOTIFICATION APPLIANCE
- [F] MANUAL PULL STATION
- VISUAL DEVICE-WALL MOUNTED. ADJACENT NUMBER INDICATES CANDELA RATING, 75 CANDELAS EXCEPT AS NOTED.
- [FS] WATER FLOW SWITCH
- [VS] WATER VALVE POSITION SUPERVISORY SWITCH
- [MM] MONITOR MODULE ADDRESSABLE MODULE
- [CM] CONTROL MODULE ADDRESSABLE MODULE
- [DH] DOOR HOLD/RELEASE
- [RANN] REMOTE ANNUNCIATOR PANEL
- [RANN] FLUSH MOUNTED REMOTE ANNUNCIATOR PANEL
- [FACP] FIRE ALARM CONTROL PANEL
- [FACP] FLUSH MOUTNED FIRE ALARM CONTROL PANEL



NOTES:

1. NO HASHMARKS INDICATE (1) UNGROUNDED PHASE CONDUCTOR, (1) GROUNDED CONDUCTOR (NEUTRAL), AND (1) EQUIPMENT GROUNDING CONDUCTOR IN 1/2" CONDUIT.
2. 15A & 20A MULTI-WIRE CIRCUITS WITH A COMMON GROUNDED CONDUCTOR (NEUTRAL) SHALL BE PROVIDED WITH A #10 AWG GROUNDED CONDUCTOR (NEUTRAL).

1 / E0.01 WIRING SYMBOLOGY - DETAIL

SCALE: NOT TO SCALE

GENERAL NOTES:

1. CONTRACTOR SHALL PROVIDE ALL LABOR, TOOLS, AND MATERIAL REQUIRED FOR A COMPLETE AND FULLY OPERATIONAL INSTALLATION, AS DESCRIBED ON THE DRAWINGS.
2. CONTRACTOR'S WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.
3. CONTRACTOR SHALL COMPLY WITH LOCAL CODES ENFORCED BY THE LOCAL INSPECTION AUTHORITY.
4. CONTRACTOR SHALL COMPLY WITH THE EDITION OF THE NATIONAL ELECTRICAL CODE BEING ENFORCED FOR THIS PROJECT BY THE LOCAL INSPECTION AUTHORITY.
5. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS AND ORDINANCES.
6. CONTRACTOR SHALL PROVIDE ALL NEW MATERIALS THAT COMPLY WITH THE INDICATED STANDARDS.
7. ALL MATERIALS PROVIDED SHALL BE U/L LABELED OR U/L LISTED, EXCEPT WHERE THE MATERIAL IS OF A TYPE NOT INCLUDED IN THE U/L LISTING SERVICE, IN WHICH CASE THE MATERIAL SHALL COMPLY WITH OTHER APPLICABLE INDUSTRY STANDARDS AND THE CONTRACTOR SHALL PROVIDE ANY EXAMINATIONS OR CERTIFICATIONS REQUIRED BY THE LOCAL INSPECTION AUTHORITY IN LIEU OF U/L LISTINGS.
8. ALL MATERIAL SHALL BE OF A SUITABLE TYPE AND RATED FOR THE INTENDED USE, AND SHALL BE INSTALLED IN CONFORMANCE WITH THE INSTRUCTIONS AND RECOMMENDATIONS OF THE MANUFACTURER.
9. THE DRAWINGS ARE SCHEMATIC IN NATURE AND DO NOT SHOW ALL OF THE REQUIRED DETAILS OF THE WORK. ALL MATERIALS CUSTOMARILY CONSIDERED TO BE A PART OF THE ELECTRICAL INSTALLATION AND REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION SHALL BE PROVIDED WITHOUT ADDITIONAL COST TO THE OWNER.
10. NO WORK IN HATCHED AREAS UNLESS NOTED OTHERWISE.
11. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND QUANTITIES OF DEVICES AND LIGHT FIXTURES. IF CONFLICTING LOCATIONS OR QUANTITIES ARE INDICATED THE ARCHITECTURAL DRAWINGS TAKE PRECEDENCE.
12. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT. IF CONFLICTING LOCATIONS ARE INDICATED THE MECHANICAL DRAWINGS TAKE PRECEDENCE.
13. CONTRACTOR SHALL PROVIDE FINAL ELECTRICAL CONNECTIONS FOR ALL FURNITURE BASE FEEDS. FURNITURE ELECTRICAL WHIPS AND POWER-POLES SHALL BE PROVIDED BY TENANT'S FURNITURE VENDOR, UNLESS NOTED OTHERWISE. WORKSTATIONS SHOWN FOR REPRESENTATIONAL PURPOSES ONLY. CONTRACTOR SHALL COORDINATE WITH TENANT'S FURNITURE VENDOR FOR EXACT LOCATION OF WORKSTATIONS AND CORRESPONDING POWER COMMUNICATION DEVICES PRIOR TO ROUGH-IN.
14. THE OWNER ASSUMES ALL RESPONSIBILITY FOR THEIR OWN LOW VOLTAGE VOICE/DATA VENDOR/CONTRACTOR. COMMUNICATION DEVICES AND WIRING SHALL MEET ALL APPLICABLE CODES. THE OWNER'S LOW VOLTAGE VOICE/DATA CONTRACTOR, WHICH SHALL PERMIT THEIR WORK SEPARATELY, MUST HANG ALL CABLES FROM DEDICATED WIRE HANGERS ATTACHED TO THE SLAB. VOICE/DATA WIRING SHALL CONFORM TO NFPA 90A FOR NFPA (UL 910) PLENUM RATED CABLE.
15. SCALE OF DRAWINGS – MEASUREMENTS AND/OR LOCATIONS SHALL NOT BE SCALED FROM THE CONSTRUCTION DRAWINGS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
16. UNLESS NOTED OR SPECIFIED OTHERWISE, ALL EXTERIOR CONDUIT (BELOW GRADE) SHALL BE PVC SCHEDULE 40, ALL EXTERIOR CONDUIT (ABOVE GRADE) SHALL BE RIGID GALVANIZED STEEL WITH THREADED FITTINGS.
17. SOUND WALL DEVICE PLACEMENT: NO BACK TO BACK OR SAME STUD CAVITY PLACEMENT OF RECESSED WALL DEVICES – REFER TO ARCHITECTURAL SOUND WALL DETAILS FOR ADDITIONAL DEVICE INSTALLATION REQUIREMENTS FOR ALL SOUND WALLS..
18. ALL NONMETALLIC RACEWAYS LISTED FOR DIRECT BURIAL WITH CONCRETE ENCASEMENT SHALL HAVE A MINIMUM OF 3.00" THICK CONCRETE ENCASEMENT OVER ALL CONDUITS. POWER AND COMMUNICATIONS CONDUITS SHALL BE SEPARATED BY A MINIMUM OF 6" OF CONCRETE. CONDUITS OF THE SAME SYSTEM SHALL BE SEPARATED BY A MINIMUM OF 2" OF CONCRETE. SUPPORT CONDUITS ON SPACERS, ANCHOR AND TIE CONDUITS TO PREVENT DISPLACEMENT WHEN CONCRETE IS POURED. POUR CONCRETE AGAINST UNDISTRUBED FILL AND TRIMMED TRENCH WALLS OR FORMS AS NEEDED. VIBRATE CONCRETE TO ELIMINATE VOIDS. DO NOT ALLOW EXCESS CONCRETE TO BE DISPOSED OF IN TRENCHES.
19. ALL NONMETALLIC RACEWAYS LISTED FOR DIRECT BURIAL WITHOUT CONCRETE ENCASEMENT SHALL BE BURIED AS LISTED BELOW:
    - MINIMUM OF 24" FOR ALL LOCATIONS UNDER STREETS, ROADS, DRIVEWAYS, AND PARKING OTS.
    - MINIMUM OF 18" FOR ALL OTHER LOCATIONS ON SITE.
20. FLEXIBLE METAL CONDUIT (FMC) IS PERMITTED ONLY WHERE CONCEALED ABOVE SUSPENDED CEILINGS FOR CONNECTIONS OF LIGHT FIXTURES, TELE-POWER POLES, AND SIMILAR EQUIPMENT AND SHALL NOT EXCEED 3'-0" IN LENGTH.
21. LIQUID-TIGHT FLEXIBLE METAL CONDUIT (LFMC) SHALL BE USED FOR ALL CONNECTIONS TO VIBRATING EQUIPMENT, SUCH AS MOTORS AND TRANSFORMERS, AND SHALL NOT EXCEED 3'-0" IN LENGTH. USE FMC FOR THESE CONNECTIONS IN PLENUM SPACES.

PCE
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FIXTURE SCHEDULE:

TYPE	DESCRIPTION	CONE/LENS/LOUVER	LAMPS	NOTES	BASIS OF DESIGN
F1	4'-0" LONG LINEAR L.E.D. CHAIN HUNG STRIP FIXTURE WITH FIELD SELECTABLE CCT, INTEGRAL DIMMING DRIVER AND WIRE GUARD	FULL FROST ACRYLIC LENS / WIDE DISTRIBUTI9ON	(1) 32.1W LED 3500°K 4,586 LUMENS	3,4,5	COOPER: METALUX# 4SNX-48SL-LW-UNV-CC83-CD-1 / WG-SNX/SN-4FT-B
F1A	4'-0" LONG LINEAR L.E.D. SURFACE MOUNTED STRIP FIXTURE WITH FIELD SELECTABLE CCT, INTEGRAL DIMMING DRIVER WIRE GUARD	FULL FROST ACRYLIC LENS / WIDE DISTRIBUTI9ON	(1) 32.1W LED 3500°K 4,586 LUMENS	3,5	COOPER: METALUX# 4SNX-48SL-LW-UNV-CC83-CD-1 / WG-SNX/SN-4FT-B
F2	2'x2' RECESSED L.E.D. LENSED FLAT PANEL FIXTURE WITH INTEGRAL DIMMING DRIVER	WHITE FROST LENS	(1) 31W LED 3500°K 3,440 LUMENS	3,5	COOPER: METALUX# 22FPSL2SCT3
P1	PENDANT MOUNTED L.E.D. AREA LIGHTING FIXTURE WITH INTEGRAL MOTION SENSOR AND DRIVER, IP-66 RATED	CONCENTRATED DISTRIBUTION	(1) 124.7W L.E.D. 15,000 LUMENS 3000°K	2,3,4,6	COOPER: McGRAW-EDISON# TT-D7-830-*-CQ-STM-*-*-SPB4
P2	PENDANT MOUNTED L.E.D. AREA LIGHTING FIXTURE WITH INTEGRAL DRIVER, IP-66 RATED AND BIRD GUARD	CONCENTRATED DISTRIBUTION	(1) 74.7W L.E.D. 10,000 LUMENS 4000°K	2,3,4,7	COOPER: McGRAW-EDISON# TT-D5-740-*-MQ-STM-*-*-TT/BG-UP
W1	EXTERIOR, WALL MOUNTED, L.E.D. AREA LIGHT FIXTURE WITH INTEGRAL DRIVER, EMERGENCY BATTERY PACK AND U.L. LISTED FOR WET LOCATION	ACRYLIC REFRACTIVE LENS TYPE IV DISTRIBUTION	(1) 16W L.E.D. 2,745 LUMENS 4000°K	2,3,4	COOPER: LUMARK# AXCS2ARL-CBP
W2	EXTERIOR, DUAL HEAD, L.E.D. ADJUSTABLE FLOOD LIGHT FIXTURE WITH FIELD SELECTABLE CCT, INTEGRAL DRIVER AND U.L. LISTED FOR WET LOCATION	N/A	(2) 11.8W L.E.D. 1,100 LUMENS 4000°K	2,3,4,5	COOPER: HALO# FT28VC
EB1	SURFACE MOUNTED, DUAL HEAD EMERGENCY BATTERY PACK FIXTURE WITH NICKEL-CADMIUM BATTERY	N/A	(2) 3.6V 1.5W LED	2,4	COOPER: SURE-LTES# APSQLED30
EB2	SURFACE MOUNTED, NEMA-4X DUAL HEAD EMERGENCY BATTERY PACK FIXTURE WITH NICKEL-CADMIUM BATTERY	N/A	(2) 12V 15W LED	2,3	EMERGI-LITE# 12HP-N40-2-L15-DA
X1	POLYCARBONATE L.E.D. EXIT FIXTURE WITH INTEGRAL EMERGENCY BATTERY BACK	RED LETTERS	LED	1,2	COOPER: SURE-LITES# LPX7

NOTES:

1. CHEVRON AND FACE CONFIGURATION, AS INDICATED ON DRAWINGS.
2. COLOR/FINISH, AS DIRECTED BY ARCHITECT.
3. PROVIDE ALL NECESSARY PARTS AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.
4. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.
5. COORDINATE FIELD SELECTABLE CCT & LUMEN OPTIONS WITH OWNER.
6. FIXTURE SELECTION IS BASED ON FIXTURE MOUNTING HEIGHT AT 25'-0" A.F.F.
7. FIXTURE SELECTION IS BASED ON FIXTURE MOUNTING HEIGHT AT 20'-0" A.F.F.

OCCUPANCY SENSOR SCHEDULE

TYPE	DESCRIPTION	NOTES	DESIGN STANDARD
a	LINE VOLTAGE, DIMMING WALL SWITCH – DUAL TECHNOLOGY, SINGLE RELAY, MANUAL ON	1	COOPER: GREENGATE# VSW-D-010
b	LINE VOLTAGE, WALL SWITCH – DUAL TECHNOLOGY, SINGLE RELAY, MANUAL ON	1	COOPER: GREENGATE# ONW-D-1001-MV
c	LOW VOLTAGE, CEILING MOUNT – DUAL TECHNOLOGY, SINGLE RELAY, EXTENDED RANGE WITH ISOLATED FORM C RELAY FOR BAS INTERFACE	1,2,3	COOPER: GREENGATE# OAC-DT-2000-R

NOTES:

1. DEVICE COLOR AS SPECIFIED BY ARCHITECT.
2. PROVIDE POWER PACKS AS INDICATED ON DRAWINGS. SINGLE RELAY POWER PACK MODEL# SP20-MV
3. COORDINATE INPUT TO LIGHTING CONTROL EQUIPMENT WITH EQUIPMENT VENDOR PRIOR TO ORDERING.

COMcheck Software Version 4.1.5.5

Interior Lighting Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	New Fleet Facility for Social Circle
Project Type:	New Construction

Construction Site:
Social Circle, GA 30025

Owner/Agent:
Millard, Inc. Architects & Engineers
580 Colonial Park Drive
Roswell, GA 30075
770-993-2034

Designer/Contractor:
Christopher Phillips
Phillips Consulting Engineers, LLC
260 Beckenham Walk Drive
Dacula, GA 30019
404-593-0903

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Reduced Lighting Power, 1.0 credit

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Office	3700	0.74	2731
2-Warehouse	7800	0.59	4633
		Total Allowed Watts =	7364

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Office				
LED 2: F1: LED Strip Fixture: Other:	1	18	32	578
LED 2 copy 1: F1A: LED Strip Fixture: Other:	1	11	32	353
LED 4: F2: Recessed LED Panel: Other:	1	21	31	651
2-Warehouse				
LED 1: P1: LED Pendant Area Light: Other:	1	24	125	2993
			Total Proposed Watts =	4575

Interior Lighting PASSES: Design 38% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COM*check* Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Christopher W. Phillips — Name - Title
[signature] — Signature
10/14/2025 — Date

Project Title: New Fleet Facility for Social Circle — Report date: 10/13/25
Data filename: C:\Phillips Consulting Dropbox\Projects\2025\25115 - Social Circle Fleet Facility\Studies\COMCheck_25115.cck — Page 1 of 5

PROJECT NUMBER	2512
DATE	03/12/2026
DRAWN BY	CAD
APPROVED BY	RVG
REVISIONS	

NEW FLEET FACILITY FOR SOCIAL CIRCLE
..., SOCIAL CIRCLE, GEORGIA 30025

TURNIPSEED ENGINEERS — ATLANTA, AUGUSTA, ST. SIMONS ISLAND

Millard, Inc.
Architects & Engineers
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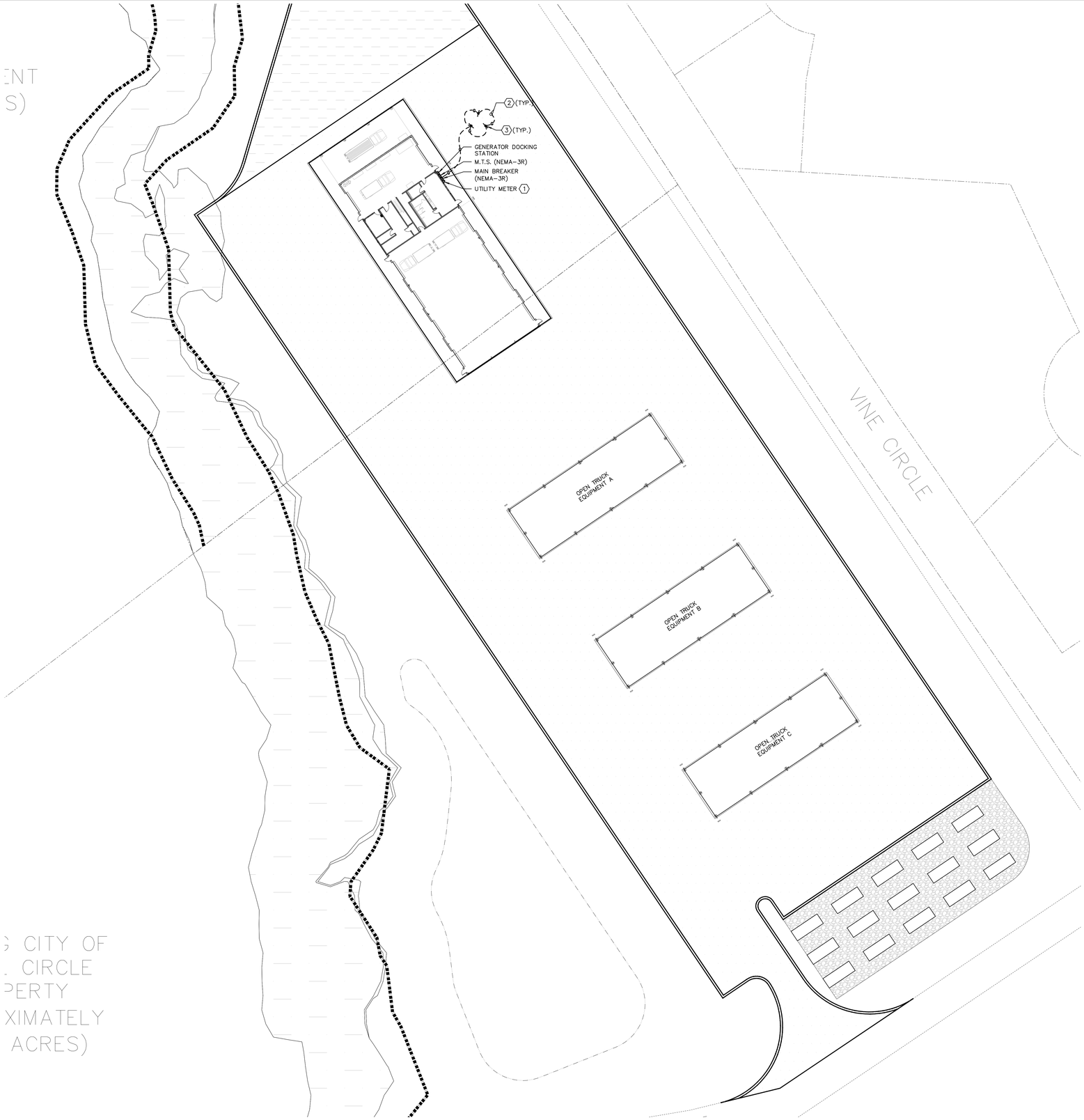
770-993-2034

GEORGIA REGISTERED No. 025946 PROFESSIONAL ENGINEER CHRISTOPHER W. PHILLIPS

SHEET NUMBER
E0.01



1 / E1.01 **ELECTRICAL SITE PLAN**
SCALE: 1" = 30'

KEYNOTES: (THIS SHEET ONLY, EXCEPT AS NOTED)

1. COORDINATE UTILITY METER REQUIREMENTS WITH UTILITY COMPANY PRIOR TO ROUGH-IN AND PROVIDE ALL REQUIRED BACK BOXES, WEATHERHEADS AND EQUIPMENT REQUIRED BY UTILITY COMPANY.
2. #4/0 BARE COPPER GROUNDING ELECTRODE CONDUCTOR. (TYPICAL)
3. 10'-0" LONG 3/4" DIAMETER COPPER GROUND ROD - MINIMUM OF 10'-0" APART. CAD WELD TO GROUNDING ELECTRODE CONDUCTOR. (TYPICAL)

PRIOR TO COMMENCING ANY EXCAVATION, CALL TO GET ALL UTILITIES MARKED. THE CONTRACTOR MUST NOTIFY THE UTILITIES PROTECTION CENTER (UPC) AND PROVIDE A MINIMUM OF 72-HOUR NOTICE TO ALLOW LOCATION OF EXISTING UTILITIES. NO DIGGING IS PERMITTED UNTIL THE UPC HAS MARKED ALL EXISTING UTILITY LOCATIONS.

ANY DAMAGES SHALL BE PROMPTLY REPAIRED AT THE CONTRACTOR'S EXPENSE.

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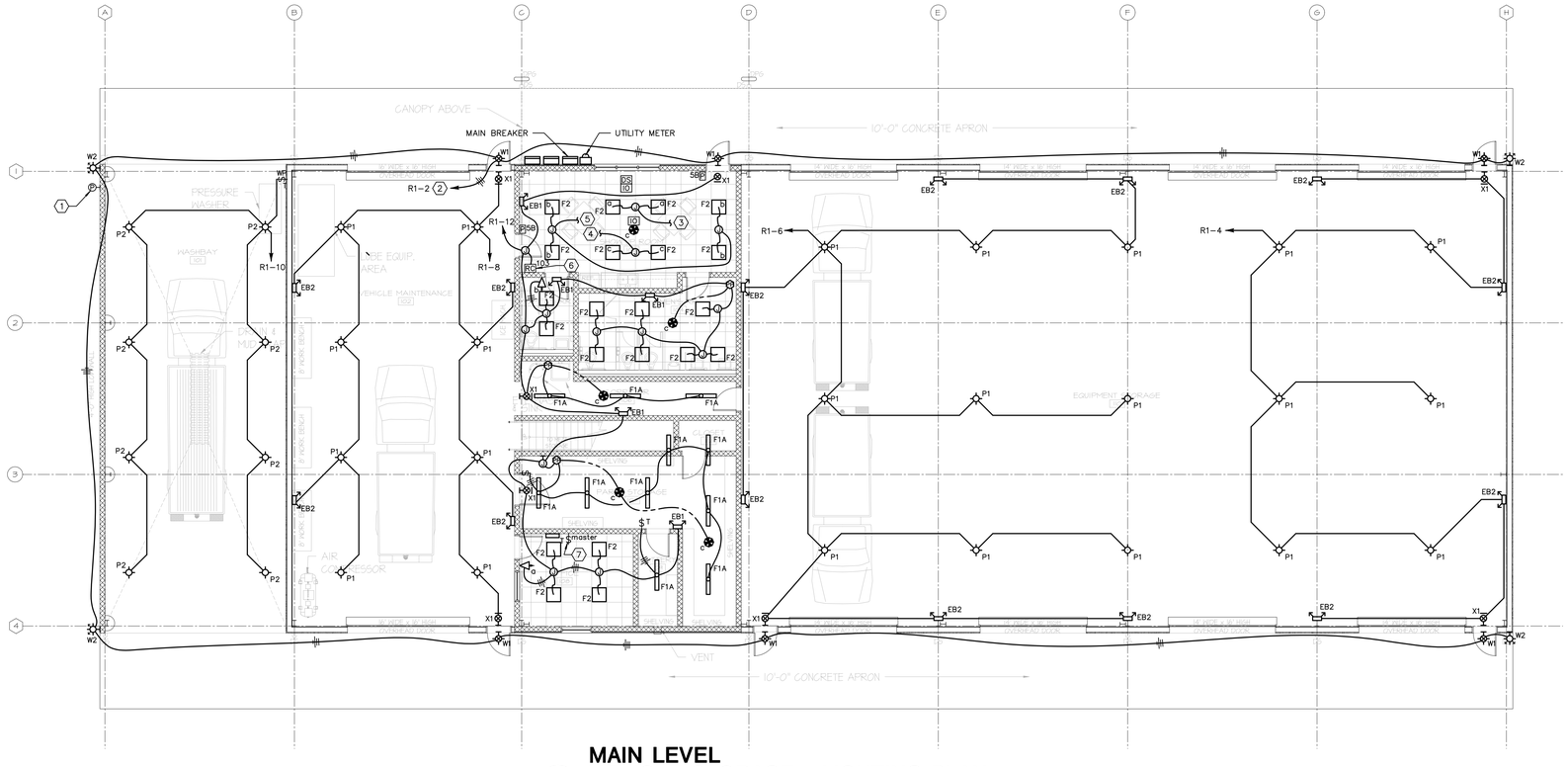
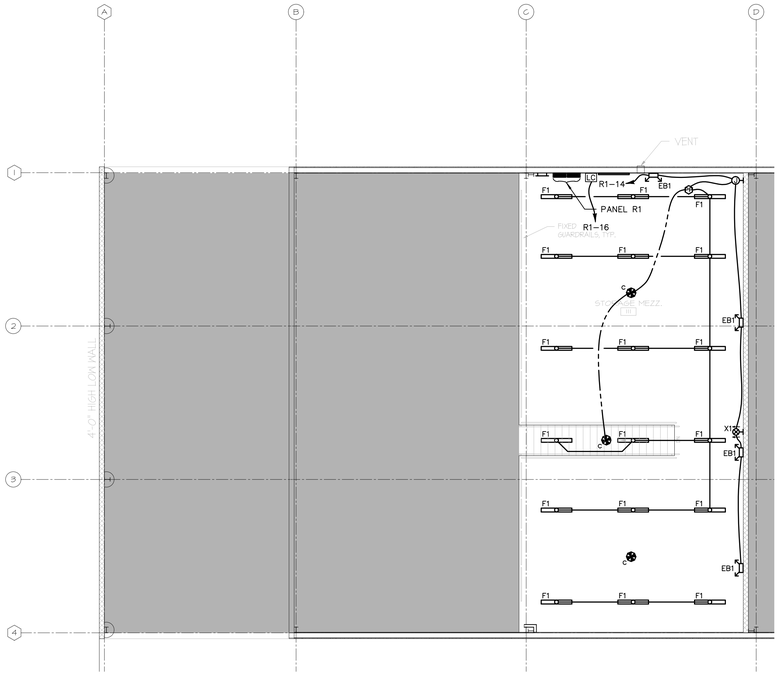
GEORGIA REGISTERED No. 027846 PROFESSIONAL ENGINEER RAPHAEL W. PHILLIPS

SHEET NUMBER
E1.01



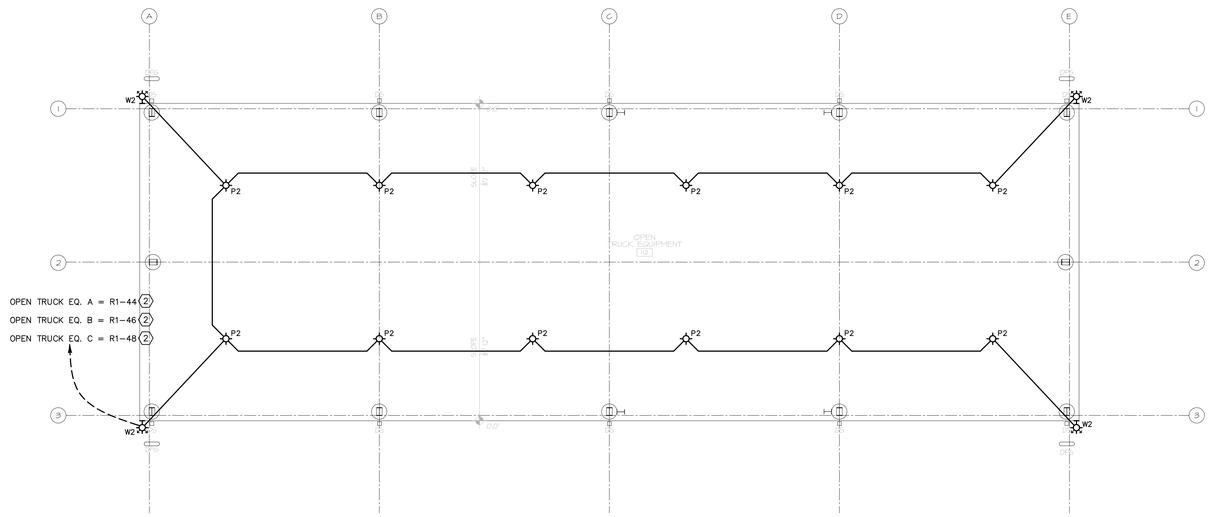
MAIN LEVEL
VEHICLE STORAGE - LIGHTING PLAN

1 / E2.01 SCALE: 1/8" = 1'-0"



MEZZANINE LEVEL
VEHICLE STORAGE - LIGHTING PLAN

2 / E2.01 SCALE: 1/8" = 1'-0"



TYPICAL
OPEN TRUCK - LIGHTING PLAN

3 / E2.01 SCALE: 1/8" = 1'-0"

GENERAL NOTES: (THIS SHEET ONLY, EXCEPT AS NOTED)

1. MATERIALS EXPOSED WITHIN PLENUMS ARE REQUIRED TO BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 AS DETERMINED IN ACCORDANCE WITH ASTM E 84 EXCEPT FOR TESTED AND LABELED WIRING, FIRE SPRINKLER PIPING, PNEUMATIC TUBING, AND ELECTRICAL EQUIPMENT. (IBC SECTIONS 716.5 AND IMC SECTION 602.2.1)
2. THE OCCUPANCY SENSOR LAYOUT INDICATED ON THE DRAWINGS IS SCHEMATIC IN NATURE. THE CONTRACTOR SHALL PROVIDE THE QUANTITY OF OCCUPANCY SENSORS REQUIRED TO ENSURE FULL COVERAGE OF EACH INDIVIDUAL SPACE INDICATED ON THE DRAWINGS. CONTRACTOR SHALL PROVIDE SHOP DRAWING LAYOUTS FOR ALL OCCUPANCY SENSORS WITH SUBMITTAL DOCUMENTS FOR APPROVAL PRIOR TO ORDERING.
3. CONTRACTOR SHALL PROVIDE ANY/ALL NECESSARY LOW VOLTAGE CABLING REQUIRED BETWEEN DIMMING CONTROLLER (I.E. DIMMER, LOW VOLTAGE CONTROLLER OR ROOM CONTROLLER) AND SPECIFIED DIMMABLE FIXTURES WITHIN OPEN AND INDIVIDUAL SPACES, UNLESS OTHERWISE NOTED.

KEYNOTES: (THIS SHEET ONLY, EXCEPT AS NOTED)

1. EXTERIOR PHOTOCELL – U.L. LISTED FOR WET LOCATION. COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECT & OWNER PRIOR TO ROUGH-IN. PHOTOCELL SHOULD BE MOUNTED ON THE ROOF, FACING NORTH. PHOTOCELL SHOULD HAVE AN UNRESTRICTED VIEW OF THE SKYLINE AND SHOULD NOT FACE ANY NIGHTTIME LIGHTING SOURCES.
2. CIRCUIT VIA LIGHTING CONTACTOR – REFER TO DETAIL ??/??? FOR ADDITIONAL INFORMATION.
3. CONNECT TO RELAY-1 OF THE RC (ROOM CONTROLLER) FOR THE ASSOCIATED ROOM – PROVIDE WIRING AND CONDUIT TO MATCH ROOM CONTROLLER HOMERUN.
4. CONNECT TO RELAY-2 OF THE RC (ROOM CONTROLLER) FOR THE ASSOCIATED ROOM – PROVIDE WIRING AND CONDUIT TO MATCH ROOM CONTROLLER HOMERUN.
5. CONNECT TO RELAY-3 OF THE RC (ROOM CONTROLLER) FOR THE ASSOCIATED ROOM – PROVIDE WIRING AND CONDUIT TO MATCH ROOM CONTROLLER HOMERUN.
6. THE SUBSCRIBT FOR THE INDIVIDUAL FIXTURES LOCATED IN THE ROOM INDICATE THE ROOM CONTROLLER DIMMING ZONE THAT EACH INDIVIDUAL FIXTURE SHOULD BE CONNECTED FOR DIMMING CONTROL.
7. MASTER OVERRIDE SWITCH – REFERTO DETAIL ??/?? FOR ADDITIONAL INFORMATION.

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TURNIPSEED ENGINEERS
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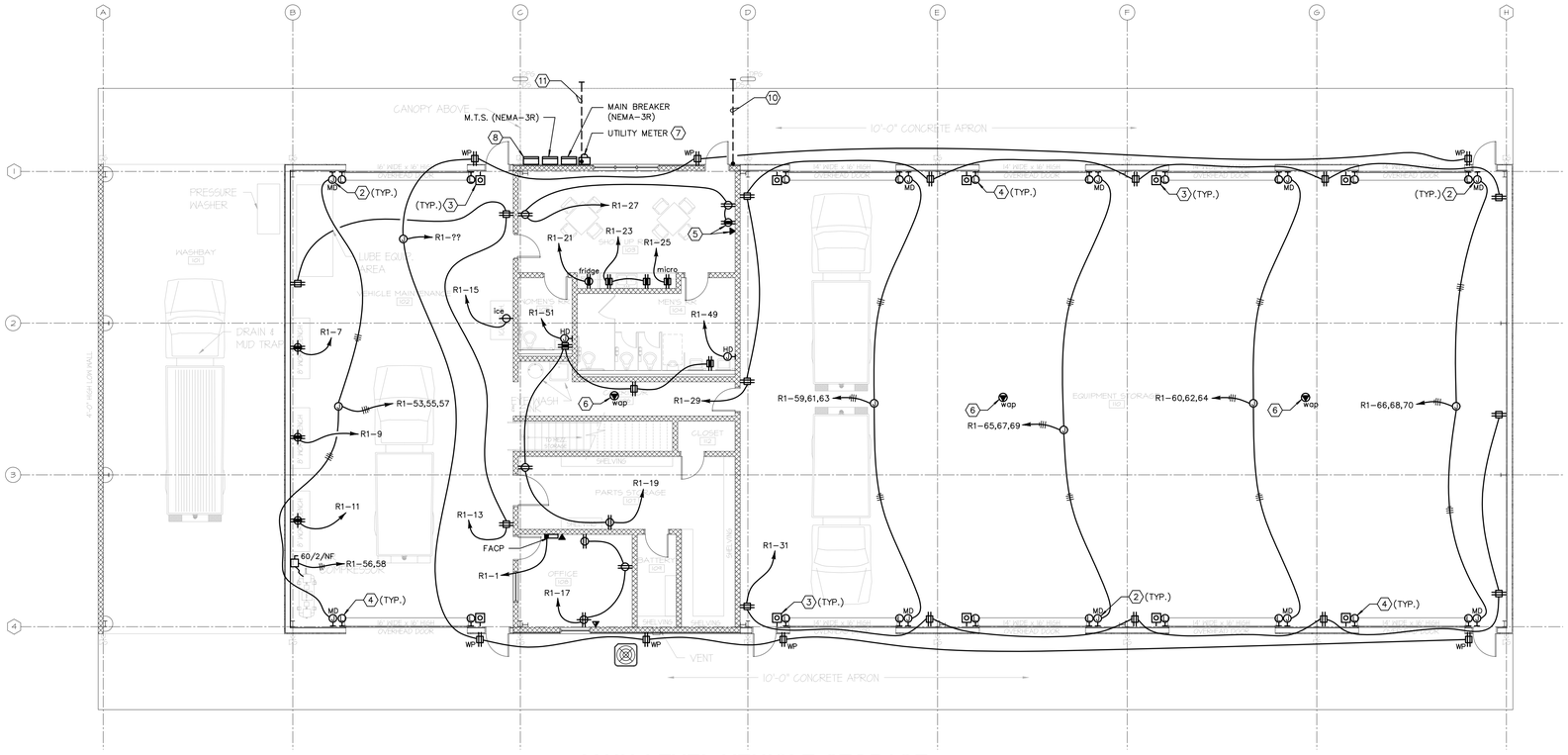
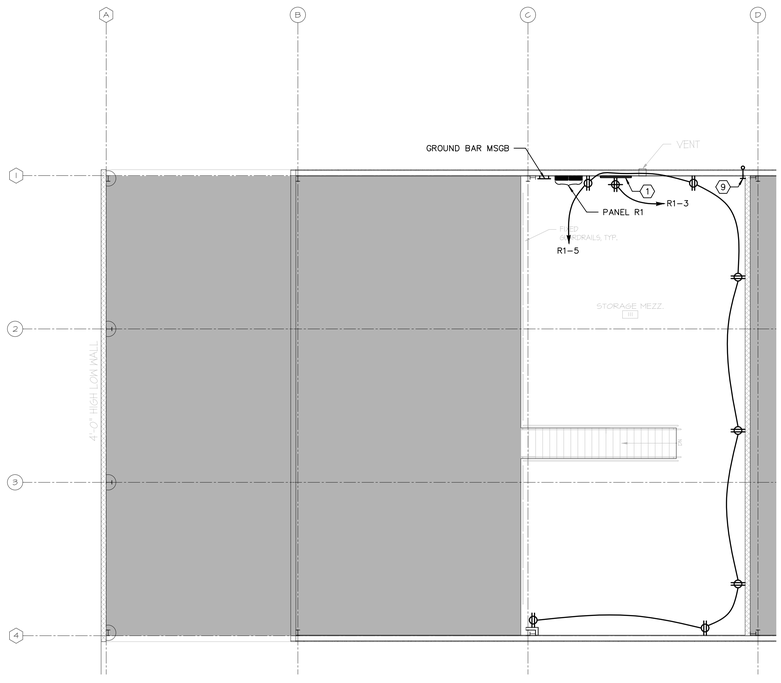
GEORGIA REGISTERED No. 23446 PROFESSIONAL ENGINEER CHRISTOPHER W. PHILLIPS

SHEET NUMBER
E2.01



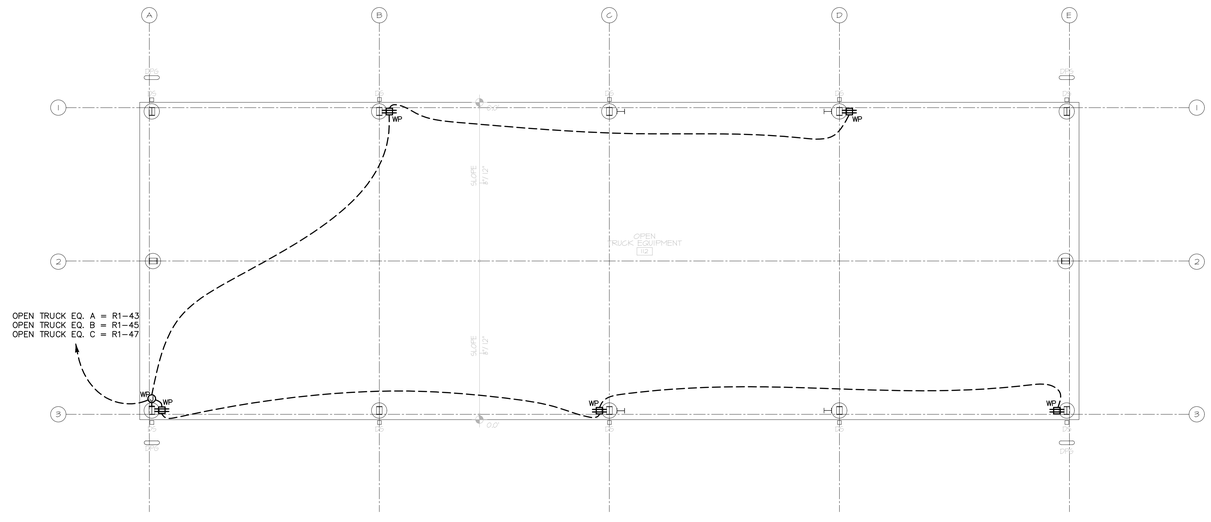
MAIN LEVEL VEHICLE STORAGE - POWER & COMMUNICATIONS PLAN

1 / E3.01 SCALE: 1/8" = 1'-0"



MEZZANINE LEVEL VEHICLE STORAGE - POWER & COMMUNICATIONS PLAN

2 / E3.01 SCALE: 1/8" = 1'-0"



TYPICAL OPEN TRUCK - POWER & COMMUNICTIONS PLAN

3 / E3.01 SCALE: 1/8" = 1'-0"

GENERAL NOTES: (THIS SHEET ONLY, EXCEPT AS NOTED)

1. CAMERAS, ACCESS CONTROL AND ALL VOICE AND DATA EQUIPMENT IS SHOWN FOR REFERENCE ONLY. LOW-VOLTAGE EQUIPMENT SHALL BE INSTALLED BY OWNER PROVIDED FORCES AND ARE NOT IN CONTRACT. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL BOXES, RACEWAYS, CONDUIT AND CABLE TRAYS. THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE OWNER'S PROVIDED FORCES FOR ANY ADDITIONAL RACEWAY REQUIREMENTS FOR THESE SYSTEMS.
2. IT LAYOUT IN STORAGE MEZZ. ROOM IS SCHEMATIC IN NATURE AND DOES NOT INDICATE ALL COMPONENTS REQUIRED FOR A COMPLETE VOICE/DATA SYSTEM – REFER TO VOICE/DATA VENDOR DRAWINGS FOR COMPLETE RACEWAY REQUIREMENTS.
3. ALL NETWORK ELECTRONICS AND RACK MOUNTED UPS SYSTEMS SHALL BE SPECIFIED BY THE OWNER AND PROVIDED BY OTHERS.
4. MATERIALS EXPOSED WITHIN PLENUMS ARE REQUIRED TO BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 AS DETERMINED IN ACCORDANCE WITH ASTM E 84 EXCEPT FOR TESTED AND LABELED WIRING, FIRE SPRINKLER PIPING, PNEUMATIC TUBING, AND ELECTRICAL EQUIPMENT. (IBC SECTIONS 716.5 AND 1017.4.1; IMC SECTION 602.2.1)

KEYNOTES: (THIS SHEET ONLY, EXCEPT AS NOTED)

1. PROVIDE 0.75" THICK PLYWOOD TELEPHONE BACKBOARD MOUNTED 6" AFF TO 8'-0" AFF – FINISH AS DIRECTED BY ARCHITECT.
2. JUNCTION BOX FOR POWER CONNECTION TO MOTORIZED DOOR – COORDINATE EXACT CONNECTION REQUIREMENTS WITH MOTORIZED DOOR MANUFACTURER PRIOR TO ROUGH-IN. PROVIDE 0.50" CONDUIT TO DOOR MOTOR FOR CONTROL WIRING. (TYPICAL)
3. PROVIDE RECESSED OPEN/CLOSE PUSH BUTTON FOR MOTORIZED DOOR AT 48" A.F.F. – COORDINATE EXACT REQUIREMENTS WITH MOTORIZED DOOR MANUFACTURER PRIOR TO ROUGH-IN. (TYPICAL)
4. PROVIDE JUNCTION BOX WITH 0.50" CONDUIT TO DOOR MOTOR FOR WIRING FOR PHOTOELECTRIC SENSORS – COORDINATE EXACT REQUIREMENTS WITH MOTORIZED DOOR MANUFACTURER PRIOR TO ROUGH-IN. MOUNT AT 48" A.F.F. (TYPICAL).
5. DEVICES FOR CONNECTION TO FLAT PANEL TELEVISION – COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. MOUNTING HEIGHT AS INDICATED.
6. PROVIDE DEVICE FOR WIRELESS ACCESS POINT. COORDINATE EXACT MOUNTING LOCATION WITH WIRELESS ACCESS VENDOR PRIOR TO ROUGH-IN.
7. COORDINATE UTILITY METER REQUIREMENTS WITH UTILITY COMPANY PRIOR TO ROUGH-IN AND PROVIDE ALL REQUIRED BACK BOXES, WEAHTERHEADS AND EQUIPMENT REQUIRED BY UTILITY COMPANY.
8. PORTABLE DOCKING STATION (NEMA-3R) – REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
9. TELECOM SERVICE CONDUIT WITH PULLSTRING – PROVIDE 2.00" CONDUIT WITH NYLON BUSHING STUBBED OUT INTO SPACE 8'-0" A.F.F. REFER TO DETAIL 1/E3.01 FOR CONTINUATION.
10. PROVIDE 2.00" SCHEDULE 40 PVC WITH PULL STRING FOR TELECOM. TERMINATE 5'-0" BEYOND THE APRON OF THE BUILDING. VERIFY EXACT LOCATION AND REQUIREMENTS OF TERMINATION POINT WITH OWNER PRIOR TO ROUGH-IN. STUB UP AND CAP 12" AFG AND IDENTIFY WITH ORANGE FLAG MARKER.
11. UTILITY SERVICE – PROVIDE 4.00" CONDUITS CONCRETE ENCASED WITH PULL STRING TERMINATED 5'-0" BEYOND THE APRON OF THE BUILDING. VERIFY EXACT LOCATION AND REQUIREMENTS OF TERMINATION POINT WITH OWNER AND UTILITY COMPANY PRIOR TO ROUGH-IN. STUB UP AND CAP 12" AFG AND IDENTIFY WITH RED FLAG MARKER.

PRIOR TO COMMENCING ANY EXCAVATION, CALL TO GET ALL UTILITIES MARKED. THE CONTRACTOR MUST NOTIFY THE UTILITIES PROTECTION CENTER (UPC) AND PROVIDE A MINIMUM OF 72-HOUR NOTICE TO ALLOW LOCATION OF EXISTING UTILITIES. NO DIGGING IS PERMITTED UNTIL THE UPC HAS MARKED ALL EXISTING UTILITY LOCATIONS.

ANY DAMAGES SHALL BE PROMPTLY REPAIRED AT THE CONTRACTOR'S EXPENSE.

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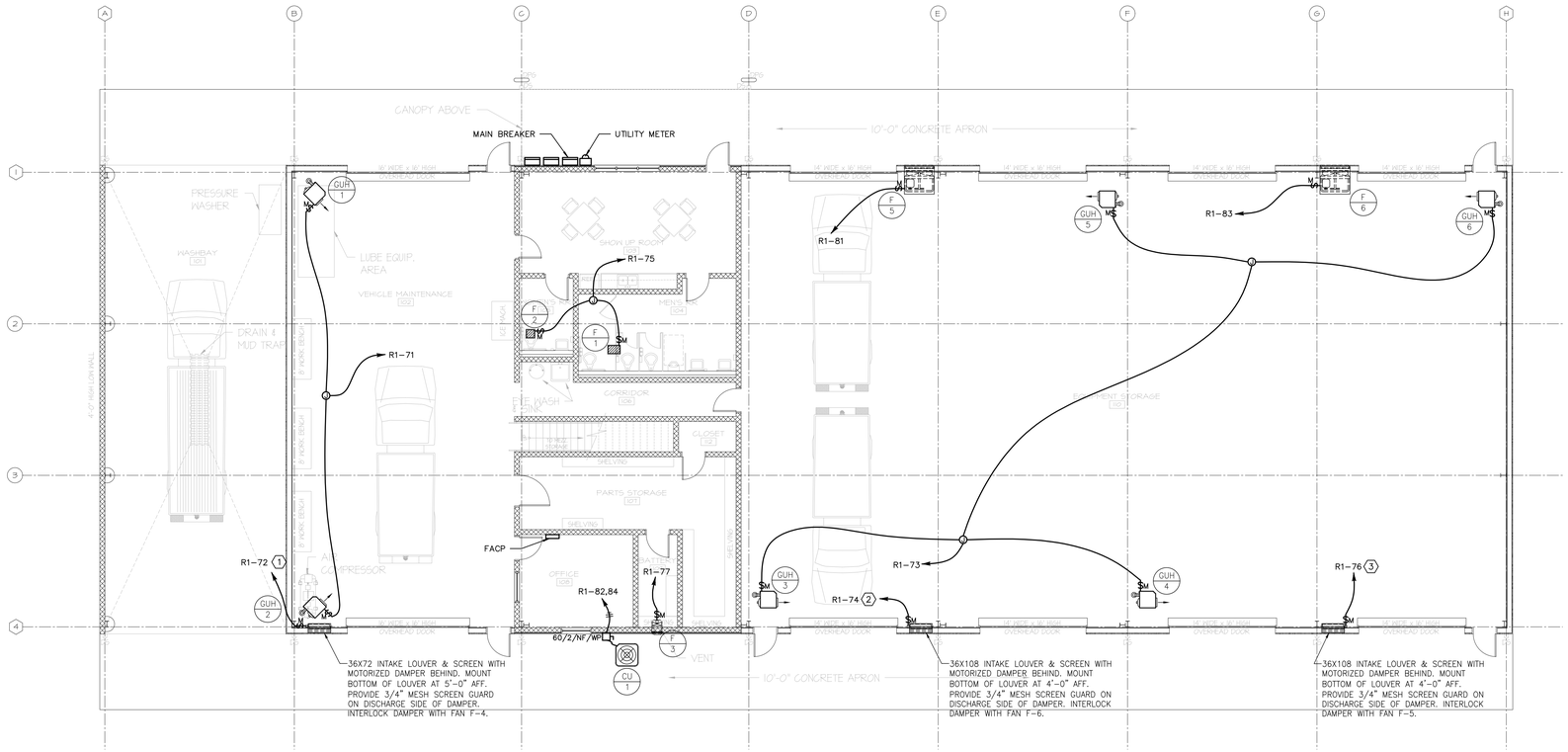
Millard, Inc. ARCHITECTS ENGINEERS

GEORGIA REGISTERED No. 027346 PROFESSIONAL ENGINEER

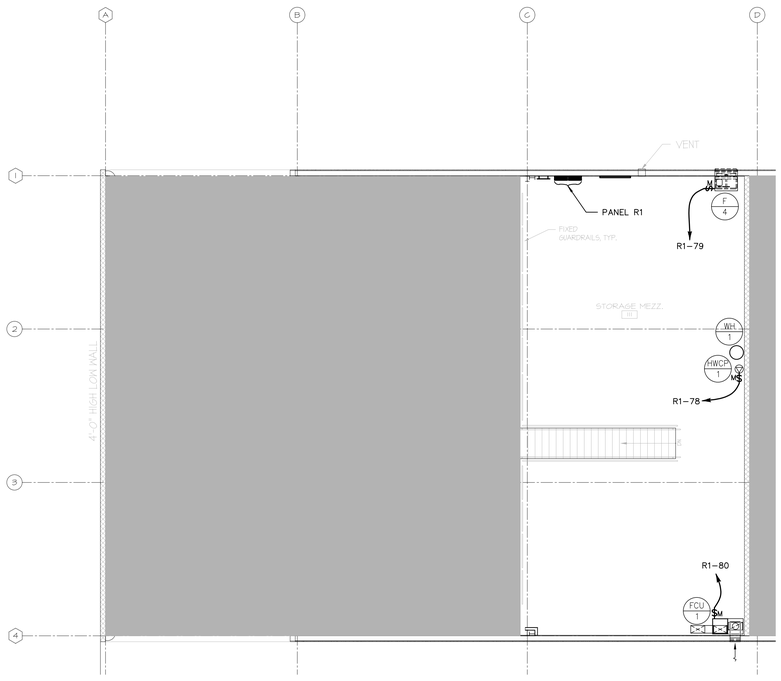
SHEET NUMBER

E3.01



MAIN LEVEL VEHICLE STORAGE - EQUIPMENT POWER PLAN

1 / E4.01 SCALE: 1/8" = 1'-0"



MEZZANINE LEVEL VEHICLE STORAGE - EQUIPMENT POWER PLAN

2 / E4.01 SCALE: 1/8" = 1'-0"

GENERAL NOTES: (THIS SHEET ONLY, EXCEPT AS NOTED)

1. MATERIALS EXPOSED WITHIN PLENUMS ARE REQUIRED TO BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 AS DETERMINED IN ACCORDANCE WITH ASTM E 84 EXCEPT FOR TESTED AND LABELED WIRING, FIRE SPRINKLER PIPING, PNEUMATIC TUBING, AND ELECTRICAL EQUIPMENT. (IBC SECTIONS 716.5 AND IMC SECTION 602.2.1)
2. REFER TO MECHANICAL DRAWINGS FOR EXACT DUCT DETECTOR MOUNTING LOCATION AND QUANTITIES. (TYPICAL)

KEYNOTES: (THIS SHEET ONLY, EXCEPT AS NOTED)

1. DAMPER SHALL BE INTERLOCKED WITH FAN F-4, REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING CONTROLS.
2. DAMPER SHALL BE INTERLOCKED WITH FAN F-5, REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING CONTROLS.
3. DAMPER SHALL BE INTERLOCKED WITH FAN F-6, REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING CONTROLS.

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DATE
03/12/2026
DRAWN BY
CAD
APPROVED BY
RVG
REVISIONS

NEW FLEET FACILITY
FOR SOCIAL CIRCLE

, SOCIAL CIRCLE, GEORGIA 30025

TURNIPSEED ENGINEERS
ATLANTA
AUGUSTA
ST. SIMONS ISLAND

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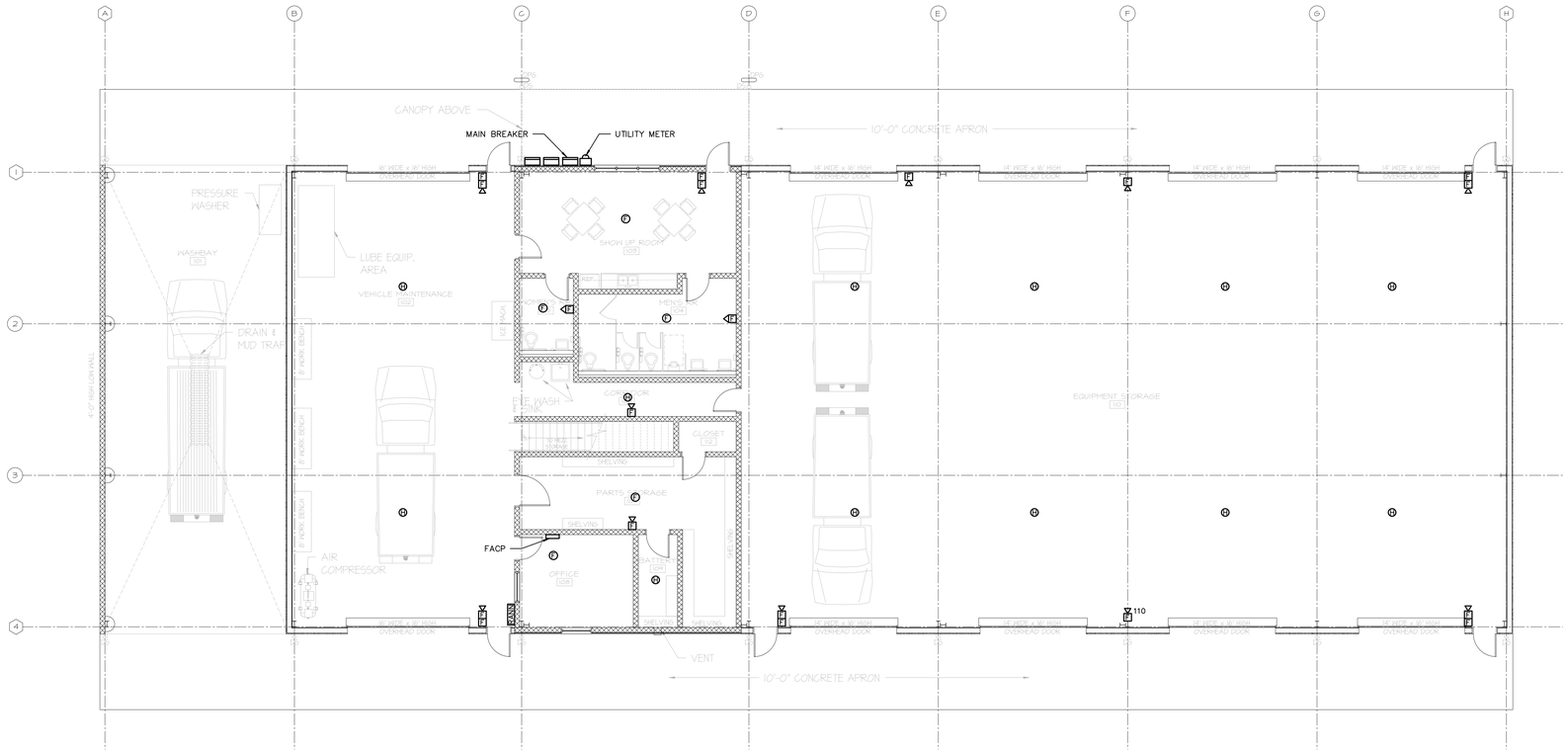
GEORGIA REGISTERED No. 027346 PROFESSIONAL ENGINEER WILLIAM T. PHILLIPS

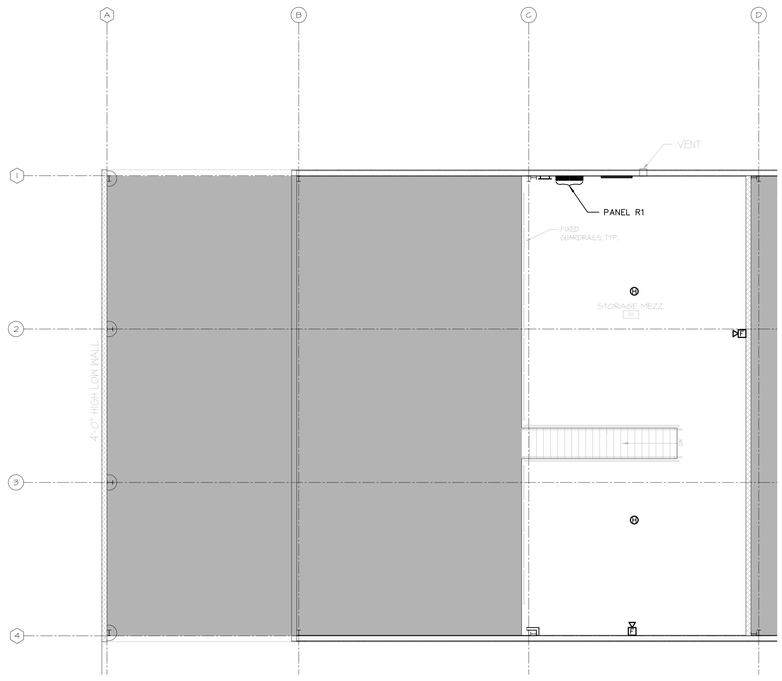
SHEET NUMBER

E4.01



MAIN LEVEL VEHICLE STORAGE - SPECIAL SYSTEMS PLAN

1 / E5.01 SCALE: 1/8" = 1'-0"



MEZZANINE LEVEL VEHICLE STORAGE - SPECIAL SYSTEMS PLAN

2 / E5.01 SCALE: 1/8" = 1'-0"

GENERAL NOTES: (THIS SHEET ONLY, EXCEPT AS NOTED)

1. CAMERAS, ACCESS CONTROL AND ALL VOICE AND DATA EQUIPMENT IS SHOWN FOR REFERENCE ONLY. LOW-VOLTAGE EQUIPMENT SHALL BE INSTALLED BY OWNER PROVIDED FORCES AND ARE NOT IN CONTRACT. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL BOXES, RACEWAYS, CONDUIT AND CABLE TRAYS. THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE OWNER'S PROVIDED FORCES FOR ANY ADDITIONAL RACEWAY REQUIREMENTS FOR THESE SYSTEMS.
2. MATERIALS EXPOSED WITHIN PLENUMS ARE REQUIRED TO BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 AS DETERMINED IN ACCORDANCE WITH ASTM E 84 EXCEPT FOR TESTED AND LABELED WIRING, FIRE SPRINKLER PIPING, PNEUMATIC TUBING, AND ELECTRICAL EQUIPMENT. (IBC SECTIONS 716.5 AND 1017.4.1; IMC SECTION 602.2.1)

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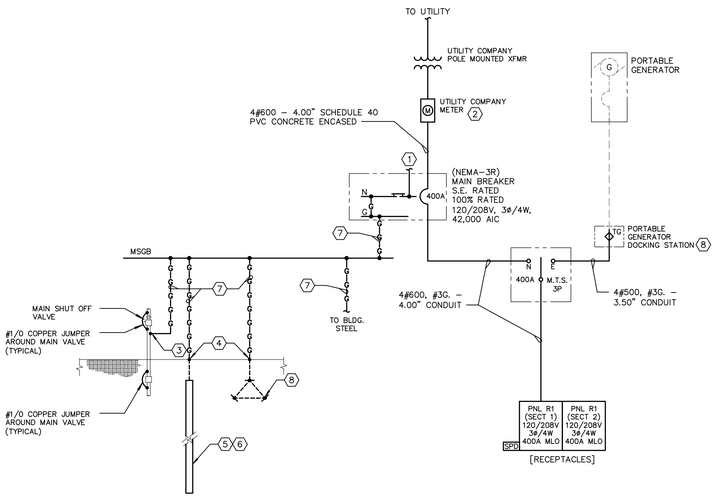
SHEET NUMBER

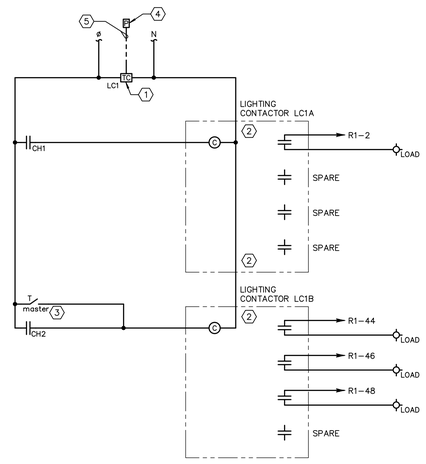
E5.01



KEYNOTES: (DETAIL 1/E6.00 ONLY)

1. OUTGOING NEUTRAL.
2. COORDINATE METER REQUIREMENTS WITH UTILITY COMPANY PRIOR TO ROUGH–IN AND PROVIDE ALL REQUIRED BACK BOXES, WEATHERHEAD AND EQUIPMENT REQUIRED BY UTILITY COMPANY.
3. PROVIDE SPECIFIED CLAMP AND CONNECT TO EXISTING COLD WATER PIPE AHEAD OF MAIN SHUT–OFF VALVE OR UNION.
4. TRANSITION FROM EXPOSED CABLE TO BURIED CABLE.
5. PROVIDE "UFER" CONCRETE–ENCASED ELECTRODE (COMPLY WITH NEC 250.53(A)(3)) THAT CONSIST OF MINIMUM 20'–0" OF EITHER:
   - ONE OR MORE BARE OR ZINC GALVANIZED OR OTHER ELECTRICALLY CONDUCTIVE COATED STEEL REINFORCING BARS OR RODS OF NOT LESS THAN 0.50" IN DIAMETER, INSTALLED IN ONE CONTINOUS 20'–0" LENGTH, OR IN MULTIPLE PIECES CONNECTED TOGETHER BY STEEL TIE WIRES, EXOTHERMICALLY WELDED TO CREATE A 20'–0" OR GREATER LENGTH.
   - #4/0 BARE COPPER CONDUCTOR.
6. ALL METALLIC COMPONENTS OF "UFER" GROUNDING ELECTRODE SHALL BE ENCASED BY MINIMUM OF 2" OF CONCRETE AND SHALL BE LOCATED HORIZONTALLY WITHIN THAT PORTION OF A CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH OR WITHIN VERTICAL FOUNDATIONS OR STRUCTURAL COMPONENTS OR MEMBERS THAT ARE IN DIRECT CONTACT WITH THE EARTH. (NOTE–CONCRETE INSTALLED WITH INSULATION, VAPOR BARRIERS, FILMS OR SIMILAR ITEMS SEPARATING THE CONCRETE FROM THE EARTH IS NOT CONSIDERED TO BE IN "DIRECT CONTACT" WITH THE EARTH). COORDINATE INSTALLATION REQUIREMENTS WITH STRUCTURAL DIVISION.
7. PROVIDE #4/0 IN 1.00" PVC CONDUIT.
8. PROVIDE 0.75"X10' LONG COPPER CLAD GROUND RODS SPACED 10' APART, 24" TO TOP BELOW THE GRADE AND 24" MINIMUM LATERAL DISTANCE FROM THE BLDG.
9. PROVIDE NEMA–3R, 400A SINGLE BREAKER PORTABLE GENERATOR DOCKING STATION – COORDINATE DOCKING STATION REQUIREMENTS WITH OWNER PRIOR TO ROUGH–IN OR ORDERING OF OF DOCKING STATION.

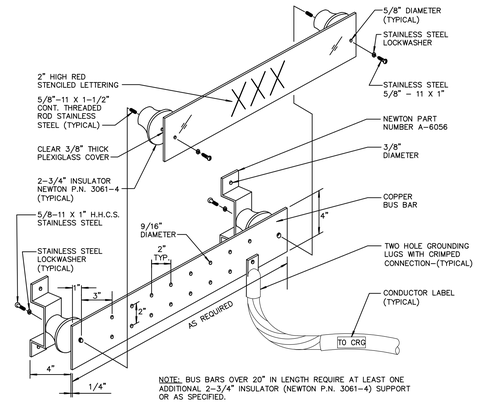
1 ONE-LINE DIAGRAM
E6.00 SCALE: NOT TO SCALE



KEYNOTES: (DETAIL 2/E6.00 ONLY)

1. DIGITAL ASTRONOMICAL TIME CLOCK WITH (2) CHANNELS THAT OPERATE INDEPENDENTLY OF EACH OTHER – EACH CHANNEL WITH (99) ON–OFF OPERATIONS.
2. 4–POLE ELECTRICALLY HELD, ELECTRICALLY OPERATED LIGHTING CONTACTOR.
3. DIGITAL TIMER OVERRIDE SWITCH.
4. EXTERIOR PHOTO CELL – REFER TO KEYNOTE–2 ON SHEET E2.1 FOR ADDITIONAL INFORMATION.
5. PROVIDE MANUFACTURER RECOMMENDED WIRING/CABING IN 0.75" CONDUIT.

2 LIGHTING CONTACTOR DIAGRAM
E6.00 SCALE: NOT TO SCALE



NOTE: BUS BARS OVER 20" IN LENGTH REQUIRE AT LEAST ONE ADDITIONAL 2–3/4" INSULATOR (NEWTON P.N. 3061–4) SUPPORT OR AS SPECIFIED.

3 GROUND BUS DETAIL
E6.00 SCALE: NOT TO SCALE

SCHEDULE OF PANEL R1 (NOTE–3) SECTION 1

MAINS: ☒ LUGS ONLY 400A ☐ MAIN BREAKER
VOLTAGE: ☒ 208Y/120V, 3ø, 4W ☐ 480Y/277V, 3ø, 4W ☐ 200% NEUTRAL ☒ GROUND ☐ 208V, 3ø, 3W ☐ 480V, 3ø, 3W ☐ 575V, 3ø, 3W ☐ ISOLATED GROUND
MOUNTING: ☐ FLUSH ☒ SURFACE
SCCR: 42,000 AIC

CKT NO	DESCRIPTION	WIRING PH	WIRING N	WIRING GND	WIRING COND	LOAD (KVA)	NOTES	BKR	POLES	PHASES	POLES	BKR	NOTES	LOAD (KVA)	WIRING PH	WIRING N	WIRING GND	WIRING COND	DESCRIPTION	CKT NO
1	FACP					0.50		20	1	A	1	20		0.19					EXT BLDG LTG VIA LC	2
3	TELECOM REC					0.50		20	1	B	1	20		0.81					LTG – RM 110	4
5	REC – STORAGE MEZZ.					1.26		20	1	C	1	20		1.19					LTG – RM 110	6
7	WORKBENCH – RM 102					0.50		20	1	A	1	20		1.06					LTG – RM 102	8
9	WORKBENCH – RM 102					0.50		20	1	B	1	20		0.60					LTG – RM 101	10
11	WORKBENCH – RM 102					0.50		20	1	C	1	20		1.07					LVL 1 LTG	12
13	REC – RM 102					054		20	1	A	1	20		0.63					MEZZANINE LTG	14
15	ICE MACHINE – RM 102					0.60		20	1	B	1	20		0.25					LIGHTING CONTACTOR LC	16
17	REC – RM 108					0.72		20	1	C	1	20							SPARE	18
19	REC – RM 104–107					0.90		20	1	A	1	20							SPARE	20
21	FRIDGE – RM 103					1.08	4	20	1	B	1	20							SPARE	22
23	COUNTER REC – RM 103					0.68		20	1	C	1	20							SPARE	24
25	MICROWAVE – RM 103					1.10		20	1	A	1	20							SPARE	26
27	REC – RM 103					0.61		20	1	B	1	20							SPARE	28
29	REC – RM 110					1.08		20	1	C	1	20							SPARE	30
31	REC – RM 110					1.08		20	1	A	1								SPACE	32
33	SPARE							20	1	B	1								SPACE	34
35	SPARE							20	1	C	1								SPACE	36
37	SPARE							20	1	A	1								SPACE	38
39	SPARE							20	1	B	1								SPACE	40
41	SPARE							20	1	C	1								SPACE	42

SCHEDULE OF PANEL R1 SECTION 2

NOTE: SAME RATINGS AS SECTION 1

CKT NO	DESCRIPTION	WIRING PH	WIRING N	WIRING GND	WIRING COND	LOAD (KVA)	NOTES	BKR	POLES	PHASES	POLES	BKR	NOTES	LOAD (KVA)	WIRING PH	WIRING N	WIRING GND	WIRING COND	DESCRIPTION	CKT NO
43	OPEN TRUCK EQ A – REC	#8	#8	#10	0.75"	0.90		20	1	A	1	20		0.99	#8	#8	#10	0.75"	OPEN TRUCK EQ A – LTG	44
45	OPEN TRUCK EQ B – REC	#6	#6	#8	1.00"	0.90		20	1	B	1	20		0.99	#6	#6	#8	1.00"	OPEN TRUCK EQ B – LTG	46
47	OPEN TRUCK EQ B – REC	#6	#6	#8	1.00"	0.90		20	1	C	1	20		0.99	#6	#6	#8	1.00"	OPEN TRUCK EQ B – LTG	48
49	HAND DRYER – RM 104					1.50		20	1	A	1								SPACE	50
51	HAND DRYER – RM 105					1.50		20	1	B	1								SPACE	52
53	MOTORIZED OVERHEAD GARAGE DOORS	3#12	–	#12	0.75"	0.84		15	3	C	1								SPACE	54
55						0.84				A	2	30		1.74	2#10	–	#10	0.75"	AIR COMPRESSOR	56
57						0.84				B				1.74						58
59	MOTORIZED OVERHEAD GARAGE DOORS	3#12	–	#12	0.75"	0.84		15	3	C	3	15		0.84	3#12	–	#12	0.75"	MOTORIZED OVERHEAD GARAGE DOORS	60
61						0.84				A				0.84						62
63						0.84				B				0.84						64
65	MOTORIZED OVERHEAD GARAGE DOORS	3#12	–	#12	0.75"	0.84		15	3	C	3	15		0.84	3#12	–	#12	0.75"	MOTORIZED OVERHEAD GARAGE DOORS	66
67						0.84				A				0.84						68
69						0.84				B				0.84						70
71	GUH–1 & GUH–2	#12	#12	#12	0.50"	0.14		15	1	C	1	15		0.60	#12	#12	#12	0.50"	F–4 MOTORIZED DAMPER	72
73	GUH–3 THRU GUH–6	#12	#12	#12	0.50"	0.48		15	1	A	1	15		0.60	#12	#12	#12	0.50"	F–5 MOTORIZED DAMPER	74
75	F–1 & F–2	#12	#12	#12	0.50"	0.28		15	1	B	1	15		0.60	#12	#12	#12	0.50"	F–6 MOTORIZED DAMPER	76
77	F–3	#12	#12	#12	0.50"	0.10		15	1	C	1	15		0.26	#12	#12	#12	0.50"	HWCP–1	78
79	F–4	#10	#10	#10	0.75"	1.92		30	1	A	1	15		1.21	#12	#12	#12	0.50"	FCU–1	80
81	F–5	#10	#10	#10	0.75"	1.92		30	1	B	2	40		2.18	2#8	–	#10	0.75"	CU–1	82
83	F–6	#10	#10	#10	0.75"	1.92		30	1	C				2.18						84

TOTAL LOADS	
CONNECTED (KVA):	110.55
DEMAND (KVA):	82.75
DESIGN (KVA):	115.28

NOTES:
1. BRANCH BREAKERS SHALL BE 20 AMP. 1 POLE UNLESS NOTED OTHERWISE.
2. BRANCH CIRCUIT WIRING SHALL BE #12 WIRE, #12 GND IN 0.50" CONDUIT, UNLESS NOTED OTHERWISE.
3. PROVIDE SPD (SURGE PROTECTIVE DEVICE) INTEGRAL TO PANEL.
4. PROVIDE GFCI PROTECTED BREAKER.

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