Fayetteville Regional Airport Airline Terminal Improvements - Part 3

400 Airport Road
Fayetteville, North Carolina 28306
Owner: City of Fayetteville

A.I.P.: 3-37-0021-054-2022

BUILDING CODE SUMMARY

Name of Project: Fayetteville Regional Airport Airline Terminal Improvements - Part 3
Address: 400 Airport Road, Fayetteville, NC 28306
Owner or Authorized Agent: Toney Coleman, PhD, A.A.E. Phone #: 910-433-1625
e-mail: ToneyColeman@FayettevilleNC.gov
Owned By: ☐ Private ■ City/County ☐ State
Enforcement Jurisdiction: ■ City ☐ County ☐ City/County
Name of Jurisdiction: City of Fayetteville

PROJECT SUMMARY: 1,671 s.f. office renovation at Ticketing wing & VIP Lounge, T38 s.f. second floor addition at Concourse B, and re-roofing of Concourse B as well as Ticketing and Baggage Claim wings
Building Description: Existing building is primarily a concrete frame w/ built up roofing. New structures to be steel framed w/ low sloped metal deck & single ply & metal roofs.
Scope of Work: Renovate existing space for additional airline office suite, add T38 s.f. for additional seating at Concourse B, clean stone coating off roofs described above and add 1" insulation & re-roof.
Code Compliance Summary: 2018 NCSBC

Alternate Means of Compliance Request: n/a

Architect of Record
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Building Code: ■ 2018 North Carolina State Building Code (NCSBC) ☐ Chapter 34
☐ 2009 NC Rehab
☐ 2015 Existing Building Code
☐ _____ Code Used for Reconstruction

New Building: ☐ New Building ☐ Shell Building ☐ First Time Interior Upfit
■ Addition ☐ Alteration to Shell
Existing Building: ■ Renovation ☐ Interior Completion ☐ Tenant Alteration
☐ Reconstruction ☐ Repair ☐ Alteration to Shell
☐ Change of Use Tenant Space ☐ Change of Occupancy
Note: Zoning Review is Required for Change of Use or Occupancy

Original Occupancy: Mixed - A2, A3, B, M, S1
Proposed Occupancy: Mixed - A2, A3, B, M, S1

OCCUPANCY INFORMATION

Primary Occupancies:
Assembly: ☐ A-1 ☐ A-2 ■ A-3 ☐ A-4 ☐ A-5
Business: ■
Educational: ☐
Factory-Industrial: ☐ F-1 ☐ F-2
High-Hazard: ☐ H-1 ☐ H-2 ☐ H-3 ☐ H-4 ☐ H-5
Institutional: ☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4
I-3 USE CONDITION: ☐ I ☐ 2 ☐ 3 ☐ 4 ☐ 5
Mercantile: ☐
Residential: ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage: ☐ S-1 ☐ S-2 ☐ High-piled
S-1 SPECIAL CONDITION: ☐ Repair Garage (406.7)
S-1 SPECIAL CONDITION - Parking Garage: ☐ Open (406.5) ☐ Enclosed (406.6)
Utility and Miscellaneous: ☐
Other Uses:
(508.2) Accessory Uses (Indicate Percentages): A-2, M, S-1
(509) Incidental Uses: -
Special Occupancies: ■ 402 ☐ 403 ☐ 404 ☐ 405 ☐ 406 ☐ 407 ☐ 408 ☐ 409 ☐ 410 ☐ 411 ☐ 412 ☐ 413 ☐ 414 ☐ 415 ☐ 416 ☐ 417 ☐ 418 ☐ 419 ☐ 420 ☐ 421 ☐ 422 ☐ 423 ☐ 424 ☐ 425 ☐ 426 ☐ 427 ☐ 428 ☐ 429 ☐ 430
Mixed Occupancy: ☐ No ■ Yes Separation: 1 HR. at Tenant Spaces
Exception: 402.4.2.1 & 402.4.2.2.1
☐ Non-Separated Mixed Occupancy (508.3)
☐ Separated Mixed Occupancy (508.4)

Actual Area of Occupancy A / Allowable Area of Occupancy A + Actual Area of Occupancy B / Allowable Area of Occupancy B ≤ 1
NOT APPLICABLE

General Explanatory Notes:
1) This building is not Occupancy Category 4 per Table 1-1 of 2005 ASCE-7 therefore "Operational Access" described in 11.5.2 of 2005 ASCE-7 IS NOT REQUIRED.
2) See Plumbing, Mechanical, & Electrical Drawings for fire rated penetration details (if required).

ALLOWABLE AREA AND HEIGHT CALCULATIONS

THIS SECTION FOR NEW, ADDITION, CHANGE OF USE, AND INTERIOR COMPLETIONS

EXTERIOR WALL	ACTUAL LENGTH		OPEN LENGTH		WIDTH OF PUBLIC WAY OR OPEN SPACE	
North	-		-		-	
South	-		-		-	
East	-		-		-	
West	-		-		-	
Total	-	P	-	F	-	W

NOT APPLICABLE

INCREASE FRONTAGE - _____ %
SPRINKLERS N/A _____ %

FRONTAGE INCREASE FORMULA ALLOWABLE AREA FORMULA
$I_f = 100\ (F/P - 0.25)\ W/30$

STORY NO.	OCCUPANCY	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 AREA	(C) AREA FOR FRONTAGE INCREASE[1]	(D) AREA FOR SPRINKLER INCREASE	(E) ALLOWABLE AREA FOR UNLIMITED	RATIO OF ACTUAL / ALLOWABLE	(F) MAXIMUM BUILDING AREA	SEPARATION RATING REQUIRED
First	Mixed	52,600	n/a	n/a	n/a	Unlimited	n/a	Unlimited	402.4.2.1
Second	Mixed	46,013	n/a	n/a	n/a	Unlimited	n/a	Unlimited	402.4.2.1
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

[1] Open space area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having a minimum width = ____ ft. (F)
b. Total Building Perimeter = ____ ft. (P)
c. Ratio (F/P) = ____ (F/P)
d. W = Minimum width of public way = ____ ft. (W)
e. Percent of area increase, $I_f = 100\ [F/P - 0.25] \times W/30 =$ ____ (%)

NOT APPLICABLE

ALLOWABLE HEIGHT

Most Restrictive Use (Group)	ALLOWABLE HEIGHT (TABLE 504.3)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
Type of Construction	Type: IIb		Type: IIb	Table 601
Building Height in Ft.	H = 55 ft.	H + 20' = 75 ft.	H = 34 ft.	Table 504.3
Building Height in Stories	S = 2	S + 1 = 3	S = 2	Table 504.4

BUILDING DATA

THIS SECTION REQUIRED FOR ALL PROJECTS

Construction Type: ☐ I-A ☐ I-B ☐ II-A ■ II-B ☐ III-A ☐ III-B ☐ IV-HT ☐ V-A ☐ V-B
Mixed Construction: ■ No ☐ Yes Types: _____
Sprinklers: ☐ No ■ Yes ■ NFPA 13 ☐ NFPA 13R ☐ Partially Sprinklered ☐ Special Suppression
Standpipes: ☐ No ■ Yes Class: ☐ I ☐ II ☐ III ■ Wet ■ Dry
Fire District: ■ No ☐ Yes (Appendix D) ☐ Flood Hazard
Building Height: 34 Feet 2 Story
Basement: ■ No ☐ Yes Mezzanine: ■ No ☐ Yes
Highrise: ■ No ☐ Yes Life Safety Plan Sheet # (if provided): N/A

Gross Building Area:

FLOOR	EXISTING (SQ. FT.)	NEW (SQ. FT.)	SUB-TOTAL
Basement	n/a	n/a	n/a
Ground Floor	52,600	0	52,600
Mezzanine	0	0	0
2nd Floor	45,275	738	46,013
3rd Floor	n/a	n/a	n/a
Total	97,875	738	98,613

Area of Project Tenant / Alt. / Renov. 2,415 Area of Construction 2,415

FIRE PROTECTION REQUIREMENTS

THIS SECTION REQUIRED FOR ALL PROJECTS

Life Safety Plan Sheet #, if Provided: -

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D*	RATING PROVIDED (W / __ HR* REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Bearing walls Exterior						SEE MECHANICAL, ELECTRICAL, PLUMBING DRAWINGS	
North	-	N/A	-	-	-		
East	-	N/A	-	-	-		
West	-	N/A	-	-	-		
South	-	N/A	-	-	-		
Interior Bearing Walls	-	0	-	-	-		
Non-bearing walls Exterior							
North >	60	0	0	-	-		
East >	60	0	0	-	-		
West >	60	0	0	-	-		
South >	60	0	0	-	-		
Interior Non Bearing Walls	-	0	0	-	-		
Structural frame, including columns, girders, trusses	-	0	0	-	-		
Floor construction including supporting beams & joists. List construction type.	-	0	0	-	-		
Floor ceiling assembly		0	0	-	-		
Columns supporting floors	-	0	0	-	-		
Roof construction, including supporting beams & joists**	-	0	0	-	-		
Roof ceiling assembly	-	0	0	-	-		
Columns supporting roof	-	0	0	-	-		
Shaft - Exit Enclosures	-	1	1	Existing	-		
Shaft - Other (Elevator)	-	1	1	Existing	-		
Corridor Separation	-	0	0	-	-		
Occupancy Separation	-	0	0	-	-		
Party / Fire Wall Separation	-	N/A	-	-	-		
Incidental Use Separation	-	N/A	-	-	-		
Dwell / Sleep Unit Separation	-	N/A	-	-	-		
Smoke Barrier Separation	-	N/A	-	-	-		
Tenant Separation	-	1	1	Existing	-		

*Indicate section number permitting reduction
**Indicated if using Table 601 Note G exception

PERCENTAGE OF WALL OPENING CALCULATIONS

THIS SECTION FOR ADDITIONS, NEW AND CHANGE OF USE

Allowable openings per Table 705.8
Unlimited per 705.8.1.2

PERCENTAGE OF WALL OPENING CALCULATIONS

THIS SECTION FOR ADDITIONS, NEW AND CHANGE OF USE

■ Fire Partitions 709 ☐ Fire Walls 706 ■ Fire Barriers 707
☐ Smoke Partitions 711 ☐ Smoke Barriers 710 ■ Shaft Enclosure 708

LIFE SAFETY SYSTEM REQUIREMENTS

THIS SECTION REQUIRED FOR ALL PROJECTS

Emergency Lighting:	☐ No	■ Yes
Exit Signs:	☐ No	■ Yes
Fire Alarm:	☐ No	■ Yes
Smoke Detection Systems:	☐ No	■ Yes
Panic Hardware:	☐ No	■ Yes

EXIT REQUIREMENTS

NUMBER AND ARRANGEMENT OF EXITS

THIS SECTION REQUIRED FOR ALL PROJECTS

FLOOR, ROOM AND / OR SPACE DESIGNATION	MINIMUM[2] NUMBER OF EXITS		TRAVEL DISTANCE		ARRANGEMENT MEANS OF EGRESS[3] (SECTION 1015.2)	
	REQUIRED	SHOWN ON PLANS	ALLOWABLE TRAVEL DISTANCE (TABLE 1016.1)	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	REQUIRED DISTANCE BETWEEN EXIT DOORS	ACTUAL DISTANCE SHOWN ON PLANS
1st Floor Landside	3	9	250	160	140	390
1st Floor Airside	4	8	250	115	55	100
2nd Floor Landside	2	3	250	245	50	58
2nd Floor Airside	4	8	250	215	65	100

[1] Corridor dead ends (Section 1018.4)
[2] Single exits (Section 1015.1; Section 1020.2)
[3] Common Path of Egress Travel (Section 1014.3)

OCCUPANT LOAD AND EXIT WIDTH

THIS SECTION REQUIRED FOR ALL PROJECTS

USE GROUP AND / OR SPACE DESCRIPTION	(a) AREA[1] sq. ft.	(b) AREA[1] PER OCCUPANT	(a/b) NUMBER OF OCCUPANTS	(c) EGRESS WIDTH PER OCCUPANT (TABLE 1005.1)		EXIT WIDTH (in)[2,3,4,5,6] REQUIRED WIDTH (SECTION 1005.1) (a/b) X c		ACTUAL WIDTH SHOWN ON PLANS	
				STAIR	LEVEL	STAIR	LEVEL	STAIR	LEVEL
First Floor	52,600	See A1.10	526	n/a	0.2	n/a	103.2	n/a	578.0
Second Floor	45,275	See A1.20	1,090	0.3	0.2	317.4	211.6	346.0	374.0
Total # of Occupants			1,616	-	-	-	-	-	-

[1] See Table 1004.1.1 to determine whether net or gross area is applicable.
[2] Minimum stairway width (Section 1009.1); min. corridor width (Section 1018.2); min. door width (Section 1008.1.1)
[3] Minimum width of exit passageway (Section 1023.2)
[4] The loss of one means of egress shall not reduce the available capacity to less than 50 percent of the total required (Section 1005.1)
[5] Assembly occupancies (Section 1028)

ASSEMBLY OCCUPANCY INFORMATION

THIS SECTION MUST BE COMPLETED TO IDENTIFY THE OCCUPANCY CAPACITY FOR ALL PROJECTS

First Floor	526	See A 1.10 for First Floor Occupancy Information
Second Floor	1,090	See A1.20 for Second Floor Occupancy Information
Total	1,616	

PLUMBING FIXTURE REQUIREMENTS

THIS SECTION REQUIRED FOR ALL PROJECTS

Occupancy	WATERCLOSETS		URINALS	LAVATORIES		FAMILY/ UNISEX TOILETS	SHOWERS/ TUBS	DRINKING FOUNTAINS	
	MALE	FEMALE		MALE	FEMALE			REGULAR	ACCESSIBLE
First Floor	5	9	4	7	7	1 / 4	2	3	2
Second Floor	6	10	7	6	6	3 / 3		3	3
Total Required	3	3	3	2	2	3 / 0	n/a	3	3
Total Provided	11	19	11	13	13	4 / 7	2	6	5

Structural Design Loads (See Structural Drawings)

ACCESSIBLE PARKING

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED		TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACE WITH 8' ACCESS AISLE	
LONG TERM	Existing to Remain				
SHORT TERM					
TOTAL					

SPECIAL APPROVALS

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

2018 NORTH CAROLINA ENERGY CONSERVATION CODE

COMMERCIAL ENERGY EFFICIENCY - BUILDING SUMMARY

501.1 METHOD OF COMPLIANCE
■ 2018 NCECC CHAPTER 5
501.2 APPLICATION COMPLIANCE
☐ 506.2.1 EFFICIENT MECH EQUIPMENT
☐ 506.2.2 REDUCED LTG DENSITY
☐ 506.2.3 ENERGY RECOVERY SYSTEMS
☐ NC SPECIFIC COMCHECK PROVIDED
☐ 20% IMPROVEMENT OVER ASHRAE 90.1-2007
☐ 506.2.4 HI EFFICIENCY DOMESTIC HW
☐ 506.2.5 ONSITE RENEWABLE ENERGY
☐ 506.2.6 DAYLIGHT CONTROLS

301.1 CLIMATE ZONE
3A CUMBERLAND COUNTY, NORTH CAROLINA

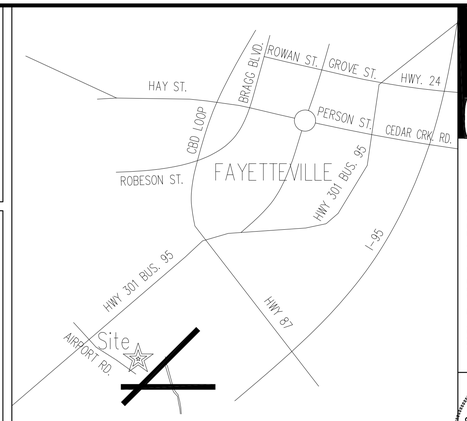
DESIGN CONDITIONS
EXTERIOR (ASHRAE 90.1 - 2007 TABLE D-1)
winter dry bulb 18° F.
summer dry bulb 91° F.
summer wet bulb 74° F.
INTERIOR (2012 NCECC SECTION 302.1)
winter dry bulb 72° F.
summer dry bulb 75° F.

502.1 BUILDING ENVELOPE REQUIREMENTS
BUILDING TYPE FOR ENVELOPE REQUIREMENTS: Steel Frame
VERTICAL GLAZING / WALL AREA %: 15%
SKYLIGHT GLAZING / ROOF AREA%: 0.1%
ACTIVITY TYPE(S) FLOOR AREA
- -
- -
- -

502.2 OPAQUE INSULATION REQUIREMENTS

COMPONENT NAME	GROSS AREA OR PERIMETER	CAVITY R-VALUE	CONT. R-VALUE	PROPOSED U-FACTOR
ROOF	-	-	R-28	U-0.035
FLOOR	-	-	R-12	U-0.083
EXTERIOR WALL	-	R-13	R-10	U-0.060
WINDOW(S) WALL	-	-	-	U-0.45
STOREFRONT WINDOW	-	-	-	U-0.45
DOOR(S) WALL	-	-	R-1.43	U-0.10
SLAB (UNHEATED)	-	-	NR	NR
SLAB (HEATED)	-	-	N/A	N/A
WALL(S) BELOW GRADE	-	-	R-12	U-0.083
SKYLIGHT	-	-	-	U-0.60

SIGNED: _____
NAME: Gordon E. Johnson
TITLE: Architect



VICINITY MAP
FAYETTEVILLE, NC

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GORDON ELLISON JOHNSON
REGISTERED ARCHITECT
6194
7 - 31 - 2023
NORTH CAROLINA
FAYETTEVILLE, N.C.

Drawing Sheet Index

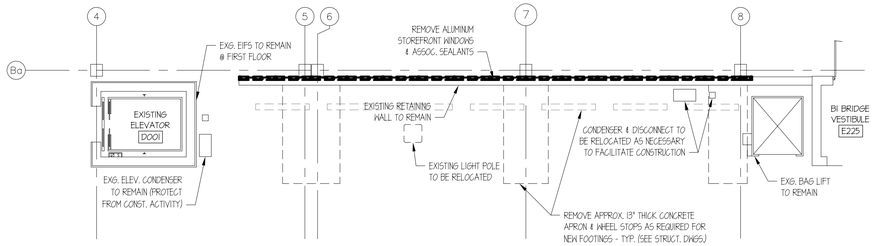
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Fayetteville Regional Airport Airline Terminal Improvements - Part 3
400 Airport Road
Fayetteville, North Carolina 28306

DRAWN BY: JD Pike
REVIEWED BY: G. Johnson
DATE: 7-31-23
PROJECT NO.: 2207
NOTES:

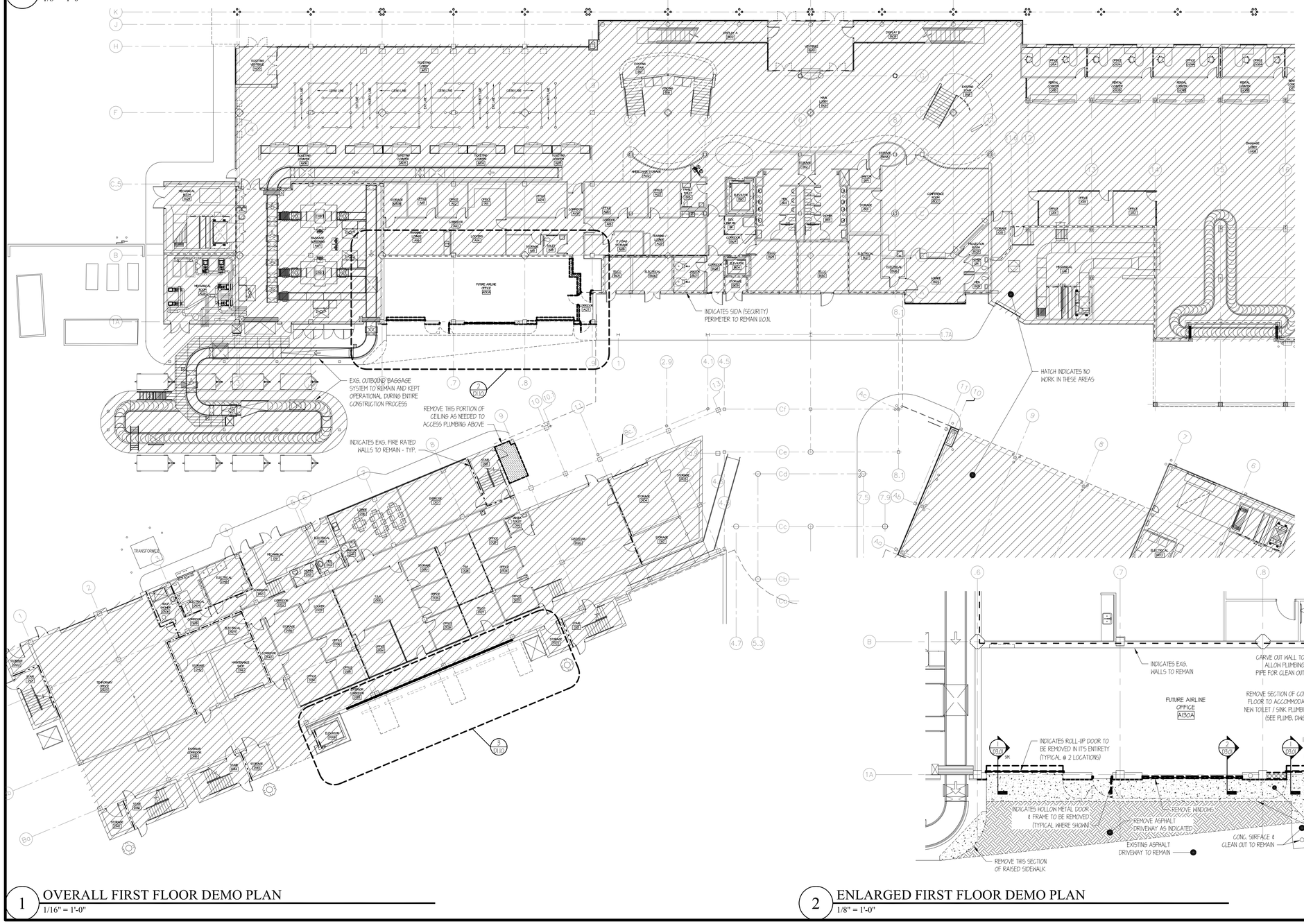
REVISIONS

SHEET NUMBER
T5.1



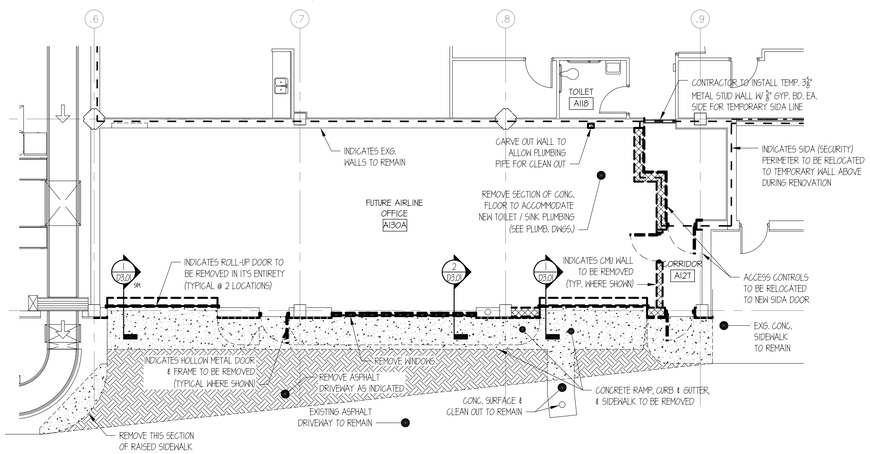
3 ENLARGED FIRST FLOOR DEMO PLAN

1/8" = 1'-0"



1 OVERALL FIRST FLOOR DEMO PLAN

1/16" = 1'-0"



2 ENLARGED FIRST FLOOR DEMO PLAN

1/8" = 1'-0"

DEMOLITION NOTES

1) THE INTENT OF THE DEMOLITION PLANS IT TO SHOW THE GENERAL NATURE OF THE DEMOLITION SCOPE. INCIDENTAL DEMOLITION NOT SHOWN BUT REQUIRED TO ACCOMMODATE NEW WORK IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE JOB SITE AND VERIFYING THE EXISTING CONDITIONS. THE CONTRACTOR SHOULD NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR DIFFICULTIES THAT MIGHT ARISE PRIOR TO EXECUTING THE WORK. IN ADDITION, EXAMINE ALL WORK THAT IS INTENDED TO REMAIN AS PART OF THE COMPLETED PROJECT AND REPORT ALL UNSATISFACTORY CONDITIONS TO THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK. EXERCISE EXTREME CARE DURING DEMOLITION SO AS NOT TO DAMAGE CONSTRUCTION AND OTHER STRUCTURES THAT ARE INTENDED TO REMAIN. ANYTHING DAMAGED AT TIME OF WORK IS TO BE REPAIRED AND/OR REPLACED TO MATCH EXISTING CONSTRUCTION AT THE CONTRACTOR'S EXPENSE.
2) ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL STANDARD LOCAL, NATIONAL, STATE AND FEDERAL SAFETY REQUIREMENTS FOR DEMOLITION.
3) REFER TO ALL OTHER PLANS INCLUDING, BUT NOT LIMITED TO FINISH FLOOR PLANS, ENGINEERING PLANS, ETC., FOR SCOPE OF DEMOLITION WORK. TO BE INCLUDED IN BID AND PRIOR TO COMMENCEMENT OF DEMOLITION. SCHEDULE OF DEMOLITION ACTIVITIES MUST BE COORDINATED WITH CONSTRUCTION PHASING INDICATED IN THESE DRAWINGS.
4) PROVIDE ALL LABOR, MATERIAL, EQUIPMENT AND SERVICES AND PERFORM ALL OPERATIONS REQUIRED FOR COMPLETE DEMOLITION AND RELATED WORK AS DESCRIBED AND SPECIFIED HEREIN, AND AS MAY BE REASONABLY IMPLIED AS NECESSARY TO COMPLETE THE WORK IN ALL RESPECTS.
5) REFER TO ENGINEERING DRAWINGS FOR EXISTING ITEMS TO REMAIN (DUCTWORK, PLUMBING RISERS, ELECTRICAL FEEDS, PANELS, ETC.)
6) WHEN DEMOLITION TAKES PLACE, SHOULD ANY WORK AFFECT THE INTEGRITY OF THE STRUCTURE, WORK MUST STOP IMMEDIATELY, AND THE ARCHITECT BE NOTIFIED. UNDER NO CIRCUMSTANCES SHALL REINFORCING OF ANY KIND BE DAMAGED, CUT OR BROKEN.
7) CONTRACTOR TO REVIEW WITH ARCHITECT, REGARDING ALL ITEMS SCHEDULED FOR RELOCATION. SAID ITEMS TO BE REMOVED CAREFULLY, PROTECTED AND STORED.
8) CONTRACTOR TO COORDINATE AND VERIFY WITH THE OWNER ANY ITEMS TO BE SALVAGED PRIOR TO DEMOLITION. THESE ITEMS MAY INCLUDE, BUT ARE NOT LIMITED TO CASEWORK, LIGHT FIXTURES, DOORS, WINDOWS, EQUIPMENT, EXISTING FURNITURE, CEILING COMPONENTS, SIGNAGE, ETC.
9) DISPOSE OF ALL DEMOLISHED OR REMOVED MATERIALS LEGALLY OFF THE SITE. COMPLY WITH ALL LOCAL HAULING AND DISPOSAL REQUIREMENTS.
10) AN ASBESTOS & LEAD PAINT SURVEY HAS BEEN PERFORMED & RESULTS INDICATE NONE PRESENT.
11) MAINTAIN EXISTING UTILITIES TO REMAIN IN SERVICE AND PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS.
12) UPON COMPLETION, CLEAN THE ENTIRE AREA OF DEMOLITION TO A TIDY, UNIFORM CONDITION REMOVING ALL DEBRIS, DUST PARTITIONS, TEMPORARY WALLS, AND ASSOCIATED MATERIALS USED DURING THE DEMOLITION.
13) EXISTING WALLS, COLUMNS, DOORS, & OTHER BUILDING COMPONENTS TO REMAIN ARE SHOWN AS SOLID LINES.
14) EXISTING WALLS, COLUMNS, DOORS, & OTHER BUILDING COMPONENTS TO BE REMOVED ARE SHOWN AS DASHED LINES. (SEE FLOOR FINISHES PLANS & RCP PLANS FOR THOSE EXS. FINISHES TO BE REMOVED TO ACCOMMODATE NEW FINISHES)
15) NEW CONSTRUCTION INCLUDES INSTALLING / MODIFYING THE EXISTING BUILDING FIRE SPRINKLER SYSTEM.
16) ALL INTERIOR WALLS SHOWN TO BE DEMOLISHED ARE METAL STUDS W/ GYPSUM BOARD FINISHES UNLESS OTHERWISE NOTED.
17) REMOVE ALL CERAMIC WALL TILE IN TOILET ROOMS SCHEDULED FOR NEW WALL TILE. REPAIR WALLS AS REQUIRED TO BE FLAT AND SMOOTH TO RECEIVE NEW WALL TILE FINISH.
18) TEMPORARY PARTITIONS/BARRICADES AND/OR DUST WALLS WILL BE REQUIRED TO SEPARATE THE PUBLIC FROM CONSTRUCTION AREAS. THESE PLANS ARE SCHEMATIC AND MAY NOT SHOW ALL TEMPORARY WALLS NEEDED.
19) ALL EXS. CEILINGS & BULKHEADS INCLUDING SUB-CEILINGS IN ROOMS WHERE NEW CEILING WORK IS SHOWN SHALL BE REMOVED UNLESS NOTED OTHERWISE.
20) REPAIR ALL FLOOR, WALL, & CEILING FINISHES TO REMAIN (WHERE ITEMS WERE REMOVED) WITH SIMILAR FINISHES TO MATCH EXISTING.
21) SCHEDULE OF ALL DEMOLITION WORK TO BE COORDINATED WITH OWNER TO ALLOW FOR FACILITY TO REMAIN OPERATIONAL DURING ALL DEMOLITION AND CONSTRUCTION PERIODS.
22) COORDINATE ACCESS TO SEGURE AREAS WITH OWNER AS REQUIRED. COORDINATE REMOVAL AND RELOCATION OF SEGURITY CHECKPOINTS WITH TSA & OWNER PRIOR TO START OF WORK.
23) EXISTING PLANS HEREIN DESCRIBED ARE DERIVED FROM A COMPILATION OF ORIGINAL BUILDING DOCUMENTS AND DOCUMENTS FOR SUBSEQUENT BUILDING MODIFICATIONS AND/OR RENOVATIONS SUPPLIED TO THE ARCHITECT BY THE OWNER. FIELD VERIFICATION IS ADVISED TO DETERMINE ACCURACY OF ALL EXISTING CONDITIONS.
24) COORDINATE EXTENT AND LOCATION OF WALL DEMOLITION WITH NEW CONSTRUCTION ON OTHER DRAWING SHEETS.
25) SALVAGEABLE ITEMS SUCH AS BUT NOT LIMITED TO, PLUMBING, MECHANICAL & ELECTRICAL FIXTURES, TOILET ACCESSORIES, & DOOR HARDWARE SHALL BE OFFERED TO THE OWNER PRIOR TO DISPOSAL.
26) CONTRACTOR TO PROVIDE SMOOTH TRANSITIONS BETWEEN ITEMS TO BE REMOVED AND EXISTING MATERIALS TO REMAIN TO AVOID PERSONAL INJURY OR DAMAGE TO FINISHES TO REMAIN. CONTRACTOR SHALL PHOTO DOCUMENT ALL EXISTING AREAS TO BE DEMOLISHED AND TURNED OVER TO THE ARCHITECT PRIOR TO START OF DEMO ACTIVITY.
27) CONTRACTOR TO PROVIDE TEMPORARY SIGNAGE AS NEEDED TO REDIRECT AIRPORT VISITORS OUT OF CONSTRUCTION AREA TO EXITS OR ANY OTHER ALTERED PATH OF TRAVEL UNTIL OUT OF CONSTRUCTION AREA.
28) CONTRACTOR IS RESPONSIBLE FOR ALL MEANS & METHODS OF DEMOLITION & RENOVATION U.O.N.
29) CONTRACTOR TO CONTAIN ALL CONSTRUCTION DEBRIS INCLUDING DUST FROM CONTAMINATING AIRCRAFT OPERATIONS. ALL TARMAC AREAS MUST BE KEPT SWEPT CLEAN AT ALL TIMES.

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6194
7 - 31 - 2023
NORTH CAROLINA
FAYETTEVILLE, N.C.

Fayetteville Regional Airport Airline Terminal Improvements - Part 3

First Floor Demo Plans

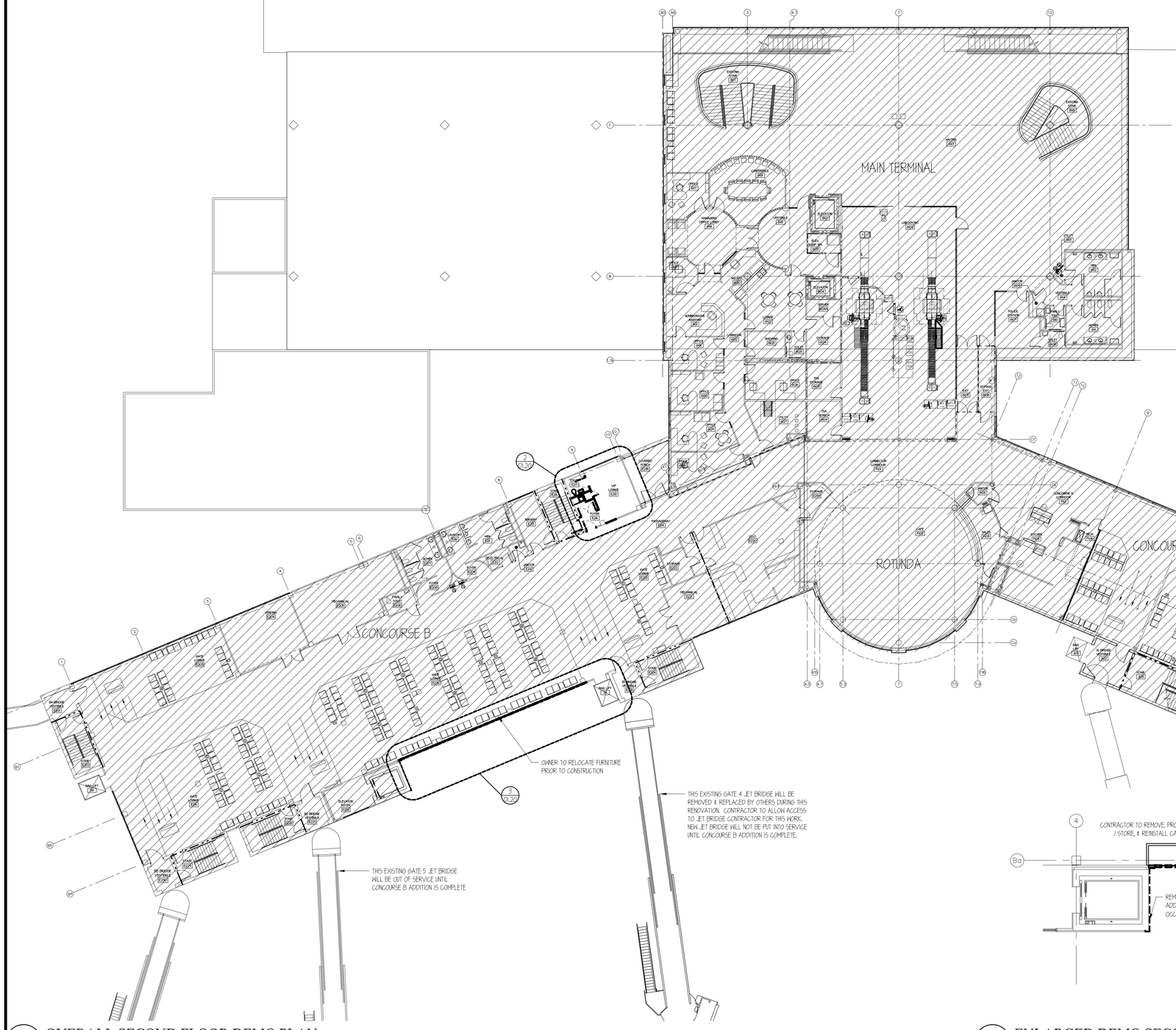
400 Airport Road
Fayetteville, North Carolina 28306

DRAWN BY: JD Pike
REVIEWED BY: G. Johnson
DATE: 7-31-23
PROJECT NO.: 2207
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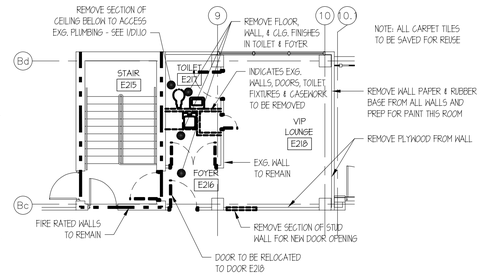
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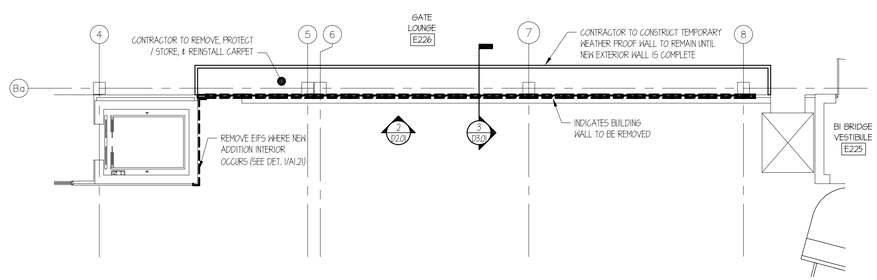
D1.10



1 OVERALL SECOND FLOOR DEMO PLAN
1/16" = 1'-0"



2 ENLARGED DEMO PLAN @ VIP LOUNGE
1/8" = 1'-0"



3 ENLARGED DEMO SECOND FLOOR PLAN @ GATE LOUNGE EXPANSION
1/8" = 1'-0"

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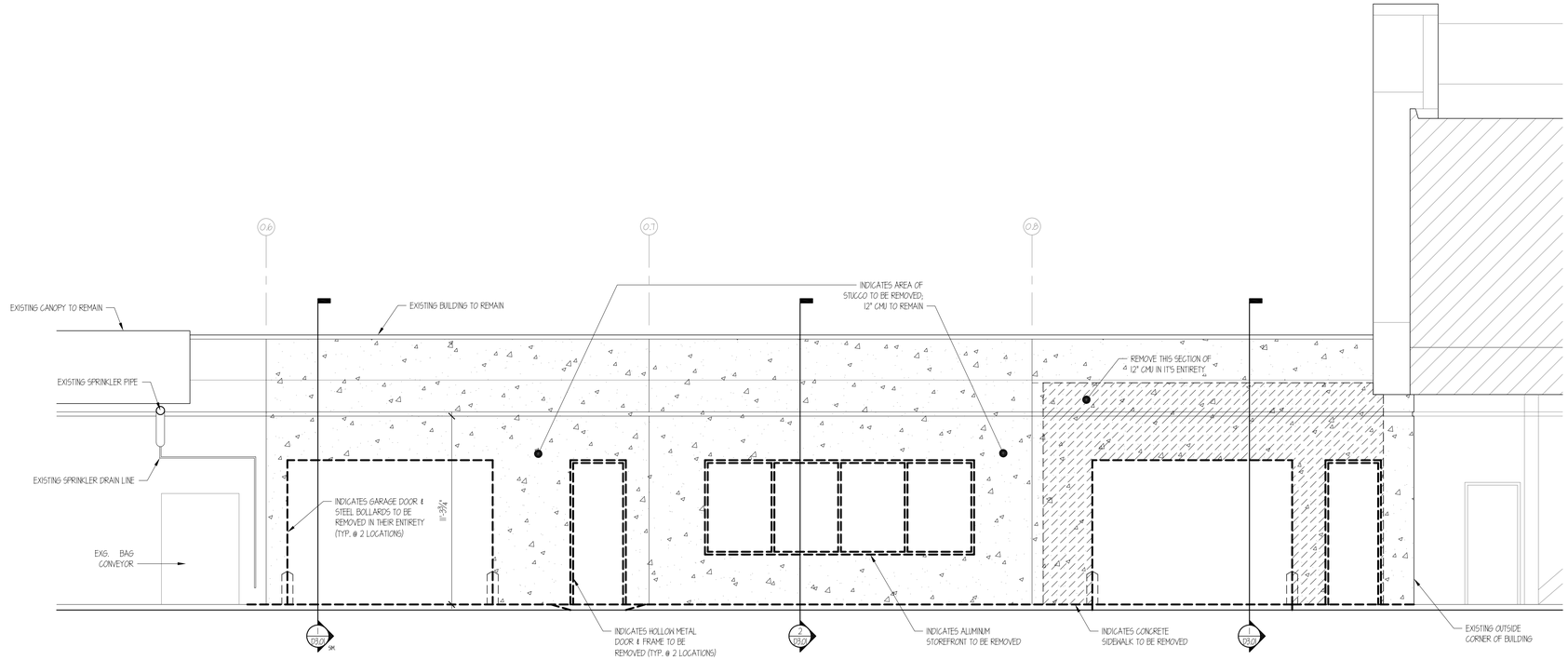
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Second Floor Demo Plans

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REVIEWED BY: G. Johnson
DATE: 7-31-23
PROJECT NO.: 2207
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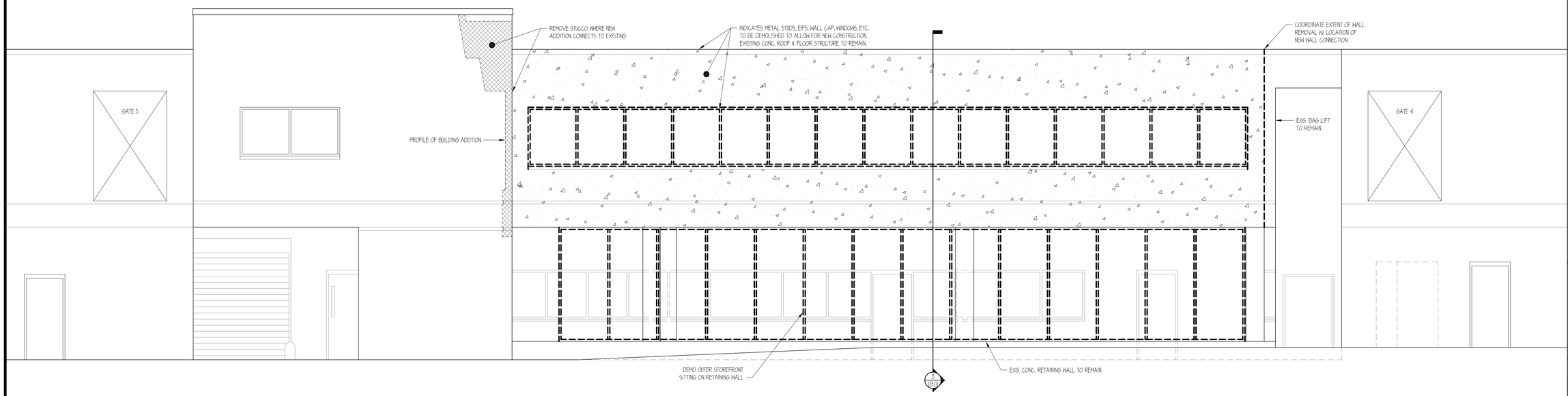
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D1.20



1 DEMO ELEVATION @ NEW OFFICE SUITE

1/4" = 1'-0"



2 DEMO ELEVATION @ CONCOURSE B ADDITION

1/4" = 1'-0"

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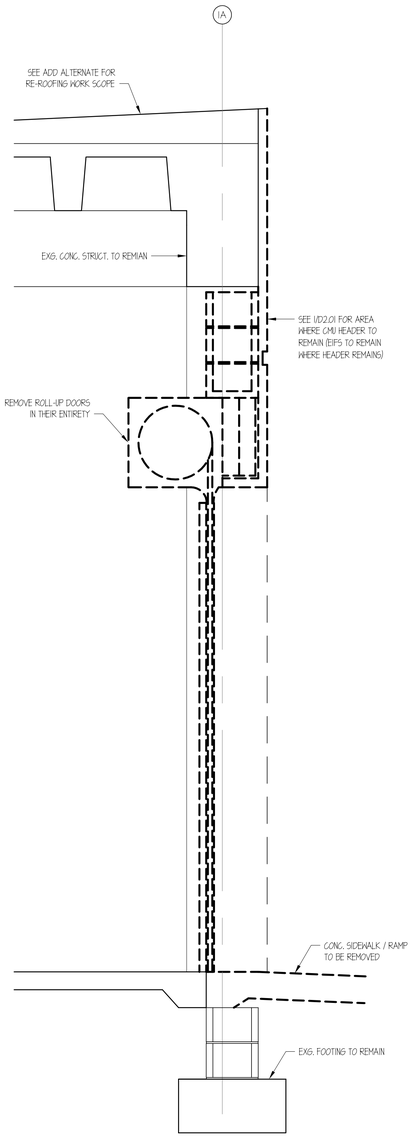
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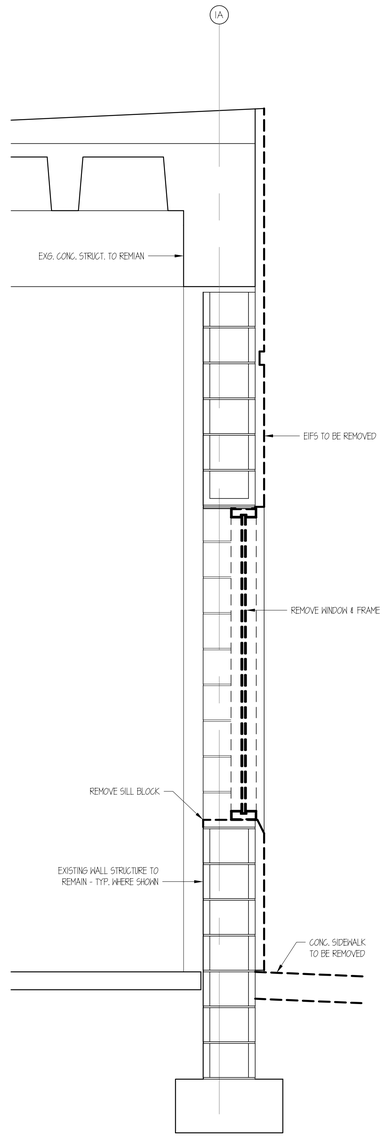
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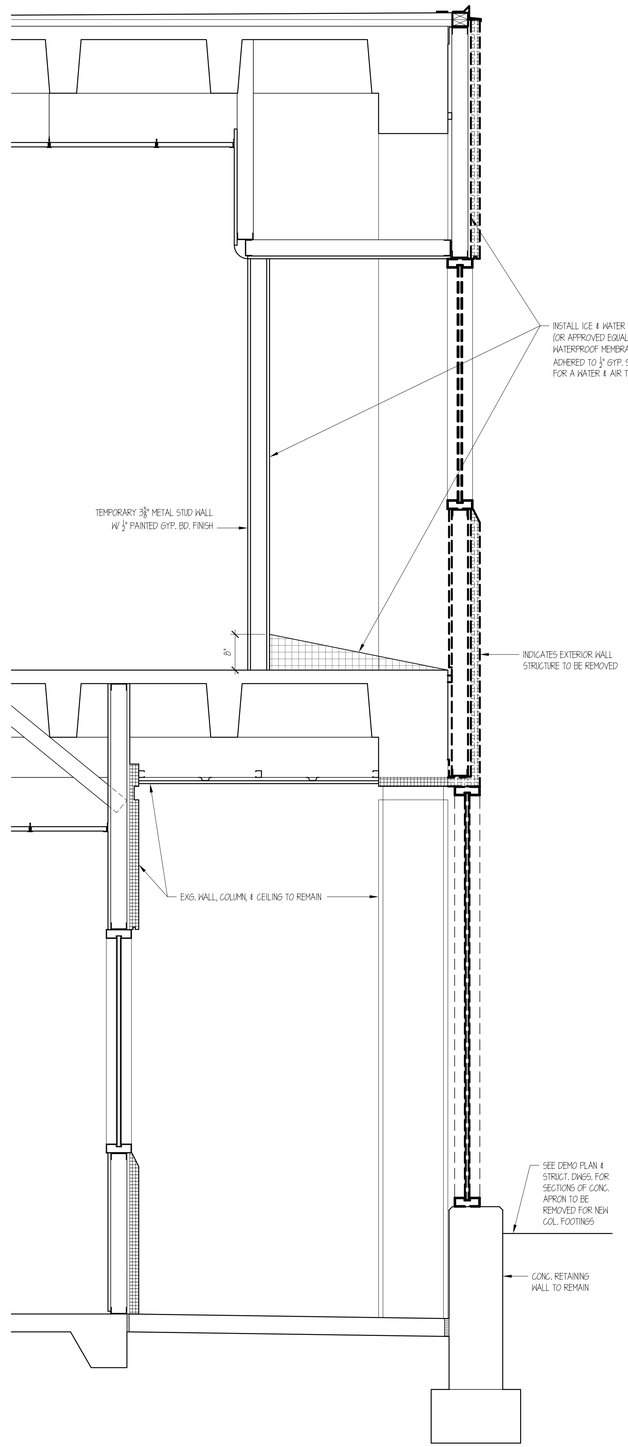
D2.0



1 DEMO SECTION @ ROLL-UP DOOR
3/4" = 1'-0"



2 DEMO SECTION @ WINDOW WALL
3/4" = 1'-0"



3 DEMO SECTION @ GATE LOUNGE EXPANSION
3/4" = 1'-0"

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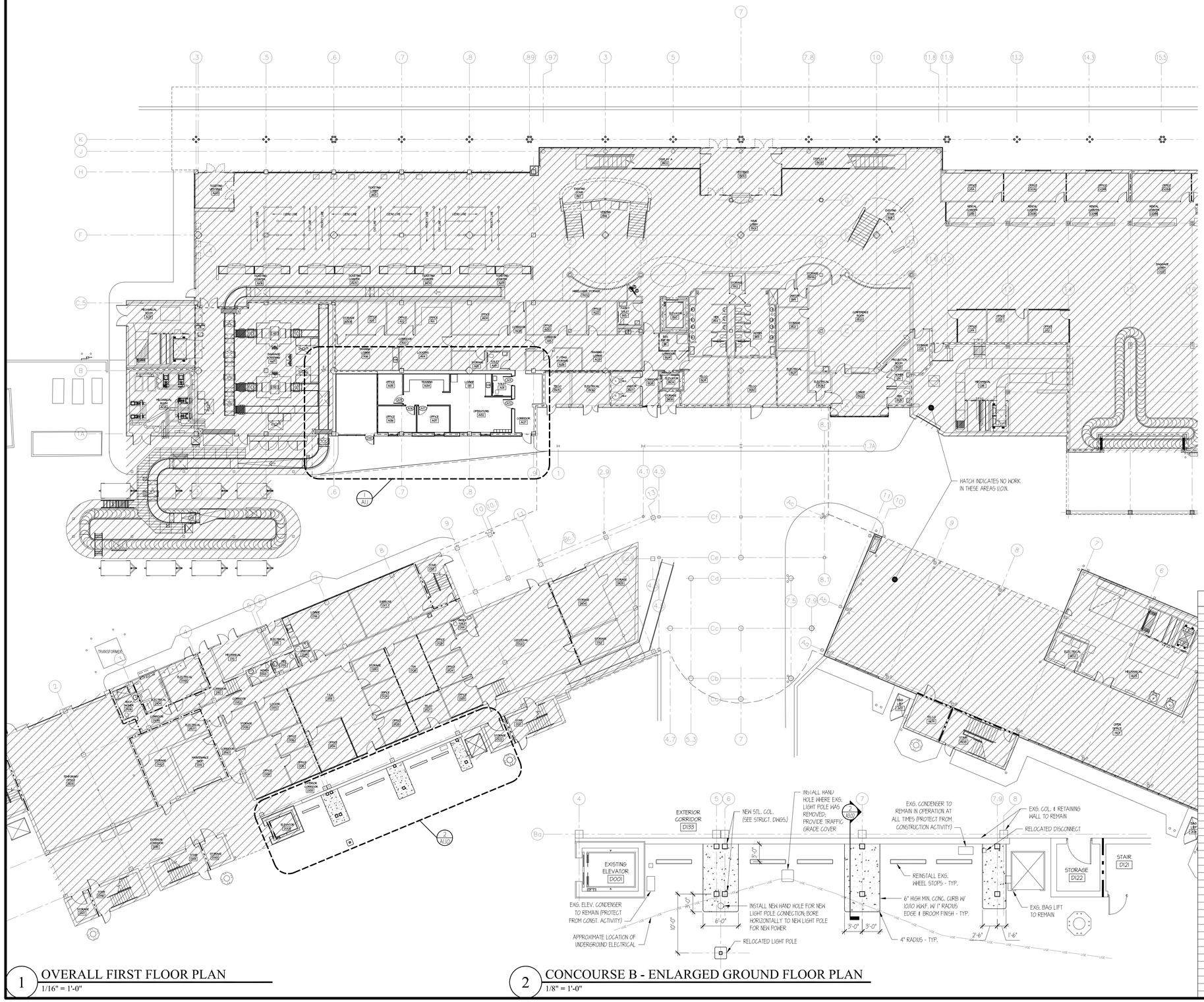
Demolition Sections

400 Airport Road
Fayetteville, North Carolina 28306

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REVIEWED BY: G. Johnson
DATE: 7-31-23
PROJECT NO.: 2207
NOTES:

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D3.01



WALL TYPES

- (A) EXISTING WALLS TO REMAIN
- (B) 3⅝" 22 GA. METAL STUDS @ 16" O.C. W/ ⅝" GYP. BD. EA. SIDE - U.O.N.; ALL WALLS EXTEND TO FLOOR/ROOF DECK U.O.N.
- (C) 6" 16 GA. METAL STUDS W/ 2" FLANGE MIN. @ 16" O.C. W/ ½" GYP. SHTG. & EIFS SYSTEM AS SPECIFIED (EXTERIOR) & ⅝" GYP. BD. ON 6 MIL. PVB (INT.) W/ R-13 FIBERGLASS BATT INSULATION. ALL MTL. STUDS TO BE DESIGNED & SEALED BY AN NC REGISTERED ENGINEER.
- (D) EXISTING CMU WALL W/ ⅝" GYP. BD. ON ½" GALV. MTL. HAT CHANNEL U.O.N.
- (E) ALUMINUM STOREFRONT WINDOW SYSTEM AS SPECIFIED
- INDICATES 1 HR. FIRE PARTITION - TENANT SEPARATION (EXISTING TO REMAIN)
- INDICATES 1 HR. FIRE BARRIER - ELEVATOR / STAIR SHAFT (EXISTING TO REMAIN)
- (F) 8" CMU - FOUNDATION TO FLOOR/ROOF DECK W/ EIFS SYSTEM AS SPECIFIED U.O.N.

GENERAL NOTES

1) ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES.
2) THESE CONSTRUCTION DRAWINGS AND SPECIFICATIONS ARE A SET AND SHALL BE DISTRIBUTED INTACT. IF SETS ARE DISASSEMBLED TO OBTAIN BIDS FROM SUB-CONTRACTORS, GENERAL CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR SUB-CONTRACTOR COORDINATION.
3) DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE NOT INDICATED ON THE DRAWINGS OR CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL REQUEST CLARIFICATION FROM THE ARCHITECT OR BID THE HIGHEST PRICE ALTERNATIVE.
4) "PROVIDE" MEANS FURNISH AND INSTALL, ALL WORK SHOWN SHALL BE BY THE CONTRACTOR UNLESS SPECIFICALLY STATED AS "EXISTING TO REMAIN" OR "BY OWNER".
5) PRIOR TO BIDDING, THE CONTRACTOR SHALL VISIT SITE TO VERIFY EXISTING CONDITIONS, PRODUCTS TO BE USED, AND QUANTITIES REQUIRED. ALL CONTRACTORS REQUIRED TO FIELD VERIFY ALL EXISTING CONDITIONS FOR ALL TRADES INCLUDING DIMENSIONS, CONFIGURATION, AND UTILITY SYSTEMS. BIDS SHALL REFLECT ALL CONSTRUCTION NECESSARY TO COMPLETE WORK REQUIRED WITH CONSIDERATION GIVEN TO EXISTING CONDITIONS TO PROVIDE THE OWNER A FINISHED USABLE FACILITY AS INDICATED ON THESE DRAWINGS.
6) CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY STATE AND LOCAL AUTHORITIES AS A PART OF HIS BASE BID.
7) CONTACT STATE DIGGING HOTLINE FROM THE ONE CALL DIRECTORY PRIOR TO PERFORMING ANY UNDERGROUND UTILITY OR EXCAVATION WORK.
8) GENERAL CONTRACTOR SHALL COORDINATE ALL SITE STAGING, DUMPSTER LOCATION, UTILITIES, EXCAVATION (WHERE APPLICABLE), ETC. WITH THE AIRPORT MANAGER.
9) CONTRACTOR SHALL COORDINATE KEY SCHEDULE WITH THE OWNER PRIOR TO PROJECT SPACE COMPLETION. CLEARLY MARKED KEYS WILL BE TURNED OVER TO OWNER'S REPRESENTATIVE.
10) FIRE EXTINGUISHERS SHALL BE PROVIDED & LOCATED PER LOCAL, STATE, AND FEDERAL CODES. SEE "FE" ON PLANS FOR LOCATIONS.
11) ALL MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURE'S INSTRUCTIONS. IT IS GENERAL CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS OF EQUIPMENT AND MATERIAL WITH SUPPLIERS PRIOR TO ORDERING AND/OR INSTALLATION OF ALL PRODUCTS.
12) INTERIOR WALL AND CEILING FINISHES MUST COMPLY WITH CLASS A FIRE/SMOKE DEVELOPMENT IN SPACES LEADING TO AN EXIT AND ENCLOSED CORRIDORS, AND CLASS A IN OFFICES. SUBMIT RECORDS AND DOCUMENTATION OF MATERIALS FIRE/SMOKE DEVELOPMENT CLASSIFICATION AT SUBMITTAL PHASE AND FOR THE OWNER'S CLOSE OUT RECORDS.
13) FIRE CAULKING SHALL BE PERFORMED AND CERTIFIED FOR PENETRATIONS OF STRUCTURAL, MECHANICAL, ELECTRICAL, AND ARCHITECTURAL ELEMENTS.
14) THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL COSTS NECESSARY TO DISCOVER BURIED OR CONCEALED PLUMBING, MECHANICAL, ELECTRICAL, OR COMMUNICATIONS UTILITIES THAT REQUIRE RELOCATIONS WETHER TEMPORARY OR PERMANENT TO KEEP THE NECESSARY PARTS OF THE AIRPORT TERMINAL FACILITY OPERATIONAL DURING ALL REGULAR HOURS OF SERVICE. ANY DISRUPTION OF UTILITY SERVICE MUST BE APPROVED BY THE ARCHITECT AND AIRPORT MANAGER AT LEAST 48 HRS. PRIOR TO THAT EVENT.
15) CONTRACTOR TO INCLUDE IN HIS BASE BID ALL COSTS ASSOCIATED WITH HIRING A THIRD PARTY MATERIAL TESTING COMPANY TO PROVIDE ALL SOIL, CONCRETE, GROUT, AND ASPHALT TESTING AS SPECIFIED.
16) ALL DOORS TO BE LOCATED 4" FROM ADJACENT WALL OR CENTERED ON WALL UNLESS OTHERWISE DIMENSIONED.
17) CONTRACTOR TO KEEP ALL CONSTRUCTION AREAS CLEAN & MATERIAL CONTAINED FROM AIRBORNE DEBRIS AT ALL TIMES TO PROTECT ONGOING AIRPORT OPERATIONS. CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO AIRPORT FACILITIES, EQUIPMENT OR AIRCRAFT DUE TO HIS NEGLIGENCE.

First Floor Occupancy

Business / Concourse - 23,514 s.f. / 100 gross =	236
Mechanical / Storage - 9,675 s.f. / 300 gross =	33
Bag Claim - 3,464 s.f. / 20 gross =	173
Ticketing Waiting - 1,263 s.f. / 15 gross =	84
Total Occupant Load =	526

LIST OF STANDARD ABBREVIATIONS

ADJ.	ADJUSTABLE	LAM.	LAMINATE
ALUM, AL.	ALUMINUM	LVR.	LOUVER
AWI.	AMERICAN WOODWORKING INST.	MC.	MEDICINE CABINET
BD.	BOARD	MO.	MASONRY OPENING
BLKG.	BLOCKING	MAS.	MASONRY
BOT.	BOTTOM	MATL.	MATERIAL
BR.	BEDROOM	MECH.	MECHANICAL
BRG.	BEARING	MLD.	MOULDING
BRK.	BRICK	MTL.	METAL
CPL, CPLG.	COUNTERFLASHING	MFG.	MANUFACTURER
C.J.	CONTROL JOINT	N.I.C.	NOT IN CONTRACT
CER.	CERAMIC	N.T.S.	NOT TO SCALE
C.T.	CERAMIC TILE	O.C.	ON CENTER
CL.	CENTER LINE	OPG.	OPENING
C.I.	CAST IRON	PL.	PLATE
CLG.	CEILING	PLAS.	PLASTIC
CMU.	CONCRETE MASONRY UNIT	PLY, PLYWD.	PLYWOOD
COL.	COLUMN	POLY.	POLYETHYLENE
CONC.	CONCRETE	PT.	PAINT
CRS.	COURSE	PR.	PAIR
CONT.	CONTINUOUS	R.W.	RIGHT OF WAY
COP.	COPPER	R. RAD.	RADIUS
D.S.	DOWNSPOUT	REINF.	REINFORCING
DIA.	DIAMETER	R.O.	ROUGH OPENING
DIM.	DIMENSION	REQ'D.	REQUIRED
DN.	DOWN	RM.	ROOM
EA.	EACH	SHT.	SHEET
E.J.	EXPANSION JOINT	SHTG., SHTHG.	SHEATHING
EL.	ELEVATION	SIM.	SIMILAR
EW.	EACH WAY	S.S.	STAINLESS STEEL
EXG.	EXISTING	S.Y.P.	SOUTHERN YELLOW PINE
EXT.	EXTERIOR	ST.	STAIN
EXP.	EXPANSION	STL.	STEEL
F.B.O.	FURNISHED BY OWNER	T.B.	TOWEL BAR
FBRGL.	FIBERGLASS	T/	TOP OF
FDN.	FOUNDATION	T&G	TONGUE AND GROOVE
FIN.	FINISH	THK.	THICK
FLG.	FLASHING	TRTD.	TREATED
FL.	FLOOR	TYP.	TYPICAL
FTG.	FOOTING	U.O.N.	UNLESS OTHERWISE NOTED
GA.	GAUGE	U.G.	UNDERLAYMENT
GALV.	GALVANIZED	V.B.	VAPOR BARRIER
G.C.	GENERAL CONTRACTOR	VERT.	VERTICAL
GR.	GRADE	W/	WITH
GWB, GYP. BD.	GYPSUM WALL BOARD	W/O	WITHOUT
HT.	HEIGHT	W.	WIDE
HDW.	HARDWARE	WD.	WOOD
INSUL.	INSULATION	WM.	WOOD MOULD
INT.	INTERIOR	WS.	WEATHER STRIPPING
JT.	JOINT	V.C.T.	VINYL COMPOSITION TILE
JST.	JOIST	V.W.C.	VINYL WALL COVERING
L.	LONG	WWF.	WELDED WIRE FABRIC

1 OVERALL FIRST FLOOR PLAN
1/16" = 1'-0"

2 CONCOURSE B - ENLARGED GROUND FLOOR PLAN
1/8" = 1'-0"

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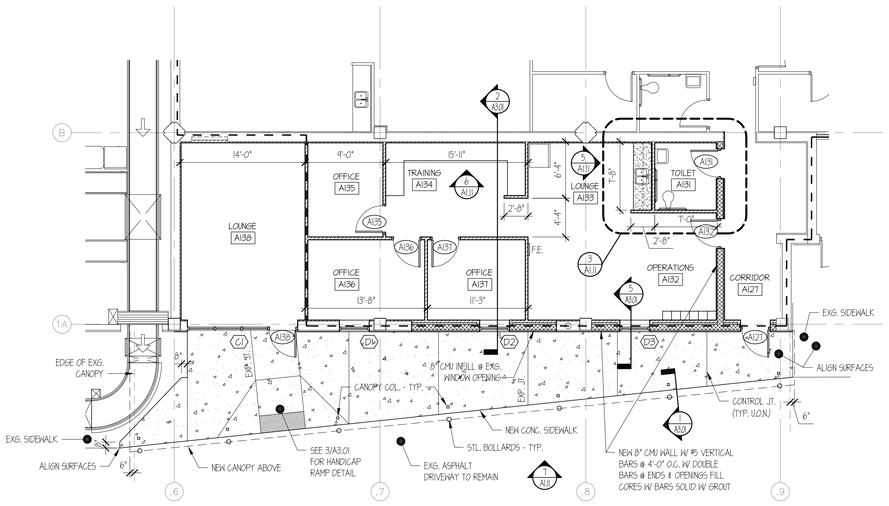
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Fayetteville, North Carolina 28306

Overall First Floor Plan, Concourse B Enlarged First Floor Plan, Notes, Wall Schedule, & Abbreviations

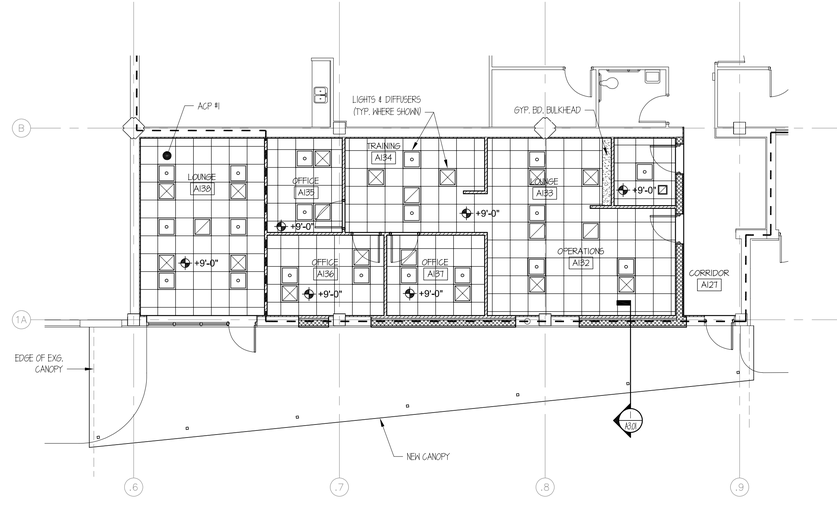
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NOTES:

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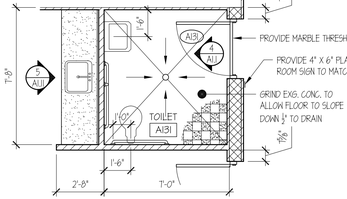
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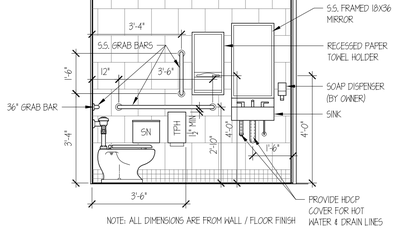
1 AIRLINE OFFICE ENLARGED PLAN
1/8" = 1'-0"



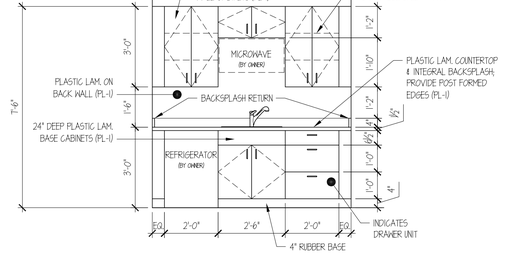
2 AIRLINE OFFICE REFLECTED CEILING PLAN
1/8" = 1'-0"



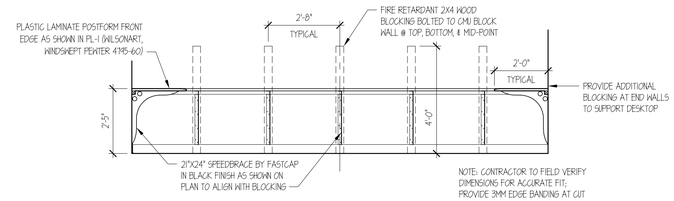
3 TOILET A131 ENLARGED PLAN
1/4" = 1'-0"



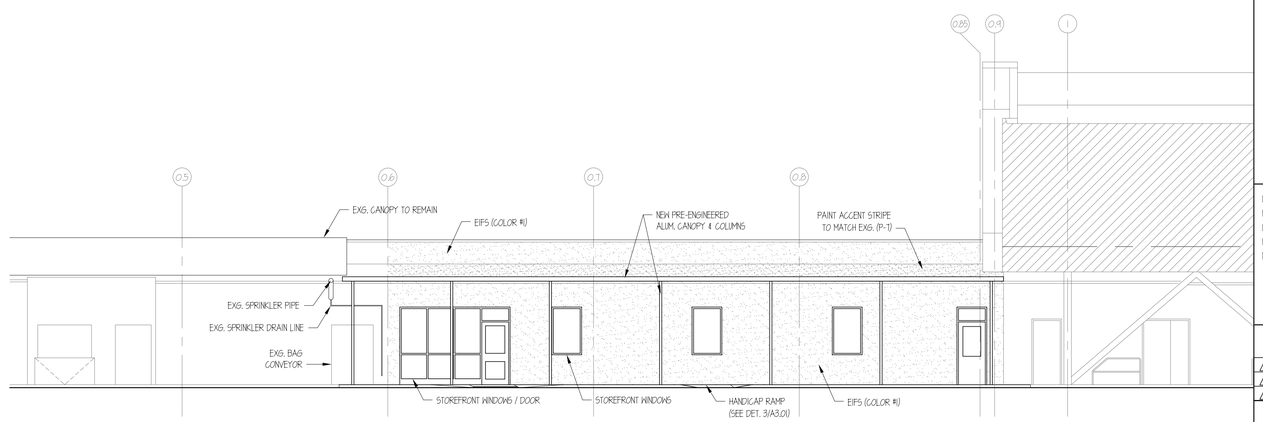
4 TOILET A131 ELEVATION
3/8" = 1'-0"



5 CASEWORK @ LOUNGE A133
3/8" = 1'-0"



6 CASEWORK @ TRAINING A134
3/8" = 1'-0"



7 SOUTH ELEVATION @ TICKETING WING
1/8" = 1'-0"

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FAYETTEVILLE, N.C.

Fayetteville Regional Airport Airline Terminal Improvements - Part 3

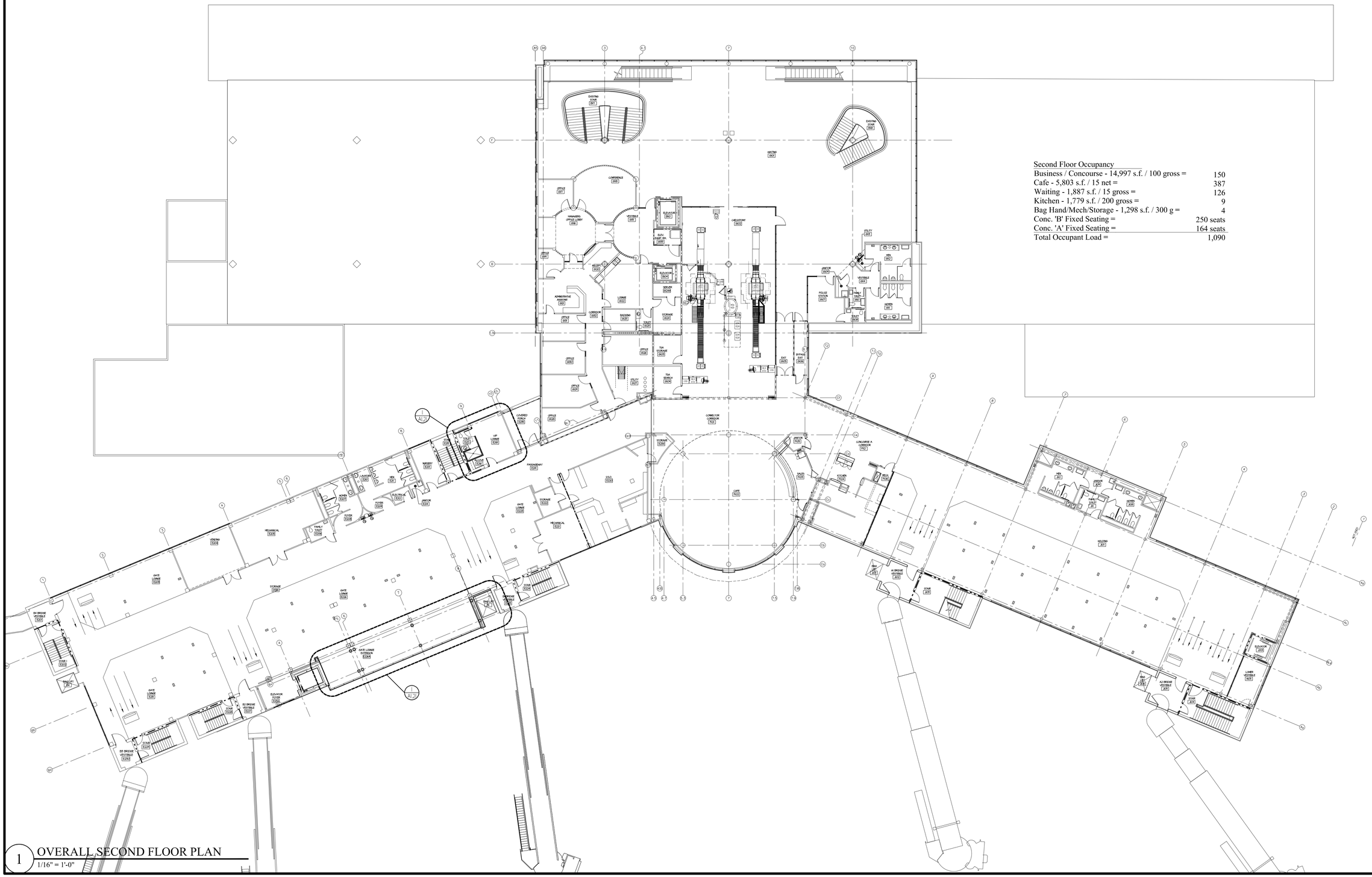
Airline Office Renovation Enlarged Plans, Interior & Exterior Elevations & Casework Details

400 Airport Road
Fayetteville, North Carolina 28306

DRAWN BY: JD Pike
REVIEWED BY: G. Johnson
DATE: 7-31-23
PROJECT NO.: 2207
NOTES:

REVISIONS

SHEET NUMBER
A1.11



1 OVERALL SECOND FLOOR PLAN
1/16" = 1'-0"

Second Floor Occupancy	
Business / Concourse - 14,997 s.f. / 100 gross =	150
Cafe - 5,803 s.f. / 15 net =	387
Waiting - 1,887 s.f. / 15 gross =	126
Kitchen - 1,779 s.f. / 200 gross =	9
Bag Hand/Mech/Storage - 1,298 s.f. / 300 g =	4
Conc. 'B' Fixed Seating =	250 seats
Conc. 'A' Fixed Seating =	164 seats
Total Occupant Load =	1,090

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GORDON ELLISON JOHNSON
REGISTERED ARCHITECT
6194
7 - 31 - 2023
NORTH CAROLINA
FAYETTEVILLE, N.C.

Fayetteville Regional Airport Airline Terminal Improvements - Part 3

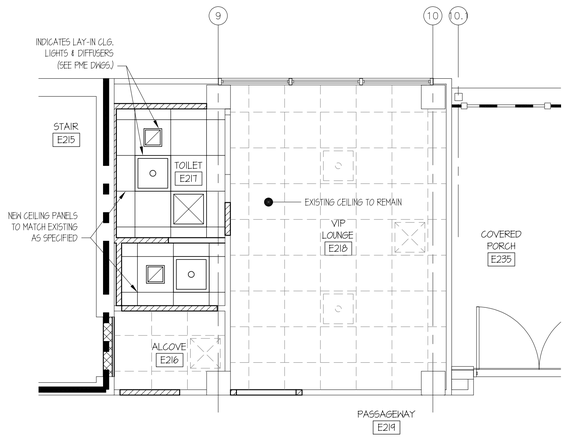
Overall Second Floor Plan

400 Airport Road
Fayetteville, North Carolina 28306

DRAWN BY: JD Pike
REVIEWED BY: G. Johnson
DATE: 7-31-23
PROJECT NO.: 2207
NOTES:

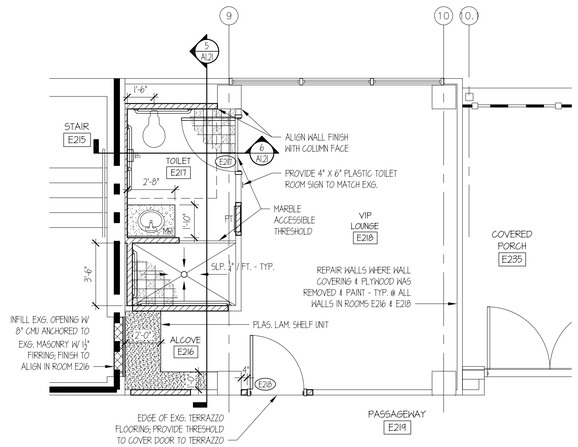
REVISIONS

SHEET NUMBER
A1.20



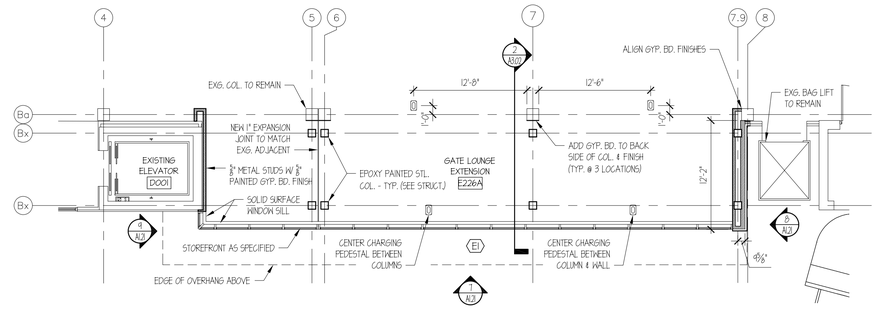
3 REFLECTED CEILING PLAN @ ALCOVE E216 / E217

1/4" = 1'-0"



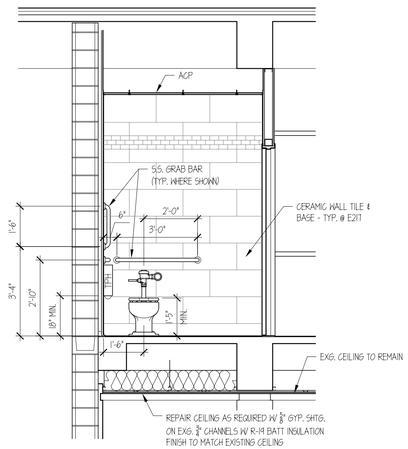
2 ENLARGED PLAN @ ALCOVE E216 / TOILET E217

1/4" = 1'-0"



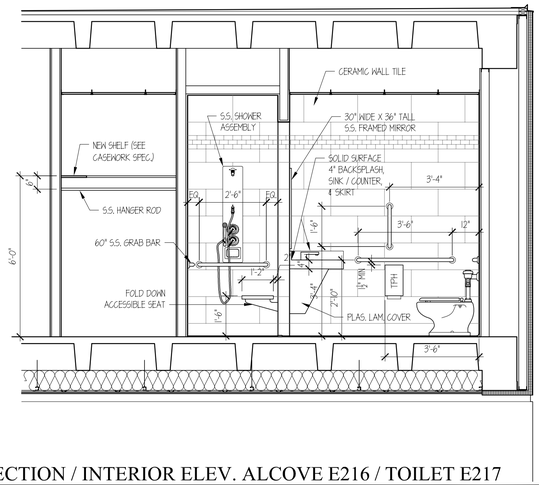
1 ENLARGED FLOOR PLAN @ CONCOURSE B ADDITION

1/8" = 1'-0"



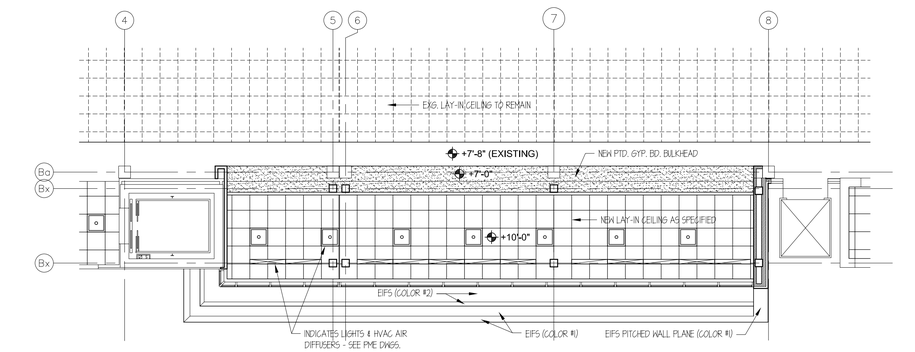
6 SECTION / INTERIOR ELEV. @ TOILET E217

3/8" = 1'-0"



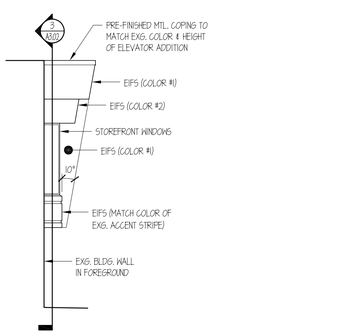
5 SECTION / INTERIOR ELEV. ALCOVE E216 / TOILET E217

3/8" = 1'-0"



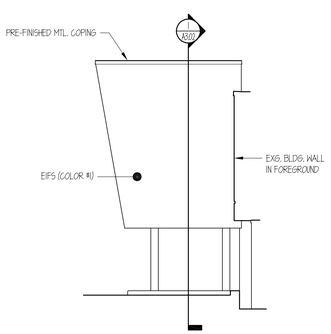
4 REFLECTED CEILING PLAN @ CONCCOURSE B ADDITION

1/8" = 1'-0"



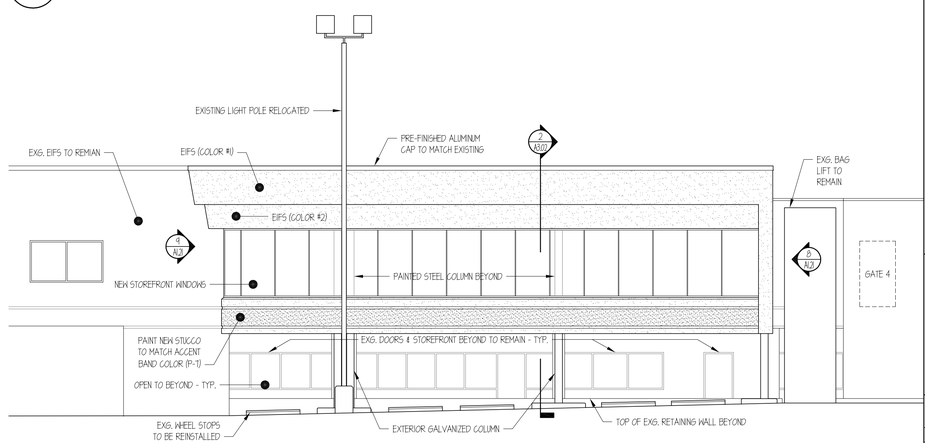
9 WEST ELEVATION @ CONCOURSE B ADDITION

1/8" = 1'-0"



8 EAST ELEVATION @ CONCOURSE B ADDITION

1/8" = 1'-0"



7 SOUTH ELEVATION @ CONCOURSE B ADDITION

1/8" = 1'-0"

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FAYETTEVILLE, N.C.

Fayetteville Regional Airport Airline Terminal Improvements - Part 3

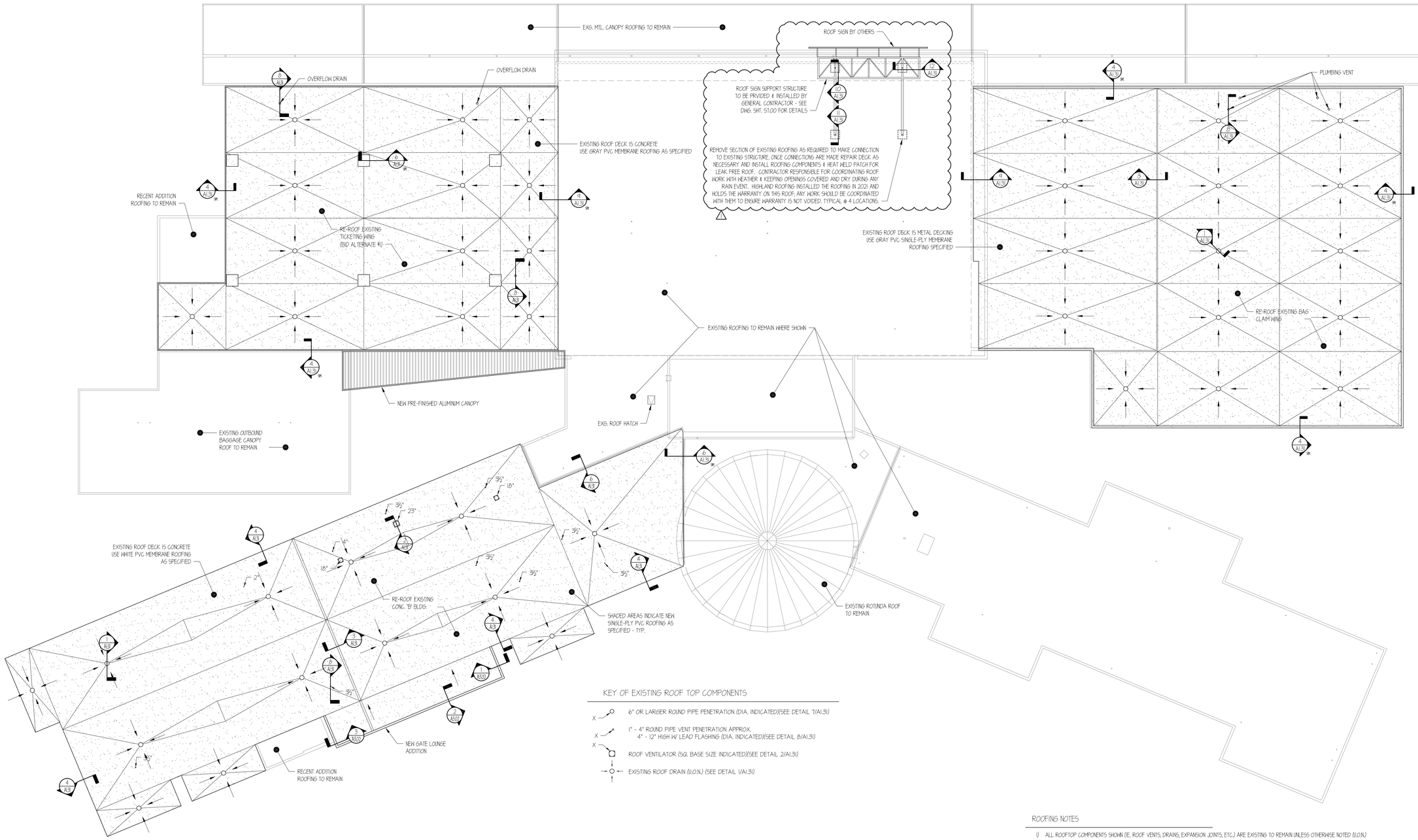
400 Airport Road
Fayetteville, North Carolina 28306

Concourse B Addition & VIP Lounge Renovation
Enlarged Plans, Elevations & Sections

DRAWN BY: JD Pike
REVIEWED BY: G. Johnson
DATE: 7-31-23
PROJECT NO.: 2207
NOTES:

REVISIONS

SHEET NUMBER
A1.21



KEY OF EXISTING ROOF TOP COMPONENTS

- X — 6" OR LARGER ROUND PIPE PENETRATION (DIA. INDICATED)(SEE DETAIL 7/A1.31)
- X — 1" - 4" ROUND PIPE VENT PENETRATION APPROX. 4" - 12" HIGH W/ LEAD FLASHING (DIA. INDICATED)(SEE DETAIL 8/A1.31)
- X — ROOF VENTILATOR (SQ. BASE SIZE INDICATED)(SEE DETAIL 2/A1.31)
- EXISTING ROOF DRAIN (U.O.N.) (SEE DETAIL 1/A1.31)

ROOFING NOTES

1) ALL ROOFTOP COMPONENTS SHOWN (IE. ROOF VENTS, DRAINS, EXPANSION JOINTS, ETC.) ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED (U.O.N.)
2) SEE DETAILS ON A1.31 FOR ALL TYPICAL RENOVATION DETAILS.
3) ALL WOOD BLOCKING IS EXISTING TO REMAIN U.O.N. (UNLESS OTHERWISE NOTED). IF ROTTEN WOOD IS DISCOVERED CONTACT ARCHITECT FOR REVIEW AND DIRECTION.
4) ALL NEW METAL COPING TO BE AS SPECIFIED IN FINISH & COLOR TO MATCH EXISTING.
5) EXISTING BUILT-UP 4-PLY ROOF MEMBRANE & INSULATION TO REMAIN. CONTRACTOR TO REMOVE STONE COVERING AT ALL AREAS INDICATING NEW ROOFING. CONTRACTOR TO FULLY ADHERE ALL NEW ROOFING COMPONENTS. BIDDERS ARE NOT ALLOWED TO DO THEIR OWN PULL TEST ON THIS DECK. CONTRACTOR TO REVIEW WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE ANY ROOF AREAS THAT MAY BE SUSPECT FOR CONTAINING WET INSULATION, BASE SHEET, EXISTING COVER BOARD OR DAMAGED METAL DECK AND, IF FOUND, TO DETERMINE THE TOTAL AREA OF DAMAGED MATERIAL AND PROPOSE A CHANGE ORDER FOR REPLACING THE SAME.
6) PROVIDE AND INSTALL NEW PVC SINGLE-PLY MEMBRANE, COVER BOARD, & 1" EXTRUDED POLYSTYRENE INSULATION BOARD AS SPECIFIED OVER ENTIRE ROOF AREA AS INDICATED ON THIS PLAN.
7) THE OWNER HAS CONFIRMED THAT NO ASBESTOS CONTAINING MATERIALS WERE USED TO CONSTRUCT THE EXISTING ROOF.
8) ALL CONSTRUCTION DEBRIS SHALL BE HAULED OFF SITE AND LEGALLY DUMPED AT THE CONTRACTOR'S EXPENSE.
9) SEE ADDITIONAL GENERAL NOTES ON A1.10.

1 ROOF PLAN
1/16" = 1'-0"

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7 - 31 - 2023
NORTH CAROLINA
FAYETTEVILLE, N.C.

Fayetteville Regional Airport Airline Terminal Improvements - Part 3

400 Airport Road
Fayetteville, North Carolina 28306

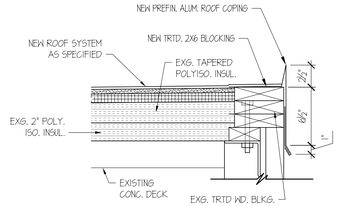
Roof Plan

DRAWN BY: JD Pike
REVIEWED BY: G. Johnson
DATE: 7-31-23
PROJECT NO.: 2207
NOTES:

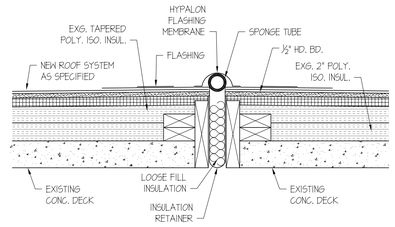
REVISIONS

1	8-11-23	ADDED ROOF SIGN STRUCTURE
2		
3		

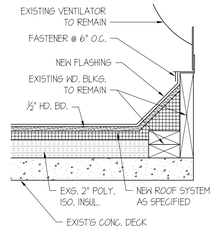
SHEET NUMBER
A1.30



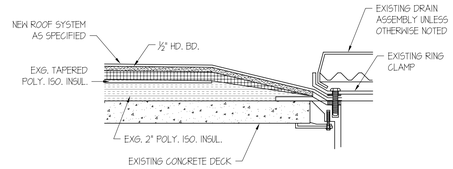
4 ROOF EDGE DETAIL
1 1/2" = 1'-0"



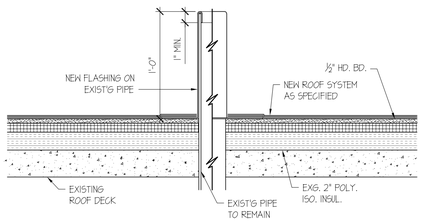
3 EXPANSION JOINT DETAIL
1 1/2" = 1'-0"



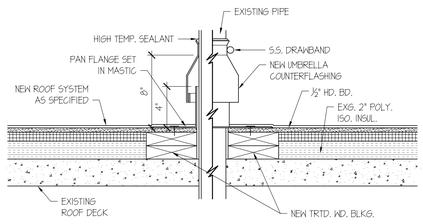
2 ROOF VENTILATOR DETAIL
1 1/2" = 1'-0"



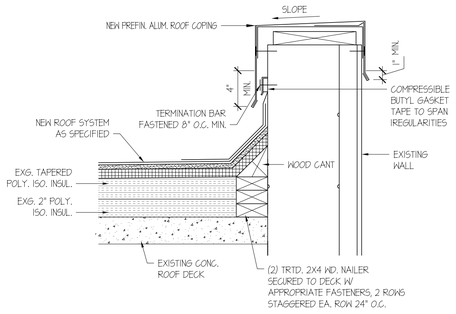
1 ROOF DRAIN DETAIL
1 1/2" = 1'-0"



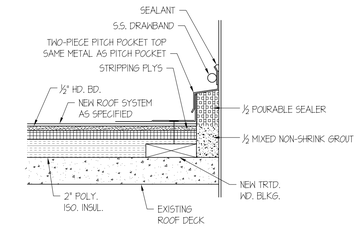
8 VENT / OVERFLOW PIPE DETAIL
1 1/2" = 1'-0"



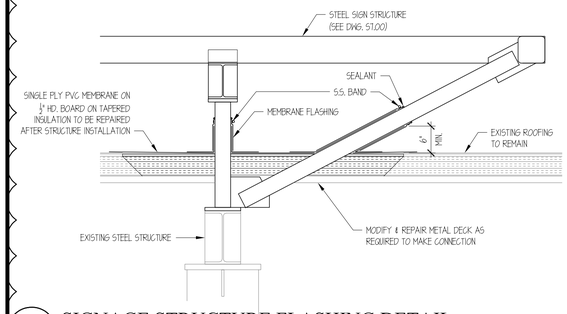
7 ROUND PIPE FLASHING DETAIL
1 1/2" = 1'-0"



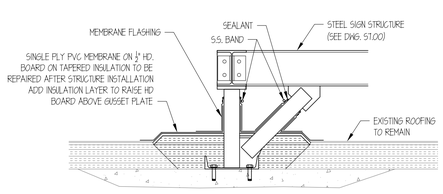
6 PARAPET WALL DETAIL
1 1/2" = 1'-0"



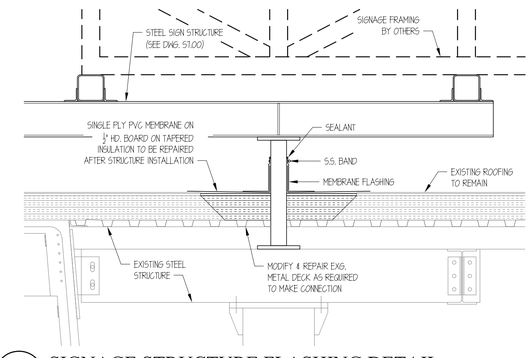
5 PITCH POCKET DETAIL
1 1/2" = 1'-0"



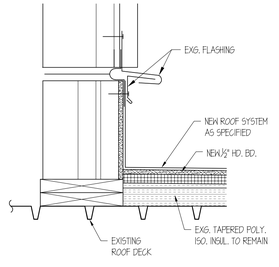
12 SIGNAGE STRUCTURE FLASHING DETAIL
3/4" = 1'-0"



11 SIGNAGE STRUCTURE FLASHING DETAIL
3/4" = 1'-0"



10 SIGNAGE STRUCTURE FLASHING DETAIL
3/4" = 1'-0"



9 WALL FLASHING DETAIL
1 1/2" = 1'-0"

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6194
7 - 31 - 2023
NORTH CAROLINA
FAYETTEVILLE, N.C.

Improvements - Part 3
Roof Details

Fayetteville Regional Airport Airline Terminal Improvements
400 Airport Road
Fayetteville, North Carolina 28306

DRAWN BY: JD Pike
REVIEWED BY: G. Johnson
DATE: 7-31-23
PROJECT NO.: 2207
NOTES:

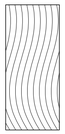
REVISIONS

1	8-17-23	ADDED ROOF DETAILS
2		
3		

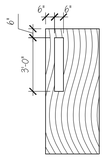
SHEET NUMBER
A1.31

DOOR SCHEDULE

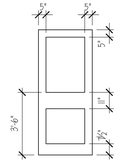
DOOR							FRAME					NOTES
#	TYPE	WIDTH	HEIGHT	THICK.	MAT.	FINISH	TYPE	MAT.	FINISH	HEAD / JAMB	HDW. SET	
A127	D	3'-0"	7'-0"	1 3/4"	H.M.	PAINT	A	H.M.	P-3	3/A1.40	1	
A131	A				WOOD	STAIN				4/A1.40	2	
A132	B						↓	↓	↓	↓	3	
A135							B			5/A1.40		
A136										6/A1.40		
A137	↓				↓	↓	↓	↓	↓		↓	
A138	C				ALUM.	ANOD.	C	ALUM.	ANOD.	↓	4	
E217	A	↓	↓	↓	WOOD	STAIN	A	H.M.	P-3	5/A1.40	2	
E218	EXISTING TO BE RELOCATED						EXISTING TO BE RELOCATED					



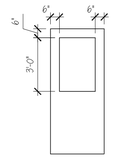
TYPE "A"
WD. S.C. DOOR
W/ ROTARY SLICED
OAK VENEER



TYPE "B"
WD. S.C. DOOR
W/ ROTARY SLICED OAK VENEER
W/ ¼" LAM. TYPE GL-3 GLASS

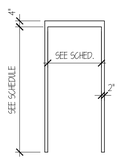


TYPE "C"
DARK BRONZE ANOD. ALUM.
"WIDE STYLE" DOOR W/ ¼" LAM.
TYPE GL-3 GLASS

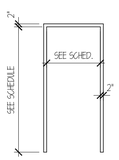


TYPE "D"
16 GA. INSULATED H.M.
DOOR W/ 1" INSUL. LAM.
TYPE GL-3 GLASS

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

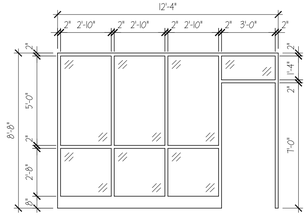


TYPE 'A'
14 GA. H.M. FRAME

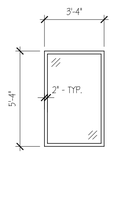


TYPE 'B'
16 GA. H.M. FRAME

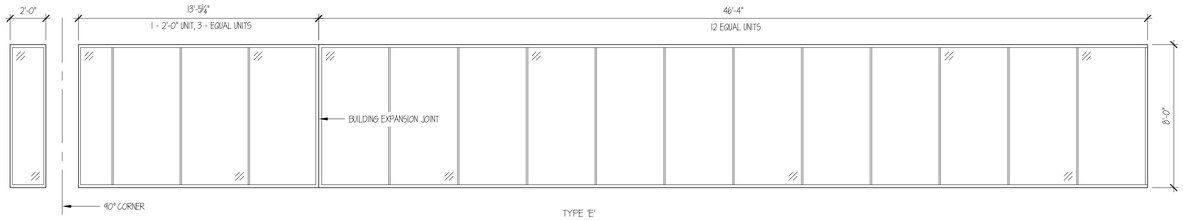
NOTE: ALL HOLLOW METAL (H.M.) FRAMES ARE 5⅞" DEEP U.O.N.



TYPE 'C'
DARK BRONZE ANODIZED
ALUMINUM 4½" DEEP "KAWNEER
451T OR APPROVED EQUAL
STOREFRONT W/ 1" INSUL. TYPE
GL-5 GLASS

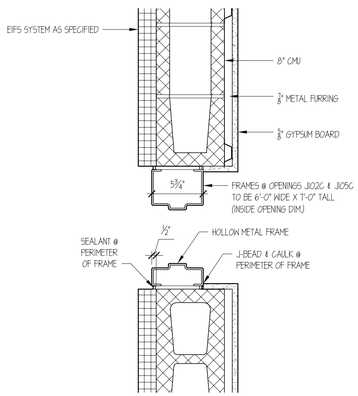


TYPE 'D'
DARK BRONZE ANODIZED
ALUMINUM 4½" DEEP "KAWNEER
451T OR APPROVED EQUAL
STOREFRONT W/ 1" INSUL. TYPE
GL-4 GLASS

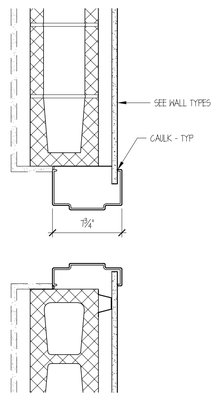


TYPE 'E'
DARK BRONZE ANODIZED ALUMINUM 6¼" DEEP
CLEARWALL STOREFRONT W/ 1" INSUL. TYPE GL-5 GLASS
AS MFG. BY KAWNEER OR PRE-APPROVED EQUAL
PROVIDE STRUCTURAL REINFORCEMENT AS REQ'D

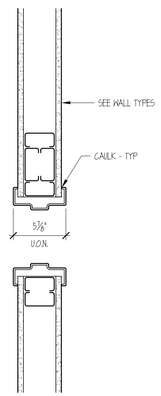
2 DOOR & WINDOW FRAME TYPES
1/4" = 1'-0"



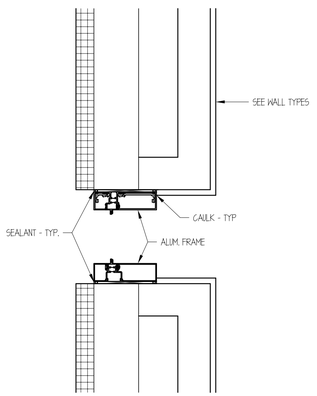
3 DOOR FRAME DETAIL
1 1/2" = 1'-0"



4 DOOR FRAME DETAIL
1 1/2" = 1'-0"



5 DOOR FRAME DETAIL
1 1/2" = 1'-0"



6 DOOR FRAME DETAIL
1 1/2" = 1'-0"

HARDWARE SETS

SET #1: 3) BUTT HINGES
1) ENTRANCE LOCKSET W/ PANIC DEVICE
1) ELECTRONIC LATCH W/ 2 PROXY READERS
1) CLOSER
1) ALUM. THRESHOLD
1) WEATHER STRIP

SET #2: 3) BUTT HINGES
1) PRIVACY SET
1) CLOSER
3) DOOR SILENCERS

SET #3: 3) BUTT HINGES
1) OFFICE LOCKSET
3) DOOR SILENCERS
1) WALL STOP

SET #4: 1) CONTINUOUS ALUMINUM GEARED HINGE
1) PASSAGE LOCKSET
1) CLOSER
1) WEATHER STRIP
1) ALUMINUM THRESHOLD

FINISH SCHEDULE

ROOM		FLOORS		WALLS		CEILINGS		REMARKS
#	NAME	MATERIAL	BASE	MATERIAL	FINISH	MATERIAL	FINISH	
A127	VESTIBULE	VCT-1	RB-1	GYPSUM BOARD	P-1	ACP-1	FACTORY	
A131	TOILET	CT-3	CTB-1	CT-4 / CT2	FACTORY			
A132	OPERATIONS	VCT-1	RB-1	GYPSUM BOARD	P-1			
A133	LOUNGE							
A134	TRAINING							
A135	OFFICE							
A136	OFFICE							
A137	OFFICE							
A138	LOUNGE	↓	↓	↓	↓	↓	↓	
E216	FOYER	CPT-1	RB-1	↓	↓			
E217	TOILET	CT-3	CTB-1	CT-1 / CT2	FACTORY			
E218	VIP LOUNGE	CPT-1	RB-1	GYPSUM BOARD	P-1			
E236A	GATE LOUNGE EXTENSION	↓	↓	↓	P-1 / P-5	↓	↓	

FINISH SCHEDULE NOTES

1) SEE FLOOR PLAN FOR FLOOR FINISHES, LOCATIONS, AND TYPE.
2) GATE LOUNGES AT SECOND FLOOR CONCOURSE B (E2XX) SHOULD BE PAINT P-5 BELOW WINDOW SILL (APPROX. 3'-0") AND PAINT P-1 FROM WINDOW SILL TO CEILING ABOVE.
3) PROVIDE TRANSITION STRIP WHERE DIFFERENT FLOOR FINISHES MEET. TRANSITION STRIP SHOULD BE UNDER DOOR LEAF. MATERIAL TO BE MARBLE NEXT TO TILE FLOORING, PROVIDE MTS-1 OTHERWISE.

GENERAL FINISH NOTES

A) SEE RCP PLANS FOR CEILING HEIGHTS & SPECIFIC FINISH DETAILS
B) CLEAN & POINT UP ALL EXG. CMU SCHEDULED FOR A PAINT FINISH

FINISH LEGEND

ITEM	DESCRIPTION
CPT-1	CARPET TILE AS SPECIFIED
CPT-2	SHAW CONTRACT STEPPIN OUT WELCOME II, 24" X 24" CARPET TILE 5T031; COLOR: MULTICOLOR 31481
VCT-1	ARMSTRONG STANDARD EXCELON VINYL COMPOSITION TILE, 12" X 12", COLOR #51427 FIELD GRAY
VCT-2	ARMSTRONG STANDARD EXCELON VINYL COMPOSITION TILE, 12" X 12", COLOR #51858 SANDRIFT WHITE
SDT-1	FLEXCO ESD 12" X 12", COLOR #40 WHITE/GRAY
TR-1	DAVID ALLEN COMPANY FAYETTEVILLE AIRPORT OHDAC16 TZ9050616 (WHITE)
TR-2	DAVID ALLEN COMPANY FAYETTEVILLE AIRPORT OHDAC16 TZ1031416 (CREAM)
TR-3	DAVID ALLEN COMPANY FAYETTEVILLE AIRPORT OHDAC16 TZ1031416 (BROWN)
TR-4	DAVID ALLEN COMPANY FAYETTEVILLE AIRPORT OHDAC16 TZ0050616 (BLUE)
TR-5	MATCH EXG. WHITE FINISH
TR-6	MATCH EXG. GRAY FINISH
CT-1	CERAMIC TILE 12"X24" DALTILE ESTA VILLA COTTAGE BROWN EV99 IN BRICK PATTERN (SEE INTERIOR ELEVATIONS A7.01)
CT-2	CERAMIC TILE 2"X4" MOSAIC DALTILE ESTA VILLA TERRACE BEIGE EV98 (SEE INTERIOR ELEVATIONS A7.01)
CT-3	CERAMIC TILE 2"X2" UNGLAZED MOSAIC BY DALTILE, COLOR TO BE UPTOWN TAUPE SPECKLE D202 & ARTISAN BROWN SPECKLE D204 IN A 6" SQ. CHECKERBOARD PATTERN
CT-4	CERAMIC TILE 12"X12" DALTILE ESTA VILLA TERRACE BEIGE EV98 IN BRICK PATTERN
CTB-1	CERAMIC TILE BASE - DALTILE 2"X2" MB-5A SHAPE IN ARTISAN BROWN SPECKLE D204
RB-1	RUBBER BASE AS SPECIFIED
MTS-1	METAL TRANSITION STRIP - SCHLUTER QUADEC EB BRUSHED STAINLESS STEEL
P-1	LATEX EGGSHELL PAINT, SHERWIN-WILLIAMS, SW 6147 PANDA WHITE
P-2	LATEX SEMI-GLOSS PAINT, SHERWIN-WILLIAMS, SW 6335 FIRED BRICK
P-3	LATEX SEMI-GLOSS PAINT, SHERWIN-WILLIAMS, SW 7020 BLACK FOX
P-4	LATEX FLAT PAINT, SHERWIN-WILLIAMS, SW 7757 HIGH REFLECTIVE WHITE
P-5	PRE INDUSTRIAL PRE-CATALYZED WATER BASED EPOXY BY SHERWIN WILLIAMS OR APPROVED EQUAL IN SW 7527 NANTUCKET DUNE
P-6	MACROPOXY 646-100 BY SHERWIN WILLIAMS IN SW 6147 PANDA WHITE
P-7	ALKYD ACRYLIC SEMI-GLOSS PAINT, SHERWIN WILLIAMS, SW 6314 LUXURIOUS RED
ACP-1	ACOUSTICAL CEILING PANEL - USG MARS CLIMA PLUS SLT 24" X 24" WITH DX/DXL 15/16" SUSPENSION GRID
PL-1	PLASTIC LAMINATE - WILSONART, WINDSWEPT PEWTER 4795-60
SS-1	SOLID SURFACE - WILSONART, JOVIAN 9211GM (VANITY BOWLS TO BE WILSONART OVAL ADA VANITY BVI512 CREAM)

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GORDON ELLISON JOHNSON
REGISTERED ARCHITECT
6194
7 - 31 - 2023
NORTH CAROLINA
FAYETTEVILLE, N.C.

Fayetteville Regional Airport Airline Terminal Improvements - Part 3

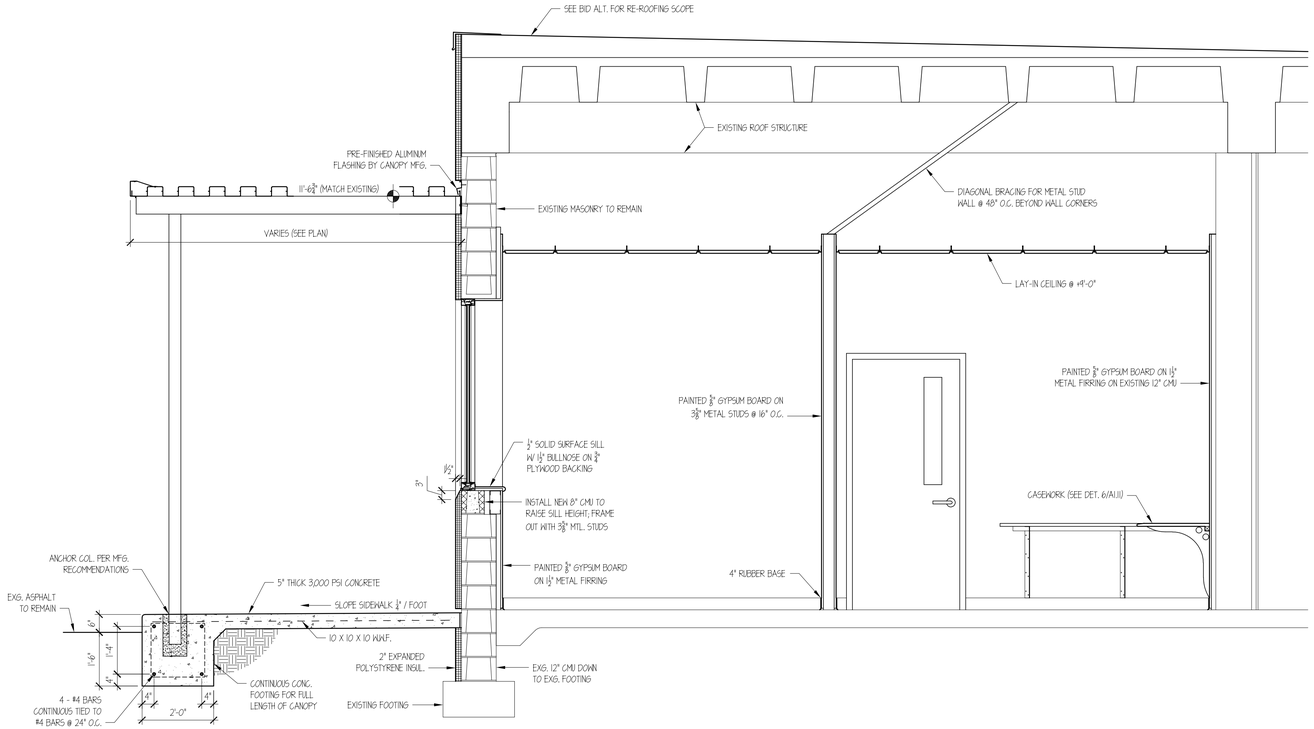
400 Airport Road
Fayetteville, North Carolina 28306

Room Finish & Door Schedules, Door & Frame Elevations & Finish Legend

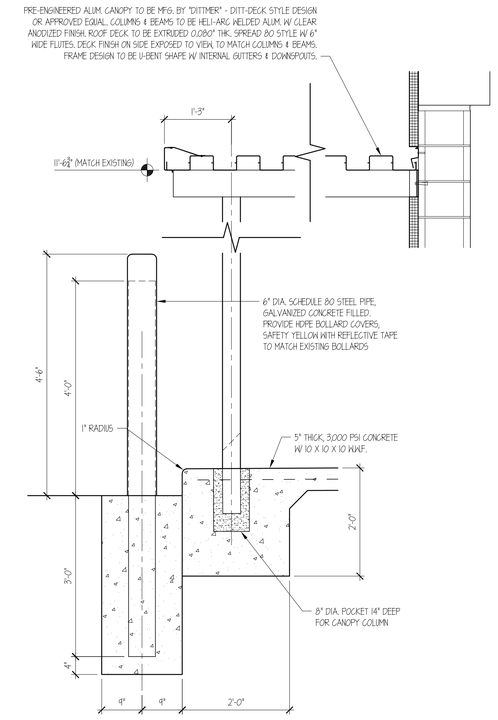
DRAWN BY: JD Pike
REVIEWED BY: G. Johnson
DATE: 7-31-23
PROJECT NO.: 2207
NOTES:

REVISIONS

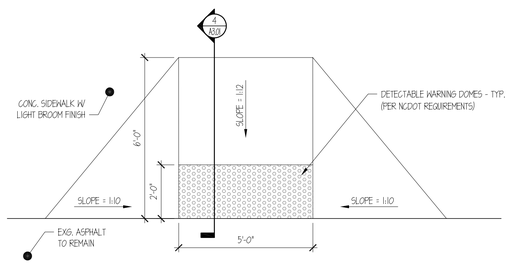
SHEET NUMBER
A1.40



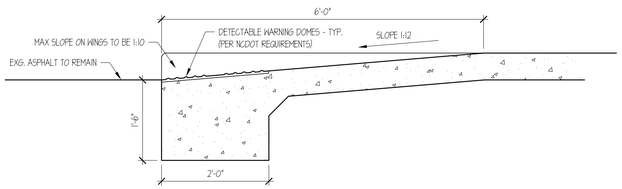
2 SECTION @ AIRLINE OFFICE RENOVATION
1/2" = 1'-0"



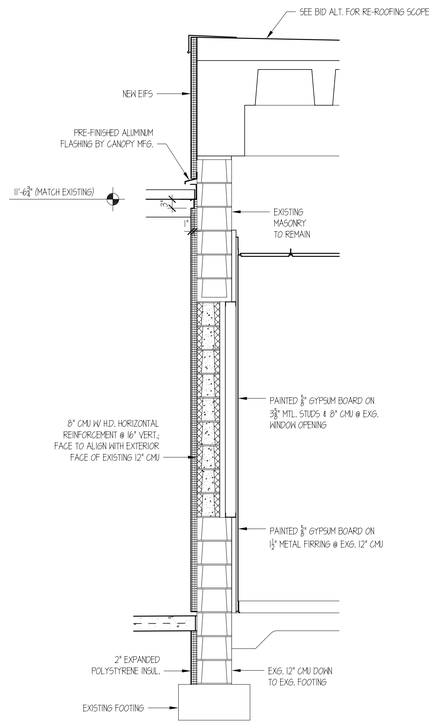
1 SECTION @ AIRLINE OFFICE CANOPY
3/4" = 1'-0"



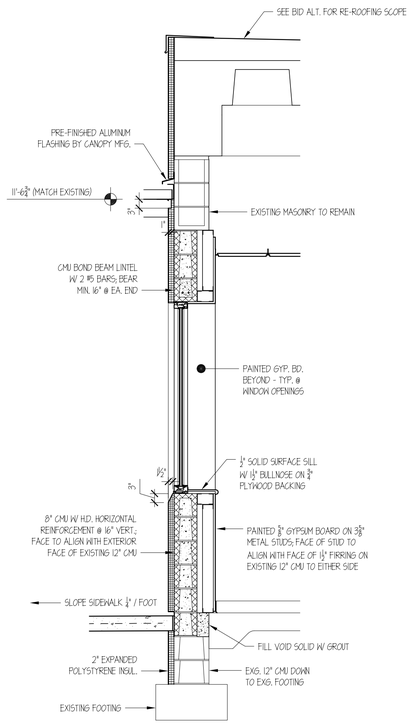
3 HANDICAP RAMP DETAIL @ CONCRETE SIDEWALK
3/8" = 1'-0"



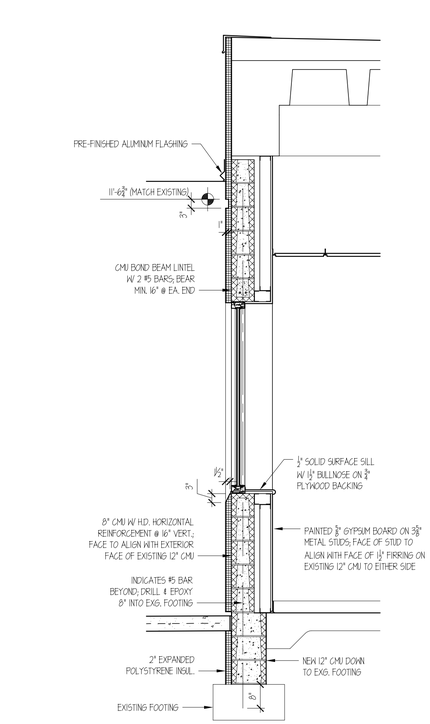
4 SECTION @ SIDEWALK HANDICAP RAMP
3/4" = 1'-0"



7 SECTION @ AIRLINE OFFICE RENOVATION
1/2" = 1'-0" (@ EXISTING WINDOW OPENING)



6 SECTION @ AIRLINE OFFICE RENOVATION
1/2" = 1'-0" (@ EXISTING DOOR OPENING)



5 SECTION @ AIRLINE OFFICE RENOVATION
1/2" = 1'-0" (@ EXISTING ROLL-UP DOOR)

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6194
7 - 31 - 2023
NORTH CAROLINA
FAYETTEVILLE, N.C.

Fayetteville Regional Airport Airline Terminal Improvements - Part 3

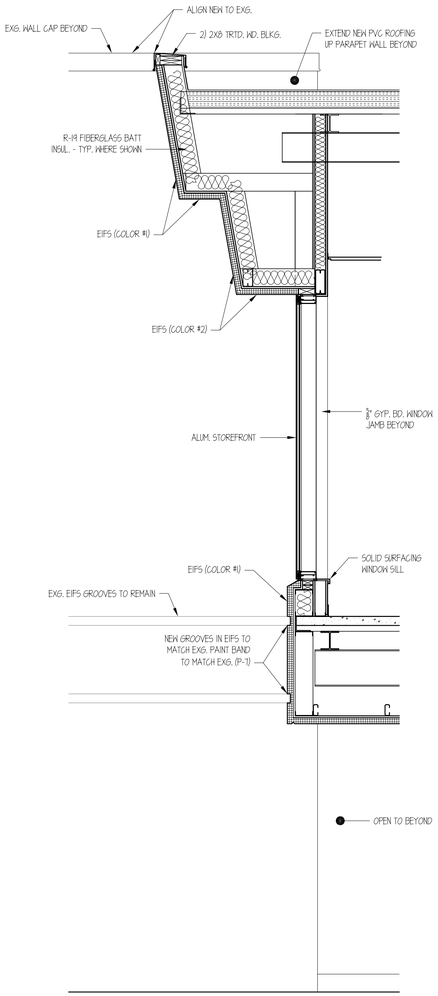
Airline Office Building Sections

400 Airport Road
Fayetteville, North Carolina 28306

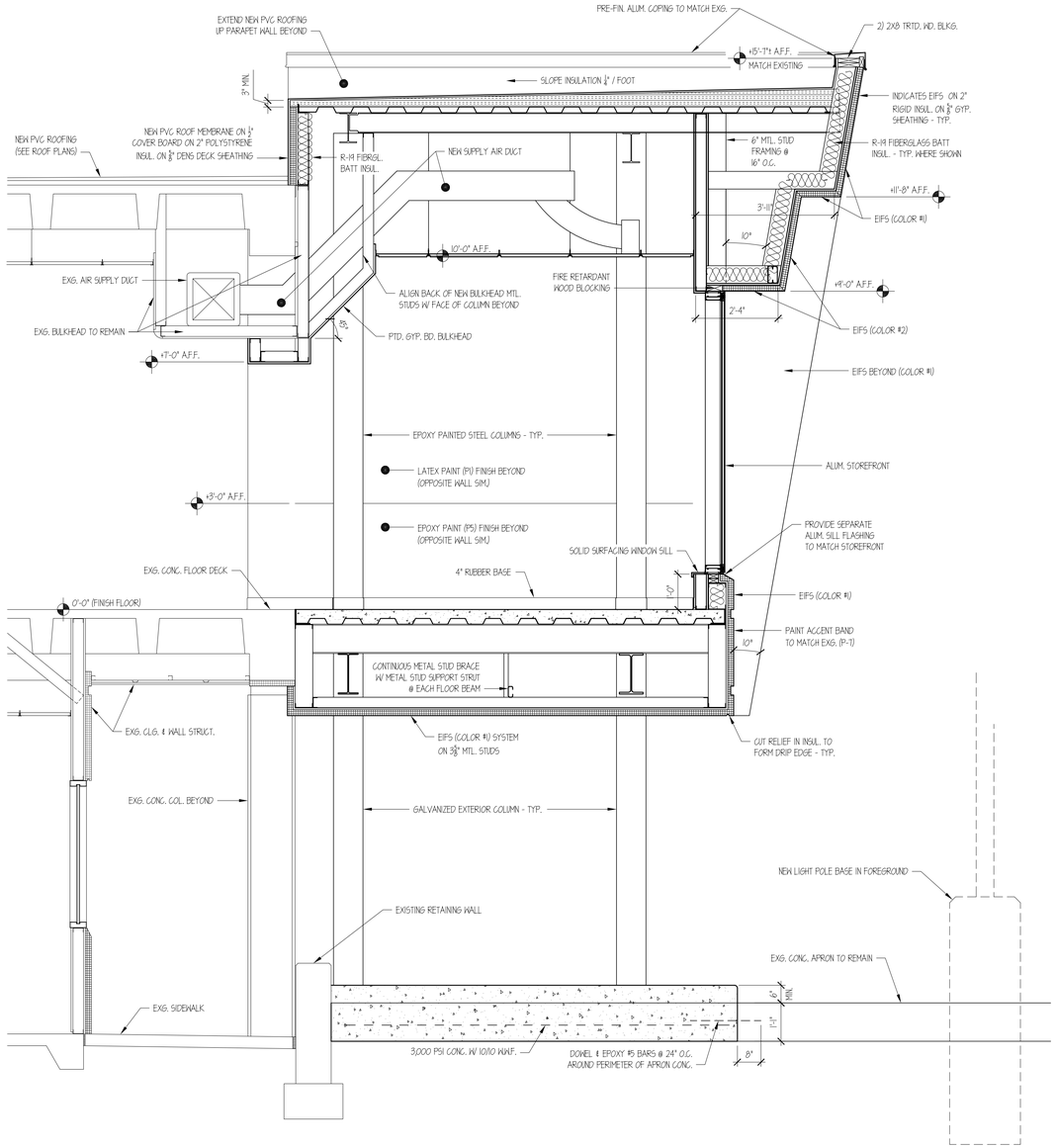
DRAWN BY: JD Pike
REVIEWED BY: G. Johnson
DATE: 7-31-23
PROJECT NO.: 2207
NOTES:

REVISIONS

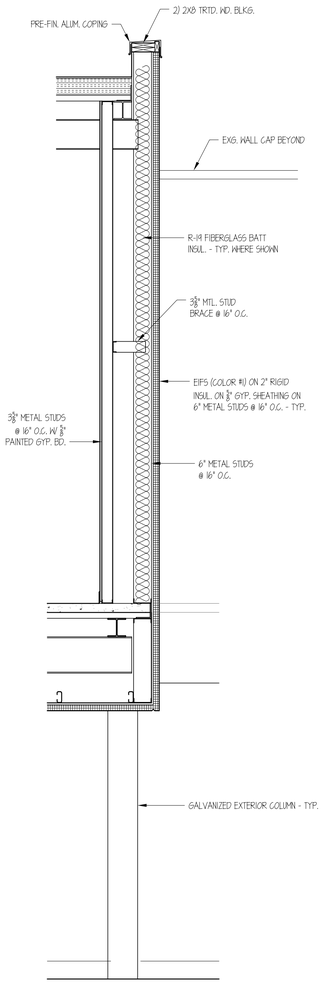
SHEET NUMBER
A3.01



3 SECTION @ WEST GATE LOUNGE EXPANSION
1/2" = 1'-0"



2 SECTION @ SOUTH GATE LOUNGE EXPANSION
1/2" = 1'-0"



1 SECTION @ EAST GATE LOUNGE EXPANSION
1/2" = 1'-0"

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7 - 31 - 2023
NORTH CAROLINA
FAYETTEVILLE, N.C.

Fayetteville Regional Airport Airline Terminal Improvements - Part 3

Concourse B Addition Sections

400 Airport Road
Fayetteville, North Carolina 28306

DRAWN BY: JD Pike
REVIEWED BY: G. Johnson
DATE: 7-31-23
PROJECT NO.: 2207
NOTES:

REVISIONS

SHEET NUMBER
A3.02

General Notes

1. Design Load Data

Risk Category III

Importance Factors:
Snow, I_S = 1.10
Seismic, I_e = 1.25
Ice (thickness), I_i = 1.25
Ice (wind), I_W = 1.00

Live Loads:
Roof..... 20 psf uniform, 300 lb concentrated
2nd floor..... 100 psf

Ground Snow Load, (P_g): 10 psf

Wind Design Data:
Ultimate Design Wind Speed, V_{ult} (3-second gust) 132 mph (ASCE 7-10/ 2018 NC State Building Code)
Internal pressure coefficient (GC_{Pi}) = ±0.18 [Enclosed Building]

Exposure Category C
Wind Base Shears (for MWFRS): V_X = 28 kips
[At addition only] V_Y = N/A

*Note: All exterior component and cladding materials will be designed and anchored to resist 132 m.p.h component and cladding wind forces determined according to the NC State Building Code for the Exposure Category indicated above. Provide all bracing and connections necessary to transfer lateral loads to structure.

Earthquake Design Data:
Seismic Design Category C
Mapped MCE_R Spectral Response Acceleration Parameters, S_S = 23.0 %g
S_1 = 9.9 %g
MCE_R Spectral Response Acceleration Parameters, S_{MS} = 36.8 %g S_{M1} = 23.7 %g
Design Spectral Response Acceleration Parameters, S_{DS} = 24.5 %g S_{D1} = 15.8 %g
Site Classification = D

Seismic Force Resisting System:
___ Bearing Wall
_X_ Building Frame
___ Moment-Resisting Frame
___ Dual w/Special Moment Frames
___ Dual w/Intermediate Moment Frames
___ Shear Wall-Frame Interactive System w/Ordinary Reinforced Moment Frames and Ordinary Reinforced Concrete Shear Walls
___ Cantilevered Column Systems
___ Steel Systems Not Specifically Detailed for Seismic Resistance, Excluding Cantilever Column Systems

Response Modification Coefficient, R = 3
Seismic Response Coefficient, C_S = 0.09
Seismic Base Shear V = 11 kips

Analysis Procedure:
___ Simpified
_X_ Equivalent Lateral Force
___ Modal

Lateral Design Control: Earthquake____ Wind _X_

Note: Special Inspections are required for this project in accordance with the North Carolina State Building Code Section 1705. See Statement of Special Inspections on Sheet S0.02 for required structural inspections.

2. Materials

A.	Concrete	f'c = 4000 psi Reg. wt. U.N.O. f'c = 4500 psi Reg. wt. at pedestals (air content 6% ± 1.5%). f'c = 4000 psi Lt. wt. (120 pcf fresh density +/- 5 pcf max) at elevated slabs on metal deck. All concrete to have max water/cement ratio of 0.45.
B.	Reinforcing Steel	ASTM A-615 Grade 60
C.	Welded Wire Fabric	ASTM A-1064
D.	Structural Steel	ASTM A-36 U.N.O. ASTM A-992 at all beams and columns
E.	Hollow Structural Sections(HSS)	Rectangular - ASTM A-500 Grade C, F_y = 50 ksi
F.	Bolts	ASTM F-3125, Gr.A-325N w/ASTM A-563 heavy hex nuts and ASTM F-436 washers
G.	Weld Electrodes	E70
H.	Steel Deck	Composite Deck: 40 ksi Roof Deck: 33 ksi min ASTM A-653 galvanized
I.	Anchor Rods	ASTM F1554(Gr.36) w/ ASTM A-563 heavy hex nuts
J.	Expansion Bolts	Hilti Kwik Bolt III (or equal)
K.	Epoxy Anchoring System	Hilti HIT-HY 270 (or equal) for anchorage to masonry Hilti HIT-RE 500 V3 (or equal) for anchorage to concrete

3. Foundations
A. Allowable soil bearing 2000 psf. Site will be proofrolled, densified and/or undercut, tested, and repaired according to subsurface exploration report by Geotechnologies, Inc. dated October 30, 2015 [Geotechnologies Inc. Project #1-15-0630-EA].
B. Compact bottom of all footing excavations with a vibratory hand operated compactor before placing reinforcing in footing excavations.
C. The general contractor will coordinate and lower wall and column footings where required to be below any new or existing utility lines. Notify Arch./Engineer of any footing adjustment required before beginning work. In no condition will utilities be allowed under column footings.
D. Sides of concrete pedestals are to be formed.
E. No heavy equipment will be used within 8 feet of existing building elevator pit walls.
F. All concrete work will comply with ACI 301 "Specifications for Structural Concrete" and ACI 318-14 "Building Code Requirements for Structural Concrete" unless otherwise noted on the drawings and specifications.

4. Superstructure
A. Structural steel fabricator is to be (BU) AISC Certified. Structural steel erector is to be (CSE) AISC Certified. Submit certifications.
B. All welders, shop and field, will be certified for the type of work involved. Submit certifications.
C. The structural steel fabricator will prepare shop drawings under the supervision of a connection design engineer registered in North Carolina. Submit calculations for connection design along with shop drawings.
D. All shop drawings will be checked by the fabricator before being submitted to the Architect/Engineer for review. When submitting electronic shop drawings, one (1) hard copy must be provided to the structural engineer before review can begin.
E. At construction completion, the steel fabricator will submit a letter sealed by the connection design engineer registered in North Carolina stating that all connections have been designed and detailed for the shear values, tensile loads and capacities shown on the structural drawings. Any required field modification sketches are to be included with letter.
F. Structural steel connections will be designed by the fabricator's NC registered engineer unless specifically detailed on the structural drawings. All connections are to be designed as simple connections except where indicated otherwise on plans or in sections. Design connections per AISC Manual of Steel Construction (ASD) for shears indicated in the Framed Beam Connection Table(s) unless higher shears are indicated on framing plans or details. In addition, design connections for any tension indicated on framing plans, sections or schedules. Connect girders to HSS columns with thru-plates as determined by connection design engineer. Do not use slotted holes for axially loaded beams or bracing connections without written approval from the Structural Engineer before preparing shop drawings.
G. Connections: Shop - Bolted or Welded
Field - Bolted U.N.O.
H. Bolts will be 3/4" diameter, Gr.A-325N, unless otherwise noted. Larger diameter bolts may be required by fabricator's connection design engineer at some locations such as vertical bracing connections or girder connections to HSS columns. Fabricator's connection design engineer and detailer are to clearly indicate on shop drawings all locations where larger diameter bolts are required. All bolts will be tightened by a few impacts of an impact wrench or the full effort of a man using an ordinary spud wrench with a minimum of 200 foot pounds of torque and a maximum of 250 foot pounds of torque for a snug tight condition.
I. U.N.O. bolt threads can be either cut or rolled. If threads are rolled, do not reduce bolt diameter. Make adjustments on shop drawings for increased shank diameter at thread location.
J. All structural bolts will have heavy hex nuts.
K. Unless shown otherwise all field welds will be 3/16 inch fillet welds.
L. All splices at perimeter roof edge angles or plates will be butt welded all around to provide roof diaphragm.
M. Provide screed angles around all floor openings.
N. General Contractor to verify all existing dimensions, elevations, and conditions before fabricating steel. Notify Architect and Engineer of any significant discrepancies.
O. All detailing, fabricating, and erection shall conform to the following specifications (latest editions), except as otherwise indicated:
AISC 360-10 - "Specification for Structural Steel Buildings."
AISC 303-10 - "Code for Standard Practice for Steel Buildings and Bridges." Paragraph 4.4.1 of the above code is hereby modified by deletion of the following sentences:
a) "Confirmation that the Fabricator has correctly interpreted the Contract Documents in the preparation of those submittals";
b) "Confirmation that the Owner's Designated Representative for Design has reviewed and approved the Connection details shown on the Shop and Erection Drawings and submitted in in accordance with Section 3.1.2, if applicable";
AWS D1.1 - "Structural Welding Code - Steel."
SJI - "Code of Standard Practice for Steel Joists and Joist Girders." Steel Joist Institute
SDI - "Code of Standard Practice." Steel Deck Institute.
P. Shop Painting - One coat of fabricator's standard typical U.N.O. Omit paint on all structural steel that is to be sprayed with fireproofing or encased in concrete; omit paint on surfaces where shear studs will be field-applied. Hot-dip galvanize steel according to ASTM A-123 where galvanizing is required. Touch up welds and damaged areas with a field applied galvanizing according to ASTM A780.
Q. General Contractor shall have sole responsibility for site safety. Fabricator and Erector shall review Contract Documents and if the structure, as shown on those documents, is in conflict with the requirements of any erection safety regulations, Fabricator shall notify Structural Engineer prior to commencing erection shop drawing production. If Fabricator and/or Erector fail to notify Structural Engineer, as stated above, they shall become responsible for all costs for correcting such conflicts with the requirements of any and all safety regulations.
R. General Contractor will be responsible for property guying and bracing the structure to resist live, dead, wind, and construction loads during construction. An unstable condition exists until all the building components are in place. Columns and walls are not designed as free-standing and must be adequately braced.
S. The General Contractor will coordinate and verify size, location, type, and direction of all pads, depressions, bolts, sleeves, anchors, openings, etc. to be set or cast in concrete or masonry prior to placement. All penetrations of walls and floors shall be approved by the architect and structural engineer if not indicated on the structural drawings. All penetrations shall be sleeved with structural steel sleeves. Sleeves shall be supplied by the trade requiring the penetration.
T. General Contractor is responsible for coordinating locations of braces, bridging, and miscellaneous framing to avoid conflict with ducts, plumbing, or any other utility.

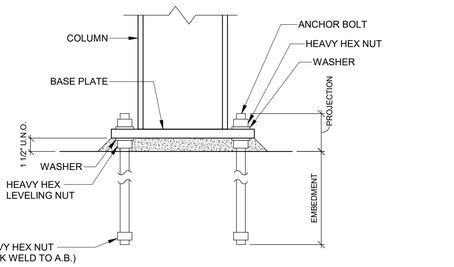
5. Steel Deck
A. All deck welders are to be certified for the type of work involved. Submit certifications.
B. All deck will meet the requirements of the Steel Deck Institute and will be continuous over three or more spans unless noted otherwise.
C. Roof deck will be 1.5", 20 gauge, G60 galvanized wide rib (Type B) steel deck
New Millennium or equal) and will be welded to supporting beams and angles with 5/8"diameter puddle welds (U.N.O.):
- intermediate supports: 6" o/c (36/7 Pattern)
- individual deck ends (deck ends at building perimeter and deck end laps): 6"o/c
- deck sides at building perimeter and ridges: 12"o/c. Provide continuous 20 gauge filler sheet if deck is cut.
D. Provide four (4) #10 tek side lap screws for 1.5" roof deck.
E. Composite steel floor deck will be 2", 20 gauge, with G60 Galv. (type 2.0CD by New Millennium or equal) with 5/8" diameter puddle welds 12"o/c at ea. supporting member. Side laps and deck sides at perimeter will be fastened at midspan or 3'-0" o/c maximum between supports, whichever distance is smaller. No button punching allowed.
F. Provide deck support angles around columns, at dropped beams, and any other required locations.
G. Provide an angle frame to support roof deck around all roof deck penetrations greater than 6" wide, including sump pans at roof drains. See typical detail.
H. Provide 4" minimum end lap for roof decks. Butt ends of 2" composite floor deck over supports.

6. Utilities and Architectural Components
A. The General Contractor will coordinate and lower new wall and column footings where required to be below any new or existing utility lines. Notify Arch./Engineer of any footing adjustment required before beginning work. In no condition will utilities be allowed under new or existing column footings.
B. Do not undermine new or existing footings when placing utilities. Provide soil shoring as needed to prevent undermining new or existing footings.
C. No electrical conduit runs will be located in the elevated floor slab unless approved in writing by Architect and Structural Engineer.
D. The General Contractor will coordinate and verify size, location, type, and direction of all pads, depressions, bolts, sleeves, anchors, openings, etc. to be set or cast in concrete or masonry prior to placement. All penetrations of walls and floors shall be approved by the architect and structural engineer if not indicated on the structural drawings. All penetrations shall be sleeved with structural steel sleeves. Sleeves shall be supplied by the trade requiring the penetration.
E. Do not core through or otherwise damage existing building concrete beams, concrete joists, concrete columns or footings when placing new utilities. Do not core or cut through tapered edges of concrete joists.
F. Do not core through or otherwise damage structural framing or footings when placing new utilities.
G. Do not suspend bulkheads, utilities, etc. from the underside of concrete beams and concrete joists. Attachment should be made to the side of the concrete structural member (coordinate anchorage location with concrete reinforcing locations - Do Not Damage Reinforcing).
H. Do not support suspended ceilings, light fixtures, ducts, metal studs, or other items from steel floor or roof deck. A 50 lb. max load per 4 ft x 4 ft square area is acceptable hanging from the composite floor slab. Anchors attached to the composite metal floor deck are not acceptable. The hangers supporting the load from the floor slab should extend well into the concrete and should be installed before the concrete is poured to ensure that the load is supported by the concrete and not by the metal deck. Slots cut into the floor deck for the placement of hangers should be as small as possible and should be cut parallel to the flutes. Slots in the deck shall not be cut perpendicular to the flutes.
I. All exterior cladding and building components will be designed and anchored to resist 132 m.p.h. wind forces determined according to the NC State Building Code for the Exposure Category indicated in these General Notes. Provide all bracing and connections necessary to transfer lateral loads to structure.

7. Miscellaneous
A. The structural drawings take precedence when a conflict occurs between the structural drawings, the architectural drawings, the PM&E drawings, and the specifications concerning a structural item. Notify Architect and Engineer in writing for clarification prior to bidding. The term unless noted otherwise (U.N.O.), means unless noted otherwise on the **structural drawings**. If there is a conflict on the structural drawings or specifications the most stringent requirement will control.
B. General Contractor to verify all existing building dimensions, elevations, and details with the field conditions. Notify the architect and engineer of any significant discrepancies.
C. General Contractor is responsible to coordinate locations of braces, bridging, and miscellaneous framing to avoid conflict with ducts, plumbing, or any other utility.
D. General Contractor to notify our office during major phases of construction so observations can be made by our office as required.
E. The General Contractor will be responsible for properly guying and bracing the structure to resist live, dead, wind, and construction loads during construction. An unstable condition exists until all the building components are in place. Columns and walls are not designed as free-standing and must be adequately braced.
F. All shop drawings will be checked by fabricator before being submitted to the Architect/Engineer for review. When submitting electronic shop drawings, one (1) hard copy must be provided to the structural engineer before review can begin.
G. See architectural drawings for all required floor depressions, floor toppings, and floor slopes not shown.
H. Maintain floor slab thickness shown on the drawings for elevated floor slabs on metal deck. Do not exceed specified floor slab thickness.
I. No loads will be placed on elevated floor slabs until concrete reaches 75% design strength.
J. All concrete work shall conform to ACI 301 and ACI 318-14, unless otherwise noted on the drawings and specifications.
K. Use type "B" laps for all reinforcing lap splices U.N.O.

GENERAL NOTES 1 S0.01
NOT TO SCALE

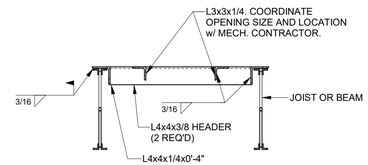
8. Delegated Design
A. Structural steel connections will be designed by the fabricator's NC registered engineer unless specifically detailed on the structural drawings. This includes framed beam connections and any vertical bracing connections. Submit sealed calculations.
B. See architectural drawings for exterior metal stud walls. Metal stud walls and their attachment to structure are to be designed by an Engineer registered in NC for 132 m.p.h. component and cladding wind forces. Metal stud design is to include headers, sills, parapets, jamb studs at openings and connections of all components to transfer loading to structure. Limit horizontal deflection of studs to L/360.



TYP. COLUMN BASE WITH LEVELING NUTS 3 S0.01
NOT TO SCALE

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
ALUM.	ALUMINUM	JT.	JOINT
ARCH.	ARCHITECT	LLH	LONG LEG HORIZONTAL
BLDG.	BUILDING	LLV	LONG LEG VERTICAL
BM.	BEAM	LVL	LAMINATED VENEER LUMBER
B.O.D.	BOTTOM OF DECK	MAX.	MAXIMUM
B.O.F.	BOTTOM OF FOOTING	MECH.	MECHANICAL
BOTT.	BOTTOM	MFG.	MANUFACTURER
BRG.	BEARING	MIN.	MINIMUM
B.S.	BOTH SIDES	N.S.	NEAR SIDE
CHKD.	CHECKED	NTS.	NOT TO SCALE
C.J.	CONTROL JOINT	O/C	ON CENTER
CLR.	CLEAR	OPP.	OPPOSITE
C.M.U.	CONCRETE MASONRY UNITS	REG.	REGULAR
COL.	COLUMN	REINF.	REINFORCING
CONC.	CONCRETE	REQ'D.	REQUIRED
CONN.	CONNECTION	RF.	ROOF
CONSTR.	CONSTRUCTION	RM.	ROOM
CONT.	CONTINUOUS	SHT.	SHEET
DWGS.	DRAWINGS	SQ.	SQUARE
EA.	EACH	S.S.	STAINLESS STEEL
E.F.	EACH FACE	STD.	STANDARD
EL.	ELEVATION	STIFF	STIFFENER
ELEV.	ELEVATION	THICK.	THICKENED
E.S.	EACH SIDE	THR'D.	THREADED
E.W.	EACH WAY	T & B	TOP AND BOTTOM
EXIST.	EXISTING	T & G	TONGUE & GROOVE
EXP.	EXPANSION	T.O.B.	TOP OF BEAM
FDN.	FOUNDATION	T.O.F.	TOP OF FOOTING
F.S.	FAR SIDE	T.O.P.	TOP OF PIER
GALV.	GALVANIZED	T.O.S.	TOP OF SLAB
G.C.	GENERAL CONTRACTOR	T.O.W.	TOP OF WALL
GEN.	GENERAL	TYP.	TYPICAL
G.T.	GIRDER TRUSS	U.N.O.	UNLESS NOTED OTHERWISE
H.C.	HOLLOW CORE	W.P.	WORK POINT
HORIZ.	HORIZONTAL	WT.	WEIGHT
HORZ.	HORIZONTAL	W.W.F.	WELDED WIRE FABRIC

SCHEDULE OF ABBREVIATIONS 4 S0.01
NOT TO SCALE



(USE IN ALL LOCATIONS WHERE ROOF OPENING IS GREATER THAN 6".)

ROOF OPENING FRAME 2 S0.01
3/4" = 1'-0"

FRAMED BEAM CONNECTION TABLE		
BEAM DEPTH	MINIMUM LENGTH ANGLES EA. SIDE (INCHES)	BEAM SHEAR EACH END (KIPS) *
8	5½	15
10	5½	15
12	5½	20
14	8½	24
16	8½	30

* USE SHEAR VALUES SHOWN TO PROPORTION CONNECTIONS EXCEPT WHERE HIGHER BEAM REACTIONS ARE SHOWN ON FRAMING PLANS AND DETAILS OR CONNECTIONS ARE SPECIFICALLY DETAILED. MINIMUM LENGTH ANGLES APPLY TO DOUBLE ANGLE CONNECTIONS. PLATE SHEAR TABS ARE TO BE DESIGNED FOR BEAM SHEAR VALUES SHOWN EXCEPT WHERE DETAILED OTHERWISE ON THE DRAWINGS. NO SINGLE ANGLE CONNECTIONS ARE PERMITTED UNLESS SPECIFICALLY NOTED OTHERWISE.

FRAMED BEAM CONNECTION TABLE 5 S0.01
NOT TO SCALE

STRUCTURAL SHEET LIST	
SHEET NUMBER	SHEET NAME
S0.01	GENERAL NOTES & SCHEDULES
S0.02	SCHEDULE OF STRUCTURAL SPECIAL INSPECTIONS
S1.00	PARTIAL FOUNDATION PLAN - CONCOURSE B
S2.00	PARTIAL LEVEL 2 FLOOR FRAMING PLAN - CONCOURSE B
S3.00	PARTIAL ROOF FRAMING PLAN - CONCOURSE B
S4.00	FOUNDATION SECTIONS & DETAILS
S5.00	FLOOR SECTIONS
S6.00	ROOF SECTIONS

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 039250 JAMES P. BENNETT, JR. JARRAH J. DUNCAN
07/31/23

Fayetteville Regional Airport Airline Terminal Improvements - Part 3
400 Airport Road
Fayetteville, North Carolina 28306

GENERAL NOTES & SCHEDULES

DRAWN BY: Author
REVIEWED BY: SF
DATE: 04/03/22
PROJECT NO: 23-58
NOTES:

REVISIONS

SHEET NUMBER
S0.01

SCHEDULE OF STRUCTURAL SPECIAL INSPECTION SERVICES

Building Risk Category III

The following are the structural special inspection categories for this project. See the tables on this sheet for the special inspections recommended to be performed under each category. The special inspector should be familiar with the requirements of the NC Building Code Chapter 17 and the items in each category that require special inspections. See specifications for required testing not included on this sheet:

- ☒ Soils
- ☒ Concrete Construction
- ☒ Structural Steel Construction
- ☒ Cold-Formed Steel Deck
- ☐ Open-Web Steel Joists and Joist Girders
- ☐ Cold-Formed Steel Trusses Spanning 60 ft or Greater
- ☐ Masonry Construction
- ☐ Wood Construction
- ☐ Retaining Walls Exceeding 5 ft of Unbalanced Backfill Height
- ☐ Driven Deep Foundations
- ☐ Cast-In-Place Deep Foundations
- ☐ Helical Pile Foundations
- ☐ Special Inspections for Wind Resistance
- ☐ Special Inspections for Seismic Resistance
- ☐ Structural Observations for Seismic Resistance by Registered Design Professional
- ☐ Structural Observations for Wind Requirements by Registered Design Professional

The Owner or the Owner's Agent is to hire a special inspection and testing agent to oversee, record and document all indicated special inspections according to the requirements of the NC Building Code Chapter 17. The inspection and testing agents shall be engaged by the Owner or the Owner's Agent and not by the Contractor or the Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official prior to commencing work. The inspection and testing agents are to be certified for the type of work involved. Tests and inspections indicated will be based upon the requirements of the applicable building codes and the contract documents (full procedures for required testing and inspections are not included in these tables).

REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION: CONTINUOUS DURING TASK LISTED	FREQUENCY OF INSPECTION: PERIODIC DURING TASK LISTED
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	--	X
2. Verify excavations are extended to proper depth and have reached proper material.	--	X
3. Perform classification and testing of controlled fill materials.	--	X
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of controlled fill.	X	--
5. Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly.	--	X

Note: The approved geotechnical report and the construction documents shall be used to determine compliance (the most stringent controlling). During fill placement, the special inspector shall verify that the proper materials and procedures are used in accordance with the provisions of the approved geotechnical report and construction documents.

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

Inspections shall verify general compliance with the design documents and approved submittals as well as referenced code sections.

VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION: CONTINUOUS DURING TASK LISTED	FREQUENCY OF INSPECTION: PERIODIC DURING TASK LISTED	REFERENCED STANDARD
1. Inspection of reinforcing steel and placement for general compliance with the design documents and approved submittals.	--	X	ACI 318: Ch.20, 25.2 25.3, 26.6.1-26.6.3
2. Inspect anchors cast in concrete for general compliance with the design documents (including grade, diameter, gage, and embedment depth).	--	X	ACI 318: 17.8.2
3. Inspect anchors/rebar post-installed in hardened concrete members. Verify installation procedure is in strict compliance with the manufacturer's instructions. Obtain installer's certification for installation of adhesive anchors/rebar before work begins.			
a. Adhesive anchors/rebar installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	X	--	ACI 318: 17.8.2.4
b. Mechanical anchors and adhesive anchors/rebar not define in 3.a.	--	X	ACI 318: 17.8.2
4. Verify use of required design mix.	--	X	ACI 318: Ch.19, 26.4.3, 26.4.4
5. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete. Verify compliance.	X	--	ASTM C 172 ASTM C 31 ACI 318: 26.4, 26.12
6. Inspection of concrete placement for proper application techniques.	X	--	ACI 318: 26.5
7. Verify maintenance of specified curing temperature and techniques.	--	X	ACI 318: 26.5.3-26.5.5
8. Verification of in-situ concrete strength prior to removal of shores and forms from beams and structural slabs.	--	X	ACI 318: 26.11.2
9. Inspect formwork for shape, general location and dimensions of the concrete member being formed.	--	X	ACI 318: 26.11.1.2(b)
10. Inspect footing excavations for shape, general location and dimensions of the concrete member being formed.	--	X	
11. Inspect erection of precast concrete members.	--	X	ACI 318: Ch. 26.8

REQUIRED SPECIAL INSPECTIONS OF STRUCTURAL STEEL CONSTRUCTION

Inspections shall verify general compliance with the construction documents, approved submittals, and AISC 360.

VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION: CONTINUOUS DURING TASK LISTED	FREQUENCY OF INSPECTION: PERIODIC DURING TASK LISTED
1. Obtain fabricator's AISC certification and submit a copy to the *Building Official*.		
2. Material verification of structural steel components (including fasteners).	--	X
3. Verify compliance with the details shown on the construction documents, such as braces, stiffeners, and member locations. Exception: Special Inspection of railing systems composed of structural steel elements is limited to welding inspection of the welds at the base of cantilevered rail posts.	--	X
4. Verify proper application of joint details at each connection.	X Inspect all	--
5. Structural steel welding:		
a. Inspection Tasks Prior to Welding (QA tasks listed in AISC 360 Table N5.4-1).	As indicated in the referenced tables of AISC 360	
b. Inspection Tasks During Welding (QA tasks listed in AISC 360 Table N5.4-2).		
c. Inspection Tasks After Welding (QA tasks listed in AISC 360 Table N5.4-3).		
d. Nondestructive testing (NDT) of welded joints:		
1) Complete penetration groove welds 5/16" or greater in Risk Category III or IV.	UT on 100%, may reduce to 25% per AISC 360, N5e.	
2) Complete penetration groove welds 5/16" or greater in Risk Category II.	UT on 10% may increase to 100% per AISC 360, N5f.	
3) Fabricator's NDT reports when fabricator performs NDT.		
6. Structural steel bolting:		
a. Inspection Tasks Prior to Bolting (QA tasks listed in AISC 360, Table N5.6-1).	As indicated in the referenced tables of AISC 360	
b. Inspection Tasks During Bolting (QA tasks listed in AISC 360, Table N5.6-2).		
c. Inspection Tasks After Bolting (QA tasks listed in AISC 360, Table N5.6-3).		
7. Inspection of steel elements of composite construction prior to concrete placement in accordance with QA tasks listed in AISC 360, Table N6.1	As indicated in the referenced table of AISC 360	
8. At completion of fabrication, obtain a certificate of compliance from the fabricator stating that the work was performed in accordance with the approved construction documents and submit it to the *Building Official*.		
9. At completion of erection, obtain a certificate of compliance from the erector stating that the materials supplied and work performed by the erector are in accordance with the approved construction documents and submit it to the *Building Official*.		

REQUIRED SPECIAL INSPECTIONS OF COLD-FORMED STEEL DECK

Inspections shall verify general compliance with the construction documents and approved submittals. Special Inspections and qualification of welding inspectors for cold-formed steel floor and roof deck shall be in accordance with the quality assurance inspection requirements of the "QA/QC Standard for Quality Control and Quality Assurance for Installation of Steel Deck" by the American National Standards Institute / Steel Deck Institute.

VERIFICATION AND INSPECTION	
1.	Obtain fabricator's SDI certification and submit a copy to the *Building Official*.
2.	Verify deck materials are represented by appropriate mill certifications.
3.	Field welding of deck in accordance with AWS D1.3, SDI C, SDI NC, and SDI RD.
4.	Installation of mechanical fasteners in accordance with SDI C, SDI NC, SDI RD, and manufacturer's instructions.
5.	Steel deck installation in accordance with the construction documents, installation drawings, shop drawings, design documents and applicable referenced standards.
6.	Scope of inspections shall comply with the quality assurance inspection requirements of Appendix 1 of the "QA/QC Standard for Quality Control and Quality Assurance for Installation of Steel Deck" by the American National Standards Institute / Steel Deck Institute.
8.	At completion of fabrication, obtain a certificate of compliance from the fabricator stating that the work was performed in accordance with the approved construction documents and submit it to the *Building Official*.

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NORTH CAROLINA PROFESSIONAL SEAL 039250 ENGINEER SARAH J. DUNCAN
07/31/23

Fayetteville Regional Airport Airline Terminal Improvements - Part 3
400 Airport Road
Fayetteville, North Carolina 28306

SCHEDULE OF STRUCTURAL SPECIAL INSPECTIONS

DRAWN BY: Author
REVIEWED BY: SF
DATE: 04/03/22
PROJECT NO: 23-58
NOTES:

REVISIONS

SHEET NUMBER
S0.02

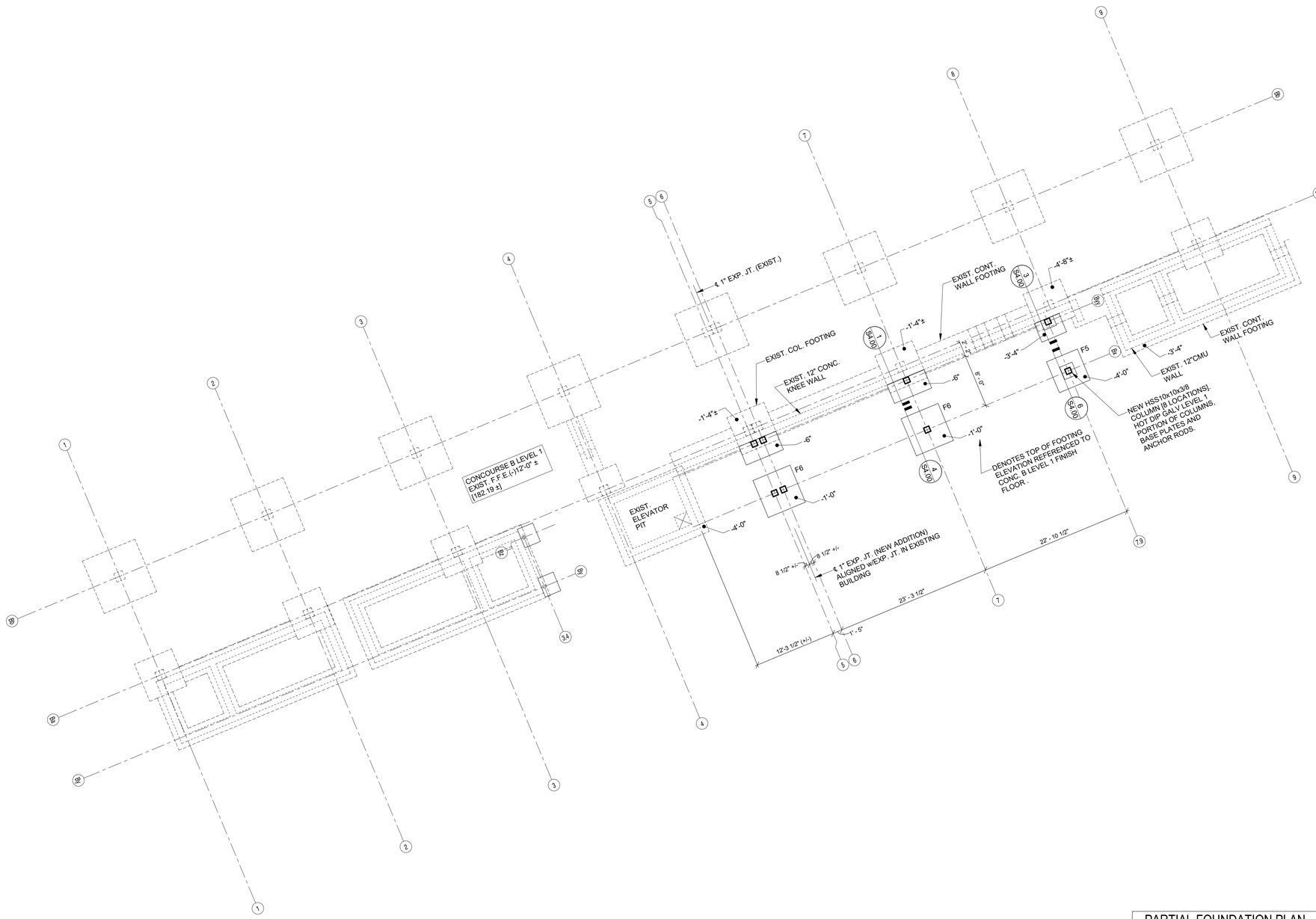
1. REFERENCED EL.0'-0" = EXISTING BUILDING LEVEL 2 FINISH FLOOR [194.19]. TOP OF FOOTING ELEVATIONS SHOWN ON FOUNDATION PLAN ARE REFERENCED TO LEVEL 1 FINISH FLOOR AT CONCOURSE B [182.19].
2. SEE GENERAL NOTES AND TYPICAL DETAILS ON SHEET S0.01.
3. SEE ARCH. DWGS. FOR DIMENSIONS NOT SHOWN.
4. SEE ARCHITECTURAL DRAWINGS FOR DEMOLITION WORK.
5. ALL COLUMN FOOTINGS ARE CENTERED ON COLUMNS U.N.O. ON PLAN OR IN SECTIONS.
6. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR SLABS.
7. GENERAL CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING DIMENSIONS, ELEVATIONS, GENERAL CONDITIONS, AND BUILDING ORIENTATION BEFORE FABRICATING STEEL. EXISTING BUILDINGS MAY HAVE MINOR MISALIGNMENT BETWEEN THEM. CONTRACTOR IS RESPONSIBLE FOR MAKING MINOR ADJUSTMENTS IN ORDER TO FIT STEEL FRAME BETWEEN EXISTING BUILDINGS. NOTIFY ARCHITECT AND ENGINEER OF ANY SIGNIFICANT DISCREPANCIES. ALL ADJUSTMENTS WILL BE APPROVED BY THE ARCHITECT AND ENGINEER.
8. SEE ARCH. DWGS., SPECIFICATIONS, AND GENERAL NOTES FOR EXTERIOR METAL STUD WALL REQUIREMENTS. METAL STUD NC REGISTERED ENGINEER IS TO DESIGN METAL STUDS AND THEIR CONNECTIONS TO STRUCTURE FOR COMPONENT AND CLADDING WIND LOADS.

FOUNDATION PLAN NOTES

NOT TO SCALE

2 / S1.00

FOOTING SCHEDULE				
TYPE	LENGTH	WIDTH	THICKNESS	REINFORCING E.W. BOTTOM (U.N.O.)
F5	5' - 0"	5' - 0"	1' - 6"	(7)-#5
F6	6' - 0"	6' - 0"	1' - 6"	(8)-#5



PARTIAL FOUNDATION PLAN - CONCOURSE B

1/8" = 1'-0"

1 / S1.00

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NORTH CAROLINA PROFESSIONAL SEAL 039250 ENGINEER SARAH J. DUNCAN

07/31/23

Fayetteville Regional Airport Airline Terminal Improvements - Part 3

400 Airport Road
Fayetteville, North Carolina 28306

PARTIAL FOUNDATION PLAN – CONCOURSE B

DRAWN BY: Author
REVIEWED BY: SF
DATE: 10/31/22
PROJECT NO: 23-58
NOTES:

REVISIONS

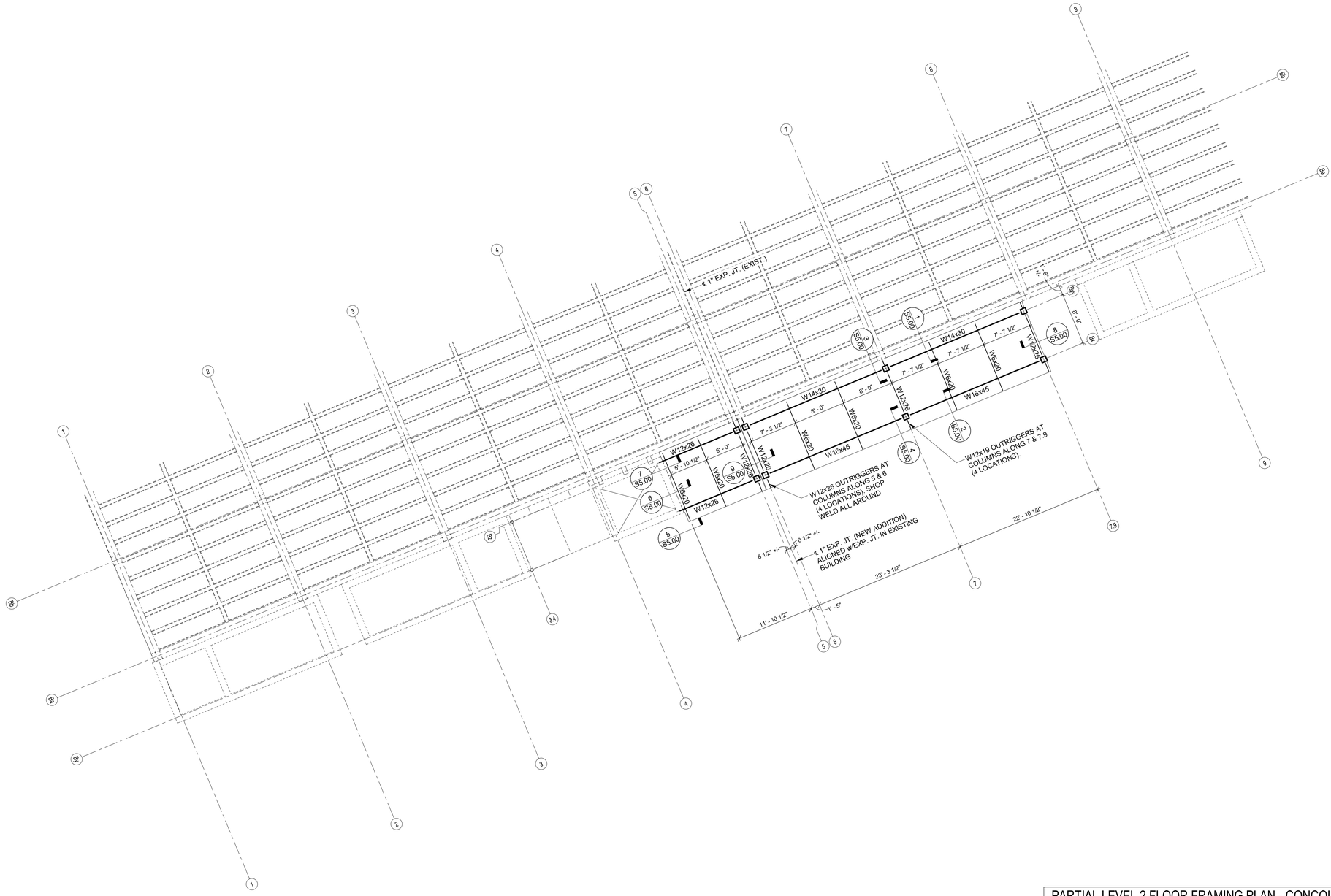
SHEET NUMBER

S1.00

1. REFERENCED EL.0'-0" = EXISTING BUILDING LEVEL 2 FINISH FLOOR [194.19].
2. GENERAL CONTRACTOR IS TO FIELD VERIFY EXISTING LEVEL 2 ELEVATION BEFORE FABRICATING STEEL AND PROVIDE A SMOOTH TRANSITION ACROSS THE INTERFACE. NOTIFY ARCHITECT AND ENGINEER OF ANY SIGNIFICANT DISCREPANCIES. TOP OF CONCRETE ELEVATION TO BE ADJUSTED AS NEEDED FOR FLOOR TOPPINGS TO ALIGN.
3. SEE GENERAL NOTES & TYPICAL DETAILS ON SHEET S0.01.
4. SEE ARCHITECTURAL DRAWINGS FOR DEMOLITION WORK.
5. CONCRETE ON ELEVATED SLAB IS TO BE 4000 psi LIGHTWEIGHT. SEE GENERAL NOTES.
6. GENERAL CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING DIMENSIONS, ELEVATIONS, GENERAL CONDITIONS, AND BUILDING ORIENTATION BEFORE FABRICATING STEEL. EXISTING BUILDINGS MAY HAVE MINOR MISALIGNMENT BETWEEN THEM. CONTRACTOR IS RESPONSIBLE FOR MAKING MINOR ADJUSTMENTS IN ORDER TO FIT STEEL FRAME BETWEEN EXISTING BUILDINGS. NOTIFY ARCHITECT AND ENGINEER OF ANY SIGNIFICANT DISCREPANCIES. ALL ADJUSTMENTS WILL BE APPROVED BY THE ARCHITECT AND ENGINEER.
7. SEE ARCH. DWGS., SPECIFICATIONS, AND GENERAL NOTES FOR EXTERIOR METAL STUD WALL REQUIREMENTS. METAL STUD NC REGISTERED ENGINEER IS TO DESIGN METAL STUDS AND THEIR CONNECTIONS TO STRUCTURE FOR COMPONENT AND CLADDING WIND LOADS.

FLOOR FRAMING PLAN NOTES | 2 | S2.00

NOT TO SCALE



PARTIAL LEVEL 2 FLOOR FRAMING PLAN - CONCOURSE B | 1 | S2.00

1/8" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 039250 ENGINEER SARAH J. DUNCAN

07/31/23

Fayetteville Regional Airport Airline Terminal Improvements - Part 3

400 Airport Road
Fayetteville, North Carolina 28306

PARTIAL LEVEL 2 FLOOR FRAMING PLAN - CONCOURSE B

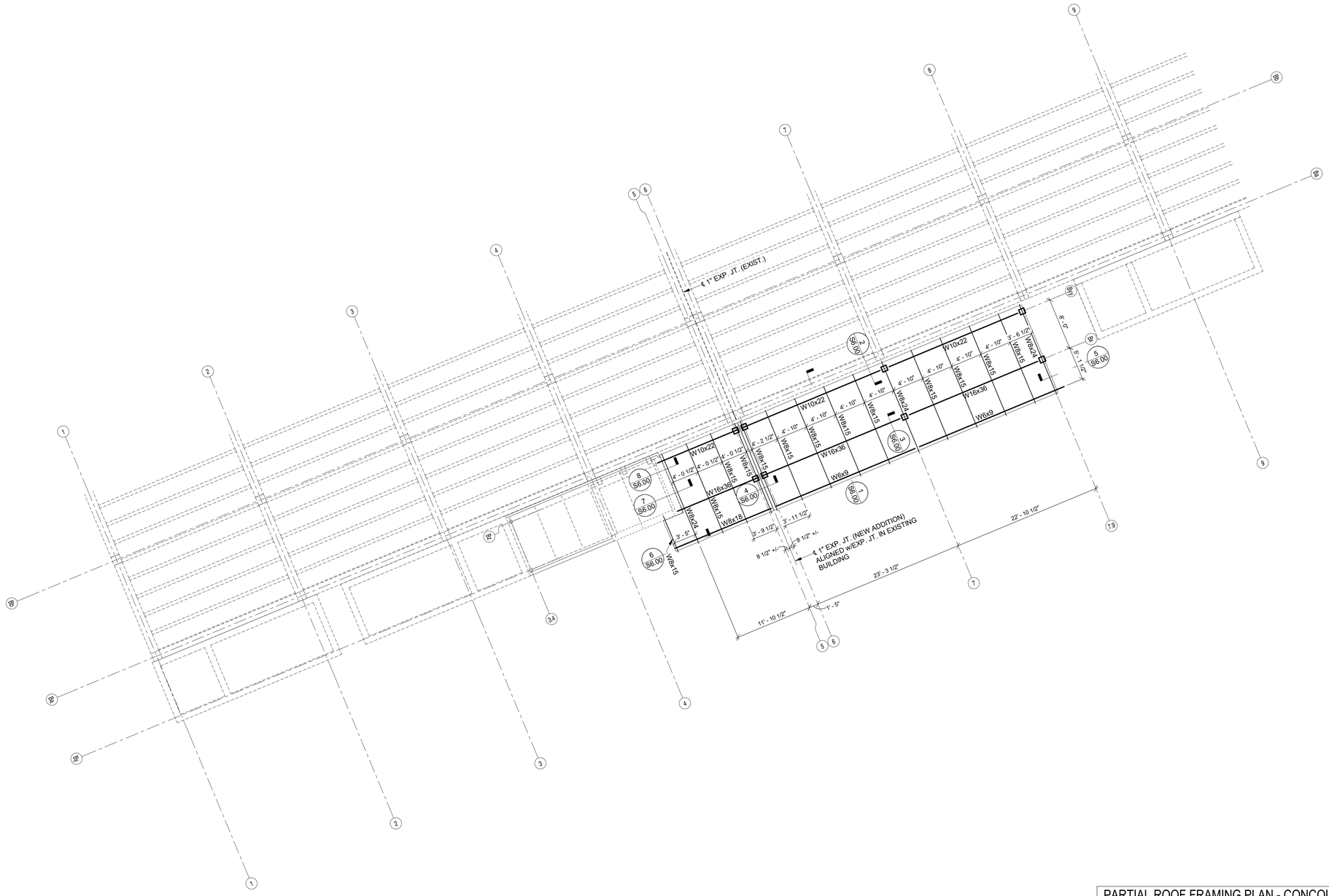
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REVIEWED BY: SF
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PROJECT NO: 23-58
NOTES:

REVISIONS

SHEET NUMBER
S2.00

1. REFERENCED EL.0'-0" = EXISTING BUILDING LEVEL 2 FINISH FLOOR [194.19].
2. SEE GENERAL NOTES & TYPICAL DETAILS ON SHEET S0.01.
3. BEAMS DENOTED (H) & (L) MEAN HIGH AND LOW ELEVATION, RESPECTIVELY.
4. GENERAL CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING AND/OR DETERMINING EXISTING DIMENSIONS, ELEVATIONS, GENERAL CONDITIONS AND BUILDING ORIENTATION BEFORE FABRICATING STEEL. EXISTING BUILDINGS MAY HAVE MINOR MISALIGNMENT BETWEEN THEM. CONTRACTOR IS RESPONSIBLE FOR MAKING MINOR ADJUJSTMENTS IN ORDER TO FIT STEEL FRAME BETWEEN AND ALONG EXISTING BUILDINGS. NOTIFY ARCHITECT AND ENGINEER OF ANY SIGNIFICANT DISCREPANCIES. ALL ADJUSTMENTS WILL BE APPROVED BY THE ARCHITECT AND ENGINEER.
5. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
6. SEE ARCHITECTURAL DRAWINGS FOR DEMOLITION WORK.
7. SEE ARCH. DWGS., SPECIFICATIONS, AND GENERAL NOTES FOR EXTERIOR METAL STUD WALL REQUIREMENTS. METAL STUD NC REGISTERED ENGINEER IS TO DESIGN METAL STUDS AND THEIR CONNECTIONS TO STRUCTURE FOR COMPONENT AND CLADDING WIND LOADS.
8. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ROOF OPENINGS. PROVIDE ROOF OPENING FRAMES PER TYPICAL DETAIL ON SHEET S0.01.

ROOF FRAMING PLAN NOTES — 2 / S3.00
NOT TO SCALE



PARTIAL ROOF FRAMING PLAN - CONCOURSE B — 1 / S3.00
1/8" = 1'-0"

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gordonjohnsonarchitecture.com

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NORTH CAROLINA PROFESSIONAL SEAL 039250 ENGINEER SARAH J. DUNCAN
07/31/23

Fayetteville Regional Airport Airline Terminal Improvements - Part 3

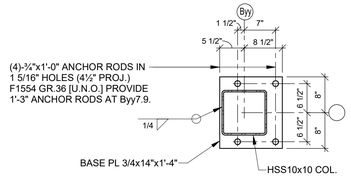
400 Airport Road
Fayetteville, North Carolina 28306

PARTIAL ROOF FRAMING PLAN - CONCOURSE B

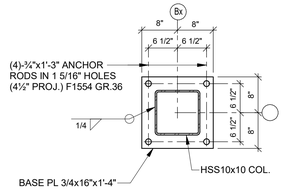
DRAWN BY: Author
REVIEWED BY: SF
DATE: 08/30/22
PROJECT NO: 23-58
NOTES:

REVISIONS

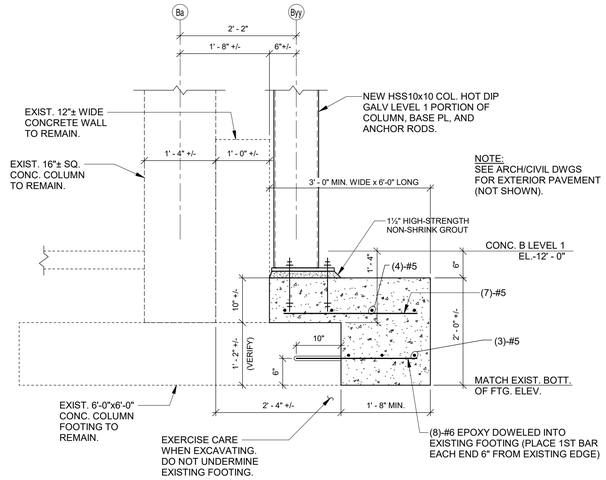
SHEET NUMBER
S3.00



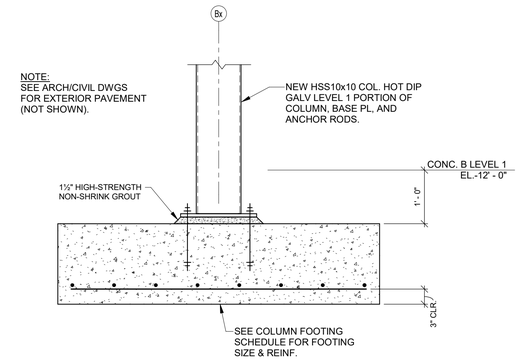
HSS10x10 BASE PL - Byy5, Byy6, Byy7 & Byy7.9 — 2 / S4.00
3/4" = 1'-0"



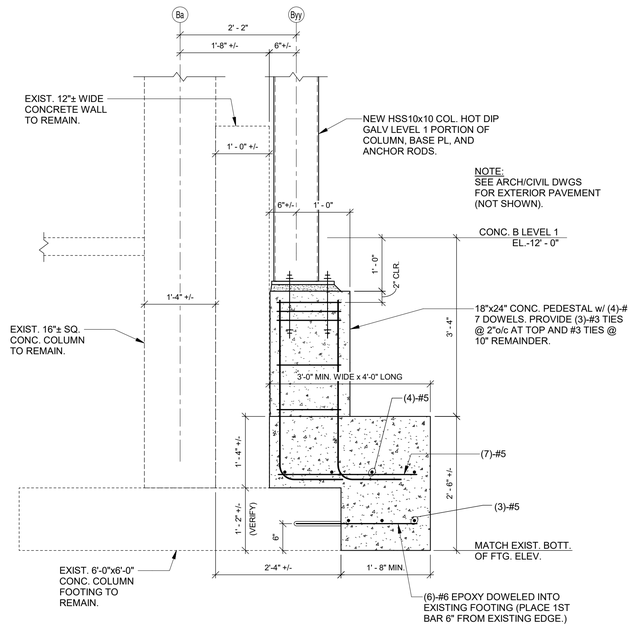
HSS10x10 BASE PL - Bx TYP. — 5 / S4.00
3/4" = 1'-0"



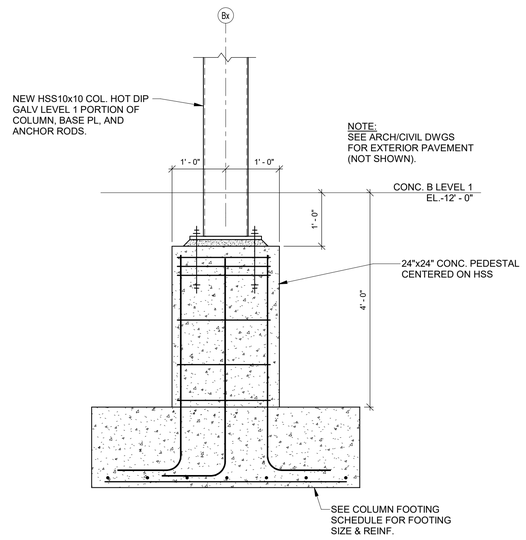
TYPICAL COLUMN FOOTING ALONG Byy AT 5/6 & 7 — 1 / S4.00
3/4" = 1'-0"



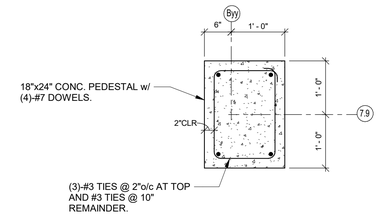
TYPICAL COLUMN FOOTING ALONG Bx AT 5/6 & 7 — 4 / S4.00
3/4" = 1'-0"



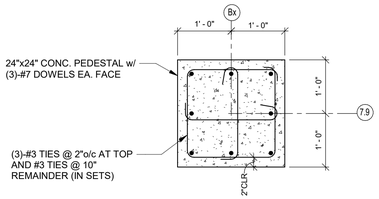
COLUMN FOOTING AT Byy7.9 — 3 / S4.00
3/4" = 1'-0"



COLUMN FOOTING AT Bx7.9 — 6 / S4.00
3/4" = 1'-0"



COLUMN PEDESTAL AT Byy7.9 — 7 / S4.00
3/4" = 1'-0"



COLUMN PEDESTAL AT Bx7.9 — 8 / S4.00
3/4" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 039250 ENGINEER SARAH J. DUNCAN
07/31/23

Fayetteville Regional Airport Airline Terminal Improvements - Part 3

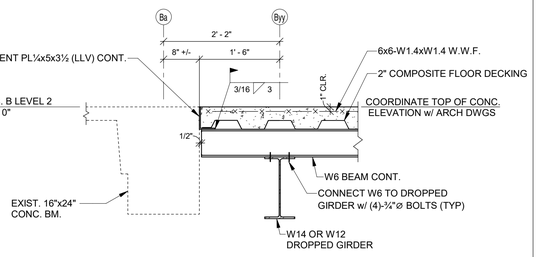
400 Airport Road
Fayetteville, North Carolina 28306

FOUNDATION SECTIONS & DETAILS

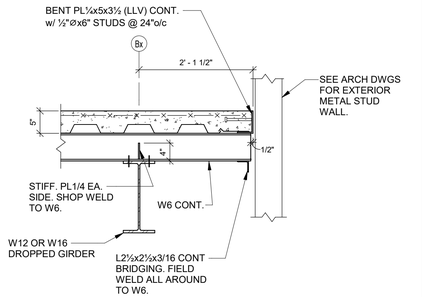
DRAWN BY: SD
REVIEWED BY: JK
DATE: 07/31/23
PROJECT NO: 23-58
NOTES:

REVISIONS

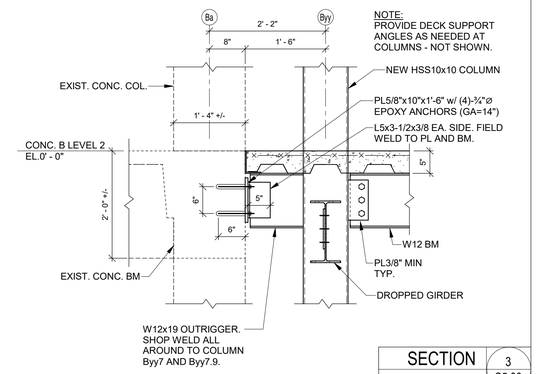
SHEET NUMBER
S4.00



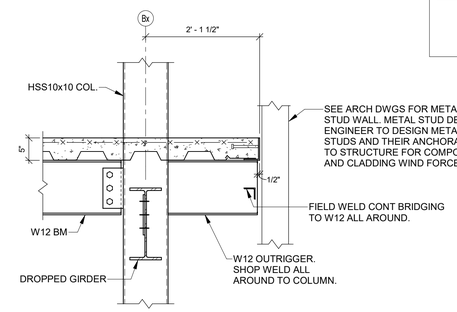
SECTION 1 / SCALE: 3/4" = 1'-0" / S5.00



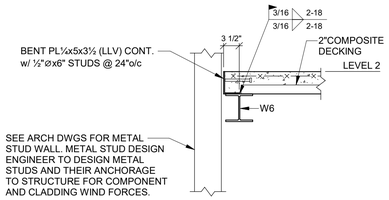
SECTION 2 / SCALE: 3/4" = 1'-0" / S5.00



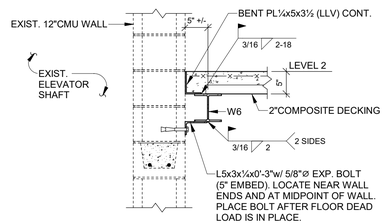
SECTION 3 / SCALE: 3/4" = 1'-0" / S5.00



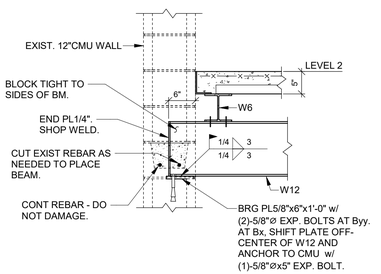
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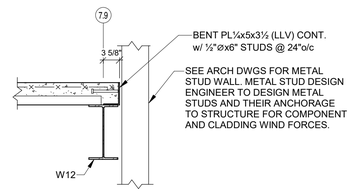
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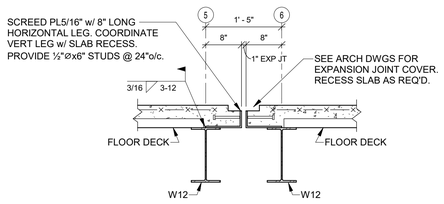
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SECTION 7 / SCALE: 3/4" = 1'-0" / S5.00



SECTION 8 / SCALE: 3/4" = 1'-0" / S5.00



SECTION 9 / SCALE: 3/4" = 1'-0" / S5.00

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NORTH CAROLINA PROFESSIONAL SEAL 039250 ENGINEER SARAH J. DUNCAN
07/31/23

Fayetteville Regional Airport Airline Terminal Improvements - Part 3

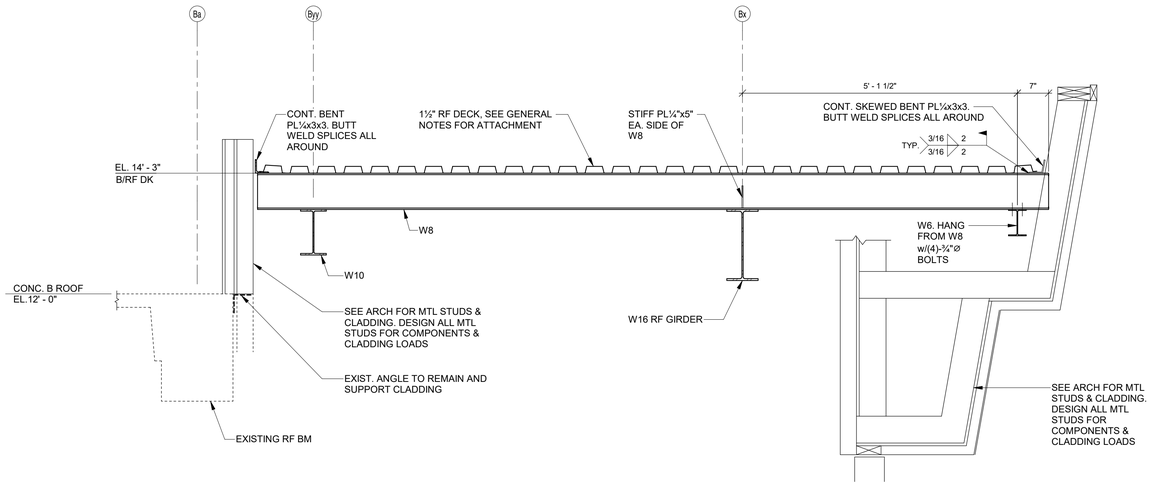
FLOOR SECTIONS

400 Airport Road
Fayetteville, North Carolina 28306

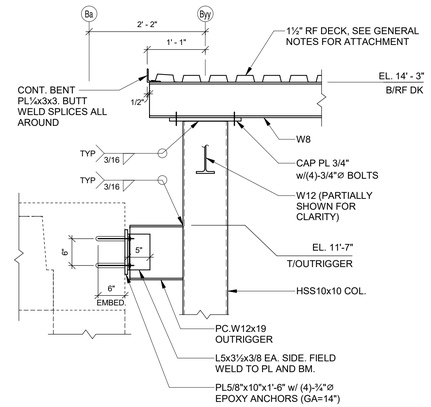
DRAWN BY: Author
REVIEWED BY: SF
DATE: 09/19/22
PROJECT NO: 23-58
NOTES:

REVISIONS

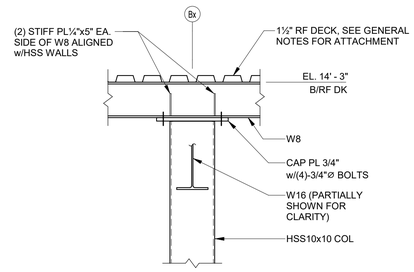
SHEET NUMBER
S5.00



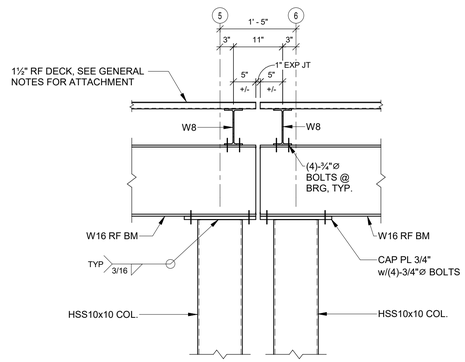
SECTION 1 — SCALE: 3/4" = 1'-0" — S6.00



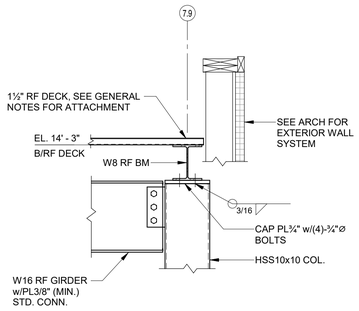
SECTION 2 — SCALE: 3/4" = 1'-0" — S6.00



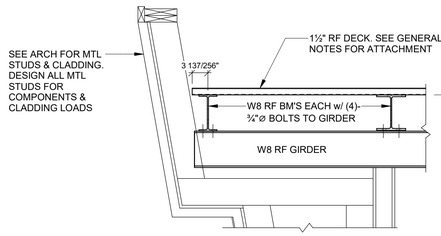
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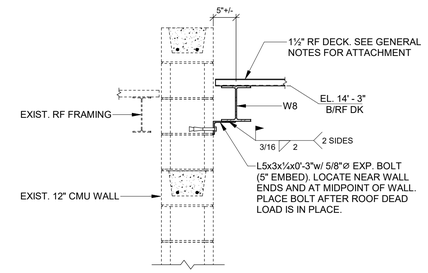
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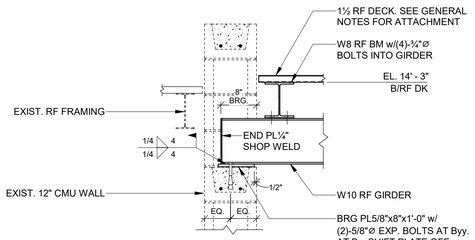
SECTION 5 — SCALE: 3/4" = 1'-0" — S6.00



SECTION 6 — SCALE: 3/4" = 1'-0" — S6.00



SECTION 7 — SCALE: 3/4" = 1'-0" — S6.00



SECTION 8 — SCALE: 3/4" = 1'-0" — S6.00

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NORTH CAROLINA PROFESSIONAL SEAL 039250 ENGINEER SARAH J. DUNCAN
07/31/23

Fayetteville Regional Airport Airline Terminal Improvements - Part 3

ROOF SECTIONS

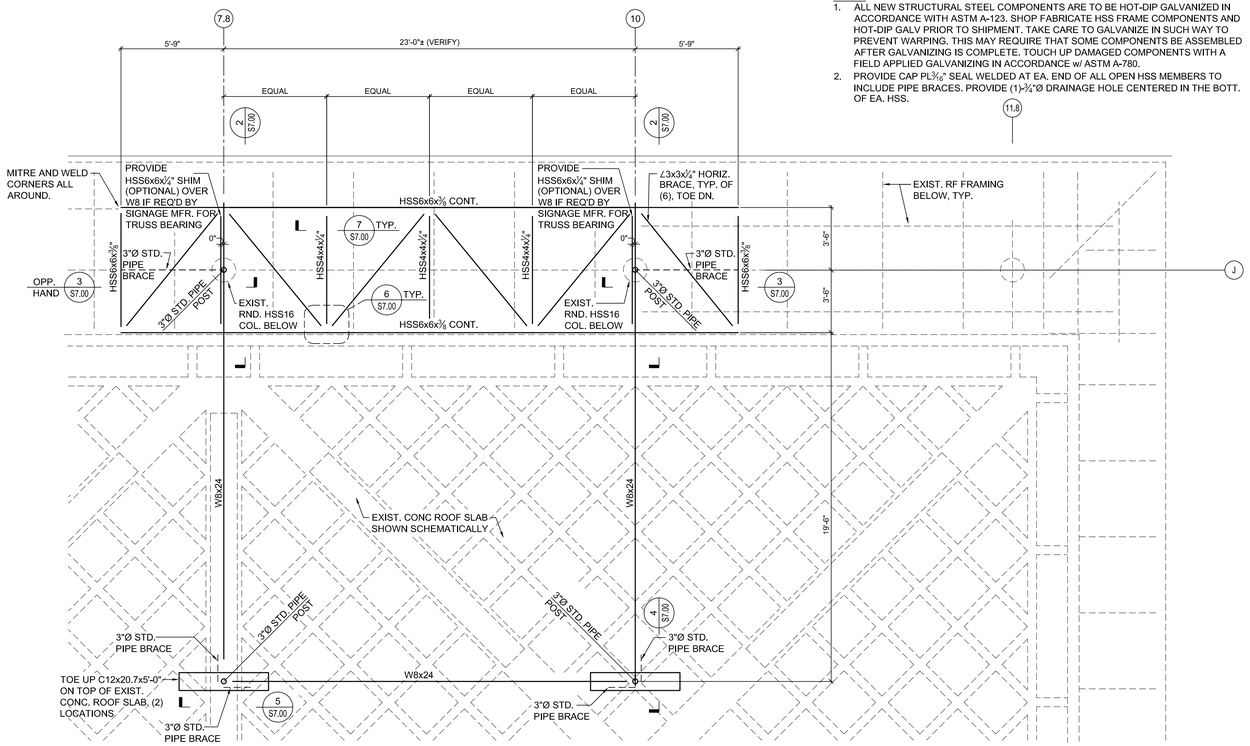
400 Airport Road
Fayetteville, North Carolina 28306

DRAWN BY: Author
REVIEWED BY: SF
DATE: 09/24/22
PROJECT NO: 23-58
NOTES:

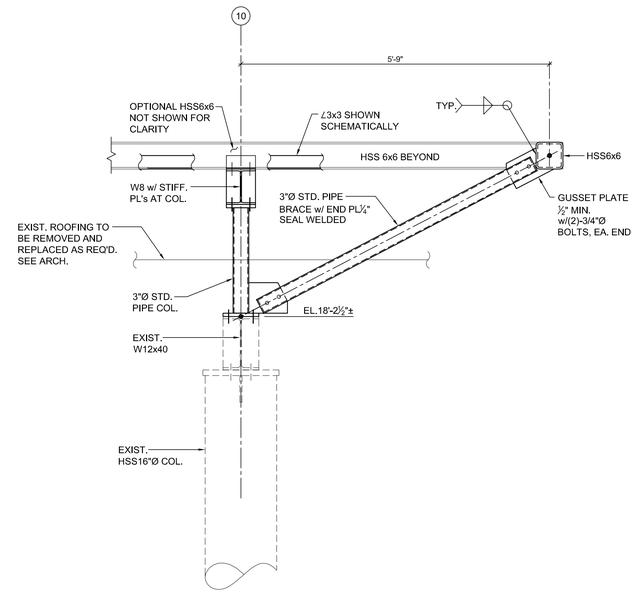
REVISIONS

SHEET NUMBER
S6.00

NOTES
1. ALL NEW STRUCTURAL STEEL COMPONENTS ARE TO BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A-123. SHOP FABRICATE HSS FRAME COMPONENTS AND HOT-DIP GALV PRIOR TO SHIPMENT. TAKE CARE TO GALVANIZE IN SUCH WAY TO PREVENT WARPING. THIS MAY REQUIRE THAT SOME COMPONENTS BE ASSEMBLED AFTER GALVANIZING IS COMPLETE. TOUCH UP DAMAGED COMPONENTS WITH A FIELD APPLIED GALVANIZING IN ACCORDANCE w/ ASTM A-780.
2. PROVIDE CAP PL⅜" SEAL WELDED AT EA. END OF ALL OPEN HSS MEMBERS TO INCLUDE PIPE BRACES. PROVIDE (1)-¾"Ø DRAINAGE HOLE CENTERED IN THE BOTT. OF EA. HSS.



SIGN SUPPORT FRAMING PLAN 1 — 1/4" = 1'-0" S7.00



NOTE:
SEE 2/S7.00 FOR INFO NOT SHOWN

SECTION 3 — 3/4" = 1'-0" S7.00

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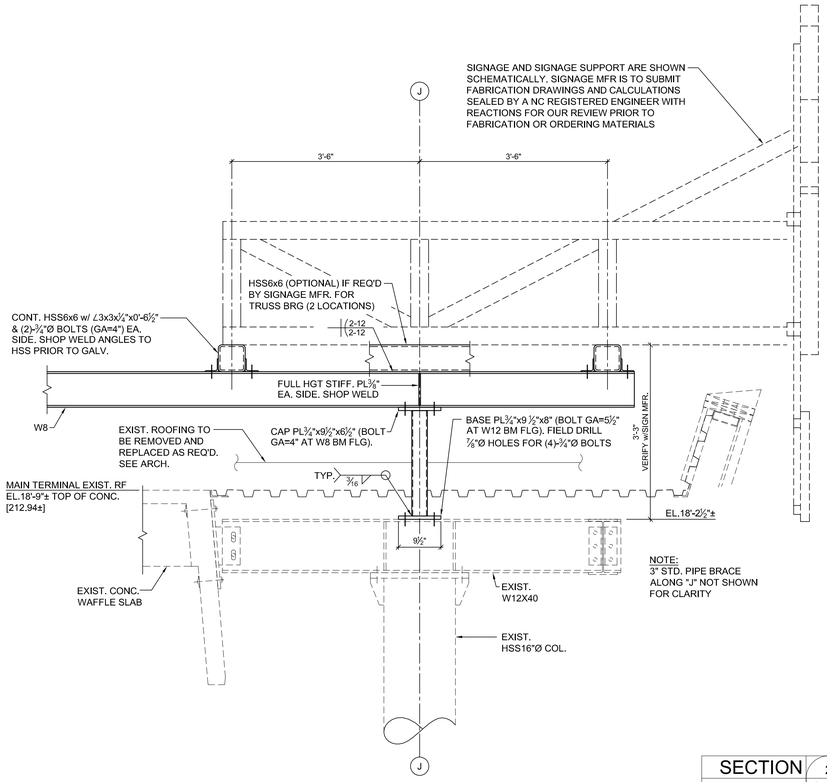
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 37427 JOHN L. KELLS
08/15/23

Scope of Work:
Provide structural support for new airport signage at main terminal roof.

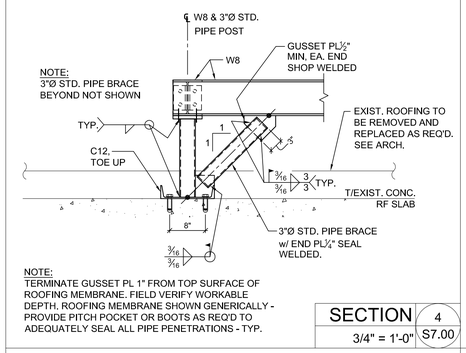
1. Materials
   - A. Structural Steel — ASTM A-36 U.N.O.; ASTM A-992 at all beams
   - B. HSS Rectangular — ASTM A-500 Gr.C, Fy=50ksi
   - C. Structural Pipe — ASTM A-53 Gr.B, Fy=35ksi
   - D. Bolts — ASTM F-3125, Gr.A-325N w/ASTM A-563 heavy hex nuts and ASTM F-436 washers (U.N.O.)
   - E. Expansion Bolts — Hilti Kwik Bolt III (or equal)
   - F. Epoxy Anchoring System — Hilti HIT-HY 270 (or equal) for anchorage to concrete

2. Superstructure
   - A. All welders, shop and field, will be certified for the type of work involved. Submit certifications.
   - B. All structural bolts will have heavy hex nuts.
   - C. Unless shown otherwise all field welds will be 3/16 inch fillet welds.
   - **D. General Contractor to verify all existing dimensions, elevations, and conditions before fabricating steel.** Notify the engineer of any significant discrepancies
   - E. Coatings **- Hot-dip galvanize steel according to ASTM A-123. Touch up welds and damaged areas with a field applied galvanizing according to ASTM A780.**
   - F. General Contractor will be responsible for properly guying and bracing the structure to resist live, dead, wind, and construction loads during construction. An unstable condition exists until all the structural components are in place.
   - G. General Contractor is responsible to coordinate locations of braces, bridging, and miscellaneous framing to avoid conflict with ducts, plumbing, or any other utility.

NOTES 1A — NO SCALE S7.00



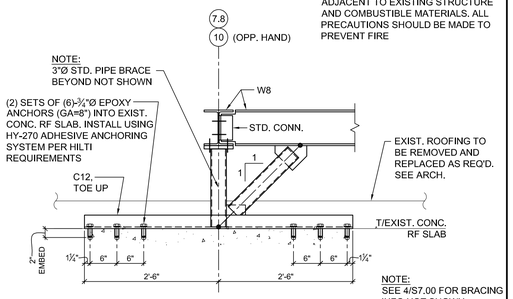
SECTION 2 — 3/4" = 1'-0" S7.00



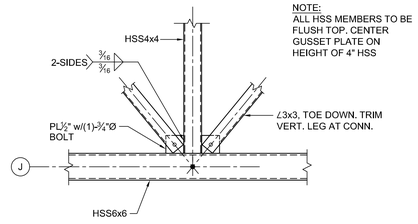
NOTE:
TERMINATE GUSSET PL 1" FROM TOP SURFACE OF ROOFING MEMBRANE. FIELD VERIFY WORKABLE DEPTH. ROOFING MEMBRANE SHOWN GENERICALLY - PROVIDE PITCH POCKET OR BOOTS AS REQ'D TO ADEQUATELY SEAL ALL PIPE PENETRATIONS - TYP.

SECTION 4 — 3/4" = 1'-0" S7.00

NOTE!
TAKE EXTREME CARE WHEN WELDING ADJACENT TO EXISTING STRUCTURE AND COMBUSTIBLE MATERIALS. ALL PRECAUTIONS SHOULD BE MADE TO PREVENT FIRE

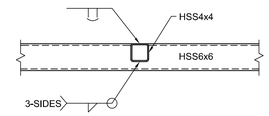


SECTION 5 — 3/4" = 1'-0" S7.00



NOTE:
ALL HSS MEMBERS TO BE FLUSH TOP. CENTER GUSSET PLATE ON HEIGHT OF 4" HSS

PLAN DETAIL 6 — 3/4" = 1'-0" S7.00



SECTION 7 — 3/4" = 1'-0" S7.00

Fayetteville Regional Airport Airline Terminal Improvements – Part 3
400 Airport Road
Fayetteville, North Carolina 28306

SIGN SUPPORT FRAMING PLAN & DETAILS

DRAWN BY: J. Kells
REVIEWED BY: S. Duncan
DATE: 8-01-23
PROJECT NO.: 23-58
NOTES:

REVISIONS
1 8/14/23 GENERAL REV'S
2 8/15/23 SHEET NUMBER (WHOLE SHEET)

SHEET NUMBER 2
S7.00

SPRINKLER SYSTEM DESIGN CRITERIA

1. THE EXISTING BUILDING IS FULLY PROTECTED WITH AN AUTOMATIC WET SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA-13.
2. THE FIRE PROTECTION CONTRACTOR SHALL DESIGN THE MODIFICATIONS TO THE EXISTING AUTOMATIC WET SPRINKLER SYSTEM FOR THE PROJECT AREA IN ACCORDANCE WITH NFPA-13.
3. THE MINIMUM DESIGN DENSITY SHALL BE 0.10 GPM PER SQUARE FOOT FOR THE HYDRAULICALLY MOST REMOTE 1,500 SQUARE FEET. LIGHT HAZARD AS DEFINED BY NFPA-13. AREAS OTHER THAN LIGHT HAZARD ARE INDICATED ON THE FLOOR PLANS.
4. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING THE SPRINKLERS IN ACCORDANCE WITH NFPA-13 AND THE LOCAL INSPECTIONS DEPARTMENT. SPRINKLERS SHALL BE LOCATED IN THE CENTER OF CEILING TILES.
5. THE SCOPE OF WORK INCLUDES REPLACING SPRINKLERS AS REQUIRED TO ACCOMMODATE NEW CEILINGS. HYDRAULIC CALCULATIONS ARE NOT REQUIRED.
6. ALL NEW SPRINKLER PIPING SHALL BE SCHEDULE 40 STEEL WITH SCREW FITTINGS. USE 1" ARMOVER TO CONNECT SPRINKLERS.
7. FLEXIBLE CONNECTIONS ARE NOT ACCEPTABLE.
8. ALL NEW SPRINKLERS SHALL MATCH EXISTING.
9. ALL SPRINKLER HEAD TEMPERATURE RATINGS SHALL BE ORDINARY (165°F) UNLESS OTHERWISE INDICATED. ALL SPRINKLERS INSTALLED IN GYPSUM, PLASTER AND WOOD CEILINGS SHALL BE CONCEALED TYPE. ALL SPRINKLERS IN ACOUSTICAL, GYPSUM, AND/OR CORK CEILING SHALL BE SEMI-RECESSED TYPE.
10. FIRE CAULK AND SLEEVE ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. REFER TO LIFE SAFETY PLANS FOR RATED ASSEMBLY LOCATIONS.
11. ALL LOW POINTS OF THE SPRINKLER SYSTEM SHALL BE PROVIDED WITH DRAINS PER NFPA-13, 2013 EDITION. LOW POINT DRAINS SHALL BE CLEARLY MARKED AND PIPED TO THE EXTERIOR OF THE BUILDING. A VALVE DRAWING SHALL BE PROVIDED IN MECHANICAL ROOM SHOWING THE LOCATIONS OF ALL LOW POINT DRAINS.
12. REVIEW ALL ARCHITECTURAL DRAWINGS, INCLUDING ALL REFLECTED CEILING PLANS PRIOR TO PREPARING THE BID.

FIRE PROTECTION LEGEND

PIPING SYMBOLS

SYMBOL	DESCRIPTION
—SPR—	SPRINKLER LINE

COMPONENTS AND SPECIALTIES

SYMBOL	DESCRIPTION
	SPRINKLER
	PIPE DROP
	PIPE RISE
	PIPE CAP
	BRANCH TAKE OFF
	PIPE DROP TEE
	PIPE RISE TEE

GENERAL SYMBOLS

LINETYPE SYMBOLS

DESIGNATION	DESCRIPTION
- - - - - - - -	DEMOLITION WORK
————	EXISTING WORK
————	NEW WORK

REFERENCE SYMBOLS

DESIGNATION	DESCRIPTION
XX / X X	FLOOR PLAN NUMBER PARTIAL FLOOR PLAN NUMBER ELEVATION = LETTER DETAIL = NUMBER
	SHEET NUMBER ON WHICH THE PARTIAL PLAN, ELEVATION OR DETAIL IS DRAWN
	SHEET NUMBER WHERE PARTIAL PLAN, ELEVATION OR DETAIL IS TAKEN FROM
N	NORTH ARROW
	POINT OF CONNECTION TO EXISTING
	POINT OF DISCONNECTION

GENERAL ABBREVIATIONS

NOTE: THIS IS A STANDARD ABBREVIATION LIST. SOME ABBREVIATIONS MAY NOT APPEAR ON THE ACCOMPANYING DRAWINGS.

A	COMPRESSED AIR	FOT	FUEL OIL TRANSFER	OED	OPEN ENDED DUCT
AAV	AUTOMATIC AIR VENT	FOV	FUEL OIL VENT	OS&Y	OUTSIDE STEM AND YOKE
ACV	AUTOMATIC CONTROL VALVE	FPM	FEET PER MINUTE		
AD	ACCESS DOOR, AREA DRAIN	FPS	FEET PER SECOND	P&ID	PROCESS AND INSTRUMENTATION DIAGRAM
AF	ANTIFREEZE	FS	FLOW SWITCH	PA	PLANT AIR
AFF	ABOVE FINISHED FLOOR	FT	FOOT, FEET	PC	PUMPED CONDENSATE
AR	ARGON GAS	FWR	FEED WATER RETURN	PCR	PUMPED CONDENSATE RECIRCULATION
ATC	AUTOMATIC TEMPERATURE CONTROL	FWS	FEED WATER SUPPLY	PCHR	PRIMARY CHILLED WATER RETURN
				PCHS	PRIMARY CHILLED WATER SUPPLY
BAS	BUILDING AUTOMATION SYSTEM	G	NATURAL GAS	PCWR	PROCESS COOLING WATER RETURN
BBD	BOILER BLOWDOWN	GHR	GLYCOL HEATING RETURN	PCWS	PROCESS COOLING WATER SUPPLY
BCWR	BEARING COOLING WATER RETURN	GHS	GLYCOL HEATING SUPPLY	PD	PRESSURE DROP, PUMP DISCHARGE
BCWS	BEARING COOLING WATER SUPPLY	GPH	GALLONS PER HOUR	PGR	PROCESS GLYCOL WATER RETURN
BDD	BACKDRAFT DAMPER	GPM	GALLONS PER MINUTE	PGS	PROCESS GLYCOL WATER SUPPLY
BFP	BACKFLOW PREVENTER	GR	AUTOMOTIVE LUBRICATION PIPING	PH	PHASE
BHP	BRAKE HORSEPOWER			PHR	PRIMARY HEATING RETURN
BMS	BUILDING MANAGEMENT SYSTEM	H	HIGH	PHS	PRIMARY HEATING SUPPLY
BO	BLOW OFF	HB	HOSE BIBB	PIV	POST INDICATING VALVE
BTU	BRITISH THERMAL UNIT	HED	HOSE END DRAIN VALVE	PPH	POUNDS PER HOUR
BTUH	BRITISH THERMAL UNIT PER HOUR	HP	HORSEPOWER	PRV	PRESSURE REDUCING VALVE
		HPR	HIGH PRESSURE STEAM RETURN	PSI	POUNDS PER SQUARE INCH
°C	DEGREE(S) CELSIUS	HPS	HIGH PRESSURE STEAM SUPPLY	PSIG	POUNDS PER SQUARE INCH GAUGE
CA	CONTROL AIR	HR	HEATING WATER RETURN		
CBD	CONTINUOUS BLOWDOWN	HRR	HEAT RECOVERY RETURN	RA	RETURN AIR, RELIEF AIR
CC	CAMPUS CONDENSATE	HRS	HEAT RECOVERY SUPPLY	RD	REFRIGERANT DISCHARGE
CCMS	CENTRAL CONTROL AND MONITORING SYSTEM	HS	HEATING WATER SUPPLY	RH	RELATIVE HUMIDITY
CD	CONDENSATE DRAIN	HT	HEIGHT	RHR	REHEAT WATER RETURN
CF	CHEMICAL FEED	HTHR	HIGH TEMPERATURE HEATING WATER RETURN	RHS	REHEAT WATER SUPPLY
CFM	CUBIC FEET PER MINUTE	HTHS	HIGH TEMPERATURE HEATING WATER SUPPLY	RL	REFRIGERANT LIQUID
CHR	CHILLED WATER RETURN	HW	HOT WATER	ROR	REVERSE OSMOSIS WATER RETURN
CHS	CHILLED WATER SUPPLY	HWR	HOT WATER RECIRCULATION	ROS	REVERSE OSMOSIS WATER SUPPLY
CO	CLEANOUT	HZ	HERTZ	RPM	REVOLUTIONS PER MINUTE
CO2	CARBON DIOXIDE			RS	REFRIGERANT SUCTION
CS	CLEAN STEAM	IA	INSTRUMENT AIR	RV	RELIEF VENT, REFRIGERANT VENT
CW	COLD WATER, CITY WATER	ICW	INDUSTRIAL COLD WATER	RX	REMOVE EXISTING
CWR	CONDENSER WATER RETURN	IHW	INDUSTRIAL HOT WATER		
CWS	CONDENSER WATER SUPPLY	IHR	INDUSTRIAL HOT WATER RECIRCULATION	SA	SUPPLY AIR
		IN	INCH, INCHES	SAN	SANITARY, SOIL, WASTE
D	DEEP, DRAIN WATER	INV EL	INVERT ELEVATION	SCHR	SECONDARY CHILLED WATER RETURN
DB	DECIBEL, DRY BULB			SCHS	SECONDARY CHILLED WATER SUPPLY
DDC	DIRECT DIGITAL CONTROL	KW	KILOWATTS	SD	STORM DRAIN, SMOKE DETECTOR
DHR	DISTRIBUTION HEATING WATER RETURN			SF	SQUARE FOOT
DHS	DISTRIBUTION HEATING WATER SUPPLY	L	LONG, LENGTH	SHR	SECONDARY HEATING WATER RETURN
DIR	DEIONIZED WATER RETURN	LA	LABORATORY AIR	SHS	SECONDARY HEATING WATER SUPPLY
DIS	DEIONIZED WATER SUPPLY	LAT	LEAVING AIR TEMPERATURE	SL	SOUND LINING
DL	DOOR LOUVER	LBS	POUNDS	SP	STATIC PRESSURE
DN	DOWN	LBS/HR	POUNDS PER HOUR	SPR	SPRINKLER LINE
DSP	DRY SPRINKLER PIPE	LN	LIQUID NITROGEN	SS	STAINLESS STEEL
DTR	DUAL TEMPERATURE RETURN	LP	LIQUID PROPANE	SQ FT	SQUARE FOOT
DTS	DUAL TEMPERATURE SUPPLY	LPG	LIQUID PETROLEUM GAS	SW	SOFT WATER
DW	DISTILLED WATER	LPR	LOW PRESSURE STEAM RETURN		
		LPS	LOW PRESSURE STEAM SUPPLY	△T	TEMPERATURE DIFFERENCE
EA	EXHAUST AIR	LV	LABORATORY VENT, LABORATORY VACUUM	TS	TAMPER SWITCH
EAT	ENTERING AIR TEMPERATURE	LW	LABORATORY WASTE	TSP	TOTAL STATIC PRESSURE
EJ	EXPANSION JOINT	LWT	LEAVING WATER TEMPERATURE	TWR	TEMPERED WATER RETURN
EMS	ENERGY MANAGEMENT SYSTEM			TWS	TEMPERED WATER SUPPLY
ESP	EXTERNAL STATIC PRESSURE	MA	MEDICAL AIR	TW	TREATED WATER
ETC	ETCETERA	MAV	MANUAL AIR VENT	TYP	TYPICAL
EVAC	GAS EVACUATION	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR		
EWT	ENTERING WATER TEMPERATURE	MCC	MOTOR CONTROL CENTER	UCD	UNDERCUT DOOR
EX	EXISTING	MO	MOTOR OIL PIPING	UL	UNDERWRITERS LABORATORIES
		MOD	MOTOR OPERATED DAMPER		
°F	DEGREE(S) FAHRENHEIT	MPR	MEDIUM PRESSURE STEAM RETURN	V	VACUUM, VOLTS
F	FIRE LINE	MPS	MEDIUM PRESSURE STEAM SUPPLY	VD	VOLUME DAMPER
FC	FLEXIBLE CONNECTION	MV	MEDICAL VACUUM	VFD	VARIABLE FREQUENCY DRIVE
FD	FIRE DAMPER, FOUNDATION DRAIN			VPD	VACUUM PUMP DISCHARGE
FDV	FIRE DEPARTMENT VALVE	N	NITROGEN	VSD	VARIABLE SPEED DRIVE
FF	FINISHED FLOOR	NA	NOT APPLICABLE	VTR	VENT THROUGH ROOF
FFE	FINISHED FLOOR ELEVATION	NC	NOISE CRITERIA, NORMALLY CLOSED		
FIN/FT	FINS PER FEET	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	W	WATTS, WIDE
FIN/INCH	FINS PER INCH	NO	NORMALLY OPEN, NITROUS OXIDE	WB	WET BULB
FM	FLOWMETER	NPSH	NET POSITIVE SUCTION HEAD	WC	WATER COLUMN
FMF	FLOWMETER FITTING			WG	WATER GAUGE
FOF	FUEL OIL FILL	O	OXYGEN	WH	WALL HYDRANT
FOO	FUEL OIL OVERFLOW	OA	OUTSIDE AIR	WWF	WELDED WIRE FABRIC
FOR	FUEL OIL RETURN	OD	OVERFLOW DRAIN	WWM	WELDED WIRE MESH
FOS	FUEL OIL SUPPLY				

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NORTH CAROLINA PROFESSIONAL SEAL 049161 ENGINEER MATTHEW L. MONTAGUE
07/31/23

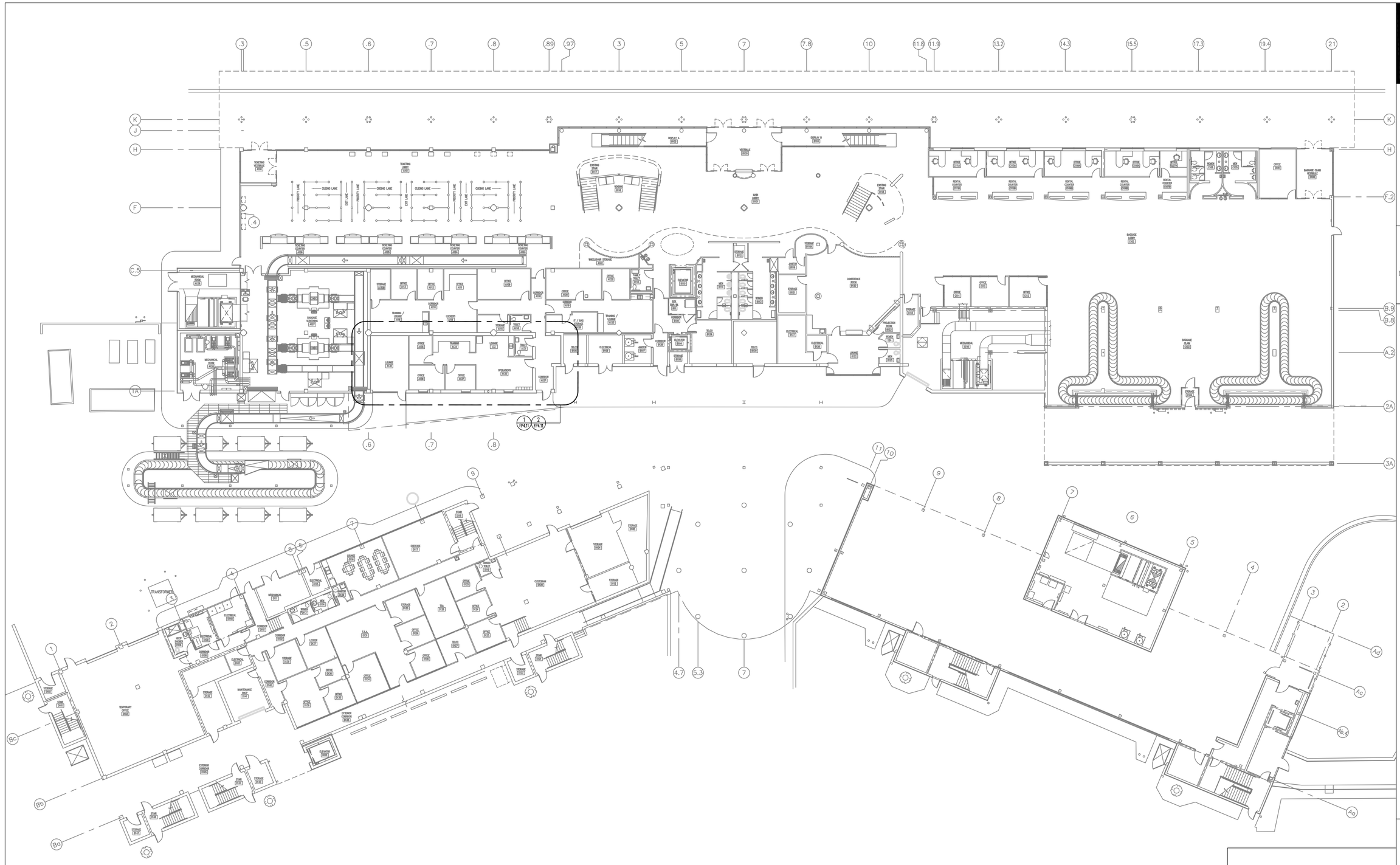
Fayetteville Regional Airport Airline Terminal Improvements – Part 3
400 Airport Road
Fayetteville, North Carolina 28306

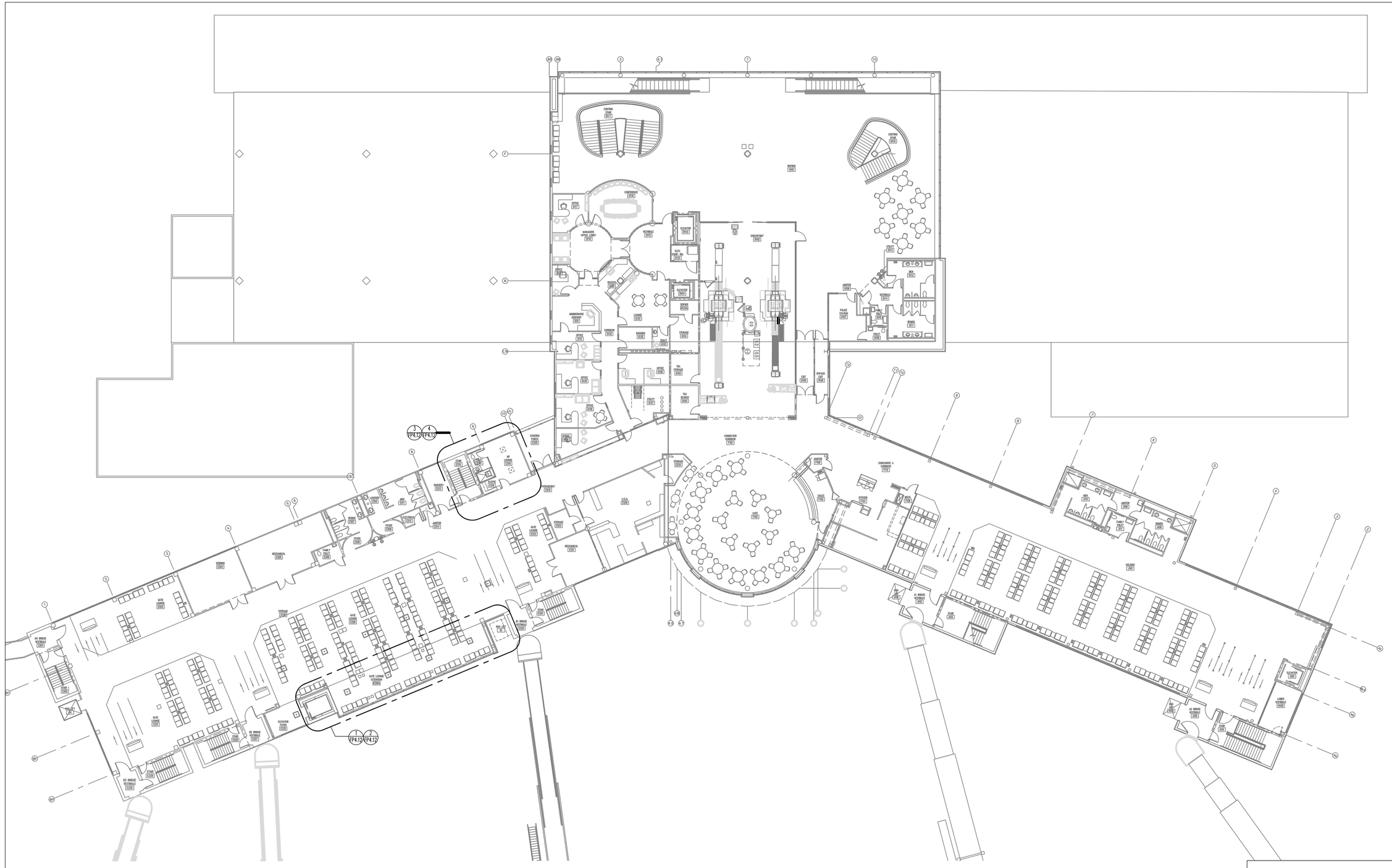
FIRE PROTECTION LEGEND, SYMBOLS AND ABBREVIATIONS

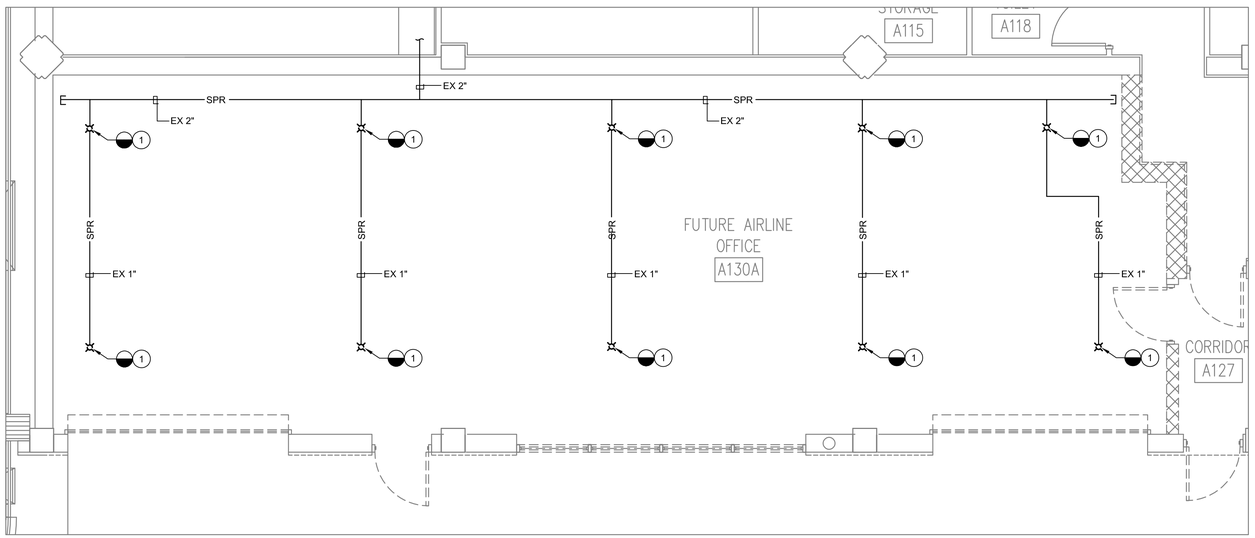
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REVIEWED BY: ALM
DATE: 7/31/2023
PROJECT NO.: 02230515.A0
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FP1.01

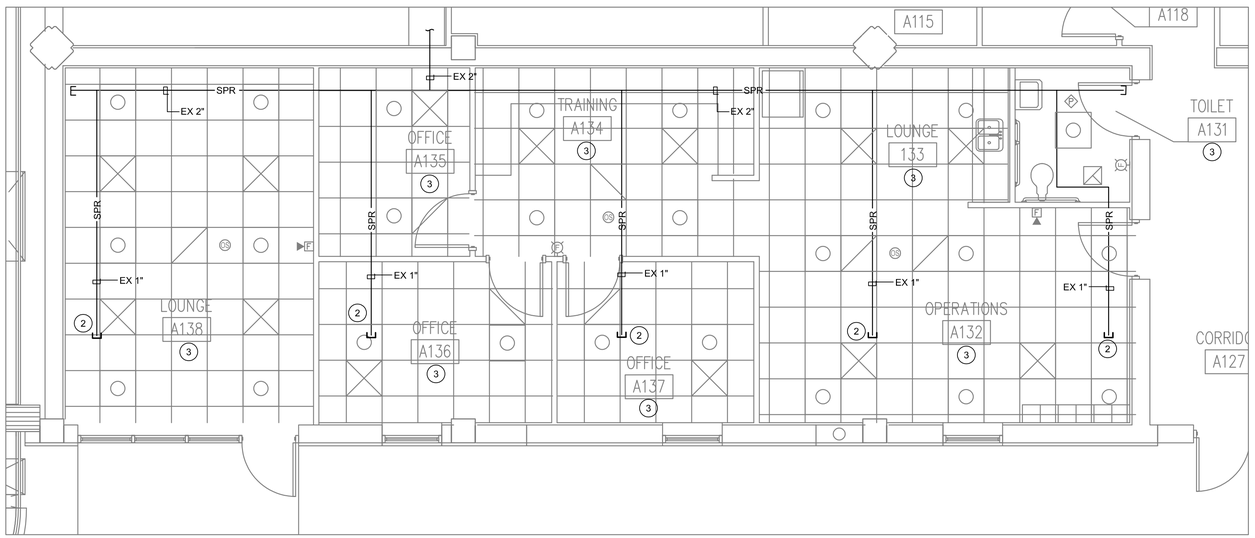

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MEN C017
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OFFICE C019
BAGGAGE CLAIM VESTIBULE C000
BAGGAGE CLAIM A100
BAGGAGE A000
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BAGGAGE SCREENING A106
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MANAGERS OFFICE, ASST 101C
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MEN 713
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STAIR 720
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STAIR 723
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ELEVATOR 726
B2 BRIDGE VESTIBULE 727
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B3 BRIDGE VESTIBULE 729
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GATE LOUNGE EXISTING 740
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VESTIBULE 746
STAIR 747
B5 BRIDGE VESTIBULE 748
STAIR 749
ELEVATOR 750
B6 BRIDGE VESTIBULE 751
STAIR 752
GATE LOUNGE 753
GATE LOUNGE 754
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AIRLINE OFFICE DEMOLITION PLAN - FIRE PROTECTION

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



AIRLINE OFFICE NEW WORK PLAN - FIRE PROTECTION

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

GENERAL NOTES:

A. NOTIFY THE OWNER, IN WRITING, AT LEAST SEVEN (7) DAYS IN ADVANCE OF ALL REQUIRED SHUTDOWNS OF ELECTRICAL SERVICE, OR OTHER UTILITIES. UPON WRITTEN RECEIPT OF APPROVAL FROM OWNER, SHUTDOWNS SHALL BE ACCOMPLISHED AT NO ADDITIONAL CONTRACT COST. AT THE END OF EACH SHUT DOWN ALL SERVICES SHALL BE RESTORED.

B. WHEN WORKING IN AND AROUND THE EXISTING BUILDING, EXTREME CARE SHALL BE EXERCISED WITH REGARD TO PROTECTION OF THE EXISTING STRUCTURE AND MECHANICAL AND ELECTRICAL SERVICES WHICH WILL REMAIN. REPAIR, REPLACE, OR RESTORE TO THE SATISFACTION OF THE OWNER ALL EXISTING WORK DAMAGED IN THE PERFORMANCE OF DEMOLITION AND/OR NEW YORK

C. ALL PIPING, SPRINKLERS, AND MATERIALS NOT REQUIRED FOR RE-USE OR RE-INSTALLATION (SHOWN OR OTHERWISE) SHALL BE REMOVED. ALL EXISTING MATERIALS AND EQUIPMENT WHICH ARE REMOVED AND ARE DESIRED BY THE OWNER, OR ARE INDICATED TO THE PREMISES BY THE CONTRACTOR WHERE DIRECTED BY THE ENGINEER. ALL OTHER MATERIALS AND EQUIPMENT WHICH ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED BY THE CONTRACTOR FROM THE PREMISES.

D. EXISTING CONDITIONS, I.E., PRESENCE AND LOCATION OF PIPING, SPRINLERS, EQUIPMENT, AND MATERIALS, INDICATED ARE BASED ON INFORMATION OBTAINED FROM AVAILABLE RECORD DRAWINGS AND FIELD SURVEYS AND ARE NOT WARRANTED TO BE COMPLETE OR CORRECT. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL PIPING, SPRINLERS, EQUIPMENT, AND MATERIALS IN THE FIELD PRIOR TO STARTING ALL WORK.

E. EXISTING EQUIPMENT SIZES NOTED ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND ARE NOT WARRANTED TO BE CORRECT. CONTRACTOR SHALL VERIFY ALL SIZES IN THE FIELD IF THEY EFFECT HIS WORK.

F. WHEN EXISTING FIRE PROTECTION WORK IS REMOVED, ALL PIPING, SPRINLERS AND MATERIALS SHALL BE REMOVED TO A POINT BELOW THE FINISHED FLOORS OR BEHIND FINISHED WALLS AND CAPPED. SUCH POINTS SHALL BE FAR ENOUGH BEHIND FINISHED SURFACES TO ALLOW FOR THE INSTALLATION OF THE NORMAL THICKNESS OF FINISHED MATERIAL.

G. EXISTING PIPING & SPRINKLERS NO LONGER REQUIRED TO REMAIN IN SERVICE (SHOWN OR OTHERWISE) SHALL BE DISCONNECTED AND REMOVED BACK TO TO THE MAIN UNLESS OTHERWISE INDICATED OR NOTED ON THE PLANS. REMOVE EXISTING PIPE HANGERS, SUPPORTS, ETC..

H. EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT. CONDUIT, WIRING, DEVICES, AND MATERIALS AFFECTED BY DEMOLITION OR NEW WORK INSTALLATION AND REQUIRED TO REMAIN IN SERVICE SHALL BE REINSTALLED OR SUPPORTED AS REQUIRED IN ACCORDANCE WITH NEW WORK SPECIFICATION. ALL WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER AND AT NO ADDITIONAL CONTRACT COST.

I. PATCH TO MATCH EXISTING ALL NEW AND EXISTING OPENING AND WALLS, CEILINGS, ROOF, AND FLOOR SURFACES DAMAGED OR CREATED BY DEMOLITION WORK. PATCHING WHERE POSSIBLE SHALL MATCH EXISTING ADJACENT SURFACES AS TO THICKNESS, TEXTURES, MATERIALS, AND COLOR. ALL PATCHING SHALL BE PERFORMED TO THE SATISFACTION OF THE ARCHITECT AND AT NO ADDITIONAL CONTRACT COST.

J. IN GENERAL ALL EQUIPMENT AND MATERIALS SHOWN "LIGHT" IS EXISTING TO REMAIN. ALL EQUIPMENT AND MATERIALS SHOWN "HEAVY AND DASHED" IS EXISTING AND SHALL BE DEMOLISHED.

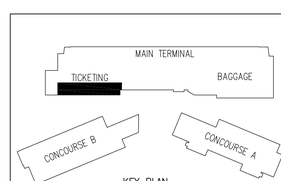
DRAWING NOTES:

1. DISCONNECT AND REMOVE EXISTING UPRIGHT SPRINKLER AND ASSOCIATED PIPING BACK TO DISCONNECTION POINT.
2. CAP OPEN END OF SPRINKLER PIPING IF THE PIPING IS NOT BEING EXTENDED FOR THE NEW SPRINKLER COVERAGE.
3. PROVIDE NEW PENDENT SPRINKLERS IN THE SPACE IN ACCORDANCE WITH THE 2013 VERSION OF NFPA-13. CONNECT NEW SPRINKLER PIPING TO THE EXISTING SPRINKLER PIPING SHOWN.

FIRE RATED WALL LEGEND

1 HOUR FIRE PARTITION

1 HOUR FIRE BARRIER



KEY PLAN

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

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NORTH CAROLINA PROFESSIONAL SEAL 030437 ENGINEER JEFFREY L. MONROE

07/31/23

Fayetteville Regional Airport Airline Terminal Improvements - Part 3

400 Airport Road
Fayetteville, North Carolina 28306

FIRST FLOOR FIRE PROTECTION ENLARGED PLANS

DRAWN BY: BMC
REVIEWED BY: ALM
DATE: 7/31/2023
PROJECT NO.: 02230515.A0
NOTES:

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SHEET NUMBER

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GENERAL NOTES:

A. NOTIFY THE OWNER, IN WRITING, AT LEAST SEVEN (7) DAYS IN ADVANCE OF ALL REQUIRED SHUTDOWNS OF ELECTRICAL SERVICE, OR OTHER UTILITIES. UPON WRITTEN RECEIPT OF APPROVAL FROM OWNER, SHUTDOWNS SHALL BE ACCOMPLISHED AT NO ADDITIONAL CONTRACT COST. AT THE END OF EACH SHUT DOWN ALL SERVICES SHALL BE RESTORED.
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D. EXISTING CONDITIONS, I.E., PRESENCE AND LOCATION OF PIPING, SPRINLERS, EQUIPMENT, AND MATERIALS, INDICATED ARE BASED ON INFORMATION OBTAINED FROM AVAILABLE RECORD DRAWINGS AND FIELD SURVEYS AND ARE NOT WARRANTED TO BE COMPLETE OR CORRECT. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL PIPING, SPRINLERS, EQUIPMENT, AND MATERIALS IN THE FIELD PRIOR TO STARTING ALL WORK.

E. EXISTING EQUIPMENT SIZES NOTED ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND ARE NOT WARRANTED TO BE CORRECT. CONTRACTOR SHALL VERIFY ALL SIZES IN THE FIELD IF THEY EFFECT HIS WORK.

F. WHEN EXISTING FIRE PROTECTION WORK IS REMOVED, ALL PIPING, SPRINLERS AND MATERIALS SHALL BE REMOVED TO A POINT BELOW THE FINISHED FLOORS OR BEHIND FINISHED WALLS AND CAPPED. SUCH POINTS SHALL BE FAR ENOUGH BEHIND FINISHED SURFACES TO ALLOW FOR THE INSTALLATION OF THE NORMAL THICKNESS OF FINISHED MATERIAL.

G. EXISTING PIPING & SPRINKLERS NO LONGER REQUIRED TO REMAIN IN SERVICE (SHOWN OR OTHERWISE) SHALL BE DISCONNECTED AND REMOVED BACK TO TO THE MAIN UNLESS OTHERWISE INDICATED OR NOTED ON THE PLANS. REMOVE EXISTING PIPE HANGERS, SUPPORTS, ETC..

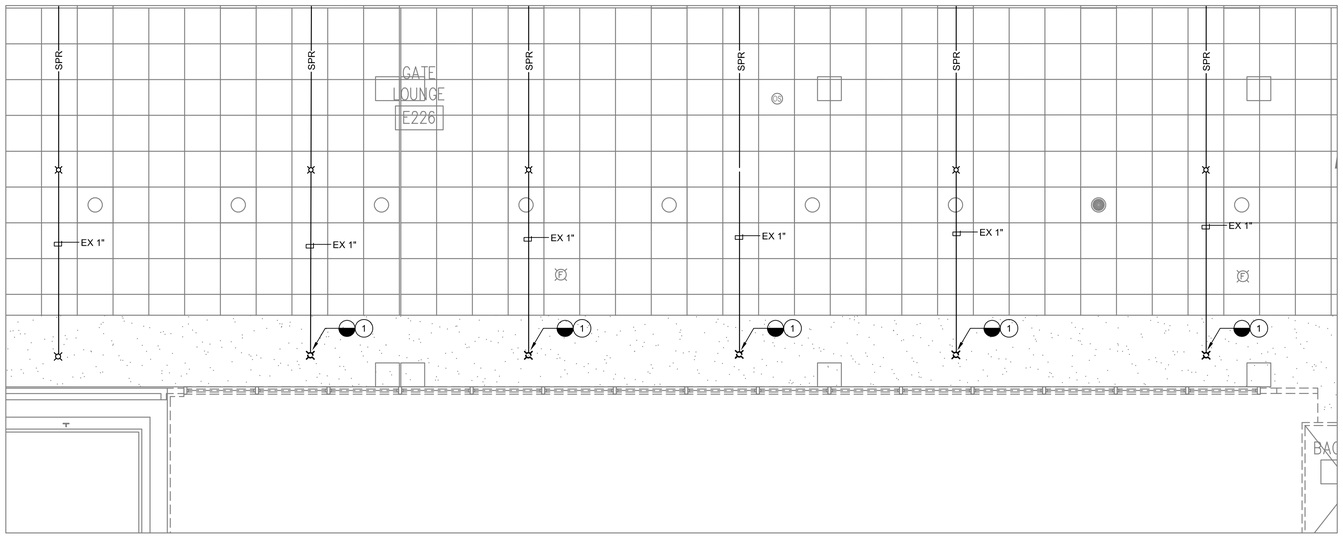
H. EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT. CONDUIT, WIRING, DEVICES, AND MATERIALS AFFECTED BY DEMOLITION OR NEW WORK INSTALLATION AND REQUIRED TO REMAIN IN SERVICE SHALL BE REINSTALLED OR SUPPORTED AS REQUIRED IN ACCORDANCE WITH NEW WORK SPECIFICATION. ALL WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER AND AT NO ADDITIONAL CONTRACT COST.

I. PATCH TO MATCH EXISTING ALL NEW AND EXISTING OPENING AND WALLS, CEILINGS, ROOF, AND FLOOR SURFACES DAMAGED OR CREATED BY DEMOLITION WORK. PATCHING WHERE POSSIBLE SHALL MATCH EXISTING ADJACENT SURFACES AS TO THICKNESS, TEXTURES, MATERIALS, AND COLOR. ALL PATCHING SHALL BE PERFORMED TO THE SATISFACTION OF THE ARCHITECT AND AT NO ADDITIONAL CONTRACT COST.

J. IN GENERAL ALL EQUIPMENT AND MATERIALS SHOWN "LIGHT" IS EXISTING TO REMAIN. ALL EQUIPMENT AND MATERIALS SHOWN "HEAVY AND DASHED" IS EXISTING AND SHALL BE DEMOLISHED.

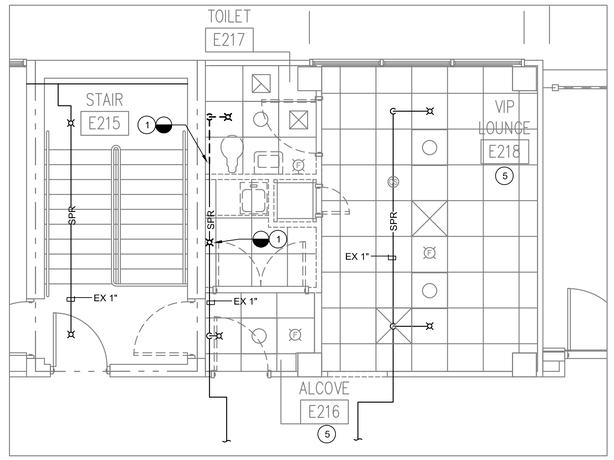
DRAWING NOTES:

1. DISCONNECT AND REMOVE EXISTING PENDENT SPRINKLER FROM EXISTING PIPING.
2. PROVIDE NEW PENDENT SPRINKLER IN THE SAME LOCATION AS THE DEMOLISHED SPRINKLER.
3. EXTEND EXISTING PIPING AS NEEDED TO PROVIDE SPRINKLER COVERAGE IN THE NEW CONCOURSE EXPANSION, IN ACCORDANCE WITH THE 2013 VERSION OF NFPA-13.
4. PROVIDE NEW PENDENT SPRINKLERS IN THE SPACE IN ACCORDANCE WITH THE 2013 VERSION OF NFPA-13.
5. NO CEILING CHANGE IN THIS SPACE. EXISTING SPRINKLERS ARE TO REMAIN.



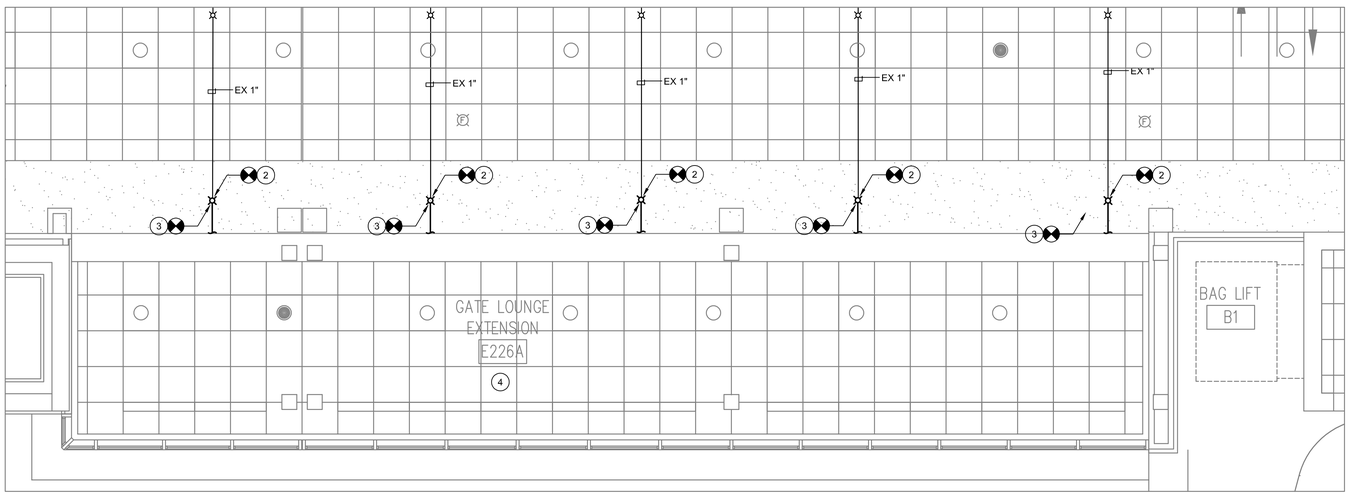
1 FP1.20/FP4.12 **GATE EXTENSION DEMOLITION PLAN - FIRE PROTECTION**

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



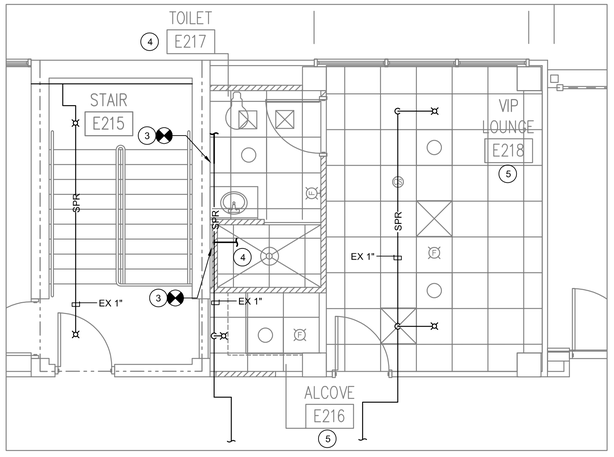
3 FP1.20/FP4.12 **LOUNGE DEMOLITION PLAN - FIRE PROTECTION**

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



2 FP1.20/FP4.12 **GATE EXTENSION NEW WORK PLAN - FIRE PROTECTION**

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



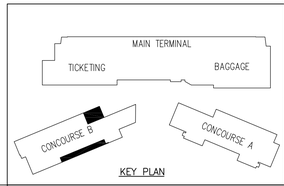
4 FP1.20/FP4.12 **LOUNGE NEW WORK PLAN - FIRE PROTECTION**

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

FIRE RATED WALL LEGEND

1 HOUR FIRE PARTITION

1 HOUR FIRE BARRIER



KEY PLAN

2' 0 2' 4'

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

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 030731 JEFFERY L. MONROE

07/31/23

Fayetteville Regional Airport Airline Terminal Improvements - Part 3

400 Airport Road
Fayetteville, North Carolina 28306

SECOND FLOOR FIRE PROTECTION ENLARGED PLANS

DRAWN BY: RMC
REVIEWED BY: ALM
DATE: 7/31/2023
PROJECT NO.: 02230515.A0
NOTES:

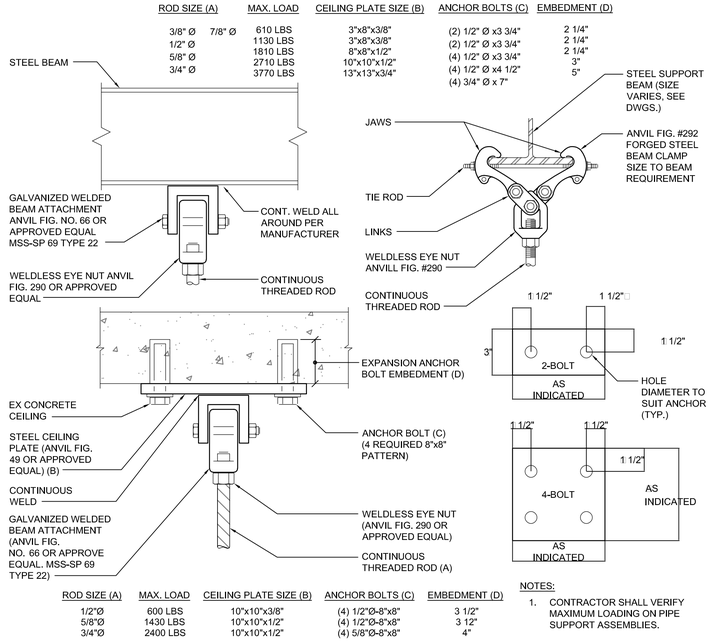
REVISIONS

SHEET NUMBER

FP4.21

-

SCALE: NONE -



ROD SIZE (A)	MAX. LOAD	CEILING PLATE SIZE (B)	ANCHOR BOLTS (C)	EMBEDMENT (D)
1/2"Ø	600 LBS	10"x10"x3/8"	(4) 1/2"Ø-8"x8"	3 1/2"
5/8"Ø	1430 LBS	10"x10"x1/2"	(4) 1/2"Ø-8"x8"	3 12"
3/4"Ø	2400 LBS	10"x10"x1/2"	(4) 5/8"Ø-8"x8"	4"

NOTES:

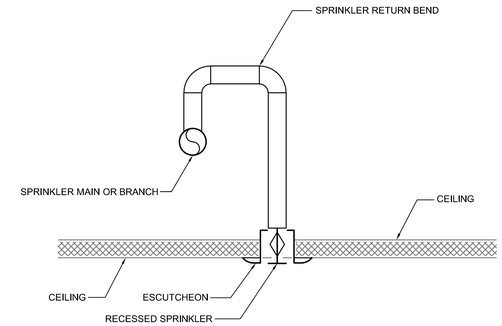
1. CONTRACTOR SHALL VERIFY MAXIMUM LOADING ON PIPE SUPPORT ASSEMBLIES.

DETAIL - BUILDING ATTACHMENTS

SCALE: NONE 2

-

SCALE: NONE -



NOTE:
NO FLEX PIPING PERMITTED

DETAIL - CEILING SPRINKLER

SCALE: NONE 1

-

SCALE: NONE -

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NORTH CAROLINA PROFESSIONAL SEAL 030161 ENGINEER JERRY L. MONTOYE

07/31/23

Fayetteville Regional Airport Airline Terminal Improvements – Part 3

FIRE PROTECTION DETAILS

400 Airport Road
Fayetteville, North Carolina 28306

DRAWN BY: BMC
REVIEWED BY: ALM
DATE: 7/31/2023
PROJECT NO.: 02230515.A0
NOTES:

REVISIONS

SHEET NUMBER
FP5.01

PLUMBING SYMBOLS

PIPING SYSTEMS

SYMBOL	DESCRIPTION
———	DOMESTIC COLD WATER (POTABLE)
— — —	DOMESTIC HOT WATER
— — — —	DOMESTIC HOT WATER RECIRCULATION
———	SANITARY ABOVE FLOOR
——//——//——	SANITARY BELOW FLOOR
- - - - - - - -	VENT

COMPONENTS AND SPECIALTIES

SYMBOL	DESCRIPTION
——|CO	CLEAN OUT (WALL/PIPE)
——○ CO	CLEAN OUT (FLOOR)
——○|HB	COLD WATER INTERIOR HOSE BIBB
⊘	FLOOR DRAIN
⊘	FLOOR DRAIN WITH TRAP PRIMING LINE
——⌀——	SHOCK ARRESTER

EQUIPMENT DESIGNATIONS

DESIGNATION	DESCRIPTION
FD-X	FLOOR DRAIN DESIGNATION
P-X	PLUMBING FIXTURE DESIGNATION

PIPING SYMBOLS

SYMBOL	DESCRIPTION
——○	PIPE DROP
——○ ——⊘	PIPE RISE
——⌋	PIPE CAP
——┴——	BRANCH TAKE OFF
——⊃——	PIPE DROP TEE
——○——	PIPE RISE TEE
——⋈——	SHUTOFF VALVE

GENERAL SYMBOLS

LINETYPE SYMBOLS

DESIGNATION	DESCRIPTION
- - - - - - - -	DEMOLITION WORK
———	EXISTING WORK
———	NEW WORK

REFERENCE SYMBOLS

DESIGNATION	DESCRIPTION
XX / X | X	FLOOR PLAN NUMBER PARTIAL FLOOR PLAN NUMBER ELEVATION = LETTER DETAIL = NUMBER
	SHEET NUMBER ON WHICH THE PARTIAL PLAN, ELEVATION OR DETAIL IS DRAWN
	SHEET NUMBER WHERE PARTIAL PLAN, ELEVATION OR DETAIL IS TAKEN FROM
N	NORTH ARROW
	POINT OF CONNECTION TO EXISTING
	POINT OF DISCONNECTION

GENERAL ABBREVIATIONS

NOTE: THIS IS A STANDARD ABBREVIATION LIST. SOME ABBREVIATIONS MAY NOT APPEAR ON THE ACCOMPANYING DRAWINGS.

A	COMPRESSED AIR	FOT	FUEL OIL TRANSFER	OED	OPEN ENDED DUCT
AAV	AUTOMATIC AIR VENT	FOV	FUEL OIL VENT	OS&Y	OUTSIDE STEM AND YOKE
ACV	AUTOMATIC CONTROL VALVE	FPM	FEET PER MINUTE		
AD	ACCESS DOOR, AREA DRAIN	FPS	FEET PER SECOND	P&ID	PROCESS AND INSTRUMENTATION DIAGRAM
AF	ANTIFREEZE	FS	FLOW SWITCH	PA	PLANT AIR
AFF	ABOVE FINISHED FLOOR	FT	FOOT, FEET	PC	PUMPED CONDENSATE
AR	ARGON GAS	FWR	FEED WATER RETURN	PCR	PUMPED CONDENSATE RECIRCULATION
ATC	AUTOMATIC TEMPERATURE CONTROL	FWS	FEED WATER SUPPLY	PCHR	PRIMARY CHILLED WATER RETURN
				PCHS	PRIMARY CHILLED WATER SUPPLY
BAS	BUILDING AUTOMATION SYSTEM	G	NATURAL GAS	PCWR	PROCESS COOLING WATER RETURN
BBD	BOILER BLOWDOWN	GHR	GLYCOL HEATING RETURN	PCWS	PROCESS COOLING WATER SUPPLY
BCWR	BEARING COOLING WATER RETURN	GHS	GLYCOL HEATING SUPPLY	PD	PRESSURE DROP, PUMP DISCHARGE
BCWS	BEARING COOLING WATER SUPPLY	GPH	GALLONS PER HOUR	PGR	PROCESS GLYCOL WATER RETURN
BDD	BACKDRAFT DAMPER	GPM	GALLONS PER MINUTE	PGS	PROCESS GLYCOL WATER SUPPLY
BFP	BACKFLOW PREVENTER	GR	AUTOMOTIVE LUBRICATION PIPING	PH	PHASE
BHP	BRAKE HORSEPOWER			PHR	PRIMARY HEATING RETURN
BMS	BUILDING MANAGEMENT SYSTEM	H	HIGH	PHS	PRIMARY HEATING SUPPLY
BO	BLOW OFF	HB	HOSE BIBB	PIV	POST INDICATING VALVE
BTU	BRITISH THERMAL UNIT	HED	HOSE END DRAIN VALVE	PPH	POUNDS PER HOUR
BTUH	BRITISH THERMAL UNIT PER HOUR	HP	HORSEPOWER	PRV	PRESSURE REDUCING VALVE
		HPR	HIGH PRESSURE STEAM RETURN	PSI	POUNDS PER SQUARE INCH
°C	DEGREE(S) CELSIUS	HPS	HIGH PRESSURE STEAM SUPPLY	PSIG	POUNDS PER SQUARE INCH GAUGE
CA	CONTROL AIR	HR	HEATING WATER RETURN		
CBD	CONTINUOUS BLOWDOWN	HRR	HEAT RECOVERY RETURN	RA	RETURN AIR, RELIEF AIR
CC	CAMPUS CONDENSATE	HRS	HEAT RECOVERY SUPPLY	RD	REFRIGERANT DISCHARGE
CCMS	CENTRAL CONTROL AND MONITORING SYSTEM	HS	HEATING WATER SUPPLY	RH	RELATIVE HUMIDITY
CD	CONDENSATE DRAIN	HT	HEIGHT	RHR	REHEAT WATER RETURN
CF	CHEMICAL FEED	HTHR	HIGH TEMPERATURE HEATING WATER RETURN	RHS	REHEAT WATER SUPPLY
CFM	CUBIC FEET PER MINUTE	HTHS	HIGH TEMPERATURE HEATING WATER SUPPLY	RL	REFRIGERANT LIQUID
CHR	CHILLED WATER RETURN	HW	HOT WATER	ROR	REVERSE OSMOSIS WATER RETURN
CHS	CHILLED WATER SUPPLY	HWR	HOT WATER RECIRCULATION	ROS	REVERSE OSMOSIS WATER SUPPLY
CO	CLEANOUT	HZ	HERTZ	RPM	REVOLUTIONS PER MINUTE
CO2	CARBON DIOXIDE			RS	REFRIGERANT SUCTION
CS	CLEAN STEAM	IA	INSTRUMENT AIR	RV	RELIEF VENT, REFRIGERANT VENT
CW	COLD WATER, CITY WATER	ICW	INDUSTRIAL COLD WATER	RX	REMOVE EXISTING
CWR	CONDENSER WATER RETURN	IHW	INDUSTRIAL HOT WATER		
CWS	CONDENSER WATER SUPPLY	IHR	INDUSTRIAL HOT WATER RECIRCULATION	SA	SUPPLY AIR
		IN	INCH, INCHES	SAN	SANITARY, SOIL, WASTE
D	DEEP, DRAIN WATER	INV EL	INVERT ELEVATION	SCHR	SECONDARY CHILLED WATER RETURN
DB	DECIBEL, DRY BULB			SCHS	SECONDARY CHILLED WATER SUPPLY
DDC	DIRECT DIGITAL CONTROL	KW	KILOWATTS	SD	STORM DRAIN, SMOKE DETECTOR
DHR	DISTRIBUTION HEATING WATER RETURN			SF	SQUARE FOOT
DHS	DISTRIBUTION HEATING WATER SUPPLY	L	LONG, LENGTH	SHR	SECONDARY HEATING WATER RETURN
DIR	DEIONIZED WATER RETURN	LA	LABORATORY AIR	SHS	SECONDARY HEATING WATER SUPPLY
DIS	DEIONIZED WATER SUPPLY	LAT	LEAVING AIR TEMPERATURE	SL	SOUND LINING
DL	DOOR LOUVER	LBS	POUNDS	SP	STATIC PRESSURE
DN	DOWN	LBS/HR	POUNDS PER HOUR	SPR	SPRINKLER LINE
DSP	DRY SPRINKLER PIPE	LN	LIQUID NITROGEN	SS	STAINLESS STEEL
DTR	DUAL TEMPERATURE RETURN	LP	LIQUID PROPANE	SQ FT	SQUARE FOOT
DTS	DUAL TEMPERATURE SUPPLY	LPG	LIQUID PETROLEUM GAS	SW	SOFT WATER
DW	DISTILLED WATER	LPR	LOW PRESSURE STEAM RETURN		
		LPS	LOW PRESSURE STEAM SUPPLY	△T	TEMPERATURE DIFFERENCE
EA	EXHAUST AIR	LV	LABORATORY VENT, LABORATORY VACUUM	TS	TAMPER SWITCH
EAT	ENTERING AIR TEMPERATURE	LW	LABORATORY WASTE	TSP	TOTAL STATIC PRESSURE
EJ	EXPANSION JOINT	LWT	LEAVING WATER TEMPERATURE	TWR	TEMPERED WATER RETURN
EMS	ENERGY MANAGEMENT SYSTEM			TWS	TEMPERED WATER SUPPLY
ESP	EXTERNAL STATIC PRESSURE	MA	MEDICAL AIR	TW	TREATED WATER
ETC	ETCETERA	MAV	MANUAL AIR VENT	TYP	TYPICAL
EVAC	GAS EVACUATION	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR		
EWT	ENTERING WATER TEMPERATURE	MCC	MOTOR CONTROL CENTER	UCD	UNDERCUT DOOR
EX	EXISTING	MO	MOTOR OIL PIPING	UL	UNDERWRITERS LABORATORIES
		MOD	MOTOR OPERATED DAMPER		
°F	DEGREE(S) FAHRENHEIT	MPR	MEDIUM PRESSURE STEAM RETURN	V	VACUUM, VOLTS
F	FIRE LINE	MPS	MEDIUM PRESSURE STEAM SUPPLY	VD	VOLUME DAMPER
FC	FLEXIBLE CONNECTION	MV	MEDICAL VACUUM	VFD	VARIABLE FREQUENCY DRIVE
FD	FIRE DAMPER, FOUNDATION DRAIN			VPD	VACUUM PUMP DISCHARGE
FDV	FIRE DEPARTMENT VALVE	N	NITROGEN	VSD	VARIABLE SPEED DRIVE
FF	FINISHED FLOOR	NA	NOT APPLICABLE	VTR	VENT THROUGH ROOF
FFE	FINISHED FLOOR ELEVATION	NC	NOISE CRITERIA, NORMALLY CLOSED		
FIN/FT	FINS PER FEET	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	W	WATTS, WIDE
FIN/INCH	FINS PER INCH	NO	NORMALLY OPEN, NITROUS OXIDE	WB	WET BULB
FM	FLOWMETER	NPSH	NET POSITIVE SUCTION HEAD	WC	WATER COLUMN
FMF	FLOWMETER FITTING			WG	WATER GAUGE
FOF	FUEL OIL FILL	O	OXYGEN	WH	WALL HYDRANT
FOO	FUEL OIL OVERFLOW	OA	OUTSIDE AIR	WWF	WELDED WIRE FABRIC
FOR	FUEL OIL RETURN	OD	OVERFLOW DRAIN	WWM	WELDED WIRE MESH
FOS	FUEL OIL SUPPLY				

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NORTH CAROLINA PROFESSIONAL SEAL ENGINEER JEFFERY L. MONROE
07/31/23

Fayetteville Regional Airport Airline Terminal
400 Airport Road
Fayetteville, North Carolina 28306

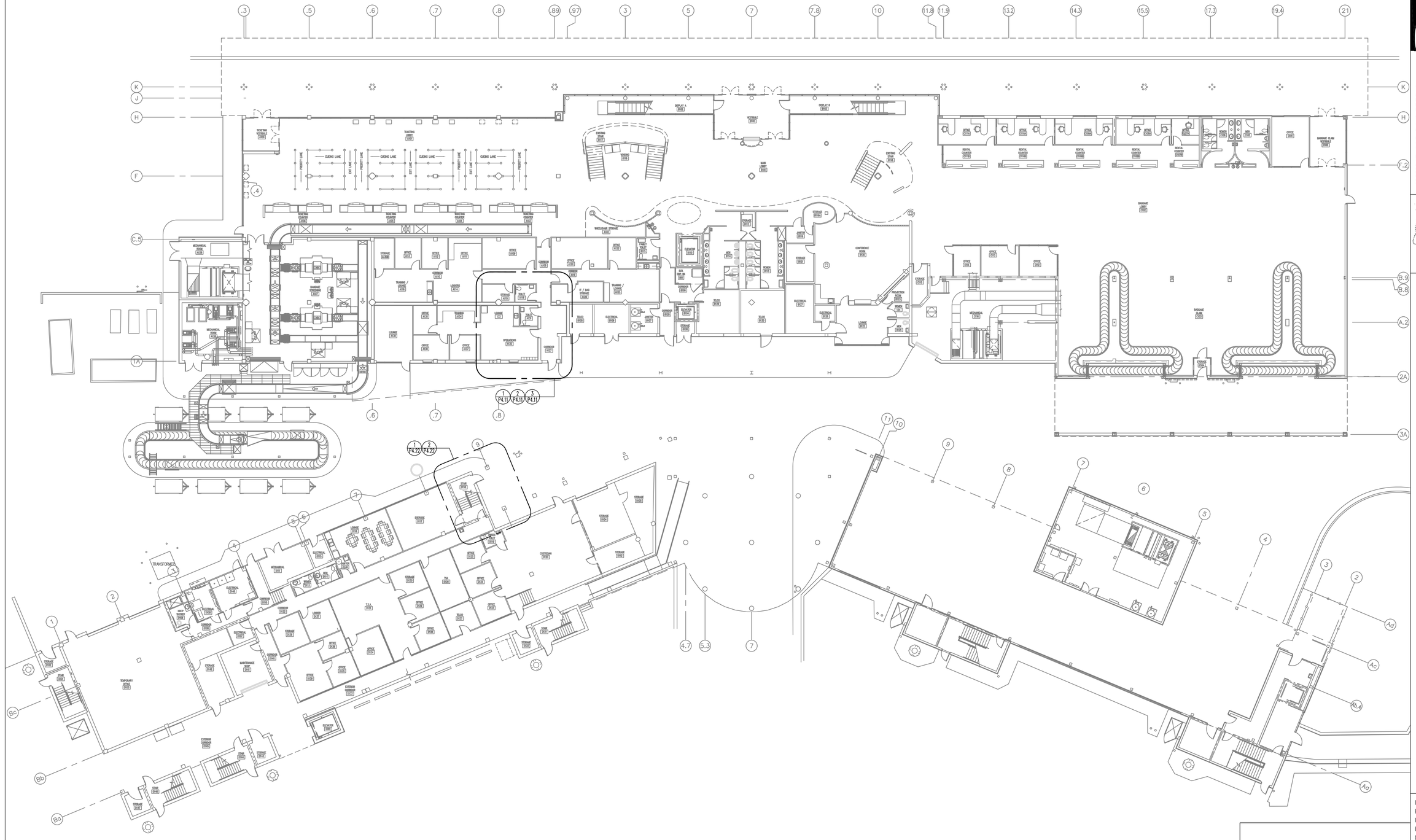
Terminal Improvements - Part 3

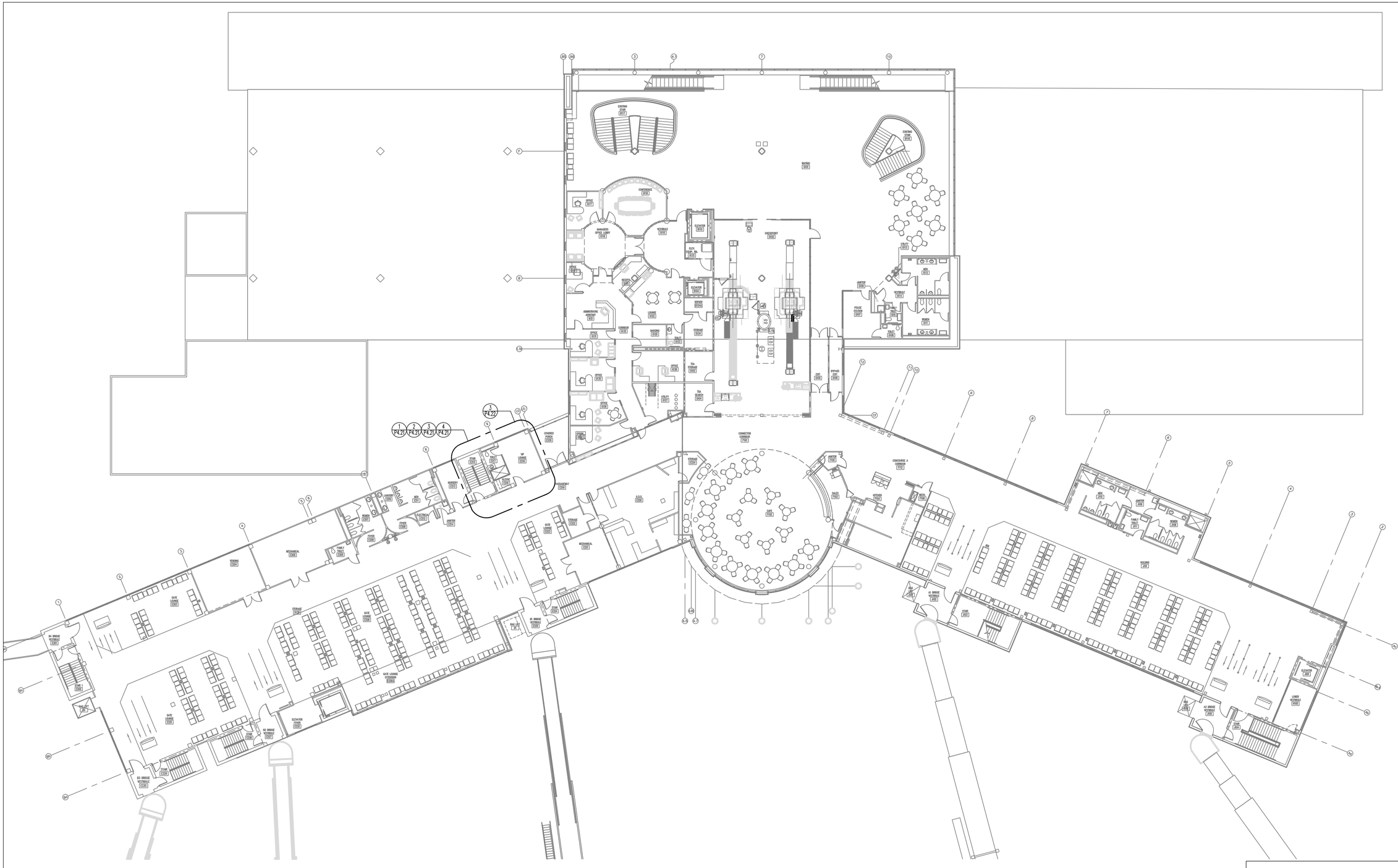
PLUMBING LEGEND, SYMBOLS AND ABBREVIATIONS

DRAWN BY: BMC
REVIEWED BY: ALM
DATE: 7/31/2023
PROJECT NO.: 02230515.A0
NOTES:

REVISIONS

SHEET NUMBER
P0.01


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B.9
B.8
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3A
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TICKETING VESTIBULE A000
TICKETING LOBBY A001
CUEING LANE
PRIORITY LANE
CIT. LANE
DISPLAY A B002
DISPLAY B B003
VESTIBULE B000
CASHIER B004
VESTIBULE B005
BAR B007
CASHIER B006
OFFICE C010
RENTAL COUNTER C011
RENTAL COUNTER C012
RENTAL COUNTER C013
RENTAL COUNTER C014
RENTAL COUNTER C015
POWER C016
MEN C017
WOMEN C018
OFFICE C019
BAGGAGE CLAIM VESTIBULE C000
BAGGAGE CLAIM A100
BAGGAGE A000
MECHANICAL ROOM A102
BAGGAGE SCREENING A007
BAGGAGE MAKE-UP A006
STORAGE A036
OFFICE A035
OFFICE A034
OFFICE A033
OFFICE A032
OFFICE A031
CORRIDOR A030
WHEELCHAIR STORAGE A105
OFFICE A104
TRAINING / LOUNGE A103
T / BAG STORAGE A108
TRAINING / LOUNGE A002
FAMILY TOILET A010
ELEVATOR A009
MEN A011
WOMEN A012
JANITOR B016
STORAGE B015
CONFERENCE ROOM B100
STORAGE B014
TELCO B030
ELECTRICAL B029
ELECTRICAL B028
LOUNGE B101
STORAGE B018
MECHANICAL B019
OFFICE C020
OFFICE C021
OFFICE C022
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NORTH CAROLINA PROFESSIONAL SEAL 039437 ENGINEER JEFFERY L. MONROE

07/31/23

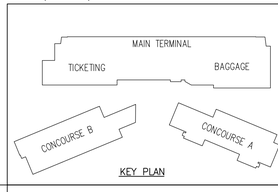
Fayetteville Regional Airport Airline Terminal Improvements - Part 3

400 Airport Road
Fayetteville, North Carolina 28306

SECOND FLOOR OVERALL PLAN

DRAWN BY: BMC
REVIEWED BY: ALM
DATE: 7/31/2023
PROJECT NO.: 02230515.A0
NOTES:

REVISIONS

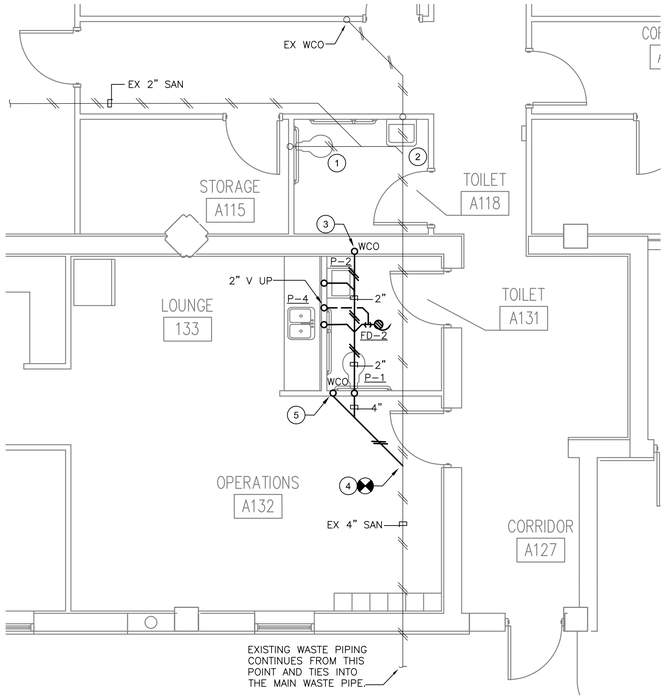


KEY PLAN

FIRE RATED WALL LEGEND
1 HOUR FIRE PARTITION
1 HOUR FIRE BARRIER

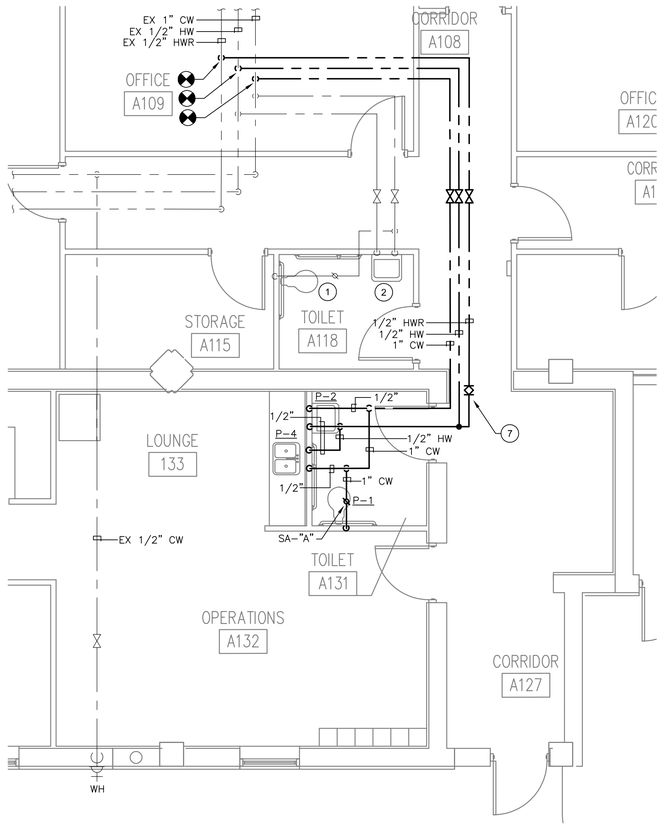
8' 4' 0 8' 16'
SCALE: 1/16" = 1'-0"

SHEET NUMBER
P1.20



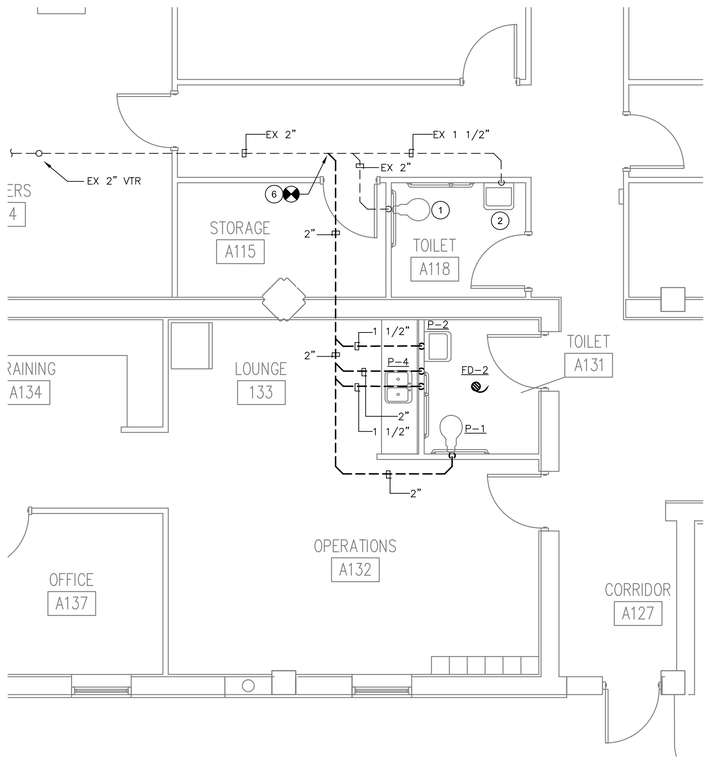
AIRLINE OFFICE NEW WORK PLAN - WASTE & VENT

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



AIRLINE OFFICE NEW WORK PLAN - DOMESTIC WATER

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



AIRLINE OFFICE NEW WORK PLAN - VENT

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

GENERAL NOTES:

A. NOTIFY THE OWNER, IN WRITING, AT LEAST SEVEN (7) DAYS IN ADVANCE OF ALL REQUIRED SHUTDOWNS OF PLUMBING SERVICES, OR OTHER UTILITIES. UPON WRITTEN RECEIPT OF APPROVAL FROM OWNER, SHUTDOWNS SHALL BE ACCOMPLISHED AT NO ADDITIONAL CONTRACT COST. AT THE END OF EACH SHUT DOWN ALL SERVICES SHALL BE RESTORED.

B. WHEN WORKING IN AND AROUND THE EXISTING BUILDING, EXTREME CARE SHALL BE EXERCISED WITH REGARD TO PROTECTION OF THE EXISTING STRUCTURE, FIRE PROTECTION, PLUMBING, MECHANICAL AND ELECTRICAL SERVICES WHICH WILL REMAIN. REPAIR, REPLACE, OR RESTORE TO THE SATISFACTION OF THE OWNER ALL EXISTING WORK DAMAGED IN THE PERFORMANCE OF DEMOLITION AND/OR NEW YORK

C. ALL EXISTING FIXTURES, PIPING, AND MATERIALS NOT REQUIRED FOR RE-USE OR RE-INSTALLATION (SHOWN OR OTHERWISE) SHALL BE REMOVED. ALL EXISTING MATERIALS AND EQUIPMENT WHICH ARE REMOVED AND ARE DESIRED BY THE OWNER, OR ARE INDICATED TO THE PREMISES BY THE CONTRACTOR WHERE DIRECTED BY THE ENGINEER. ALL OTHER MATERIALS AND EQUIPMENT WHICH ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED BY THE CONTRACTOR FROM THE PREMISES.

D. EXISTING CONDITIONS, I.E., PRESENCE AND LOCATION OF FIXTURES, PIPING, EQUIPMENT, AND MATERIALS, INDICATED ARE BASED ON INFORMATION OBTAINED FROM AVAILABLE RECORD DRAWINGS AND FIELD SURVEYS AND ARE NOT WARRANTED TO BE COMPLETE OR CORRECT. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL CONDUITS, EQUIPMENT, AND MATERIALS IN THE FIELD PRIOR TO STARTING ALL WORK.

E. EXISTING PIPE SIZES NOTED ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND ARE NOT WARRANTED TO BE CORRECT. CONTRACTOR SHALL VERIFY ALL SIZES IN THE FIELD IF THEY EFFECT HIS WORK.

F. WHEN EXISTING PLUMBING WORK IS REMOVED, ALL PIPING AND MATERIALS SHALL BE REMOVED TO A POINT BELOW THE FINISHED FLOORS OR BEHIND FINISHED WALLS AND CAPPED. SUCH POINTS SHALL BE FAR ENOUGH BEHIND FINISHED SURFACES TO ALLOW FOR THE INSTALLATION OF THE NORMAL THICKNESS OF FINISHED MATERIAL.

G. EXISTING FIXTURES & PIPING NO LONGER REQUIRED TO REMAIN IN SERVICE (SHOWN OR OTHERWISE) SHALL BE DISCONNECTED AND REMOVED BACK THE MAIN UNLESS OTHERWISE INDICATED OR NOTED ON THE PLANS. REMOVE EXISTING PIPE HANGERS, SUPPORTS, ETC..

H. EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT. CONDUIT, WIRING, DEVICES, AND MATERIALS AFFECTED BY DEMOLITION OR NEW WORK INSTALLATION AND REQUIRED TO REMAIN IN SERVICE SHALL BE REINSTALLED OR SUPPORTED AS REQUIRED IN ACCORDANCE WITH NEW WORK SPECIFICATION. ALL WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER AND AT NO ADDITIONAL CONTRACT COST.

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J. IN GENERAL ALL EQUIPMENT AND MATERIALS SHOWN "LIGHT" IS EXISTING TO REMAIN. ALL EQUIPMENT AND MATERIALS SHOWN "HEAVY AND HATCHED" IS EXISTING AND SHALL BE DEMOLISHED.

K. ALL WASTE AND VENT PIPING SHOWN IN VIEW P4.11/1 IS BELOW GRADE.

L. EXISTING STORM PIPING IS SHOWN FOR COORDINATION.

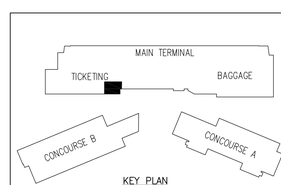
DRAWING NOTES:

1. WATER CLOSET IS EXISTING TO REMAIN.
2. LAVATORY IS EXISTING TO REMAIN.
3. EXTEND 2" WASTE PIPING UP AND PROVIDE WALL CLEANOUT.
4. CONNECT NEW 4" WASTE PIPING TO EXISTING 4" WASTE PIPING.
5. EXTEND 4" WASTE PIPING UP AND PROVIDE WALL CLEANOUT.
6. CONNECT NEW 2" VENT BRANCH PIPING TO EXISTING 2" VENT MAIN.
7. 1/2" BALANCING VALVE. SE TO 0.5 GPM.

FIRE RATED WALL LEGEND

1 HOUR FIRE PARTITION

1 HOUR FIRE BARRIER



KEY PLAN

4' 0 4' 8'

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

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NORTH CAROLINA PROFESSIONAL SEAL 032911 ENGINEER JEFFERY L. MONROE

07/31/23

Fayetteville Regional Airport Airline Terminal Improvements - Part 3

400 Airport Road
Fayetteville, North Carolina 28306

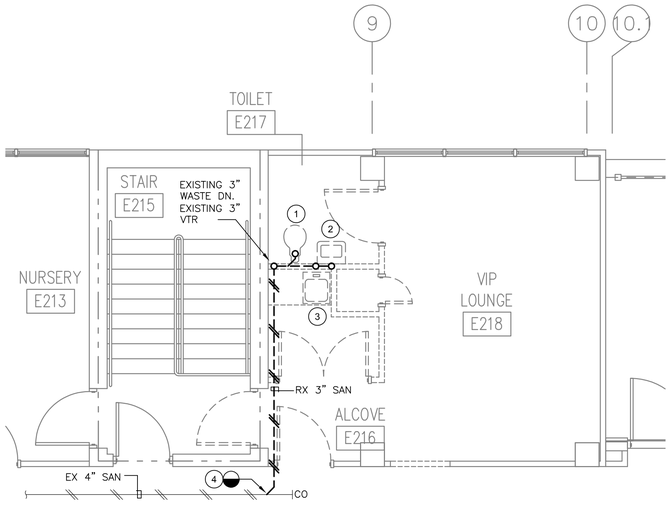
FIRST FLOOR ENLARGED PLUMBING PLANS

DRAWN BY: BMC
REVIEWED BY: ALM
DATE: 7/31/2023
PROJECT NO.: 02230515.A0
NOTES:

REVISIONS

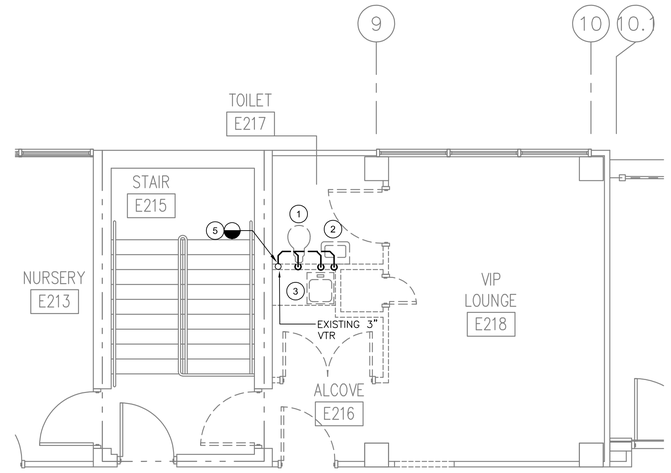
SHEET NUMBER

P4.11



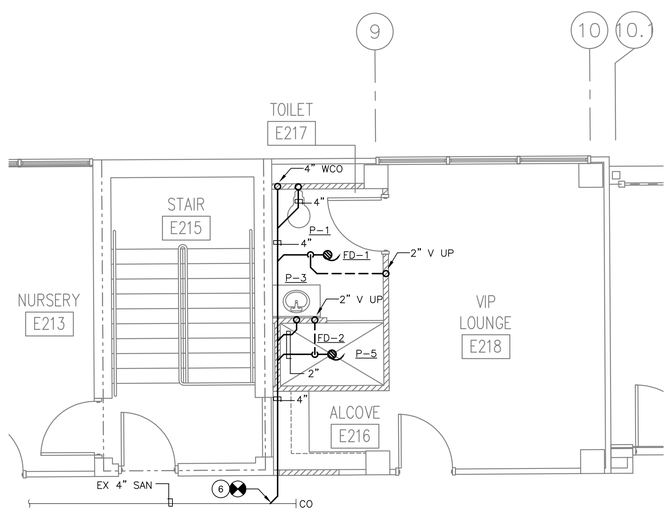
1 P1.20 P4.21 **LOUNGE DEMOLITION PLAN - WASTE**

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



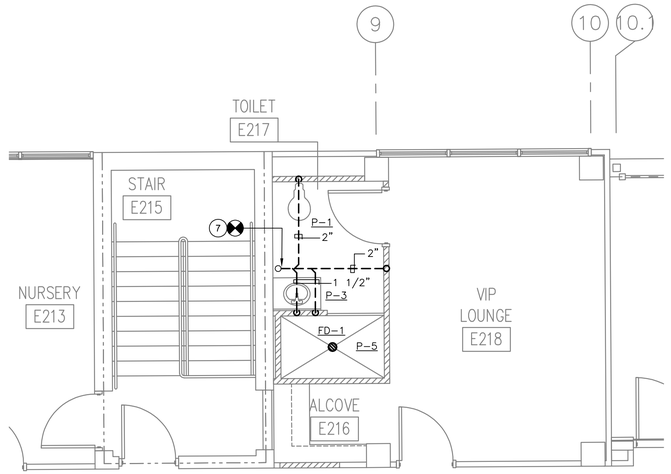
2 P1.20 P4.21 **LOUNGE DEMOLITION PLAN - VENT**

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



3 P1.20 P4.21 **LOUNGE NEW WORK PLAN - WASTE**

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



4 P1.20 P4.21 **LOUNGE NEW WORK PLAN - VENT**

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

GENERAL NOTES:

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J. IN GENERAL ALL EQUIPMENT AND MATERIALS SHOWN "LIGHT" IS EXISTING TO REMAIN. ALL EQUIPMENT AND MATERIALS SHOWN "HEAVY AND HATCHED" IS EXISTING AND SHALL BE DEMOLISHED.

K. EXISTING AND NEW WASTE PIPING SHOWN IS LOCATED IN THE CEILING SPACE OF THE LEVEL BELOW.

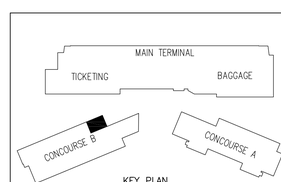
DRAWING NOTES:

1. REMOVE EXISTING WATER CLOSET AND ALL ASSOCIATED WASTE & VENT PIPING BACK TO THE POINT OF DISCONNECTION SHOWN.
2. REMOVE EXISTING LAVATORY AND ALL ASSOCIATED WASTE & VENT PIPING BACK TO THE POINT OF DISCONNECTION SHOWN.
3. REMOVE EXISTING SINK AND ALL ASSOCIATED WASTE & VENT PIPING BACK TO THE POINT OF DISCONNECTION SHOWN.
4. REMOVE ALL EXISTING 3" WASTE PIPING BACK TO THE EXISTING 4" MAIN WASTE PIPE.
5. REMOVE ALL VENT PIPING BACK TO THE POINT OF DISCONNECTION SHOW. MAINTAIN EXISTING 3" VENT THROUGH ROOF FOR NEW VENT CONNECTION.
6. CONNECT NEW 4" WASTE PIPE TO EXISTING 4" WASTE PIPE.
7. CONNECT NEW 2" VENT PIPING TO THE EXISTING 3" VTR.
8. 2" VENT DOWN TO FLOOR DRAIN WASTE PIPING.
9. PROVIDE FLOOR DRAIN WITH WITH TRAP PRIMER. CONNECT TRAP PRIMER TO NEAREST FLUSH VALVE.

FIRE RATED WALL LEGEND

1 HOUR FIRE PARTITION

1 HOUR FIRE BARRIER



KEY PLAN

4' 0 4' 8'

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

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL JEFFERY L. MONROE

07/31/23

Fayetteville Regional Airport Airline Terminal Improvements - Part 3

CONCOURSE-B WASTE & VENT ENLARGED PLANS

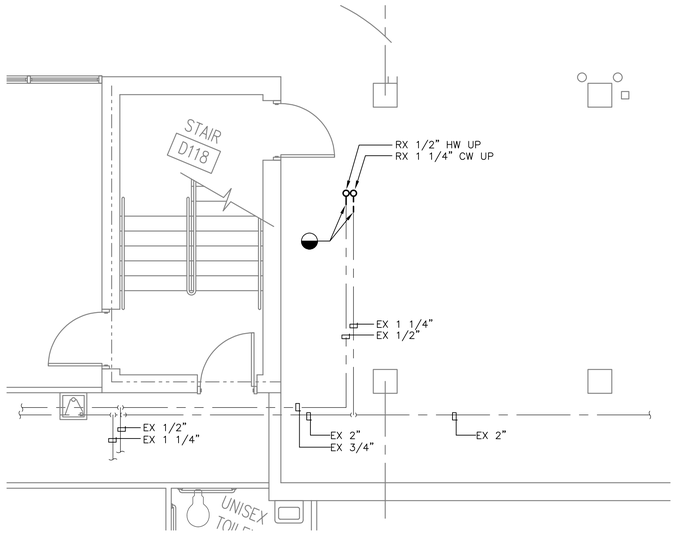
400 Airport Road
Fayetteville, North Carolina 28306

DRAWN BY: BMC
REVIEWED BY: ALM
DATE: 7/31/2023
PROJECT NO.: 02230515.A0
NOTES:

REVISIONS

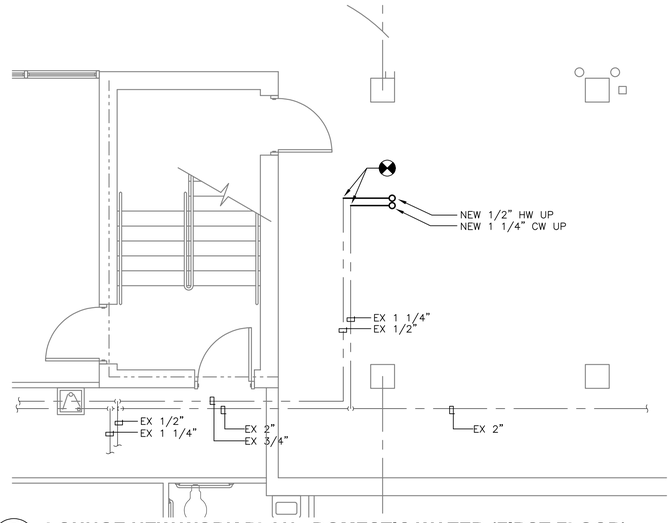
SHEET NUMBER

P4.21



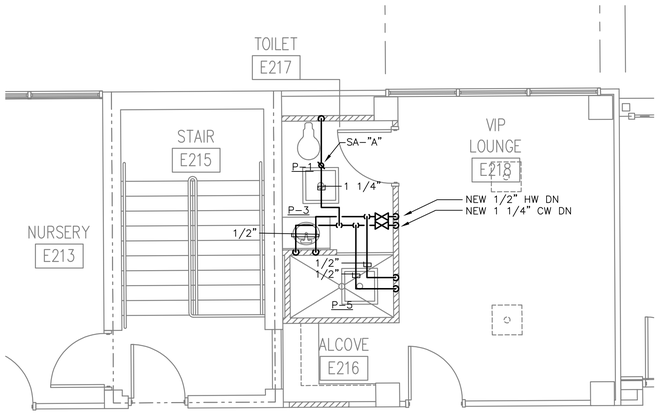
1 P1.10|P4.21 **LOUNGE DEMOLITION PLAN - DOMESTIC WATER (FIRST FLOOR)**

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



2 P1.20|P4.21 **LOUNGE NEW WORK PLAN - DOMESTIC WATER (FIRST FLOOR)**

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



3 P1.20|P4.21 **LOUNGE NEW WORK PLAN - DOMESTIC WATER (SECOND FLOOR)**

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

GENERAL NOTES:

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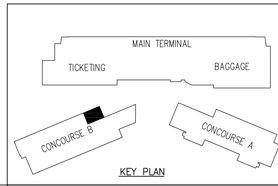
DRAWING NOTES:

1. REMOVE EXISTING DOMESTIC WATER PIPING FROM THE EXISTING FIXTURE ABOVE, BACK TO THE POINT OF DISCONNECTION SHOWN.
2. CONNECT NEW DOMESTIC WATER PIPING AT THE POINT OF CONNECTION SHOWN AND ROUTE UP TO THE FLOOR ABOVE.

FIRE RATED WALL LEGEND

1 HOUR FIRE PARTITION

1 HOUR FIRE BARRIER



KEY PLAN

4' 0 4' 8'

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

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL JEFFERY L. MONROE

07/31/23

Fayetteville Regional Airport Airline Terminal Improvements - Part 3

400 Airport Road
Fayetteville, North Carolina 28306

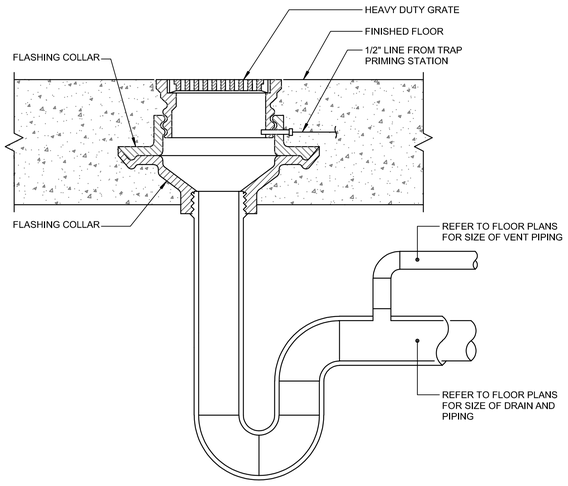
CONCOURSE-B DOMESTIC WATER ENLARGED PLANS

DRAWN BY: BMC
REVIEWED BY: ALM
DATE: 7/31/2023
PROJECT NO.: 02230515.A0
NOTES:

REVISIONS

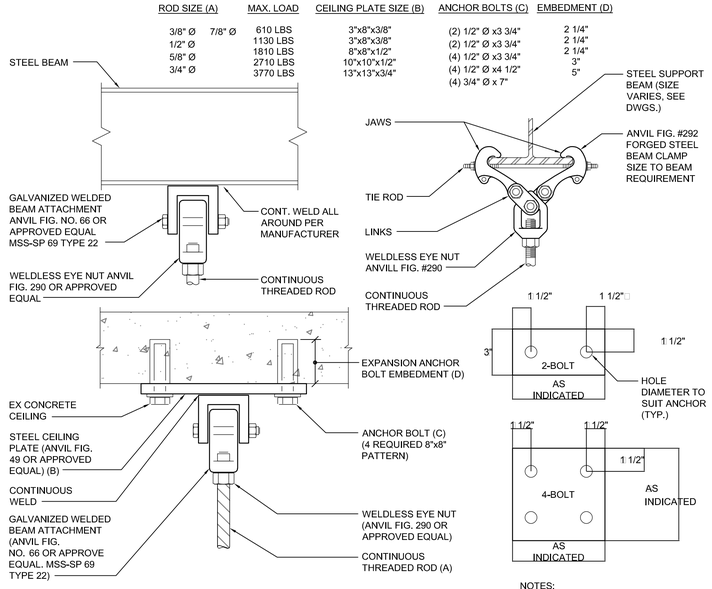
SHEET NUMBER

P4.22



DETAIL - FLOOR DRAIN

SCALE: NONE — 3



ROD SIZE (A)	MAX. LOAD	CEILING PLATE SIZE (B)	ANCHOR BOLTS (C)	EMBEDMENT (D)
3/8" Ø 1/2" Ø 5/8" Ø 3/4" Ø 7/8" Ø	610 LBS 1130 LBS 1810 LBS 2710 LBS 3770 LBS	3"x8"x3/8" 3"x8"x3/8" 8"x8"x1/2" 10"x10"x1/2" 13"x13"x3/4"	(2) 1/2" Ø x3 3/4" (2) 1/2" Ø x3 3/4" (4) 1/2" Ø x3 3/4" (4) 1/2" Ø x4 1/2" (4) 3/4" Ø x 7"	2 1/4" 2 1/4" 2 1/4" 3" 5"

ROD SIZE (A)	MAX. LOAD	CEILING PLATE SIZE (B)	ANCHOR BOLTS (C)	EMBEDMENT (D)
1/2"Ø 5/8"Ø 3/4"Ø	600 LBS 1430 LBS 2400 LBS	10"x10"x3/8" 10"x10"x1/2" 10"x10"x1/2"	(4) 1/2"Ø-8"x8" (4) 1/2"Ø-8"x8" (4) 5/8"Ø-8"x8"	3 1/2" 3 12" 4"

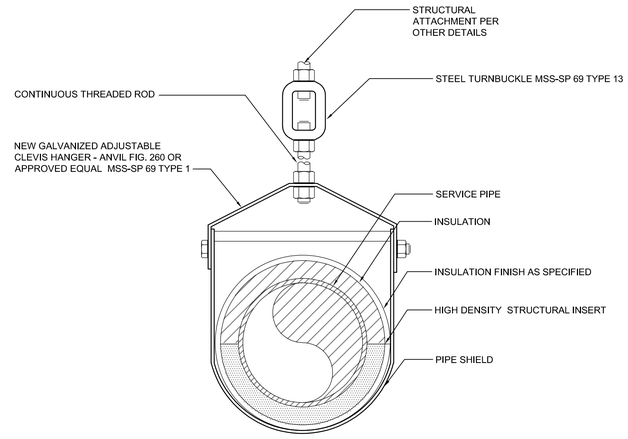
NOTES:

1. CONTRACTOR SHALL VERIFY MAXIMUM LOADING ON PIPE SUPPORT ASSEMBLIES.

DETAIL - BUILDING ATTACHMENTS

SCALE: NONE — 2

SCALE: NONE — -



NOTES:

1. FOR NON INSULATED PIPES, OUTSIDE PIPE WALL SHALL REST DIRECTLY ON INNER WALL OF CLEVIS HANGER.

DETAIL - CLEVIS HANGER

SCALE: NONE — 1

SCALE: NONE — -

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049161 JEFFERY L. MONROE
07/31/23

Fayetteville Regional Airport Airline Terminal Improvements – Part 3

PLUMBING DETAILS

400 Airport Road
Fayetteville, North Carolina 28306

DRAWN BY: BMC
REVIEWED BY: ALM
DATE: 7/31/2023
PROJECT NO.: 02230515.A0
NOTES:

REVISIONS

SHEET NUMBER
P5.01

PLUMBING FIXTURE SCHEDULE

DESIGNATION	FIXTURE	FLOW GPM	ROUGH-IN CONNECTION				FIXTURE UNITS			REMARKS	NOTES
			CW	HW	SAN	VENT	CW	HW	SAN		
P-1	WATER CLOSET	1.28 (GPF)	1"	–	4"	2"	6	–	3	WALL MOUNTED, MANUAL FLUSH VALVE, ADA	1, 6
P-2	LAVATORY	0.5	1/2"	1/2"	2"	1 1/2"	0.5	0.5	1	WALL MOUNTED. BATTERY, AUTOMATIC FAUCET.	2, 6
P-3	LAVATORY	0.5	1/2"	1/2"	2"	1 1/2"	0.5	0.5	1	LAVATORY PROVIDED WITH CASEWORK. BATTERY, AUTOMATIC FAUCET.	3, 6
P-4	BREAK ROOM SINK	1.5	1/2"	1/2"	2"	1 1/2"	1	1	2	STAINLESS STEEL, TWO COMPARTMENT SINK	4, 6
P-5	SHOWER	1.5	1/2"	1/2"	2"	1 1/2"	1	1	2	ADA, BUILT IN CERAMIC TILE BASE BY ARCHITECT	5, 6

NOTES:

1. BASIS OF DESIGN:
   WATER CLOSET: KOHLER, K-4325
   FLUSH VALVE: SLOAN, 111-1.28 DFB
2. BASIS OF DESIGN:
   LAVATORY: PROVIDED WITH CASEWORK
   FAUCET: SLOAN, SF-2350
3. BASIS OF DESIGN:
   LAVATORY: KOHLER, K-2005
   FAUCET: SLOAN, SF-2350
4. BASIS OF DESIGN:
   SINK: ELKAY, LR3322
   FAUCET: DELTA, 400-DST
5. BASIS OF DESIGN:
   SHOWER: BUILT IN CERAMIC TILE BASE BY ARCHIECT
   FAUCET: SYMMONS SAFETYMIX, 1-117-FS
6. SEE SPEC SECTION 224000 FOR EQUIVALENT MANUFACTURERS

SHOCK ARRESTOR SCHEDULE

DESIGNATION	FIXTURE UNITS SERVED
SA-"A"	1-11
SA-"B"	12-32

FLOOR DRAIN SCHEDULE

DESIGNATION	TYPE	BASIS OF DESIGN
FD-1	3" DRAIN, ROUND GRATE	ZURN - Z415B
FD-2	2" DRAIN, ROUND GRATE	ZURN - Z415-BZ1

NOTES:

1. SEE SPEC SECTION 221319 FOR EQUIVALENT MANUFACTURERS

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040787 JEFFERY L. MONROE

07/31/23

Fayetteville Regional Airport Airline Terminal Improvements - Part 3

400 Airport Road
Fayetteville, North Carolina 28306

PLUMBING SCHEDULES

DRAWN BY: BMC
REVIEWED BY: ALM
DATE: 7/31/2023
PROJECT NO.: 02230515.A0
NOTES:

REVISIONS

SHEET NUMBER
P7.01

MECHANICAL LEGEND

PIPING SYMBOLS

SYMBOL	DESCRIPTION
CHS	CHILLED WATER SUPPLY
CHR	CHILLED WATER RETURN
CD	CONDENSATE DRAIN
HR	HEATING WATER RETURN
HS	HEATING WATER SUPPLY

EQUIPMENT DESIGNATIONS

SYMBOL	DESCRIPTION
AHU-X	AIR HANDLING UNIT DESIGNATION
EF-X	EXHAUST FAN DESIGNATION
OAL-X	OUTSIDE AIR LOUVER DESIGNATION

DUCTWORK SYMBOLS

SYMBOL	DESCRIPTION
T	THERMOSTAT
	AIR FLOW
CFM	TRANSFER AIR FLOW (INDICATE CFM)
	SUPPLY AIR DIFFUSER
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
FD	FIRE DAMPER
VD	VOLUME DAMPER
SD	SMOKE DAMPER
SD	SMOKE DETECTOR
	FLEXIBLE CONNECTION
	HORIZONTAL ACCESS DOOR
	VERTICAL ACCESS DOOR
	ELBOW WITH DOUBLE THICKNESS TURNING VANES
	RECTANGULAR BRANCH TAKE-OFF
	BELL MOUTH BRANCH TAKE-OFF
	ROUND BRANCH TAKE-OFF
	ROUND DUCT DROP OFF BOTTOM
	DUCT TRANSITION
	SQUARE TO ROUND TRANSITION
UP/DN	DUCTWORK CHANGE IN ELEVATION (UP OR DOWN)
	SUPPLY/OUTSIDE AIR DUCT RISER
	RETURN AIR DUCT RISER
	EXHAUST/RELIEF AIR DUCT RISER
	ROUND DUCT RISER (SMALLER THAN 12")
	ROUND DUCT RISER (12" AND LARGER)
	FLEXIBLE DUCT
MAINTANENCE ACCESS AREA	TERMINAL UNIT WITH REHEAT COIL
X	SUPPLY AIR VOLUME TERMINAL UNIT IDENTIFIER
X AIR DEVICE TYPE XX CFM	AIR DEVICE IDENTIFIER

PIPING SYMBOLS

SYMBOL	DESCRIPTION
	PIPE DROP
	PIPE RISE
	PIPE CAP
	BRANCH TAKE OFF
	PIPE DROP TEE
	PIPE RISE TEE
	SHUTOFF VALVE
	TWO WAY CONTROL VALVE

GENERAL SYMBOLS

LINETYPE SYMBOLS

DESIGNATION	DESCRIPTION
	DEMOLITION WORK
	EXISTING WORK
	NEW WORK

REFERENCE SYMBOLS

DESIGNATION	DESCRIPTION
XX / X X	FLOOR PLAN NUMBER PARTIAL FLOOR PLAN NUMBER ELEVATION = LETTER DETAIL = NUMBER
	SHEET NUMBER ON WHICH THE PARTIAL PLAN, ELEVATION OR DETAIL IS DRAWN
	SHEET NUMBER WHERE PARTIAL PLAN, ELEVATION OR DETAIL IS TAKEN FROM
NORTH	NORTH ARROW
	POINT OF CONNECTION TO EXISTING
	POINT OF DISCONNECTION

GENERAL ABBREVIATIONS

NOTE: THIS IS A STANDARD ABBREVIATION LIST. SOME ABBREVIATIONS MAY NOT APPEAR ON THE ACCOMPANYING DRAWINGS.

A	COMPRESSED AIR	FOT	FUEL OIL TRANSFER	OED	OPEN ENDED DUCT
AAV	AUTOMATIC AIR VENT	FOV	FUEL OIL VENT	OS&Y	OUTSIDE STEM AND YOKE
ACV	AUTOMATIC CONTROL VALVE	FPM	FEET PER MINUTE		
AD	ACCESS DOOR, AREA DRAIN	FPS	FEET PER SECOND	P&ID	PROCESS AND INSTRUMENTATION DIAGRAM
AF	ANTIFREEZE	FS	FLOW SWITCH	PA	PLANT AIR
AFF	ABOVE FINISHED FLOOR	FT	FOOT, FEET	PC	PUMPED CONDENSATE
AR	ARGON GAS	FWR	FEED WATER RETURN	PCR	PUMPED CONDENSATE RECIRCULATION
ATC	AUTOMATIC TEMPERATURE CONTROL	FWS	FEED WATER SUPPLY	PCHR	PRIMARY CHILLED WATER RETURN
				PCHS	PRIMARY CHILLED WATER SUPPLY
BAS	BUILDING AUTOMATION SYSTEM	G	NATURAL GAS	PCWR	PROCESS COOLING WATER RETURN
BBD	BOILER BLOWDOWN	GHR	GLYCOL HEATING RETURN	PCWS	PROCESS COOLING WATER SUPPLY
BCWR	BEARING COOLING WATER RETURN	GHS	GLYCOL HEATING SUPPLY	PD	PRESSURE DROP, PUMP DISCHARGE
BCWS	BEARING COOLING WATER SUPPLY	GPH	GALLONS PER HOUR	PGR	PROCESS GLYCOL WATER RETURN
BDD	BACKDRAFT DAMPER	GPM	GALLONS PER MINUTE	PGS	PROCESS GLYCOL WATER SUPPLY
BFP	BACKFLOW PREVENTER	GR	AUTOMOTIVE LUBRICATION PIPING	PH	PHASE
BHP	BRAKE HORSEPOWER			PHR	PRIMARY HEATING RETURN
BMS	BUILDING MANAGEMENT SYSTEM	H	HIGH	PHS	PRIMARY HEATING SUPPLY
BO	BLOW OFF	HB	HOSE BIBB	PIV	POST INDICATING VALVE
BTU	BRITISH THERMAL UNIT	HED	HOSE END DRAIN VALVE	PPH	POUNDS PER HOUR
BTUH	BRITISH THERMAL UNIT PER HOUR	HP	HORSEPOWER	PRV	PRESSURE REDUCING VALVE
		HPR	HIGH PRESSURE STEAM RETURN	PSI	POUNDS PER SQUARE INCH
°C	DEGREE(S) CELSIUS	HPS	HIGH PRESSURE STEAM SUPPLY	PSIG	POUNDS PER SQUARE INCH GAUGE
CA	CONTROL AIR	HR	HEATING WATER RETURN		
CBD	CONTINUOUS BLOWDOWN	HRR	HEAT RECOVERY RETURN	RA	RETURN AIR, RELIEF AIR
CC	CAMPUS CONDENSATE	HRS	HEAT RECOVERY SUPPLY	RD	REFRIGERANT DISCHARGE
CCMS	CENTRAL CONTROL AND MONITORING SYSTEM	HS	HEATING WATER SUPPLY	RH	RELATIVE HUMIDITY
CD	CONDENSATE DRAIN	HT	HEIGHT	RHR	REHEAT WATER RETURN
CF	CHEMICAL FEED	HTHR	HIGH TEMPERATURE HEATING WATER RETURN	RHS	REHEAT WATER SUPPLY
CFM	CUBIC FEET PER MINUTE	HTHS	HIGH TEMPERATURE HEATING WATER SUPPLY	RL	REFRIGERANT LIQUID
CHR	CHILLED WATER RETURN	HW	HOT WATER	ROR	REVERSE OSMOSIS WATER RETURN
CHS	CHILLED WATER SUPPLY	HWR	HOT WATER RECIRCULATION	ROS	REVERSE OSMOSIS WATER SUPPLY
CO	CLEANOUT	HZ	HERTZ	RPM	REVOLUTIONS PER MINUTE
CO2	CARBON DIOXIDE			RS	REFRIGERANT SUCTION
CS	CLEAN STEAM	IA	INSTRUMENT AIR	RV	RELIEF VENT, REFRIGERANT VENT
CW	COLD WATER, CITY WATER	ICW	INDUSTRIAL COLD WATER	RX	REMOVE EXISTING
CWR	CONDENSER WATER RETURN	IHW	INDUSTRIAL HOT WATER		
CWS	CONDENSER WATER SUPPLY	IHR	INDUSTRIAL HOT WATER RECIRCULATION	SA	SUPPLY AIR
		IN	INCH, INCHES	SAN	SANITARY, SOIL, WASTE
D	DEEP, DRAIN WATER	INV EL	INVERT ELEVATION	SCHR	SECONDARY CHILLED WATER RETURN
DB	DECIBEL, DRY BULB			SCHS	SECONDARY CHILLED WATER SUPPLY
DDC	DIRECT DIGITAL CONTROL	KW	KILOWATTS	SD	STORM DRAIN, SMOKE DETECTOR
DHR	DISTRIBUTION HEATING WATER RETURN			SF	SQUARE FOOT
DHS	DISTRIBUTION HEATING WATER SUPPLY	L	LONG, LENGTH	SHR	SECONDARY HEATING WATER RETURN
DIR	DEIONIZED WATER RETURN	LA	LABORATORY AIR	SHS	SECONDARY HEATING WATER SUPPLY
DIS	DEIONIZED WATER SUPPLY	LAT	LEAVING AIR TEMPERATURE	SL	SOUND LINING
DL	DOOR LOUVER	LBS	POUNDS	SP	STATIC PRESSURE
DN	DOWN	LBS/HR	POUNDS PER HOUR	SPR	SPRINKLER LINE
DSP	DRY SPRINKLER PIPE	LN	LIQUID NITROGEN	SS	STAINLESS STEEL
DTR	DUAL TEMPERATURE RETURN	LP	LIQUID PROPANE	SQ FT	SQUARE FOOT
DTS	DUAL TEMPERATURE SUPPLY	LPG	LIQUID PETROLEUM GAS	SW	SOFT WATER
DW	DISTILLED WATER	LPR	LOW PRESSURE STEAM RETURN		
		LPS	LOW PRESSURE STEAM SUPPLY	△T	TEMPERATURE DIFFERENCE
EA	EXHAUST AIR	LV	LABORATORY VENT, LABORATORY VACUUM	TS	TAMPER SWITCH
EAT	ENTERING AIR TEMPERATURE	LW	LABORATORY WASTE	TSP	TOTAL STATIC PRESSURE
EJ	EXPANSION JOINT	LWT	LEAVING WATER TEMPERATURE	TWR	TEMPERED WATER RETURN
EMS	ENERGY MANAGEMENT SYSTEM			TWS	TEMPERED WATER SUPPLY
ESP	EXTERNAL STATIC PRESSURE	MA	MEDICAL AIR	TW	TREATED WATER
ETC	ETCETERA	MAV	MANUAL AIR VENT	TYP	TYPICAL
EVAC	GAS EVACUATION	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR		
EWT	ENTERING WATER TEMPERATURE	MCC	MOTOR CONTROL CENTER	UCD	UNDERCUT DOOR
EX	EXISTING	MO	MOTOR OIL PIPING	UL	UNDERWRITERS LABORATORIES
		MOD	MOTOR OPERATED DAMPER		
°F	DEGREE(S) FAHRENHEIT	MPR	MEDIUM PRESSURE STEAM RETURN	V	VACUUM, VOLTS
F	FIRE LINE	MPS	MEDIUM PRESSURE STEAM SUPPLY	VD	VOLUME DAMPER
FC	FLEXIBLE CONNECTION	MV	MEDICAL VACUUM	VFD	VARIABLE FREQUENCY DRIVE
FD	FIRE DAMPER, FOUNDATION DRAIN			VPD	VACUUM PUMP DISCHARGE
FDV	FIRE DEPARTMENT VALVE	N	NITROGEN	VSD	VARIABLE SPEED DRIVE
FF	FINISHED FLOOR	NA	NOT APPLICABLE	VTR	VENT THROUGH ROOF
FFE	FINISHED FLOOR ELEVATION	NC	NOISE CRITERIA, NORMALLY CLOSED		
FIN/FT	FINS PER FEET	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	W	WATTS, WIDE
FIN/INCH	FINS PER INCH	NO	NORMALLY OPEN, NITROUS OXIDE	WB	WET BULB
FM	FLOWMETER	NPSH	NET POSITIVE SUCTION HEAD	WC	WATER COLUMN
FMF	FLOWMETER FITTING			WG	WATER GAUGE
FOF	FUEL OIL FILL	O	OXYGEN	WH	WALL HYDRANT
FOO	FUEL OIL OVERFLOW	OA	OUTSIDE AIR	WWF	WELDED WIRE FABRIC
FOR	FUEL OIL RETURN	OD	OVERFLOW DRAIN	WWM	WELDED WIRE MESH
FOS	FUEL OIL SUPPLY				

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NORTH CAROLINA PROFESSIONAL SEAL 036722 ENGINEER JEFFERY L. MONROE

07/31/23

Fayetteville Regional Airport Airline Terminal Improvements - Part 3

400 Airport Road
Fayetteville, North Carolina 28306

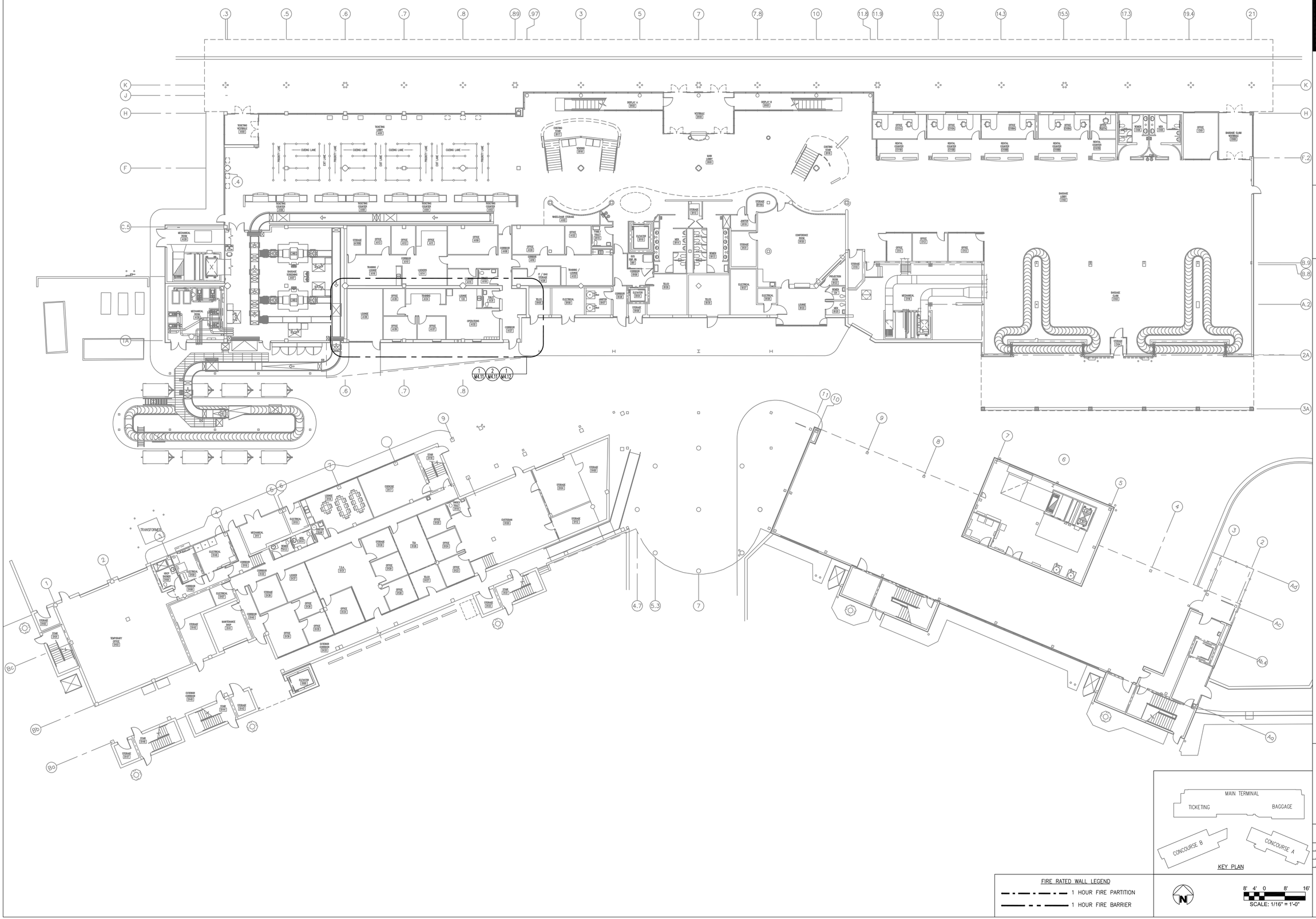
MECHANICAL LEGEND, SYMBOLS AND ABBREVIATIONS

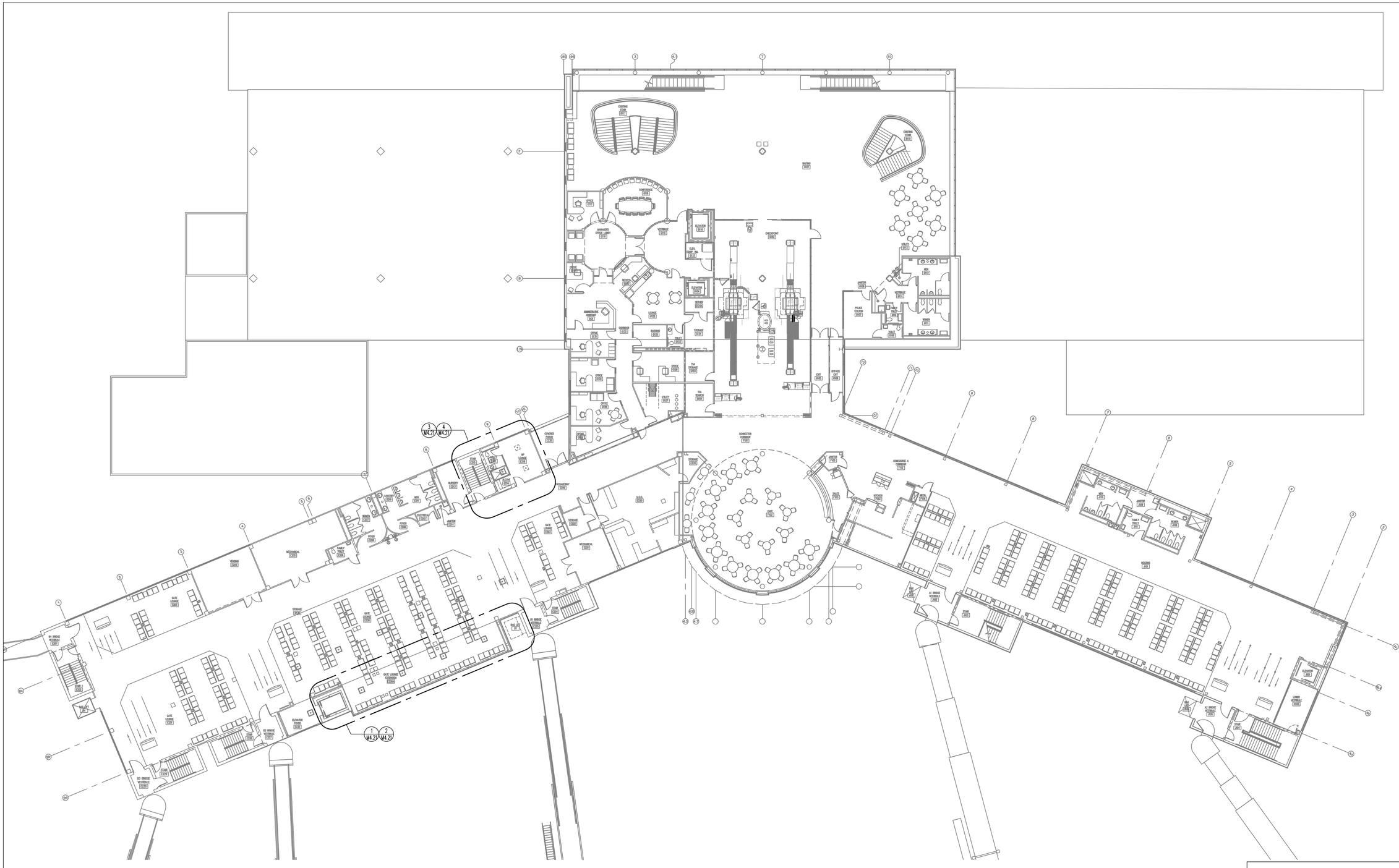
DRAWN BY: BMC
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DATE: 7/31/2023
PROJECT NO.: 02230515.A0
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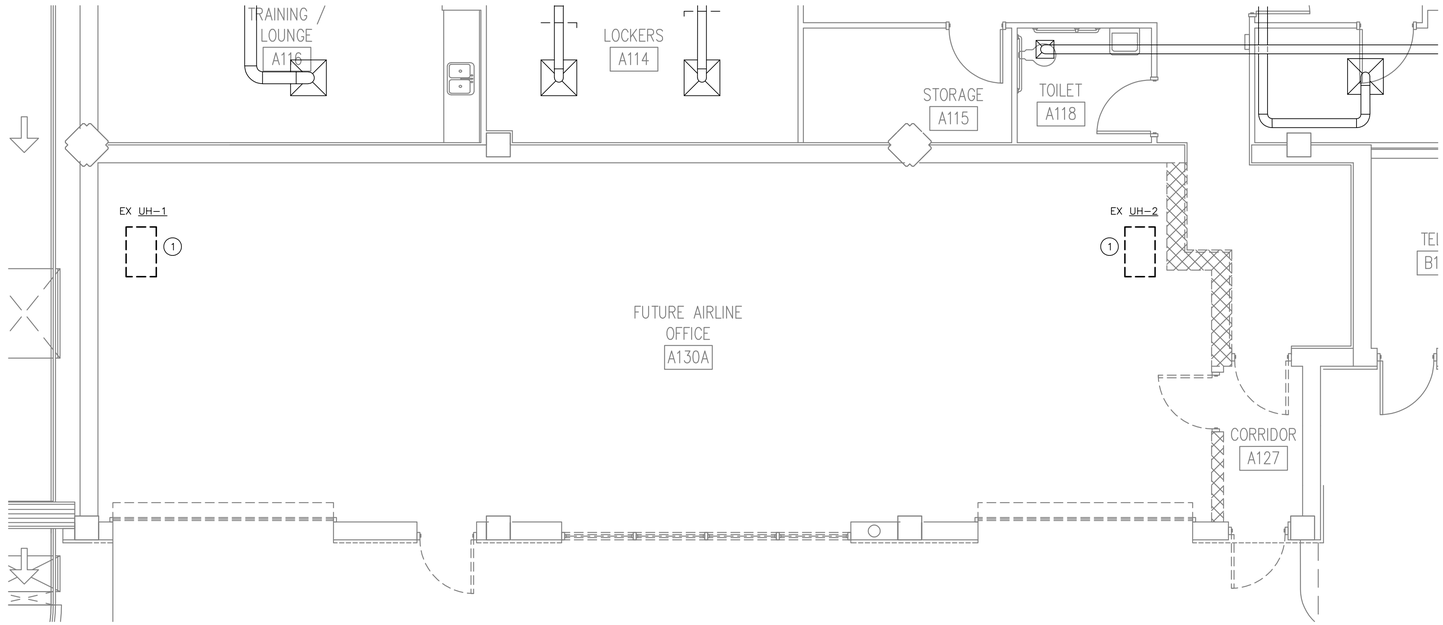
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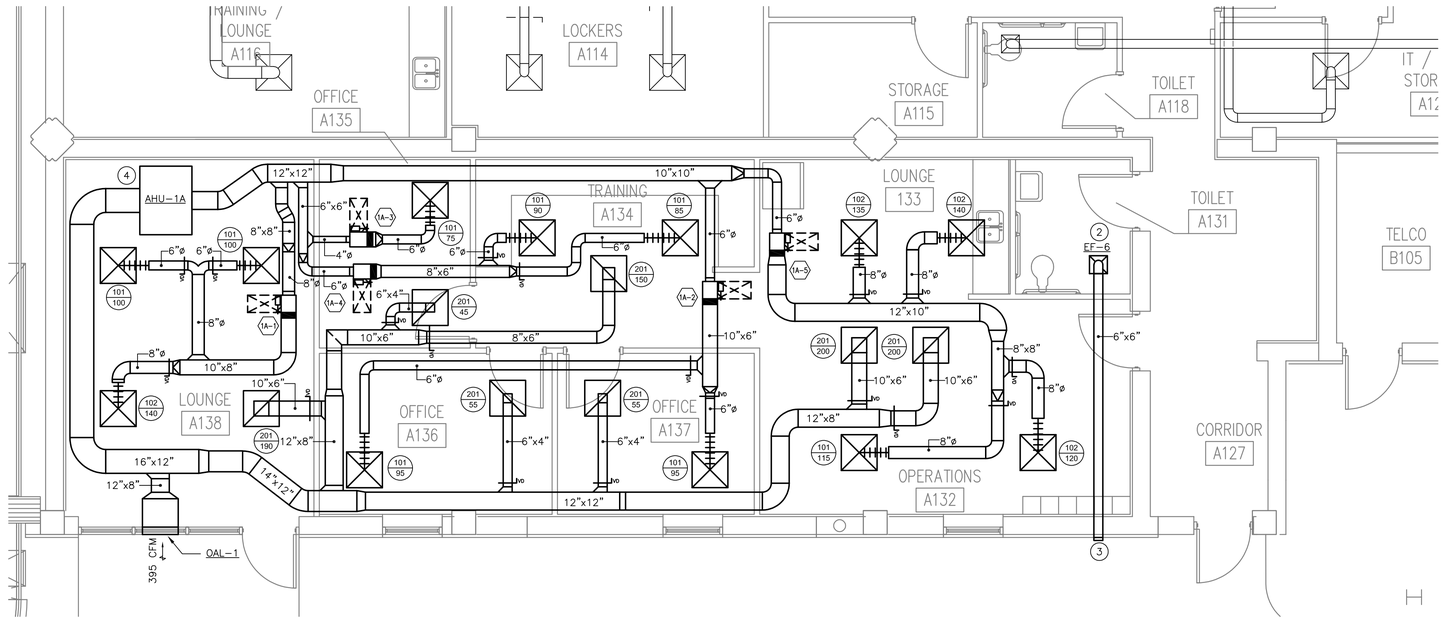

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B.D
4.7
5.3
TICKETING VESTIBULE A000
TICKETING LOBBY A001
CUEING LANE
PRIORITY LANE
CIT. LANE
DISPLAY A B002
DISPLAY B B003
VESTIBULE B000
CASHIER B004
VISTA B005
BAR B006
CASHIER B007
STAIR B008
OFFICE C010
OFFICE C011
OFFICE C012
OFFICE C013
OFFICE C014
OFFICE C015
OFFICE C016
OFFICE C017
OFFICE C018
RENTAL COUNTER C019
RENTAL COUNTER C020
RENTAL COUNTER C021
RENTAL COUNTER C022
RENTAL COUNTER C023
POWER C024
MEN C025
WOMEN C026
OFFICE C027
BAGGAGE CLAIM VESTIBULE C028
BAGGAGE CLAIM C029
BAGGAGE LOBBY A100
MECHANICAL ROOM A102
BAGGAGE SCREENING A103
BAGGAGE MAKEUP A104
MECHANICAL ROOM A105
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STORAGE A107
OFFICE A108
OFFICE A109
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TRAINING / LOUNGE A115
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STORAGE B018
STORAGE B019
TELCO B020
ELECTRICAL B021
ELECTRICAL B022
CONFERENCE ROOM B023
HOUSEKEEPING B024
WOMEN B025
MEN B026
STORAGE B027
LOUNGE B028
STORAGE B029
OFFICE B030
OFFICE B031
OFFICE B032
OFFICE B033
OFFICE B034
STORAGE B035
MECHANICAL B036
BAGGAGE B037
1 M4.11
2 M4.11
1 M4.12
TRANSFORMER 1
ELECTRICAL B048
ADCP BOOTH B049
ELECTRICAL B050
ELECTRICAL B051
ELECTRICAL B052
CORRIDOR B053
CORRIDOR B054
CORRIDOR B055
MECHANICAL B056
MECHANICAL B057
WOMEN B058
MEN B059
LOUNGE B060
CORRIDOR B061
STORAGE B062
STAIR B063
T.S.A. B064
OFFICE B065
OFFICE B066
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OFFICE B068
TELCO C069
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OFFICE B089
OFFICE


EXISTING EGR
EXISTING EGR
CONCOURSE
MANAGERS OFFICE LOBBY
VESTIBULE
ELEVATOR
ELEV. MACH. RM.
CHECKPOINT
ADMINISTRATIVE ASSISTANT
OFFICE
CONFERENCE
LOUNGE
BAGGING
TOILET
JANITOR
TSA STORAGE
TSA BREAK
UTILITY
OFFICE
OFFICE
OFFICE



1 M1.10M4.11 **AIRLINE OFFICE DEMOLITION PLAN - MECHANICAL**

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



2 M1.10M4.11 **AIRLINE OFFICE NEW WORK PLAN - DUCTWORK**

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

GENERAL NOTES:

A. NOTIFY THE OWNER, IN WRITING, AT LEAST SEVEN (7) DAYS IN ADVANCE OF ALL REQUIRED SHUTDOWNS OF ELECTRICAL SERVICE, OR OTHER UTILITIES. UPON WRITTEN RECEIPT OF APPROVAL FROM OWNER, SHUTDOWNS SHALL BE ACCOMPLISHED AT NO ADDITIONAL CONTRACT COST. AT THE END OF EACH SHUT DOWN ALL SERVICES SHALL BE RESTORED.

B. WHEN WORKING IN AND AROUND THE EXISTING BUILDING, EXTREME CARE SHALL BE EXERCISED WITH REGARD TO PROTECTION OF THE EXISTING STRUCTURE, FIRE PROTECTION, PLUMBING, MECHANICAL AND ELECTRICAL SERVICES WHICH WILL REMAIN. REPAIR, REPLACE, OR RESTORE TO THE SATISFACTION OF THE OWNER ALL EXISTING WORK DAMAGED IN THE PERFORMANCE OF DEMOLITION AND/OR NEW YORK

C. ALL EXISTING DUCTWORK, EQUIPMENT, PIPING, AND MATERIALS NOT REQUIRED FOR RE-USE OR RE-INSTALLATION (SHOWN OR OTHERWISE) SHALL BE REMOVED. ALL EXISTING MATERIALS AND EQUIPMENT WHICH ARE REMOVED AND ARE DESIRED BY THE OWNER, OR ARE INDICATED TO THE PREMISES BY THE CONTRACTOR WHERE DIRECTED BY THE ENGINEER. ALL OTHER MATERIALS AND EQUIPMENT WHICH ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED BY THE CONTRACTOR FROM THE PREMISES.

D. EXISTING CONDITIONS, I.E., PRESENCE AND LOCATION OF DUCTWORK, DIFFUSERS, PIPING, EQUIPMENT, AND MATERIALS, INDICATED ARE BASED ON INFORMATION OBTAINED FROM AVAILABLE RECORD DRAWINGS AND FIELD SURVEYS AND ARE NOT WARRANTED TO BE COMPLETE OR CORRECT. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL CONDUITS, EQUIPMENT, AND MATERIALS IN THE FIELD PRIOR TO STARTING ALL WORK.

E. EXISTING EQUIPMENT SIZES NOTED ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND ARE NOT WARRANTED TO BE CORRECT. CONTRACTOR SHALL VERIFY ALL SIZES IN THE FIELD IF THEY EFFECT HIS WORK.

F. WHEN EXISTING MECHANICAL WORK IS REMOVED, ALL DUCTWORK, PIPING AND MATERIALS SHALL BE REMOVED TO A POINT BELOW THE FINISHED FLOORS OR BEHIND FINISHED WALLS AND CAPPED. SUCH POINTS SHALL BE FAR ENOUGH BEHIND FINISHED SURFACES TO ALLOW FOR THE INSTALLATION OF THE NORMAL THICKNESS OF FINISHED MATERIAL.

G. EXISTING DUCTWORK & PIPING NO LONGER REQUIRED TO REMAIN IN SERVICE (SHOWN OR OTHERWISE) SHALL BE DISCONNECTED AND REMOVED BACK THE MAIN UNLESS OTHERWISE INDICATED OR NOTED ON THE PLANS. REMOVE EXISTING PIPE HANGERS, SUPPORTS, ETC..

H. EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT. CONDUIT, WIRING, DEVICES, AND MATERIALS AFFECTED BY DEMOLITION OR NEW WORK INSTALLATION AND REQUIRED TO REMAIN IN SERVICE SHALL BE REINSTALLED OR SUPPORTED AS REQUIRED IN ACCORDANCE WITH NEW WORK SPECIFICATION. ALL WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER AND AT NO ADDITIONAL CONTRACT COST.

I. PATCH TO MATCH EXISTING ALL NEW AND EXISTING OPENING AND WALLS, CEILINGS, ROOF, AND FLOOR SURFACES DAMAGED OR CREATED BY DEMOLITION WORK. PATCHING WHERE POSSIBLE SHALL MATCH EXISTING ADJACENT SURFACES AS TO THICKNESS, TEXTURES, MATERIALS, AND COLOR. ALL PATCHING SHALL BE PERFORMED TO THE SATISFACTION OF THE ARCHITECT AND AT NO ADDITIONAL CONTRACT COST.

J. IN GENERAL ALL EQUIPMENT AND MATERIALS SHOWN "LIGHT" IS EXISTING TO REMAIN. ALL EQUIPMENT AND MATERIALS SHOWN "HEAVY AND HATCHED" IS EXISTING AND SHALL BE DEMOLISHED.

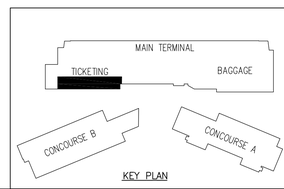
DRAWING NOTES:

1. REMOVE EXISTING ELECTRIC UNIT HEATER.
2. PROVIDE NEW EXHAUST FAN, EF-6. FAN SHALL OPERATE THROUGH AN OCCUPANCY SENSOR. SEE SCHEDULE FOR ADDITIONAL INFORMATION.
3. TERMINATE EXHAUST DUCTWORK WITH A 45 DEGREE ELBOW DOWN OUTSIDE EXTERIOR WALL. PROVIDE BIRD SCREEN AT OPENING.
4. NEW AHU-1A SHALL BE INSTALLED ABOVE THE CEILING.

FIRE RATED WALL LEGEND

1 HOUR FIRE PARTITION

1 HOUR FIRE BARRIER



KEY PLAN

2' 0 2' 4'

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

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NORTH CAROLINA PROFESSIONAL SEAL ENGINEER JEFFREY L. MONTROSE

07/31/23

Fayetteville Regional Airport Airline Terminal Improvements - Part 3

FIRST FLOOR MECHANICAL ENLARGED PLANS

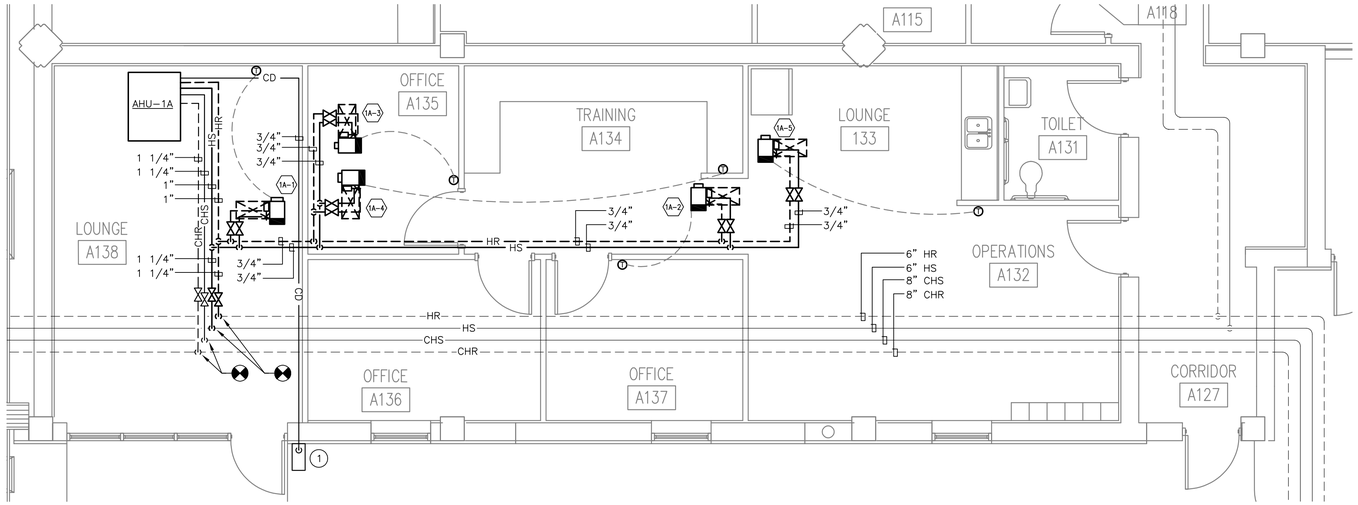
400 Airport Road
Fayetteville, North Carolina 28306

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DATE: 7/31/2023
PROJECT NO.: 02230515.A0
NOTES:

REVISIONS

SHEET NUMBER

M4.11



1 M1.10/M4.12

AIRLINE OFFICE NEW WORK PLAN - HVAC PIPING

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

GENERAL NOTES:

A. NOTIFY THE OWNER, IN WRITING, AT LEAST SEVEN (7) DAYS IN ADVANCE OF ALL REQUIRED SHUTDOWNS OF ELECTRICAL SERVICE, OR OTHER UTILITIES. UPON WRITTEN RECEIPT OF APPROVAL FROM OWNER, SHUTDOWNS SHALL BE ACCOMPLISHED AT NO ADDITIONAL CONTRACT COST. AT THE END OF EACH SHUT DOWN ALL SERVICES SHALL BE RESTORED.

B. WHEN WORKING IN AND AROUND THE EXISTING BUILDING, EXTREME CARE SHALL BE EXERCISED WITH REGARD TO PROTECTION OF THE EXISTING STRUCTURE, FIRE PROTECTION, PLUMBING, MECHANICAL AND ELECTRICAL SERVICES WHICH WILL REMAIN. REPAIR, REPLACE, OR RESTORE TO THE SATISFACTION OF THE OWNER ALL EXISTING WORK DAMAGED IN THE PERFORMANCE OF DEMOLITION AND/OR NEW YORK

C. ALL EXISTING DUCTWORK, EQUIPMENT, PIPING, AND MATERIALS NOT REQUIRED FOR RE-USE OR RE-INSTALLATION (SHOWN OR OTHERWISE) SHALL BE REMOVED. ALL EXISTING MATERIALS AND EQUIPMENT WHICH ARE REMOVED AND ARE DESIRED BY THE OWNER, OR ARE INDICATED TO THE PREMISES BY THE CONTRACTOR WHERE DIRECTED BY THE ENGINEER. ALL OTHER MATERIALS AND EQUIPMENT WHICH ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED BY THE CONTRACTOR FROM THE PREMISES.

D. EXISTING CONDITIONS, I.E., PRESENCE AND LOCATION OF DUCTWORK, DIFFUSERS, PIPING, EQUIPMENT, AND MATERIALS, INDICATED ARE BASED ON INFORMATION OBTAINED FROM AVAILABLE RECORD DRAWINGS AND FIELD SURVEYS AND ARE NOT WARRANTED TO BE COMPLETE OR CORRECT. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL CONDUITS, EQUIPMENT, AND MATERIALS IN THE FIELD PRIOR TO STARTING ALL WORK.

E. EXISTING EQUIPMENT SIZES NOTED ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND ARE NOT WARRANTED TO BE CORRECT. CONTRACTOR SHALL VERIFY ALL SIZES IN THE FIELD IF THEY EFFECT HIS WORK.

F. WHEN EXISTING MECHANICAL WORK IS REMOVED, ALL DUCTWORK, PIPING AND MATERIALS SHALL BE REMOVED TO A POINT BELOW THE FINISHED FLOORS OR BEHIND FINISHED WALLS AND CAPPED. SUCH POINTS SHALL BE FAR ENOUGH BEHIND FINISHED SURFACES TO ALLOW FOR THE INSTALLATION OF THE NORMAL THICKNESS OF FINISHED MATERIAL.

G. EXISTING DUCTWORK & PIPING NO LONGER REQUIRED TO REMAIN IN SERVICE (SHOWN OR OTHERWISE) SHALL BE DISCONNECTED AND REMOVED BACK THE MAIN UNLESS OTHERWISE INDICATED OR NOTED ON THE PLANS. REMOVE EXISTING PIPE HANGERS, SUPPORTS, ETC..

H. EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT. CONDUIT, WIRING, DEVICES, AND MATERIALS AFFECTED BY DEMOLITION OR NEW WORK INSTALLATION AND REQUIRED TO REMAIN IN SERVICE SHALL BE REINSTALLED OR SUPPORTED AS REQUIRED IN ACCORDANCE WITH NEW WORK SPECIFICATION. ALL WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER AND AT NO ADDITIONAL CONTRACT COST.

I. PATCH TO MATCH EXISTING ALL NEW AND EXISTING OPENING AND WALLS, CEILINGS, ROOF, AND FLOOR SURFACES DAMAGED OR CREATED BY DEMOLITION WORK. PATCHING WHERE POSSIBLE SHALL MATCH EXISTING ADJACENT SURFACES AS TO THICKNESS, TEXTURES, MATERIALS, AND COLOR. ALL PATCHING SHALL BE PERFORMED TO THE SATISFACTION OF THE ARCHITECT AND AT NO ADDITIONAL CONTRACT COST.

J. IN GENERAL ALL EQUIPMENT AND MATERIALS SHOWN "LIGHT" IS EXISTING TO REMAIN. ALL EQUIPMENT AND MATERIALS SHOWN "HEAVY AND HATCHED" IS EXISTING AND SHALL BE DEMOLISHED.

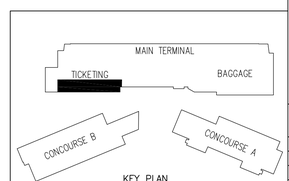
DRAWING NOTES:

1. ROUTE 3/4" CONDENSATE DRAIN PIPING FOR AHU-1A TO THE EXTERIOR OF THE BUILDING. PROVIDE CONCRETE SPLASH BLOCK.

FIRE RATED WALL LEGEND

1 HOUR FIRE PARTITION

1 HOUR FIRE BARRIER



KEY PLAN

2' 0 2' 4'

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

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040777 JEFFERY L. MONROE

07/31/23

Fayetteville Regional Airport Airline Terminal Improvements - Part 3

400 Airport Road
Fayetteville, North Carolina 28306

FIRST FLOOR MECHANICAL ENLARGED PLAN

DRAWN BY: BMC
REVIEWED BY: ALM
DATE: 7/31/2023
PROJECT NO.: 02230515.A0
NOTES:

REVISIONS

SHEET NUMBER

M4.12

GENERAL NOTES:

A. NOTIFY THE OWNER, IN WRITING, AT LEAST SEVEN (7) DAYS IN ADVANCE OF ALL REQUIRED SHUTDOWNS OF ELECTRICAL SERVICE, OR OTHER UTILITIES. UPON WRITTEN RECEIPT OF APPROVAL FROM OWNER, SHUTDOWNS SHALL BE ACCOMPLISHED AT NO ADDITIONAL CONTRACT COST. AT THE END OF EACH SHUT DOWN ALL SERVICES SHALL BE RESTORED.

B. WHEN WORKING IN AND AROUND THE EXISTING BUILDING, EXTREME CARE SHALL BE EXERCISED WITH REGARD TO PROTECTION OF THE EXISTING STRUCTURE, FIRE PROTECTION, PLUMBING, MECHANICAL AND ELECTRICAL SERVICES WHICH WILL REMAIN. REPAIR, REPLACE, OR RESTORE TO THE SATISFACTION OF THE OWNER ALL EXISTING WORK DAMAGED IN THE PERFORMANCE OF DEMOLITION AND/OR NEW YORK

C. ALL EXISTING DUCTWORK, EQUIPMENT, PIPING, AND MATERIALS NOT REQUIRED FOR RE-USE OR RE-INSTALLATION (SHOWN OR OTHERWISE) SHALL BE REMOVED. ALL EXISTING MATERIALS AND EQUIPMENT WHICH ARE REMOVED AND ARE DESIRED BY THE OWNER, OR ARE INDICATED TO THE PREMISES BY THE CONTRACTOR WHERE DIRECTED BY THE ENGINEER. ALL OTHER MATERIALS AND EQUIPMENT WHICH ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED BY THE CONTRACTOR FROM THE PREMISES.

D. EXISTING CONDITIONS, I.E., PRESENCE AND LOCATION OF DUCTWORK, DIFFUSERS, PIPING, EQUIPMENT, AND MATERIALS, INDICATED ARE BASED ON INFORMATION OBTAINED FROM AVAILABLE RECORD DRAWINGS AND FIELD SURVEYS AND ARE NOT WARRANTED TO BE COMPLETE OR CORRECT. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL CONDUITS, EQUIPMENT, AND MATERIALS IN THE FIELD PRIOR TO STARTING ALL WORK.

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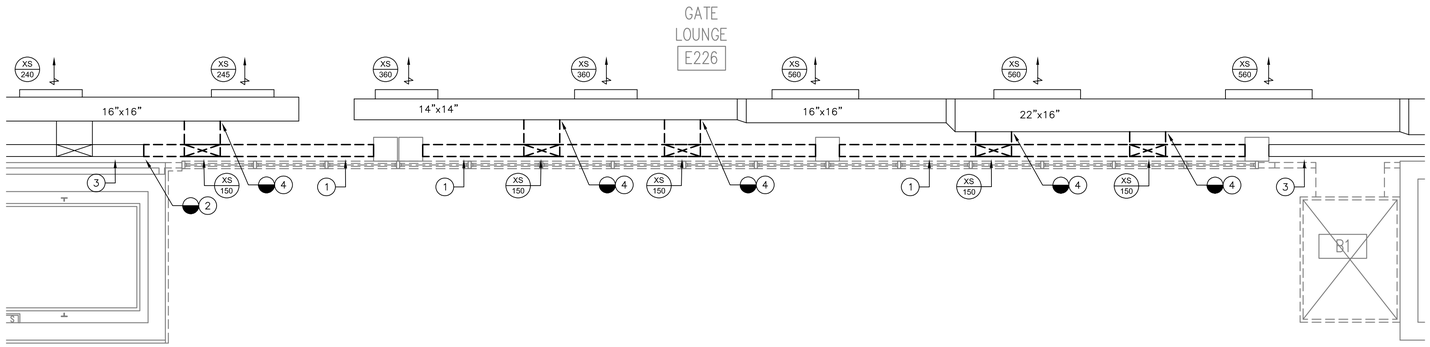
F. WHEN EXISTING MECHANICAL WORK IS REMOVED, ALL DUCTWORK, PIPING AND MATERIALS SHALL BE REMOVED TO A POINT BELOW THE FINISHED FLOORS OR BEHIND FINISHED WALLS AND CAPPED. SUCH POINTS SHALL BE FAR ENOUGH BEHIND FINISHED SURFACES TO ALLOW FOR THE INSTALLATION OF THE NORMAL THICKNESS OF FINISHED MATERIAL.

G. EXISTING DUCTWORK & PIPING NO LONGER REQUIRED TO REMAIN IN SERVICE (SHOWN OR OTHERWISE) SHALL BE DISCONNECTED AND REMOVED BACK THE MAIN UNLESS OTHERWISE INDICATED OR NOTED ON THE PLANS. REMOVE EXISTING PIPE HANGERS, SUPPORTS, ETC..

H. EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT. CONDUIT, WIRING, DEVICES, AND MATERIALS AFFECTED BY DEMOLITION OR NEW WORK INSTALLATION AND REQUIRED TO REMAIN IN SERVICE SHALL BE REINSTALLED OR SUPPORTED AS REQUIRED IN ACCORDANCE WITH NEW WORK SPECIFICATION. ALL WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER AND AT NO ADDITIONAL CONTRACT COST.

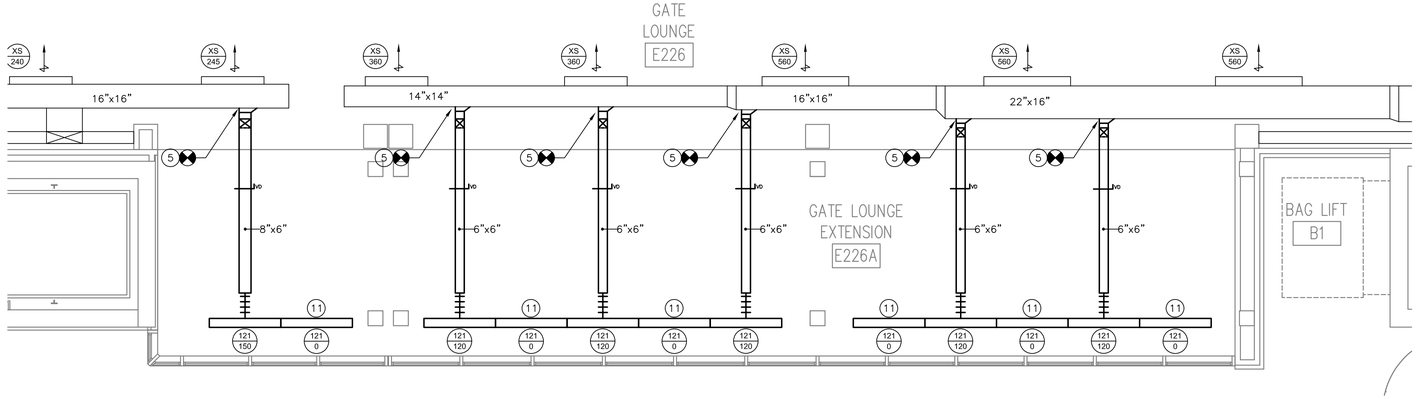
I. PATCH TO MATCH EXISTING ALL NEW AND EXISTING OPENING AND WALLS, CEILINGS, ROOF, AND FLOOR SURFACES DAMAGED OR CREATED BY DEMOLITION WORK. PATCHING WHERE POSSIBLE SHALL MATCH EXISTING ADJACENT SURFACES AS TO THICKNESS, TEXTURES, MATERIALS, AND COLOR. ALL PATCHING SHALL BE PERFORMED TO THE SATISFACTION OF THE ARCHITECT AND AT NO ADDITIONAL CONTRACT COST.

J. IN GENERAL ALL EQUIPMENT AND MATERIALS SHOWN "LIGHT" IS EXISTING TO REMAIN. ALL EQUIPMENT AND MATERIALS SHOWN "HEAVY AND HATCHED" IS EXISTING AND SHALL BE DEMOLISHED.



1 M1.10M4.21 **GATE EXTENSION DEMOLITION PLAN - DUCTWORK**

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

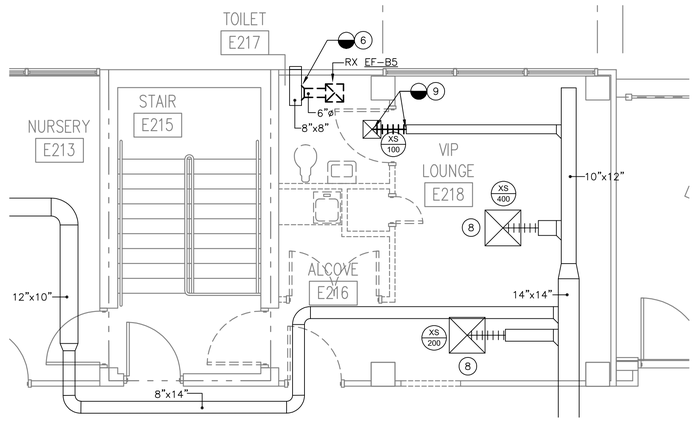


2 M1.10M4.21 **GATE EXTENSION NEW WORK PLAN - DUCTWORK**

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

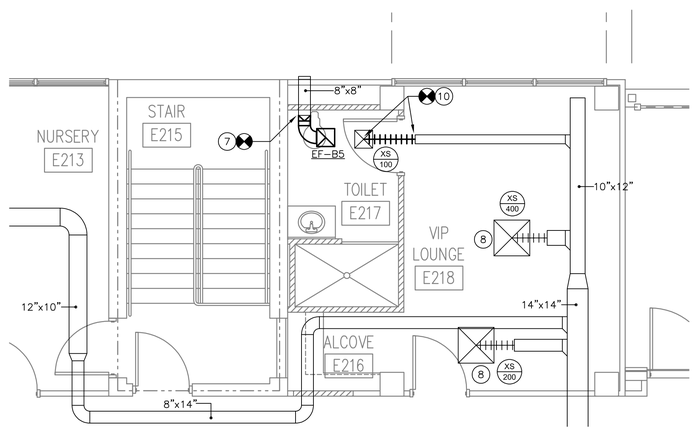
DRAWING NOTES:

1. REMOVE CONTINUOUS LINEAR SLOT DIFFUSER. PATCH OPENING IN THE CEILING TO MATCH EXISITNG
2. REMOVE CONTINUOUS SLOT DIFFUSER BACK TO THIS POINT. CAP OPEN END OF SUPPLY PLENUM ABOVE THE CEILING.
3. EXISTING CONTINUOUS SLOT DIFFUSER TO REMAIN.
4. DISCONNECT LINEAR SLOT DIFFUSER SUPPLY DUCTWORK FROM THE MAIN AND CAP.
5. CONNECT NEW SUPPLY DUCTWORK TO EXISTING MAIN.
6. REMOVE EXISTING EF-B5. MAINTAIN EXISTING 8"x8" DUCTWORK.
7. PROVIDE NEW EXHAUST FAN EF-B5. CONNECT NEW 8"ø DUCTWORK TO THE EXISTING 8"x8" DUCTWORK. EXTEND DUCTWORK AS NEEDED TO MAKE FINAL CONNECTION. NEW FAN SHALL OPERATE THROUGH AN OCCUPANCY SENSOR. SEE SCHEDULE FOR ADDITIONAL INFORMATION.
8. EXISTING SUPPLY DIFFUSER TO REMAIN.
9. DISCONNECT EXISTING SUPPLY DIFFUSER AND RELOCATE TO ALIGN WITH THE NEW CEILING GRID IN TOILET E217.
10. RELOCATE EXISTING SUPPLY DIFFUSER TO ALIGN WITH THE NEW CEILING GRID IN TOILET E217. EXTEND FLEX DUCTWORK AS NEEDED. DO NOT EXCEED 5'-0" OF FLEX DUCTWORK. REBALANCE AIRFLOW BACK TO THE EXISTING VALUE SHOWN.
11. BLANK OFF NEW LINEAR SLOT DIFFUSER. PLENUM BOX IS NO REQUIRED.



3 M1.10M4.21 **LOUNGE DEMOLITION PLAN - DUCTWORK**

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



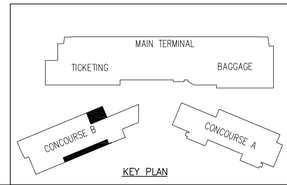
4 M1.10M4.21 **LOUNGE NEW WORK PLAN - DUCTWORK**

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

FIRE RATED WALL LEGEND

1 HOUR FIRE PARTITION

1 HOUR FIRE BARRIER



KEY PLAN

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

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NORTH CAROLINA PROFESSIONAL SEAL 032911 ENGINEER JEFFERY L. MONROE

07/31/23

Fayetteville Regional Airport Airline Terminal Improvements - Part 3

SECOND FLOOR MECHANICAL ENLARGED PLANS

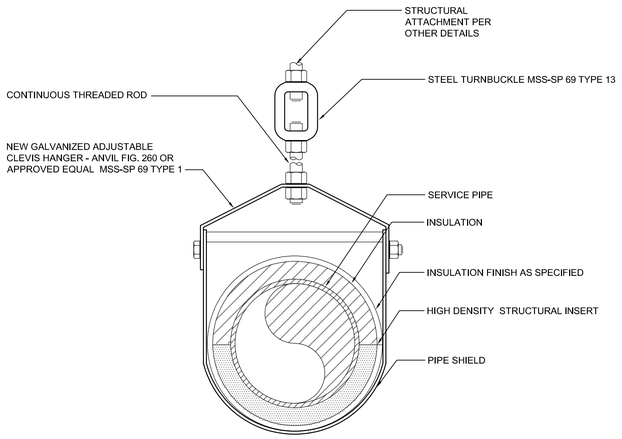
400 Airport Road
Fayetteville, North Carolina 28306

DRAWN BY: RMC
REVIEWED BY: ALM
DATE: 7/31/2023
PROJECT NO.: 02230515.A0
NOTES:

REVISIONS

SHEET NUMBER

M4.21

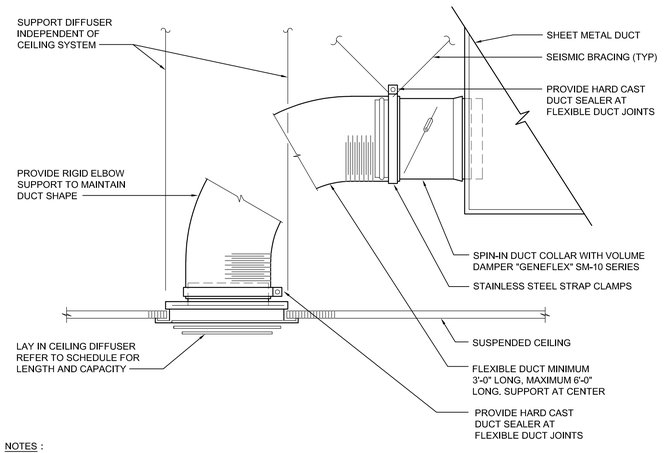


NOTES:

1. FOR NON INSULATED PIPES, OUTSIDE PIPE WALL SHALL REST DIRECTLY ON INNER WALL OF CLEVIS HANGER.

DETAIL - CLEVIS HANGER

SCALE: NONE — 4

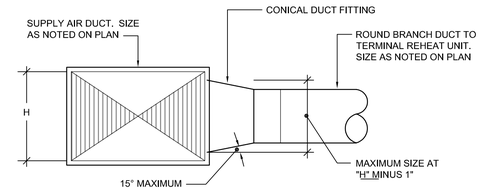


NOTES :

1. DUCT INSULATION SHALL BE PROVIDED AS SPECIFIED.
2. PROVIDE ADDITIONAL ROUND, RIGID SHEET METAL DUCTWORK AS REQUIRED TO LIMIT FLEXIBLE DUCT LENGTH TO 6'-0" MAXIMUM.
3. MAXIMUM SAG 1/2" PER FOOT.
4. PROVIDE SEISMIC SWAY BRACING FOR ALL DUCTWORK AND HANGERS PER THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.
5. CONTRACTOR SHALL VERIFY MAXIMUM LOADING ON DUCTWORK SUPPORT ASSEMBLIES.

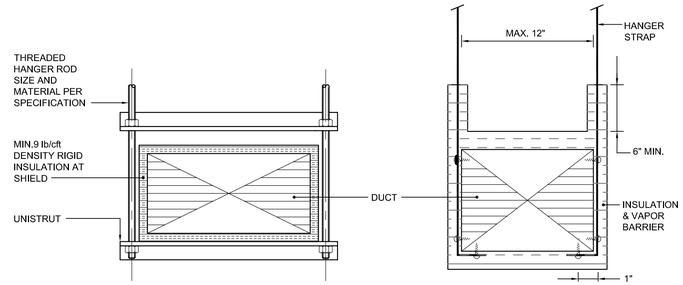
DETAIL - CEILING DIFFUSER BRANCH DUCT

SCALE: NONE — 3



DETAIL - CONICAL DUCT FITTING

SCALE: NONE — 1



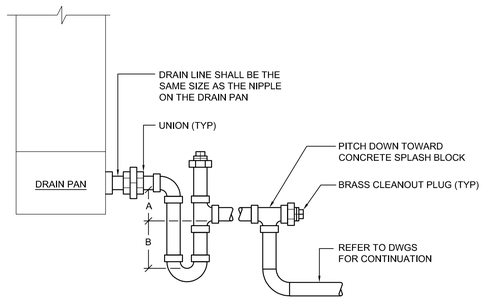
TRAPEZE HANGER DETAIL — STRAP HANGER DETAIL

NOTES:

1. TRAPEZE HANGERS SHALL BE PROVIDED FOR ALL DUCT WORK. TRAPEZE HANGERS CANNOT BE USED FOR BRANCH DUCT WORK 12" IN WIDTH AND SHORTER REFER TO STRAP HANGER DETAIL.
2. SUPPORTS SHALL BE SPACED AND SIZED AS PER SPECIFICATIONS.
3. RIGID INSULATION SHALL EXTEND MINIMUM OF 3" BEYOND STRUT ON BOTH SIDES. MAINTAIN VAPOR BARRIER ACROSS STRUT.

DETAIL - DUCT SUPPORT

SCALE: NONE — 2



NOTE:

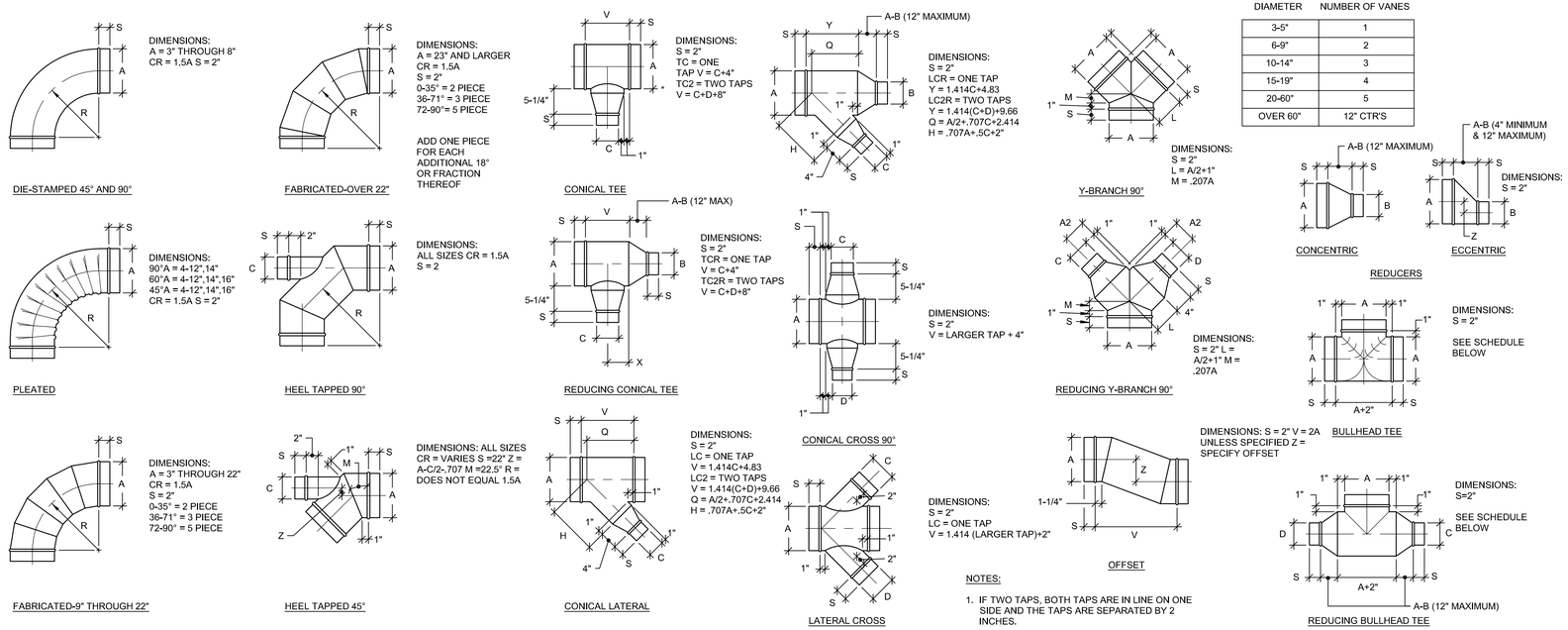
FOR THE DRAW THRU FAN COIL UNIT:

A = THE FCU SUPPLY FAN TOTAL STATIC PRESSURE (INCHES) PLUS TWO (2) INCHES.

B = THE FCU SUPPLY FAN TOTAL STATIC PRESSURE (INCHES)

DETAIL - COIL CONDENSATE DEEP SEAL TRAP

SCALE: NONE — 6



NOTES:

1. IF TWO TAPS, BOTH TAPS ARE IN LINE ON ONE SIDE AND THE TAPS ARE SEPARATED BY 2 INCHES.

DETAIL - ROUND DUCT FITTINGS

SCALE: NONE — 5

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049407 JEFFREY L. MONROE

07/31/23

Fayetteville Regional Airport Airline Terminal Improvements – Part 3

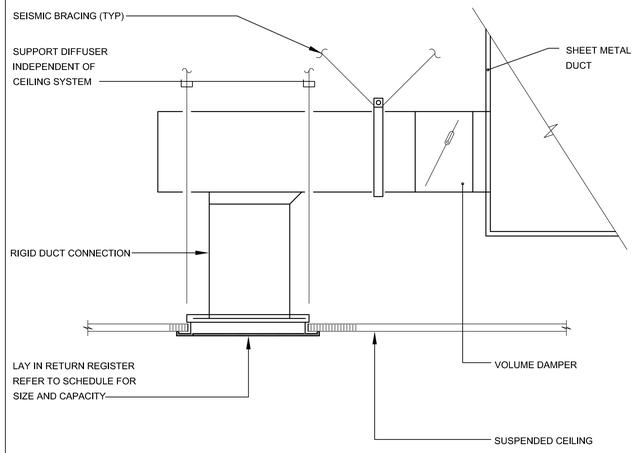
400 Airport Road
Fayetteville, North Carolina 28306

MECHANICAL DETAILS

DRAWN BY: BMC
REVIEWED BY: ALM
DATE: 7/31/2023
PROJECT NO.: 02230515.A0
NOTES:

REVISIONS

SHEET NUMBER
M5.01

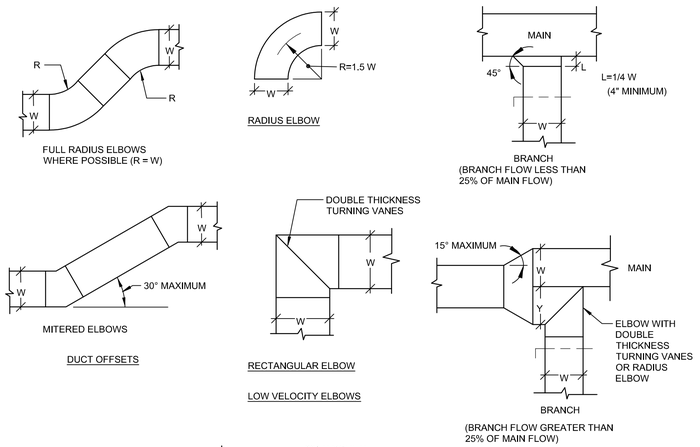


NOTES:

1. DUCT INSULATION SHALL BE PROVIDED AS SPECIFIED.
2. PROVIDE SEISMIC SWAY BRACING FOR ALL DUCTWORK AND HANGERS PER THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.
3. CONTRACTOR SHALL VERIFY MAXIMUM LOADING ON DUCTWORK SUPPORT ASSEMBLIES.

DETAIL - RETURN / EXHAUST BRANCH DUCT

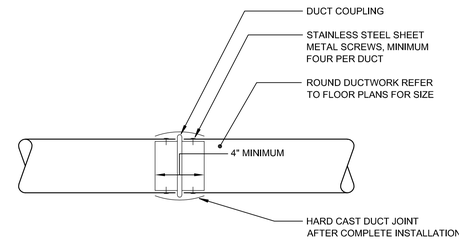
SCALE: NONE — 4



RECTANGULAR TO RECTANGULAR TRANSITIONS

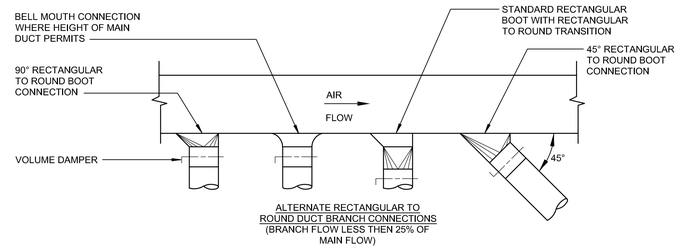
DETAIL - RECTANGULAR DUCT FITTINGS

SCALE: NONE — 3



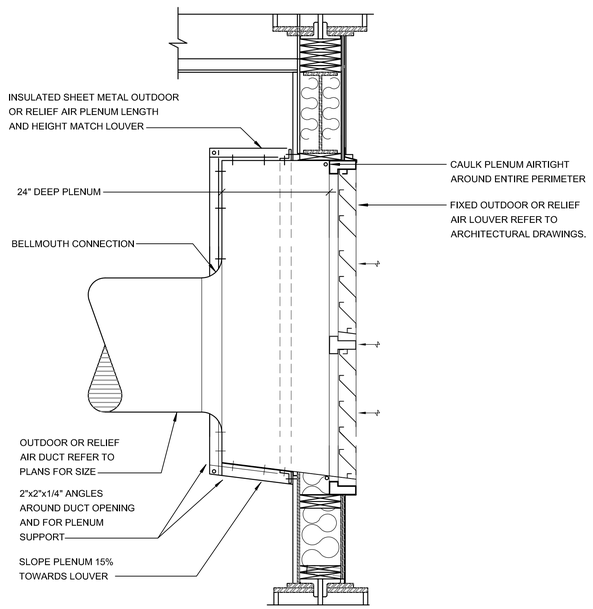
DETAIL - ROUND DUCT JOINT

SCALE: NONE — 1



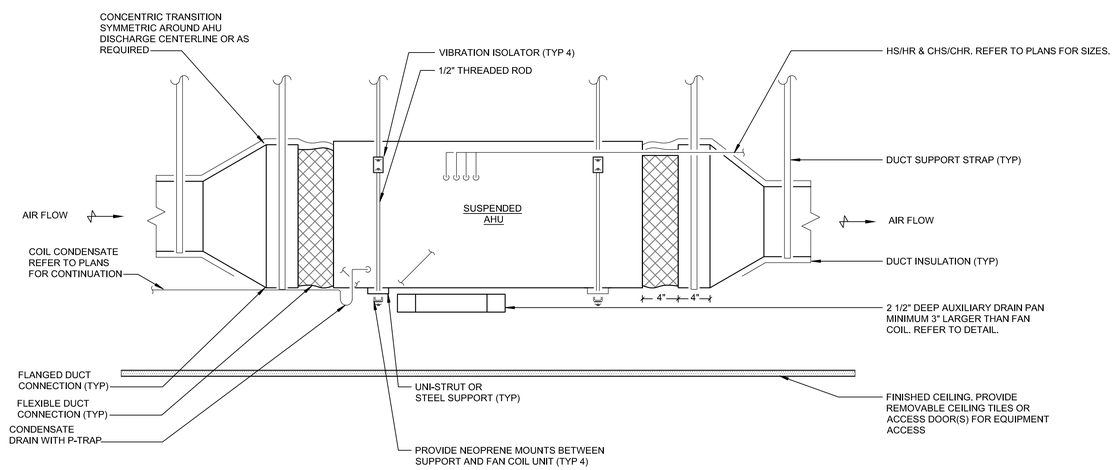
DETAIL - LOW VELOCITY BRANCH TAKE-OFF

SCALE: NONE — 2



DETAIL - OUTDOOR AIR INTAKE PLENUM

SCALE: NONE — 6



NOTES:

1. PROVIDE FLEXIBLE DUCT CONNECTIONS BEFORE TRANSITIONS.
2. CONTRACTOR SHALL VERIFY MAXIMUM LOADING ON FAN COIL AND DUCTWORK SUPPORT ASSEMBLIES.
3. REFER TO SPECIFICATIONS FOR THREADED ROD AND HANGER ATTACHMENT INFORMATION.

DETAIL - SUSPENDED AHU

SCALE: NONE — 5

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040744 JEFFREY L. MONTROSE
07/31/23

Fayetteville Regional Airport Airline Terminal Improvements – Part 3

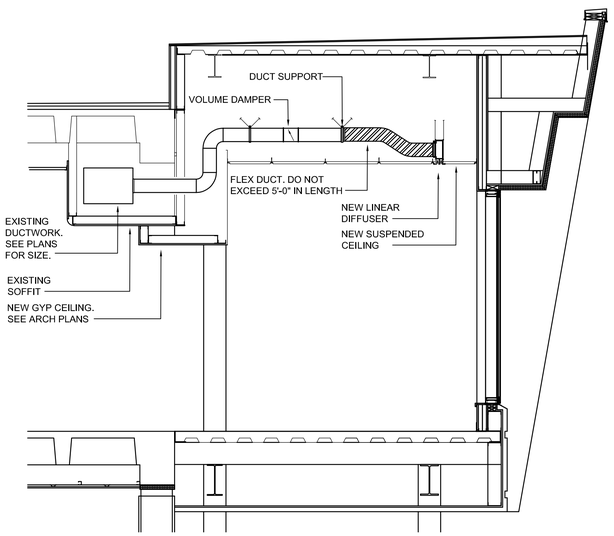
400 Airport Road
Fayetteville, North Carolina 28306

MECHANICAL DETAILS

DRAWN BY: BMC
REVIEWED BY: ALM
DATE: 7/31/2023
PROJECT NO.: 02230515.A0
NOTES:

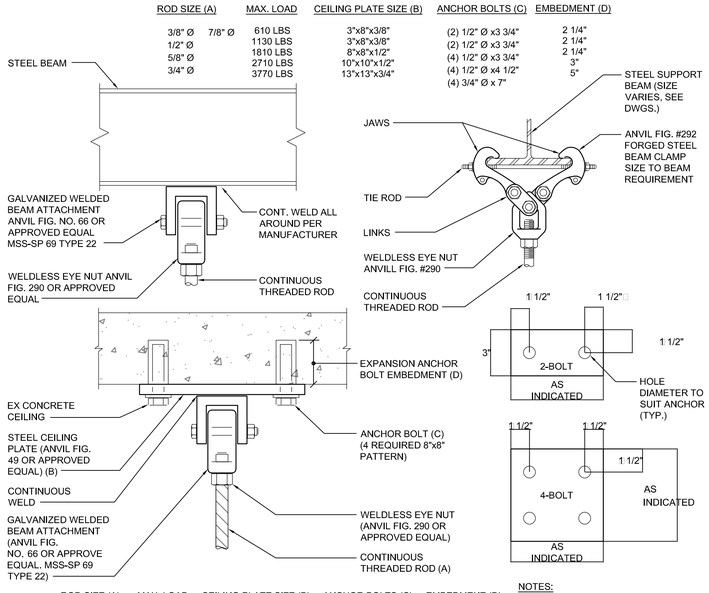
REVISIONS

SHEET NUMBER
M5.02



DETAIL - CONCOURSE EXPANSION DUCTWORK

SCALE: NONE — 3



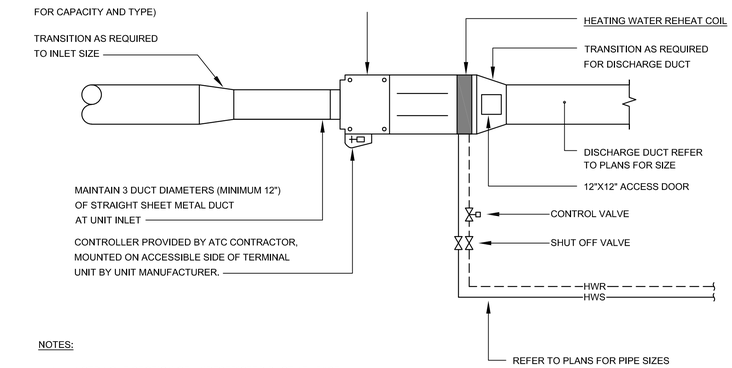
ROD SIZE (A)	MAX. LOAD	CEILING PLATE SIZE (B)	ANCHOR BOLTS (C)	EMBEDMENT (D)
1/2"Ø	600 LBS	10"x10"x3/8"	(4) 1/2"Ø-8"x8"	3 1/2"
5/8"Ø	1430 LBS	10"x10"x1/2"	(4) 1/2"Ø-8"x8"	3 12"
3/4"Ø	2400 LBS	10"x10"x1/2"	(4) 5/8"Ø-8"x8"	4"

NOTES:

1. CONTRACTOR SHALL VERIFY MAXIMUM LOADING ON PIPE SUPPORT ASSEMBLIES.

DETAIL - BUILDING ATTACHMENTS

SCALE: NONE — 2

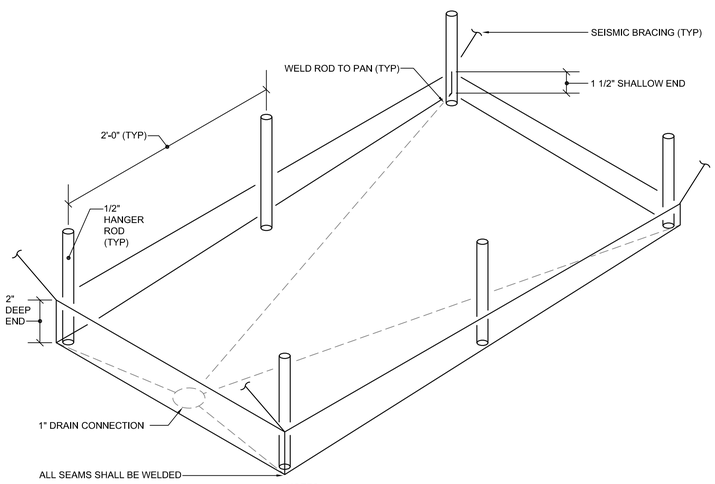


NOTES:

1. A STRAIGHT SECTION OF UNRESTRICTED DUCT AT LEAST THREE (3) DUCT DIAMETERS LONG SHALL BE INSTALLED AT THE TERMINAL UNIT INLET.

DETAIL - TERMINAL UNIT WITH REHEAT

SCALE: NONE — 1

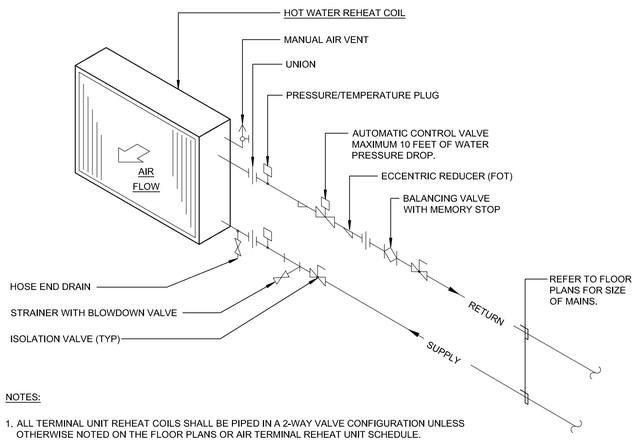


NOTES:

1. DRIP PAN SHALL BE 3" LARGER THAN THE EQUIPMENT DIMENSIONS IN WIDTH AND LENGTH AND SHALL BE CONSTRUCTED OF MIMIMUM 24 GAUGE GALVANIZED STEEL.
2. PROVIDE SEISMIC SWAY BRACING FOR DRIP PAN IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE AND THE INTERNATIONAL MECHANICAL CODE.
3. CONTRACTOR SHALL VERIFY MAXIMUM LOADING ON DRIP PAN SUPPORT ASSEMBLIES.

DETAIL - AUXILIARY DRAIN PAN

SCALE: NONE — 6

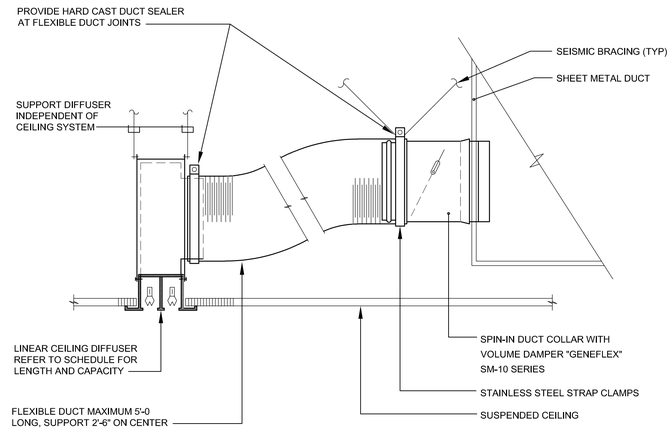


NOTES:

1. ALL TERMINAL UNIT REHEAT COILS SHALL BE PIPED IN A 2-WAY VALVE CONFIGURATION UNLESS OTHERWISE NOTED ON THE FLOOR PLANS OR AIR TERMINAL REHEAT UNIT SCHEDULE.

DETAIL - 2-WAY HYDRONIC COIL

SCALE: NONE — 5



NOTES:

1. DUCT INSULATION SHALL BE PROVIDED AS SPECIFIED.
2. PROVIDE ADDITIONAL ROUND, RIGID SHEET METAL DUCTWORK AS REQUIRED TO LIMIT FLEXIBLE DUCT LENGTH TO 5'-0" MAXIMUM.

DETAIL - LINEAR DIFFUSER INSTALLATION

SCALE: NONE — 4

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 030437 JEFFREY L. MONTROSE
07/31/23

Fayetteville Regional Airport Airline Terminal Improvements – Part 3

400 Airport Road
Fayetteville, North Carolina 28306

MECHANICAL DETAILS

DRAWN BY: BMC
REVIEWED BY: ALM
DATE: 7/31/2023
PROJECT NO.: 02230515.A0
NOTES:

REVISIONS

SHEET NUMBER
M5.03

INPUT/OUTPUT SUMMARY

POINT NO.	SYSTEM APPARATUS OR AREA POINT DESCRIPTION	INPUTS: ANALOG: MEASURED: SPEED (FREQ)	VOLTS	AMPS	KW	VALVE/DAMPER POSITION	TEMPERATURE	HUMIDITY	STATIC PRESSURE	DIFFERENTIAL PRESSURE	INLET TEMPERATURE	CO2	OUTLET TEMPERATURE	BTU/HR	RUN TIME	CFM	ENTHALPY	INPUTS: ANALOG: CALC.: STATUS (DIFF. PRESS.)	INPUTS: BINARY: STATUS	LOW TEMP LIMIT	HIGH HUM. LIMIT	END SWITCH (ES) POSITION	OUTPUTS: BINARY: ENABLE-DISABLE	DAMPER POSITION	OUTPUTS: ANALOG: VALVE POSITION	DIFFERENTIAL PRESSURE	DAMPER POSITION	SYSTEM FEATURES: ALARMS: LOW TEMP LIMIT	HIGH TEMP LIMIT	HIGH PRESS LIMIT	FAULT	FIRE ALARM	SYSTEM FEATURES: PROGRAMS: TIME SCHEDULING	ALTERNATE	TIME DELAY START	GENERAL: SCHEDULE	ALARM(S)	TREND INTERVAL (MIN)	RUN TIME TOTALIZE	SHOWN ON GRAPHIC	OVERRIDE ON GRAPHIC
	AIR HANDLING UNIT AHU-1A																																									
1	SUPPLY FAN (SF)	X	X	X	X										X	X			X				X			X				X					X	X	5	X	X	X
2, 3	MODULATING AIR DAMPER (D-1, D-2)					X													X			X	X							X					X	X			X	X
4, 5, 6	AIR STREAM TEMP. SENSORS (TT-1, TT-2, TT-3)						X				X	X		X			X			X								X	X	X					X	5		X	X
7	SYSTEM STATIC PRESSURE (SSPS-1)								X																						X	X					X			X	
8	AHU-1A FILTER DP (FDP-1)									X																						X					X	5	X	X	X
9	AHU-1A SUPPLY FAN DIFFERENTIAL PRESSURE (SDP)									X								X	X						X							X				X	X		X		
10	OUTSIDE AIR CO2 PPM (OAC02)												X																								X	5		X	
11	OUTDOOR AIR HUMIDITY/WB TEMP (OAH)							X																								X					X	5		X	
12	OUTSIDE AIR TEMPERATURE (OAT)							X																								X					X	5		X	
13	SPACE AIR TEMPERATURE (SAT)						X																									X					X	5		X	
14	LOW STATIC PRESSURE (LSPS-1)								X																							X	X					X			X	

RTU-1 SEQUENCE OF OPERATION

GENERAL:

A. SEE PLANS FOR LOCATIONS OF ALL ROOM THERMOSTATS, DAMPERS, VALVES, AND EQUIPMENT; WHERE SUCH DEVICES ARE NOT INDICATED, BUT ARE REQUIRED BY THE SEQUENCES, THEY SHALL BE PROVIDED AND LOCATED IN THE FIELD BY THE ENGINEER.

B. OUTSIDE AIR DAMPER SHALL BE NORMALLY CLOSED AND SHALL BE OPENED WHEN THE SUPPLY FAN IS ENERGIZED.

C. ALL TEMPERATURE, HUMIDITY, PRESSURE, AND TIME SET POINTS SHALL BE FULLY ADJUSTABLE FROM THE BMS.

AIR HANDLING UNIT CONTROL:

A. THE BMS SHALL DETERMINE THE "OCCUPIED, UNOCCUPIED AND WARMUP" MODES OF OPERATION. WHEN THE UNIT IS DE-ENERGIZED, THE SUPPLY FAN SHALL BE OFF. THE OUTSIDE AIR DAMPER D-1, AND RETURN AIR DAMPER D-2 SHALL CLOSE.

B. SUPPLY FAN CONTROL:

WHEN THE UNIT IS COMMANDED ON EITHER LOCALLY OR VIA THE BMS, THE OA DAMPER, D-1, AND RA DAMPER D-2 SHALL OPEN. ONCE D-1 IS PROVEN OPEN BY THE RESPECTIVE END SWITCH, THE SUPPLY FAN SHALL START AT LOW SPEED AND SLOWLY RAMP UP TO SCHEDULED AIRFLOW.

D. OA SYSTEM VENTILATION OPTIMIZATION

1. THE AHU OUTDOOR-AIR DAMPER SHALL BE CONTROLLED TO DELIVER REQUIRED OUTDOOR AIRFLOW AT ALL LOAD CONDITIONS. THE OUTDOOR AIRFLOW SETPOINT SHALL BE DETERMINED PER THE REQUIRED AIRFLOW SHOWN ON THE AIR HANDLING UNIT SCHEDULE AND SET VIA THE OUTDOOR AIR DAMPER.

2. WHEN THE SYSTEM(S) ARE IN OCCUPIED MODE THE OA SYSTEM VENTILATION OPTIMIZATION SEQUENCE SHALL BE INCORPORATED.

3. PRIOR TO FINAL SYSTEM ACCEPTANCE, A CONTRACTOR SHALL PROVIDE A TREND LOG OF ACTUAL SYSTEM OPERATION TO THE ENGINEER AND OWNER. OPERATING CONDITIONS TO BE LOGGED INCLUDE: HIGHEST ZONE OUTDOOR-AIR FRACTION, TOTAL SYSTEM PRIMARY AIRFLOW, CALCULATED OUTDOOR AIRFLOW SETPOINT FOR THE SYSTEM, AND THE ACTUAL MEASURED OUTDOOR AIRFLOW. THESE CONDITIONS MUST BE LOGGED AT 15-MINUTE INTERVALS OVER A TYPICAL 48-HOUR PERIOD.

E. UNOCCUPIED MODE:

1. IN UNOCCUPIED MODE THE OUTSIDE AIR DAMPER, D-1, AND RETURN AIR DAMPER, D-2, SHALL BE FULLY CLOSED. SUPPLY FAN SHALL BE OFF. IF ANY ZONE CALLS FOR HEATING OR COOLING BASED ON THEIR UNOCCUPIED SPACE TEMPERATURE SETPOINT OF 85°F (ADJ) COOLING MODE / 60°F (ADJ) IN HEATING MODE, THE SUPPLY FAN SHALL START UNDER ITS NORMAL SEQUENCE. OUTSIDE AIR DAMPER D-1 SHALL REMAIN CLOSED. CHILLED WATER COOLING SYSTEM, AND HEATING WATER HEATING SYSTEM SHALL OPERATE WITHOUT OVERLAP TO MAINTAIN DISCHARGE AIR TEMPERATURE SETPOINT OF 55°F (ADJ) AS SENSED BY TT-3. ONCE SPACE TEMPERATURES HAVE BEEN SATISFIED DAMPERS, CONTROL VALVES AND FANS SHALL RETURN TO THEIR RESPECTIVE POSITIONS AND FAN STATUS OFF.

F. WARMUP MODE:

1. 60 MINUTES (ADJ) PRIOR TO CHANGE OVER FROM UNOCCUPIED MODE TO OCCUPIED MODE THE SUPPLY FAN SHALL START UNDER ITS RESPECTIVE SEQUENCE. CHILLED WATER COOLING SYSTEM AND HEATING WATER HEATING SYSTEM SHALL OPERATE WITHOUT OVERLAP TO MAINTAIN DISCHARGE AIR TEMPERATURE SETPOINT OF 55°F (ADJ) AS SENSED BY TT-3. OUTSIDE AIR DAMPER D-1 SHALL REMAIN CLOSED. DEHUMIDIFICATION MODE SHALL BE INOPERATIVE. ONCE RETURN AIR TEMPERATURE AS SENSED BY TT-4 REACHES 70°F (HEATING MODE) OR 74°F (COOLING MODE) THE UNIT SHALL TRANSFER TO OCCUPIED MODE OPERATION.

G. OCCUPIED MODE:

1. IN OCCUPIED MODE DAMPERS D-1 & D-2 SHALL OPEN AND SUPPLY FAN SHALL OPERATE PER THEIR FAN CONTROL SEQUENCES. OUTSIDE AIR DAMPER D-1 SHALL OPEN TO OBTAIN THE CALCULATED OA FLOW RATE. OUTSIDE AIR DAMPER D-1 SHALL MODULATE OPEN PER THE ECONOMIZER CONTROL SEQUENCE. CHILLED WATER COOLING SYSTEM AND HEATING WATER HEATING SYSTEM SHALL OPERATE WITHOUT OVERLAP TO MAINTAIN SUPPLY AIR TEMPERATURE SETPOINT OF 55°F (ADJ) AS SENSED BY TT-3. DEHUMIDIFICATION SHALL BE OPERATIVE.

J. SAFETIES:

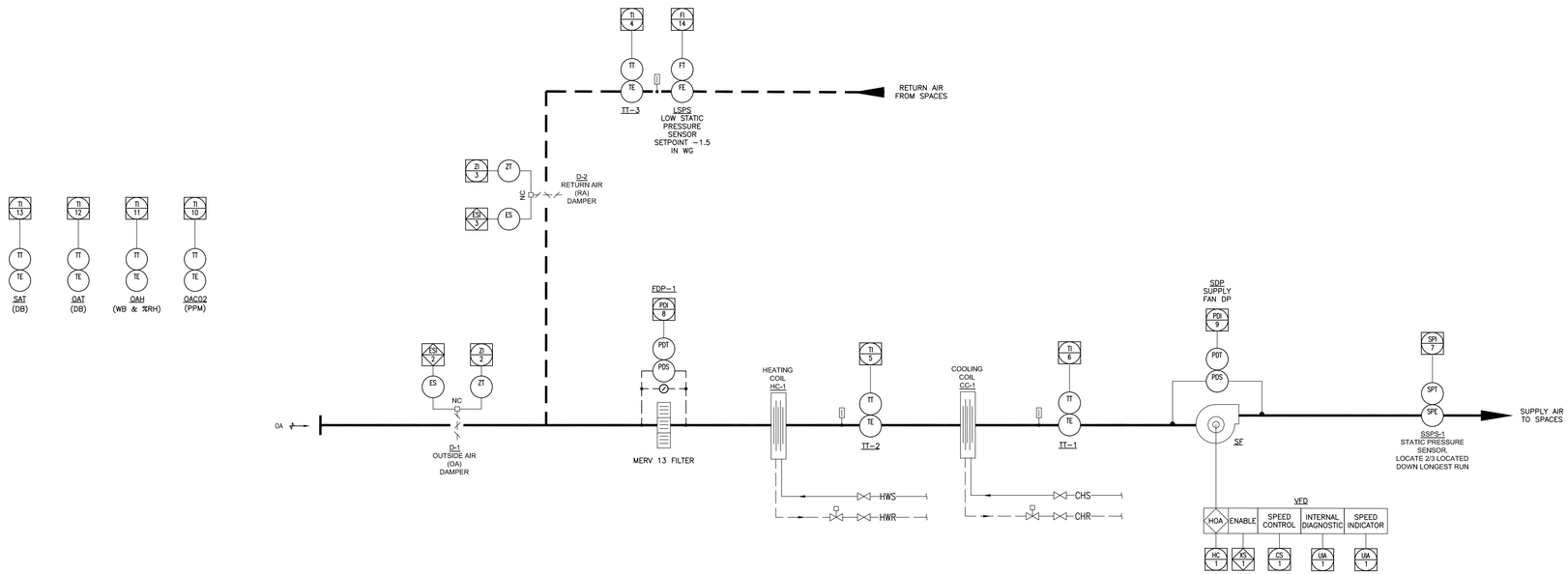
THE FOLLOWING SAFETIES SHALL DE-ENERGIZE THE SUPPLY FAN, CLOSE DAMPERS TO OUTSIDE AIR AND RELIEF AIR, ACTIVATE CHILLED WATER COOLING SYSTEM AND HEATING WATER HEATING SYSTEM, AND GENERATE AN ALARM THE BMS SYSTEM:

a. DISCHARGE HIGH STATIC PRESSURE SWITCH @ 4" W.C. (ADJ).
b. FAN FAILURE.

ALL SAFETIES REQUIRE MANUAL RESET FROM THE BMS.

K. ADDITIONAL ALARMS:

1. A DIFFERENTIAL PRESSURE SWITCH SHALL MONITOR FILTER LOADING AND GENERATE AN ALARM UPON ACTIVATION.



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NORTH CAROLINA PROFESSIONAL SEAL ENGINEER JEFFREY L. MONROE
07/31/23

Fayetteville Regional Airport Airline Terminal Improvements - Part 3
400 Airport Road
Fayetteville, North Carolina 28306

MECHANICAL AHU SCHEMATIC DIAGRAM

DRAWN BY: BMC
REVIEWED BY: ALM
DATE: 7/31/2023
PROJECT NO.: 02230515.A0
NOTES:

REVISIONS

SHEET NUMBER
M6.01

AIR HANDLING UNIT SCHEDULE

DESIGNATION	SERVICE	FAN SECTION					COOLING SECTION										HEATING SECTION									ELECTRICAL					
		CFM	MIN. OA CFM	ESP INCH H_2O	MOTOR		EAT °F		LAT °F		TOTAL MBH	SENS MBH	GPM @ 44°F EWT 56°F LWT	MAXIMUM H_2O PD FT H_2O	MIN TOTAL FACE AREA (SF)	MAXIMUM FACE VEL FPM	MIN ROWS	EAT °F	LAT °F	MBH @180°F EWT	GPM @30°F ΔT	MAXIMUM H_2O PD FT H_2O	MAXIMUM AIR PD IN H_2O	MIN TOTAL FACE AREA (SF)	MAXIMUM FACE VEL FPM	MIN ROWS	V/PH/Hz	FLA	MCA	MOCP	APPROX WEIGHT (LBS)	REMARKS
					NO.	HP	DB	WB	DB	WB																					
AHU-1A	AIRLINE OFFICES	1,290	395	1.20	1	1.5	81.6	67.14	52.77	51.69	57	39	10.0	8.0	–	490	4	40	60	28	1.85	2.0	0.1	–	490	1	480/3/60	2.5	3.13	15.0	221.9	1, 2, 3, 4, 5, 6

NOTES:
1. PROVIDE FIELD MOUNTED VFD W/DISCONNECT & BYPASS W/BACNET INTERFACE.
2. SEE SPECIFICATION 237313 FOR EQUIVALENT MANUFACTURERS.
3. SUPPORT AHU FROM STRUCTURE ABOVE
4. PROVIDE 2" PLEATED MERV 13 FILTER
5. BASIS OF DESIGN: TRANE BCHE054
6. PROVIDE OVERFLOW DRAIN PAN THAT DISABLES THE UNIT AND SENDS A SIGNAL TO THE BAS WHEN WATER IS DETECTED.

FAN SCHEDULE

DESIGNATION	SERVICE	CFM	SP INCH H_2O	APPROX RPM	BHP	HP (MOTOR SIZE)	DRIVE	ELECTRICAL				APPROX WEIGHT (LBS)	BASIS OF DESIGN (GREENHECK)	REMARKS
								V/PH/Hz	FLA	MCA	MOP			
EF-6	TOILET A131	75	0.5	773	0.01	–	DIRECT	115/1/60	0.29	0.4	15	8	SP-LP0511-1	1, 3, 4
EF-B5	TOILET E217	150	0.5	825	0.07	–	DIRECT	115/1/60	0.46	0.6	15	23	CSP-A200	2, 3, 4

NOTES:
1. PROVIDE UL LISTING, DISCONNECT SWITCH, HANGING SPRING ISOLATORS AND 45 DEGREE DISCHARGE WITH BIRD SCREEN AND BACKDRAFT DAMPER.
2. PROVIDE UL LISTING, DISCONNECT SWITCH AND HANGING SPRING ISOLATORS.
3. FAN SHALL BE OPERATED BY OCCUPANCY SENSOR.
4. SEE SPECIFICATIONS FOR EQUIVALENT MANUFACTURERS.

AIR DEVICE SCHEDULE

No / CFM	SERVICE	CFM	SIZE	BLOW	BASIS OF DESIGN	REMARKS
101	SUPPLY	0-115	24"x24"	4-WAY	PRICE - SPD	6"ø NECK
102	SUPPLY	116-205	24"x24"	4-WAY	PRICE - SPD	8"ø NECK
121	SUPPLY	0-190	6"Wx4'-0"L	–	PRICE - SDS75	6" ø NECK, 3 SLOTS, 3/4" SLOT SPACING OPPOSED, TECH ZONE
201	RETURN	0-1600	24"x24"	–	PRICE - SMDA	24"x24" NECK

NOTE:
1. LINEAR SLOT DIFFUSER SHOULD BE SUPPLIED WITH A PLENUM BOX.
2. PROVIDE INSULATION FOR ALL DIFFUSERS AND GRILLES WITH PLENUM BOXES.
3. PROVIDE VOLUME DAMPERS FOR ALL SUPPLY DIFFUSERS, RETURN, AND EXHAUST GRILLES.
4. SEE SPECIFICATION 233713 FOR EQUIVALENT MANUFACTURERS.

VARIABLE AIR VOLUME TERMINAL REHEAT UNIT SCHEDULE

DESIGNATION (No)	SERVICE	TYPE	COOLING CFM		HEATING CFM		INLET SIZE	OUTLET SIZE	MINIMUM INLET SP INCH WG	MAXIMUM NC VALUE @1.0 INCH WG INLET SP	HEATING COIL PERFORMANCE				BASIS OF DESIGN	REMARKS
			MAXIMUM	MINIMUM	MAXIMUM	MINIMUM					EAT °F	LAT °F	MBH @180°F EWT	GPM @30°F ΔT		
1A-1	LOUNGE A138	VAV	340	105	170	105	6"	10"x10"	1	30	53	100	8.26	0.8	NAILOR - D3ORW	1, 2
1A-2	OFFICE A136 & A137	VAV	190	60	145	60	6"	10"x10"	1	30	53	100	7.05	0.7	NAILOR - D3ORW	1, 2
1A-3	OFFICE A135	VAV	75	35	35	35	4"	10"x10"	1	30	53	100	1.70	0.2	NAILOR - D3ORW	1, 2
1A-4	TRAINING A134	VAV	175	90	90	90	6"	10"x10"	1	30	53	100	4.37	0.4	NAILOR - D3ORW	1, 2
1A-5	OPERATIONS A132 & LOUNGE 133	VAV	510	315	315	315	8"	12"x12"	1	30	53	100	15.31	1.5	NAILOR - D3ORW	1, 2

NOTE:
1. SEE SPECIFICATION 233600 FOR EQUIVALENT MANUFACTUERS.
2. MOUNT TERMINAL UNITS NO MORE THAN 24" ABOVE CEILING.

OUTSIDE AIR LOUVER SCHEDULE

DESIGNATION	SERVICE	TYPE	DIMENSIONS		GROSS AREA	FREE AREA	MAX VELOCITY (FT/MIN)
			LENGTH	HEIGHT			
OAL-1	AHU-1A	DRAINABLE COMBINATION MOROTRIZED LOUVER DAMPER	24"	12"	2 SF	0.79	500

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049161 JEFFERY L. MONROE
07/31/23

Fayetteville Regional Airport Airline Terminal Improvements - Part 3
400 Airport Road
Fayetteville, North Carolina 28306

MECHANICAL SCHEDULES

DRAWN BY: BMC
REVIEWED BY: ALM
DATE: 7/31/2023
PROJECT NO.: 02230515.A0
NOTES:

REVISIONS

SHEET NUMBER
M7.01

ELECTRICAL DIAGRAMS

SYMBOL	DESCRIPTIONS
N E L	AUTOMATIC TRANSFER DEVICE
	GROUND CONNECTION
	TRANSFORMER (DELTA – RESISTANCE GROUNDED WYE SHOWN)

LIGHTING SYMBOLS

SYMBOL	DESCRIPTIONS	MH (UON)
$	SINGLE POLE TOGGLE SWITCH	48" TOD
$a	SWITCH – SUBLETTER INDICATES FIXTURES CONTROLLED	48" TOD
$3	THREE–WAY TOGGLE SWITCH (SPDT)	48" TOD
$4	FOUR–WAY TOGGLE SWITCH (DPDT)	48" TOD
$3aD	THREE WAY DIMMER SWITCH CONTROLLING FIXTURES INDICATED WITH LOWERCASE a.	48" TOD
$M	MANUAL STARTER WITH OVERLOADS	48" TOD
$D	DIMMER SWITCH	48" TOD
$OS	WALL MOUNTED OCCUPANCY SENSOR	48" TOD
OSU	DUAL TECHNOLOGY OCCUPANCY SENSOR–"U" INDICATES ULTRASONIC TECHNOLOGY	
OSU	DUAL TECHNOLOGY OCCUPANCY SENSOR–"U" INDICATES ULTRASONIC TECHNOLOGY	
P	PHOTOCELL OR PUSHPLATE SWITCH	
ERCD	EMERGENCY TRANSFER RELAY CONTROL DEVICE	
	FLUORESCENT LIGHTING FIXTURE – RECESSED, SURFACE, OR PENDANT MOUNTED, TYPE AS SPECIFIED	
	FLUORESCENT INDUSTRIAL LIGHTING FIXTURE	
	FLUORESCENT LIGHTING FIXTURE – WALL MOUNTED, TYPE AS SPECIFIED	
	LIGHTING FIXTURE – RECESSED, SURFACE, OR PENDANT MOUNTED	
	LIGHTING FIXTURE – WALL MOUNTED TYPE AS SPECIFIED	
	WALL WASHER	
	ADJUSTABLE WALL WASHER	
	LIGHTING FIXTURE ON EMERGENCY CIRCUIT	
NL	NIGHT LIGHT– LIGHTING FIXTURE WIRED TO SOURCE AHEAD OF ANY SWITCHING	
	EMERGENCY BATTERY PACK WITH NUMBER OF HEADS INDICATED	
	EXIT SIGN – CEILING OR PENDANT MOUNTED (SHADED PORTION INDICATES FACE)	
	EXIT SIGN – WALL MOUNTED – END, BACK	
	EXIT SIGN WITH DIRECTIONAL ARROWS	

POWER SYMBOLS

SYMBOL	DESCRIPTIONS	MH (UON)
CHG	CHARGING STATION	TOD 48" AFF
$	COMBINATION SWITCH AND DUPLEX RECEPTACLE	TOD 48" AFF
	SIMPLEX RECEPTACLE	CTR 18" AFF
E	DUPLEX RECEPTACLE. 'E' (IF SHOWN) INDICATES CONNECTED TO EMERGENCY CIRCUIT.	CTR 18" AFF
	DUPLEX RECEPTACLE, FLOOR MOUNTED	
D	DOUBLE DUPLEX RECEPTACLE, FLOOR MOUNTED 'D' (IF SHOWN) INDICATES POWER AND DATA IN BOX.	
	DUPLEX RECEPTACLE, SPLIT WIRED – TOP HALF SWITCHED	CTR 18" AFF
	DUPLEX RECEPTACLE, CEILING MOUNTED	
	PEDESTAL TYPE DUPLEX RECEPTACLE	
A	SPECIAL RECEPTACLE: 30A, 1P, 3W, 125V, NEMA L5–30R	CTR 18" AFF
B	SPECIAL RECEPTACLE: 50A, 2P, 3W, 250V, NEMA L6–50R	CTR 18" AFF
C	SPECIAL RECEPTACLE: 20A, 3P, 4W, 208/120V NEMA 14–20	CTR 18" AFF
D	SPECIAL RECEPTACLE: 30A, 3P, 4W, 208V NEMA 15–30	CTR 18" AFF
A	SPECIAL RECEPTACLE: FLOOR–BOX MOUNTED, 30A, 1P, 3W, 125V, NEMA L5–30R	
B	SPECIAL RECEPTACLE: FLOOR–BOX MOUNTED, 50A, 2P, 3W, 250V, NEMA L6–50R	
A	PEDESTAL TYPE SPECIAL RECEPTACLE, NEMA 6–20R	
	DOUBLE DUPLEX RECEPTACLE	CTR 18" AFF
	RECEPTACLE MOUNTED 6" ABOVE BACK SPLASH OR COUNTER	
GFI	GROUND FAULT INTERRUPTER TYPE RECEPTACLE	BOD 18" AFF
H	RECEPTACLE OUTLET MOUNTED HIGH	CTR 84" AFF
IG	ISOLATED GROUND RECEPTACLE	BOD 18" AFF
	DUPLEX RECEPTACLE AT 54" AFF	CTR 54" AFF
P	DUPLEX RECEPTACLE FOR PAY PHONE	CTR 54" AFF
C	DUPLEX RECEPTACLE FOR CART RECHARGE	CTR 36" AFF
C	SIMPLEX RECEPTACLE FOR CART RECHARGE	CTR 36" AFF
	TELEVISION RECEPTACLE	CTR 72" AFF
H	TELEVISION RECEPTACLE	CTR 18" BFC
CH	CLOCK HANGER OUTLET	CTR 84" AFF
'C' 'C'	PROGRAM CLOCK OUTLET – SINGLE FACE, DOUBLE FACE	CTR 84" AFF
EPO	EMERGENCY POWER OFF SWITCH	TOD 48" AFF
J	JUNCTION BOX	
E	EQUIPMENT CONNECTION – SEE EQUIPMENT SCHED. ON SHEET E7.01	
H3	HEATER CONNECTION – NUMBER INDICATES KILOWATTS (3KW)	
	HEATER FAN – CEILING MOUNTED	
CB	ENCLOSED CIRCUIT BREAKER	
	NON–FUSED DISCONNECT SWITCH, 30A, 3P (UNLESS OTHERWISE NOTED)	
(40A)	FUSED DISCONNECT SWITCH – FUSE SIZE AS INDICATED (40A)	
	PANELBOARD	
	DISTRIBUTION PANELBOARD	
T	TRANSFORMER	

CIRCUIT DESIGNATIONS

LIGHTING — A # a

- FIXTURE TYPE
- *CIRCUIT DESIGNATION
- SWITCH DESIGNATION

POWER — #

- *CIRCUIT DESIGNATION

* SEE NOTES FOR PANEL DESIGNATIONS FOR EACH AREA.

SPECIAL SYSTEMS SYMBOLS

SYMBOL	DESCRIPTIONS	MH (UON)
30	FIRE ALARM FLASHING STROBE LIGHT – WALL MOUNTED NUMBER INDICATES CANDELA RATING. IF NO NUMBER IS SHOWN RATING SHALL BE 15cd	GENERAL NOTE 5
30 F	WALL MOUNTED COMBINATION FIRE ALARM SPEAKER AND FLASHING STROBE. IF NO NUMBER IS SHOWN RATING SHALL BE 15cd	GENERAL NOTE 5
	CEILING MOUNTED COMBINATION SPEAKER AND FLASHING STROBE. NUMBER INDICATES CANDELA RATING. IF NO NUMBER IS SHOWN RATING SHALL BE 15cd	
	CEILING MOUNTED FIRE ALARM SPEAKER	
H	MAGNETIC DOOR HOLDER	
FAAP	REMOTE FIRE ALARM ANNUNCIATOR PANEL	
FACP	FIRE ALARM CONTROL PANEL	
RAM	RESCUE ASSISTANCE MASTER CONTROL PANEL	TOD 48" AFF
TP	FIRE ALARM TRANSPONDER	
RAR	RESCUE ASSISTANCE REMOTE STATION	TOD 48" AFF
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER	
DS DS	DOOR SOLENOID, ELECTRIC STRIKE – LOCKING DEVICE CONNECTION POINT	
F	FIRE ALARM PULL STATION	TOD 48" AFF
	HEAT DETECTOR	
AD	SMOKE DETECTOR (PHOTOELECTRIC), AB INDICATES AUDIBLE BASE, E INDICATES ELEVATOR CONTROLS	
	SMOKE DETECTOR (IONIZATION)	
	DUCT SMOKE DETECTOR	
ARC	FIRE ALARM SYSTEM ADDRESSABLE RELAY – CONTROL	
ARM	FIRE ALARM SYSTEM ADDRESSABLE RELAY – MONITOR	
RAL	FIRE ALARM SYSTEM DUCT SMOKE DETECTOR REMOTE ALARM/STATUS INDICATOR LIGHTS	
FS	FLOW SWITCH CONNECTION	
PS	PRESSURE SWITCH CONNECTION	
TS	TAMPER SWITCH CONNECTION	
CR	CARD READER	TOD 48" AFF
	TELEPHONE OUTLET	CTR 18" AFF
W	TELEPHONE OUTLET, WALL MOUNTED	CTR 54" AFF
	DATA/TELEPHONE OUTLET, UNSHADED AREA = DATA, SHADED AREA = VOICE, NUMERALS INDICATE QUANTITY OF WIRED JACKS	CTR 18" AFF
E	TELEPHONE OUTLET – EMERGENCY	TOD 54" AFF
	DATA OUTLET – PROVIDE BACKBOX WITH 2 DATA DROPS IN 1" CONDUIT UP TO ACCESSIBLE CEILING.	
	TELEVISION ANTENNA OUTLET	CTR 72" AFF
	ROUGH IN JUNCTION BOX FOR CCTV CAMERA	

ELECTRICAL DRAWING PRESENTATION

SYMBOL	DESCRIPTIONS
2	REVISION NUMBER 2
(2)	DRAWING NOTE NUMBER 2
(22A)	EQUIPMENT TAG NUMBER – REFER TO EQUIPMENT SCHEDULE
X / XX|XX	SECTION/ELEVATION IDENTIFICATION
X / XX	PART PLAN AND DETAIL IDENTIFICATION
	EXISTING LINE TYPE
	NEW ELECTRICAL WORK LINE TYPE
	FUTURE ELECTRICAL WORK LINE TYPE
	DEMOLITION LINE TYPE ON DEMOLITION DRAWINGS
	EQUIPMENT LOCATED OUTSIDE OF DRAWING AREA IN GENERAL DIRECTION OF ARROW HEAD

EQUIPMENT DESIGNATIONS

DESIGNATION	DESCRIPTIONS
SWGR	SWITCHGEAR
SWBD	SWITCHBOARD
PNL	PANELBOARD
MCC	MOTOR CONTROL CENTER
XFMR	TRANSFORMER

ELECTRICAL ABBREVIATIONS

A, AMP	– AMPERE	KVAR	– KILOVOLT AMPERES REACTIVE
AC	– ALTERNATING CURRENT	KW	– KILOWATTS
A/C	– AIR CONDITIONING	KWH	– KILOWATT HOUR
AFF	– ABOVE FINISHED FLOOR	LA	– LIGHTNING ARRESTOR
AHJ	– AUTHORITY HAVING JURISDICTION	LC	– LIGHTING CONTACTOR
AFG	– ABOVE FINAL GRADE	LTG	– LIGHTING
AHU	– AIR HANDLING UNIT	LTNG	– LIGHTNING
AIC	– AMPS INTERRUPTING CAPACITY	LP	– LIGHTING PANEL
ALT	– ALTERNATE	LRA	– LOCKED ROTOR AMPERES
ANN	– ANNUNCIATOR	MATV	– MASTER ANTENNA TELEVISION
APPROX	– APPROXIMATELY	MCB	– MAIN CIRCUIT BREAKER
ARCH	– ARCHITECT	MCC	– MOTOR CONTROL CENTER
ATC	– AUTOMATIC TEMPERATURE CONTROL	MEH	– METAL HALIDE
		MH	– MANHOLE, MOUNTING HEIGHT
ATS	– AUTOMATIC TRANSFER SWITCH	MLO	– MAIN LUGS ONLY
AWG	– AMERICAN WIRE GAUGE	MSP	– MOTOR STARTER PANEL
BAS	– BUILDING AUTOMATION SYSTEM	MTD	– MOUNTED
BFC	– BELOW FINISHED CEILING	MV	– MERCURY VAPOR
BFG	– BELOW FINISHED GRADE	NC	– NORMALLY CLOSED
BLDG	– BUILDING	NEC	– NATIONAL ELECTRICAL CODE
BOD	– BOTTOM OF DEVICE	NFSS	– NON–FUSED SAFETY SWITCH
C, CND	– CONDUIT	NO	– NUMBER, NORMALLY OPEN
CATV	– CABLE TELEVISION	OC	– ON CENTER
CB	– CIRCUIT BREAKER	OFCI	– OWNER FURNISHED, CONTRACTOR INSTALLED
CCTV	– CLOSED CIRCUIT TELEVISION		
CKT	– CIRCUIT	OFOI	– OWNER FURNISHED, OWNER INSTALLED
CL	– CURRENT LIMITING		
CLG	– CEILING	OH	– OVERHEAD
CONN	– CONNECT	Ø, PH	– PHASE
CPT	– CONTROL POWER TRANSFORMER	P	– POLE
CT	– CURRENT TRANSFORMER	PB	– PUSHBUTTON
CTR	– CENTER	PF	– POWER FACTOR
CU,CO	– COPPER	PFCC	– POWER FACTOR CORRECTION CAPACITOR
CX	– CONNECT TO EXISTING		
DC	– DIRECT CURRENT	PL	– PILOT LIGHT
DISC	– DISCONNECT	PLC	– PROGRAMMABLE LIGHTING CONTROL
DN	– DOWN	PNL	– PANEL
DP	– DISTRIBUTION PANEL	PP	– POWER PANEL
DPST	– DOUBLE POLE SINGLE THROW	PR	– PAIR
DPDT	– DOUBLE POLE DOUBLE THROW	PT	– POTENTIAL TRANSFORMER
DT	– DOUBLE THROW	PVC	– POLYVINYL CHLORIDE
DWG	– DRAWING	Pp	– PUMP
E, EMERG	– EMERGENCY	QTY	– QUANTITY
EA	– EACH	RCS	– REMOTE CONTROL SWITCH
EC	– ELECTRICAL CONTRACTOR	REC, RECPT	– RECEPTACLE
EF	– EXHAUST FAN	REQ'D	– REQUIRED
EH	– ELECTRIC HEATER	RFI	– RADIO FREQUENCY INTERFERENCE
ELEC	– ELECTRIC	RGS	– RIGID GALVANIZED STEEL
ELEV	– ELEVATION	RLA	– RUNNING LOAD AMPERES
ETR	– EXISTING TO REMAIN	RM	– ROOM
EX	– EXISTING	RVAT	– REDUCED VOLTAGE AUTO TRANSFORMER
EXP	– EXPOSED	RX	– REMOVE EXISTING
EWC	– ELECTRIC WATER COOLER	SC	– SURGE CAPACITOR
FR	– FRAME	SEC	– SECONDARY
FA	– FIRE ALARM	SN, S/N	– SOLID NEUTRAL
FABP	– FIRE ALARM BOOSTER PANEL	SP	– SURGE PROTECTION
FAAP	– FIRE ALARM ANNUNCIATOR PANEL	SPDT	– SINGLE POLE DOUBLE THROW
FACP	– FIRE ALARM CONTROL PANEL	SS	– SAFETY SWITCH
FBO	– FURNISHED BY OTHERS	SST	– SOLID STATE
FC	– FAN COIL	ST	– SINGLE THROW
FDR	– FEEDER	SW	– SWITCH
FLA	– FULL LOAD AMPERES	SWBD	– SWITCHBOARD
FLR	– FLOOR	T	– TAMPER RESISTANT
FU	– FUSED AND FUSIBLE	TBR	– TO BE REMOVED
FUSS	– FUSED SAFETY SWITCH	TC	– TIME CLOCK
FVR	– FULL VOLTAGE REVERSING	TEL, TELE	– TELEPHONE
FVNR	– FULL VOLTAGE NON–REVERSING	TOD	– TOP OF DEVICE
GEN	– GENERATOR, GENERAL	TRANS/XFMR	– TRANSFORMER
GFI	– GROUND FAULT INTERRUPTER	TH	– TUNGSTEN HALOGEN
GFR	– GROUND FAULT RELAY	TTB	– TELEPHONE TERMINAL BOARD
GRD	– GROUND	TW	– TWISTED
GRS	– GALVANIZED RIGID STEEL	TYP	– TYPICAL
HID	– HIGH INTENSITY DISCHARGE	UG	– UNDERGROUND
HOA	– HAND–OFF–AUTOMATIC	UH	– UNIT HEATER
HP	– HORSEPOWER	UON	– UNLESS OTHERWISE NOTED
HPS	– HIGH PRESSURE SODIUM	V	– VOLTS
HTR	– HEATER	VFC	– VARIABLE FREQUENCY CONTROLLER
HV	– HIGH VOLTAGE	W	– WATTS, WIRE
HZ	– HERTZ	W/	– WITH
IG	– ISOLATED GROUND	WP	– WEATHER–PROOF
JB	– JUNCTION BOX	XP	– EXPLOSION PROOF
KCMIL	– THOUSAND CIRCULAR MILS	2S1W	– 2 SPEED SINGLE WINDING
KV	– KILOVOLTS	2S2W	– 2 SPEED DOUBLE WINDING
KVA	– KILOVOLT AMPERES		

GENERAL NOTES:

1. THIS IS A STANDARD SYMBOL LIST, SOME SYMBOLS MAY NOT APPEAR ON THE ACCOMPANYING DRAWINGS.
2. REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS.
3. PLAN & SECTION SYMBOLS MAY ALSO BE USED ON RISER DIAGRAMS.
4. ON SINGLE LINE DIAGRAMS FOR 3 PHASE SYSTEMS, DEVICE QUANTITY = 3 UNLESS OTHERWISE NOTED.
5. DEVICE SHALL BE MOUNTED A MINIMUM OF 80" AFF TO BOTTOM OF DEVICE LENS AND BELOW THE FINISHED CEILING OF NOT LESS THAN 6".
6. UNLESS OTHERWISE NOTED ALL INTERIOR CONDUITS AND BOXES SHALL BE CONCEALED.

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Fayetteville Regional Airport Airline Terminal Improvements – Part 3

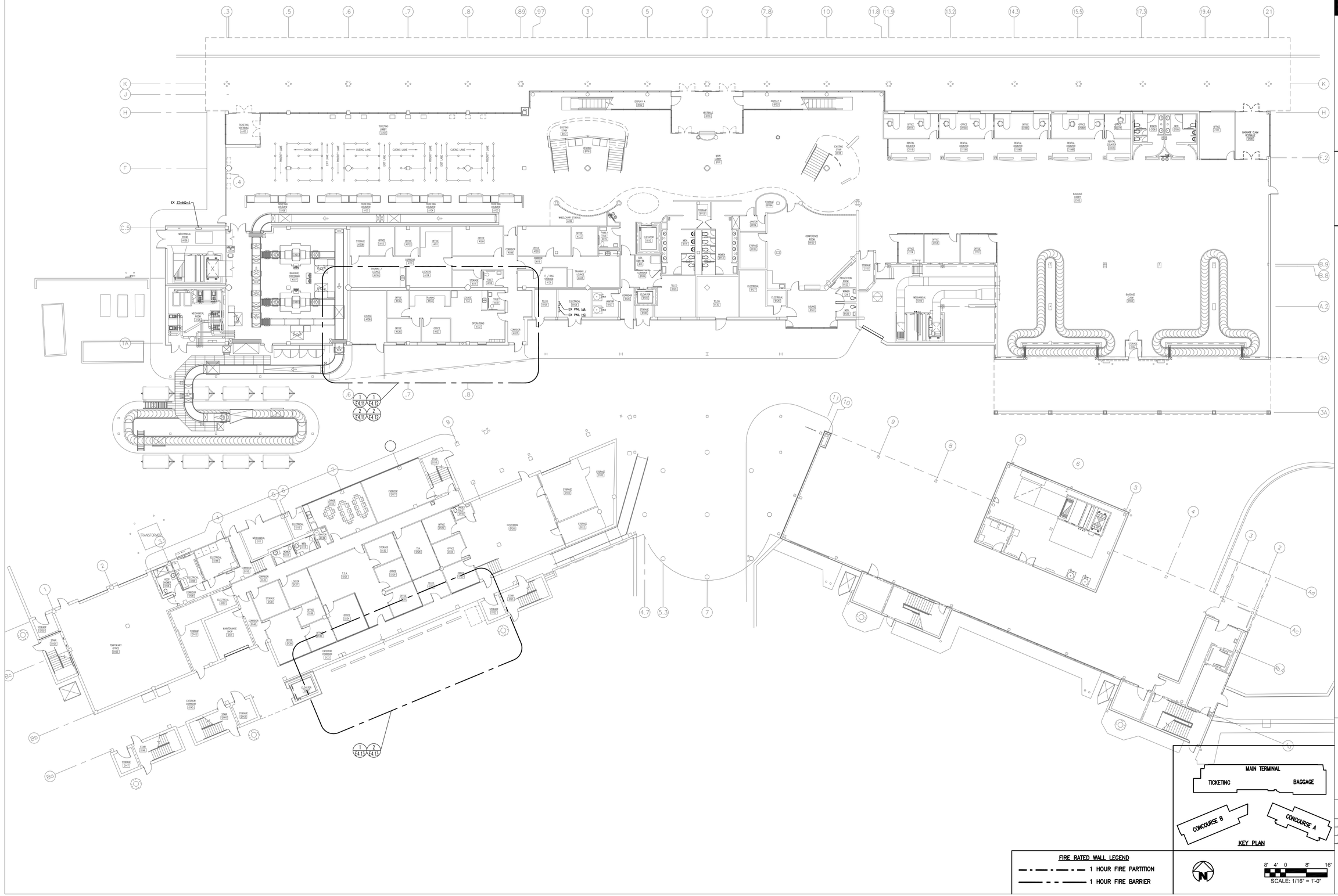
400 Airport Road
Fayetteville, North Carolina 28306

ELECTRICAL LEGEND AND ABBREVIATIONS

DRAWN BY: TMW
REVIEWED BY: CDC
DATE: 7/31/2023
PROJECT NO.: 02230515.A0
NOTES:

REVISIONS

SHEET NUMBER
E0.01



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Fayetteville Regional Airport Airline Terminal Improvements – Part 3

400 Airport Road
Fayetteville, North Carolina 28306

FIRST FLOOR OVERALL PLAN

FIRE RATED WALL LEGEND
- 1 HOUR FIRE PARTITION
- 1 HOUR FIRE BARRIER

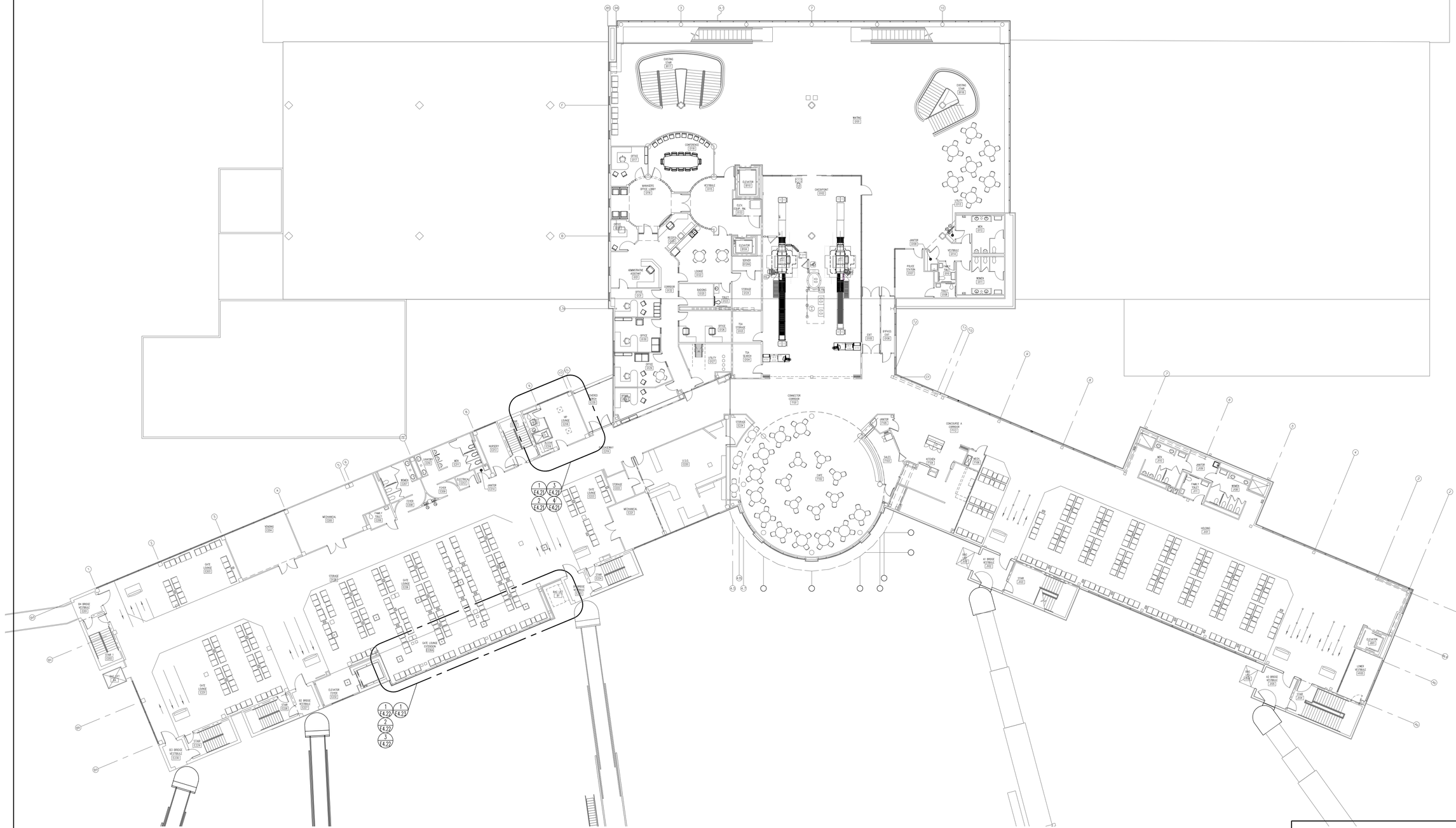
KEY PLAN

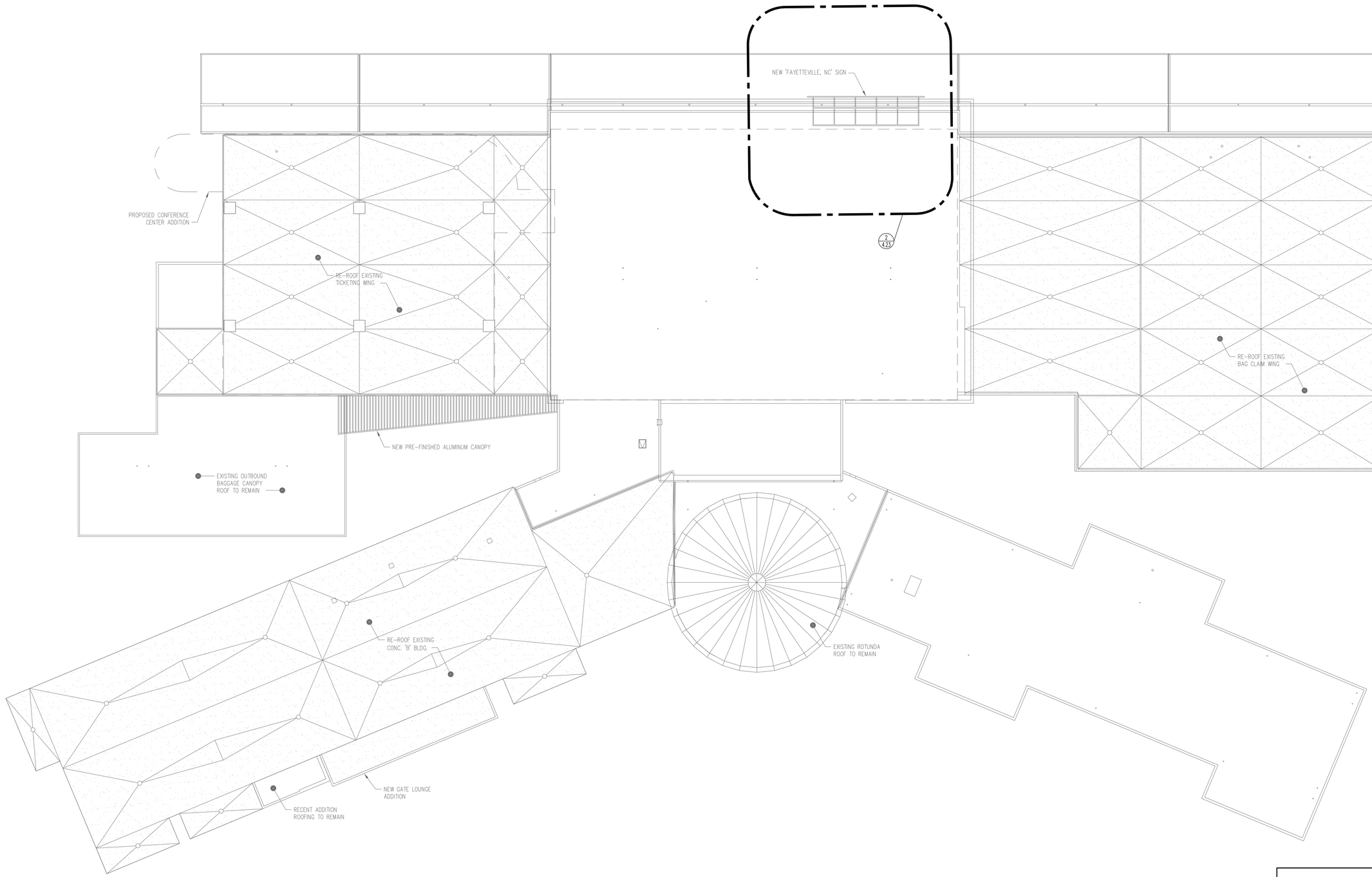
SCALE: 1/16" = 1'-0"

DRAWN BY: TMW
REVIEWED BY: CDC
DATE: 7/31/2023
PROJECT NO.: 02230515.A0
NOTES:

REVISIONS

SHEET NUMBER
E1.10

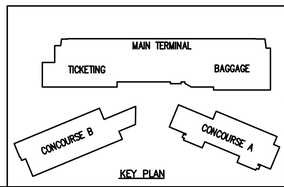

EXISTING STAIR B117
CONFERENCE B118
OFFICE B121
WARRIORS OFFICE LOBBY B116
VESTIBULE B123
ELEVATOR B113
ELEV. EQUIP. RM. B122
OFFICE B119
PILOTS B120
ELEVATOR B124
SERVER B124A
ADMINISTRATIVE ASSISTANT B101
LOUNGE B102
CORRIDOR B103
OFFICE B104
BAGGING B105
STORAGE B106A
OFFICE B106
OFFICE B107
OFFICE B108
TSA STORAGE B109
TSA SCREEN B110
UTILITY B111
WAITING B100
CHECKPOINT B102
EXISTING STAIR B115
UTILITY B121
JANITOR B122
VESTIBULE B114
POLICE STATION B107
MEN B112
WOMEN B111
TOILET B108
CONNECTOR CORRIDOR F101
STORAGE F104
JANITOR F105
CONCOURSE A CORRIDOR F102
CAFE F102
SALES F103
KITCHEN F104
MEN F106
WOMEN F107
JANITOR F108
STAIR F101
A1 BRIDGE VESTIBULE A100
A2 BRIDGE VESTIBULE A105
HOLDING A101
MEN A102
WOMEN A103
JANITOR A106
FAMILY TOILET A104
BABY CARE A105
ELEVATOR A107
LOWER VESTIBULE A108
B4 BRIDGE VESTIBULE E100
STAIR E100
VALET PARK
GATE LOUNGE E101
B3 BRIDGE VESTIBULE E102
STAIR E102
GATE LOUNGE E103
ELEVATOR POWER E103
B2 BRIDGE VESTIBULE E104
STAIR E104
GATE LOUNGE E105
GATE LOUNGE EXTENSION E105A
STORAGE E106
GATE LOUNGE E106
MECHANICAL E107
STAIR E107
GATE LOUNGE E108
MECHANICAL E109
GATE LOUNGE E110
STORAGE E111
GATE LOUNGE E112
MECHANICAL E113
GATE LOUNGE E114
MECHANICAL E115
GATE LOUNGE E116
MECHANICAL E117
GATE LOUNGE E118
MECHANICAL E119
GATE LOUNGE E120
MECHANICAL E121
GATE LOUNGE E122
MECHANICAL E123
GATE LOUNGE E124
MECHANICAL E125
GATE LOUNGE E126
MECHANICAL



FIRE RATED WALL LEGEND

1 HOUR FIRE PARTITION

1 HOUR FIRE BARRIER



KEY PLAN

8' 4' 0 8' 16'

SCALE: 1/16" = 1'-0"

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Fayetteville Regional Airport Airline Terminal Improvements – Part 3

400 Airport Road
Fayetteville, North Carolina 28306

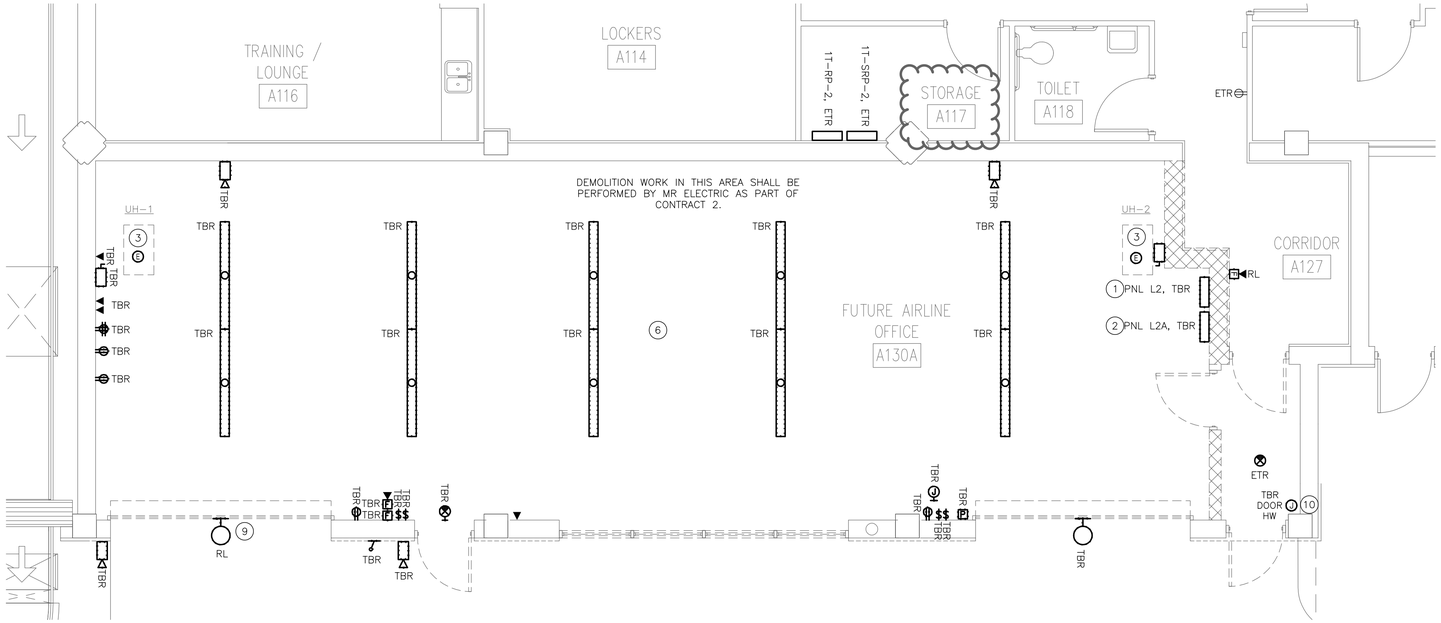
OVERALL ROOF PLAN

DRAWN BY: TMW
REVIEWED BY: CDC
DATE: 7/31/2023
PROJECT NO.: 02230515.A0
NOTES:

REVISIONS

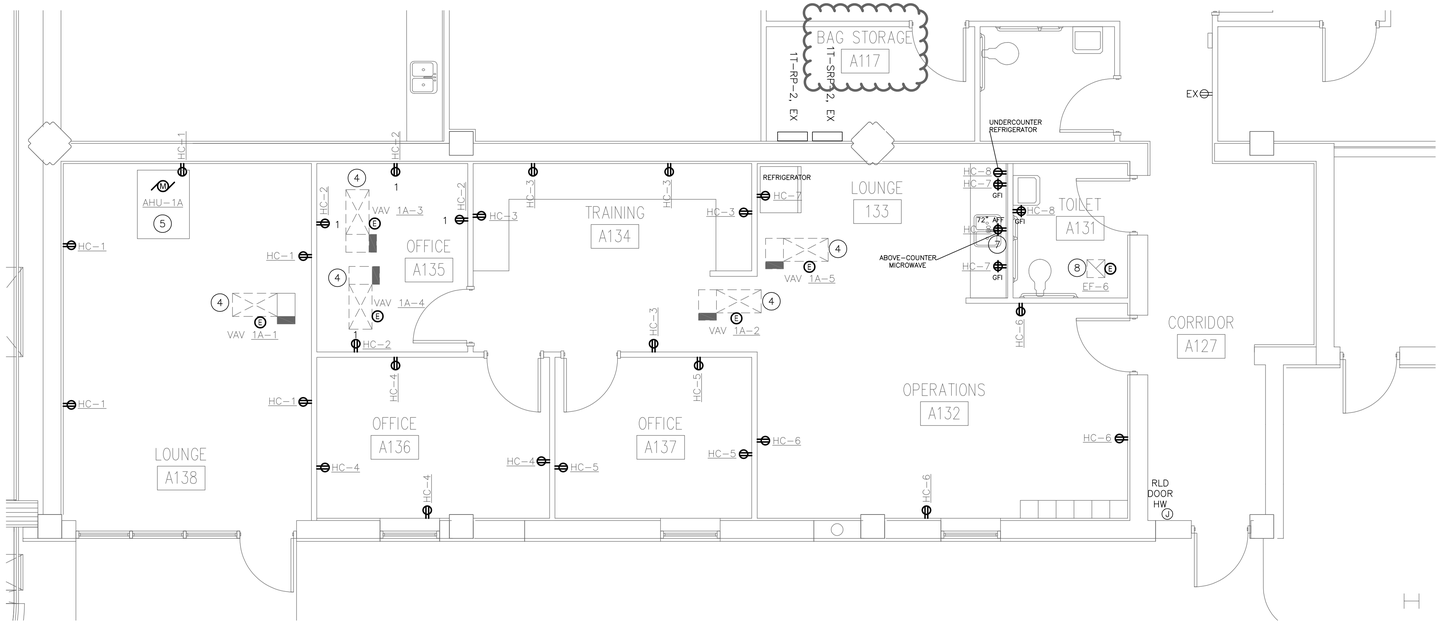
SHEET NUMBER

E1.30



AIRLINE OFFICE DEMOLITION PLAN - ELECTRICAL

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



AIRLINE OFFICE NEW WORK PLAN - POWER

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

GENERAL NOTES:

A. WIRE RECEPTACLES TO PANEL IT-RP-1 WITH 2#12 AND #12 GROUND IN 3/4" CONDUIT.

B. RECONNECT LIGHTING IN THIS AREA TO EXISTING CIRCUIT SERVING THIS AREA.

DRAWING NOTES:

1. ACTIVE CIRCUITS SHALL BE RELOCATED TO PANEL IT-SRP-2. SET JUNCTION BOX IN CEILING ABOVE PANEL RUN WIRE FROM NEW PANEL TO JUNCTION BOX ONE AT A TIME.
2. ACTIVE CIRCUITS SHALL BE RELOCATED TO PANEL IT-RP-2. SET JUNCTION BOX IN CEILING ABOVE PANEL RUN WIRE FROM NEW PANEL TO JUNCTION BOX ONE AT A TIME.
3. DISCONNECT POWER TO UNIT HEATER AND REMOVE. REMOVE BRANCH CIRCUIT BACK TO SOURCE.
4. PROVIDE 120V CONNECTION TO VAV BOXES. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR. INSTALL PER MANUFACTURER'S RECOMMENDATION.
5. PROVIDE 480V/3-PHASE CONNECTION TO NEW AIR HANDLING UNIT. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR. INSTALL PER MANUFACTURER'S RECOMMENDATION.
6. POWER SHALL BE DISCONNECTED. EXISTING LIGHTING FIXTURES TO BE REMOVED BY DEMOLITION CONTRACTOR (MR ELECTRIC). EXISTING BRANCH CIRCUIT SHALL BE MAINTAINED FOR RE-USE UNDER NEW WORK.
7. PROVIDE RECEPTACLE FOR ABOVE-COUNTER MICROWAVE WITH CASEWORK PRIOR TO INSTALLATION.
8. PROVIDE 120V CONNECTION FOR EXHAUST FAN. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR. INSTALL PER MANUFACTURER'S RECOMMENDATION.
9. DISCONNECT POWER TO EXISTING LIGHTING FIXTURE. MAINTAIN LIGHTING FIXTURE AND BRANCH CIRCUIT FOR RE-USE UNDER NEW WORK. EXTEND BRANCH CIRCUIT TO NEW LOCATION.
10. CONNECTION FOR DOOR HARDWARE SHALL BE RELOCATED WITH DOOR SWING. SEE NEW PLAN BELOW FOR ADDITIONAL INFORMATION.

FIRE RATED WALL LEGEND

- 1 HOUR FIRE PARTITION
- 1 HOUR FIRE BARRIER

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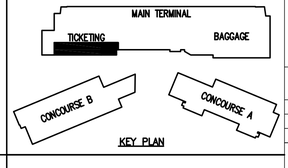
NORTH CAROLINA PROFESSIONAL SEAL 040724 08/28/2023 ENGINEER CRISTINA D. CALDWELL

Fayetteville Regional Airport Airline Terminal Improvements - Part 3

400 Airport Road
Fayetteville, North Carolina 28306

MAIN TERMINAL FIRST FLOOR ELECTRICAL ENLARGED PLANS

DRAWN BY: TMW
REVIEWED BY: CDC
DATE: 7/31/2023
PROJECT NO.: 02230515.A0
NOTES:

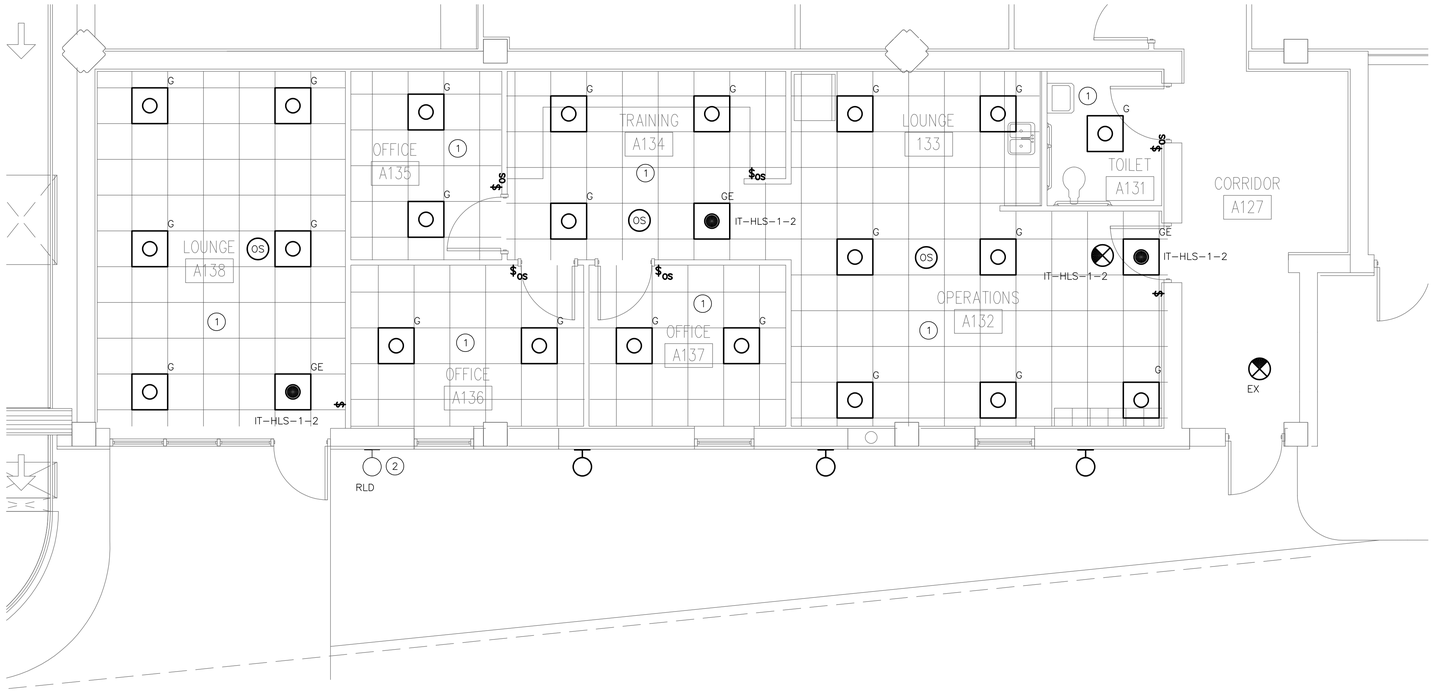


KEY PLAN

REVISIONS		
1	8/28/23	ADDENDUM #2
2		
3		

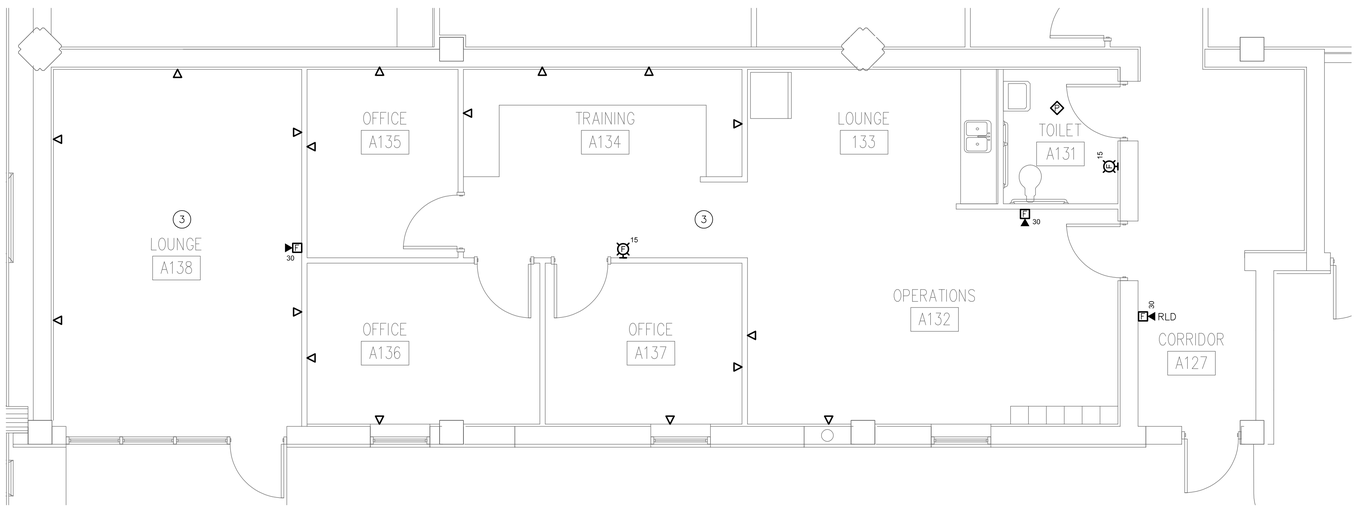
SCALE: 1/4" = 1'-0"

SHEET NUMBER
E4.11



AIRLINE OFFICE NEW WORK PLAN - LIGHTING

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



AIRLINE OFFICE NEW WORK PLAN - SPECIAL SYSTEMS

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

GENERAL NOTES:

A. NOTIFY THE OWNER, IN WRITING, AT LEAST SEVEN (7) DAYS IN ADVANCE OF ALL REQUIRED SHUTDOWNS OF ELECTRICAL SERVICE, OR OTHER UTILITIES. UPON WRITTEN RECEIPT OF APPROVAL FROM OWNER, SHUTDOWNS SHALL BE PERFORMED DURING HOURS AS DIRECTED BY THE OWNER AND SHALL BE ACCOMPLISHED AT NO ADDITIONAL CONTRACT COST. AT THE END OF EACH SHUT DOWN ALL SERVICES SHALL BE RESTORED.

B. WHEN WORKING IN AND AROUND THE EXISTING BUILDING, EXTREME CARE SHALL BE EXERCISED WITH REGARD TO PROTECTION OF THE EXISTING STRUCTURE AND PLUMBING, MECHANICAL AND ELECTRICAL SERVICES WHICH WILL REMAIN. REPAIR, REPLACE, OR RESTORE TO THE SATISFACTION OF THE OWNER ALL EXISTING WORK DAMAGED IN THE PERFORMANCE OF DEMOLITION AND/OR NEW WORK.

C. EXISTING EQUIPMENT SIZES NOTED ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND ARE NOT WARRANTED TO BE CORRECT. CONTRACTOR SHALL VERIFY ALL SIZES IN THE FIELD IF THEY EFFECT HIS WORK.

D. PATCH TO MATCH EXISTING ALL NEW AND EXISTING OPENINGS AND WALLS, CEILINGS, ROOF, AND FLOOR SURFACES DAMAGED OR CREATED BY DEMOLITION WORK. PATCHING WHERE POSSIBLE SHALL MATCH EXISTING ADJACENT SURFACES AS TO THICKNESS, TEXTURES MATERIALS, AND COLOR. ALL PATCHING SHALL BE PERFORMED TO THE SATISFACTION OF THE ARCHITECT AND AT NO ADDITIONAL CONTRACT COST.

E. EXISTING ARCHITECTURAL DRAWINGS AND MEP DRAWINGS DO NOT INDICATE RATED WALLS IN THE SCOPES OF WORK. THE EXTERIOR WALLS ARE BLOCK TYPE, BUT THE WALLS BETWEEN THE CORRIDOR AND CLASSROOMS ARE NOT RATED.

F. EC SHALL CONFIRM EXISTING CONDITIONS AND LOAD PRIOR TO PERFORMING WORK. REPORT ANY DISCREPANCIES BACK TO ENGINEER.

G. ELECTRICAL DEVICES AND SYMBOLOGY DENOTED 'EX' ARE EXISTING POWERING DEVICES.

H. EC SHALL PROVIDE TYPEWRITTEN, UPDATED PANEL DIRECTORY FOR ALL AFFECTED PANELS WITHIN THE SCOPE OF THIS PROJECT IN ACCORDANCE TO NEC 408.4.A.

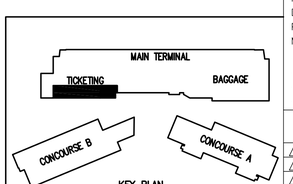
DRAWING NOTES:

1. LIGHTING FIXTURES IN THIS ROOM SHALL BE CONNECTED TO EXISTING NORMAL POWER BRANCH CIRCUIT PREVIOUSLY SERVING THIS AREA. UNLESS OTHERWISE NOTED ON PLAN.
2. RECONNECT TO EXISTING BRANCH CIRCUIT SERVING EXTERIOR LIGHTING FIXTURES. MAKE ALL FINAL CONNECTIONS TO MATCH EXISTING.
3. FOR ALL DATA OUTLETS IN THIS SUITE RUN DATA CABLES BACK TO ROOM B129. DO NOT TERMINATE CABLES. MATCH EXISTING CABLE TYPE, PROVIDE 20' EXTRA CABLE, COIL UP AT CEILING FOR FUTURE TERMINATION.

FIRE RATED WALL LEGEND

1 HOUR FIRE PARTITION

1 HOUR FIRE BARRIER



KEY PLAN

2' 0 2' 4'
SCALE: 1/4" = 1'-0"

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Fayetteville Regional Airport Airline Terminal Improvements - Part 3

400 Airport Road
Fayetteville, North Carolina 28306

MAIN TERMINAL FIRST FLOOR ELECTRICAL ENLARGED PLANS

DRAWN BY: TMW
REVIEWED BY: CDC
DATE: 7/31/2023
PROJECT NO.: 02230515.A0
NOTES:

REVISIONS

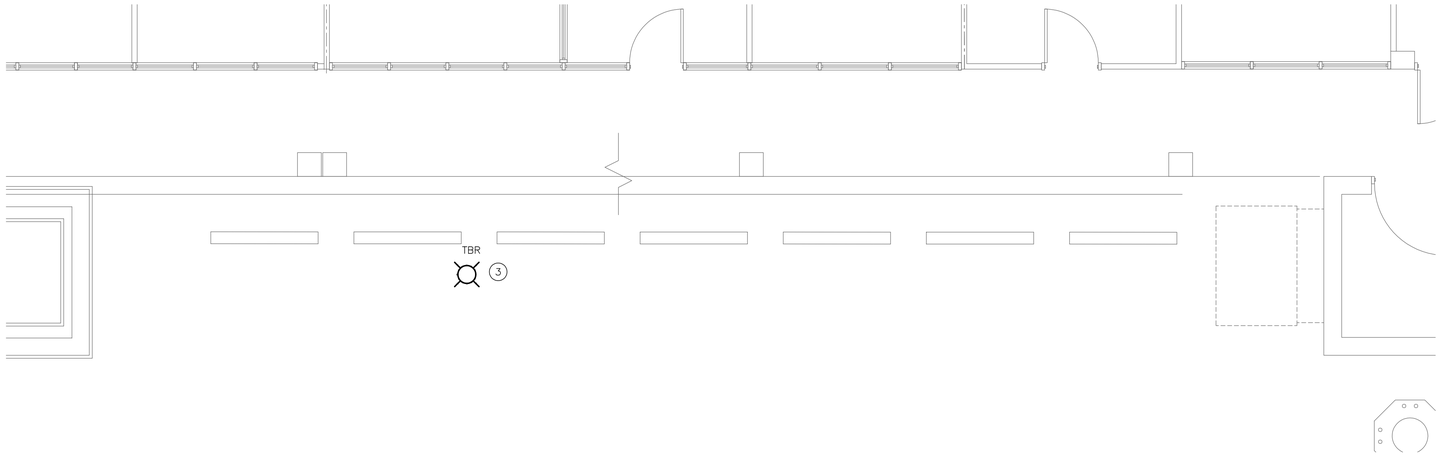
SHEET NUMBER
E4.12

GENERAL NOTES:

A. CONNECT LIGHTING IN THIS AREA TO EXISTING CIRCUIT SERVING THIS AREA.

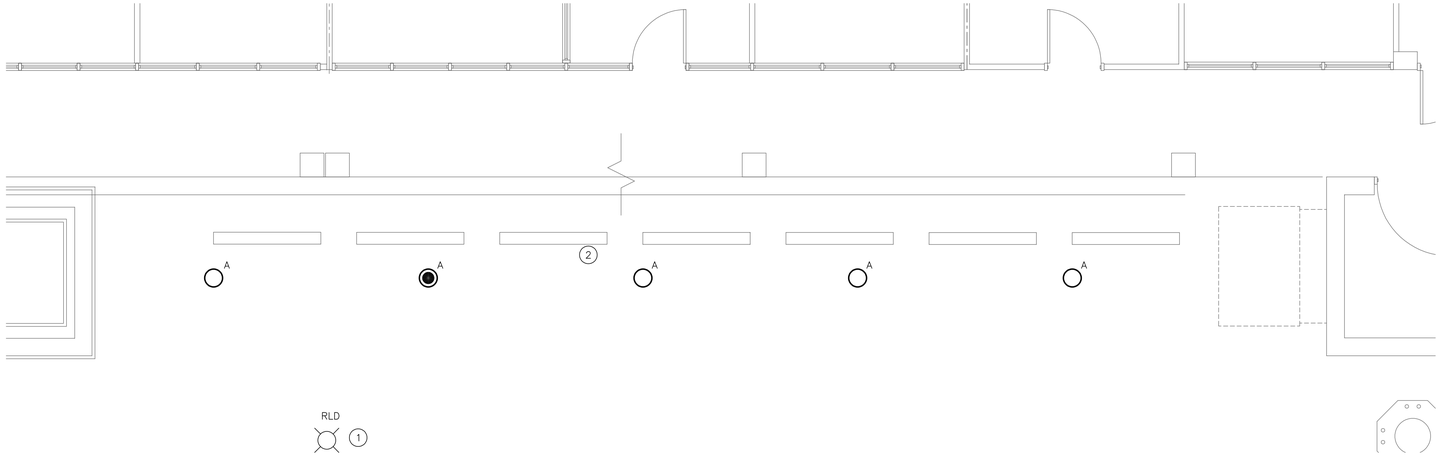
DRAWING NOTES:

1. RELOCATED LIGHT POLE. SEE POLE BASE DETAIL ON SHEET E501. SEE ARCHITECTURAL PLAN FOR EXACT LOCATION. MAKE ALL FINAL CONNECTIONS TO MATCH EXISTING POWER AND CONTROLS.
2. CONNECT LIGHTING IN THIS AREA TO EXISTING NORMAL OR EMERGENCY CIRCUIT AND CONTROLS SERVING THIS AREA.
3. LIGHT POLE SHALL BE RELOCATED AND RECONNECTED TO SAME CIRCUIT AND CONTROLS. SEE ARCHITECTURAL PLANS FOR ADDITIONAL DIRECTION.



N E1.10 E4.13 **CONCOURSE B FIRST FLOOR PLAN - DEMOLITION**

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

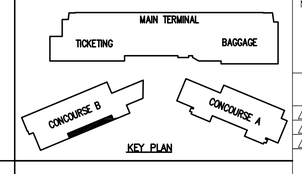


N E1.10 E4.13 **CONCOURSE B FIRST FLOOR NEW WORK PLAN - LIGHTING**

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

FIRE RATED WALL LEGEND

- 1 HOUR FIRE PARTITION
- 1 HOUR FIRE BARRIER



KEY PLAN

2' 0 2' 4'
SCALE: 1/4" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 040724 07/31/2023 ENGINEER CHRISTINA D. CALDWELL

Fayetteville Regional Airport Airline Terminal Improvements - Part 3

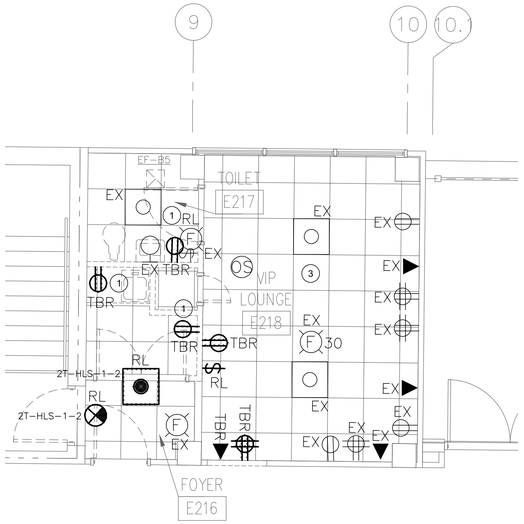
CONCOURSE B FIRST FLOOR ELECTRICAL ENLARGED PLANS

400 Airport Road
Fayetteville, North Carolina 28306

DRAWN BY: TMW
REVIEWED BY: CDC
DATE: 7/31/2023
PROJECT NO.: 02230515.A0
NOTES:

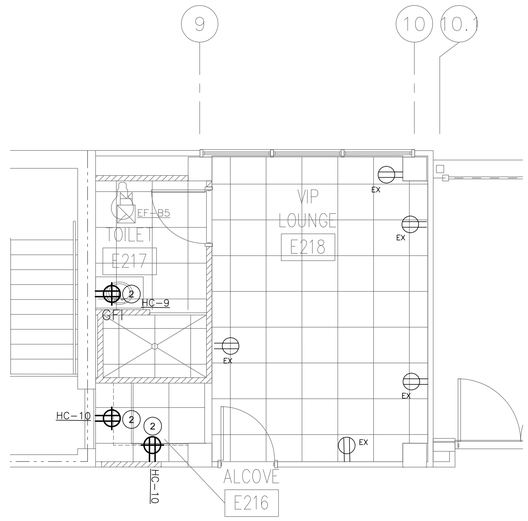
REVISIONS

SHEET NUMBER
E4.13



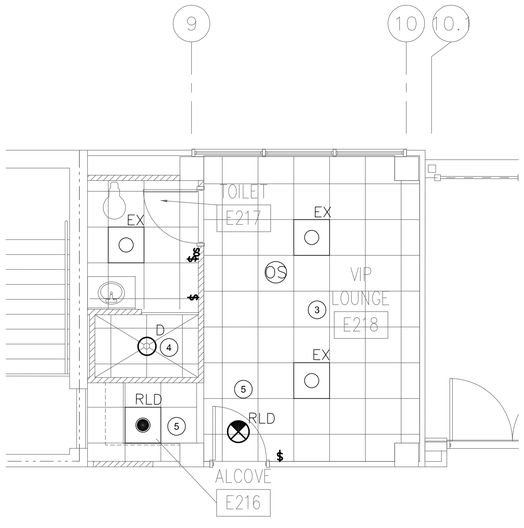
1 E1.20 E4.21 **LOUNGE DEMOLITION PLAN - ELECTRICAL**

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



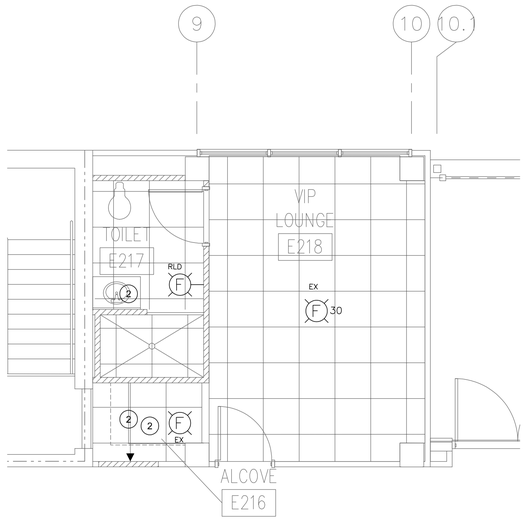
2 E1.20 E4.21 **LOUNGE NEW WORK PLAN - POWER**

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



3 E1.20 E4.21 **LOUNGE NEW WORK PLAN - LIGHTING**

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



4 E1.20 E4.21 **LOUNGE NEW WORK PLAN - SPECIAL SYSTEMS**

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

GENERAL NOTES:

A. NOTIFY THE OWNER, IN WRITING, AT LEAST SEVEN (7) DAYS IN ADVANCE OF ALL REQUIRED SHUTDOWNS OF ELECTRICAL SERVICE, OR OTHER UTILITIES. UPON WRITTEN RECEIPT OF APPROVAL FROM OWNER, SHUTDOWNS SHALL BE PERFORMED DURING HOURS AS DIRECTED BY THE OWNER AND SHALL BE ACCOMPLISHED AT NO ADDITIONAL CONTRACT COST. AT THE END OF EACH SHUT DOWN ALL SERVICES SHALL BE RESTORED.

B. WHEN WORKING IN AND AROUND THE EXISTING BUILDING, EXTREME CARE SHALL BE EXERCISED WITH REGARD TO PROTECTION OF THE EXISTING STRUCTURE AND PLUMBING, MECHANICAL AND ELECTRICAL SERVICES WHICH WILL REMAIN. REPAIR, REPLACE, OR RESTORE TO THE SATISFACTION OF THE OWNER ALL EXISTING WORK DAMAGED IN THE PERFORMANCE OF DEMOLITION AND/OR NEW WORK.

C. EXISTING EQUIPMENT SIZES NOTED ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND ARE NOT WARRANTED TO BE CORRECT. CONTRACTOR SHALL VERIFY ALL SIZES IN THE FIELD IF THEY EFFECT HIS WORK.

D. PATCH TO MATCH EXISTING ALL NEW AND EXISTING OPENINGS AND WALLS, CEILINGS, ROOF, AND FLOOR SURFACES DAMAGED OR CREATED BY DEMOLITION WORK. PATCHING WHERE POSSIBLE SHALL MATCH EXISTING ADJACENT SURFACES AS TO THICKNESS, TEXTURES MATERIALS, AND COLOR. ALL PATCHING SHALL BE PERFORMED TO THE SATISFACTION OF THE ARCHITECT AND AT NO ADDITIONAL CONTRACT COST.

E. EXISTING ARCHITECTURAL DRAWINGS AND MEP DRAWINGS DO NOT INDICATE RATED WALLS IN THE SCOPES OF WORK. THE EXTERIOR WALLS ARE BLOCK TYPE, BUT THE WALLS BETWEEN THE CORRIDOR AND CLASSROOMS ARE NOT RATED.

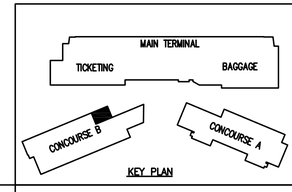
F. EC SHALL CONFIRM EXISTING CONDITIONS AND LOAD PRIOR TO PERFORMING WORK. REPORT ANY DISCREPANCIES BACK TO ENGINEER.

G. ELECTRICAL DEVICES AND SYMBOLOGY DENOTED 'EX' ARE EXISTING POWERING DEVICES.

H. EC SHALL PROVIDE TYPEWRITTEN, UPDATED PANEL DIRECTORY FOR ALL AFFECTED PANELS WITHIN THE SCOPE OF THIS PROJECT IN ACCORDANCE TO NEC 408.4.A.

DRAWING NOTES:

1. DISCONNECT POWER TO RECEPTACLE TO BE REMOVED AND MAINTAIN BRANCH CIRCUIT FOR RE-USE UNDER NEW WORK.
2. CONNECT RECEPTACLE TO EXISTING BRANCH CIRCUIT PREVIOUSLY SERVING RECEPTACLES IN THIS ROOM/AREA.
3. DISCONNECT POWER TO LIGHTING FIXTURES IN THIS ROOM. MAINTAIN BRANCH CIRCUIT FOR RE-USE UNDER NEW WORK.
4. LIGHTING FIXTURES IN THIS ROOM SHALL BE CONNECTED TO EXISTING NORMAL POWER BRANCH CIRCUIT PREVIOUSLY SERVING THIS AREA. UNLESS OTHERWISE NOTED ON PLAN.
5. LIGHTING FIXTURES IN THIS ROOM SHALL BE CONNECTED TO EXISTING EMERGENCY POWER BRANCH CIRCUIT PREVIOUSLY SERVING THIS AREA.



KEY PLAN

FIRE RATED WALL LEGEND

1 HOUR FIRE PARTITION

1 HOUR FIRE BARRIER

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NORTH CAROLINA PROFESSIONAL SEAL 040724 07/31/2023 ENGINEER CHRISTINA D. CALDWELL

Fayetteville Regional Airport Airline Terminal Improvements – Part 3

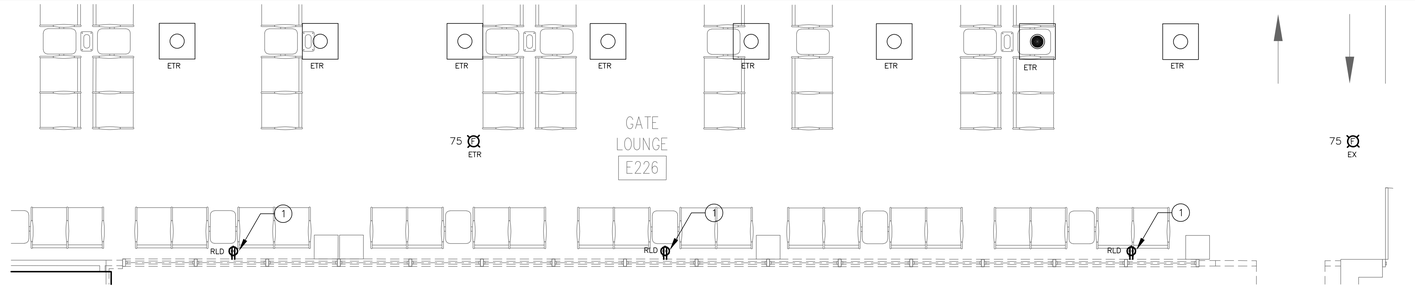
400 Airport Road
Fayetteville, North Carolina 28306

CONCOURSE B SECOND FLOOR ELECTRICAL ENLARGED PLANS

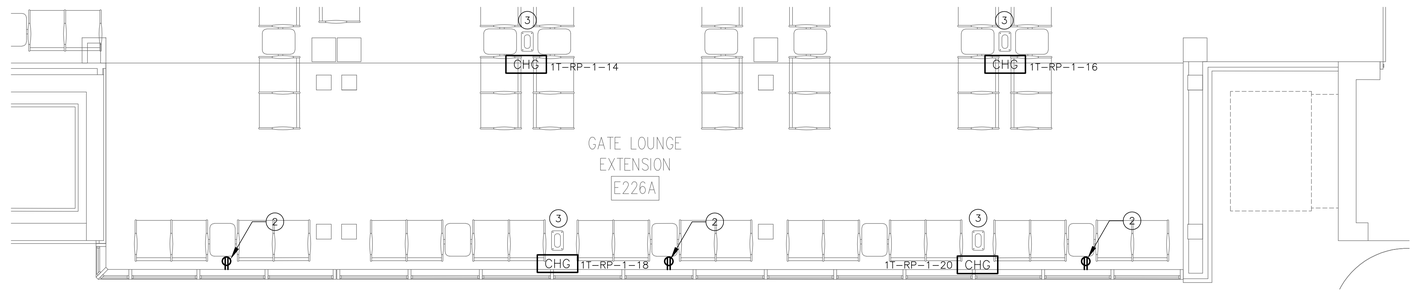
DRAWN BY: TMW
REVIEWED BY: CDC
DATE: 7/31/2023
PROJECT NO.: 02230515.A0
NOTES:

REVISIONS

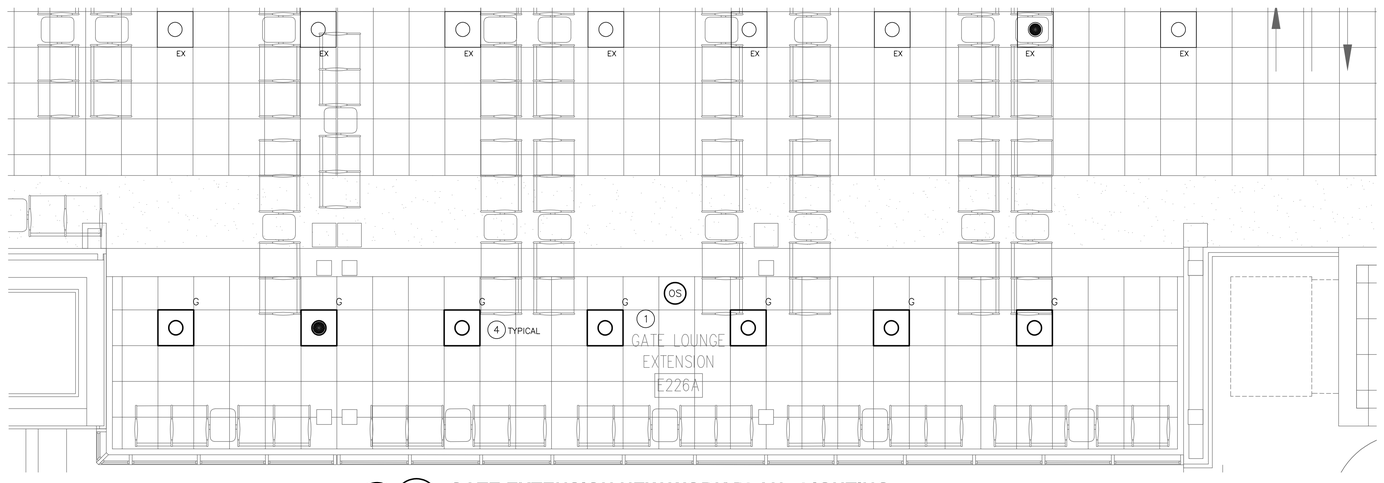
SHEET NUMBER
E4.21



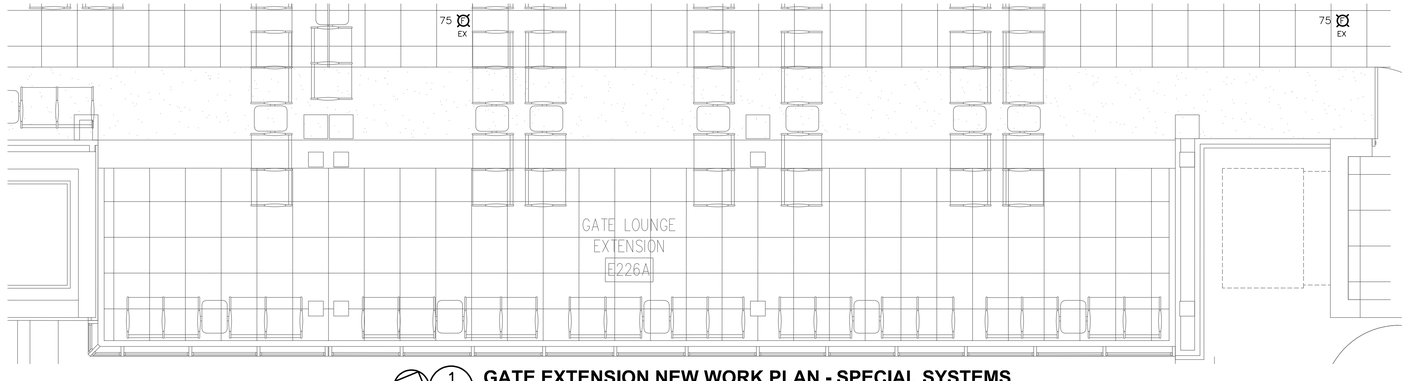
1 E1.20/E4.22 **GATE EXTENSION DEMOLITION PLAN - ELECTRICAL**



2 E1.20/E4.22 **GATE EXTENSION NEW WORK PLAN - POWER**



3 E1.20/E4.22 **GATE EXTENSION NEW WORK PLAN - LIGHTING**



1 E1.20/E4.22 **GATE EXTENSION NEW WORK PLAN - SPECIAL SYSTEMS**

GENERAL NOTES:

A. NOTIFY THE OWNER, IN WRITING, AT LEAST SEVEN (7) DAYS IN ADVANCE OF ALL REQUIRED SHUTDOWNS OF ELECTRICAL SERVICE, OR OTHER UTILITIES. UPON WRITTEN RECEIPT OF APPROVAL FROM OWNER, SHUTDOWNS SHALL BE PERFORMED DURING HOURS AS DIRECTED BY THE OWNER AND SHALL BE ACCOMPLISHED AT NO ADDITIONAL CONTRACT COST. AT THE END OF EACH SHUT DOWN ALL SERVICES SHALL BE RESTORED.

B. WHEN WORKING IN AND AROUND THE EXISTING BUILDING, EXTREME CARE SHALL BE EXERCISED WITH REGARD TO PROTECTION OF THE EXISTING STRUCTURE AND PLUMBING, MECHANICAL AND ELECTRICAL SERVICES WHICH WILL REMAIN. REPAIR, REPLACE, OR RESTORE TO THE SATISFACTION OF THE OWNER ALL EXISTING WORK DAMAGED IN THE PERFORMANCE OF DEMOLITION AND/OR NEW WORK.

C. EXISTING EQUIPMENT SIZES NOTED ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND ARE NOT WARRANTED TO BE CORRECT. CONTRACTOR SHALL VERIFY ALL SIZES IN THE FIELD IF THEY EFFECT HIS WORK.

D. PATCH TO MATCH EXISTING ALL NEW AND EXISTING OPENINGS AND WALLS, CEILINGS, ROOF, AND FLOOR SURFACES DAMAGED OR CREATED BY DEMOLITION WORK. PATCHING WHERE POSSIBLE SHALL MATCH EXISTING ADJACENT SURFACES AS TO THICKNESS, TEXTURES MATERIALS, AND COLOR. ALL PATCHING SHALL BE PERFORMED TO THE SATISFACTION OF THE ARCHITECT AND AT NO ADDITIONAL CONTRACT COST.

E. EXISTING ARCHITECTURAL DRAWINGS AND MEP DRAWINGS DO NOT INDICATE RATED WALLS IN THE SCOPES OF WORK. THE EXTERIOR WALLS ARE BLOCK TYPE, BUT THE WALLS BETWEEN THE CORRIDOR AND CLASSROOMS ARE NOT RATED.

F. EC SHALL CONFIRM EXISTING CONDITIONS AND LOAD PRIOR TO PERFORMING WORK. REPORT ANY DISCREPANCIES BACK TO ENGINEER.

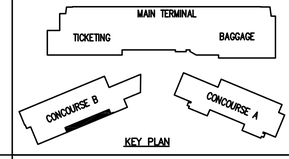
G. ELECTRICAL DEVICES AND SYMBOLOGY DENOTED 'EX' ARE EXISTING POWERING DEVICES.

H. EC SHALL PROVIDE TYPEWRITTEN, UPDATED PANEL DIRECTORY FOR ALL AFFECTED PANELS WITHIN THE SCOPE OF THIS PROJECT IN ACCORDANCE TO NEC 408.4.A.

DRAWING NOTES:

1. DISCONNECT, PRESERVE CIRCUIT, AND EXTEND TO NEW LOCATION FOR REUSE UNDER NEW WORK.
2. RECONNECT TO ORIGINAL CIRCUIT. CONNECT NEW LIGHTING FIXTURE TO EXISTING CONTROLS.
3. PROVIDE CONNECTION FOR OWNER PROVIDED CHARGING STATIONS. ALL FINAL CONNECTIONS PER MANUFACTURER'S RECOMMENDATION.
4. CONNECT NEW LIGHTING FIXTURES TO EXISTING NORMAL POWER BRANCH CIRCUIT AND CONTROLS SERVING THIS AREA.

FIRE RATED WALL LEGEND
1 HOUR FIRE PARTITION
1 HOUR FIRE BARRIER



KEY PLAN

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

GORDON JOHNSON
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NORTH CAROLINA PROFESSIONAL SEAL 040724 07/31/2023 ENGINEER CHRISTINA D. CALDWELL

Fayetteville Regional Airport Airline Terminal Improvements – Part 3

400 Airport Road
Fayetteville, North Carolina 28306

CONCOURSE B SECOND FLOOR ELECTRICAL ENLARGED PLANS

DRAWN BY: TMW
REVIEWED BY: CDC
DATE: 7/31/2023
PROJECT NO.: 02230515.A0
NOTES:

REVISIONS

SHEET NUMBER
E4.22

GENERAL NOTES:

A. NOTIFY THE OWNER, IN WRITING, AT LEAST SEVEN (7) DAYS IN ADVANCE OF ALL REQUIRED SHUTDOWNS OF ELECTRICAL SERVICE, OR OTHER UTILITIES. UPON WRITTEN RECEIPT OF APPROVAL FROM OWNER, SHUTDOWNS SHALL BE PERFORMED DURING HOURS AS DIRECTED BY THE OWNER AND SHALL BE ACCOMPLISHED AT NO ADDITIONAL CONTRACT COST. AT THE END OF EACH SHUT DOWN ALL SERVICES SHALL BE RESTORED.

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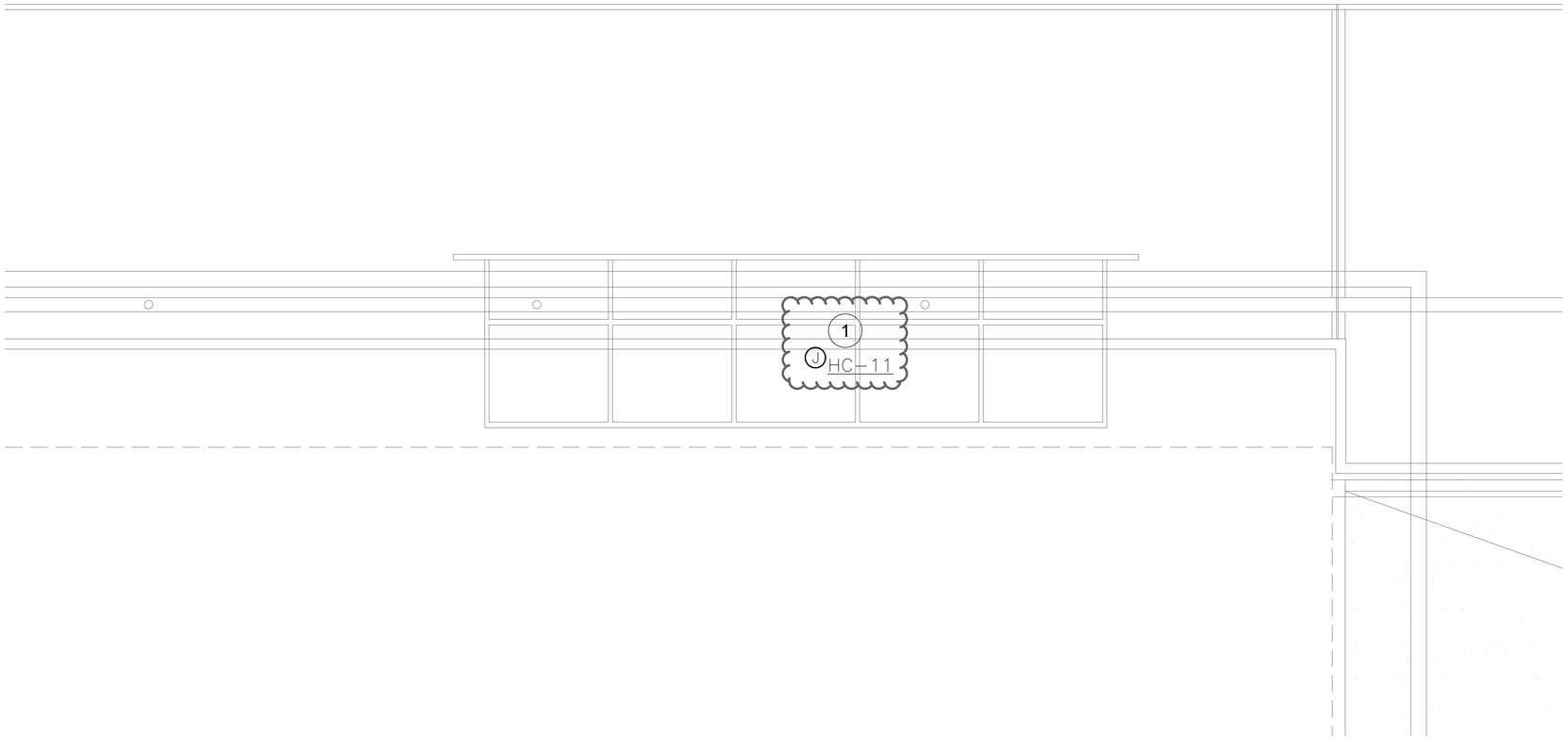
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H. EC SHALL PROVIDE TYPEWRITTEN, UPDATED PANEL DIRECTORY FOR ALL AFFECTED PANELS WITHIN THE SCOPE OF THIS PROJECT IN ACCORDANCE TO NEC 408.4.A.

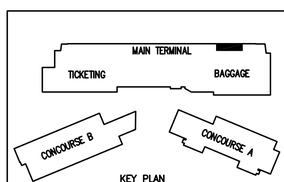
DRAWING NOTES:

(1) PROVIDE 120V CONNECTION WITH 2#12, 1#12G. IN 3/4" CONDUIT TO 1P-20A CIRCUIT FOR POWERED SIGN. INSTALL PER MANUFACTURER'S RECOMMENDATION. COORDINATE EXACT CONNECT AND LOCATION IN THE FIELD PRIOR TO PERFORMING WORK. PER ARCHITECT CONDUIT SHALL NOT BE EXPOSED IF POSSIBLE. SUBMIT CONDUIT ROUTING TO DESIGN TEAM FOR REVIEW PRIOR TO INSTALLATION.



1 E1.30/E4.23 **NEW FAYETTEVILLE NC SIGN - NEW WORK PLAN - POWER**

FIRE RATED WALL LEGEND
1 HOUR FIRE PARTITION
1 HOUR FIRE BARRIER



KEY PLAN

2' 0 2' 4'
SCALE: 1/4" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 040724 08/28/2023 ENGINEER CHRISTINA D. CALDWELL

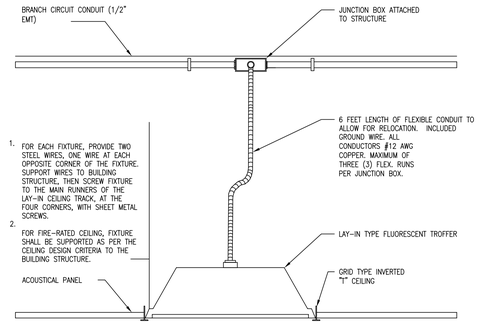
Fayetteville Regional Airport Airline Terminal Improvements - Part 3
400 Airport Road
Fayetteville, North Carolina 28306

MAIN TERMINAL PARTIAL ROOF ELECTRICAL PLAN

DRAWN BY: TMW
REVIEWED BY: CDC
DATE: 7/31/2023
PROJECT NO.: 02230515.A0
NOTES:

REVISIONS
1 8/28/23 ADDENDUM #2
2
3

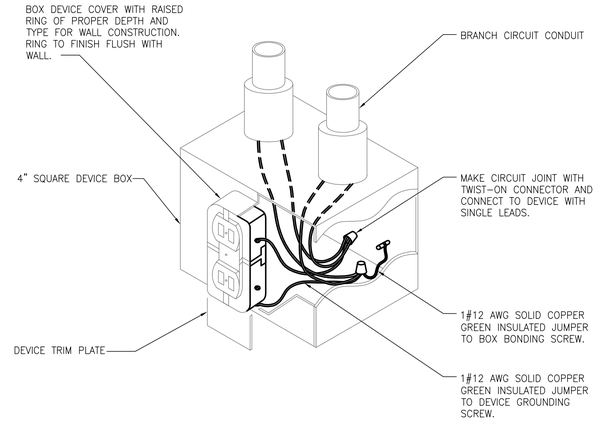
SHEET NUMBER
E4.23



LIGHTING FIXTURE MOUNTING DETAIL

SCALE: NONE

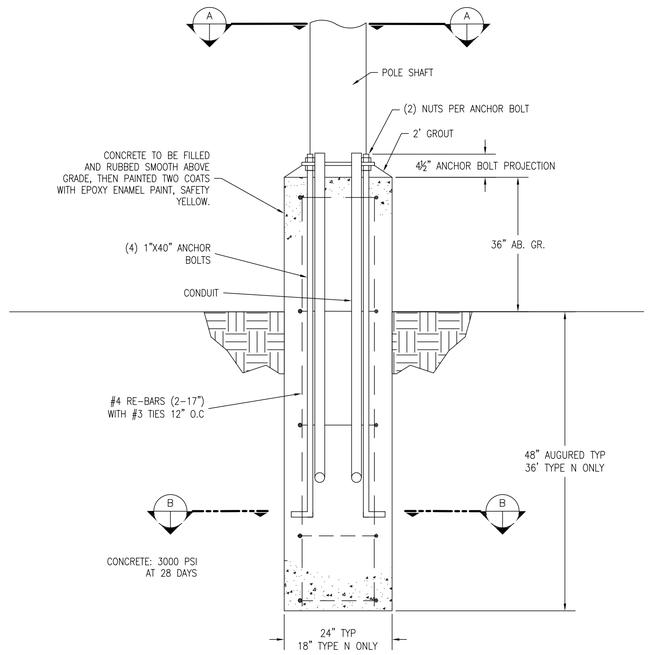
1



RECEPTACLE GROUNDING DETAIL

SCALE: NONE

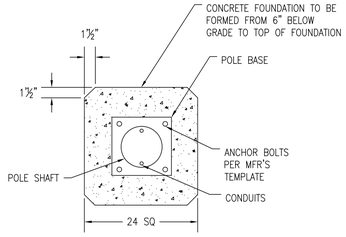
2



LIGHTING POLE FOUNDATION DETAIL

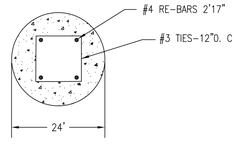
SCALE: NONE

3



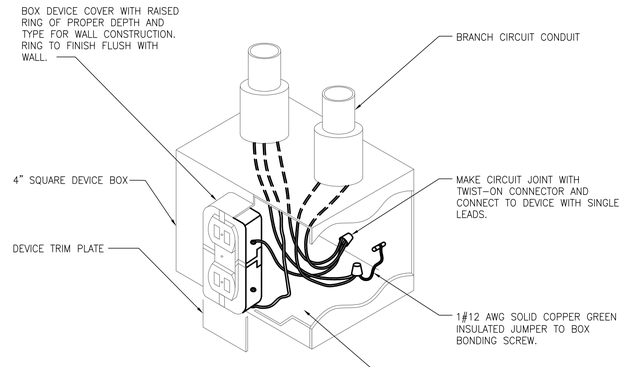
SECTION A-A

SCALE: NONE



SECTION B-B

SCALE: NONE



ISOLATED GROUND RECEPTACLE GROUNDING DETAIL

SCALE: NONE

4

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Fayetteville Regional Airport Airline Terminal Improvements - Part 3

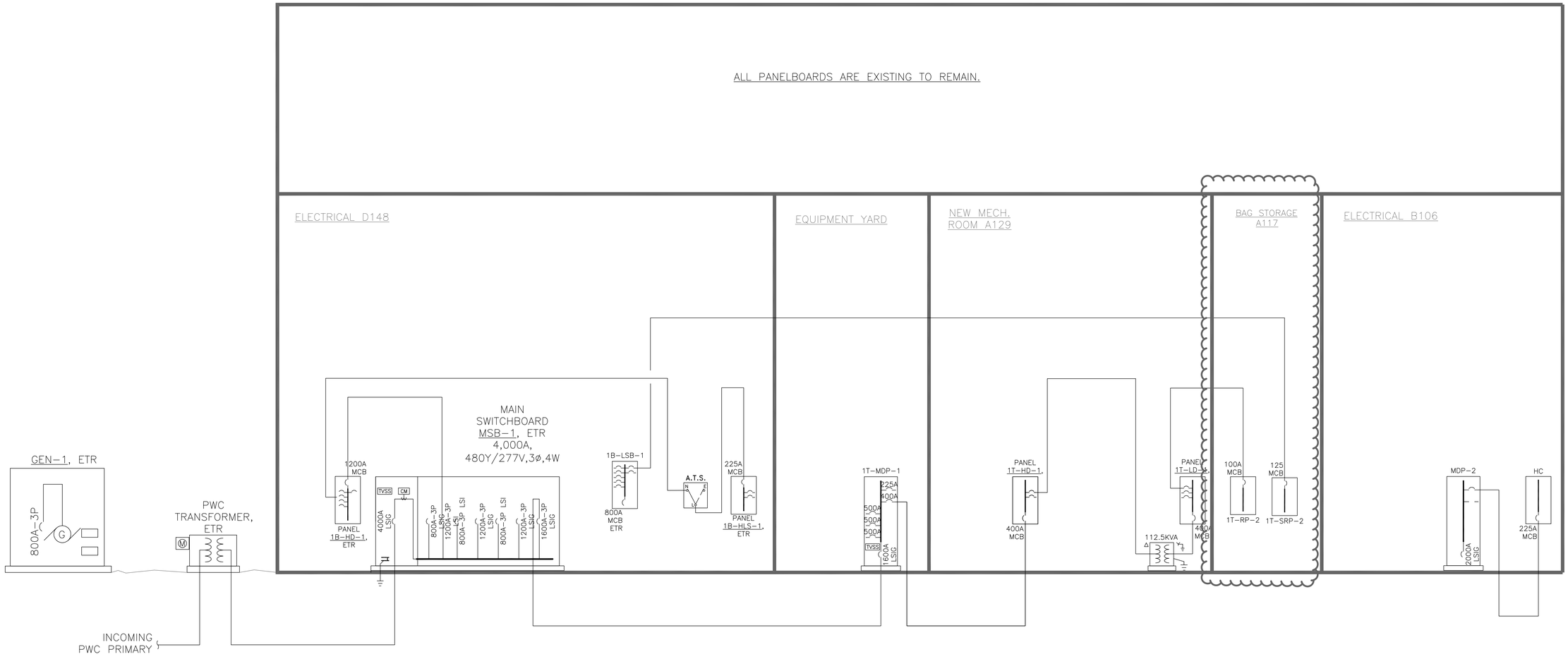
400 Airport Road
Fayetteville, North Carolina 28306

ELECTRICAL DETAILS

DRAWN BY: TMW
REVIEWED BY: CDC
DATE: 7/31/2023
PROJECT NO.: 02230515.A0
NOTES:

REVISIONS

SHEET NUMBER
E5.01



PARTIAL RISER DIAGRAM

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Fayetteville Regional Airport Airline Terminal Improvements – Part 3

400 Airport Road
Fayetteville, North Carolina 28306

PARTIAL RISER DIAGRAM

DRAWN BY: TMW
REVIEWED BY: CDC
DATE: 7/31/2023
PROJECT NO.: 02230515.A0
NOTES:

REVISIONS

1	8/28/23	ADDENDUM #2
2		
3		

SHEET NUMBER
E6.01

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMPS - SYLVANIA					MOUNTING	REMARKS	MANUFACTURER	TYPE
		TYPE	WATTAGE	QTY.	COLOR TEMP.	VOLTAGE				
A	12" SQUARE CAST-ALUMINUM SURFACE MOUNTED LED CANOPY FIXTURE	LED	41	1	50K	MVOLT	SURFACE	–	LITHONIA VRC LED 1 50K MVOLT	A
D	6" SHOWER LED DOWNLIGHT NON IC	LED	18	1	35K	MVOLT	RECESSED	CONFIRM VOLTAGE AND MOUNTING. PROVIDE ALL COMPONENTS NECESSARY TO COMPRISE A COMPLETE WORKING SYSTEM.	LITHONIA LIGHTING: LDN6 35/15 LW6AR LSS MVOLT GZ10	D
G	4" 2X2 RECESSED LED	LED	36.9	1	35K	–	RECESSED	CONFIRM VOLTAGE AND MOUNTING. PROVIDE ALL COMPONENTS NECESSARY TO COMPRISE A COMPLETE WORKING SYSTEM.	FINELITE HPR LED F 2X2 DCO SO 3500K SC	G

MOTOR EQUIPMENT AND CONTROL SCHEDULE

EQUIPMENT						SUPPLY					CONTROL DEVICES AS SHOWN ON PLANS BY ITEM NUMBER						
PLAN SYMBOL (M)											DISCONNECT SWITCH				MOTOR STARTER AND ACCESSORIES		
ITEM NUM.	NAME	LOCATION	HP/A/KW	PHASE	VOLT	PANEL	CIRCUIT BREAKER	POWER WIRING FROM PANEL TO CONTROL UNIT	POWER REQUIREMENT FROM CONTROL UNIT TO EQUIPMENT BY DIV. FURNISHING THE EQUIPMENT	REF. NOTES	SWITCH AMPS	FUSE SIZE	LOC.	NEMA SIZE		CONTROL DEVICE LOCATION	ITEM NUM.
AHU-1A	NEW AIR HANDLING UNIT	NEW LOUNGE A138	1/2.50/.810	3	480	1T-HD-1/13,15,17	15A-3P	3#12,#12G,3/4"C	3#12,#12G,3/4"C	R1	15	15	NR	1	K15,K17,K19	-	AHU-1A
EF-B5	NEW EXHAUST FAN - CSP-A200	TOILET E217	--	1	115	HC	15A-1P	2#12,3/4"C	2#12,3/4"C								
EF-6	NEW EXHAUST FAN - SP-LP0511-1	TOILET A131	--	1	115	HC	15A-1P	2#12,3/4"C	2#12,3/4"C								

KEYED MOTOR STARTER NOTES:

K6. COMBINATION REDUCED VOLTAGE MAGNETIC STARTER
K7. PACKAGED CONTROL UNIT
K14. MANUAL MOTOR STARTER WITH RELAY (RELAY TO ACCOMMODATE DDC CONTROL.)
K15. VARIABLE FREQUENCY DRIVE
K16. DUPLEX CONTROLLER WITH ALTERNATION CIRCUIT
K17. FIRE ALARM FAN SHUTDOWN
K18. PROVIDE DUPLEX RECEPTACLE FOR EQUIPMENT CONNECTION
K19. FURNISHED WITH EQUIPMENT

GENERAL NOTES:

A. REFER TO EQUIPMENT CONNECTION RESPONSIBILITIES DETAIL AND PROVIDE ALL DEVICES, EQUIPMENT AND WIRING REQUIRED UNDER AREA OF RESPONSIBILITY.
B. ITEM NUMBER INDICATES EQUIPMENT NUMBER
C. ALL CONTROL DEVICES ARE TO BE SURFACE MOUNTED UNLESS OTHERWISE NOTED
D. PROVIDE OVERLOADS, SIZE AS REQUIRED BY DIVISION SUPPLYING THE EQUIPMENT
E. "AU" INDICATES CONTROL DEVICE LOCATED AT UNIT
F. "NR" INDICATES NEAR UNIT
G. "NF" INDICATES NOT-FUSED
H. PROVIDE LAMACOD LABEL WITH EQUIPMENT DESIGNATION AND POWER SOURCE AT EACH DICONNECT SWITCH AND STARTER

REFERENCE NOTES:

R1. PROVIDE HACR TYPE BREAKER.
R2. PROVIDE SHUNT TRIP BREAKER.
R3. VERIFY EXACT REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.
R4. COORDINATE SUMP PUMP CONTROL PANEL LOCATION WITH INSTALLER PRIOR TO ROUGH-IN.
R5. PROVIDE (GFEP) GROUND FAULT EQUIPMENT PROTECTION TYPE BREAKER.

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040724 07/31/2023 CHRISTINA D. CALDWELL

Fayetteville Regional Airport Airline Terminal Improvements – Part 3
400 Airport Road
Fayetteville, North Carolina 28306

ELECTRICAL PANEL SCHEUDLES

DRAWN BY: TMW
REVIEWED BY: CDC
DATE: 7/31/2023
PROJECT NO.: 02230515.A0
NOTES:

REVISIONS

SHEET NUMBER
E7.01

PANELBOARD: 1B–HLS–1 MAINS: 150A MCB AMPS: 225A MIN AIC: 45000
LOCATION: EMERGENCY ELEC. D109 VOLTS: 480/277 VAC PHASE: 3 WIRES: 4
MOUNTING: SURFACE ENCL NEMA: 1 NOTES: EXISTING, LIFE SAFETY

SERVES	CB P	CB TA	SPPN	BUS A	BUS B	BUS C	SPPN	CB TA	CB P	SERVES
EMER LGHTG D106,D109,D148,D108,D127	1	20	1	0.16	.82		2			
EMER LGHTG MAIN TERMINAL ENTRANCE	1	20	3		0.21	.8	4	60	3	PANEL 2B–HLS–1
EMER LGHTG MAIN TERMINAL ENT /TELCO B1310B	1	20	5		0.17	.45	6			
EMER LGHTG TSA TEMP CHECKPOINT G124	1	20	7	0.25			8			
EMER LGHTG TSA TEMP CHECKPOINT G124	1	20	9		0.23		10	60	3	PANEL IT–HLS–1
SPARE	1	20	11				12			
SPARE	1	20	13				14		1	SPACE
SPACE	1		15				16		1	SPACE
SPACE	1		17				18		1	SPACE
SPACE	1		19				20		1	SPACE
SPACE	1		21				22		1	SPACE
SPACE	1		23				24		1	SPACE
SPACE	1		25				26		1	SPACE
SPACE	1		27				28		1	SPACE
SPACE	1		29				30		1	SPACE
SPACE	1		31				32		1	SPACE
SPACE	1		33				34		1	SPACE
SPACE	1		35				36		1	SPACE
SPACE	1		37				38		1	SPACE
SPACE	1		39				40		1	SPACE
SPACE	1		41				42		1	SPACE
				0.41	0.44	0.17				

PANELBOARD: 1T–HD–1 MAINS: 600A MCB AMPS: 600A MIN AIC: 65,000
LOCATION: NEW MECH. RM A129 VOLTS: 480Y/277 VAC PHASE: 3 WIRES: 4
MOUNTING: SURFACE ENCL NEMA: 1 NOTES: EXISTING

SERVES	CB P	CB TA	SPPN	BUS A	BUS B	BUS C	SPPN	CB TA	CB P	SERVES
			1	82.26			2			
SPARE	3	100	3		78.92		4	225	3	EX XFMR TO PANELBOARD 1T–LD–1
			5			82.12	6			
			7				8			
SPARE	3	90	9				10	100	3	PANEL IT–HP–1
			11				12			
			13	0.7			14			
AHU	**3**	**15**	15		0.7		16		3	SPACE
			17			0.7	18			
			19				20			
SPACE	3		21				22		3	SPACE
			23				24			
			25				26			
SPACE	3		27				28		3	SPACE
			29				30			
			31				32			
SPACE	3		33				34		3	SPACE
			35				36			
			37				38			
SPACE	3		39				40		3	SPACE
			41				42			
			43				44			
SPACE	3		45				46		3	SPACE
			47				48			
			49				50			
SPACE	3		51				52		3	SPACE
			53				54			
			55				56			
SPACE	3		57				58		3	SPACE
			59				60			
				82.26	78.92	82.12				

PANELBOARD: 1T–RP–2 MAINS: 100A MCB AMPS: XXX MIN AIC: 65,000
LOCATION: BAG STORAGE A117 VOLTS: 208Y/120 VAC PHASE: 3 WIRES: 4
MOUNTING: SURFACE ENCL NEMA: 1 NOTES: DESIGNATION 2

	SERVES	CB P	CB TA	SPPN	BUS A	BUS B	BUS C	SPPN	CB TA	CB P	SERVES
(1)	**RECPT – TICKET CTR A105**	1	20	1	.36	0.90		2	20	1	RECPT – A117, A118, A108
(1)	**RECPT – TICKET CTR A105**	1	20	3		.36	.18	4	20	1	RECPT – TV A114
(1)	**RECPT – TICKET CTR A105**	1	20	5		.36	.18	6	20	1	RECPT – TV A101
(1)	**RECPT – TICKET CTR A105**	1	20	7	.36	.18		8	20	1	RECPT – DOOR HW A101,6
(1)	**RECPT – TICKET CTR A105**	1	20	9	.36	0.72		10	20	1	RECPT – OFFICE A109
(1)	**RECPT – TICKET CTR A104**	1	20	11		.36	.1	12	20	1	DOOR HW A108
(1)	**RECPT – TICKET CTR A104**	1	20	13	.72	.72		14	20	1	RECPT – A113
	RECPT – OFFICE A112	1	20	15	.72	.18		16	20	1	RECPT – LOUNGE A114
	RECPT – OFFICE A111	1	20	17		0.90	.36	18	20	1	RECPT – TICK CTR A104
	RECPT – OFFICE A116	1	20	19	0.90	.11		20	20	1	EF–5
	RECPT – OFFICE A116	1	20	21	.72	.26		22	20	1	EF–B4 & B5
	RECPT – A116	1	20	23		0.36	1.00	24	20	1	RECPT – VENDING
	EF–B3	1	20	25	.11	1.00		26	20	1	RECPT – VENDING
	BAG ROOM WORKSTATION	1	20	27	.36	1.00		28	20	1	RECPT – VENDING
	BAG ROOM SCANNER	1	20	29		.18	0.36	30	20	1	RECPT – OFFICE A111
	SPARE	1	20	31	0.00	0.00		32	20	1	SPARE
	SPARE	1	20	33		0.00	0.00	34	20	1	SPARE
	SPARE	1	20	35	0.00		0.00	36	20	1	SPARE
	SPARE	1	20	37	0.00		0.00	38	20	1	SPARE
	SPARE	1	20	39	0.00		0.00	40	20	1	SPARE
		—	—	41		0.00	0.00	42	—	—	
					5.36	4.86	4.18				

PANELBOARD: 1C ELECTRICAL MAINS: MLO AMPS: 225A MIN AIC: 65,000
LOCATION: B106 VOLTS: 208Y/120 VAC PHASE: 3 WIRES: 4
MOUNTING: SURFACE ENCL NEMA: 1 NOTES: EXISTING

	SERVES	CB P	CB TA	SPPN	BUS A	BUS B	BUS C	SPPN	CB TA	CB P	SERVES	
(3)	**RECPTS – LOUNGE A138**	**1**	**20**	1	X			2	**20**	**1**	**RECPTS – OFFICE A135**	(3)
(3)	**RECPTS – TRAINING A134**	**1**	**20**	3		X	X	4	**20**	**1**	**RECPTS – OFFICE A136**	(3)
(3)	**RECPTS – OFFICE A137**	**1**	**20**	5	X		X	6	**20**	**1**	**RECPTS – OPERATIONS A132**	(3)
(3)	**RECPTS – LOUNGE 133**	**1**	**20**	7	X		X	8	**20**	**1**	**RECPTS – TOILET A131 & LOUNGE 133**	(3)
(3)	**RECPT – TOILET E217**	**1**	**20**	9	X		X	10	**20**	**1**	**RECPT – ALCOVE E216**	(3)
(3)	**POWERED SIGN**	**1**	**20**	11		**1.2**	X	12	**20**	**1**	**NEW EXHAUST FAN – EF–B5**	(3)
(3)	**NEW EXHAUST FAN – EF–6**	**1**	**20**	13	X	X		14	20	1	RECPT –	
	RECPT –	1	20	15	X		X	16	20	1	RECPT –	
	SPARE	1	20	17		X	X	18	20	1	SPARE	
	SPARE	1	20	19	X		X	20	20	1	SPARE	
	SPACE	1	—	21		X	X	22	—	1	SPACE	
	SPACE	1	—	23	X		X	24	—	1	SPACE	
	SPACE	1	—	25		X	X	26	—	1	SPACE	
	SPACE	1	—	27	X		X	28	—	1	SPACE	
	SPACE	1	—	29		X	X	30	—	1	SPACE	
	SPACE	1	—	31	X		X	32	—	1	SPACE	
	SPACE	1	—	33		X	X	34	—	1	SPACE	
	SPACE	1	—	35	X		X	36	—	1	SPACE	
	SPACE	1	—	37		X	X	38	—	1	SPACE	
	SPACE	1	—	39	X		X	40	—	1	SPACE	
	SPACE	—	—	41		X	X	42	—	—	SPACE	
					X	X	X					

PANELBOARD: 1T–SRP–2 MAINS: 125 A MCB AMPS: 225A MIN AIC: 65,000
LOCATION: BAG STORAGE A117 VOLTS: 208Y/120 VAC PHASE: 3 WIRES: 4
MOUNTING: SURFACE ENCL NEMA: 1 NOTES: EXISTING (DESIGNATION S2)

	SERVES	CB P	CB TA	SPPN	BUS A	BUS B	BUS C	SPPN	CB TA	CB P	SERVES	
(2)	**TICKETING CTR A105 RECEPTACLES**	**1**	**20**	1	0.72	0.80		2	20	1	EX TICKETING LOBBY A101 COL. F7 KIOSK RECEPTACLES	
(2)	**TICKETING CTR A105 RECEPTACLES**	**1**	**20**	3		0.36	0.40	4	20	1	EX TICKETING LOBBY A101 COL. F7 KIOSK RECEPTACLES	
(2)	**TICKETING CTR A105 RECEPTACLES**	**1**	**20**	5	0.72		0.80	6	20	1	EX TICKETING LOBBY A101 COL. F7 KIOSK RECEPTACLES	
(2)	**TICKETING CTR A105 RECEPTACLES**	**1**	**20**	7	0.36		0.40	8	20	1	EX TICKETING LOBBY A101 COL. F8 KIOSK RECEPTACLES	
(2)	**TICKETING CTR A105 RECEPTACLES**	**1**	**20**	9	0.36		0.80	10	20	1	EX TICKETING LOBBY A101 COL. F8 KIOSK RECEPTACLES	
(2)	**TICKETING CTR A104 RECEPTACLES**	**1**	**20**	11		0.36	0.80	12	20	1	EX TICKETING LOBBY A101 COL. F8 KIOSK RECEPTACLES	
(2)	**TICKETING CTR A104 RECEPTACLES**	**1**	**20**	13	0.36		0.80	14	30	2	EX BAG SCREENING (A107)	
(2)	**TICKETING CTR A104 RECEPTACLES**	**1**	**20**	15	0.72		0.80	16			CT–80DR (WEST UNIT)	
(2)	**TICKETING CTR A103 RECEPTACLES**	**1**	**20**	17	0.72		0.80	18	30	2	EX BAG SCREENING (A107)	
(2)	**TICKETING CTR A103 RECEPTACLES**	**1**	**20**	19	0.72		0.80	20			CT–80DR (EAST UNIT)	
	EX DOOR HW–A107 (NORTH)	1	20	21	0.13		3.00	22	40	2	EX BAG SCREENING (A107)	
	EX BAG SCREENING (A107) VIEWING STATION REC. (WEST)	1	20	23		0.72	3.00	24			SCANNER UPS (WEST UNIT)	
	EX BAG SCREENING (A107) VIEWING STATION REC. (EAST)	1	20	25	0.72		3.00	26	40	2	EX BAG SCREENING (A107)	
	EX OVERSIZE SCREEN(A106) LUGGAGE WAITING	1	20	27	0.50		3.00	28			SCANNER UPS (EAST UNIT)	
	EX DOOR HW–A107 (SOUTH)	1	20	29				30	40	2	SPARE	
	EX TICKETING COUNTER A103 RECEPTACLES	1	20	31	0.36		0.00	32				
	EX TICKETING COUNTER A103 RECEPTACLES	1	20	33	0.36		0.00	34	30	2	SPARE	
	SPACE	1	30	35				36				
	DATA RACK – OFFICE A111	**1**	**15**	37	**2.88**			38		1	SPACE	
	SPACE	1		39				40		1	SPACE	
	SPACE	—		41				42		1	SPACE	
					8.92	10.4	7.92					

GENERAL NOTES:

A. ELECTRICAL CONTRACTOR SHALL CONDUCT 30 DAY METER READINGS FOR ALL AFFECTED PANELBOARDS TO CONFIRM AVAILABLE CAPACITY DOES NOT EXCEED 80% OF PANEL RATING. IF ANY PANELS EXCEED 80% OF THE RATING CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD.

DRAWING NOTES:

(1) CIRCUITS RELOCATED FROM PANEL L2A. UTILIZE EXISTING 1P, 20A CIRCUIT BREAKER.

(2) CIRCUITS RELOCATED FROM PANEL L2. UTILIZE EXISTING 1P, 20A CIRCUIT BREAKER.

(3) PROVIDE 1P, 20A CIRCUIT BREAKER TO MATCH EXISTING GE TYPE NLAB PANEL MAKE AND CHARACTERISTICS.

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NORTH CAROLINA PROFESSIONAL SEAL 040724 08/28/2023 ENGINEER CHRISTINA D. CALDWELL

Fayetteville Regional Airport Airline Terminal Improvements – Part 3
400 Airport Road
Fayetteville, North Carolina 28306

ELECTRICAL PANEL SCHEDULES

DRAWN BY: TMW
REVIEWED BY: CDC
DATE: 7/31/2023
PROJECT NO.: 02230515.A0
NOTES:

REVISIONS

1	8/28/23	ADDENDUM #2
2		
3		

SHEET NUMBER
E7.02