

ST JOHNS CENTER

BYRNE HALL RENOVATION

2417 N TYLER ST
LITTLE ROC, AR 72207
WDD PROJECT: 25-043

100% CONSTRUCITION DOCUMENTS

6/9/26

WDD ARCHITECTS
ARCHITECTS - INTERIOR DESIGNERS - PLANNERS
5050 NORTHSHORE LANE
NORTH LITTLE ROCK, ARKANSAS 72118
PH. # 501-376-6681

LIVE OAK ENGINEERING
STRUCTURAL ENGINEER
LITTLE ROCK, ARKANSAS
PH. # 205-637-3115

PETTIT PETTIT CONSULTING ENGINEERS
MECHANICAL, ELECTRICAL, & PLUMBING ENGINEERS
201 EAST MARKHAM, SUITE 400
LITTLE ROCK, ARKANSAS 72201
PH. # 501-374-3731

WHITEIDATERS
CIVIL ENGINEER
24 RAHLING CIRCLE
LITTLE ROCK, AR 72223
PH. #5 01-821-1667

WDD ARCHITECTS

6/9/26

PROJECT #25-043

100% CONSTRUCITION DOCUMENTS

ST JOHNS CENTER BYRNE HALL RENOVATION

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PROJECT LOCATION



TESTED ASSEMBLIES

UL #	DESCRIPTION
U419	PARTITION WITH 1 HOUR FIRE RESISTANCE RATING
U411	PARTITION WITH 2 HOUR FIRE RESISTANCE RATING
U497	SHAFT WALL ASSEMBLY WITH 2 HOUR FIRE RESISTANCE RATING

REFER TO INTERIOR PARTITION TYPES FOR ADDITIONAL INFORMATION & DETAILS

WDD ARCHITECTS

ARCHITECTS-INTERIOR DESIGN-PLANNERS
5050 NORTHSHORE LANE
NORTH LITTLE ROCK, ARKANSAS 72118
PH. # (501)376-6681
EMAIL: wdd@wddarchitects.com

I HEREBY CERTIFY THAT THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BY ME, OR UNDER MY SUPERVISION. I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE PLANS AND SPECIFICATIONS ARE AS REQUIRED BY LAW AND IN COMPLIANCE WITH THE ARKANSAS FIRE PREVENTION CODE FOR THE STATE OF ARKANSAS.

SIGNATURE

WDD ARCHITECTS

REGISTERED ARCHITECT
BRITTENEE L. DELOACH
ARKANSAS
6/9/26

PROJECT TITLE
ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST
LITTLE ROC, AR 72207

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DATA SHEET

REVISIONS

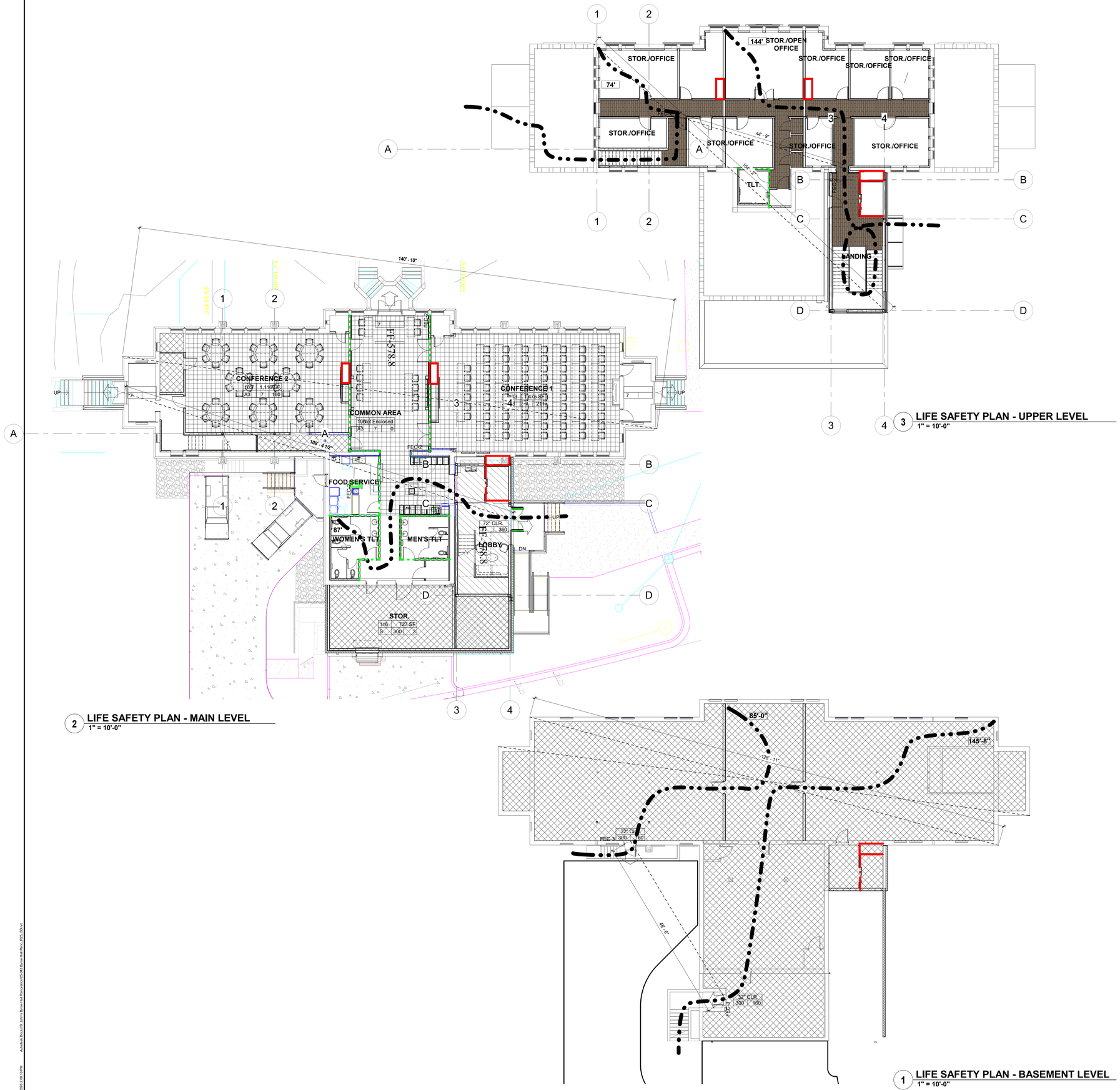
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3 **LIFE SAFETY PLAN - UPPER LEVEL**
1" = 10'-0"

2 **LIFE SAFETY PLAN - MAIN LEVEL**
1" = 10'-0"

1 **LIFE SAFETY PLAN - BASEMENT LEVEL**
1" = 10'-0"

CODE NOTES

PROJECT DESCRIPTION:
RENOVATING THE OVER 100 YEAR OLD BYRNE HALL LOCATED AT THE CATHOLIC DIOCESE OF LITTLE ROCK CAMPUS INTO A CONFERENCE CENTER ON THE MAIN LEVEL AND A OFFICE AND STORAGE SPACE ON THE UPPER LEVEL. THIS WILL INCLUDE BUILDING A NEW ADDITION FOR A ELEVATOR AND STAIR, ALONG WITH INSTALLING A SPRINKLER SYSTEM IN THE BUILDING.

APPLICABLE CODES:
INCLUDED BUT NOT LIMITED TO THE LATEST ADOPTED ADDITIONS OF THESE CODES AS AMENDED BY THE STATE OF **ARKANSAS**

- **2021 ARKANSAS FIRE PREVENTION CODE**
- **2020 NATIONAL ENERGY CODE OF ARKANSAS**
- **2009 IECC**
- **2018 ARKANSAS PLUMBING CODE**
- **2018 ARKANSAS FUEL GAS CODE**
- **2021 MECHANICAL CODE OF ARKANSAS**

TYPE OF CONSTRUCTION:
TYPE V-B-SM SPRINKLERED,
NUMBER OF STORIES: 2

OCCUPANCY CLASSIFICATION:
GROUP A OCCUPANCY - MAIN LEVEL USED FOR MEETING SPACE
GROUP B OCCUPANCY - UPPER LEVEL USED FOR OFFICE AND STORAGE SPACE
GROUP S OCCUPANCY - BASEMENT USED FOR STORAGE & MECHANICAL

OCCUPANT LOAD:
MAXIMUM NUMBER OF OCCUPANTS PER TABLE 1004.5 IBC (MAX. FLOOR AREA PER OCCUPANT}
ACCESSORY STORAGE AREAS & MECHANICAL EQUIPMENT (S): 300 GROSS
ASSEMBY (A-3) WITHOUT FIXED SEATS (CONCENTRATED): 7 NET
BUSINESS (B): 150 GROSS

BASEMENT:	6,029 SQ SF	STORAGE & MECHANICAL (S)	21
FIRST FLOOR:	7,096 SQ SF		
	3,598 SQ SF	ASSEMBLY (A-3)	514
	1,760 SQ SF	BUSINESS	12
	1,738 SQ SF	STORAGE	6
SECOND FLOOR:	3,879 SQ SF	BUSINESS (B)	26
TOTAL OCCUPLANT LOAD			**579**

ALLOWABLE AREA:
ALLOWABLE AREA BASED ON 506.2
ALLOWABLE AREA OF 18,000 SF PER FLOOR (A-3)
ALLOWABLE AREA OF 27,000 SF PER FLOOR (B)

ACTUAL AREA:
BASEMENT: 6,029 SQ FT
FIRST FLOOR: 7,096 SQ FT
SECOND FLOOR: 3,879 SQ FT

EGRESS:

PER 1005.3.1 STAIRS WIDTH (.2" PER OCCUPANT (SPRINKLERED))= .2" X 22 OCCUPANTS (SECOND FLOOR LOAD):
36" MIN BETWEEN CLEAR BETWEEN HANDRAIL (SECTION 1011.2)

PROVIDED STAIR WIDTH = 2 EGRESS STAIRS @ 46" EA. = (**92" TOTAL STAIR EGRESS WIDTH FROM SECOND FLOOR**)

EGRESS WIDTH MINIMUM CORRIDOR WIDTH = **44"** (TABLE 1020.3)

EGRESS WIDTH REQUIREMENTS (OTHER/NONSTAIR) - SECTION 1005.3.2

CORRIDOR RATING - TABLE 1020.2 = **0**

COMMON PATH OF TRAVEL (MAX) - TABLE 1006.2.1 =**75' (A) & 100' (B)**

EXIT AND EXIT ACCESS TRAVEL DISTANCE - TABLE 1017.2 = **250' (A) & 300 (B) (SPRINKLERED)**

DEAD END CORRIDORS < **50'** PER 1020.5

MINIMUM NUMBER OF EXITS OR ACCESS TO EXITS PER STORY PER TABLE 1006.3.3
MAIN LEVEL = 2
MAIN LEVEL = 3

PER 1007.1.1 - TWO EXITS PROVIDED. DISTANCE BETWEEN EXITS TO BE NOT LESS THAN 1/3 OF THE BUILDING DIAGONAL

BUILDING ADDITION DIAGONAL 140' - 10" FT/3 = 47' FT
REQUIRED MIN., ACTUAL - MEASURED IN A STRAIGHT LINE BETWEEN EXIT DOORS 106' - 7" FT.

PORTABLE FIRE EXTINGUISHERS:
906.3(1) IBC CLASS A FIRE HAZARD (LIGHT) - MAX TRAVEL DISTANCE **75'**

PLUMBING FIXTURE COUNT

PLUMBING FIXTURES:
PER TABLE 403.1 OF 2018 ARKANSAS PLUMBING CODE
*PER SECTION 403.2, WHERE PLUMBING FIXTURES ARE REQUIRED, SEPARATE FACILITIES SHALL BE PROVIDED FOR EACH SEX.

TOTAL OCCUPANTS: **A-3** **579**

WATER CLOSETS - 1 PER 25 OCCUPANTS FOR FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50

MALE	(290 / 125)	=	3
FEMALE	(290 / 65)	=	5
			8 TOILETS REQUIRED
			8 PROVIDED

LAVATORIES - 1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80

(579 / 200)	=	3
		3 LAVATORIES REQUIRED
		5 PROVIDED

DRINKING FOUNTAINS - 1 PER 100 OCCUPANTS

(579/500)	=	**2 FOUNTAINS REQUIRED**
		2 PROVIDED

SERVICE SINK

	1 SERVICE SINK REQUIRED
	2 PROVIDED

LIFE SAFETY SYMBOL LEGEND

- PATH OF EGRESS
- PATH OF EGRESS #
- ROOM NUMBER
- 1 HR FIRE WALL
- 2 HR FIRE WALL
- SOUND RATED WALL
- ASSEMBLY AREA
- BUSINESS AREA
- STORAGE AREA
- F.E.C. FIRE EXTINGUISHER CABINET
- FEC FIRE EXTINGUISHER CABINET

FEC#1: RECESSED (REQUIRED 6" STUDS)
FEC#2: SEMI-RECESSED
FEC#3: SURFACE

- DIRECTION OF EGRESS
- 68.5" CLR | 100 | 340 — CLEAR WIDTH OF EGRESS COMPONENT / MAX. EGRESS CAPACITY / ACTUAL OCCUPANT LOAD
- ROOM NAME | 200 SF | S-2 | 100 | 2 — FLOOR AREA (NET OR GROSS AS REQUIRED) / OCCUPANT LOAD / OCCUPANT LOAD FACTOR / OCCUPANCY CLASSIFICATION

WDD ARCHITECTS

REGISTERED ARCHITECT — BRITTENEY DELOACH — ARKANSAS — 6/9/26

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BYRNE HALL RENOVATION
2417 N TYLER ST.
LITTLE ROC, AR 72207

CONTENTS
LIFE SAFETY

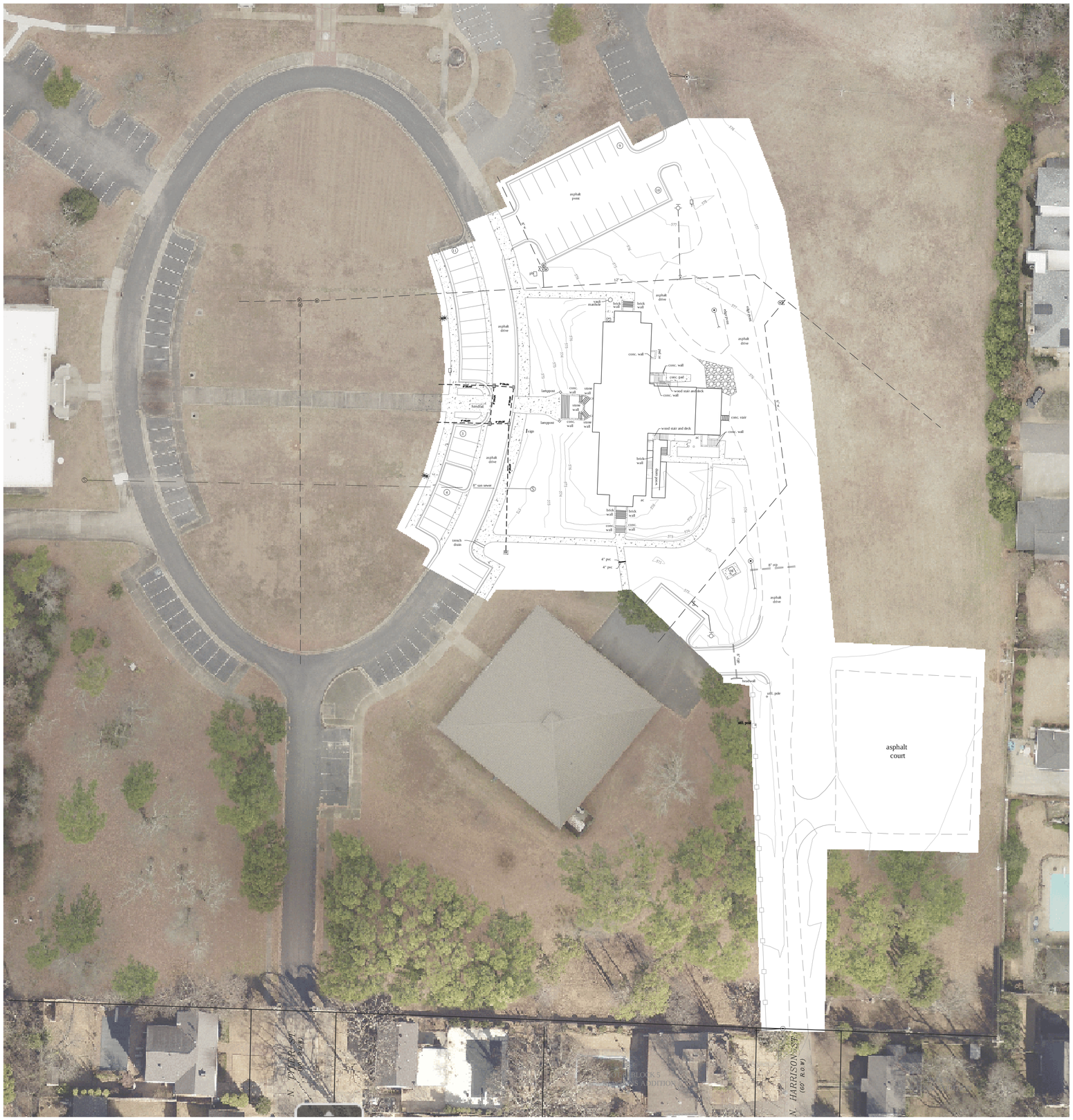
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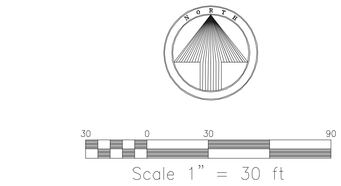
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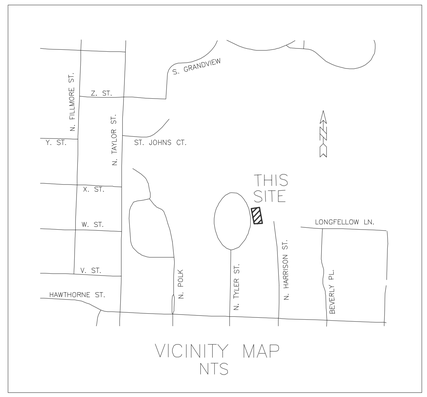
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LEGEND

⧖	water valve
W	water meter
	grate–inlet
	power pole
	sign
SG	switchgear
AC	ac pad
G	gas meter
E	electric meter
	guy wire
PB	pull box
S	sanitary sewer manhole
	roof drain
	light pole
	concrete
	brick
	gravel
	chain link fence
	water main
	sanitary sewer main

NO PORTION OF THIS PROPERTY IS LOCATED WITHIN THE 100 YEAR FLOOD BOUNDARY AS SHOWN ON THE FLOODWAY, FLOOD BOUNDARY AND FLOOD INSURANCE WORK MAP FOR LITTLE ROCK, ARKANSAS.
(FIRM Panel No. 05119C0339H, JUNE 7, 2019)

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
ANTHONY E. DATERS
No. 5033

05–26–26

WHITE-DATERS & ASSOCIATES, INC.
CIVIL ENGINEERING, LAND PLANNING & DEVELOPMENT
24 RAHLING CIRCLE LITTLE ROCK, ARKANSAS 72223

WDD

NOT FOR CONSTRUCTION

PROJECT TITLE

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BYRNE HALL RENOVATION
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CONTENTS

TOPOGRAPHICAL SURVEY

REVISIONS

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C01.0

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NORTH

10 0 10 30

Scale 1" = 10 ft

LEGEND

- water valve
- water meter
- grate-inlet
- power pole
- sign
- SG switchgear
- AC ac pad
- G gas meter
- E electric meter
- guy wire
- PB pull box
- S sanitary sewer manhole
- roof drain
- light pole
- concrete
- brick
- gravel
- chain link fence
- water main
- sanitary sewer main

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER TIMOTHY E. DATERS No. 5033

05-26-26

WHITE-DATERS & ASSOCIATES, INC.
CIVIL ENGINEERING, LAND PLANNING & DEVELOPMENT
24 RAHLING CIRCLE LITTLE ROCK, ARKANSAS 72223

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BYRNE HALL RENOVATION
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LITTLE ROCK AR, 72207

CONTENTS

ENLARGED SURVEY

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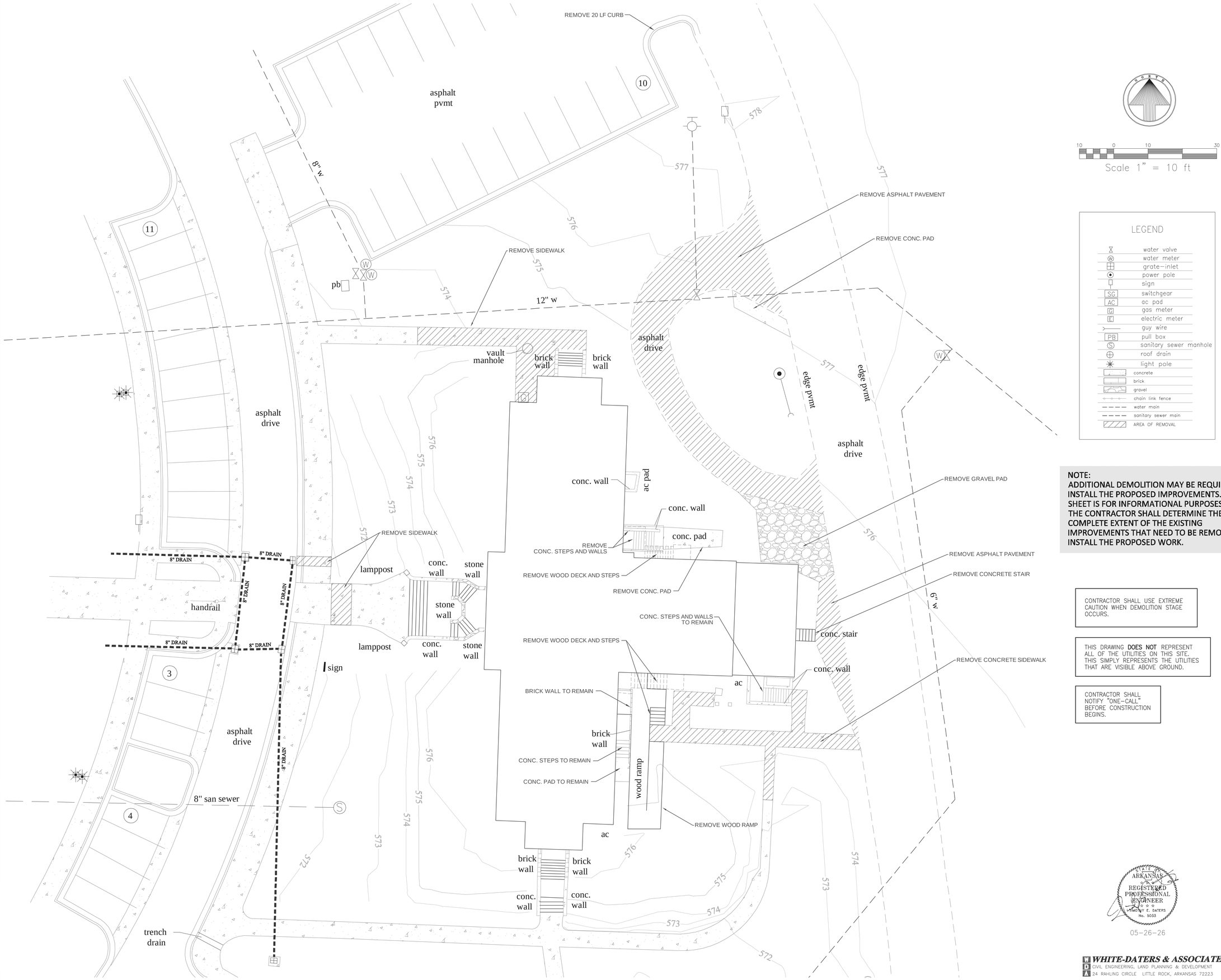
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C01.1



NORTH

10 0 10 30

Scale 1" = 10 ft

LEGEND

- water valve
- water meter
- grate–inlet
- power pole
- sign
- SG switchgear
- AC ac pad
- G gas meter
- E electric meter
- guy wire
- PB pull box
- S sanitary sewer manhole
- roof drain
- light pole
- concrete
- brick
- gravel
- chain link fence
- water main
- sanitary sewer main
- AREA OF REMOVAL

NOTE:
ADDITIONAL DEMOLITION MAY BE REQUIRED TO INSTALL THE PROPOSED IMPROVEMENTS. THIS SHEET IS FOR INFORMATIONAL PURPOSES AND THE CONTRACTOR SHALL DETERMINE THE COMPLETE EXTENT OF THE EXISTING IMPROVEMENTS THAT NEED TO BE REMOVED TO INSTALL THE PROPOSED WORK.

CONTRACTOR SHALL USE EXTREME CAUTION WHEN DEMOLITION STAGE OCCURS.

THIS DRAWING **DOES NOT** REPRESENT ALL OF THE UTILITIES ON THIS SITE. THIS SIMPLY REPRESENTS THE UTILITIES THAT ARE VISIBLE ABOVE GROUND.

CONTRACTOR SHALL NOTIFY "ONE–CALL" BEFORE CONSTRUCTION BEGINS.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
ANTHONY E. DATERS
No. 5033

05–26–26

WHITE-DATERS & ASSOCIATES, INC.
CIVIL ENGINEERING, LAND PLANNING & DEVELOPMENT
24 RAHLING CIRCLE LITTLE ROCK, ARKANSAS 72223

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CONTENTS

SITE DEMOLITION

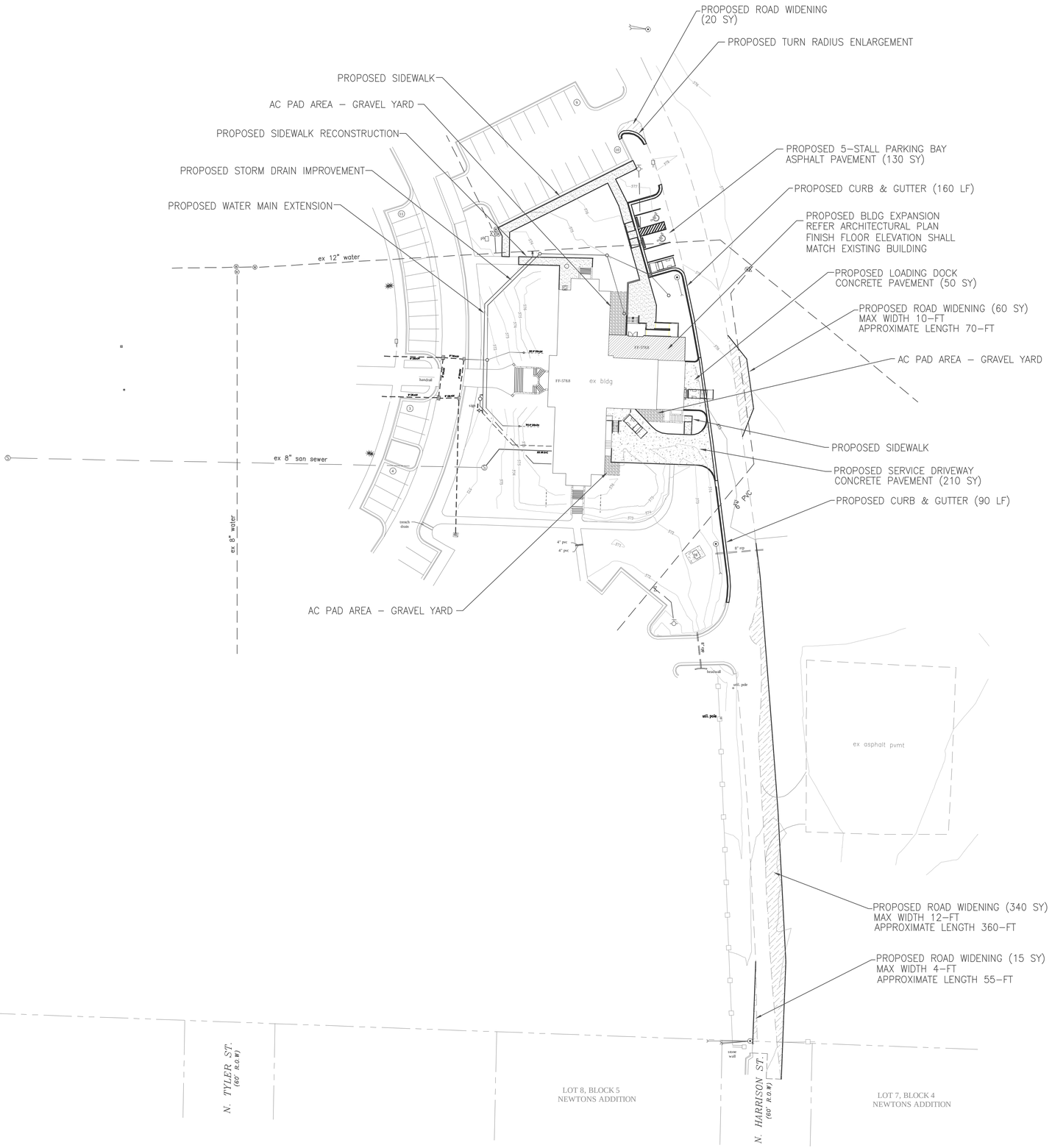
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SHEET C02.0

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30 0 30 90

Scale 1" = 30 ft

GENERAL SITE UTILITY CONSTRUCTION NOTES:

1. FINISH CONTOURS AND GRADES SHOWN ARE FOR FINISHED SURFACES, ALLOWANCES SHALL BE MADE FOR PAVEMENTS, SLABS, TOPSOIL, SOD, ETC. UNIFORM PLANES AND SURFACES SHALL BE SHAPED BETWEEN FINISHED SPOT ELEVATIONS AND/OR FINISH CONTOURS SHOWN. MINIMUM PAVEMENT SLOPES SHALL BE 1%, MINIMUM FINISH SLOPES ON GRASS OR SOD SURFACES SHALL BE 1%, MINIMUM LONGITUDINAL CONCRETE CURB & GUTTER SLOPE SHALL BE 0.6%, SPILLOUT CURB SHALL BE USED ON THE HIGH SIDE OF PAVEMENT AND AT DISCHARGE POINTS.

2. THE CONTRACTOR SHALL CONTROL EROSION ON THE SITE. ALL SLOPES SHALL BE FERTILIZED, SEEDED AND MULCHED (OR LANDSCAPED) AS SOON AS POSSIBLE. THE CONTRACTOR SHALL FILE A NOTICE OF INTENT WITH THE ARKANSAS DPC&E. THE SITE SHALL BE GRADED TO MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION, WATER SHALL NOT BE ALLOWED TO POND.

3. ALL AREAS TO BE CUT OR FILLED SHALL BE CLEARED AND GRUBBED. THE MAXIMUM FILL SLOPE SHALL BE 3:1. ALL FILLS SHALL BE MADE IN 8" LIFTS AND COMPACTED, AT OPTIMUM MOISTURE CONTENT TO 95% OF MODIFIED PROCTOR DENSITY (ASTM D–1557), AS DETERMINED BY IN–PLACE DENSITY TESTS. BORROW AND FILL MATERIAL SHALL BE SELECT CLAY SAND OR SANDY CLAY HAVING A LIQUID LIMIT LESS THAN 40 OR OTHER APPROVED FILL. FILL SOILS CLASSIFYING AS SC OR GC ACCORDING TO THE UNIFIED SOILS CLASSIFICATION SYSTEM ARE CONSIDERED SUITABLE. SHALE MATERIAL USED IN FILL SHALL BE COMPACTED AT 3% ABOVE OPTIMUM MOISTURE CONTENT WITH A VIBRATORY SHEEPS FOOT COMPACTOR.

4. THE CONTRACTOR SHALL COORDINATE WITH EACH UTILITY COMPANY PRIOR TO ANY EXCAVATION. ANY DAMAGE TO UTILITY LINES CAUSED BY THE CONTRACTORS OPERATIONS SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE. THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL ALIGNMENT OF EXISTING AND PROPOSED STORM SEWER, SANITARY SEWER AND WATER LINES TO ENSURE THAT THEY ARE INSTALLED WITH ADEQUATE COVER AND CLEARANCE . ALL ROUGH GRADING SHALL BE COMPLETE BEFORE INSTALLATION OF STORM SEWER, SANITARY SEWER AND APPURTENANCES, WATER MAINS, SERVICES AND APPURTENANCES. ALL UTILITY TRENCHES SHALL BE BACKFILLED AND COMPACTED WITH SELECT MATERIAL AS SPECIFIED IN NOTE #3 ABOVE.

5. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, CODES AND ORDINANCES GOVERNING WORK OF THIS TYPE.

6. THE INSTALLATION OF ALL CULVERT PIPE TO BE IN ACCORDANCE WITH AHTD SPECIFICATIONS.

7. ALL EXISTING IMPROVEMENTS WHICH INTERFERE WITH THE WORK, AND ARE NOT TO BE SAVED SHALL BE REMOVED AND DISPOSED OF. IMPROVEMENTS IN THE RIGHT–OF–WAY WHICH ARE TO REMAIN SHALL BE PROTECTED BY THE CONTRACTOR.

8. ALL REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS III WITH BELL AND SPIGOT TYPE JOINTS. PIPE, MATERIAL AND INSTALLATION SHALL BE IN CONFORMANCE WITH APPLICABLE ARKANSAS DEPARTMENT OF TRANSPORTATION (ARDOT) STANDARD CONSTRUCTION

9. ALL WATER MAINS AND SEWER MAINS AND THEIR APPURTENANCES INCLUDING INSTALLATION, SHALL COMPLY WITH THE LATEST CENTRAL ARKANSAS WATER WORKS AND LITTLE ROCK WATER RECLAMATION AUTHORITY SPECIFICATIONS. CONNECTIONS SHALL NOT BE MADE TO EXISTING LINES UNTIL NEW CONSTRUCTION HAS BEEN TESTED AND APPROVED BY THE UTILITY.

10. THE CONTRACTORS ATTENTION IS SPECIFICALLY CALLED TO THE LOCATION OF THE EXISTING IMPROVEMENTS.
THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DAMAGING ANY EXISTING IMPROVEMENTS WHICH ARE TO REMAIN.
PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR SHALL REVIEW THE PLANS AND SPECIFICATIONS. HE SHALL VISIT THE SITE AND INSPECT THE CONDITION OF THE SITE AND THE ADJACENT IMPROVEMENTS.

11. THE CONTRACTOR SHALL CALL "ONE–CALL" FOR LOCATION OF ALL UTILITIES PRIOR TO COMMENCEMENT OF ANY EXCAVATION.

12. ANY EXCESS EXCAVATED MATERIAL, NOT REQUIRED FOR CONSTRUCTION OF FILLS SHALL BE DISPOSED OF OFFSITE.

13. HAULING OF CUTTING AND/OR FILLING MATERIAL ON OR OFF PROJECT SITES OVER MUNICIPAL STREET REQUIRE APPROVAL TO A GRADING PERMIT BEGIN ISSUED. CONTACT PUBLIC WORKS TRAFFIC ENGINEERING AT 621 S. BROADWAY 501–379–1800 WITH ANY QUESTIONS OR FOR MORE INFORMATION.

14. DAMAGE TO PUBLIC AND PRIVATE PROPERTY DUE TO HAULING OPERATIONS OR OPERATIONS OF CONSTRUCTION RELATED EQUIPMENT FROM A CONSTRUCTION SITE SHALL BE REPAIRED BY THE PARTY RESPONSIBLE PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.

15. CONTACT PLANNING AND DEVELOPMENT DEPT. ENGINEERING DIVISION AT 501–918–5348 FOR INSPECTION OF ANY WORK IN PUBLIC RIGHT–OF–WAY PRIOR TO PLACEMENT OF CONCRETE OR ASPHALT OR FOR ON–SITE CLARIFICATION OF REQUIREMENT PRIOR TO COMMENCING WORK. FAILURE TO DO SO CAN RESULT IN REMOVAL OF ANY IMPROPERLY PLACED CONCRETE OR ASPHALT AT THE EXPENSE OF OWNER OR CONTRACTOR.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
LAWRENCE E. DATERS
No. 5033

05–26–26

WHITE-DATERS & ASSOCIATES, INC.
CIVIL ENGINEERING, LAND PLANNING & DEVELOPMENT
24 RAHLING CIRCLE LITTLE ROCK, ARKANSAS 72223

NOT FOR CONSTRUCTION

PROJECT TITLE

ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST
LITTLE ROCK AR, 72207

CONTENTS

KEY MAP

REVISIONS

NO.	DATE	DESCRIPTION

25–043
JOB. NO.

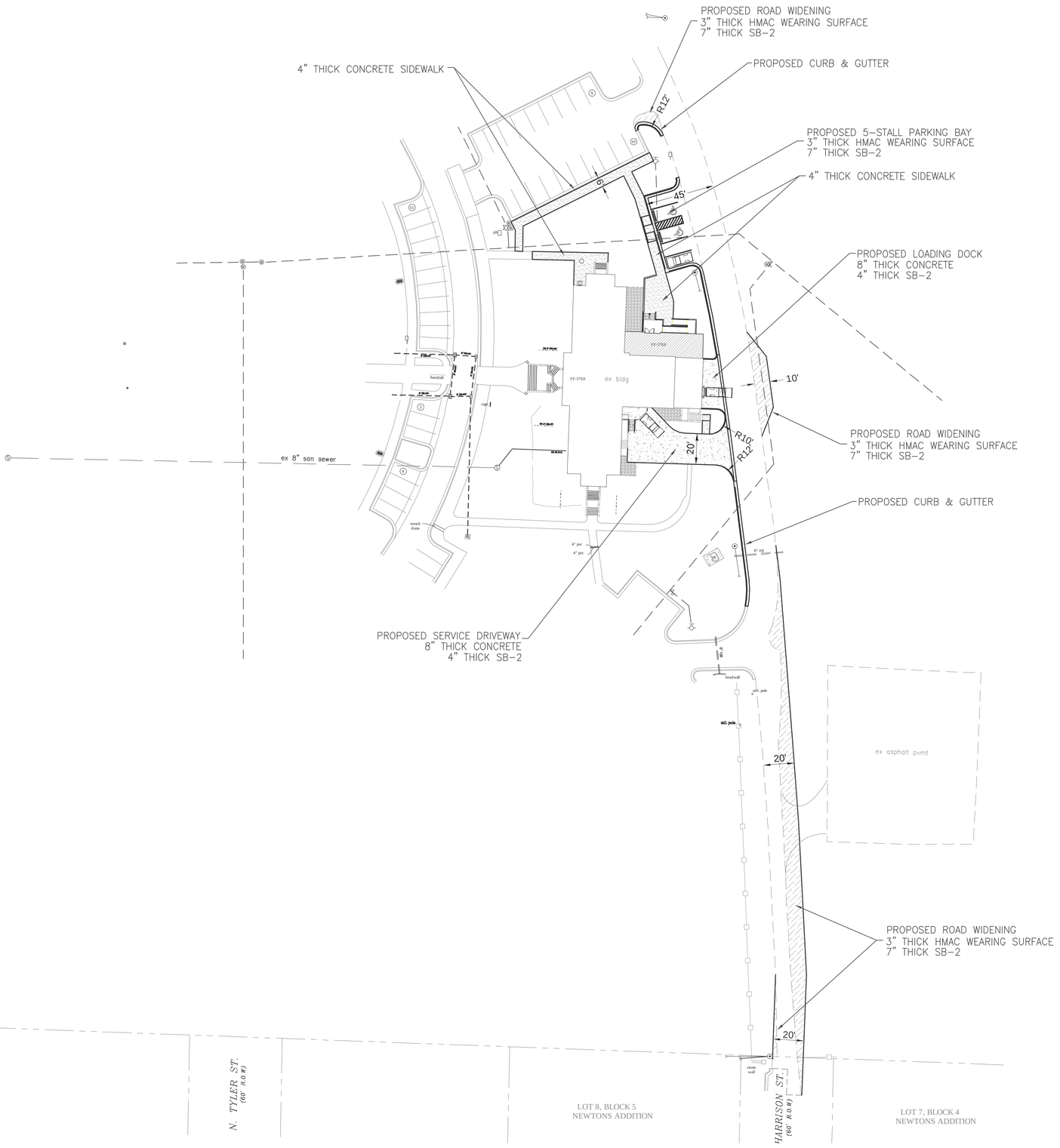
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DATE

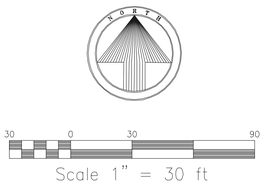
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Scale 1" = 30 ft

NOTES:

1. DIMENSIONS SHOWN ARE MEASURED FROM BACK OF CURB.
2. REFER TO GEOTECHNICAL ENGINEERING REPORT FOR RECOMMENDED PAVEMENT SECTION.
3. PAVEMENT SECTION SHOWN FOR PRICING PURPOSES.
4. ALL SIGNAGE, PAVEMENT MARKINGS AND PARKING LOT STRIPING SHALL CONFORM TO REQUIREMENTS GIVEN IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD). MUTCD REQUIRES THAT PARKING SPACES BE MARKED IN WHITE.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
LAWSON E. DATERS
No. 5033

05-26-26

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CIVIL ENGINEERING, LAND PLANNING & DEVELOPMENT
24 RAHLING CIRCLE LITTLE ROCK, ARKANSAS 72223

NOT FOR CONSTRUCTION

PROJECT TITLE

ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST
LITTLE ROCK AR, 72207

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PAVING PLAN

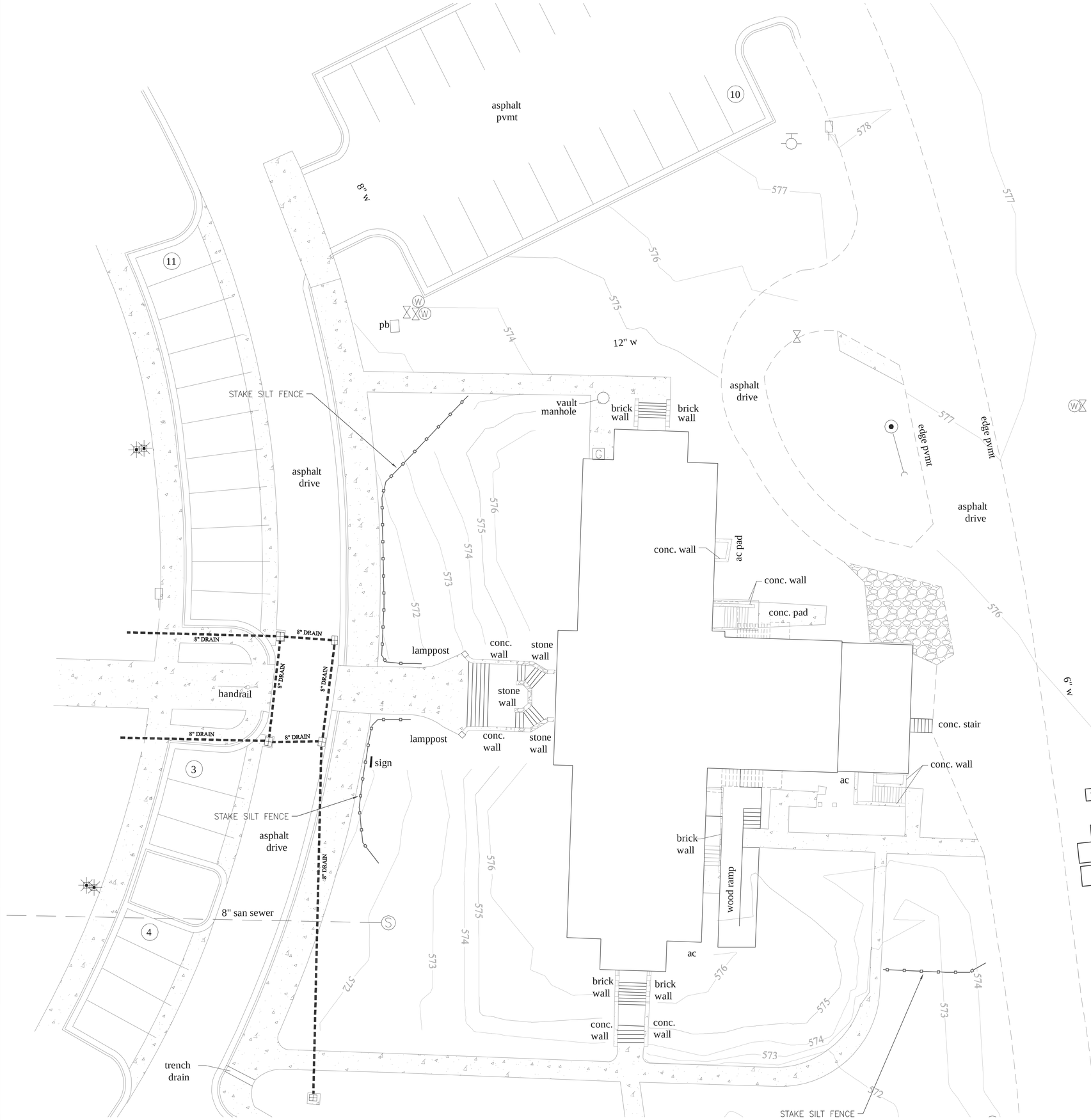
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NORTH

10 0 10 30

Scale 1" = 10 ft

Erosion Control Notes:

1. Contractor will be responsible for obtaining the Grading Permit Contact Joel Rodriguez at the Planning and Development Department (501-371-4817)
2. For Erosion Control, stake Silt Fence in Place prior to construction.
3. All disturbed areas shall be Fertilized, Seeded & Mulched (or Landscaped) within 21 days of final grading.
4. Rough Grading shall be completed and Slopes seeded within 180 Days of Start of Construction.
5. The Contractor shall be responsible for filing a Notice of Intent and Pollution Prevention Plan as required by the ADEQ. All permits shall be acquired prior to the start of construction.
6. Total Cut/Fill is less than 1000 Cubic Yards. (This volume is for Public Works use only. The Contractor shall be responsible for the dirt work calculations.)

SITE SYNOPSIS	
PROPERTY ADDRESS – 2417 N TYLER ST. DISTURBED AREA – 0.43 AC	
CONSTRUCTION SCHEDULE	
SEQUENCE OF ACTIVITIES	ESTIMATED SCHEDULE
MOBILIZATION, INSTALL STABILIZED CONSTRUCTION ENTRANCE	JULY 2026 (WEEK 1)
CONSTRUCT SILT FENCE ADJACENT TO NATURAL DRAIN CROSSING	
CONSTRUCT SILT FENCE ON LOW SIDES OF GRADING AREA	
TREE CLEARING, GRUBBING AND HAULING OFF	JULY 2026 (WEEK 2)
INSTALL TEMPORARY DRAIN CROSSING CULVERT	
BEGIN GRADING	JULY (WEEK 3 & 4)
TEMPORARY STABILIZATION – FILTER SOCKS	
BEGIN INFRASTRUCTURE	AUGUST 2026 – DECEMBER 2026
PERMANENT STABILIZATION – LANDSCAPE, RIP RAP APRON	

LEGEND

- CWOA – CONCRETE WASH-OUT AREA
- EMS – EQUIPMENT MATERIAL STORAGE
- CS – CHEMICAL STORAGE (FUEL TANK LOCATION)
- THMC – TEMPORARY HAZARDOUS MATERIAL CONTAINER
- SDL – SOLID DUMPSTER LOCATION
- PAP – PORT-A-POTTY LOCATION
- SILT FENCE
- SILT FENCE AROUND INLET
- STORM FLOW ARROW
- CUT-OFF DITCH

STATE OF ARKANSAS
CLAUDE E. DATERS
No. 5033
REGISTERED PROFESSIONAL ENGINEER
05-26-26

WHITE-DATERS & ASSOCIATES, INC.
CIVIL ENGINEERING, LAND PLANNING & DEVELOPMENT
24 RAHLING CIRCLE LITTLE ROCK, ARKANSAS 72223

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NOT FOR CONSTRUCTION

PROJECT TITLE

ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST
LITTLE ROCK AR, 72207

CONTENTS

EROSION CONTROL PLAN
STAGE 1

REVISIONS

NO.	DATE	DESCRIPTION

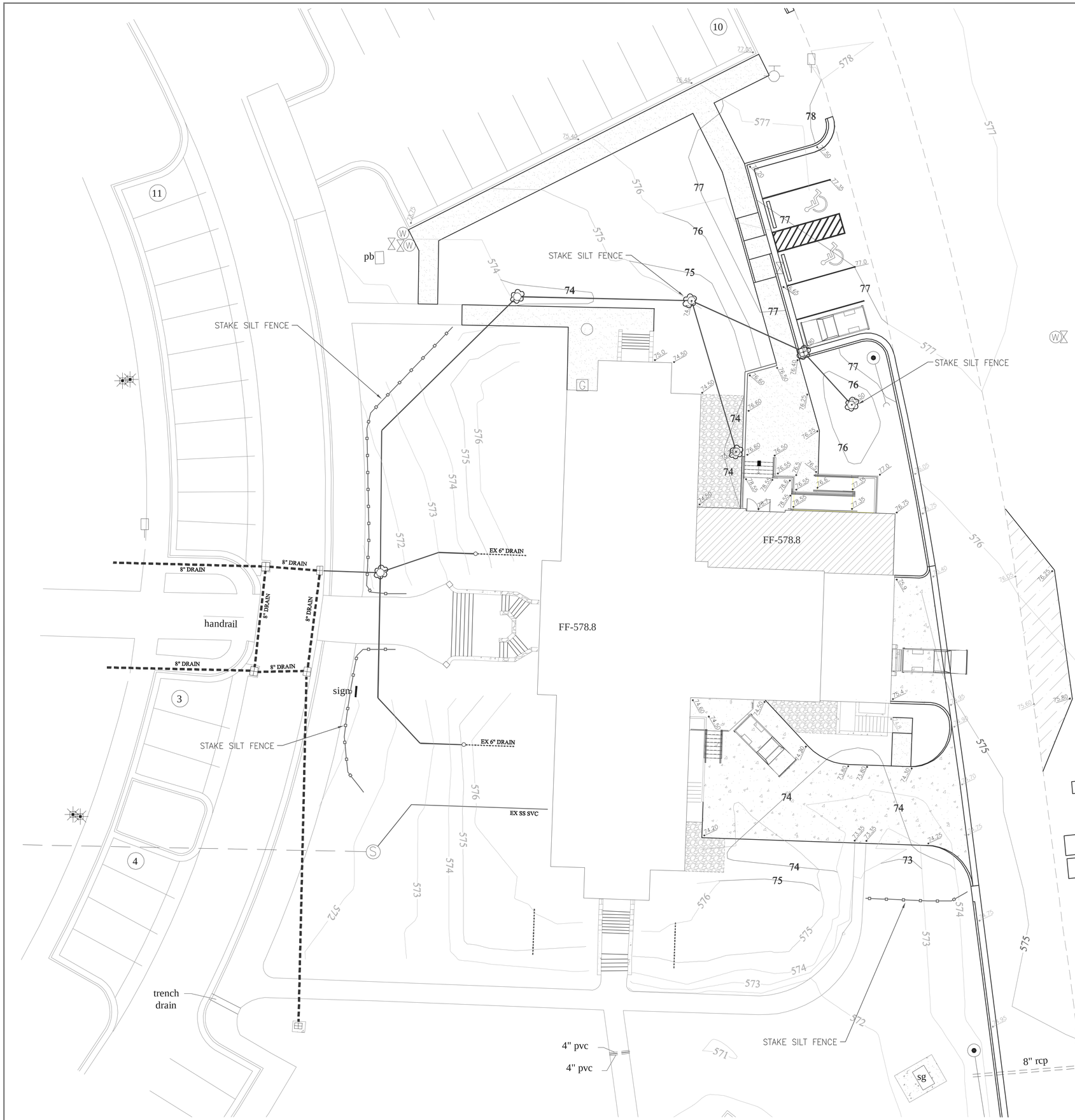
25-043
JOB. NO.

6/9/26
DATE

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SHEET

C05.1



NORTH

10 0 10 30

Scale 1" = 10 ft

Erosion Control Notes:

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BEGIN INFRASTRUCTURE	AUGUST 2026 – DECEMBER 2026
PERMANENT STABILIZATION – LANDSCAPE, RIP RAP APRON	

LEGEND

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- SILT FENCE AROUND INLET
- STORM FLOW ARROW
- CUT-OFF DITCH

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
TIMOTHY E. DATERS
No. 5033
05-26-26

WHITE-DATERS & ASSOCIATES, INC.
CIVIL ENGINEERING, LAND PLANNING & DEVELOPMENT
24 RAHLING CIRCLE LITTLE ROCK, ARKANSAS 72223

NOT FOR CONSTRUCTION

PROJECT TITLE

ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST.
LITTLE ROCK AR, 72207

CONTENTS

EROSION CONTROL PLAN
STAGE 2

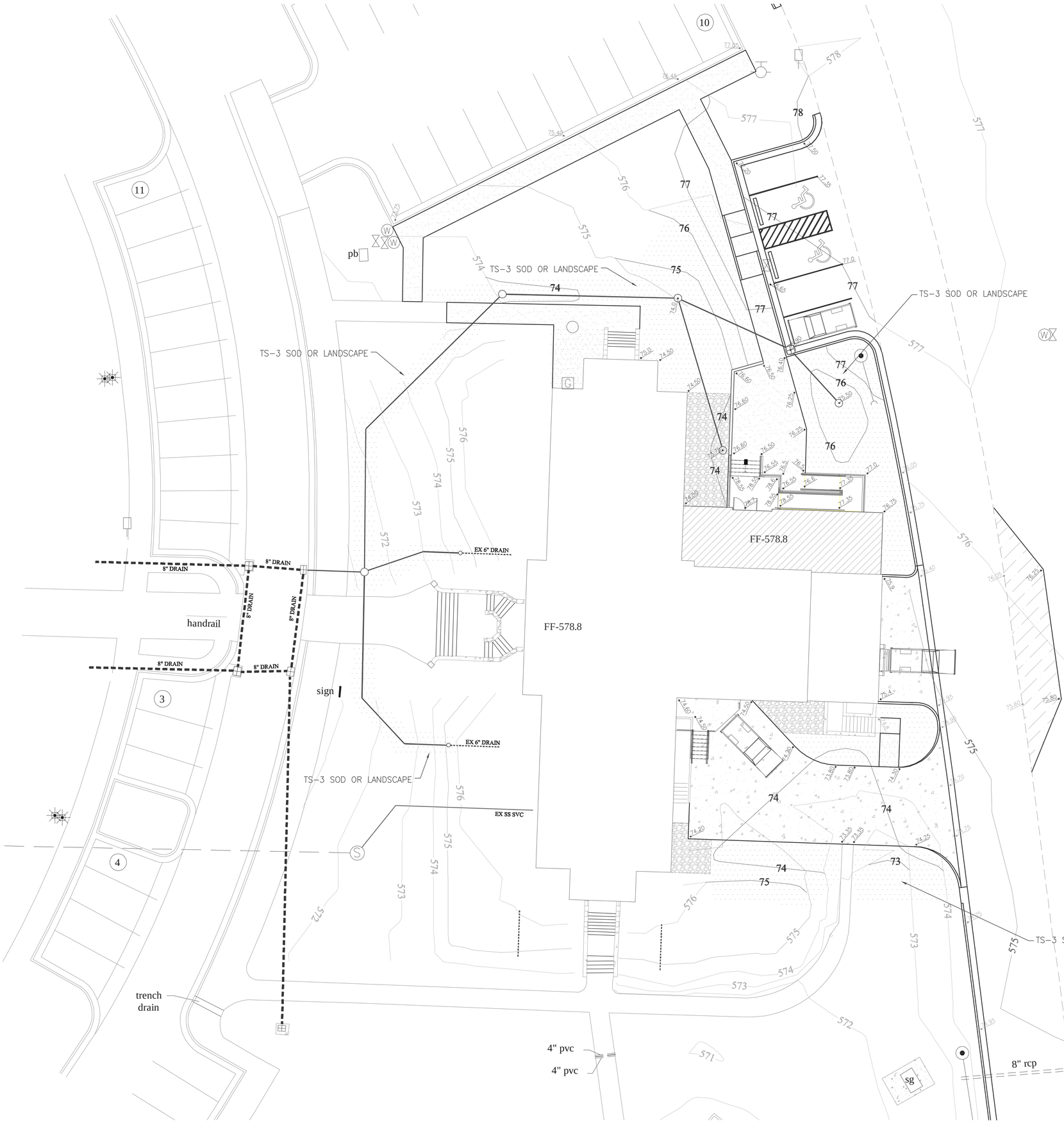
REVISIONS

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LEGENDS

- TS1 - TEMPORARY STABILIZATION (STRAW MULCH)
- TS2 - TEMPORARY GRASSING
- TS3 - PERMANENT GRASSING / LANDSCAPE
- RIP RAP

Universal Soil Loss Equation

A = 300(K)(LS)(C)(P)

Initial Soil Loss Equation

K – Mountainburg 0.17
Carnasaw 0.32
0.24

LS – 0.326 (2.0% for 500')
C – 1.0
P – 1.0

A = 300(0.24)(0.326)(1.0)(1.0) = 23.5 tons/acre/year

Design Soil Loss Equation

K – Mountainburg 0.17
Carnasaw 0.32
0.24

LS – 0.326 (2.0% for 500')
C – 0.24 (Loose Hay at 1.5 tons/acre with 1%–5% slopes limited to 300')
P – 0.6

A = 300(0.24)(0.326)(0.24)(0.6) = 3.4 tons/acre/year < 5.0 allowable

Const Period Soil Loss Est. 2.7 tons/acre/year
Pre. Development Soil Loss Est. 23.5 tons/acre/year
Post Development Soil Loss Est. 3.4 tons/acre/year

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
TIMOTHY E. DATERS
No. 5033
05-26-26

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CIVIL ENGINEERING, LAND PLANNING & DEVELOPMENT
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ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST
LITTLE ROCK AR, 72207

CONTENTS

EROSION CONTROL PLAN
STAGE 3

REVISIONS

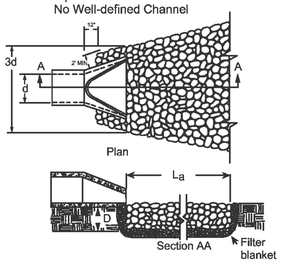
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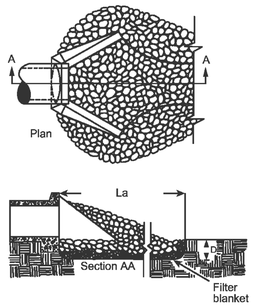
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Pipe Outlet to Flat Area-
No Well-defined Channel



Pipe Outlet to Well-defined
Channel

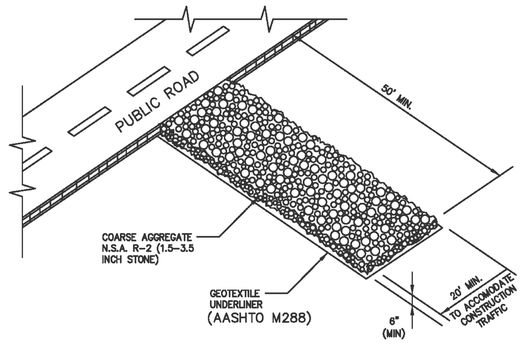


Notes

1. L_a is the length of the riprap apron. Please see design plans for length.
2. D = 1.5 times the maximum stone diameter but not less than 6".
3. In a well-defined channel extend the apron up the channel banks to an elevation of 6" above the maximum tailwater depth of to the top of the bank, whichever is less.
4. A filter blanket or filter fabric should be installed between the riprap and soil foundation complying with AASHTO M288.
5. Please see detail PW-60 for grouting.

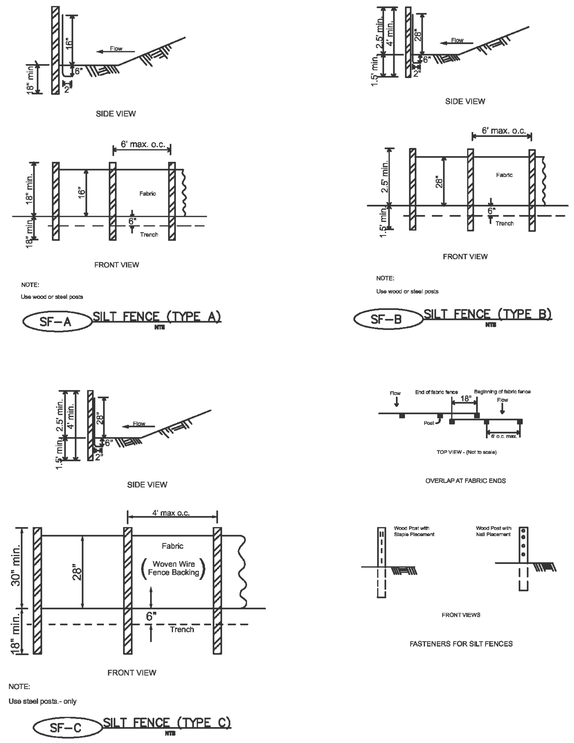
END SECTION RIP RAP PLACEMENT

1. LOCATE STONE STABILIZED PAD AT ANY POINT WHERE VEHICULAR TRAFFIC WILL BE LEAVING THE CONSTRUCTION SITE ONTO A PUBLIC RIGHT-OF-WAY, STREET, ALLEY, SIDEWALK, OR PARKING AREA OR ANY OTHER AREA WHERE THERE IS A TRANSITION FROM BARE SOIL TO A PAVED AREA.
2. WIDTH – 20'-0 MINIMUM BUT NOT LESS THAN FULL WIDTH OF ALL POINTS OF VEHICULAR EGRESS. LENGTH – 50'-0 MINUMUM
3. MAINTAIN THE EXIT TO PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS– OF–WAY. PROVIDE PERIODIC TOP DRESSING WITH 1.5 – 3.5" STONE, AS CONDITIONS DEMAND. IMMEDIATELY REMOVE ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE OR SITE ONTO ROADWAY OR INTO STORM DRAINS. CLEAN WHEELS TO REMOVE MUD PRIOR TO ENTRANCE ON TO PUBLIC RIGHTS–OF–WAY.
4. WHEN WASHING IS REQUIRED, DO SO ON AREAS STABILIZED WITH CRUSHED STONE DRAINING INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

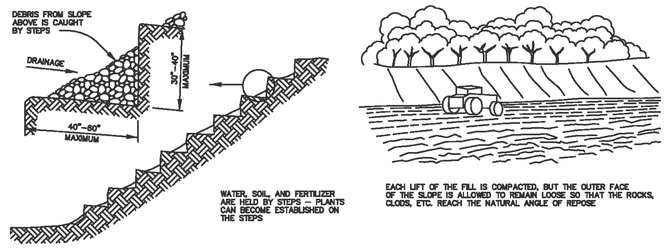


CO CONSTRUCTION EXIT
NTS

CONSTRUCTION GRAVEL

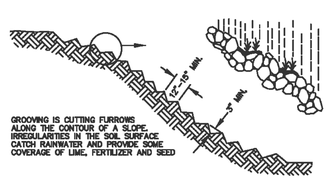


SILT FENCE

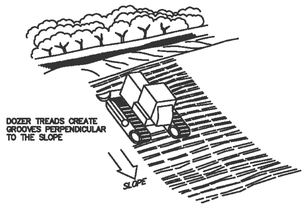


STAIR STEPPING CUT SLOPES

FILL SLOPE TREATMENT



GROOVING SLOPES



TRACKING

SU SURFACE ROUGHENING
NTS

SURFACE ROUGHENING

Ts1 TEMPORARY STABILIZATION

SPECIES	RATE / 1000 SF.	PLANTING DATES
STRAW MULCH	92 LB.	ANY TIME FOR TEMPORARY COVER.

Ts2 TEMPORARY GRASSING

SPECIES	RATE / ACRE	PLANTING DATES	FERTILIZER	RATE / ACRE	MULCH RATE
MILLET	50 LB	JAN 21 TO AUG 14	10–20–10	500 LB	REFER TO
RYE	100 LB	AUG 15 TO JAN 20	10–20–10	500 LB	TS–1

Ts3 PERMANENT GRASSING

SPECIES	RATE / ACRE	PLANTING DATES	FERTILIZER	RATE / ACRE	MULCH RATE
BERMUDA GRASS (UNHULLED) BERMUDA GRASS (HULLLED) LESPEDEZA (KOBE)	5 LB. 10 LB. 10 LB.	MARCH 1 TO JUNE 15	10–20–10	800 LB.	REFER TO TS–1
BERMUDA GRASS (UNHULLED) BERMUDA GRASS (HULLLED)	5 LB. 10 LB.	JUNE 16 TO AUGUST 31	10–20–10	800 LB.	
BERMUDA GRASS (UNHULLED) WHEAT	20 LB. 15 LB.	SEPTEMBER 1 TO FEBRUARY 29	10–20–10	800 LB.	

STABILIZATION AND GRASSING

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PROJECT TITLE

ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST
LITTLE ROCK AR, 72207

CONTENTS

EROSION CONTROL DETAILS

REVISIONS

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6/9/26
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05-26-26

WHITE-DATERS & ASSOCIATES, INC.
CIVIL ENGINEERING, LAND PLANNING & DEVELOPMENT
24 RAHLING CIRCLE LITTLE ROCK, ARKANSAS 72223

NOT FOR CONSTRUCTION

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ST JOHNS CENTER
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CONTENTS

SITE PLAN

REVISIONS

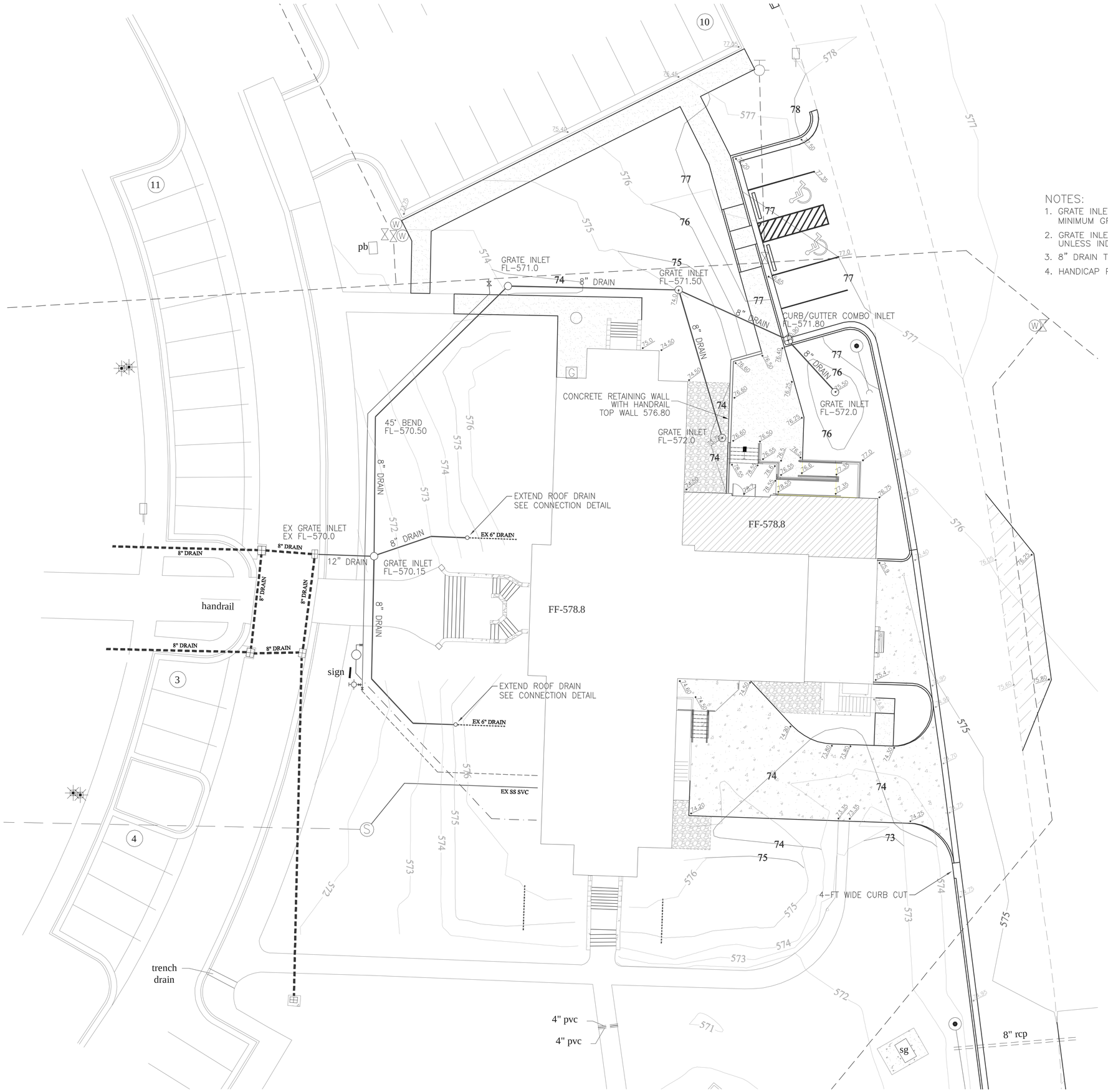
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NOTES:

1. GRATE INLET TO BE NYLOPLAST INLINE DRAIN OR APPROVED EQUAL MINIMUM GRATE SIZE 18" IN DIAMETER OR 18" X 18" SQUARE
2. GRATE INLET NEXT TO SIDEWALK TO BE 4" BELOW SIDEWALK GRADE UNLESS INDICATED ON PLAN
3. 8" DRAIN TO BE SDR 35 PVC
4. HANDICAP PARKING SPACE GRADE NOT TO EXCEED 2% ALL DIRECTION

Scale 1" = 10 ft

ARKANSAS
REGISTERED
PROFESSIONAL
ENGINEER
ANTHONY E. DATERS
No. 5033

05-26-26

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ST JOHNS CENTER
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CONTENTS

SITE GRADING & DRAINAGE PLAN

REVISIONS

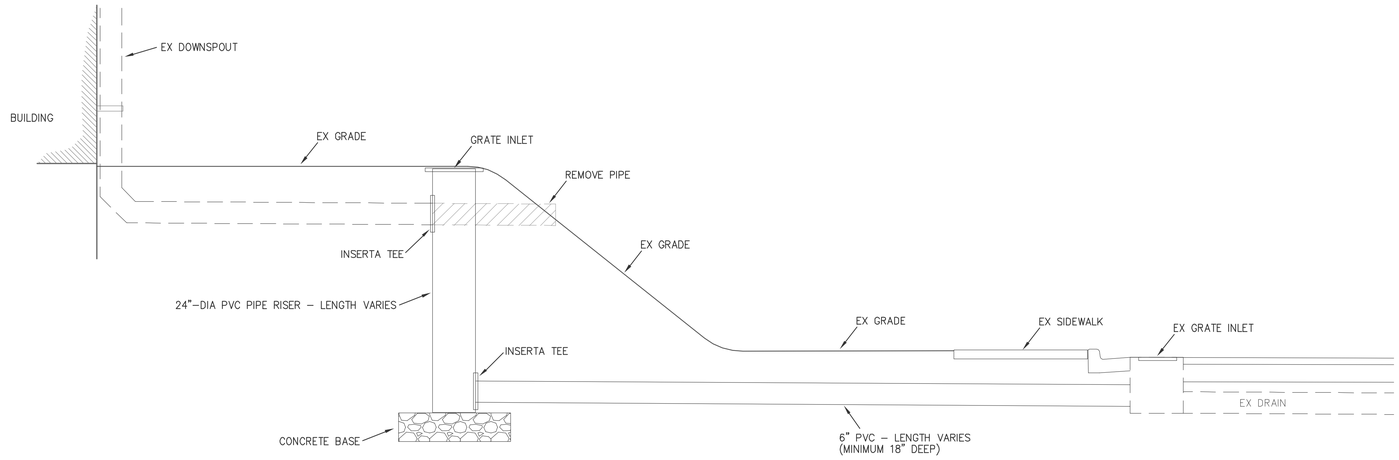
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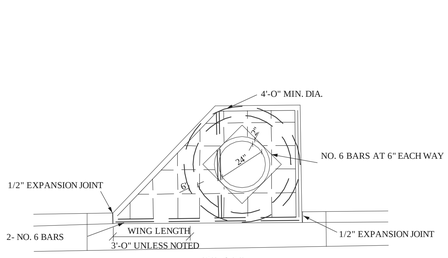
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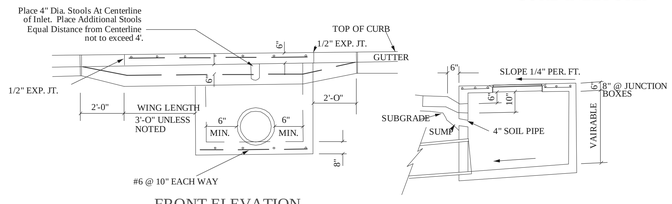


ROOFDRAIN EXTENSION DETAILS



PLAN

CURB INLET STEP



FRONT ELEVATION

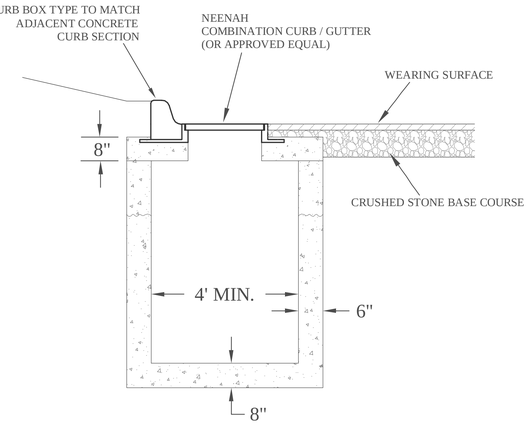
SECTION "A-A"

GENERAL NOTES:

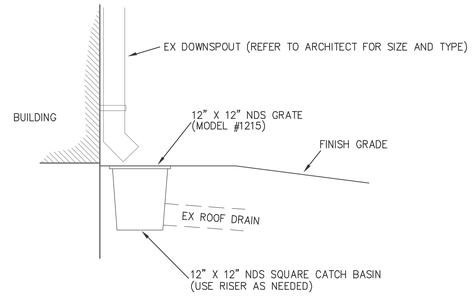
1. Provide steps 15" on center in curb inlet box exceeds 4" in depth place ring and cover over steps.
2. Use double throat only where inlets are at low point of grade otherwise use one throat on upstream side of inlet.
3. Reinforcing steel as shown.
4. Cut and finish all pipe flush with inside of box.
5. Inlet throat to be beveled 45°
6. Costruct pipe so as to have a minimum of 6" clearance at structure.
7. For pipe diameters larger than 24" provide special detail which shows accaurately the pipe arrangement in the structure.
8. Sub no. 6 bars and heavy ring and cover in top of junction boxes in traffic areas
9. Use two conc. stools if wing length is greater then 3'-0". boxes in traffic areas

DIA. OF STRUCTURE	WALL THICKNESS	DIA. OF OUTLET PIPE
4 FT. I.D.	6"	12" THRU 27"
5 FT. I.D.	8"	30" THRU 42"
6 FT. I.D.	8"	48" THRU 54"
8 FT. I.D.	10"	60" THRU 72"

CURB INLET & JUNCTION BOX DETAILS



CURB / GUTTER COMBINATION INLET



ROOFDRAIN TO CATCH BASIN DETAILS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
TIMOTHY E. DATERS
No. 5033
05-26-26

WHITE-DATERS & ASSOCIATES, INC.
CIVIL ENGINEERING, LAND PLANNING & DEVELOPMENT
24 RAHLING CIRCLE LITTLE ROCK, ARKANSAS 72223

NOT FOR CONSTRUCTION

PROJECT TITLE
ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST.
LITTLE ROCK AR, 72207

CONTENTS
GRADING, PAVING & DRAINAGE DETAILS

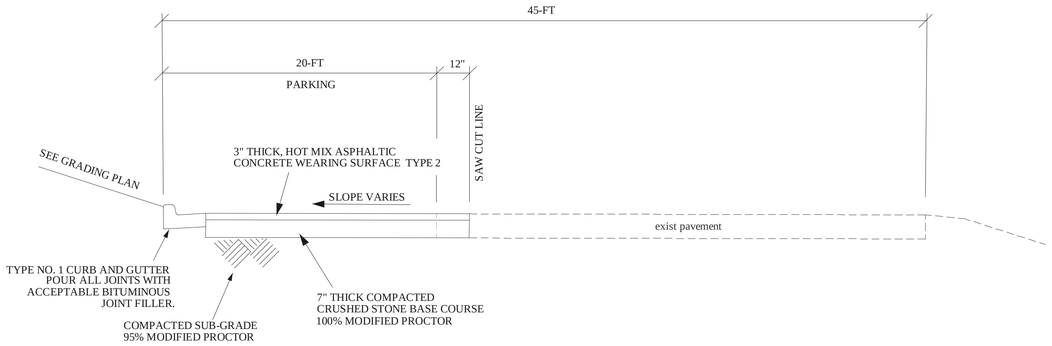
REVISIONS

NO.	DATE	DESCRIPTION

25-043
JOB. NO.
6/9/26
DATE
100% CONSTRUCTION DOCUMENTS

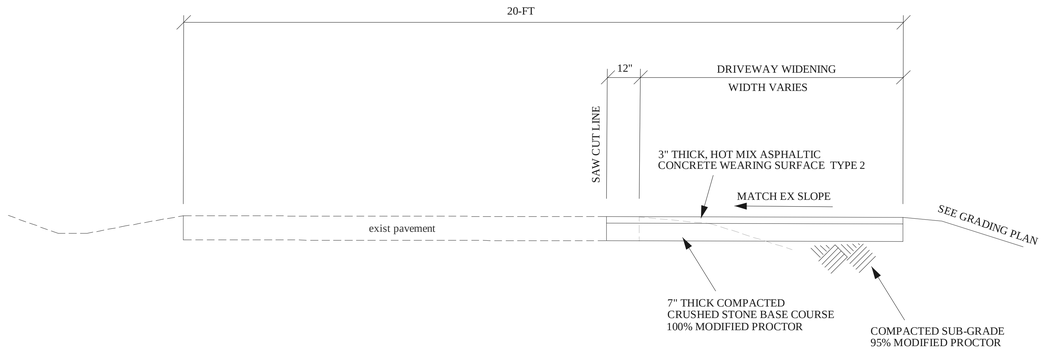
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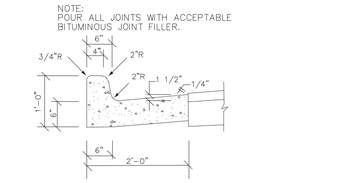
TYPICAL SECTION PARKING LOT

NOTE: REFER TO GEOTECHNICAL ENGINEERING REPORT FOR RECOMMENDED PAVEMENT SECTION

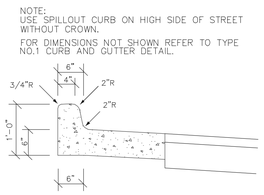


TYPICAL SECTION DRIVEWAY' WIDENING

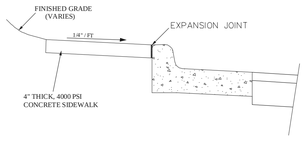
NOTE: REFER TO GEOTECHNICAL ENGINEERING REPORT FOR RECOMMENDED PAVEMENT SECTION



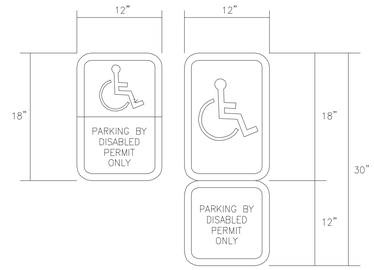
TYPE NO. 1 CURB AND GUTTER



TYPE NO. 1 SPILL OUT CURB

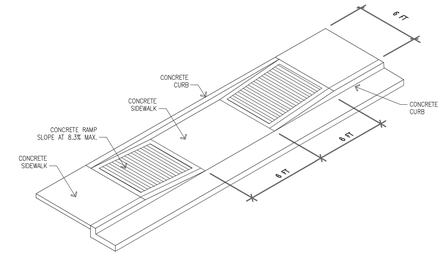


SIDEWALK AT BACK OF CURB



All Handicapped parking spaces must be signed and marked in accordance with the standards adopted by the Department of Transportation.
Use of pavement symbol in handicapped parking spaces is optional. When used the symbol shall be 3 to 5 feet high and white in color.
Top portion shall have a reflective blue background with white reflective symbol and border.
Bottom portion shall have a reflective white background with black opaque legend and border.
May be fabricated on one panel or two.
Signs are to be mounted at standard height. (7 ft. from pavement to bottom of sign).

HANDICAP PARKING SIGN DETAILS



SIDEWALK RAMP DETAIL

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
LINDSAY E. DATERS
No. 5033

05-26-26

WHITE-DATERS & ASSOCIATES, INC.
CIVIL ENGINEERING, LAND PLANNING & DEVELOPMENT
24 RAHLING CIRCLE LITTLE ROCK, ARKANSAS 72223

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ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST
LITTLE ROCK AR, 72207

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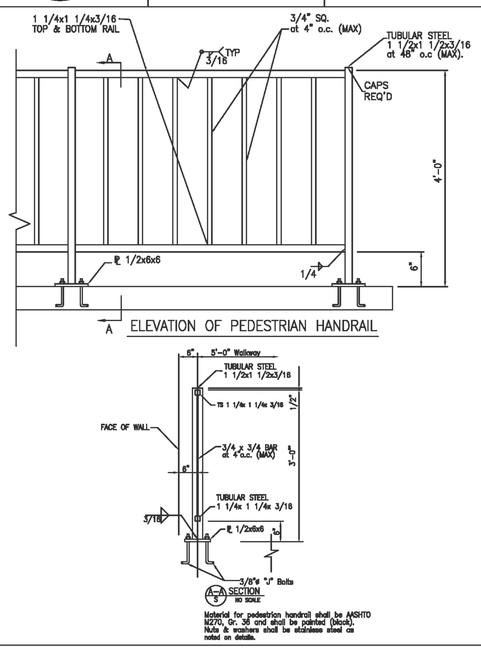
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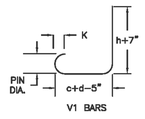
	TITLE		PW-20
CITY OF LITTLE ROCK PUBLIC WORKS	HANDRAIL DETAIL ALTERNATE	Issue Date: AUG, 2006	Revision Date: APR 2015



Material for pedestrian handrail shall be AASHTO M270, Gr. 36 and shall be painted (black). Nuts & washers shall be stainless steel as noted on details.

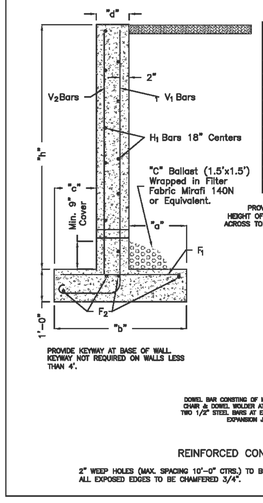
	TITLE		PW-54
CITY OF LITTLE ROCK PUBLIC WORKS	RETAINING WALL DETAILS (8' MAXIMUM HEIGHT)	Issue Date: AUG, 2006	Revision Date: APR 2015

NOTE: IF WALL HEIGHT EXCEEDS 8' OR IF RETAINED EARTH SLOPES UP EXCEEDING 10% GRADE, THE WALL SHALL BE DESIGNED BY PROFESSIONAL ENGINEER WITH GEOTECHNICAL STUDY.



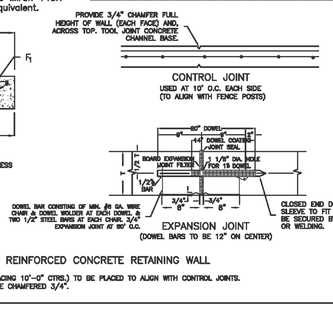
BENDING DIAGRAM

BAR SIZE	BAR	PIN DIA.
#4	4 1/2"	2 1/2"
#5	5"	3"



STEEL SCHEDULE

					V_1 bars		F_1 bars		H_1	V_2	F_2
"h"	"c"	"d"	"e"	"b"	#4 bars					#4 bars	
					#4	#5	#4	#5		#4	#5
1'-0"	8"	8"	8"	2'-0"	#4 12"		#4 18"		18"	18"	5
2'-0"	8"	8"	8"	2'-0"	#4 12"		#4 18"		18"	18"	5
3'-0"	8"	8"	8"	2'-0"	#4 12"		#4 18"		18"	18"	5
4'-0"	8"	8"	1'-2"	2'-6"	#4 12"		#4 12"		18"	18"	5
5'-0"	8"	8"	1'-8"	3'-0"	#4 9"		#4 9"		18"	18"	5
6'-0"	8"	8"	2'-2"	3'-6"	#4 6"		#4 6"		18"	18"	6
7'-0"	12"	8"	2'-4"	4'-0"	#4 6"		#4 6"		18"	18"	6
8'-0"	12"	8"	2'-10"	4'-6"	#4 6"		#4 6"		18"	18"	6



DOWEL BAR CONSTING OF MIN. #8 GA. WIRE CHAIR & DOWEL WOLDER AT EACH DOWEL & TWO 1/2" STEEL BARS AT EACH CHAIR. 3/4" EXPANSION JOINT AT 80' O.C.

REINFORCED CONCRETE RETAINING WALL

2" WEEP HOLES (MAX. SPACING 10'-0" CTRS.) TO BE PLACED TO ALIGN WITH CONTROL JOINTS.
ALL EXPOSED EDGES TO BE CHAMFERED 3/4".

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
Matthew E. Daters
No. 5033

05-26-26

WHITE-DATERS & ASSOCIATES, INC.
CIVIL ENGINEERING, LAND PLANNING & DEVELOPMENT
24 RAHLING CIRCLE LITTLE ROCK, ARKANSAS 72223

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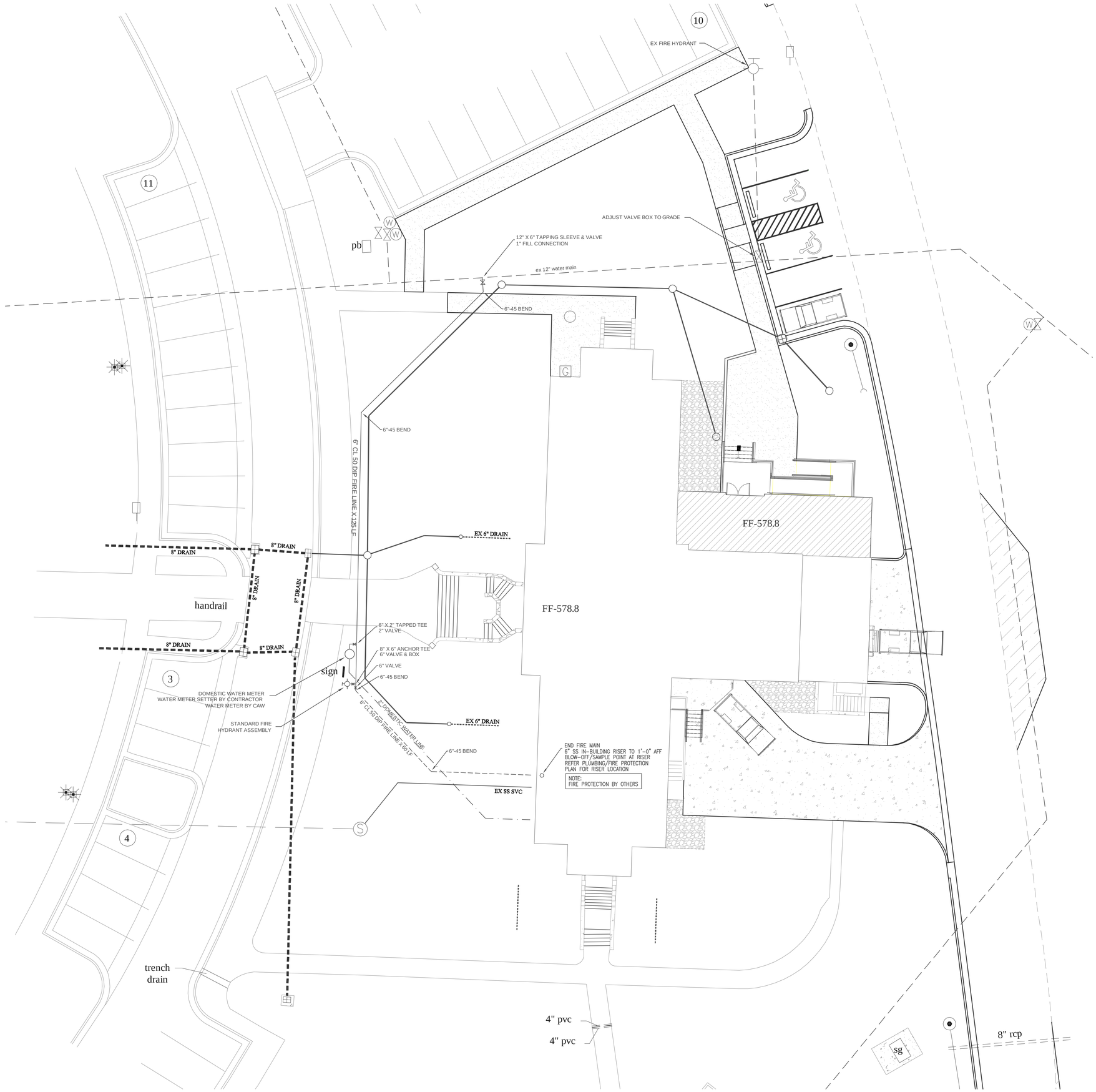
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10 0 10 30

Scale 1" = 10 ft

GENERAL UTILITY NOTES

1. The latest Details and "Standard Pipeline Materials and Construction Specifications" of Central Arkansas Water shall apply.
2. The latest Details and "Standard Specification for Sewer Construction" of the Little Rock Water Reclamation Authority shall apply.
3. The contractor shall locate all existing utilities before beginning construction.
4. WATER LINES SHALL HAVE A MINIMAL HORIZONTAL SEPARATION OF TEN (10') FEET FROM ALL SEWER LINES EXCEPT FOR CROSSINGS. THE WATER LINE SHALL PASS ABOVE THE SEWER LINE WITH A MINIMUM OF 18" OF VERTICAL SEPARATION AND MAINTAIN A MINIMUM GROUND COVER OF 30" ABOVE THE WATER LINE. WHERE 18" OF VERTICAL SEPARATION AND 30" OF GROUND COVER CANNOT BE MAINTAINED OR WHERE THE WATER LINE PASSES UNDER THE SEWER LINE, THAN EITHER THE WATER LINE OR THE SEWER LINE SHALL BE ENCASED AS PER ADH AND CAW REQUIREMENTS. A MINIMUM OF 6" CLEARANCE SHALL BE MAINTAINED BETWEEN ENCASEMENT PIPE AND UNENCASED LINES.
5. The contractor shall verify horizontal and vertical alignment of storm sewer, sanitary sewer, and water lines to ensure that they are installed with adequate cover and clearance. Minimum 36" ground cover to top water pipe. Minimum 24" ground cover to top of sewer pipe. Rough grading to within 0.1 ft of final grade shall be completed before installation of storm sewer, sanitary sewer, water mains and services.
6. The contractor shall make connection to existing sanitary sewer and water mains after they are cleaned, tested and construction approved by utility inspector.
7. All fills are to be made in 8" lifts and compacted to 95% of modified proctor density (ASTM D-1557), as determined by inplace density tests. In transition areas between cuts and fills the top 8" in the cut shall be broken and compacted to a minimum of 95% modified proctor denisity.
8. The contractor shall coordinate with each utility company prior to any excavation. Any damage to existing utility lines caused by contractor's operations shall be repaired at the contractor's expense.
9. Concrete shall have a minimum 28 day compressive strength of 3000 psi unless noted.
10. Provide 10-ft Separation between water and sanitary sewer service
11. All Water Main shall cross over storm drainage and sanitary sewer unless noted on plan.
12. ASTM #7 aggregate is to be used on this project.
13. All materials and components installed after January 3, 2014 in drinking water systems are required to comply with the federal definition of "lead free" contained in Public Law 111-380.

CONTRACTOR SHALL NOTIFY "ONE-CALL" BEFORE CONSTRUCTION BEGINS.

WATER LEGEND

- EX WATER MAIN
- PROP WATER MAIN
- DOMESTIC LINE
- FIRE LINE
- FIRE HYDRANT
- RETAINER GLAND W/ CONCRETE COLLAR
- VALVE
- BEND
- TEE

POLYWRAP ALL DUCTILE IRON MAINS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
ANTHONY E. DATERS
No. 5033

05-26-26

WHITE-DATERS & ASSOCIATES, INC.
CIVIL ENGINEERING, LAND PLANNING & DEVELOPMENT
24 RAHLING CIRCLE LITTLE ROCK, ARKANSAS 72223

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WATER PLAN

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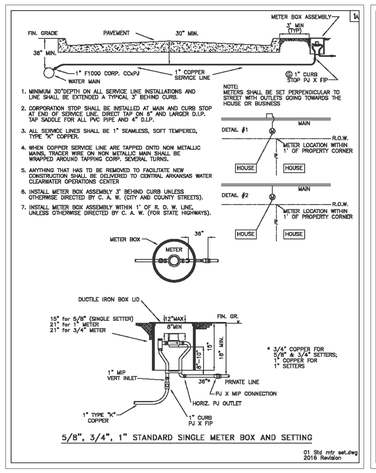
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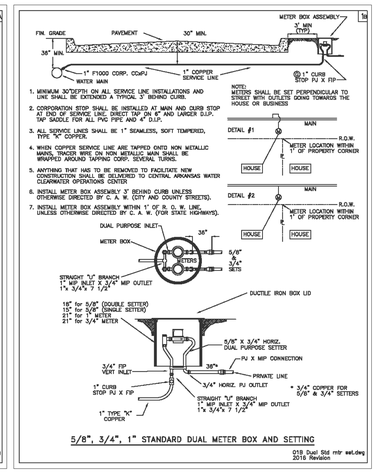
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1. MINIMUM 30"DEPTH ON ALL SERVICE LINE INSTALLATIONS AND LINE SHALL BE EXTENDED A TYPICAL 3' BEHIND CURB.
2. CORPORATION STOP SHALL BE INSTALLED AT MAIN AND CURB STOP AT END OF SERVICE LINE. DIRECT TAP ON 6" AND LARGER D.I.P. TAP SADDLE FOR ALL PVC PIPE AND 4" D.I.P.
3. ALL SERVICE LINES SHALL BE 1" SEAMLESS, SOFT TEMPERED, TYPE "K" COPPER.
4. WHEN COPPER SERVICE LINE ARE TAPPED ONTO NON METALLIC MAINS, TRACER WIRE ON NON METALLIC MAIN SHALL BE WRAPPED AROUND TAPPING CORP. SEVERAL TURNS.
5. ANYTHING THAT HAS TO BE REMOVED TO FACILITATE NEW CONSTRUCTION SHALL BE DELIVERED TO CENTRAL ARKANSAS WATER CLEARWATER OPERATIONS CENTER
6. INSTALL METER BOX ASSEMBLY 3" BEHIND CURB UNLESS OTHERWISE DIRECTED BY C. A. W. (CITY AND COUNTY STREETS).
7. INSTALL METER BOX ASSEMBLY WITHIN 1' OF R. O. W. LINE, UNLESS OTHERWISE DIRECTED BY C. A. W. (FOR STATE HIGHWAYS).

5/8", 3/4", 1" STANDARD SINGLE METER BOX AND SETTING

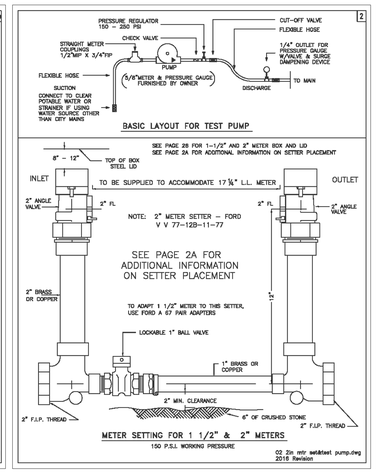
01 Std mtr set.dwg
2016 Revision



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5/8", 3/4", 1" STANDARD DUAL METER BOX AND SETTING

01B Dual Std mtr set.dwg
2016 Revision

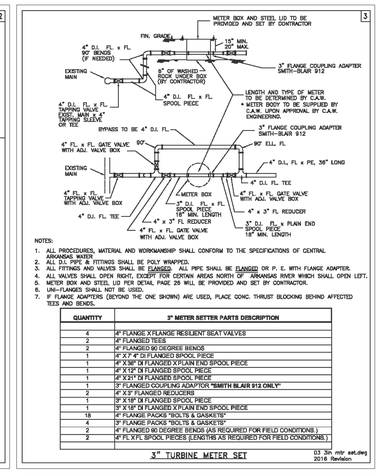


BASIC LAYOUT FOR TEST PUMP

METER SETTING FOR 1 1/2" & 2" METERS

150 P.S.I. WORKING PRESSURE

02 2in mtr set&test pump.dwg
2016 Revision

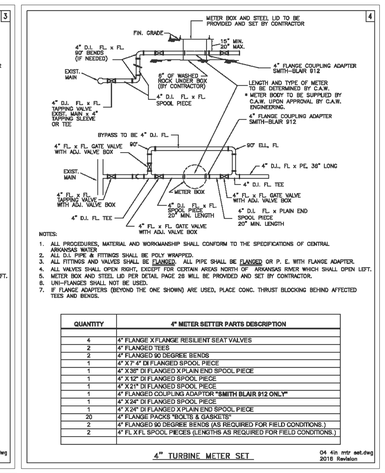


NOTES:
1. ALL PROCEDURES, MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE SPECIFICATIONS OF CENTRAL ARKANSAS WATER.
2. ALL D.I. PIPE & FITTINGS SHALL BE POLY WRAPPED.
3. ALL FITTINGS AND VALVES SHALL BE FLANGED. ALL PIPE SHALL BE FLANGED OR P. E. WITH FLANGE ADAPTER.
4. ALL VALVES SHALL OPEN RIGHT, EXCEPT FOR CERTAIN AREAS NORTH OF ARKANSAS RIVER WHICH SHALL OPEN LEFT.
5. METER BOX AND STEEL LID PER DETAIL PAGE 2B WILL BE PROVIDED AND SET BY CONTRACTOR.
6. UNI-FLANGES SHALL NOT BE USED.
7. IF FLANGE ADAPTERS (BEYOND THE ONE SHOWN) ARE USED, PLACE CONC. THRUST BLOCKING BEHIND AFFECTED TEES AND BENDS.

QUANTITY	3" METER SETTER PARTS DESCRIPTION
4	4" FLANGE X FLANGE RESILIENT SEAT VALVES
2	4" FLANGED TEES
2	4" FLANGED 90 DEGREE BENDS
1	4" X 2" DI FLANGED SPOOL PIECE
1	4" X 36" DI FLANGED X PLAIN END SPOOL PIECE
1	4" X 12" DI FLANGED SPOOL PIECE
1	4" X 21" DI FLANGED SPOOL PIECE
1	3" FLANGED COUPLING ADAPTER "SMITH BLAIR 912 ONLY"
2	4" X 3" FLANGED REDUCERS
1	3" X 18" DI FLANGED SPOOL PIECE
1	3" X 18" DI FLANGED X PLAIN END SPOOL PIECE
18	4" FLANGE PACKS "BOLTS & GASKETS"
4	3" FLANGE PACKS "BOLTS & GASKETS"
2	4" FLANGED 90 DEGREE BENDS (AS REQUIRED FOR FIELD CONDITIONS.)
2	4" FL X FL SPOOL PIECES (LENGTHS AS REQUIRED FOR FIELD CONDITIONS.)

3" TURBINE METER SET

03 3in mtr set.dwg
2016 Revision

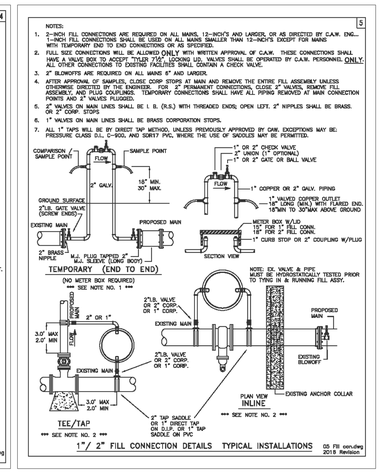


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5. METER BOX AND STEEL LID PER DETAIL PAGE 2B WILL BE PROVIDED AND SET BY CONTRACTOR.
6. UNI-FLANGES SHALL NOT BE USED.
7. IF FLANGE ADAPTERS (BEYOND THE ONE SHOWN) ARE USED, PLACE CONC. THRUST BLOCKING BEHIND AFFECTED TEES AND BENDS.

QUANTITY	4" METER SETTER PARTS DESCRIPTION
4	4" FLANGE X FLANGE RESILIENT SEAT VALVES
2	4" FLANGED TEES
2	4" FLANGED 90 DEGREE BENDS
1	4" X 2" DI FLANGED SPOOL PIECE
1	4" X 36" DI FLANGED X PLAIN END SPOOL PIECE
1	4" X 12" DI FLANGED SPOOL PIECE
1	4" X 21" DI FLANGED SPOOL PIECE
1	4" FLANGED COUPLING ADAPTER **"SMITH BLAIR 912 ONLY"**
1	4" X 24" DI FLANGED SPOOL PIECE
1	4" X 24" DI FLANGED X PLAIN END SPOOL PIECE
20	4" FLANGE PACKS "BOLTS & GASKETS"
2	4" FLANGED 90 DEGREE BENDS (AS REQUIRED FOR FIELD CONDITIONS.)
2	4" FL X FL SPOOL PIECES (LENGTHS AS REQUIRED FOR FIELD CONDITIONS.)

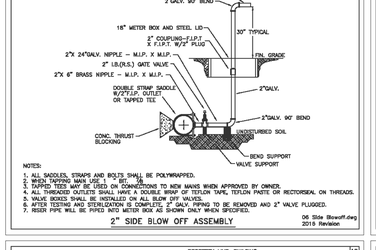
4" TURBINE METER SET

04 4in mtr set.dwg
2016 Revision

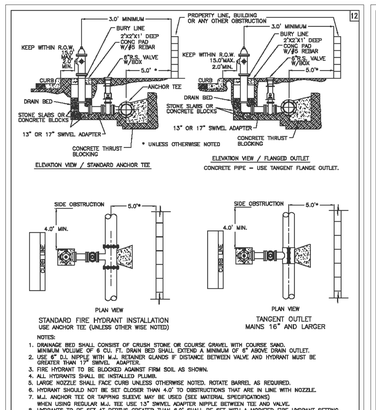

NOTES:
1. 2-INCH FILL CONNECTIONS ARE REQUIRED ON ALL MAINS, 12-INCH'S AND LARGER, OR AS DIRECTED BY C.A.W. ENG., WITH TEMPORARY END TO END CONNECTIONS OR AS SPECIFIED.
2. FULL SIZE CONNECTIONS WILL BE ALLOWED ONLY WITH WRITTEN APPROVAL OF C.A.W. THESE CONNECTIONS SHALL HAVE A VALVE BOX TO ACCEPT TYLER 7765, LOCKING LID. VALVES SHALL BE OPERATED BY C.A.W. PERSONNEL ONLY. ALL OTHER CONNECTIONS TO EXISTING FACILITIES SHALL CONTAIN A CHECK VALVE.
3. 2" BLOWOFFS ARE REQUIRED ON ALL MAINS 8" AND LARGER.
4. AFTER APPROVAL OF SAMPLES, CLOSE CORP. STOPS AT MAIN AND REMOVE THE ENTIRE FILL ASSEMBLY UNLESS OTHERWISE DIRECTED BY THE ENGINEER. FOR 2" PERMANENT CONNECTIONS, CLOSE 2" VALVES, REMOVE FILL ASSEMBLY, AND PLUG COUPLINGS. TEMPORARY CONNECTIONS SHALL HAVE ALL PIPING REMOVED AT MAIN CONNECTION POINTS AND 2" VALVES PLUGGED.
5. 2" VALVES ON MAIN LINES SHALL BE I. BL (R.S.) IN-LINE WITH THREADED ENDS, OPEN LEFT. 2" RIPPLES SHALL BE BRASS. OR 2" COMP. STOPS
6. 1" VALVES ON MAIN LINES SHALL BE BRASS CORPORATION STOPS.
7. ALL 1" TAPS WILL BE BY DIRECT TAP METHOD, UNLESS PREVIOUSLY APPROVED BY CWA. EXCEPTIONS MAY BE: PRESSURE CLASS D.I., C-900, AND SDR17 PVC, WHERE THE USE OF SADDLES MAY BE PERMITTED.

1" / 2" FILL CONNECTION DETAILS TYPICAL INSTALLATIONS

05 FW conn.dwg
2018 Revision



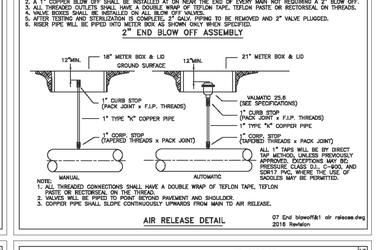
1" BLOW OFF / SAMPLE POINT ASSEMBLY



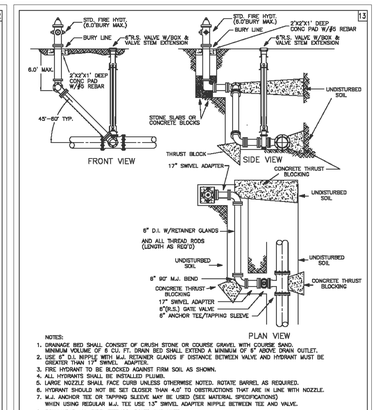
NOTES:
1. ALL SADDLES, STRAPS AND BOLTS SHALL BE POLYWRAPPED.
2. WHEN TAPPING MAIN USE 1" SERVICE TO NEW MAINS WHEN APPROVED BY OWNER.
3. ALL THREADED OUTLETS SHALL HAVE A DOUBLE WRAP OF TEFLON TAPE, TEFLON PASTE OR RECTORSEAL ON THREADS.
4. VALVE BOXES SHALL BE INSTALLED ON ALL BLOW OFF VALVES.
5. AFTER TESTING AND STERILIZATION IS COMPLETE, 2" GALV. PIPING TO BE REMOVED AND 2" VALVE PLUGGED.
6. RISER PIPE WILL BE PIPED INTO METER BOX AS SHOWN ONLY WHEN SPECIFIED.

2" SIDE BLOW OFF ASSEMBLY

06 Side Blowoff.dwg
2016 Revision



2" SAMPLE POINT ASSEMBLY

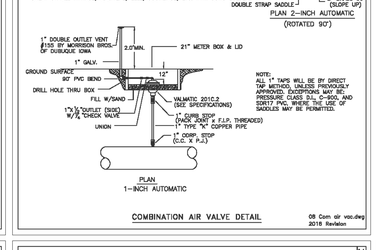


NOTE:
1. ALL THREADED CONNECTIONS SHALL HAVE A DOUBLE WRAP OF TEFLON TAPE, TEFLON PASTE OR RECTORSEAL ON THE THREAD.
2. VALVES WILL BE PIPED TO POINT BEYOND PAVEMENT AND SHOULDER.
3. COPPER PIPE SHALL SLOPE CONTINUOUSLY UPWARDS FROM MAIN TO AIR RELEASE.

2" END BLOW OFF ASSEMBLY

AIR RELEASE DETAIL

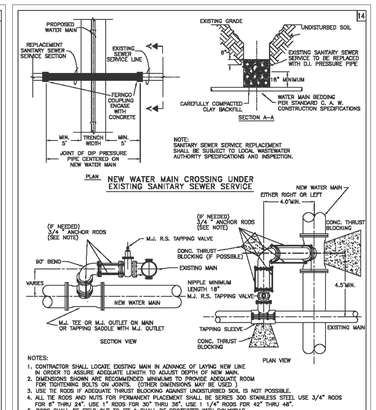
07 End blowoff&1 air release.dwg
2016 Revision



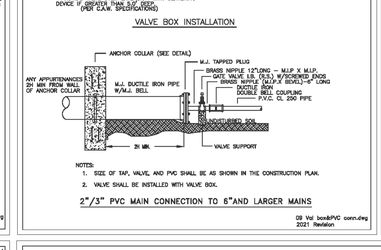
1. ALL THREADED CONNECTIONS SHALL HAVE A DOUBLE WRAP OF TEFLON TAPE, TEFLON PASTE OR RECTORSEAL ON THREADS.
2. VALVES WILL BE PIPED TO POINT BEYOND PAVEMENT AND SHOULDER.
3. PIPE BETWEEN 2" LB. VALVE AND AIR VALVE SHALL BE 2" TYPE "K" COPPER. SWEAT ON ALL FITTINGS, ADAPTERS, ELLS, COUPLINGS, ETC. WITH 95-5 SOLDER.

COMBINATION AIR VALVE DETAIL

08 Com. air vac.dwg
2018 Revision



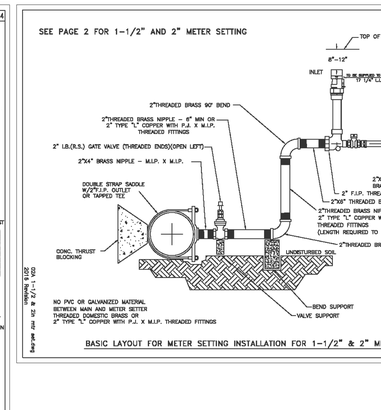
NOTE:
ALL 1" TAPS WILL BE BY DIRECT TAP METHOD, UNLESS PREVIOUSLY APPROVED. EXCEPTIONS MAY BE: PRESSURE CLASS D.I., C-900, AND SDR17 PVC, WHERE THE USE OF SADDLES MAY BE PERMITTED.



NOTES:
1. IF EXTENSION PIECE IS USED, ANOTHER VALVE BOX BOTTOM SECTION SHALL BE USED.
2. EXTENSION PIECE CAN BE CUT TO LENGTH REQUIRED.
3. USE SLIP TYPE BOTTOM OR CUT THREADS OFF SCREW TYPE BOX
4. IN UNDEVELOPED AREAS, CONSTRUCT A 2'X2'X0.5' THICK CLASS "A" CONC. PAD AROUND THE TOP OF THE VALVE BOX. REINFORCED WITH #5 REBAR

PROVIDE VALVE STEM EXTENSION WITH CENTERING DEVICE IF GREATER THAN 5.0' DEEP. (PER C.A.W. SPECIFICATIONS)

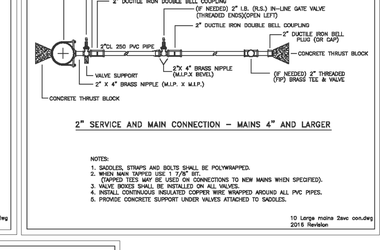
VALVE BOX INSTALLATION



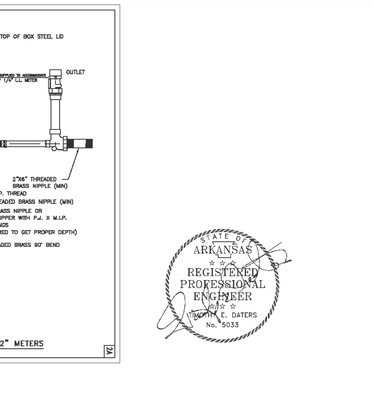
NOTES:
1. SIZE OF TAP, VALVE, AND PVC SHALL BE AS SHOWN IN THE CONSTRUCTION PLAN.
2. VALVE SHALL BE INSTALLED WITH VALVE BOX.

2"/3" PVC MAIN CONNECTION TO 6"AND LARGER MAINS

09 Val box&PVC conn.dwg
2021 Revision



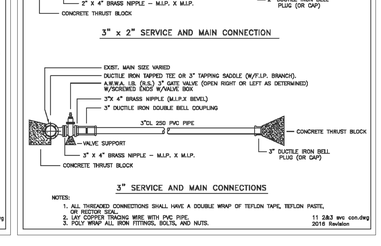
2" SERVICE AND MAIN CONNECTIONS – MAINS 4" AND LARGER



2" SERVICE AND MAIN CONNECTION – MAINS 4" AND LARGER

NOTES:
1. SADDLES, STRAPS AND BOLTS SHALL BE POLYWRAPPED.
2. WHEN MAINS TAPPED USE 1" SERVICE TO NEW MAINS WHEN SPECIFIED). (TAPPED TEES MAY BE USED ON CONNECTIONS TO NEW MAINS WHEN SPECIFIED).
3. VALVE BOXES SHALL BE INSTALLED ON ALL VALVES.
4. INSTALL CONTINUOUS INSULATED COPPER WIRE WRAPPED AROUND ALL PVC PIPES.
5. PROVIDE CONCRETE SUPPORT UNDER VALVES ATTACHED TO SADDLES.

10 Large mains 2aw con.dwg
2016 Revision



2" x 2" SERVICE AND MAIN CONNECTION

3" x 2" SERVICE AND MAIN CONNECTION

3" SERVICE AND MAIN CONNECTIONS

NOTES:
1. ALL THREADED CONNECTIONS SHALL HAVE A DOUBLE WRAP OF TEFLON TAPE, TEFLON PASTE, OR RECTOR SEAL.
2. LAY COPPER TRACING WIRE WITH PVC PIPE.
3. POLY WRAP ALL IRON FITTINGS, BOLTS, AND NUTS.

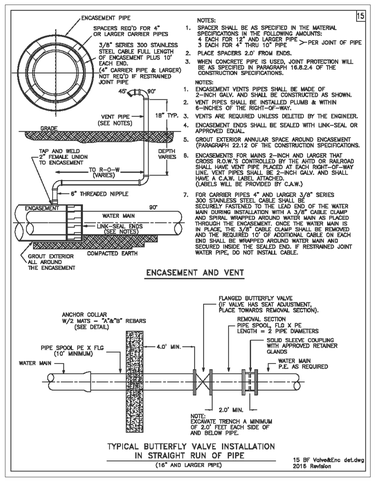
11 2&3 svc con.dwg
2016 Revision

ELEVATION VIEW / STANDARD ANCHOR TEE

ELEVATION VIEW / FLANGED OUTLET

CONCRETE PIPE – USE TANGENT FLANGE OUTLET.

NOTES:
1. DRAINAGE BED SHALL CONSIST OF CRUSH STONE OR COURSE GRAVEL WITH COURSE SAND. MINIMUM VOLUME OF 6 CU. FT. DRAIN BED SHALL EXTEND A MINIMUM OF 6" ABOVE DRAIN OUTLET.
2. USE 6" D.I. NIPPLE WITH M.J. RETAINER GLANDS IF DISTANCE BETWEEN VALVE AND HYDRANT MUST BE LESS THAN 3'. USE 6" D.I. SLEEVE.
3. FIRE HYDRANT TO BE BLOCKED AGAINST FIRM SOIL AS SHOWN.
4. ALL HYDRANTS SHALL BE INSTALLED PLUMB.
5. LARGE NOZZLE SHALL FACE CURB UNLESS OTHERWISE NOTED. ROTATE BARREL AS REQUIRED.
6. HYDRANT SHOULD NOT BE SET CLOSER THAN 4.0' TO OBSTRUCTIONS THAT ARE IN LINE WITH NOZZLE.
7. M.J. ANCHOR TEE OR TAPPING SLEEVE MAY BE USED (SEE MATERIAL SP



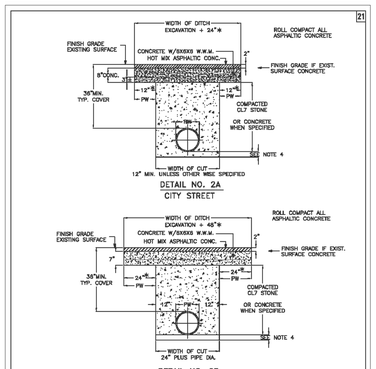
ENCASEMENT AND VENT

TYPICAL BUTTERFLY VALVE INSTALLATION IN STRAIGHT RUN OF PIPE (16" AND LARGER PIPE)

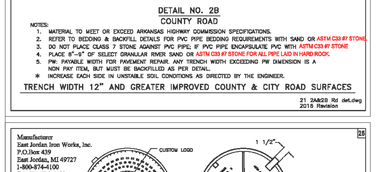
15 BF Valve&Enc det.dwg
2016 Revision

NOTES:
1. SPACER SHALL BE AS SPECIFIED IN THE MATERIAL SPECIFICATIONS IN THE FOLLOWING AMOUNTS: 4 EACH FOR 12" AND LARGER PIPE, 3 EACH FOR 4" THRU 10" PIPE
2. PLACE SPACERS 2.0' FROM ENDS.
3. WHEN CONCRETE PIPE IS USED, JOINT PROTECTION WILL BE AS SPECIFIED IN PARAGRAPH 18.8.2.4 OF THE CONSTRUCTION SPECIFICATIONS.

NOTES:
1. ENCASEMENT VENTS PIPES SHALL BE MADE OF 2-INCH GALV. AND SHALL BE CONSTRUCTED AS SHOWN.
2. VENT PIPES SHALL BE INSTALLED PLUMB & WITHIN 6-INCHES OF THE RIGHT-OF-WAY.
3. VENTS ARE REQUIRED UNLESS DELETED BY THE ENGINEER.
4. ENCASEMENT ENDS SHALL BE SEALED WITH LINK-SEAL OR APPROVED EQUAL.
5. GROUT EXTERIOR ANNULAR SPACE AROUND ENCASEMENT (PARAGRAPH 22.12 OF THE CONSTRUCTION SPECIFICATIONS.
6. ENCASEMENTS FOR MAINS 2-INCH AND LARGER THAT CROSS UNDER THE RIGHT-OF-WAY OF ANY ROAD SHALL HAVE VENT PIPES PLACED AT EACH RIGHT-OF-WAY LINE. VENT PIPES SHALL BE 2-INCH GALV. AND SHALL HAVE A C.A.W. LABEL ATTACHED. (LABELS WILL BE PROVIDED BY C.A.W.)
7. FOR CARRIER PIPES 4" AND LARGER 3/8" SERIES 300 STAINLESS STEEL CABLE SHALL BE SECURELY FASTENED TO THE END RING OF THE WATER MAIN DURING INSTALLATION WITH A 3/8" CABLE CLAMP. AFTER THE CARRIER PIPE HAS BEEN PUSHED OR PULLED THROUGH THE ENCASEMENT, ONCE THE WATER MAIN IS IN PLACE, THE 3/8" CABLE CLAMP SHALL BE REMOVED AND THE REQUIRED 10' OF ADDITIONAL CABLE ON EACH END SHALL BE WRAPPED AROUND WATER MAIN AND SECURED INSIDE THE SEALED END. IF RESTRAINED JOINT WATER PIPE, DO NOT INSTALL CABLE.



DETAIL NO. 2A
CITY STREET



DETAIL NO. 2B
COUNTY ROAD

NOTES:
1. MATERIAL TO MEET OR EXCEED ARKANSAS HIGHWAY COMMISSION SPECIFICATIONS.
2. REFER TO BEDDING & BACKFILL DETAILS FOR PVC PIPE BEDDING REQUIREMENTS WITH SAND OR ASTM C33 #7 STONE.
3. DO NOT PLACE CLASS 7 STONE AGAINST PVC PIPE; IF PVC PIPE ENCAPSULATE PVC WITH ASTM C33 #7 STONE.
4. PLACE 6"-9" OF SELECT GRANULAR RIVER SAND OR ASTM C33 #7 STONE FOR ALL PIPE LAID IN HARD ROCK.
5. PW: PAYABLE WIDTH FOR PAVEMENT REPAIR; ANY TRENCH WIDTH EXCEEDING PW DIMENSION IS A NON PAY ITEM, BUT MUST BE BACKFILLED AS PER DETAIL.
* INCREASE EACH SIDE IN UNSTABLE SOIL CONDITIONS AS DIRECTED BY THE ENGINEER.

TRENCH WIDTH 12" AND GREATER IMPROVED COUNTY & CITY ROAD SURFACES

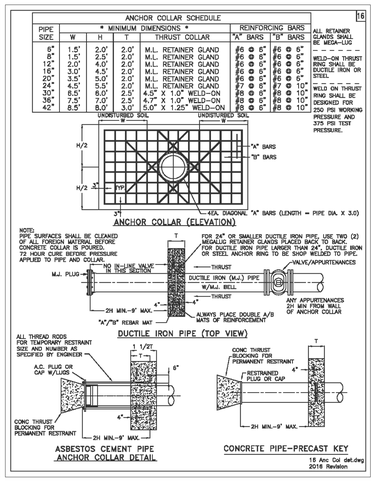
21 2A&2B Rd det.dwg
2016 Revision

ANCHOR COLLAR SCHEDULE						
PIPE SIZE	* MINIMUM DIMENSIONS * W	H	T	THRUST COLLAR	REINFORCING BARS "A" BARS	"B" BARS
6"	1.5'	2.0'	2.0'	M.L. RETAINER GLAND	#6 @ 6"	#6 @ 6"
8"	1.5'	2.5'	2.0'	M.L. RETAINER GLAND	#6 @ 6"	#6 @ 6"
12"	2.0'	4.0'	2.0'	M.L. RETAINER GLAND	#6 @ 6"	#6 @ 6"
16"	3.0'	4.5'	2.0'	M.L. RETAINER GLAND	#6 @ 6"	#6 @ 6"
20"	3.5'	5.0'	2.0'	M.L. RETAINER GLAND	#6 @ 6"	#6 @ 6"
24"	4.5'	5.5'	2.0'	M.L. RETAINER GLAND	#7 @ 6"	#7 @ 10'
30"	6.5'	6.0'	2.5'	4.5" X 1.0" WELD-ON	#8 @ 6"	#8 @ 10'
36"	7.5'	7.0'	2.5'	4.7" X 1.0" WELD-ON	#8 @ 6"	#8 @ 10'
42"	8.5'	8.0'	3.0'	5.0" X 1.25" WELD-ON	#8 @ 6"	#8 @ 10'

ALL RETAINER GLANDS SHALL BE MEGA-LUG

WELD-ON THRUST RING SHALL BE DUCTILE IRON OR STEEL.

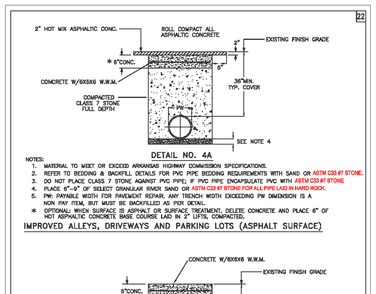
WELD ON THRUST RING SHALL BE DESIGNED FOR 250 PSI WORKING PRESSURE AND 375 PSI TEST PRESSURE.



3" ANCHOR COLLAR (ELEVATION)

NOTE:
PIPE SURFACES SHALL BE CLEANED OF ALL FOREIGN MATERIAL BEFORE CONCRETE COLLAR IS POURED. 72 HOUR CURE BEFORE PRESSURE APPLIED TO PIPE AND COLLAR.

DUCTILE IRON PIPE (TOP VIEW)

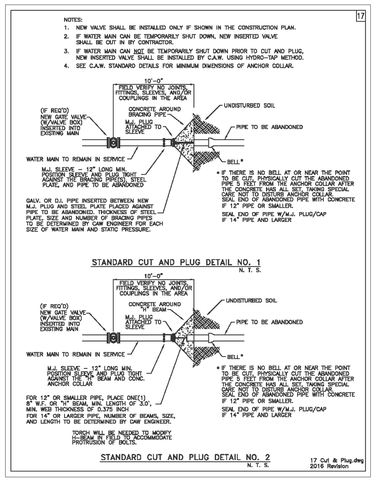


ASBESTOS CEMENT PIPE ANCHOR COLLAR DETAIL

CONCRETE PIPE-PRECAST KEY

16 Anc Col det.dwg
2016 Revision

NOTES:
1. NEW VALVE SHALL BE INSTALLED ONLY IF SHOWN IN THE CONSTRUCTION PLAN.
2. IF WATER MAIN CAN BE TEMPORARILY SHUT DOWN, NEW INSERTED VALVE SHALL BE CUT IN BY CONTRACTOR.
3. IF WATER MAIN CAN NOT BE TEMPORARILY SHUT DOWN PRIOR TO CUT AND PLUG, NEW INSERTED VALVE SHALL BE INSTALLED BY C.A.W. USING HYDRO-TAP METHOD.
4. SEE C.A.W. STANDARD DETAILS FOR MINIMUM DIMENSIONS OF ANCHOR COLLAR.

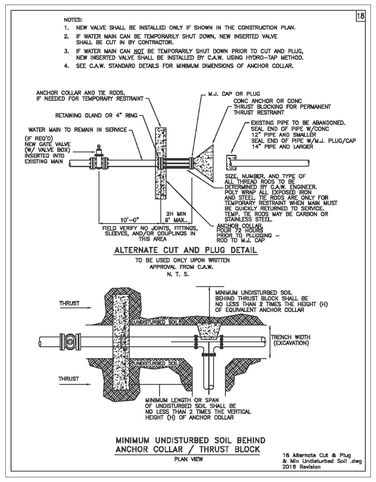


STANDARD CUT AND PLUG DETAIL NO. 1
N. T. S.

STANDARD CUT AND PLUG DETAIL NO. 2
N. T. S.

17 Cut & Plug.dwg
2016 Revision

NOTES:
1. NEW VALVE SHALL BE INSTALLED ONLY IF SHOWN IN THE CONSTRUCTION PLAN.
2. IF WATER MAIN CAN BE TEMPORARILY SHUT DOWN, NEW INSERTED VALVE SHALL BE CUT IN BY CONTRACTOR.
3. IF WATER MAIN CAN NOT BE TEMPORARILY SHUT DOWN PRIOR TO CUT AND PLUG, NEW INSERTED VALVE SHALL BE INSTALLED BY C.A.W. USING HYDRO-TAP METHOD.
4. SEE C.A.W. STANDARD DETAILS FOR MINIMUM DIMENSIONS OF ANCHOR COLLAR.



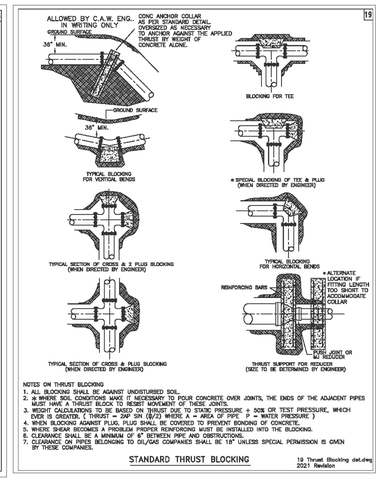
ALTERNATE CUT AND PLUG DETAIL

TO BE USED ONLY UPON WRITTEN APPROVAL FROM C.A.W.
N. T. S.

MINIMUM UNDISTURBED SOIL BEHIND ANCHOR COLLAR / THRUST BLOCK

PLAN VIEW

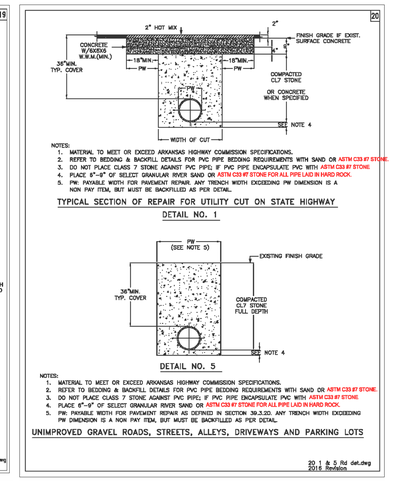
16 Alternate Cut & Plug & Min Undisturbed Soil .dwg
2018 Revision



NOTES ON THRUST BLOCKING
1. ALL BLOCKING SHALL BE AGAINST UNDISTURBED SOIL.
2. IN WHERE SOIL CONDITIONS MAKE IT NECESSARY TO POUR CONCRETE OVER JOINTS, THE ENDS OF THE ADJACENT PIPES MUST HAVE A THRUST BLOCK TO RESIST MOVEMENT OF THESE JOINTS.
3. WEIGHT CALCULATIONS TO BE BASED ON THRUST DUE TO STATIC PRESSURE + 50% OR TEST PRESSURE, WHICH EVER IS GREATER. (THRUST = 2WP SIN (D/2) WHERE A = AREA OF PIPE P = WATER PRESSURE)
4. WHEN BLOCKING AGAINST PLUG, PLUG SHALL BE COVERED TO PREVENT BONDING OF CONCRETE.
5. WHERE SHEAR BECOMES A PROBLEM PROPER REINFORCING MUST BE INSTALLED INTO THE BLOCKING.
6. CLEARANCE SHALL BE A MINIMUM OF 6" BETWEEN PIPE AND OBSTRUCTIONS.
7. CLEARANCE ON PIPES BELONGING TO OIL/GAS COMPANIES SHALL BE 18" UNLESS SPECIAL PERMISSION IS GMN BY THESE COMPANIES.

STANDARD THRUST BLOCKING

19 Thrust Blocking det.dwg
2021 Revision



TYPICAL SECTION OF REPAIR FOR UTILITY CUT ON STATE HIGHWAY

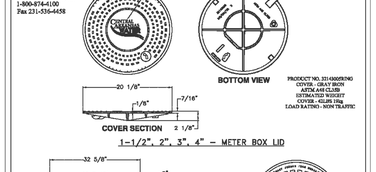
DETAIL NO. 1

DETAIL NO. 5

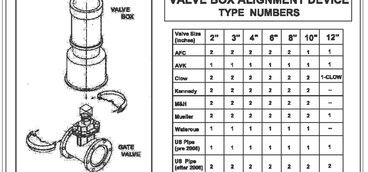
NOTES:
1. MATERIAL TO MEET OR EXCEED ARKANSAS HIGHWAY COMMISSION SPECIFICATIONS.
2. REFER TO BEDDING & BACKFILL DETAILS FOR PVC PIPE BEDDING REQUIREMENTS WITH SAND OR ASTM C33 #7 STONE.
3. DO NOT PLACE CLASS 7 STONE AGAINST PVC PIPE; IF PVC PIPE ENCAPSULATE PVC WITH ASTM C33 #7 STONE.
4. PLACE 6"-9" OF SELECT GRANULAR RIVER SAND OR ASTM C33 #7 STONE FOR ALL PIPE LAID IN HARD ROCK.
5. PW: PAYABLE WIDTH FOR PAVEMENT REPAIR; ANY TRENCH WIDTH EXCEEDING PW DIMENSION IS A NON PAY ITEM, BUT MUST BE BACKFILLED AS PER DETAIL.

UNIMPROVED GRAVEL ROADS, STREETS, ALLEYS, DRIVEWAYS AND PARKING LOTS

20 1 & 5 Rd det.dwg
2016 Revision



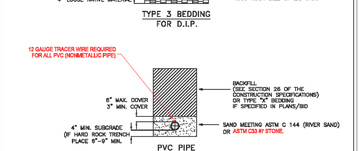
DETAIL NO. 4A
IMPROVED ALLEYS, DRIVEWAYS AND PARKING LOTS (ASPHALT SURFACE)



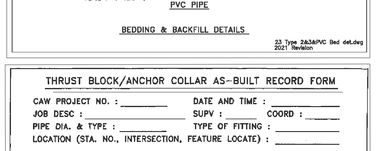
DETAIL NO. 4B
IMPROVED ALLEYS, DRIVEWAYS AND PARKING LOTS (CONCRETE SURFACE)

NOTES:
1. MATERIAL TO MEET OR EXCEED ARKANSAS HIGH-WAY COMMISSION SPECIFICATIONS.
2. REFER TO BEDDING & BACKFILL DETAILS FOR PVC PIPE BEDDING REQUIREMENTS WITH SAND OR ASTM C33 #7 STONE.
3. DO NOT PLACE CLASS 7 STONE AGAINST PVC PIPE; IF PVC PIPE ENCAPSULATE PVC WITH ASTM C33 #7 STONE.
4. PLACE 6"-9" OF SELECT GRANULAR RIVER SAND OR ASTM C33 #7 STONE FOR ALL PIPE LAID IN HARD ROCK.
5. PW: PAYABLE WIDTH FOR PAVEMENT REPAIR; ANY TRENCH WIDTH EXCEEDING PW DIMENSION IS A NON PAY ITEM, BUT MUST BE BACKFILLED AS PER DETAIL.
* OPTIONAL: WHEN SURFACE IS ASPHALT OR SURFACE TREATMENT, DELETE CONCRETE AND PLACE 6" OF HOT ASPHALTIC CONCRETE BASE COURSE LAID IN 2" LIFTS, COMPACTED.

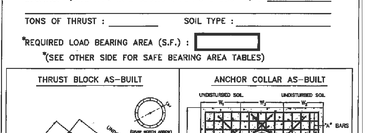
22 4A&4B Rd det.dwg
2016 Revision



TYPE 2 BEDDING FOR D.I.P.



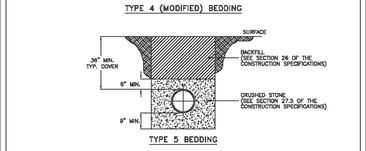
TYPE 3 BEDDING FOR D.I.P.



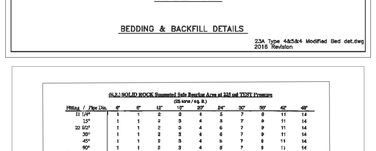
PVC PIPE

BEDDING & BACKFILL DETAILS

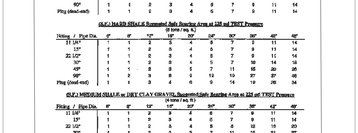
23 Type 2&3&PVC Bed det.dwg
2021 Revision



TYPE 4 BEDDING



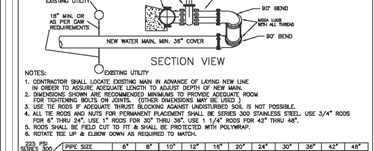
TYPE 4 (MODIFIED) BEDDING



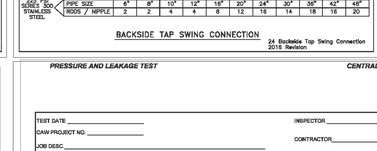
TYPE 5 BEDDING

BEDDING & BACKFILL DETAILS

23A Type 4&5&4 Modified Bed det.dwg
2021 Revision



PLAN VIEW



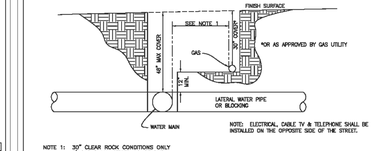
SECTION VIEW

NOTES:
1. CONTRACTOR SHALL LOCATE EXISTING MAIN IN ADVANCE OF LAYING NEW LINE IN ORDER TO ASSURE ADEQUATE LENGTH TO ADJUST DEPTH OF NEW MAIN.
2. DIMENSIONS SHOWN ARE RECOMMENDED MINIMUMS TO PROVIDE ADEQUATE ROOM FOR TIGHTENING BOLTS ON JOINTS. (OTHER DIMENSIONS MAY BE USED)
3. USE TIE RODS IF ADEQUATE THRUST BLOCKING AGAINST UNDISTURBED SOIL IS NOT POSSIBLE.
4. ALL TIE RODS AND NUTS FOR PERMANENT PLACEMENT SHALL BE SERIES 300 STAINLESS STEEL. USE 3/4" RODS FOR 6" THRU 24". USE 1" RODS FOR 30" THRU 36". USE 1 1/4" RODS FOR 42" THRU 48".
5. RODS SHALL BE FIELD CUT TO FIT & SHALL BE PROTECTED WITH POLYWRAP.
6. ROTATE TEE UP & ELBOW DOWN AS REQUIRED TO MATCH.

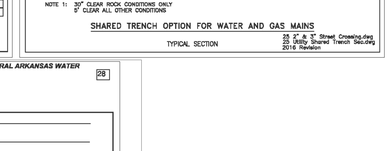
223, PE, SERIES 300 STAINLESS STEEL	PIPE SIZE	6"	8"	10"	12"	16"	20"	24"	30"	36"	42"	48"
	RODS / NIPPLE	2	2	4	4	8	12	16	14	18	16	20

BACKSIDE TAP SWING CONNECTION

24 Backside Tap Swing Connection
2015 Revision



2" & 3" SERVICE STREET CROSSING LOCATION



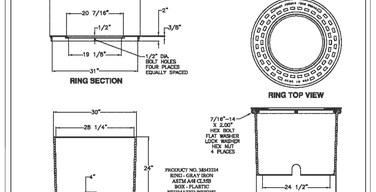
NOTE 1: 30" CLEAR ROCK CONDITIONS ONLY
9" CLEAR ALL OTHER CONDITIONS

SHARED TRENCH OPTION FOR WATER AND GAS MAINS

TYPICAL SECTION

25 3" & 5" Street Crossing.dwg
25 Utility Shared Trench Sec.dwg
2018 Revision

Manufacturer
East Jordan Iron Works, Inc.
P.O.Box 439
East Jordan, MI 49727
1-800-874-4100
Fax 231-536-4458



1-1/2", 2", 3", 4" – METER BOX LID

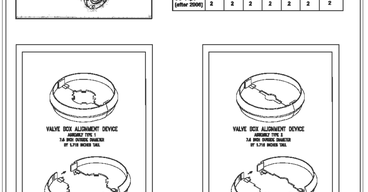
1-1/2", 2", 3", 4" – METER BOX & LID RING

26 1-5 INCH AND LARGER METER BOX & LID & RING.dwg
2016 Revision

BOXLOK

VALVE BOX ALIGNMENT DEVICE TYPE NUMBERS

Valve Size (Inches)	2"	3"	4"	6"	8"	10"	12"
AFC	2	2	2	2	2	1	1
AVK	1	1	1	1	1	1	1
Clow	2	2	2	2	2	2	1-CLOW
Kennedy	2	2	2	2	2	2	--
M&H	2	2	2	2	2	2	--
Mueller	2	2	2	2	2	2	1
Waterous	1	1	1	1	1	1	--
US Pipe (pre 2006)	1	1	1	1	1	1	1
US Pipe (after 2006)	2	2	2	2	2	2	2

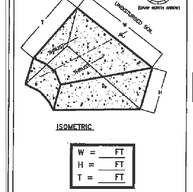


Valve Box Alignment Device.dwg
2016 Revision

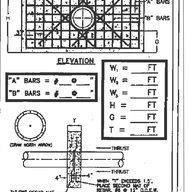
THRUST BLOCK/ANCHOR COLLAR AS-BUILT RECORD FORM

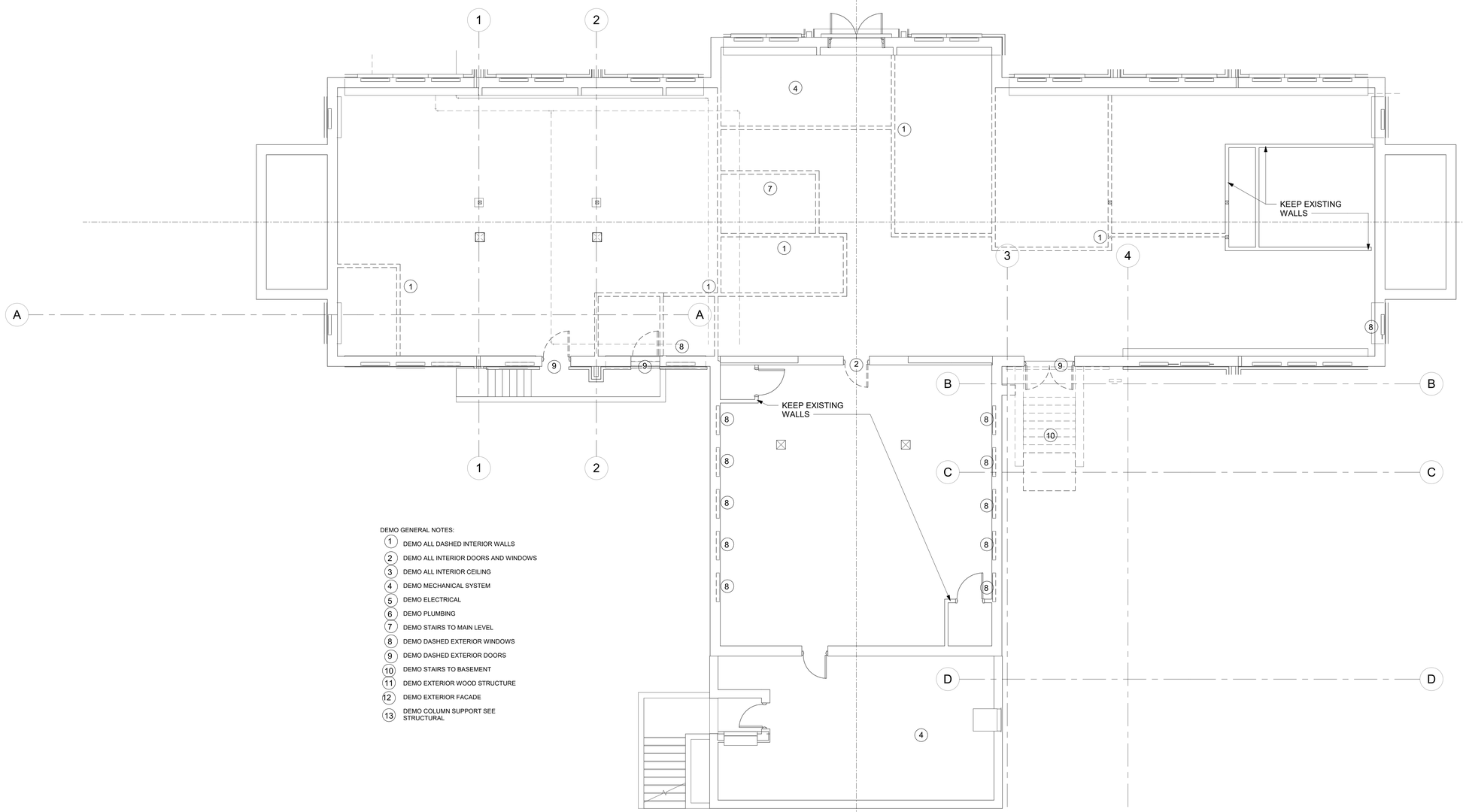
CAW PROJECT NO. : _____ DATE AND TIME : _____
JOB DESC : _____ SUPV : _____ COORD : _____
PIPE DIA. & TYPE : _____ TYPE OF FITTING : _____
LOCATION (STA. NO., INTERSECTION, FEATURE LOCATE) : _____
TONS OF THRUST : _____ SOIL TYPE : _____
*REQUIRED LOAD BEARING AREA (S.F.) : _____
*(SEE OTHER SIDE FOR SAFE BEARING AREA TABLES)

THRUST BLOCK AS-BUILT



ANCHOR COLLAR AS-BUILT


UNDISTURBED SOIL
UNDISTURBED SOIL
"A" BARS
"B" BAR



DEMO GENERAL NOTES:

1. DEMO ALL DASHED INTERIOR WALLS
2. DEMO ALL INTERIOR DOORS AND WINDOWS
3. DEMO ALL INTERIOR CEILING
4. DEMO MECHANICAL SYSTEM
5. DEMO ELECTRICAL
6. DEMO PLUMBING
7. DEMO STAIRS TO MAIN LEVEL
8. DEMO DASHED EXTERIOR WINDOWS
9. DEMO DASHED EXTERIOR DOORS
10. DEMO STAIRS TO BASEMENT
11. DEMO EXTERIOR WOOD STRUCTURE
12. DEMO EXTERIOR FACADE
13. DEMO COLUMN SUPPORT SEE STRUCTURAL

1 DEMO - BASEMENT FLOOR PLAN
3/16" = 1'-0"

6/9/2026 2:08:05 PM Autodesk Docs://St John's Byrne Hall Renovation/25-043 Byrne Hall Reno_R25_SD.rvt

WDD ARCHITECTS

REGISTERED ARCHITECT
W. TITTENBERGER
DELOS
ARKANSAS
6/9/26

PROJECT TITLE

ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST
LITTLE ROC, AR 72207

CONTENTS

DEMOLITION PLAN - BASEMENT

REVISIONS

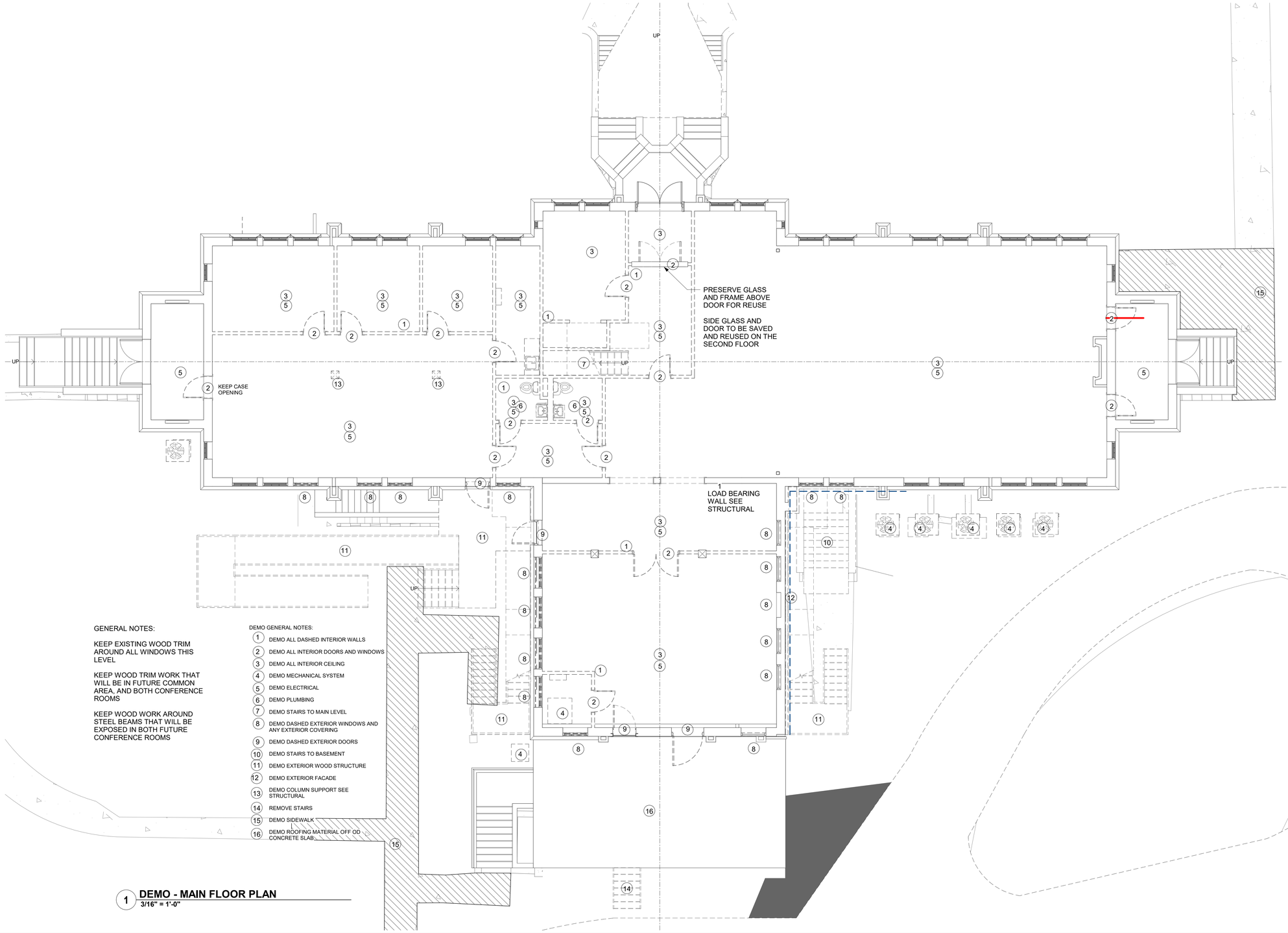
NO.	DATE	DESCRIPTION

25-043
JOB. NO.

6/9/26
DATE
100% CONSTRUCITION DOCUMENTS

SHEET

D1.0



GENERAL NOTES:

KEEP EXISTING WOOD TRIM AROUND ALL WINDOWS THIS LEVEL

KEEP WOOD TRIM WORK THAT WILL BE IN FUTURE COMMON AREA, AND BOTH CONFERENCE ROOMS

KEEP WOOD WORK AROUND STEEL BEAMS THAT WILL BE EXPOSED IN BOTH FUTURE CONFERENCE ROOMS

DEMO GENERAL NOTES:

1. DEMO ALL DASHED INTERIOR WALLS
2. DEMO ALL INTERIOR DOORS AND WINDOWS
3. DEMO ALL INTERIOR CEILING
4. DEMO MECHANICAL SYSTEM
5. DEMO ELECTRICAL
6. DEMO PLUMBING
7. DEMO STAIRS TO MAIN LEVEL
8. DEMO DASHED EXTERIOR WINDOWS AND ANY EXTERIOR COVERING
9. DEMO DASHED EXTERIOR DOORS
10. DEMO STAIRS TO BASEMENT
11. DEMO EXTERIOR WOOD STRUCTURE
12. DEMO EXTERIOR FACADE
13. DEMO COLUMN SUPPORT SEE STRUCTURAL
14. REMOVE STAIRS
15. DEMO SIDEWALK
16. DEMO ROOFING MATERIAL OFF OD CONCRETE SLAB

1 DEMO - MAIN FLOOR PLAN
3/16" = 1'-0"

6/9/2026 2:38:07 PM
Autodesk Docs://St John's Byrne Hall Renovation/25-043 Byrne Hall Reno_R25_RD.rvt

WDD ARCHITECTS

REGISTERED ARCHITECT
WILLIAM E. DELONG
ARKANSAS
6/9/26

PROJECT TITLE

ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST.
LITTLE ROC, AR 72207

CONTENTS

DEMOLITION PLAN - MAIN LEVEL

REVISIONS

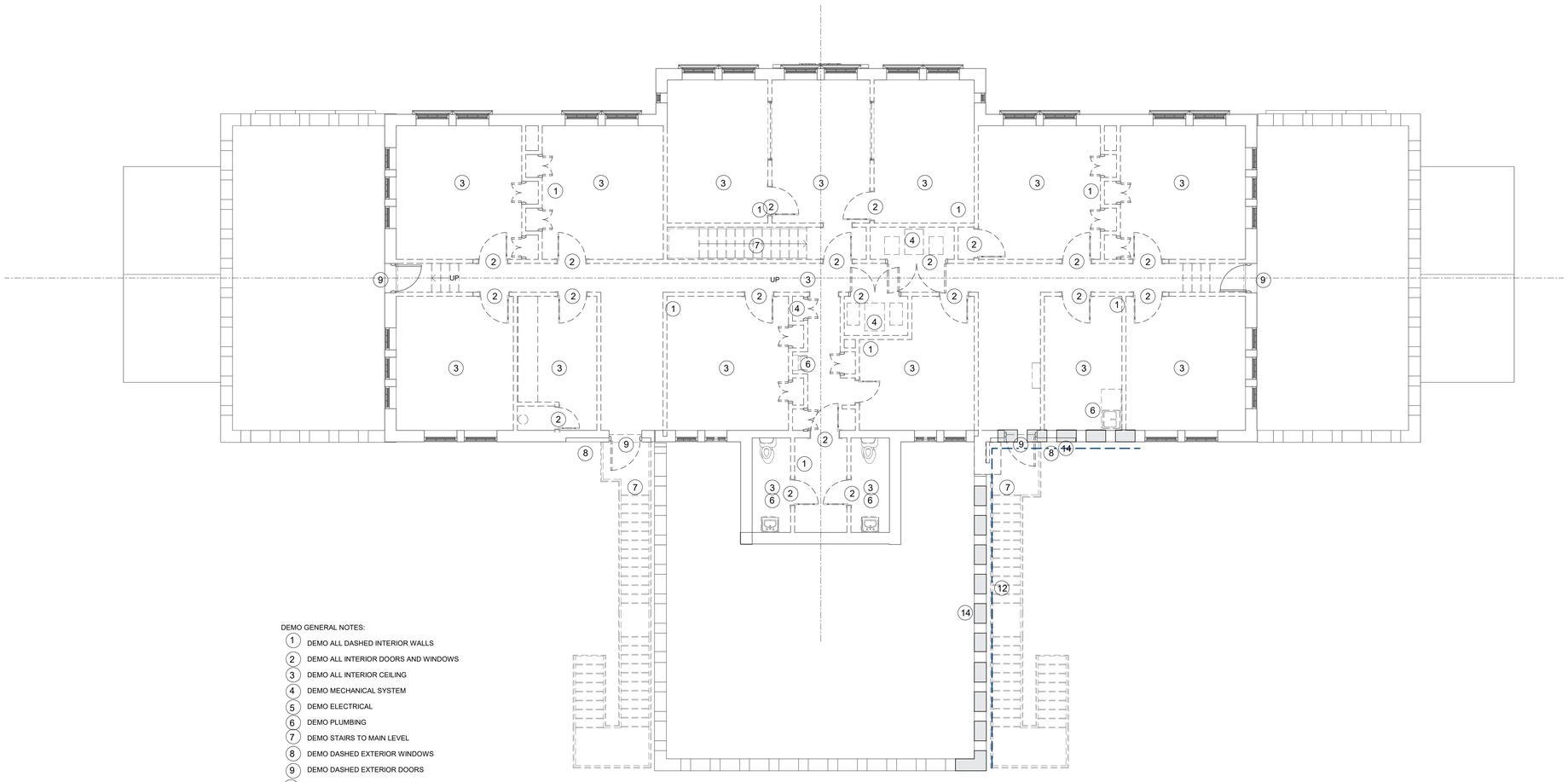
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25-043
JOB. NO.

6/9/26
DATE
100% CONSTRUCTION DOCUMENTS

SHEET

D1.1



DEMO GENERAL NOTES:

1. DEMO ALL DASHED INTERIOR WALLS
2. DEMO ALL INTERIOR DOORS AND WINDOWS
3. DEMO ALL INTERIOR CEILING
4. DEMO MECHANICAL SYSTEM
5. DEMO ELECTRICAL
6. DEMO PLUMBING
7. DEMO STAIRS TO MAIN LEVEL
8. DEMO DASHED EXTERIOR WINDOWS
9. DEMO DASHED EXTERIOR DOORS
10. DEMO STAIRS TO BASEMENT
11. DEMO EXTERIOR WOOD STRUCTURE
12. DEMO EXTERIOR FACADE
13. DEMO COLUMN SUPPORT SEE STRUCTURAL
14. REMOVE MERLIN (HIGH PART IN GRAY) OF CRENELATION ALONG THIS ROOF TOP EDGE

1 DEMO - UPPER FLOOR PLAN
3/16" = 1'-0"

6/9/2026 7:38:08 PM Autodesk Docs://St John's Byrne Hall Renovation/25-043 Byrne Hall Reno_R25_D2.rvt

WDD ARCHITECTS

REGISTERED ARCHITECT
WILLIAM E. DELONG
ARKANSAS
6/9/26

PROJECT TITLE

ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST.
LITTLE ROC, AR 72207

CONTENTS

DEMOLITION PLAN - UPPER LEVEL

REVISIONS

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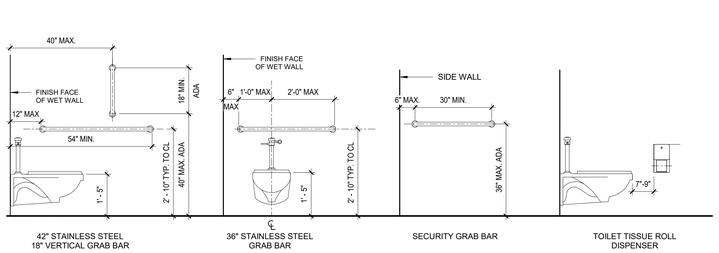
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JOB. NO.

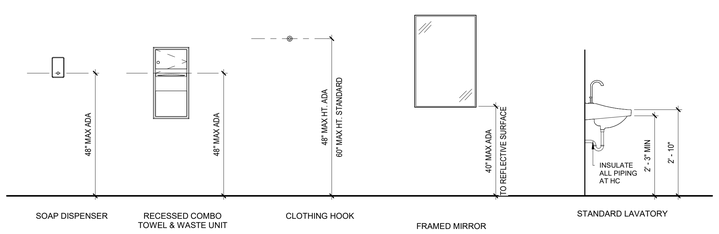
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DATE
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SHEET

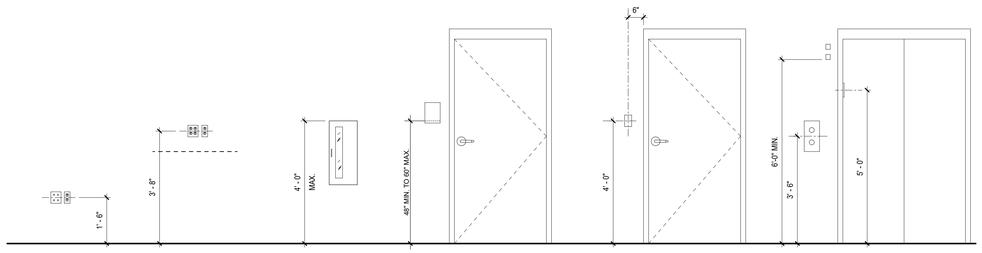
D1.2

MOUNTING HEIGHT LEGEND - TOILET / PLUMBING / ACCESSORIES





MOUNTING HEIGHT LEGEND - SIGNAGE / POWER



ABBREVIATIONS

@	AT
A/C	AIR CONDITIONING
ABV	ABOVE
AC	ACOUSTICAL
AC	ACOUSTICAL CLOUD
ACC	ACCESS
ACT	ACOUSTICAL CEILING TILE
ADB	AUTOMATIC DOOR BUTTON
ADH	ADHESIVE
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AGGR	AGGREGATE
AL / ALUM	ALUMINUM
ALT	ALTERNATE
AMT	AMOUNT
ANOD	ANODIZED
AP	ACRYLIC PANEL
APPROX	APPROXIMATE
APT	APARTMENT
ARCH	ARCHITECT / ARCHITECTURAL
ASPH	ASPHALT
AVE	AVENUE
AWT	ACCOUSTICAL WALL TREATMENT
BD	BOARD
BET	BETWEEN
BL	BUILDING LINE
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BLVD	BOULEVARD
BM	BEAM
BM	BENCH MARK
BOT	BOTTOM
BRK	BRICK
BRZ	BRONZE
BUR	BUILT UP ROOFING
C TO C	CENTER TO CENTER
C.F.C.I.	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CAB	CABINET
CB	CATCH BASIN
CEM	CEMENT
CER	CERAMIC
CFM	CUBIC FEET PER MINUTE
CFMF	COLD FORM METAL FRAMING
CG	CORNER GUARD
CHG	CHANGE
CI	CAST IRON
CJ	CONTROL JOINT
CLG	CEILING
CLKG	CAULK(ING) / CALK(ING)
CLO	CLOSET
CLR	CLEAR / CLEARANCE
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
CO	COMPANY
COL	COLUMN
COMB	COMBINATION
COMPT	COMPARTMENT
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS OR CONTINUE
CONTR	CONTRACT / CONTRACTOR
CORR	CORRUGATED
CPT	MODULAR CARPET TILE
CT	CERAMIC TILE
CTD	COATED
CTR	COUNTER
CTSK	COUNTERSUNK SCREW
CU FT	CUBIC FOOT
CU IN	CUBIC INCH
CU YD	CUBIC YARD
CW	COLD WATER
DA	DOUBLE ACTING
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DP	DAMPPROOFING
DS	DOUNSPOUT
DTL	DETAIL
DW	DISHWASHER
DWC	DIGITAL WALLCOVERING
DWG	DRAWING
E	EAST
EA	EACH
EF	EACH FACE
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EMER	EMERGENCY
ENC	ENCLOSE / ENCLOSURE
ENGR	ENGINEER
ENT	ENTRANCE
EPB	EPOXY BASE
EPT	EPOXY PATIN
EQ	EQUAL
ERD	EMERGENICE ROOF DRAIN
ESC	ESCUTCHEON
EST	ESTIMATE
ETR	EXISTING TO REMAIN
ETS	EXTRUDED THERMOFORMABLE SHEET
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP	EXPOSED
EXP JT	EXPANSION JOINT
EXT	EXTERIOR
F TO F	FACE TO FACE
FB	FACE BRICK
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FE/BC	FIRE BLANKET / EXTINGUISHER CABINET
FEC	FIRE EXTINGUISHER CABINET
FFE	FINISH FLOOR ELEVATION
FFL	FINISH FLOOR LINE
FHY	FIRE HYDRANT
FIN	FINISH(ED)
FIX	FIXTURE
FL	FLASHING
FLR	FLOOR / FLOORING
FLUOR	FLUORESCENT
FND	FOUNDATION
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOS	FACE OF STUD
FPM	FEET PER MINUTE
FR	FIRE RETARDANT
FT	FOOT / FEET
FTG	FOOTING
FUR	FURRED / FURRING
FUT	FUTURE
G	GUTTER
GA	GAGE / GAUGE
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GD	GRADE / GRADING
GI	GALVANIZED IRON
GL	GLASS / GLAZING
GLB	GLASS BLOCK
GP	GLASS PANEL
GT	GROUT
GV	GALVANIZED
GVL	GRAVEL
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HB	HOSE BIB
HC	HOLLOW CORE
HDF	HANDICAP DRINKING FOUNTAIN
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HOR	HORIZONTAL
HR	HOUR
HT	HEIGHT
HVAC	HEATING / VENTILATION / AIR CONDITIONING
HW	HOT WATER
HWH	HOT WATER HEATER
ID	INSIDE DIAMETER
IN	INCH
INCL	INCLUDE / INCLUDED
INFO	INFORMATION
INS	INSULATED
INT	INTERIOR
INV	INVERT
JC	JANITOR'S CLOSET
JT	JOINT
KD	KILN-DRIED
KIT	KITCHEN
LAB	LABORATORY
LAD	LADDER
LAM	LAMINATE / LAMINATED
LAV	LABATORY
LB	POUND OR #
LH	LEFT HAND
LMS	LIMESTONE
LPT	LOW POINT
LT	LIGHT
LVR	LOUVER
LVT	LUXURY VINYL TILE
LW	LIGHTWEIGHT
LWC	LIGHTWEIGHT CONCRETE
MAS	MASONRY
MAX	MAXIMUM
MBR	MEMBER
MC	MEDICINE CABINET
MCB	METAL CASING / CORNER BEAD
MECH	MECHANICAL
MED	MEDIUM
MET	METAL
MFR	MANUFACTURE / MANUFACTURER
MH	MANHOLD
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MLDG	MOLDING / MOULDING
MO	MASONRY OPENING
MRB	MARBLE
MRD	METAL ROOF DECKING
MT	METAL THRESHOLD
MTL	MATERIAL
MTRF	METAL FURRING
MULL	MULLION
N	NORTH
NAT	NATURAL
NC	NON COMBUSTIBLE
NIC	NOT IN CONTRACT
NL	NO LIMIT
NOM	NOMINAL
NTS	NOT TO SCALE
O TO O	OUT TO OUT
O.F.C.I.	OWNER FURNISHED CONTRACTOR INSTALLED
O.F.O.I.	OWNER FURNISHED OWNER INSTALLED
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
OPG	OPENING
OPP	OPPOSITE
P	PAINT
PC	POLISHED CONCRETE
PD	PAINT DESIGN
PFN	PREFINISHED
PG	PLATE GLASS
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLT	PLATE
PREFAB	PREFABRICATED
PROP	PROPERTY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PORCELAIN TILE
PTB	PORCELAIN TILE BASE
PWD	PLYWOOD
QT	QUARRY TILE
QTY	QUANTITY
R	RISER
RA	RETURN AIR
RAD	RADIUS
RB	RUBBER BASE /RESILIENT BASE
RBF	RUBBER FLOORING
RBN	RUBBER NOSING
RBT	RUBBER TILE
RD	ROOF DRAIN
RE	REFER TO
RECP	RECEPTACLE
REF	REFERENCE
REFL	REFLECTIVE
REG	REGISTER
REINF	REINFORCING
REM	REMOVE
REQD	REQUIRED
RES	RESILIENT
RET	RETURN
REV	REVISION / REVISIONS / REVISED
RFG	ROOFING
RFH	ROOF HATCH
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RS	ROLLER SHADE
S	SOUTH
SC	SOLID CORE
SC	SEALED CONCRETE
SCH	SCHEDULE
SCN	SCREEN
SD	STORM DRAIN
SEC	SECTION
SF	SPORTS FLOORING
SFGL	SAFETY GLASS
SH	SHELF / SHELVING
SHT	SHEET
SHTH	SHEATHING
SIM	SIMILAR
SNT	SEALANT
SPEC	SPECIFICATION(S)
SPK	SPEAKER
SQ	SQUARE
SQ FT	SQUARE FOOT
SS	SOLID SURFACE
SSK	SERVICE SINK
SST	STAINLESS STEEL
ST	STREET
STA	STATION
STD	STANDARD
STG	SEATING
STL	STEEL
STO	STORAGE
STR	STRUCTURAL
SUS	SUSPENDED
SWS	SPECIAL WALL SURFACING
SYS	SYSTEM
T	TREAD
T&G	TONGUE AND GROOVE
TC	TOP OF CURB
TEL	TELEPHONE
THR	THRESHOLD
THX	THICK / THICKNESS
TI	TOP OF INLET
TKBD	TACKBOARD
TP	TOILET PARTITION
TS	TRANSITION STRIP
TSL	TOP OF SLAB
TST	TOP OF WALL
TV	TELEVISION WALL BRACKET
TYP	TYPICAL
TZ	TERRAZZO
UL	UNDERWRITERS LAB
UNFIN	UNFINISHED
UON	UNLESS OTHERWISE NOTED
UR	URINAL
VB	VAPOR BARRIER
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VIN	VINYL
VNR	VENEER
VSF	VINYL SPORTS FLOORING
VT	VINYL TILE
VWC	VINYL WALL COVERING
W	WEST
W	WIDTH / WIDE
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WF	WIDE FLANGE
WG	WIRED GLASS
WH	WEEPHOLE
WHB	WHEEL BUMPER
WM	WIRE MESH
WOC	WALK OFF CARPET
WP	WATERPROOFING
WP	WALL PROTECTION
WPT	WORKING POINT
WS	WHEELSTOP
WSCT	WAINSCOT
WTW	WALL TO WALL
WWF	WELDED WIRE FABRIC

MATERIALS & SYMBOLS LEGEND

- CONCEALED FASTENER METAL PANEL ON MTL. STUDS WITH CONTINUOUS INSULATION
- BRICK VENEER ON MTL. STUDS WITH CONTINUOUS INSULATION
- ACM PANEL TRIM ON MTL. STUDS
- GYPSUM BOARD ON METAL STUD PARTITION W/ FIRE RESISTANCE RATING
- GYPSUM BOARD ON METAL STUD PARTITION W/ ACOUSTIC RATING
- GYPSUM BOARD ON METAL STUDS
- CONCRETE MASONRY UNIT
- CAST IN PLACE CONCRETE
- EXTERIOR CURTAINWALL / STOREFRONT
- INTERIOR CURTAINWALL / STOREFRONT

REFER TO SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION

- METAL / STEEL / ALUMINUM
- CONCRETE
- CONCRETE MASONRY UNIT
- RIGID INSULATION
- MASONRY (BRICK)
- EARTH
- M8-A — WALL TYPE KEY
- XX — EXTERIOR CURTAINWALL / STOREFRONT TYPE KEY
- XX — INTERIOR CURTAINWALL / STOREFRONT TYPE KEY
- 201A — DOOR TYPE KEY
- DETAIL REFERENCE NUMBER; A201; PLAN / SECTION / DETAIL CALLOUT; DETAIL REFERENCE SHEET
- 1 — REVISION CLOUD & REVISION NUMBER

- Ref / A101 — EXTERIOR BUILDING ELEVATION
- 1 Ref / A101 — INTERIOR ELEVATION
- 1 Ref / A101 — CASEWORK ELEVATION
- 1 Ref / 1 A101 1 — TOILET / ELEVATION
- DETAIL REFERENCE NUMBER; SIM; A101; BUILDING SECTION; DETAIL REFERENCE SHEET
- DETAIL REFERENCE NUMBER; 1 SIM; A101; WALL SECTION; DETAIL REFERENCE SHEET
- CENTERLINE
- ELEVATION MARKER
- NORTH ARROW
- BATT INSULATION

WDD ARCHITECTS

REGISTERED ARCHITECT — BRIAN W. TITTENBERGER — DELOSS — 6/9/26 — STATE OF ARKANSAS

PROJECT TITLE

ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST.
LITTLE ROC, AR 72207

CONTENTS

ARCHITECTURAL NOTES AND LEGEND

REVISIONS

NO.	DATE	DESCRIPTION

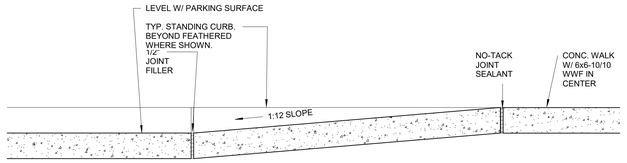
25-043
JOB. NO.

6/9/26
DATE
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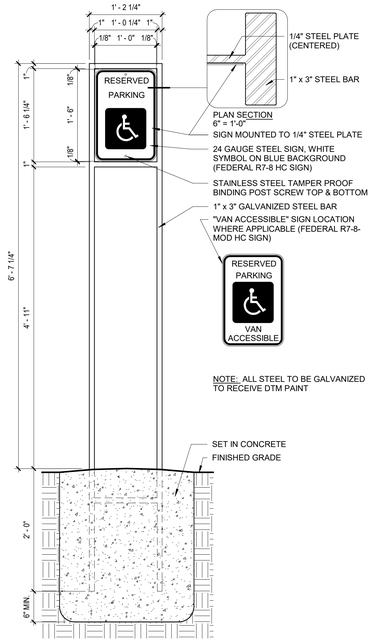
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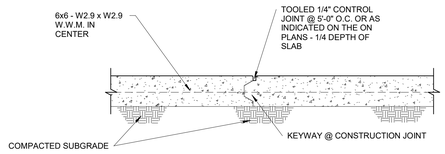
6 SITE DETAIL - HANDICAP RAMPS AND PARKING SPACES
1" = 1'-0"



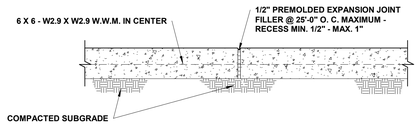
5 SITE DETAIL - HANDICAP PARKING SIGN
1" = 1'-0"



4 SITE DETAIL - HANDICAP PARKING SIGN
1" = 1'-0"

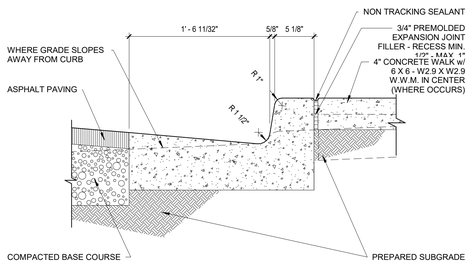


TYPICAL CONTROL JOINT (C.J.)



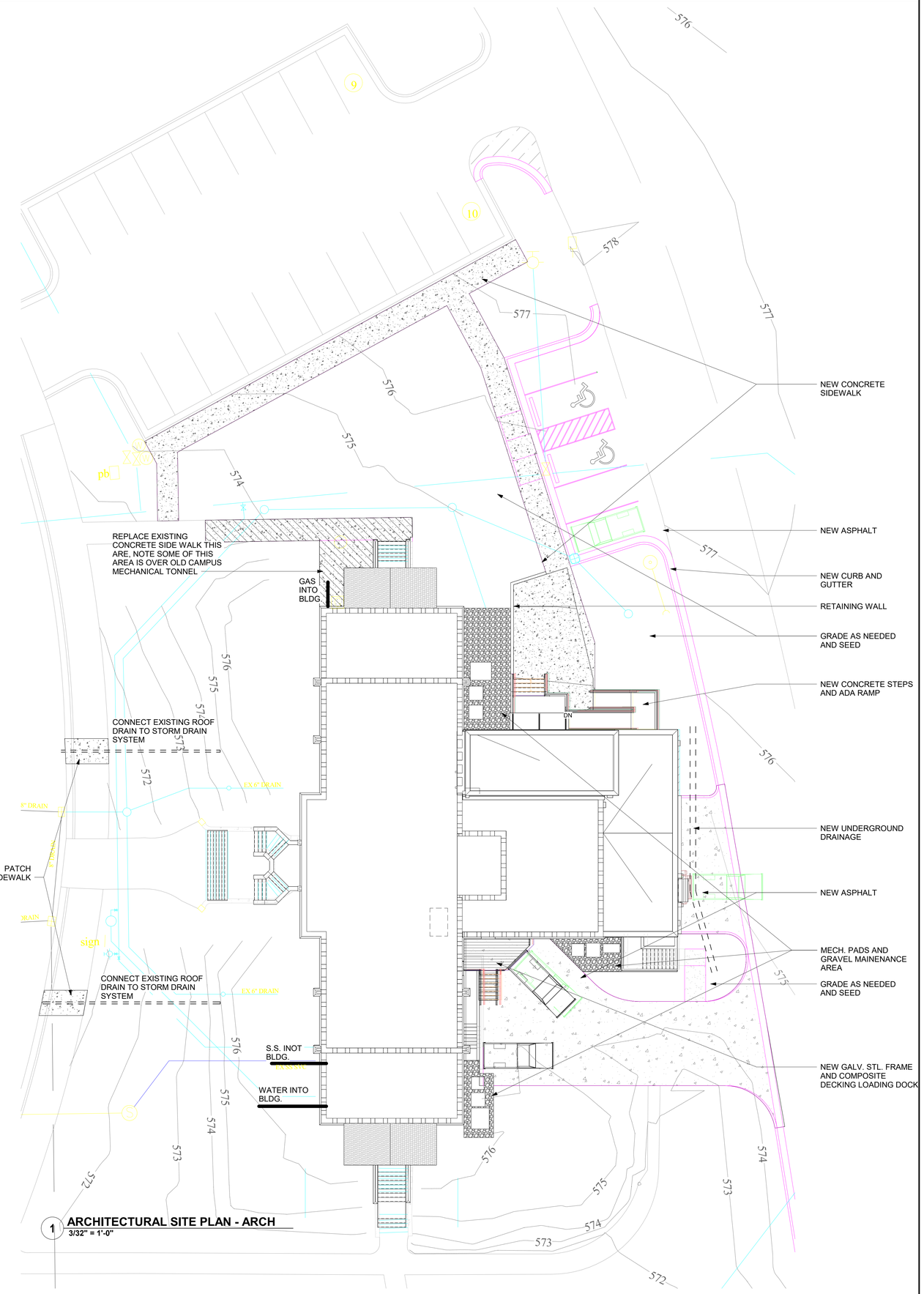
TYPICAL SIDEWALK EXPANSION JOINT (E.J.)

NOTE: ALL SIDEWALKS TO BE 4" THICK, RECEIVE MEDIUM BROOM FINISH, & SLOPE LATERALLY 1/4" / FT. FOR DRAINAGE.



3 SITE DETAIL - CURB & GUTTER @ ASPHALT PAVING
1 1/2" = 1'-0"

2 SITE DETAIL - CONCRETE JOINT DETAILS @ SIDEWALKS
1" = 1'-0"



1 ARCHITECTURAL SITE PLAN - ARCH
3/32" = 1'-0"

WDD ARCHITECTS

REGISTERED ARCHITECT BRIAN W. TITTENBERGER DELOSS 6/9/26 ARKANSAS U.S.A.

PROJECT TITLE

ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST.
LITTLE ROC, AR 72207

CONTENTS

ARCHITECTURAL SITE PLAN

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PARTITION TAG LEGEND

PARTITION CORE:

S	STUD (METAL)
M	MANSORY
W	STUD (WOOD
H	SHAFT WALL

CORE WIDTH:

KEY#	STUD:	MASONRY:
2	2 1/2"	
4	3 5/8"	3 5/8"
6	6 "	5 5/8"
8	8 "	7 5/8"
10	10 "	9 5/8"
12	12 "	11 5/8"

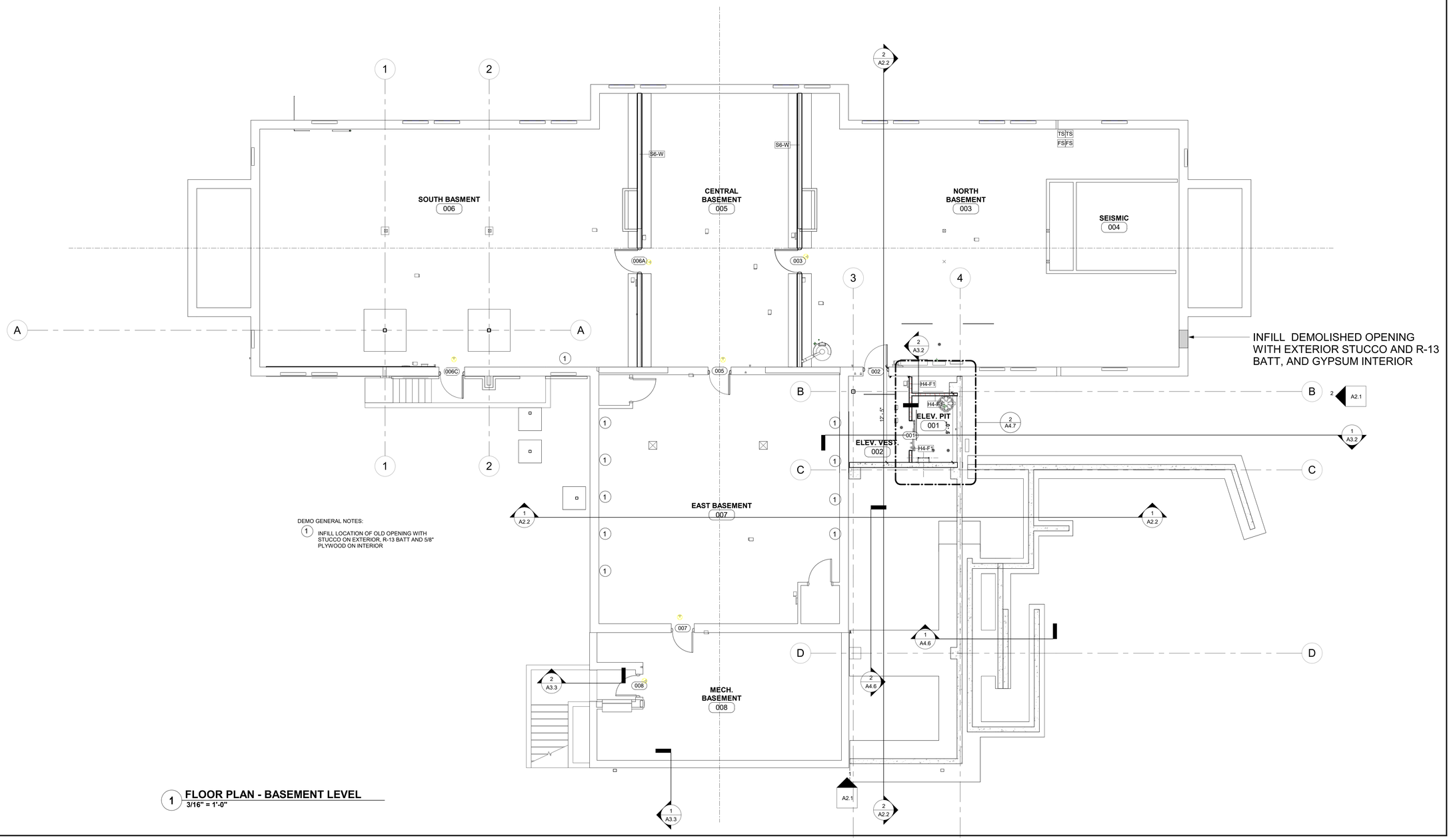
F1 A C L W

S4-F1

NOTE: AT ALL WALL TILE LOCATIONS OVER METAL STUDS, PROVIDE TILE CEMENT BACKER BOARD - REFER TO ELEVATIONS AND FINISH SCHEDULE

ADDITIONAL PROPERTIES (SEE DETAILS):

FIRE RESISTANCE RATING (# HOURS)
ACOUSTIC RATED ASSEMBLY
CONCEALED CONSTRUCTION, FINSH ONLY ONE SIDE OF PARTITION
LOW WALL NOT BRACED TO STRUCTURE ABOVE - REFER TO SECTIONS OR ELEVATIONS FOR HEIGHT
WOOD SHEATHING ONE SIDE SHEAR WALL



1 **FLOOR PLAN - BASEMENT LEVEL**
3/16" = 1'-0"

REGISTERED ARCHITECT
WILLIAM E. WITTENBERG
DELOACH
6/9/26
ARKANSAS

WDD ARCHITECTS

PROJECT TITLE

ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST
LITTLE ROC, AR 72207

CONTENTS

FLOOR PLAN - BASEMENT LEVEL

REVISIONS

NO.	DATE	DESCRIPTION

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PARTITION TAG LEGEND

PARTITION CORE:

S	STUD (METAL)
M	MANSORY
W	STUD (WOOD
H	SHAFT WALL

CORE WIDTH:

KEY#:	STUD:	MASONRY:
2	2 1/2"	
4	3 5/8"	3 5/8"
6	6 "	5 5/8"
8	8 "	7 5/8"
10	10 "	9 5/8"
12	12 "	11 5/8"

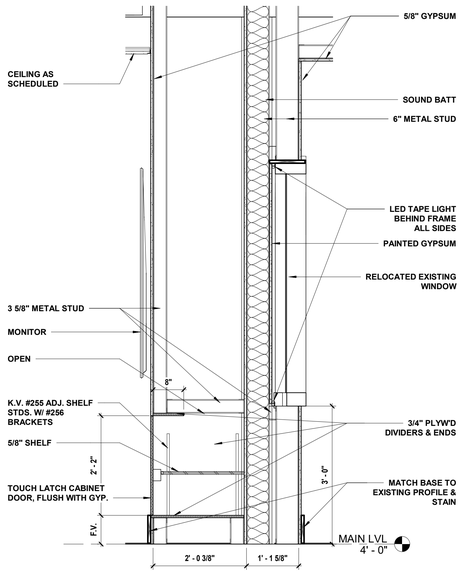
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S4-F1

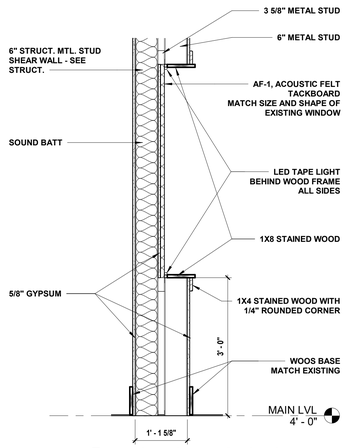
NOTE: AT ALL WALL TILE LOCATIONS OVER METAL STUDS, PROVIDE TILE CEMENT BACKER BOARD - REFER TO ELEVATIONS AND FINISH SCHEDULE

ADDITIONAL PROPERTIES (SEE DETAILS):

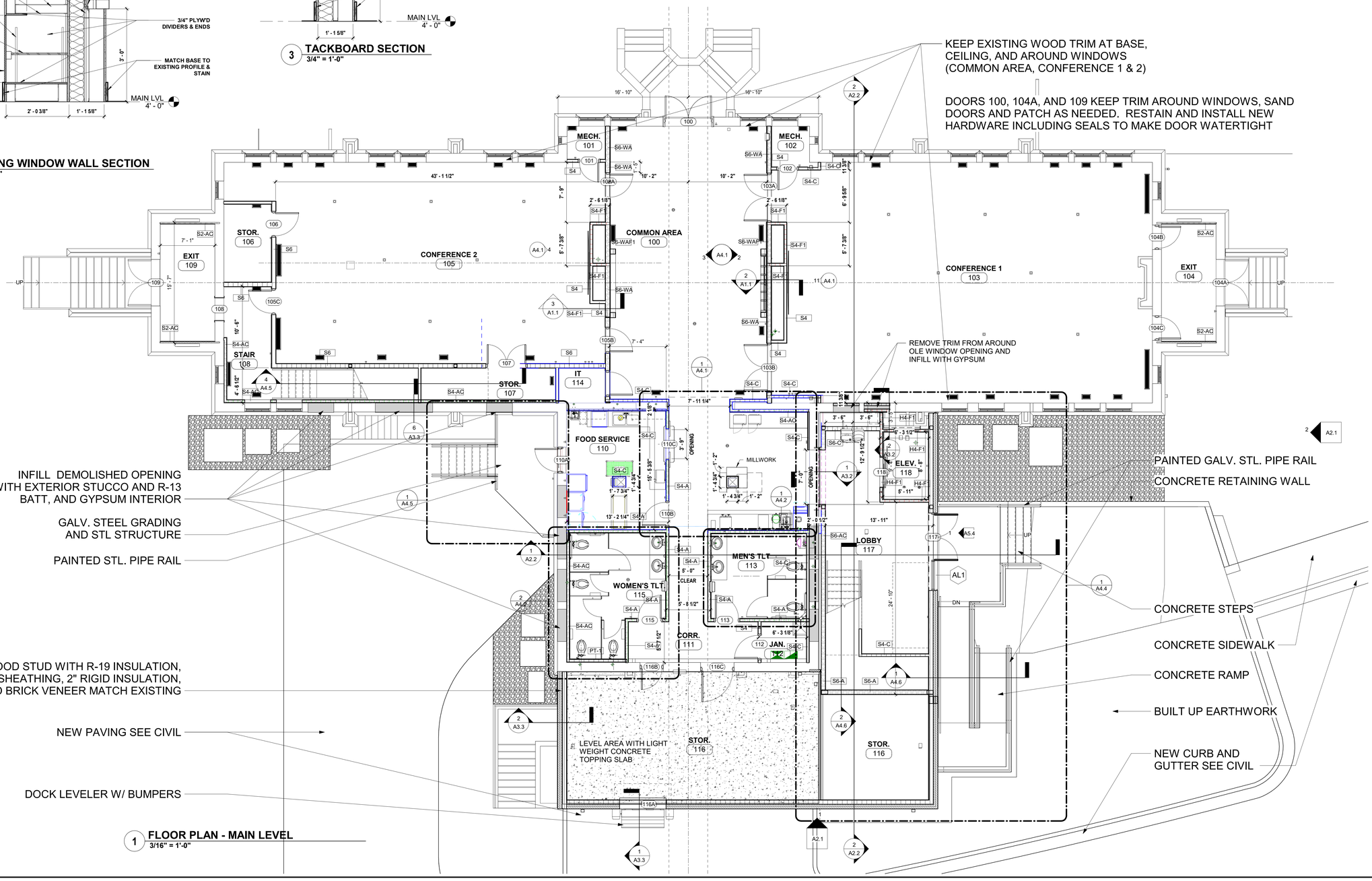
FIRE RESISTANCE RATING (# HOURS)
ACOUSTIC RATED ASSEMBLY
CONCEALED CONSTRUCTION, FINSH ONLY ONE SIDE OF PARTITION
LOW WALL NOT BRACED TO STRUCTURE ABOVE - REFER TO SECTIONS OR ELEVATIONS FOR HEIGHT
WOOD SHEATHING ONE SIDE SHEAR WALL



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



3 TACKBOARD SECTION
3/4" = 1'-0"



1 FLOOR PLAN - MAIN LEVEL
3/16" = 1'-0"

WDD ARCHITECTS
REGISTERED ARCHITECT BRITTENBECK DELOACH 6/9/26 ARKANSAS

PROJECT TITLE

ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST.
LITTLE ROC, AR 72207

CONTENTS

FLOOR PLAN - MAIN LEVEL

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PARTITION TAG LEGEND

PARTITION CORE:

S	STUD (METAL)
M	MANSORY
W	STUD (WOOD
H	SHAFT WALL

CORE WIDTH:

KEY#:	STUD:	MASONRY:
2	2 1/2"	
4	3 5/8"	3 5/8"
6	6 "	5 5/8"
8	8 "	7 5/8"
10	10 "	9 5/8"
12	12 "	11 5/8"

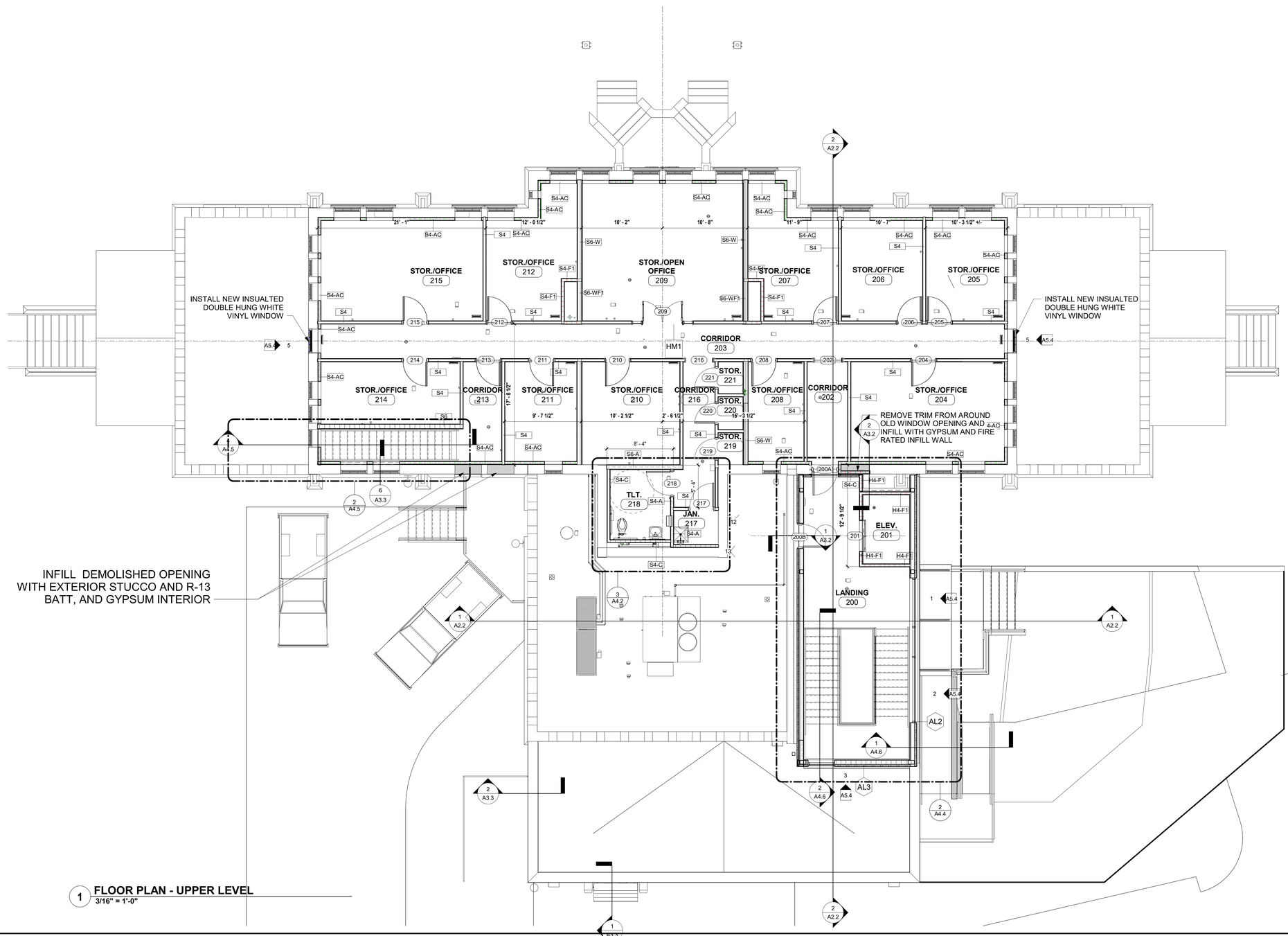
F1 A C L W

S4-F1

NOTE: AT ALL WALL TILE LOCATIONS OVER METAL STUDS, PROVIDE TILE CEMENT BACKER BOARD - REFER TO ELEVATIONS AND FINISH SCHEDULE

ADDITIONAL PROPERTIES (SEE DETAILS):

FIRE RESISTANCE RATING (# HOURS)
ACOUSTIC RATED ASSEMBLY
CONCEALED CONSTRUCTION, FINSH ONLY ONE SIDE OF PARTITION
LOW WALL NOT BRACED TO STRUCTURE ABOVE - REFER TO SECTIONS OR ELEVATIONS FOR HEIGHT
WOOD SHEATHING ONE SIDE SHEAR WALL



1 FLOOR PLAN - UPPER LEVEL
3/16" = 1'-0"

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WDD ARCHITECTS

REGISTERED ARCHITECT — BRITTENEY DELOACH — 6/19/26 — ARKANSAS

PROJECT TITLE

ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST.
LITTLE ROC, AR 72207

CONTENTS

FLOOR PLAN - UPPER LEVEL

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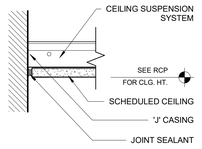
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REFLECTED CEILING LEGEND

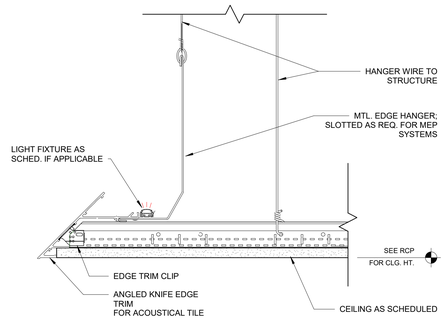
GYPSUM BOARD CEILING UNLESS OTHERWISE NOTED	METAL SOFFIT PANELS
2' X 2' LAY-IN ACOUSTICAL CEILING BOARD	WALL MOUNTED LIGHT FIXTURE
2' X 4' FLUORESCENT LIGHT FIXTURE	WALL MOUNTED LIGHT FIXTURE
LIGHT FIXTURE - SUSPENDED	EXIT SIGN
RECESSED CAN LIGHT	OCCUPANCY SENSOR
	HVAC REGISTERS

GENERAL NOTES: 1. VERIFY WITH MECHANICAL DRAWINGS, CEILING REGISTER SIZE, TYPE, AND DENSITY.

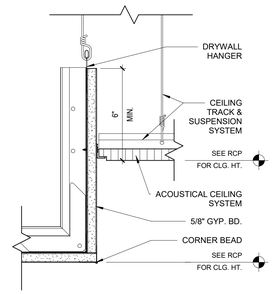
2. VERIFY WITH ELECTRICAL DRAWINGS, LIGHT FIXTURE SIZE, TYPE AND QUANTITY.



4 RCP DETAIL - SCHEDULED CEILING AT DISSIMILAR MATERIAL
3" = 1'-0"



3 RCP DETAIL - RCP SECTION DETAIL_ TYPICAL EDGE TRIM AT ACT
3" = 1'-0"



2 RCP DETAIL - GWB SOFFIT AT CHANGE OF HEIGHT - GWB TO ACT
3" = 1'-0"



1 MAIN LEVEL REFLECTED CEILING PLAN
3/16" = 1'-0"

WDD ARCHITECTS

REGISTERED ARCHITECT BRIAN K. TYLER 6/9/26 ARKANSAS U.S.A.

PROJECT TITLE

ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST.
LITTLE ROC, AR 72207

CONTENTS

MAIN LEVEL REFLECTED CEILING PLAN

REVISIONS

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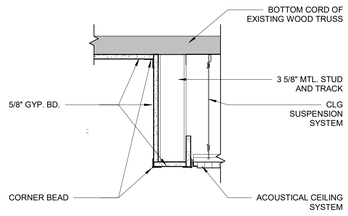
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REFLECTED CEILING LEGEND

GYPSUM BOARD CEILING UNLESS OTHERWISE NOTED	METAL SOFFIT PANELS
2' X 2' LAY-IN ACOUSTICAL CEILING BOARD	WALL MOUNTED LIGHT FIXTURE
2' X 4' FLUORESCENT LIGHT FIXTURE	WALL MOUNTED LIGHT FIXTURE
LIGHT FIXTURE - SUSPENDED	EXIT SIGN
RECESSED CAN LIGHT	OCCUPANCY SENSOR
	HVAC REGISTERS

GENERAL NOTES:
1. VERIFY WITH MECHANICAL DRAWINGS, CEILING REGISTER SIZE, TYPE, AND DENSITY.
2. VERIFY WITH ELECTRICAL DRAWINGS, LIGHT FIXTURE SIZE, TYPE AND QUANTITY.



2 CEILING TRANSITION
1 1/2" = 1'-0"



1 UPPER LEVEL REFLECTED CEILING PLAN
3/16" = 1'-0"

WDD ARCHITECTS

REGISTERED ARCHITECT — BRITTENEY D. LOVE — 6/9/26 — ARKANSAS

PROJECT TITLE

ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST
LITTLE ROC, AR 72207

CONTENTS

UPPER LEVEL REFLECTED CEILING PLAN

REVISIONS

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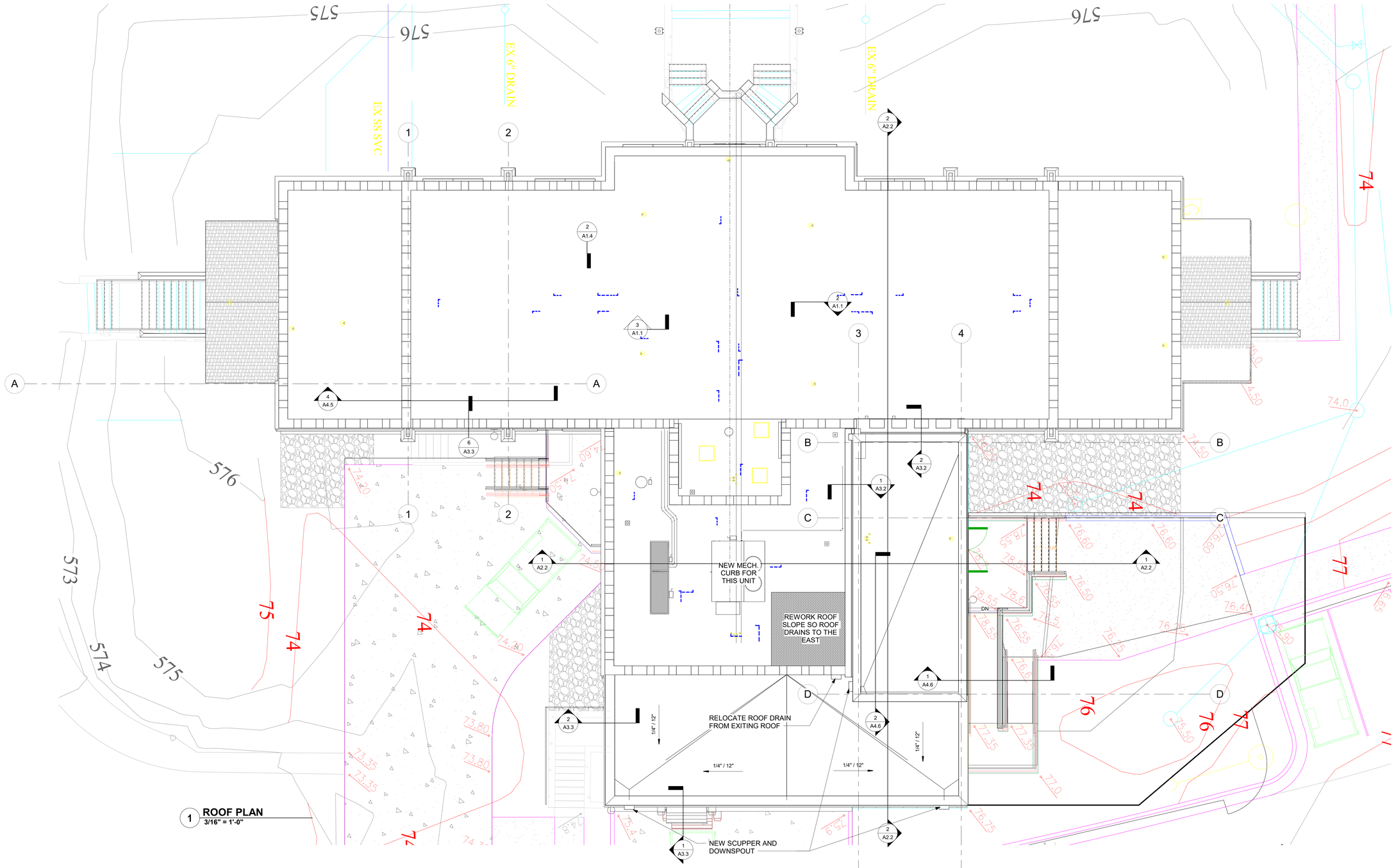
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1 **ROOF PLAN**
3/16" = 1'-0"

WDD ARCHITECTS

REGISTERED ARCHITECT
BRITTENUM
DELOACH
ARKANSAS
6/9/26

PROJECT TITLE

ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST.
LITTLE ROC, AR 72207

CONTENTS

ROOF PLAN

REVISIONS

NO.	DATE	DESCRIPTION

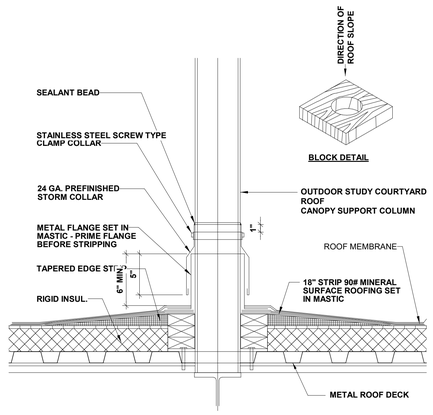
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6/9/26
DATE
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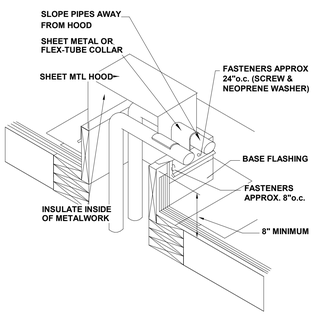
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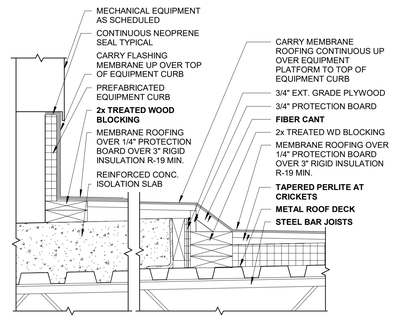
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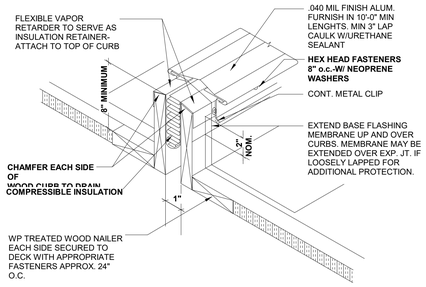
9 ROOF - SCREEN WALL SUPPORT DETAIL
1 1/2" = 1'-0"



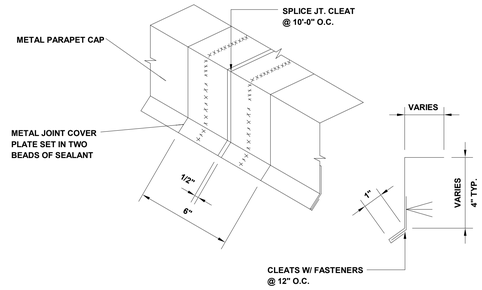
8 ROOF - CONDUIT & PIPING THRU ROOF
N.T.S.



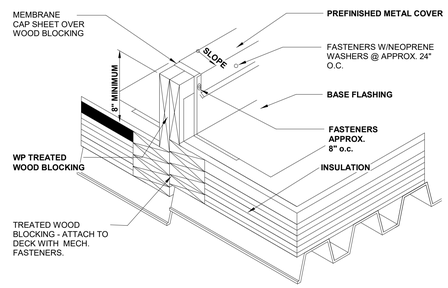
7 ROOF - EQUIPMENT ISOLATION PLATFORM
1 1/2" = 1'-0"



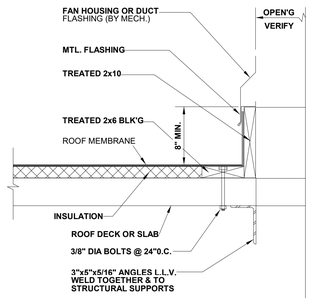
6 ROOF - TYPICAL ROOF EXPANSION JOINT
N.T.S.



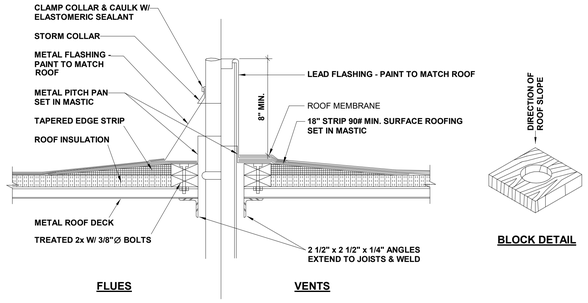
5 ROOF - TYPICAL CAP / COUNTER FLASHING
N.T.S.



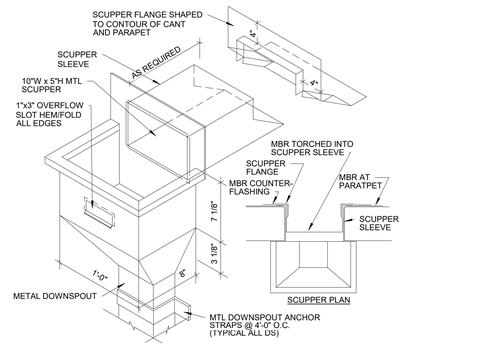
4 ROOF - AREA DIVIDER
N.T.S.



3 ROOF - EQUIPMENT CURB
1 1/2" = 1'-0"



2 ROOF - VENT THRU ROOF / FLUE STACKS
1 1/2" = 1'-0"



1 ROOF - SCUPPER
1 1/2" = 1'-0"

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WDD ARCHITECTS

REGISTERED ARCHITECT
WILLIAM E. DELONG
ARKANSAS
6/9/26

PROJECT TITLE
ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST.
LITTLE ROC, AR 72207

CONTENTS
ROOF DETAILS

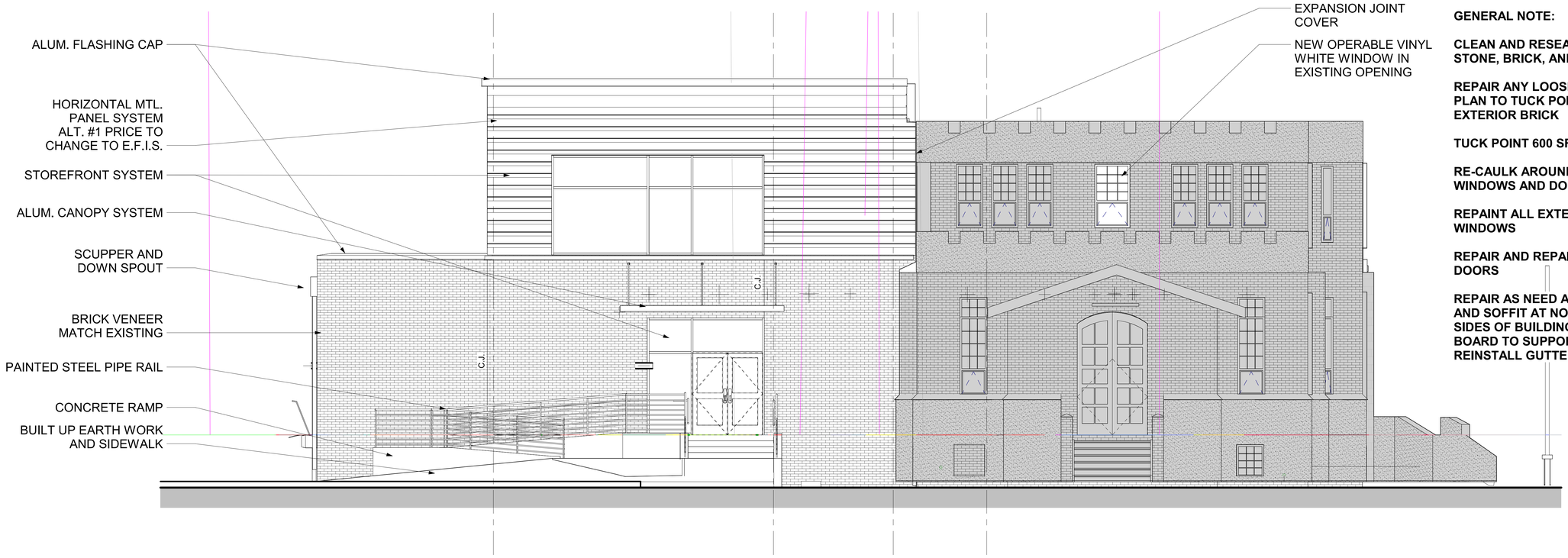
REVISIONS

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2 **NORTH ELEVATION**
1/4" = 1'-0"

GENERAL NOTE:

CLEAN AND RESEAL ALL EXTERIOR STONE, BRICK, AND PRECAST

REPAIR ANY LOOSE BRICK 100 SF AND PLAN TO TUCK POINT 500 SF AREA OF EXTERIOR BRICK

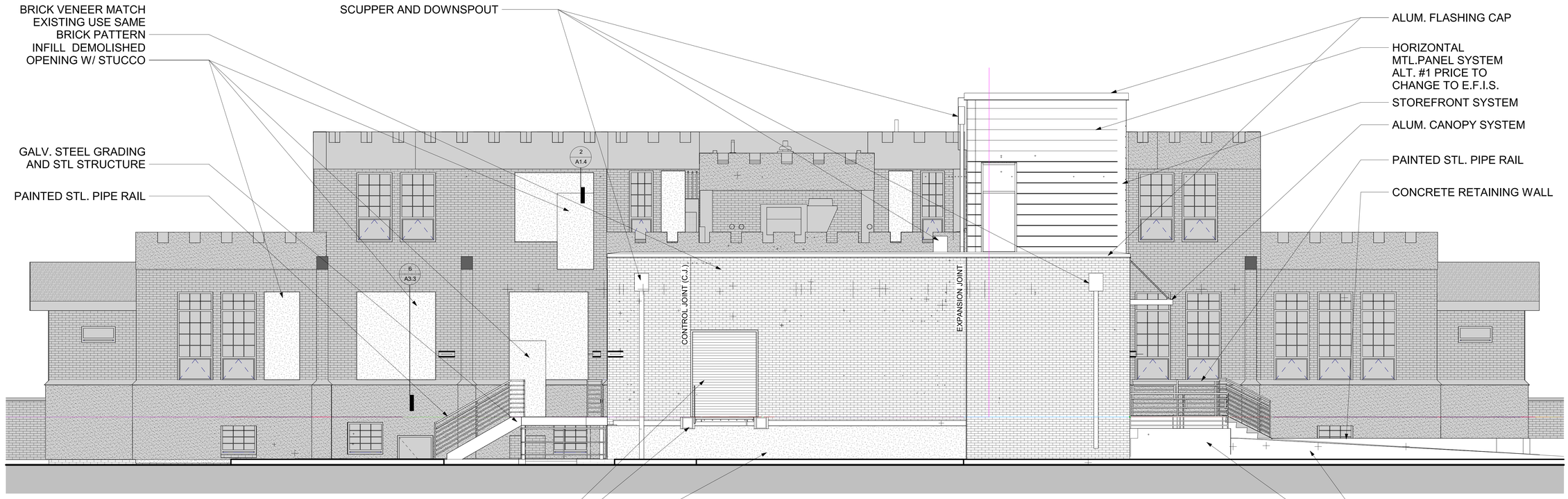
TUCK POINT 600 SF OF INTER BRICK

RE-CAULK AROUND ALL EXTERIOR WINDOWS AND DOORS

REPAINT ALL EXTERIOR EXISTING WINDOWS

REPAIR AND REPAINT ALL EXTERIOR DOORS

REPAIR AS NEED AND REPAINT FASCIA AND SOFFIT AT NORTH AND SOUTH SIDES OF BUILDING. ADD FASCIA BOARD TO SUPPORT THE GUTTER, REINSTALL GUTTER



1 **EAST ELEVATION**
1/4" = 1'-0"

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WDD ARCHITECTS

REGISTERED ARCHITECT
BRITTENEY DELOACH
ARKANSAS
6/9/26

PROJECT TITLE

ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST
LITTLE ROC, AR 72207

CONTENTS

EXTERIOR ELEVATIONS

REVISIONS

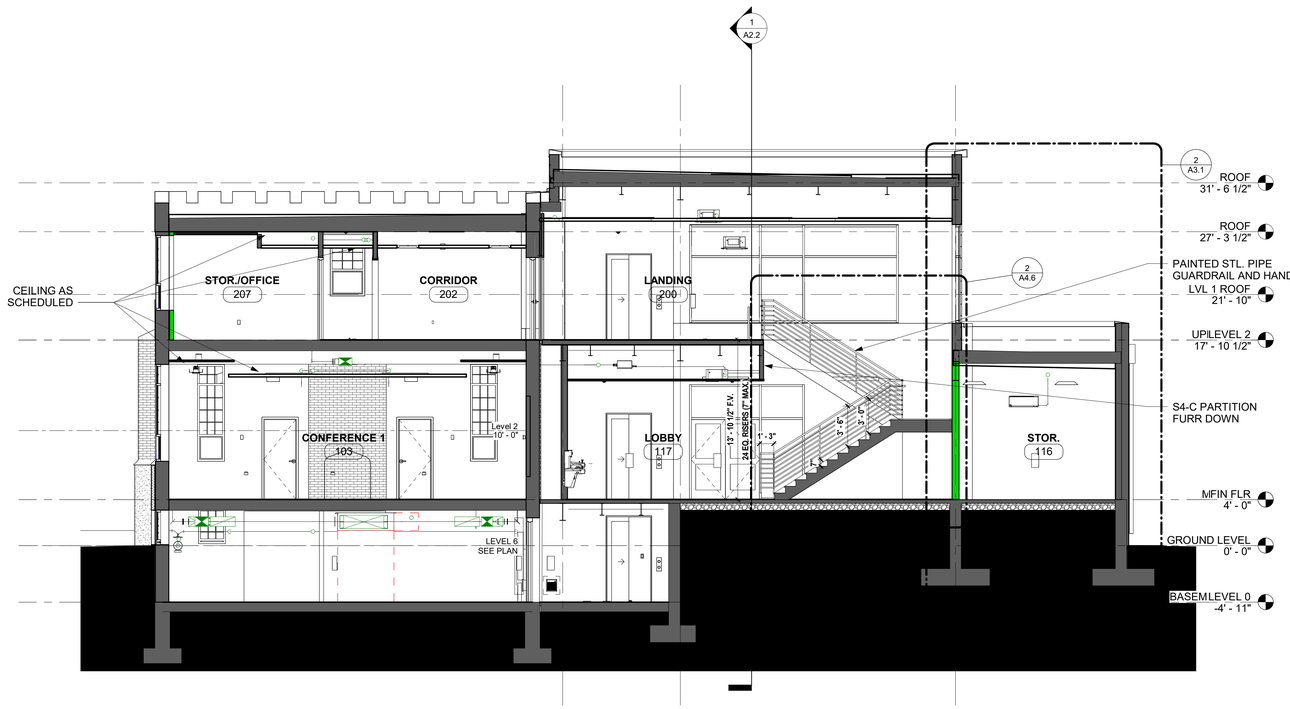
NO.	DATE	DESCRIPTION

25-043
JOB. NO.

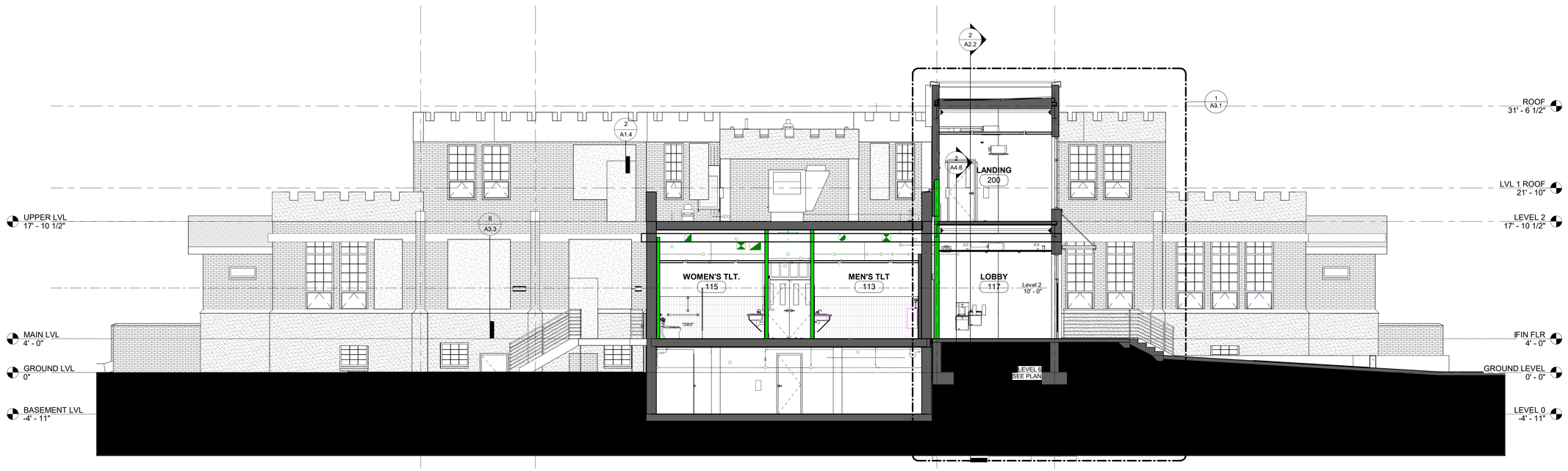
6/9/26
DATE
100% CONSTRUCITION DOCUMENTS

SHEET

A2.1



2 EAST/WEST SECTION
3/16" = 1'-0"



1 NORTH/SOUTH SECTION
3/16" = 1'-0"

6/9/2026 2:27:14 PM
Autodesk Docs://25-043 St John's Byrne Hall Renovation/25-043 Byrne Hall Revit_R25_3D.rvt

WDD ARCHITECTS

REGISTERED ARCHITECT
M. TITTENBERGER
DELOACH
6/9/26
ARKANSAS
U.S.A.

PROJECT TITLE

ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST
LITTLE ROC, AR 72207

CONTENTS

BUILDING SECTIONS

REVISIONS

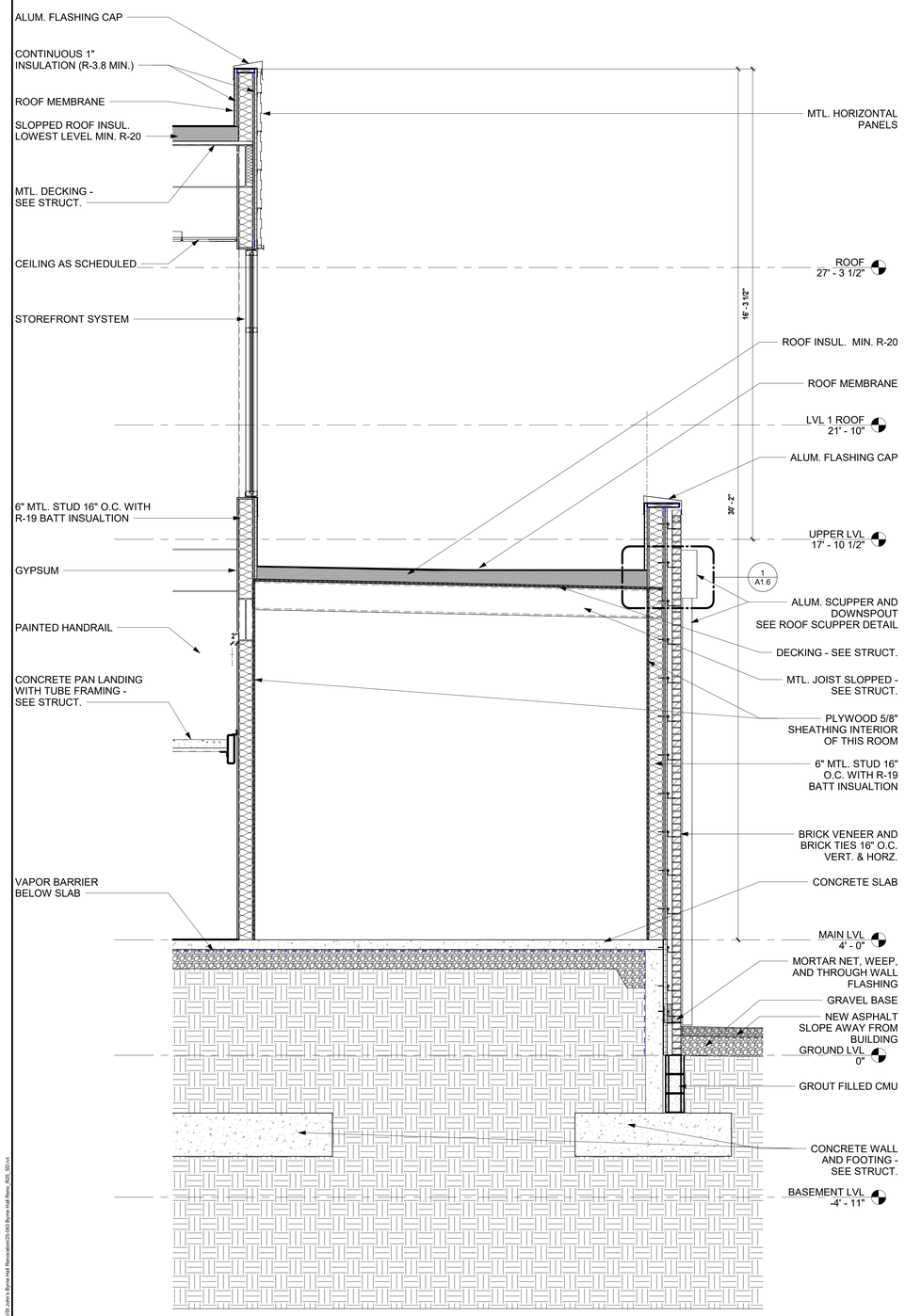
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25-043
JOB. NO.

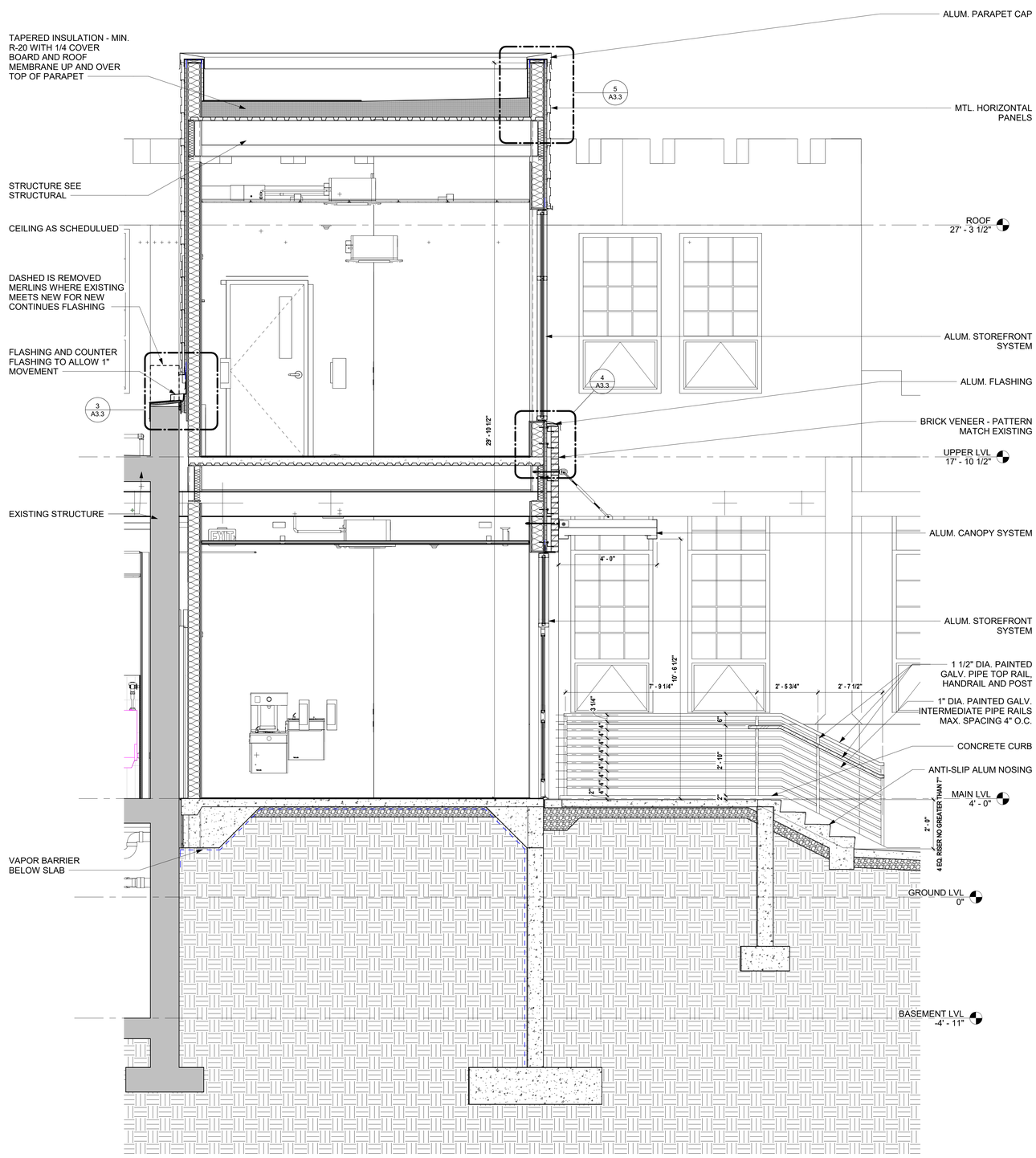
6/9/26
DATE
100% CONSTRUCITION DOCUMENTS

SHEET

A2.2



2 EAST/WEST WALL SECTION
1/2" = 1'-0"



1 NEW ENTRY WALL SECTION
1/2" = 1'-0"

6/9/2026 2:07:46 PM
Autodesk Docs://St John's Byrne Hall Renovation/25-043 Byrne Hall Reno_R25_3D.rvt

WDD ARCHITECTS

REGISTERED ARCHITECT
W. TITTENBERGER
DELOS
ARKANSAS
6/9/26

PROJECT TITLE
ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST.
LITTLE ROC, AR 72207

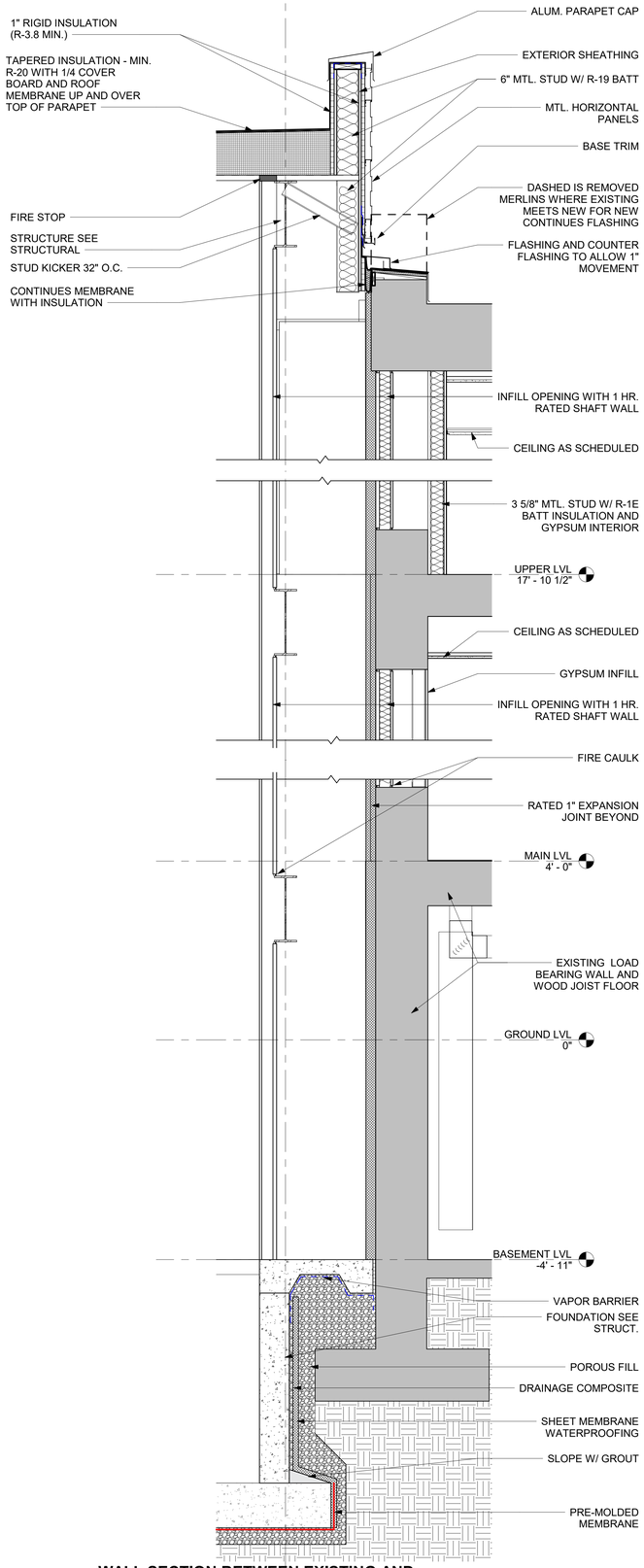
CONTENTS
EXTERIOR WALL SECTIONS

REVISIONS

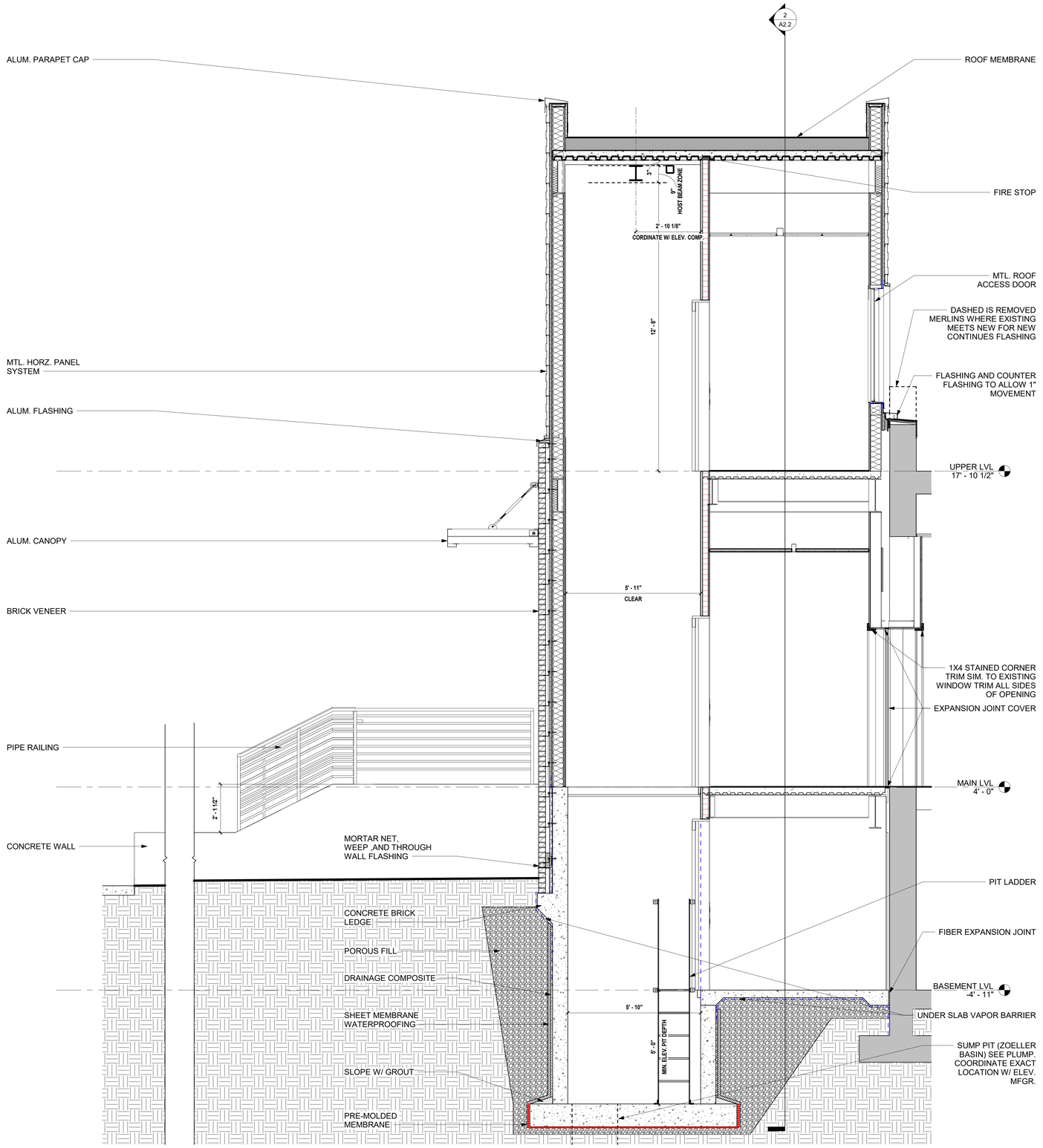
NO.	DATE	DESCRIPTION

25-043
JOB. NO.
6/9/26
DATE
100% CONSTRUCITION DOCUMENTS

SHEET
A3.1



2 WALL SECTION BETWEEN EXISTING AND NEW
3/4" = 1'-0"



1 WALL SECTION AT ELEVATOR
1/2" = 1'-0"

6/9/2026 2:01:41 PM
Autodesk Docs://St John's Byrne Hall Renovation/25-043 Byrne Hall Reno_R25_20.rvt

WDD ARCHITECTS

REGISTERED ARCHITECT BRITTENBECK DELOACH 6/9/26 ARKANSAS U.S.A.

PROJECT TITLE

ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST.
LITTLE ROC, AR 72207

CONTENTS

EXTERIOR WALL SECTIONS

REVISIONS

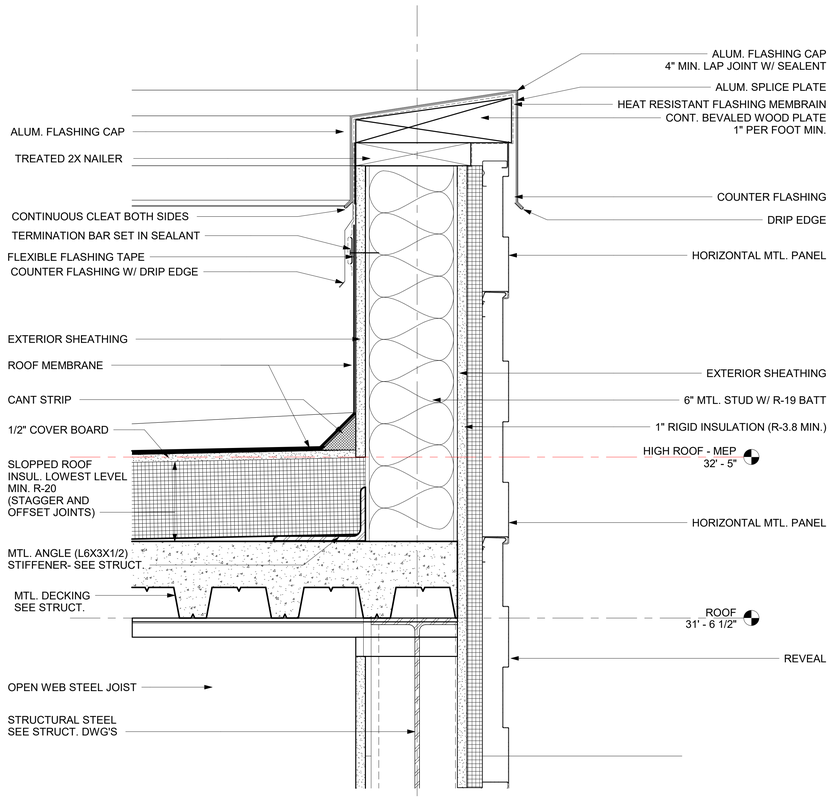
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25-043
JOB. NO.

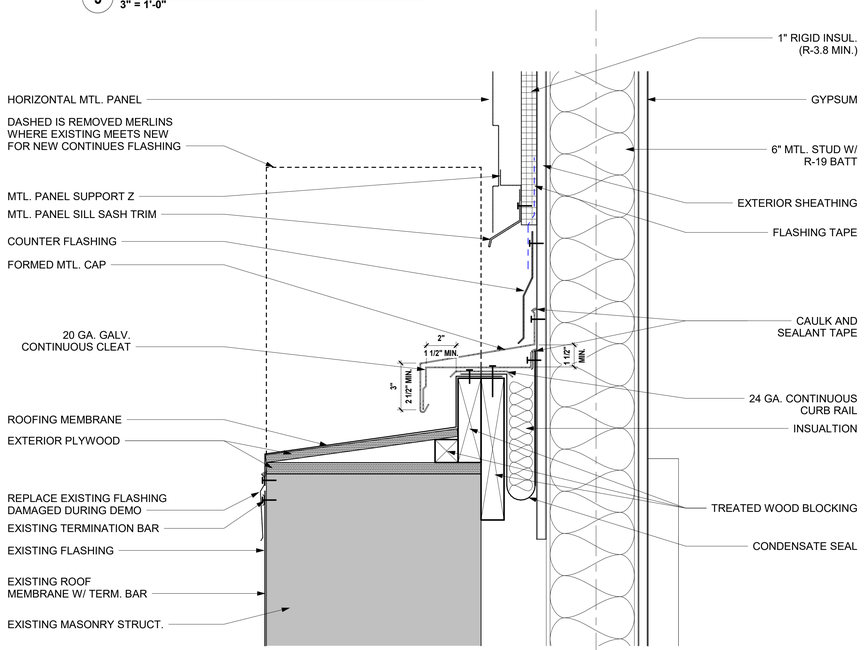
6/9/26
DATE
100% CONSTRUCITION DOCUMENTS

SHEET

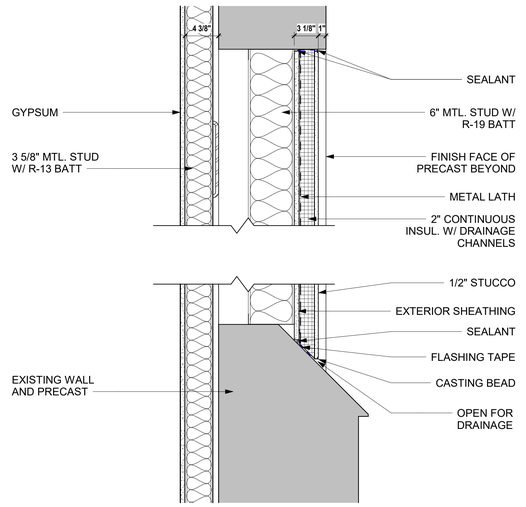
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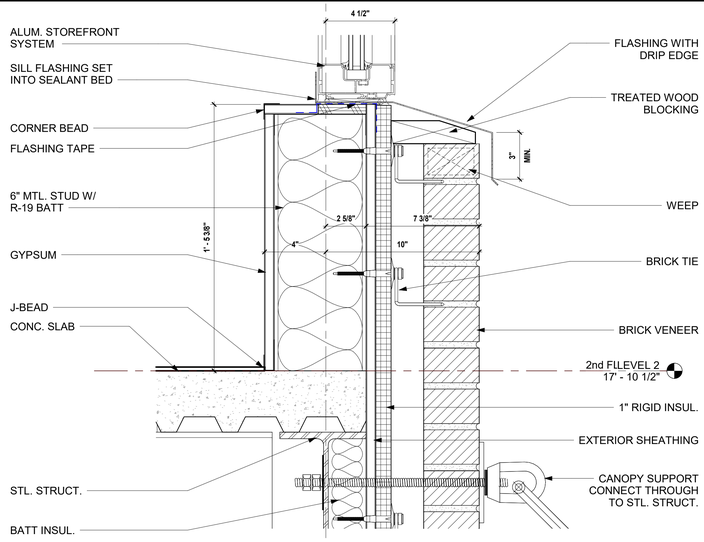
5 DTL. PARAPET
3" = 1'-0"



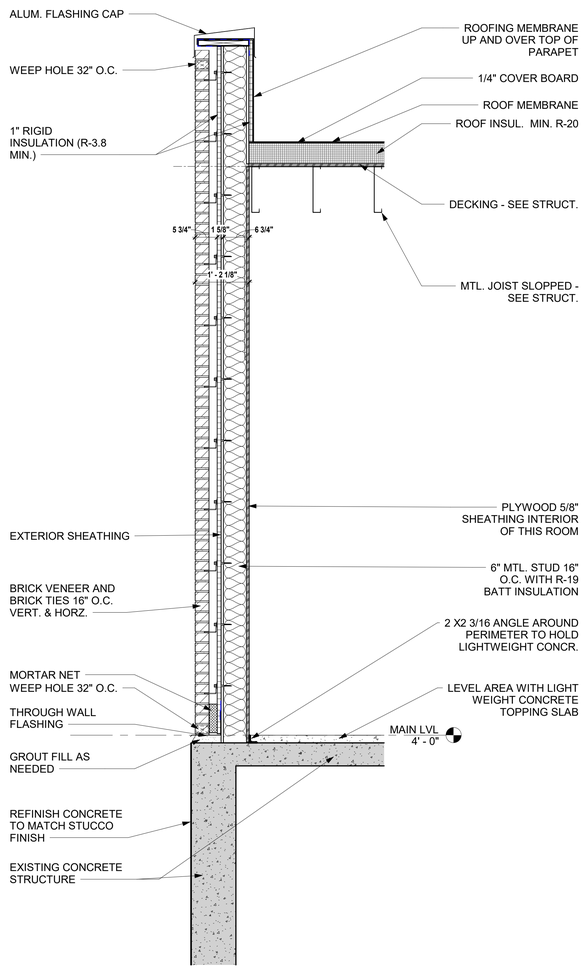
3 DTL. EXIST. TO NEW
3" = 1'-0"



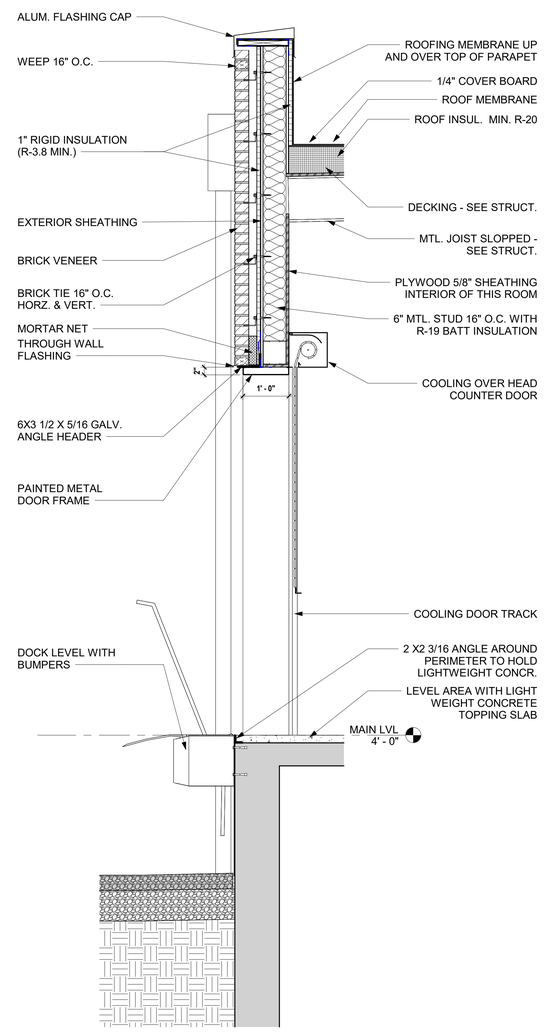
6 TYP. INFILL SECTION
1 1/2" = 1'-0"



4 DTL. WINDOW SILL
3" = 1'-0"



2 STORAGE WALL SECTION
3/4" = 1'-0"



1 DOCK SECTION
3/4" = 1'-0"

WDD ARCHITECTS
REGISTERED ARCHITECT
W. TYLER TENBERG
DELOACH
ARKANSAS
6/9/26

PROJECT TITLE
ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST
LITTLE ROC, AR 72207

CONTENTS
EXTERIOR WALL SECTIONS

REVISIONS

NO.	DATE	DESCRIPTION

25-043
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SHEET
A3.3

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PARTITION TAG LEGEND

PARTITION CORE:

S	STUD (METAL)
M	MANSORY
W	STUD (WOOD
H	SHAFT WALL

CORE WIDTH:

KEY#:	STUD:	MASONRY:
2	2 1/2"	
4	3 5/8"	3 5/8"
6	6 "	5 5/8"
8	8 "	7 5/8"
10	10 "	9 5/8"
12	12 "	11 5/8"

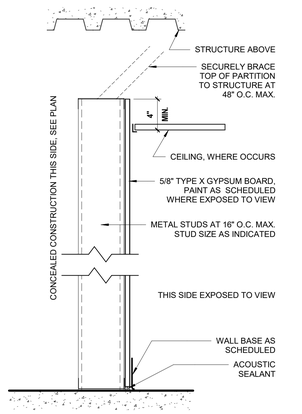
F1
A
C
L
W

S4-F1

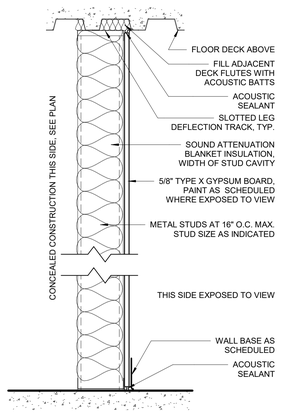
NOTE: AT ALL WALL TILE LOCATIONS OVER METAL STUDS, PROVIDE TILE CEMENT BACKER BOARD - REFER TO ELEVATIONS AND FINISH SCHEDULE

ADDITIONAL PROPERTIES (SEE DETAILS):

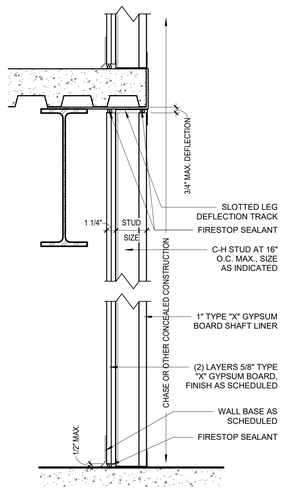
FIRE RESISTANCE RATING (# HOURS)
ACOUSTIC RATED ASSEMBLY
CONCEALED CONSTRUCTION, FINISH ONLY ONE SIDE OF PARTITION
LOW WALL NOT BRACED TO STRUCTURE ABOVE - REFER TO SECTIONS OR ELEVATIONS FOR HEIGHT
WOOD SHEATHING ONE SIDE SHEAR WALL



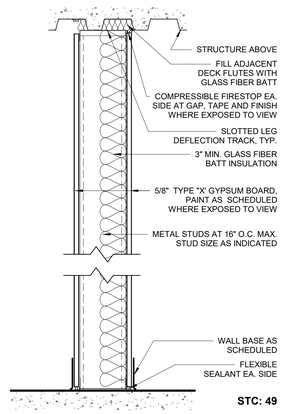
6 PARTITION DETAIL S#-C
1 1/2" = 1'-0" — FURRED OUT PARTITION



5 PARTITION DETAIL S#-AC
1 1/2" = 1'-0" — FURRED OUT ACOUSTIC PARTITION

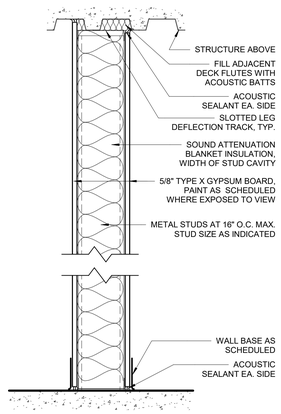


4 PARTITION DETAIL H#-F1
1 1/2" = 1'-0" — 2 HR SHAFT WALL: UL DESIGN U497

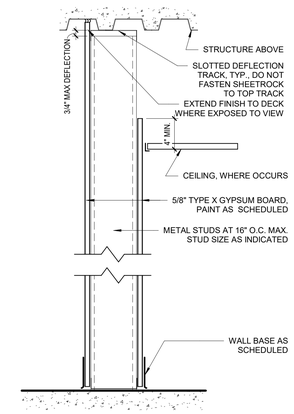


STC: 49

3 PARTITION DETAIL S#-F1 - ONE HOUR
1 1/2" = 1'-0" — 1 HOUR PARTITION: UL DESIGN U419



2 PARTITION DETAIL S#-A
1 1/2" = 1'-0" — ACOUSTIC PARTITION: STC 51



1 PARTITION DETAIL S#
1 1/2" = 1'-0" — METAL STUD PARTITION

WDD ARCHITECTS

REGISTERED ARCHITECT — BRITTENEY DELOACH — ARKANSAS — 6/9/26

PROJECT TITLE

ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST
LITTLE ROC, AR 72207

CONTENTS

INTERIOR PARTITION TYPES

REVISIONS

NO.	DATE	DESCRIPTION

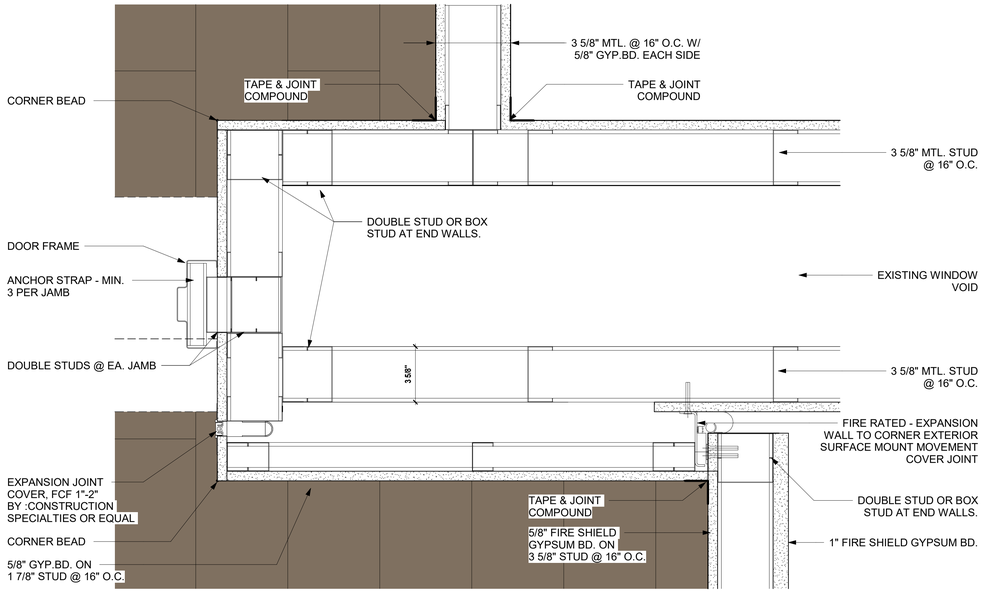
25-043
JOB. NO.

6/9/26
DATE
100% CONSTRUCTION DOCUMENTS

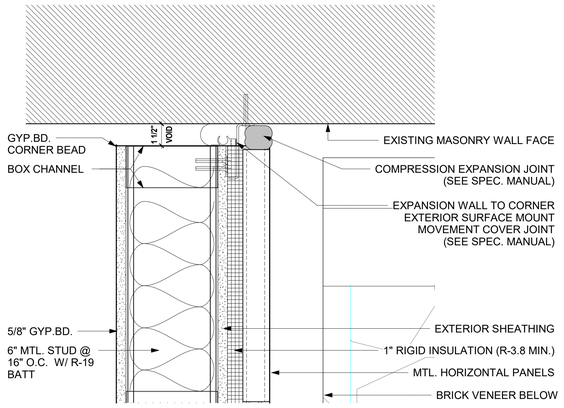
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A3.4

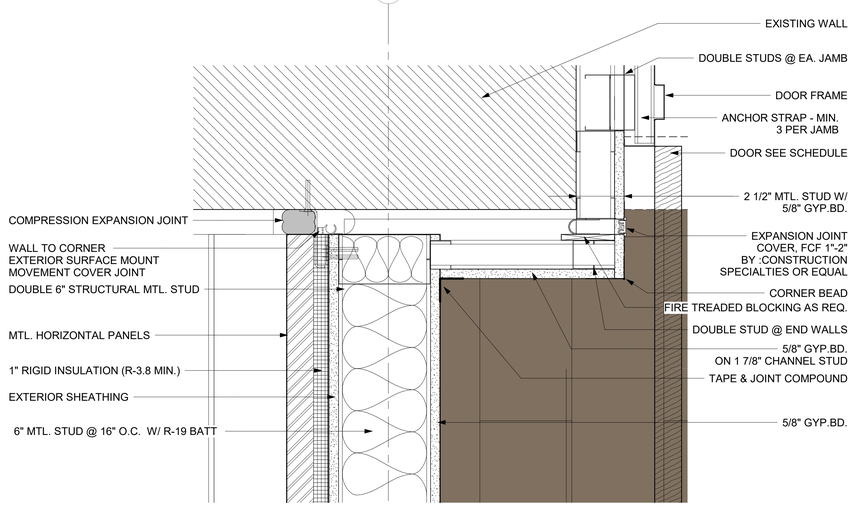
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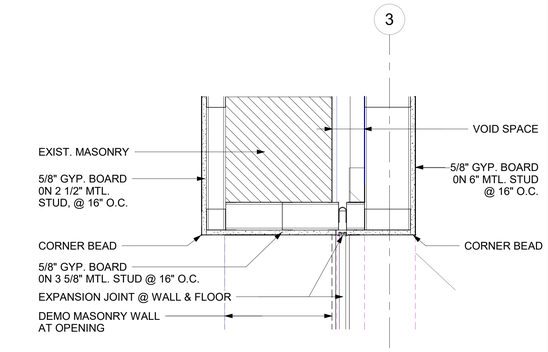
6 Detail 1
3" = 1'-0"



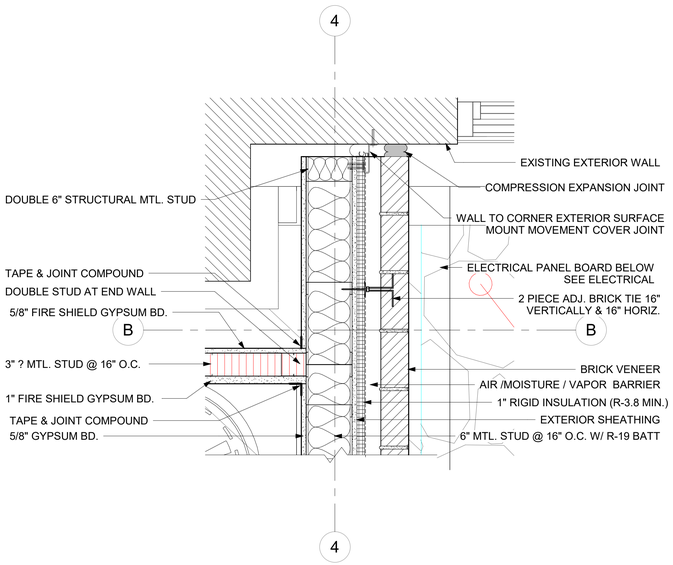
5 EXPANSION JOINT @ EXTERIOR MASONRY
3" = 1'-0"



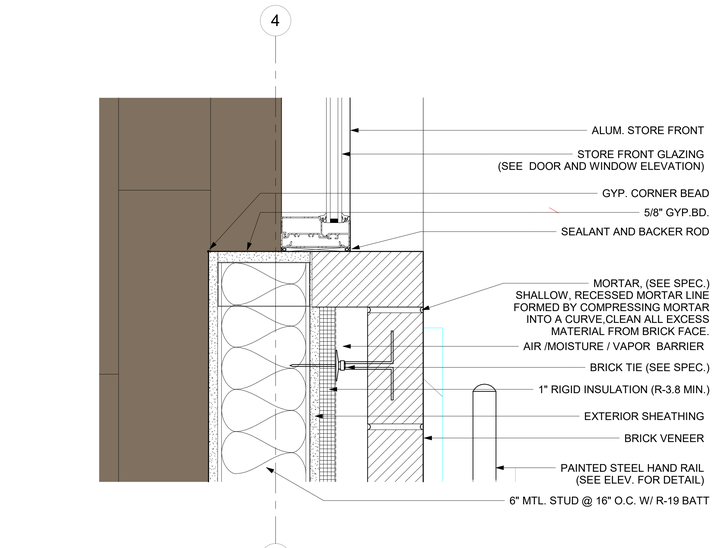
7 EXPANSION JOINT @ EXTERIOR MTL. PANEL AND INTERIOR DOOR JAMB
3" = 1'-0"



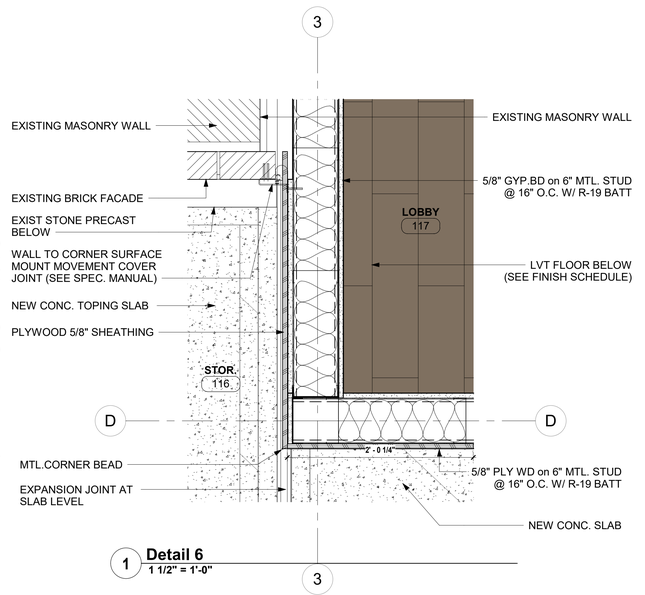
4 EXPANSION JOINT AT INTERIOR WALL
1 1/2" = 1'-0"



3 EXPANSION JOINT AT EXTERIOR MASONRY AND BRICK CONECTION
1 1/2" = 1'-0"



2 JAMB DETAIL @ MASONRY & STOREFRONT
3" = 1'-0"



1 Detail 6
1 1/2" = 1'-0"

Autodesk Docs://St John's Byrne Hall Renovation/25-043 Byrne Hall Reno_R25_SD.rvt
6/1/2026 2:07:21 PM

WDD ARCHITECTS

REGISTERED ARCHITECT
M. TATTENBERG
DELOACH
ARKANSAS
6/9/26

PROJECT TITLE
ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST.
LITTLE ROC, AR 72207

CONTENTS
PLAN DETAILS

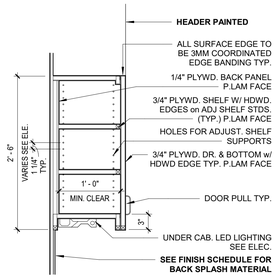
REVISIONS

NO.	DATE	DESCRIPTION

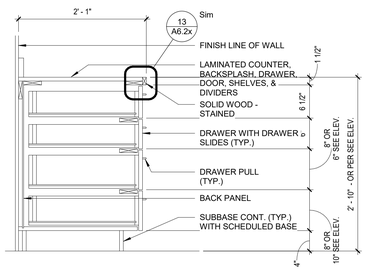
25-043
JOB. NO.

6/9/26
DATE
100% CONSTRUCITION DOCUMENTS

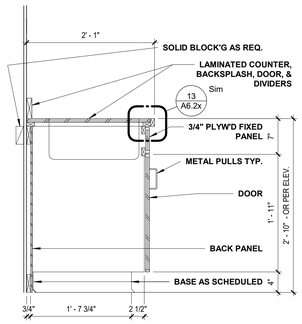
SHEET
A3.5



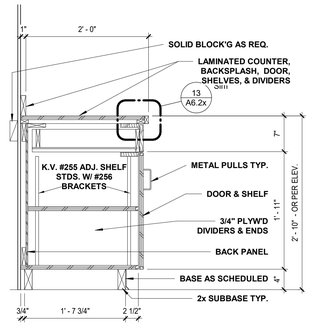
10 CASEWORK DETAIL - UPPER CABINET
1" = 1'-0"



9 CASEWORK DETAIL - BASE CABINET 4 DRAWER
1" = 1'-0"



8 CASEWORK DETAIL - BASE CABINET - SINK & DOOR
1" = 1'-0"



6 CASEWORK DETAIL - BASE CABINET - DRAWER W/ DOOR
1" = 1'-0"

GENERAL MILLWORK NOTES:

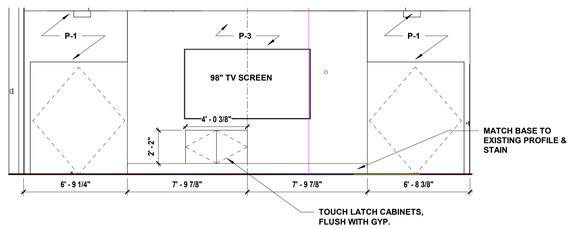
1. PROVIDE GROMMETS AS REQUIRED FOR TELEPHONES, ELECTRICAL EQUIPMENT, COMPUTERS, MONITORS, ECT. (FIELD LOCATE) SEE ELECTRICAL & SYSTEM PLANS. VERIFY WITH OWNER ANY AND ALL OTHER EQUIPMENT AS NEEDED FOR BANK OPERATIONS.

2. PROVIDE BLOCKING FOR ALL WALL MOUNTED CABINET, EQUIPMENT, ACCESSORIES, ECT.

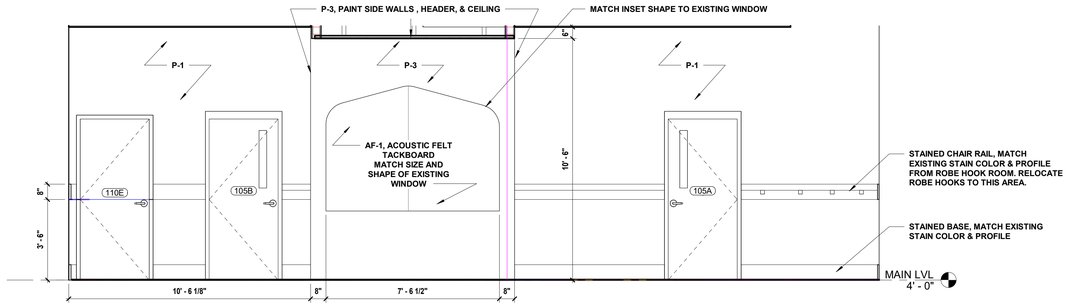
3. FIELD VERIFY ALL OWNER & CONTRACTOR FURNISHED EQUIPMENT AND DIMENSIONS WITH ALL MILLWORK DIMENSIONS. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTILLATION.

4. PVC EDGE TO BE COORDINATED TO MATCH FACE LAMINATE ON ALL MILLWORK.

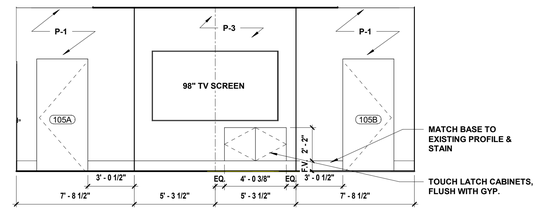
5. ALL STAIN GRADE MILLWORK TO FOLLOW "PREMIUM GRADE" A.W.I. FINISH STANDARDS.



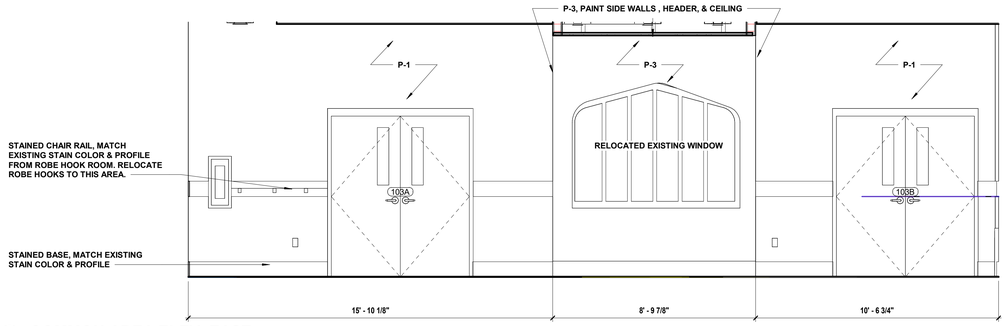
11 CONFRENCE 1 ELEV.
1/4" = 1'-0"



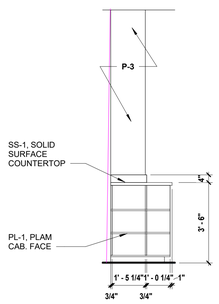
3 COMMON AREA WEST WALL
3/8" = 1'-0"



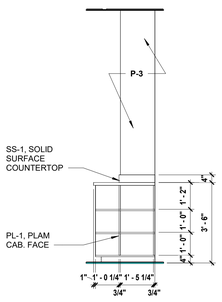
4 CONFERENCE 2 ELEV.
1/4" = 1'-0"



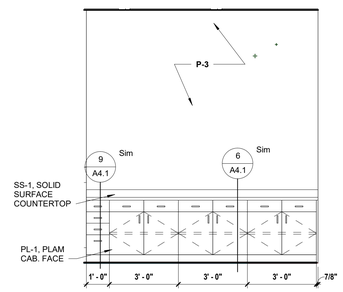
2 COMMON AREA ELEV. EAST
3/8" = 1'-0"



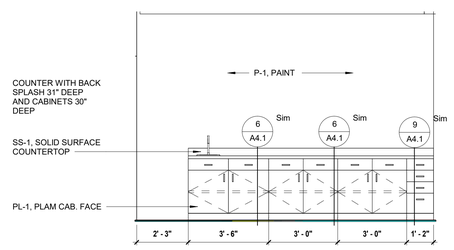
13 PREP AREA 2
3/8" = 1'-0"



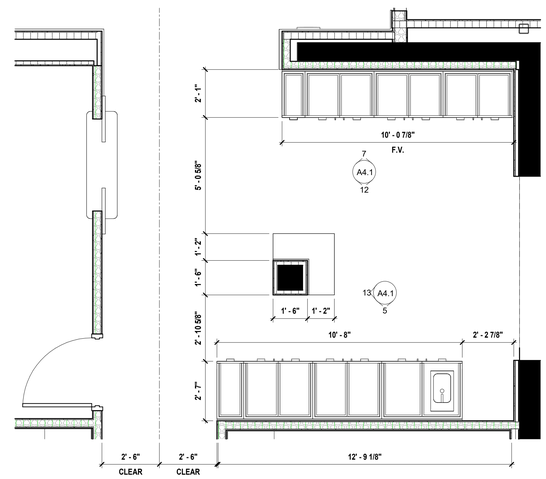
12 PREP AREA 1
3/8" = 1'-0"



7 SUPPORT
3/8" = 1'-0"



5 COFFEE
3/8" = 1'-0"



1 ENLARGED FOOD SERVICE PLAN
3/8" = 1'-0"

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WDD ARCHITECTS

REGISTERED ARCHITECT BRITTENEY L. DELOACH 6/9/26 ARKANSAS U.S.A.

PROJECT TITLE

ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST.
LITTLE ROC, AR 72207

CONTENTS

ENLARGED PLANS & INTERIOR ELEVATIONS

REVISIONS

NO.	DATE	DESCRIPTION

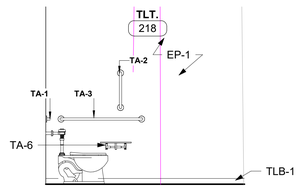
25-043
JOB. NO.

6/9/26
DATE
100% CONSTRUCTION DOCUMENTS

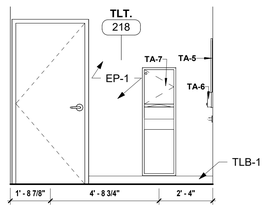
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A4.1

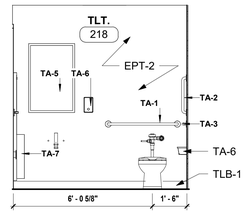
ACCESSORY SCHEDULE - TOILET			
KEYNOTE MARK	MODEL	MANUFACTURER	DESCRIPTION / REMARKS
TA-1	B-5806x36	Bobrick Washroom Equipment, Inc.	Bobrick B-5806x36 Straight Grab Bar
TA-2	B-5806x18	Bobrick Washroom Equipment, Inc.	Bobrick B-5806x18 Straight Grab Bar
TA-3	B-5806x42	Bobrick Washroom Equipment, Inc.	Bobrick B-5806x42 Straight Grab Bar
TA-5	0620	American Specialties	Stainless Steel
TA-6	B-2840	BOBRICK WASHROOM EQUIPMENT, INC.	Bobrick
TA-7	B-3942	Bobrick Washroom Equipment, Inc.	Bobrick B-3942 Classic Series Semi-Recessed Convertible Combination Towel and Waste Unit



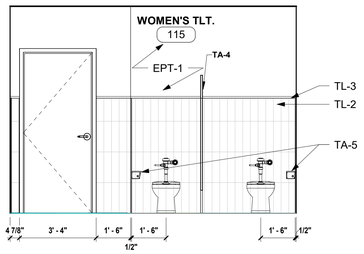
13 UPPER ELEV. TLT. 3
3/8" = 1'-0"



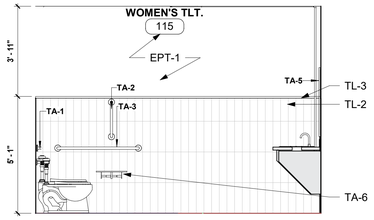
12 UPPER ELEV. TLT. 2
3/8" = 1'-0"



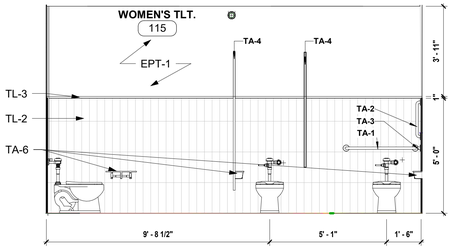
11 UPPER ELEV. TLT. 1
3/8" = 1'-0"



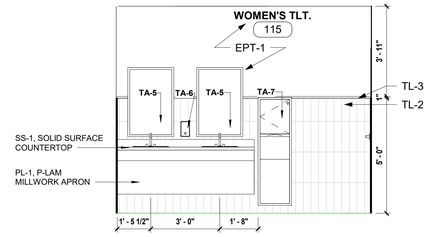
14 WOMEN'S TLT. ELEV. 4
3/8" = 1'-0"



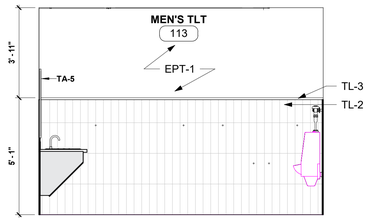
10 WOMEN'S TLT. ELEV. 3
3/8" = 1'-0"



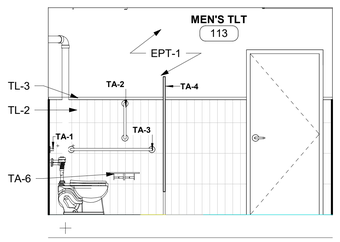
9 WOMEN'S TLT. ELEV. 2
3/8" = 1'-0"



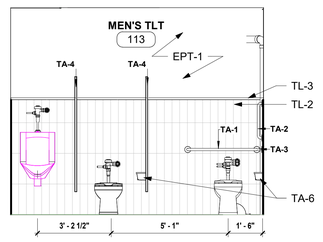
8 WOMEN'S TLT. ELEV. 1
3/8" = 1'-0"



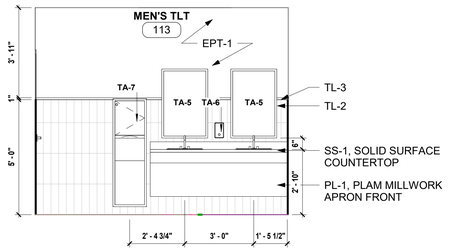
7 MEN'S TOILET ELEV. 3
3/8" = 1'-0"



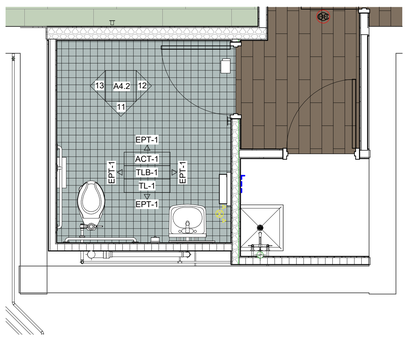
6 MEN'S TLT. ELEV. 3
3/8" = 1'-0"



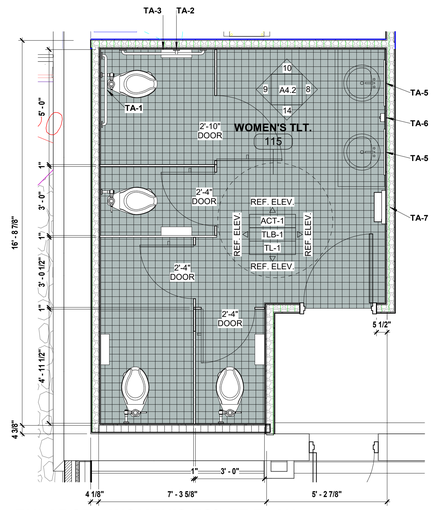
5 MEN'S TLT. ELEV. 2
3/8" = 1'-0"



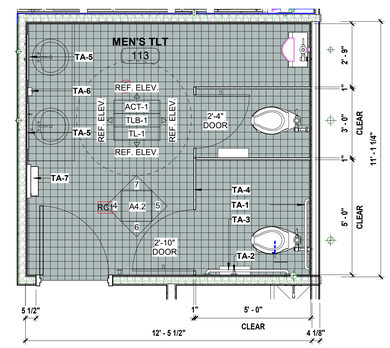
4 MEN'S TLT. ELEV 1
3/8" = 1'-0"



3 ENLARGED UPPER LEVEL TOILET PLAN
3/8" = 1'-0"



2 ENLARGED WOMEN'S TOILET PLAN
3/8" = 1'-0"



1 ENLARGED MEN'S TOILET PLAN
3/8" = 1'-0"

Autodesk Docs://St John's Byrne Hall Renovation/25-043 Byrne Hall Reno_R25_SD.rvt
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WDD ARCHITECTS

REGISTERED ARCHITECT
BRITTENBERG
DELORIS
6/9/26
ARKANSAS

PROJECT TITLE
ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST
LITTLE ROC, AR 72207

CONTENTS
ENLARGED TOILET PLANS

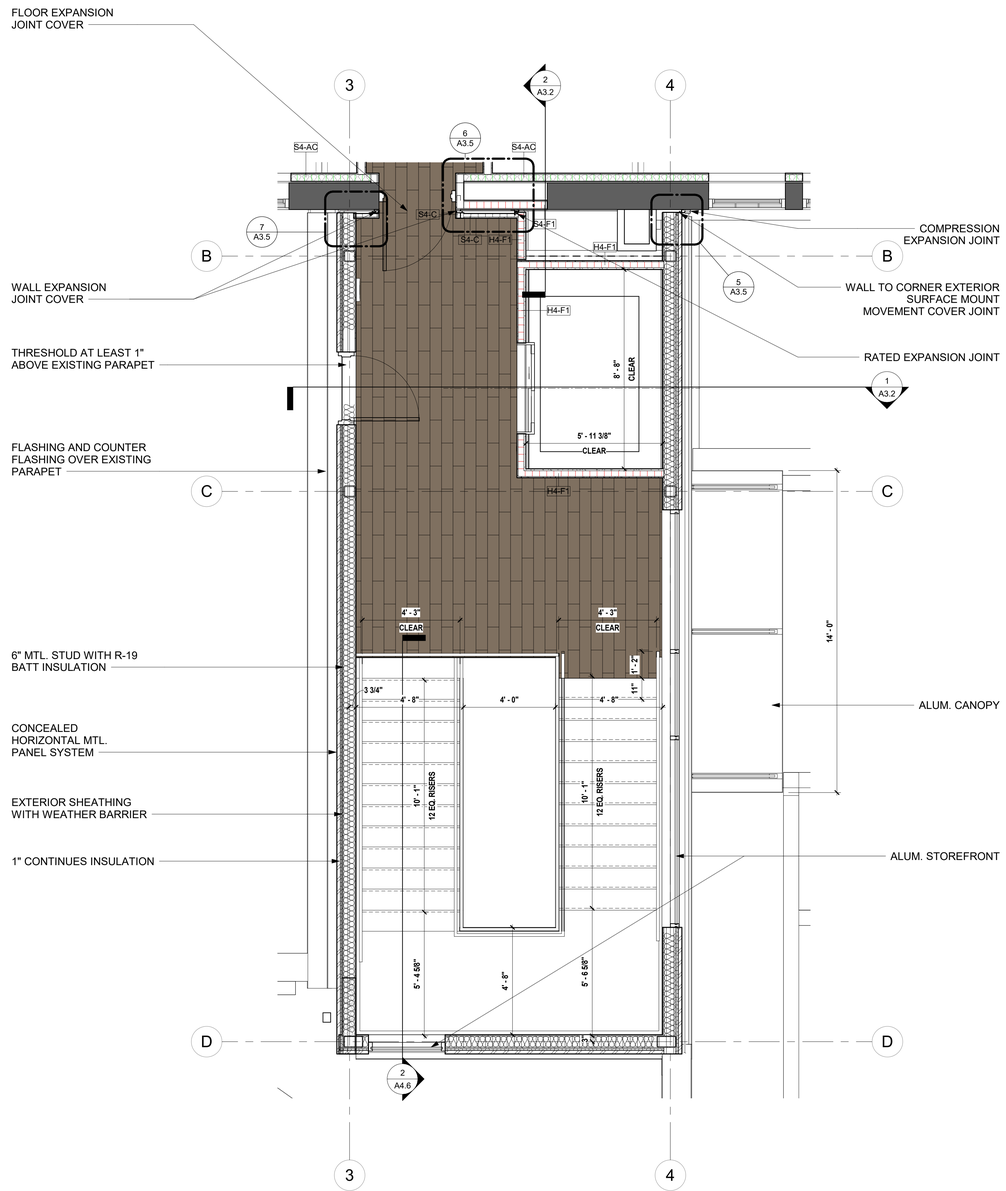
REVISIONS

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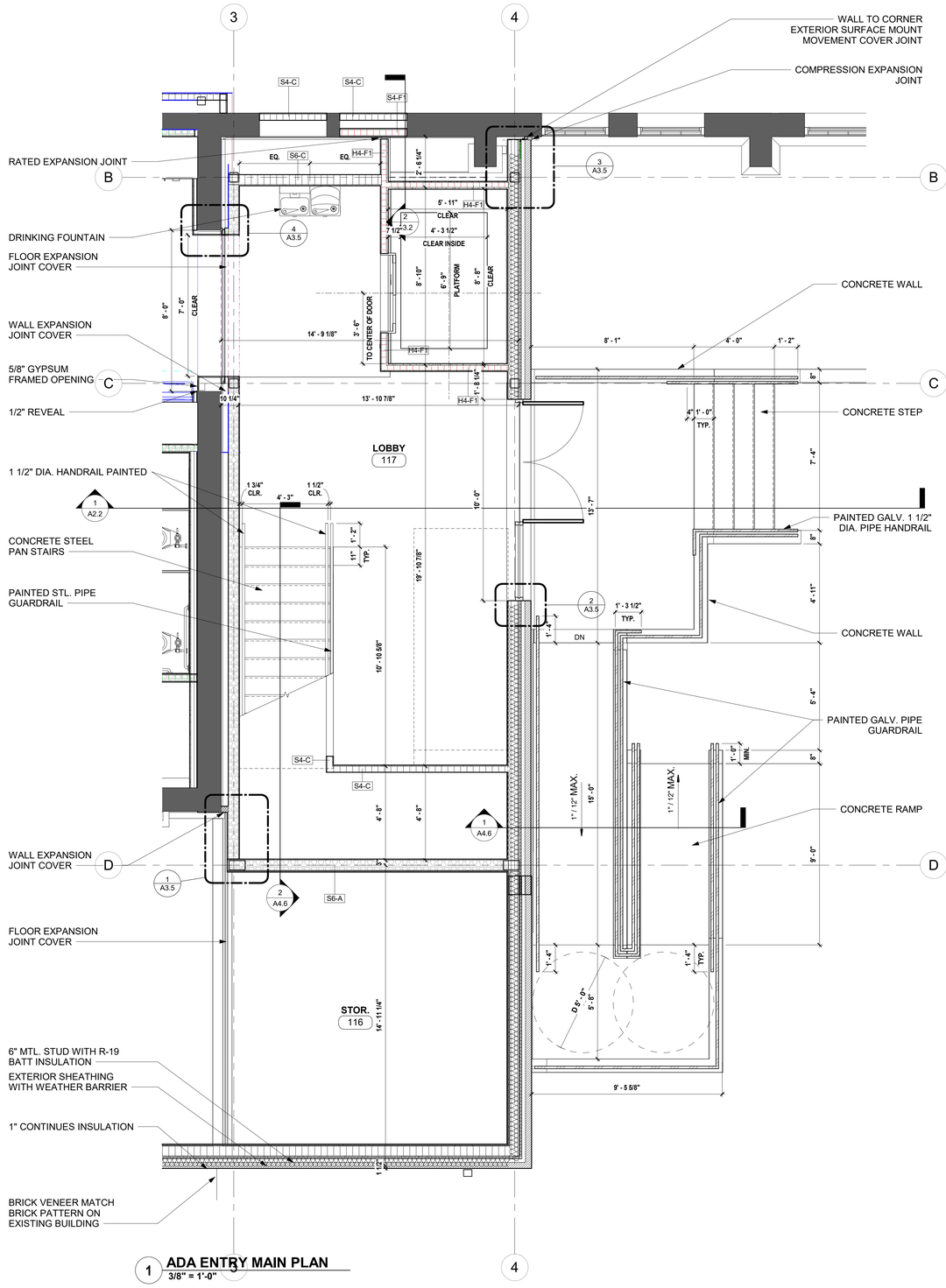
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2 ADA ENTRY UPPER LEVEL
3/8" = 1'-0"



1 ADA ENTRY MAIN PLAN
3/8" = 1'-0"

WDD ARCHITECTS
REGISTERED ARCHITECT
BRITTENBERG
DELOS
ARKANSAS
U.S.A.
6/9/26

PROJECT TITLE
ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST.
LITTLE ROC, AR 72207

CONTENTS
ENLARGED STAIR PLANS

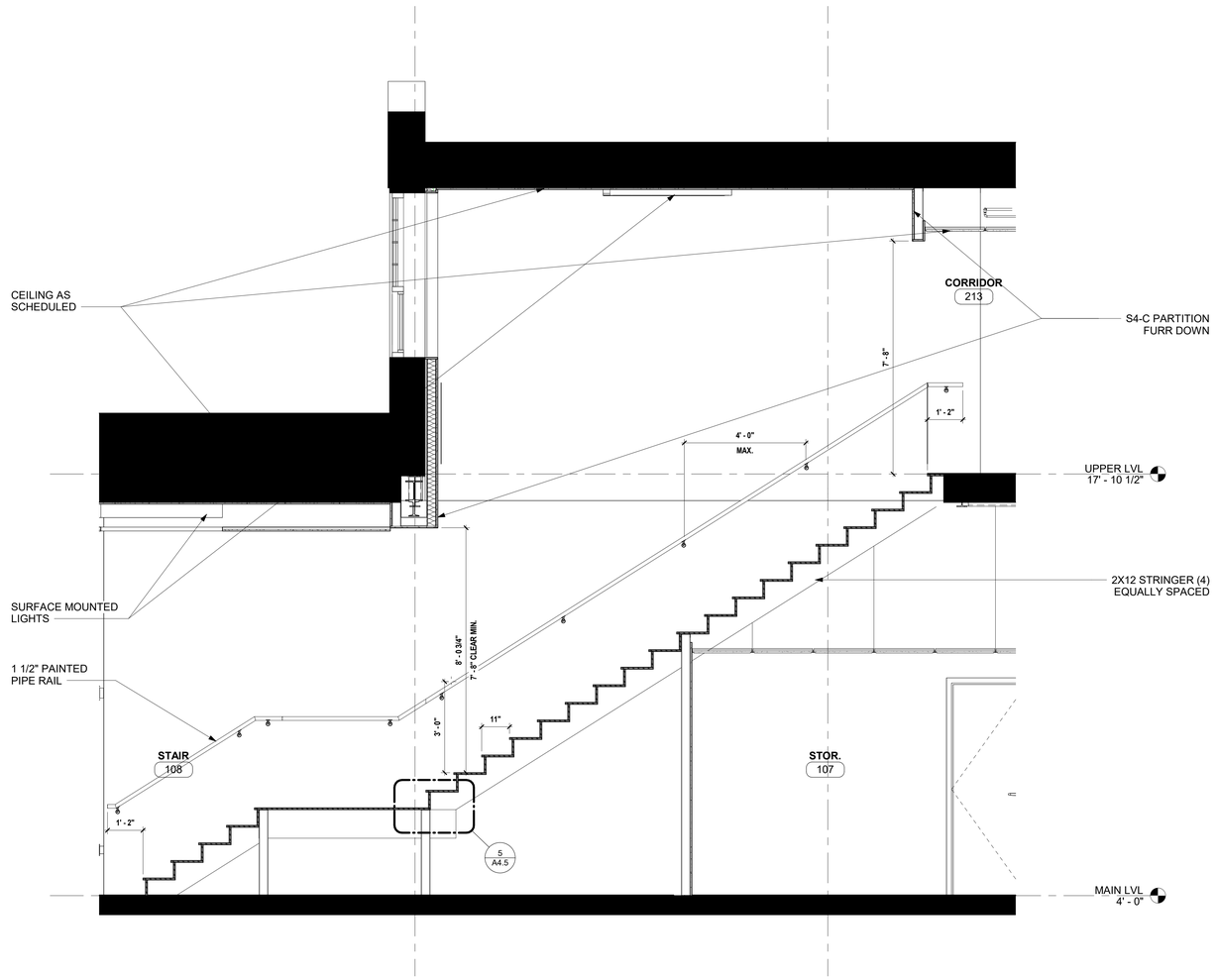
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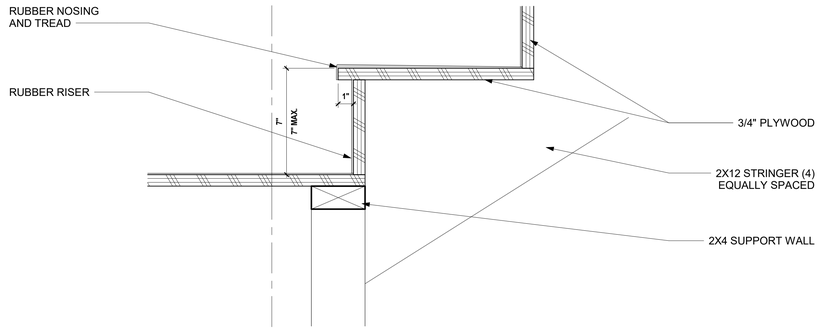
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A4.4

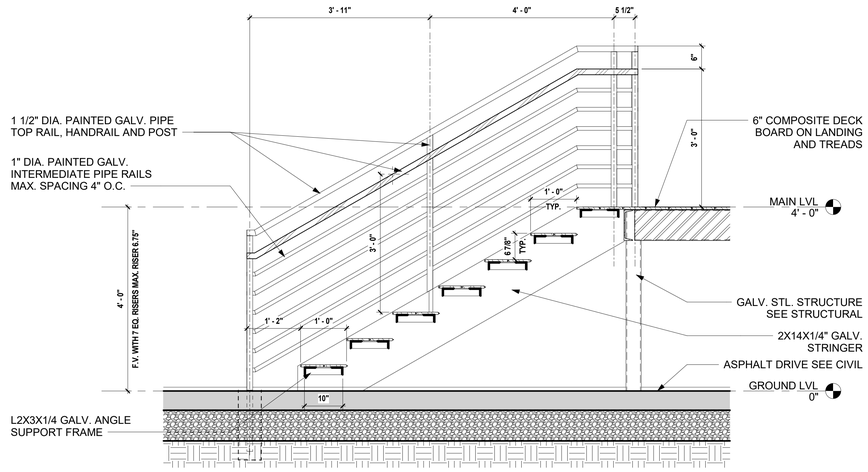
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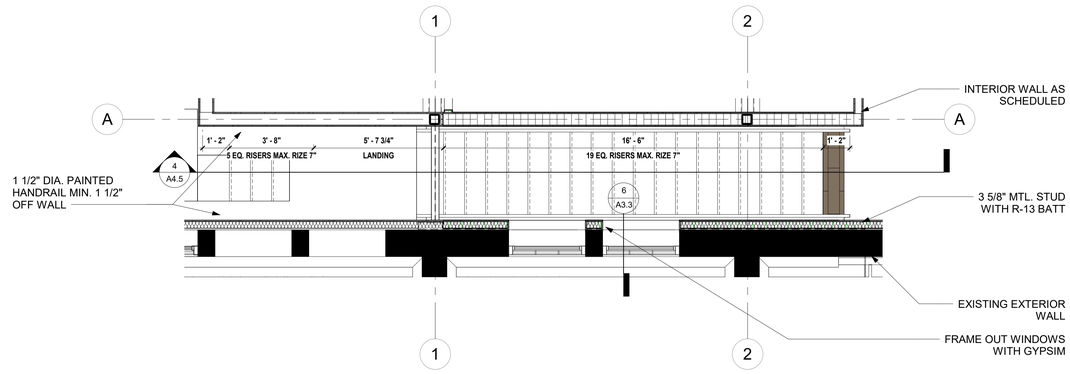
4 FIRE STAIR SECTION
1/2" = 1'-0"



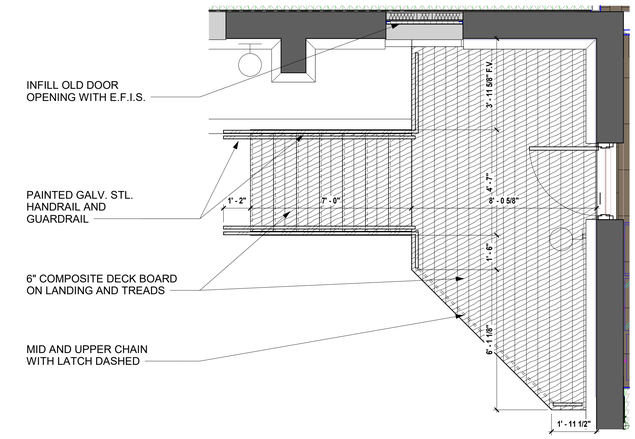
5 FIRE STAIR DETAIL
3" = 1'-0"



3 FOOD SERVICE STAIR SECTION
3/4" = 1'-0"



2 FIRE STAIR PLAN
3/8" = 1'-0"



1 FOOD SERVICE LOADING PLAN
3/8" = 1'-0"

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WDD ARCHITECTS

REGISTERED ARCHITECT
WILLIAM E. DILLENBECK, JR.
DELOACH
ARKANSAS
6/9/26

PROJECT TITLE

ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST.
LITTLE ROC, AR 72207

CONTENTS

ENLARGED STAIR PLANS
SECTIONS AND DETAILS

REVISIONS

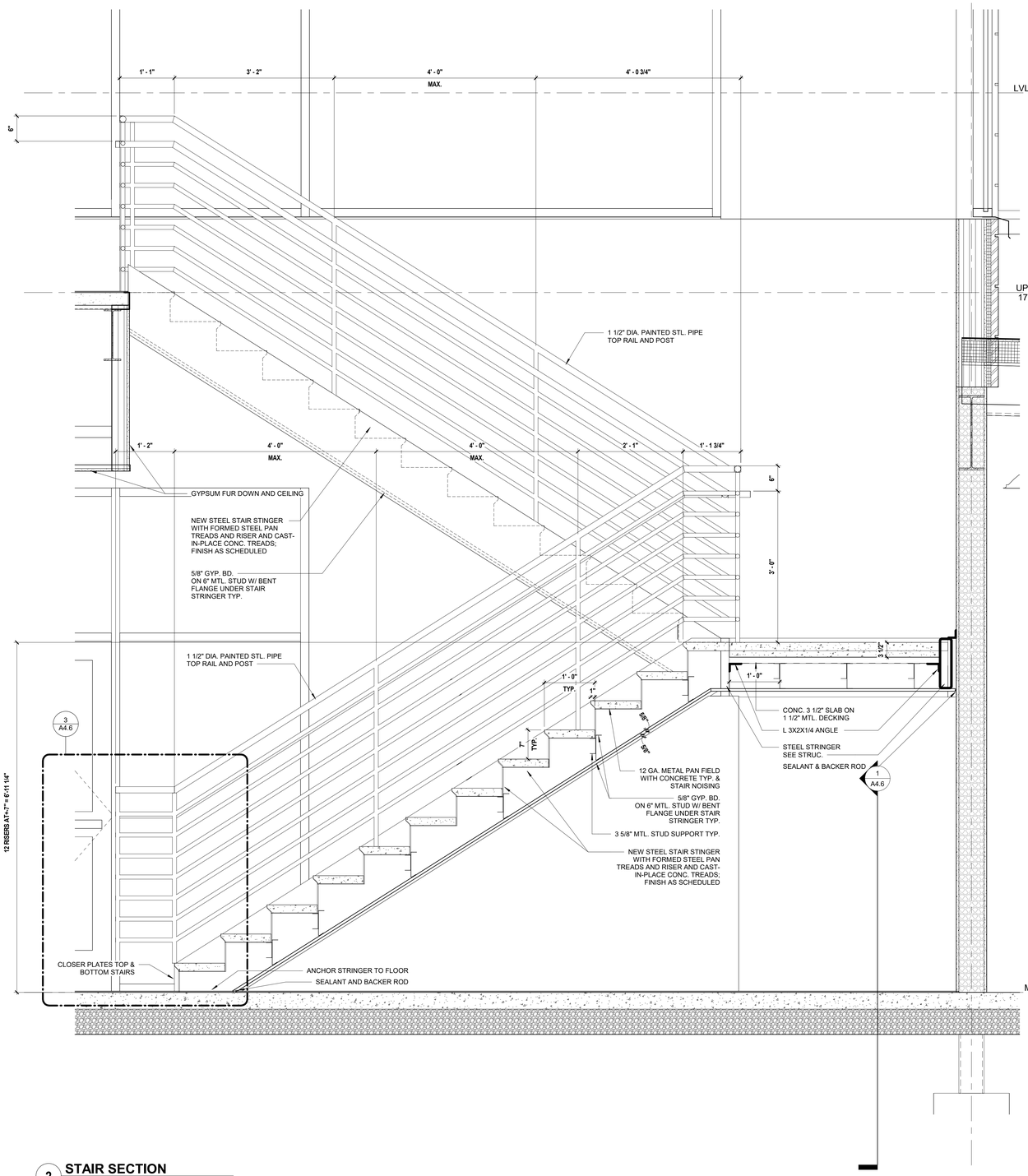
NO.	DATE	DESCRIPTION

25-043
JOB. NO.

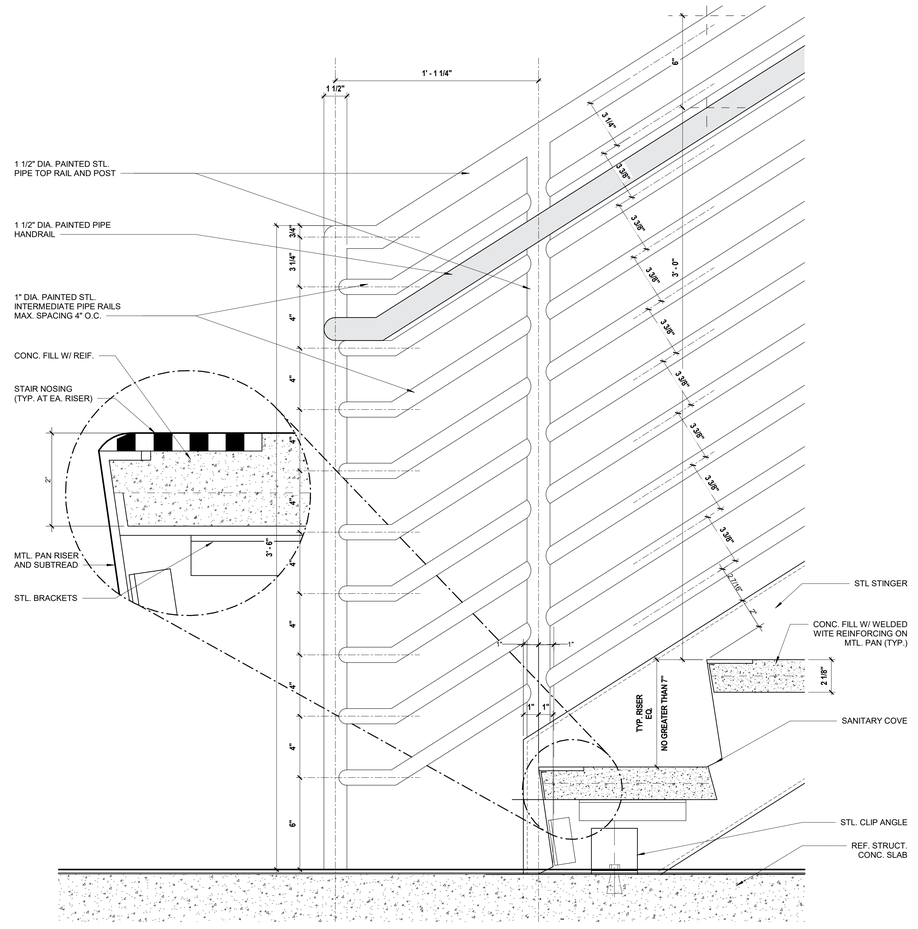
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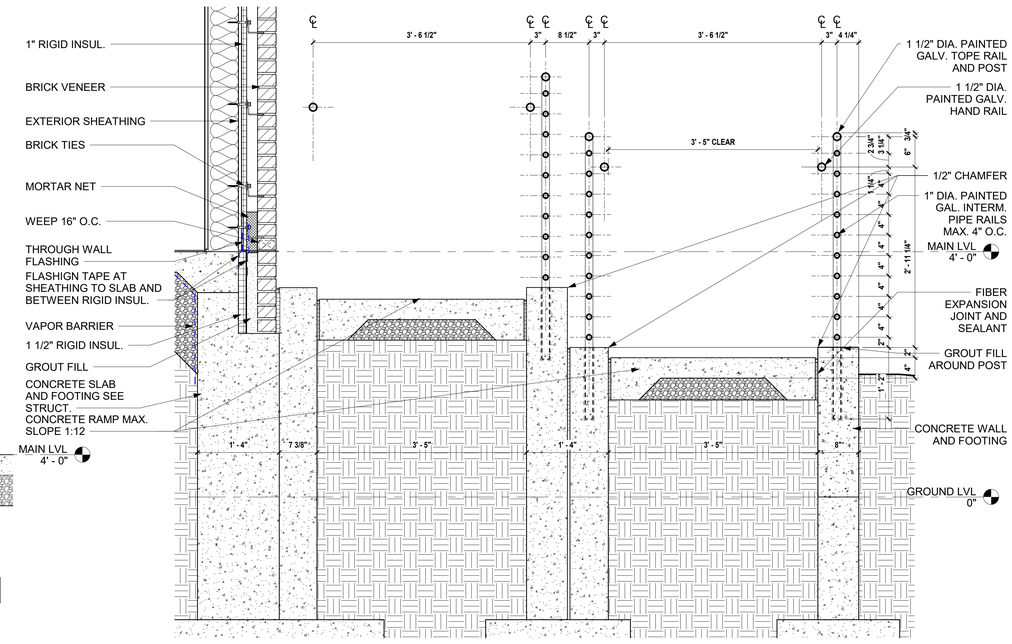
A4.5



2 STAIR SECTION
1" = 1'-0"



3 STAIR DTL.
3" = 1'-0"



1 ADA RAMP SECTION
1" = 1'-0"

WDD ARCHITECTS

REGISTERED ARCHITECT
M. WITTENBERG
DELONG
ARKANSAS
6/9/26

PROJECT TITLE
ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST.
LITTLE ROC, AR 72207

CONTENTS
ENLARGED STAIR SECTIONS AND DETAILS

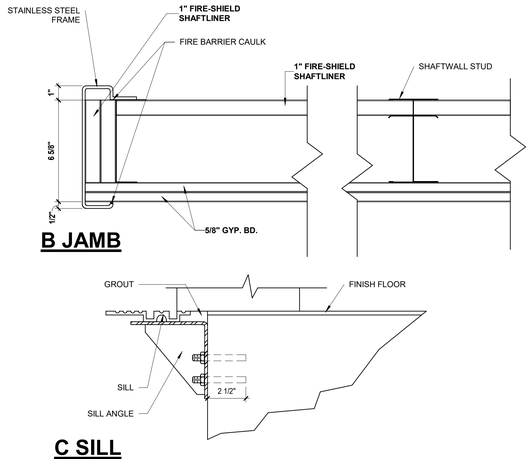
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NO.	DATE	DESCRIPTION

25-043
JOB. NO.
6/9/26
DATE
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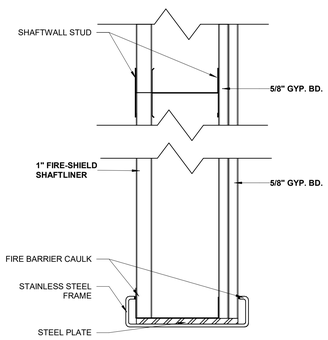
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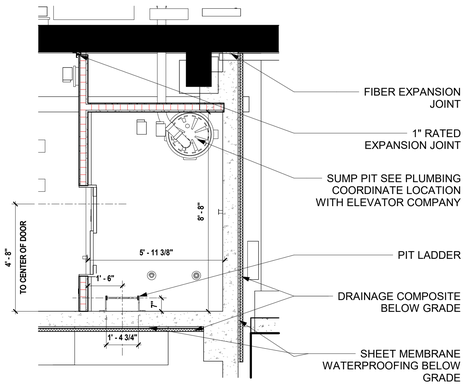
B JAMB

C SILL

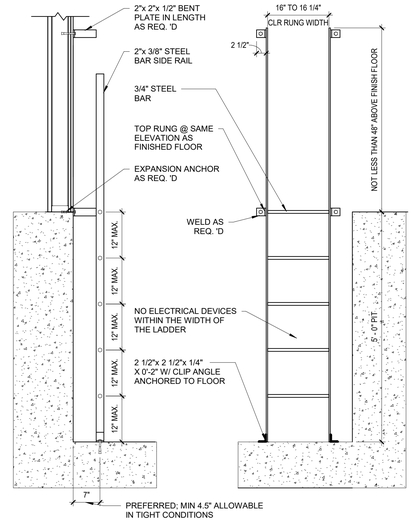


A HEAD

3 ELEVATOR - DOOR DETAIL
3" = 1'-0"



2 ELEVATOR PIT PLAN
3/8" = 1'-0"



1 ELEVATOR - PIT LADDER
3/4" = 1'-0"

WDD ARCHITECTS

REGISTERED ARCHITECT BRITTENUM DELOACH ARKANSAS 6/9/26

PROJECT TITLE

ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST
LITTLE ROC, AR 72207

CONTENTS

REVISIONS

NO.	DATE	DESCRIPTION

SHEET

ELEVATOR PLAN, SECTION, & DETAILS

25-043
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INTERIOR MATERIAL ABBREVIATIONS

--	NONE OR NOT APPLICABLE	PC	POLISHED CONCRETE
AC	ACOUSTICAL CLOUD	PD	PAINT DESIGN
ACT	ACOUSTICAL CEILING TILE	PL	PLASTIC LAMINATE
AP	ACRYLIC PANEL	PT	PORCELAIN TILE
AWT	ACOUSTICAL WALL TREATMENT	PTB	PORCELAIN TILE COVE BASE
CG	CORNER GUARD	RB	RESILIENT BASE
CPT	MODULAR CARPET TILE	RBF	RUBBER FLOORING
CT	CERAMIC TILE	RBN	RUBBER NOSING
DWC	DIGITAL WALLCOVERING	RS	ROLLER SHADES
EPB	EPOXY BASE	SC	SEALED CONCRETE
EP	EPOXY FLOORING	SF	SPORTS FLOORING
EPT	EPOXY PAINT	STR	STAIR TREAD
ETS	EXTRUDED THERMOFORMABLE SHEET	SS	SOLID SURFACE
EXP	EXPOSED	TP	TOILET PARTITION
GP	GLASS PANEL	TS	TRANSITION STRIP
GT	GROUT	VSF	VINYL SPORTS FLOORING
GWB	GYPSUM WALL BOARD	VWC	VINYL WALL COVERING
GYP	GYPSUM CEILING	WOC	WALK OFF CARPET
LVT	LUXURY VINYL TILE	WD	WOOD CEILING
P	PAINT	WP	WALL PROTECTION

INTERIORS GENERAL NOTES

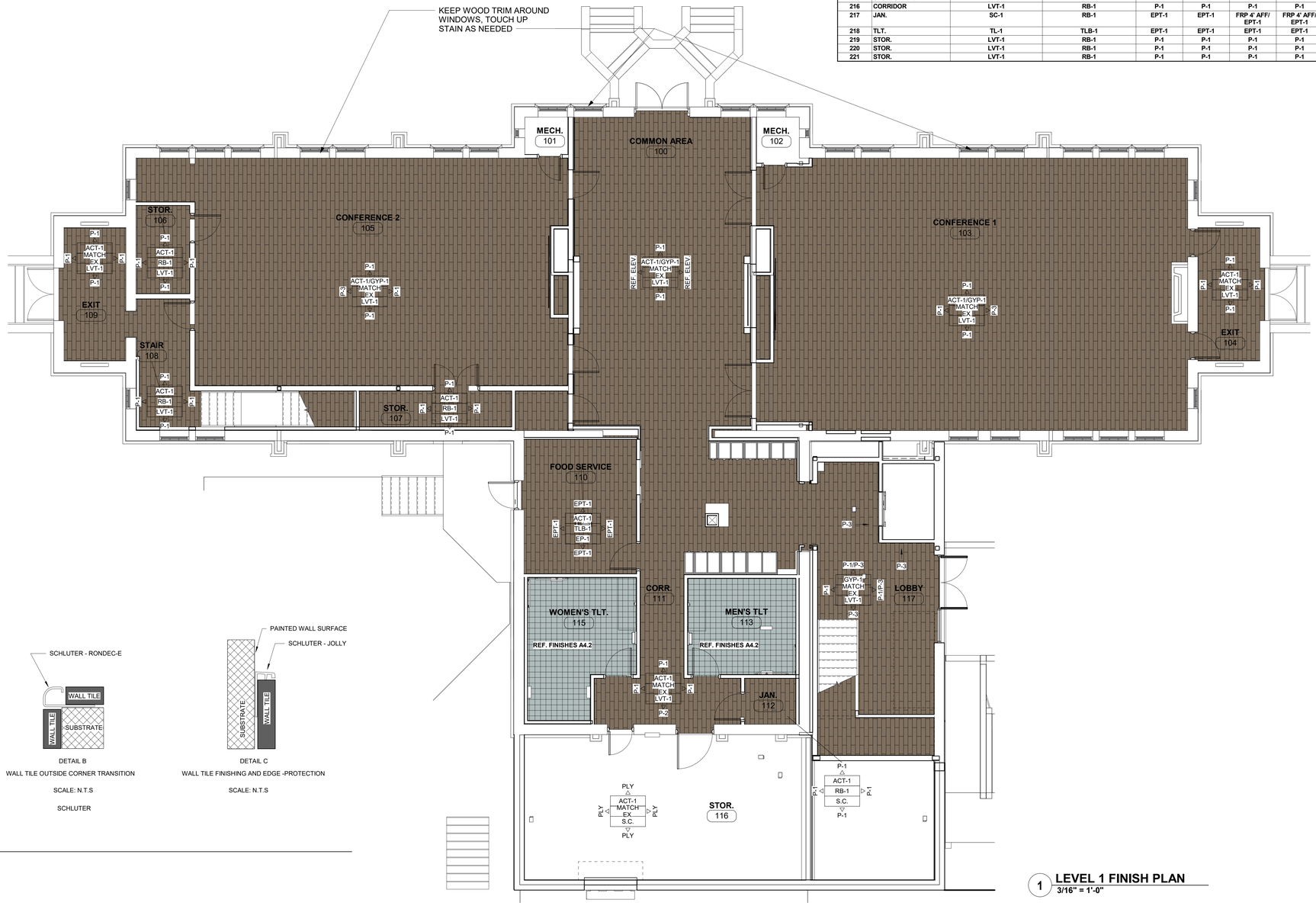
1. CONTRACTOR TO PROVIDE SAMPLES OF ALL SELECTED MATERIALS FOR ARCHITECT'S FINAL COLOR SELECTION AND APPROVAL PRIOR TO ORDERING.
2. ALL FINISH SELECTIONS ARE SUBJECT TO CHANGE UNTIL FINAL DRAWINGS ARE ISSUED.
3. ALL TRANSITION DETAILS TO BE COORDINATED WITH ARCHITECT PRIOR TO ORDERING. SEE FLOOR PATTERN PLANS FOR LOCATIONS.
4. ALL MENS & WOMENS RESTROOMS HAVING SOLID SURFACE COUNTERS TO RECEIVE UNDERMOUNTED SEAMLESS SOLID SURFACE ADA BOWLS, BV1512, COLOR: LINEN WHITE.
5. CONTRACTOR TO VERIFY WITH SUB. CONT. OR WINDOW SHADE SUPPLIER ALL DIMENSIONS, SIZES, POWER REQUIREMENTS, CONTROL AND MOUNTING REQUIREMENTS FOR ALL WINDOW SHADES MECH. AND WINDOW TREATMENT. LOCATIONS TO BE FOUND ON RCP.
6. CONTRACTOR TO VERIFY ALL WIRING REQUIRED FOR ALL AUTOMATED SHADES AND CONTROLS PRIOR TO GWB FINISH OUT.
7. ACCENT PAINT LOCATIONS AS INDICATED ON PAINT PLANS. WALL.
8. CG-1 AT ALL EXPOSED CORNERS.
9. ALL HOLLOW METAL DOORS AND FRAMES TO BE PAINTED, COLOR: SW UNLESS OTHERWISE NOTED ON PAINT PLANS. ACCENT FRAME COLORS TO BE FOUND ON PAINT PLANS.
10. ALL ROOMS WITH JANITOR SINKS TO RECEIVE FRP SPLASH ON ADJACENT WALLS. SEE FINISH SCHEDULE FOR COLOR SELECTION.
11. ALL FLOORING JOINTS TO ALIGN WITH CONTROL JOINTS. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH STRUCTURAL DRAWINGS.
12. ALL ELECTRICAL DEVICES, SWITCHES, AND OUTLET COVERS TO BE WHITE, UNLESS ON DARK PAINTED WALL. ALL DARK WALLS RECEIVE BROWN OUTLET COVERS.
13. EXPANSION JOINT LOCATIONS TO BE VERIFIED WITH STRUCTURAL DRAWINGS.
14. REFER TO RCP FOR LOCATIONS FOR GWB FURR DOWNS. ALL FURR DOWNS TO RECEIVE PAINT AS SCHEDULED.
    SEE PAINT PLANS FOR COLOR SELECTIONS.
15. COORDINATE ALL CEILING MATERIALS AND SIZES WITH RCP LAYOUT.
16. ALL SOLID SURFACE COUNTER WITH A 4" BACKSPLASH ARE TO BE INTEGRAL VERTICAL AND HORIZONTAL SURFACES.
17. LOCATION OF GROMMETS ON HORIZONTAL SURFACES TO BE VERIFIED BY ARCHITECT PRIOR TO INSTALL.
18. GC TO PROVIDE BLOCKING FOR ALL TV'S AND WALL HUNG ELECTRONIC EQUIPMENT.

PRODUCT LEGEND

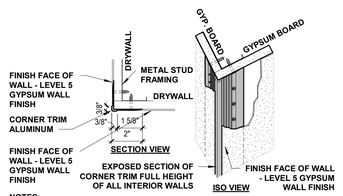
KEY	GENERIC DESCRIPTION	MANUFACTURER	STYLE	COLOR	FINISH	DIMENSIONS	LAYOUT	REMARKS	Product Category
BASE									
RB-1	RESILIENT BASE	JOHNSONITE	4" BASE	TA8 WELSH CASTLE	MATTE				BASE
TLB-1	TILE BASE	ANATOLIA	SOHO BULLNOSE	LOFT GREY	MATTE	2" X 8"			BASE
CEILING									
ACT-1	ACOUSTIC CEILING TILE	ROCKFON	TROPIC	WHITE		2X2 TEGULAR	REF RCP	9/16" WHITE GRID	CEILING
GYP-1	GYPSUM WALL BOARD		PAINTED	SW7042 SHOJI WHITE					CEILING
FLOOR									
CPT-1	CARPET TILE	INTERFACE	DRESSED LINES	108485 NATURAL		50CM X 50CM	ASHLAR	2ND FLOOR OFFICES	FLOOR
LVT-1	LUXURY VINYL TILE	INTERFACE	NATURAL WOODGRAINS	MADAGASCAR		25cm x 1m	ASHLAR	SOUND CHOICE BACKING	FLOOR
SC-1	SEALED CONCRETE								FLOOR
TL-1	TILE (FLOOR)	ANATOLIA	PLAID MOSAIC	EVENING BLEND	MATTE				FLOOR
MILLWORK									
PL-1	PLASTIC LAMIIATE	WILSONART	8286K-05	WALNUT PB EMBER	TIMBERGRAIN				MILLWORK
SS-1	SOLID SURFACE	WILSONART	9236SS	BEIGE TRAVERTINE					MILLWORK
MISC.									
CG-1	CORNER GUARDS	FRY REGLET	DRMCB1875	ANODIZED ALUMINUM	SATIN	FULL HGHT.			MISC.
FRP	FIBRE-REINFORCED PLASTIC	ACROVYN		WHITE					MISC.
GT-1	GROUT	LATICRETE							MISC.
RS-1	ROLLER SHADE	HUNTER DOUGLAS	E SCREEN 3%	CHARCOAL/COCA	FASCIA COLOR BLACK			MANUALSHADE	MISC.
TRANSITION STRIP									
TS-1	METAL TRANSITION STRIP	SCHLUTER	RENO-U	TBD				LVT-TILE	TRANSITION STRIP
TS-2	METAL TRANSITION STRIP	SCHLUTER	JOLLY	TBD				TILE- WALL	TRANSITION STRIP
WALL									
AF-1	ACOUSTIC WALL TREATMENT	KIREI	PET PANELS 12 MM	IVY				GLUE TO WALL	WALL
EPT-1	NTERIOR WALL PAINT (EPOXY)	SHERWIN WILLIAMS		SW 7042 SHJI WHITE	EPOXY			RESTROOMS/ FOOD SERVICE	WALL
P-1	NTERIOR WALL PAINT	SHERWIN WILLIAMS		SW7042 SHOJI WHITE	EGGSHELL			TYPICAL	WALL
P-2	NTERIOR WALL PAINT	SHERWIN WILLIAMS		SW7030 ANEW GRAY	EGGSHELL			ACCENT	WALL
P-3	NTERIOR WALL PAINT	BENJAMIN MOORE	2136-20	REGENT GREEN	EGGSHELL			ACCENT	WALL
PLY	5/8" PLYWOOD SHEATHING		4X8 SHEET	N/A					WALL
TL-2	TILE (WALL)	ANATOLIA	SOHO	HALO GREY	GLOSSY	2" X 12"	VERTICAL STRAIGHT STACK		WALL
TL-3	QUARTER ROUND TILE	ANATOLIA	QUARTER ROUND	HALO GREY	GLOSSY	12"			WALL

ROOM FINISH SCHEDULE

RM. NO.	ROOM NAME	FLOOR	BASE	NORTH	EAST	SOUTH	WEST	CEILING
001	ELEV. PIT							
002	ELEV. VEST.							
003	NORTH BASEMENT							
004	SEISMIC							
005	CENTRAL BASEMENT							
006	SOUTH BASMENT							
007	EAST BASEMENT							
008	MECH. BASEMENT							
100	COMMON AREA	LVT-1	MATCH EX.	P-1	REF. ELEV.	P-1	REF. ELEV.	ACT-1/GYP-1
101	MECH.	SC-1	RB-1	P-1	P-1	P-1	P-1	ACT-1
102	ELEV	N/A	N/A	N/A	N/A	N/A	N/A	N/A
102	MECH.	SC-1	RB-1	P-1	P-1	P-1	P-1	ACT-1
103	CONFERENCE 1	LVT-1	MATCH EX.	P-1	P-3	P-1	P-1	ACT-1/GYP-1
104	EXIT	LVT-1	MATCH EX.	P-1	P-1	P-1	P-1	ACT-1
105	CONFERENCE 2	LVT-1	MATCH EX.	P-1	P-1	P-1	P-3	ACT-1/GYP-1
106	STOR.	LVT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1
107	STOR.	LVT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1
108	STAIR	LVT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1
109	EXIT	LVT-1	MATCH EX.	P-1	P-1	P-1	P-1	ACT-1
110	FOOD SERVICE	EP-1	TLB-1	EPT-1	EPT-1	EPT-1	EPT-1	ACT-1
111	CORR.	LVT-1	MATCH EX.	P-1	P-1	P-2	P-1	ACT-1
112	JAN.	S.C.	RB-1	P-1	P-1	P-1	P-1	ACT-1
113	MEN'S TLT	TL-1	TLB-1	REF. ELEV.	REF. ELEV.	REF. ELEV.	REF. ELEV.	ACT-1
114	JAN.	SC-1	RB-1	FRP 4' AFF/ EPT-1	EPT-1	EPT-1	FRP 4' AFF/ EPT-1	ACT-1
114	IT							
115	WOMEN'S TLT.	TL-1	TLB-1	REF. ELEV.	REF. ELEV.	REF. ELEV.	REF. ELEV.	ACT-1
116	STOR.	S.C.	MATCH EX.	PLY	PLY	PLY	PLY	ACT-1
117	LOBBY	LVT-1	MATCH EX.	P-1/P-3	P-1/P-3	P-3	P-1	GYP-1
118	ELEV.							
200	LANDING	LVT-1	RB-1	P-1/P-3	P-1/P-3	P-3	P-1	ACT-1
201	ELEV.							
202	CORRIDOR	LVT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1
203	CORRIDOR	LVT-1	RB-1	P-2	P-1	P-1	P-1	ACT-1
204	STOR./OFFICE	CPT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1/GYP.
205	STOR./OFFICE	CPT-1	RB-1	P-1	P-2	P-1	P-1	ACT-1/GYP.
206	STOR./OFFICE	CPT-1	RB-1	P-1	P-1	P-1	P-2	ACT-1/GYP.
207	STOR./OFFICE	CPT-1	RB-1	P-1	P-1	P-1	P-2	ACT-1/GYP.
208	STOR./OFFICE	CPT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1
209	STOR./OPEN OFFICE	CPT-1	RB-1	P-3	P-1	P-1	P-1	ACT-1/GYP.
210	STOR./OFFICE	CPT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1
211	STOR./OFFICE	CPT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1
212	STORAGE	LVT-1	RB-1	P-1	P-1	P-1	P-2	ACT-1
212	STOR./OFFICE	CPT-1	RB-1	P-1	P-2	P-1	P-1	ACT-1/GYP.
213	CORRIDOR	LVT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1
214	STOR./OFFICE	CPT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1/GYP.
215	STOR./OFFICE	CPT-1	RB-1	P-1	P-2	P-1	P-1	ACT-1/GYP.
216	CORRIDOR	LVT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1
217	JAN.	SC-1	RB-1	EPT-1	EPT-1	FRP 4' AFF/ EPT-1	FRP 4' AFF/ EPT-1	ACT-1
218	TLT.	TL-1	TLB-1	EPT-1	EPT-1	EPT-1	EPT-1	ACT-1
219	STOR.	LVT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1
220	STOR.	LVT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1
221	STOR.	LVT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1

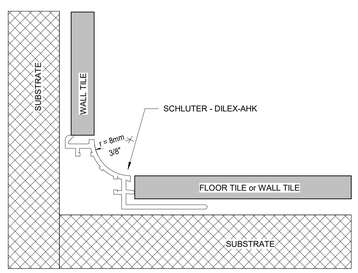


1 **LEVEL 1 FINISH PLAN**
3/16" = 1'-0"



NOTES:
1. FRY REGLET - CORNER TRIM COLOR- CLEAR ANODIZED
2. 3/8" DIM. EXPOSED CORNER DMCT-375 USED THROUGHOUT.
3. LOCATION NOTED ON PLAN AS "CG 2".

3 **CG-1 - CORNER GUARD**
3" = 1'-0"



DETAIL A
FLOOR TILE TO WALL TILE TRANSITION
WALL TILE INSIDE CORNER TRANSITION
SCALE: N.T.S

DETAIL B
WALL TILE OUTSIDE CORNER TRANSITION
SCALE: N.T.S
SCHLUTER

DETAIL C
WALL TILE FINISHING AND EDGE -PROTECTION
SCALE: N.T.S

NOTE:
2. ALL PROFILES SHOULD BE IN STAINLESS STEEL FINISH UNLESS OTHERWISE NOTED
1. PROVIDE ALL UNIVERSAL ACCESSORY PIECES TO PRODUCE 90 DEG. INSIDE CORNER, 90 DEG. OUTSIDE CORNER, AND END CAPS AS REQ.

2 **WALL & FLOOR TILE TRANSITION -SCHLUTER DETAILS**
FULL SCALE

Autodesk Docs://8 Jones Byrne Hall Renovation/25-043 Byrne Hall Reno_R25_S01.rvt
6/10/2026 2:08:03 PM

WDD ARCHITECTS
REGISTERED ARCHITECT BRITTENBERG DELOACH 6/9/26 ARKANSAS

PROJECT TITLE
ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST.
LITTLE ROC, AR 72207

CONTENTS
FINISH SCHEDULE & FINISH PLAN LEVEL 1

REVISIONS

NO.	DATE	DESCRIPTION

25-043
JOB. NO.

6/9/26
DATE
100% CONSTRUCTION DOCUMENTS

SHEET
A5.1



2 LEVEL 2 FINISH PLAN
3/16" = 1'-0"

WDD ARCHITECTS

REGISTERED ARCHITECT
BRIAN W. WITTENBERG
DELOACH
ARKANSAS
6/9/26

PROJECT TITLE

ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST.
LITTLE ROC, AR 72207

CONTENTS

FINISH PLAN - LEVEL 2

REVISIONS

NO.	DATE	DESCRIPTION

25-043
JOB. NO.

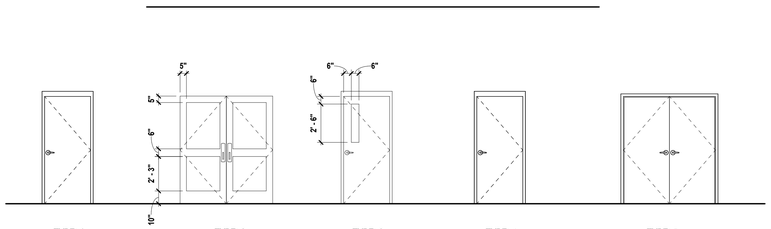
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DATE
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SHEET

A5.2

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DOOR LEGEND



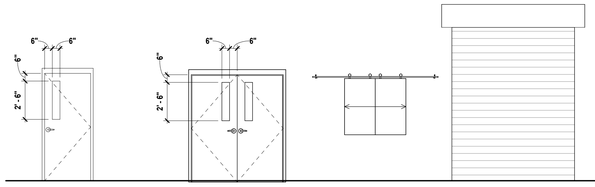
TYPE: 1
EXTERIOR SINGLE
HM

TYPE: 2
EXTERIOR DOUBLE
ALUM. STOREFRONT

TYPE: 3
EXTERIOR SINGLE W/
NARROW LITE
HM

TYPE: 4
INTERIOR SINGLE
WOOD

TYPE: 5
INTERIOR DOUBLE
WOOD



TYPE: 6
INTERIOR SINGLE
W/ NARROW LITE
WOOD

TYPE: 7
INTERIOR DOUBLE
W/ NARROW LITE
WOOD

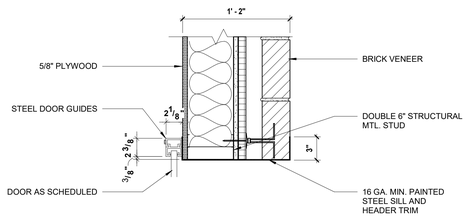
TYPE: 8
INTERIOR SLIDING
BARN DOUBLE
WOOD

TYPE: 9
INSUALTED STEEL
ROLLING DOOR

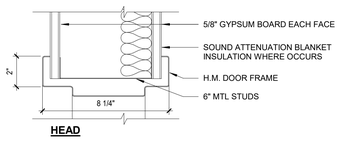
NOTE: PROVIDE DOOR STOPS AT ALL
INTERIOR DOORS THAT DOOR SWING MAY
CAUSE DAMAGE TO ADJACENT SURFACES.

SCHEDULE - DOOR SCHEDULE

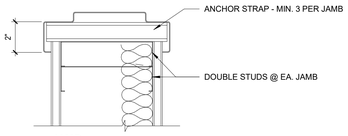
DOOR NUMBER	FROM ROOM:	TO ROOM:	DOOR TYPE	DOOR MATERIAL	WIDTH	HEIGHT	THICKNESS	FRAME MATERIAL	HARDWARE	RATING	REMARKS
001	ELEV. PIT	ELEV. VEST.	ELEV.	S.S.	3' - 0"	7' - 6"	1 3/16"	S.S.	002	1 HR.	ELEV. DOOR
002	ELEV. VEST.	NORTH BASEMENT	3	H.M.	3' - 0"	7' - 0"	1 3/4"	H.M.	401		
003	CENTRAL BASEMENT	NORTH BASEMENT	1	H.M.	3' - 0"	7' - 0"	1 3/4"	H.M.	201		
005	CENTRAL BASEMENT	EAST BASEMENT	1	H.M.	2' - 8"	7' - 0"	1 3/4"	H.M.	201		
006A	CENTRAL BASEMENT	SOUTH BASMENT	1	H.M.	3' - 0"	7' - 0"	1 3/4"	H.M.	201		
006C		SOUTH BASMENT	1	H.M.	3' - 0"	7' - 0"	1 3/4"	H.M.	715		
007	MECH. BASEMENT	EAST BASEMENT	1	H.M.	2' - 8"	7' - 0"	1 3/4"	H.M.	201		
008	MECH. BASEMENT		1	H.M.	2' - 8"	7' - 0"	1 3/4"	H.M.	205		
100			EXISTING	WOOD	6' - 0"	7' - 0"	1 3/4"	WOOD	714		EXISTING DOOR RESTORE , RESTAIN AND SEAL (NEW HARDWARE INCLUDING WEATHER SEALS)
101	MECH.	CONFERENCE 2	4	WOOD	2' - 6"	7' - 0"	1 3/4"	H.M.	201		
102	MECH.	CONFERENCE 1	4	WOOD	2' - 6"	7' - 0"	1 3/4"	H.M.	201		
103A	CONFERENCE 1		7	WOOD	6' - 0"	7' - 0"	1 3/4"	H.M.	700		
103B	CONFERENCE 1		7	WOOD	6' - 0"	7' - 0"	1 3/4"	H.M.	700		
104A	EXIT		EXISTING	WOOD	6' - 0"	6' - 6"	2"	WOOD	714M		EXISTING DOOR RESTORE , RESTAIN AND SEAL (NEW HARDWARE INCLUDING WEATHER SEALS)
104B	CONFERENCE 1	EXIT	4	WOOD	2' - 10"	7' - 0"	1 3/4"	WOOD	701		EXISTING FRAME W/ NEW DOOR, CONFIRM SIZE IN THE FIELD
104C	CONFERENCE 1	EXIT	4	WOOD	2' - 10"	7' - 0"	1 3/4"	WOOD	701		EXISTING FRAME W/ NEW DOOR, CONFIRM SIZE IN THE FIELD
105A	CONFERENCE 2		6	WOOD	3' - 0"	7' - 0"	1 3/4"	H.M.	701		
105B	CONFERENCE 2		6	WOOD	3' - 0"	7' - 0"	1 3/4"	H.M.	701		
105C	CONFERENCE 2	STAIR	4	WOOD	3' - 0"	7' - 0"	1 3/4"	H.M.	701CR		
106	STOR.	CONFERENCE 2	4	WOOD	3' - 0"	7' - 0"	1 3/4"	H.M.	201		
107	STOR.	CONFERENCE 2	5	WOOD	5' - 0"	7' - 0"	1 3/4"	H.M.	210		
108	STAIR	EXIT	19	WOOD	3' - 0"	7' - 0"	3/4"	WOOD	003		EXISTING FRAME TURN INTO CASE OPENING
109	EXIT		EXISTING	WOOD	6' - 0"	6' - 6"	2"	WOOD	714		EXISTING DOOR RESTORE , RESTAIN AND SEAL (NEW HARDWARE INCLUDING WEATHER SEALS)
110A		FOOD SERVICE	3	H.M.	3' - 0"	7' - 0"	1 3/4"	H.M.	715		EXISTNG OPENING CONFIRM SIZE
110B		FOOD SERVICE	6	WOOD	3' - 0"	7' - 0"	1 3/4"	H.M.	201		
110C	FOOD SERVICE		8	WOOD	4' - 0"	3' - 8"		S.S.	953L		LATCH TO SECURE PANELS TOGETHER, ON FOOD SERVICE SIDE
110E	IT		4	WOOD	3' - 0"	7' - 0"	1 3/4"	H.M.	201		
112	JAN.	CORR.	4	WOOD	3' - 0"	7' - 0"	1 3/4"	H.M.	203		
113	MEN'S TLT	CORR.	4	WOOD	3' - 0"	7' - 0"	1 3/4"	H.M.	801		
115	CORR.	WOMEN'S TLT.	4	WOOD	3' - 0"	7' - 0"	1 3/4"	H.M.	801		
116A	STOR.		9	MTL.	6' - 0"	8' - 0"	2"	MTL.	002		
116B	CORR.	STOR.	4	WOOD	2' - 8"	7' - 0"	1 3/4"	MTL.	201		EXISTNG OPENING CONFIRM SIZE
116C	CORR.	STOR.	4	WOOD	4' - 0"	7' - 0"	1 3/4"	MTL.	201		EXISTNG OPENING CONFIRM SIZE
117	LOBBY		2	ALUM.	6' - 0"	7' - 0"	1 3/4"	ALUM.	714A		
118	ELEV.	LOBBY	ELEV.	S.S.	3' - 0"	7' - 6"	1 3/16"	S.S.	002	1 HR.	ELEV. DOOR
200A	LANDING	CORRIDOR	4	WOOD	3' - 0"	7' - 0"	1 3/4"	H.M.	701C		EXISTNG OPENING CONFIRM SIZE
200B	LANDING		1	H.M.	2' - 10"	5' - 0"	1 3/4"	H.M.	205		THRESHOLD CLEAR EXISTING PARAPET
201	ELEV.	LANDING	ELEV.	S.S.	3' - 0"	7' - 6"	1 3/16"	S.S.	002	1 HR.	ELEV. DOOR
202	CORRIDOR	CORRIDOR	63		3' - 6"	7' - 0"	3/4"	H.M.	003		CASE OPENING
204	CORRIDOR	STOR./OFFICE	4	WOOD	3' - 0"	7' - 0"	1 3/4"	H.M.	101		
205	STOR./OFFICE	CORRIDOR	4	WOOD	3' - 0"	7' - 0"	1 3/4"	H.M.	101		
206	CORRIDOR	STOR./OFFICE	4	WOOD	3' - 0"	7' - 0"	1 3/4"	H.M.	101		
207	CORRIDOR	STOR./OFFICE	4	WOOD	3' - 0"	7' - 0"	1 3/4"	H.M.	101		
208	CORRIDOR	STOR./OFFICE	4	WOOD	3' - 0"	7' - 0"	1 3/4"	H.M.	101		
209	CORRIDOR	STOR./OPEN OFFICE	17	WOOD	5' - 2"	7' - 0"		WOOD	200		RELOCATED DOOE AND SIDELIGHT FROM MAIN LEVEL ENTRY VESTIBULE
210	STOR./OFFICE	CORRIDOR	4	WOOD	3' - 0"	7' - 0"	1 3/4"	H.M.	101		
211	CORRIDOR	STOR./OFFICE	4	WOOD	3' - 0"	7' - 0"	1 3/4"	H.M.	101		
212	STOR./OFFICE	CORRIDOR	4	WOOD	3' - 0"	7' - 0"	1 3/4"	H.M.	101		
213	CORRIDOR	CORRIDOR	4	WOOD	3' - 0"	7' - 0"	1 3/4"	H.M.	201		
214	STOR./OFFICE	CORRIDOR	4	WOOD	3' - 0"	7' - 0"	1 3/4"	H.M.	101		
215	STOR./OFFICE	CORRIDOR	4	WOOD	3' - 0"	7' - 0"	1 3/4"	H.M.	101		
216	CORRIDOR	CORRIDOR	63		3' - 6"	7' - 0"	3/4"	H.M.	003		CASE OPENING
217	JAN.	CORRIDOR	4	WOOD	3' - 0"	7' - 0"	1 3/4"	H.M.	203		
218	CORRIDOR	TLT.	4	WOOD	3' - 0"	7' - 0"	1 3/4"	H.M.	303		
219	STOR.	CORRIDOR	4	WOOD	2' - 6"	7' - 0"	1 3/4"	H.M.	203S		
220	STOR.	CORRIDOR	4	WOOD	2' - 6"	7' - 0"	1 3/4"	H.M.	203S		
221	STOR.	CORRIDOR	4	WOOD	2' - 6"	7' - 0"	1 3/4"	H.M.	203S		



5 DOOR DETAIL - INTERIOR - OVERHEAD JAMB DETAIL - SURFACE MOUNT
1 1/2" = 1'-0"

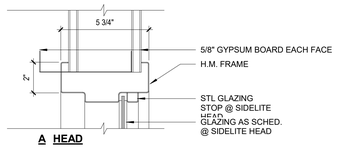


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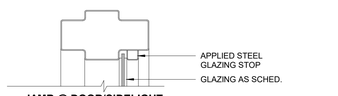


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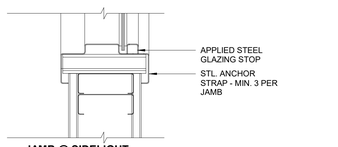
4 DOOR DETAIL - INTERIOR - H.M. @ GYPSUM ON 6" MTL STUDS
3" = 1'-0"



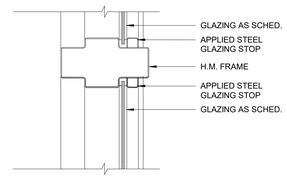
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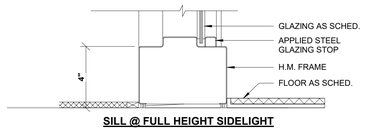
JAMB @ DOOR/SIDELIGHT



JAMB @ SIDELIGHT

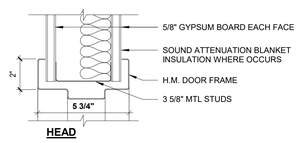


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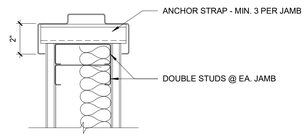


SILL @ FULL HEIGHT SIDELIGHT

3 DOOR DETAIL - INTERIOR - H.M. @ GYPSUM ON 3 5/8" MTL STUDS W/ SIDELITE
3" = 1'-0"

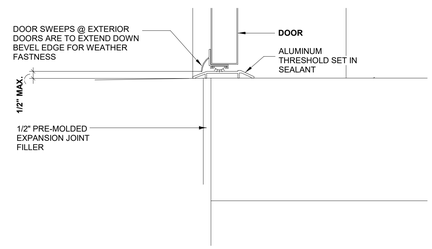


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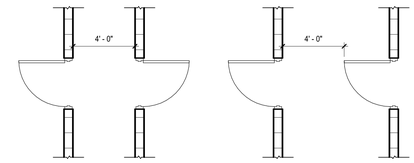


JAMB

2 DOOR DETAIL - INTERIOR - H.M. @ GYPSUM ON 3 5/8" MTL STUDS
3" = 1'-0"

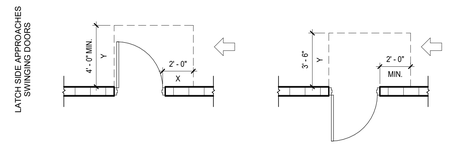


1 DOOR DETAIL - EXTERIOR - TYPICAL THRESHOLD
3" = 1'-0"



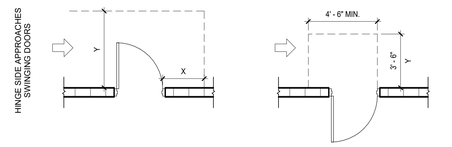
TWO HINGED DOORS IN SERIES
SWINGS AWAY FROM EACH OTHER

TWO HINGED DOORS IN SERIES
SWINGS SAME DIRECTION



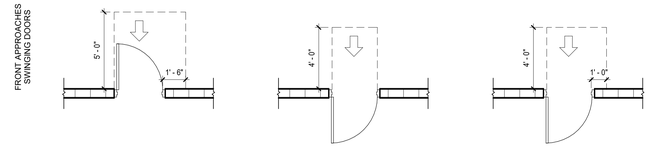
Y= 54" MIN. IF DOOR HAS A CLOSER

Y = 48" MIN IF DOOR HAS A CLOSER



X= 36" MIN. IF Y = 60"
X= 42" MIN. IF Y = 54"

Y = 48" MIN IF DOOR HAS
BOTH A LATCH AND CLOSER



PULL SIDE

PUSH SIDE

PUSH SIDE
IF DOOR HAS BOTH A CLOSER AND LATCH

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

WDD ARCHITECTS

REGISTERED ARCHITECT
WILLIAM T. DUNN
ARKANSAS
6/9/26

PROJECT TITLE
ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST.
LITTLE ROC, AR 72207

CONTENTS
DOOR SCHEDULE & DETAILS

REVISIONS

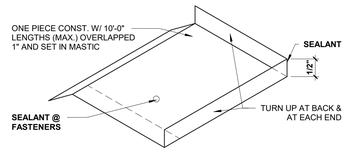
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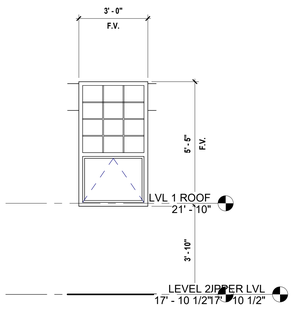
6/9/26
DATE
100% CONSTRUCTION DOCUMENTS

SHEET
A5.3

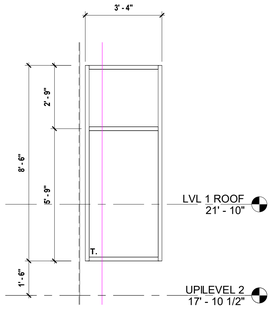
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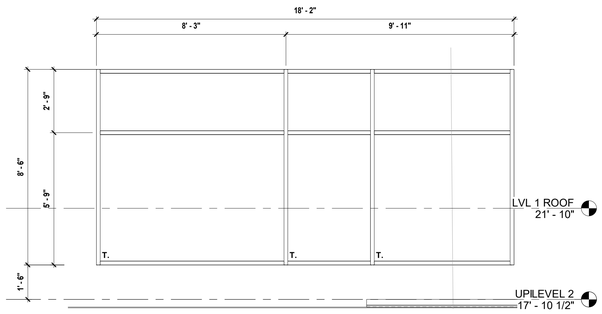
6 WINDOW - SUBSILL DETAIL @ ALL EXTERIOR WINDOWS
N.T.S.



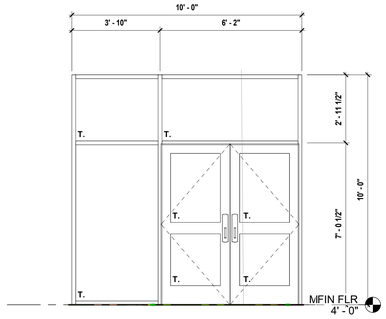
5 V1
3/8" = 1'-0"



3 AL3
3/8" = 1'-0"



2 AL2
3/8" = 1'-0"



1 AL1
3/8" = 1'-0"

GENERAL NOTE:
T = CLEAR TEMPERED GLAZING

WDD ARCHITECTS

REGISTERED ARCHITECT
BRITTENEY DELOACH
ARKANSAS
6/9/26

PROJECT TITLE
ST JOHNS CENTER
BYRNE HALL RENOVATION
2417 N TYLER ST
LITTLE ROC, AR 72207

CONTENTS

REVISIONS

NO.	DATE	DESCRIPTION

SHEET
WINDOW SCHEDULE & DETAILS

25-043
JOB. NO.

6/9/26
DATE
100% CONSTRUCITION DOCUMENTS

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GENERAL NOTES

In case of conflict between the General Notes below and the Specifications, the more rigid requirement shall govern unless amended in writing by the Structural Engineer of Record.

DESIGN DATA

1. Design Codes - (All latest editions unless noted otherwise.)
   - International Building Codes (IBC 2021)
   - Arkansas Fire Prevention code 2021
   - American Society of Civil Engineers (ASCE 7-10) : Minimum Design Loads for Buildings and Other Structures
   - American Concrete Institute (ACI)
   - American Institute of Steel Construction (AISC)
   - American Welding Society (AWS)
   - American Iron and Steel Institute Specifications for the Design of Cold Formed Steel Structural Members (AISI)
   - National Design Specification for Wood Construction (ANSI/AF&PA NDS-2001)
   - Steel Deck Institute (SDI)
   - Steel Joist Institute (SJI)
2. Design Loads (IBC & ASCE7)
   - Dead Load Design Data
     - Structure — Self Weight
     - Roof — Self Weight
     - Floor — Self Weight
   - Live Load Design Data
     - Floor Distributed
       - Offices — 50 psf
       - Corridors Above — 80 psf
       - Lobby — 100 psf
     - Floor Concentrated
       - Offices — 2000 lbs
       - Corridors Above — 2000 lbs
       - Lobbies — 200 lbs
     - Partition Load — 15 psf of wall area (Reducible per code)
   - Live Roof Load Design Data
     - Roof (Flat) — 20 psf
   - Wind Design Data
     - Risk Category — II
     - Velocity — 105 mph
     - Wind Exposure Category — C
     - Internal Pressure Coefficient, GC_{pi} — 0.18 ±
   - Snow Design Data
     - Importance Factor for Snow, I_s — 1.0
     - Ground Snow Load, P_g — 10 psf
     - Exposure Coefficient C_e — 1.0
     - Thermal Factor C_t — 1.0
     - Roof Slope Factor, C_s — 1.0
     - Flat Roof Snow Load P_f — 7 psf (Use min 10.4 psf w/Rain on Snow Surcharge)
   - Seismic Criteria
     - Risk Category
     - Seismic Importance Factor, I_E — 1.0
     - Site Soil Class — D
     - Mapped Spectral Response Coefficients — S_s = 0.389 / S_1 = 0.149; S_{ds} = 0.368 / S_{d1} = 0.229
     - Seismic Design Category — D
     - Basic Seismic Force Resisting System
       1. Existing Structure — Masonry Bearing Wall
       2. Elevator Building — Steel Ordinary Moment Frames
       3. Storage Building — Light-frame (cold-formed steel) Walls Sheathed with Wood Structural Panels Rated for Shear Resistance
     - Analysis Procedure — Equivalent Lateral Force
   - Flood Design Data
     - Flood Zone — X
   - Rain Design Data
     - 15-Minute Intensity — 6.50 in/hr
     - 60-Minute Intensity — 3.26 in/hr
   - Deflection and Drift Limitations
     - Roof/Floor Members — L/360
     - Building Drift — H/400
     - Max Wall Deflection — L/600
     - Story Drift (Seismic) — 0.025 h_{sx}

Date: June 09, 2026

Patrick M. Plourde P.E.
Arkansas Registration No. 10449

GENERAL INFORMATION

1. All columns shall be centered on grid lines unless noted otherwise.
2. All column footings shall be centered on columns unless noted otherwise.
3. All wall footings shall be centered on walls unless noted otherwise.
4. Unless otherwise noted or detailed, concrete pads for mechanical equipment shall be 4" thick (minimum) and reinforced with #3 @ 12" O.C. each way centered.
5. Substitution of expansion anchors for embedded anchors shall not be permitted without prior, written approval from the engineer of record.
6. Weights of mechanical equipment shown on the structural plans are for units specified by the Mechanical Engineer. Contractor shall verify weight and any substitutions that result in increased weight shall be approved by the Structural Engineer.
7. Backfill both sides of all foundation and retaining walls equally until low side is up to finish grade. Do not backfill any walls until concrete has reached its specified 28-day compressive strength.
8. Permanent stability of the building and components is not provided until the erection is completed as shown on the contract drawings. Per AISC Latest Edition Code of Standard Practice, "Temporary supports, such as temporary guys, braces, framework, cribbing or other elements required for the erection operation will be determined, furnished and installed by the erector."
9. The contractor shall insure that no construction load exceeds the design live loads indicated on the structural drawings and that these loads are not put on the structural members prior to the time that all framing members and their connections are in place.
10. The contractor shall be responsible for verifying all existing conditions. The contractor shall be responsible for coordinating architectural, structural, mechanical, and electrical details and dimensions. Any discrepancies between such details and dimensions shall be reported to the EOR prior to proceeding with the work.
11. The contractor shall be responsible for erection procedure and sequence to insure the integrity of the building and it's component parts during construction.

SUBMITTALS

1. Review of shop drawings and other submittals by the Structural Engineer does not relieve the Contractor of the responsibility to review and check shop drawings before submitting to the Structural Engineer. The contractor remains solely responsible for errors and omissions associated with the preparation of shop drawings as they pertain to member sizes, details, and dimensions specified in the Contract Documents. All shop drawings must be stamped by the Contractor prior to submittal.
2. Shop Drawings: The Contractor shall submit for Structural Engineer review shop drawings for the following items. Items marked (*) shall have shop drawings sealed by a Professional Engineer registered in the state in which the project is located. Items marker (#) shall be submitted for Structural Engineer's record only.
   A. Structural Steel
   B. Shoring Plans
   C. Steel Stairs (*)
   D. Steel Deck
   E. Concrete Mix Designs
   F. Cold-Formed Metal Framing (*)
   G. CMU Reinforcing Steel
   H. Concrete Reinforcing Steel
   I. Wood Joists (*)
3. Design Calculations: The Contractor shall submit for Structural Engineer's record, design calculations sealed by a Professional Engineer registered in the state in which the project is located for the following items.
   A. Structural Steel Connections
   B. Shoring Plans
   C. Steel Joist (see steel joist section of General Notes)
   D. Cold-Formed Metal Framing
   E. Wood Joists (*)

EXISTING CONSTRUCTION

1. The Contractor is responsible for protecting and maintaining the structural integrity of the existing building at the interface connections during all stages of construction.
2. Connections, Additions and Alterations as shown to existing building are based on Original Structural Drawings and on a Visual Observation of the project site.
3. The Contractor shall field-verify all Dimensions, Elevations and Conditions shown prior to fabrication/construction. This information shall be incorporated into the shop drawings prior to submitting to Architect/Engineer for review.
4. If existing conditions differ from the conditions shown in the drawings or assumed for designing, the engineer shall be notified of all discrepancies allowed to examine the as-built condition, and modify the design as required.
5. If conditions are encountered during construction which require the removal of existing load-bearing construction not shown on the structural drawings, the Structural Engineer shall be notified, allowed to examine the as-built condition and provided the opportunity to modify the design as required, prior to removal.
6. Except where new permanent loads or components have been added as shown in the structural drawings, the existing structure has not been analyzed by Live Oak Engineering.

FOUNDATIONS

1. The General Contractor shall employ a qualified Geotechnical Engineer to perform a soils investigation in accordance with the referenced International Building Code (Sections 1803.2 and 1803.6). The Geotechnical Engineer shall provide compacted fill requirements for the building pad and shall review all subgrade and foundation bearing surfaces to ensure their compliance with the slab modulus and minimum bearing pressures noted, limiting total settlement of the structure to 1-inch and settlement to 1/2-inch.
2. Assumed Soil Bearing Pressures
   - Footings on natural soils or compacted structural fill are designed for a minimum soil bearing pressure of 2,000 psf.
   - If the soil at the footing bearing elevations shown is of questionable bearing value, the Engineer or Architect shall be notified immediately.
3. Strip area of all gravel, surface vegetation, topsoil, and any debris. Remove all existing structures, foundations, and below grade site features. After stripping and making required cuts, exposed subgrade should be compacted. Over excavated and stabilize any soft or unstable areas discovered by proof rolling.
4. All foundation bearing surfaces shall be reviewed by the Geotechnical Engineer prior to placing concrete to ensure their compliance with the bearing pressures and subgrade requirements noted. All foundation bearing elevations are estimated and may be adjusted in the field by the geotechnical engineer as required.
5. If the soil at the bearing elevations shown is of questionable bearing value, the Structural Engineer of Record or Architect shall be notified immediately.
6. Where fill material is required over in-situ subgrade, scarify subgrade to a minimum depth of 9" and adjust moisture content to equal optimum moisture content. Compact scarified subgrade using the same requirements listed below for compacted structural fill
7. All fill material under structural shall comply with requirements stated in Geotechnical Report unless specifically noted otherwise. As a minimum, all fill material under structure shall be sandy clay or clayey sand exhibiting a liquid limit less than 35. Fill material shall be placed in loose lifts not to exceed 8" and compacted to a density of not less than 95% of Modified Proctor Maximum Dry Density (ASTM D-1557) at or slightly wet of optimum moisture content. In place moisture and density of each lift shall be determined by in-situ field tests prior to placing additional fill.
8. After footing excavations are completed and before placing concrete, the excavated areas shall be inspected and approved by the Owner's selected independent testing laboratory.
9. Provide a minimum of a 4" clean free draining granular sub-base fill below all interior slabs-on-grade unless noted or detailed otherwise. Sub-base shall meet gradation requirements of ASTM C-33 size No. 67 unless specifically noted otherwise.
10. A 10-mil polyethylene film vapor barrier meeting the requirements in the specifications, shall be placed below all interior slabs on grade.

CAST-IN-PLACE CONCRETE

1. Structural Concrete
   - Cast-In-Place Concrete
   - Concrete Reinforcing - Bar (Typical) — ASTM A615, GR 60
   - Concrete Reinforcing - Bar (Weldable) — ASTM A706, GR 60
   - Concrete Reinforcing - Welded Wire Fabric — ASTM A185, (Plain); ASTM A497, (Deformed)
   - Cement — ASTM C150
   - Aggregate — ASTM C33, ASTM C330

Concrete Mix Criteria

Class Use	Category F S W C	f'c, PSI	WT, PCF	AGG, IN	AE, %
I. FTG/FDN/PC	0 1 1 1	3500	145	1"	NA
II. Interior Slab	0 1 1 1	4000	145	¾"	NA
III. Exterior Slab	1 1 1 2	4000	145	¾"	6 ±1

- A concrete mix design for every mix design noted in the Contract Documents shall be submitted for each class in accordance with the procedure outlined in ACI 301, Standard Specification For Structural Concrete. Documentation submitted in the mix design shall include: mix design recipe, cementitious material data sheets, aggregate gradation, cylinder brake data, and admixture data sheets.
- On the use of admixtures and limits on the water/cementitious materials ratio for durability, reference the project manual/specifications, ACI 318, and IBC requirements for structural concrete.

2. Arrangement and bending of reinforcing steel shall be in accordance with ACI Detailing Manual, latest edition.
3. Reinforcing steel shall be new and all bars shall be deformed.
4. Contractor shall provide reinforcing shop drawings which adequately depict the reinforcing bar sizes and placement. Written description of reinforcement without adequate sections, elevations and details is not acceptable.
5. Unless noted otherwise, bar laps shall be Class B tension laps and shall be lapped with minimum lengths as shown in tables below, where splices are required in reinforcing. Shorter laps may be acceptable if specific locations of alternate laps are shown on the reinforcement placement drawings and calculations are submitted by a Registered Professional Engineer, licensed to practice in the state in which the project is located, justifying the alternate lap lengths.
6. Provide suitable wire spacers, chairs, ties, etc. for supporting reinforcing steel in the proper position while placing concrete. Do not "wet stick" dowels.
7. Minimum lap and embedment of Welded Wire Fabric (WWF) to be one cross wire spacing plus 2".
8. Before placing concrete, clean reinforcement for foreign particles or coatings. Place, support, and secure reinforcement against displacement. For cast-in-place concrete, provide cover as shown below, unless noted otherwise on drawings, and as specified in ACI 318, building code requirements for structural concrete.

Application/condition	Required cover, Inches
Cast against and permanently exposed to earth	3"
Exposed to earth or weather:	
No.6 through No.19 bars	2"
No.5 bar, W31 or D31 wire, and smaller	1 1/2"
Not exposed to weather or in contact with ground:	
Slab, walls, joints:	
No. 14 and No. 18 bars	1 1/2"
No. 11 bar and smaller	3/4"
Beam, columns:	
Primary reinforcements, ties, stirrups, spirals	1 1/2"
Shells, folded plate members:	
No.6 bar and larger	3/4"
No.5 bar, W31 or D31 wire, and smaller	1/2"

9. Locations and sizes of openings, sleeves, etc. required for other trades must be verified by these trades before placing concrete.
10. All slots, sleeves, trenches, and other embedded items shall be set and secured against movement before the concrete is placed. See Architectural, Electrical, Mechanical, Plumbing, and Vendor drawings for sizes and locations. Coordinate locations, spacing, and sizes with the Structural Engineer of Record prior to pouring concrete.
11. Conduits and pipes embedded in concrete slabs may be no larger than ⅓ of the slab thickness (based on the maximum outside diameter) and shall have a center-to-center spacing no less than three (3) conduit diameters. Regardless of diameter, the minimum clear spacing between conduits or reinforcing shall be one (1) inch.
12. No more than four conduits may be placed adjacent to each other without prior approval in writing from the Structural Engineer of Record.
13. No aluminum conduits, devices, or fixtures may be embedded into the concrete so that the aluminum is in direct contact with the concrete.
14. For slabs-on-grade, provide saw-cut control joints see the foundation plan and typical details for control joint layout and details.
15. Saw-cuts shall be made as soon as the concrete can support the saw without damaging the surface (eight (8) hours max from the start of the concrete pour).
16. Reinforcing steel shown in sections and detail are a schematic indication that reinforcing exists. See schedules, section notes and General Notes for actual reinforcing required.
17. Pedestal, Column and Wall Vertical Reinforcing: Dowel to foundation with hooked bars of same size and spacing as vertical reinforcing.
18. Submit written reports of each proposed mix design for class of concrete with concrete cylinder test results at least 15 days prior to start of work.
19. All concrete that will be exposed to the weather shall have air entrainment.
20. All structural concrete exposed to view to be smooth formed finished with ¾" chamfers at all exposed edges.

ACI lap splice length (Inches)

Bar Size	F'C = 3000 PSI				F'C = 3500 PSI				F'C = 4000 PSI			
	Top Bars		Other Bars		Top Bars		Other Bars		Top Bars		Other Bars	
	Case 1	Case 2	Case 1	Case 2	Case 1	Case 2	Case 1	Case 2	Case 1	Case 2	Case 1	Case 2
#3	28	42	22	32	26	39	21	30	24	36	19	28
#4	37	56	29	43	35	52	27	40	32	48	25	37
#5	47	70	36	54	44	65	34	51	40	60	31	47
#6	56	84	43	64	52	78	40	60	48	72	37	56
#7	81	122	63	19	76	114	59	88	70	106	54	81
#8	93	139	72	107	87	130	67	100	80	121	32	93
#9	105	157	81	121	89	147	76	113	91	136	70	105
#10	118	177	91	136	110	165	85	127	102	153	79	118
#11	131	196	101	151	122	183	94	141	113	170	87	131

NOTES:
1. Tabulated values are based on grade 60 bars and normal weight concrete.
2. Cases 1 and 2, which depend on the type of structural element, concrete cover, and the center-to-center spacing of the bars, are defined as:

Beams or columns :
Case 1: Cover at least 1.0 db and C.C. spacing of at least 2.0 db.
Case 2: Cover less than 1.0 db and C.C. spacing less than 2.0 db.

All others :
Case 1: Cover at least 1.0 db and C.C. spacing of at least 3.0 db.
Case 2: Cover less than 1.0 db and C.C. spacing less than 3.0 db.

3. Top bars are horizontal beam and slab bars with more than 12" of concrete below the bars.
4. For lightweight aggregate concrete, multiply the tabulated values by 1.3.
5. For epoxy-coated bars, multiply the tabulated values by one of the following factors:

Concrete cover and spacing	Top bars	Other bars Cover
Cover < 3.0 DB or C.C. spacing < 7.0 DB	1.7/1.3 = 1.31	1.50
Cover > 3.0 DB or C.C. spacing > 7.0 DB	1.20	1.20

6. Bar development length = lap spliced length/ 1.3.
7. Wire mesh lap:
   Lap all wire mesh cross wires one cross wire spacing plus 2", typical.

POST-INSTALLED ANCHORS

1. Post installed anchors shall comply with ACI-318 Chapter 17..
2. Manufacturers include but not limited to Hilti and Simpson.
3. Care shall be taken in placing Post Installed Anchors to avoid conflicts with existing rebar.
4. Holes shall be drilled and cleaned in accordance with the Manufacturer's written instructions. Substitutions requests, for products other than those shown, shall be submitted by the Contractor along with the prepared documentation demonstrating equal substitution that the product is capable of achieving equivalent performance values (minimum) of the specified product using the appropriate design procedure and/or standard(s) as required by the building code.
5. The Contractor shall follow all Manufacturer's installation guidelines, specifications, and recommendations.
6. A representative of the Post-Installed Anchor Manufacturer shall be present for the first installation for each type of anchor used to demonstrate and instruct to the Contractor installation crew and personnel the proper method of installation. Should the Contractor change the installation crew or individuals installing the anchor, the Manufacturer's representative shall be notified by the Contractor to return and provide instruction to the new installer(s).
7. Concrete Anchors:
   A. Mechanical Anchors for use in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ACI-355.2 and ICC-ES AC193.
   B. Adhesive anchors for use in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ICC-ES AC308.
8. Masonry Anchors:
   A. Anchorage to Solid-Grouted Concrete Masonry:
      a. Mechanical and concrete screw anchors for use in solid-grouted concrete masonry shall have been tested and qualified for use in accordance with ICC-ES AC01 or AC106, respectively.
      b. Adhesive anchors for use in solid-grouted concrete masonry shall have been tested and qualified for use in accordance with ICC-ES AC58 or AC60, respectively.
   B. Anchorage to hollow concrete masonry/unreinforced clay brick masonry:
      a. Screws for use in hollow concrete masonry shall have been tested and qualified in accordance with ICC-ES AC106.
      b. Adhesive anchors with screen tubes shall be tested and qualified in accordance with ICC-ES AC58 or AC60, as appropriate. The appropriate screen tube shall be used as recommended by the adhesive manufacturer.

STRUCTURAL STEEL

1. Structural Steel
   - Wide Flange — ASTM A992 or ASTM A572
   - Channels, Angles and Plates — ASTM A572
   - Non-Shrink Grout Under Plates (f'c=8000 PSI) — ASTM C1107, GR A
   - Rect. Hollow Structural Sections HSS, (Fy = 50 KSI) — ASTM A500, GR C
   - Round. Hollow Structural Sections HSS, (Fy = 46 KSI) — ASTM A500, GR C
   - Pipe, (Fy = 35 KSI) — ASTM A53, GR B
   - Bolts and Fasteners (U.N.O.) — ASTM A325
   - Structural/Anchor Rods — ASTM F1554, Grade 55 (Weldable)
   - Headed Shear Studs — ASTM A108, AWS D1.1, Type B
2. Steel frames are non-self-supporting and column anchor rods are designed for a completed condition only. Metal roof deck, beam-to-column moment connections, portal frames, and diagonal braces are required to provide lateral stability for the frame and building. This includes resistance to wind and seismic forces during and after construction. The Contractor shall provide all temporary bracing required to maintain stability until the lateral force resisting system for the building is complete.
3. The General Contractor shall be responsible for including the costs for all miscellaneous steel in their bid regardless of whether or not those items are indicated on the structural drawings. These costs shall include, but are not limited to, miscellaneous steel items shown on Architectural, Civil, Mechanical, Plumbing, and Electrical drawings.
4. Steel erector shall provide the necessary bracing during erection and until all steel is plumb and secure.
5. Bearing ends of all columns shall be square cut.
6. Steel to steel connections shall be designed as follows:
   A. The fabricator shall be responsible for the design of all connections that are Not Designed by the EOR and fully detailed on the contract documents. Shop drawings depicting the configurations and fabrication details, along with calculations (as noted in the submittals notes section) shall be submitted to the EOR for review and approval.
   B. All connection details shown in the typical details are considered conceptual unless completely detailed. The fabricator can use alternate connection configurations with prior approval by the EOR.
   C. Required reactions for connection design are shown on plan, in elevations, or in typical details. Loads provided are in Load and Resistance Factor Design (LRFD) and shall be designed using LRFD design procedures.
   D. Where connections are subjected to eccentricity, the eccentricity shall be taken into account when designing the connection.
   E. Axial loads and moments should be considered to be reversible and act concurrently with noted shear loads.
7. Unless detailed otherwise, all shop connections shall be welded. Unless detailed otherwise, all field connections shall be made using 3/4"Ø, and 1"Ø where indicated, ASTM A325-N (or ASTM F1852) high strength bolts ('N' indicates bearing type with threads included in shear plane). Washers shall be installed under nuts of fasteners when required by the specifications of structural joints.
8. Where field and shop welds are indicated on the drawings, they shall be the size and type noted. All welding of structural steel shall be done in accordance with the latest edition of AWS D1.1 corresponding to the AISC specification used and all welds including field welds shall be made by certified welders using E70XX electrodes.
9. High strength bolts (3/4"Ø and 1"Ø - A325 or F1852) shall be tightened to provide, when all bolts in the joint are tight, a minimum bolt tension of 28,000 lbs for 3/4"Ø bolts and 51,000 lbs for 1"Ø bolts. One of the following methods shall be used.
   A. Power wrenches adjusted to stall or cut-out at the correct tension.
   B. Manual torque wrenches with torque indication set to give the correct tension.
   C. Manual wrenches using the "turn-of-nut" method of assuring the correct bolt tension.
10. Unless specifically noted otherwise, all high-strength bolts (A325, F1852, and A490) shall be pre-tensioned to meet slip-critical requirements even if the joint is designed as a "Snug-Tight" bearing connection. All joints shall be designed to be bearing type connections unless noted otherwise.
11. All steel members exposed to weather shall be galvanized or painted with TNEMEC Epoxy System or similar system meeting the requirements for painting structural steel in the project specifications. All other steel members shall be furnished with a shop coat of TNEMEC red or gray oxide primer or similar system meeting the requirements for painting structural steel in the project specifications. All primers shall be compatible with top coatings specified.
12. All steel members that are to receive spray or trowel applied, cementitious based, fire-resisting coatings shall be furnished without prime coating unless otherwise noted.
13. All hangers, clips, inserts, etc. suspended from the floor structure or the roof structure (Beams, Joists, and Deck) shall be installed prior to the application of the sprayed-on fireproofing. Patch any fireproofing damaged after the initial application.
14. All exterior exposed steel shall be hot-dipped galvanized, including masonry support lintels, unless noted otherwise.
15. Field cutting, drilling, or other modification of structural steel components is not permitted without written approval of the Structural Engineer of Record. Where beam penetrations cannot be avoided or where cutting is required, the Contractor shall submit, to the Structural Engineer of Record, all pertinent information including penetration shape, size, location, and method of cutting the openings.

STEEL DECK

1. The Contractor shall follow all recommended practices in the SDI manual.
2. Deck shall be galvanized steel deck unless noted otherwise on the drawings.
3. Where steel deck is part of a rated assembly, supply all deck and components, which comply with requirements of Underwriters Laboratories (UL) for each type of assembly specified, reference plans and specifications. Where deck is to receive spray fireproofing, finishes shall be compatible with fireproofing material and comply with UL assembly requirements. Before the fireproofing material is applied, the deck surface to be treated shall be free of rust, scale, oil, or other contaminants or elements which will impair bond.
4. The deck shall be fastened to supporting steel as shown on the drawings.
5. Alternate fastening options using mechanical fasteners, power-actuated, or screws may be considered, if submitted by the Contractor. Alternate systems and documentation certifying that the proposed system provides at least the same uplift and diaphragm shear resistance as the system and pattern specified must be submitted to the Structural Engineer of Record prior to use.
6. Provide a 2" minimum bearing and a 4" lap at the splice point of all pieces of deck.
7. Where possible, all decking shall be 3-span continuous, minimum. Decking specified on this project assumes a 3-span condition unless noted otherwise. The Contractor shall provide heavier gauge deck, as required, for one or two span conditions to meet equivalent load capacity of the specified deck under a 3-span condition.
8. Steel roof deck shall not be used to support load from plumbing VAC ducts, light fixtures, architectural elements, or equipment of any kind unless specifically noted.
9. Hanging any loads directly from steel roof deck shall be avoided whenever possible. Nevertheless, normal suspended acoustical ceilings with a total weight per wire not exceeding 50 lbs may be hung from the steel roof deck in cases where hanging loads from the deck cannot be avoided. If possible, the attachment should be staggered to further distribute the load. If load is directly supported by the deck, tabs or other build-in devices should be provided for hanging referenced loads.
10. Supply 8" wide, minimum, plates matching deck gauge or heavier for all ridge, valley, and change in deck direction locations, which do not fall over a supporting member at least 4" wide.

LIGHT GAUGE METAL STUDS & MISCELLANEOUS FRAMING

1. Light gauge framing:
   - Non-structural: — ASTM A653, SS Grade 33
   - Structural (non-load bearing): — ASTM A653, SS Grade 33
   - Structural (load bearing): — ASTM A653, SS Grade 50
2. Minimum member thicknesses.
   - Non-load bearing interior walls: — 25 gauge (18 mil)
   - Non-load bearing exterior walls: — 20 gauge (33 mil)
   - Load bearing interior and exterior walls: — 18 gauge (43 mil)
3. All light gauge metal studs shall be galvanized.
4. All load bearing walls shall have horizontal bridging spaced at intervals not exceeding 4'-0" maximum.
5. Install framing using wall bracing, connection details, and door/window headers and jambs as recommended by the light gauge stud manufacturer for load bearing and/or curtain wall studs.
6. For any member or connection not specified on the structural drawings, shop drawings and calculations shall be submitted bearing the seal of a professional engineering licensed in the state where the project is located. This engineer must be employed full-time by a light gauge metal supplier or by an engineering firm specializing in light gauge work with a minimum of 3 years of experience or provide evidence previous work experience in light gauge metal design.
7. Light gauge shop drawings shall consist of plans, elevations, and connection details at all load bearing, partition, and curtain wall studs, headers, joists, and bracing. The submittal from the light gauge contractor must contain the following items:
   - Connection of studs and track to supporting structures
   - Connection of stud to track
   - Number of jamb studs at each opening
   - Connection of built-up studs
   - Construction of headers, including fastener spacing
   - Connections of headers to jambs
   - Bridging description/connection of bridging to studs
   - Description of shear wall blocking
   - Lap splice connections
8. Fabrication should not begin until the shop drawings and calculations have been reviewed and approved.
9. All load bearing walls shall have horizontal bridging spaced at intervals not exceeding 4'-0" maximum.
10. Bottom track and standard top tracks shall match the wall stud gauge. Top deflection tracks, where required, shall be one gauge thickness heavier than the wall studs.
11. All load bearing & exterior stud walls shall meet the following minimum requirements (not to be treated as final design):
    - Flange width 1 ⅝"
    - Flange return ½"
12. At locations where metal studs are shown notched around bottom flanges of beam, light gage stud supplier shall devise a strengthening detail to assure that the stud works with the notch.
13. See plans and typical details for shear wall, floor, and roof sheathing size and attachment pattern.
14. Refer to architectural drawings for all interior, non-load bearing stud wall construction.

SPECIAL INSPECTION NOTES

1. All Special Inspections shall be performed in conformance with the referenced International Building Code and its referenced specifications.
2. The Special Inspector shall be employed by the owner or the owner's agent and not by the Contractor or Subcontractor whose work is to be inspected or tested. any conflict of interest must be disclosed to the Building Official prior to completing work.
3. The Special Inspector shall be qualified per the international building code and shall be educated in the tasks required to conduct, supervise, and evaluate the inspections. The Special Inspector must also be objective, competent, and have access to the appropriate testing equipment which shall be maintained and periodically calibrated. The qualifications of the Special Inspector may be subject to the approval of the Building Inspector.
4. Special Inspector Agents:
   A. ATA: Approved Testing Agency
   B. GEOR: Geotechnical Engineer of Record (see General Notes)
   C. SEOR: Structural Engineer of Record (Live Oak Engineering)
5. The Special Inspections shall be performed in addition to any observations performed by the Engineer of Record and any inspections performed by the Building Official
6. The Special Inspector shall maintain records and provide the queried documentation as prescribed in the referenced International Building Code, including the submittal of reports to the building official and the designer of record.
7. The Contractor shall coordinate with construction schedule with the Special Inspector to allow for Special Inspections.
8. Construction which requires Special Inspections shall be maintained in such a state to allow access for the Special Inspector until the required inspections or tests have been performed.
9. Any deviations found during the Special Inspection process shall be immediately brought to the attention of the designer of record. All deviations must be addressed prior to the completion of the work.
10. Inspection Frequency:
    A. Continuous - Special Inspections by the Special Inspector who is present when and where the work to be inspected is performed
    B. Periodic - Special Inspections by the Special Inspector who is intermittently present where the work to be inspected has been or is being performed.
    C. Observe - Observe items on a random basis. Operations need not be delayed pending these inspections.
    D. Perform. Perform tasks for each joint, member, and connection.

WDD ARCHITECTS

ARKANSAS REGISTERED PROFESSIONAL ENGINEER PATRICK M. PLOURDE No.10449
06-09-2026

LIVE OAK ENGINEERING
2509 7th AVENUE SOUTH
BIRMINGHAM, AL 35233
205.637.3115
AR COA#: 1672
LOE PROJECT #: 294-6

CERTIFICATE OF AUTHORIZATION — LIVE OAK ENGINEERING, INC. No. 1672 — ARKANSAS ENGINEER

PROJECT TITLE
ST JOHNS CENTER
BYRNE HALL RENOVATION
ENTER ADDRESS HERE

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GENERAL NOTES

REVISIONS

NO.	DATE	DESCRIPTION

25-043
JOB. NO.
06-09-2026
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100% CONSTRUCTION DOCUMENTS

SHEET
S0.0

FLAT ROOF PRESSURES (psf)

Area	Zone 2	Zone 3
10.0	-34.29	-46.74
20.0	-32.09	-42.33
50.0	-29.17	-36.5
100.0	-26.97	-32.09
200.0	-24.76	-27.68
500.0	-21.85	-21.85

PARAPET WIND PRESSURES (psf)

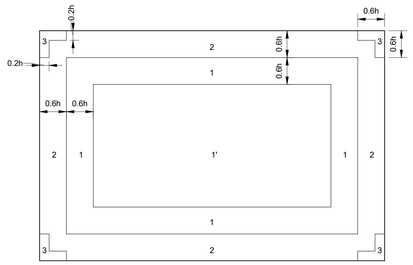
	Zone 4p		Zone 5p	
Area	Win	Lee	Win	Lee
10.0	15.22	-29.87	15.22	-42.55
20.0	14.54	-27.62	14.54	-38.05
50.0	13.65	-24.65	13.65	-32.12
100.0	12.98	-22.41	12.98	-27.62
200.0	12.3	-20.16	12.3	-23.13
500.0	11.41	-17.19	11.41	-17.19

WALL WIND PRESSURES (psf)

	Zone 4		Zone 5	
Area	Win	Lee	Win	Lee
10.0	14.93	-16.18	14.93	-19.91
20.0	14.27	-15.52	14.27	-18.59
50.0	13.4	-14.64	13.4	-16.84
100.0	12.74	-13.98	12.74	-15.52
200.0	12.08	-13.32	12.08	-14.19
500.0	11.2	-12.45	11.2	-12.45



TYPICAL C & C WALL DIAGRAM



TYPICAL C & C FLAT ROOF DIAGRAM

		VERIFICATION AND INSPECTION	REFERENCED STANDARDS	IBC REFERENCE	SERVICES	EXTENT
1.		**IBC 2018 SECTION 1704.2.5 - INSPECTION OF FABRICATORS**				
	1.	VERIFY FABRICATION/QUALITY CONTROL PROCEDURES.			IN-PLANT	ONCE
2.		**IBC 2018 SECTION 1705.2.1 - SPECIAL INSPECTION FOR STRUCTURAL STEEL**				
	1.	INSPECTION TASKS PRIOR TO WELDING	AISC 360: TABLE N5.4-1			
		A. WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS			IN-FIELD	PERIODIC
		B. WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE			IN-FIELD	CONTINUOUS
		C. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE			IN-FIELD	CONTINUOUS
		D. MATERIAL IDENTIFICATION (TYPE/GRADE)			IN-FIELD	PERIODIC
		E. WELDER IDENTIFICATION SYSTEM			IN-FIELD	PERIODIC
		F. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)				
		a. JOINT PREPARATION			IN-FIELD	PERIODIC
		b. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)			IN-FIELD	PERIODIC
		c. CLEANLINESS (CONDITION OF STEEL SURFACES)			IN-FIELD	PERIODIC
		d. TACKING (TACK WELD QUALITY AND LOCATION)			IN-FIELD	PERIODIC
		e. BACKING TYPE AND FIT (IF APPLICABLE)			IN-FIELD	PERIODIC
		G. FIT-UP OF CJP WELDS TO HSS T-, Y-, AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY)				
		a. JOINT PREPARATION			IN-FIELD	PERIODIC
		b. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)			IN-FIELD	PERIODIC
		c. CLEANLINESS (CONDITION OF STEEL SURFACES)			IN-FIELD	PERIODIC
		d. TACKING (TACK WELD QUALITY AND LOCATION)			IN-FIELD	PERIODIC
		e. BACKING TYPE AND FIT (IF APPLICABLE)			IN-FIELD	PERIODIC
		H. CONFIGURATION AND FINISH OF ACCESS HOLES			IN-FIELD	PERIODIC
		I. FIT-UP OF FILLET WELDS				
		a. DIMENSIONS (ALIGNMENT, GAPS AT ROOT)			IN-FIELD	PERIODIC
		b. CLEANLINESS (CONDITION OF STEEL SURFACES)			IN-FIELD	PERIODIC
		c. TACKING (TACK WELD QUALITY AND LOCATION)			IN-FIELD	PERIODIC
		J. CHECK WELDING EQUIPMENT			IN-FIELD	PERIODIC
	2.	INSPECTION TASKS DURING WELDING	AISC 360: TABLE 5.4-2			
		A. USE OF QUALIFIED WELDERS			IN-FIELD	PERIODIC
		B. CONTROL AND HANDLING OF WELDING CONSUMABLES				
		a. PACKAGING			IN-FIELD	PERIODIC
		b. EXPOSURE CONTROL			IN-FIELD	PERIODIC
		C. NO WELDING OVER CRACKED TACK WELDS			IN-FIELD	PERIODIC
		D. ENVIRONMENTAL CONDITIONS				
		a. WIND SPEED WITHIN LIMITS			IN-FIELD	PERIODIC
		b. PRECIPITATION AND TEMPERATURE			IN-FIELD	PERIODIC
		E. WPS FOLLOWED				
		a. SETTINGS ON WELDING EQUIPMENT			IN-FIELD	PERIODIC
		b. TRAVEL SPEED			IN-FIELD	PERIODIC
		c. SELECTED WELDING MATERIALS			IN-FIELD	PERIODIC
		d. SHIELDING GAS TYPE/FLOW RATE			IN-FIELD	PERIODIC
		e. PREHEAT APPLIED			IN-FIELD	PERIODIC
		f. INTERPASS TEMPERATURE MAINTAINED (MIN/MAX)			IN-FIELD	PERIODIC
		g. PROPER POSITION (F, V, H, OH)			IN-FIELD	PERIODIC
		F. WELDING TECHNIQUES				
		a. INTERPASS AND FINAL CLEANING			IN-FIELD	PERIODIC
		b. EACH PASS WITH PROFILE LIMITATIONS			IN-FIELD	PERIODIC
		c. EACH PASS MEETS QUALITY REQUIREMENTS			IN-FIELD	PERIODIC
		G. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS			IN-FIELD	CONTINUOUS
	3.	INSPECTION TASKS AFTER WELDING	AISC 360: TABLE N5.4-3			
		A. WELDS CLEANED			IN-FIELD	PERIODIC
		B. SIZE, LENGTH, AND LOCATION OF WELDS			IN-FIELD	CONTINUOUS
		C. WELDS MEET VISUAL ACCEPTANCE CRITERIA				
		a. CRACK PROHIBITION			IN-FIELD	CONTINUOUS
		b. WELD/BASE-METAL FUSION			IN-FIELD	CONTINUOUS
		c. CRATER CROSS SECTION			IN-FIELD	CONTINUOUS
		d. WELD PROFILES			IN-FIELD	CONTINUOUS
		e. WELD SIZE			IN-FIELD	CONTINUOUS
		f. UNDERCUT			IN-FIELD	CONTINUOUS
		g. POROSITY			IN-FIELD	CONTINUOUS
		D. ARC STRIKES			IN-FIELD	CONTINUOUS
		E. K-AREA			IN-FIELD	CONTINUOUS
		F. WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES			IN-FIELD	CONTINUOUS
		G. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)			IN-FIELD	CONTINUOUS
		H. REPAIR ACTIVITIES			IN-FIELD	CONTINUOUS
		I. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER			IN-FIELD	CONTINUOUS
		J. NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE E.O.R.			IN-FIELD	PERIODIC

	4.	NONDESTRUCTIVE TESTING	AISC 360: N5.5			
		A. ULTRASONIC TESTING ON CJP (RISK CAT II)	AISC 360: N5.5b		IN-FIELD	PERIODIC
		B. ULTRASONIC TESTING ON CJP (RISK CAT III OR IV)	AISC 360: N5.5b		IN-FIELD	CONTINUOUS
		C. RADIOGRAPHIC OR ULTRASONIC INSPECTION OF WELDED JOINTS SUBJECT TO FATIGUE	AISC 360: N5.5c, APP 3, TABLE A3.1		IN-FIELD	CONTINUOUS
	5.	INSPECTION TASKS PRIOR TO BOLTING	AISC 360: TABLE N5.6-1			
		A. MANUFACTURE'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS			IN-FIELD	CONTINUOUS
		B. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS			IN-FIELD	PERIODIC
		C. CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH, IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)			IN-FIELD	PERIODIC
		D. CORRECT BOLTING PROCEDURES SELECTED FOR JOINT DETAIL			IN-FIELD	PERIODIC
		E. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS			IN-FIELD	PERIODIC
		F. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED			IN-FIELD	PERIODIC
		G. PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS			IN-FIELD	PERIODIC
	6.	INSPECTION TASKS DURING BOLTING	AISC 360: TABLE N5.6-2			
		A. FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED			IN-FIELD	PERIODIC
		B. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRE-TENSIONING OPERATION			IN-FIELD	PERIODIC
		C. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING			IN-FIELD	PERIODIC
		D. FASTENERS ARE PRE-TENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION , PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES			IN-FIELD	PERIODIC
	7.	INSPECTION TASKS AFTER BOLTING	AISC 360: TABLE N5.6-3			
		A. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS			IN-FIELD	CONTINUOUS
	8.	OTHER STEEL INSPECTIONS				
		A. INSPECT FABRICATED STEEL OR STEEL FRAMES TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS	AISC 360: SECTION N5.8		IN-FIELD	PERIODIC
		B. INSPECT ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS			IN-FIELD	PERIODIC
		C. REDUCED BEAM SEGMENT SECTION (RBS) REQUIREMENTS (IF APPLICABLE)	AISC 341: TABLE J8-1		IN-FIELD	PERIODIC
		a. CONTOUR AND FINISH			IN-FIELD	CONTINUOUS
		b. DIMENSIONAL TOLERANCES			IN-FIELD	CONTINUOUS
		c. PROTECTED ZONE-NO HOLES AND UNAPPROVED ATTACHMENTS MADE BY FABRICATOR OR ERECTOR AS APPLICABLE			IN-FIELD	CONTINUOUS
		D. INSPECTION OF PILING - H PILES	AISC 341: TABLE J10-1			
		a. PROTECTED ZONE-NO HOLES AND UNAPPROVED ATTACHMENTS MADE BY THE RESPONSIBLE CONTRACTOR, AS APPLICABLE			IN-FIELD	CONTINUOUS
	9.	STEEL ELEMENTS OF COMPOSITE CONSTRUCTION				
		A. INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT	AISC 341: TABLE J9-1			
		d. MATERIAL IDENTIFICATION OF REINFORCEMENT STEEL (TYPE/GRADE)			IN-FIELD	PERIODIC
		e. DETERMINATION OF CARBON EQUIVALENT FOR REINFORCING STEEL OTHER THAN ASTM A706			IN-FIELD	PERIODIC
		f. PROPER REINFORCING STEEL SIZE, SPACING AND ORIENTATION			IN-FIELD	PERIODIC
		g. REINFORCING STEEL HAS NOT BEEN REBENT IN THE FIELD			IN-FIELD	PERIODIC
		h. REINFORCING STEEL HAS BEEN TIED AND SUPPORTED AS REQUIRED			IN-FIELD	PERIODIC
		i. REQUIRED REINFORCING STEEL CLEARANCES HAVE BEEN PROVIDED			IN-FIELD	PERIODIC
		j. COMPOSITE MEMBER HAS REQUIRED SIZE			IN-FIELD	PERIODIC
		B. INSPECTION OF STEEL ELEMENTS OF COMPOSITE STRUCTURES DURING CONCRETE PLACEMENT	AISC 341: TABLE J9-2			
		a. CONCRETE: MATERIAL IDENTIFICATION (MIX DESIGN, COMPRESSIVE STRENGTH, MAXIMUM LARGE AGGREGATE SIZE, MAXIMUM SLUMP)			IN-FIELD	PERIODIC
		b. LIMITS ON WATER ADDED AT THE TRUCK OR PUMP			IN-FIELD	PERIODIC
		c. PROPER PLACEMENT TECHNIQUES TO LIMIT SEGREGATION			IN-FIELD	PERIODIC
		C. INSPECTION OF STEEL ELEMENTS OF COMPOSITE STRUCTURES AFTER CONCRETE PLACEMENT	AISC 341: TABLE J9-3			
		a. ACHIEVEMENT OF MINIMUM SPECIFIED CONCRETE COMPRESSIVE STRENGTH AT SPECIFIED AGE			IN-FIELD	PERIODIC
3.		**IBC 2018 TABLE 1705.3 - REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION**				
	1.	INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT	ACI 318: CH 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4	IN-FIELD	PERIODIC
	2.	REINFORCING STEEL	AWS D1.4 ACI 318 SECTION 26.6.4			
		A. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706			IN-FIELD	PERIODIC
		B. INSPECT SINGLE-PASS FILLET WELD, MAXIMUM 5/16"			IN-FIELD	CONTINUOUS
		C. INSPECT ALL OTHER WELDS.			IN-FIELD	CONTINUOUS
	3.	INSPECT ANCHOR CAST IN CONCRETE	ACI 318 17.8.2		IN-FIELD	PERIODIC
	4.	INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS	ACI 318: 17.8.2.4, 17.8.2		IN-FIELD	PERIODIC
		A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS			IN-FIELD	PERIODIC
		B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4a			IN-FIELD	PERIODIC
	5.	VERIFYING USE OF REQUIRED DESIGN MIX	ACI318: CH 19, 26.4.3,26.4.4	1904.1, 1904.2, 1908.2, 1908.3	IN-FIELD	PERIODIC
	6.	AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	ASTM C172, ASTM C31, ACI 318: 26.5, 26.12	1908.10	IN-FIELD	CONTINUOUS
	7.	INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	ACI 318: 26.5	1908.6, 1908.7, 1908.8	IN-FIELD	CONTINUOUS
	8.	VERIFY FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	ACI 318: 26.5.3 - 26.5.5	1908.9	IN-FIELD	PERIODIC
	9.	INSPECTION OF PRESTRESSED CONCRETE				
		A. APPLICATION OF PRESTRESSING FORCES	ACI 318: 26.10		IN-FIELD	CONTINUOUS
		B. GROUTING OF BONDED PRESTRESSING TENDONS			IN-FIELD	CONTINUOUS
	10	INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	ACI 318: 26.9		IN-FIELD	PERIODIC
	11	VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	ACI 318: 26.11.2		IN-FIELD	PERIODIC
	12	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSION OF THE CONCRETE MEMBER BEING FORMED	ACI 318: 26.1.2(b)		IN-FIELD	PERIODIC
4.		**IBC 2018 1705.5, 1705.10 & 1705.11 - REQUIRED VERIFICATION AND INSPECTION OF WOOD CONSTRUCTION**				
	1.	INSPECTION OF THE FABRICATION PROCESS OF WOOD STRUCTURAL ELEMENTS AND ASSEMBLIES		1704.2.5	IN-SHOP	PERIODIC
	2.	FOR HIGH LOAD DIAPHRAGMS, VERIFICATION OF GRADE AND THICKNESS OF STRUCTURAL PANEL SHEATHING			IN-FIELD	PERIODIC
	3.	FOR HIGH-LOAD DIAPHRAGMS, VERIFY NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES, NAIL OR STAPLE DIAMETER AND LENGTH, NUMBER OF FASTENER LINES, AND THE SPACING BETWEEN FASTENERS IN EACH LINE AND AT EDGE MARGINS AGREES WITH APPROVED CONSTRUCTION DOCUMENTS			IN-FIELD	PERIODIC
5.		**IBC 2018 TABLE 1705.6 - REQUIRED VERIFICATION AND INSPECTION OF SOILS**				
	1.	VERIFY MATERIALS BELOW SHALLOW FOUNDATION ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY			IN-FIELD	PERIODIC
	2.	VERIFY EXCAVATION ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL			IN-FIELD	PERIODIC
	3.	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS			IN-FIELD	PERIODIC
	4.	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL			IN-FIELD	CONTINUOUS
	5.	PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY			IN-FIELD	PERIODIC

WDD ARCHITECTS

ARKANSAS REGISTERED PROFESSIONAL ENGINEER PATRICIA M. PADGETT No. 10449
06-09-2026

PROJECT TITLE

ST JOHNS CENTER
BYRNE HALL RENOVATION
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CONTENTS

COMPONANTS AND CLADDING & SPECIAL INSPECTIONS

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25-043
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DATE

100% CONSTRUCTION DOCUMENTS

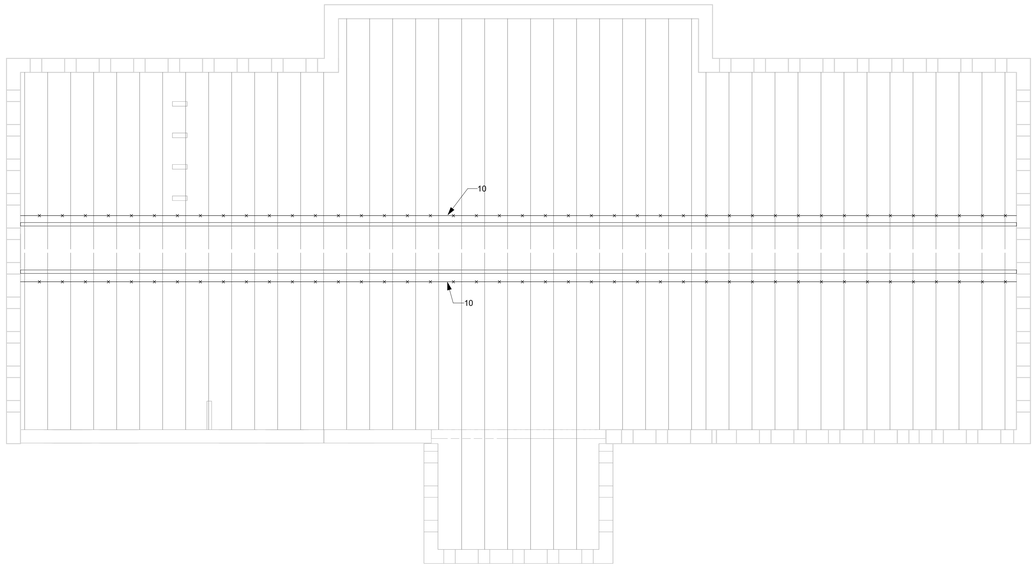
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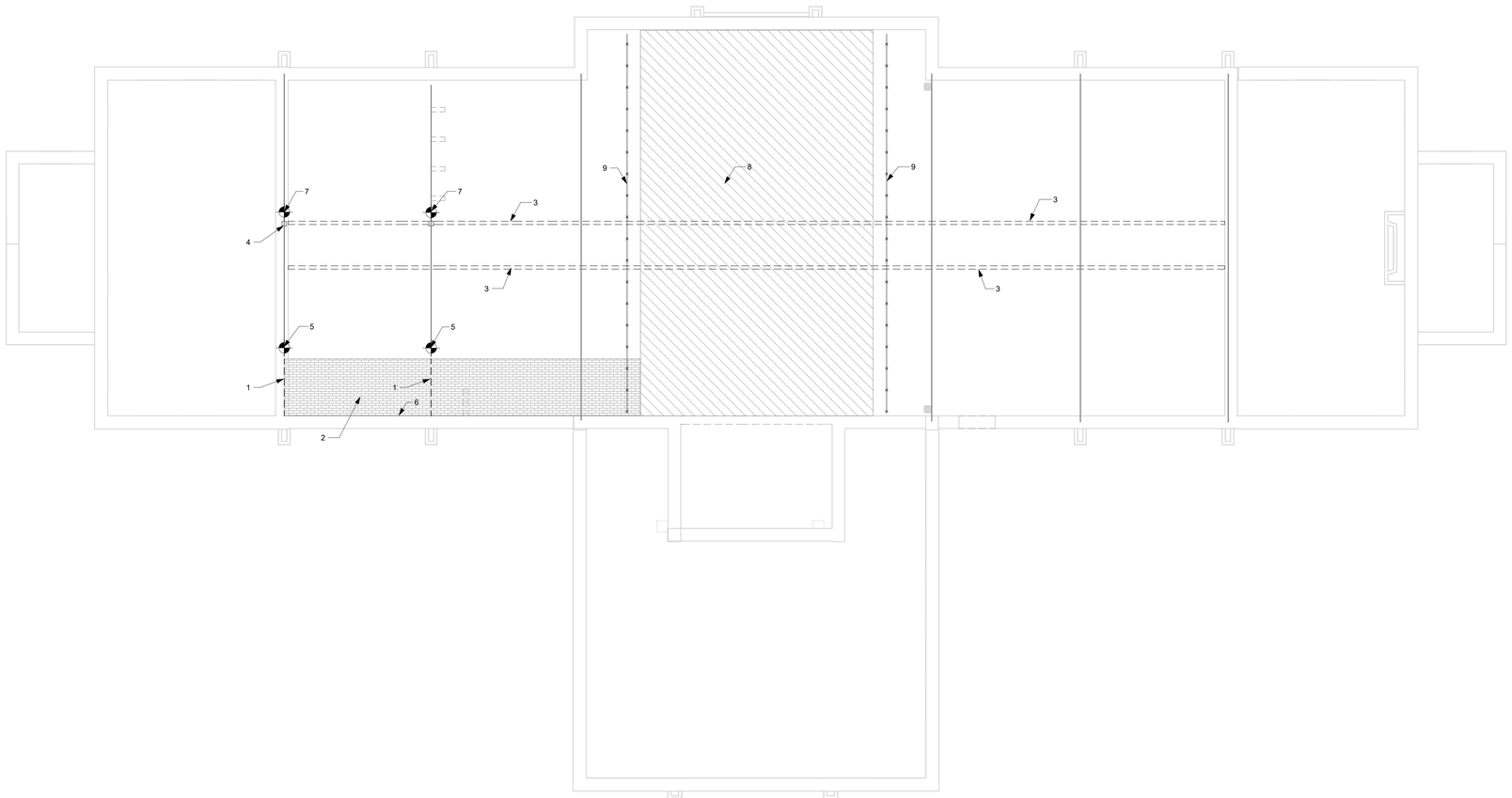
CERTIFICATE OF AUTHORIZATION LIVE OAK ENGINEERING, INC. No. 1672 ARKANSAS ENGINEER

LIVE OAK ENGINEERING
2509 7th AVENUE SOUTH
BIRMINGHAM, AL 35233
205.637.3115

AR COA#: 1672
LOE PROJECT #: 294-6



2 S1.0 ROOF DEMO PLAN
3/16" = 1'-0"



1 S1.0 SECOND FLOOR DEMO PLAN
3/16" = 1'-0"

DEMO NOTES

1. DEMO SECTION OF THE EXISTING BEAM.
2. DEMO EXISTING FLOOR BEAMS AND SHEATHING FOR STAIR FRAMING.
3. DEMO EXISTING WALL FRAMING.
4. DEMO THE EXISTING COLUMN BETWEEN 1ST AND SECOND FLOORS. LEAVE ENOUGH OF THE COLUMN BELOW THE SECOND FLOOR TO ALLOW FOR CONNECTION TO THE NEW DOUBLE CHANNEL BEAM. SEE SECTION 3 ON S3.6
5. PRIOR TO DEMO OF THE BEAM, CONTRACTOR TO INSTALL SHORING UNDER THE EXISTING BEAM DOWN TO THE BASEMENT SLAB. DO NOT TORCH BEAM TO DEMO.
6. PRIOR TO DEMO OF THE FLOOR BEAMS AND SHEATHING, CONTRACTOR TO INSTALL WALL LATERAL SUPPORT BEAMS SHOWN IN SECTION 4 ON S3.5. CONTRACTOR TO SHORT SECTIONS OF THE WALL AS DEEMED NECESSARY BY THE CONTRACTOR.
7. PRIOR TO DEMO OF THE COLUMN, CONTRACTOR TO SHORE THE EXISTING BEAM DOWN TO THE BASEMENT FLOOR.
8. IN THIS HATCHED REGION OF THE FLOOR, CONTRACTOR TO SURVEY THE FLOOR FRAMING PRIOR TO DEMO OR CONSTRUCTION. SEND MARKUP OF THE FLOOR FRAMING SIZES AND HOW IT IS SUPPORTED TO THE ENGINEER OF RECORD TO VERIFY IF THE EXISTING FRAMING IS ADAQUATE TO SUPPORT THE NEW LOADING. IF THE EXISTING FRAMING IS DEEMED BY THE ENGINEER OF RECORD TO BE INADAQUATE, THE FRAMING AND THE SHEATHING IS TO BE DEMO'D AND REPLACED AS SHOWN ON THE SECOND FLOOR FRAMING PLAN (S1.3).
9. IF THE HATCHED REGION IS REQUIRED TO BE DEMOLISHED, CONTRACTOR TO SHORE THE EXISTING FRAMING DOWN TO THE BASEMENT SLAB PRIOR TO DEMO WORK STARTING. CONTRACTOR TO SURVEY THE EXISTING FRAMING SIZE AND SPAN FOR THE EOR TO DESIGN A CONNECTION TO THE NEW BEARING WALL.
10. SHORE THE ROOF FRAMING DOWN TO THE BASEMENT SLAB PRIOR TO REMOVAL OF THE EXISTING BEARING WALLS.
11. ALL SHORING IS TO BE DESIGNED BY A LICENSED ENGINEER IN THE STATE THE PROJECT IS LOCATED IN. SIGNED AND SEALED SHORING PLANS AND CALCULATIONS ARE TO BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
12. ALL SHORING IS TO REACH THE BASEMENT SLAB UNLESS OTHERWISE DIRECTED BY THE SHORING ENGIEER (AND APPROVED BY THE ENGINEER OF RECORD).
13. ALL SHORING IS TO STAY IN PLACE TILL THE NEW SUPPORTS ARE CONSTRUCTED.
14. PRIOR TO CONSTRUCTION, CONTRACTOR TO REMOVE ALL EXISITNG FINISHING TO EXPOSE THE EXISTING STRUCTURE. A SURVEY OF THE EXISTING STRUCTURE AND EXISTING LOAD BEARING CONDITIONS IS TO BE PERFORMED AND PROVIDED TO THE STRUCTURAL ENGINEER OF RECORD (OR PERFORMED BY THE ENGINEER OF RECORD). ALTERATIONS TO THE STRUCTURAL FRAMING MAY BE REQUIRED BASED ON RESULTS OF THE SURVEY.
15. THE CONTRACTOR SHALL VERIFY THE COMPETENCY OF THE EXISTING BRICK WALLS AT ALL NEW BEARING CONDITIONS AND CONNECTION POINTS. CONTACT THE STRUCTURAL ENGINEER OF RECORD IF BRICK IS DEEMED TO BE INSUFFICIENT FOR THE NEW CONNECTION.

CERTIFICATE OF AUTHORIZATION
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ARKANSAS ENGINEER

LIVE OAK ENGINEERING
2509 7th AVENUE SOUTH
BIRMINGHAM, AL 35233
205.637.3115

AR COA#: 1672
LOE PROJECT #: 294-6

WDD ARCHITECTS

ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 10449
PATRICIA M. PAUDE
06-09-2026

PROJECT TITLE
ST JOHNS CENTER
BYRNE HALL RENOVATION
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CONTENTS
DEMO PLANS AND NOTES

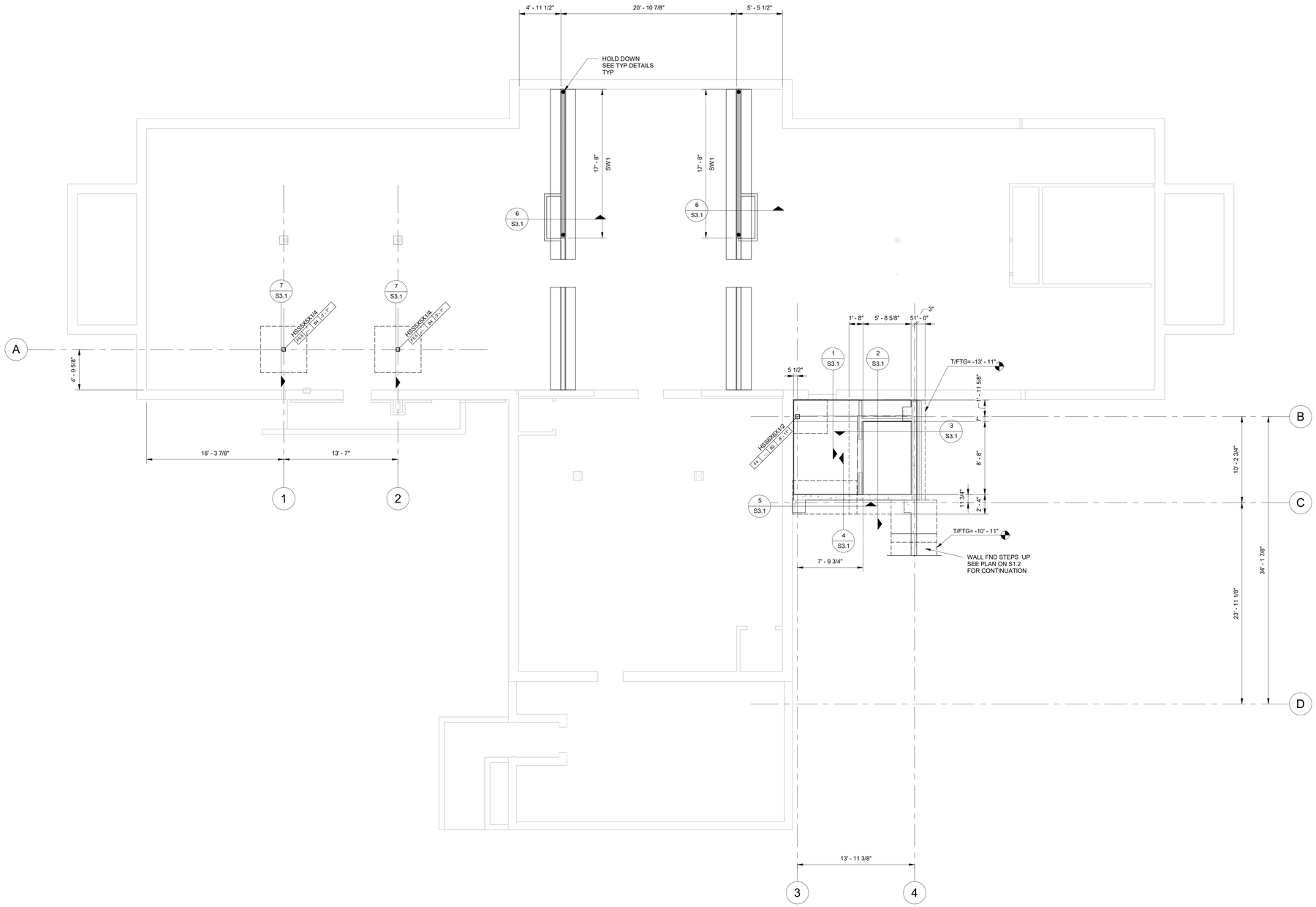
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06-09-2026
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S1.0



N 1 S1.1 BASEMENT AND FOUNDATION PLAN

3/16" = 1'-0"

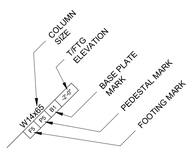
FOUNDATION PLAN NOTES:

1. FINISH FLOOR (TOP OF SLAB) ELEVATION -8'-11", UNLESS NOTED OTHERWISE
2. TOP OF FOOTING ELEVATION, SEE PLAN.
3. SLAB ON GRADE CONSTRUCTION: 4-INCH THICK CONCRETE SLAB ON COMPACTED STONE FILL(SEE GEOTECH REPORT.) PROVIDE 6x6-W1.4xW1.4 WWF. SECURELY POSITION 1" FROM TOP OF SLAB AND SUPPORT w/ SLAB BOLSTERS OR CONCRETE BLOCK.
4. APPROXIMATE LOCATIONS OF FOOTING STEPS ARE SHOWN ON PLAN. CONTRACTOR TO COORDINATE STEP LOCATIONS WITH THE LATEST CIVIL, PLUMBING, AND UTILITY DRAWINGS. SEE TYPICAL DETAILS FOR FOOTING STEP REQUIREMENTS.
5. PROVIDE CONTROL JOINTS AT 15'-0" MAXIMUM SPACING. SEE TYPICAL DETAILS.
6. CONTRACTOR TO VERIFY DIMENSIONS OF THE EXISTING BUILDING. COORDINATE DIMENSIONS THAT WILL VARY FROM WHAT IS SHOWN ON PLAN WITH THE ARCHITECT AND STRUCTURAL ENGINEER.
7. THE ELEVATOR SHAFT IS -5'-0" BELOW NOTED BASEMENT FINISH FLOOR ELEVATION NOTED ON THIS PLAN. CONTRACTOR TO VERIFY THE EXISTING WALL FOUNDATION SIZE AND ELEVATION PRIOR TO CONSTRUCTION OF THE STEM WALL. DO NOT UNDERMINE THE EXISTING WALL DURING CONSTRUCTION. UNPINNING OF THE EXISTING WALL AND FOUNDATION MAY BE REQUIRED BASED ON DEPTH OF THE EXISTING FOOTING. SEE ESTIMATED LOADS ON THE EXISTING WALL IN THE SECTIONS.
8. CONTRACTOR TO REVIEW DEMO PLANS AND PROVIDE SHORING AS REQUIRED.
9. REFERENCE THE ARCHITECTURAL AND ELEVATOR SHOP DRAWINGS FOR ELEVATOR SUMP PIT SIZE AND LOCATION. FOR SUMP PIT REINFORCEMENT, SEE TYPICAL DETAILS.
10. LOCATIONS OF SHEAR WALLS ARE SHOWN ON PLAN WITH A GRAY HATCH. SEE TYPICAL DETAILS FOR SHEATHING AND NAIL PATTERNS.

● - ON PLAN DENOTES A SHEAR WALL HOLD DOWN. SEE TYPICAL DETAILS.

EXISTING CONDITIONS NOTES:

1. CONTRACTOR TO FIELD VERIFY EXISTING FRAMING LAYOUT PRIOR TO CONSTRUCTION. CONTACT LIVE OAK ENGINEERING PRIOR TO CONSTRUCTION IF EXISTING FRAMING DIFFERS FROM FRAMING SHOWN ON PLAN AND IN SECTION.
2. WHERE NOTED ON PLAN AND IN SECTION, CONTRACTOR TO MEASURE EXISTING FRAMING SIZES AND SEND TO LIVE OAK ENGINEERING FOR REVIEW. CONFIRMATION OF EXISTING FRAMING SIZES MAY RESULT IN CHANGES TO DETAILS.
3. CONTRACTOR TO REVIEW DEMO PLANS PRIOR TO CONSTRUCTION. SHORE EXISTING FRAMING AS NOTED ON DEMO PLANS PRIOR TO DEMO WORK. SEND SHORING PLANS AND CALCULATIONS TO LIVE OAK ENGINEERING FOR REVIEW AND APPROVAL.



COLUMN LABEL LEGEND

PAD FOOTING SCHEDULE		
MARK	FOOTING SIZE	REINFORCEMENT
F3	3' - 0"x3' - 0"x1' - 0"	(4)#5 EW
F4	4' - 0"x4' - 0"x1' - 2"	(5) #5 EW
F5.5	5' - 6"x5' - 6"x1' - 4"	(6) #5 EW
F19.5	19' - 6"x6' - 0"x1' - 6"	#6 @ 12" EW T&B

LIVE OAK ENGINEERING
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ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.10449 PATRICIA M. PAUDE
06-09-2026

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CONTENTS

BASEMENT AND FOUNDATION PLAN

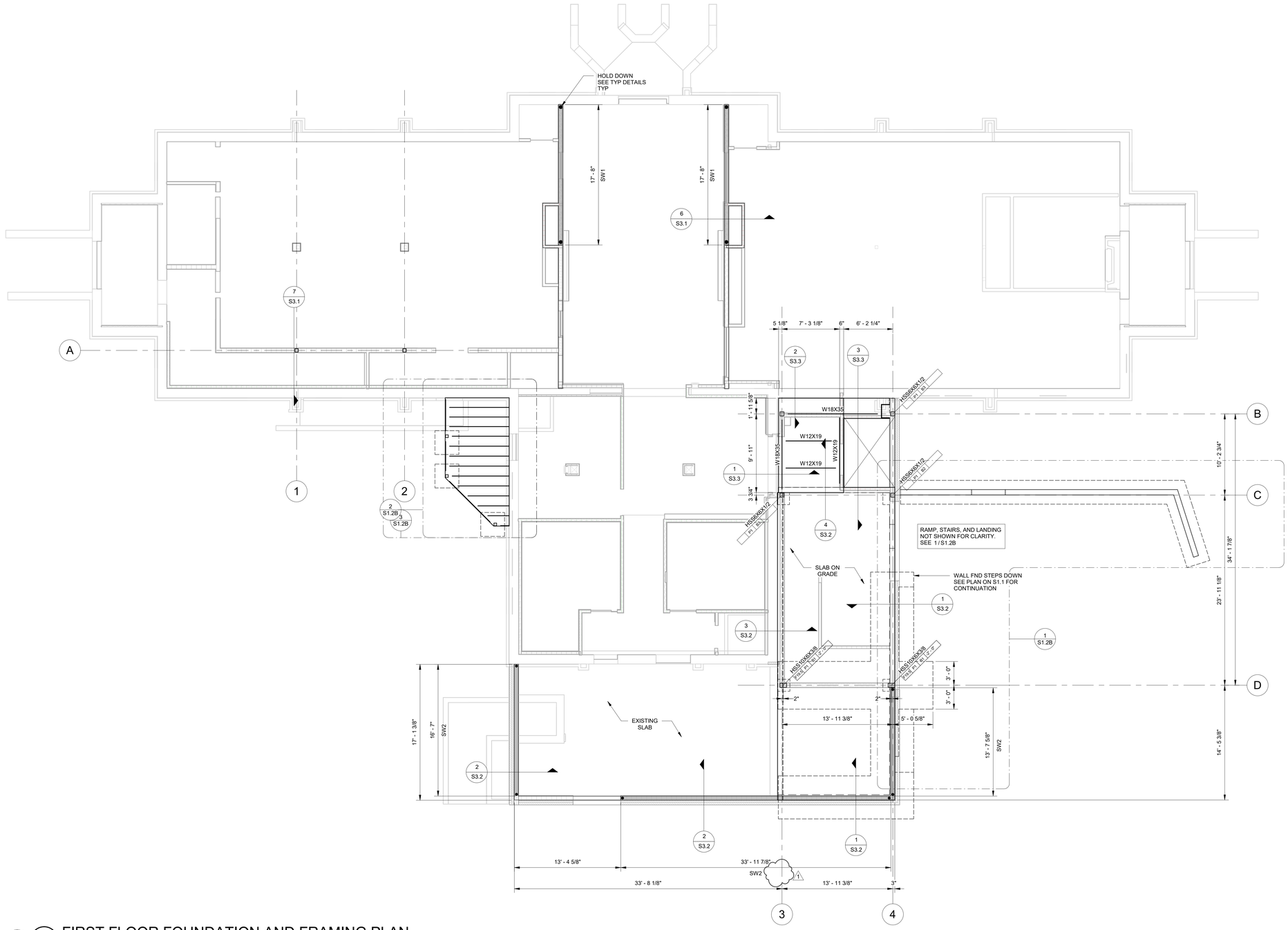
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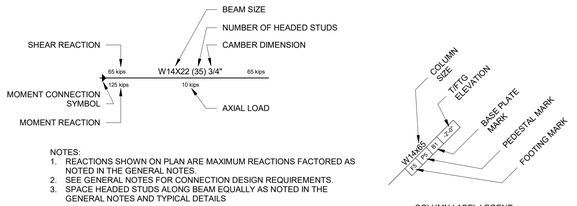
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S1.1



FIRST FLOOR FOUNDATION AND FRAMING PLAN

N 1 / S1.2 — 3/16" = 1'-0"



NOTES:
1. REACTIONS SHOWN ON PLAN ARE MAXIMUM REACTIONS FACTORED AS NOTED IN THE GENERAL NOTES.
2. SEE GENERAL NOTES FOR CONNECTION DESIGN REQUIREMENTS.
3. SPACE HEADED STUDS ALONG BEAM EQUALLY AS NOTED IN THE GENERAL NOTES AND TYPICAL DETAILS

COLUMN LABEL LEGEND

FOUNDATION PLAN NOTES:
1. FINISH FLOOR (TOP OF SLAB) ELEVATION 0'-0", UNLESS NOTED OTHERWISE
2. TOP OF FOOTING ELEVATION, SEE PLAN.
3. SLAB ON GRADE CONSTRUCTION: 4-INCH THICK CONCRETE SLAB ON COMPACTED STONE FILL(SEE GEOTECH REPORT.) PROVIDE 6x6-W1.4xW1.4 WWF. SECURELY POSITION 1" FROM TOP OF SLAB AND SUPPORT w/ SLAB BOLSTERS OR CONCRETE BLOCK.
4. APPROXIMATE LOCATIONS OF FOOTING STEPS ARE SHOWN ON PLAN. CONTRACTOR TO COORDINATE STEP LOCATIONS WITH THE LATEST CIVIL, PLUMBING, AND UTILITY DRAWINGS. SEE TYPICAL DETAILS FOR FOOTING STEP REQUIREMENTS.
5. PROVIDE CONTROL JOINTS AT 15'-0" MAXIMUM SPACING. SEE TYPICAL DETAILS.

FLOOR FRAMING PLAN NOTES:
1. FINISH FLOOR (TOP OF SLAB) ELEVATION 0'-0", UNLESS NOTED OTHERWISE.
2. TOP OF STEEL (JOIST BEARING) ELEVATION -0'-4", UNLESS NOTED OTHERWISE.
3. FLOOR CONSTRUCTION: 2 1/2" NW, CONCRETE ON 1 1/2" DEEP, 50 KSI, 20 GAUGE, GALVANIZED NON-COMPOSITE STEEL DECK (VULCRAFT TYPE "C" OR EQUIVALENT), REINFORCED W/ 6x6-W2.1xw2.1 WWF LOCATED 1" FROM THE TOP OF SLAB. (TOTAL SLAB THICKNESS = 4")
4. EVENLY SPACE JOISTS BETWEEN COLUMNS LINES OR WALLS, OR AS NOTED ON PLAN. MAXIMUM SPACING OF JOISTS TO BE 4'-0".
5. PLACE CONCRETE FOR THE ENTIRE SLAB IN A SINGLE POUR OR COORDINATE WITH THE STRUCTURAL ENGINEER OF RECORD FOR CONSTRUCTION JOINT LOCATIONS.
6. COORDINATE LOCATIONS OF MECHANICAL EQUIPMENT AND REQUIRED SLAB OPENINGS WITH THE MECHANICAL DRAWINGS PRIOR TO CONSTRUCTION. SEE TYPICAL DETAILS FOR ADDITIONAL FRAMING.
7. LOCATIONS OF SHEAR WALLS ARE SHOWN ON PLAN WITH A GRAY HATCH. SEE TYPICAL DETAILS FOR SHEATHING AND NAIL PATTERNS.

● - ON PLAN DENOTES A SHEAR WALL HOLD DOWN. SEE TYPICAL DETAILS.

EXISTING CONDITIONS NOTES:
1. CONTRACTOR TO FIELD VERIFY EXISTING FRAMING LAYOUT PRIOR TO CONSTRUCTION. CONTACT LIVE OAK ENGINEERING PRIOR TO CONSTRUCTION IF EXISTING FRAMING DIFFERS FROM FRAMING SHOWN ON PLAN AND IN SECTION.
2. WHERE NOTED ON PLAN AND IN SECTION, CONTRACTOR TO MEASURE EXISTING FRAMING SIZES AND SEND TO LIVE OAK ENGINEERING FOR REVIEW. CONFIRMATION OF EXISTING FRAMING SIZES MAY RESULT IN CHANGES TO DETAILS.
3. CONTRACTOR TO REVIEW DEMO PLANS PRIOR TO CONSTRUCTION. SHORE EXISTING FRAMING AS NOTED ON DEMO PLANS PRIOR TO DEMO WORK. SEND SHORING PLANS AND CALCULATIONS TO LIVE OAK ENGINEERING FOR REVIEW AND APPROVAL.

PAD FOOTING SCHEDULE		
MARK	FOOTING SIZE	REINFORCEMENT
F3	3' - 0"x3' - 0"x1' - 0"	(4)#5 EW
F4	4' - 0"x4' - 0"x1' - 2"	(5) #5 EW
F5.5	5' - 6"x5' - 6"x1' - 4"	(6) #5 EW
F19.5	19' - 6"x6' - 0"x1' - 6"	#6 @ 12" EW T&B

LIVE OAK ENGINEERING, INC. No. 1672 — CERTIFICATE OF AUTHORIZATION — ARKANSAS ENGINEER
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AR COA#: 1672
LOE PROJECT #: 294-6

WDD ARCHITECTS

ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.10449 PATRICIA M. PRUDE
06-09-2026

PROJECT TITLE
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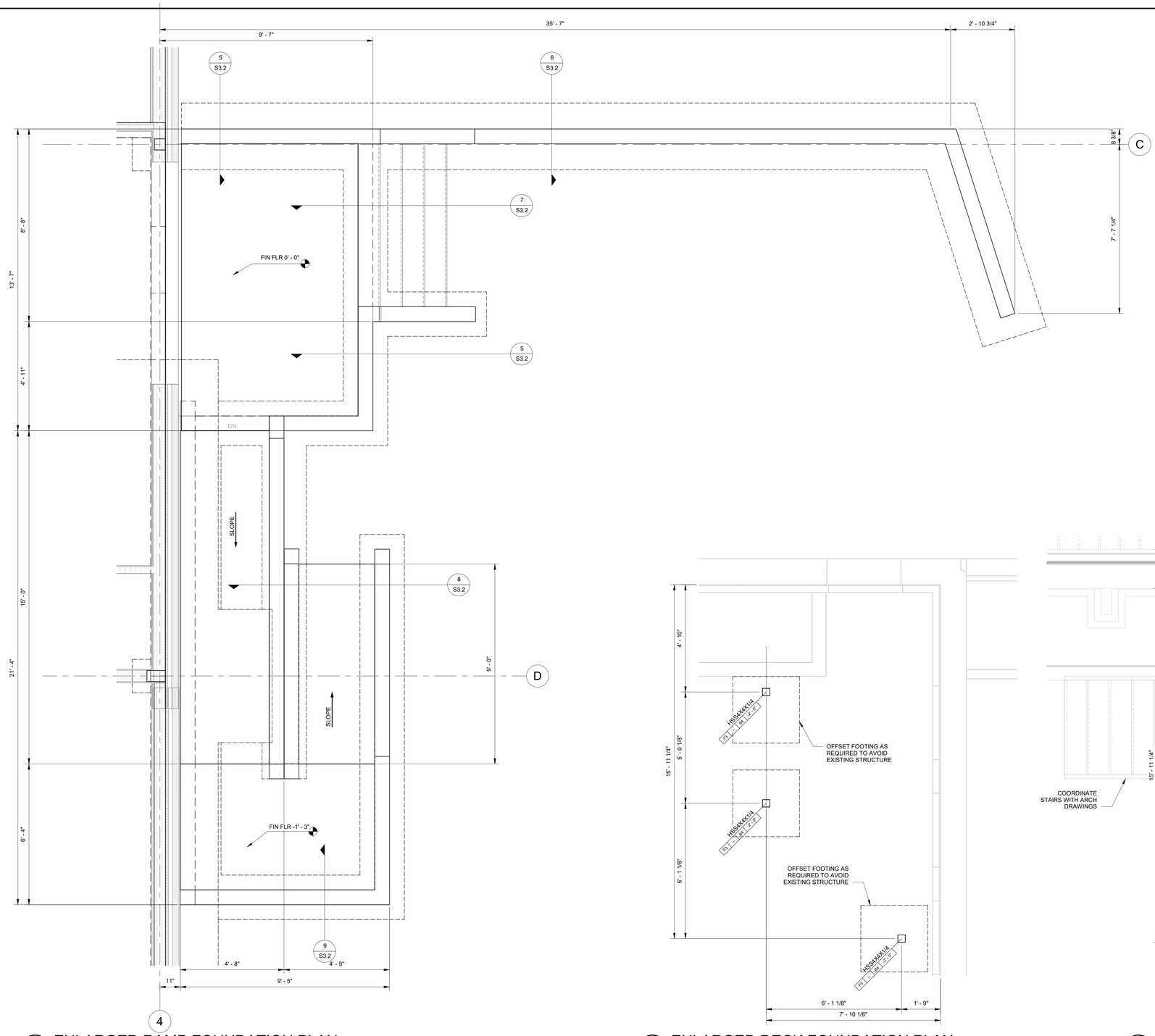
CONTENTS
1ST FLOOR FRAMING PLAN

REVISIONS

NO.	DATE	DESCRIPTION
1	06/15/2026	Revision 1

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S1.2



1 S1.2B ENLARGED RAMP FOUNDATION PLAN

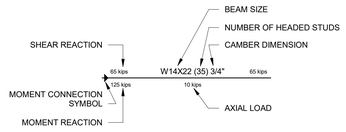
1/2" = 1'-0"

RAMP & STAIR NOTES:
1. FINISH FLOOR (TOP OF SLAB) ELEVATION 0'-0", UNLESS NOTED OTHERWISE
2. TOP OF FOOTING ELEVATION, TO MATCH ELEVATION OF FOOTINGS SHOWN ON S1.2.
3. SLAB ON GRADE CONSTRUCTION: 4-INCH THICK CONCRETE SLAB ON COMPACTED STONE FILL(SEE GEOTECH REPORT.) PROVIDE 6x6-W1.4xW1.4 WWF. SECURELY POSITION 1" FROM TOP OF SLAB AND SUPPORT w/ SLAB BOLSTERS OR CONCRETE BLOCK.
4. COORDINATE RAMP SLOPES AND STAIR DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

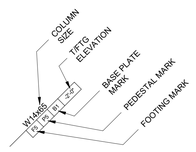
2 S1.2B ENLARGED DECK FOUNDATION PLAN

1/2" = 1'-0"

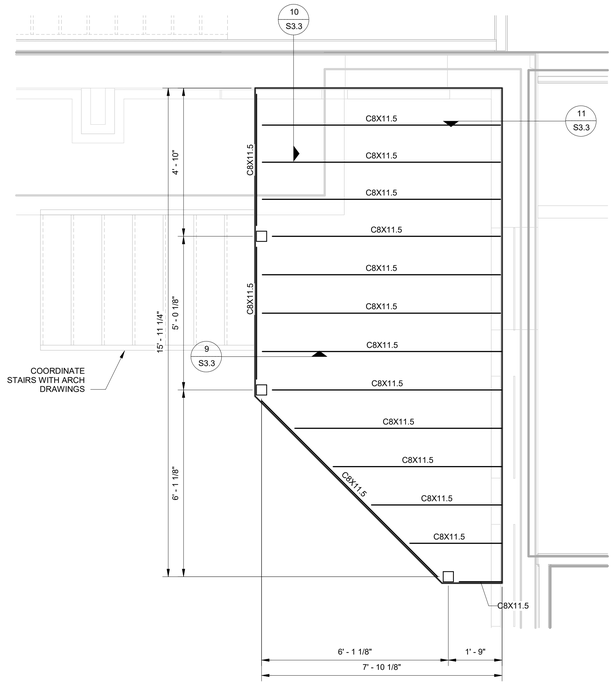
NOTES:
1. TOP OF FOOTING ELEVATION SHOWN ON PLAN IS IN REFERENCE TO FINISH GRADE. COORDINATE FINISH GRADE ELEVATION WITH CIVIL DRAWINGS.



NOTES:
1. REACTIONS SHOWN ON PLAN ARE MAXIMUM REACTIONS FACTORED AS NOTED IN THE GENERAL NOTES.
2. SEE GENERAL NOTES FOR CONNECTION DESIGN REQUIREMENTS.
3. SPACE HEADED STUDS ALONG BEAM EQUALLY AS NOTED IN THE GENERAL NOTES AND TYPICAL DETAILS



COLUMN LABEL LEGEND



3 S1.2B ENLARGED DECK FRAMING PLAN

1/2" = 1'-0"

NOTES:
1. FINISH FLOOR ELEVATION: 0'-0", UNLESS NOTED OTHERWISE.
2. DECKING: 3/4" COMPOSITE WOOD DECKING. SEE ARCH
3. EVEN SPACE FRAMING BETWEEN COLUMNS AT 2'-0" MAX.

PAD FOOTING SCHEDULE

MARK	FOOTING SIZE	REINFORCEMENT
F3	3' - 0"x3' - 0"x1' - 0"	(4)#5 EW
F4	4' - 0"x4' - 0"x1' - 2"	(5) #5 EW
F5.5	5' - 6"x5' - 6"x1' - 4"	(6) #5 EW
F19.5	19' - 6"x6' - 0"x1' - 6"	#6 @ 12" EW T&B

WDD ARCHITECTS
ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 10449 PATRICIA M. PAUDE
06-09-2026

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ENLARGED RAMP AND STAIR PLATFORM PLANS

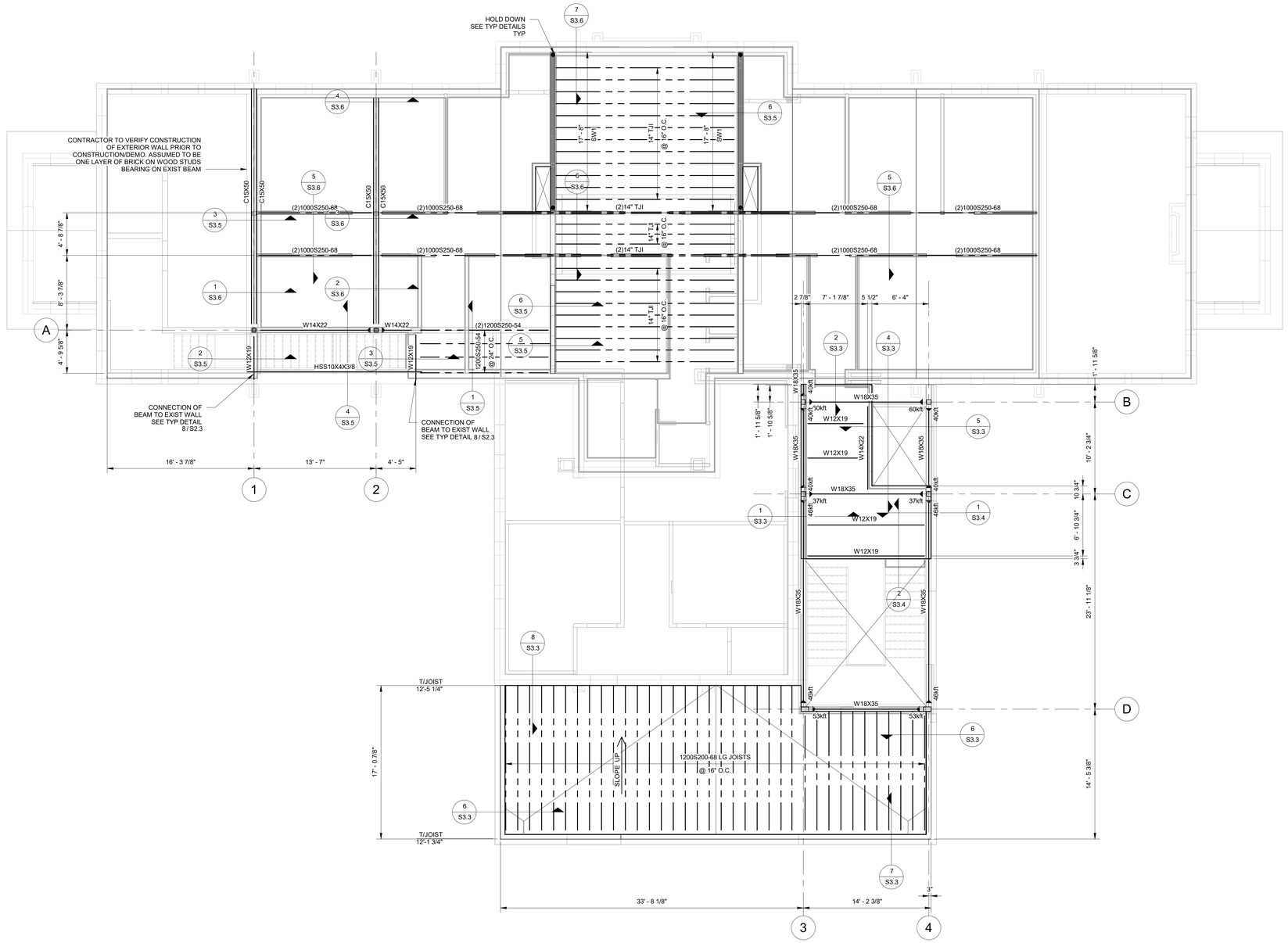
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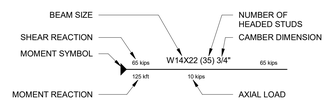
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SECOND FLOOR FRAMING PLAN

N 1 / S1.3 — 3/16" = 1'-0"



NOTES:
1. REACTIONS SHOWN ON PLAN ARE MAXIMUM REACTIONS FACTORED AS NOTED IN THE GENERAL NOTES.
2. SEE GENERAL NOTES FOR CONNECTION DESIGN REQUIREMENTS.
3. SPACE HEADED STUDS ALONG BEAM EQUALLY AS NOTED IN THE GENERAL NOTES AND TYPICAL DETAILS.

- LT GA SHEAR WALL

FLOOR FRAMING PLAN NOTES:
1. FINISH FLOOR (TOP OF SLAB) ELEVATION 13'-10 1/2", UNLESS NOTED OTHERWISE.
2. TOP OF STEEL (JOIST BEARING) ELEVATION 13'-6 1/2", UNLESS NOTED OTHERWISE.
3. NEW CONSTRUCTION FLOOR: 2 1/2" NW. CONCRETE ON 1 1/2" DEEP, 50 KSI, 20 GAUGE, GALVANIZED NON-COMPOSITE STEEL DECK (VULCRAFT TYPE "C" OR EQUIVALENT), REINFORCED W/ 6x6-W2.1XW2.1 WWF LOCATED 1" FROM THE TOP OF SLAB. (TOTAL SLAB THICKNESS = 4")
4. EXISTING BUILDING FLOOR CONSTRUCTION: WHERE EXISTING FRAMING HAS BEEN REMOVED AND REPLACE, FLOOR FRAMING IS NOTED ON PLAN. REPLACE ANY REMOVED FLOOR DECK TO MATCH EXISTING. THE EXISTING DECKING IS ASSUMED TO BE TWO LAYERS OF 3/4" PLYWOOD. CONTRACTOR TO CONFIRM EXISTING DECKING AND COORDINATE WITH EOR.
5. EVENLY SPACE JOISTS BETWEEN COLUMNS LINES OR WALLS, OR AS NOTED ON PLAN. MAXIMUM SPACING OF JOISTS TO BE 4'-0".
6. PLACE CONCRETE FOR THE ENTIRE SLAB IN A SINGLE POUR OR COORDINATE WITH THE STRUCTURAL ENGINEER OF RECORD FOR CONSTRUCTION JOINT LOCATIONS.
7. COORDINATE LOCATIONS OF MECHANICAL EQUIPMENT AND REQUIRED SLAB OPENINGS WITH THE MECHANICAL DRAWINGS PRIOR TO CONSTRUCTION. SEE TYPICAL DETAILS FOR ADDITIONAL FRAMING.

ROOF FRAMING PLAN NOTES:
1. TOP OF WALL (TRUSS BEARING) ELEVATION: MATCH EXISTING.
2. ROOF CONSTRUCTION: 3/4" THICK, APA RATED (48/24) PLYWOOD SHEATHING, EXPOSURE 1, ON PRE-ENGINEERED LIGHT GAUGE JOISTS SPACED AT 24" ON CENTER. ORIENT BOARD WITH LONG PANEL EDGE PERPENDICULAR TO THE JOISTS, AND SHORT EDGES STAGGERED. ALL PANEL EDGES ARE TO BE BLOCKED WITH LIGHT GAUGE FRAMING.
3. PLYWOOD ROOF SHEATHING ATTACHMENT: NO. 8 SCREWS SPACED AT 6-INCHES DIAPHRAGM BOUNDARY EDGES AND ALL CONTINUOUS PANEL EDGES, AND NO. 8 SCREWS SPACED AT 6-INCHES AT ALL OTHER PANEL EDGES AND INTERIOR PANEL SUPPORTS.
4. EVENLY SPACE TRUSSES OR AS SHOWN ON PLAN WITH A MAXIMUM SPACING OF 16".
5. FOR SHEAR WALL SHEATHING INFORMATION AND ATTACHMENT, SEE TYPICAL DETAILS.
6. ONLY LOAD BEARING WALLS ARE SHOWN ON PLAN. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND CONSTRUCTION OF NON-LOAD BEARING WALLS.
7. COORDINATE LOCATIONS OF MECHANICAL EQUIPMENT AND REQUIRED DECK OPENINGS WITH THE MECHANICAL DRAWINGS PRIOR TO CONSTRUCTION. SEE TYPICAL DETAILS FOR ADDITIONAL FRAMING.
8. LOCATIONS OF SHEAR WALLS ARE SHOWN ON PLAN WITH A GRAY HATCH. SEE TYPICAL DETAILS FOR SHEATHING AND NAIL PATTERNS.

● - ON PLAN DENOTES A SHEAR WALL HOLD DOWN. SEE TYPICAL DETAILS.

EXISTING CONDITIONS NOTES:
1. CONTRACTOR TO FIELD VERIFY EXISTING FRAMING LAYOUT PRIOR TO CONSTRUCTION. CONTACT LIVE OAK ENGINEERING PRIOR TO CONSTRUCTION IF EXISTING FRAMING DIFFERS FROM FRAMING SHOWN ON PLAN AND IN SECTION.
2. WHERE NOTED ON PLAN AND IN SECTION, CONTRACTOR TO MEASURE EXISTING FRAMING SIZES AND SEND TO LIVE OAK ENGINEERING FOR REVIEW. CONFIRMATION OF EXISTING FRAMING SIZES MAY RESULT IN CHANGES TO DETAILS.
3. CONTRACTOR TO REVIEW DEMO PLANS PRIOR TO CONSTRUCTION. SHORE EXISTING FRAMING AS NOTED ON DEMO PLANS PRIOR TO DEMO WORK. SEND SHORING PLANS AND CALCULATIONS TO LIVE OAK ENGINEERING FOR REVIEW AND APPROVAL.

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WDD ARCHITECTS

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06-09-2026

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CONTENTS
2ND FLOOR FRAMING PLAN

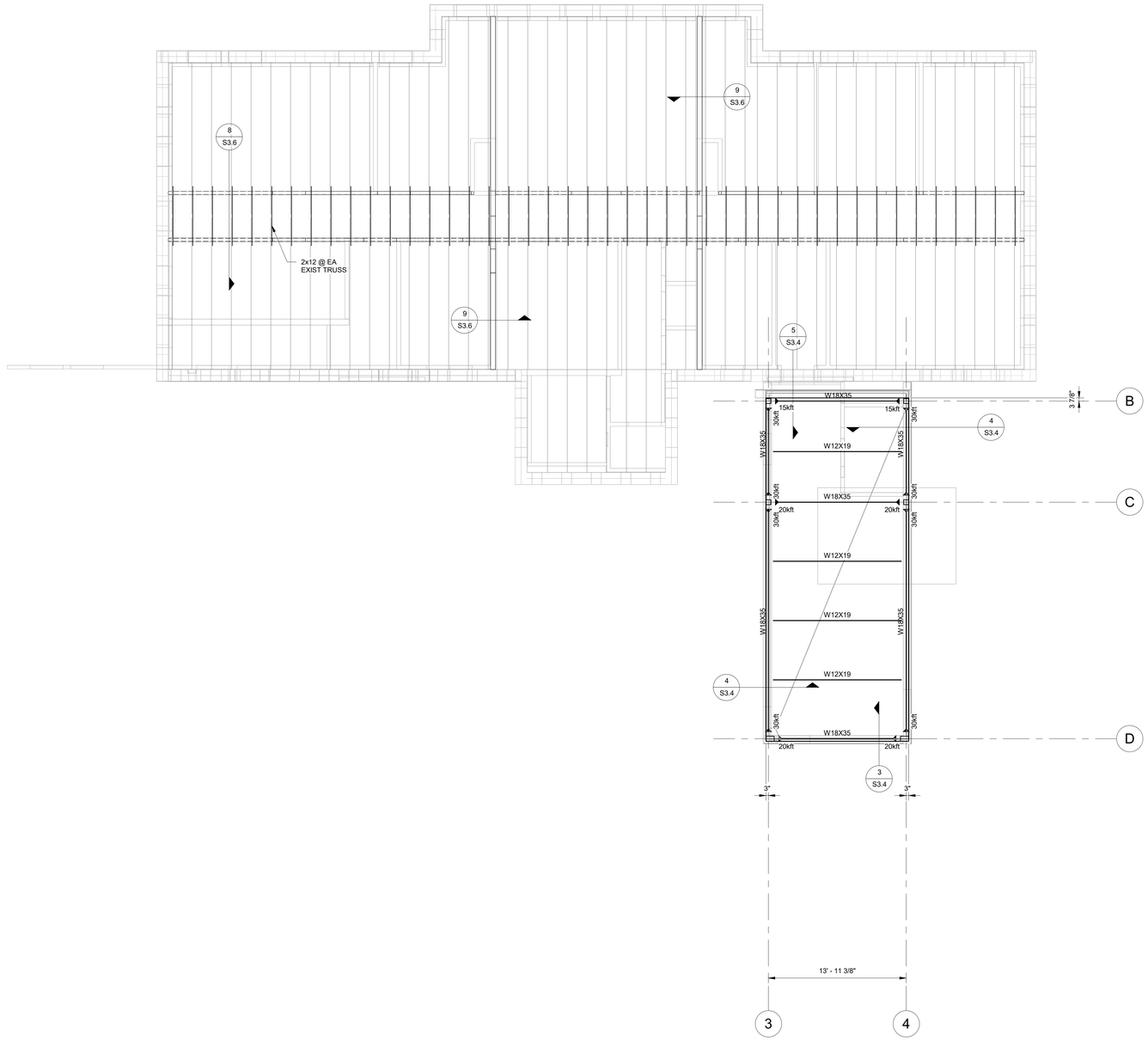
REVISIONS

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25-043
JOB. NO.

06-09-2026
DATE
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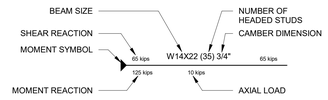
SHEET
S1.3



N 1 S1.4

ROOF FRAMING PLAN

3/16" = 1'-0"



NOTES:
1. REACTIONS SHOWN ON PLAN ARE MAXIMUM REACTIONS FACTORED AS NOTED IN THE GENERAL NOTES.
2. SEE GENERAL NOTES FOR CONNECTION DESIGN REQUIREMENTS.
3. SPACE HEADED STUDS ALONG BEAM EQUALLY AS NOTED IN THE GENERAL NOTES AND TYPICAL DETAILS.

ROOF FRAMING PLAN NOTES:
1. TOP OF STEEL (JOIST BEARING) ELEVATION 27'-0" UNLESS NOTED ON PLAN.
2. ROOF CONSTRUCTION: 1 ½" DEEP, 50 KSI, 20 GAUGE, WIDE RIB (TYPE "B") GALVANIZED STEEL ROOF DECK ON STEEL BEAMS AND JOISTS.
3. FOR STEEL ROOF DECK ATTACHMENT, SEE TYPICAL DETAILS.
4. EVENLY SPACE BEAMS BETWEEN COLUMNS LINES OR WALLS, OR AS NOTED ON PLAN. MAXIMUM SPACING OF JOISTS TO BE 6'-0".
5. COORDINATE LOCATIONS OF MECHANICAL EQUIPMENT AND REQUIRED DECK OPENINGS WITH THE MECHANICAL DRAWINGS PRIOR TO CONSTRUCTION. SEE TYPICAL DETAILS FOR ADDITIONAL FRAMING AROUND OPENINGS.
6. DO NOT HANG MECHANICAL, ELECTRICAL, OR PLUMBING EQUIPMENT FROM THE ROOF DECK. HANG FROM THE BOTTOM CHORD OF THE JOISTS AND REINFORCE JOISTS AS REQUIRED PER TYPICAL DETAIL.

EXISTING CONDITIONS NOTES:
1. CONTRACTOR TO FIELD VERIFY EXISTING FRAMING LAYOUT PRIOR TO CONSTRUCTION. CONTACT LIVE OAK ENGINEERING PRIOR TO CONSTRUCTION IF EXISTING FRAMING DIFFERS FROM FRAMING SHOWN ON PLAN AND IN SECTION.
2. WHERE NOTED ON PLAN AND IN SECTION, CONTRACTOR TO MEASURE EXISTING FRAMING SIZES AND SEND TO LIVE OAK ENGINEERING FOR REVIEW. CONFIRMATION OF EXISTING FRAMING SIZES MAY RESULT IN CHANGES TO DETAILS.
3. CONTRACTOR TO REVIEW DEMO PLANS PRIOR TO CONSTRUCTION. SHORE EXISTING FRAMING AS NOTED ON DEMO PLANS PRIOR TO DEMO WORK. SEND SHORING PLANS AND CALCULATIONS TO LIVE OAK ENGINEERING FOR REVIEW AND APPROVAL.

CERTIFICATE OF AUTHORIZATION
LIVE OAK ENGINEERING, INC.
No. 1672
ARKANSAS ENGINEER

LIVE OAK ENGINEERING
2509 7th AVENUE SOUTH
BIRMINGHAM, AL 35233
205.637.3115

AR COA#: 1672
LOE PROJECT #: 294-6

WDD ARCHITECTS

ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 10449 PATRICIA M. PADGETT
06-09-2026

PROJECT TITLE
ST JOHNS CENTER
BYRNE HALL RENOVATION
ENTER ADDRESS HERE

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ROOF FRAMING PLAN

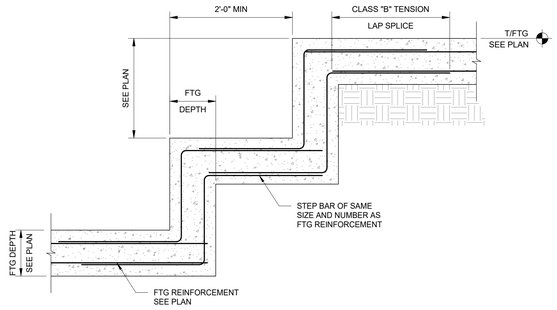
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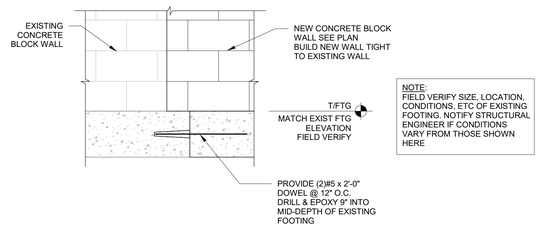
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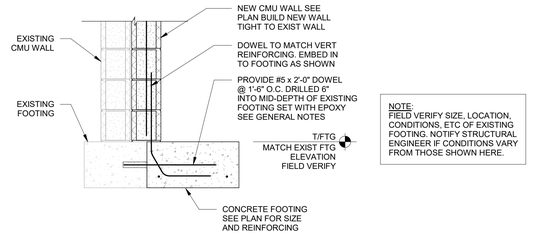
1 S2.1 STEPPED FOOTING DETAIL

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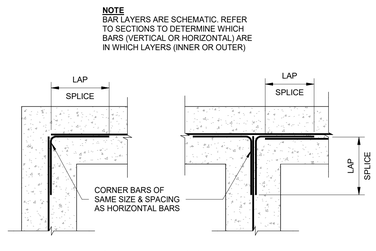
3 S2.1 NEW FOOTING TO EXISTING FOOTING DETAIL

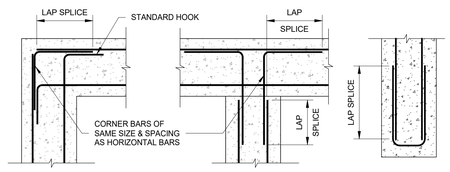
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4 S2.1 NEW FOOTING TO PARALLEL EXISTING FOOTING

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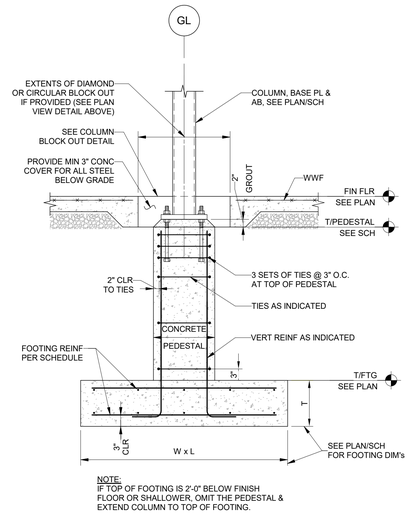




NOTE:
ALL LAP SPLICES CLASS "B" TENSION,
SEE TABLE ON THE GENERAL NOTES.

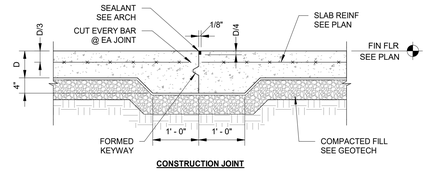
10 S2.1 WALL REINFORCING AT CORNERS & INTERSECTIONS

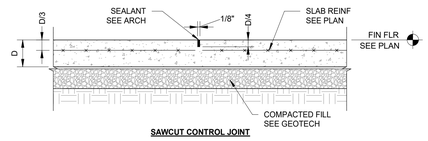
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2 S2.1 COLUMN FOOTING DETAIL

N.T.S.



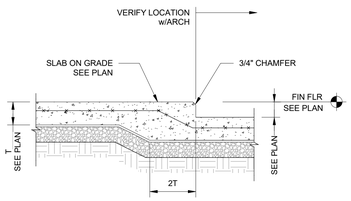


NOTES

1. SEE FOUNDATION PLAN(S) FOR SLAB THICKNESS AND REINF
2. DISCONTINUOUS REINFORCEMENT AT JOINTS.
3. CUT EVERY BAR @ EA JOINT.
4. THE SAWCUTTING SHALL BE DONE WITHIN 8 HOURS OF PLACEMENT OR AS SOON AS THE CONCRETE HAS SUFFICIENTLY CURED TO PERMIT CUTTING WITHOUT CHIPPING, SPALLING OR TEARING.
5. THE GENERAL LAYOUT OF SAW-CUT JOINTS IS SHOWN ON PLAN. CONTRACTOR TO VERIFY THE SPACING OF SAW-CUT JOINTS DOES NOT EXCEED 15'-0". CONTACT THE ENGINEER OF RECORD WITH ANY ISSUES IN THE SAW-CUT JOINT LAYOUT.

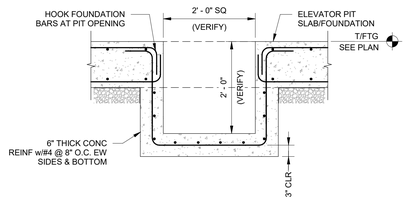
5 S2.1 TYP SLAB JOINTS PEDESTRIAN TRAFFICKED

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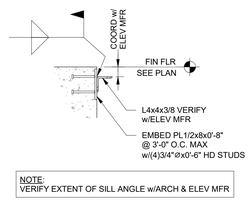
6 S2.1 RECESSED SLAB FOR STEP 6 INCHES OR LESS

N.T.S.



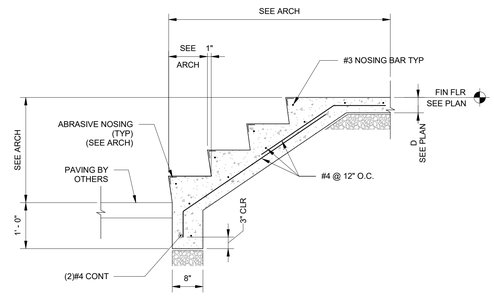
7 S2.1 ELEVATOR SUMP PIT DETAIL

N.T.S.



8 S2.1 ELEVATOR SILL DETAIL

N.T.S.



9 S2.1 CONCRETE STAIR DETAIL

N.T.S.

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WDD ARCHITECTS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 10449
PATRICIA M. PAJOUHI
06-09-2026

PROJECT TITLE

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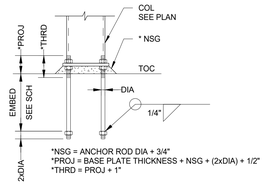
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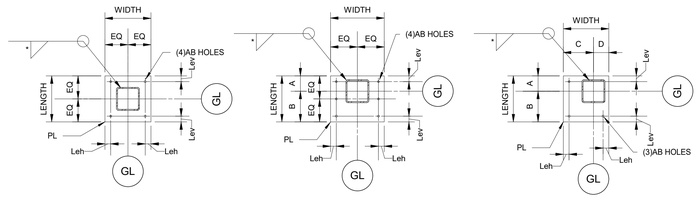
SHEET

S2.1

NOTE
1. ANCHOR RODS SHALL BE PROVIDED WITH HEX NUTS AND CUT WASHERS OF SPECIFICATIONS COMPATIBLE WITH THOSE OF THE THREADED SHANKS UNLESS NOTED OTHERWISE.
2. NUTS SHALL BE PROVIDED UNDER THE BASE PLATE FOR LEVELING AND PLUMBING OF COLUMN.



*NSG = ANCHOR ROD DIA + 3/4"
*PROJ = BASE PLATE THICKNESS + NSG + (2xDIA) + 1/2"
*THRD = PROJ + 1"

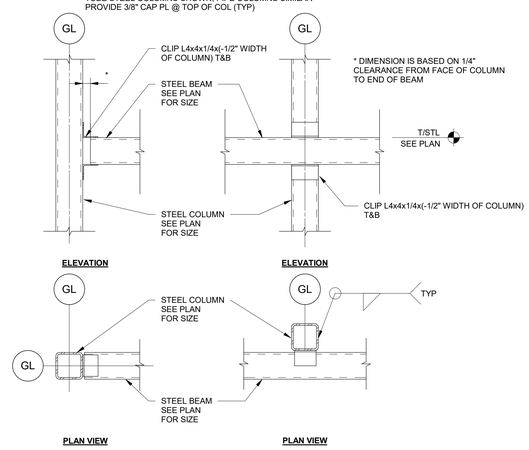


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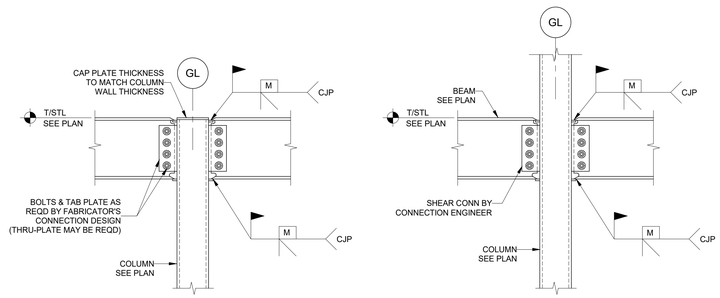
COLUMN BASE PLATE SCHEDULE													
MARK	BASE PLATE DIMENSIONS				EDGE DISTANCES		COLUMN OFFSET DIMENSIONS				ANCHOR ROD		
	TYPE	LENGTH	WIDTH	THK	Leh	Lev	A	B	C	D	#	DIA	EMBED
B1	B	1'-3"	1'-2"	1 1/2"	2"	2"	5 1/2"	9 1/2"	-	-	6	1"	12"
B2	B	1'-0"	1'-0"	3/4"	1 1/2"	1 1/2"	3"	9"	-	-	4	3/4"	12"
B3	C	1'-0"	1'-0"	3/4"	1 1/2"	1 1/2"	3"	9"	9"	3"	3	3/4"	12"
B4	A	1'-0"	1'-0"	3/4"	1 1/2"	1 1/2"	-	-	-	-	4	3/4"	12"

1 S2.2 TYP COLUMN BASEPLATE DETAILS AND SCHEDULE
N.T.S.

NOTE:
TUBE STEEL COLUMNS SHOWN, PIPE COLUMNS SIMILAR
PROVIDE 3/8" CAP PL @ TOP OF COL (TYP)

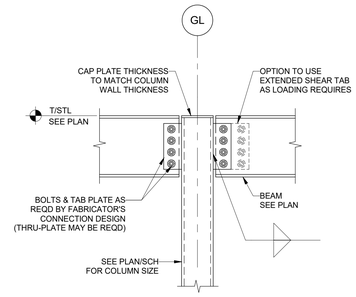


2 S2.2 TYP HSS BEAM TO HSS COL CONN DETAIL
N.T.S.

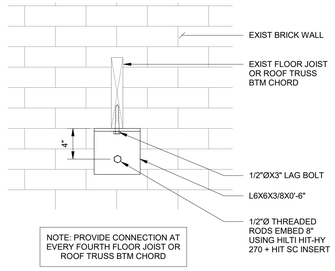


TUBE COLUMN TUBE COLUMN

3 S2.2 BEAM TO COLUMN MOMENT CONNECTION DETAIL
N.T.S.



4 S2.2 TYP SHEAR CONNECTION TO COLUMN DETAIL
N.T.S.



5 S2.2 SEISMIC RESTRAINT OF EXIST FLOOR/ROOF FRAMING
N.T.S.

LIVE OAK ENGINEERING
2509 7th AVENUE SOUTH
BIRMINGHAM, AL 35233
205.637.3115
AR COA#: 1672
LOE PROJECT #: 294-6

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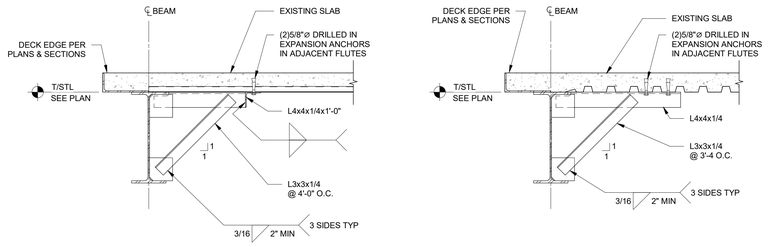
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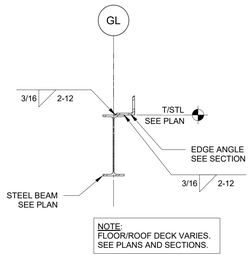
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S2.2



1 S2.3 BEAM BOTTOM FLANGE KICKER TO CONCRETE DECK DETAIL

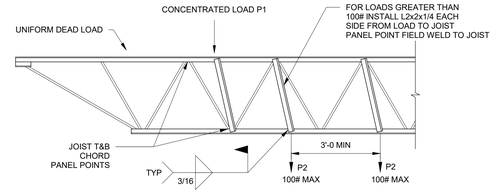
N.T.S.



NOTE:
FLOOR/ROOF DECK VARIES.
SEE PLANS AND SECTIONS.

2 S2.3 EDGE ANGLE DETAIL

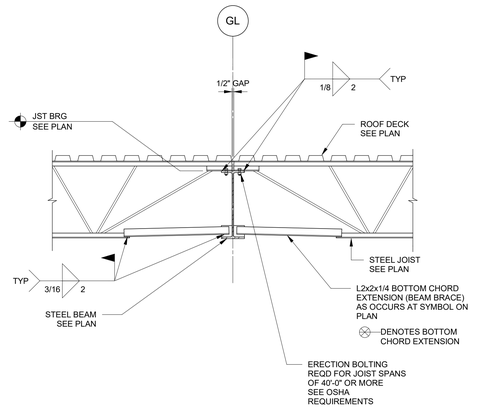
N.T.S.



NOTES FOR CONCENTRATED HANGING LOADS:
1. ALL HANGER LOADS SHOULD BE APPLIED ALONG THE CENTERLINE OF THE JOIST CHORD (i.e. NO ECCENTRICITY).
2. HANGER LOADS APPLIED AT ANY NON-PANEL POINT ALONG THE JOIST CHORD SHALL NOT EXCEED 100 POUNDS AND SHALL BE SPACED A MINIMUM OF 36" APART. LOADS GREATER THAN 100 POUNDS MUST BE APPLIED AT PANEL POINT, OR ADDITIONAL BRACING MUST BE ATTACHED FROM LOAD TO TOP CHORD PANEL POINT AS SHOWN.
3. THE SUM TOTAL OF ALL HANGING LOADS APPLIED TO ANY ONE JOIST SHALL NOT EXCEED 1000 POUNDS AND NO SINGLE LOAD SHALL EXCEED 2/3 OF THIS AMOUNT.
4. PIPING, DUCTWORK, LIGHTS, CONDUIT RUNS, ETC. MAY BE HUNG FROM TWO OR MORE JOISTS TO MEET THESE REQUIREMENTS.
5. CALCULATION OF ACTUAL HANGER LOADS MUST INCLUDE THE WEIGHT OF ALL MECHANICAL, ELECTRICAL OR ANY OTHER TRADE'S EQUIPMENT, PIPING, DUCTWORK, INSULATION, CONDUIT, LIGHTS, ETC. INCLUDING WEIGHT OF HANGING SYSTEM USED. CONSIDER ALL PIPING TO BE FILLED WITH WATER AND ALL CONDUIT RUNS TO WEIGH TWICE THEIR UNFILLED WEIGHT.

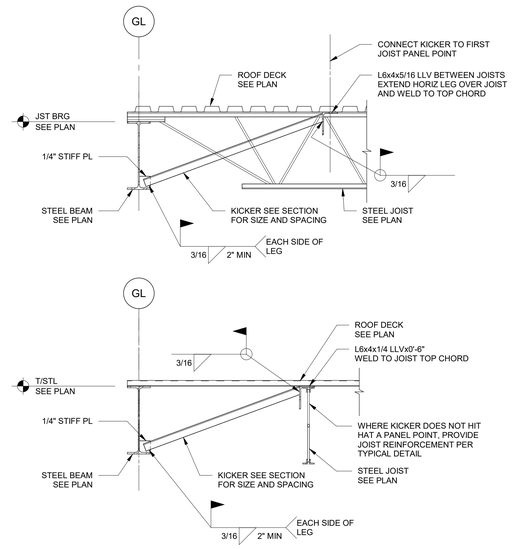
3 S2.3 TYP JOIST REINFORCING POINT LOADING DETAIL

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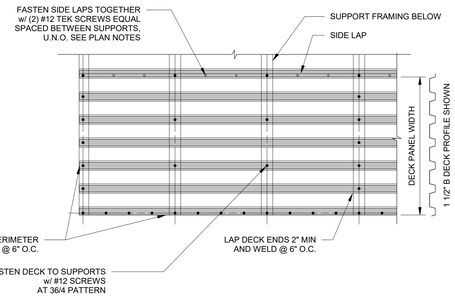
4 S2.3 TYP JOIST BRG @ STEEL DETAIL

N.T.S.



5 S2.3 TYP KICKER TO JOIST CONNECTION DETAIL

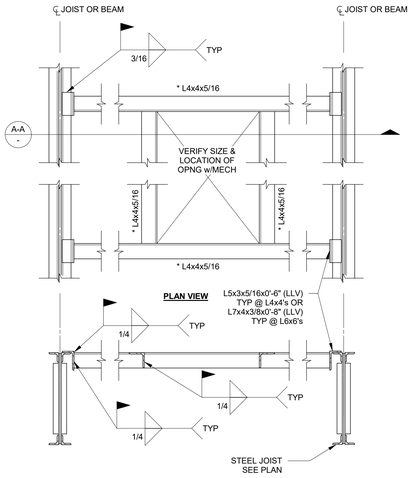
N.T.S.



NOTES:
1. ALL WELDS ARE 5/8"ø PUDDLE WELDS U.N.O., WELDING WASHERS SHALL BE USED WHEN WELDING STEEL DECK IF MATERIAL THICKNESS IS LESS THAN 22 GA.
2. DECK LENGTH TO BE A MINIMUM OF 3 SPANS BETWEEN SUPPORTS.

6 S2.3 1 1/2" ROOF DECK WELDING ATTACHMENT DETAIL

N.T.S.

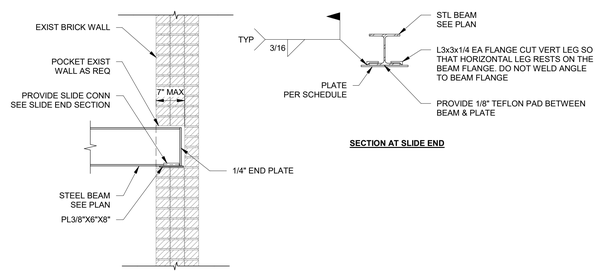


SECTION VIEW A-A

NOTES:
1. * USE L6x6x3/8 @ 8'-0" TO 10'-0" O.C. JOIST OR BEAM SPACING LOCATIONS.
2. * USE L6X6X3/8 @ OPENING SPANS GREATER THAN 8'-0" LOCATIONS.
3. FOR OPENINGS 8'-0" OR GREATER, CONSULT WITH STRUCTURAL ENGINEER.
4. ROOF DECK TO BE ATTACHED PER PLAN NOTES TO ALL OPENING COMPONENT MEMBERS SHOWN HERE (ROOF DECK NOT SHOWN IN THESE VIEWS).
5. COMPOSITE DECK TO BE ATTACHED PER PLAN NOTES TO ALL OPENING COMPONENT MEMBERS SHOWN HERE (COMPOSITE DECK NOT SHOWN IN THESE VIEWS).
6. PROVIDE DECK CLOSURE PERIMETER OF OPENINGS IN COMPOSITE SLAB.

7 S2.3 TYP DECK OPENING DETAIL

N.T.S.



SECTION AT SLIDE END

8 S2.3 BEAM BEARING ON EXIST BRICK WALL DETAIL

N.T.S.

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2509 7th AVENUE SOUTH
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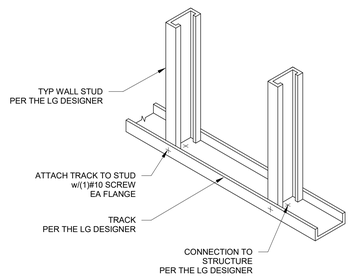
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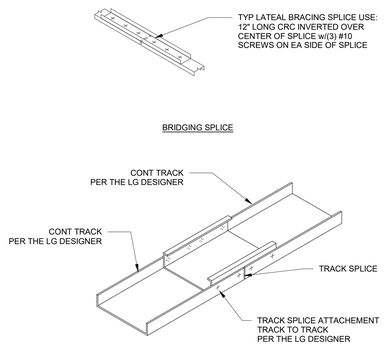
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S2.3



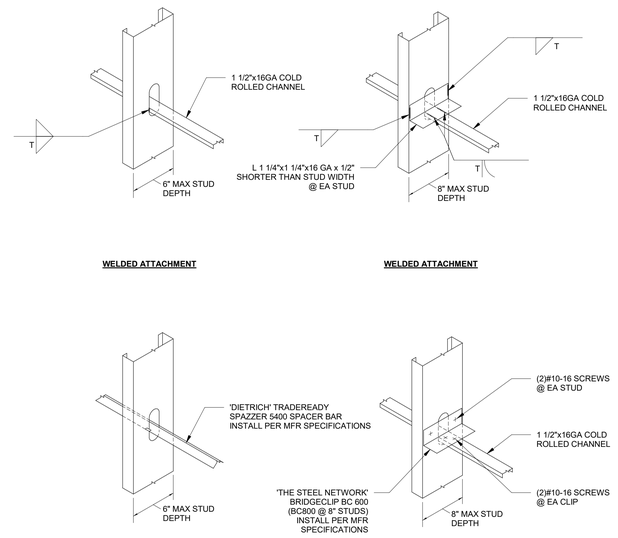
STUD TO TRACK DETAIL

1 S2.4 STUD TO TRACK DETAIL
N.T.S.

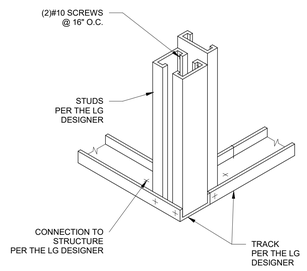


TRACK SPLICE

2 S2.4 TRACK SPLICE DETAIL
N.T.S.

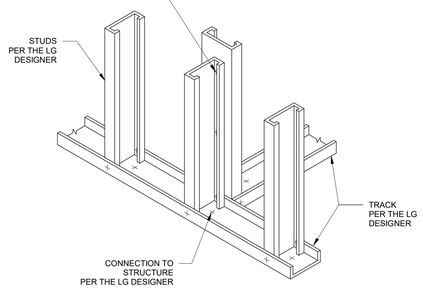


3 S2.4 BRIDGING ATTACHMENT DETAIL
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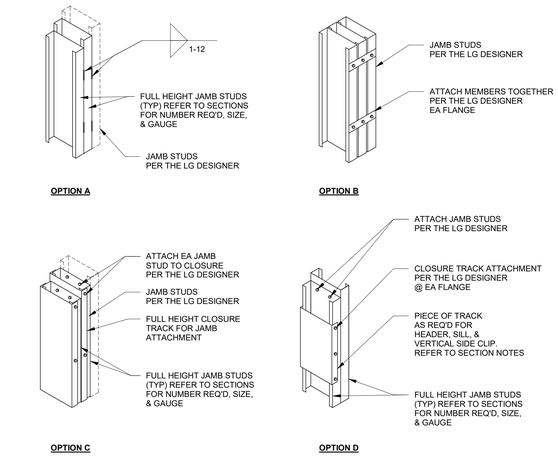
WALL INTERSECTION DETAIL

4 S2.4 WALL CORNER INTERSECTION DETAIL
N.T.S.



WALL INTERSECTION DETAIL

5 S2.4 WALL INTERSECTION DETAIL
N.T.S.



JAMB ATTACHMENT DETAIL

6 S2.4 BUILT-UP STUDS ATTACHMENT DETAIL
N.T.S.

WDD ARCHITECTS

ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 10449 PATRICIA M. PADDOCK
06-09-2026

LIVE OAK ENGINEERING, INC. No. 1672 CERTIFICATE OF AUTHORIZATION ARKANSAS ENGINEER
LIVE OAK ENGINEERING
2509 7th AVENUE SOUTH
BIRMINGHAM, AL 35233
205.637.3115
AR COA#: 1672
LOE PROJECT #: 294-6

PROJECT TITLE
ST JOHNS CENTER
BYRNE HALL RENOVATION
ENTER ADDRESS HERE

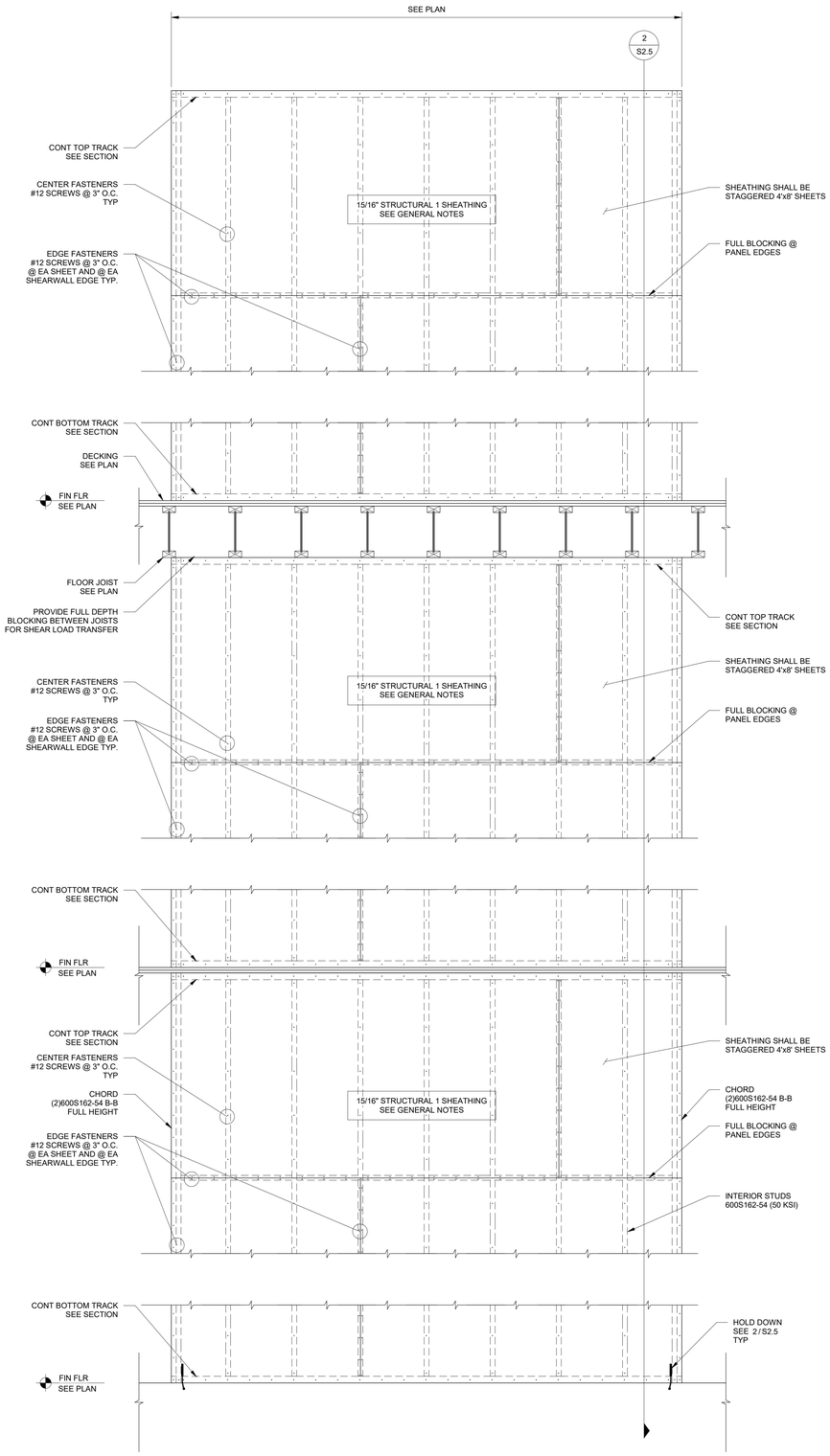
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JOB. NO.
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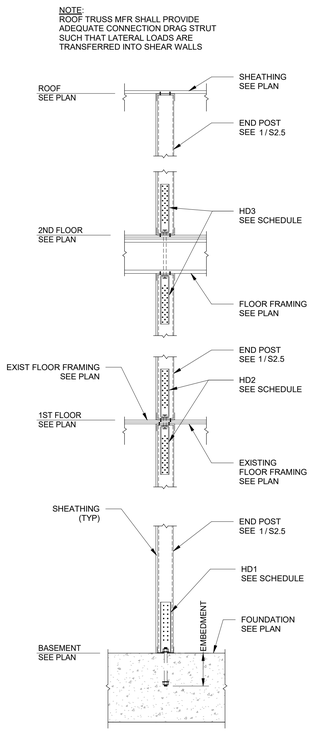
SHEET
S2.4



1 S2.5 SHEAR WALL 1 ELEVATION

N.T.S.

NOTES:
1. COORDINATE LOCATIONS OF SHEAR WALLS WITH THE PLANS.
2. COORDINATE HOLDDOWN TYPES WITH DETAIL 2/S2.5
3. SEE GENERAL NOTES FOR MATERIAL SPECIFICATIONS.

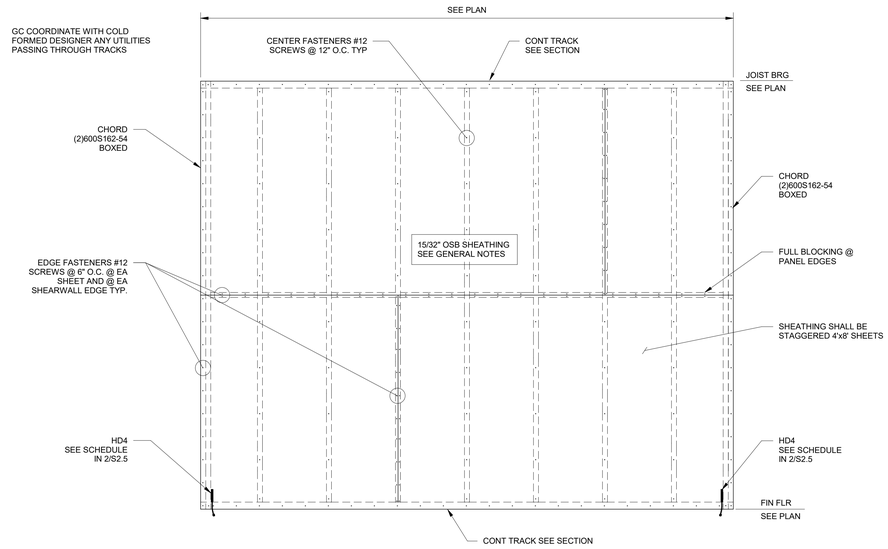


HOLD DOWN SCHEDULE				
MARK	HOLD DOWN	SCREWS INTO CHORD	ANCHOR	
HD1	S/HDU11-(2)54	(27)#14 SCREWS	7/8"ø ANCHOR EMBED	
HD2	S/HDU11-54	(27)#14 SCREWS	7/8"ø THRU BOLT	
HD3	HTT5-54	(26)#14 SCREWS	5/8"ø THRU BOLT	
HD4	HTT5-54	(26)#14 SCREWS	TO NEW	5/8"ø ANCHOR EMBED ??"
			TO EXISTING	5/8"ø ANCHOR EMBED ??" USING HILTI HIT-HY 200

NOTES:
1. COORDINATE HOLDDOWN LOCATIONS WITH SHEAR WALLS NOTED ON PLANS.
2. HOLDDOWNS NOTED IN THE SCHEDULE ARE SIMPSON STRONG-TIE HOLDDOWNS. CONTRACTOR CAN SUBMIT ALTERNATE SUPPLIERS TO THE EOR FOR REVIEW AND APPROVAL.

2 S2.5 STACKED SHEAR WALL DETAILS

N.T.S.



3 S2.5 SHEAR WALL 2 ELEVATION

N.T.S.

WDD ARCHITECTS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 10449
PATRICIA M. PAUDE
06-09-2026

PROJECT TITLE

ST JOHNS CENTER
BYRNE HALL RENOVATION
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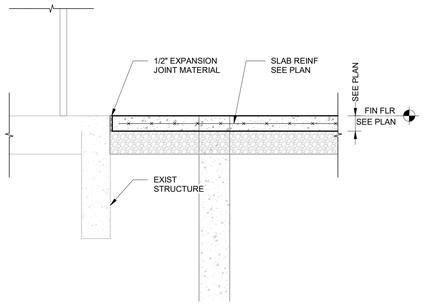
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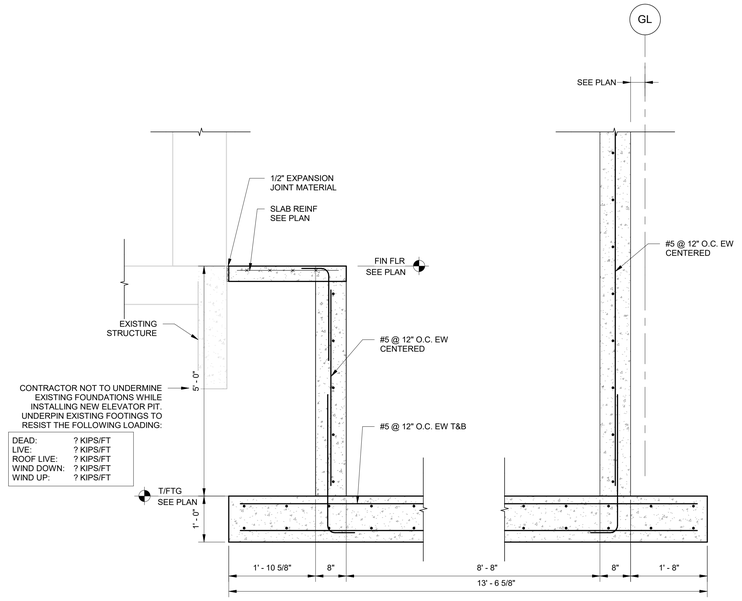
CERTIFICATE OF AUTHORIZATION
LIVE OAK ENGINEERING, INC.
No. 1672
ARKANSAS ENGINEER

LIVE OAK ENGINEERING
2509 7th AVENUE SOUTH
BIRMINGHAM, AL 35233
205.637.3115

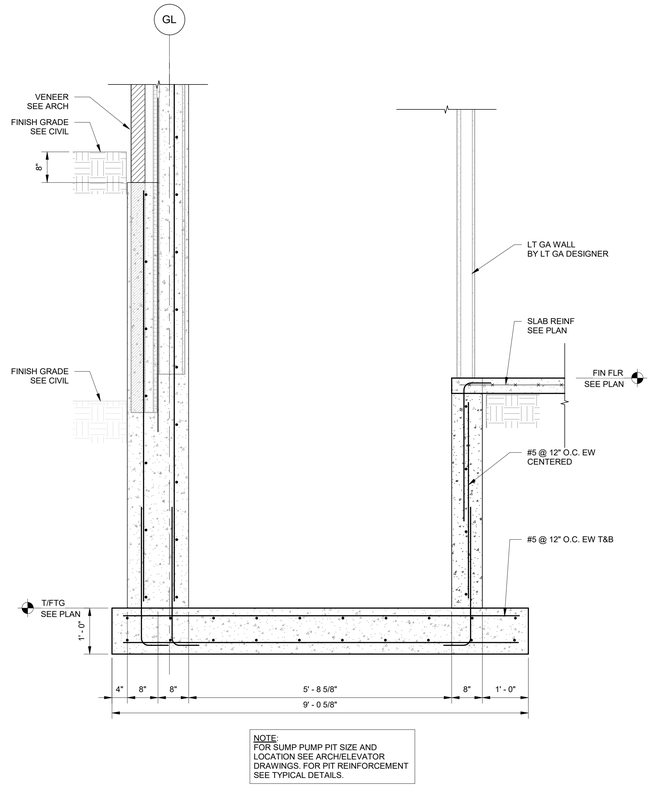
AR COA#: 1672
LOE PROJECT #: 294-6



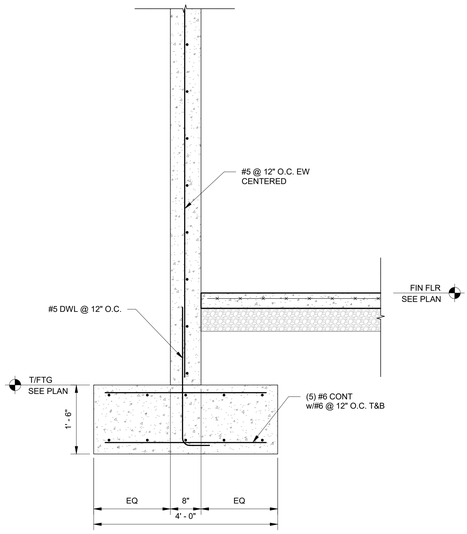
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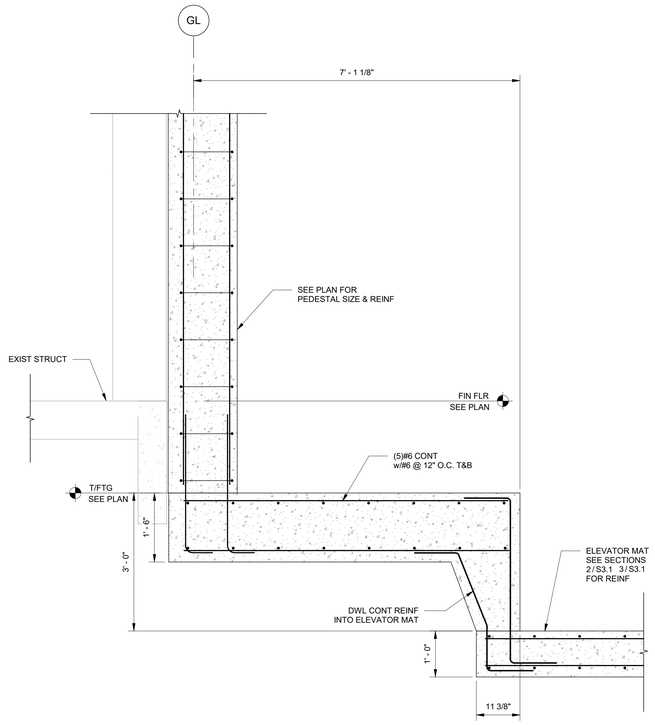
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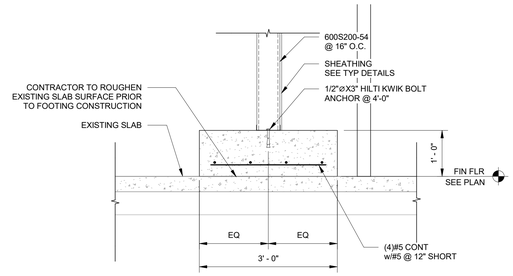
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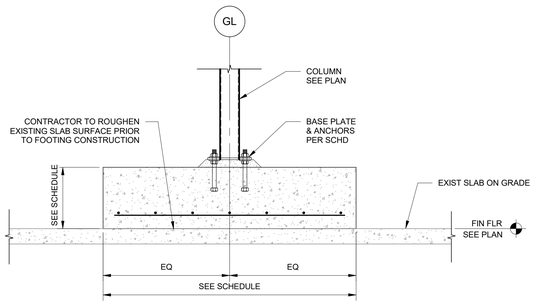
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5 S3.1 SECTION
3/4" = 1'-0"



6 S3.1 SECTION
3/4" = 1'-0"



7 S3.1 SECTION
3/4" = 1'-0"

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ARKANSAS ENGINEER

LIVE OAK ENGINEERING
2509 7th AVENUE SOUTH
BIRMINGHAM, AL 35233
205.637.3115
AR COA#: 1672
LOE PROJECT #: 294-6

WDD ARCHITECTS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 10449
PATRICIA M. PAUDDE
06-09-2026

PROJECT TITLE
ST JOHNS CENTER
BYRNE HALL RENOVATION
ENTER ADDRESS HERE

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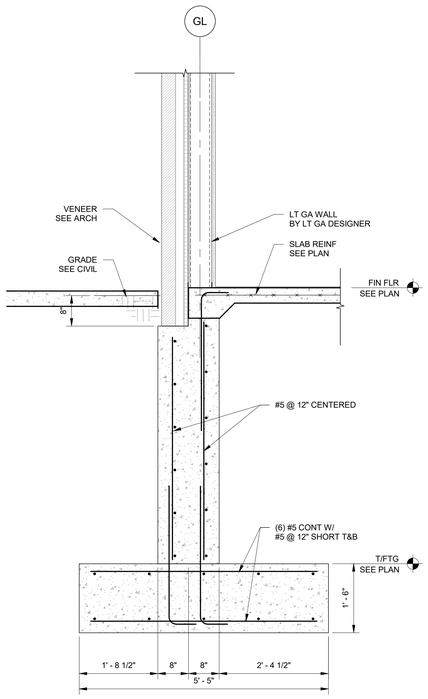
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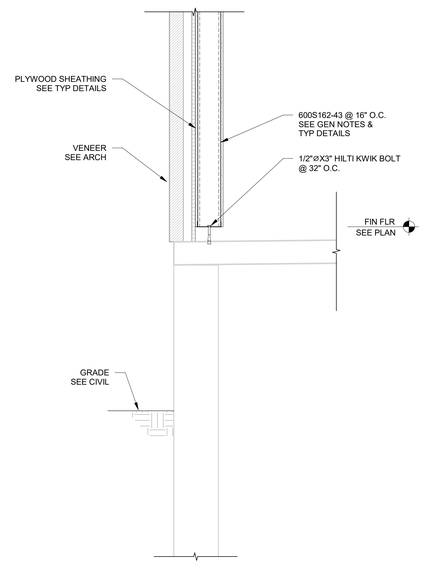
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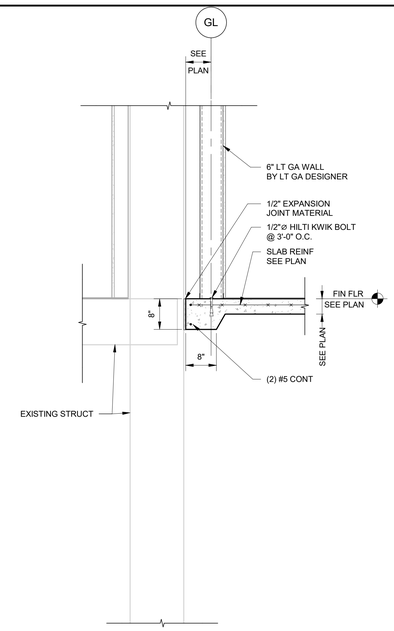
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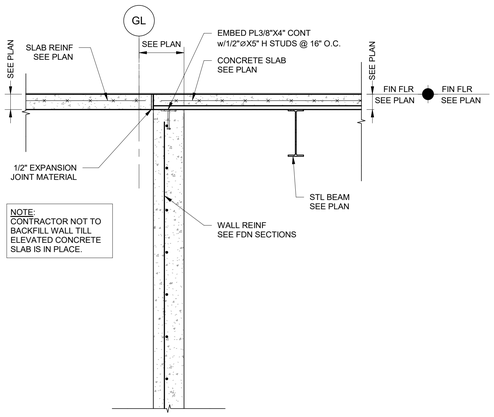
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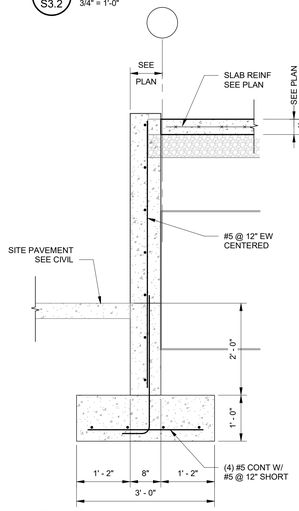
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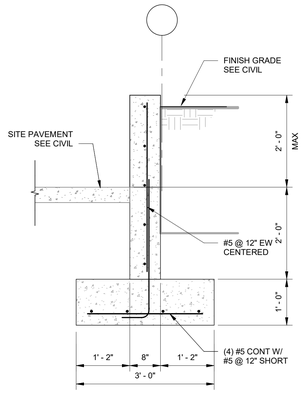
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3/4" = 1'-0"



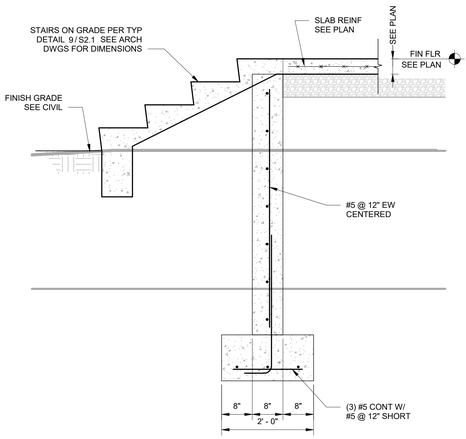
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3/4" = 1'-0"



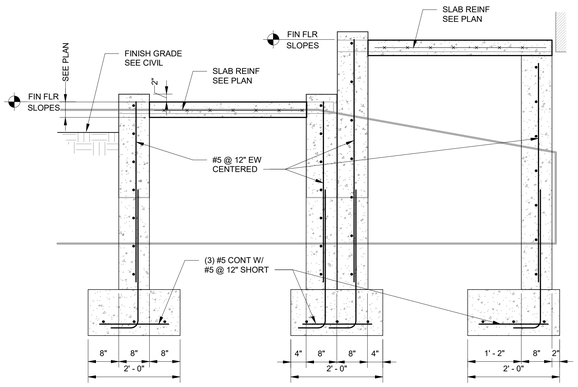
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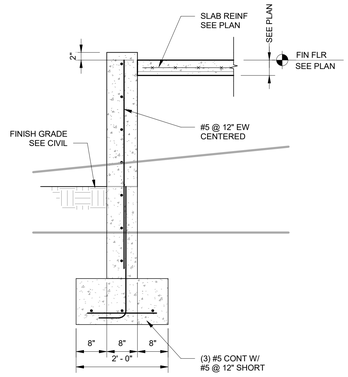
6 S3.2 SECTION
3/4" = 1'-0"



7 S3.2 SECTION
3/4" = 1'-0"



8 S3.2 SECTION
3/4" = 1'-0"



9 S3.2 SECTION
3/4" = 1'-0"

WDD ARCHITECTS

ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 10449 PATRICIA M. PAJOUHI
06-09-2026

LIVE OAK ENGINEERING
2509 7th AVENUE SOUTH
BIRMINGHAM, AL 35233
205.637.3115

AR COA#: 1672
LOE PROJECT #: 294-6

CERTIFICATE OF AUTHORIZATION
LIVE OAK ENGINEERING, INC.
No. 1672
ARKANSAS ENGINEER

PROJECT TITLE
ST JOHNS CENTER
BYRNE HALL RENOVATION
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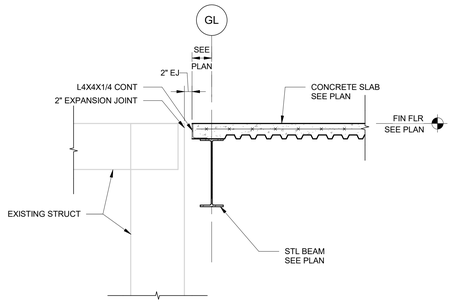
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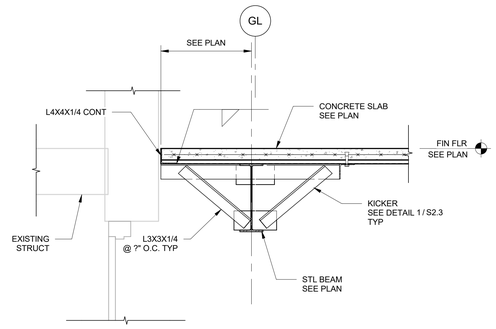
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JOB. NO.
06-09-2026
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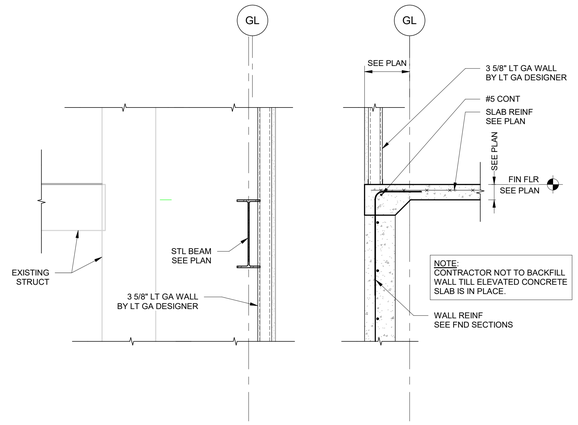
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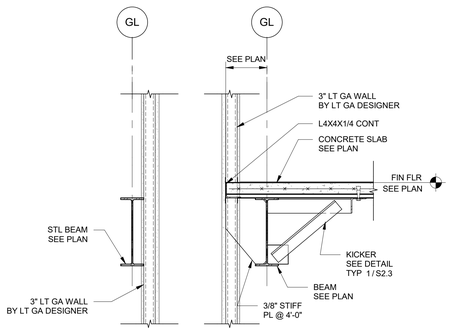
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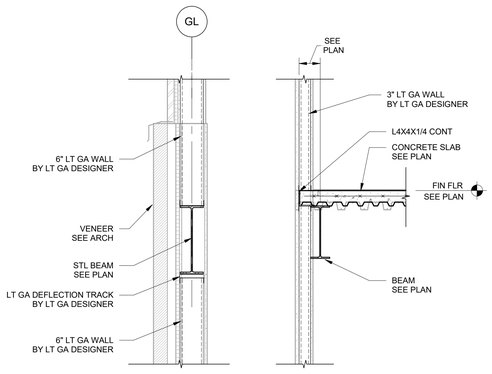
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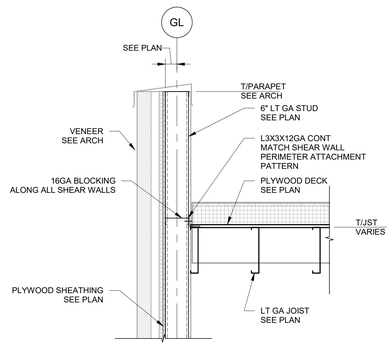
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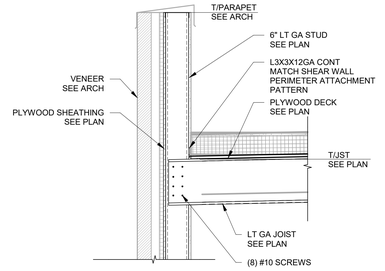
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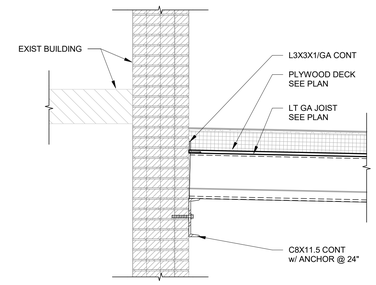
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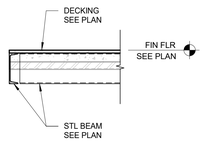
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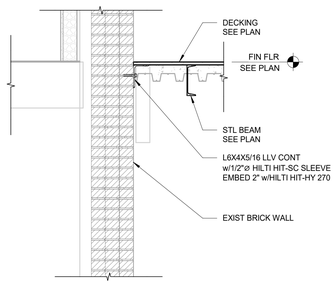
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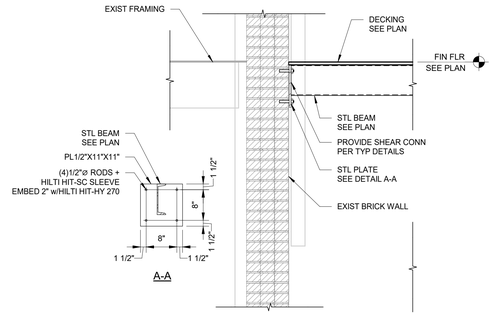
8 S3.3 SECTION
3/4" = 1'-0"



9 S3.3 SECTION
3/4" = 1'-0"



10 S3.3 SECTION
3/4" = 1'-0"



11 S3.3 SECTION
3/4" = 1'-0"

LIVE OAK ENGINEERING
2509 7th AVENUE SOUTH
BIRMINGHAM, AL 35233
205.637.3115
AR COA#: 1672
LOE PROJECT #: 294-6

WDD ARCHITECTS

ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 10449 PATRICIA M. PADGETT
06-09-2026

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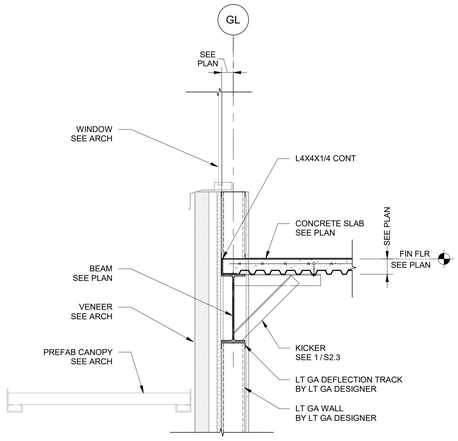
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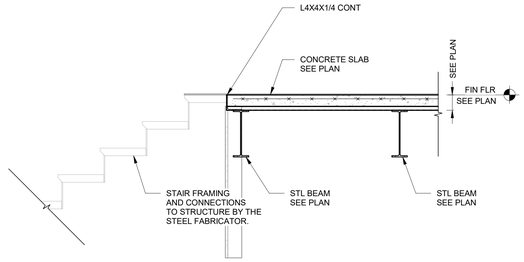
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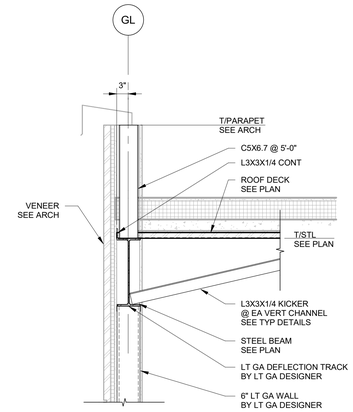
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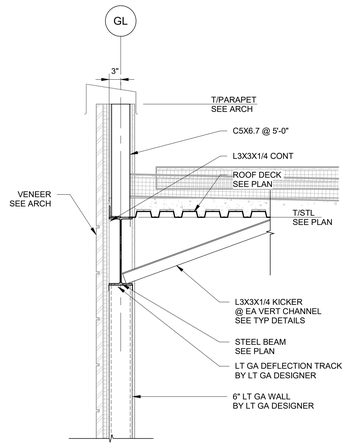
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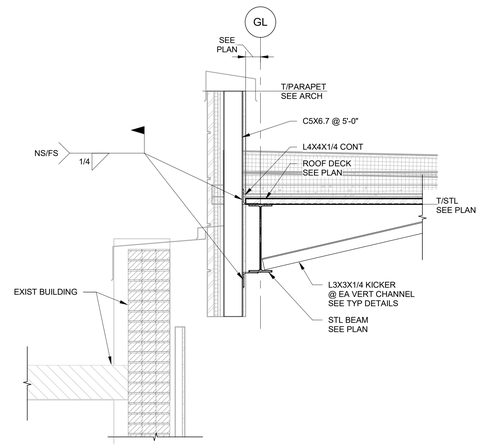
2 S3.4 SECTION
3/4" = 1'-0"



3 S3.4 SECTION
3/4" = 1'-0"



4 S3.4 SECTION
3/4" = 1'-0"



5 S3.4 SECTION
3/4" = 1'-0"

LIVE OAK ENGINEERING
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205.637.3115

AR COA#: 1672
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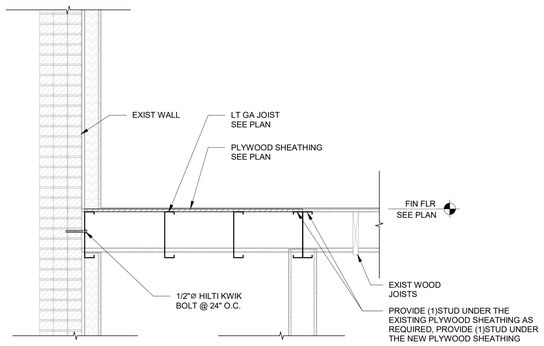
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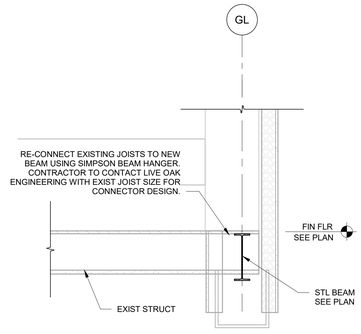
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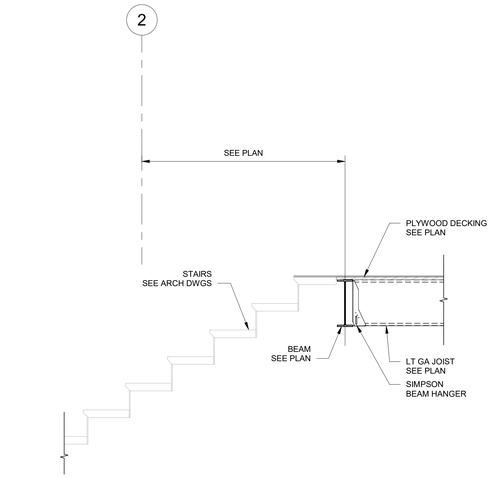
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S3.4



1 S3.5 **SECTION**
3/4" = 1'-0"

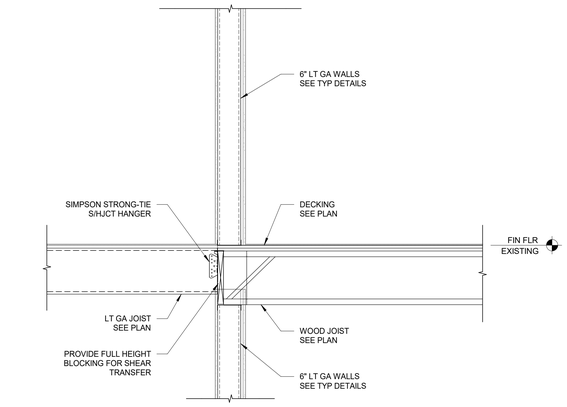


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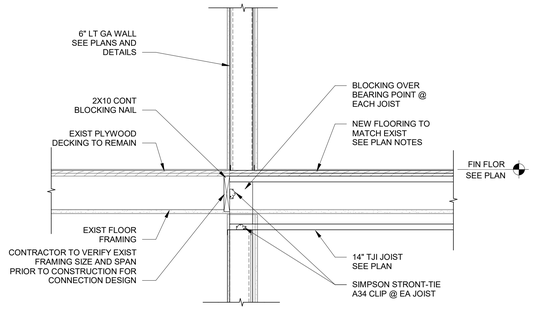


3 S3.5 **SECTION**
3/4" = 1'-0"

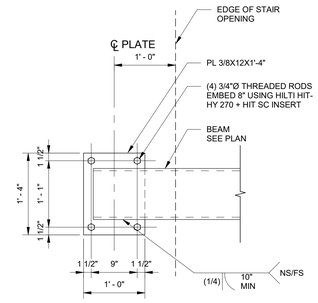
4 S3.5 **SECTION**
3/4" = 1'-0"



5 S3.5 **SECTION**
3/4" = 1'-0"



6 S3.5 **SECTION**
3/4" = 1'-0"



NOTES:
1. CONNECTION APPLIES TO BOTH SIDE OF EACH BEAM PROVIDING LATERAL SUPPORT TO THE EXISTING BRICK WALL (SEE SECTION 4 / S3.5).
2. BEAMS AND CONNECTION MUST BE INSTALLED PRIOR DO DEMO OF THE EXISTING FLOOR.
3. COORDINATE EXACT EXTENTS OF THE STAIR OPENING WITH ARCHITECTURAL DRAWINGS. IF THE OPENING EXCEEDS 18'-0", CONTACT LIVE OAK ENGINEERING FOR VERIFICATION OF THE BEAM AND CONNECTION.

7 S3.5 **CONNECTION DETAIL**
1" = 1'-0"

WDD ARCHITECTS

ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 10449 PATRICIA M. PLOUDE
06-09-2026

LIVE OAK ENGINEERING
2509 7th AVENUE SOUTH
BIRMINGHAM, AL 35233
205.637.3115
AR COA#: 1672
LOE PROJECT #: 294-6

PROJECT TITLE
ST JOHNS CENTER
BYRNE HALL RENOVATION
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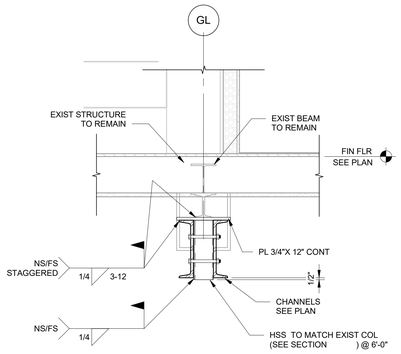
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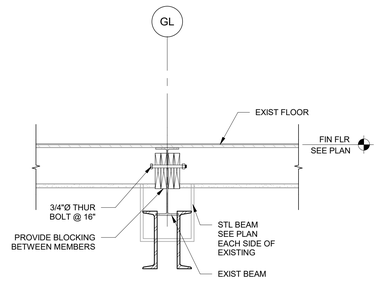
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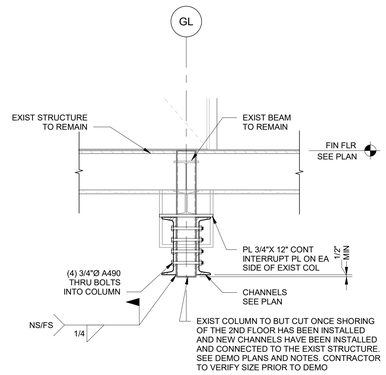
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S3.5



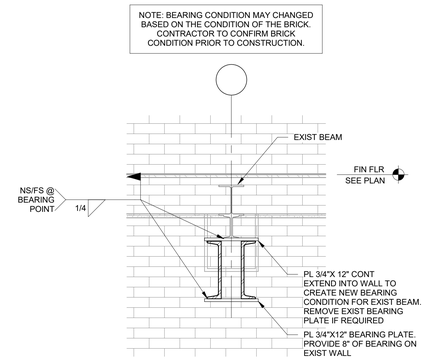
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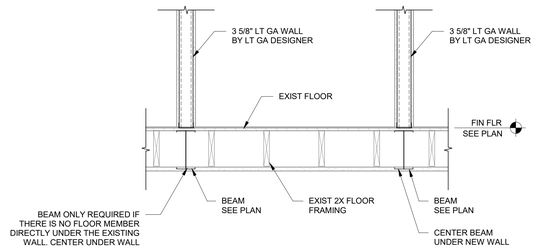
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3/4" = 1'-0"



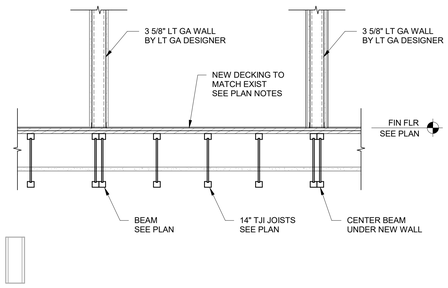
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3/4" = 1'-0"



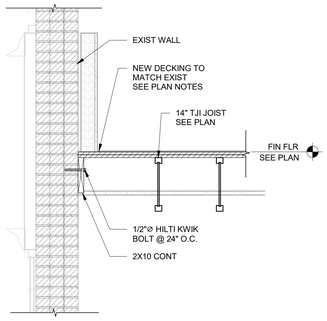
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3/4" = 1'-0"



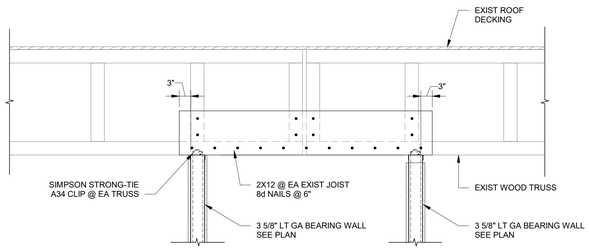
5 S3.6 SECTION
3/4" = 1'-0"



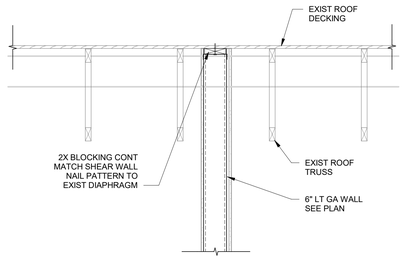
6 S3.6 SECTION
3/4" = 1'-0"



7 S3.6 SECTION
3/4" = 1'-0"



8 S3.6 SECTION
3/4" = 1'-0"



9 S3.6 SECTION
3/4" = 1'-0"

WDD ARCHITECTS
ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 10449 PATRICIA M. PAGNOTTE
06-09-2026

PROJECT TITLE
ST JOHNS CENTER
BYRNE HALL RENOVATION
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S3.6

CERTIFICATE OF AUTHORIZATION
LIVE OAK ENGINEERING, INC. No. 1672
ARKANSAS ENGINEER
LIVE OAK ENGINEERING
2509 7th AVENUE SOUTH
BIRMINGHAM, AL 35233
205.637.3115
AR COA#: 1672
LOE PROJECT #: 294-6

HVAC GENERAL DEMOLITION NOTES

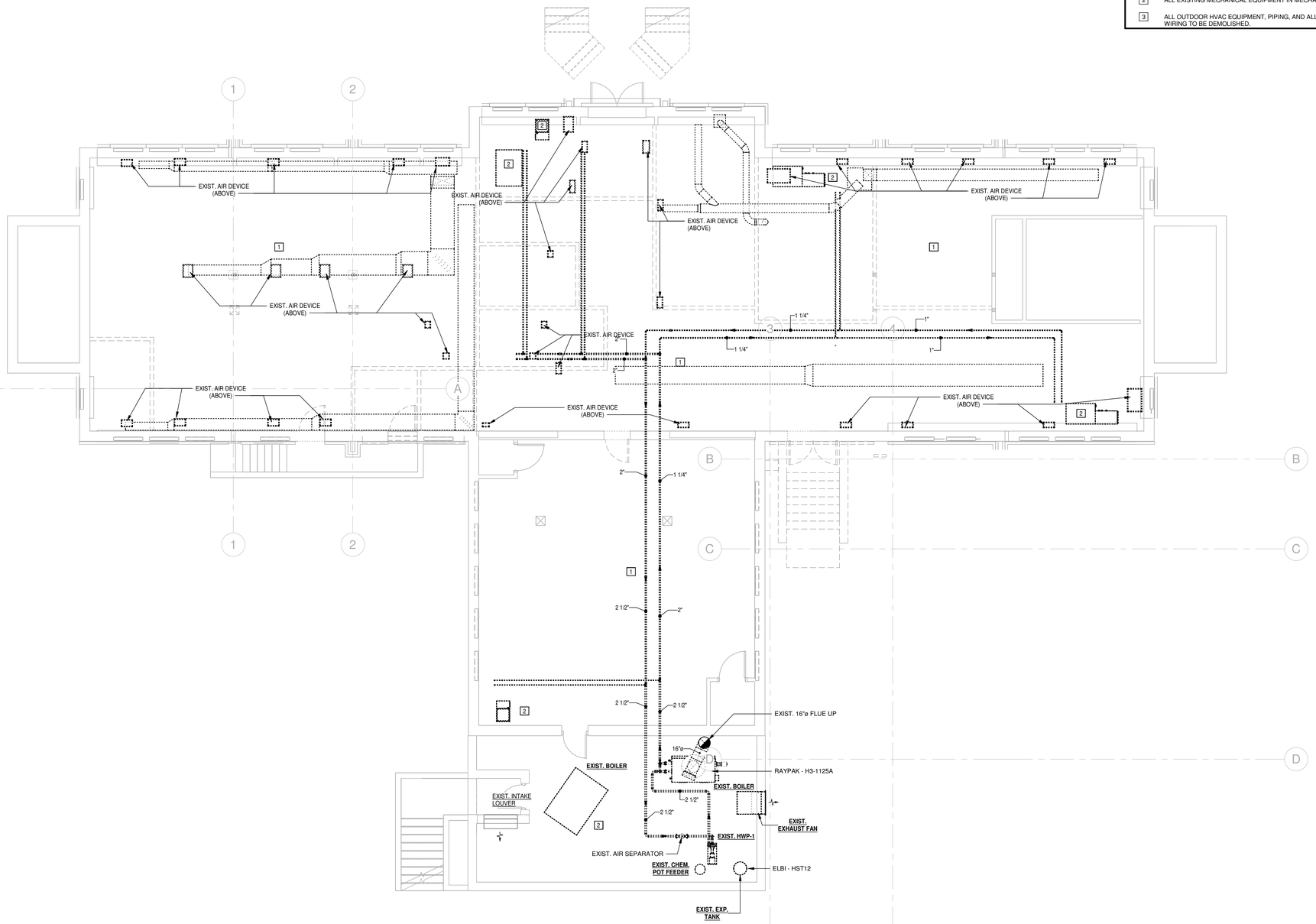
1. ALL LIGHTER SOLID LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO REMAIN.
2. ALL DARKER DASHED LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO BE REMOVED.
3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN THAT ARE TO BE CONNECTED TO.
4. SEE ARCHITECTURAL PLANS FOR REMOVAL AND REPLACEMENT OF CEILINGS.

HVAC DEMOLITION KEYED NOTES

[1] ALL EXISTING HVAC EQUIPMENT, DUCTWORK, AIR DEVICES, PIPING, AND ALL ASSOCIATED CONTROL DEVICES TO BE DEMOLISHED.

[2] ALL EXISTING MECHANICAL EQUIPMENT IN MECHANICAL ROOM TO BE DEMOLISHED.

[3] ALL OUTDOOR HVAC EQUIPMENT, PIPING, AND ALL ASSOCIATED CONTROL DEVICE / WIRING TO BE DEMOLISHED.



1 **DEMOLITION PLAN -HVAC**
3/16" = 1'-0"

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BASEMENT DEMOLITION PLAN - HVAC

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STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.11043 MARCUS D. CATHEY 12/4/25

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HVAC GENERAL DEMOLITION NOTES

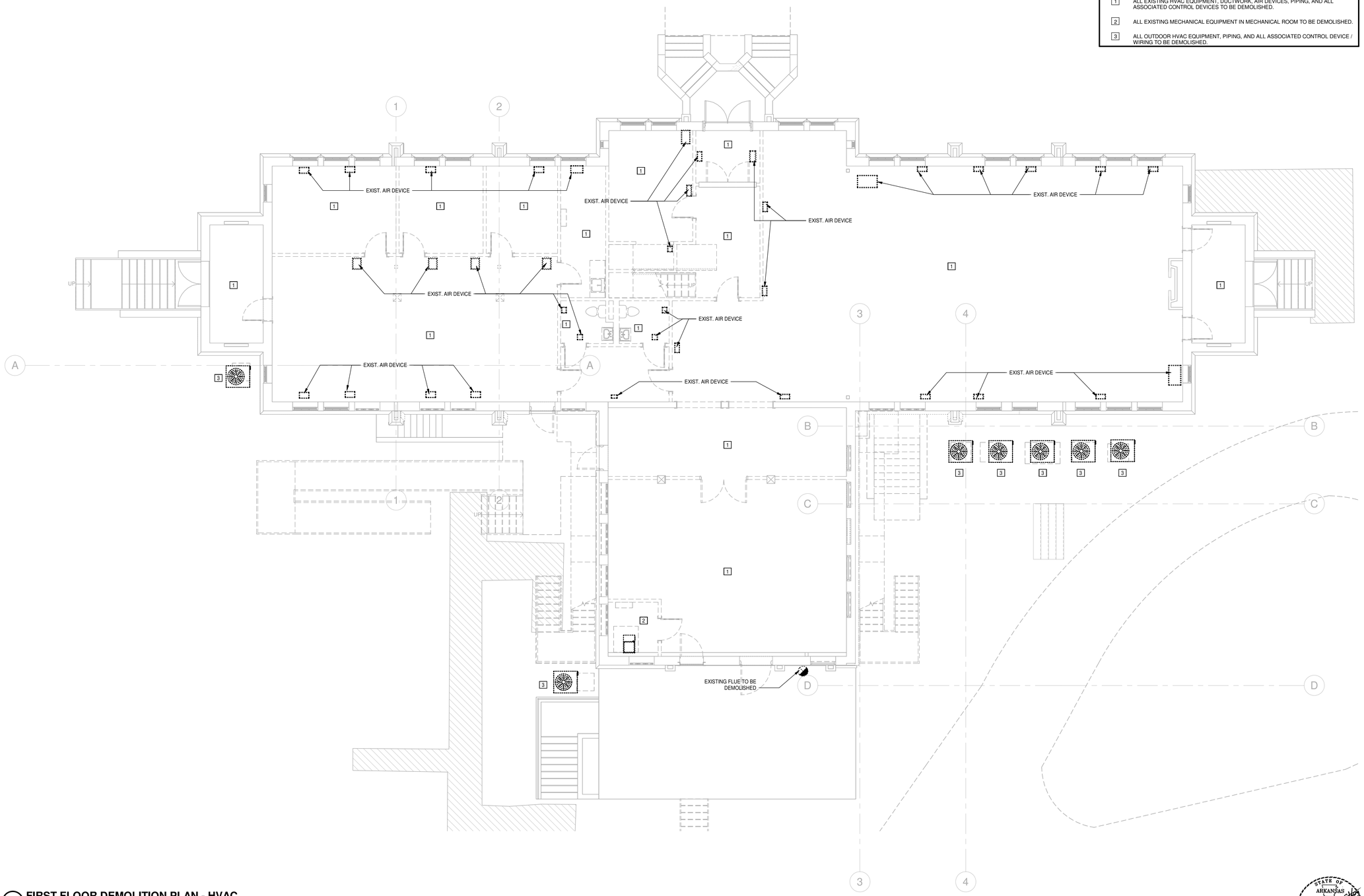
1. ALL LIGHTER SOLID LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO REMAIN.
2. ALL DARKER DASHED LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO BE REMOVED.
3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN THAT ARE TO BE CONNECTED TO.
4. SEE ARCHITECTURAL PLANS FOR REMOVAL AND REPLACEMENT OF CEILINGS.

HVAC DEMOLITION KEYED NOTES

[1] ALL EXISTING HVAC EQUIPMENT, DUCTWORK, AIR DEVICES, PIPING, AND ALL ASSOCIATED CONTROL DEVICES TO BE DEMOLISHED.

[2] ALL EXISTING MECHANICAL EQUIPMENT IN MECHANICAL ROOM TO BE DEMOLISHED.

[3] ALL OUTDOOR HVAC EQUIPMENT, PIPING, AND ALL ASSOCIATED CONTROL DEVICE / WIRING TO BE DEMOLISHED.



1 **FIRST FLOOR DEMOLITION PLAN - HVAC**
3/16" = 1'-0"

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.11043 LOGAN D. CATHEY

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FIRST FLOOR DEMOLITION PLAN - HVAC

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HVAC GENERAL DEMOLITION NOTES

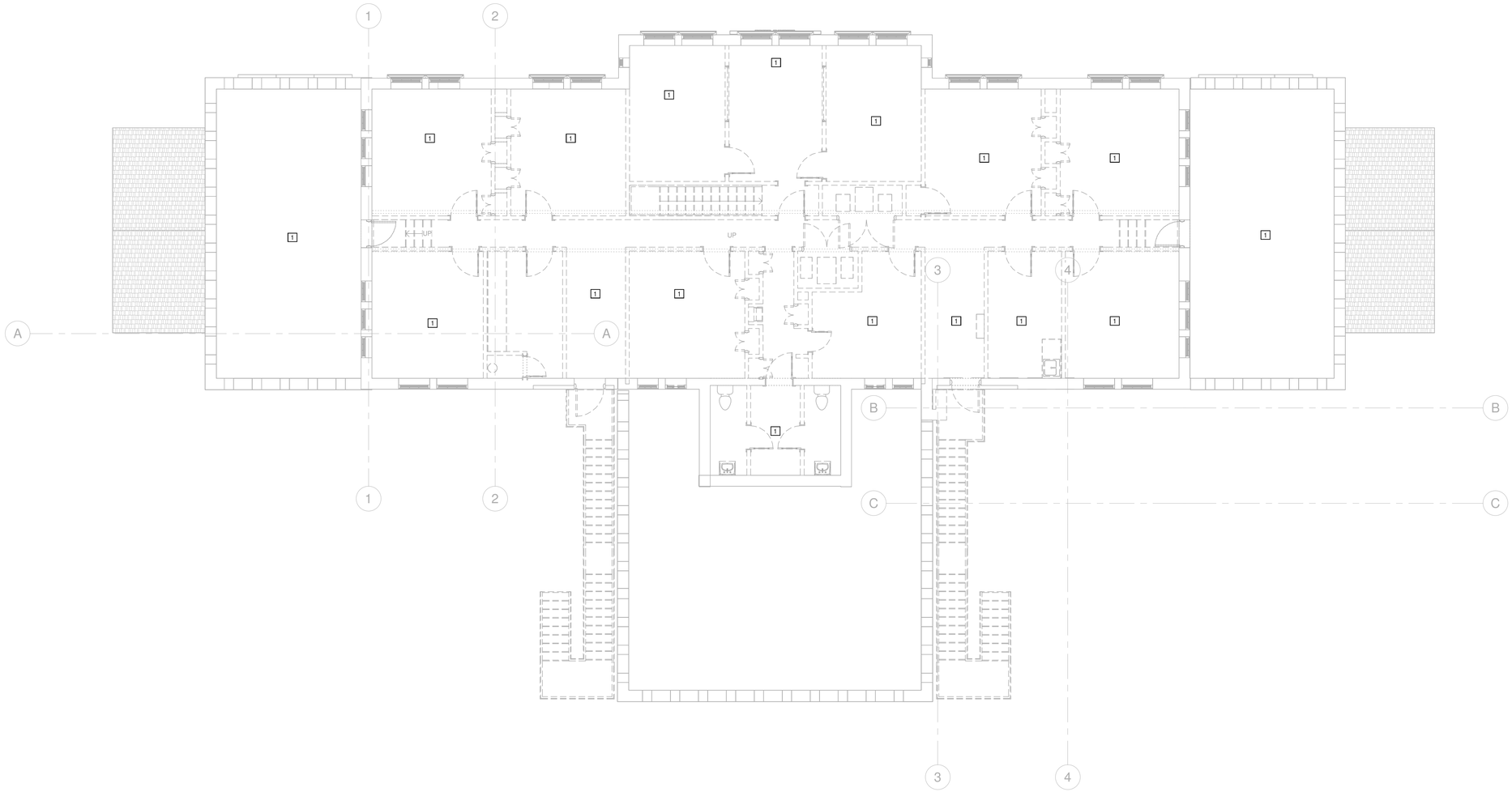
1. ALL LIGHTER SOLID LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO REMAIN.
2. ALL DARKER DASHED LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO BE REMOVED.
3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN THAT ARE TO BE CONNECTED TO.
4. SEE ARCHITECTURAL PLANS FOR REMOVAL AND REPLACEMENT OF CEILINGS.

HVAC DEMOLITION KEYED NOTES

[1] ALL EXISTING HVAC EQUIPMENT, DUCTWORK, AIR DEVICES, PIPING, AND ALL ASSOCIATED CONTROL DEVICES TO BE DEMOLISHED.

[2] ALL EXISTING MECHANICAL EQUIPMENT IN MECHANICAL ROOM TO BE DEMOLISHED.

[3] ALL OUTDOOR HVAC EQUIPMENT, PIPING, AND ALL ASSOCIATED CONTROL DEVICE / WIRING TO BE DEMOLISHED.



1 **SECOND FLOOR DEMOLITION PLAN - HVAC**
3/16" = 1'-0"

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 11043
MARCUS D. CATHEY

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SECOND FLOOR DEMOLITION PLAN - HVAC

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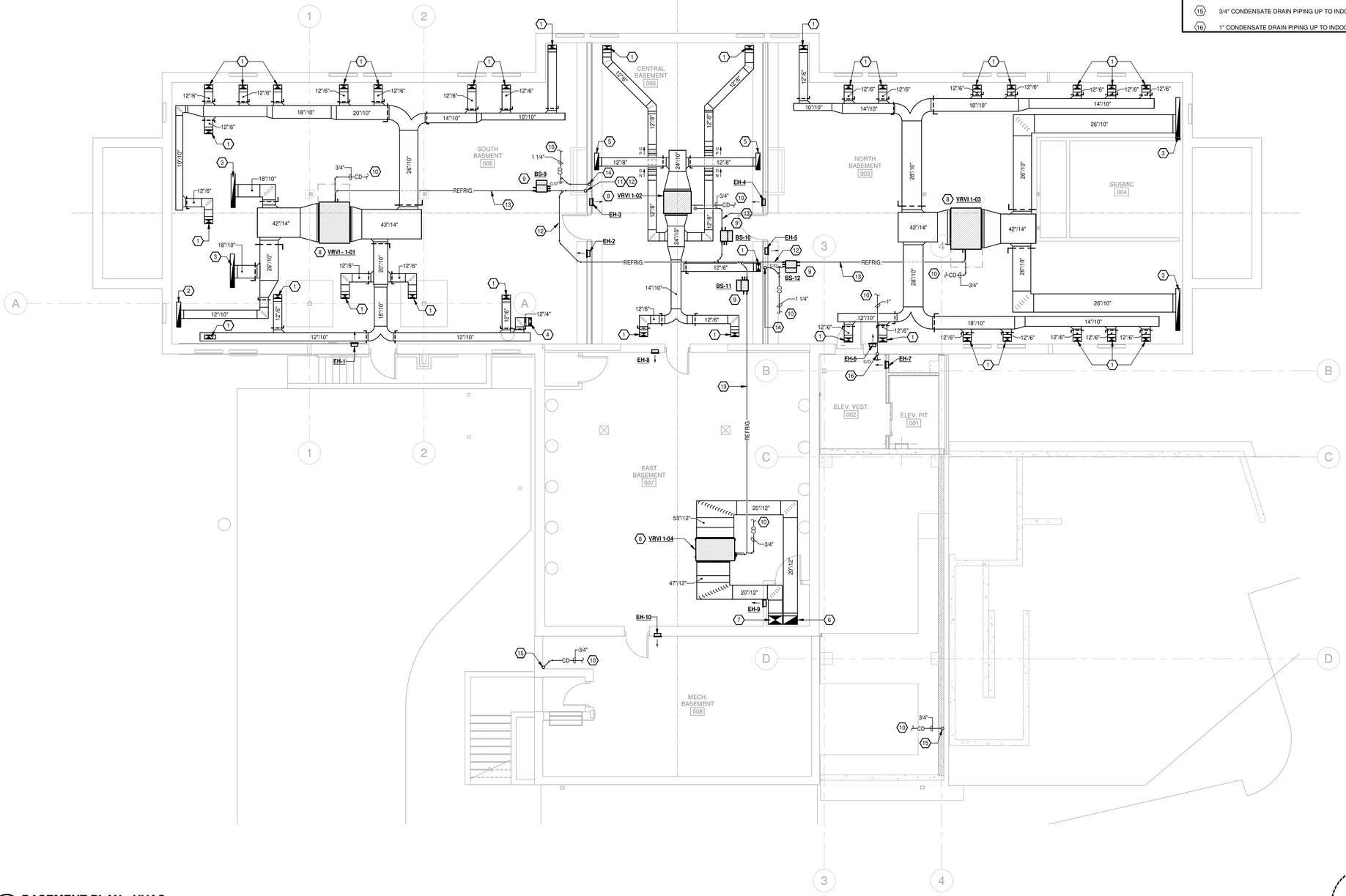
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HVAC GENERAL NOTES

1. ALL LIGHTER SOLID LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO REMAIN.
2. ALL DARKER SOLID LINES REPRESENT NEW PIPING, DUCTWORK, EQUIPMENT, ETC.
3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN THAT ARE TO BE CONNECTED TO.
4. COORD. EXACT ROUTING OF DUCTWORK WITH EXISTING UTILITIES AND ARCHITECT'S PLANS.
5. CONTRACTOR SHALL FIELD COORDINATE EXACT PIPING SIZES REQUIRED WITH THE EQUIPMENT MANUFACTURE. VERIFY EXACT PIPING LENGTH'S AND ROUTING REQUIRED.

HVAC KEYED NOTES - M1.00

1. 12"/6" S.A. DUCT UP TO FLOOR GRILLE ABOVE.
2. 36"/6" R.A. DUCT UP TO FLOOR GRILLE ABOVE
3. 60"/6" R.A. DUCT UP TO FLOOR GRILLE ABOVE
4. 12"/4" S.A. DUCT UP TO FLOOR GRILLE ABOVE.
5. 24"/6" R.A. DUCT UP TO FLOOR GRILLE ABOVE.
6. 22"/12" R.A. DUCT UP TO FIRST FLOOR. COORD. EXACT LOCATION OF RETURN AIR DUCT IN JANITOR'S CLOSET ABOVE.
7. 20"/12" S.A. DUCT UP TO FIRST FLOOR. COORD. EXACT LOCATION OF RETURN AIR DUCT IN JANITOR'S CLOSET ABOVE.
8. VRV AIR HANDLING UNIT MOUNTED HIGH IN SPACE. COORD. EXACT LOCATION WITH STRUCTURE ABOVE.
9. VRV BRANCH SELECTOR BOXES MOUNTED HIGH IN SPACE. COORD. EXACT LOCATION WITH STRUCTURE AND MANUFACTURE'S RECOMMENDATIONS.
10. ROUTE FULL SIZE CONDENSATE DOWN TO NEAREST STORM DRAIN. PROVIDE CLEANOUTS AT UNIT'S TRAP AND ALL 90 DEGREE TURNS.
11. VRV REFRIGERATION PIPING UP IN CHASE.
12. REFRIGERANT PIPING BETWEEN OUTDOOR UNIT AND BRANCH SELECTOR BOX (BS) SHOWN AS ONE PIPE. ACTUAL NUMBER OF PIPES ARE THREE. PROVIDE AND INSTALL SERVICE ISOLATION VALVES IN EACH PIPE. SEE SPECIFICATIONS FOR FLEXIBLE COPPER REFRIGERANT PIPING AND INSULATION.
13. REFRIGERANT PIPING BETWEEN BRANCH SELECTOR BOX (BS) AND INDOOR EVAPORATIVE UNIT SHOWN AS ONE PIPE. ACTUAL NUMBER OF PIPES TO BE TWO. PROVIDE AND INSTALL SERVICE ISOLATION VALVES IN EACH PIPE. SEE SPECIFICATIONS FOR FLEXIBLE COPPER TUBING AND INSULATION.
14. 1-1/4 INCH CONDENSATE DRAIN PIPING UP IN CHASE TO SERVE FLOORS ABOVE.
15. 3/4" CONDENSATE DRAIN PIPING UP TO INDOOR UNIT ABOVE.
16. 1" CONDENSATE DRAIN PIPING UP TO INDOOR UNIT ABOVE.



1 **BASEMENT PLAN - HVAC**
3/16" = 1'-0"

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.11043 MARCUS D. CASTLE
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BASEMENT PLAN - HVAC

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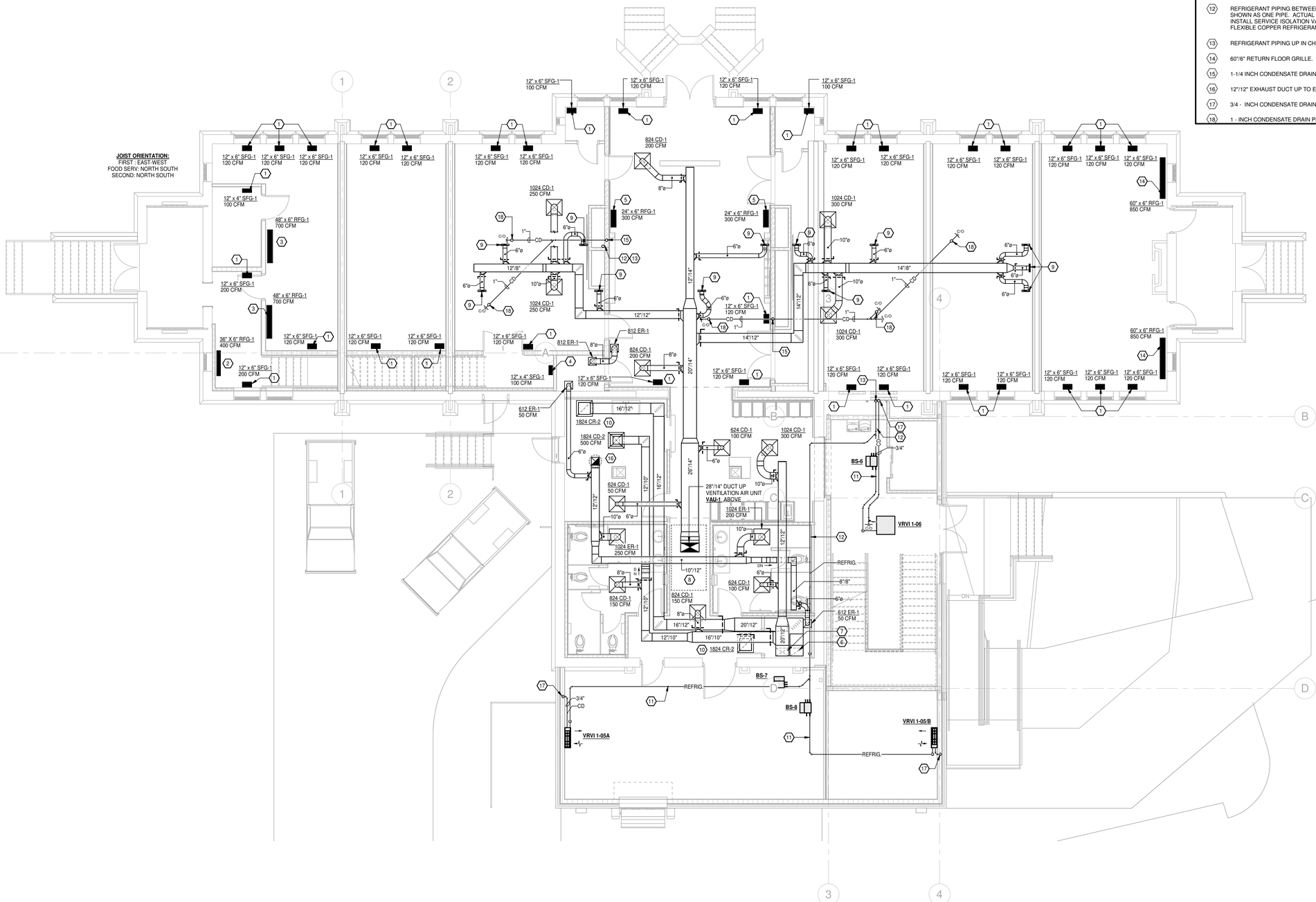
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HVAC GENERAL NOTES

1. ALL LIGHTER SOLID LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO REMAIN.
2. ALL DARKER SOLID LINES REPRESENT NEW PIPING, DUCTWORK, EQUIPMENT, ETC.
3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN THAT ARE TO BE CONNECTED TO.
4. COORD. EXACT ROUTING OF DUCTWORK WITH EXISTING UTILITIES AND ARCHITECT'S PLANS.
5. CONTRACTOR SHALL FIELD COORDINATE EXACT PIPING SIZES REQUIRED WITH THE EQUIPMENT MANUFACTURE. VERIFY EXACT PIPING LENGTH'S AND ROUTING REQUIRED.

HVAC KEYED NOTES - M1.01

1. 12"/6" SUPPLY FLOOR GRILLE. SUPPLY AIR DUCTED UP FROM BASEMENT BELOW.
2. 36"/6" RETURN FLOOR GRILLE. RETURN AIR DUCTED UP FROM BASEMENT BELOW.
3. 48"/6" RETURN FLOOR GRILLE. RETURN AIR DUCTED UP FROM BASEMENT BELOW.
4. 12"/4" SUPPLY FLOOR GRILLE. SUPPLY AIR DUCTED UP FROM BASEMENT BELOW.
5. 24"/6" RETURN FLOOR GRILLE. RETURN AIR DUCTED FROM BASEMENT BELOW.
6. 20"/12" R.A. DUCT UP FROM BASEMENT BELOW. COORD. EXACT LOCATION OF RETURN AIR DUCT IN JANITOR'S CLOSET.
7. 20"/12" S.A. DUCT UP TO BASEMENT BELOW. COORD. EXACT LOCATION OF RETURN AIR DUCT IN JANITOR'S CLOSET.
8. VENTILATION AIR UNIT (VAU-1) ABOVE. COORD. EXACT LOCATION OF SUPPLY DUCT PENETRATION WITH STRUCTURE ABOVE.
9. VENTILATION AIR PLENUM (FULL SIZE) UP TO FLOOR GRILLE ABOVE. COORD. EXACT LOCATION OF FLOOR GRILLE AND DUCT WITH STRUCTURE.
10. ROUTE FULL SIZE CONDENSATE DOWN TO NEAREST STORM DRAIN. PROVIDE CLEANOUTS AT UNIT'S TRAP AND ALL 90 DEGREE TURNS.
11. REFRIGERANT PIPING BETWEEN BRANCH SELECTOR BOX (BS) AND INDOOR EVAPORATIVE UNIT SHOWN AS ONE PIPE. ACTUAL NUMBER OF PIPES TO BE TWO. PROVIDE AND INSTALL SERVICE ISOLATION VALVES IN EACH PIPE. SEE SPECIFICATIONS FOR FLEXIBLE COPPER TUBING AND INSULATION
12. REFRIGERANT PIPING BETWEEN OUTDOOR UNIT AND BRANCH SELECTOR BOX (BS) SHOWN AS ONE PIPE. ACTUAL NUMBER OF PIPES ARE THREE. PROVIDE AND INSTALL SERVICE ISOLATION VALVES IN EACH PIPE. SEE SPECIFICATIONS FOR FLEXIBLE COPPER REFRIGERANT PIPING AND INSULATIO
13. REFRIGERANT PIPING UP IN CHASE.
14. 60"/6" RETURN FLOOR GRILLE. RETURN AIR DUCTED UP FROM BASEMENT BELOW.
15. 1-1/4 INCH CONDENSATE DRAIN PIPING DOWN IN CHASE.
16. 12"/12" EXHAUST DUCT UP TO EXHAUST FAN (EF-1) ON ROOF.
17. 3/4 - INCH CONDENSATE DRAIN PIPING DOWN IN WALL.
18. 1 - INCH CONDENSATE DRAIN PIPING UP IN WALL ABOVE.



1 **FIRST FLOOR PLAN - HVAC**
3/16" = 1'-0"

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No.11043
MARCUS D. CASTLE
CORPORATE REGISTRATION
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FIRST FLOOR PLAN - HVAC

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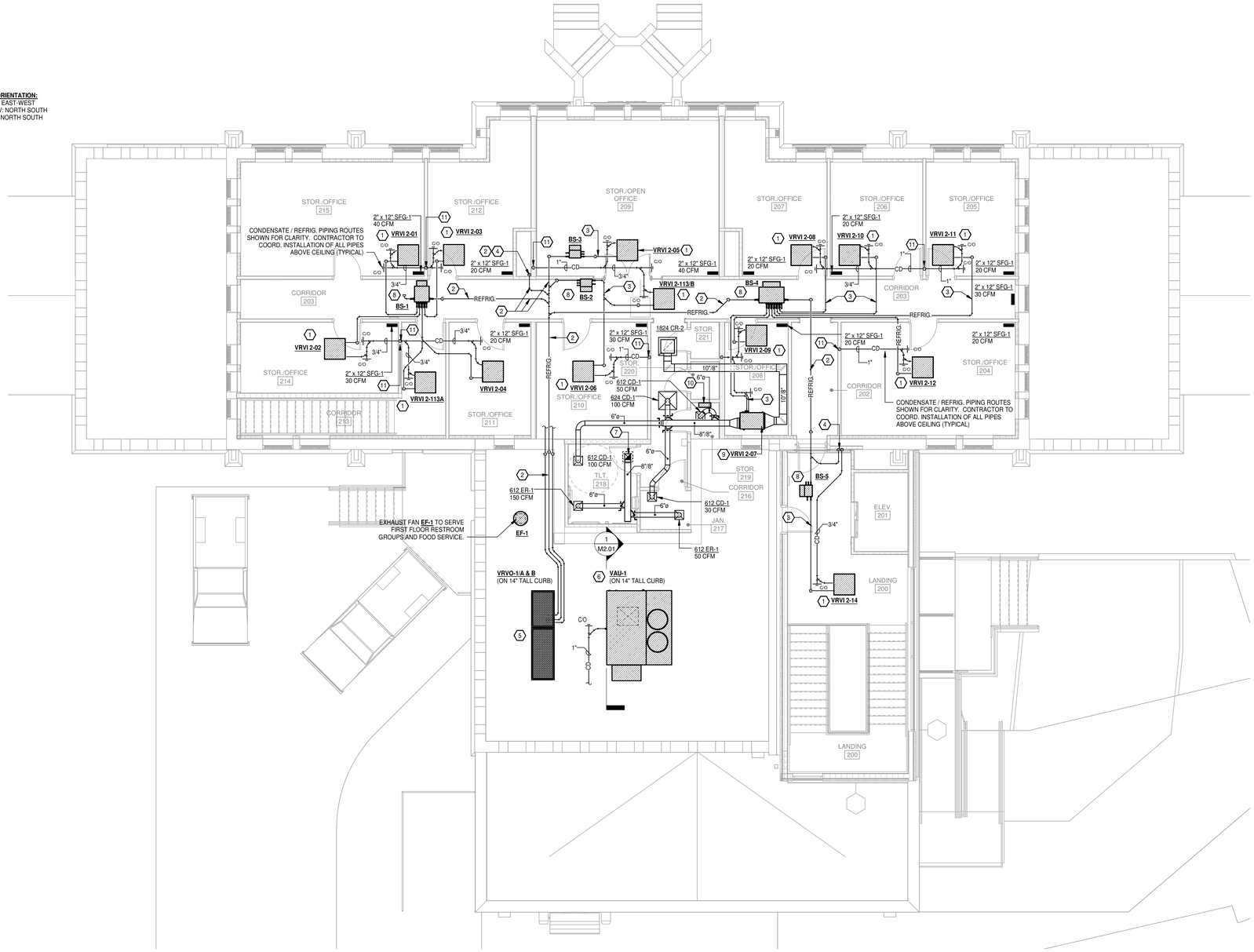
HVAC GENERAL NOTES

1. ALL LIGHTER SOLID LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO REMAIN.
2. ALL DARKER SOLID LINES REPRESENT NEW PIPING, DUCTWORK, EQUIPMENT, ETC.
3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN THAT ARE TO BE CONNECTED TO.
4. COORD. EXACT ROUTING OF DUCTWORK WITH EXISTING UTILITIES AND ARCHITECT'S PLANS.
5. CONTRACTOR SHALL FIELD COORDINATE EXACT PIPING SIZES REQUIRED WITH THE EQUIPMENT MANUFACTURE. VERIFY EXACT PIPING LENGTH'S AND ROUTING REQUIRED.

HVAC KEYED NOTES - M1.02

1. VRV AIR HANDLING UNIT MOUNTED IN CEILING GRID. COORD. EXACT LOCATION WITH ARCH'S RCP.
2. REFRIGERANT PIPING BETWEEN OUTDOOR UNIT AND BRANCH SELECTOR BOX (BS) SHOWN AS ONE PIPE. ACTUAL NUMBER OF PIPES ARE THREE. PROVIDE AND INSTALL SERVICE ISOLATION VALVES IN EACH PIPE. SEE SPECIFICATIONS FOR FLEXIBLE COPPER REFRIGERANT PIPING AND INSULATION.
3. REFRIGERANT PIPING BETWEEN BRANCH SELECTOR BOX (BS) AND INDOOR EVAPORATIVE UNIT SHOWN AS ONE PIPE. ACTUAL NUMBER OF PIPES TO BE TWO. PROVIDE AND INSTALL SERVICE ISOLATION VALVES IN EACH PIPE. SEE SPECIFICATIONS FOR FLEXIBLE COPPER TUBING AND INSULATION
4. REFRIGERANT PIPING (THREE TOTAL) DOWN IN CHASE.
5. VRV OUTDOOR UNIT (VRVO-1/A & VRVO-1/B) W/ 14" TALL EQUIPMENT CURB.
6. VENTILATION AIR UNIT (VAU-1) ON 14" TALL EQUIPMENT CURB. COORD. EXACT LOCATION OF DUCT PENETRATION WITH STRUCTURE. ROUTE FULL SIZE CONDENSATE DRAIN TO NEAREST ROOF DRAIN. SEE PLUMBING SHEETS FOR CONECTION OF NATURAL GAS.
7. 8"/8" EXHAUST DUCT UP TO EXHAUST FAN (EF-2) ON ROOF.
8. VRV BRANCH SELECTOR BOXES MOUNTED HIGH IN SPACE. CAP ALL EXCESS PORTS AS REQ'D. COORD. EXACT LOCATION WITH STRUCTURE AND MANUFACTURE'S RECOMENDATIONS.
9. VRV AIR HANDLING UNIT MOUNTED HIGH IN SPACE. COORD. EXACT LOCATION WITH STRUCTURE ABOVE.
10. HVAC CONTROLS PANEL. COORD. INSTALLATION WITH CONTROLS CONTRACTOR.
11. 1-1/4 INCH CONDENSATE DRAIN PIPING DOWN IN CHASE.

JOIST ORIENTATION:
FIRST : EAST-WEST
FOOD SERV: NORTH SOUTH
SECOND: NORTH SOUTH



1 **SECOND FLOOR PLAN - HVAC**
3/16" = 1'-0"

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.11043 LARGUS D. CATHEY
CORPORATE REGISTRATION PETTIT & PETTIT CONSULTING ENGINEERS, INC. No. 78 ARKANSAS ENGINEER
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WDD ARCHITECTS

ST JOHNS CENTER
BYRNE HALL RENOVATION
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SECOND FLOOR PLAN - HVAC

NO.	DATE	DESCRIPTION

25-043

6-9-26

100% CONSTRUCTION DOCUMENTS

ISSUE

M1.02

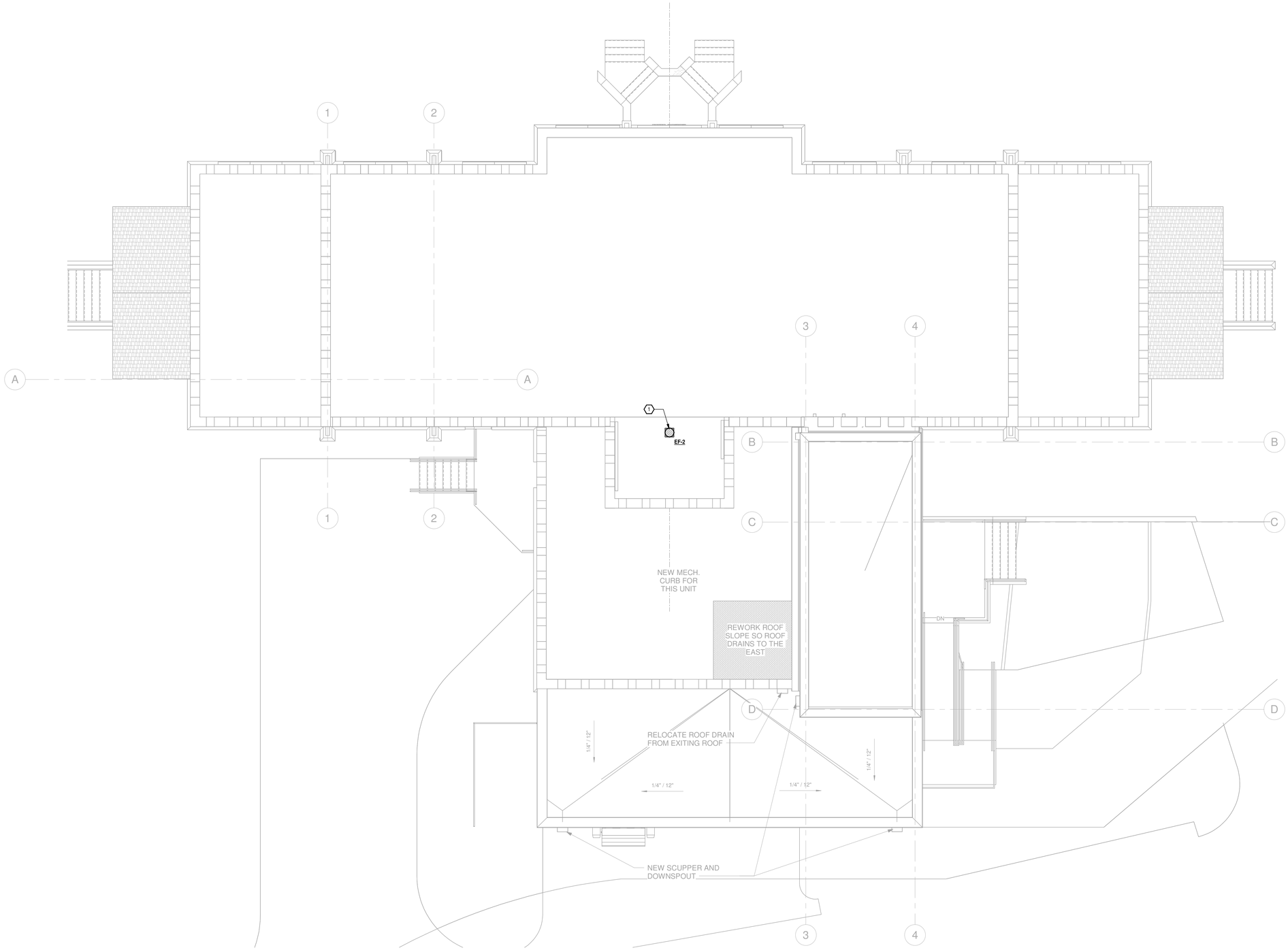
Autodesk Docs://St Johns Byrne Hall Renovations #25-113 Byrne Hall Renovations (PEP) Pettit Central.rvt
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HVAC GENERAL NOTES

1. ALL LIGHTER SOLID LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO REMAIN.
2. ALL DARKER SOLID LINES REPRESENT NEW PIPING, DUCTWORK, EQUIPMENT, ETC.
3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN THAT ARE TO BE CONNECTED TO.
4. COORD. EXACT ROUTING OF DUCTWORK WITH EXISTING UTILITIES AND ARCHITECT'S PLANS.
5. CONTRACTOR SHALL FIELD COORDINATE EXACT PIPING SIZES REQUIRED WITH THE EQUIPMENT MANUFACTURE. VERIFY EXACT PIPING LENGTH'S AND ROUTING REQUIRED.

HVAC KEYED NOTES - M1.03

(1) EXHAUST FAN (EF-2) INSTALLED ON 14-INCH TALL ROOF CURB. CONTRACTOR TO COORD. FAN PLACEMENT AND DUCT PENETRATION WITH STRUCTURE BELOW.



1 **ROOF PLAN - HVAC**
3/16" = 1'-0"

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.11043 MARCUS D. CASTLE 12/31/25

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ROOF PLAN - HVAC

NO.	DATE	DESCRIPTION

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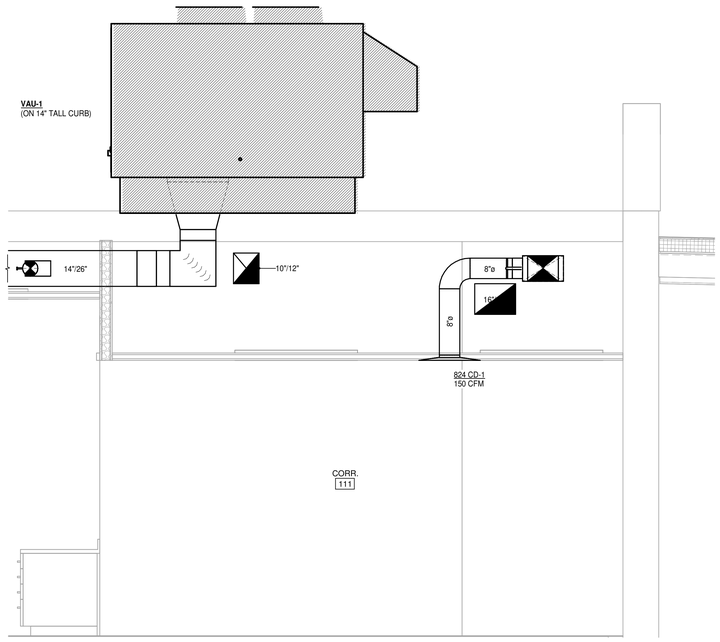
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M1.03

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1 **HVAC SECTION - VAU-1**
1/2" = 1'-0"

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MARCUS D. CAUFIELD
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HVAC SECTIONS

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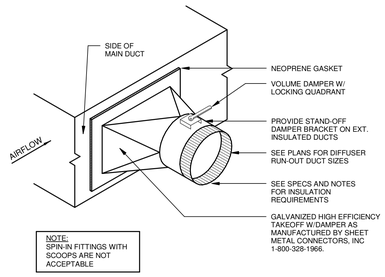
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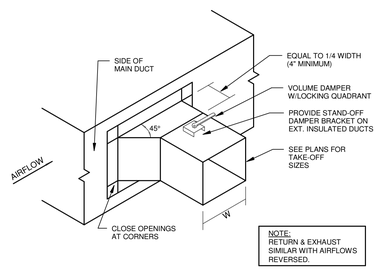
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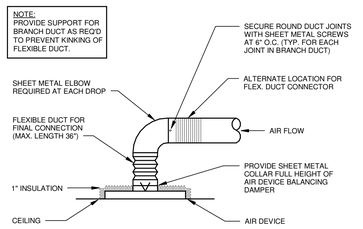
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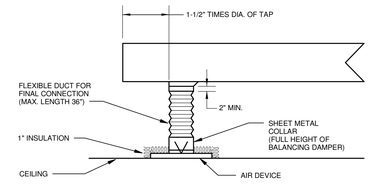
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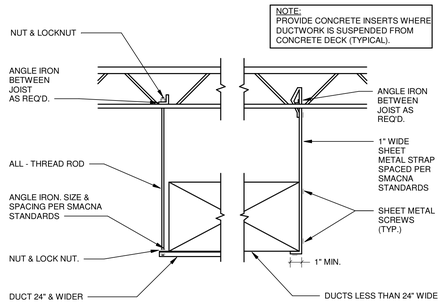
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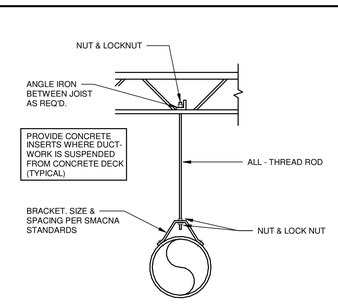
3 DIFFUSER CONNECTION DETAIL
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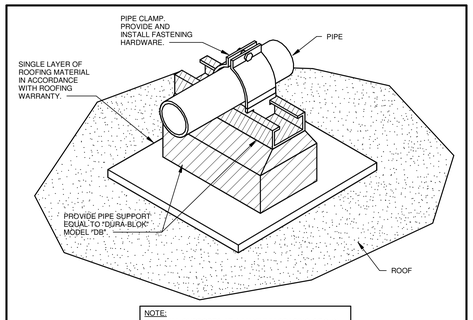
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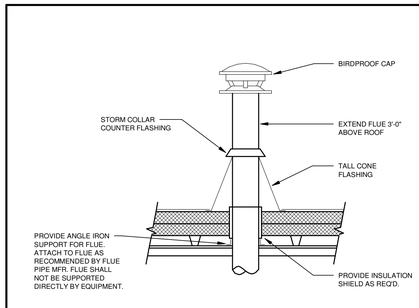
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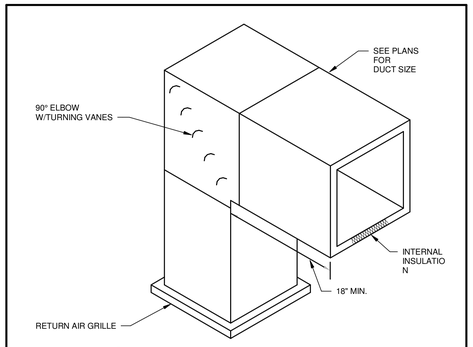
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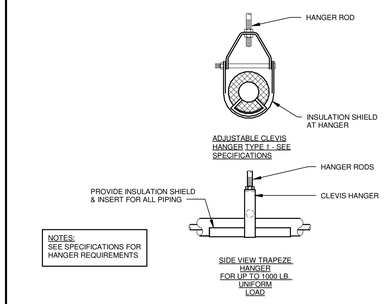
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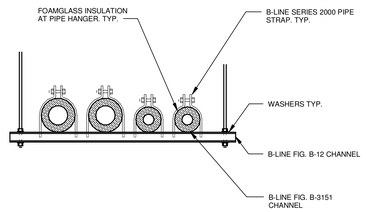
8 TYPICAL FLUE DETAIL
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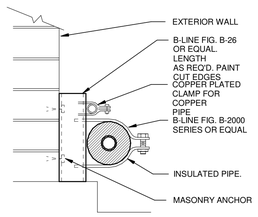
9 TRANSFER DUCT DETAIL
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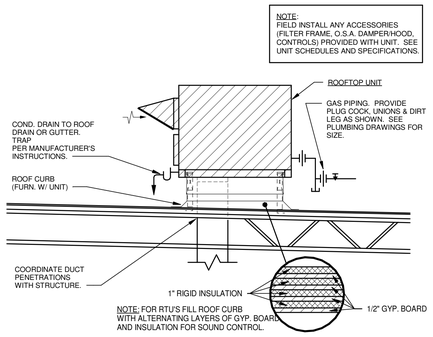
10 PIPING HANGER DETAIL
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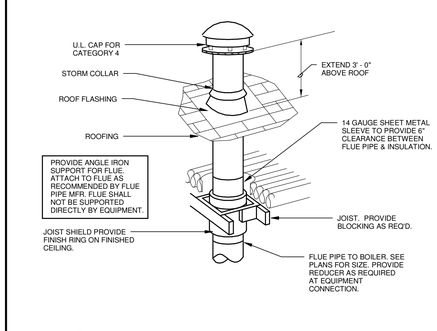
11 PIPING SUPPORT DETAIL
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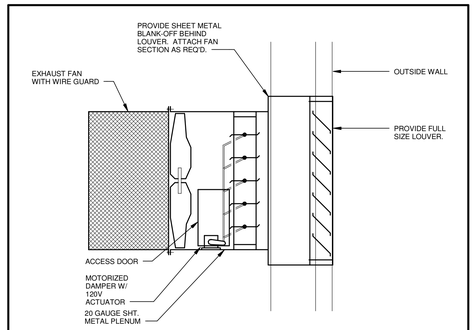
12 REFRIGERANT PIPE SUPPORT DETAIL
N.T.S.



13 ROOFTOP UNIT INSTALLATION DETAIL
N.T.S.



14 TYPICAL BOILER FLUE DETAIL
N.T.S.



15 WALL FAN DETAIL
N.T.S.

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No. 11043
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HVAC DETAILS

NO.	DATE	DESCRIPTION

25-043

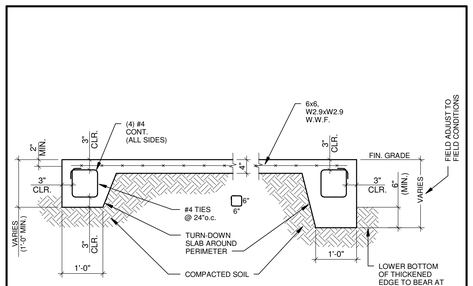
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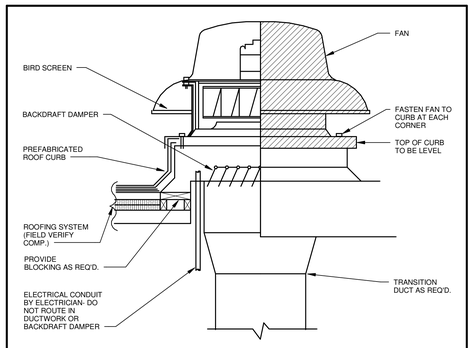
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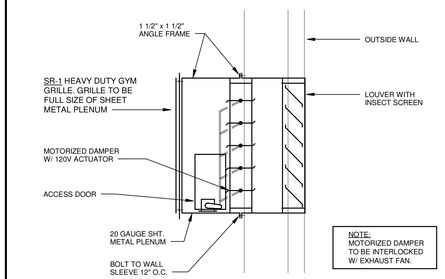
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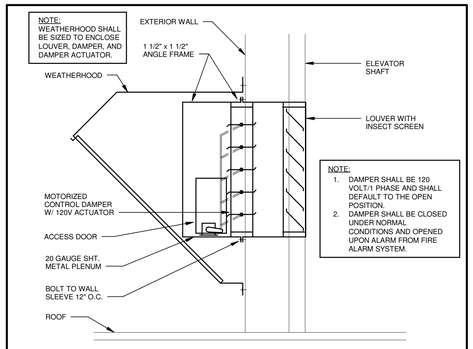
1 EQUIPMENT PAD DETAIL
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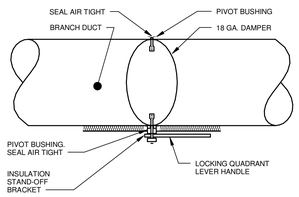
2 EXHAUST FAN DETAIL
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3 INTAKE LOUVER DETAIL
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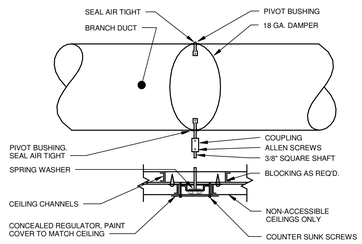


4 INTAKE LOUVER DETAIL
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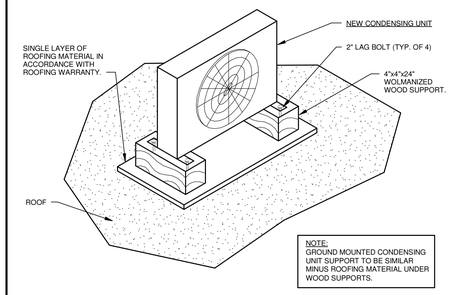
ABOVE ACCESSIBLE CEILINGS

5 MANUAL DAMPER OPERATOR DETAIL
N.T.S.



ABOVE NON-ACCESSIBLE CEILINGS

6 MANUAL DAMPER OPERATOR DETAIL
N.T.S.



7 MINI-SPLIT CONDENSING UNIT ROOF SUPPORT DETAIL
N.T.S.

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.11043 MARCUS D. CATHEY 6/1/26

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WDD ARCHITECTS

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HVAC DETAILS

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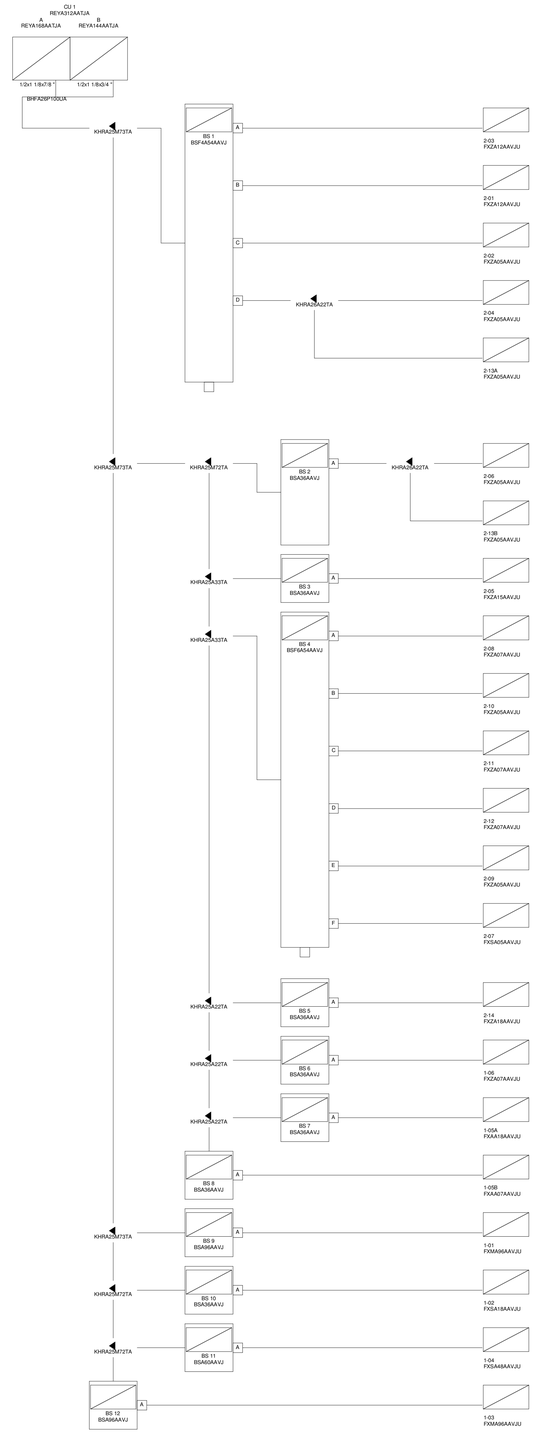
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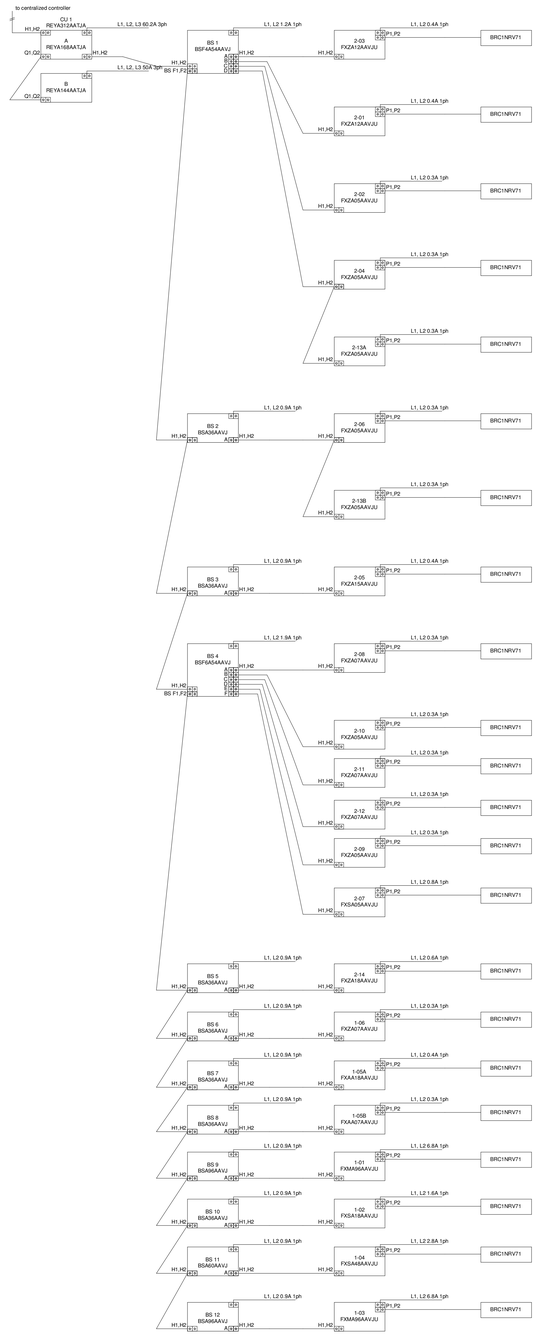
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VRF CONDENSING UNIT (VRVO-1)

PIPING DIAGRAM



WIRING DIAGRAM



HVAC CONTRACTOR NOTE

CONTRACTOR SHALL FIELD COORDINATE EXACT PIPING SIZES REQUIRED WITH THE EQUIPMENT MANUFACTURE. VERIFY EXACT PIPING LENGTH'S AND ROUTING REQUIRED.

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PACKAGED VENTILATION AIR HANDLING UNIT SCHEDULE

DESIG.	MFR/MDL	SERVES	EXH.	OSA	ESP/TSP	COOLING						HEATING						HGRH CAPACITY	UNIT MOTOR DATA						UNIT SUPPLY FAN DATA				UNIT EXHAUST FAN DATA				ELECTRICAL DATA			REMARKS
						TOTAL	SENS	COIL EAT	COIL LAT	ERV EAT	AMBIENT	FUEL	INPUT	OUTPUT	EAT/LAT	ERV EAT			COMPRESSOR RLA	COMPRESSOR NO.	COND. FAN FLA	COND. FAN NO.	WHEEL FLA	WHEEL NO.	CFM	ESP/TSP	BHP	HP	CFM	ESP/TSP	BHP	HP	V/P	MCA	MOCP	
VAU-1	VALENT / VX-112-1SI-G-E2	---	---	2,000	1.0"/1.3" SUP. ---"/---" EXH.	193.0	94.5	100.0° d.b. 81.0° w.b.	52.7° d.b. 52.3° w.b.	---° d.b. ---° w.b.	---	NATURAL GAS	200.0 MBH	162.0 MBH	16.0°/90.9°	---° db ---° wb	78.7 MBH	55.7	1.0	---	---	---	---	2,000	1.0 / 1.3	0.68	1.0	---	---"/---"	--	---	208 / 3ø	84.9	125.0	UNIT PROVIDED W/ 24" CURB WITH HORIZONTAL DUCT CONNECTIONS, HOT GAS RE-HEAT, STAINLESS STEEL H.X., H.G. BYPASS, 2" FILTERS, HUMIDITY SENSOR & DEHUMIDIFICATION CONTROLS. VARIABLE CAPACITY COMPRESSOR. (SEE SPECIFICATIONS)

VRV CONDENSING UNIT SCHEDULE

DESIG.	MFR/MDL	TYPE	SERVES	DIMENSIONS (W x H x D)	WEIGHT	COOLING			HEATING			FAN DATA			COMPRESSOR		ELECTRICAL DATA				REMARKS
						CAPACITY	INDOOR	OUTDOOR	CAPACITY	INDOOR	OUTDOOR	TYPE / QUANTITY	CFM	KW	TYPE	RANGE	RLA	MCA	MOCP	V / PH.	
VRVO-1/A	DAIKIN / REYA168AATJA	AIR COOLED HEAT RECOVERY	BS (1-12)	65 3/8" x 48 13/16" x 30.1/8"	827 LBS.	162.0 MBH	80° d.b. 67° w.b.	95° d.b. 75° w.b.	189.0 MBH	70° d.b. 60° w.b.	16° d.b. 15.2° w.b.	DIRECT DRIVE PROP / QTY OF 2	9,675	0.65 ; 0.65	INVERTER	35-100%	---	60.2	70	208v / 3 ø	PROVIDE CONDENSER COIL GUARDS, VIBRATION ISO. , BACNET INTERFACE, AND LOW AMBIENT CONTROLS
VRVO-1/B	DAIKIN / REYA144AATJA	AIR COOLED HEAT RECOVERY	BS (1-12)	65 3/8" x 48 13/16" x 30.1/8"	825 LBS.	144.0 MBH	80° d.b. 67° w.b.	95° d.b. 75° w.b.	162.0 MBH	70° d.b. 60° w.b.	16° d.b. 15.2° w.b.	DIRECT DRIVE PROP / QTY OF 2	9,675	0.65 ; 0.65	INVERTER	35-100%	---	50	60	208v / 3 ø	PROVIDE CONDENSER COIL GUARDS, VIBRATION ISO. , BACNET INTERFACE, AND LOW AMBIENT CONTROLS

VRV INDOOR UNIT SCHEDULE

DESIG.	MFR/MDL	TYPE	SERVES	CFM (WET)	OSA	ESP	CONDENSING UNIT	BRANCH SELECTOR	DIMENSIONS (H x W x D)	LBS	COOLING			HEATING			REFRIGERANT PIPE SIZE		ELECTRICAL DATA			REMARKS
											CAPACITY	INDOOR	OUTDOOR	CAPACITY	INDOOR	OUTDOOR	GAS	LIQUID	MCA	MOCP	VOLT/PHASE	
FIRST FLOOR																						
1-01	DAIKIN / FXMA96AAVJU	DUCTED ABV. CEILING	102 - CONFERENCE 2	2,965 - H 2,506 - M 1,838 - L	--	0.6"	CU-1	BS-9	18 1/2" x 58 11/16" x 43 5/16"	254 LBS.	TOTAL: 96,000 BTU	80° d.b. 67° w.b.	95° d.b. 75° w.b.	108,000 BTU	70° d.b. 60° w.b.	47° d.b. 43° w.b.	7/8"	3/8"	6.8	15	208v / 230v, 1ø	CONDENSATE PUMP, WIRED T-STAT. PROVIDE CONDENSATE OVERFLOW SAFETY CUT-OFF SWITCH.
1-02	DAIKIN / FXSA18AAVJU	DUCTED ABV. CEILING	100 - COMMON AREA	600 - H 512 - M 406 - L	--	0.5"	CU-1	BS-10	9 11/16" x 39 3/8" x 31 1/2"	82 LBS.	TOTAL: 18,000 BTU	80° d.b. 67° w.b.	95° d.b. 75° w.b.	2,000 BTU	70° d.b. 60° w.b.	47° d.b. 43° w.b.	1/2"	1/4"	1.6	15	208v / 230v, 1	CONDENSATE PUMP, WIRED T-STAT. PROVIDE CONDENSATE OVERFLOW SAFETY CUT-OFF SWITCH.
1-03	DAIKIN / FXMA96AAVJU	DUCTED ABV. CEILING	103 - CONFERENCE 1	2,965 - H 2,506 - M 1,838 - L	--	0.6"	CU-1	BS-12	18 1/2" x 58 11/16" x 43 5/16"	254 LBS.	TOTAL: 96,000 BTU	80° d.b. 67° w.b.	95° d.b. 75° w.b.	108,000 BTU	70° d.b. 60° w.b.	47° d.b. 43° w.b.	7/8"	3/8"	6.8	15	208v / 230v, 1	CONDENSATE PUMP, WIRED T-STAT. PROVIDE CONDENSATE OVERFLOW SAFETY CUT-OFF SWITCH.
1-04	DAIKIN / FXSA68AAVJU	DUCTED ABV. CEILING	110 - FOOD SERVICE	1,307 - H 1,112 - M 918 - L	--	0.5"	CU-1	BS-11	9 11/16" x 55 1/8" x 31 1/2"	106 LBS.	TOTAL: 48,000 BTU	80° d.b. 67° w.b.	95° d.b. 75° w.b.	54,000 BTU	70° d.b. 60° w.b.	47° d.b. 43° w.b.	5/8"	3/8"	2.8	15	208v / 230v, 1	CONDENSATE PUMP, WIRED T-STAT. PROVIDE CONDENSATE OVERFLOW SAFETY CUT-OFF SWITCH.
1-05/A	DAIKIN / FXAA18AAVJU	WALL MOUNTED	116 - STORAGE	512 - H 423 - M 353 - L	--	0"	CU-1	BS-7	11 5/8" x 44 1/8" x 9 3/4"	35.3 LBS.	TOTAL: 20,000 BTU	80° d.b. 67° w.b.	95° d.b. 75° w.b.	8,500 BTU	70° d.b. 60° w.b.	47° d.b. 43° w.b.	1/2"	1/4"	0.5	15	208v / 230v, 1	CONDENSATE PUMP, WIRED T-STAT. PROVIDE CONDENSATE OVERFLOW SAFETY CUT-OFF SWITCH.
1-05/B	DAIKIN / FXAA07AAVJU	WALL MOUNTED	116 - STORAGE	300 - H 282 - M 247 - L	--	0"	CU-1	BS-8	11 5/8" x 33 13/16" x 9 3/4"	26.5 LBS.	TOTAL: 7,500 BTU	80° d.b. 67° w.b.	95° d.b. 75° w.b.	8,500 BTU	70° d.b. 60° w.b.	47° d.b. 43° w.b.	1/2"	1/4"	0.3	15	208v / 230v, 1	CONDENSATE PUMP, WIRED T-STAT. PROVIDE CONDENSATE OVERFLOW SAFETY CUT-OFF SWITCH.
1-06	DAIKIN / FXZA07AAVJU	2 X 2 CASSETTE	117 - LOBBY	307 - H 264 - M 229 - L	--	0"	CU-1	BS-6	10 1/4" x 22 5/8" x 22 5/8"	35.3 LBS.	TOTAL: 7,500 BTU	80° d.b. 67° w.b.	95° d.b. 75° w.b.	8,500 BTU	70° d.b. 60° w.b.	47° d.b. 43° w.b.	1/2"	1/4"	0.3	15	208v / 230v, 1	CONDENSATE PUMP, WIRED T-STAT. PROVIDE CONDENSATE OVERFLOW SAFETY CUT-OFF SWITCH.
2-01	DAIKIN / FXZA12AAVJU	2 X 2 CASSETTE	215 - STOR. / OFFICE	353 - H 300 - M 247 - L	--	0"	CU-1	BS-1	10 1/4" x 22 5/8" x 22 5/8"	36.4 LBS.	TOTAL: 12,000 BTU	80° d.b. 67° w.b.	95° d.b. 75° w.b.	13,500 BTU	70° d.b. 60° w.b.	47° d.b. 43° w.b.	1/2"	1/4"	0.4	15	208v / 230v, 1ø	CONDENSATE PUMP, WIRED T-STAT. PROVIDE CONDENSATE OVERFLOW SAFETY CUT-OFF SWITCH.
2-02	DAIKIN / FXZA05AAVJU	2 X 2 CASSETTE	214 - STOR. / OFFICE	300 - H 247 - M 229 - L	--	0"	CU-1	BS-1	10 1/4" x 22 5/8" x 22 5/8"	35.3 LBS.	TOTAL: 6,000 BTU	80° d.b. 67° w.b.	95° d.b. 75° w.b.	BTU	70° d.b. 60° w.b.	47° d.b. 43° w.b.	1/2"	1/4"	0.3	15	208v / 230v, 1ø	CONDENSATE PUMP, WIRED T-STAT. PROVIDE CONDENSATE OVERFLOW SAFETY CUT-OFF SWITCH.
2-03	DAIKIN / FXZA12AAVJU	2 X 2 CASSETTE	212 - STOR. / OFFICE	353 - H 300 - M 247 - L	--	0"	CU-1	BS-1	10 1/4" x 22 5/8" x 22 5/8"	36.4 LBS.	TOTAL: 12,000 BTU	80° d.b. 67° w.b.	95° d.b. 75° w.b.	13,500 BTU	70° d.b. 60° w.b.	47° d.b. 43° w.b.	1/2"	1/4"	0.4	15	208v / 230v, 1ø	CONDENSATE PUMP, WIRED T-STAT. PROVIDE CONDENSATE OVERFLOW SAFETY CUT-OFF SWITCH.
2-04	DAIKIN / FXZA05AAVJU	2 X 2 CASSETTE	211 - STOR. / OFFICE	300 - H 247 - M 229 - L	--	0"	CU-1	BS-1	10 1/4" x 22 5/8" x 22 5/8"	35.3 LBS.	TOTAL: 6,000 BTU	80° d.b. 67° w.b.	95° d.b. 75° w.b.	BTU	70° d.b. 60° w.b.	47° d.b. 43° w.b.	1/2"	1/4"	0.3	15	208v / 230v, 1ø	CONDENSATE PUMP, WIRED T-STAT. PROVIDE CONDENSATE OVERFLOW SAFETY CUT-OFF SWITCH.
2-05	DAIKIN / FXZA15AAVJU	2 X 2 CASSETTE	209 - STOR. / OFFICE	405 - H 335 - M 282 - L	--	0"	CU-1	BS-3	10 1/4" x 22 5/8" x 22 5/8"	36.4 LBS.	TOTAL: 15,000 BTU	80° d.b. 67° w.b.	95° d.b. 75° w.b.	17,000 BTU	70° d.b. 60° w.b.	47° d.b. 43° w.b.	1/2"	1/4"	0.4	15	208v / 230v, 1ø	CONDENSATE PUMP, WIRED T-STAT. PROVIDE CONDENSATE OVERFLOW SAFETY CUT-OFF SWITCH.
2-06	DAIKIN / FXZA05AAVJU	2 X 2 CASSETTE	210 - STOR. / OFFICE	300 - H 247 - M 229 - L	--	0"	CU-1	BS-2	10 1/4" x 22 5/8" x 22 5/8"	35.3 LBS.	TOTAL: 6,000 BTU	80° d.b. 67° w.b.	95° d.b. 75° w.b.	BTU	70° d.b. 60° w.b.	47° d.b. 43° w.b.	1/2"	1/4"	0.3	15	208v / 230v, 1ø	CONDENSATE PUMP, WIRED T-STAT. PROVIDE CONDENSATE OVERFLOW SAFETY CUT-OFF SWITCH.
2-07	DAIKIN / FXSA05AAVJU	DUCTED ABV. CEILING	218 - TLT.	281 - H 265 - M 230 - L	--	0.15"	CU-1	BS-4	9 11/16" x 21 11/16" x 31 1/2"	55.0 LBS.	TOTAL: 5,800 BTU	80° d.b. 67° w.b.	95° d.b. 75° w.b.	6,500 BTU	70° d.b. 60° w.b.	47° d.b. 43° w.b.	1/2"	1/4"	0.8	15	208v / 230v, 1ø	CONDENSATE PUMP, WIRED T-STAT. PROVIDE CONDENSATE OVERFLOW SAFETY CUT-OFF SWITCH.
2-08	DAIKIN / FXZA07AAVJU	2 X 2 CASSETTE	207 - STOR. / OFFICE	307 - H 264 - M 229 - L	--	0"	CU-1	BS-4	10 1/4" x 22 5/8" x 22 5/8"	35.3 LBS.	TOTAL: 7,500 BTU	80° d.b. 67° w.b.	95° d.b. 75° w.b.	8,500 BTU	70° d.b. 60° w.b.	47° d.b. 43° w.b.	1/2"	1/4"	0.3	15	208v / 230v, 1	CONDENSATE PUMP, WIRED T-STAT. PROVIDE CONDENSATE OVERFLOW SAFETY CUT-OFF SWITCH.
2-09	DAIKIN / FXZA05AAVJU	2 X 2 CASSETTE	208 - STOR. / OFFICE	300 - H 247 - M 229 - L	--	0"	CU-1	BS-4	10 1/4" x 22 5/8" x 22 5/8"	35.3 LBS.	TOTAL: 6,000 BTU	80° d.b. 67° w.b.	95° d.b. 75° w.b.	BTU	70° d.b. 60° w.b.	47° d.b. 43° w.b.	1/2"	1/4"	0.3	15	208v / 230v, 1ø	CONDENSATE PUMP, WIRED T-STAT. PROVIDE CONDENSATE OVERFLOW SAFETY CUT-OFF SWITCH.
2-10	DAIKIN / FXZA05AAVJU	2 X 2 CASSETTE	206 - STOR. / OFFICE	300 - H 247 - M 229 - L	--	0"	CU-1	BS-4	10 1/4" x 22 5/8" x 22 5/8"	35.3 LBS.	TOTAL: 6,000 BTU	80° d.b. 67° w.b.	95° d.b. 75° w.b.	BTU	70° d.b. 60° w.b.	47° d.b. 43° w.b.	1/2"	1/4"	0.3	15	208v / 230v, 1ø	CONDENSATE PUMP, WIRED T-STAT. PROVIDE CONDENSATE OVERFLOW SAFETY CUT-OFF SWITCH.
2-11	DAIKIN / FXZA07AAVJU	2 X 2 CASSETTE	205 - STOR. / OFFICE	307 - H 264 - M 229 - L	--	0"	CU-1	BS-4	10 1/4" x 22 5/8" x 22 5/8"	35.3 LBS.	TOTAL: 7,500 BTU	80° d.b. 67° w.b.	95° d.b. 75° w.b.	8,500 BTU	70° d.b. 60° w.b.	47° d.b. 43° w.b.	1/2"	1/4"	0.3	15	208v / 230v, 1	CONDENSATE PUMP, WIRED T-STAT. PROVIDE CONDENSATE OVERFLOW SAFETY CUT-OFF SWITCH.
2-12	DAIKIN / FXZA07AAVJU	2 X 2 CASSETTE	204 - STOR. / OFFICE	307 - H 264 - M 229 - L	--	0"	CU-1	BS-4	10 1/4" x 22 5/8" x 22 5/8"	35.3 LBS.	TOTAL: 7,500 BTU	80° d.b. 67° w.b.	95° d.b. 75° w.b.	8,500 BTU	70° d.b. 60° w.b.	47° d.b. 43° w.b.	1/2"	1/4"	0.3	15	208v / 230v, 1	CONDENSATE PUMP, WIRED T-STAT. PROVIDE CONDENSATE OVERFLOW SAFETY CUT-OFF SWITCH.
2-13/A	DAIKIN / FXZA05AAVJU	2 X 2 CASSETTE	213 - CORR.	300 - H 247 - M 229 - L	--	0"	CU-1	BS-1	10 1/4" x 22 5/8" x 22 5/8"	35.3 LBS.	TOTAL: 6,000 BTU	80° d.b. 67° w.b.	95° d.b. 75° w.b.	BTU	70° d.b. 60° w.b.	47° d.b. 43° w.b.	1/2"	1/4"	0.3	15	208v / 230v, 1ø	CONDENSATE PUMP, WIRED T-STAT. PROVIDE CONDENSATE OVERFLOW SAFETY CUT-OFF SWITCH.
2-13/B	DAIKIN / FXZA05AAVJU	2 X 2 CASSETTE	203 - CORR.	300 - H 247 - M 229 - L	--	0"	CU-1	BS-2	10 1/4" x 22 5/8" x 22 5/8"	35.3 LBS.	TOTAL: 6,000 BTU	80° d.b. 67° w.b.	95° d.b. 75° w.b.	BTU	70° d.b. 60° w.b.	47° d.b. 43° w.b.	1/2"	1/4"	0.3	15	208v / 230v, 1ø	CONDENSATE PUMP, WIRED T-STAT. PROVIDE CONDENSATE OVERFLOW SAFETY CUT-OFF SWITCH.
2-14	DAIKIN / FXZA18AAVJU	2 X 2 CASSETTE	200 - STAIR	511 - H 441 - M 353 - L	--	0"	CU-1	BS-5	10 1/4" x 22 5/8" x 22 5/8"	41.9 LBS.	TOTAL: 18,000 BTU	80° d.b. 67° w.b.	95° d.b. 75° w.b.	20,000 BTU	70° d.b. 60° w.b.	47° d.b. 43° w.b.	1/2"	1/4"	0.6	15	208v / 230v, 1	CONDENSATE PUMP, WIRED T-STAT. PROVIDE CONDENSATE OVERFLOW SAFETY CUT-OFF SWITCH.

VRV BRANCH SELECTOR SCHEDULE

DESIG.	MFR/MDL	TYPE	CU #	LBS	NO. OF PORTS	DIMENSIONS (H x W x D)	CAPACITY	SOUND	ELECTRICAL DATA			REMARKS
								dBA	MCA	MOCP	V/ PH.	
SECOND FLOOR												
BS -1	DAIKIN / BSF4A54AAVJ	MULTI BRANCH	CU-1	68	4	9 1/2" x 19 5/16" x 28 3/16"	54.0 MBH	37 - 47	1.2	15	208/1ø	PROVIDE WITH VIBRATION ISOLATION MOUNTING KIT.
BS -2	DAIKIN / BSA36AAVJ	SINGLE PORT	CU-1	35	1	8 1/8" x 15 1/4" x 16 3/4"	36.0 MBH	35 - 40	0.9	15	208/1ø	PROVIDE WITH VIBRATION ISOLATION MOUNTING KIT.
BS-3	DAIKIN / BSA36AAVJ	SINGLE PORT	CU-1	35	1	8 1/8" x 15 1/4" x 16 3/4"	36.0 MBH	35 - 40	0.9	15	208/1ø	PROVIDE WITH VIBRATION ISOLATION MOUNTING KIT.
BS-4	DAIKIN / BSF6A54AAVJ	MULTI BRANCH	106	35	6	9 1/2" x 33 7/16" x 28 3/16"	54.0 MBH	37 - 47	1.9	15	208/1ø	PROVIDE WITH VIBRATION ISOLATION MOUNTING KIT.
BS-5	DAIKIN / BSA36AAVJ	SINGLE PORT	CU-1	35	1	8 1/8" x 15 1/4" x 16 3/4"	36.0 MBH	35 - 40	0.9	15	208/1ø	PROVIDE WITH VIBRATION ISOLATION MOUNTING KIT.
FIRST FLOOR												
BS-6	DAIKIN / BSA36AAVJ	SINGLE PORT	CU-1	35	1	8 1/8" x 15 1/4" x 16 3/4"	36.0 MBH	35 - 40	0.9	15	208/1ø	PROVIDE WITH VIBRATION ISOLATION MOUNTING KIT.
BS-7	DAIKIN / BSA36AAVJ	SINGLE PORT	CU-1	35	1	8 1/8" x 15 1/4" x 16 3/4"	36.0 MBH	35 - 40	0.9	15	208/1ø	PROVIDE WITH VIBRATION ISOLATION MOUNTING KIT.
BS-8	DAIKIN / BSA36AAVJ	SINGLE PORT	CU-1	35	1	8 1/8" x 15 1/4" x 16 3/4"	36.0 MBH	35 - 40	0.9	15	208/1ø	PROVIDE WITH VIBRATION ISOLATION MOUNTING KIT.
BS-9	DAIKIN / BSA96AAVJ	SINGLE PORT	CU-1	37	1	8 1/8" x 15 1/4" x 16 3/4"	96.0MBH	35 - 40	0.9	15	208/1ø	PROVIDE WITH VIBRATION ISOLATION MOUNTING KIT.
BS-10	DAIKIN / BSA36AAVJ	SINGLE PORT	CU-1	35	1	8 1/8" x 15 1/4" x 16 3/4"	36.0 MBH	35 - 40	0.9	15	208/1ø	PROVIDE WITH VIBRATION ISOLATION MOUNTING KIT.
BS-11	DAIKIN / BSA60AAVJ	SINGLE PORT	CU-1	35	1	8 1/8" x 15 1/4" x 16 3/4"	60.0MBH	35 - 40	0.9	15	208/1ø	PROVIDE WITH VIBRATION ISOLATION MOUNTING KIT.
BS-12	DAIKIN / BSA96AAVJ	SINGLE PORT	CU-1	37	1	8 1/8" x 15 1/4" x 16 3/4"	96.0MBH	35 - 40	0.9	15	208/1ø	PROVIDE WITH VIBRATION ISOLATION MOUNTING KIT.

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.11043 MARCUS D. CAVINESS

CORPORATE REGISTRATION PETTIT & PETTIT CONSULTING ENGINEERS, INC. No. 78 ARKANSAS ENGINEER

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WDD ARCHITECTS

ST JOHNS CENTER
BYRNE HALL RENOVATION
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HVAC SCHEDULES

NO.	DATE	DESCRIPTION

25-043

6-9-26

100% CONSTRUCTION DOCUMENTS

ISSUE

M4.01

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EXHAUST FAN SCHEDULE

DESIG.	MFR/MDL	SERVES	LOCAT.	TYPE	FAN DATA							MOTOR DATA				REMARKS
					CFM	S.P.	RPM	DRIVE	TYPE	DIA.	SONES	RPM	BHP	HP	VOLT/PH	
EF-1	COOK / ACE-D VF	WMS / MENS TLT (RM. 113 & 115)	ROOF	UPBLAST	550	0.38"	1,475	DIRECT	---	---"	5.9	1,725	0.068	1/8	120 / 1ø	PROVIDE FAN SPEED CONTROL, BACKDRAFT DAMPER, & DISCONNECT
EF-2	COOK / 70C	TLT. (RM 218)	ROOF	UPBLAST	200	0.38"	1,688	DIRECT	---	---"	4.1	1,725	0.018	1/20	120 / 1ø	PROVIDE FAN SPEED CONTROL, BACKDRAFT DAMPER, & DISCONNECT

ELECTRIC HEATER SCHEDULE

DESIG.	MFR/MDL	SERVES	TYPE	CFM	HEATING		ELECTRICAL		REMARKS
					KW	BTU/HR	VOLT/PHASE	AMPS	
EH-1	MARKEL/ J3424T	SOUTH BASEMENT (RM. 006)	WALL MOUNTED	245	4.0	13,652	208V/3Ø	11.1	PROVIDE SEMI-RECESSED WALL MOUNTING BRACKET, WALL MOUNTED THERMOSTAT, SUMMER FAN SWITCH, & DISCONNECT SWITCH
EH-2	MARKEL/ J3424T	SOUTH BASEMENT (RM. 006)	WALL MOUNTED	245	4.0	13,652	208V/3Ø	11.1	PROVIDE SEMI-RECESSED WALL MOUNTING BRACKET, WALL MOUNTED THERMOSTAT, SUMMER FAN SWITCH, & DISCONNECT SWITCH
EH-3	MARKEL/ J3422T	CENTRAL BASEMENT (RM. 005)	WALL MOUNTED	245	2.0	6,826	208V/3Ø	5.6	PROVIDE SEMI-RECESSED WALL MOUNTING BRACKET, WALL MOUNTED THERMOSTAT, SUMMER FAN SWITCH, & DISCONNECT SWITCH
EH-4	MARKEL/ J3422T	CENTRAL BASEMENT (RM. 005)	WALL MOUNTED	245	2.0	6,826	208V/3Ø	5.6	PROVIDE SEMI-RECESSED WALL MOUNTING BRACKET, WALL MOUNTED THERMOSTAT, SUMMER FAN SWITCH, & DISCONNECT SWITCH
EH-5	MARKEL/ J3424T	NORTH BASEMENT (RM. 003)	WALL MOUNTED	245	4.0	13,652	208V/3Ø	11.1	PROVIDE SEMI-RECESSED WALL MOUNTING BRACKET, WALL MOUNTED THERMOSTAT, SUMMER FAN SWITCH, & DISCONNECT SWITCH
EH-6	MARKEL/ J3424T	NORTH BASEMENT (RM. 003)	WALL MOUNTED	245	4.0	13,652	208V/3Ø	11.1	PROVIDE SEMI-RECESSED WALL MOUNTING BRACKET, WALL MOUNTED THERMOSTAT, SUMMER FAN SWITCH, & DISCONNECT SWITCH
EH-7	MARKEL/ J3422T	ELEV. VEST. (RM. 002)	WALL MOUNTED	245	2.0	6,826	208V/3Ø	5.6	PROVIDE SEMI-RECESSED WALL MOUNTING BRACKET, WALL MOUNTED THERMOSTAT, SUMMER FAN SWITCH, & DISCONNECT SWITCH
EH-8	MARKEL/ J3422T	EAST BASEMENT (RM. 007)	WALL MOUNTED	245	2.0	6,826	208V/3Ø	5.6	PROVIDE SEMI-RECESSED WALL MOUNTING BRACKET, WALL MOUNTED THERMOSTAT, SUMMER FAN SWITCH, & DISCONNECT SWITCH
EH-9	MARKEL/ J3422T	EAST BASEMENT (RM. 007)	WALL MOUNTED	245	2.0	6,826	208V/3Ø	5.6	PROVIDE SEMI-RECESSED WALL MOUNTING BRACKET, WALL MOUNTED THERMOSTAT, SUMMER FAN SWITCH, & DISCONNECT SWITCH
EH-10	MARKEL/ J3424T	MECH. BASEMENT (RM. 008)	WALL MOUNTED	245	4.0	13,652	208V/3Ø	11.1	PROVIDE SEMI-RECESSED WALL MOUNTING BRACKET, WALL MOUNTED THERMOSTAT, SUMMER FAN SWITCH, & DISCONNECT SWITCH

AIR DEVICE SCHEDULE

DESIG.	MFR./MDL.	TYPE	FACE SIZE	FINISH	FREE AREA	ACCESS.	REMARKS
CD-1	TITUS TDC	LOUVER FACE CEILING SUPPLY	AS NOTED	WHITE	---	OPPOSED BLADE DAMPER	ROUND NECK, FULL FACE
CD-2	TITUS TDC	LOUVER FACE CEILING SUPPLY	AS NOTED	WHITE	---	OPPOSED BLADE DAMPER	SQUARE NECK, FULL FACE
CD-3	TITUS 300RS	SIDEWALL SUPPLY	AS NOTED	WHITE	---	OPPOSED BLADE DAMPER	3/4" SPACED BLADES, 22.5° DEFLECTION, FRONT BLADES PARALLEL TO SHORT DIMENSION
SFG-1	TITUS CT-PP	FLOOR GRILLE SUPPLY	AS NOTED	PER ARCH.	---	OPPOSED BLADE DAMPER	PROVIDE W/ HEAVY DUTY CORE, (PP) PENSILE PROOF BAR SPACING & FLANGED FRAME
CR-1	TITUS PAR	PERF. FACE CEILING RETURN	AS NOTED	WHITE	51%	OPPOSED BLADE DAMPER	ROUND NECK, FULL FACE
CR-2	TITUS 50F	EGGCRATE CEILING RETURN	AS NOTED	WHITE	---	OPPOSED BLADE DAMPER	1/2"x1/2"x1/2" CORE, RECTANGULAR NECK
CR-3	TITUS 350RL	SIDEWALL RETURN	AS NOTED	WHITE	---	OPPOSED BLADE DAMPER	3/4" SPACED BLADES, 35° DEFLECTION, BLADES PARALLEL TO LONG DIM.
RFG-1	TITUS CT-PP	FLOOR GRILLE SUPPLY	AS NOTED	PER ARCH.	---	OPPOSED BLADE DAMPER	PROVIDE W/ HEAVY DUTY CORE, (PP) PENSILE PROOF BAR SPACING & FLANGED FRAME
ER-1	TITUS 50F	EGGCRATE CEILING RETURN	AS NOTED	WHITE	---	OPPOSED BLADE DAMPER	1/2"x1/2"x1/2" CORE, RECTANGULAR NECK
ER-2	TITUS PAR	PERF. FACE CEILING EXHAUST	AS NOTED	WHITE	51%	OPPOSED BLADE DAMPER	SQUARE NECK, FULL FACE
ER-3	TITUS PAR	PERF. FACE CEILING RETURN	AS NOTED	WHITE	51%	OPPOSED BLADE DAMPER	ROUND NECK, FULL FACE
ER-4	TITUS 350RL	SIDEWALL EXHAUST	AS NOTED	WHITE	---	OPPOSED BLADE DAMPER	3/4" SPACED BLADES, 35° DEFLECTION, BLADES PARALLEL TO LONG DIM.

GENERAL NOTES

1. DUE TO THE SMALL SCALE OF THIS DRAWING, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, AND ACCESSORIES WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING THE WORK AND SHALL COORDINATE AND ARRANGE HIS WORK ACCORDINGLY.
2. ROUND BRANCH DUCT RUNOUTS SHALL BE SAME SIZE AS DIFFUSER THROAT UNLESS OTHERWISE NOTED.
3. FLEXIBLE DUCT MAY BE USED FOR FINAL CONNECTIONS TO DIFFUSERS. A MAXIMUM LENGTH OF THREE FEET (3') SHALL BE USED. A HARD 90° ELBOW MUST BE USED WHERE DUCT TURNS DOWN ABOVE DIFFUSER.
4. ALL CEILING-MOUNTED SUPPLY DIFFUSERS SHALL HAVE FOUR-WAY (4-WAY) PATTERN UNLESS OTHERWISE INDICATED.
5. WHERE MANUAL DAMPERS ARE INSTALLED IN EXTERNALLY INSULATED DUCTWORK, PROVIDE STAND-OFF BRACKET TO PREVENT COMPRESSION OF INSULATION BY DAMPER OPERATOR HANDLE.
6. PROVIDE TURNING VANES IN ALL 90-DEGREE MITERED ELBOWS.
7. PROVIDE SLEEVES THROUGH WALLS AND FLOORS. SEAL EXCESS OPENING WITH WATER-PROOF SEALANT. COORDINATE LOCATIONS AND SIZES OF SLEEVES WITH GENERAL CONTRACTOR. SLEEVES SHALL PROVIDE A MAXIMUM OF 1" CLEARANCE BETWEEN DUCT OR PIPE AND SLEEVE. SEAL PENETRATION IN FIRE/SMOKE RATED WALLS AND FLOOR WITH AN APPROVED FIRE/SMOKE BLOCK SEALANT.
8. EXTERNALLY INSULATE SUPPLY, RETURN, RELIEF, AND OUTSIDE AIR DUCTWORK UNLESS NOTED OTHERWISE.
9. EXHAUST DUCTWORK SHALL BE UN-INSULATED, UNLESS NOTED OTHERWISE
10. EXTERNALLY INSULATE LOW-VELOCITY ROUND RUNOUT DUCTWORK
11. INSULATE THE TOP OF ALL SUPPLY AIR DIFFUSERS WITH A MINIMUM OF 1/2" THICK FIBERGLASS DUCT WRAP.
12. RUN COOLING COIL CONDENSATE DRAINS FULL SIZE TO NEAREST FLOOR OR ROOF DRAIN.
13. INSULATE ALL REFRIGERANT PIPING AND CONDENSATE DRAIN PIPING WITH 3/4" ELASTOMERIC INSULATION (ARMAFLEX). COAT ALL EXTERIOR PIPE INSULATION WITH UV PROTECTANT PAINT.
14. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE AND SMOKE RATED PARTITIONS.
15. COORDINATE LOCATION OF DUCTS AND DIFFUSERS WITH STRUCTURAL FRAMING MEMBERS. OFFSET DUCTS AS REQUIRED TO CLEAR STRUCTURAL MEMBERS.
16. COORDINATE LOCATIONS AND ELEVATION OF DUCT RUNS WITH PLUMBING, SPRINKLER, AND ELECTRICAL CONTRACTORS.
17. COORDINATE MAKE-UP WATER AND GAS REQUIREMENTS WITH PLUMBING CONTRACTOR.
18. PROVIDE ACCESS DOORS FOR ALL FIRE DAMPERS. PROVIDE CEILING ACCESS DOORS FOR DAMPERS ABOVE GYPSUM BOARD CEILINGS.
19. PAINT DUCTWORK BLACK THAT MAY BE VISIBLE ABOVE PARTIAL CEILINGS. COORDINATE PAINTING OF DUCTWORK WITH ARCHITECT.
20. COORDINATE CEILING DIFFUSER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS.

LEGEND

- CEILING DIFFUSER
- RETURN AIR GRILLE (RA)
- EXHAUST REGISTER (ER)
- 624 CD-1 / 100 CFM — SIZE - DESIGNATION / CUBIC FEET PER MINUTE
- FLEXIBLE DUCT CONNECTOR
- TURNING VANES
- SPLITTER DAMPER (TEE)
- INTERNALLY INSULATED DUCTWORK
- M.D. — MANUAL DAMPER
- OPPOSED BLADE DAMPER
- DIAMETER
- THERMOSTAT (WITH UNIT NUMBER)
- 1 / M-1 DETAIL; 2 / M-2 SECTION — TOP NUMBER REFERS TO THE DETAIL NUMBER. BOTTOM NUMBER REFERS TO THE SHEET WHERE DETAIL IS SHOWN
- DS — DUCT SMOKE DETECTOR
- CONNECT TO EXISTING
- DEMOLITION TERMINATION
- AIR VENT (AUTO/HAND)
- BUTTERLFLY VALVE
- AUTOMATIC CONTROL VALVE (3-WAY)
- AUTOMATIC CONTROL VALVE
- CHECK VALVE
- FLEXIBLE CONNECTOR (BRAIDED)
- GATE VALVE
- GLOBE VALVE (STRAIGHT)
- PLUG VALVE
- PRESSURE GAUGE (W/COCK)
- PRESSURE GAUGE
- PRESSURE RELIEF VALVE
- PRESSURE AND TEMPERATURE TAP
- REDUCER (CONCENTRIC)
- REDUCER (ECCENTRIC)
- STRAINER (WITH BLOW DOWN VALVE)
- THERMOMETER
- TO FLOOR DRAIN
- UNION (FLANGED, SCREWED)
- CHS — CHILLED WATER SUPPLY
- CHR — CHILLED WATER RETURN
- HWS — HEATING WATER SUPPLY
- HWR — HEATING WATER RETURN
- D — DRAIN

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 11043 — MARCUS D. CASTLES

CORPORATE REGISTRATION — PETTIT & PETTIT CONSULTING ENGINEERS, INC. — No. 78 — ARKANSAS ENGINEER

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NOTE:

1. FACTORY BAS MONITORING POINTS FOR SPECIFIED UNIT SHOWN ON DIAGRAM.

2. A HUMIDITY SENSOR SHALL BE PROVIDED FOR MONITORING THE SPACE HUMIDITY WHETHER REQUIRED AND PROVIDED WITH FACTORY UNIT CONTROLS OR NOT. CONTROLS CONTRACTOR SHALL ENSURE THAT SPACE HUMIDITY IS A POINT VIEWABLE ON THE BAS.

BASIC UNIT OPERATION DESCRIPTION:

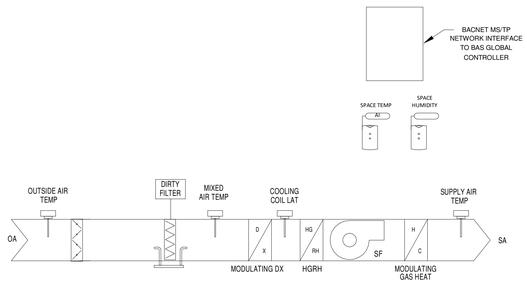
OCCUPIED:
WHEN THE UNIT IS COMMANDED TO RUN IN THE OCCUPIED MODE FROM THE BAS (BUILDING AUTOMATION SYSTEM), THE UNIT SUPPLY FAN WILL OPERATE AND THE AIRFLOW WILL BE ADJUSTED BY THE VFD AS REQUIRED. THE UNIT OUTSIDE AIR DAMPERS AND RECIRCULATION DAMPERS WILL MODULATE BETWEEN SPECIFIED MINIMUM AND MAXIMUM OUTSIDE AIR FLOW (PER CO2 SENSOR). EXCESS BUILDING AIR WILL EXIT THRU THE UNIT BAROMETRIC RELIEF DAMPER.

UNIT COOLING AND HEATING WILL OPERATE AS REQUIRED TO MAINTAIN TO SATISFY THE SPACE TEMPERATURE SET-POINT OF 72 DEGREES. (ADJUSTABLE).

UNIT RE-HEAT COIL WILL PROVIDE DEHUMIDIFICATION AS REQUIRED. THE FIELD MOUNTED HUMIDITY SENSOR WILL ALARM THE SYSTEM WHEN THE SPACE HUMIDITY IS ABOVE 60% (ADJUSTABLE).

UN-OCCUPIED:
WHEN THE UNIT IS COMMANDED TO RUN IN THE UN-OCCUPIED MODE FROM THE BAS (BUILDING AUTOMATION SYSTEM), THE UNIT SUPPLY FAN, UNIT COOLING AND UNIT HEATING WILL CYCLE ON AS REQUIRED TO MAINTAIN THE UNOCCUPIED TEMPERATURE SETPOINT. THE UNIT OUTSIDE AIR DAMPERS WILL BE 100% CLOSED AND THE UNIT RECIRCULATION DAMPERS WILL BE 100% OPEN.

THE FIELD MOUNTED HUMIDITY SENSOR WILL ALARM THE SYSTEM WHEN THE SPACE HUMIDITY IS ABOVE 60% (ADJUSTABLE).



1 VENTILATION AIR UNIT (VAU-1 & VAU-2)
NOT TO SCALE

Factory Controller Sequence of Operation

FACTORY CONTROLLER: Controller shall be provided with required sensors and programming for rooftop unit. Controller shall be factory programmed, mounted and tested. Controller shall have a LCD readout for changing set points and monitoring unit operation.

UNIT START COMMAND (Unit will be enabled to start once a jumper is placed between R to G):
- Factory mounted and wired outdoor air damper actuator is powered
- Supply fan starts after after a (adj.) delay.
- Tempering options to function as described below.

UNIT STOP COMMAND (OR DE-ENERGIZED):
- Supply fan, exhaust fan and tempering options de-energized.
- Outdoor air damper actuator is spring return close.

OCCUPIED/UNOCCUPIED MODES: Shall be based on a 7-day time clock internal to the controller. The schedule shall be set by the end user. When a user initiates an override input, the controller will switch from unoccupied to occupied mode. The controller will return to the scheduled occupied/unoccupied mode after the override time has expired. If internal time clock is disabled, a remote contact or a BMS can control the occupied/unoccupied mode.

Occupied Mode:
- Damper control per below.
- Supply fan ON.
- Heating per below.
- Cooling per below.

Unoccupied Mode (Unit Off): Unit remains off when in unoccupied mode.
- Supply fan OFF
- Tempering OFF
- Outdoor air damper closed.

MORNING WARMUP/COOL DOWN: Prior to occupancy, the unit will run using the warmup or cool down sequence until the occupied set point is achieved. The heating or cooling mode must not be locked out and the space temperature is below or above set point by the unoccupied hysteresis (adj.) (This Sequence must be field configured.)

SUPPLY BLOWER SEQUENCE: The supply blower is provided with a factory mounted variable frequency The supply blower speed will be controlled with the following sequence. Minimum supply fan turndown is 50% of the design maximum operation.

Constant Volume-Adj. Setpoint: The supply blower will operate at a constant speed set point (adj.) during operation.

COOLING SEQUENCE: The cooling is controlled to maintain the supply temperature set point. The mechanical cooling will be locked out when the outside air is < 55 F (adj.).

Packaged DX Cooling (Inverter Scroll): The controller will provide a modulating signal for cooling. From 0-100%, the inverter scroll will be controlled to maintain discharge temperature. The electronic expansion valve will modulate to maintain 8 of superheat.

Modulating Hot Gas Reheat Sequence: During dehumidification the modulating HGRH is controlled to maintain the supply temperature set point.

Modulating Head Pressure Control: Lead condenser fan will have an EC motor and will modulate to maintain a head pressure set point.

DEHUMIDIFICATION CONTROL SEQUENCE: Dehumidification to be enabled and once enabled the cooling coil will be controlled based on the following sequences. The mechanical cooling will be locked out when the outside air is < 55 F (adj.)

Cold Coil Set Point Control: When in dehumidification mode the controller will control the cooling to maintain a constant cold coil set point. The active set point will be set to local control (55 F. adj.) from the factory and can be field adjusted locally or by the BMS.

Dehumidification Enable: Dehumidification mode to be enabled based on the outside air dew point condition. When the outside air dew point is greater than the desired set point (adj.), the unit will operate in dehumidification mode.

REHEAT SEQUENCE: While the unit is in dehumidification mode the outdoor air will be reheated via Modulating Hot Gas Reheat for space neutral applications.

Modulating Hot Gas Reheat: The controller will modulate the hot gas reheat reheat valve with a 0-10 V signal to maintain the supply temperature set point (adj.).

HEATING SEQUENCE: The heating is controlled to maintain the supply temperature set point. The heating will be locked out when the outside air is > 80 F (adj.).

Indirect Gas Furnace: The controller will modulate the indirect gas furnace to maintain the supply temperature set point (adj.).

TEMPERATURE CONTROL SEQUENCE: The unit will maintain the supply air discharge setpoint per the following. Adjustable locally or by BMS.

Supply Discharge Temperature Control: The supply setpoint will be a constant temperature setpoint from the controller (adj.). Adjustable locally or by BMS.

BUILDING FREEZE PROTECTION: If the supply air temperature drops below 35 F (adj.) for 300s (adj.), the controller will de-energize the unit and activate the alarm output.

UNIT LEAK DETECTION & MITIGATION: The unit will be equiped with refrigerant leak detection sensors. These sensors along with sequence are required per UL60335-2-40.

ALARMS INDICATION: The controller will display alarms and have one digital output for remote indication of an alarm condition. Possible alarms include:

Building Management System: The controller will send all alarms to the BMS.

Dirty Filter Alarm: A digital signal is sent to the controller indicating an increased pressure drop across the supply air filter (Must be adjusted in field during start up). The controller will then provide a dirty filter alarm.

Supply Air Alarm: The controller monitors the proving switch on supply blower and sends an alarm in the case of the blower proving switch not engaging for 30s (adj.).

DX Alarm: The controller monitors the refrigerant pressure. In the case of low refrigerant pressure the compressors will shut down until refrigerant pressure returns to normal values and the controller will send an alarm. In the case of high refrigerant pressure the compressors will shut down, requiring a manual reset and the controller will send a alarm.

Temperature Sensor Alarm: The controller sends an alarm in the case of a failed air temperature sensor.

ACCESSORIES: The following accessories will be included with the unit to expand the functionality or usability of the controller.

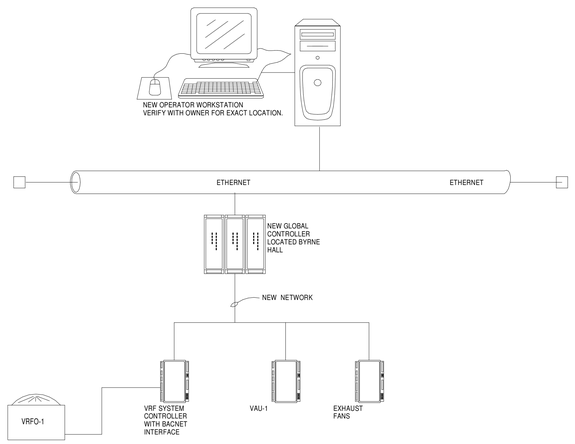
BMS Interfacing: A BMS port or serial card is provided with the controller for field interfacing with a building management system. Each card is sent out with the default parameters, and the controls contractor must change the appropriate addresses to match the BMS settings.

DDC Remote Interface: Factory provided, field mounted interface panel that will be wired to the main controller for monitoring and remote adjustments of set points.

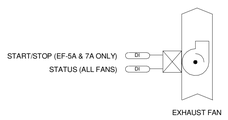
Phase and Brownout Protection: Factory mounted and wired component which monitors the main power coming into the unit. If a phase drops out, or if the incoming voltage exceeds the acceptable range, the component will turn off the unit to help protect the electrical systems.

Condensate Overflow Unit Shutdown: Factory mounted condensate overflow switch wired to the unit controller. The controller monitors the condensate overflow switch. If the water level in the drain pan reaches a certain level, the unit will shutdown and send an alarm.

Damper End Switch:Damper end switched will be provided to ensure the supply and exhaust fans do not enable until the dampers are proven open.

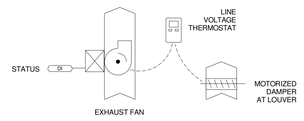


2 CONTROL SYSTEM ARCHITECTURE
NOT TO SCALE



- EF-1 & 2 START/STOP THRU CONTROLS SCHEDULE.

3 TOILET EXHAUST (EF-1 & 2)
N.T.S.



4 ELECTRICAL ROOM EXHAUST (EF-3)
N.T.S.

CONTROLS CONTRACTOR TO PROVIDE THE FOLLOWING:
(COORDINATE REQUIREMENTS WITH OTHER TRADES AND OWNER)

1. ADDITIONAL TEMP SENSOR IN EACH DATA ROOM AND PROGRAM ALARM TO BAS FOR HIGH TEMP.
2. CONNECTION TO POWER METER
3. CONNECTION TO LIGHTING CONTROL PANEL
4. CONNECTION TO GAS METER
5. CONNECTION TO FIRE ALARM PANEL
6. ELEVATOR SUMP PUMP & BARREL ALARM

5 MISC. BAS CONNECTIONS

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HVAC CONTROLS

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PLUMBING GENERAL NOTES

1. THE CONTRACTOR SHALL, PRIOR TO THE START OF ANY WORK UNDER THIS CONTRACT, JOB SITE VERIFY SIZE, LOCATION, ETC. OF ANY EXISTING PIPING NOTED, SHOWN OR IMPLIED, TO WHICH NEW PIPING IS RELATED OR CONNECTED.

2. HOT AND COLD WATER SUPPLIES TO FIXTURES SHALL BE AS FOLLOWS, UNLESS SHOWN OR NOTED OTHER WISE.

WATER CLOSET	1-1/4"
URINAL	1"
LAVATORY	1/2"
SERVICE SINK	3/4"
ELECTRIC WATER COOLER	1/2"
SINK	1/2"
SHOWER	1/2"
FREEZE-PROOF WALL HYDRANT	3/4"
CLINICAL SINK	1-1/4" & 1/2"
ICE MACHINE	1/2"
SUPPLY AND DRAIN UNIT (WASHER BOX)	1/2"
HOSE BIBB	3/4"
EMERGENCY SHOWER EYEWASH	1 -1/4"

3. INSTALL WATER HAMMER ARRESTORS EQUAL TO ZURN "SHOKTROL" AT EACH QUICK CLOSING VALVE, AND AT EACH GROUP OF PLUMBING FIXTURES, AND AS NOTED ON DRAWINGS SIZED AS PER MANUFACTURERS RECOMMENDATIONS. (MUST BE ACCESSIBLE WHERE POSSIBLE, ABOVE CEILING IF NECESSARY)

4. ALL SUPPLIES TO FIXTURE SHALL BE PROVIDED WITH HIGH EAR COUPLING EQUAL TO MUELLER CO. No. C-100HE (1/2", 3/4" OR 1" SIZE) AT THE WALL (ANCHOR TO CROSS MEMBER SUPPORT) BEFORE PIPE ENTERS ROOM SPACE TO ASSURE NO PIPE MOVEMENT WITHIN WALL CAVITY.

5. ALL FLOOR DRAINS SHALL BE PROVIDED WITH DEEP SEAL TYPE TRAP WITH NOT LESS THAN FOUR INCH (4") WATER SEAL AND BE PROVIDED WITH TRAP PRIMER.

6. ALL VENTS THROUGH ROOF (V.T.R.) SHALL BE PROVIDED WITH 6# (24" X 24" SIZE) FLASHING. WHERE STANDING SEAM TYPE IS USED THE FLASHING SHALL BE IN ACCORDANCE WITH THE ROOFING MANUFACTURERS RECOMMENDATION AND AS DETAILED ON THE ARCHITECTURAL DRAWINGS. CLOSE COORDINATION WITH THE ROOFING CONTRACTOR SHALL BE MAINTAINED TO ASSURE THE VENT PENETRATION IS CENTERED WITHIN THE METAL ROOF PANELS. TYPICALLY FOR METAL OR OTHER SPECIAL MATERIAL, ROOFS - USE MANUFACTURED RUBBER BOOT WITH STAINLESS TEEL HARDWARE TYPE THAT IS ARCHITECT APPROVED AND MUST BE COMPATIBLE WITH ROOFING SYSTEM AND ROOF WARRANTY.

7. FLUSH VALVES SHALL BE MOUNTED SUCH THAT THE DIMENSION FROM FLUSH VALVE CENTERLINE TO FINISHED FLOOR SHALL BE 39". (DOES NOT APPLY TO ELECTRONIC FLUSH VALVES) WHERE HANDICAPPED GRAB BARS ARE INSTALLED ON BACK WALL AT CLOSET, FLUSH VALVE SHALL BE MOUNTED AT STANDARD HEIGHT. SEE SPECIFICATIONS AND WATER CLOSET DETAIL.

8. ○ WHERE THIS SYMBOL OCCURS ON THE DRAWINGS, REFERENCE SHOULD BE MADE TO THE KEYED NOTES ON THAT SAME SHEET AND THE CORRESPONDING NUMBER OF THAT NOTE.

9. WHERE PLUMBING FIXTURES ARE LOCATED ON EXTERIOR WALL, WATER PIPING SHALL BE INSTALLED ON THE THERMAL SIDE OF THE WALL INSULATION.

10. CLOSE COORDINATION AND COOPERATION SHALL BE MAINTAINED BETWEEN TRADES WITH REGARD TO PLUMBING, HVAC, FIRE PROTECTION AND ELECTRICAL PLANS.

11. PROVIDE CLEANOUT CLEARANCE IN ACCORDANCE WITH THE ARKANSAS STATE PLUMBING CODE, BUT DO NOT LOCATE IN FOOT TRAFFIC PATHWAYS. DO NOT LOCATE CLEANOUTS IN FLOORS WITH CARPET. (FIELD COORDINATE) LOCATE FLOOR CLEANOUT NEAR WALLS, IN JANITORS ROOM, STORAGE ROOM, ETC., DO NOT LOCATE NEAR DOORWAYS.

12. PROVIDE FIRE STOPPING OR FIRE STOP SLEEVE DEVICES AT ALL RATED ASSEMBLIES - SEE ARCHITECTURAL SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR DETAILS.

13. TRAP PRIMERS- LOCATE TRAP PRIMERS REASONABLY CLOSE TO PLUMBING FIXTURE (10' TO 20')- DO NOT CONNECT TRAP PRIMER TO WATER LINE LARGER THAN 1 1/2" SIZE- TRY TO LOCATE TRAP PRIMER LOWER THAN PLUMBING FIXTURES. FIELD VERIFY EXACT TRAP PRIMER LOCATIONS AND WATER PIPE ROUTING. TRAP PRIMER SHALL TYPICALLY BE PRECISION PLUMBING PRODUCTS MODEL # P2-500. WHERE FLOOR DRAINS OCCUR NEAR WATER CLOSETS - USE VACUUM BREAKER TRAP PRIMER - SLOAN "TP" - MODEL VBF-72A - EXPOSED 3/8" TUBING SHALL BE VERY MINIMAL AND CHROME PLATED WITH CAST CHROME FLANGE TO WALL.

14. COORDINATE EXACT LOCATIONS OF ALL PLUMBING PIPING WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.

15. VERIFY WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL "ADA" PLUMBING FIXTURES

16. ALL SANITARY SEWER RISERS SHALL HAVE CLEANOUT AT THE BASE (WALL CLEANOUT OR FLOOR CLEANOUT)

17. ALL STORM DRAIN PIPING SHALL HAVE CLEANOUT PLUGS AT EACH 90° TURN ABV CEILINGS AND HAVE A FLOOR OR WALL CLEANOUT AT THE BASE OF ALL RISERS.

18. INSTALL PIPING EXPANSION JOINTS IN ALL PIPING THAT CROSSES BUILDING EXPANSION JOINTS. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND PLUMBING ROOF PLAN FOR BUILDING EXPANSION JOINT LOCATIONS.

19. TWO-WAY CLEANOUTS SHALL BE INSTALLED AT THE JUNCTION OF THE BUILDING DRAIN AND THE BUILDING SEWER (TYP ALL AREAS) - MUST BE INSTALLED TO MEET PLUMBING CODES, EVEN IF NOT SHOWN ON DRAWING - VERIFY AND COORDINATE WITH CIVIL UTILITY DRAWINGS.

PLUMBING LEGEND

SYMBOL	DESCRIPTION		
———	SOIL, WASTE, OR SANITARY SEWER	——‖——	UNION
——SS——	SANITARY SEWER (ON SITE)	FD	FLOOR DRAIN
- - - - - - - -	SANITARY VENT	RD	ROOF DRAIN
——CWV——	COMBINATION WASTE AND VENT	AD	ACCESS DOOR
——W——	WATER (ON SITE)	VTR	VENT THRU ROOF
—— - ——	COLD WATER	HB	HOSE BIBB
—— - - ——	HOT WATER	FPWH	FREEZE PROOF WALL HYDRANT
—— - - - ——	HOT WATER RETURN	CO	CLEANOUT PLUG
——SD——	STORM DRAIN	FCO	FLOOR CLEANOUT
——D——	INDIRECT DRAIN	AFCO	FLOOR CLEANOUT WITH ACID RESISTANT PIPING AND FITTINGS
——G——	NATURAL GAS (LOW PRESSURE GAS)	WCO	WALL CLEANOUT
——►——	FLOW DIRECTION	ECO	EXTERIOR CLEANOUT
	GATE VALVE	R / 1	DENOTES - SANITARY VENT STACK THRU ROOF
	GLOBE VALVE	RISER DIAGRAM LOCATION SHEET # / RISER DIAGRAM #	RISER DESIGNATION
	CHECK VALVE		NEW CONNECTION TO EXISTING
	BALL VALVE	×—×—×—×	EXISTING PIPING TO BE REMOVED OR ABANDONED
	PLUG COCK - GAS COCK	———	EXISTING PIPING TO REMAIN
	PRESSURE REDUCING VALVE	×—×—[	CAP AND SEAL AIR OR WATER TIGHT
	STRAINER	×—×—‖◄	TERMINATION POINT OF DEMOLITION

FIXTURE LEGEND

SYMBOL	DESCRIPTION
	NEW FIXTURE
	ROUGH IN AND FINAL CONNECT ONLY
	EXISTING FIXTURE TO REMAIN
	EXISTING FIXTURE TO BE REMOVED
	EXISTING FIXTURE (RELOCATED, OR REPAIRED - SEE NOTES)

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 11043 MARCUS D. CATES

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PLUMBING GENERAL NOTES AND LEGENDS

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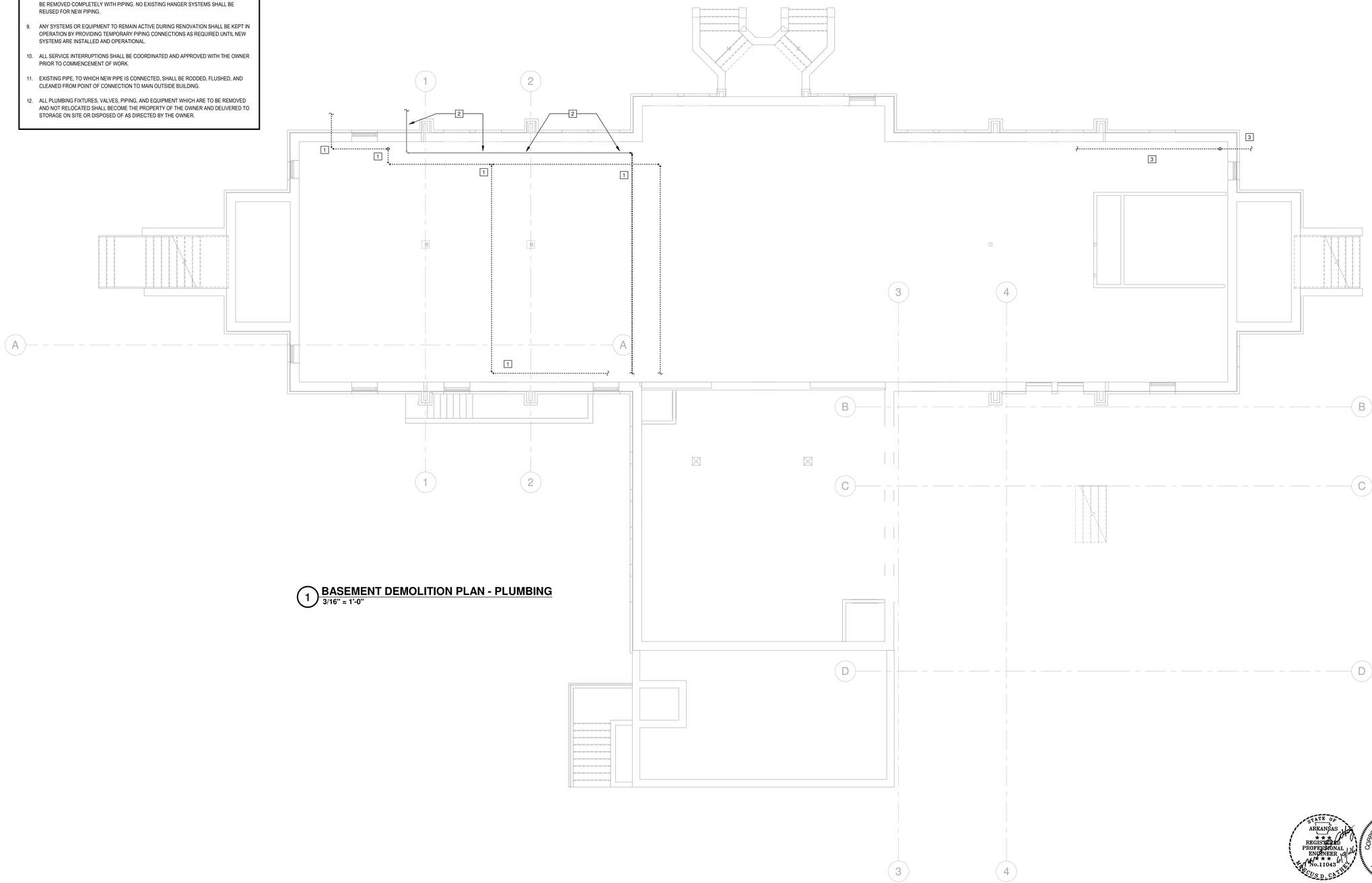
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GENERAL PLUMBING DEMOLITION NOTES

1. ALL EXISTING PIPING AND EQUIPMENT SHOWN HAS BEEN TAKEN FROM THE BEST AVAILABLE EXISTING INFORMATION AND SITE VISITS. THE DRAWINGS ARE DIAGRAMMATIC AND ALL FIXTURES, PIPING, AND DEVICES MAY NOT BE SHOWN.
2. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING SYSTEMS AND CONDITIONS IN AREAS OF RENOVATION. FIELD VERIFY EXISTING PLUMBING FIXTURE AND PIPING LOCATIONS, TYPES, SIZES, ETC.
3. THE PLUMBING CONTRACTOR SHALL ALSO REVIEW THE ARCHITECTURAL DEMOLITION DRAWINGS AS PART OF THIS CONTRACT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
4. THE PLUMBING CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH THAT OF OTHER TRADES IN ORDER TO AVOID CONFLICTS.
5. THE PLUMBING CONTRACTOR SHALL REMOVE ALL PLUMBING FIXTURES, PIPING, CARRIERS, TRIM, ACCESSORIES, EQUIPMENT, FLOOR DRAINS, AND PIPING AS SHOWN OR INDICATED ON THE DRAWINGS.
6. ALL PIPING TO BE REMOVED SHALL BE REMOVED TO BELOW FLOOR, ABOVE CEILING, OR IN WALLS BACK TO MAINS OR SHUT OFF VALVES AT MAINS AND PROPERLY CAPPED PER CODE WITHOUT LEAVING DEAD ENDED PIPING.
7. REMOVE ALL EXPOSED EXISTING PIPING WHICH IS DEEMED INOPERABLE AS A RESULT OF THIS CONTRACT UNLESS SHOWN OR NOTED OTHERWISE. NO EQUIPMENT OR DEVICES THAT HAVE BEEN DISCONNECTED OR ABANDONED SHALL REMAIN.
8. ALL PIPING TO BE REMOVED SHALL BE REMOVED COMPLETELY OR AS OTHERWISE SHOWN OR INDICATED ON DRAWINGS. ALL PIPE HANGERS, SLEEVES, RISER CLAMPS, ETC. SHALL BE REMOVED COMPLETELY WITH PIPING. NO EXISTING HANGER SYSTEMS SHALL BE REUSED FOR NEW PIPING.
9. ANY SYSTEMS OR EQUIPMENT TO REMAIN ACTIVE DURING RENOVATION SHALL BE KEPT IN OPERATION BY PROVIDING TEMPORARY PIPING CONNECTIONS AS REQUIRED UNTIL NEW SYSTEMS ARE INSTALLED AND OPERATIONAL.
10. ALL SERVICE INTERRUPTIONS SHALL BE COORDINATED AND APPROVED WITH THE OWNER PRIOR TO COMMENCEMENT OF WORK.
11. EXISTING PIPE, TO WHICH NEW PIPE IS CONNECTED, SHALL BE RODDED, FLUSHED, AND CLEANED FROM POINT OF CONNECTION TO MAIN OUTSIDE BUILDING.
12. ALL PLUMBING FIXTURES, VALVES, PIPING, AND EQUIPMENT WHICH ARE TO BE REMOVED AND NOT RELOCATED SHALL BECOME THE PROPERTY OF THE OWNER AND DELIVERED TO STORAGE ON SITE OR DISPOSED OF AS DIRECTED BY THE OWNER.

PLUMBING DEMOLITION KEYED NOTES

1. EXISTING PLUMBING TO BE DEMOLISHED. PREP EXISTING PIPING TO REMAIN FOR CONNECTION TO NEW PIPING. ROD, CLEAN, AND REPAIR EXISTING PIPING AS REQUIRED.
2. EXISTING SANITARY SEWER PIPING TO REMAIN.
3. ALL EXISTING GAS PIPING TO BE DEMOLISHED
4. EXISTING PLUMBING FIXTURE AND ALL ASSOCIATED PIPING TO BE DEMOLISHED.



1 **BASEMENT DEMOLITION PLAN - PLUMBING**
3/16" = 1'-0"

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BASEMENT DEMOLITION PLAN - PLUMBING

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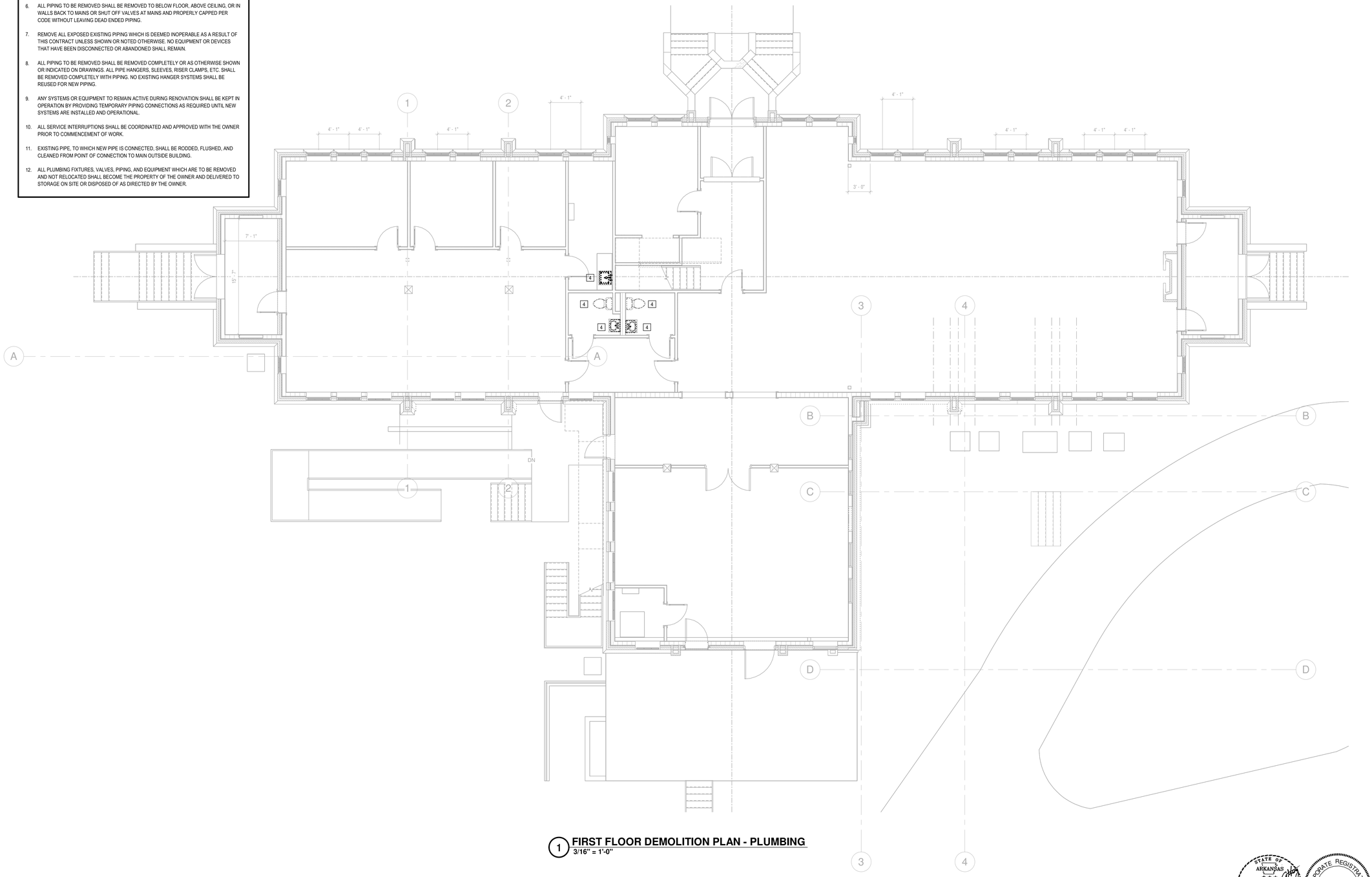
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GENERAL PLUMBING DEMOLITION NOTES

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2. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING SYSTEMS AND CONDITIONS IN AREAS OF RENOVATION. FIELD VERIFY EXISTING PLUMBING FIXTURE AND PIPING LOCATIONS, TYPES, SIZES, ETC.
3. THE PLUMBING CONTRACTOR SHALL ALSO REVIEW THE ARCHITECTURAL DEMOLITION DRAWINGS AS PART OF THIS CONTRACT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
4. THE PLUMBING CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH THAT OF OTHER TRADES IN ORDER TO AVOID CONFLICTS.
5. THE PLUMBING CONTRACTOR SHALL REMOVE ALL PLUMBING FIXTURES, PIPING, CARRIERS, TRIM, ACCESSORIES, EQUIPMENT, FLOOR DRAINS, AND PIPING AS SHOWN OR INDICATED ON THE DRAWINGS.
6. ALL PIPING TO BE REMOVED SHALL BE REMOVED TO BELOW FLOOR, ABOVE CEILING, OR IN WALLS BACK TO MAINS OR SHUT OFF VALVES AT MAINS AND PROPERLY CAPPED PER CODE WITHOUT LEAVING DEAD ENDED PIPING.
7. REMOVE ALL EXPOSED EXISTING PIPING WHICH IS DEEMED INOPERABLE AS A RESULT OF THIS CONTRACT UNLESS SHOWN OR NOTED OTHERWISE. NO EQUIPMENT OR DEVICES THAT HAVE BEEN DISCONNECTED OR ABANDONED SHALL REMAIN.
8. ALL PIPING TO BE REMOVED SHALL BE REMOVED COMPLETELY OR AS OTHERWISE SHOWN OR INDICATED ON DRAWINGS. ALL PIPE HANGERS, SLEEVES, RISER CLAMPS, ETC. SHALL BE REMOVED COMPLETELY WITH PIPING. NO EXISTING HANGER SYSTEMS SHALL BE REUSED FOR NEW PIPING.
9. ANY SYSTEMS OR EQUIPMENT TO REMAIN ACTIVE DURING RENOVATION SHALL BE KEPT IN OPERATION BY PROVIDING TEMPORARY PIPING CONNECTIONS AS REQUIRED UNTIL NEW SYSTEMS ARE INSTALLED AND OPERATIONAL.
10. ALL SERVICE INTERRUPTIONS SHALL BE COORDINATED AND APPROVED WITH THE OWNER PRIOR TO COMMENCEMENT OF WORK.
11. EXISTING PIPE, TO WHICH NEW PIPE IS CONNECTED, SHALL BE RODDED, FLUSHED, AND CLEANED FROM POINT OF CONNECTION TO MAIN OUTSIDE BUILDING.
12. ALL PLUMBING FIXTURES, VALVES, PIPING, AND EQUIPMENT WHICH ARE TO BE REMOVED AND NOT RELOCATED SHALL BECOME THE PROPERTY OF THE OWNER AND DELIVERED TO STORAGE ON SITE OR DISPOSED OF AS DIRECTED BY THE OWNER.

PLUMBING DEMOLITION KEYED NOTES

1. EXISTING PLUMBING TO BE DEMOLISHED. PREP EXISTING PIPING TO REMAIN FOR CONNECTION TO NEW PIPING. ROD, CLEAN, AND REPAIR EXISTING PIPING AS REQUIRED.
2. EXISTING SANITARY SEWER PIPING TO REMAIN.
3. ALL EXISTING GAS PIPING TO BE DEMOLISHED
4. EXISTING PLUMBING FIXTURE AND ALL ASSOCIATED PIPING TO BE DEMOLISHED.



1 **FIRST FLOOR DEMOLITION PLAN - PLUMBING**
3/16" = 1'-0"

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 11043
ANGUS D. CATHEY
6/9/26

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FIRST FLOOR DEMOLITION PLAN - PLUMBING

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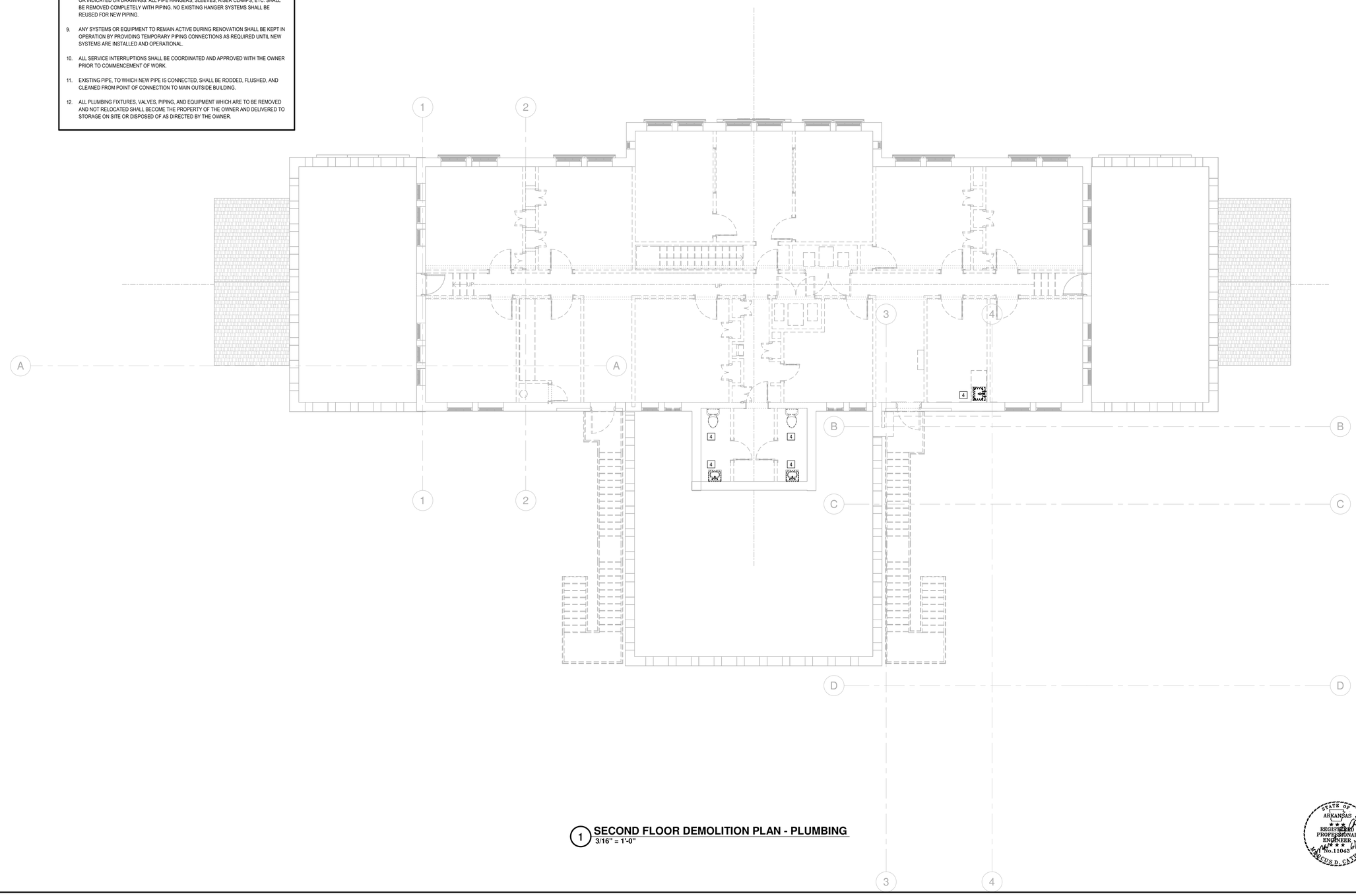
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GENERAL PLUMBING DEMOLITION NOTES

1. ALL EXISTING PIPING AND EQUIPMENT SHOWN HAS BEEN TAKEN FROM THE BEST AVAILABLE EXISTING INFORMATION AND SITE VISITS. THE DRAWINGS ARE DIAGRAMMATIC AND ALL FIXTURES, PIPING, AND DEVICES MAY NOT BE SHOWN.
2. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING SYSTEMS AND CONDITIONS IN AREAS OF RENOVATION. FIELD VERIFY EXISTING PLUMBING FIXTURE AND PIPING LOCATIONS, TYPES, SIZES, ETC.
3. THE PLUMBING CONTRACTOR SHALL ALSO REVIEW THE ARCHITECTURAL DEMOLITION DRAWINGS AS PART OF THIS CONTRACT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
4. THE PLUMBING CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH THAT OF OTHER TRADES IN ORDER TO AVOID CONFLICTS.
5. THE PLUMBING CONTRACTOR SHALL REMOVE ALL PLUMBING FIXTURES, PIPING, CARRIERS, TRIM, ACCESSORIES, EQUIPMENT, FLOOR DRAINS, AND PIPING AS SHOWN OR INDICATED ON THE DRAWINGS.
6. ALL PIPING TO BE REMOVED SHALL BE REMOVED TO BELOW FLOOR, ABOVE CEILING, OR IN WALLS BACK TO MAINS OR SHUT OFF VALVES AT MAINS AND PROPERLY CAPPED PER CODE WITHOUT LEAVING DEAD ENDED PIPING.
7. REMOVE ALL EXPOSED EXISTING PIPING WHICH IS DEEMED INOPERABLE AS A RESULT OF THIS CONTRACT UNLESS SHOWN OR NOTED OTHERWISE. NO EQUIPMENT OR DEVICES THAT HAVE BEEN DISCONNECTED OR ABANDONED SHALL REMAIN.
8. ALL PIPING TO BE REMOVED SHALL BE REMOVED COMPLETELY OR AS OTHERWISE SHOWN OR INDICATED ON DRAWINGS. ALL PIPE HANGERS, SLEEVES, RISER CLAMPS, ETC. SHALL BE REMOVED COMPLETELY WITH PIPING. NO EXISTING HANGER SYSTEMS SHALL BE REUSED FOR NEW PIPING.
9. ANY SYSTEMS OR EQUIPMENT TO REMAIN ACTIVE DURING RENOVATION SHALL BE KEPT IN OPERATION BY PROVIDING TEMPORARY PIPING CONNECTIONS AS REQUIRED UNTIL NEW SYSTEMS ARE INSTALLED AND OPERATIONAL.
10. ALL SERVICE INTERRUPTIONS SHALL BE COORDINATED AND APPROVED WITH THE OWNER PRIOR TO COMMENCEMENT OF WORK.
11. EXISTING PIPE, TO WHICH NEW PIPE IS CONNECTED, SHALL BE RODDED, FLUSHED, AND CLEANED FROM POINT OF CONNECTION TO MAIN OUTSIDE BUILDING.
12. ALL PLUMBING FIXTURES, VALVES, PIPING, AND EQUIPMENT WHICH ARE TO BE REMOVED AND NOT RELOCATED SHALL BECOME THE PROPERTY OF THE OWNER AND DELIVERED TO STORAGE ON SITE OR DISPOSED OF AS DIRECTED BY THE OWNER.

PLUMBING DEMOLITION KEYED NOTES

1. EXISTING PLUMBING TO BE DEMOLISHED. PREP EXISTING PIPING TO REMAIN FOR CONNECTION TO NEW PIPING. ROD, CLEAN, AND REPAIR EXISTING PIPING AS REQUIRED.
2. EXISTING SANITARY SEWER PIPING TO REMAIN.
3. ALL EXISTING GAS PIPING TO BE DEMOLISHED
4. EXISTING PLUMBING FIXTURE AND ALL ASSOCIATED PIPING TO BE DEMOLISHED.



1 **SECOND FLOOR DEMOLITION PLAN - PLUMBING**
3/16" = 1'-0"

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.11043 JAMES D. CASTLE 9/19/25

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SECOND FLOOR DEMOLITION PLAN - PLUMBING

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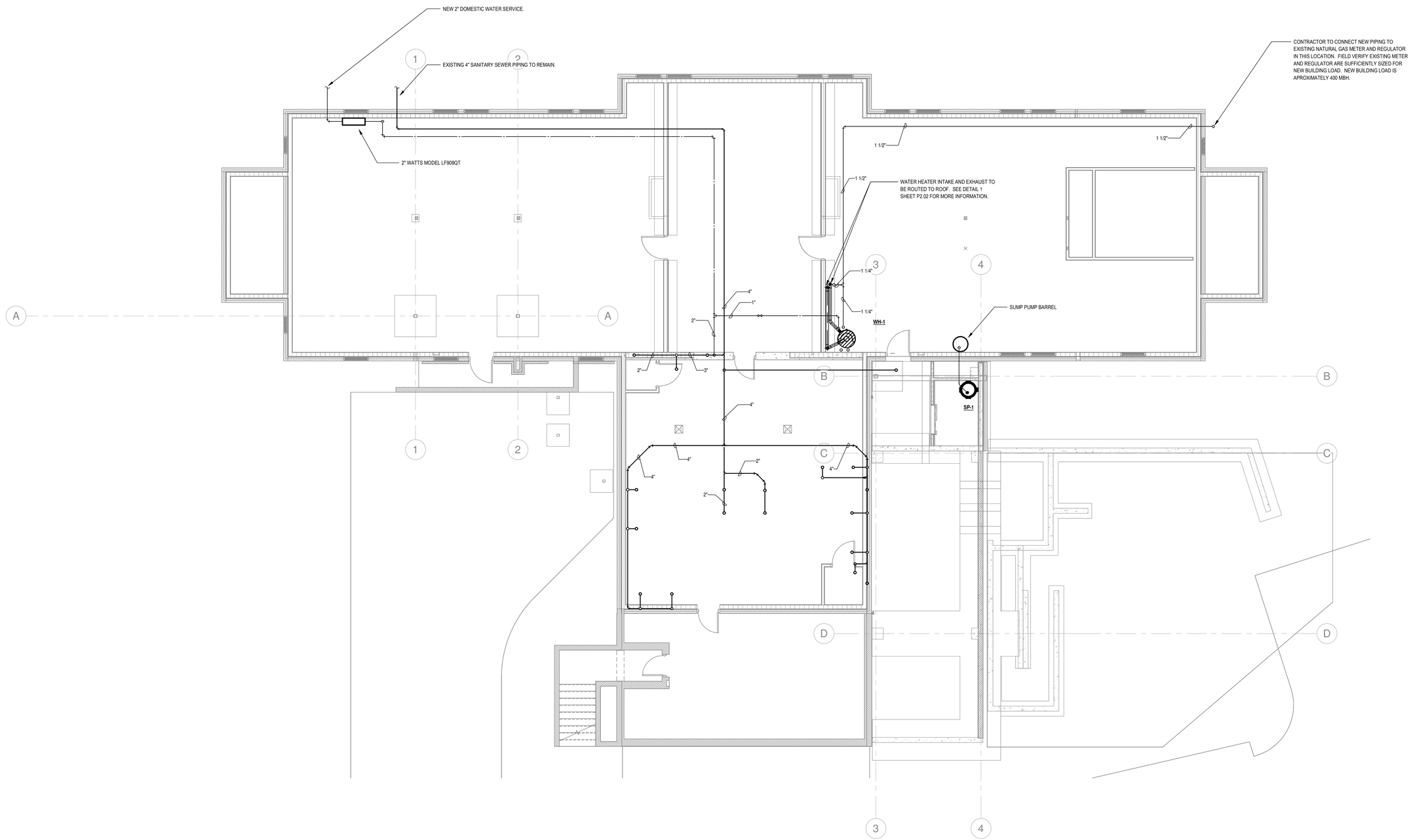
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1 **BASEMENT PLAN - PLUMBING**
3/16" = 1'-0"

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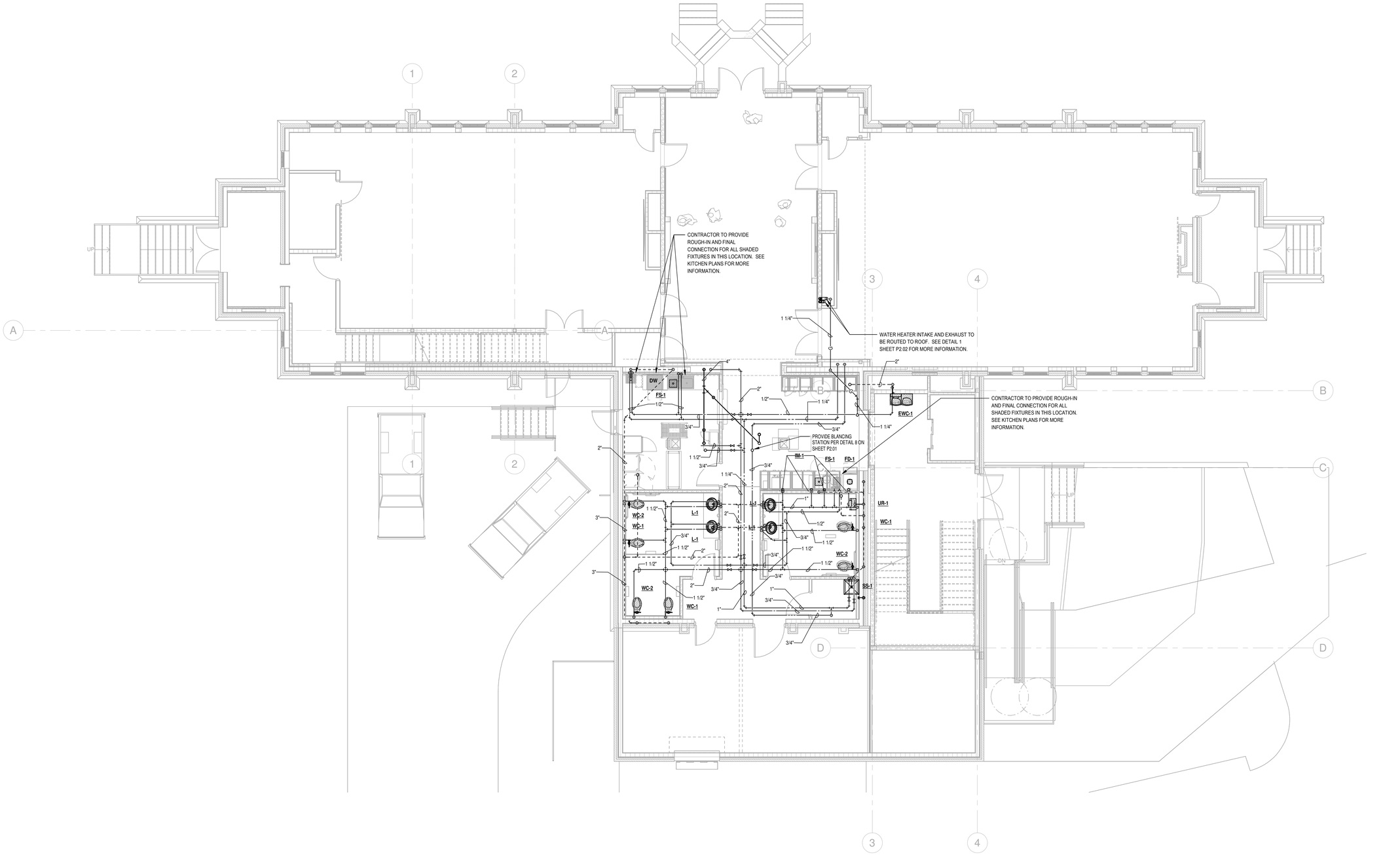
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1 FIRST FLOOR PLAN - PLUMBING
3/16" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER
No. 11043
MARCUS D. CATHEY

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FIRST FLOOR PLAN - PLUMBING

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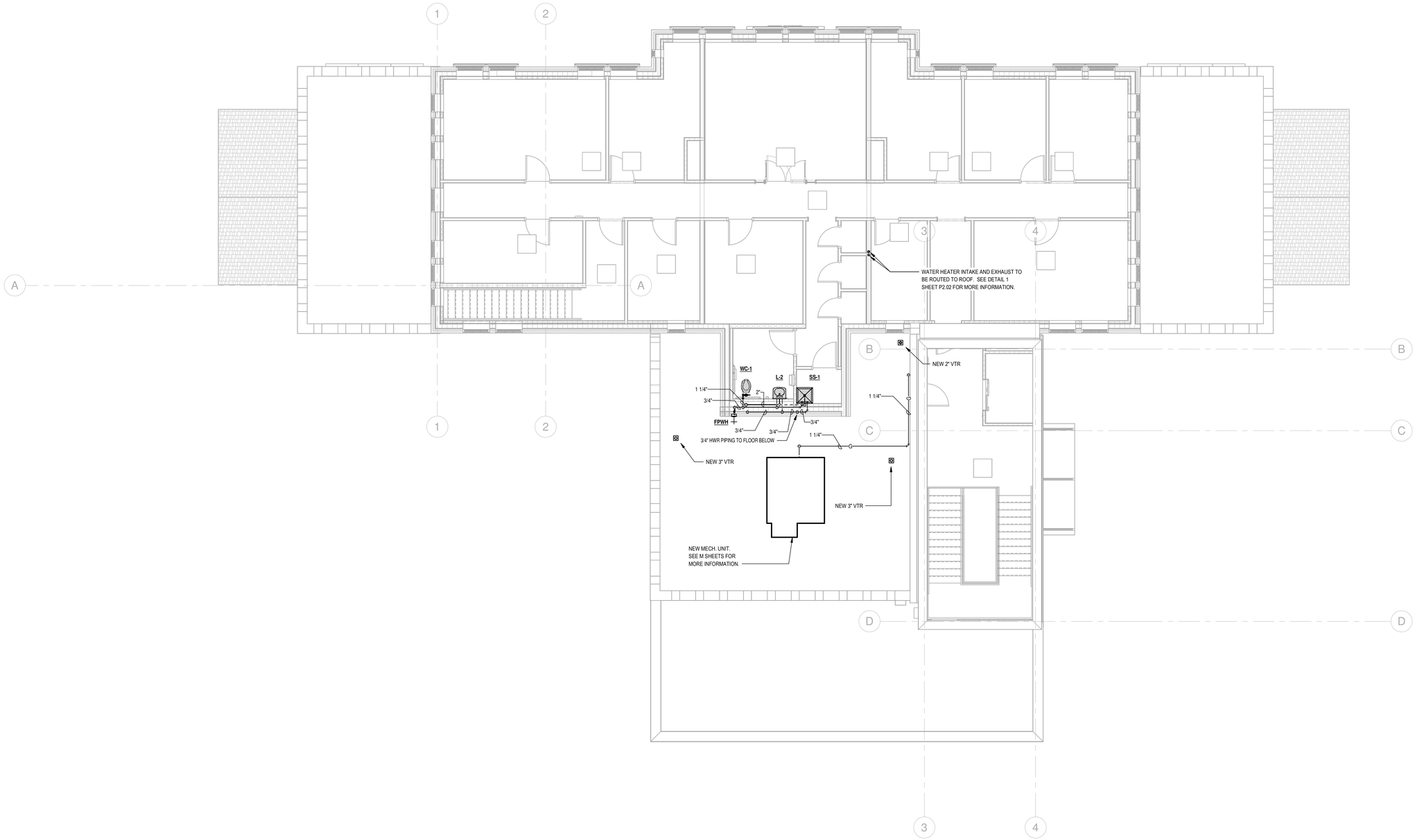
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1 SECOND FLOOR PLAN - PLUMBING
3/16" = 1'-0"

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No. 11043
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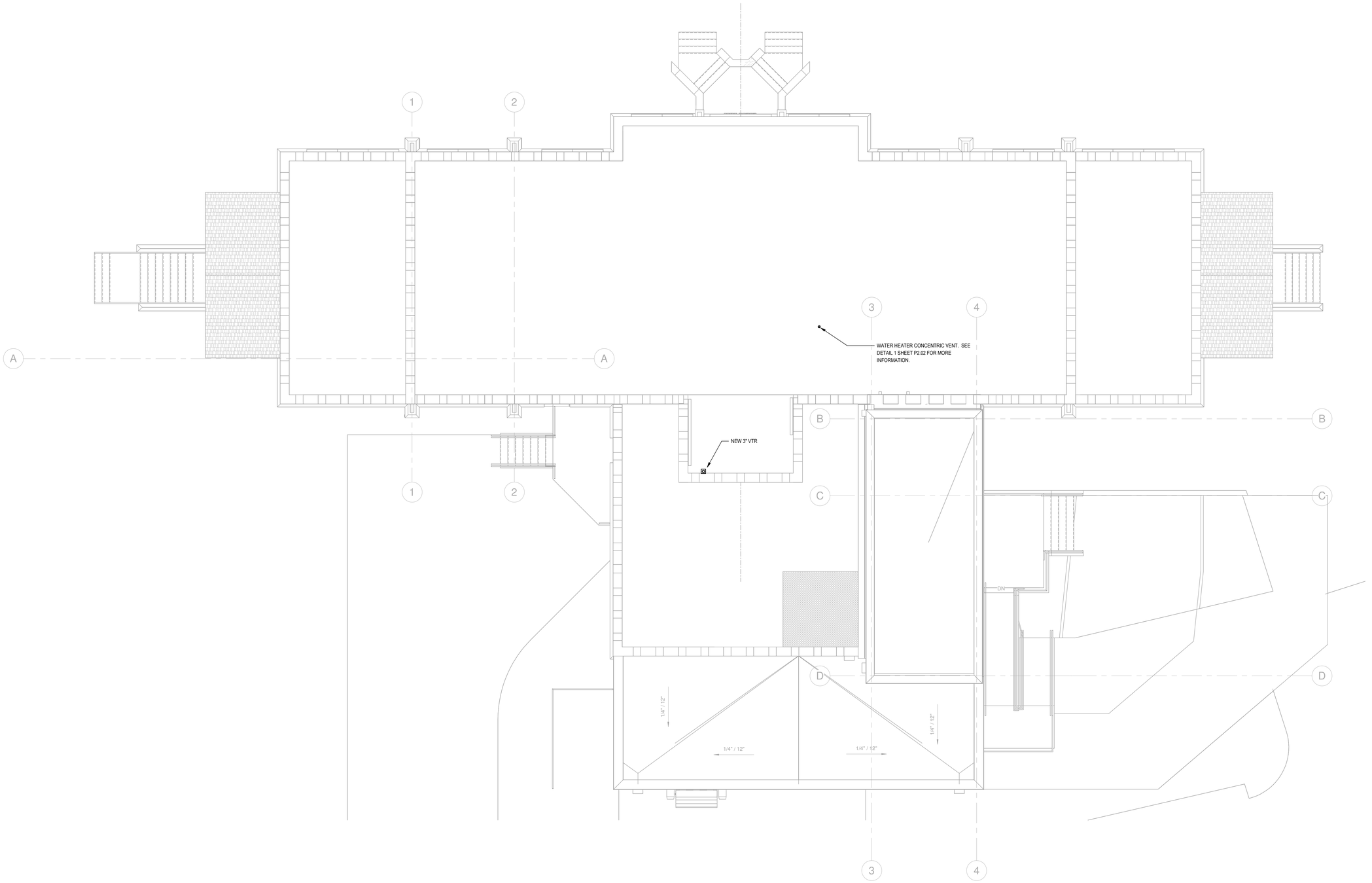
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1 **ROOF PLAN - PLUMBING**
3/16" = 1'-0"

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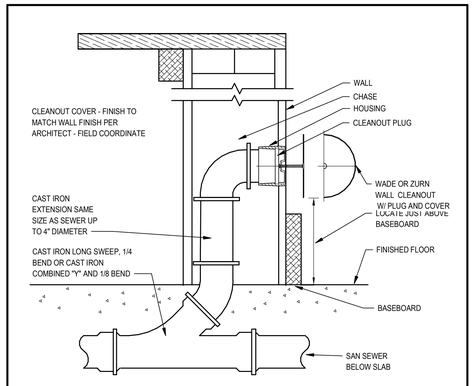
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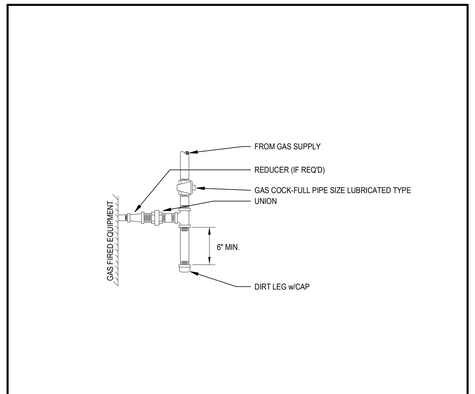
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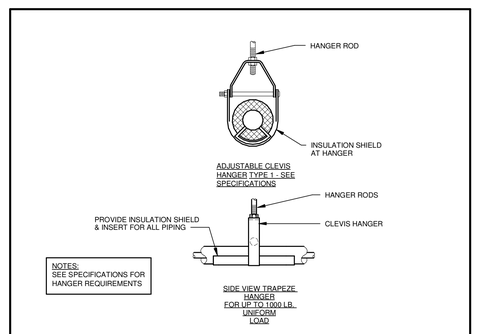
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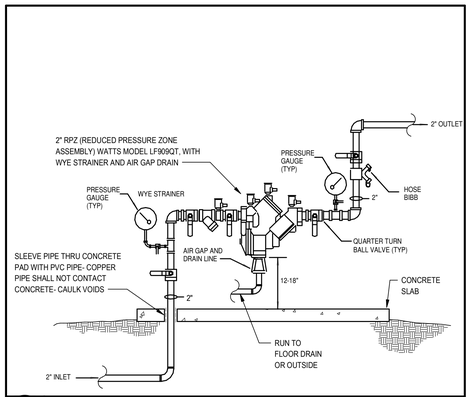
1 WALL CLEANOUT DETAIL
SCALE: NONE



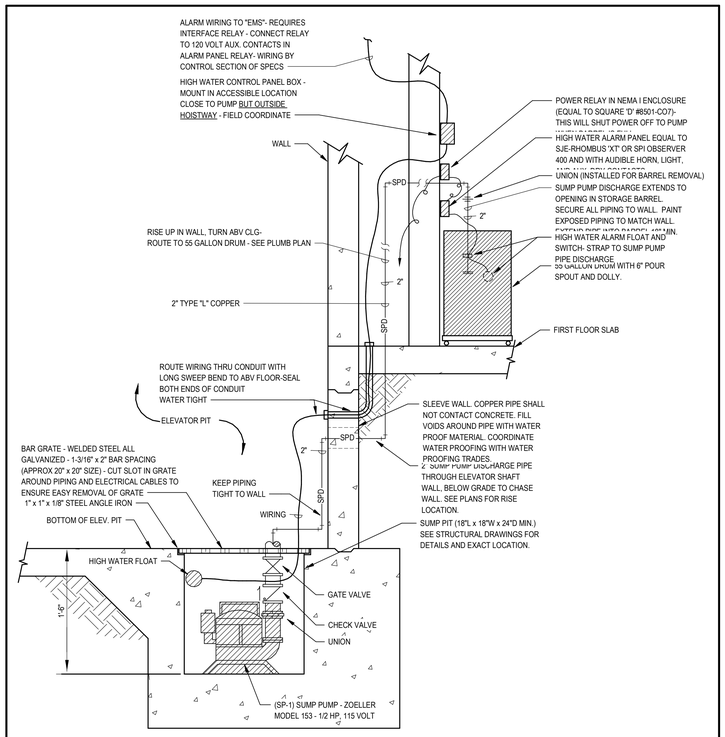
2 GAS CONNECTION DETAIL
SCALE: NONE



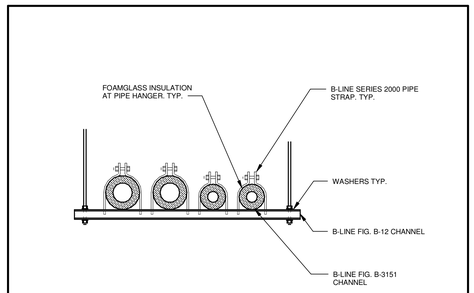
3 PIPING HANGER DETAIL
N.T.S.



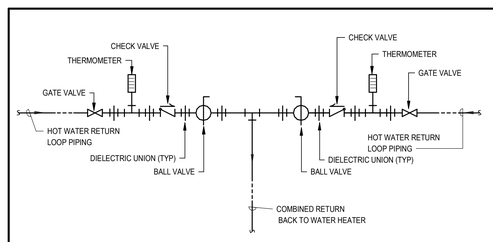
4 REDUCED PRESSURE ZONE ASSEMBLY
SCALE: NONE



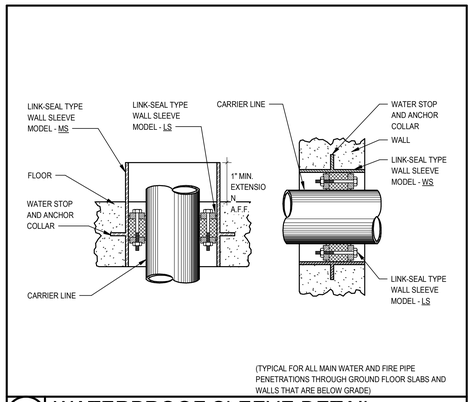
5 SUMP PUMP (SP-1) AT HYDRAULIC ELEVATOR
SCALE: NONE



6 PIPING SUPPORT DETAIL
N.T.S.



8 DOMESTIC HOT WATER RETURN BALANCE STATION DETAIL (TYPICAL)
SCALE: NONE



(TYPICAL FOR ALL MAIN WATER AND FIRE PIPE PENETRATIONS THROUGH GROUND FLOOR SLABS AND WALLS THAT ARE BELOW GRADE)

7 WATERPROOF SLEEVE DETAIL
SCALE: NONE

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 11043 MARCUS D. CASTLE

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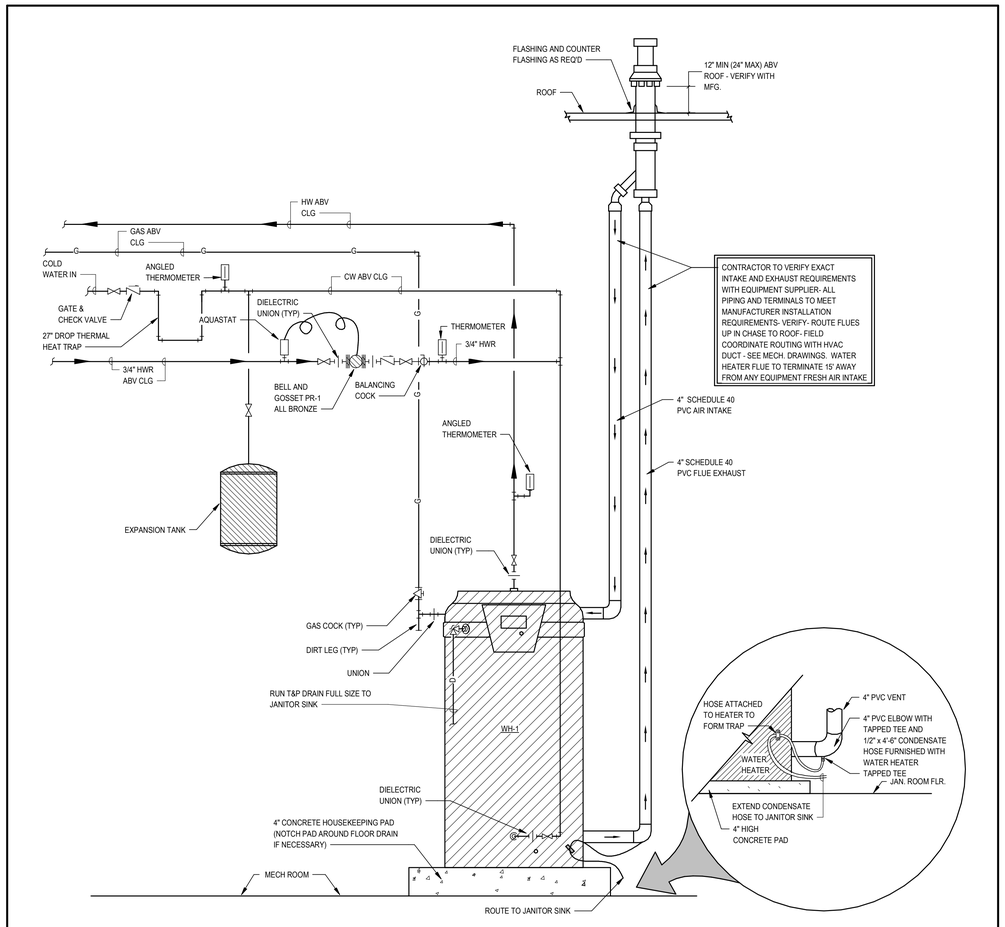
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1 GAS WATER HEATER (GWH-1) PIPING DETAIL

SCALE: NONE

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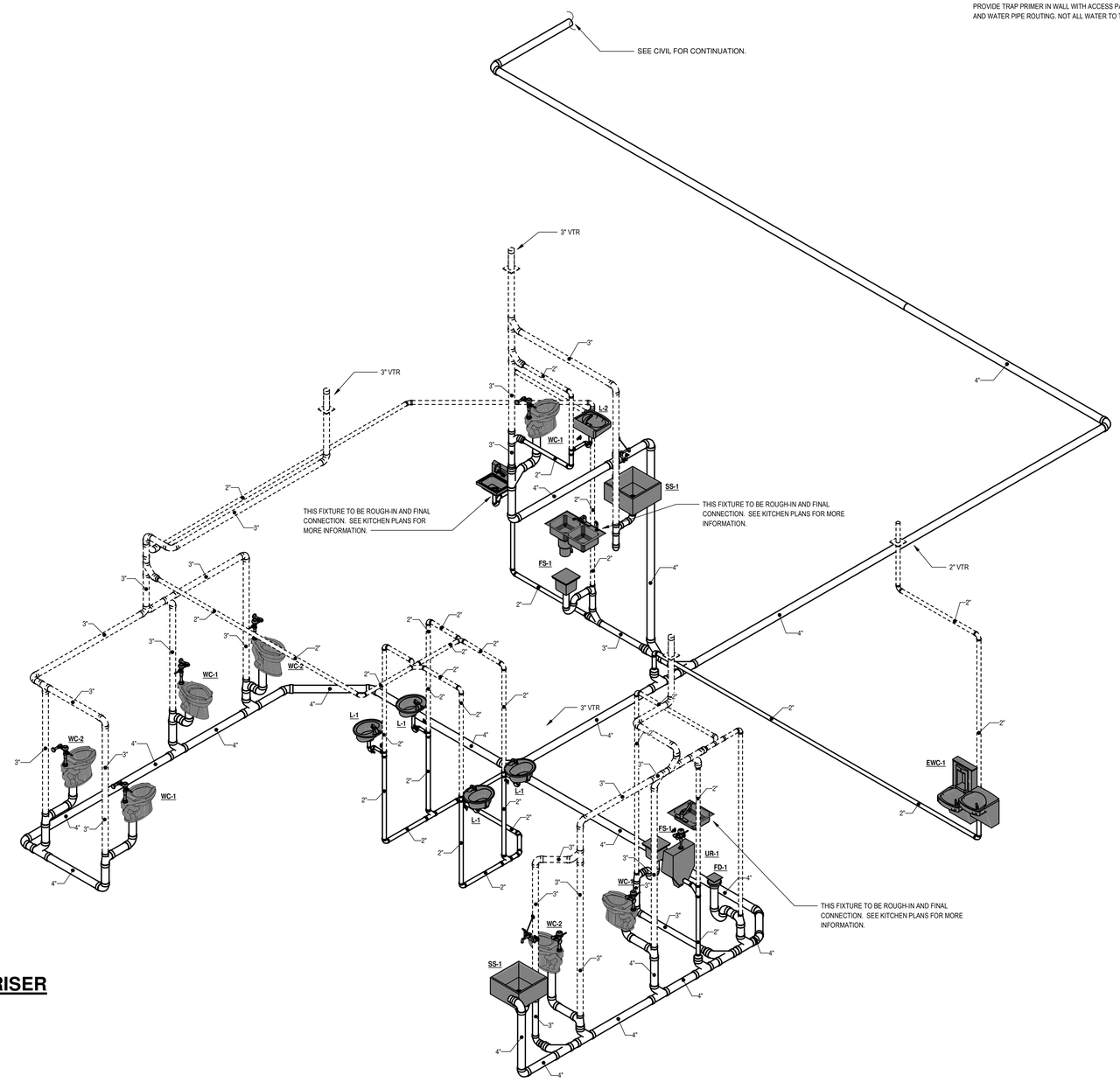
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NOTE: ALL FLOOR DRAINS SHALL HAVE TRAP PRIMERS. LOCATE TRAP PRIMER DEVICES IN MECHANICAL ROOMS AND JANITORS CLOSETS WHERE PRACTICAL. IN FINISHED AREAS PROVIDE TRAP PRIMER IN WALL WITH ACCESS PANELS. FIELD VERIFY EXACT LOCATIONS AND WATER PIPE ROUTING. NOT ALL WATER TO TRAP PRIMER IS SHOWN.



R 1 **WASTE AND VENT RISER**

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PLUMBING FIXTURE SCHEDULE

TYPE MARK	- MANUFACTURER -	- MODEL -	- DESCRIPTION -	- ADA COMPLIANT -	- TRIM -	- SUPPLIES -	- TRAP -	- SUPPORT -	- REMARKS -	CW SUPPLY	VENT	WASTE
	<varies>	<varies>	<varies>	YES	<varies>	<varies>	<varies>	<varies>		1/2	2	2
EWC-1	ELKAY	LZSTL8WSSK	BOTTLE FILLING STATION AND BI-LEVEL ADA COOLER FILTERED REFRIGERATED STAINLESS. CHILLING CAPACITY OF 8.0 GPH OF 50 DEGREE F DRINKING WATER, BASED ON 80 DEGREE F INLET WATER AND 90 DEGREE F AMBIENT PER ASHRAE 18 TESTING. ANTIMICROBIAL, FILTERED, HANDS FREE, LAMINAR FLOW, ELECTRONIC BOTTLE FILLER SENSOR WITH ELECTRONIC FRONT AND SIDE BUBBLER PUSHBAR ACTIVATION. WALL MOUNT	YES	MCGUIRE LFST17K	MCGUIRE H-ST12LK HEAVY CAST BRASS STRAIGHT STOP WITH LOOSE KEY HANDLE, 1/2 INCH SIZE.	MCGUIRE 8088	WADE 403 DRINKING FOUNTAIN / WATER COOLER CARRIER		1/2	2	2
L-1	KOHLER	K-2196	PENNINGTON® SELF-RIMMING LAVATORY, 20 INCH BY 17 INCH SIZE, VITREOUS CHINA, OVAL BASIN, FRONT OVERFLOW, WITH SINGLE HOLE CENTER.	YES	T&S BRASS MODEL B-2711-VF05, DECK MOUNTED SINGLE LEVER FAUCET, CHROME PLATED BRASS BODY WITH INTEGRAL SPOUT, B-0199-BF05 0.4 GPM VANDAL RESISTANT AERATOR, CERAMIC CARTRIDGE WITH ADJUSTABLE TEMPERATURE LIMIT STOP, MCGUIRE 155-A DRAIN WITH PERFORATED STRAINER AND 1-1/4 INCH TAILPIECE, ACORN T-70 THERMOSTATIC MIXING VALVE.	MCGUIRE H2167LK 1/2 INCH IPS HEAVY CAST BRASS ANGLE STOP, LOOSE KEY HANDLE, ANNEALED VERTICAL TUBE, CHROME PLATED CAST BRASS SET SCREW ESCUTCHEON, C.P. BRASS NIPPLE TO WALL.	MCGUIRE 8872 (1-1/4 INCH) POLISHED CHROME PLATED CAST BRASS ADJUSTABLE 'P' TRAP WITH CLEANOUT AND 17-GAGE TUBING TO WALL WITH C.P. CAST BRASS SET SCREW ESCUTCHEON.	COUNTER MOUNTED	NOTE: ALL EXPOSED SUPPLY (HOT AND COLD WATER) AND DRAIN PIPING SHALL BE INSULATED TO MEET ADA REQUIREMENTS. P-TRAP AND ANGLE VALVE ASSEMBLIES SHALL BE COVERED WITH MOLDED, ANTI-MICROBIAL TRUEBRO, INC. 'LAV-GUARD' MODEL #102 (VERIFY EXACT MODEL REQUIRED). COLOR GREY. COVER SHALL BE SECURED WITH SNAP-CLIPS. ANGLE STOPS SHALL HAVE LOCK-LID ACCESS COVERS.	1/2	2	2
L-2	KOHLER	K-2032	'GREENWICH' WALL MOUNTED, 20 INCH BY 18 INCH SIZE, VITREOUS CHINA WITH BACK, RECTANGULAR BASIN, SPLASH LIP, FRONT OVERFLOW AND TWO SOAP DEPRESSIONS.	YES	SLOAN MODEL ETF-600 SENSOR OPERATED FAUCET, ADA COMPLIANT, 0.5 GPM AERATOR, POLISHED CHROME, MCGUIRE 155-A GRID DRAIN, PERFORATED STRAINER AND 1-1/4 INCH TAILPIECE. SLOAN BELOW DECK THERMOSTATIC MIXING VALVE, MODEL EL-154 TRANSFORMER.	MCGUIRE H2167LK 1/2 INCH IPS HEAVY CAST BRASS ANGLE STOP, LOOSE KEY HANDLE, ANNEALED VERTICAL TUBE, CHROME PLATED CAST BRASS SET SCREW ESCUTCHEON, CHROME PLATED BRASS NIPPLE TO WALL.	MCGUIRE 8872 (1-1/4 INCH) POLISHED CHROME PLATED CAST BRASS ADJUSTABLE 'P' TRAP WITH CLEANOUT AND 17-GAGE TUBING TO WALL WITH CHROME PLATED CAST BRASS SET SCREW ESCUTCHEON.	ZURN Z-1231 CONCEALED ARM CARRIER HAVING STEEL UPRIGHTS WITH ADJUSTABLE HEADERS.	ALL EXPOSED SUPPLY (HOT AND COLD WATER) AND DRAIN PIPING SHALL BE INSULATED TO MEET ADA REQUIREMENTS. P-TRAP AND ANGLE VALVE ASSEMBLIES SHALL BE COVERED WITH MOLDED, ANTI-MICROBIAL TRUEBRO, INC. 'LAV-GUARD' MODEL #102 (VERIFY EXACT MODEL REQUIRED). COVER SHALL BE SECURED WITH SNAP-CLIPS. ANGLE STOPS SHALL HAVE LOCK-LID ACCESS COVERS.	1/2	2	2
SS-1	STERN WILLIAMS	SB-900	'SERVICEPTOR' MOP SINK, 24 INCH X 24 INCH X 12 INCH, PRECAST TERRAZZO, WITH ONE PIECE STAINLESS STEEL CAST INTEGRAL CAP ON ALL FOUR SIDES AND INTEGRAL CAST BRASS DRAIN WITH S.S. STRAINER, 3 INCH OUTLET. PROVIDE 'T-40' MOP HANGER, 'T-35' HOSE, AND 'BP' STAINLESS STEEL BACK SPLASH PANELS.		T&S B-0665-BSTP FAUCET, POLISHED CHROME FINISH, INTEGRAL STOPS, TOP BRACE, LEVER HANDLES, VACUUM BREAKER, 8 INCH CENTERS.		CAST IRON 3 INCH SIZE, DEEP SEAL TYPE BELOW FLOOR.	FLOOR MOUNTED		3/4	2	3
UR-1	KOHLER	K-4991-ET	BARDON™ URINAL, VITREOUS CHINA, WASH OUT WITH 3/4 INCH TOP SPUD, 0.5 GPF, EXTENDED RIM.	YES	SLOAN 186-0.5-YB-YC 'REGAL' EXPOSED FLUSH VALVE, NON-HOLD OPEN HANDLE, 1 INCH I.P.S. SCREWDRIVER ANGLE STOP, VACUUM BREAKER FLUSH CONNECTION, 1-1/2 INCH TOP SPUD, SWEAT SOLDER ADAPTOR, CAST WALL FLANGE WITH SET SCREW, SOLID RING PIPE SUPPORT AND 0.5 GALLON FLUSH CYCLE.		INTEGRAL WITH FIXTURE	ZURN Z-1222 'RIGID PLATE SYSTEM' HAVING STEEL UPRIGHTS WITH SUPPORT PLATES, AND BEARING JACKS ON ADJUSTABLE HEADERS.	24 INCH STANDARD INSTALLATION, 17 INCH MAX ADA INSTALLATION.	1	2	2
WC-1	KOHLER	K-96053	WELLCOMME' ULTRA, VITREOUS CHINA, SIPHON JET, 1.6 GPF, 12 INCH ROUGH IN, ELONGATED RIM, FLOOR MOUNTED, 1-1/2 INCH TOP SPUD BOWL, BOLT CAPS. OLSONITE 95-SS 'INDUSTRIAL' SEAT- FINISH WHITE, EXTRA HEAVY DUTY PLASTIC FOR ELONGATED BOWL, OPEN FRONT WITH CONCEALED CHECK HINGE, SELF-SUSTAINING FEATURE AND STAINLESS STEEL HINGE POST.	NO	SLOAN 111-1.28-XL "REGAL" EXPOSED FLUSH VALVE, ANGLE STOP, VACUUM BREAKER, 1-1/2" TOP SPUD - 1.28 GPF, WALL FLANGE, SET SCREW.		INTEGRAL WITH FIXTURE	FLOOR MOUNTED		1-1/4	2	4
WC-2	KOHLER	K-96057	HIGHCLIFF' ULTRA, VITREOUS CHINA, SIPHON JET, 1.6 GPF, 12 INCH ROUGH IN, ELONGATED RIM, FLOOR MOUNTED, 1-1/2 INCH TOP SPUD BOWL, BOLT CAPS. OLSONITE 95-SS 'INDUSTRIAL' SEAT- FINISH WHITE, EXTRA HEAVY DUTY PLASTIC FOR ELONGATED BOWL, OPEN FRONT WITH CONCEALED CHECK HINGE, SELF-SUSTAINING FEATURE AND STAINLESS STEEL HINGE POST.	YES	SLOAN 111-1.28-XL "REGAL" EXPOSED FLUSH VALVE, ANGLE STOP, VACUUM BREAKER, 1-1/2" TOP SPUD - 1.28 GPF, WALL FLANGE, SET SCREW.		INTEGRAL WITH FIXTURE	FLOOR MOUNTED	PROVIDE SLOAN MODEL VBF-72-A VACUUM BREAKER TRAP PRIMER ACCESSORY AS REQUIRED IN RESTROOMS WITH FLOOR DRAIN.	1-1/4	2	4

GAS WATER HEATER SCHEDULE

TYPE MARK	- MANUFACTURER -	- MODEL -	- DESCRIPTION -	- MBH INPUT -
WH-1	A.O. SMITH	BTH-120A	CYCLONE MXI 60-GALLON CONDENSING COMMERCIAL GAS WATER HEATER WITH MODULATING BURNER. MUST PROVIDE WITH ASME INDICATOR, AND BE SET UP TO RECIEVE NATURAL GAS. ENERGY CERTIFIED UP TO 95% THERMAL EFFICIENCY WITH A SUBMERGED COMBUSTION CHAMBER, AND HELICAL HEAT EXCHANGER. PROVIDE WITH B&G PRAB ALL BRONZE RECIRCULATING PUMP RATED FOR 1/6 HP.	120 MBH

PLUMBING SPECIALTIES

TYPE MARK	- MANUFACTURER -	- MODEL -	- DESCRIPTION -	- REMARKS -
FD-1	ZURN	ZN-415I-P	CAST IRON DRAIN, 7" POLISHED NICKEL BRONZE "TYPE I" STRAINER WITH RAISED FLANGE, 1/2" TRAP PRIMER CONNECTION.	ALL FLOOR DRAINS SHALL BE ACCESSORIZED FOR VANDAL PROOF INSTALLATION AND SHALL HAVE TRAP PRIMERS.
FPWH	ZURN	Z-1300	ECOLOTROL' ANTI-SIPHON, NON-FREEZE, 3/4 INCH SIZE NICKEL BRONZE CASING AND ALL BRONZE INTERIOR PARTS AND NON TURNING OPERATING ROD WITH FREE FLOATING COMPRESSION CLOSURE VALVE. NICKEL BRONZE FACE, INTEGRAL BACKFLOW PREVENTER, UNION ELBOW INLET, WALL CLAMP AND KEY HANDLE. BOX FACE AND HINGED COVER SHALL BE NICKEL BRONZE COMPLETE WITH OPERATING KEY AND 'WATER' CAST ON COVER.	
FS-1	ZURN	ZN-1902-P-11-2-32	CAST IRON 12 INCH X 12 INCH X 12 INCH SQUARE FLOOR SINK WITH 10 INCH SUMP, DEEP CAST IRON BODY AND SQUARE, LIGHT DUTY GRATE A.R.E. INTERIOR, ALUMINUM DOME STRAINER, AND 1/2 NICKEL BRONZE HINGED TOP. 1/2" TRAP PRIMER.	ALL FLOOR SINKS SHALL BE ACCESSORIZED FOR VANDAL PROOF INSTALLATION AND SHALL HAVE TRAP PRIMERS. VERIFY FLOOR SINK LOCATIONS WITH MECHANICAL AND OTHER EQUIPMENT.
IM-1	IPS CORPORATION	88158	GUY GRAY, 11 5/8 INCH X 9 1/2 INCH, 1/2 INCH X 1/4 INCH COMPRESSION ANGLE VALVE, STEEL CONSTRUCTION.	

EQUIPMENT (BY OTHERS) - ROUGH IN AND MAKE FINAL CONNECTIONS FOR EQUIPMENT AS INDICATED ON PLANS. FURNISH MCGUIRE, ZURN, ENGINEERED BRASS CO, OR KOHLER STRAIGHT STOP, (1/2" IPS) OR FEMALE INLET AND OUTLET AND POLISHED CHROMIUM PLATED CAST BRASS, MCGUIRE HEAVY-DUTY (1 1/4" OR 1 1/2") P-TRAP WITH CLEANOUT AND OTHER TRIM AS INDICATED ON PLANS. ALL EXPOSED PIPING SHALL BE CHROME PLATED AND ESCUTCHEONS SHALL BE C.P. CAST BRASS SET SCREW TYPE.

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.11043 MARCUS D. CASTLE

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PLUMBING SCHEDULES

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PROJECT DEMOLITION NOTES

EXISTING ELECTRICAL SYSTEM, SERVICE, AND ASSOCIATED EQUIPMENT TO BE DEMOLISHED COMPLETELY.

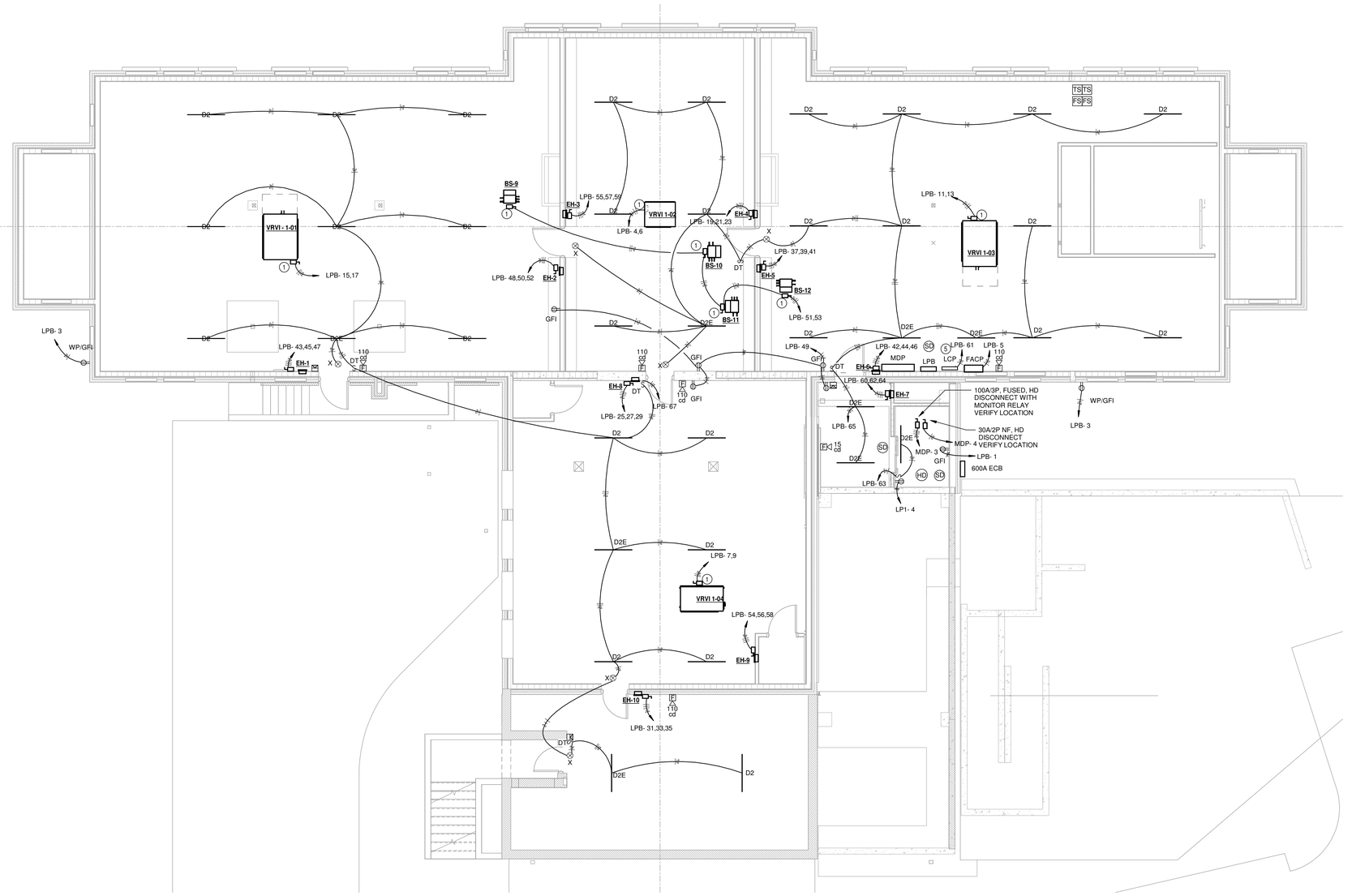
DEMOLISH ALL ELECTRICAL EQUIPMENT, CONDUIT & WIRE, LOW VOLTAGE CABLE ON THE FIRST AND SECOND FLOORS.

THE EXISTING RECEPTACLES IN THE BASEMENT **SHALL REMAIN**. ALL EXISTING CIRCUITS SHALL BE RECONNECTED TO PANEL 'LPB', SEE PANEL SCHEDULES.

DEMOLISH ALL CONDUIT AND WIRE TO ALL DEMOLISHED EXISTING HVAC EQUIPMENT LOCATED IN THE BASEMENT.

ELECT. SYSTEMS KEYED NOTES

1. PROVIDE AND INSTALL A 30A/2P, HD, NF DISCONNECT SWITCH
2. PROVIDE AND INSTALL A 60A/3P, HD, NF, 3R DISCONNECT SWITCH
3. PROVIDE AND INSTALL A 100A/3P, HD, NF, 3R DISCONNECT SWITCH
4. PROVIDE AND INSTALL A 200A/3P, HD, NF, 3R DISCONNECT SWITCH
5. PROVIDE AND INSTALL A LIGHTING CONTROL PANEL. CONNECT THE ROOM CONTROLLERS AS NOTED ON PLANS. PROVIDE ALL PARTS AND PROGRAMMING FOR A COMPLETE SYSTEM.



1 BASEMENT PLAN - ELECTRICAL
3/16" = 1'-0"

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BASEMENT PLAN - ELECTRICAL

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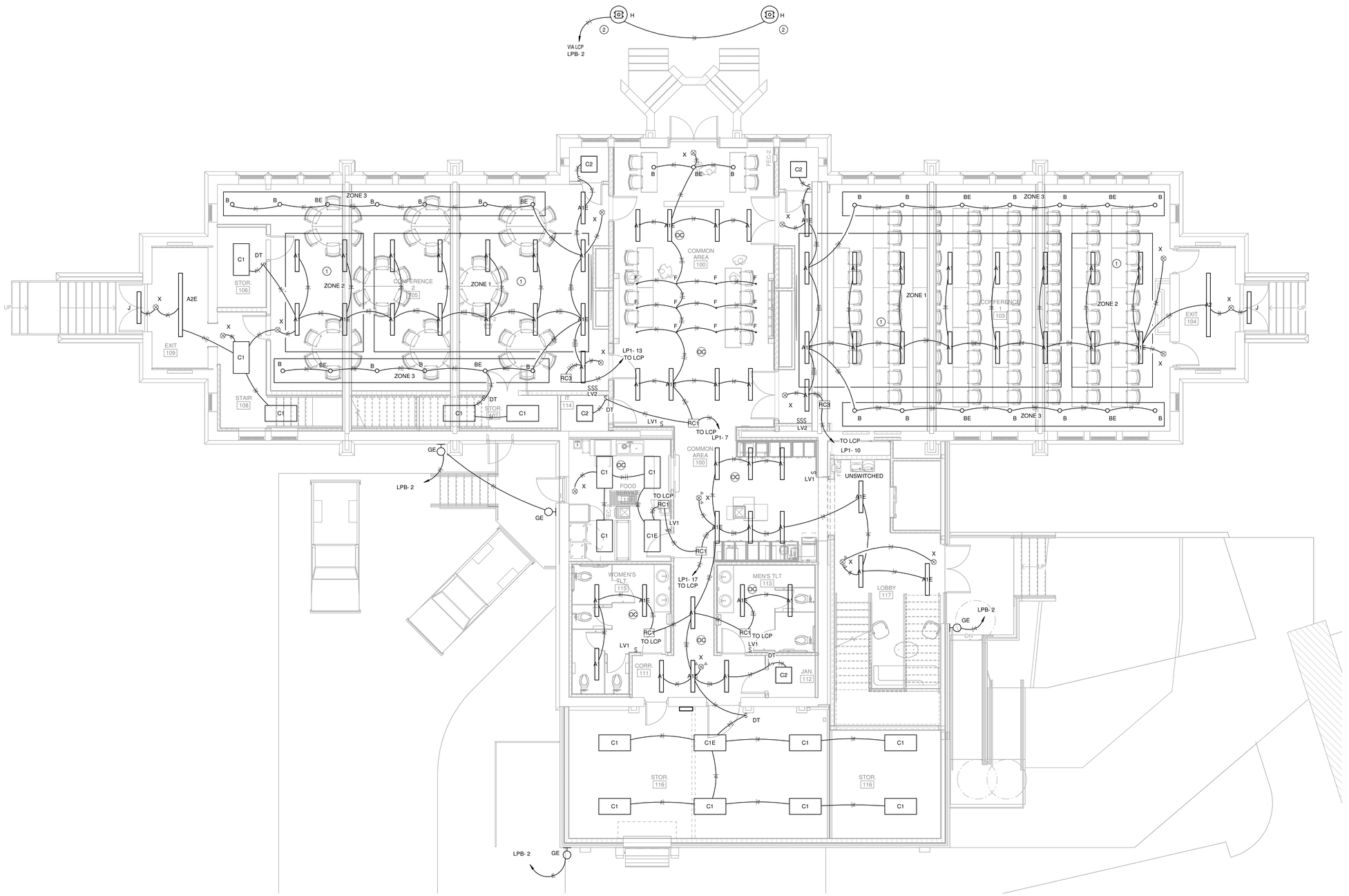
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LIGHT FIXTURE SCHEDULE

TYPE MARK	MANUFACTURER	MODEL	APPARENT POWER	DESCRIPTION
A1	LITHONIA	LSIX 4FT 5000LM 90CRI 35K FFR SWL MIN10 ZT MVOLT CBA	33 VA	4FT LINEAR PANEL
A1E	LITHONIA	LSIX 4FT 5000LM 90CRI 35K FFR SWL MIN10 ZT MVOLT CBA E10WLCP	33 VA	4FT LINEAR PANEL WITH EM BATT
A2	LITHONIA	LSIX 8FT 6000LM 90CRI 35K FFR SWL MIN10 ZT MVOLT CBA	40 VA	8FT LINEAR PANEL
A2E	LITHONIA	LSIX 8FT 6000LM 90CRI 35K FFR SWL MIN10 ZT MVOLT CBA E10WLCP	40 VA	8FT LINEAR PANEL WITH EM BATT
B	LITHONIA	LDN6 35/15 LO6 AR LSS CBA MVOLT GZ10	18 VA	6" CAN
BE	LITHONIA	LDN6 35/15 LO6 AR LSS CBA MVOLT GZ10 E10WCP	18 VA	6" CAN WITH EM BATTERY
C1	LITHONIA	CPX 2X4 5000LM 80CRI 35K SWL MIN10 ZT MVOLT	40 VA	2X4 FLAT PANEL
C1E	LITHONIA	CPX 2X4 5000LM 80CRI 35K SWL MIN10 ZT MVOLT E10W	40 VA	2X4 FLAT PANEL
C2	LITHONIA	CPX 2X2 3200LM 80CRI 35K SWL MIN10 ZT MVOLT	30 VA	2X2 FLAT PANEL
C2E	LITHONIA	CPX 2X2 3200LM 80CRI 35K SWL MIN10 ZT MVOLT E10W	30 VA	2X2 FLAT PANEL
D	LITHONIA	ZL1D L24 2500LM FST MVOLT 35K 80CRI	22 VA	2' STRIP LIGHT
D2	LITHONIA	ZL1D L48 7000LM FST MVOLT 35K 80CRI	59 VA	4' STRIP LIGHT
D2E	LITHONIA	ZL1D L48 7000LM FST MVOLT 35K 80CRI E7W	59 VA	4' STRIP LIGHT WITH EM BATTERY
F	JUNO	2LEDDRIVER G210LM MVOLT ZT 2LEDTRIM G2 DC 35K 80CRI NFL CBA	20 VA	2" CAN - TRIM AND DRIVER ORDERED SEPERATELY
GE	LITHONIA	WPX2 LED 40K MVOLT E4WH PE CBA	47 VA	WALL PACK WITH PHOTOCELL AND EM BATT
H	HOLOPHANE	PSUE3 P50 40K MVOLT ZT MS AL5 CBA DDC	110 VA	12' POLE LIGHT WITH PHOTOCELL
J	LUMINAIRE LED	AEL 24IN NODIM 15W 40K MVOLT DP CBA EMB310ST PC	15 VA	2' WALL MOUNT EGRESS LIGHT WITH BATT AND PHOTOCELL
X	LITHONIA	ECBR LED M6	1 VA	EXIT & EM LIGHT W/ BATTERY BACKUP

LIGHTING KEYED NOTES

1. THIS SPACE SHALL BE DIMMABLE. PROVIDE AND INSTALL 0-10V WIRING FOR THE LIGHTS IN THIS SPACE.
2. FIXTURES SHALL REPLACE EXISTING POLE FIXTURES. EXISTING CONCRETE BASE SHALL BE DEMOED. REPLACE WITH A NEW FLUSH BASE. ALL EXISTING CONDUIT AND WIRE TO BE DEMOED.



1 FIRST FLOOR PLAN - LIGHTING
3/16" = 1'-0"

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FIRST FLOOR PLAN - LIGHTING

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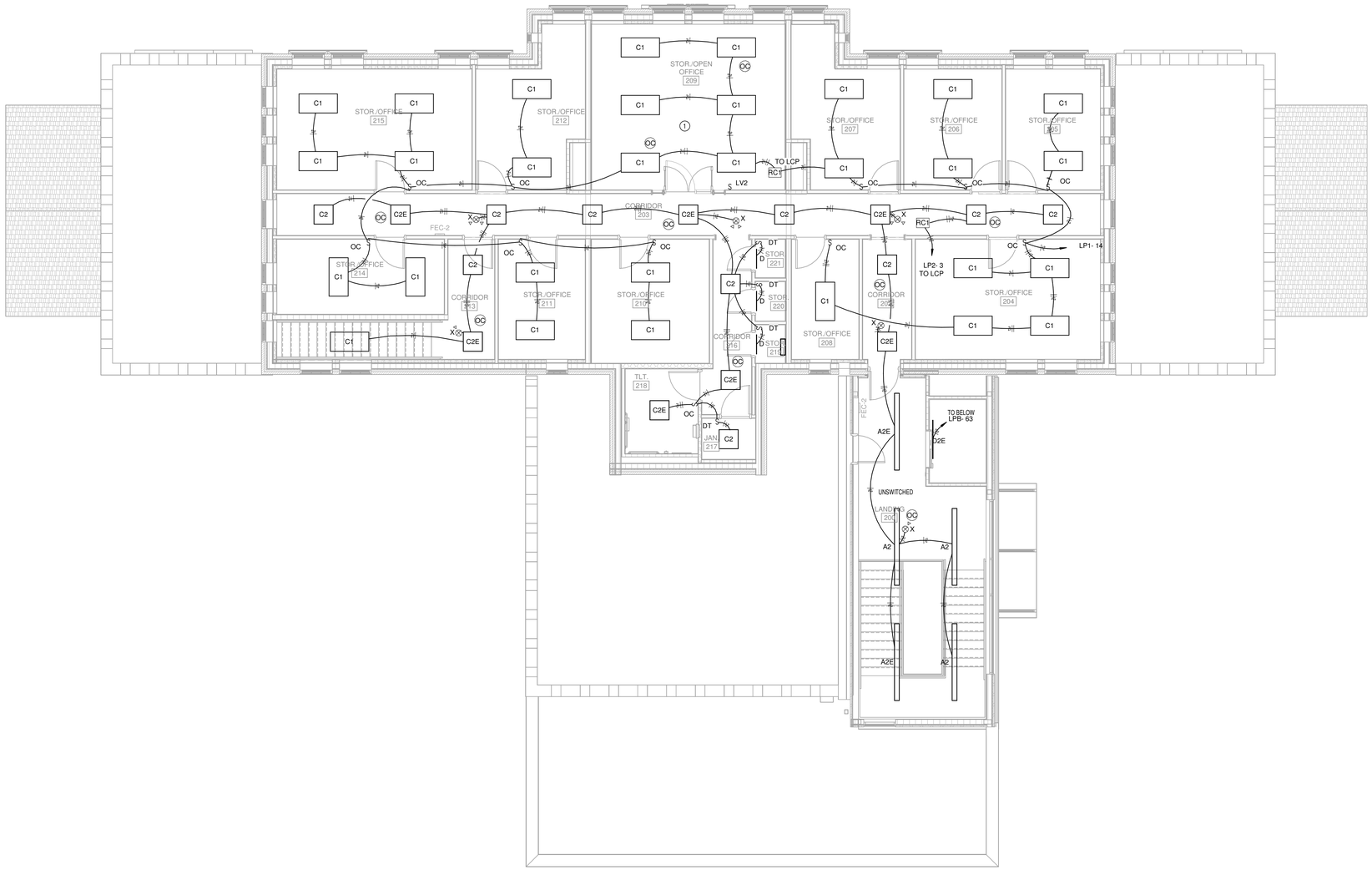
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LIGHTING KEYED NOTES

1. THIS SPACE SHALL BE DIMMABLE. PROVIDE AND INSTALL 0-10V WIRING FOR THE LIGHTS IN THIS SPACE.
2. FIXTURES SHALL REPLACE EXISTING POLE FIXTURES. EXISTING CONCRETE BASE SHALL BE DEMOED. REPLACE WITH A NEW FLUSH BASE, ALL EXISTING CONDUIT AND WIRE TO BE DEMOED.



1 **SECOND FLOOR PLAN - LIGHTING**
3/16" = 1'-0"

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SECOND FLOOR PLAN - LIGHTING

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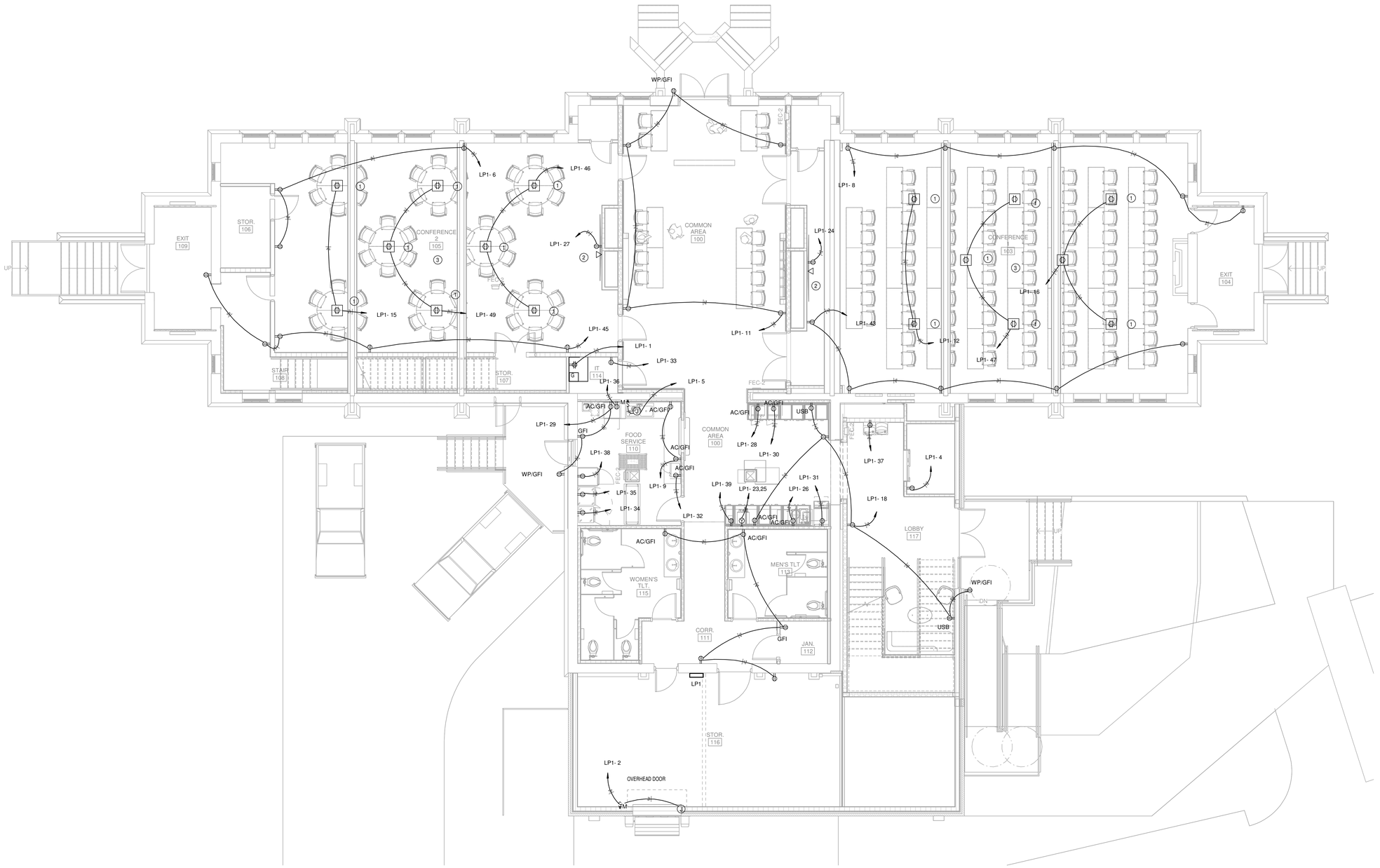
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AV ALLOWANCE NOTES

THE CONTRACTOR SHALL PROVIDE AN ALLOWANCE FOR AV EQUIPMENT. THE ALLOWANCE SHALL INCLUDE ALL AV EQUIPMENT, INSTALLATION, CABLING, PROGRAMMING AND ANY ADDITIONAL POWER, BOXES, CONDUIT OR DATA CABLING REQUIRED FOR A COMPLETE SYSTEM. REFER TO SPECIFICATIONS FOR MORE INFORMATION.

POWER KEYED NOTES

1. VERIFY EXACT LOCATION OF FLOORBOXES PRIOR TO INSTALLATION.
2. TV CONNECTION - SEE BACK BOX DETAIL



1 **FIRST FLOOR PLAN - POWER**
3/16" = 1'-0"

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FIRST FLOOR PLAN - POWER

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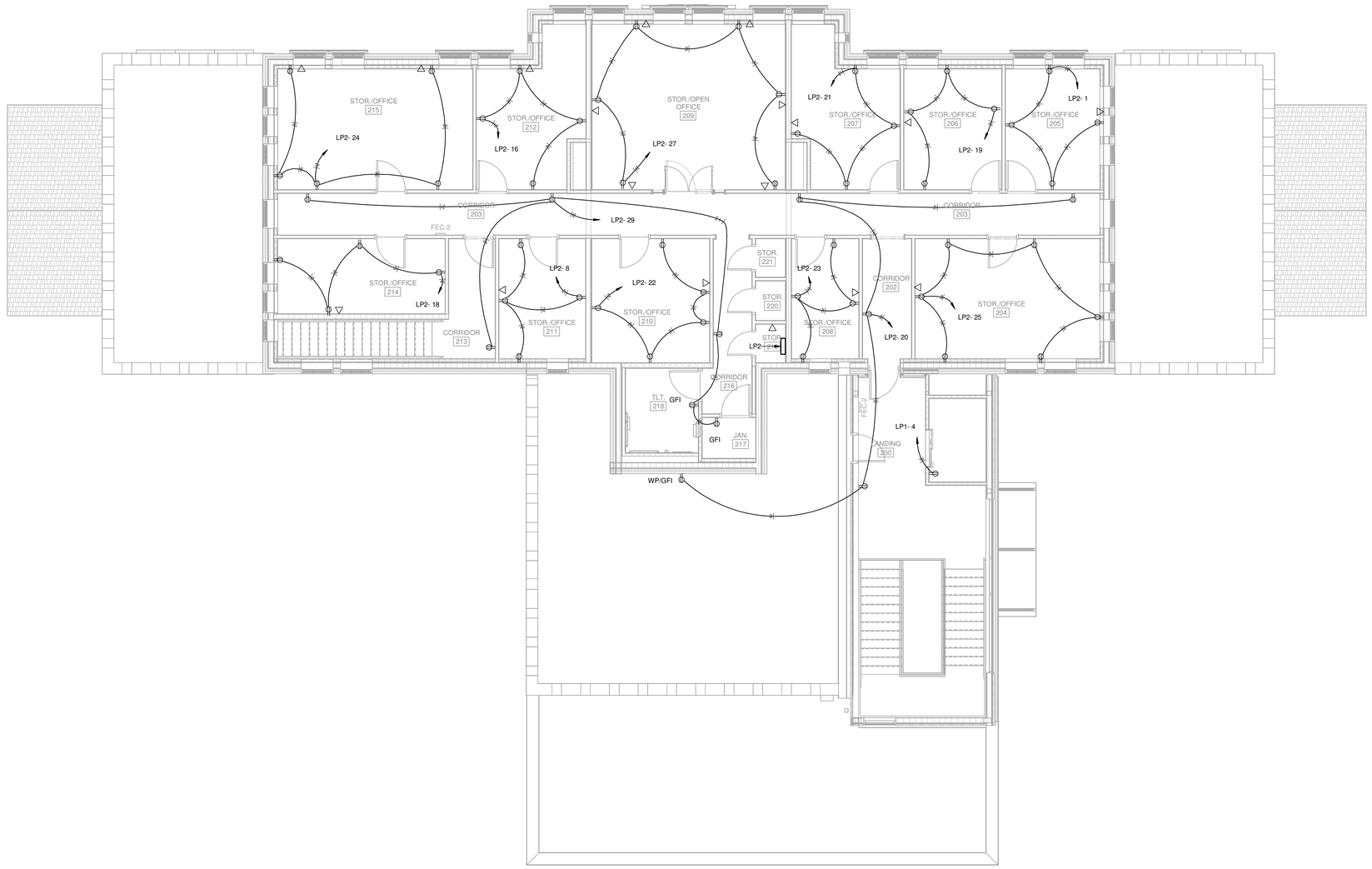
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POWER KEYED NOTES

1. VERIFY EXACT LOCATION OF FLOORBOXES PRIOR TO INSTALLATION.
2. TV CONNECTION - SEE BACK BOX DETAIL



1 **SECOND FLOOR PLAN - POWER**
3/16" = 1'-0"

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SECOND FLOOR PLAN - POWER

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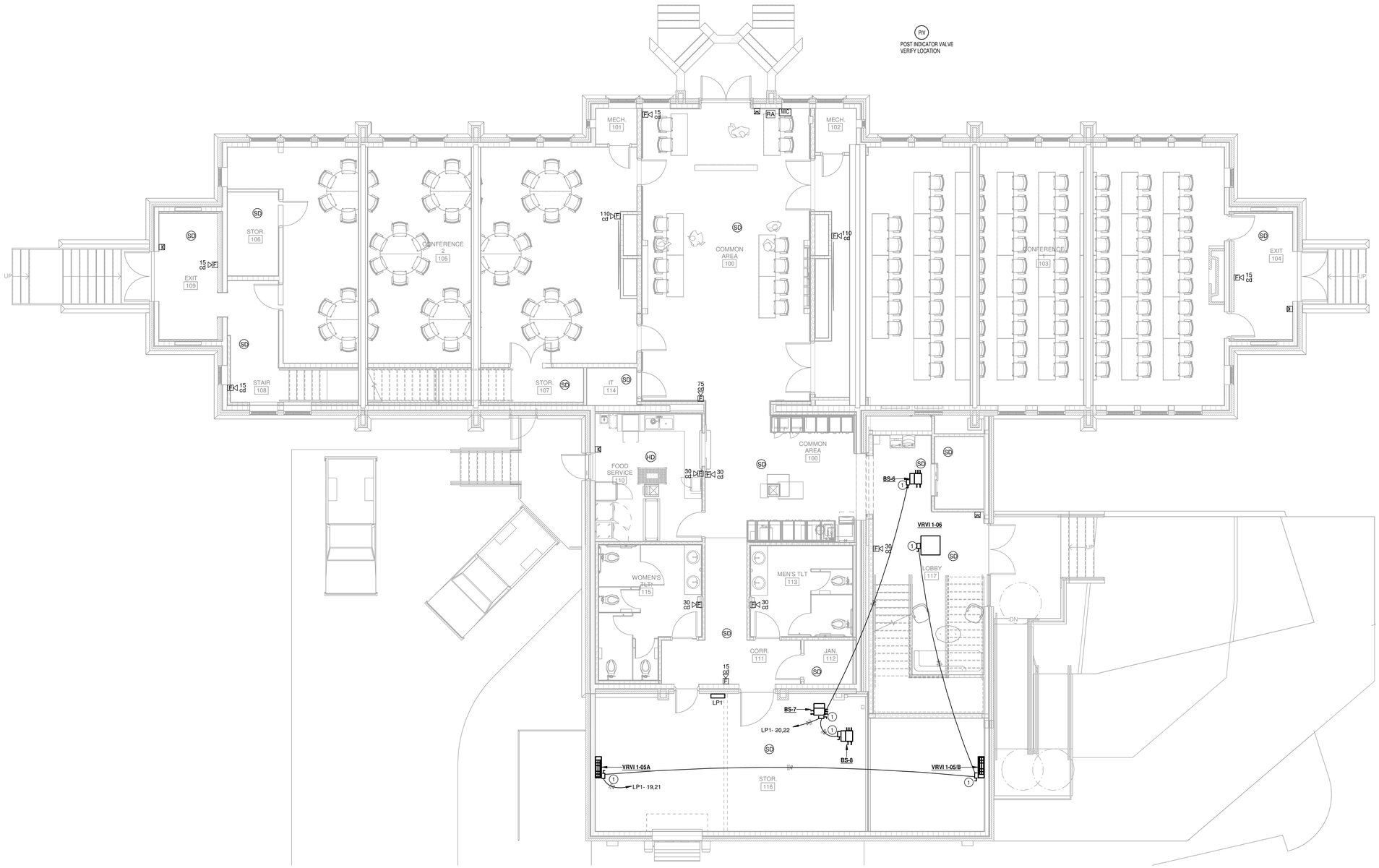
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ELECT. SYSTEMS KEYED NOTES

1. PROVIDE AND INSTALL A 30A/2P, HD, NF DISCONNECT SWITCH
2. PROVIDE AND INSTALL A 60A/3P, HD, NF, 3R DISCONNECT SWITCH
3. PROVIDE AND INSTALL A 100A/3P, HD, NF, 3R DISCONNECT SWITCH
4. PROVIDE AND INSTALL A 200A/3P, HD, NF, 3R DISCONNECT SWITCH
5. PROVIDE AND INSTALL A LIGHTING CONTROL PANEL. CONNECT THE ROOM CONTROLLERS AS NOTED ON PLANS. PROVIDE ALL PARTS AND PROGRAMMING FOR A COMPLETE SYSTEM.



1 **FIRST FLOOR PLAN - SYSTEMS**
3/16" = 1'-0"

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FIRST FLOOR PLAN - SYSTEMS

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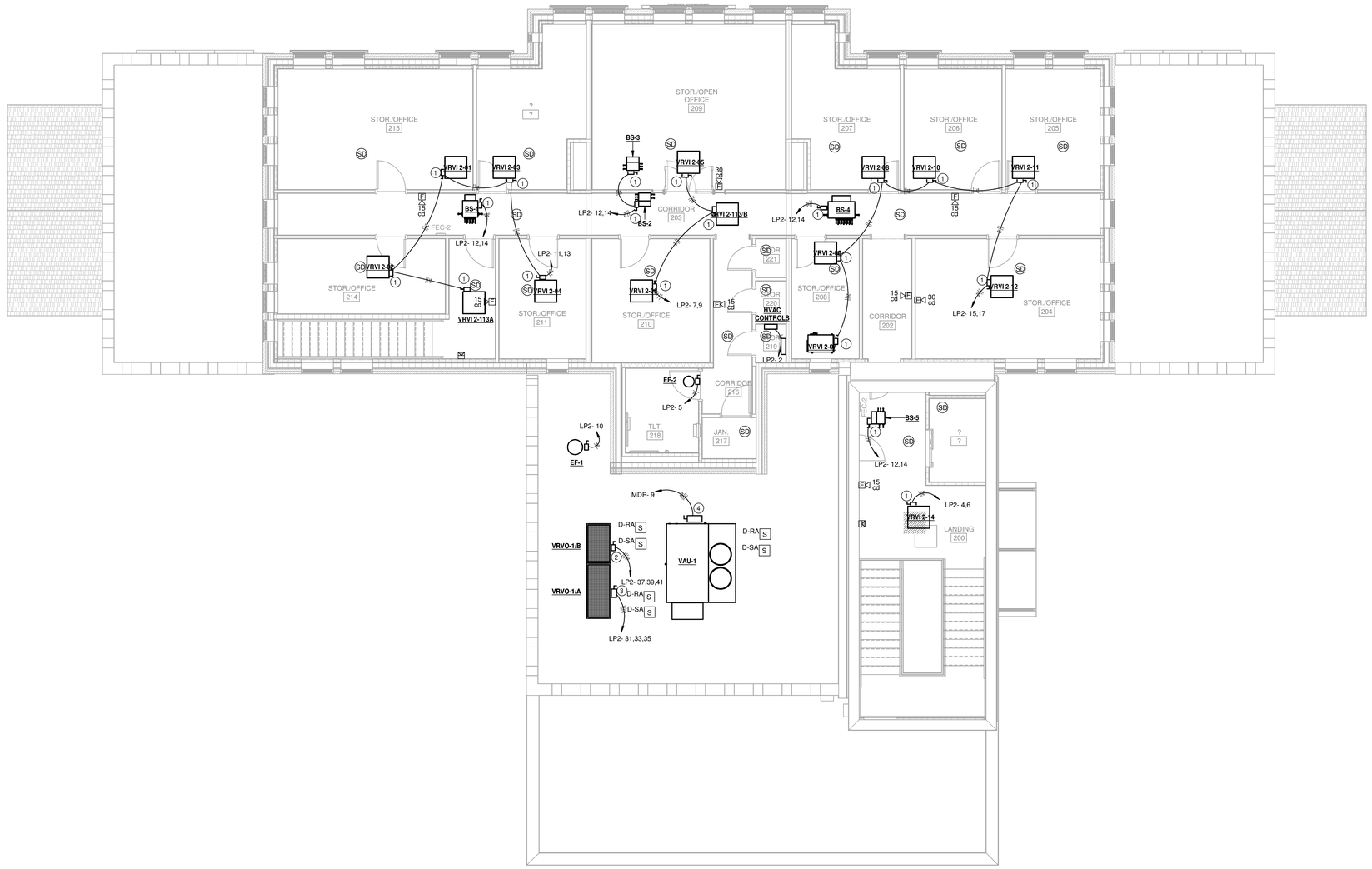
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ELECT. SYSTEMS KEYED NOTES

1. PROVIDE AND INSTALL A 30A/2P, HD, NF DISCONNECT SWITCH
2. PROVIDE AND INSTALL A 60A/3P, HD, NF, 3R DISCONNECT SWITCH
3. PROVIDE AND INSTALL A 100A/3P, HD, NF, 3R DISCONNECT SWITCH
4. PROVIDE AND INSTALL A 200A/3P, HD, NF, 3R DISCONNECT SWITCH
5. PROVIDE AND INSTALL A LIGHTING CONTROL PANEL. CONNECT THE ROOM CONTROLLERS AS NOTED ON PLANS. PROVIDE ALL PARTS AND PROGRAMMING FOR A COMPLETE SYSTEM.



1 SECOND FLOOR PLAN - SYSTEMS
3/16" = 1'-0"

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SECOND FLOOR PLAN - SYSTEMS

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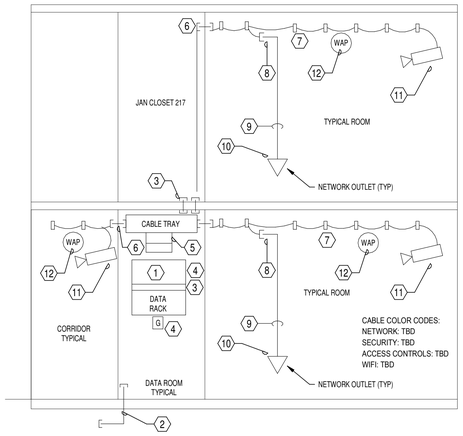
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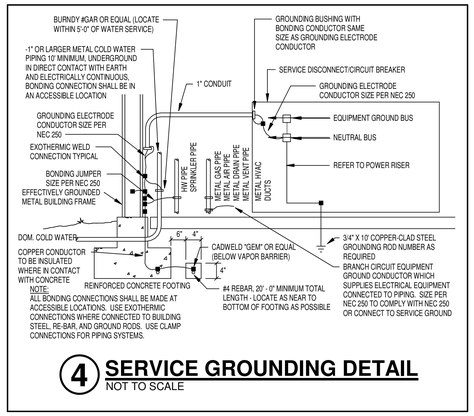
CABLE SHALL BE CONCEALED WITHIN WALLS AND ABOVE CEILINGS. PROVIDE J-HOOKS AS REQUIRED FOR CABLE ROUTING. DO NOT LAY CABLING DIRECTLY ON CEILING TILES.



DATA RISER KEYED NOTES:

1. WALL MOUNTED FULLY ENCLOSED 20U DATA RACK WITH CABLE MANAGEMENT.
2. TWO 4" CONDUITS CAPPED FOR COMMUNICATIONS. THE EXACT LOCATION OF EACH CONDUIT STUB UP SHALL BE CLOSELY COORDINATED WITH THE OWNERS IT REPRESENTATIVE PRIOR TO INSTALLATION.
3. TWO 4" CONDUIT SLEEVES FOR FLOOR TO FLOOR CABLE ROUTING.
4. COPPER GROUNDING BUS BAR WITH STANDOFF BRACKET. REFER TO DATA SYSTEM GROUNDING DETAIL. BOND TO BUILDING STURCTURE AND TO ELECTRICAL SERVICE ENTRANCE GROUND PER BICSI STANDARDS. REFER TO DATA SYSTEM GROUNDING DETAIL. #6 AWG BONDING JUMPER TO OWNER PROVIDED DATA RACKS.
5. 18" LADDER RACK DROP ABOVE EACH DATA RACK.
6. TWO 4" UL LISTED, FIRE RATED CABLE PENETRATIONS EQUAL TO WIREMOLD FLAMESTOPPER AT ALL FIRE RATED PARTITIONS.
7. J-HOOKS ALONG WALLS IN ALL ROOMS UP TO CONDUIT DROP. J-HOOKS SHALL BE SPACED NO MORE THAN 60" ON CENTER. THE CONTRACTOR SHALL PROVIDE A PATHWAY ALONG J-HOOKS TO EACH SPACE.
8. PROVIDE PROTECTIVE BUSHING IN ALL CONDUIT DROPS
9. 3/4" EMT CONDUIT DROP DOWN FOR NETWORK CABLING.
10. TYPICAL DATA OUTLET, 2 CABLES PER DROP. REFER TO PLANS LOCATION OF DROPS.
11. SECURITY CAMERA. TYPICAL CAMERA LOCATIONS, REFER TO PLANS FOR NUMBER, LOCATIONS, AND MOUNTING. PROVIDE CONDUIT PATHWAY, TERMINATED CAT6 CABLE AND BACK BOX. TERMINATED IN SWITCH NOTED IN KEYED NOTE 14.
12. WIFI ACCESS POINT: 1 TERMINATED CAT6 DROP PER WAP LOCATION WITH 25FT SLACK ABOVE CEILING. REFER TO PLANS FOR LOCATIONS.

1 DATA RISER DIAGRAM
NOT TO SCALE

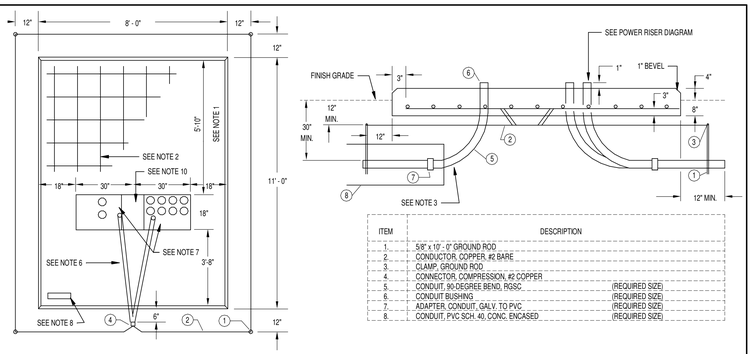


4 SERVICE GROUNDING DETAIL
NOT TO SCALE

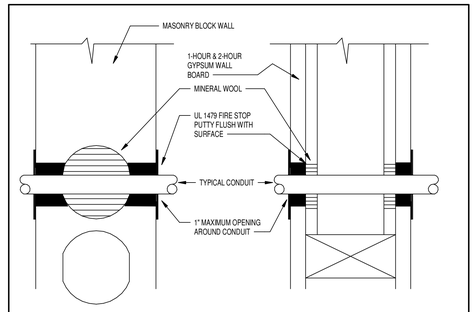
GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
2. CIRCUITS OF DIFFERENT PHASES MAY SHARE EQUIPMENT GROUND. EQUIPMENT GROUND CONDUCTOR SIZE SHALL NOT BE LESS THAN #12 AWG OR AS INDICATED ON THE DRAWINGS.
3. ALL CONDUCTORS #10 AND SMALLER SHALL BE SOLID COPPER THW, THHN, THWN, AND ALL CONDUCTORS #8 AND LARGER SHALL BE STRANDED COPPER USING BOLTED LUGS AT TERMINALS.
4. MINIMUM WIRE SIZE SHALL BE #12 AWG UNLESS OTHERWISE NOTED.
5. PULL ALL THE CONDUCTORS THROUGH RACEWAY AT THE SAME TIME.
6. MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS OTHERWISE NOTED. SEE SPECS FOR CONDUIT REQUIREMENTS. ALL CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
7. 6'-0" MAXIMUM LENGTH ON FLEXIBLE CONDUIT.
8. USE COMPRESSION FITTINGS ON CONDUIT, SET SCREW FITTINGS ARE NOT ALLOWED.
9. PROVIDE PULL STRING AND PROTECTIVE BUSHINGS IN ALL SPARE CONDUITS.
10. LABEL ALL CIRCUITS ON PANEL SCHEDULES.
11. TURN ALL UNUSED CIRCUIT BREAKERS TO OFF POSITION.
12. FIRE PROOF ALL PENETRATIONS MADE THROUGH FIRE RATED WALLS.
13. ALL DEVICES SHALL BE RATED 20 AMP MINIMUM, VERIFY COLOR WITH ARCHITECT.
14. CONNECT DEVICES BY WRAPPING WIRE AROUND SCREW TERMINAL IN A CLOCKWISE DIRECTION AND TIGHTEN SCREW, BACK-CONNECTED SPRING DEVICES ARE NOT ALLOWED.
15. ALL BOXES SHALL BE INDEPENDANTLY SUPPORTED TO THE BUILDINGS STRUCTURE.
16. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL ELEVATIONS AND MILLWORK DETAILS FOR EXACT LOCATIONS OF ALL WIRING DEVICES AND LIGHT FIXTURES.
17. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LAY-IN LIGHT FIXTURES.
18. THE SPECIFICATIONS ARE AS BINDING ON THE CONTRACTOR AS THE DRAWINGS. THE CONTRACTOR SHALL READ THE SPECIFICATIONS AND SHALL INCLUDE ALL ITEMS REQUIRED BY THE SPECIFICATIONS BEFORE SUBMITTING A BID.
19. ELECTRICAL CONTRACTOR SHALL CLOSELY COORDINATE WITH MECHANICAL AND PLUMBING CONTRACTORS FOR EXACT LOCATION OF HVAC AND PLUMBING EQUIPMENT.
20. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SIZING OF ALL MOTOR OVERLOAD DEVICES (HEATERS) IN STARTERS BASED ON ACTUAL NAMEPLATE RATINGS ON THE MOTOR BEING INSTALLED.
21. PROVIDE TAMPER RESISTANT DEVICES AS REQUIRED BY CODE.

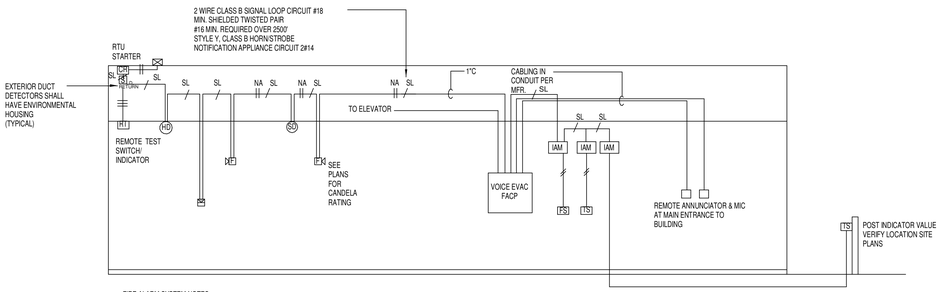
NOTE:
1. WHERE POSSIBLE, DO NOT PLACE CONDUIT UNDER THIS SECTION OF FOUNDATION.
2. REINFORCING: #4 BARS 12"C.C. BOTH WAYS.
3. WHEN INSTALLING CONDUIT, DISTURB GROUND IN FOUNDATION AREA AS LITTLE AS POSSIBLE. EXTEND CONDUIT 1" ABOVE FOUNDATION.
4. TOP OF FOUNDATION TO BE SMOOTH AND LEVEL. FINAL GRADE SHALL SLOPE AWAY FROM PAD.
5. CONCRETE SHALL BE 3500 PSI AT 28 DAYS AND 1:2:4 MIXTURE WITH 6 GAL. MAX. WATER CONTENT PER SACK OF CEMENT.
6. 1" CONDUIT UNDER PAD FOR GROUND WIRE.
7. LOCATE CONDUITS UNDER PRIMARY AND SECONDARY BUSHINGS.
8. TRANSFORMER LOCATION TAG SHALL BE ATTACHED TO PAD WITH CONCRETE NAILS OR SHEET METAL SCREWS.
9. TRANSFORMER PAD REQUIRES 3' CLEARANCE ON BACK AND SIDES AND 15' IN FRONT.
10. 18" MINIMUM BETWEEN PRIMARY AND SECONDARY CONDUITS.



7 UTILITY TRANSFORMER PAD DETAIL
NOT TO SCALE



5 FIRE WALL PENETRATION DETAIL
NOT TO SCALE

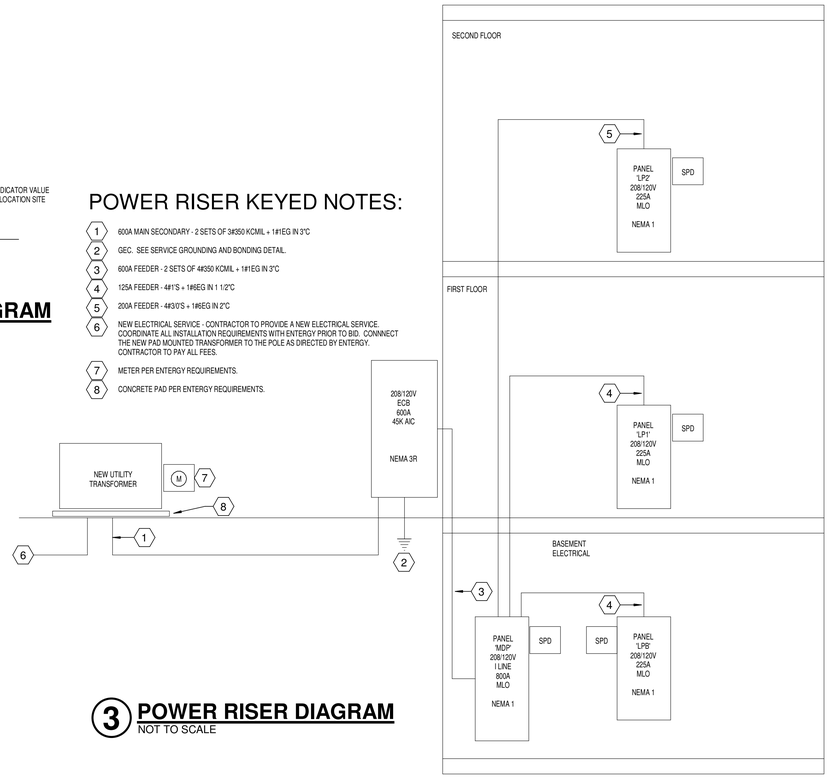


FIRE ALARM SYSTEM NOTES:
1. ALL WIRING IN CONDUIT. SEE FLOOR PLANS FOR TOTAL NUMBER OF DEVICES REQUIRED. VERIFY EXACT WIRING REQUIREMENTS AND NOTIFICATION POWER SUPPLY PANELS WITH FIRE ALARM SYSTEM INSTALLER. ALL NOTIFICATION POWER SUPPLIES SHALL BE CONNECTED TO DEDICATED 20A/120V BRANCH CIRCUITS FROM POWER PANELS. FIRE ALARM SYSTEM CONTRACTOR SHALL INCLUDE COSTS FOR BRANCH CIRCUITS REQUIRED FOR NOTIFICATION POWER SUPPLY PANELS IN BID. PANELS SHALL BE INSTALLED IN AVAILABLE SPACE IN ELECTRICAL ROOMS ONLY. EXACT LOCATIONS DETERMINED BY ARCHITECT. PROVIDE 120V SHUNT TRIP CONTROL FOR ELEVATOR LIGHTS AND CONTROLS IF REQUIRED BY LOCAL ELEVATOR INSPECTOR/AHJ.
2. FIRE ALARM SYSTEM TO BE INSTALLED PER APPROVED SHOP DRAWINGS FURNISHED BY THE FIRE ALARM VENDOR. CONTRACTOR TO PROVIDE A COMPLETE SCHEDULE OF DEVICE ADDRESSES WITH SHOP DRAWINGS FOR REVIEW AND APPROVAL.
3. CONTRACTOR TO PROVIDE COMPLETE SCHEDULE FOR EACH DEVICE ADDRESS WITH SHOP DRAWINGS FOR REVIEW AND APPROVAL. SEE FLOOR PLANS FOR TOTAL NUMBER OF DEVICES REQUIRED. ALL CABLING INSTALLED IN CONDUIT. VERIFY EXACT WIRING REQUIREMENTS WITH EQUIPMENT SUPPLIER.
4 PROVIDE AND INSTALL A GSM DIALER FOR FIRE ALARM COMMUNICATIONS. CONTRACTOR SHALL INCLUDE 1 YEAR OF CELLULAR AND MONITORING SERVICE IN THE CONTRACT.
5. CONTRACTOR TO PROVIDE COMPLETE SCHEDULE FOR EACH DEVICE ADDRESS WITH SHOP DRAWINGS FOR REVIEW AND APPROVAL. SEE FLOOR PLANS FOR TOTAL NUMBER OF DEVICES REQUIRED. ALL CABLING INSTALLED IN CONDUIT. VERIFY EXACT WIRING REQUIREMENTS WITH EQUIPMENT SUPPLIER.
6. FIRE PROTECTION RISER IS FOR REFERENCE ONLY. VERIFY ALL FLOW/TAMPER SWITCH LOCATIONS AND QUANTITIES

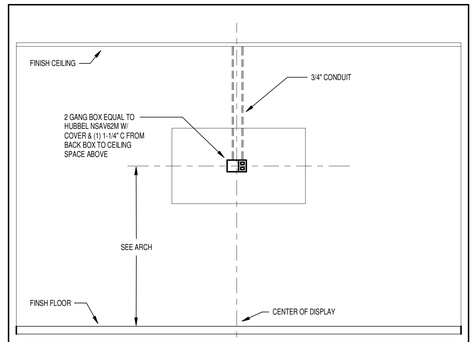
2 FIRE ALARM SYSTEM RISER DIAGRAM
NOT TO SCALE

POWER RISER KEYED NOTES:

1. 600A MAIN SECONDARY - 2 SETS OF 3#350 KCMIL + 1#1EG IN 3"C
2. GEC. SEE SERVICE GROUNDING AND BONDING DETAIL.
3. 600A FEEDER - 2 SETS OF 4#350 KCMIL + 1#1EG IN 3"C
4. 125A FEEDER - 4#1'S + 1#6EG IN 1 1/2"C
5. 200A FEEDER - 4#3/0'S + 1#6EG IN 2"C
6. NEW ELECTRICAL SERVICE - CONTRACTOR TO PROVIDE A NEW ELECTRICAL SERVICE. COORDINATE ALL INSTALLATION REQUIREMENTS WITH ENTERGY PRIOR TO BID. CONNNECT THE NEW PAD MOUNTED TRANSFORMER TO THE POLE AS DIRECTED BY ENTERGY. CONTRACTOR TO PAY ALL FEES.
7. METER PER ENTERGY REQUIREMENTS.
8. CONCRETE PAD PER ENTERGY REQUIREMENTS.



3 POWER RISER DIAGRAM
NOT TO SCALE



6 TV BACK BOX DETAIL HIGH
NOT TO SCALE

WDD ARCHITECTS

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ELECTRICAL LEGENDS & DETAILS

NO.	DATE	DESCRIPTION

25-043
6-9-26
100% CONSTRUCTION DOCUMENTS
ISSUE
E2.01

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 12363 DAVID A. PETTIT 6-9-26
CORPORATE REGISTRATION PETTIT & PETTIT CONSULTING ENGINEERS, INC. No. 78 ARKANSAS ENGINEER
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Switchboard: MDP

LOCATION:	NORTH BASEMENT 003	**VOLTAGE:**	120/208 Wye	**COPPER BUS RATING:**	800A	**MAINS TYPE:**	MCB
MOUNTING:	SURFACE	**PHASE:**	3	**GROUND BUS:**	YES	**MCB RATING:**	600A
ENCLOSURE:	NEMA 1	**WIRES:**	4	**MINIMUM A.I.C. RATING:**	45K	**FED FROM:**	ECB
		MFR. AND TYPE	SQUARE D I-LINE	**SUBFEED LUGS:**		**NEUTRAL RATING:**	100% UNLESS OTHERWISE

Circuit Number	Load Name	Circuit Breaker	A	B	C
1	LP1	125A	8986 VA	8161 VA	9388 VA
2	LPB	125A	13649 VA	11964 VA	12833 VA
3	** ELEVATOR MOTOR ** - #3'S	80A	4933 VA	4933 VA	4933 VA
4	ELEVATOR CAB	20A	1600 VA		
5	CG3-125 SPD	100A	0 VA		
6	100A SPACE WITH BUS		--		
7	100A SPACE WITH BUS		--		
8	100A SPACE WITH BUS		--		
9	VAU-1 - #1'S	125A	15011 VA	15011 VA	15011 VA
10	LP2	200A	19374 VA	19300 VA	19254 VA
11					
12					
	Total Load:		63554 VA	59370 VA	61420 VA
	Total Amps:		532 A	495 A	514 A

Load Classification	Connected Load	Demand Factor	Esitmated Demand	Panel Totals	
Lighting	5670 VA	125.00%	7088 VA	**Total Connected Load:**	184343 VA
Receptacles	24060 VA	70.78%	17030 VA	**Total Estimated Demand:**	150113 VA
HVAC	143088 VA	80.00%	114470 VA	**Total Connect Current:**	512 A
Other	2525 VA	100.00%	2525 VA	**Total Est. Demand Current:**	417 A
Motor	0 VA	0.00%	0 VA		
Largest Motor Load	0 VA	0.00%	0 VA		
Kitchen Non Residential	0 VA	0.00%	0 VA		
Existing Load	0 VA	0.00%	0 VA		

Notes:

** DENOTES SHUNT TRIP BREAKER **

Panelboa... LP2

LOCATION:	Space 137	**VOLTAGE:**	120/208 Wye	**COPPER BUS RATING:**	225A	**MAINS TYPE:**	MLO
MOUNTING:	SURFACE	**PHASE:**	3	**GROUND BUS:**	YES	**MCB RATING:**	
ENCLOSURE:	NEMA 1	**WIRES:**	4	**MINIMUM A.I.C. RATING:**	22K	**FED FROM:**	MDP
		MFR. AND TYPE:	SQUARE D NQ	**SUBFEED LUGS:**		**NEUTRAL RATING:**	100% UNLESS OTHERWISE

CIRCUIT #	Load Name	BRKR A/P	A	B	C	BRKR A/P	Load Name	CIRCUIT #
1	RECEPTS - 205	20A/1P	720 300			20A/1P	HVAC CONTROLS PANEL	2
3	LIGHTING	20A/1P		846 150		20A/2P	HVAC 2-15	4
5	HVAC EF-2	20A/1P			300 150			6
7	HVAC - 2-05 THRU 2-06	20A/2P	450 720			20A/1P	RECEPTS - 211	8
9				450 300		20A/1P	HVAC EF-1	10
11	HVAC - 2-01 THRU 2-04	20A/2P			500 750	20A/2P	HVAC - BS-1 THRU 5	12
13			500 750					14
15	HVAC - 2-07 THRU 2-12	20A/2P		900 720		20A/1P	RECEPTS - 212	16
17					900 720	20A/1P	RECEPTS - 214	18
19	RECEPTS - 206	20A/1P	720 900			20A/1P	RECEPTS - 202	20
21	RECEPTS - 207	20A/1P		720 900		20A/1P	RECEPTS - 210	22
23	RECEPTS - 208	20A/1P			720 900	20A/1P	RECEPTS - 215	24
25	RECEPTS - 204	20A/1P	1080 0			20A/3P	CG3-40 SPD	26
27	RECEPTS - 209	20A/1P		1080 0		-	-	28
29	RECEPTS - CORRIDORS	20A/1P			1080 0	-	-	30
31	HVAC - VRVO - 1/A #4'S	70A/3P	7229 0			20A/1P	SPARE	32
33				7229 0		20A/1P	SPARE	34
35					7229 0	20A/1P	SPARE	36
37	HVAC - VRVO-1/B #6'S	60A/3P	6004 0			20A/1P	SPARE	38
39				6004 0		20A/1P	SPARE	40
41					6004 0	20A/1P	SPARE	42
	Total Load:		19374 VA	19300 VA	19254 VA			
	Total Amps:		162 A	161 A	160 A			

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	840 VA	125.00%	1050 VA	**Total Connected Load:**	57927 VA
Receptacles	10980 VA	95.54%	10490 VA	**Total Estimated Demand:**	48427 VA
HVAC	46101 VA	80.00%	36881 VA	**Total Connected Current:**	161 A
Kitchen Non Residential	0 VA	0.00%	0 VA	**Total Est. Demand...**	134 A
Other	6 VA	100.00%	6 VA		
Motor	0 VA	0.00%	0 VA		
Largest Motor Load	0 VA	0.00%	0 VA		
Existing Load	0 VA	0.00%	0 VA		

Notes:

* DENOTES GFCI BREAKER*
** DENOTES AFCI BREAKER **
*** DENOTES COMBINATION AFCI/GFCI BREAKER ***

Panelboa... LP1

LOCATION:	STOR. 116	**VOLTAGE:**	120/208 Wye	**COPPER BUS RATING:**	225A	**MAINS TYPE:**	MLO
MOUNTING:	SURFACE	**PHASE:**	3	**GROUND BUS:**	YES	**MCB RATING:**	
ENCLOSURE:	NEMA 1	**WIRES:**	4	**MINIMUM A.I.C. RATING:**	22K	**FED FROM:**	MDP
		MFR. AND TYPE:	SQUARE D NQ	**SUBFEED LUGS:**		**NEUTRAL RATING:**	100% UNLESS OTHERWISE

CIRCUIT #	Load Name	BRKR A/P	A	B	C	BRKR A/P	Load Name	CIRCUIT #
1	DATA RACK	20A/1P	360 500			20A/1P	OVERHEAD DOOR	2
3	SPARE	20A/1P		0 540		20A/1P	ELEVATOR RECEPTS	4
5	DISPOSER - 110	20A/1P			500 540	20A/1P	RECEPTS - 105	6
7	LIGHTING	20A/1P	589 900			20A/1P	RECEPTS - 103	8
9	RECEPTS - 110	20A/1P		360 936		20A/1P	LIGHTING	10
11	RECEPTS - 100	20A/1P			900 1000	20A/1P	FLOORBOXES	12
13	LIGHTING	20A/1P	1052 1160			20A/1P	LIGHTING	14
15	FLOORBOXES	20A/1P		1000 1500		20A/1P	FLOORBOXES	16
17	LIGHTING	20A/1P			1108 1080	20A/1P	RECEPTS - 117	18
19	HVAC - 1-05 THRU 1-06	20A/2P	225 300			20A/2P	HVAC BS-6 THRU 8	20
21				225 300				22
23	*ESPRESSO MACHINE*	VERIFY			600 180	20A/1P	TVS - 103	24
25			600 180			20A/1P	RECEPTS - COFFEE BAR	26
27	TV - 105	20A/1P		180 180		20A/1P	MICROWAVE	28
29	RECEPTS - 110	20A/1P			540 180	20A/1P	COFFEE MAKER	30
31	* ICE MAKER - 100 *	20A/1P	180 180			20A/1P	*MICROWAVE - 110*	32
33	CHARGING STATION	20A/1P		180 180		20A/1P	*HEATING CABINET - 110*	34
35	*HEATING CABINET - 110*	20A/1P			180 180	20A/1P	*DISHWASHER - 110*	36
37	*EWC - 117*	20A/1P	180 180			20A/1P	* HEATING CABINET - 110 *	38
39	*COFFEE MAKER - 100*	20A/1P		180 0		20A/3P	CG3-40 SPD	40
41	RECEPTS - 111	20A/1P			900 0	-	-	42
43	RECEPTS - 103	20A/1P	900 0			-	-	44
45	RECEPTS - 105	20A/1P		900 1500		20A/1P	FLOORBOXES	46
47	FLOORBOXES	20A/1P			1500 0	20A/1P	SPARE	48
49	FLOORBOXES	20A/1P	1500 0			20A/1P	SPARE	50
51	SPARE	20A/1P		0 0		20A/1P	SPARE	52
53	SPARE	20A/1P			0 0	20A/1P	SPARE	54
55	SPARE	20A/1P	0 0			20A/1P	SPARE	56
57	SPARE	20A/1P		0 0		20A/1P	SPARE	58
59	SPARE	20A/1P			0 0	20A/1P	SPARE	60
	Total Load:		8986 VA	8161 VA	9388 VA			
	Total Amps:		76 A	68 A	79 A			

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	2820 VA	125.00%	3525 VA	**Total Connected Load:**	26535 VA
Receptacles	11640 VA	92.96%	10820 VA	**Total Estimated Demand:**	26210 VA
HVAC	1050 VA	80.00%	840 VA	**Total Connected Current:**	74 A
Kitchen Non Residential	0 VA	0.00%	0 VA	**Total Est. Demand...**	73 A
Other	2025 VA	100.00%	2025 VA		
Motor	0 VA	0.00%	0 VA		
Largest Motor Load	0 VA	0.00%	0 VA		
Existing Load	0 VA	0.00%	0 VA		

Notes:

* DENOTES GFCI BREAKER*
** DENOTES AFCI BREAKER **
*** DENOTES COMBINATION AFCI/GFCI BREAKER ***

SYMBOL LEGEND

	DUPLEX RECEPTACLE AT 18" A.F.F. GFI - GROUND FAULT CIRCUIT INTERUPTER AC - MOUNTED ABOVE COUNTER BC - MOUNTED BELOW COUNTER WP - PROVIDED WITH WEATHERPROOF IN-USE TYPE COVER
	QUADRUPLEX RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE NEMA CONFIGURATION SHOWN ON PLAN
	DUPLEX RECEPTACLE - FLOOR MOUNTED
	QUADRUPLEX RECEPTACLE FLOOR MOUNTED
	DATA OUTLET - NUMBER OF JACKS SHOWN ON PLAN
#D	DATA OUTLET - FLOOR MOUNTED - NUMBER OF JACKS SHOWN ON PLANS
WAP #D	WIRELESS ACCESS POINT - NUMBER OF JACKS SHOWN ON PLANS
J	JUNCTION BOX
$	SINGLE POLE TOGGLE SWITCH AT 48" A.F.F. TYPICAL LV1 - LOW VOLTAGE PUSH BUTTON SWITCH - ON/OFF LV2 - LOW VOLTAGE PUSH BUTTON SWITCH - ON/OFF/RAISE/LOWER M - MOTOR RATED TOGGLE OC - DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH DT - DIGITAL TIMER
A	BRANCH CIRCUIT HOMERUN HOT-NETURAL-GROUND PANEL AND CIRCUIT NUMBER INDICATED ON PLAN
	PANELBOARD
	DISCONNECT SWITCH
G	GROUND BAR
HD	HEAT DETECTOR
SD	SMOKE DETECTOR
	MANUAL PULL STATION
RA	FIRE ALARM REMOTE ANNUNCIATOR
TS	TAMPER SWITCH
FS	WATER FLOW SWITCH
S D - SA	DUCT MOUNTED SMOKE DETECTION SUPPLY
S D - RA	DUCT MOUNTED SMOKE DETECTION RETURN
V cd	VOICE EVAC FIRE ALARM SPEAKER STROBE APPLIANCE CANDELA RATING AS SHOWN ON PLANS
OC1	DUAL TECHNOLOGY OCCUPANCY SENSOR CEILING/WALL MOUNTED EQUAL TO *****
RC1	LIGHTING ROOM CONTROLLER SINGLE RECEPT EQUAL TO *****

Panelboa... LPB

LOCATION:	NORTH BASEMENT 003	**VOLTAGE:**	120/208 Wye	**COPPER BUS RATING:**	225A	**MAINS TYPE:**	MLO
MOUNTING:	SURFACE	**PHASE:**	3	**GROUND BUS:**	YES	**MCB RATING:**	
ENCLOSURE:	NEMA 1	**WIRES:**	4	**MINIMUM A.I.C. RATING:**	35K	**FED FROM:**	MDP
		MFR. AND TYPE:	SQUARE D NQ	**SUBFEED LUGS:**		**NEUTRAL RATING:**	100% UNLESS OTHERWISE

CIRCUIT #	Load Name	BRKR A/P	A	B	C	BRKR A/P	Load Name	CIRCUIT #
1	SUMP PUMP RECEPT	20A/1P	180 458			20A/1P	EXTERIOR LIGHTING	2
3	EXTERIOR RECEPTS	20A/1P		360 166		15A/3P	HVAC - 1-02	4
5	Fire Alarm Control Panel	20A/1P			300 166			6
7	HVAC - 1-04	15A/3P	291 0			20A/1P	EXISTING LOAD	8
9				291 0		20A/1P	EXISTING LOAD	10
11	HVAC - 1-03	15A/2P			707 0	20A/1P	EXISTING LOAD	12
13			707 0			20A/1P	EXISTING LOAD	14
15	HVAC - 1-01	15A/3P		707 0		20A/1P	EXISTING LOAD	16
17					707 0	20A/1P	EXISTING LOAD	18
19	HVAC - EH-4	20A/3P	667 0			20A/1P	EXISTING LOAD	20
21				667 0		20A/1P	EXISTING LOAD	22
23					667 0	20A/1P	EXISTING LOAD	24
25	HVAC - EH-8	20A/3P	667 0			20A/1P	EXISTING LOAD	26
27				667 0		20A/1P	EXISTING LOAD	28
29					667 0	20A/1P	EXISTING LOAD	30
31	HVAC - EH-10	20A/3P	1333 0			20A/1P	EXISTING LOAD	32
33				1333 0		20A/1P	EXISTING LOAD	34
35					1333 0	30A/3P	CG3-40 SPD	36
37	HVAC - EH-5	20A/3P	1333 0			-	-	38
39				1333 0		-	-	40
41					1333 1333			42
43	HVAC EH-1	20A/3P	1333 1333			20A/3P	HVAC - EH-6	44
45				1333 1333				46
47					1333 1333			48
49	BASEMENT RECEPTS	20A/1P	900 1333			20A/3P	HVAC - EH-2	50
51	HVAC - BS-9 THRU BS-12	20A/2P		380 1333				52
53					380 667			54
55	HVAC - EH-3	20A/3P	667 667			20A/3P	HVAC - EH-9	56
57				667 667				58
59					667 667			60
61	LCP	20A/1P	600 667			20A/3P	HVAC - EH-7	62
63	ELEVATOR SHAFT LIGHTS	20A/1P		60 667				64
65	LIGHTING	20A/1P			573 --		SPACE	66
67	EAST BASEMENT 007	20A/1P	513 --				SPACE	68
69	SPARE	20A/1P		0 --			SPACE	70
71	SPARE	20A/1P			0 --		SPACE	72
	Total Load:		13649 VA	11964 VA	12833 VA			
	Total Amps:		115 A	100 A	108 A			

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	2010 VA	125.00%	2513 VA	**Total Connected Load:**	38447 VA
Receptacles	1440 VA	100.00%	1440 VA	**Total Estimated Demand:**	32049 VA
HVAC	34503 VA	80.00%	27603 VA	**Total Connected Current:**	107 A
Kitchen Non Residential	0 VA	0.00%	0 VA	**Total Est. Demand...**	89 A
Other	494 VA	100.00%	494 VA		
Motor	0 VA	0.00%	0 VA		
Largest Motor Load	0 VA	0.00%	0 VA		
Existing Load	0 VA	0.00%	0 VA		

Notes:

* DENOTES GFCI BREAKER*
** DENOTES AFCI BREAKER **
*** DENOTES COMBINATION AFCI/GFCI BREAKER ***

WDD ARCHITECTS

ST JOHNS CENTER
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ELECTRICAL PANEL SCHEDULES

NO.	DATE	DESCRIPTION

25-043

6-9-26

100% CONSTRUCTION DOCUMENTS

ISSUE

E3.01

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 12363 ANDREW DAVID ANDERS 6-9-26

CORPORATE REGISTRATION PETTIT & PETTIT CONSULTING ENGINEERS, INC. No. 78 ARKANSAS ENGINEER

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FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
SP	FIRE SPRINKLER PIPING
DSP	DRY PIPE FIRE SPRINKLER PIPING
F	FIRE PROTECTION WATER SUPPLY
	BRASS SPRINKLER HEAD (UPRIGHT OR PENDANT AS REQ'D)
	RECESSED PENDANT SPRINKLER HEAD IN CEILING
	EXTRA LARGE ORIFICE TYPE SPRINKLER HEAD
	DRY PENDENT ON DROP SPRINKLER HEAD
	CONCEALED TYPE SPRINKLER HEAD
	HORIZONTAL SIDEWALL SPRINKLER HEAD
	EXISTING SPRINKLER HEAD
S	SUPERVISED INDICATING TYPE VALVE (O.S.&Y)
F	FLOW SWITCH
	RECESSED FIRE HOSE CABINET
	RECESSED FIRE EXTINGUISHER CABINET
F.E.	FIRE EXTINGUISHER
F.H.C.	FIRE HOSE CABINET
O.S.&Y.	OUTSIDE SCREW & YOKE
F.E.C.	FIRE EXTINGUISHER CABINET
	FIRE HYDRANT
	FIRE DEPARTMENT CONNECTION

AUTO FIRE SPRINKLER LEGEND

(THIS LEGEND FOR ALL SHEETS)

SINGLE CROSSHATCHING DENOTES BOUNDARIES OF AREAS THAT REQUIRE AUTOMATIC FIRE SPRINKLER SYSTEM.

FIRE PROTECTION GENERAL NOTES

DRAWINGS

THE INTENT OF THE FIRE PROTECTION DRAWINGS PRESENTED IS TO PROVIDE A QUALIFIED FIRE PROTECTION CONTRACTOR WITH CONCEPTUAL INFORMATION TO DIAGRAMMATICALLY SHOW POTENTIAL SYSTEM ARRANGEMENT ONLY. THE FIRE PROTECTION EQUIPMENT AND DEVICE LOCATIONS ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL CONFIRM ALL STRUCTURAL AND EQUIPMENT PRIOR TO SYSTEM FABRICATION AND INSTALLATION. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL PIPING, VALVING, SPECIALTIES, ALARM HORNS / BELLS, INDICATING STROBES, TAMPER SWITCHES, ACCESSORIES, SPRINKLERS, MATERIALS, LABOR, ENGINEERING OR COMPONENTS REQUIRED FOR A COMPLETE AND CODE COMPLIANT FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST, WHETHER OR NOT SHOWN ON DRAWINGS.

THE CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWINGS AND FIELD VERIFY ALL INFORMATION. IF THERE ARE ANY DISCREPENCIES, THE CONTRACTOR SHALL COORDINATE AND REVIEW THEM WITH THE ARCHITECT, PRIOR TO PROCEEDING WITH THE WORK.

THE ROUTE OF FIRE PROTECTION MAINS IS INTENDED TO UTILIZE THE MOST EFFICIENT SPACE AVAILABLE AND TO AVOID INTERFERENCE WITH OTHER BUILDING EQUIPMENT AND SYSTEMS. FIELD VERIFY ACTUAL ROUTING OF MAINS PRIOR TO BEGINNING FABRICATION AND INSTALLATION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING ALL SHOP AND PERMIT DRAWINGS SHOWING THE ACTUAL SIZE AND LOCATIONS OF ALL WORK AND SUPPORTING CALCULATIONS IN ACCORDANCE WITH APPLICABLE NFPA CODES AND STANDARDS AS WELL AS THE DIRECTIVES FOR SUBMITTAL BY THE LOCAL AUTHORITY HAVING JURISDICTION, OWNER'S PROPERTY INSURANCE CARRIER LOSS CONTROL STANDARDS, GUIDELINES, AND SPECIFICATIONS.

ALL CEILING HEIGHTS INDICATED ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL NECESSARY MEASUREMENT REQUIRED FOR PRODUCING THEIR SHOP DRAWINGS.

SPRINKLER PIPING AND HEAD LOCATIONS ARE TO BE COORDINATED WITH THE ARCHITECT PRIOR TO SUBMITTING SHOP DRAWINGS AND UPDATED, AS NECESSARY, PENDING SHOP DRAWING REVIEW.

REFER TO DUCTWORK AND LIGHTING DRAWINGS FOR COORDINATION AND SEE MECHANICAL SPECIFICATIONS FOR FURTHER INFORMATION AND ADDITIONAL REQUIREMENTS.

LIGHTING LOCATIONS SHOWN ON RCP'S GOVERN OVER ALL OTHER CEILING MOUNTED EQUIPMENT. SECONDLY MECHANICAL EQUIPMENT, THEN SPRINKLER HEADS.

DO NOT SCALE DRAWINGS FOR DIMENSIONS NOT INDICATED. REFER TO THE ARCHITECT FOR RESOLUTION FOR ANY DIMENSIONS NOT INDICATED.

UNLESS OTHERWISE NOTED, IT IS THE INTENT OF THESE DOCUMENTS TO PROVIDE AN APPROVED AUTOMATIC SPRINKLER SYSTEM THROUGHOUT THE ENTIRE PROJECT.

PURPOSE OF ENGINEERING DRAWINGS

THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED FOR PURPOSES OF OBTAINING A BUILDING PERMIT AND AS THE BASIS OF DESIGN FOR PREPARATION OF DETAILED SHOP DRAWINGS. THE DRAWINGS ARE NOT INTENDED TO SHOW EXACT LOCATIONS, BUT TO DEMONSTRATE THE CONFIGURATION OF MAJOR SYSTEM COMPONENTS AND APPROXIMATE APPLIANCE AND DEVICE LOCATIONS. FIELD VERIFY LOCATIONS OF ALL DEVICES, APPLIANCES AND SYSTEM COMPONENTS.

ALL COMPONENTS SHOWN ARE NEW UNLESS SPECIFICALLY NOTED AS EXISTING.

SCOPE

PROJECT SCOPE INCLUDES THE CONSTRUCTION OF A FOUR STORY MIXED OCCUPANCY BUILDING WHICH WILL CONSIST OF BUILDING CORE, LABORATORY SPACES, OFFICES, AND MECHANICAL ELECTRICAL EQUIPMENT SPACES.

THE WORK UNDER THIS SECTION INCLUDES ALL LABOR, MATERIALS, FEES, AND ACTIVITIES NECESSARY TO INSTALL, TEST, AND COMMISSION A FULLY FUNCTIONAL AND CODE COMPLIANT SUPPRESSION SYSTEM.

SUBMITTALS SHALL BE PREPARED AND FORWARDED TO THE ARCHITECT FOR REVIEW. SUCCESSFULLY COMPLETING THE SUBMITTAL AND REVIEW PROCESS OF FIRE ALARM SYSTEM PRODUCT DATA, SHOP DRAWINGS, CALCULATIONS, AS-BUILT DRAWINGS, AND TEST CERTIFICATES SHALL BE A PREREQUISITE TO ISSUING FINAL ENGINEER APPROVAL CERTIFICATION OF OCCUPANCY.

CONTRACTOR RESPONSIBILITY

THE CONTRACTOR SHALL REFER TO ARCHITECTURE DRAWINGS FOR ADDITIONAL INFORMATION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND VERIFYING FLOW TEST DATA IN THE PREPARATION OF HYDRAULIC CALCULATIONS. COORDINATE THE TIME AND DATE OF THE TEST WITH THE APPLICABLE WATER UTILITY OFFICIAL AND ARCHITECT AT LEAST FIVE (5) WORKING DAYS PRIOR TO CONDUCTING THE TEST.

CONTRACTOR RESPONSIBILITY (CONT)

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF THE FIRE PROTECTION SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES AND REQUIREMENTS, INCLUDING BUT NOT LIMITED TO APPLICABLE NFPA CODES AND STANDARDS, LOCAL AUTHORITIES HAVING JURISDICTION, OWNER'S PROPERTY INSURANCE CARRIER LOSS CONTROL STANDARDS AND GUIDELINES, AND OWNER-SPECIFIED DIRECTION.

THE CONTRACTOR SHALL OBTAIN APPROVALS FROM THE LOCAL AUTHORITY HAVING JURISDICTION, OWNER'S PROPERTY INSURANCE CARRIER AS APPLICABLE, AND THE PROJECT ARCHITECT PRIOR TO INSTALLATION. THE CONTRACTOR SHALL SUBMIT APPLICABLE SHOP DRAWINGS, CALCULATIONS, AND MANUFACTURER'S MATERIALS DATA SHEETS ONLY AFTER APPROVAL BY OTHER AUTHORITIES.

ONLY DRAWINGS APPROVED BY THE FIRE MARSHAL'S OFFICE SHALL BE USED FOR INSTALLATION.

FINAL PERMIT DRAWINGS SHALL BE PREPARED, STAMPED AND SIGNED BY A STATE OF ARKANSAS AUTOMATIC SPRINKLER DESIGN CERTIFICATE OF COMPETENCY (NICET 3) HOLDER.
PROVIDE ALL MAKES AND MODELS OF ALL DEVICES ON ALL SHOP DRAWINGS.

ALL EQUIPMENT AND MATERIALS FURNISHED BY THE CONTRACTOR, LABOR, AND TESTING PERFORMED HEREIN SHALL BE IN ACCORDANCE WITH THE APPLICABLE BUILDING AND FIRE CODE, INCLUDING LOCAL ORDINANCES AND AMENDMENTS, OWNER'S PROPERTY INSURANCE CARRIER LOSS CONTROL STANDARDS AND GUIDELINES, AND THE SPECIFICATION.

PERMITS, INSPECTIONS, CERTIFICATES, APPROVALS, AND LICENSES REQUIRED FOR THE WORK SHALL BE PROVIDED BY THE CONTRACTOR, INCLUDING ALL FEES AND EXPENSES INCURRED.

THE INSTALLATION OF FIRE PROTECTION SHALL PERMIT SAFE PERSONNEL ACCESSIBILITY FOR REQUIRED INSPECTION, TESTING, AND MAINTENANCE.

THE CONTRACTOR SHALL PROVIDE A WRITTEN GUARANTEE COVERING ALL WORKMANSHIP AND MATERIALS FOR AT LEAST ONE YEAR FOLLOWING THE DATE OF ACCEPTANCE.

COORDINATION OF WORK

THE CONTRACTOR SHALL COORDINATE ALL WORK AND WORK SCHEDULES WITH THAT OF OTHER TRADES AFFECTED BY THE ENTIRE SCOPE OF THE PROJECT, SO THAT ALL WORK MAY BE INSTALLED IN THE MOST DIRECT AND WORKMANLIKE MANNER.

THE ROUTING OF FIRE PROTECTION MAINS, BRANCH LINES, AND HEADS SHALL BE COORDINATED WITH OTHER TRADES AND THE BUILDING STRUCTURE PRIOR TO SUBMISSION
OF SHOP DRAWINGS.

WHERE CONFLICTS BETWEEN THESE CONCEPTUAL DRAWINGS AND THE SPECIFICATIONS OCCUR, THE SPECIFICATIONS SHALL APPLY.

INSTALLATION

LOCATE SPRINKLER HEADS IN CENTER OF LAY-IN TILE CEILING AND LOCATE SYMMETRICALLY IN ROOMS AND SPACES AS FAR AS PRACTICAL.

PROVIDE SPRINKLER HEADS AT TOP AND BOTTOM FLOORS OF ALL LARGE MECHANICAL CHASES (AS REQUIRED BY CODE).

SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF FIRE EXTINGUISHER CABINETS, ETC.

COORDINATE FIRE SPRINKLER ZONING WITH ELECTRICAL DRAWINGS AND FIRE ALARM SYSTEM.

ALL VALVES MUST BE ACCESSIBLE, IF INSTALLED ABOVE A FIXED CEILING, ACCESS DOORS SHALL BE INSTALLED.

ALL SPRINKLER BRANCHES DOWNSTREAM OF AN ALARM SHALL HAVE A 1" MINIMUM TEST DRAIN LINE WITH EASILY ACCESSIBLE VALVE. DISCHARGE DRAIN TO AN APPROPRIATE LOCATION, THRU OUTSIDE WALL IF POSSIBLE, OR TO A LARGE FLOOR DRAIN IN A MECHANICAL ROOM, ETC.

ALL SPRINKLER PIPING SHALL SLOPE TO LOW POINTS WITH VALVES FOR DRAIINING.

ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE, EXCEPT IN SPECIAL AREAS.

SPRINKLER HEADS SHALL BE LOCATED 15' (OR LESS) ON CENTER - EXTENDED COVERAGE HEADS NOT ACCEPTABLE.

INTERFACE SYSTEM WITH BUILDING FIRE AND SMOKE ALARM SYSTEM.

ALL PIPING TO BE SCHEDULE 40 STEEL.

ALL EXPOSED SPRINKLER PIPING SHALL BE PAINTED - CLEAN, PRIME, AND PAINT WITH (2) COATS EPOXY PAINT (COLOR AS SELECTED BY ARCHITECT) FIRE CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR.

ALL SPRINKLER HEADS IN LAY-IN CEILING SHALL HAVE FLEXIBLE DROPS TO COMPLY WITH SEISMIC DESIGN CATEGORY (VERIFY).

FIRE SPRINKLER DESIGN NOTES

ESTIMATED AREA/DENSITY DEMANDS PLUS HOSE WATER

LIGHT HAZARD - .10 GPM x 1500 SQ. FT. x OVERAGE + 100 GPM HOSE WATER = 272.5 GPM.

ORDINARY HAZARD (GROUP 1) - 0.15 GPM x 1500 SQ. FT. x OVERAGE + 250 GPM HOSE WATER = 509.0 GPM.

ORDINARY HAZARD (GROUP 2) - 0.25 GPM x 1500 SQ. FT. x OVERAGE + 250 GPM HOSEWATER = 595.0 GPM.

NOTE: REDUCTION AREA ADJUSTMENTS FOR QUICK RESPONSE SPRINKLER HEADS AS NOTED IN NFPA 13 WILL BE ALLOWED.

THE CONTRACTOR MUST VERIFY AND COORDINATE EXACT DESIGN REQUIREMENTS.

FIRE FLOW TEST - VERIFY IF REQUIRED - CONNECTING TO AN EXISTING FIRE SPRINKLER SYSTEM

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 11043 MARCUS D. CATES 12/4/25

CORPORATE REGISTRATION PETTIT & PETTIT CONSULTING ENGINEERS, INC. No. 78 ARKANSAS ENGINEER

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FIRE PROTECTION GENERAL NOTES AND LEGENDS

NO.	DATE	DESCRIPTION

25-043

6-9-26

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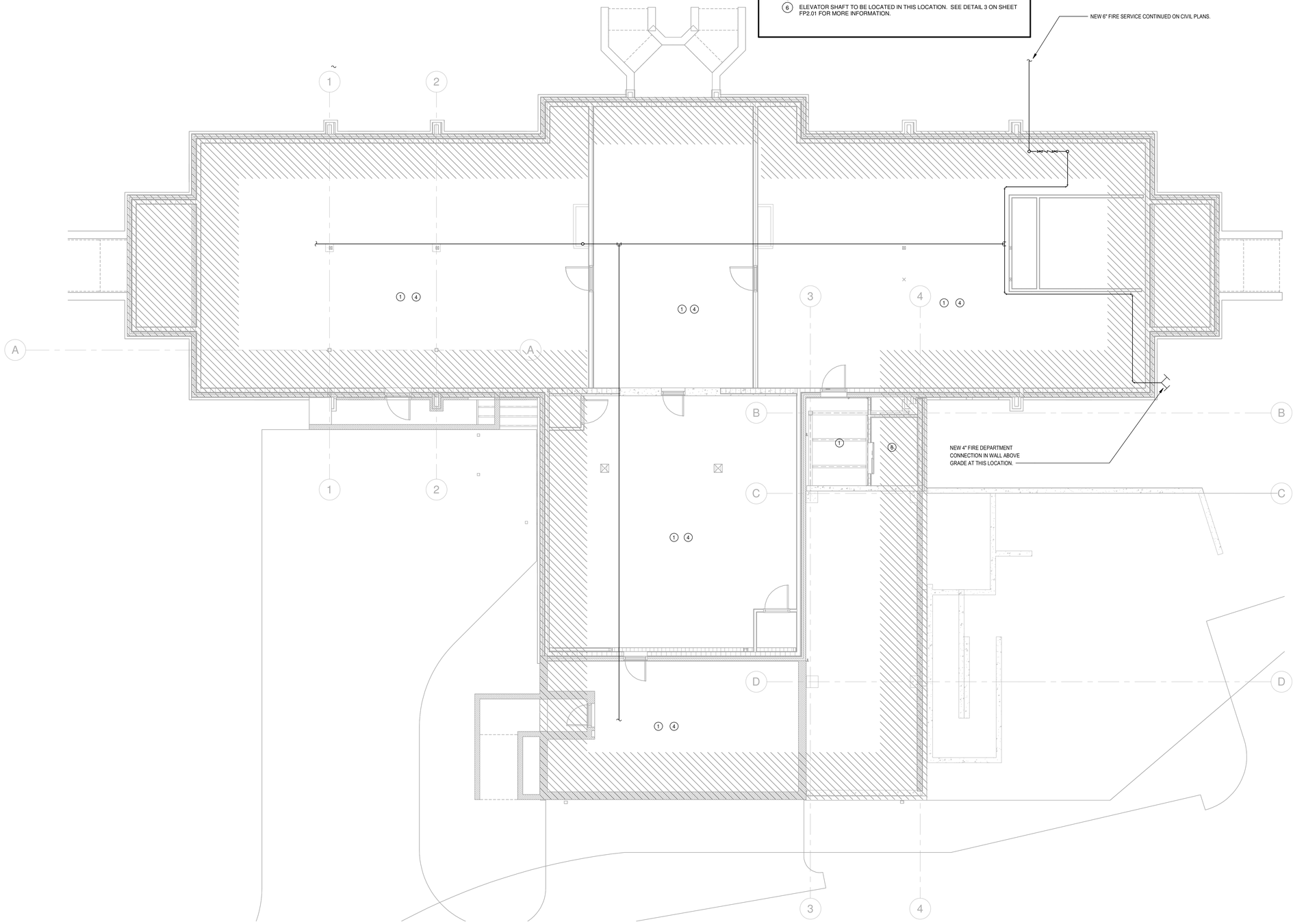
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FIRE PROTECTION KEYED NOTES

1. THESE DESIGNATED AREAS SHALL BE PROVIDED WITH AN AUTOMATIC FIRE SPRINKLER SYSTEM OF STANDARD WET TYPE. SEE GENERAL FIRE PROTECTION NOTES AND OTHER KEYED NOTES FOR SPECIAL AREA REQUIREMENTS.
2. PROVIDE SPRINKLER HEADS AT TOP AND BOTTOM FLOORS OF ALL LARGE MECHANICAL CHASES (AS REQUIRED BY CODE)
3. PROVIDE EXTENDED COVERAGE SIDEWALL SPRINKLER HEADS IN ORDER TO PROTECT THIS AREA.
4. IN MECHANICAL AND ELECTRICAL ROOMS (ESPECIALLY ROOMS WITHOUT CEILINGS) COORDINATE CAREFULLY THE EXACT LOCATIONS OF HEADS. REVIEW MECHANICAL AND ELECTRICAL DRAWINGS TO ENSURE THAT HEADS ARE NOT INSTALLED DIRECTLY ABOVE DUCTWORK, EQUIPMENT, ETC.
5. PROVIDE SIDEWALL SPRINKLER HEADS AT OPEN STAIR (AS REQUIRED BY CODE)
6. ELEVATOR SHAFT TO BE LOCATED IN THIS LOCATION. SEE DETAIL 3 ON SHEET FP2.01 FOR MORE INFORMATION.



1 BASEMENT PLAN - FIRE PROTECTION
3/16" = 1'-0"

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.11043 MARCUS D. CASTLE 12/16/25

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BASEMENT PLAN - FIRE PROTECTION

NO.	DATE	DESCRIPTION

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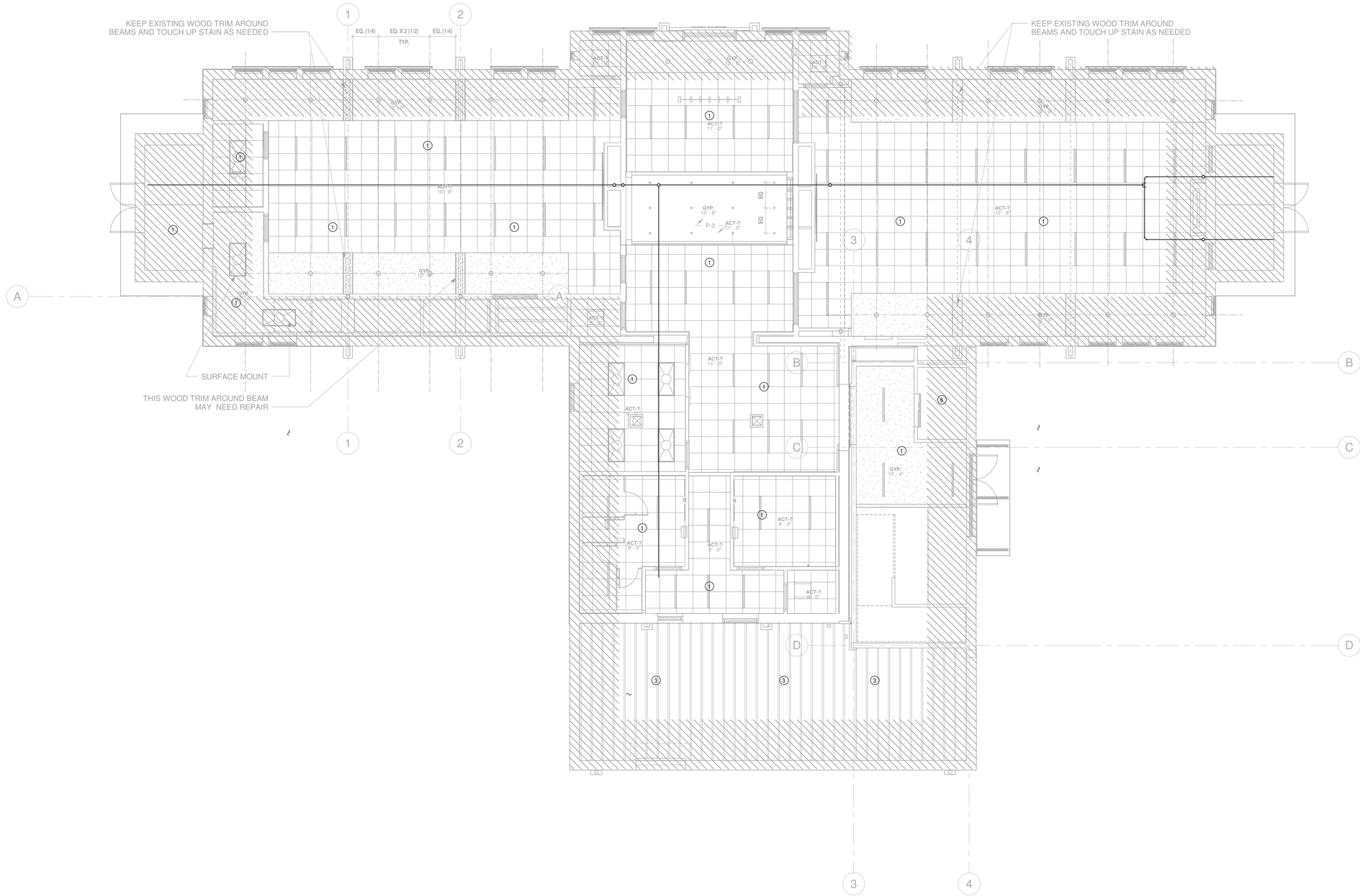
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FIRE PROTECTION KEYED NOTES

1. THESE DESIGNATED AREAS SHALL BE PROVIDED WITH AN AUTOMATIC FIRE SPRINKLER SYSTEM OF STANDARD WET TYPE. SEE GENERAL FIRE PROTECTION NOTES AND OTHER KEYED NOTES FOR SPECIAL AREA REQUIREMENTS.
2. PROVIDE SPRINKLER HEADS AT TOP AND BOTTOM FLOORS OF ALL LARGE MECHANICAL CHASES (AS REQUIRED BY CODE)
3. PROVIDE EXTENDED COVERAGE SIDEWALL SPRINKLER HEADS IN ORDER TO PROTECT THIS AREA.
4. IN MECHANICAL AND ELECTRICAL ROOMS (ESPECIALLY ROOMS WITHOUT CEILINGS) COORDINATE CAREFULLY THE EXACT LOCATIONS OF HEADS. REVIEW MECHANICAL AND ELECTRICAL DRAWINGS TO ENSURE THAT HEADS ARE NOT INSTALLED DIRECTLY ABOVE DUCTWORK, EQUIPMENT, ETC.
5. PROVIDE SIDEWALL SPRINKLER HEADS AT OPEN STAIR (AS REQUIRED BY CODE)
6. ELEVATOR SHAFT TO BE LOCATED IN THIS LOCATION. SEE DETAIL 3 ON SHEET FP2.01 FOR MORE INFORMATION.



1 **FIRST FLOOR PLAN - FIRE PROTECTION**
3/16" = 1'-0"

STATE OF ARKANSAS
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FIRST FLOOR PLAN - FIRE PROTECTION

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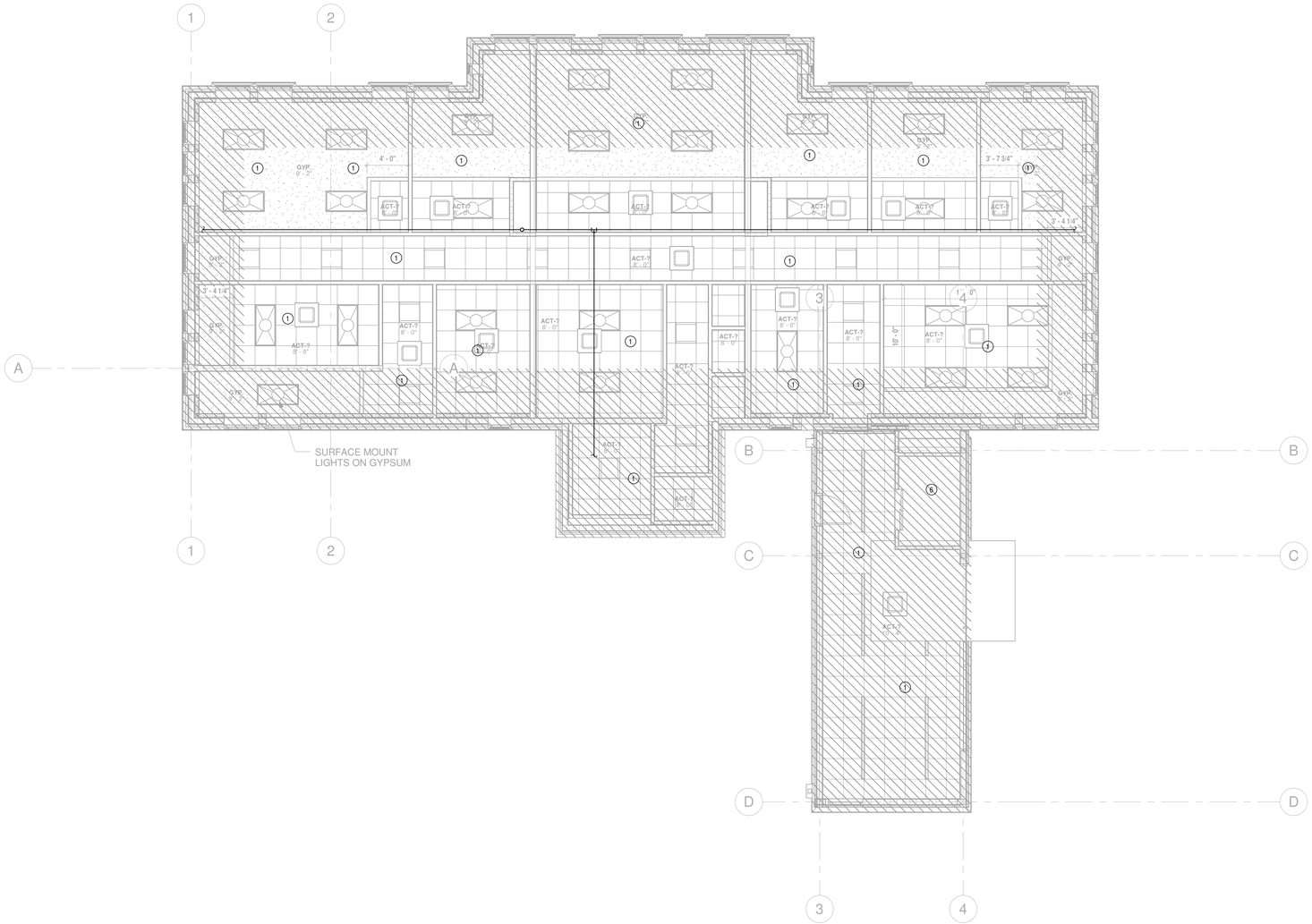
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FIRE PROTECTION KEYED NOTES

1. THESE DESIGNATED AREAS SHALL BE PROVIDED WITH AN AUTOMATIC FIRE SPRINKLER SYSTEM OF STANDARD WET TYPE. SEE GENERAL FIRE PROTECTION NOTES AND OTHER KEYED NOTES FOR SPECIAL AREA REQUIREMENTS.
2. PROVIDE SPRINKLER HEADS AT TOP AND BOTTOM FLOORS OF ALL LARGE MECHANICAL CHASES (AS REQUIRED BY CODE)
3. PROVIDE EXTENDED COVERAGE SIDEWALL SPRINKLER HEADS IN ORDER TO PROTECT THIS AREA.
4. IN MECHANICAL AND ELECTRICAL ROOMS (ESPECIALLY ROOMS WITHOUT CEILINGS) COORDINATE CAREFULLY THE EXACT LOCATIONS OF HEADS. REVIEW MECHANICAL AND ELECTRICAL DRAWINGS TO ENSURE THAT HEADS ARE NOT INSTALLED DIRECTLY ABOVE DUCTWORK, EQUIPMENT, ETC.
5. PROVIDE SIDEWALL SPRINKLER HEADS AT OPEN STAIR (AS REQUIRED BY CODE)
6. ELEVATOR SHAFT TO BE LOCATED IN THIS LOCATION. SEE DETAIL 3 ON SHEET FP2.01 FOR MORE INFORMATION.



1 **SECOND FLOOR PLAN - FIRE PROTECTION**
3/16" = 1'-0"

STATE OF ARKANSAS
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SECOND FLOOR PLAN - FIRE PROTECTION

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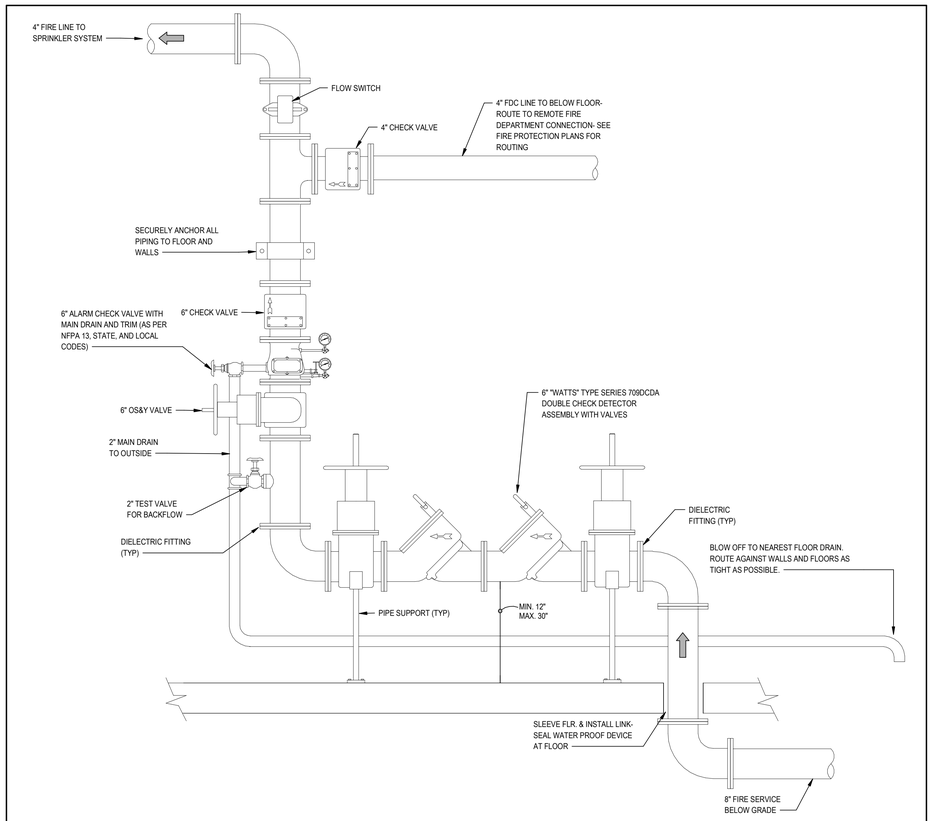
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1 DOUBLE CHECK DECTECTOR ASSEMBLY DETAIL
SCALE: NONE

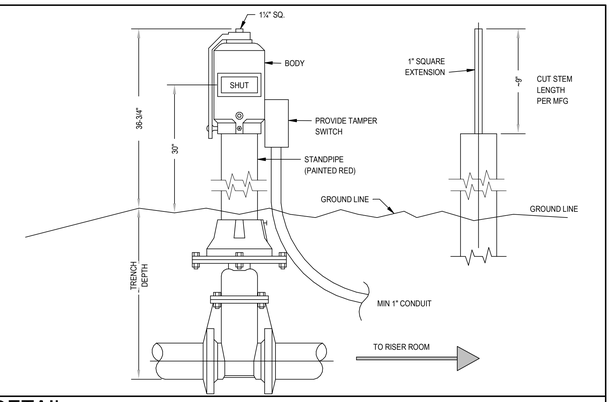
POST INDICATOR VALVE (PIV) NOTES:

1. CUT AND ADJUST THE LENGTH OF THE EXTENSION SO THAT THE CAP IS APPROPRIATELY LOCATED ABOVE FINISHED GRADE. FOLLOW MFG CRITERIA.

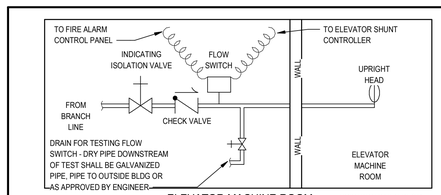
2. SET THE "OPEN" AND "SHUT" TARGETS FOR THE APPROPRIATE VALVE SIZE.

3. PIV SHALL BE INSTALLED WITH AN ELECTRONICALLY CONTROLLED TAMPER SWITCH. INSTALL MINIMUM 1" CPVC CONDUIT TO RISER ROOM WITH PULL STRING.

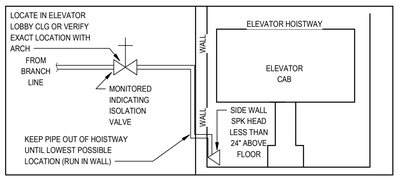
4. POST INDICATOR VALVE SHALL BE LOCATED AT A MINIMUM 40 FEET FROM BUILDING UNLESS APPROVED OTHERWISE BY LOCAL AHJ.



2 POST INDICATOR VALVE DETAIL
SCALE: NONE



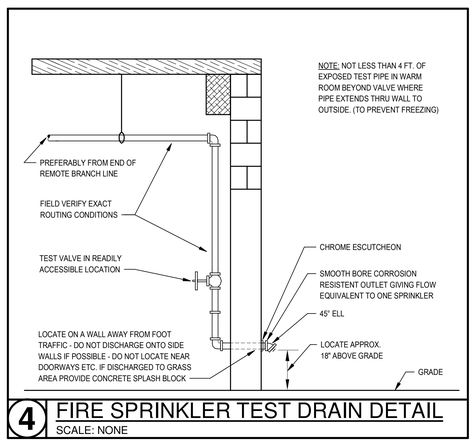
ELEVATOR MACHINE ROOM (HOISTWAY WHEN REQ'D)



ELEVATOR PIT

3 ELEVATOR AND MACHINE ROOM SPRINKLER DETAILS
SCALE: NONE

NOTE: ALL WORK SHALL COMPLY WITH ARKANSAS DEPT OF LABOR, INSPECTOR ELEVATOR SAFETY DIVISION AND NFPA, STATE AND LOCAL FIRE CODES



4 FIRE SPRINKLER TEST DRAIN DETAIL
SCALE: NONE

STATE OF ARKANSAS
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MARCUS D. CATHEY
12/1/25
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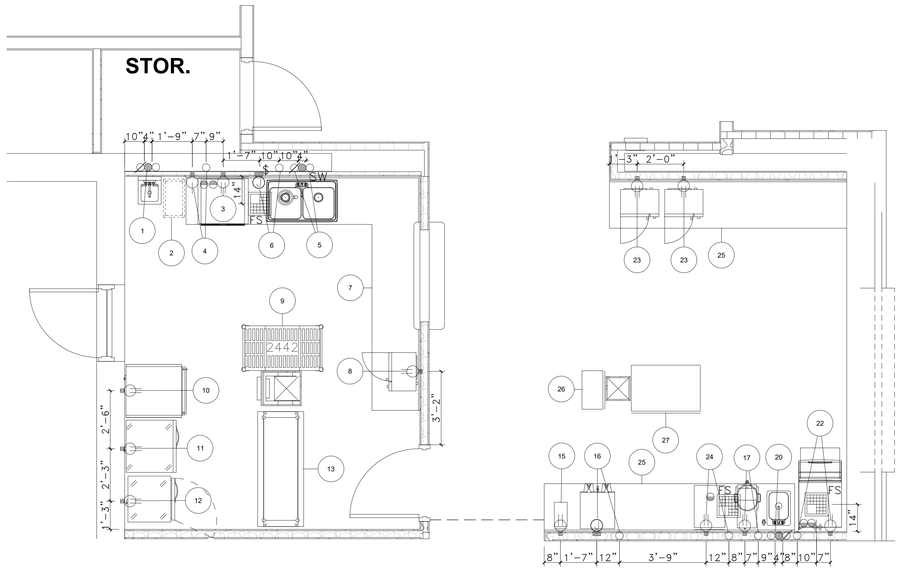
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FIRE PROTECTION DETAILS

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KITCHEN EQUIPMENT PLUMBING GENERAL NOTES

01 MC TO PROVIDE FINAL CONNECTIONS TO ALL KITCHEN EQUIPMENT ITEMS PER LOCAL, STATE, & NATIONAL PLUMBING CODES
02 MC TO VERIFY REQUIREMENTS OF ALL KITCHEN EQUIPMENT ITEMS PROVIDED BY OTHERS AND/OR EXISTING BEFORE ROUGHING IN AND MAKING FINAL CONNECTIONS
03 MC TO FURNISH & INSTALL ALL SHUTOFF VALVES, SHOCK ABSORBERS, SNAP ACTION VALVES, TRIM, TRAPS, ETC REQUIRED FOR FINAL CONNECTION TO OUTLETS
04 MC TO FURNISH, INSTALL & CONNECT ALL WATER, DRAIN, INDIRECT DRAIN LINES, ETC FOR ALL KITCHEN EQUIPMENT ITEMS
05 MC TO FLUSH ALL LINES BEFORE MAKING FINAL CONNECTIONS
06 SEE ARCHITECT DRAWINGS FOR CONTINUATION OF PLUMBING OUTLETS
07 ROUGH IN REQUIREMENTS FOR OTHER ITEMS ARE TO BE SET FORTH BY OTHERS THIS PLAN COVERS ONLY KITCHEN EQUIPMENT ITEMS
08 ALL ROUGH IN MATERIAL SHALL BE RUN UNEXPOSED
09 DO NOT CONNECT DISPOSERS TO GREASE TRAP
10 MC TO INSTALL ALL HAND SINKS & MOP SINKS

KITCHEN PLUMBING LEGEND

○ – CW – COLD WATER
⌀ – HW – HOT WATER
– DR – DRAIN
◑ – ID – INDIRECT DRAIN,MC EXTEND TO FD OR FS
⊗ – GAS
⦻ – FD – FLOOR DRAIN
◎ – FFD – FUNNEL FLOOR DRAIN
▦ – FS – 12" SQ FLOOR SINK W.GRATE TOP
KEC – KITCHEN EQUIPMENT CONTRACTOR
MC – MECHANICAL CONTRACTOR
AFF – ABOVE FINISHED FLOOR
BTU – BRITISH THERMAL UNIT
SW – STUB OUT OF WALL
SF – STUB UP OUT OF FLOOR
DFA – DROP FROM ABOVE

KITCHEN EQUIPMENT ELECTRICAL GENERAL NOTES

01 EC TO PROVIDE FINAL CONNECTIONS TO ALL KITCHEN EQUIPMENT ITEMS PER LOCAL, STATE AND NATIONAL ELECTRICAL AND BUILDING CODES
02 EC TO VERIFY REQUIREMENTS OF ALL KITCHEN EQUIPMENT ITEMS PROVIDED BY OTHERS AND/OR EXISTING BEFORE ROUGHING IN AND MAKING FINAL CONNECTIONS
03 EC TO SIZE ALL CONDUIT, JUNCTION BOXES, PULL BOXES, AND DISCONNECT SWITCHES PER LOCAL, STATE AND NATIONAL ELECTRICAL AND BUILDING CODES
04 EC TO FURNISH AND INSTALL ALL MAGNETIC STARTERS, THERMAL OVERLOAD PROTECTION AND DISCONNECT SWITCHES ON ALL MOTORS AND ELEMENTS PER LOCAL, STATE AND NATIONAL ELECTRICAL AND BUILDING CODES
05 EC TO WIRE, FURNISH AND INSTALL CONDUIT TO RECEPTACLE JUNCTION BOX AND/OR DISCONNECT SWITCH PRE MOUNTED ON KITCHEN EQUIPMENT
06 EC TO FURNISH AND INSTALL ALL CORDS AND PLUGS NOT SUPPLIED WITH KITCHEN EQUIPMENT, CORDS NOT TO TOUCH THE FLOOR
07 EC TO INTER CONNECT ALL FIELD AND CONTROL WIRING
08 SEE ARCHITECTURAL DRAWINGS FOR CONTINUATION ELECTRICAL OF OUTLETS
09 ALL WIRING, CONDUIT, JUNCTION BOXES, RECEPTACLES AND DISCONNECT SWITCHES IN DISH WASHING AREA AND/OR INSIDE WALK-IN COOLER/FREEZER TO BE WATER PROOF
10 ROUGH IN REQUIREMENTS FOR OTHER ITEMS ARE TO BE SET FORTH BY OTHERS, THIS PLAN COVERS ONLY KITCHEN EQUIPMENT
11 ALL ROUGH IN MATERIAL SHALL BE RUN UNEXPOSED
12 LOADS SHOWN ARE KITCHEN EQUIPMENT LOADS ONLY
13 KEC SHALL MAKE ALL JUNCTION BOXES EASILY ACCESSIBLE WITHOUT MOVING KITCHEN EQUIPMENT AND SHALL CUT OPENINGS AND PROVIDE A REMOVABLE STAINLESS STEEL COVER IN THE EQUIPMENT IF REQUIRED
14 KEC TO PROVIDE ALL CUTOUTS IN THE KITCHEN EQUIPMENT FOR CORDS AND/OR CONDUIT AND FURNISH RUBBER GROMMETS AS REQUIRED
15 EC TO FURNISH AND INSTALL SHUNT TRIP BREAKERS REQUIRED FOR THE SHUTOFF OF POWER TO COOKING EQUIPMENT AND INNER WIRE WITH THE FIRE CONTROL SYSTEM
16 EC TO INNER CONNECT FIRE CONTROL SYSTEM WITH BUILDING ALARM SYSTEM
17 EC TO FURNISH AND INSTALL ALL CONTROL WIRING FOR DISHWASHERS, DISPOSERS, ETC

KITCHEN ELECTRICAL LEGEND

⇒ – DO – DUPLEX OUTLET
⇒ – SO – SINGLE PURPOSE OUTLET
(J) – JB – JUNCTION BOX
◯ – JB – EMPTY JUNCTION BOX
(D) – DC – DROP CORD
◉ – CS – CONDUIT STUB UP OR OUT
◎ – FR – FLUSH FLOOR OUTLET
▭ – DS – DISCONNECT BOX
⊕ – LIGHT
$ – SWITCH
KEC – KITCHEN EQUIPMENT CONTRACTOR
EC – ELECTRICAL CONTRACTOR
AFF – ABOVE FINISHED FLOOR
CO – CONVENIENCE OUTLET – 20 AMP
DFA – DROP FROM ABOVE
SF – STUB UP OUT OF FLOOR
SW – STUB IN WALL
A – AMPS
W – WATTS
HP – HORSE POWER
PRP – PRESSURE RELIEF PORT
SV – SOLENOID VALVE

UTILITY SCHEDULE

			ELECTRICAL									PLUMBING						
Item	Qty.	Category	Voltage	Phase	Amps	Cycle	Hp	Kw	ConnectionType	NEMA	Electrical Connection Height	CW	HW	Water Conn. Height	ID	DW	DW Conn. Height	Equipment Remarks
1	1	Hand Sink										1/2"	1/2"	16"		1-1/2"	14"	
2	1	Trash Receptacle, Indoor																
3	1	Electric Convection Oven	120	1	14.0	60		1.7	Cord & Plug	5-15P	48"							WALL MOUNTED
4	1	Dishwasher, Undercounter	120	1	17.5	60			Cord & Plug	5-20P	25"		3/4"	10"	3/4"			ID TO FS
5	1	Two Comp. Sink										1/2"	1/2"	16"	2"			ID TO FS
6	1	Disposer	115	1	5.8	60	1/2		Direct		25"	1/2"	1/2"	12"		1-1/2"	8-1/2"	DW TO PREVENT STANDING
		Disposer accessories																WATER IN MOTOR HOUSING
7	1	Counter with 4" back splash																
8	1	Microwave Oven	120	1	13	60		1.5	Cord & Plug	5-15P	48"							
9	1	Plastic Shelving Unit																
10	1	Mobile Heated Cabinet	120	1	12.0	60		1.44	Cord & Plug	5-15P	48"							
11	1	Reach-In Refrigerator	115	1	3	60	1/4		Cord & Plug	5-15P	48"							
12	1	Reach-In Freezer	115	1	5	60	1/2		Cord & Plug	5-15P	48"							
13	1	60" Stainless Work Table																
13a	1	Overshelf																TABLE MOUNTED
14		Spare Number																
15	1	Coffee Dispenser	120	1	1	60		.1	Cord & Plug	5-15P	48"							
16	1	Coffee Brewer	120/240	1	29.0	60		6.89	Cord & Plug		48"	1/4"		48"				EC TO PROVIDE CORD & PLUG
17	1	Iced Tea Brewer	120	1	14.4	60		1.73	Cord & Plug	5-15P	48"	1/4"		48"				
18		Spare Number																
19		Spare Number																
20	1	Drop-In Sink										1/2"	1/2"	16"		1-1/2"	14"	
21		Spare Number																
22	1	Ice Maker, Cube-Style	120	1	6.9	60			Cord & Plug	5-15P	48"	1/2"		60"	3/4"			EC TO PROVIDE ORD & PLUG
	1	Ice Bin													3/4"			ID TO FS
23	2	Microwave Oven	120	1	13	60		1.5	Cord & Plug	5-15P	48"							
24	1	Ice Dispenser	115	1	1.0	60			Cord & Plug	5-15P	48"	1/2"		48"	3/4"			
25	2	Millwork Cabinets																SUPPLIED BY MILLWORKS
26	1	Trash Receptacle																
27	1	Millwork Cabinet																SUPPLIED BY MILLWORKS

1 FOODSERVICE EQUIPMENT PLAN
3/8" = 1'-0"

REGISTERED ARCHITECTS WITTENBERG DELONG & DANIELS ARKANSAS 6/19/26

INNOVATIVE KITCHEN CONSULTING & DESIGN

REVISION	REMARKS	BY	DATE

PROJECT NAME & ADDRESS:
BYRNE HALL
DIOCESE OF LITTLE ROCK

LITTLE ROCK AR.

KREBS BROTHERS RESTAURANT SUPPLY

SHEET NAME:
FOODSERVICE EQUIPMENT PLAN

DRAWN:	ALAN C.	CHECKED:	WALLY G.
DATE:	4/30/26	ARCH:	AQ
SCALE:	3/8" = 1'-0"		

SHEET NUMBER
QF-1